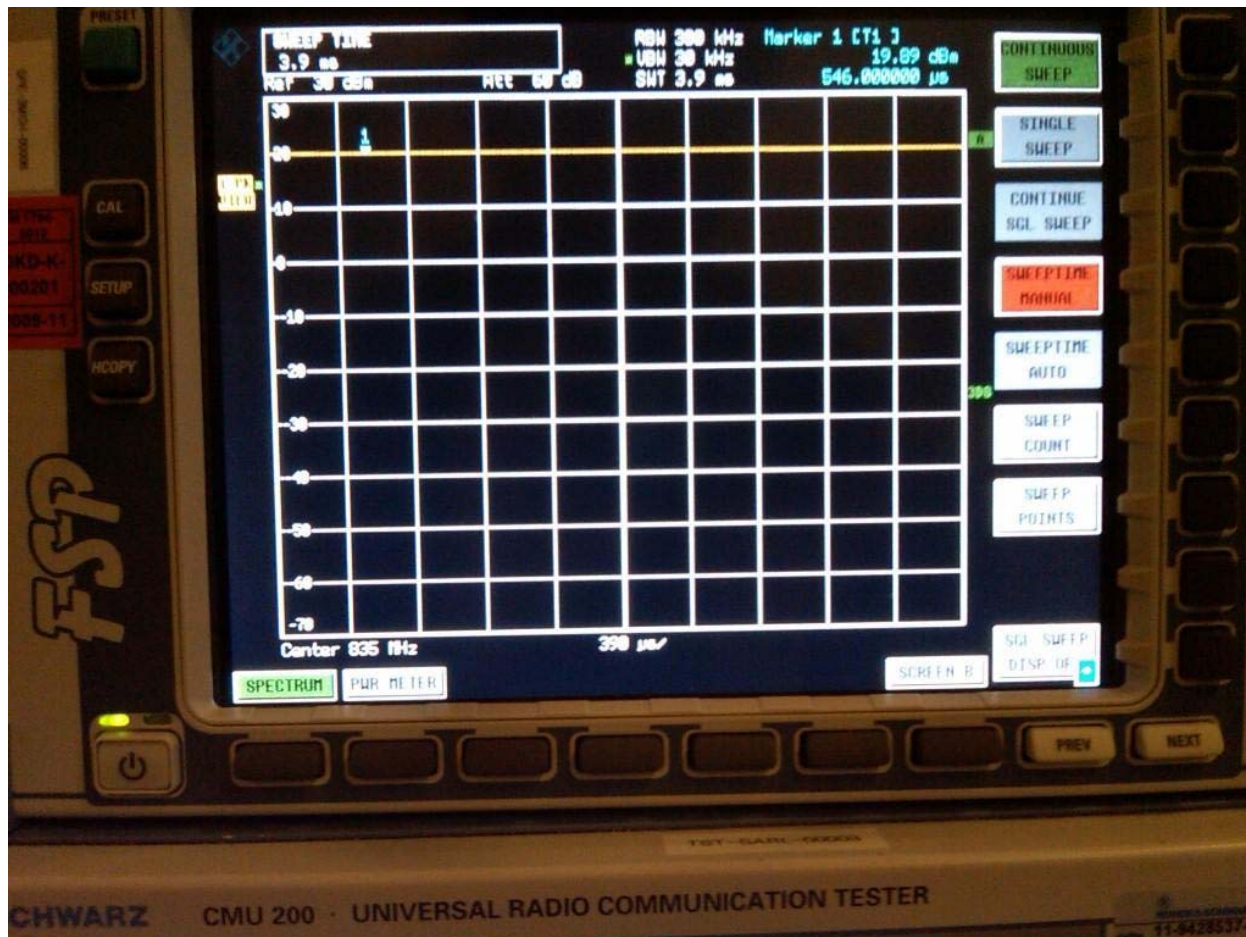

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 1 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

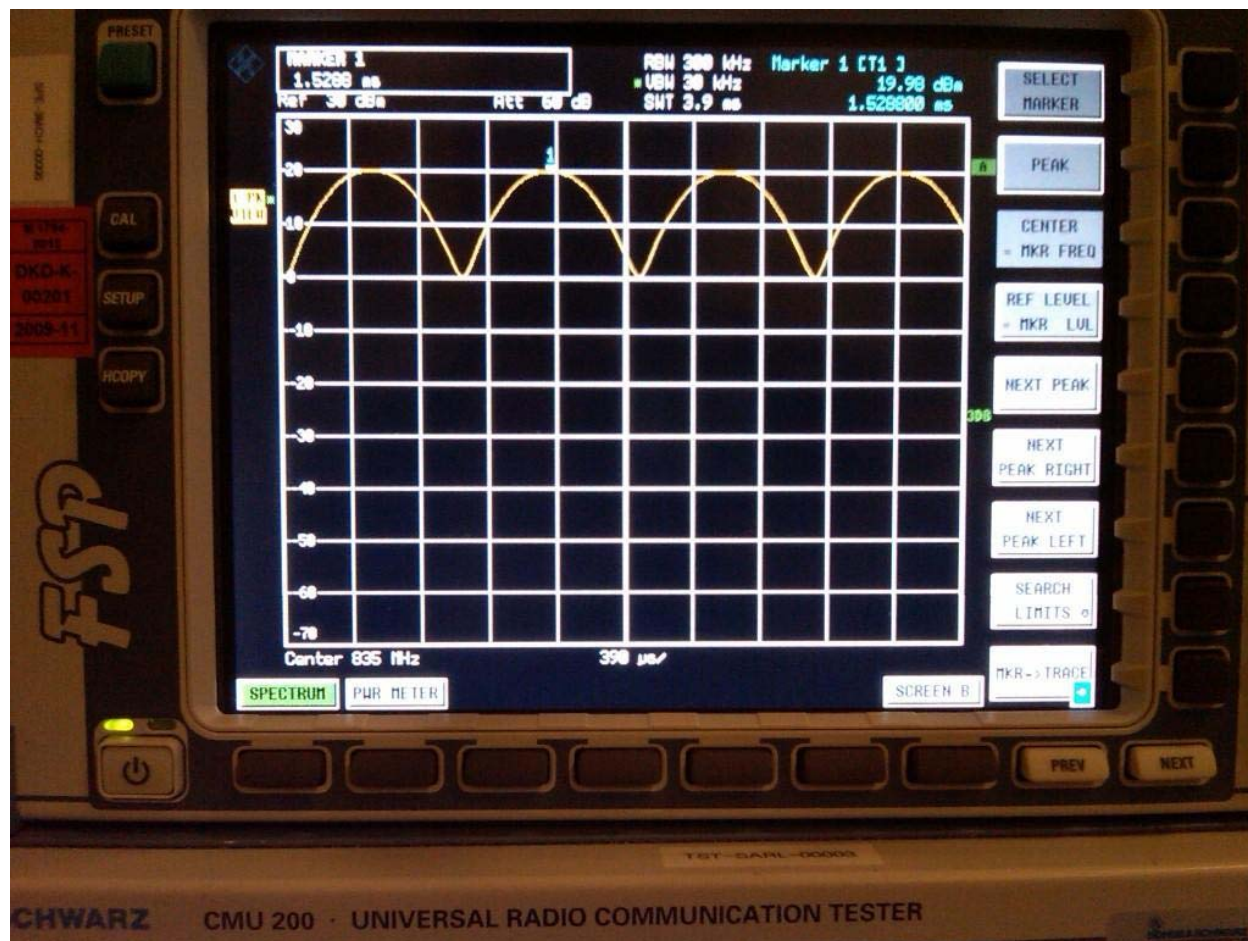
Annex A: Measurement data and plots

A.1 Spectrum analyser plots: CW, 80%AM, GSM and WCDMA signals




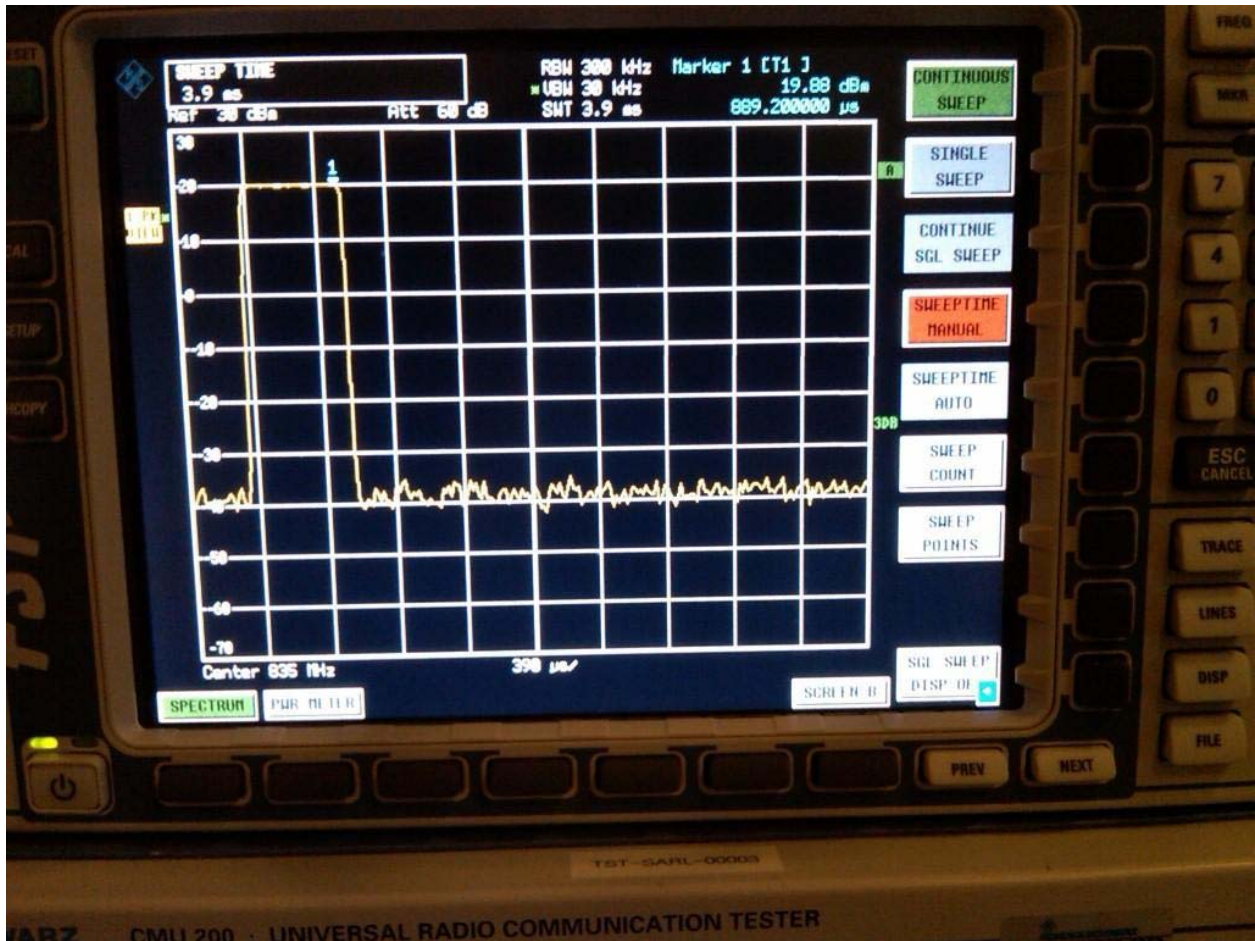
0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 2 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




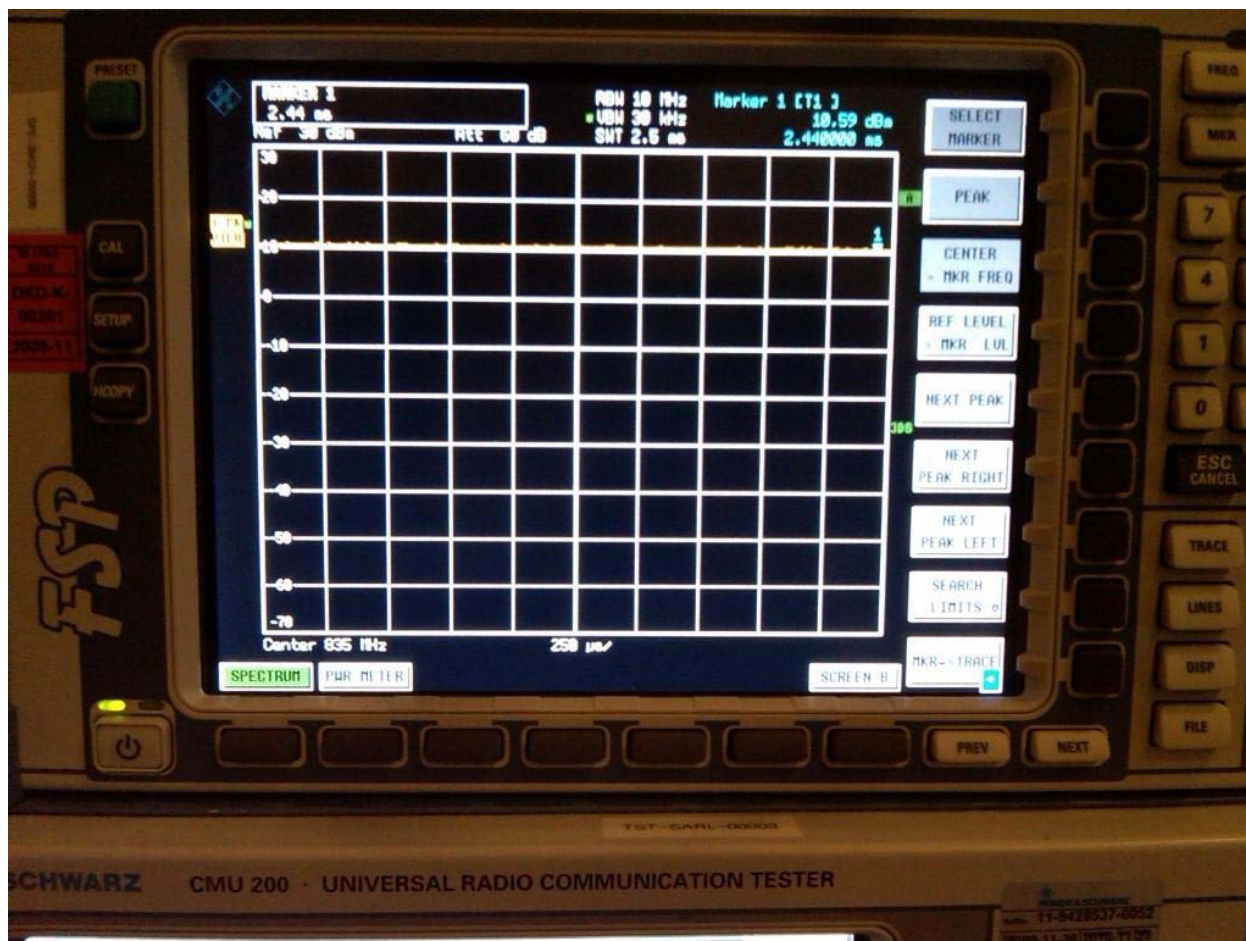
0 Hz Span 80% AM Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 3 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




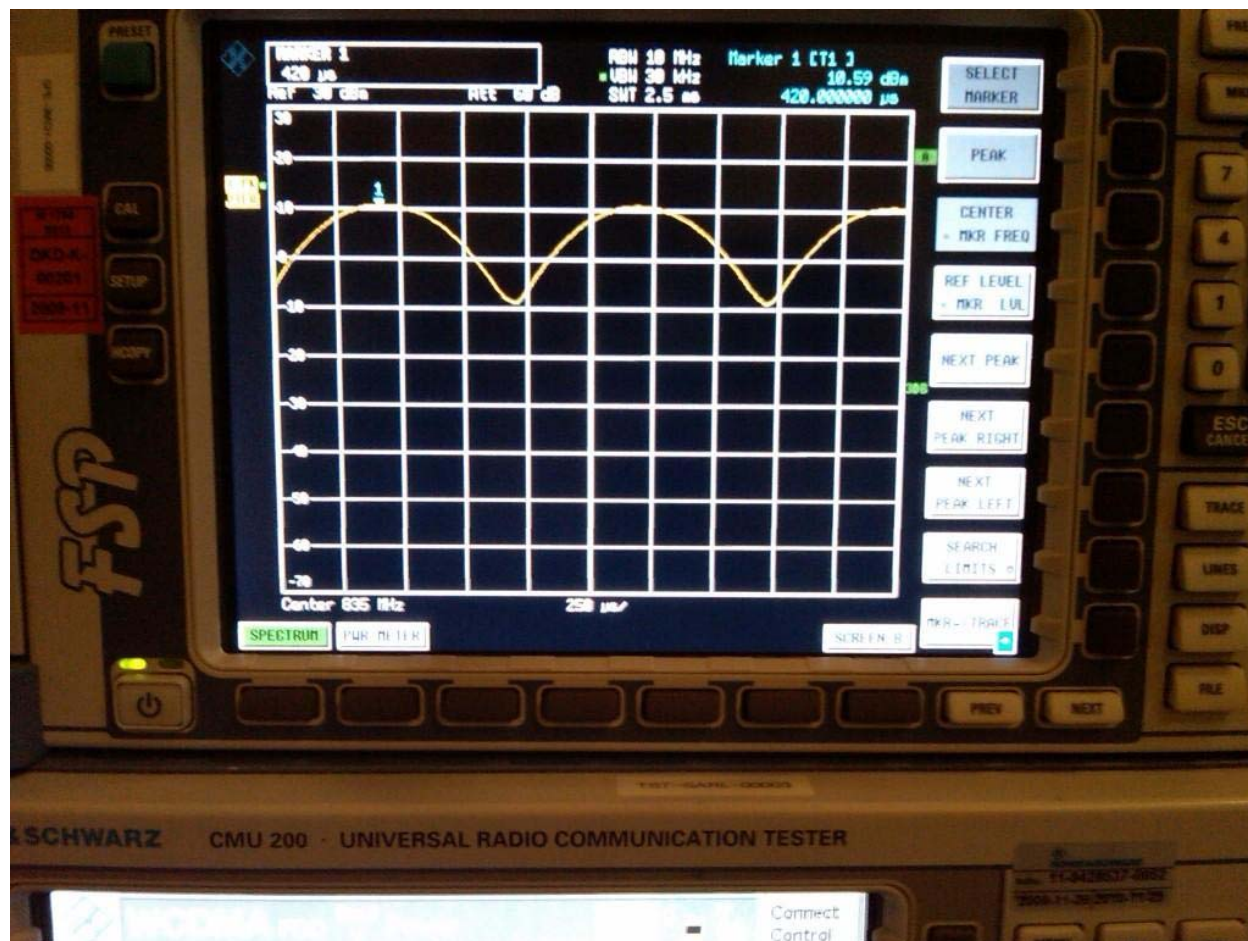
0 Hz Span GSM (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 4 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




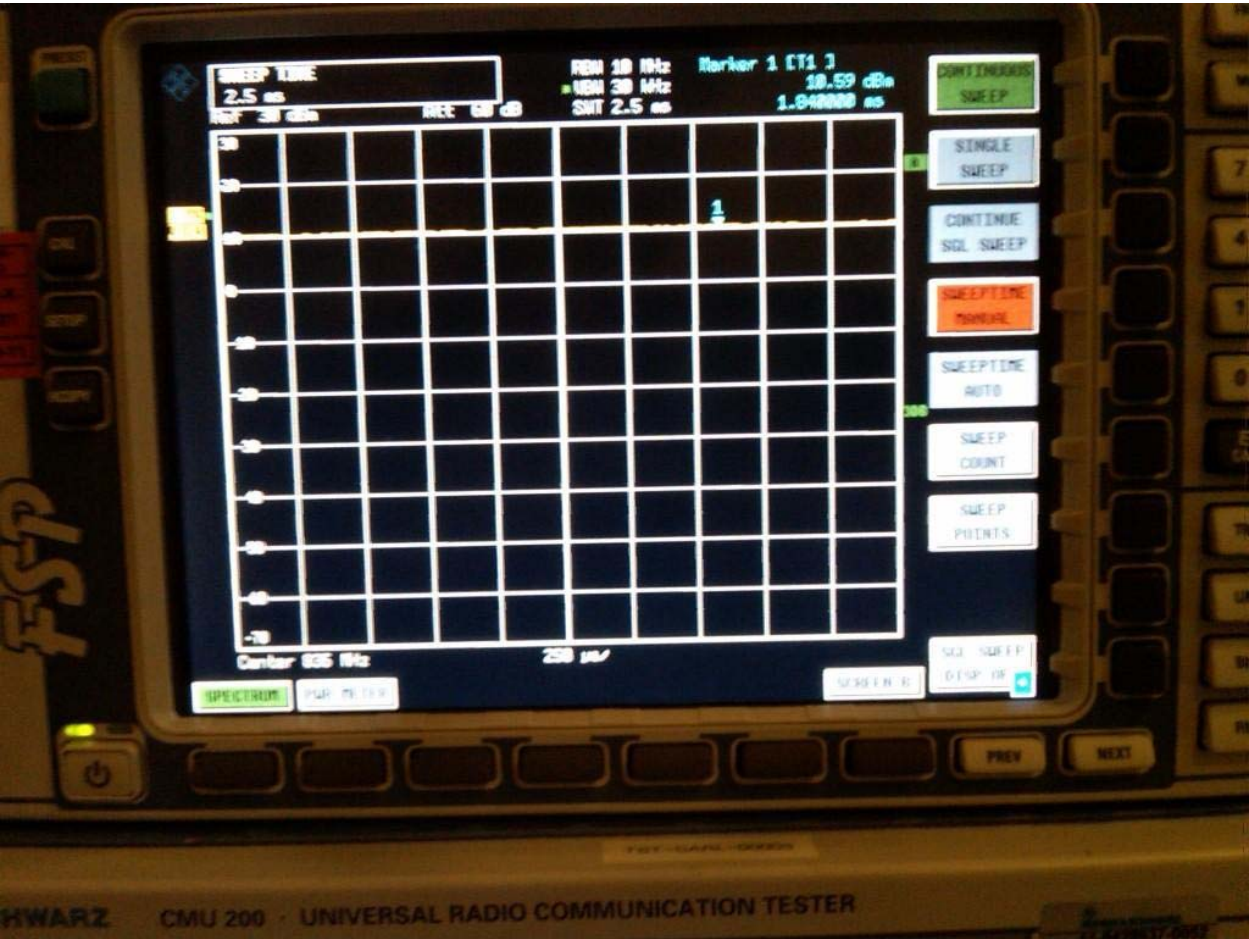
0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 5 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




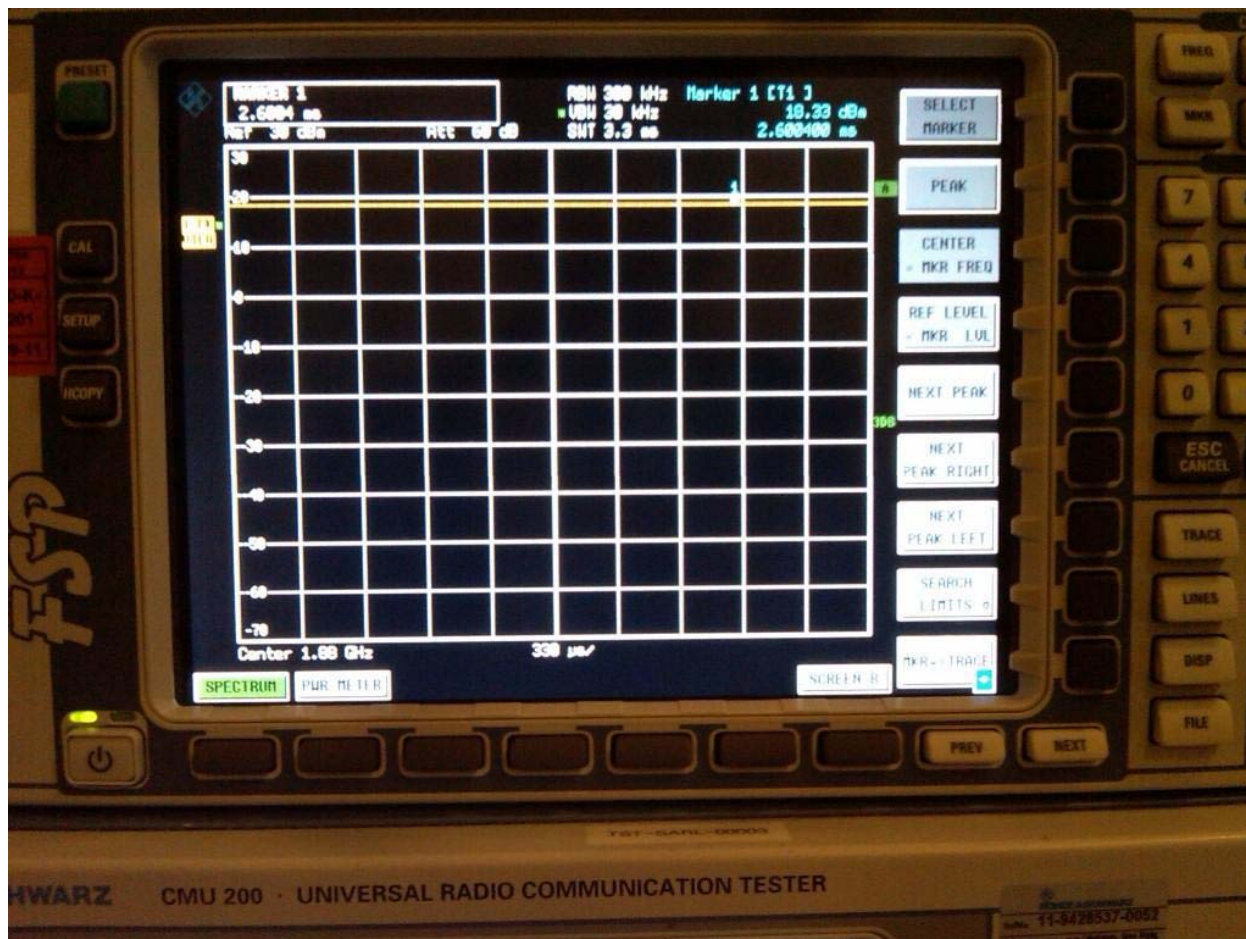
0 Hz Span 80% AM Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 6 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




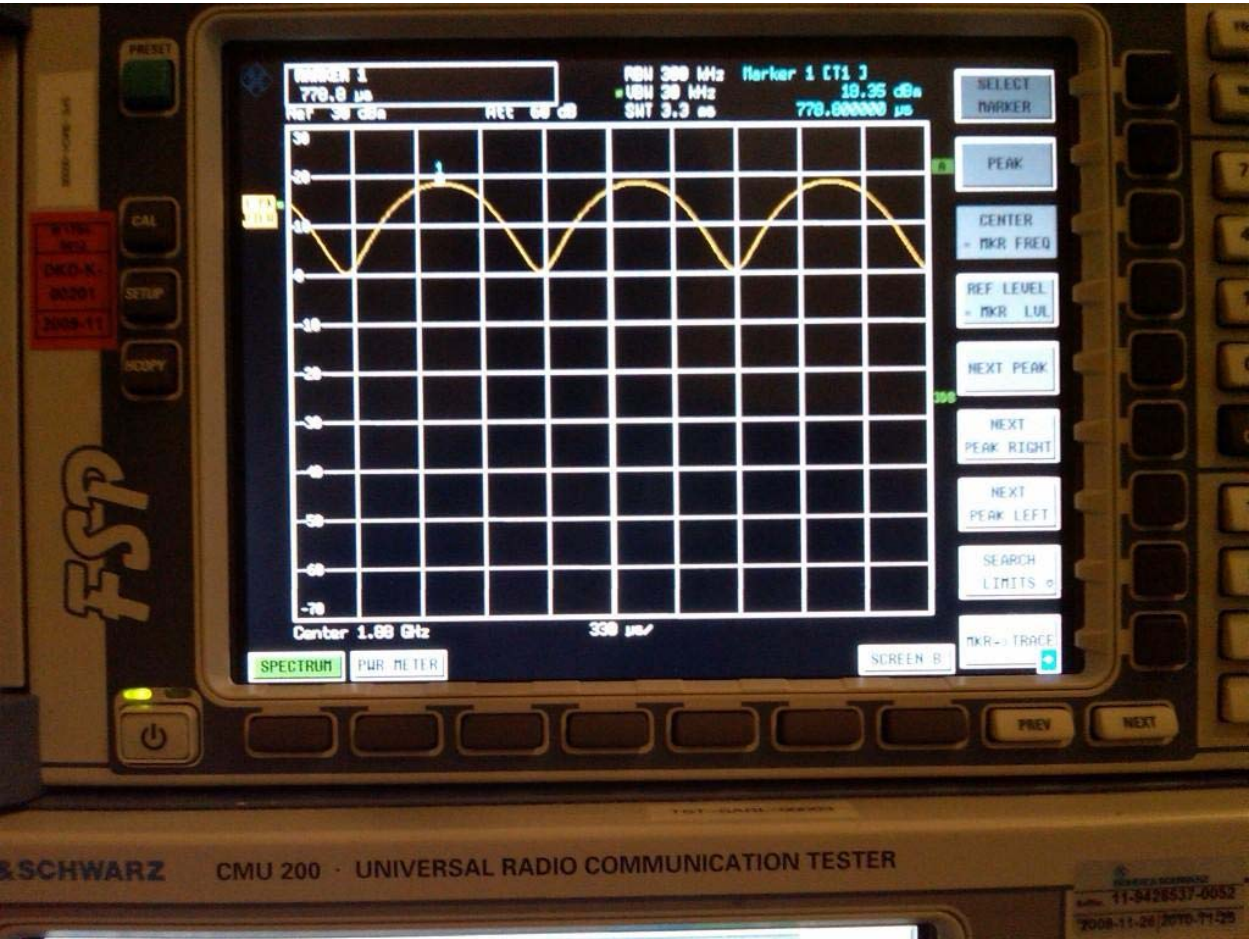
0 Hz Span WCDMA (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 7 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




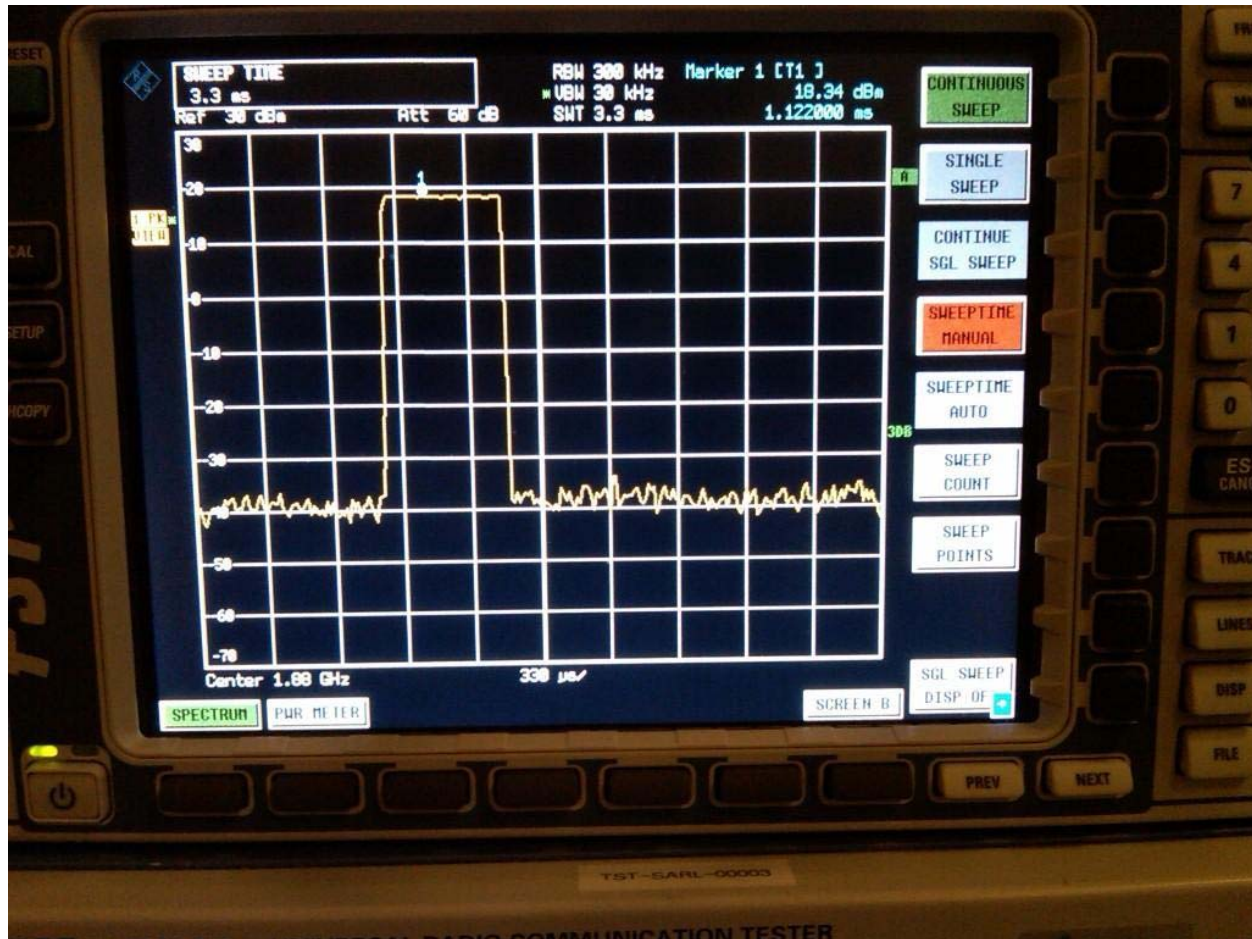
0 Hz Span CW Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 8 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




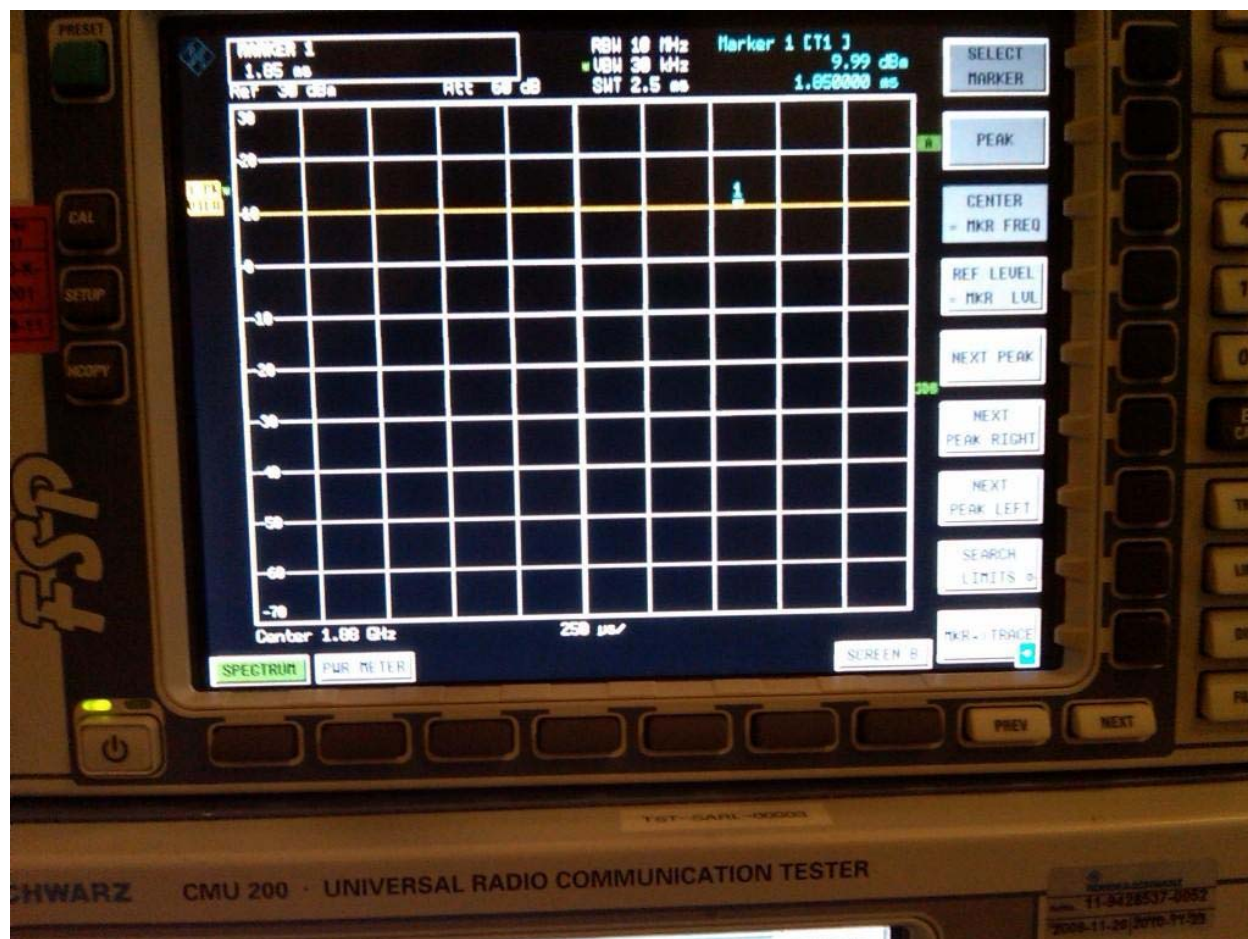
0 Hz Span 80% AM Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 9 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




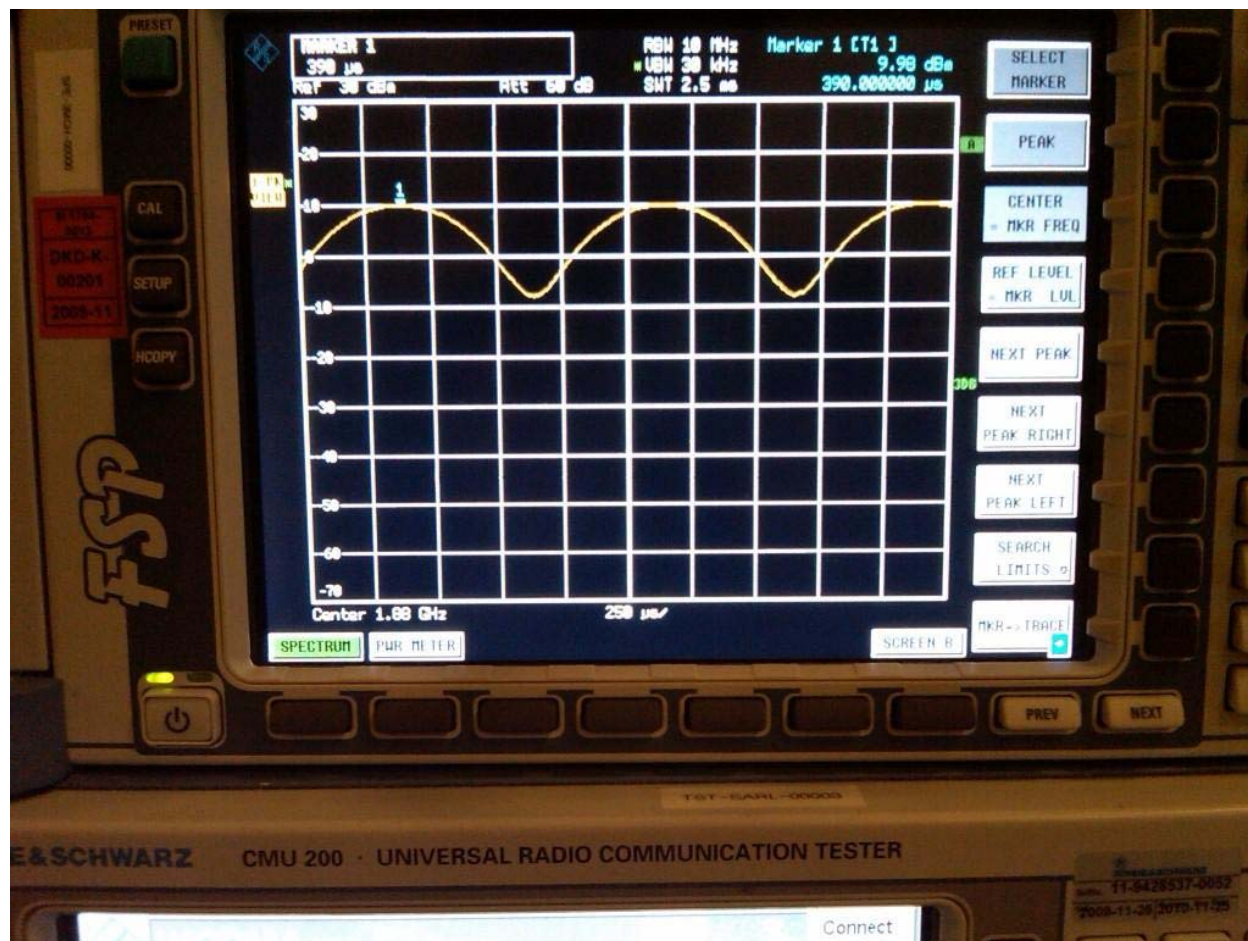
0 Hz Span GSM (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 10 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




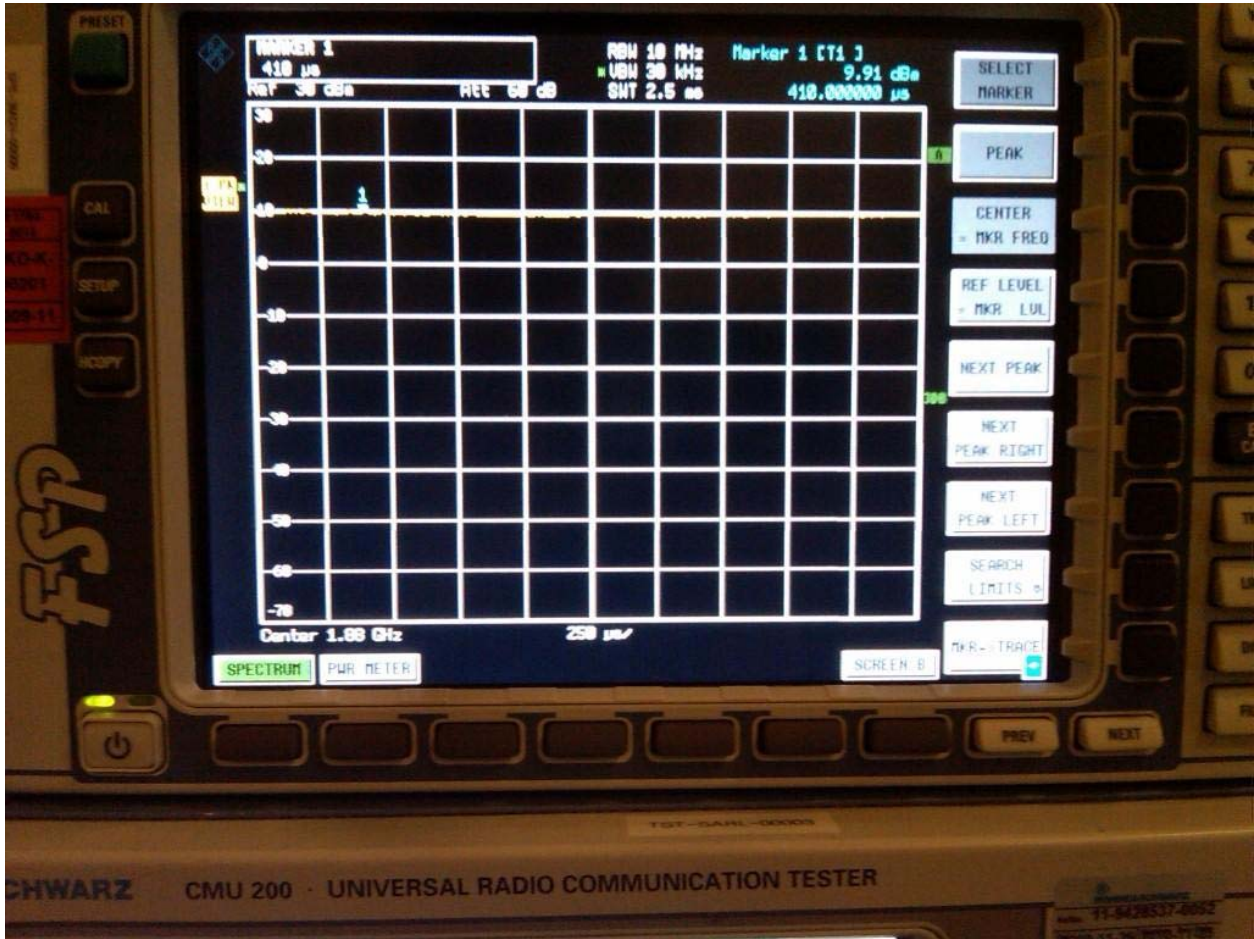
0 Hz Span CW Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 11 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW




0 Hz Span 80% AM Plot (1880MHz)


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 12 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW



0 Hz Span WCDMA (1880MHz)

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			13 (143)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 12-20, 2010	RTS-2671-1005-35	L6ARDA70UW	

A.2 Dipole validation and probe modulation factor plots

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 14 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 1:51:22 PM

File Name: [HAC_E_Dipole_835MHz_20dBm.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 105.2 V/m; Power Drift = 0.212 dB

Maximum value of Total (measured) = 166.9 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 15 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 168.1 V/m

Probe Modulation Factor = 1.00

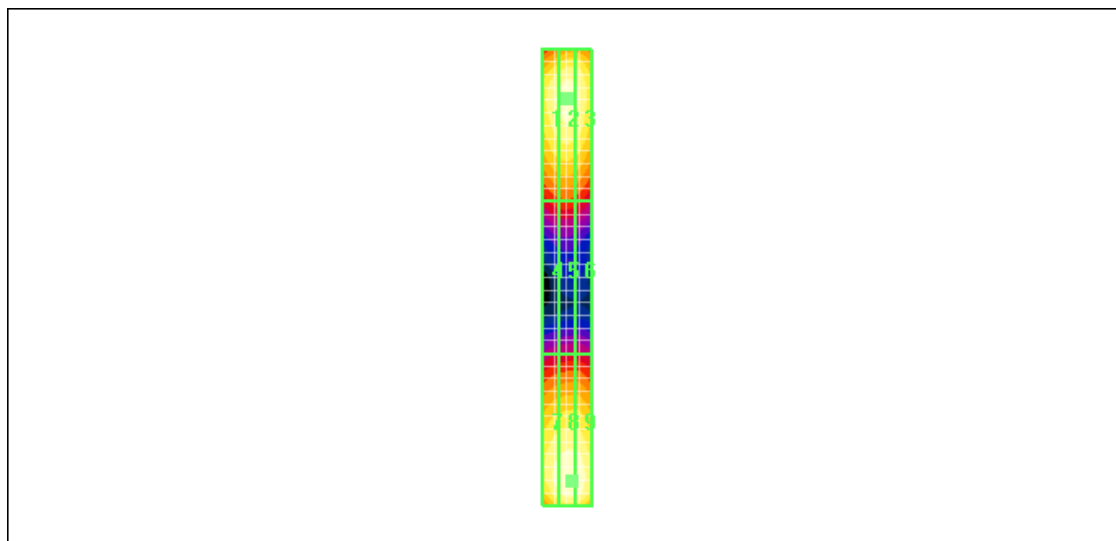
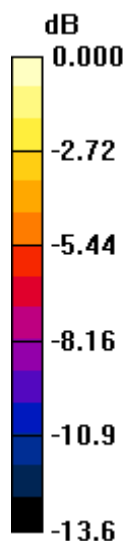
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 105.2 V/m; Power Drift = 0.212 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 155.3 M4	Grid 2 161.8 M4	Grid 3 156.4 M4
Grid 4 87.4 M4	Grid 5 88.8 M4	Grid 6 85.7 M4
Grid 7 160.2 M4	Grid 8 168.1 M4	Grid 9 166.8 M4



0 dB = 168.1V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 16 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 1:32:40 PM

File Name: [HAC_E_Dipole_835MHz_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 35.6 V/m; Power Drift = 0.022 dB

Maximum value of Total (measured) = 55.5 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 17 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 55.9 V/m

Probe Modulation Factor = 1.00

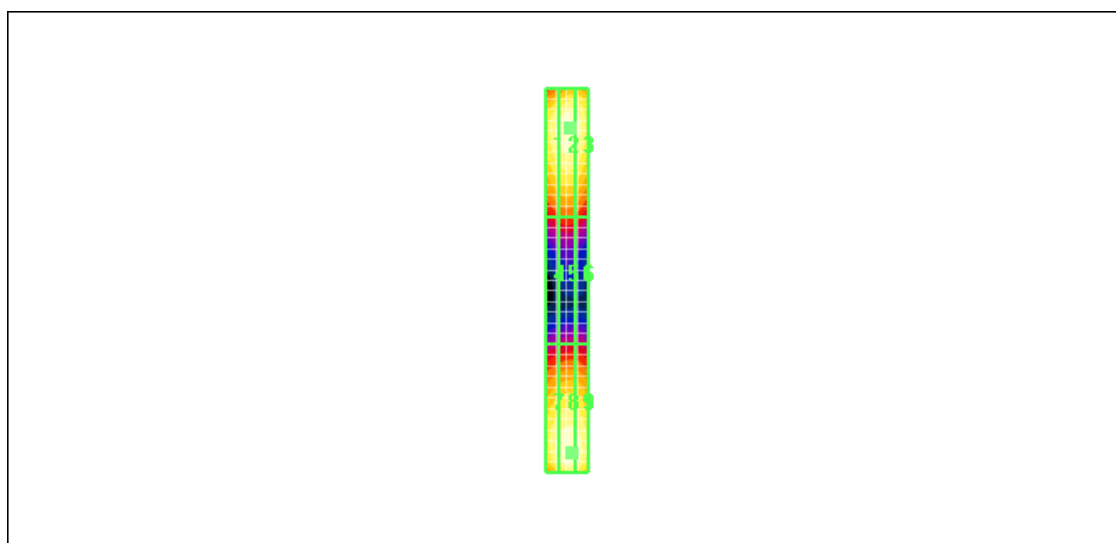
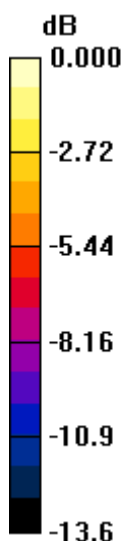
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 35.6 V/m; Power Drift = 0.022 dB


Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1 52.3 M4	Grid 2 54.9 M4	Grid 3 54.3 M4
Grid 4 29.5 M4	Grid 5 30.4 M4	Grid 6 29.6 M4
Grid 7 53.2 M4	Grid 8 55.9 M4	Grid 9 55.4 M4



0 dB = 55.9V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 18 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:07:37 PM

File Name: [HAC_E_Dipole_835MHz_CW_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 103.6 V/m; Power Drift = 0.170 dB

Maximum value of Total (measured) = 161.8 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 19 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 162.1 V/m

Probe Modulation Factor = 1.00

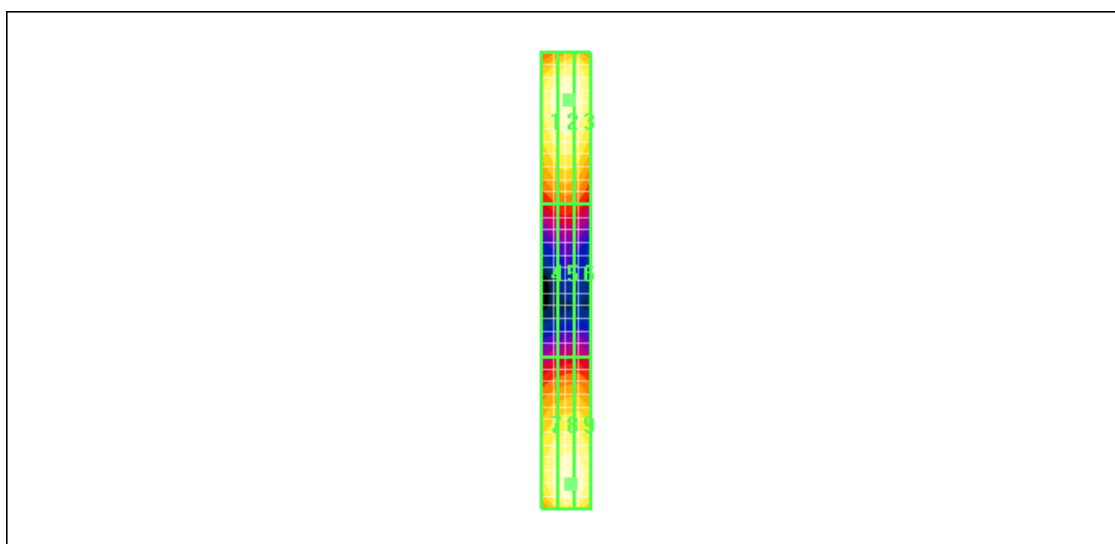
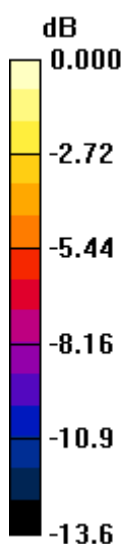
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 103.6 V/m; Power Drift = 0.170 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 155.1 M4	Grid 2 162.1 M4	Grid 3 160.4 M4
Grid 4 86.1 M4	Grid 5 88.5 M4	Grid 6 86.7 M4
Grid 7 152.4 M4	Grid 8 161.3 M4	Grid 9 160.1 M4



0 dB = 162.1V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 20 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:15:19 PM

File Name: [HAC_E_Dipole_835MHz_AM80%_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 65.3 V/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 101.1 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 21 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 101.8 V/m

Probe Modulation Factor = 1.00

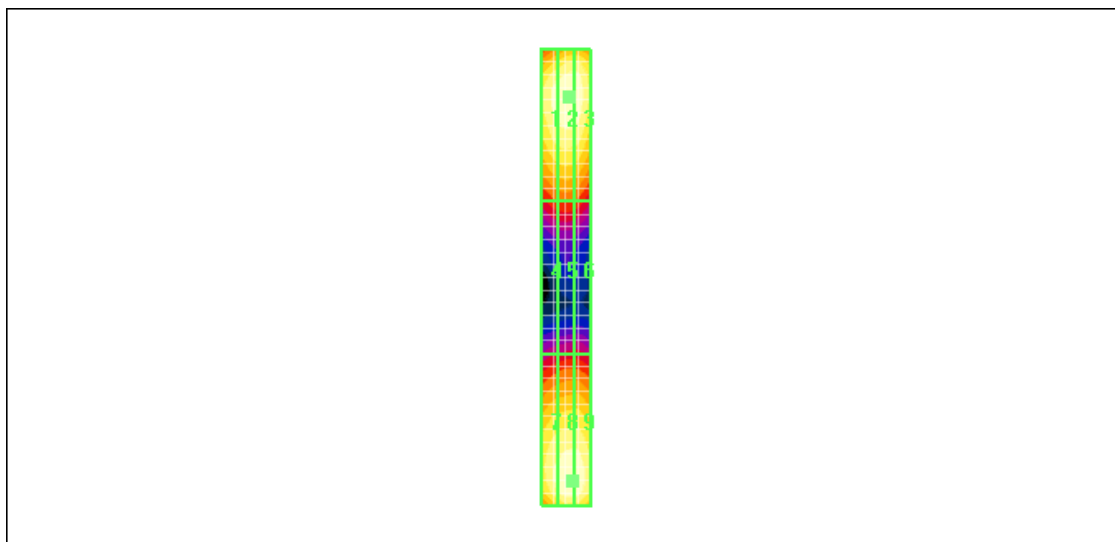
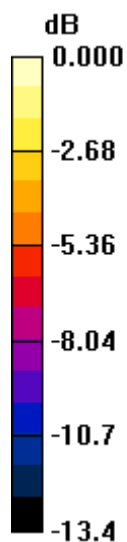
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 65.3 V/m; Power Drift = 0.021 dB


Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak E-field in V/m

Grid 1 97.2 M4	Grid 2 101.3 M4	Grid 3 100.5 M4
Grid 4 54.8 M4	Grid 5 56.0 M4	Grid 6 54.8 M4
Grid 7 95.9 M4	Grid 8 101.8 M4	Grid 9 101.4 M4



0 dB = 101.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 22 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 1:42:12 PM

File Name: [HAC_E_Dipole_835MHz_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: WCDMA FDD V; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 37.1 V/m; Power Drift = -0.079 dB

Maximum value of Total (measured) = 57.5 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 23 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 58.0 V/m

Probe Modulation Factor = 1.00

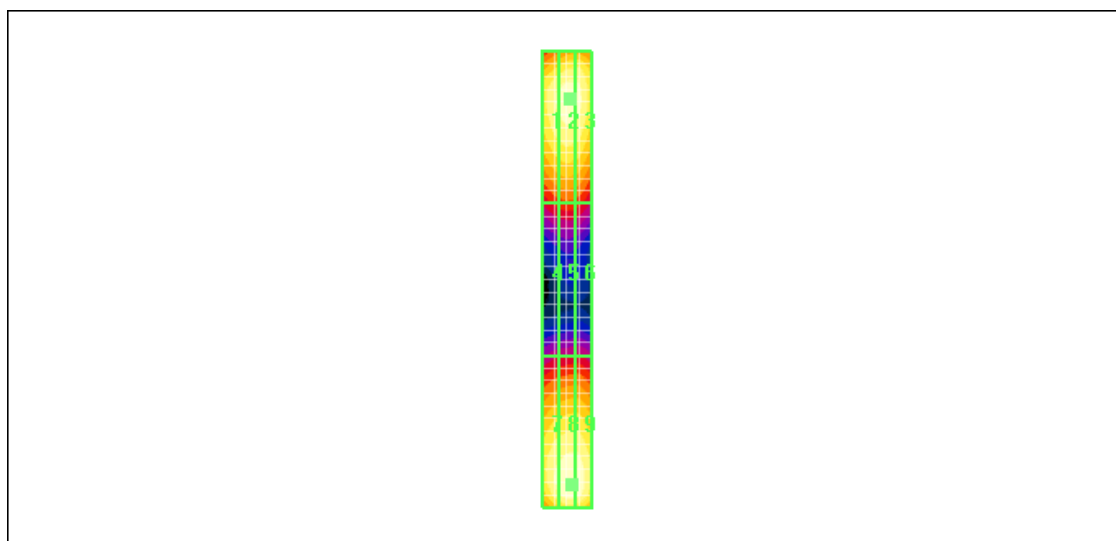
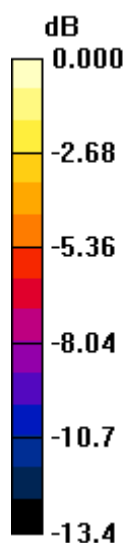
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 37.1 V/m; Power Drift = -0.079 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 53.5 M4	Grid 2 55.9 M4	Grid 3 55.3 M4
Grid 4 29.8 M4	Grid 5 30.7 M4	Grid 6 30.1 M4
Grid 7 54.8 M4	Grid 8 58.0 M4	Grid 9 57.5 M4



0 dB = 58.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 24 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:22:58 PM

File Name: [HAC_E_Dipole_835MHz_CW_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 36.2 V/m; Power Drift = 0.008 dB

Maximum value of Total (measured) = 57.4 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 25 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 57.4 V/m

Probe Modulation Factor = 1.00

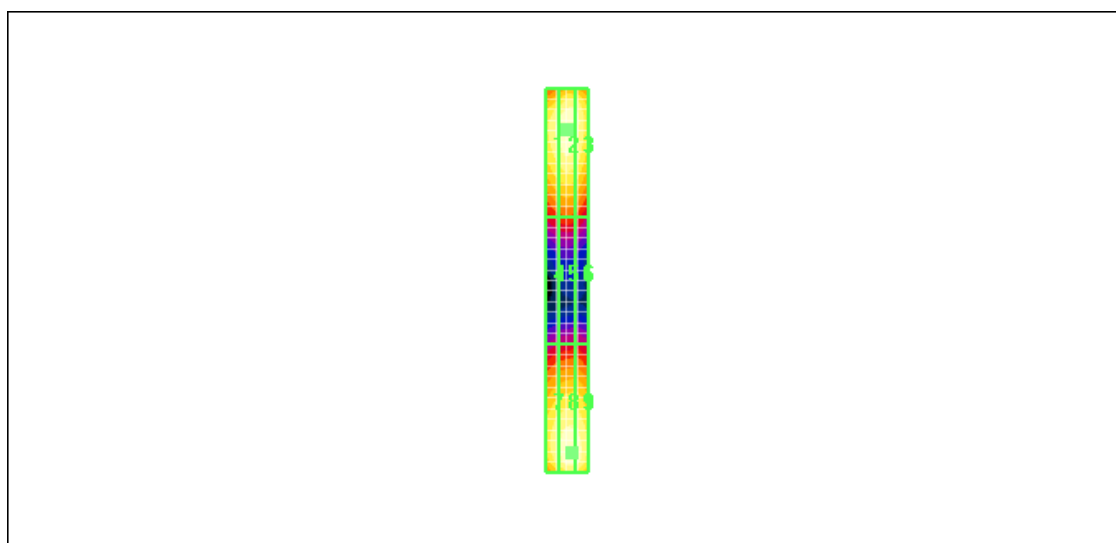
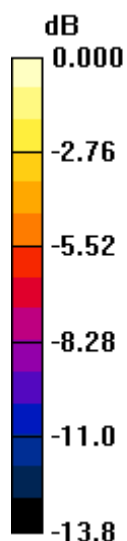
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.2 V/m; Power Drift = 0.008 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 54.2 M4	Grid 2 57.4 M4	Grid 3 55.2 M4
Grid 4 29.7 M4	Grid 5 30.8 M4	Grid 6 29.8 M4
Grid 7 53.2 M4	Grid 8 56.9 M4	Grid 9 56.6 M4



0 dB = 57.4V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 26 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:30:13 PM

File Name: [HAC_E_Dipole_835MHz_AM80%_WCDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 23.6 V/m; Power Drift = -0.049 dB

Maximum value of Total (measured) = 36.1 V/m

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 27 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 36.4 V/m

Probe Modulation Factor = 1.00

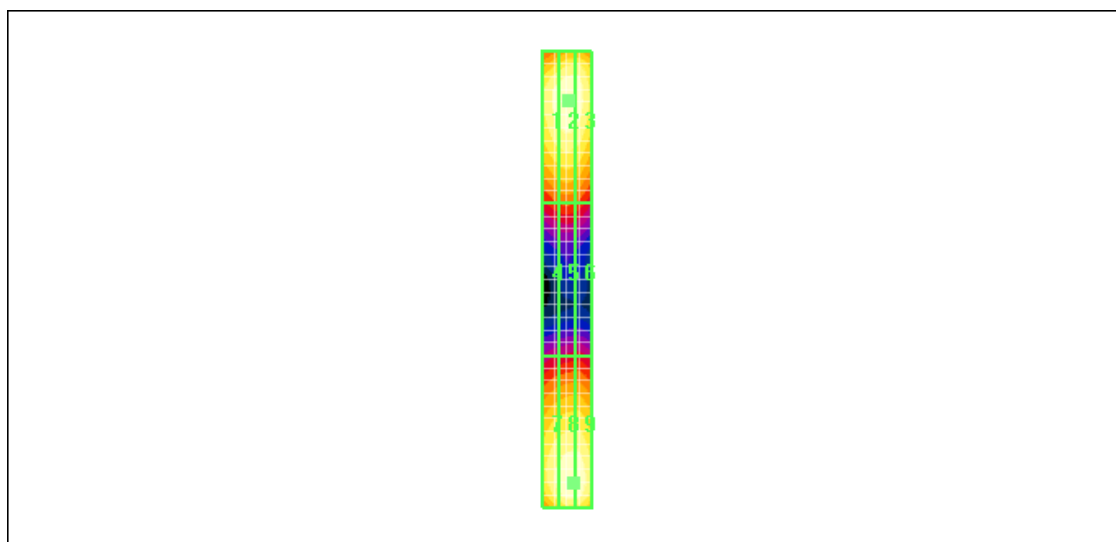
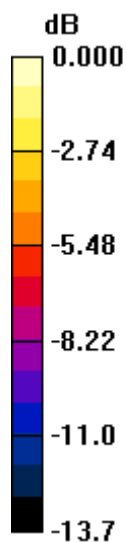
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 23.6 V/m; Power Drift = -0.049 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 34.7 M4	Grid 2 36.2 M4	Grid 3 35.6 M4
Grid 4 19.3 M4	Grid 5 19.9 M4	Grid 6 19.3 M4
Grid 7 34.0 M4	Grid 8 36.4 M4	Grid 9 36.2 M4



0 dB = 36.4V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 28 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 3:15:46 PM

File Name: [HAC_E_Dipole_1880MHz_20dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 146.4 V/m; Power Drift = 0.043 dB

Maximum value of Total (measured) = 132.6 V/m

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 29 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 133.2 V/m

Probe Modulation Factor = 1.00

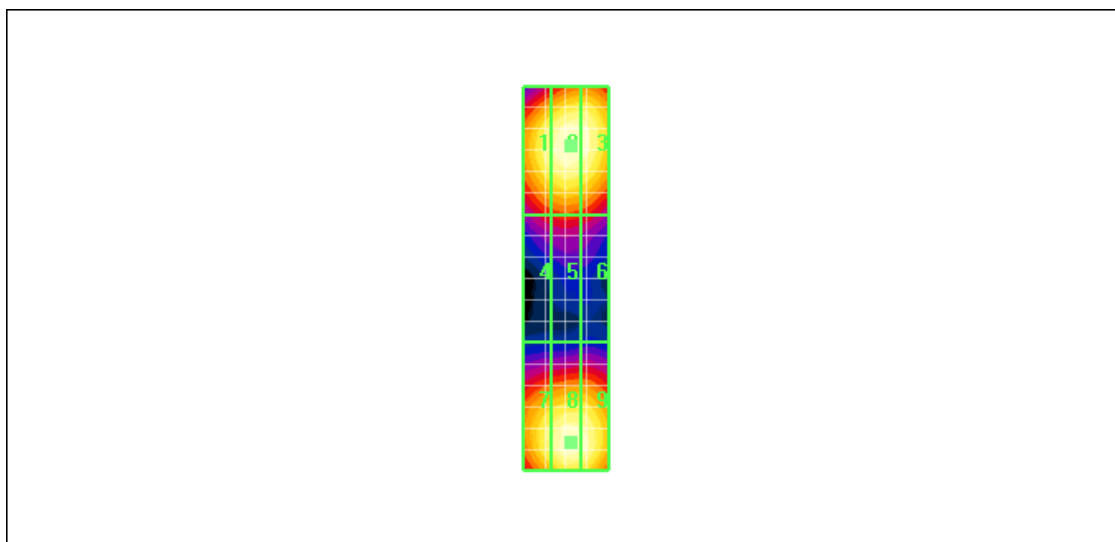
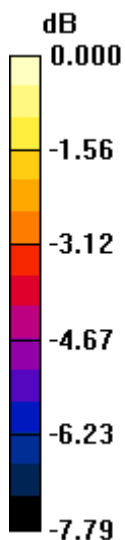
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 146.4 V/m; Power Drift = 0.043 dB


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 126.7 M2	Grid 2 133.2 M2	Grid 3 131.5 M2
Grid 4 89.8 M3	Grid 5 92.5 M3	Grid 6 90.2 M3
Grid 7 124.5 M2	Grid 8 132.8 M2	Grid 9 131.2 M2



0 dB = 133.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 30 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:49:55 PM

File Name: [HAC_E_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 18.7 V/m; Power Drift = 0.024 dB

Maximum value of Total (measured) = 37.6 V/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 31 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 38.2 V/m

Probe Modulation Factor = 1.00

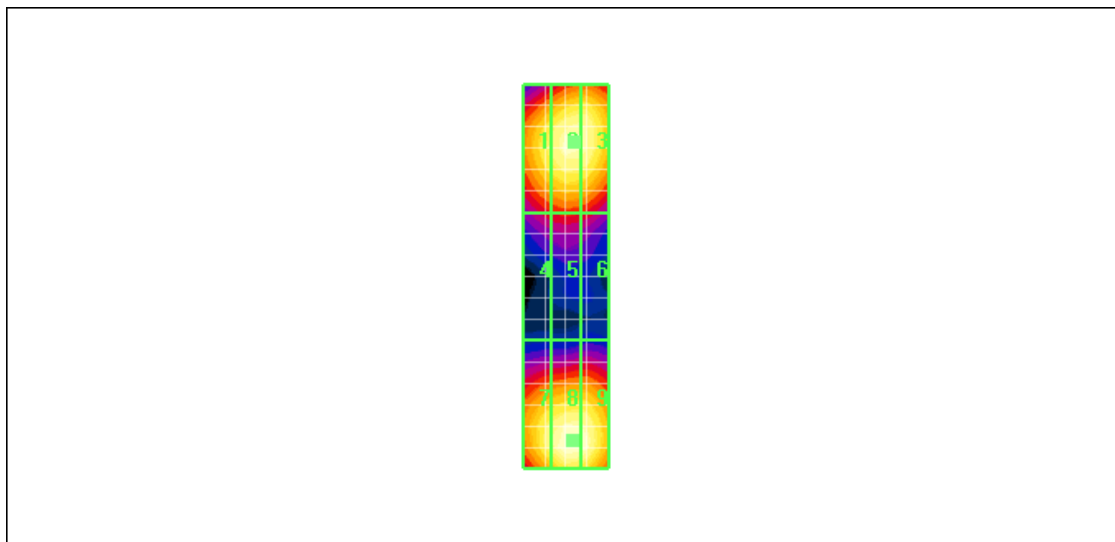
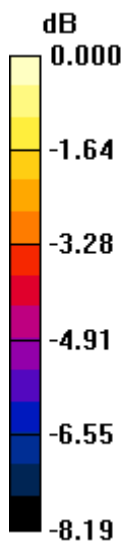
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.7 V/m; Power Drift = 0.024 dB


Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

Grid 1 34.6 M4	Grid 2 37.0 M4	Grid 3 36.8 M4
Grid 4 24.6 M4	Grid 5 25.6 M4	Grid 6 25.0 M4
Grid 7 35.7 M4	Grid 8 38.2 M4	Grid 9 37.8 M4



0 dB = 38.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 32 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 3:20:34 PM

File Name: [HAC_E_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 120.0 V/m; Power Drift = -0.137 dB

Maximum value of Total (measured) = 104.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 33 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 105.7 V/m

Probe Modulation Factor = 1.00

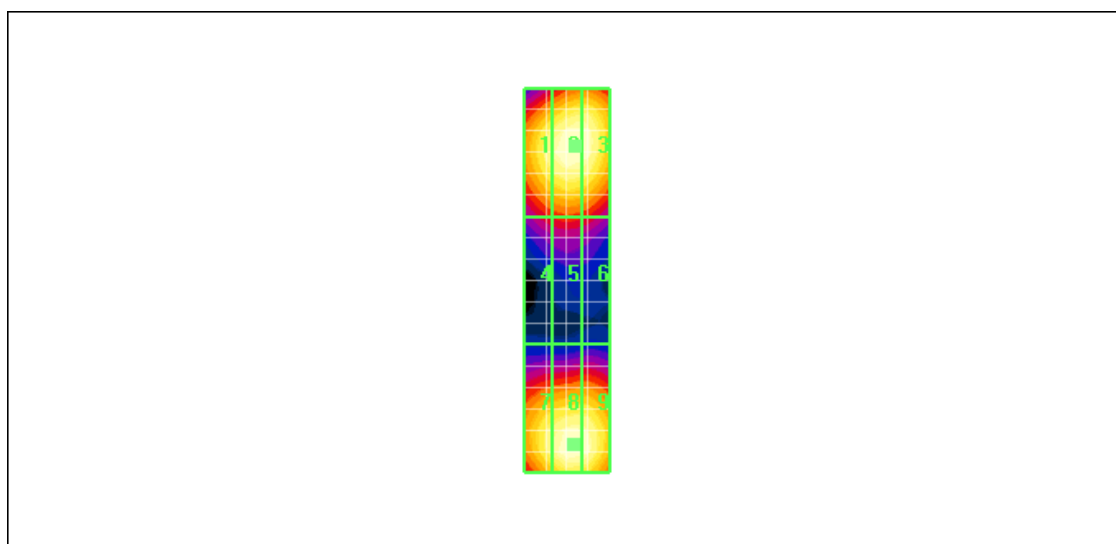
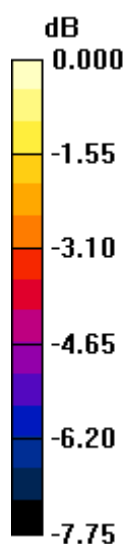
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 120.0 V/m; Power Drift = -0.137 dB


Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1 99.7 M3	Grid 2 104.9 M3	Grid 3 104.5 M3
Grid 4 70.9 M3	Grid 5 73.3 M3	Grid 6 71.7 M3
Grid 7 99.4 M3	Grid 8 105.7 M3	Grid 9 104.7 M3



0 dB = 105.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 34 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 3:25:19 PM

File Name: [HAC_E_Dipole_1880MHz_AM80%_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 73.8 V/m; Power Drift = 0.032 dB

Maximum value of Total (measured) = 67.0 V/m

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			35 (143)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 12-20, 2010	RTS-2671-1005-35	L6ARDA70UW	

Maximum value of peak Total field = 67.6 V/m

Probe Modulation Factor = 1.00

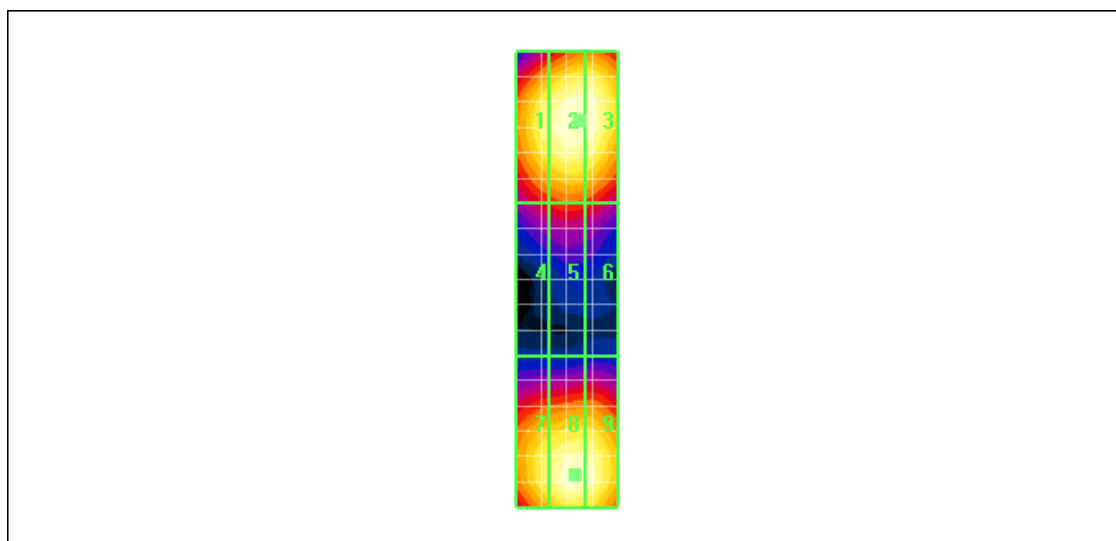
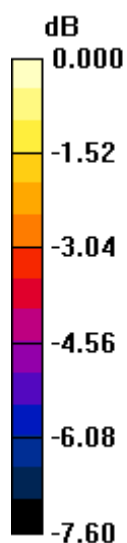
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 73.8 V/m; Power Drift = 0.032 dB


Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1 64.0 M3	Grid 2 67.6 M3	Grid 3 67.5 M3
Grid 4 45.6 M4	Grid 5 47.7 M4	Grid 6 46.7 M4
Grid 7 63.0 M4	Grid 8 67.1 M3	Grid 9 66.6 M3



0 dB = 67.6V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 36 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 2:56:22 PM

File Name: [HAC_E_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 21.7 V/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 42.5 V/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 37 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 43.2 V/m

Probe Modulation Factor = 1.00

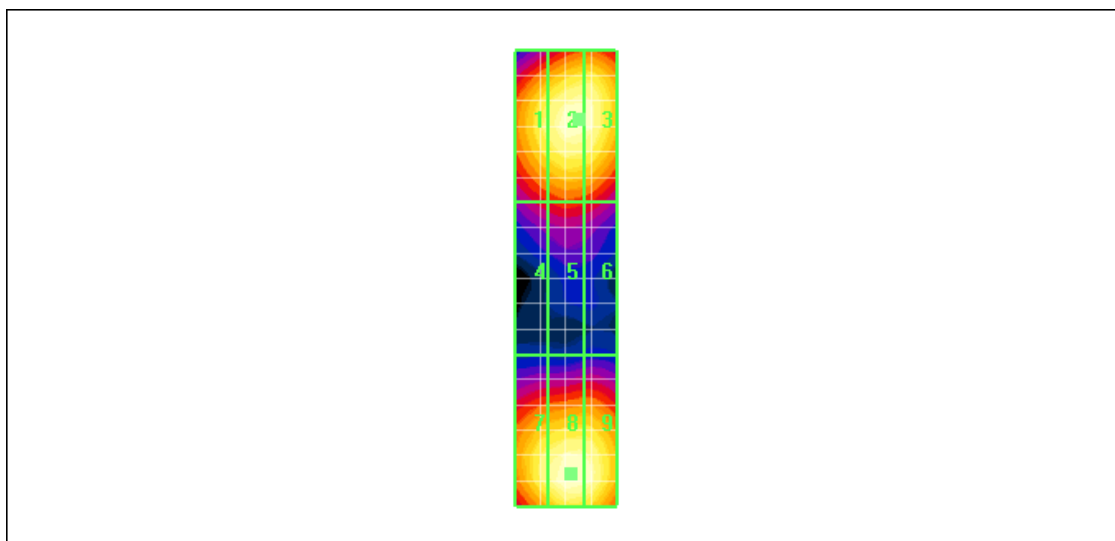
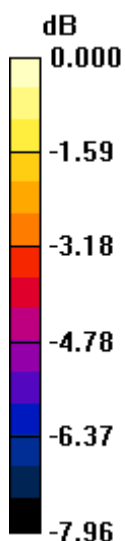
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.7 V/m; Power Drift = -0.032 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 39.7 M4	Grid 2 42.2 M4	Grid 3 42.1 M4
Grid 4 28.1 M4	Grid 5 29.5 M4	Grid 6 28.8 M4
Grid 7 40.6 M4	Grid 8 43.2 M4	Grid 9 42.7 M4



0 dB = 43.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 38 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 3:29:40 PM

File Name: [HAC_E_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 45.9 V/m; Power Drift = -0.047 dB

Maximum value of Total (measured) = 40.9 V/m

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 39 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 41.2 V/m

Probe Modulation Factor = 1.00

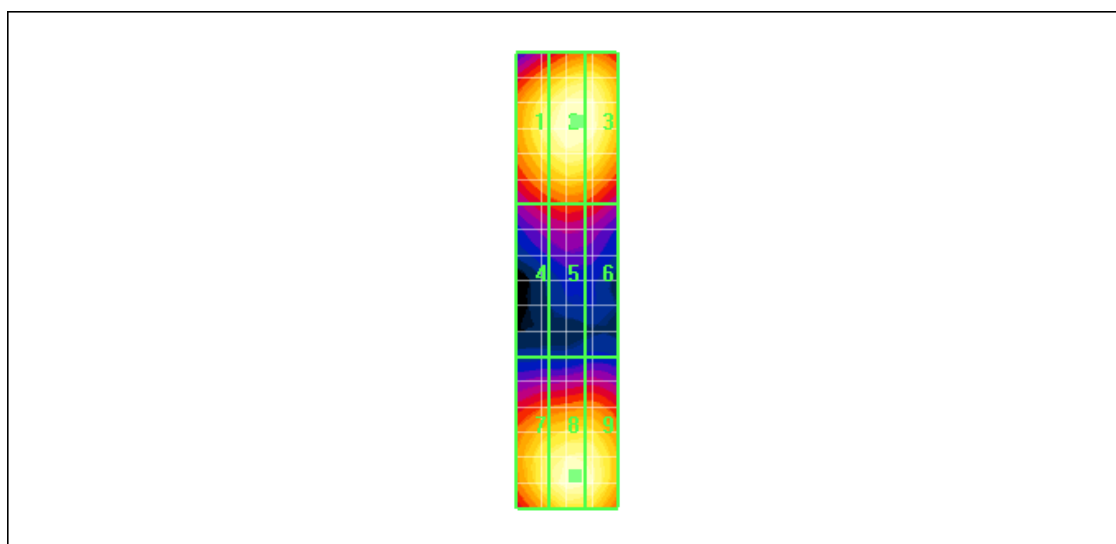
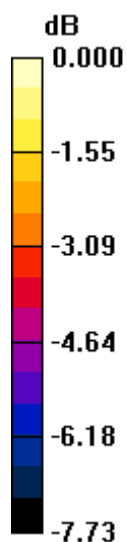
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 45.9 V/m; Power Drift = -0.047 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 38.7 M4	Grid 2 41.2 M4	Grid 3 41.0 M4
Grid 4 27.6 M4	Grid 5 28.9 M4	Grid 6 28.3 M4
Grid 7 38.3 M4	Grid 8 40.8 M4	Grid 9 40.5 M4



0 dB = 41.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 40 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/14/2010 3:34:46 PM

File Name: [HAC_E_Dipole_1880MHz_AM80%_WCDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF E Dipole

Communication System: AM; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 29.3 V/m; Power Drift = -0.057 dB

Maximum value of Total (measured) = 25.8 V/m

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 41 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 26.0 V/m

Probe Modulation Factor = 1.00

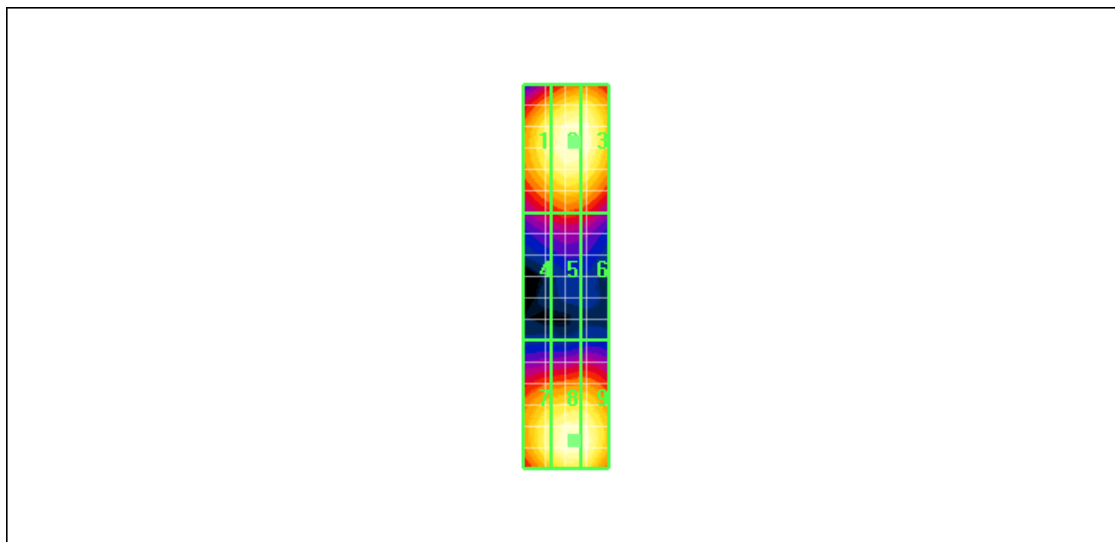
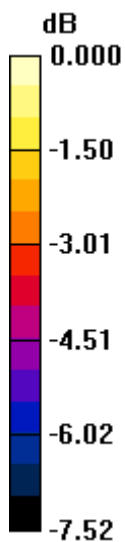
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.3 V/m; Power Drift = -0.057 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 24.5 M4	Grid 2 25.9 M4	Grid 3 25.8 M4
Grid 4 17.3 M4	Grid 5 18.3 M4	Grid 6 17.8 M4
Grid 7 24.7 M4	Grid 8 26.0 M4	Grid 9 25.9 M4



0 dB = 26.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 42 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:32:34 AM

File Name: [HAC_H_Dipole_835MHz_20dBm.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.520 A/m; Power Drift = -0.055 dB

Maximum value of Total (measured) = 0.486 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 43 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.487 A/m

Probe Modulation Factor = 1.00

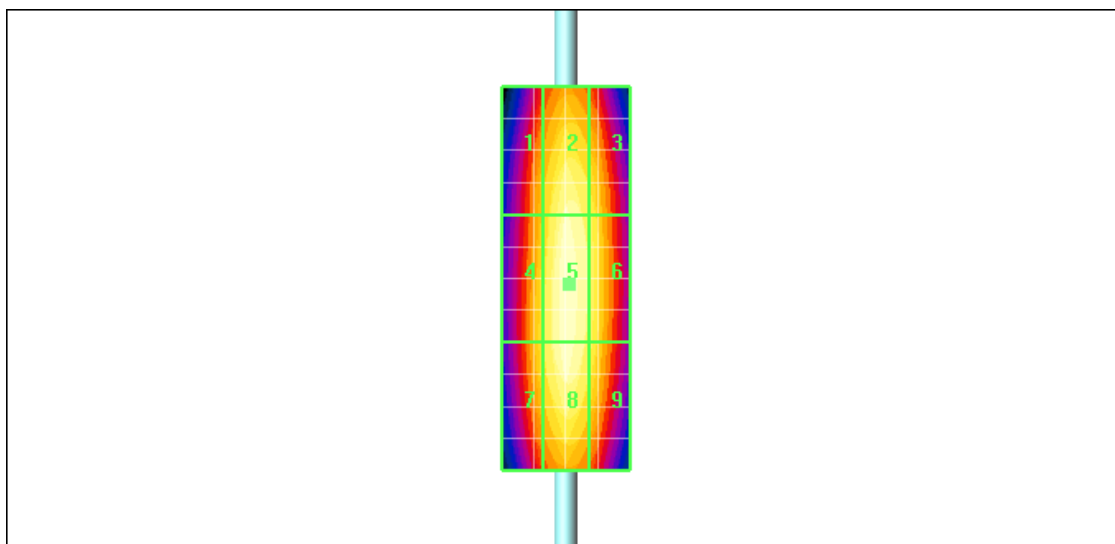
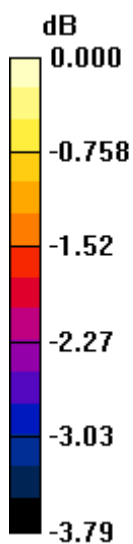
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.520 A/m; Power Drift = -0.055 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.447 M4	Grid 2 0.477 M4	Grid 3 0.465 M4
Grid 4 0.460 M4	Grid 5 0.487 M4	Grid 6 0.472 M4
Grid 7 0.459 M4	Grid 8 0.484 M4	Grid 9 0.467 M4



0 dB = 0.487A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 44 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 9:58:44 AM

File Name: [HAC_H_Dipole_835MHz_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.185 A/m; Power Drift = -0.012 dB

Maximum value of Total (measured) = 0.173 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 45 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.173 A/m

Probe Modulation Factor = 1.00

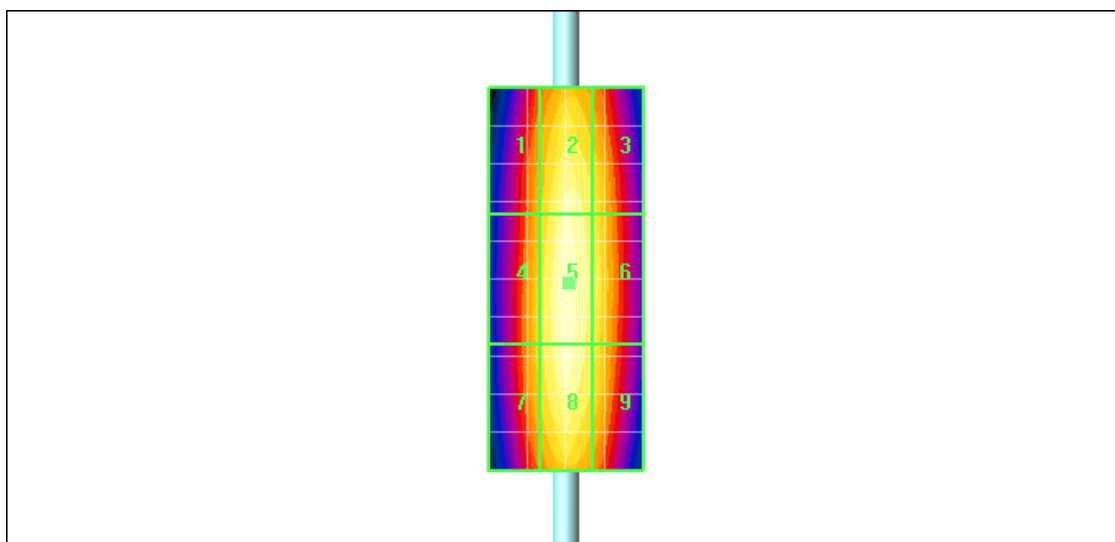
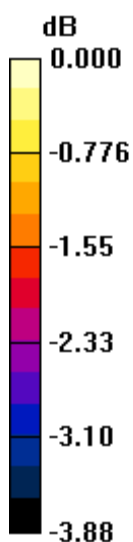
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.185 A/m; Power Drift = -0.012 dB


Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.156 M4	Grid 2 0.170 M4	Grid 3 0.164 M4
Grid 4 0.161 M4	Grid 5 0.173 M4	Grid 6 0.166 M4
Grid 7 0.161 M4	Grid 8 0.172 M4	Grid 9 0.164 M4



0 dB = 0.173A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 46 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:09:37 AM

File Name: [HAC_H_Dipole_835MHz_CW_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.510 A/m; Power Drift = -0.100 dB

Maximum value of Total (measured) = 0.478 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 47 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.479 A/m

Probe Modulation Factor = 1.00

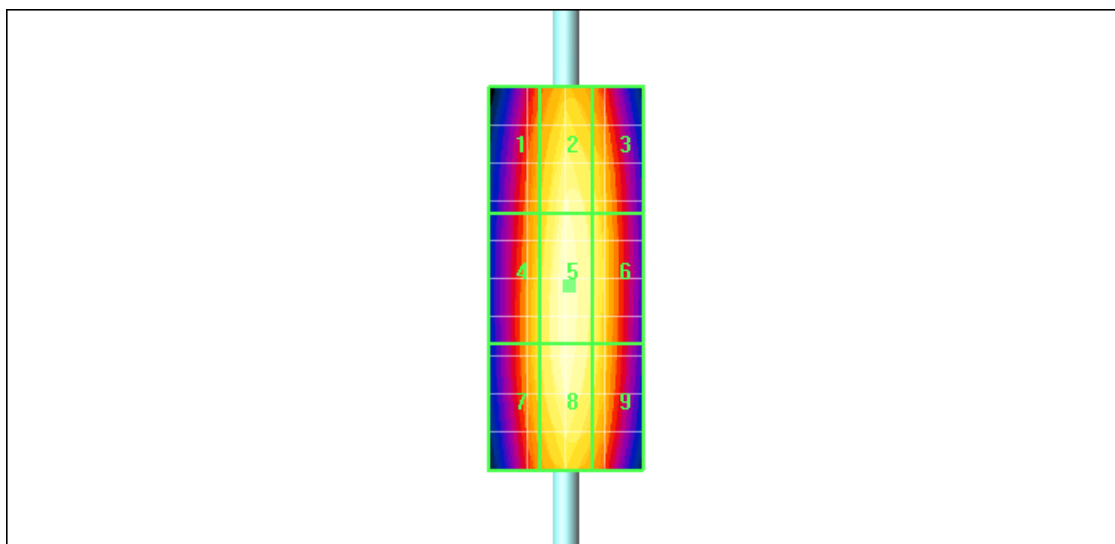
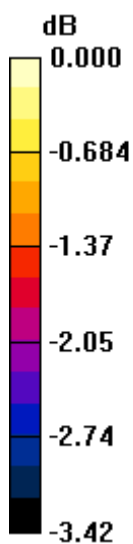
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.510 A/m; Power Drift = -0.100 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.441 M4	Grid 2 0.471 M4	Grid 3 0.460 M4
Grid 4 0.454 M4	Grid 5 0.479 M4	Grid 6 0.466 M4
Grid 7 0.454 M4	Grid 8 0.477 M4	Grid 9 0.461 M4



0 dB = 0.479A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 48 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:13:59 AM

File Name: [HAC_H_Dipole_835MHz_AM80%_GSM_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.330 A/m; Power Drift = 0.013 dB

Maximum value of Total (measured) = 0.312 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1): Measurement grid:

dx=5mm, dy=5mm

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			49 (143)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 12-20, 2010	RTS-2671-1005-35	L6ARDA70UW	

Maximum value of peak Total field = 0.312 A/m

Probe Modulation Factor = 1.00

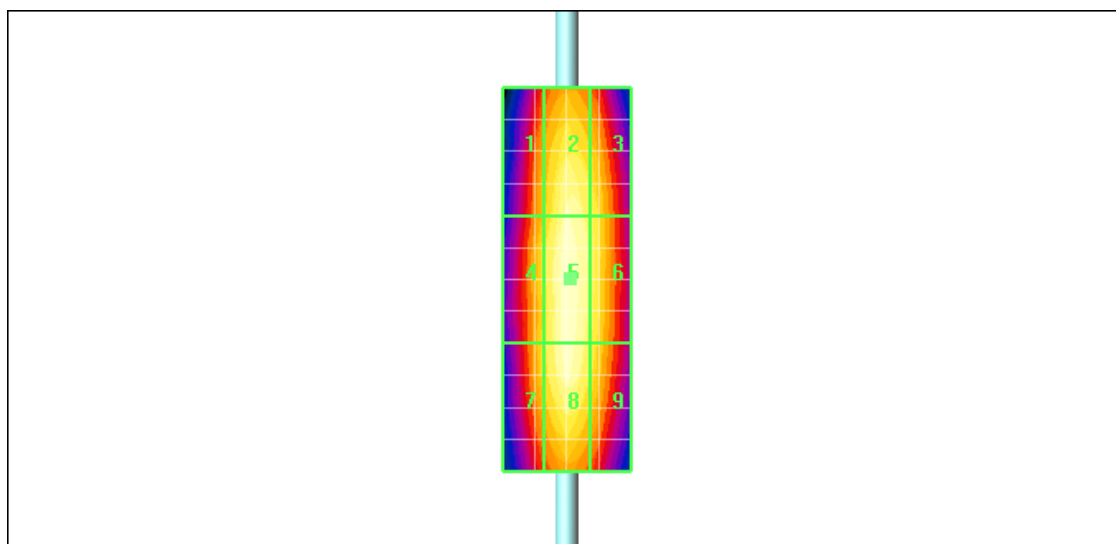
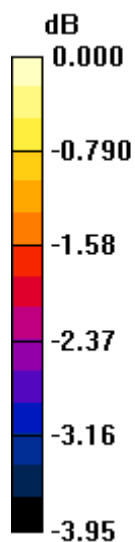
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.330 A/m; Power Drift = 0.013 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.284 M4	Grid 2 0.306 M4	Grid 3 0.298 M4
Grid 4 0.292 M4	Grid 5 0.312 M4	Grid 6 0.301 M4
Grid 7 0.291 M4	Grid 8 0.310 M4	Grid 9 0.297 M4



0 dB = 0.312A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 50 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:04:46 AM

File Name: [HAC_H_Dipole_835MHz_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD V; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.178 A/m; Power Drift = -0.027 dB

Maximum value of Total (measured) = 0.167 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 51 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.00

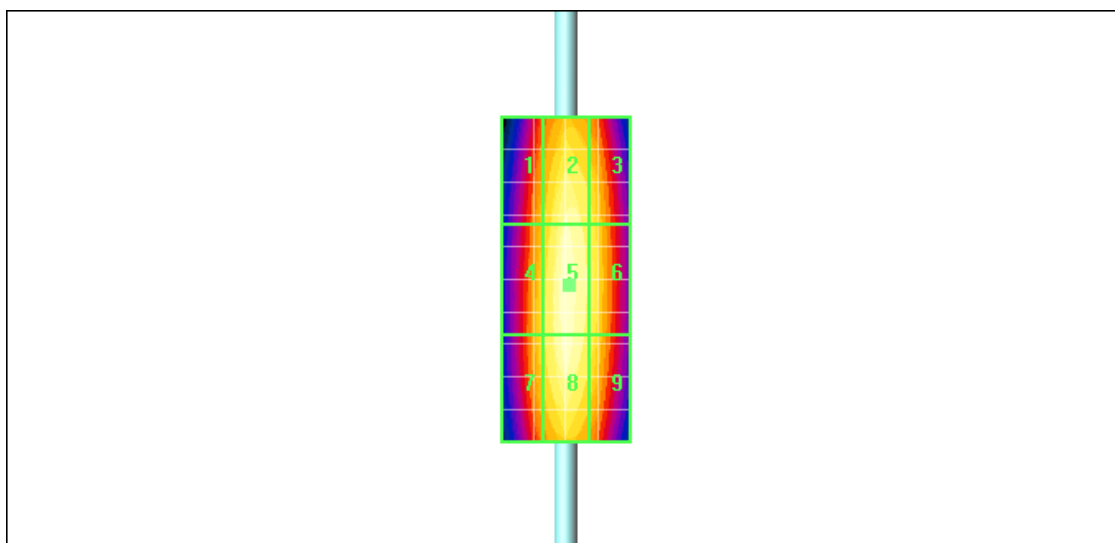
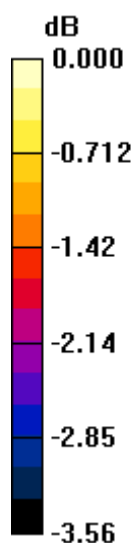
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.178 A/m; Power Drift = -0.027 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.154 M4	Grid 2 0.165 M4	Grid 3 0.161 M4
Grid 4 0.158 M4	Grid 5 0.168 M4	Grid 6 0.163 M4
Grid 7 0.158 M4	Grid 8 0.167 M4	Grid 9 0.161 M4



0 dB = 0.168A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 52 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:20:11 AM

File Name: [HAC_H_Dipole_835MHz_CW_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.176 A/m; Power Drift = -0.040 dB

Maximum value of Total (measured) = 0.164 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 53 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.164 A/m

Probe Modulation Factor = 1.00

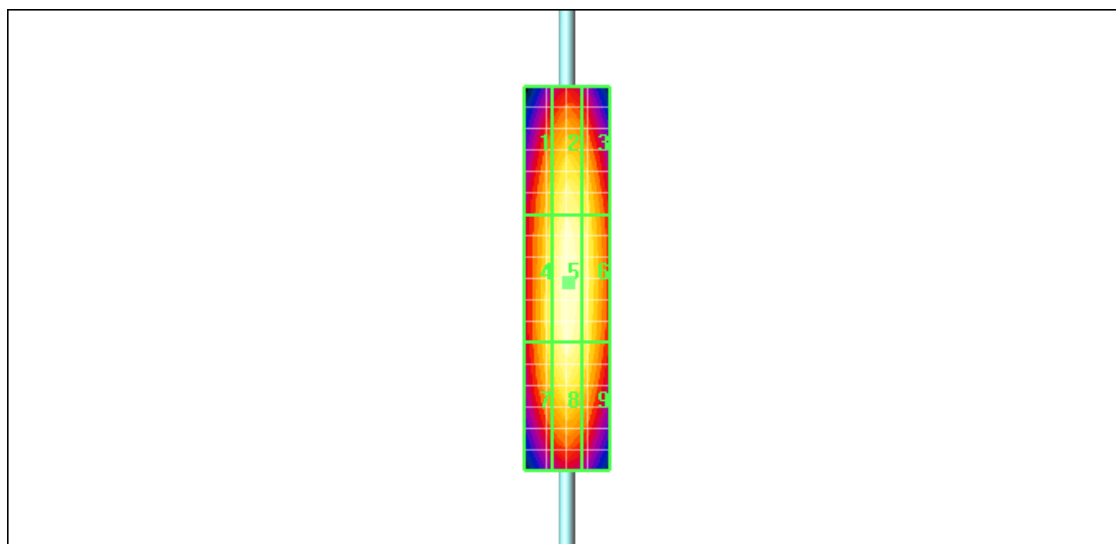
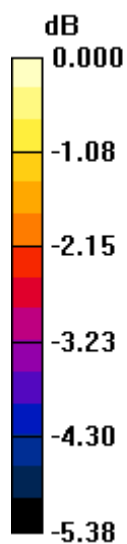
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.176 A/m; Power Drift = -0.040 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.148 M4	Grid 2 0.158 M4	Grid 3 0.154 M4
Grid 4 0.154 M4	Grid 5 0.164 M4	Grid 6 0.159 M4
Grid 7 0.152 M4	Grid 8 0.160 M4	Grid 9 0.154 M4



0 dB = 0.164A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 54 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:26:00 AM

File Name: [HAC_H_Dipole_835MHz_AM80%_WCDMA_mod.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.112 A/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 0.106 A/m

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 55 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.106 A/m

Probe Modulation Factor = 1.00

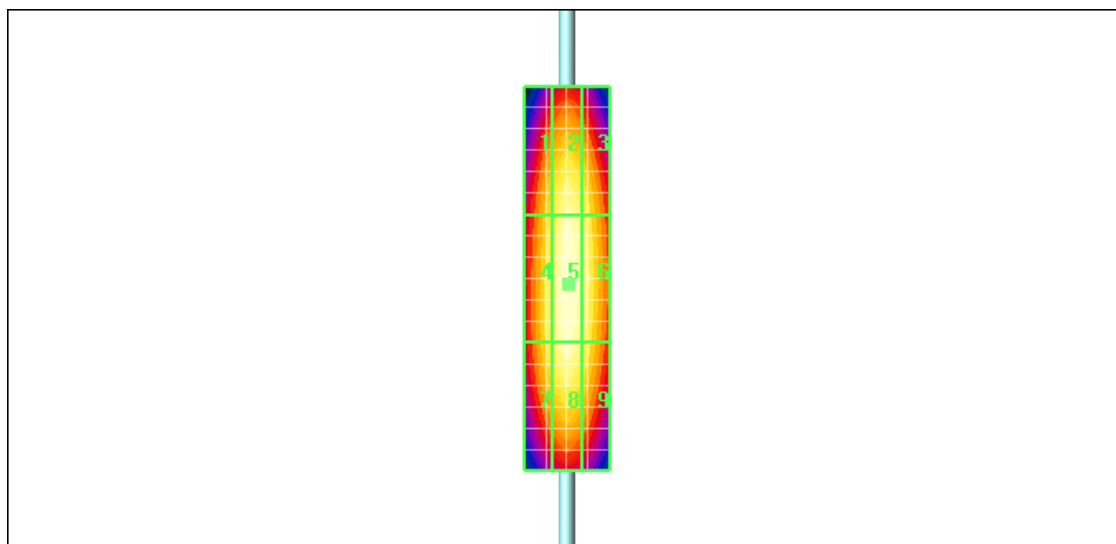
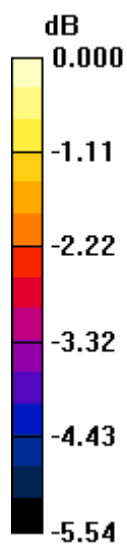
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.112 A/m; Power Drift = -0.048 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.096 M4	Grid 2 0.102 M4	Grid 3 0.099 M4
Grid 4 0.100 M4	Grid 5 0.106 M4	Grid 6 0.102 M4
Grid 7 0.099 M4	Grid 8 0.104 M4	Grid 9 0.100 M4



0 dB = 0.106A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 56 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 11:30:33 AM

File Name: [HAC_H_Dipole_1880MHz_20dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.495 A/m; Power Drift = 0.075 dB

Maximum value of Total (measured) = 0.471 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 57 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.473 A/m

Probe Modulation Factor = 1.00

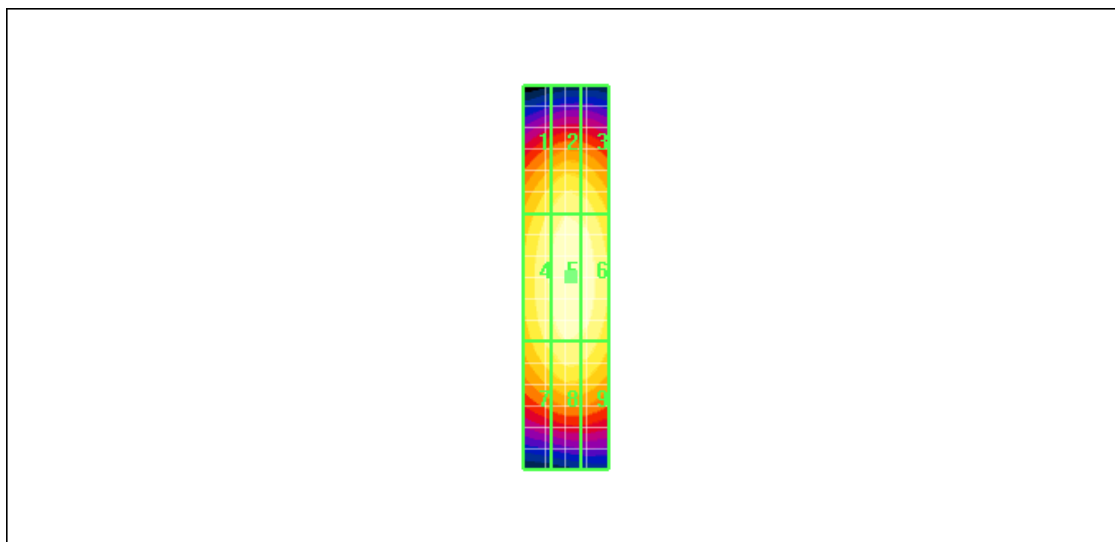
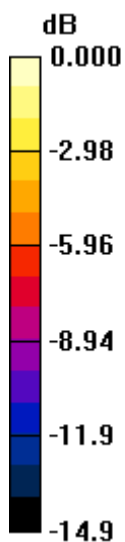
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.495 A/m; Power Drift = 0.075 dB


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.388 M2	Grid 2 0.422 M2	Grid 3 0.414 M2
Grid 4 0.433 M2	Grid 5 0.473 M2	Grid 6 0.461 M2
Grid 7 0.395 M2	Grid 8 0.425 M2	Grid 9 0.417 M2



0 dB = 0.473A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 58 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:41:35 AM

File Name: [HAC_H_Dipole_1880MHz_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.163 A/m; Power Drift = -0.012 dB

Maximum value of Total (measured) = 0.150 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 59 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.151 A/m

Probe Modulation Factor = 1.00

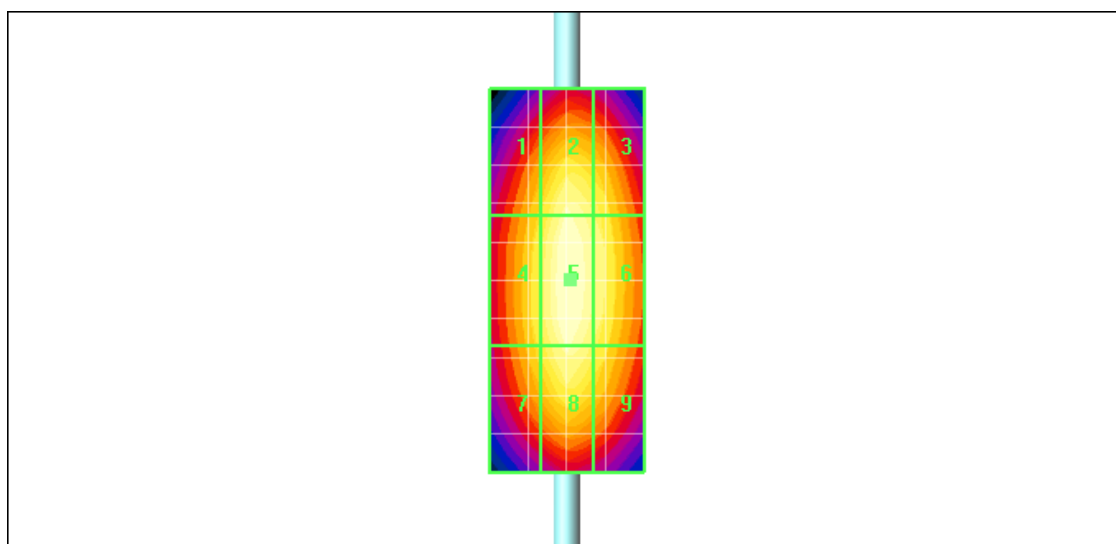
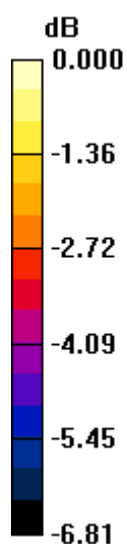
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.163 A/m; Power Drift = -0.012 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.131 M4	Grid 2 0.146 M3	Grid 3 0.139 M4
Grid 4 0.137 M4	Grid 5 0.151 M3	Grid 6 0.143 M3
Grid 7 0.133 M4	Grid 8 0.145 M3	Grid 9 0.138 M4



0 dB = 0.151A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 60 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 11:07:54 AM

File Name: [HAC_H_Dipole_1880MHz_CW_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x10x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.402 A/m; Power Drift = -0.049 dB

Maximum value of Total (measured) = 0.381 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x91x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 61 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.383 A/m

Probe Modulation Factor = 1.00

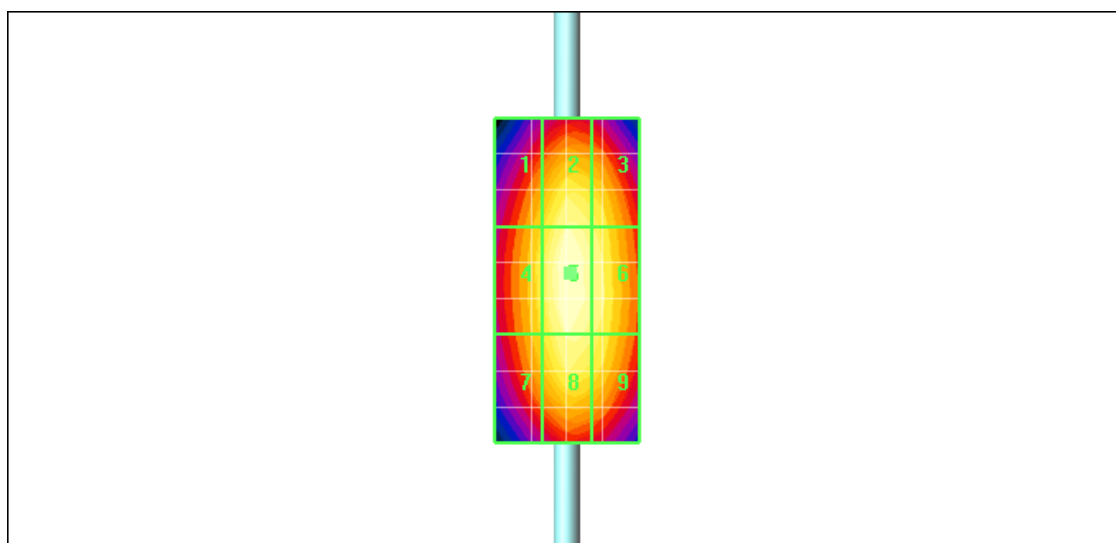
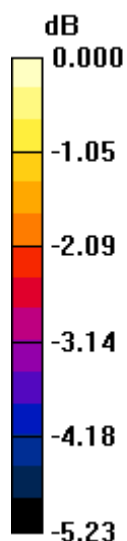
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.402 A/m; Power Drift = -0.049 dB


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.341 M2	Grid 2 0.370 M2	Grid 3 0.360 M2
Grid 4 0.351 M2	Grid 5 0.383 M2	Grid 6 0.370 M2
Grid 7 0.343 M2	Grid 8 0.371 M2	Grid 9 0.361 M2



0 dB = 0.383A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 62 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 11:11:44 AM

File Name: [HAC_H_Dipole_1880MHz_AM80%_GSM_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.267 A/m; Power Drift = -0.024 dB

Maximum value of Total (measured) = 0.250 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 63 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.251 A/m

Probe Modulation Factor = 1.00

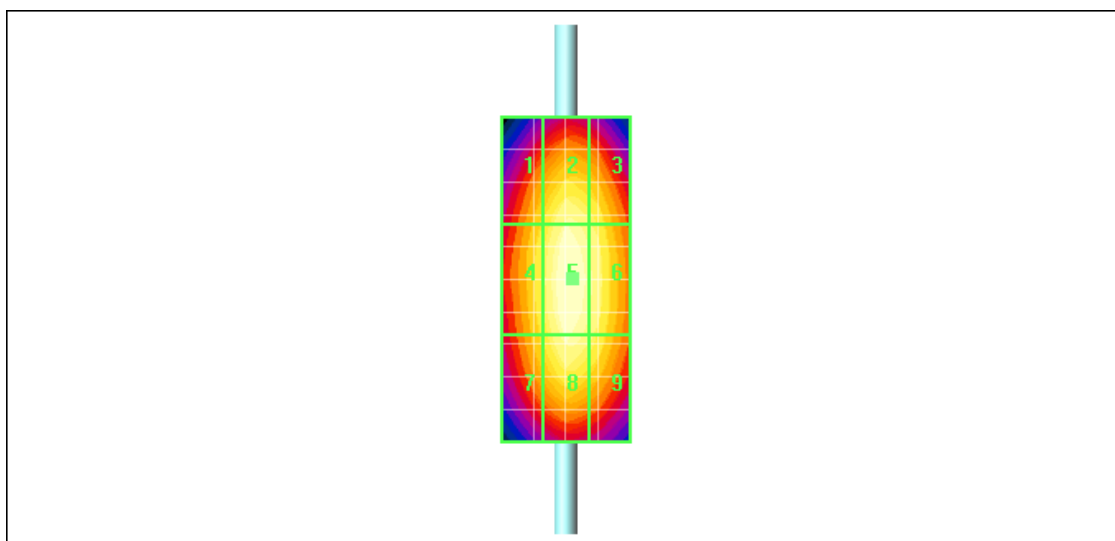
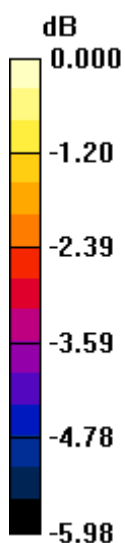
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.267 A/m; Power Drift = -0.024 dB


Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.223 M3	Grid 2 0.241 M3	Grid 3 0.235 M3
Grid 4 0.230 M3	Grid 5 0.251 M3	Grid 6 0.242 M3
Grid 7 0.224 M3	Grid 8 0.243 M3	Grid 9 0.236 M3



0 dB = 0.251 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 64 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 10:52:08 AM

File Name: [HAC_H_Dipole_1880MHz_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.160 A/m; Power Drift = -0.010 dB

Maximum value of Total (measured) = 0.151 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 65 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.151 A/m

Probe Modulation Factor = 1.00

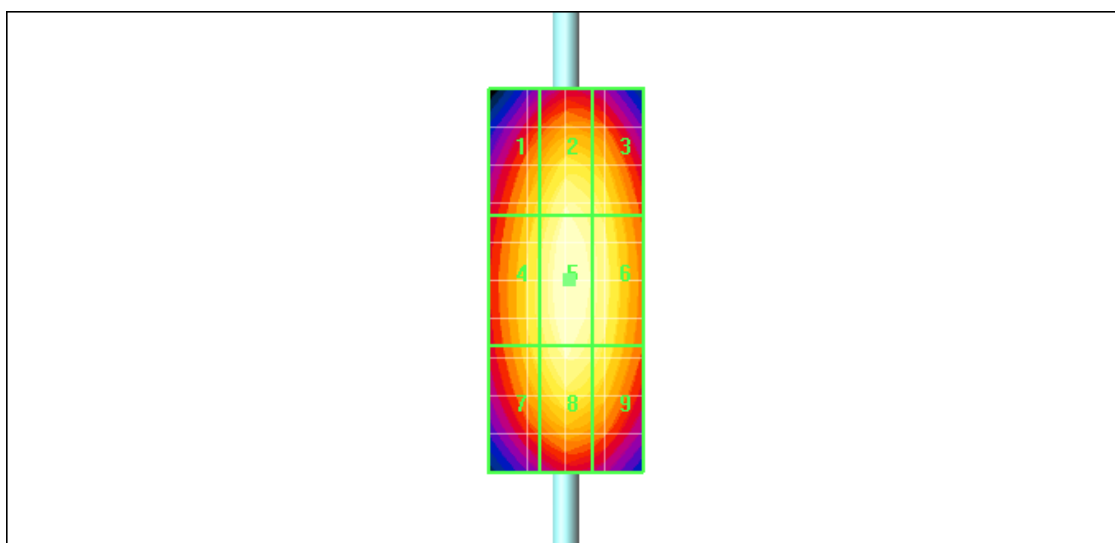
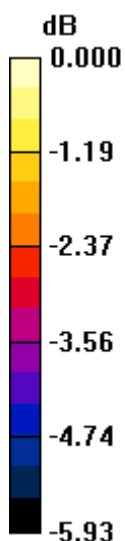
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.160 A/m; Power Drift = -0.010 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.135 M4	Grid 2 0.146 M4	Grid 3 0.142 M4
Grid 4 0.140 M4	Grid 5 0.151 M4	Grid 6 0.146 M4
Grid 7 0.137 M4	Grid 8 0.147 M4	Grid 9 0.142 M4



0 dB = 0.151A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 66 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 11:17:10 AM

File Name: [HAC_H_Dipole_1880MHz_CW_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.158 A/m; Power Drift = -0.113 dB

Maximum value of Total (measured) = 0.148 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 67 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 0.149 A/m

Probe Modulation Factor = 1.00

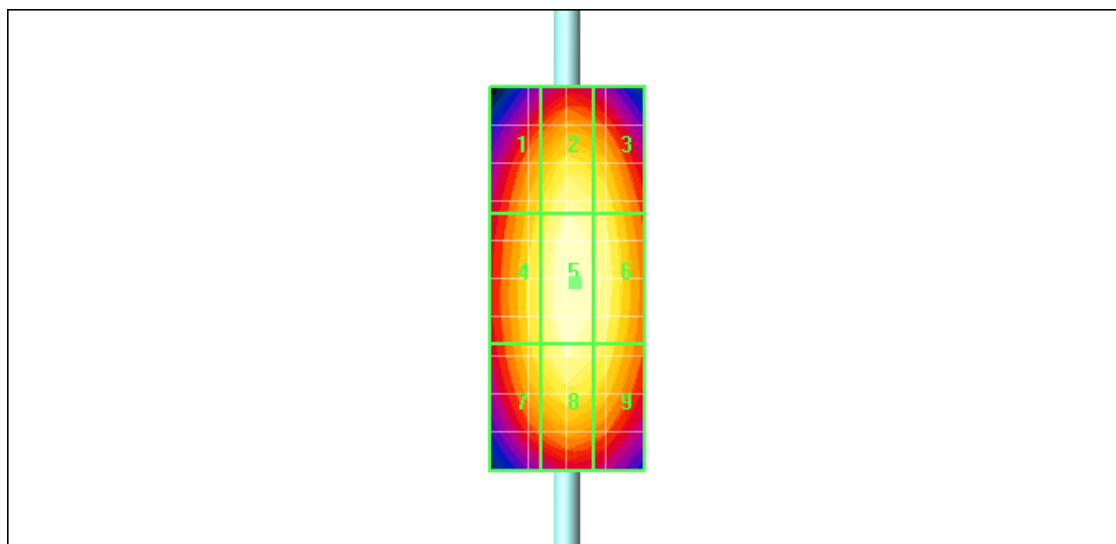
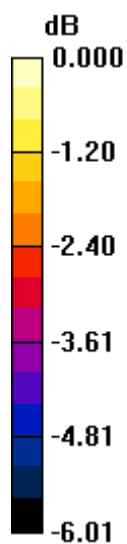
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.158 A/m; Power Drift = -0.113 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.133 M4	Grid 2 0.144 M4	Grid 3 0.140 M4
Grid 4 0.139 M4	Grid 5 0.149 M4	Grid 6 0.145 M4
Grid 7 0.136 M4	Grid 8 0.145 M4	Grid 9 0.140 M4



0 dB = 0.149A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 68 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/15/2010 11:24:43 AM

File Name: [HAC_H_Dipole_1880MHz_AM80%_WCDMA_mod.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Program Name: HAC RF H3DV6 Dipole

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.100 A/m; Power Drift = -0.016 dB


Maximum value of Total (measured) = 0.095 A/m

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.095 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 69 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 1.00

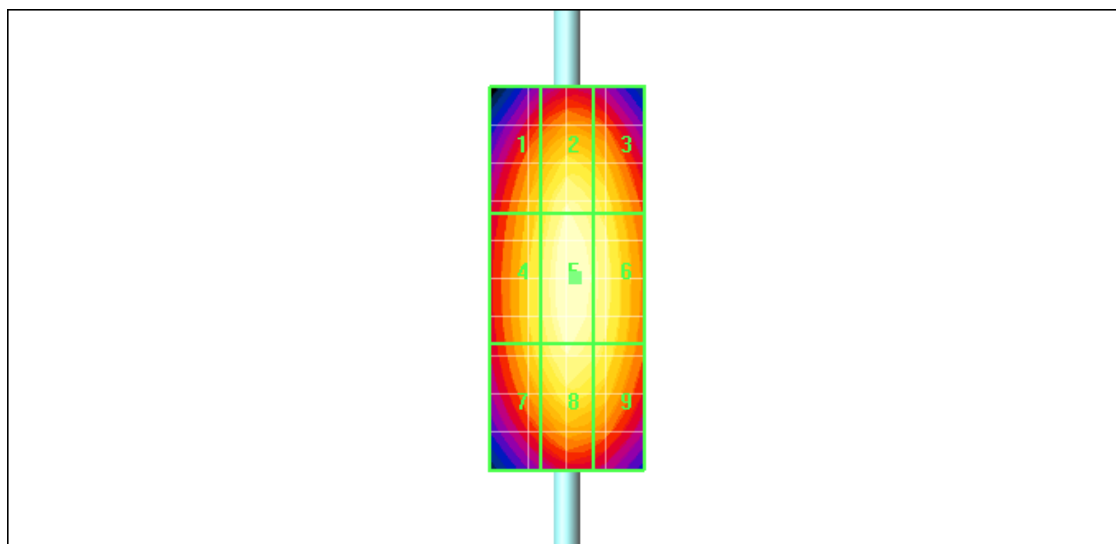
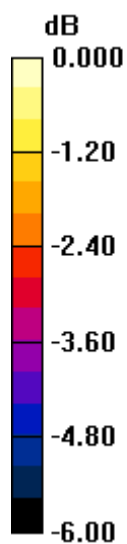
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.100 A/m; Power Drift = -0.016 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.085 M4	Grid 2 0.092 M4	Grid 3 0.089 M4
Grid 4 0.088 M4	Grid 5 0.095 M4	Grid 6 0.092 M4
Grid 7 0.086 M4	Grid 8 0.092 M4	Grid 9 0.089 M4

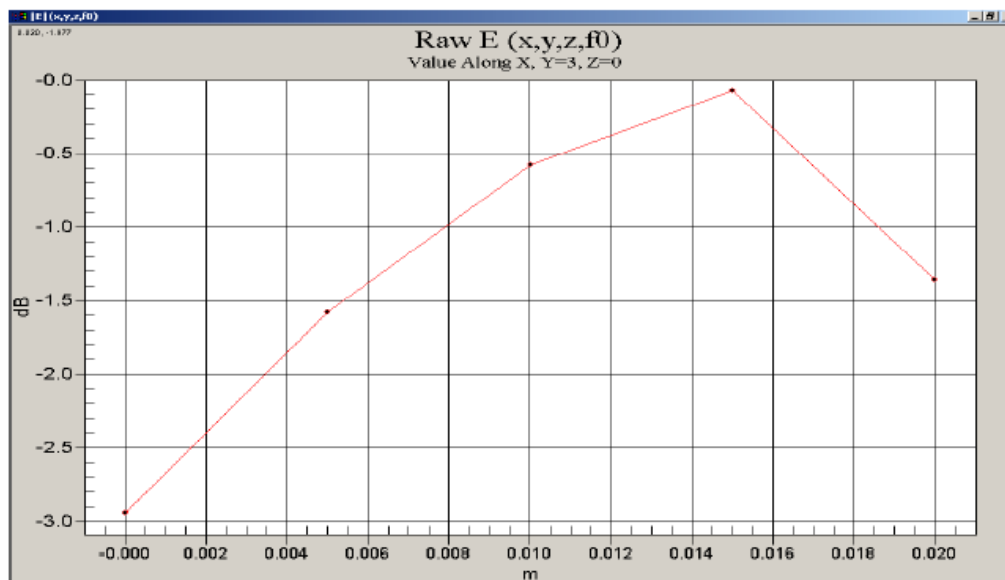


0 dB = 0.095 A/m

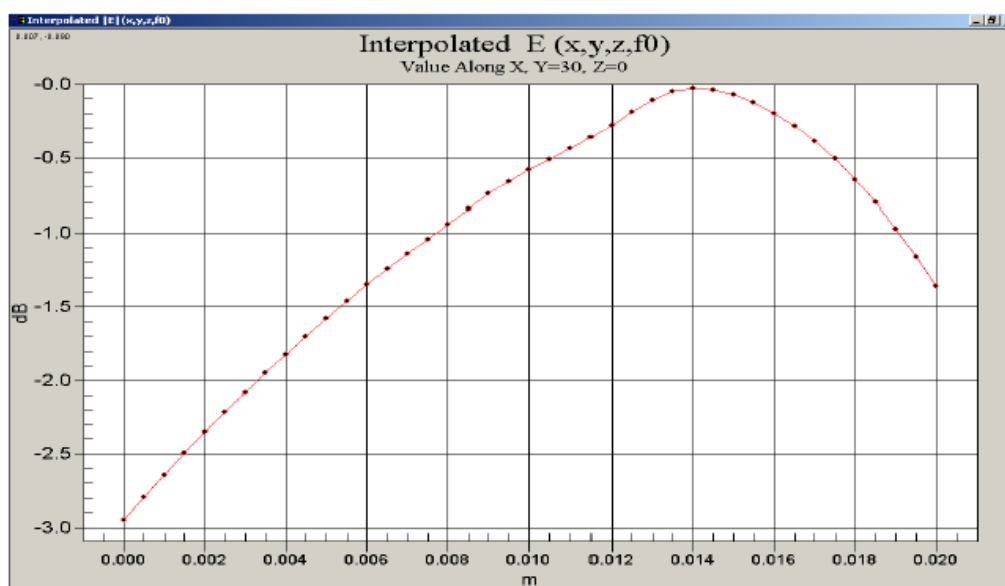
	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			70 (143)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 12-20, 2010	RTS-2671-1005-35	L6ARDA70UW	

Justification of Step Size and Interpolation


This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

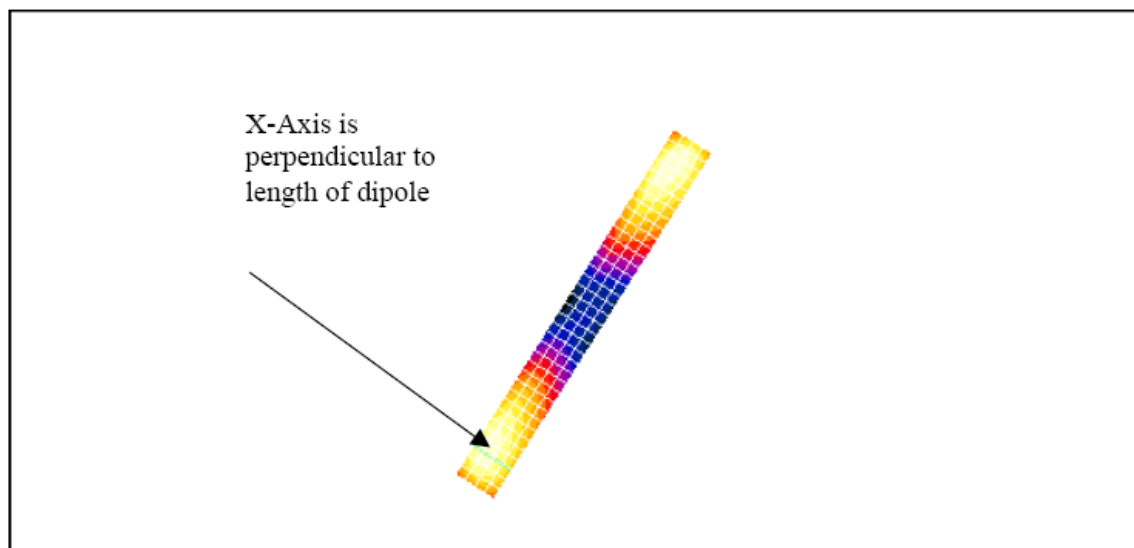


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 71 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW



The green line in this figure shows the axis along which the points lie.

Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types ($< 0.4\%$ for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 72 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35

Date/Time: 14/07/2005 11:35:24 AM

Page 1 of 2

Date/Time: 14/07/2005 11:35:24 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total (measured) = 134.8 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 131.0 V/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

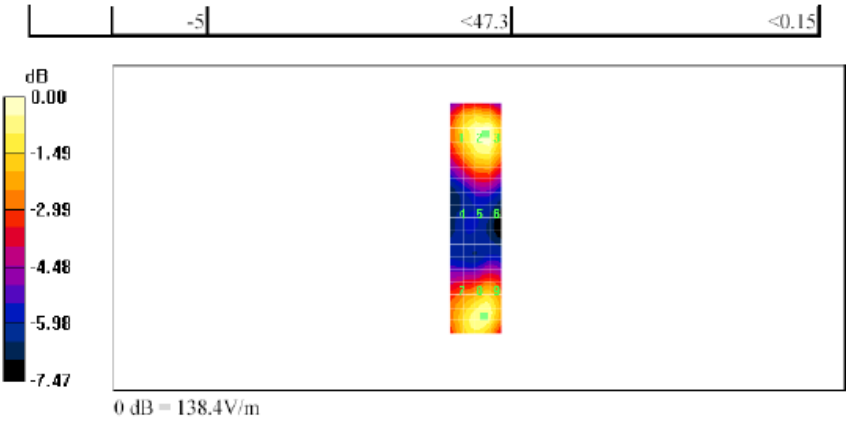
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005


	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			73 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW	

Date/Time: 14/07/2005 11:35:24 AM

Page 2 of 2



file:///C:/Program%20Files/DASY4/Print_Templates/Dipole%20Validation%201880%20... 14/07/2005

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 74 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35
		FCC ID L6ARDA70UW	

Date/Time: 14/07/2005 11:44:51 AM

Page 1 of 2

Date/Time: 14/07/2005 11:44:51 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 138.0 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 131.2 V/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

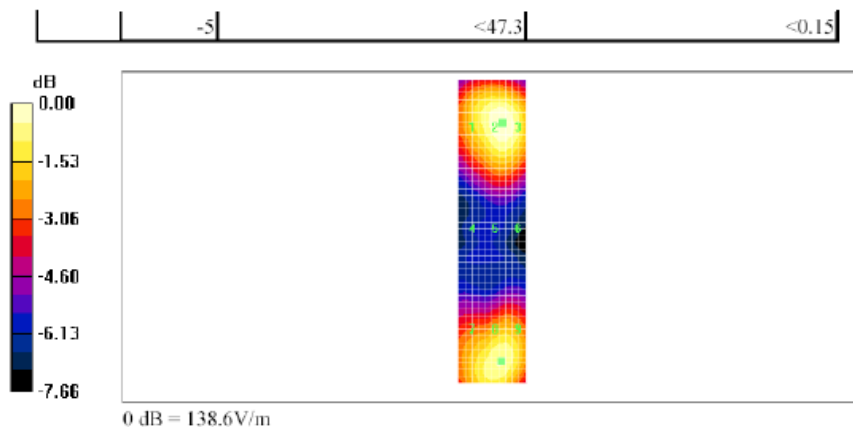
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 75 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 14/07/2005 11:44:51 AM

Page 2 of 2



file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			76 (143)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	April 12-20, 2010	RTS-2671-1005-35	L6ARDA70UW	

Date/Time: 14/07/2005 12:43:02 PM

Page 1 of 2

Date/Time: 14/07/2005 12:43:02 PM

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of Total field (slot averaged) = 0.406 A/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

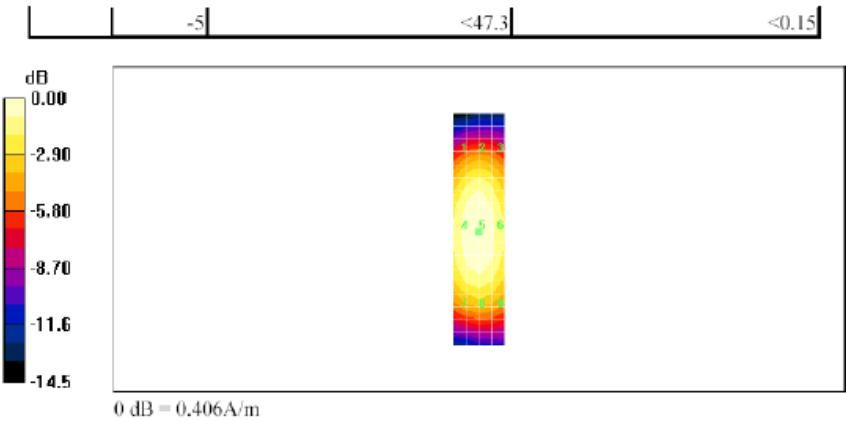
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_5%... 14/07/2005


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 77 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 14/07/2005 12:43:02 PM

Page 2 of 2



file:///C:/Program%20Files/DASY4/Print_Templates/HAC_H_Dipole_CW%201880_5%... 14/07/2005

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 78 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 14/07/2005 12:53:40 PM

Page 1 of 2

Date/Time: 14/07/2005 12:53:40 PM

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 0.406 A/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.348	0.347	0.361	0.348
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.394	0.406	0.391	0.394	0.406	0.391
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.367	0.380	0.365	0.367	0.380	0.365

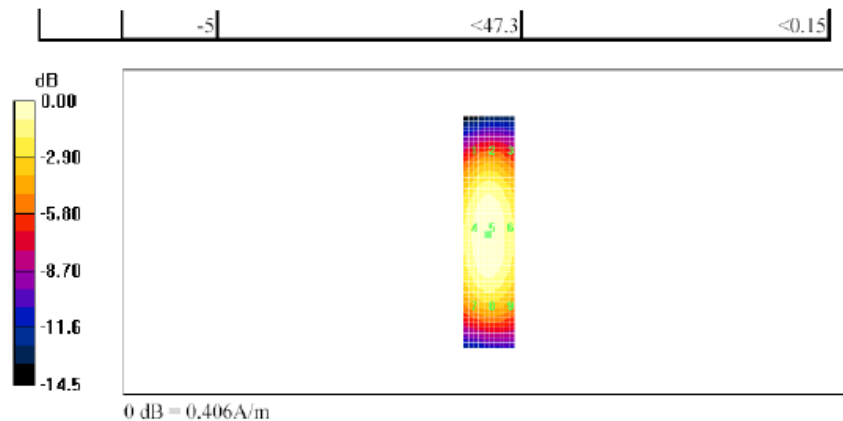
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 79 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 14/07/2005 12:53:40 PM

Page 2 of 2



file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 80 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 6:14:19 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_low_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 76.1 V/m; Power Drift = 0.000 dB

Maximum value of Total (measured) = 58.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 170.8 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 81 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.90

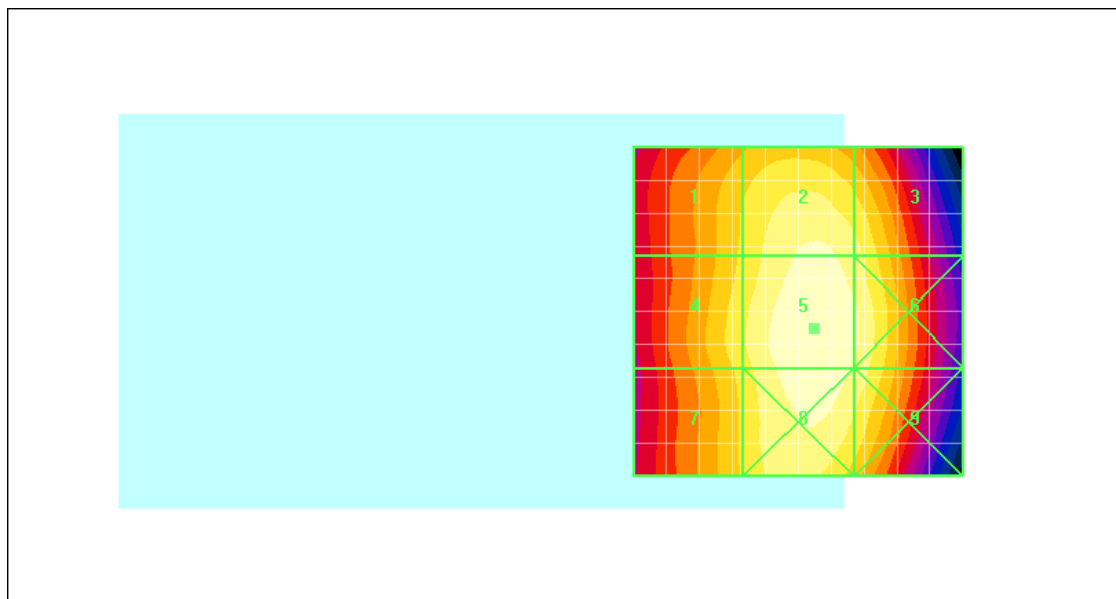
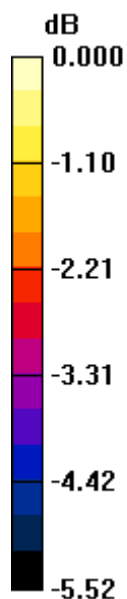
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 76.1 V/m; Power Drift = 0.000 dB


Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1 151.8 M3	Grid 2 165.4 M3	Grid 3 159.8 M3
Grid 4 155.9 M3	Grid 5 170.8 M3	Grid 6 165.1 M3
Grid 7 153.5 M3	Grid 8 169.0 M3	Grid 9 162.8 M3



0 dB = 170.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 82 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 6:25:22 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_mid_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.5 V/m; Power Drift = -0.066 dB

Maximum value of Total (measured) = 67.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 197.1 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 83 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.90

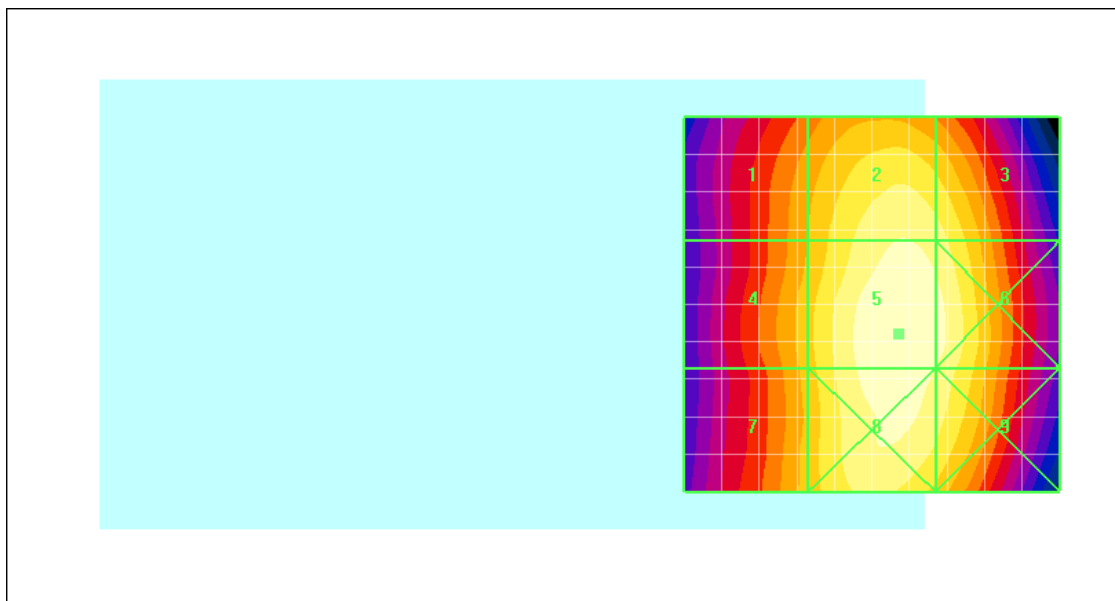
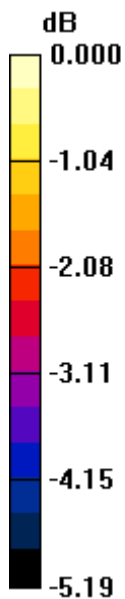
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.5 V/m; Power Drift = -0.066 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 168.6 M3	Grid 2 189.8 M3	Grid 3 185.8 M3
Grid 4 173.1 M3	Grid 5 197.1 M3	Grid 6 192.7 M3
Grid 7 171.7 M3	Grid 8 194.8 M3	Grid 9 189.3 M3



0 dB = 197.1V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 84 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 6:42:44 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_high_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.2 V/m; Power Drift = -0.015 dB

Maximum value of Total (measured) = 68.0 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 197.5 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 85 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.90

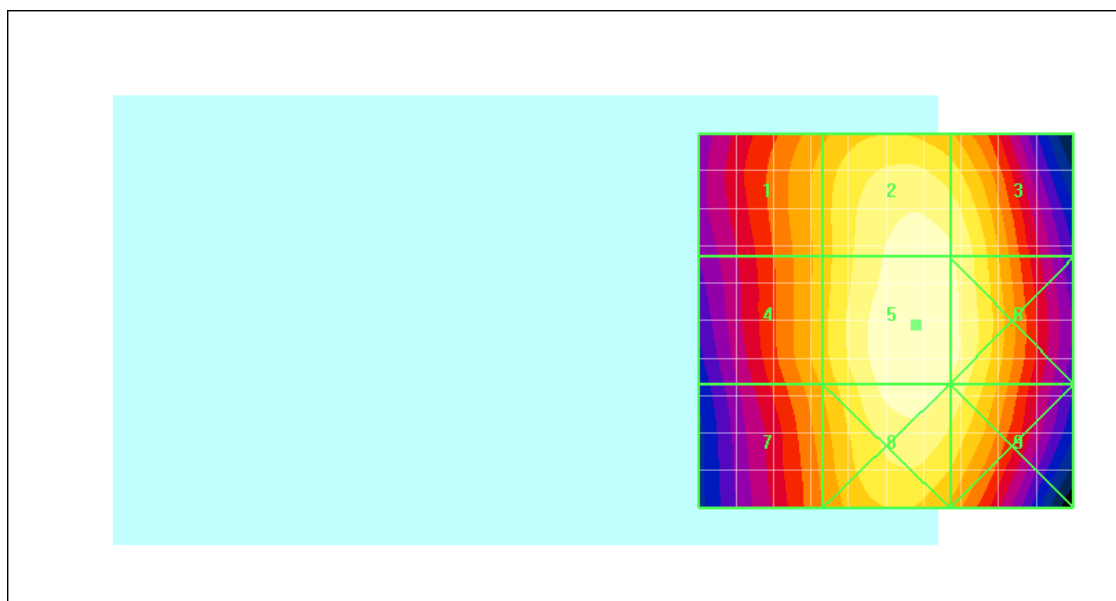
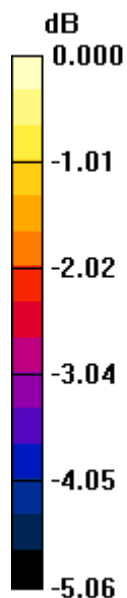
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 87.2 V/m; Power Drift = -0.015 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 173.1 M3	Grid 2 193.9 M3	Grid 3 191.3 M3
Grid 4 173.8 M3	Grid 5 197.5 M3	Grid 6 193.0 M3
Grid 7 170.2 M3	Grid 8 194.5 M3	Grid 9 189.0 M3



0 dB = 197.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 86 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 7:24:20 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM850_high_Chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 92.1 V/m; Power Drift = 0.108 dB

Maximum value of Total (measured) = 72.9 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 211.8 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 87 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.90

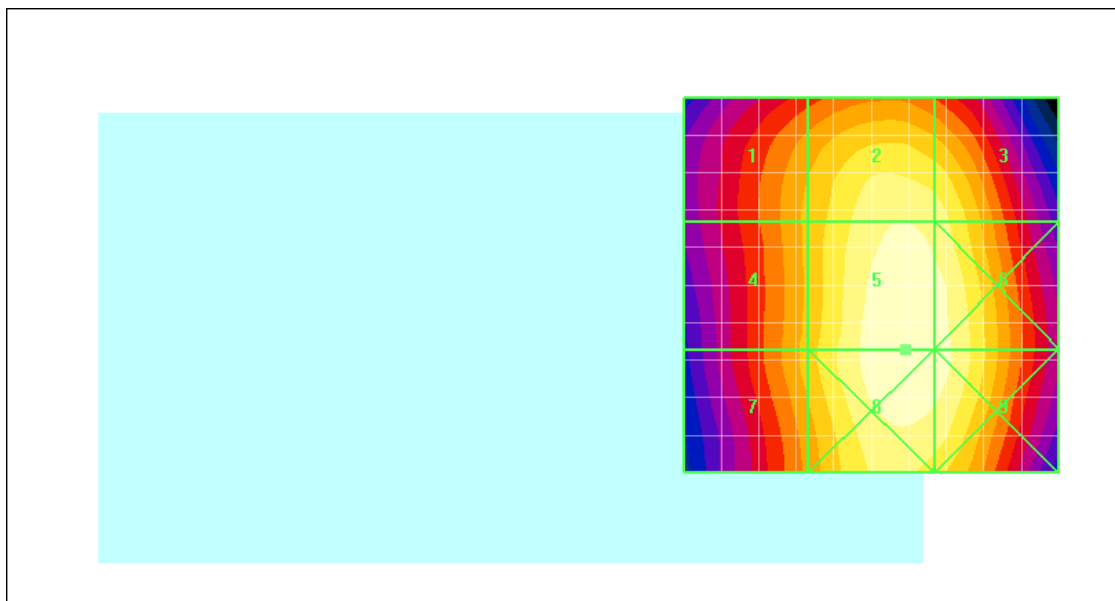
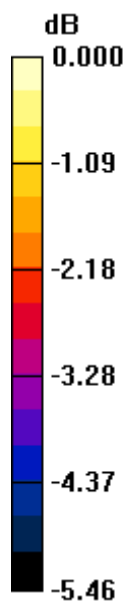
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 92.1 V/m; Power Drift = 0.108 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 181.2 M3	Grid 2 203.2 M3	Grid 3 199.6 M3
Grid 4 182.7 M3	Grid 5 211.8 M3	Grid 6 208.5 M3
Grid 7 182.8 M3	Grid 8 211.8 M3	Grid 9 208.6 M3



0 dB = 211.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 88 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 6:54:07 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_low_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.2 V/m; Power Drift = 0.129 dB

Maximum value of Total (measured) = 25.9 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 54.2 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 89 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

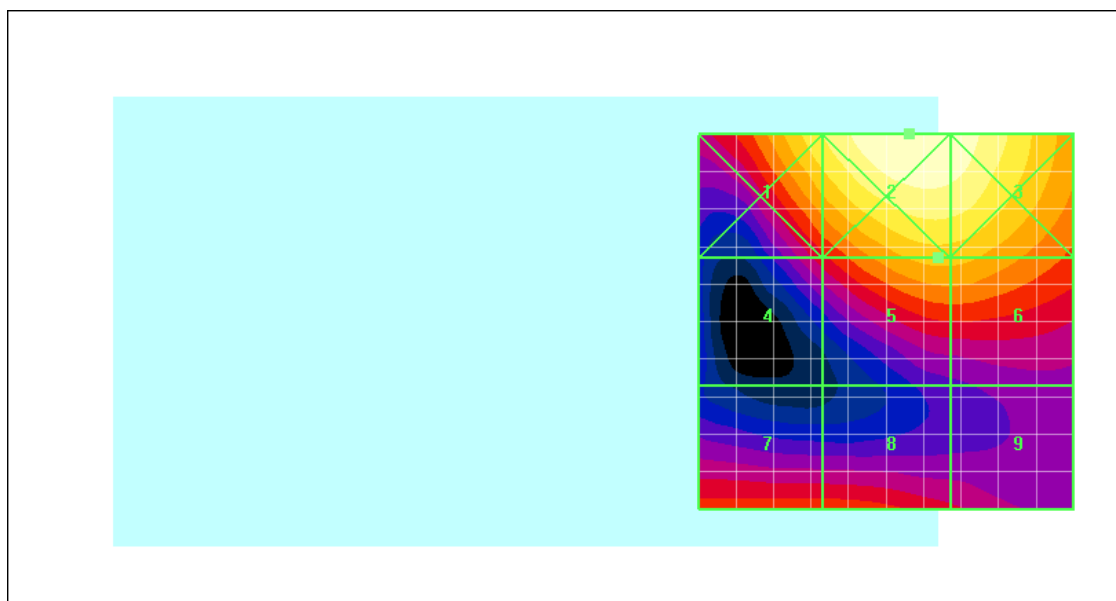
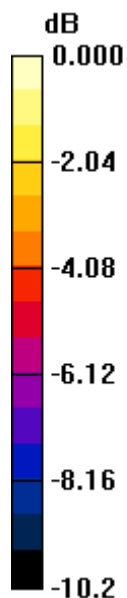
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.2 V/m; Power Drift = 0.129 dB


Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak E-field in V/m

Grid 1 61.4 M3	Grid 2 71.8 M3	Grid 3 70.2 M3
Grid 4 40.4 M4	Grid 5 54.2 M3	Grid 6 54.0 M3
Grid 7 43.8 M4	Grid 8 43.8 M4	Grid 9 39.3 M4



0 dB = 71.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 90 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 7:01:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_mid_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.6 V/m; Power Drift = -0.176 dB

Maximum value of Total (measured) = 29.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 63.8 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 91 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

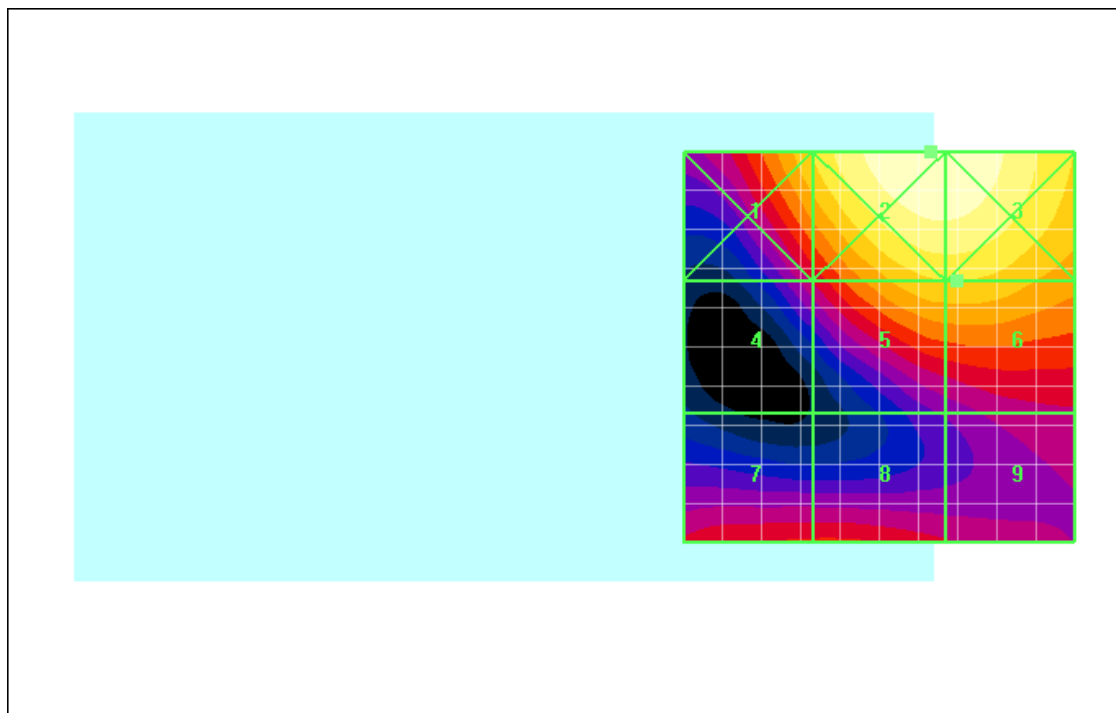
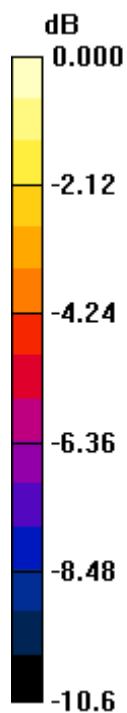
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.6 V/m; Power Drift = -0.176 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 64.3 M3	Grid 2 81.4 M3	Grid 3 81.2 M3
Grid 4 42.7 M4	Grid 5 63.7 M3	Grid 6 63.8 M3
Grid 7	Grid 8	Grid 9



0 dB = 81.4V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 92 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 7:07:16 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_high_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.8 V/m; Power Drift = -0.021 dB

Maximum value of Total (measured) = 27.6 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 63.3 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 93 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

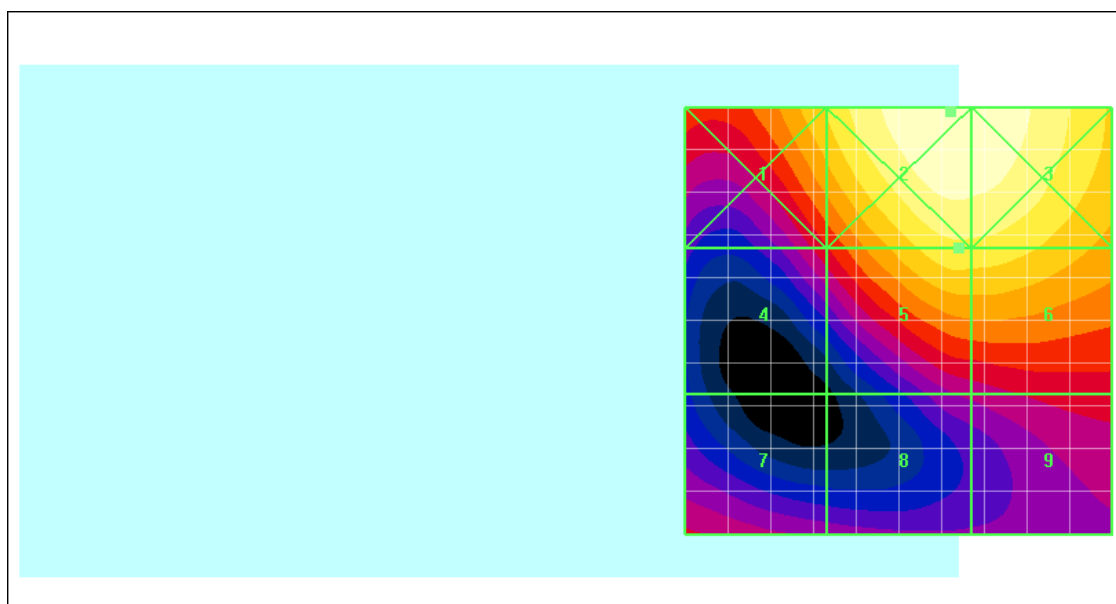
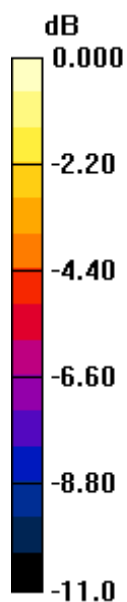
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.8 V/m; Power Drift = -0.021 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 60.2 M3	Grid 2 76.7 M3	Grid 3 76.1 M3
Grid 4 42.1 M4	Grid 5 63.3 M3	Grid 6 63.2 M3
Grid 7 39.9 M4	Grid 8 36.9 M4	Grid 9 40.9 M4



0 dB = 76.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 94 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 7:31:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_GSM1900_mid_Chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.7 V/m; Power Drift = 0.097 dB

Maximum value of Total (measured) = 28.9 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.1 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 95 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

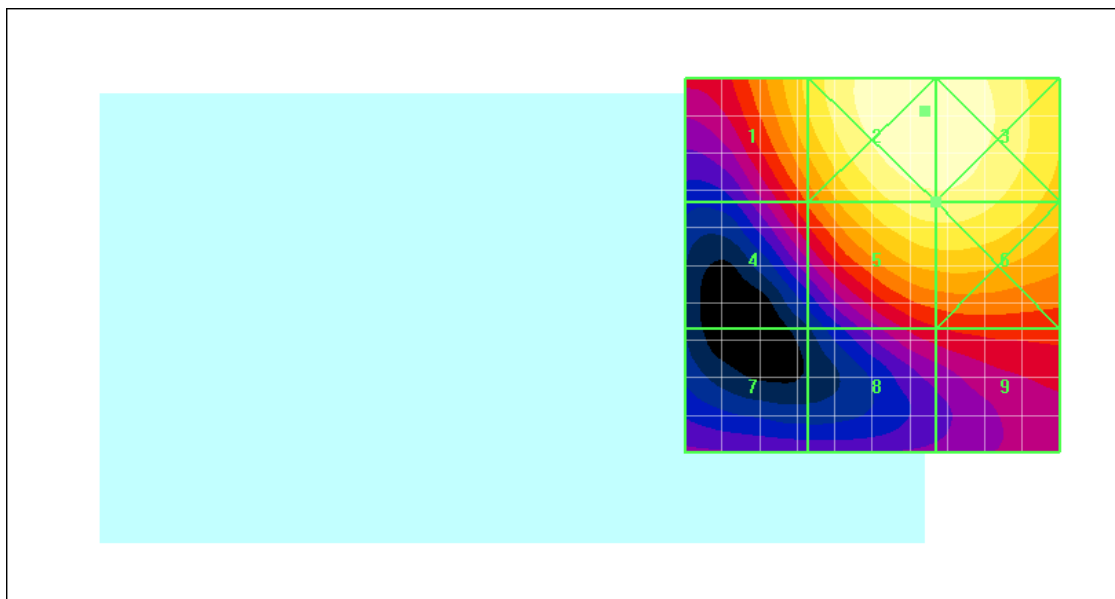
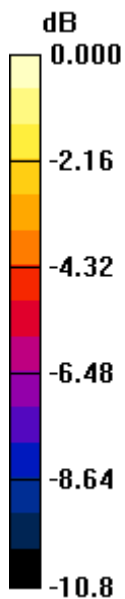
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.7 V/m; Power Drift = 0.097 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 64.6 M3	Grid 2 80.5 M3	Grid 3 80.3 M3
Grid 4 49.8 M3	Grid 5 72.1 M3	Grid 6 72.1 M3
Grid 7 36.1 M4	Grid 8 44.5 M4	Grid 9 46.7 M4



0 dB = 80.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 96 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 7:32:58 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_V_low_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.4 V/m; Power Drift = -0.008 dB

Maximum value of Total (measured) = 74.9 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 74.4 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 97 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

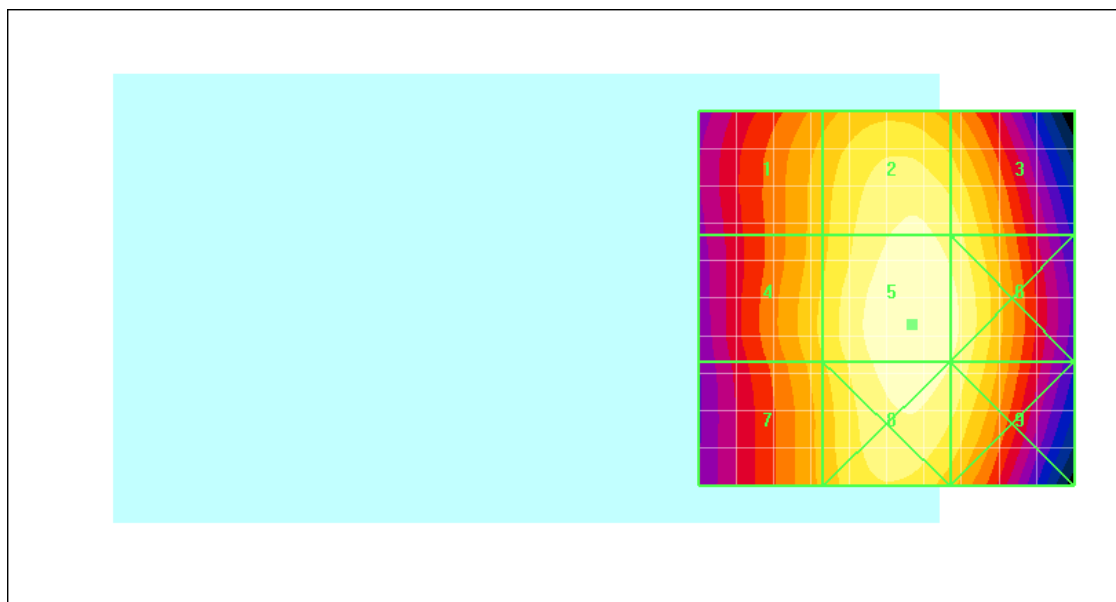
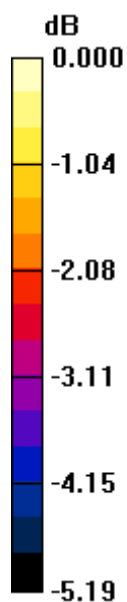
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 96.4 V/m; Power Drift = -0.008 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 65.3 M4	Grid 2 72.2 M4	Grid 3 70.3 M4
Grid 4 66.8 M4	Grid 5 74.4 M4	Grid 6 72.6 M4
Grid 7 65.7 M4	Grid 8 73.5 M4	Grid 9 71.5 M4



0 dB = 74.4V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 98 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 7:40:44 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_V_mid_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 109.0 V/m; Power Drift = 0.034 dB

Maximum value of Total (measured) = 85.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 85.0 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 99 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

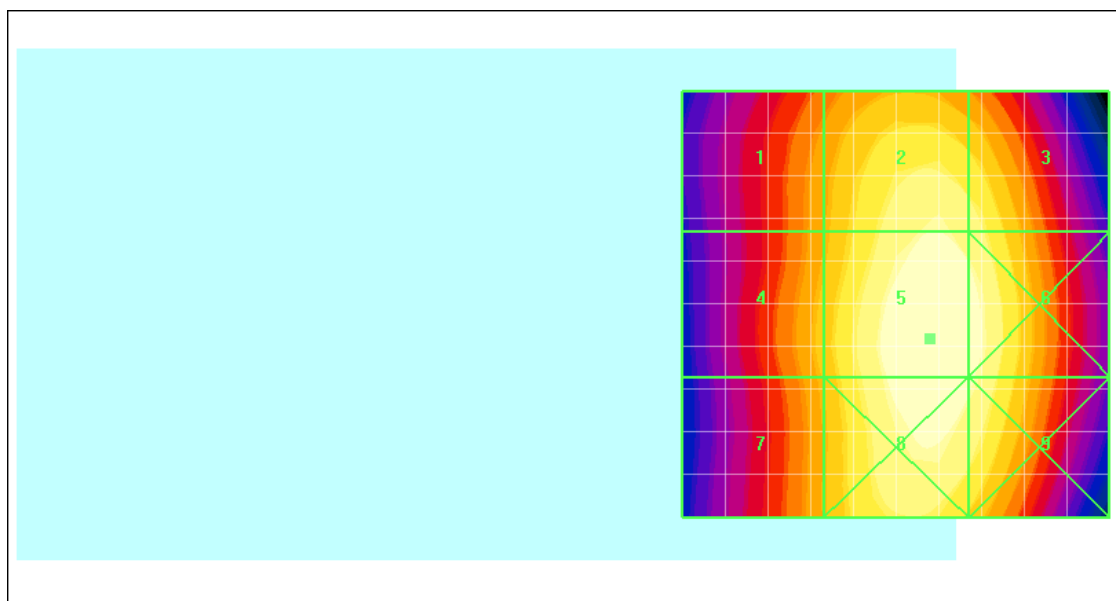
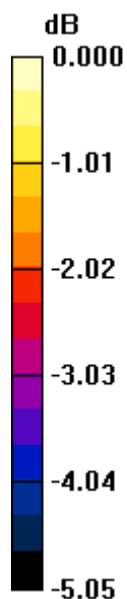
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 109.0 V/m; Power Drift = 0.034 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 72.1 M4	Grid 2 81.8 M4	Grid 3 80.4 M4
Grid 4 74.0 M4	Grid 5 85.0 M4	Grid 6 83.4 M4
Grid 7 73.2 M4	Grid 8 84.2 M4	Grid 9 82.4 M4



0 dB = 85.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 100 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 7:52:34 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_V_high_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.5 V/m; Power Drift = -0.027 dB

Maximum value of Total (measured) = 90.5 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 101 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 89.9 V/m

Probe Modulation Factor = 0.990

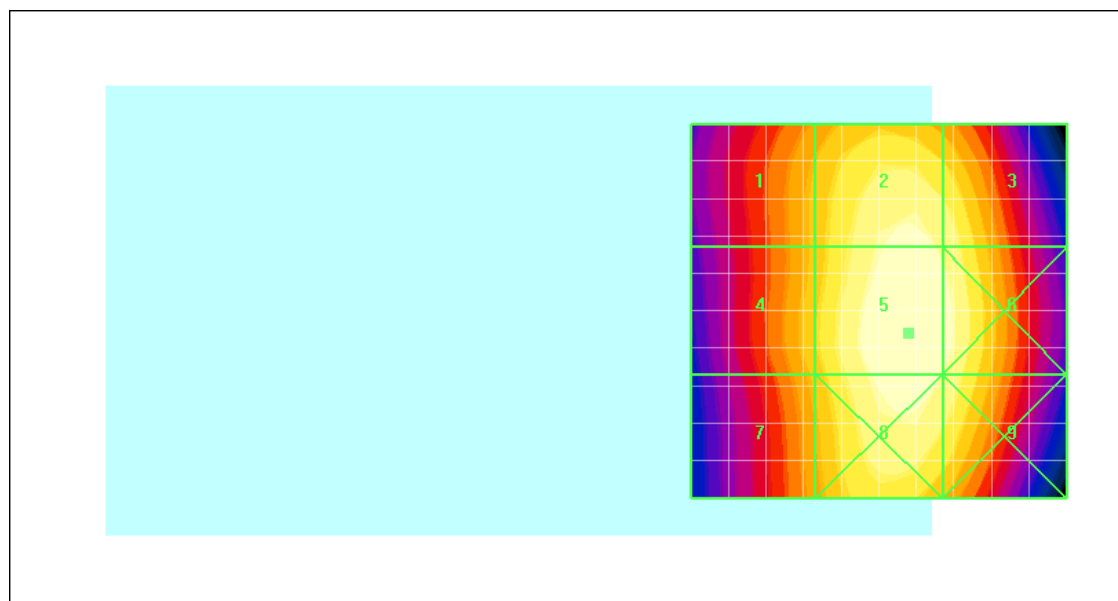
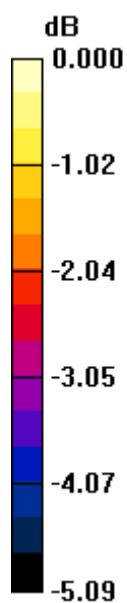
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.5 V/m; Power Drift = -0.027 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 77.9 M4	Grid 2 87.5 M4	Grid 3 85.9 M4
Grid 4 79.2 M4	Grid 5 89.9 M4	Grid 6 87.9 M4
Grid 7 77.8 M4	Grid 8 88.5 M4	Grid 9 86.3 M4



0 dB = 89.9V/m

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			102 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW	

Date/Time: 4/20/2010 7:42:28 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_V_high_Chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.1 V/m; Power Drift = -0.079 dB

Maximum value of Total (measured) = 90.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 89.5 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 103 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

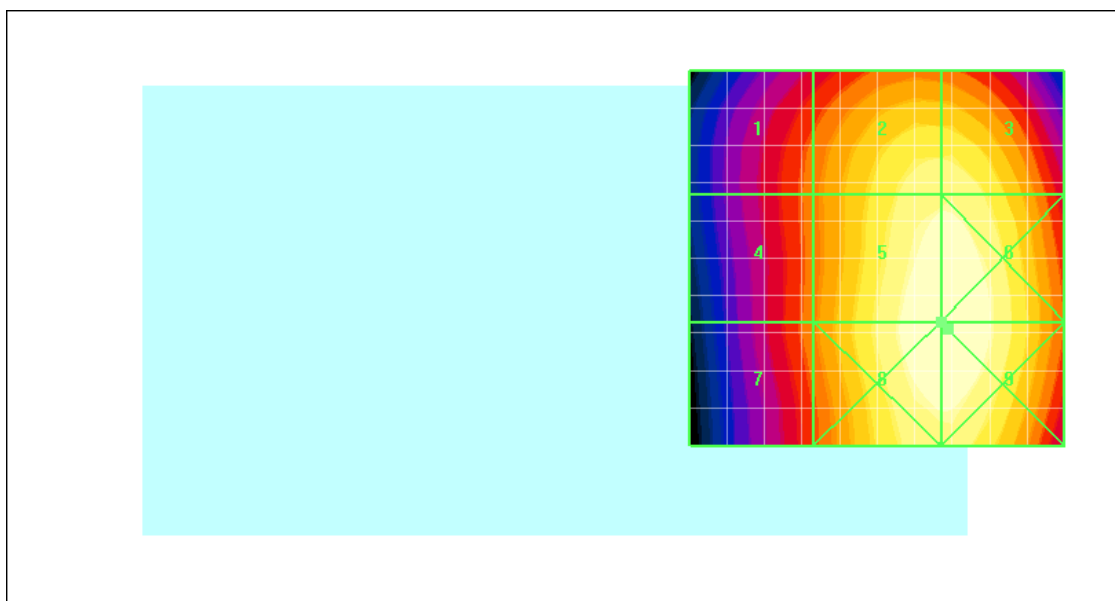
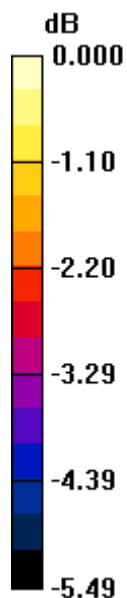
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.1 V/m; Power Drift = -0.079 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 71.1 M4	Grid 2 85.0 M4	Grid 3 85.0 M4
Grid 4 71.6 M4	Grid 5 89.5 M4	Grid 6 89.5 M4
Grid 7 71.6 M4	Grid 8 89.5 M4	Grid 9 89.6 M4



0 dB = 89.6V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 104 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 8:02:35 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_II_low_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.2 V/m; Power Drift = -0.058 dB

Maximum value of Total (measured) = 30.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 22.0 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 105 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.950

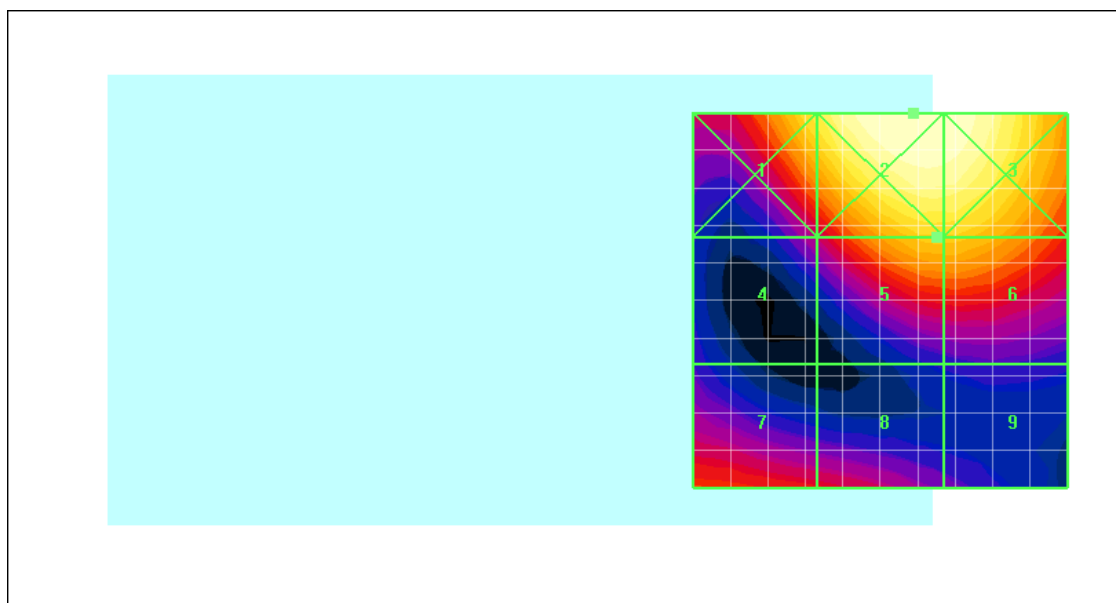
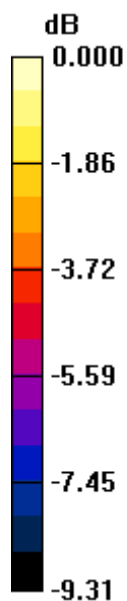
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.2 V/m; Power Drift = -0.058 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 23.7 M4	Grid 2 28.6 M4	Grid 3 28.2 M4
Grid 4 15.5 M4	Grid 5 22.0 M4	Grid 6 22.0 M4
Grid 7 17.9 M4	Grid 8 16.8 M4	Grid 9 13.8 M4



0 dB = 28.6V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 106 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 8:33:17 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_II_mid_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.8 V/m; Power Drift = -0.159 dB

Maximum value of Total (measured) = 33.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 25.1 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 107 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.950

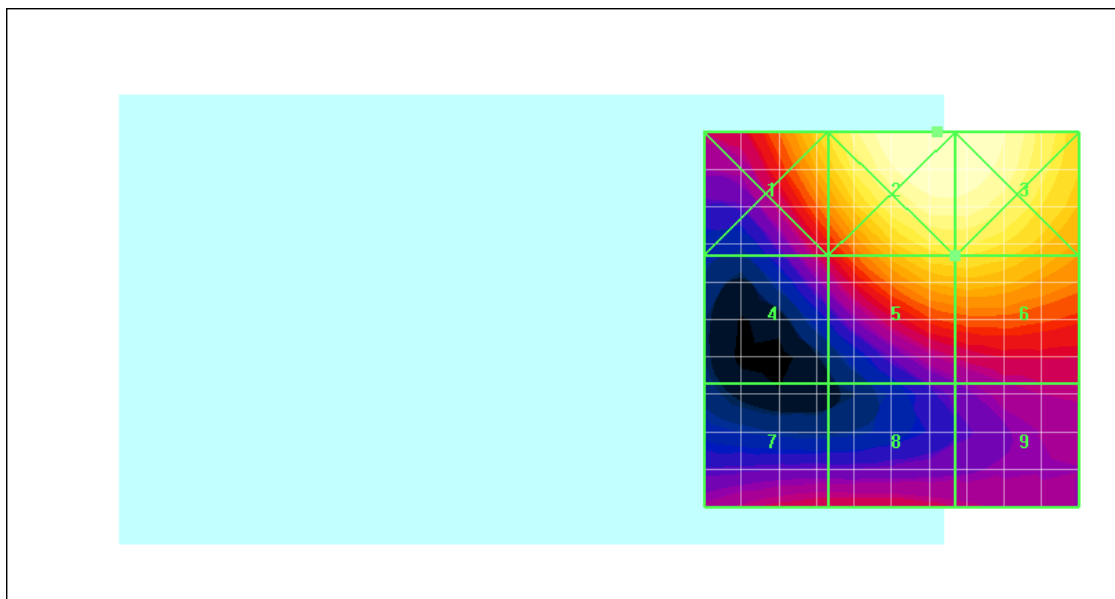
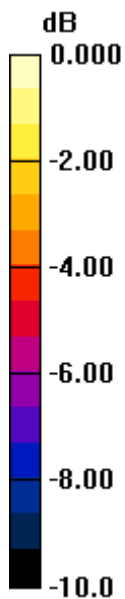
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.8 V/m; Power Drift = -0.159 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 25.2 M4	Grid 2 31.7 M4	Grid 3 31.5 M4
Grid 4 17.4 M4	Grid 5 25.1 M4	Grid 6 25.1 M4
Grid 7 17.2 M4	Grid 8 17.2 M4	Grid 9 16.4 M4



0 dB = 31.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 108 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 8:49:14 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_II_high_Chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 24.4 V/m; Power Drift = 0.038 dB

Maximum value of Total (measured) = 35.0 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 109 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Maximum value of peak Total field = 28.0 V/m

Probe Modulation Factor = 0.950

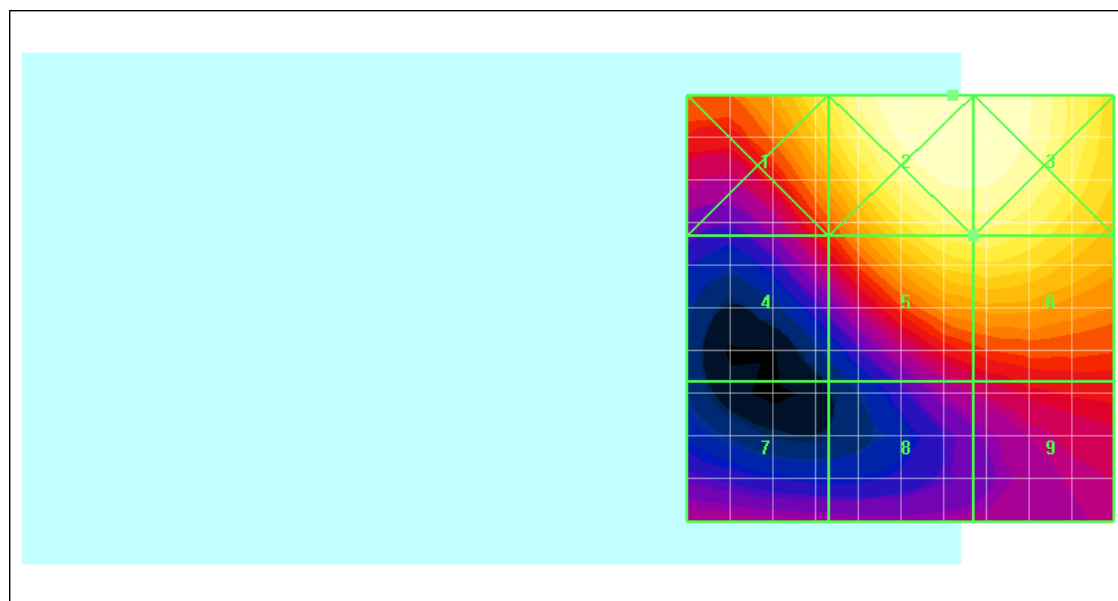
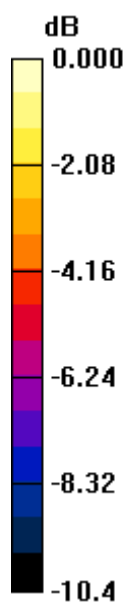
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 24.4 V/m; Power Drift = 0.038 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 27.2 M4	Grid 2 33.3 M4	Grid 3 33.1 M4
Grid 4 19.4 M4	Grid 5 28.0 M4	Grid 6 28.0 M4
Grid 7 16.2 M4	Grid 8 17.2 M4	Grid 9 18.8 M4



0 dB = 33.3V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 110 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 7:50:00 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_E_UMTS_Band_II_high_Chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF ER3D Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.7 V/m; Power Drift = -0.005 dB

Maximum value of Total (measured) = 34.0 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 29.3 V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 111 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.950

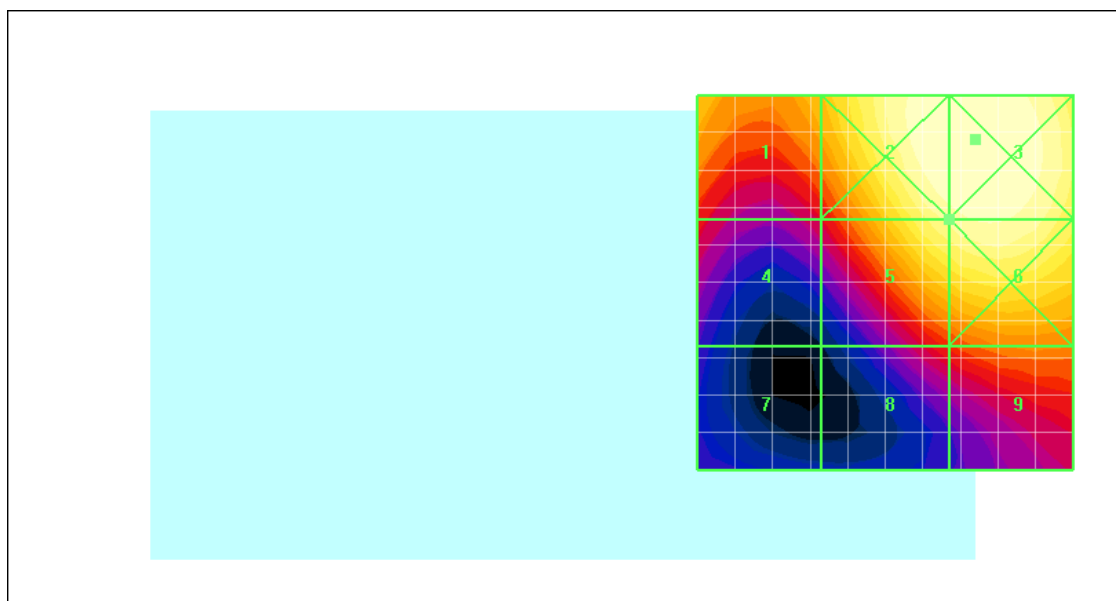
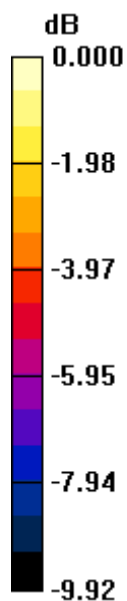
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.7 V/m; Power Drift = -0.005 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 23.9 M4	Grid 2 32.1 M4	Grid 3 32.5 M4
Grid 4 18.8 M4	Grid 5 29.3 M4	Grid 6 30.3 M4
Grid 7 14.1 M4	Grid 8 19.4 M4	Grid 9 21.5 M4



0 dB = 32.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 112 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:02:42 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_low_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.062 A/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 0.124 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.326 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 113 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

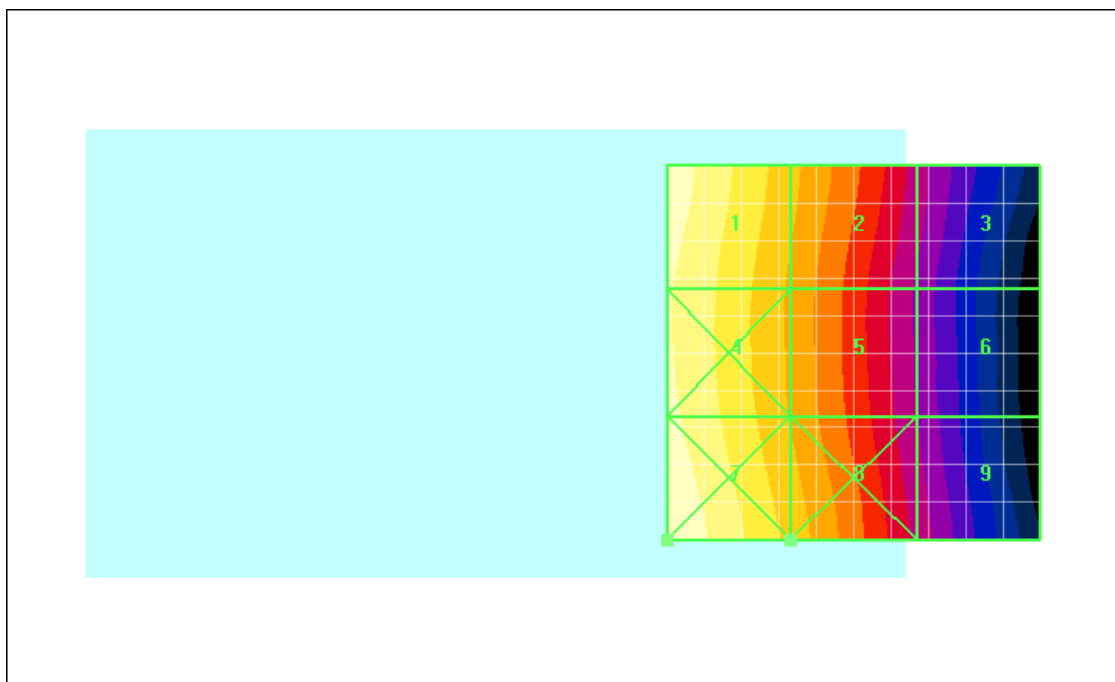
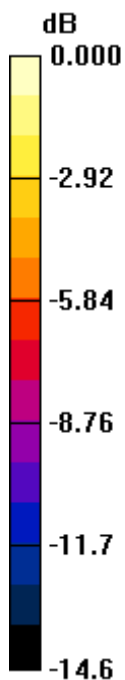
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.062 A/m; Power Drift = 0.052 dB


Hearing Aid Near-Field Category: **M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 0.326 M4	Grid 2 0.227 M4	Grid 3 0.133 M4
Grid 4 0.316 M4	Grid 5 0.218 M4	Grid 6 0.126 M4
Grid 7 0.342 M4	Grid 8 0.236 M4	Grid 9 0.136 M4



0 dB = 0.342A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 114 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:12:56 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_mid_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.072 A/m; Power Drift = -0.021 dB

Maximum value of Total (measured) = 0.141 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.383 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 115 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

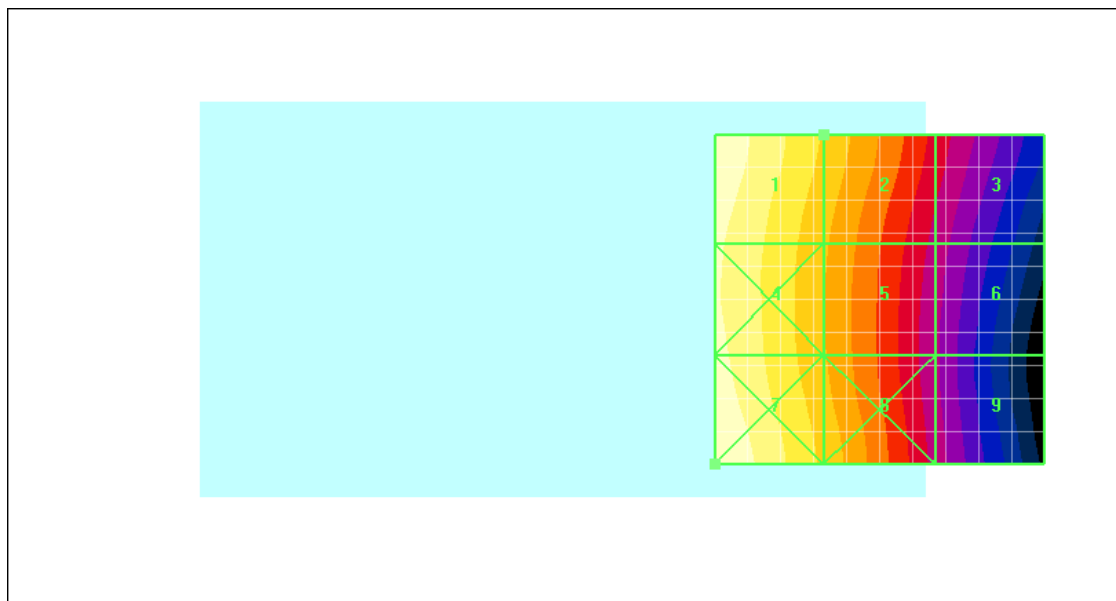
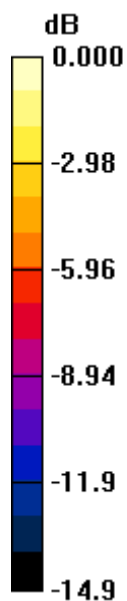
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.072 A/m; Power Drift = -0.021 dB


Hearing Aid Near-Field Category: **M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 0.383 M4	Grid 2 0.274 M4	Grid 3 0.169 M4
Grid 4 0.362 M4	Grid 5 0.252 M4	Grid 6 0.151 M4
Grid 7 0.390 M4	Grid 8 0.270 M4	Grid 9 0.150 M4



0 dB = 0.390A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 116 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:21:15 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_high_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = 0.105 dB

Maximum value of Total (measured) = 0.164 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.398 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 117 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

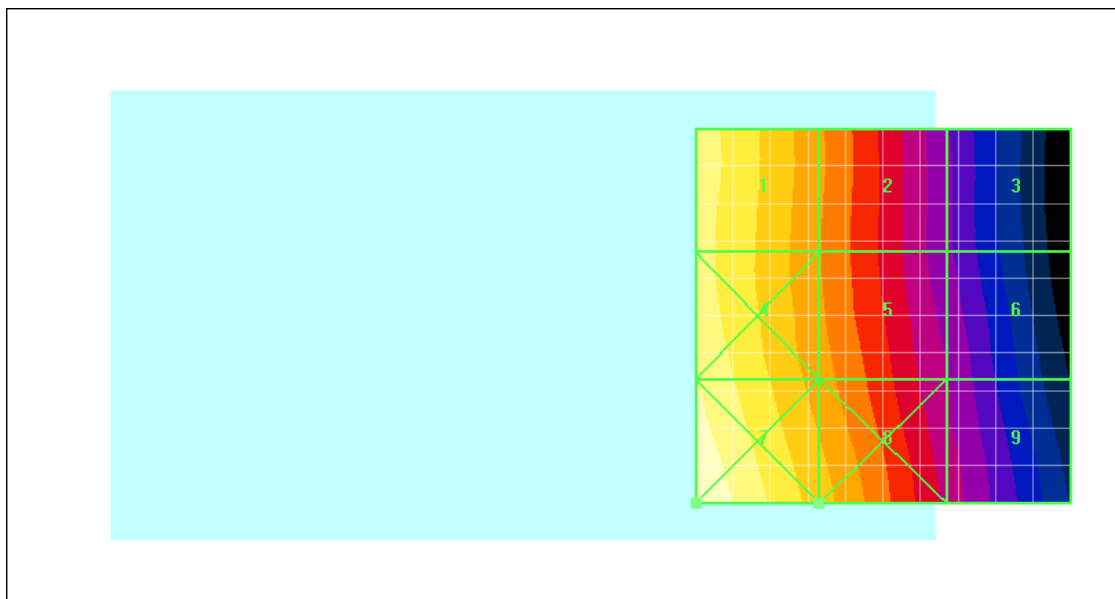
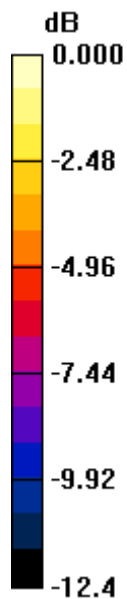
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = 0.105 dB


Hearing Aid Near-Field Category: **M4 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 0.398 M4	Grid 2 0.289 M4	Grid 3 0.181 M4
Grid 4 0.414 M4	Grid 5 0.298 M4	Grid 6 0.195 M4
Grid 7 0.456 M3	Grid 8 0.327 M4	Grid 9 0.207 M4



0 dB = 0.456A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 118 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 6:03:56 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_850_high_chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = -0.050 dB

Maximum value of Total (measured) = 0.161 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.408 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 119 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.77

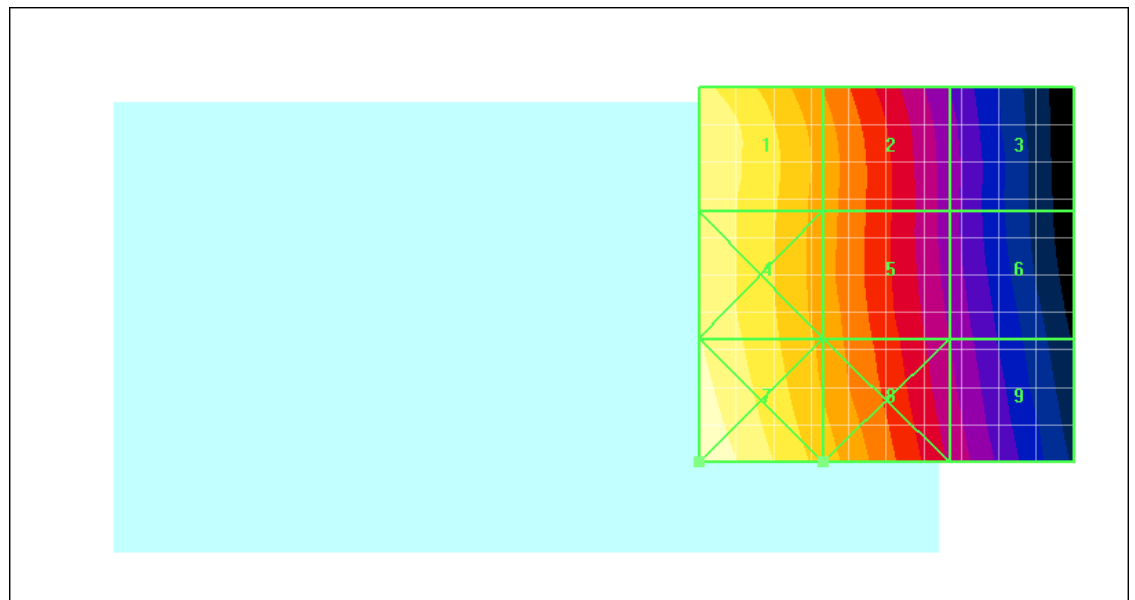
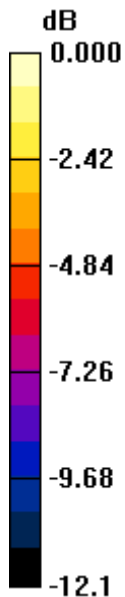
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = -0.050 dB


Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.408 M4	Grid 2 0.298 M4	Grid 3 0.185 M4
Grid 4 0.409 M4	Grid 5 0.301 M4	Grid 6 0.194 M4
Grid 7 0.447 M4	Grid 8 0.326 M4	Grid 9 0.210 M4



0 dB = 0.447A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 120 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:29:11 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_low_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.105 dB

Maximum value of Total (measured) = 0.083 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.159 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 121 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.54

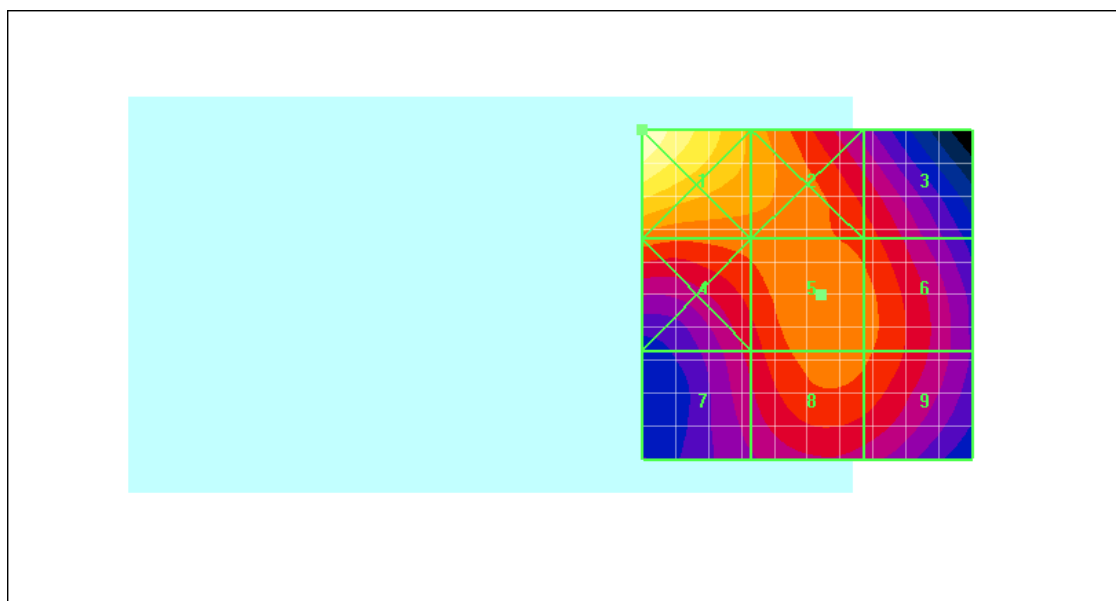
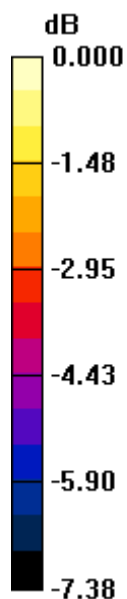
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.105 dB


Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 0.211 M3	Grid 2 0.166 M3	Grid 3 0.146 M3
Grid 4 0.155 M3	Grid 5 0.159 M3	Grid 6 0.154 M3
Grid 7 0.138 M4	Grid 8 0.156 M3	Grid 9 0.152 M3



0 dB = 0.211A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 122 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:36:21 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_mid_chan.da4](#)

DUT: BlackBerry Smartphone Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 0.093 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.184 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 123 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.54

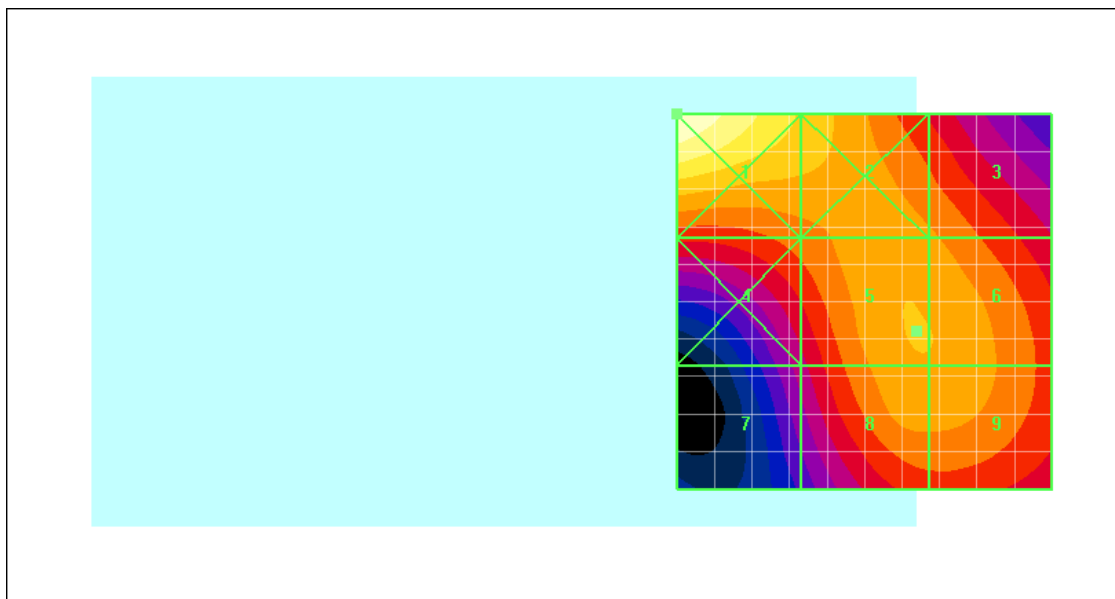
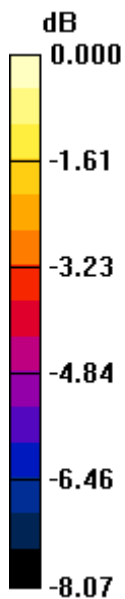
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = -0.006 dB


Hearing Aid Near-Field Category: **M3 (AWF -5 dB)**

Peak H-field in A/m

Grid 1 0.235 M3	Grid 2 0.194 M3	Grid 3 0.175 M3
Grid 4 0.168 M3	Grid 5 0.184 M3	Grid 6 0.184 M3
Grid 7 0.140 M4	Grid 8 0.183 M3	Grid 9 0.183 M3



0 dB = 0.235A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		124 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 10:44:16 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_high_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.206 dB

Maximum value of Total (measured) = 0.092 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 125 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.54

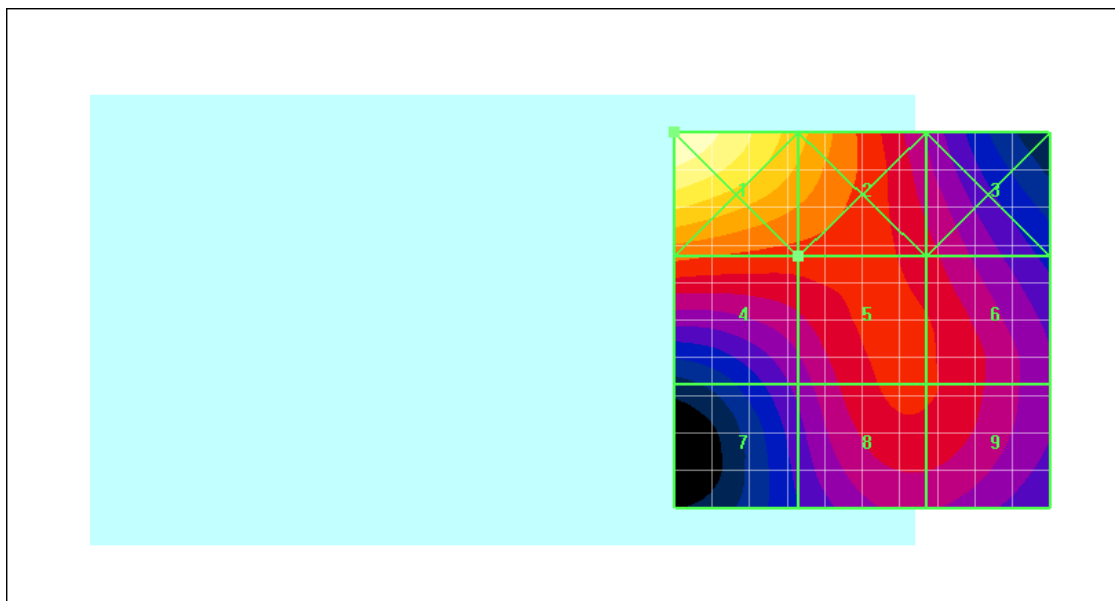
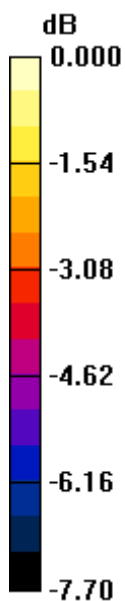
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.206 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.235 M3	Grid 2 0.190 M3	Grid 3 0.150 M3
Grid 4 0.168 M3	Grid 5 0.161 M3	Grid 6 0.157 M3
Grid 7 0.133 M4	Grid 8 0.158 M3	Grid 9 0.157 M3



0 dB = 0.235A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 126 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 6:11:06 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_GSM_1900_mid_chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = -0.059 dB

Maximum value of Total (measured) = 0.100 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.187 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 127 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 2.54

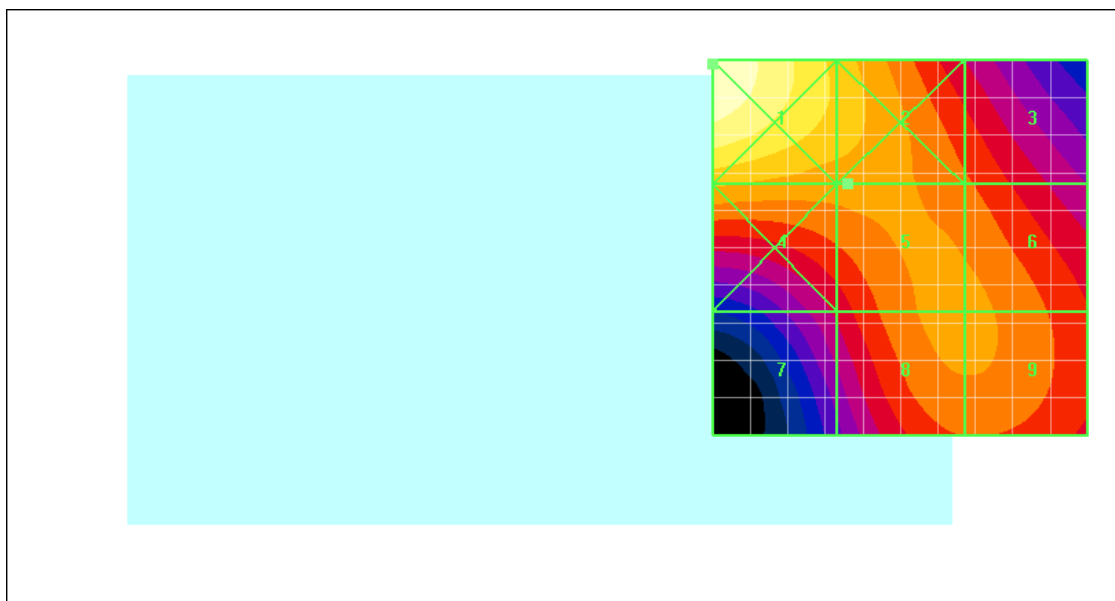
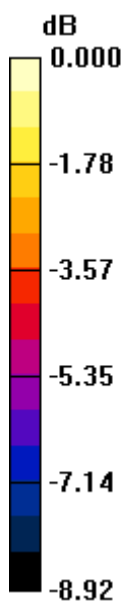
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = -0.059 dB


Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.255 M2	Grid 2 0.205 M3	Grid 3 0.172 M3
Grid 4 0.197 M3	Grid 5 0.187 M3	Grid 6 0.185 M3
Grid 7 0.150 M3	Grid 8 0.185 M3	Grid 9 0.185 M3



0 dB = 0.255A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 128 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:03:02 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_V_low_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.074 A/m; Power Drift = 0.095 dB

Maximum value of Total (measured) = 0.149 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.138 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 129 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.980

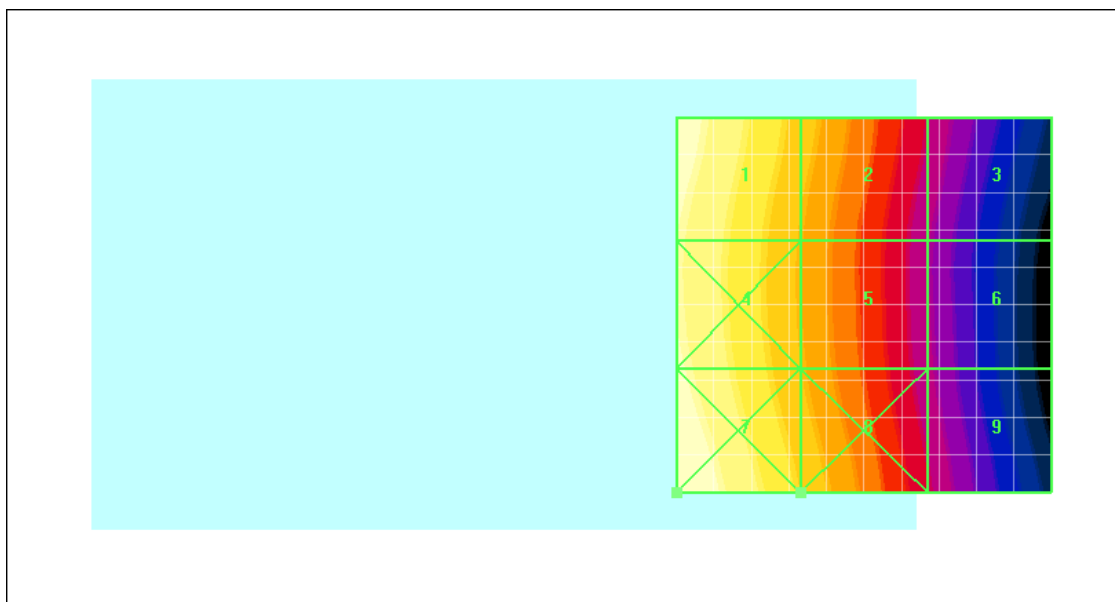
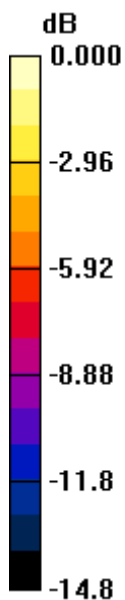
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.074 A/m; Power Drift = 0.095 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.138 M4	Grid 2 0.098 M4	Grid 3 0.058 M4
Grid 4 0.133 M4	Grid 5 0.093 M4	Grid 6 0.054 M4
Grid 7 0.146 M4	Grid 8 0.102 M4	Grid 9 0.059 M4



0 dB = 0.146A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 130 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:17:19 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_V_mid_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.088 A/m; Power Drift = -0.034 dB

Maximum value of Total (measured) = 0.169 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 131 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.980

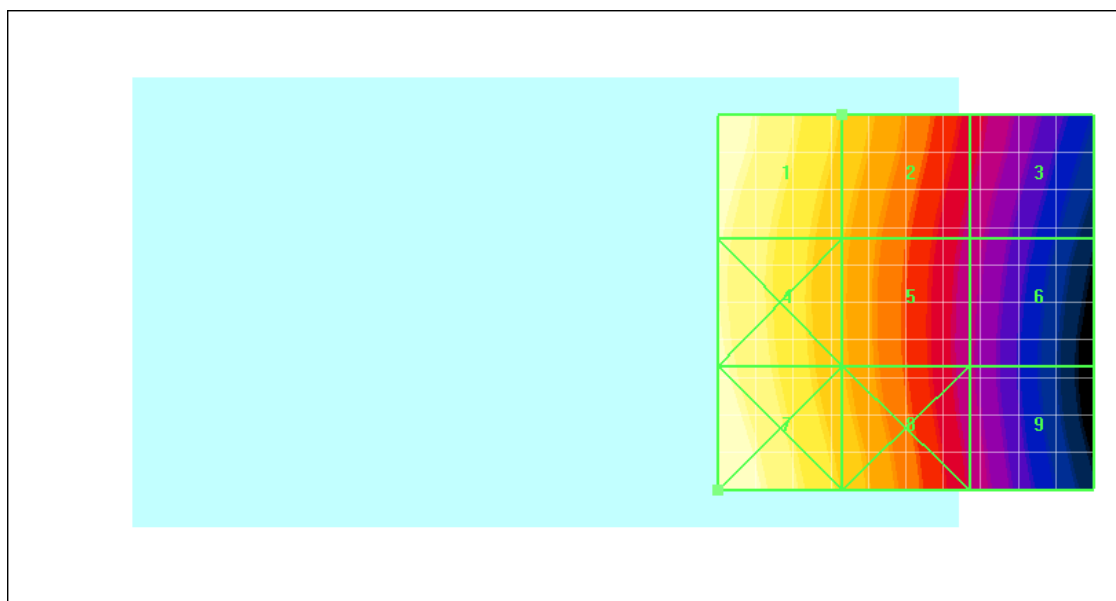
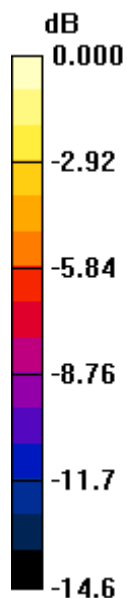
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.088 A/m; Power Drift = -0.034 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.161 M4	Grid 2 0.116 M4	Grid 3 0.072 M4
Grid 4 0.152 M4	Grid 5 0.107 M4	Grid 6 0.065 M4
Grid 7 0.166 M4	Grid 8 0.116 M4	Grid 9 0.067 M4



0 dB = 0.166A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 132 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:27:37 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_V_high_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.105 A/m; Power Drift = 0.026 dB

Maximum value of Total (measured) = 0.198 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.176 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 133 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.980

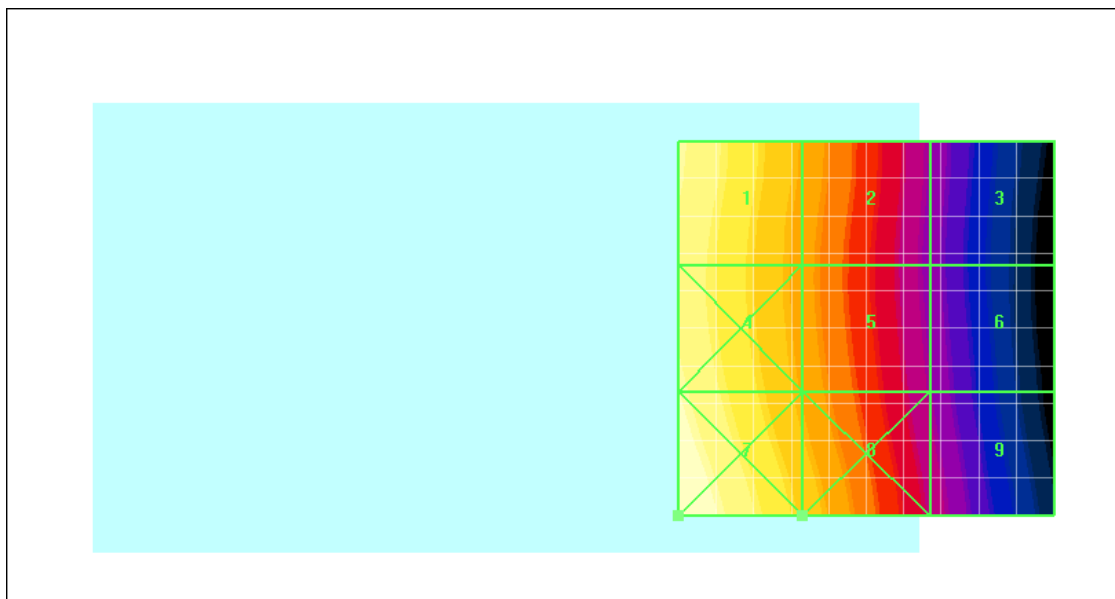
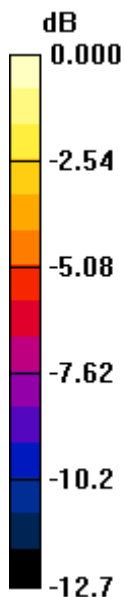
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.105 A/m; Power Drift = 0.026 dB


Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.176 M4	Grid 2 0.128 M4	Grid 3 0.079 M4
Grid 4 0.176 M4	Grid 5 0.128 M4	Grid 6 0.080 M4
Grid 7 0.194 M4	Grid 8 0.140 M4	Grid 9 0.086 M4



0 dB = 0.194A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 134 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 6:24:59 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_V_high_chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.110 A/m; Power Drift = -0.002 dB

Maximum value of Total (measured) = 0.207 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.190 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 135 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.980

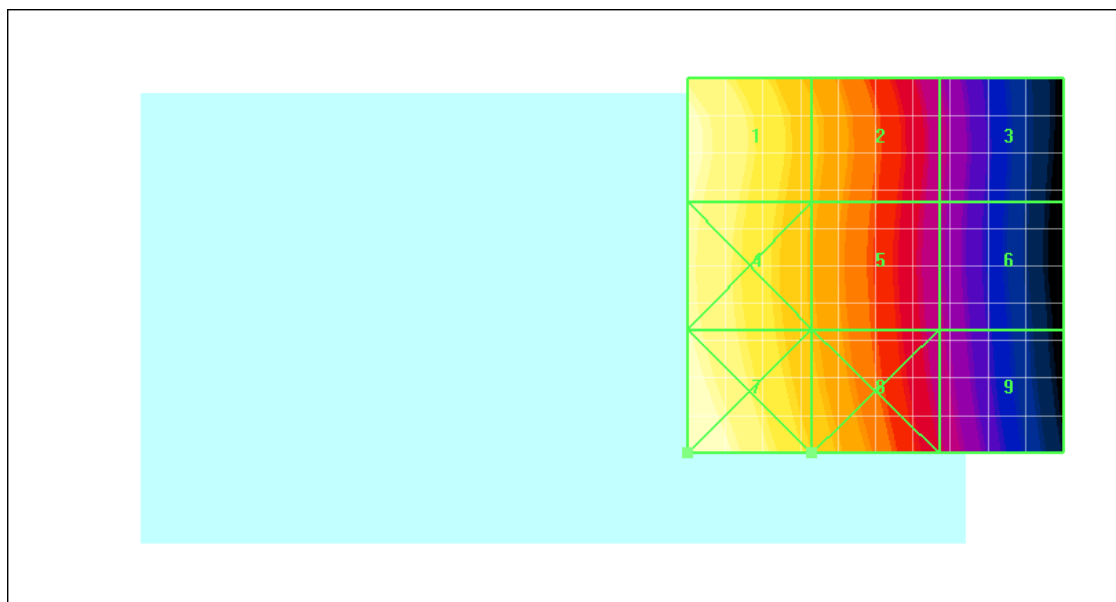
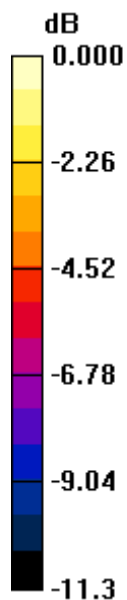
Device Reference Point: 0.000, 0.000, -6.30 mm


Reference Value = 0.110 A/m; Power Drift = -0.002 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.190 M4	Grid 2 0.146 M4	Grid 3 0.096 M4
Grid 4 0.187 M4	Grid 5 0.144 M4	Grid 6 0.095 M4
Grid 7 0.203 M4	Grid 8 0.154 M4	Grid 9 0.102 M4



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 136 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:36:13 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_II_low_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.079 A/m; Power Drift = 0.071 dB

Maximum value of Total (measured) = 0.095 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.072 A/m

Probe Modulation Factor = 0.990

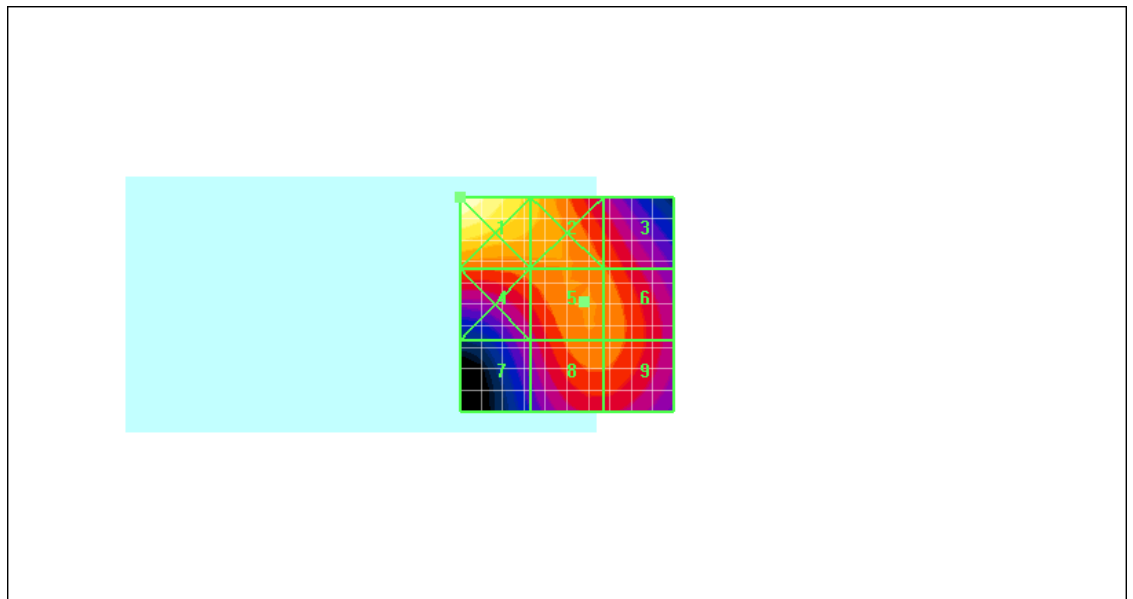
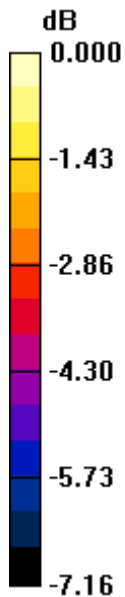
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.079 A/m; Power Drift = 0.071 dB


Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.095 M4	Grid 2 0.078 M4	Grid 3 0.069 M4
Grid 4 0.070 M4	Grid 5 0.072 M4	Grid 6 0.072 M4
Grid 7 0.059 M4	Grid 8 0.071 M4	Grid 9 0.071 M4



0 dB = 0.095A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 138 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:43:41 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_II_mid_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.083 A/m; Power Drift = -0.062 dB

Maximum value of Total (measured) = 0.099 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.075 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 139 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

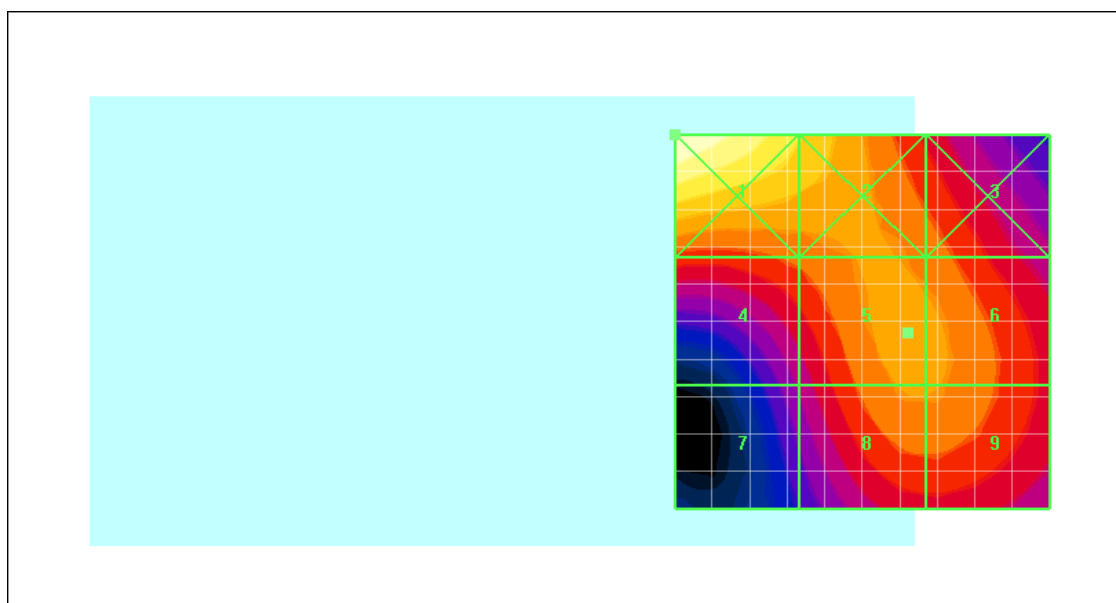
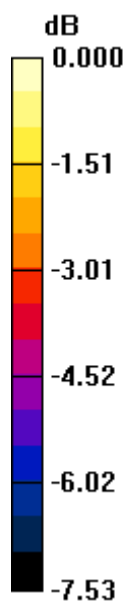
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.083 A/m; Power Drift = -0.062 dB


Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.098 M4	Grid 2 0.083 M4	Grid 3 0.072 M4
Grid 4 0.070 M4	Grid 5 0.075 M4	Grid 6 0.075 M4
Grid 7 0.059 M4	Grid 8 0.074 M4	Grid 9 0.074 M4



0 dB = 0.098A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 140 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/19/2010 11:53:04 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_II_high_chan.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = -0.034 dB

Maximum value of Total (measured) = 0.110 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.078 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW			Page 141 (143)
	Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

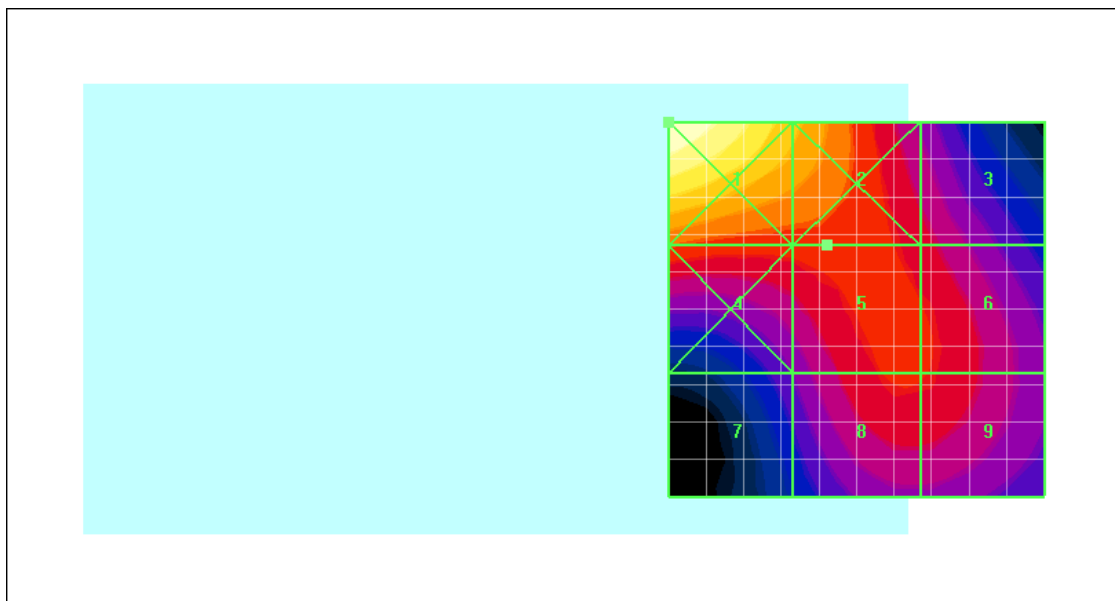
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.087 A/m; Power Drift = -0.034 dB


Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.109 M4	Grid 2 0.090 M4	Grid 3 0.074 M4
Grid 4 0.080 M4	Grid 5 0.078 M4	Grid 6 0.077 M4
Grid 7 0.065 M4	Grid 8 0.076 M4	Grid 9 0.076 M4



0 dB = 0.109A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 142 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Date/Time: 4/20/2010 6:32:39 PM

Test Laboratory: RIM TESTING SERVICES

File Name: [HAC_H_UMTS_Band_II_high_chan_Telecoil.da4](#)

DUT: BlackBerry Smartphone

Program Name: HAC RF H3DV6 Device

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.037 dB

Maximum value of Total (measured) = 0.119 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.088 A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDA71UW		Page 143 (143)
Author Data Daoud Attayi	Dates of Test April 12-20, 2010	Report No RTS-2671-1005-35	FCC ID L6ARDA70UW

Probe Modulation Factor = 0.990

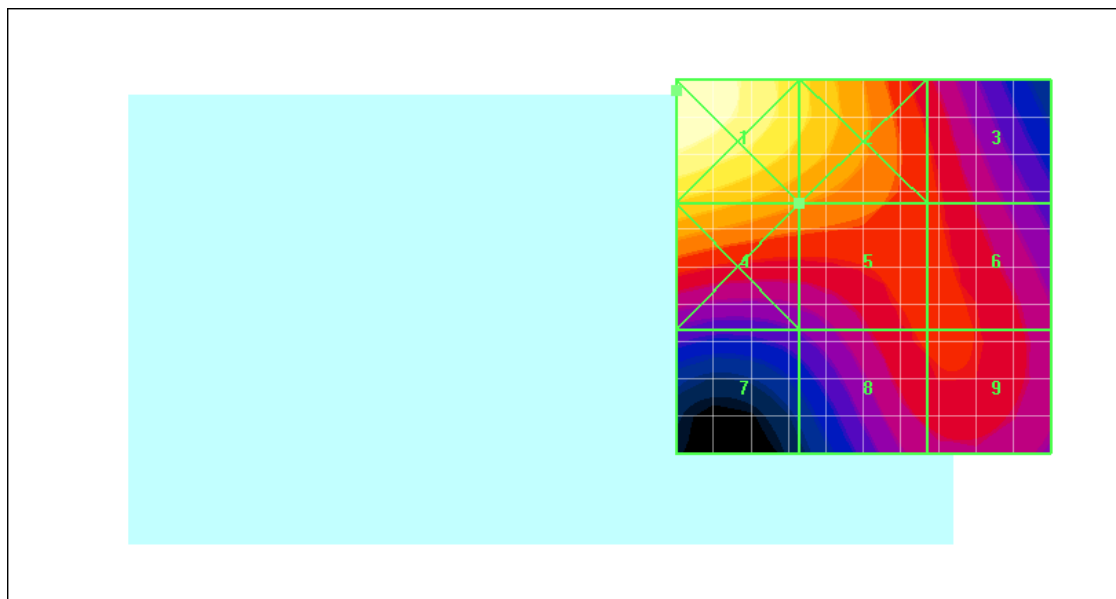
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.037 dB

Hearing Aid Near-Field Category: **M4 (AWF 0 dB)**

Peak H-field in A/m

Grid 1 0.118 M4	Grid 2 0.100 M4	Grid 3 0.079 M4
Grid 4 0.098 M4	Grid 5 0.088 M4	Grid 6 0.079 M4
Grid 7 0.065 M4	Grid 8 0.079 M4	Grid 9 0.079 M4



0 dB = 0.118A/m