

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 1 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Annex A: Measurement data and plots

A.1 Spectrum analyser plots: GSM/UMTS, CW, 80%AM, signals



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

2 (200)

Author Data

Daoud Attayi

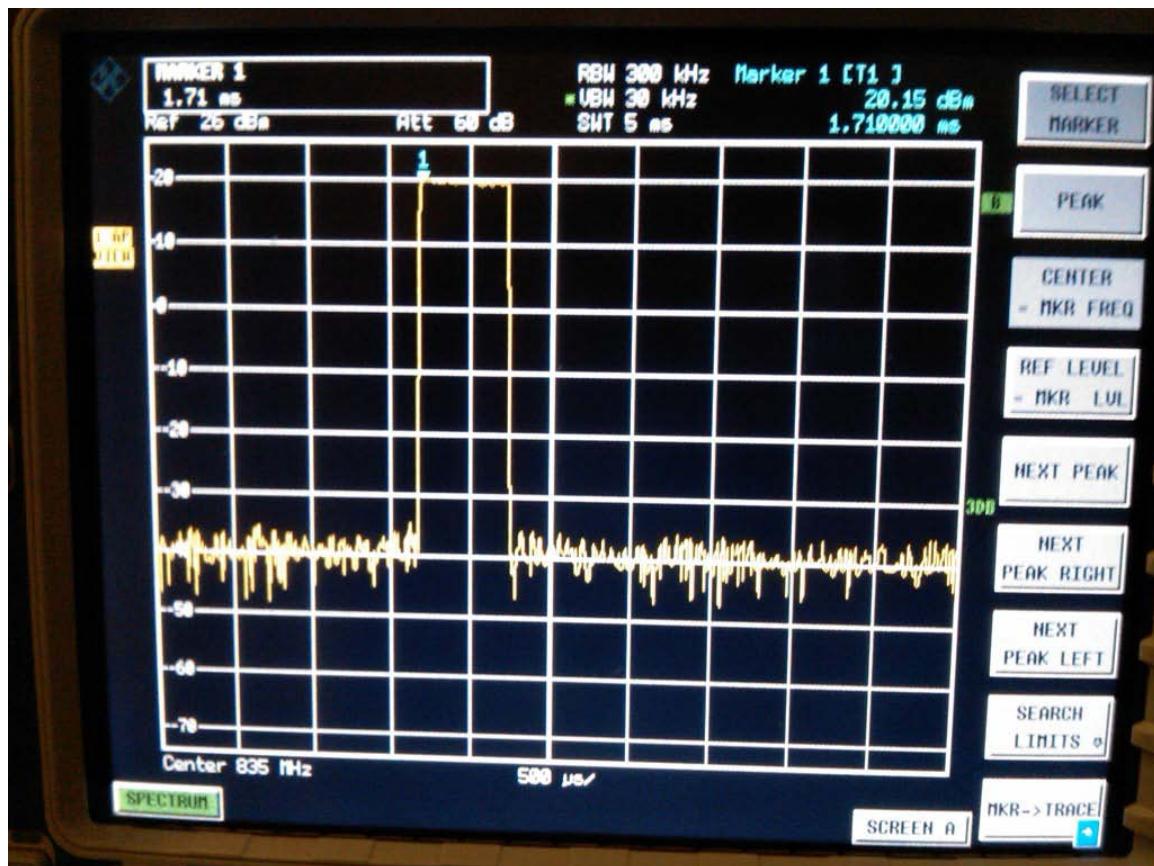
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****GSM 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

3 (200)

Author Data

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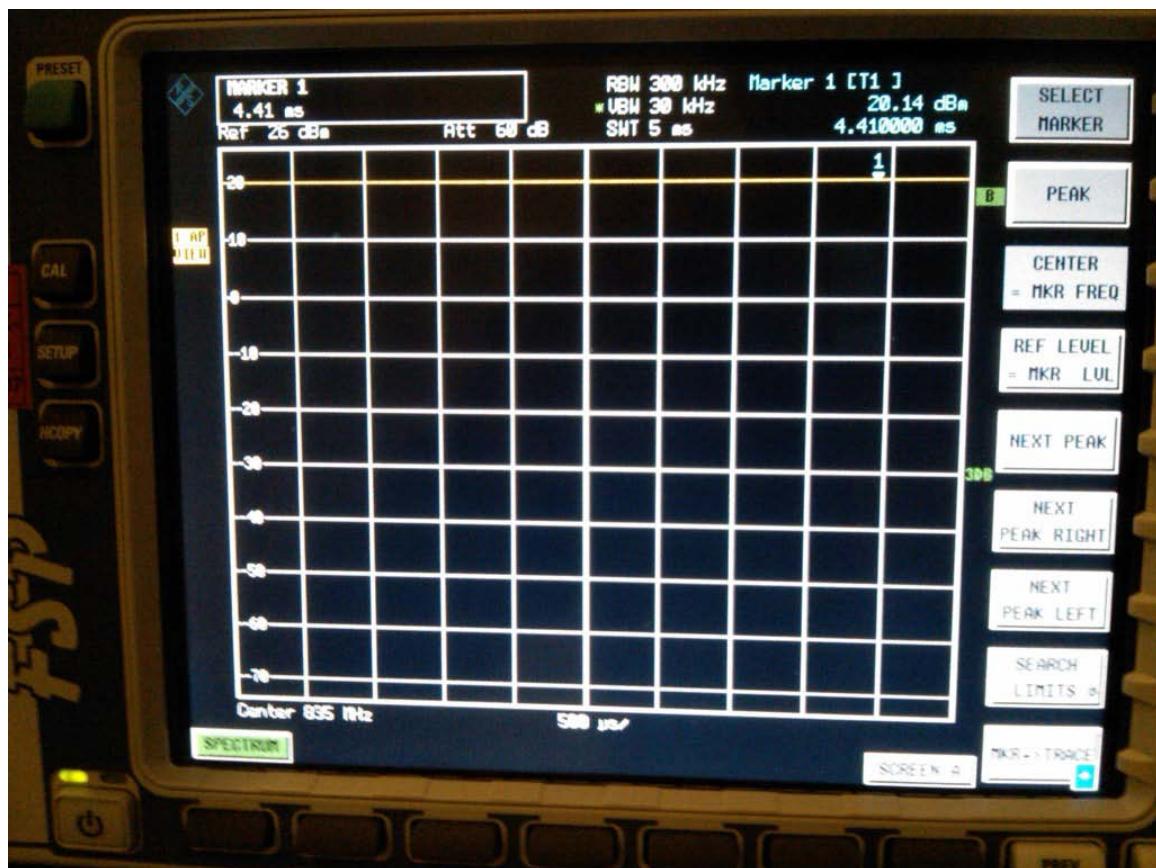
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****CW 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

4 (200)

Author Data

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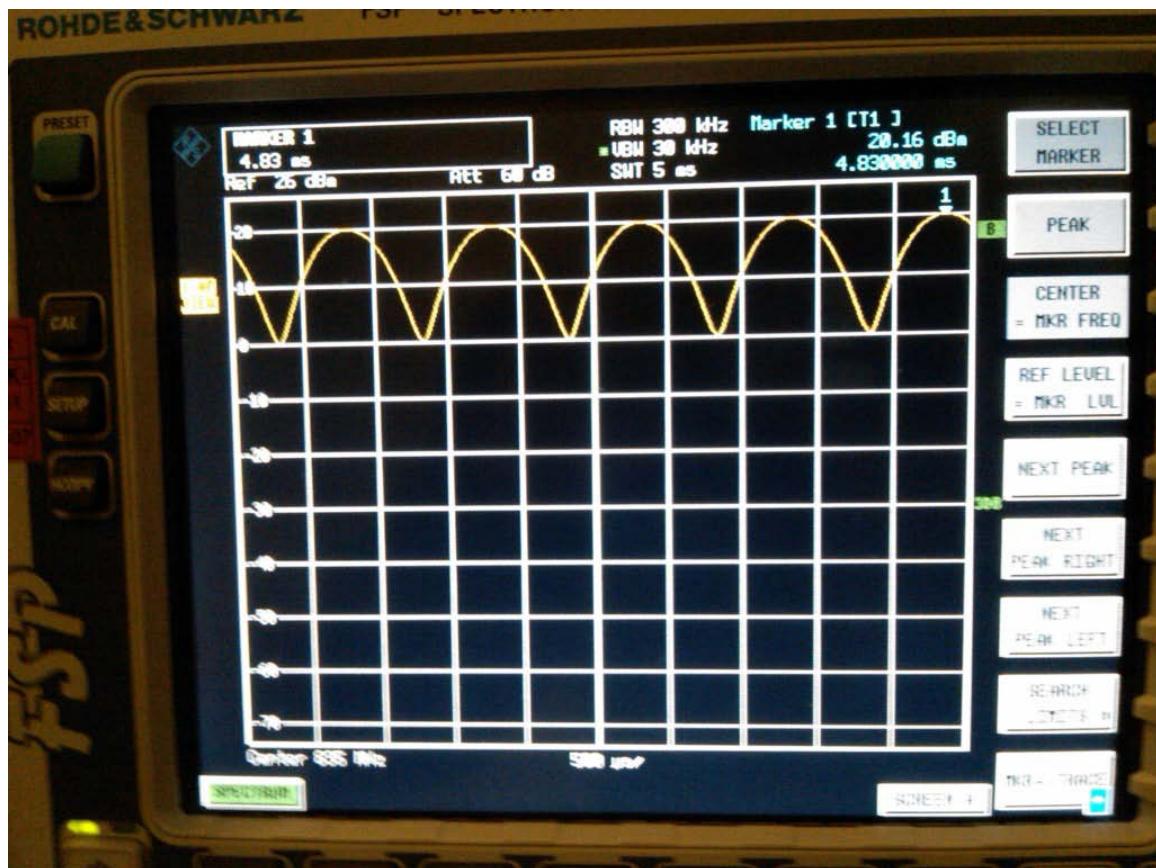
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****AM 80% 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

5 (200)

Author Data

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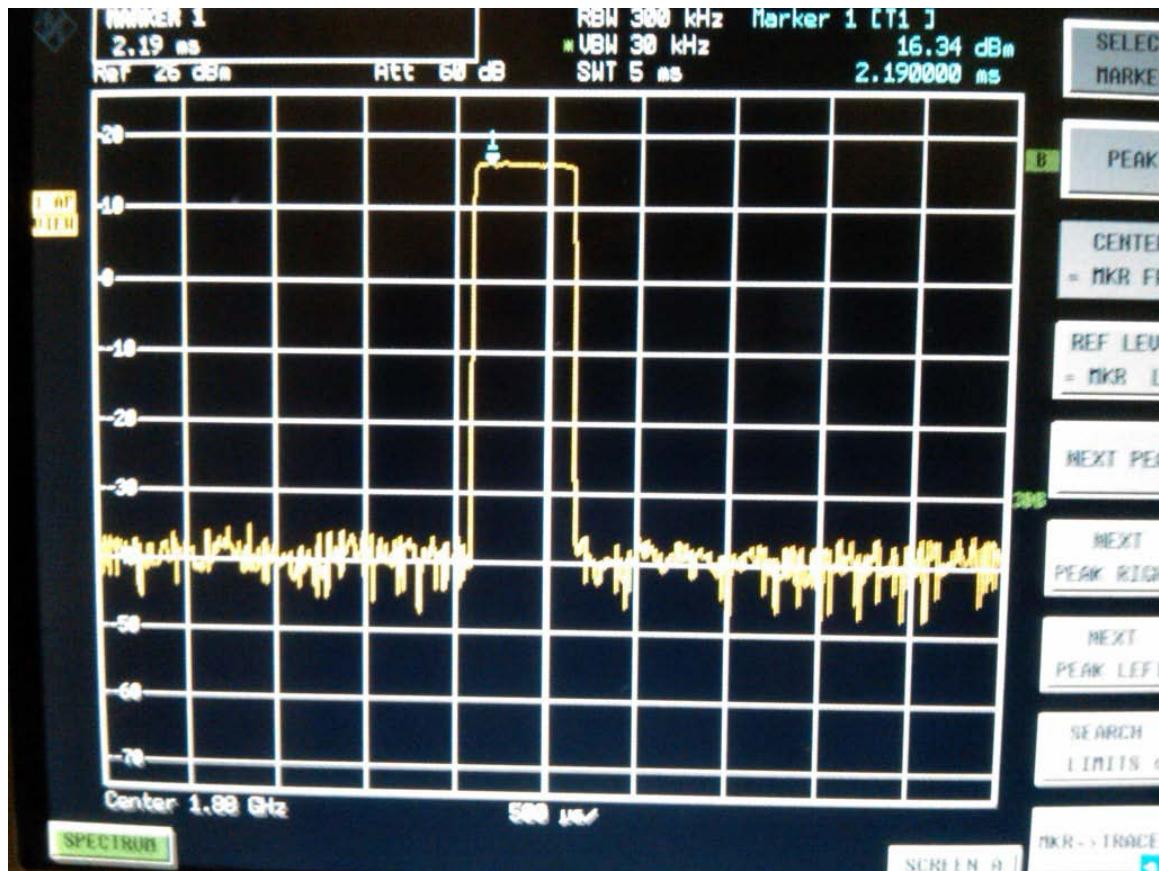
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****GSM 1880 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

6 (200)

Author Data

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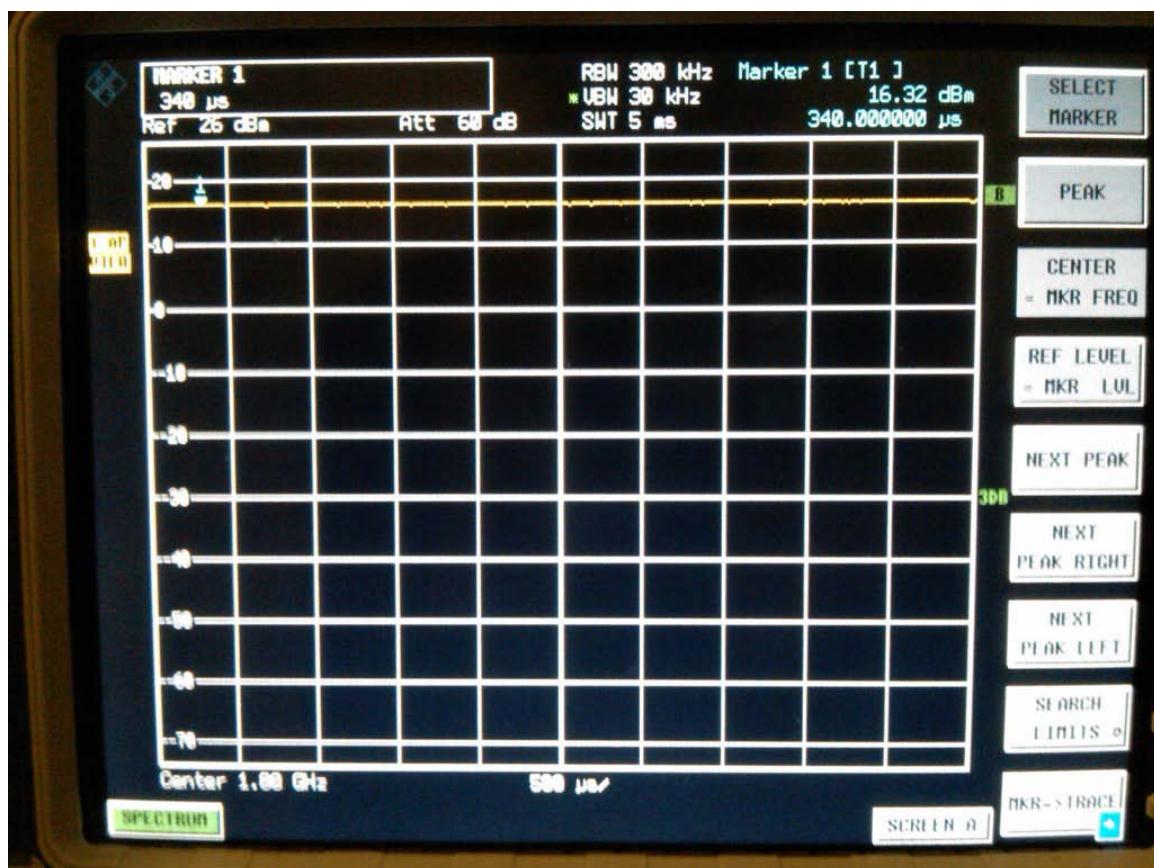
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****CW 1880 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

7 (200)

Author Data

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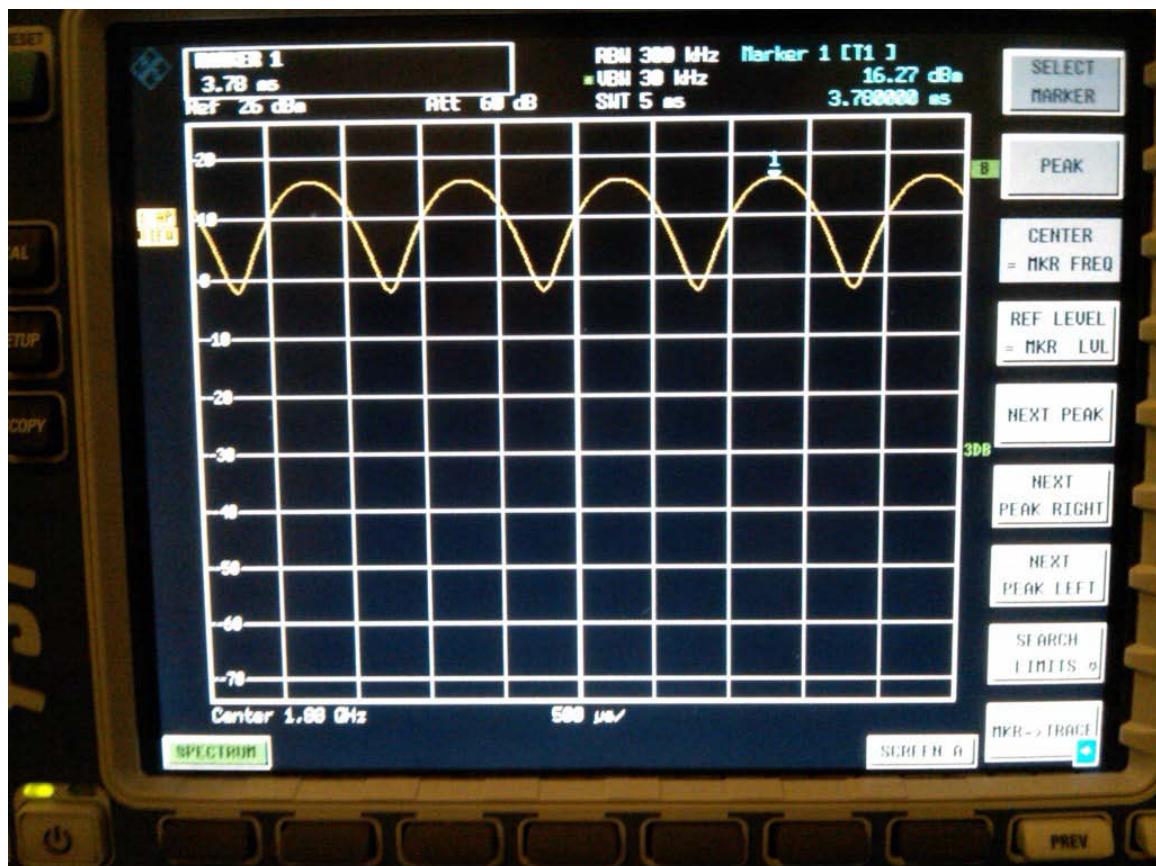
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****AM 80 % 1880 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

8 (200)

Author Data

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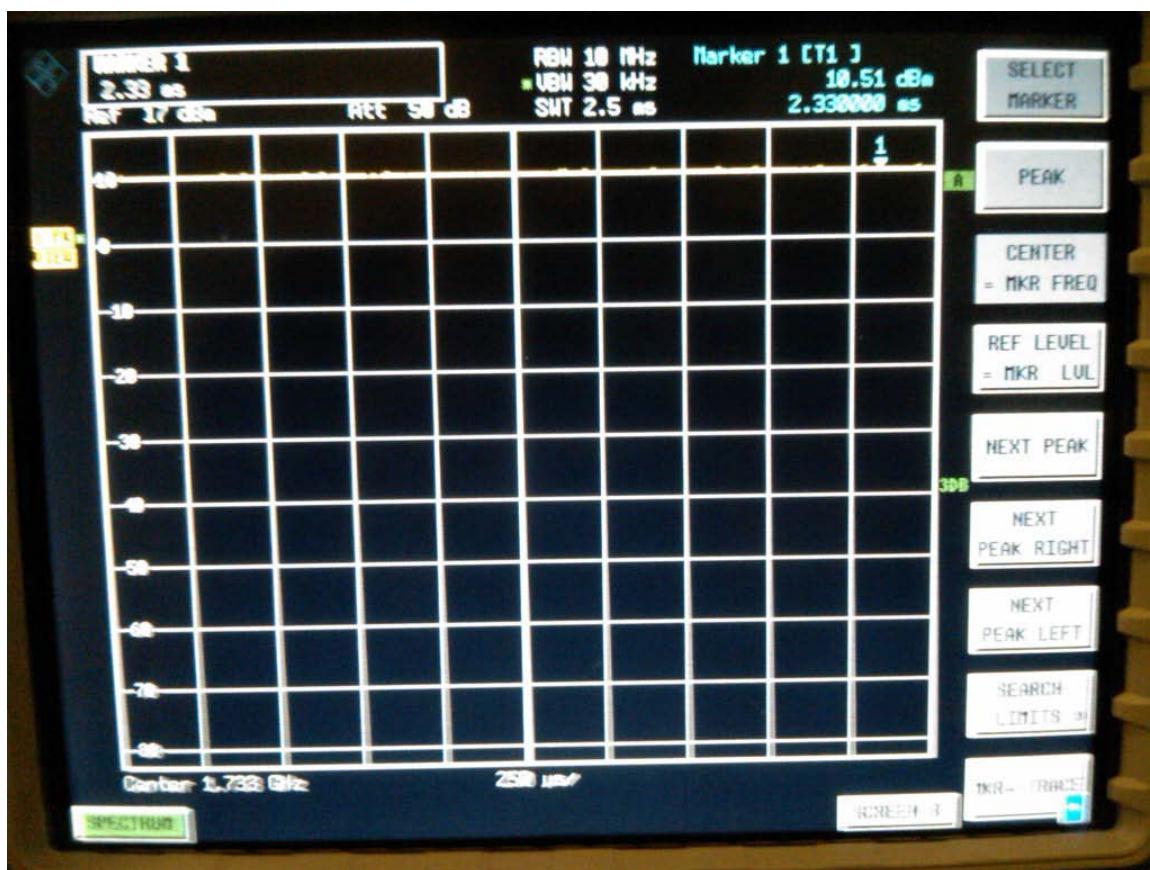
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Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****UMTS 1733 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

9 (200)

Author Data

Daoud Attayi

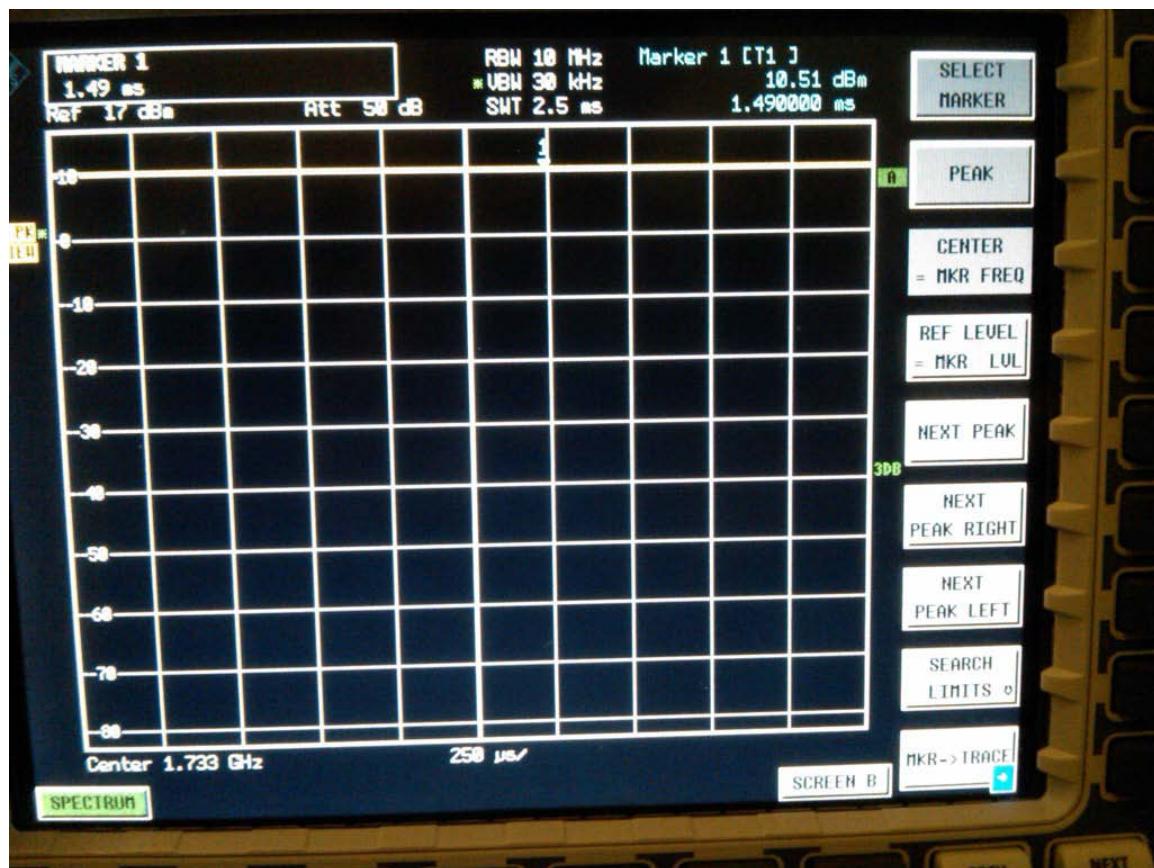
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RTS-2579-1107-18B

FCC ID

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Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

10 (200)

Author Data

Daoud Attayi

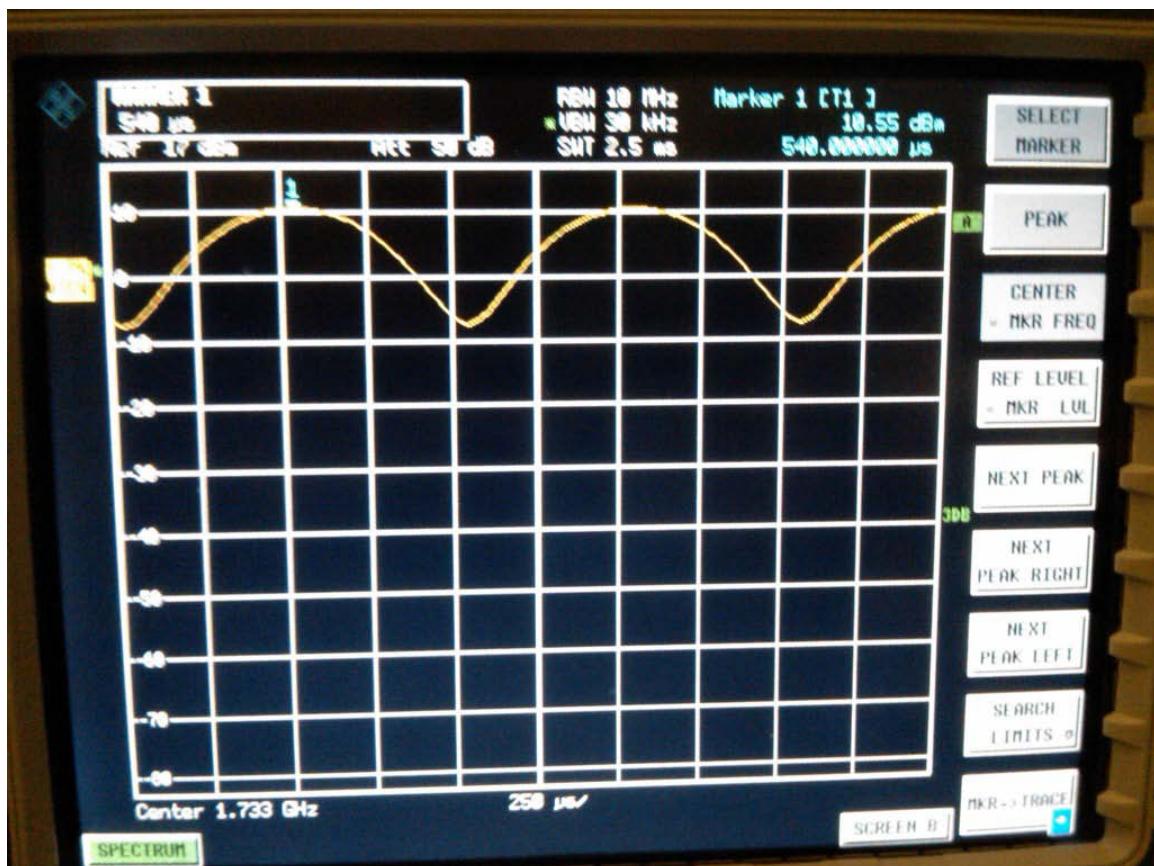
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****AM 80% 1733 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

11 (200)

Author Data

Daoud Attayi

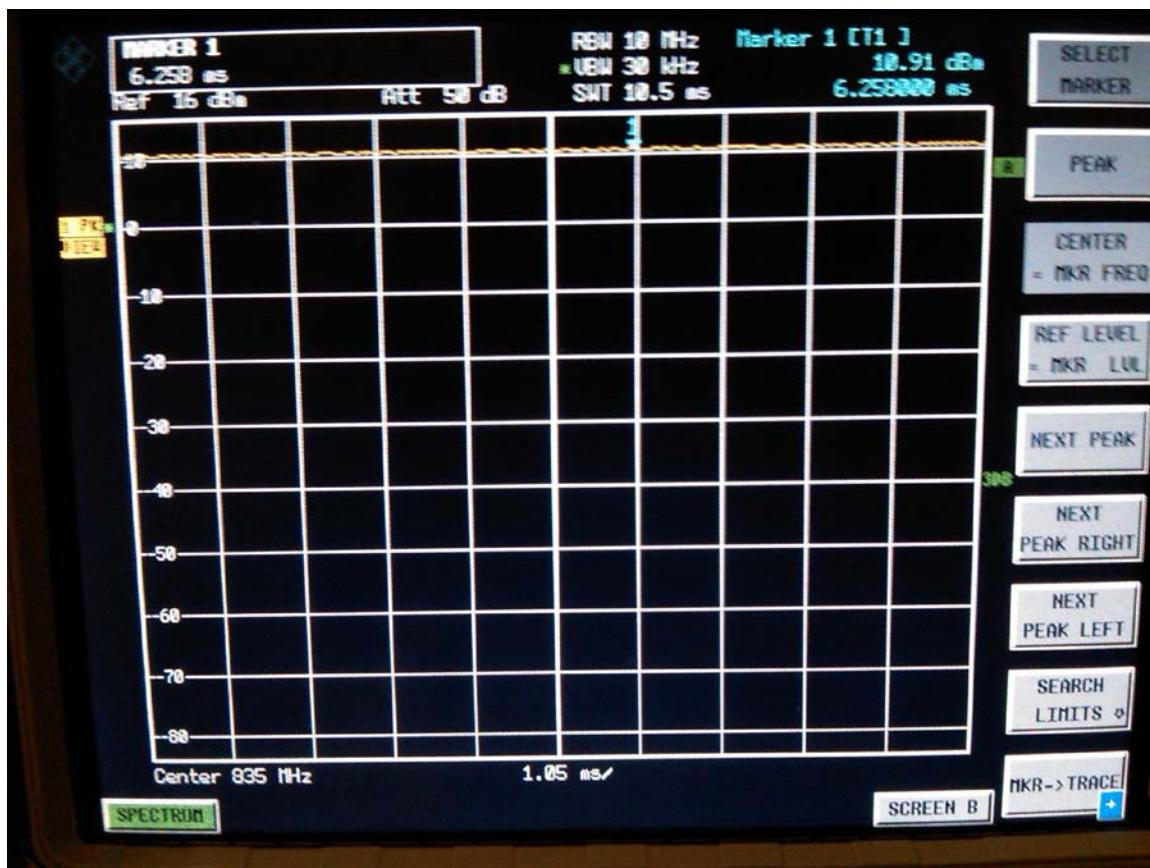
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****UMTS 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

12 (200)

Author Data

Daoud Attayi

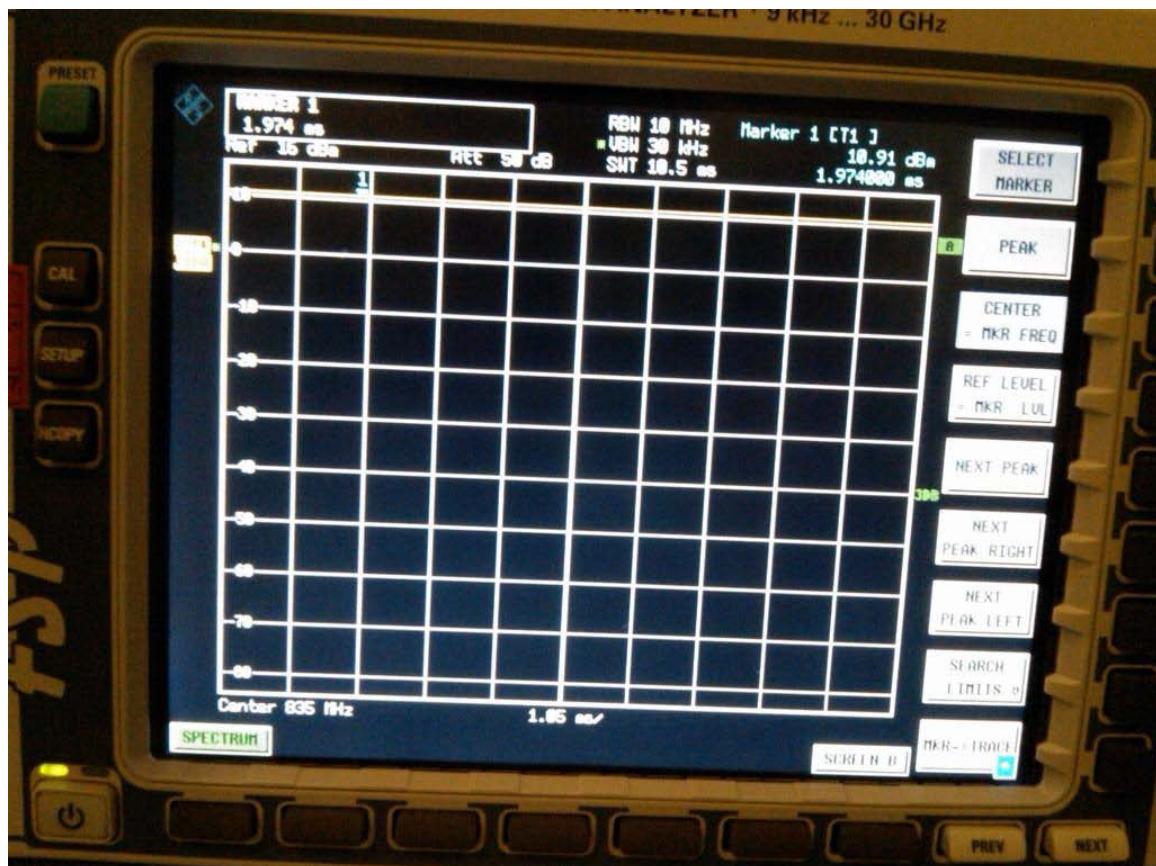
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Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****CW 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

13 (200)

Author Data

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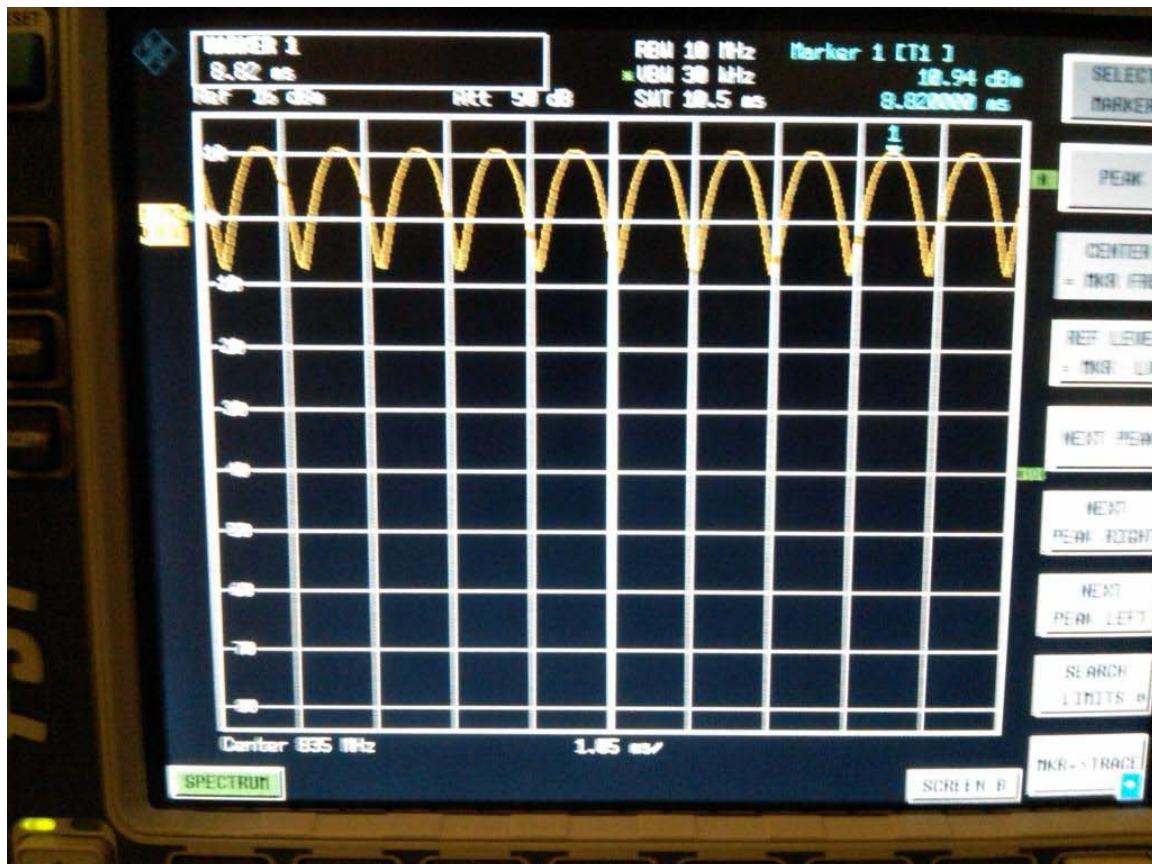
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Report No

RTS-2579-1107-18B

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L6ARDD70UW**L6ARDX70UW****AM 80% 835 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

14 (200)

Author Data

Daoud Attayi

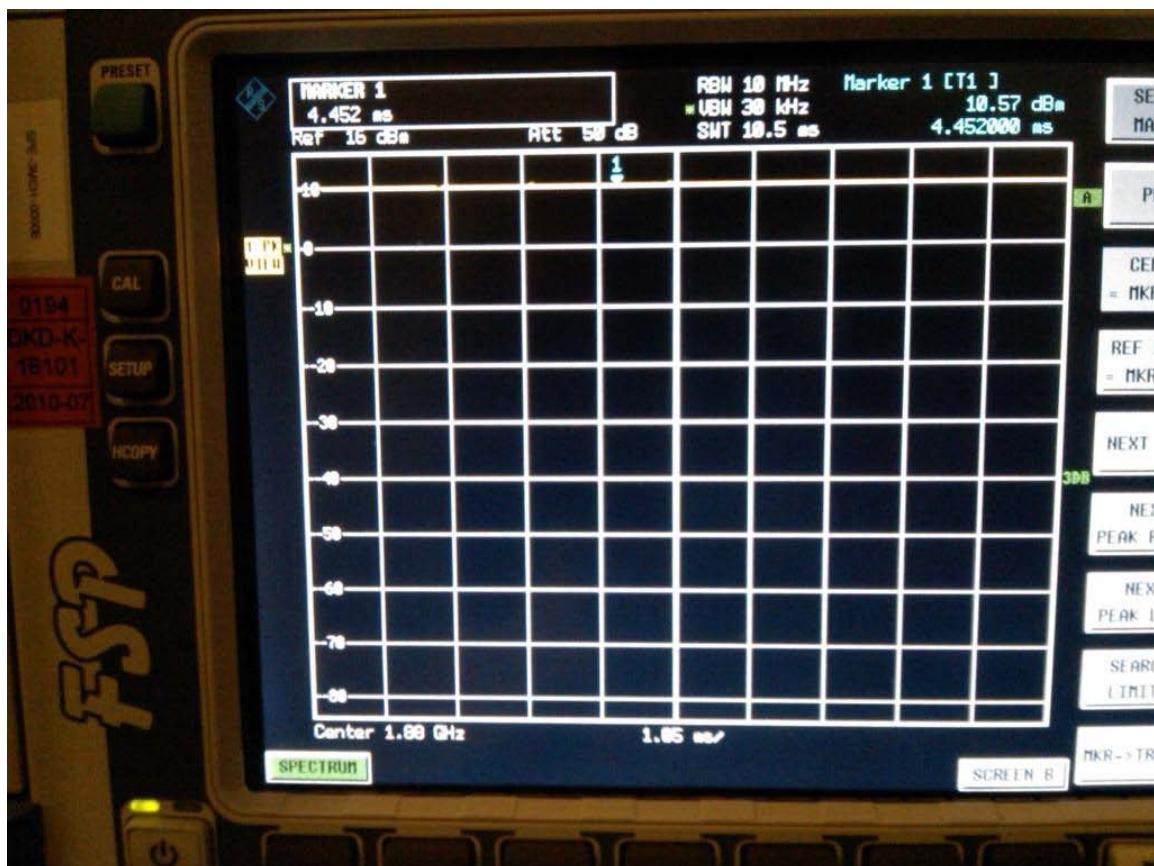
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****UMTS 1880 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

15 (200)

Author Data

Daoud Attayi

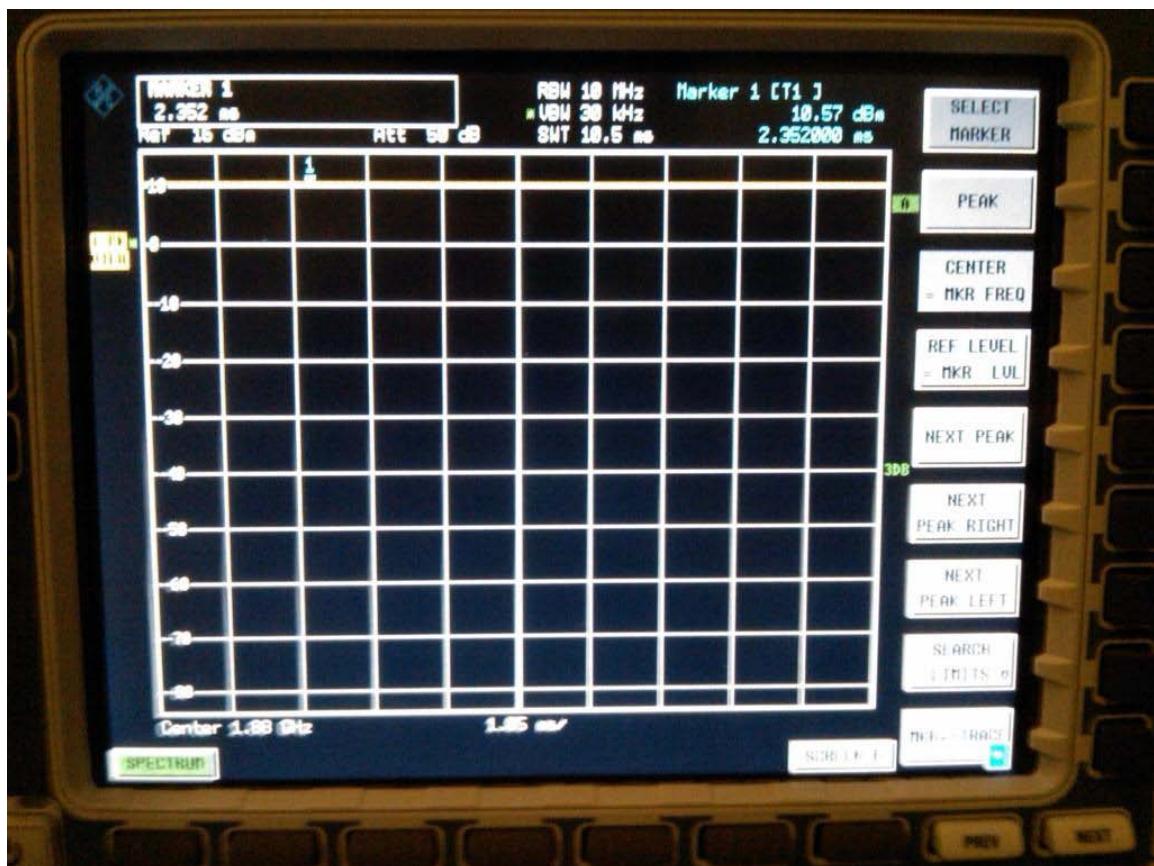
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****CW 1880 MHz**



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

16 (200)

Author Data

Daoud Attayi

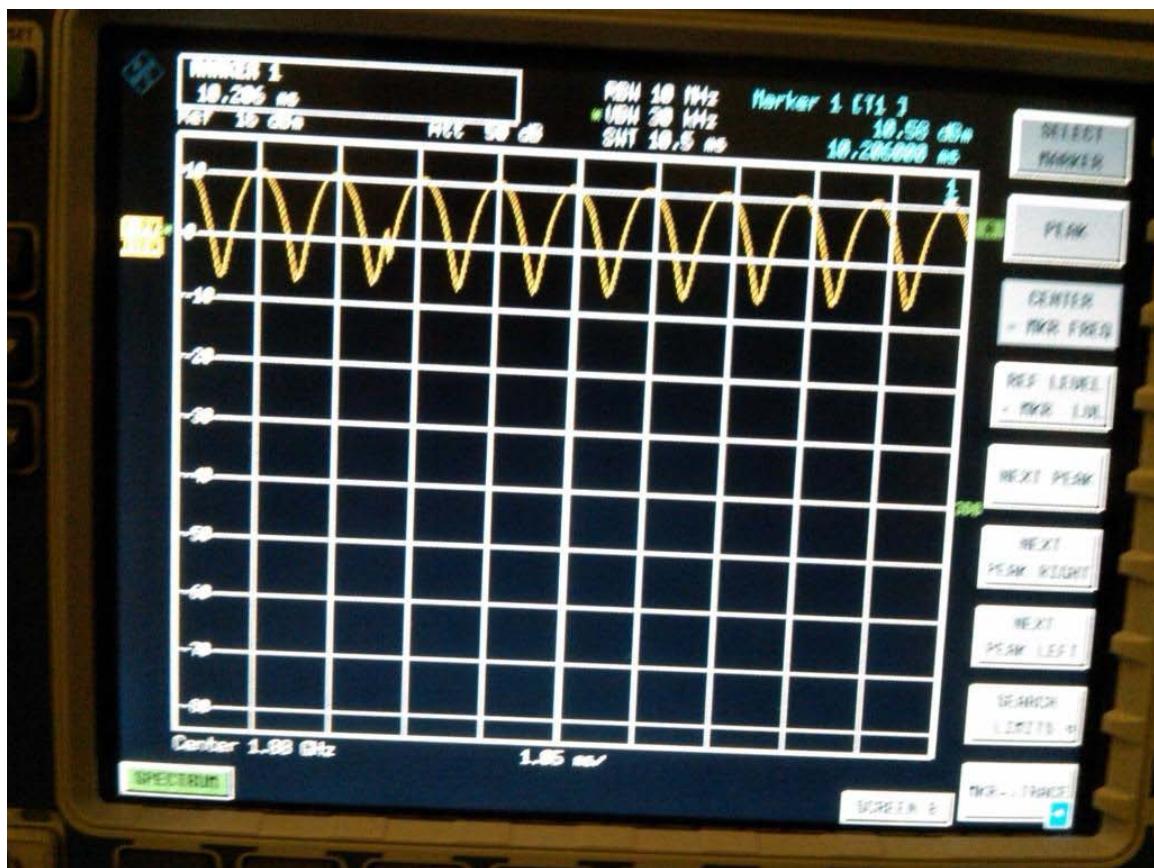
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW****AM 80 % 1880 MHz**

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 17 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

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 RDD71UW/RDX71UW	Page
			18 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 3:37:27 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz

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

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 160.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 119.1 V/m; Power Drift = 0.28 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 19 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Peak E-field in V/m

Grid 1 154.3 M4	Grid 2 160.2 M4	Grid 3 156.7 M4
Grid 4 85.253 M4	Grid 5 88.903 M4	Grid 6 87.202 M4
Grid 7 155.3 M4	Grid 8 158.9 M4	Grid 9 155.3 M4

Cursor:

Total = 160.2 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm

Author Data

Daoud Attayi

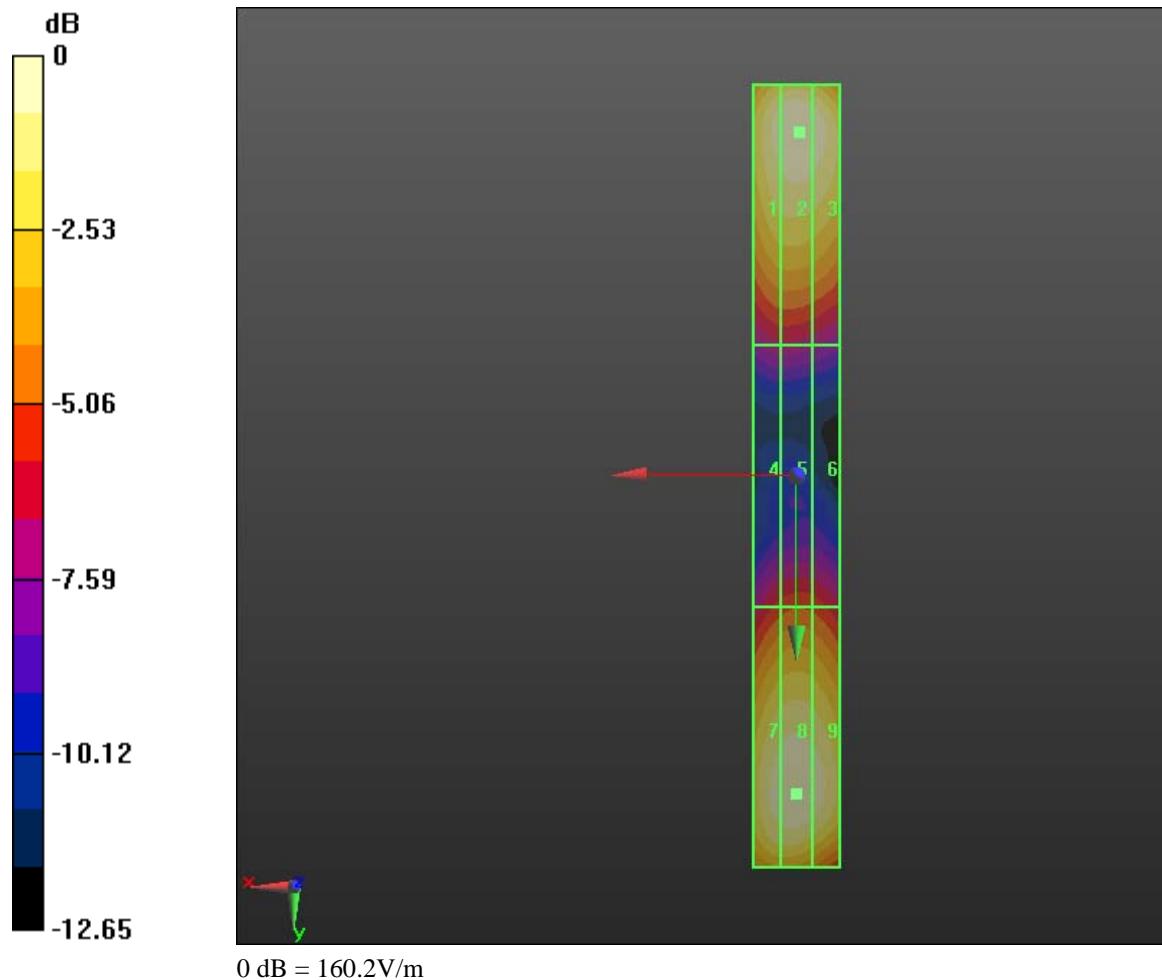
Dates of Test

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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			21 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 2:40:53 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: GSM 850;; Frequency: 835 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 54.142 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.642 V/m; Power Drift = -0.06 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 22 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 51.408 M4	Grid 2 54.142 M4	Grid 3 52.509 M4
Grid 4 27.621 M4	Grid 5 27.841 M4	Grid 6 27.144 M4
Grid 7 49.045 M4	Grid 8 49.106 M4	Grid 9 47.011 M4

Cursor:

Total = 54.142 V/m

E Category: M4

Location: -0.5, -79.5, 4.7 mm

Author Data

Daoud Attayi

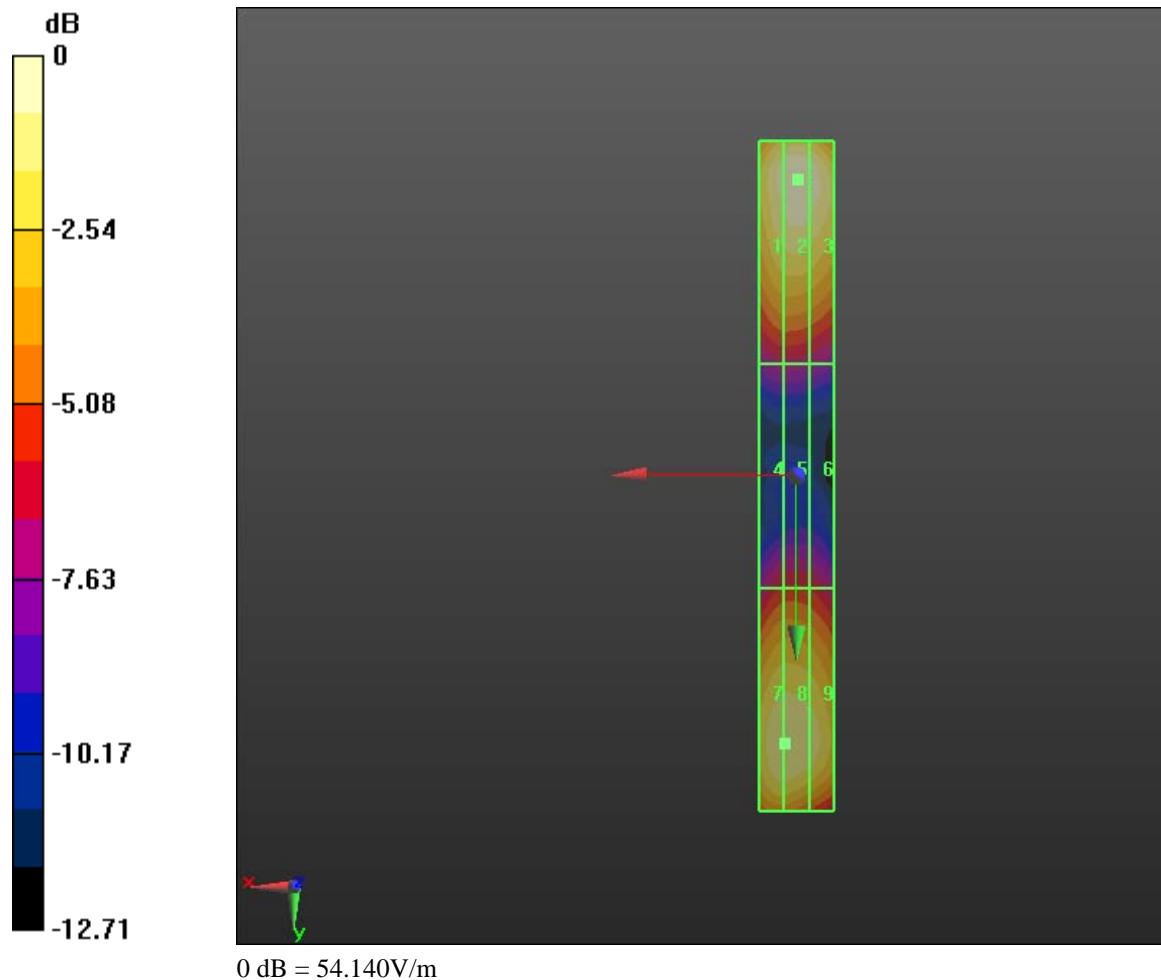
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Report No

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L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			24 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 3:01:22 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 159.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.6 V/m; Power Drift = -0.10 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 25 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 153.1 M4	Grid 2 159.3 M4	Grid 3 154.5 M4
Grid 4 8066 M4	Grid 5 86.943 M4	Grid 6 84.863 M4
Grid 7 153.2 M4	Grid 8 154.9 M4	Grid 9 151.1 M4

Cursor:

Total = 159.3 V/m

E Category: M4

Location: 0, -79, 4.7 mm

Author Data

Daoud Attayi

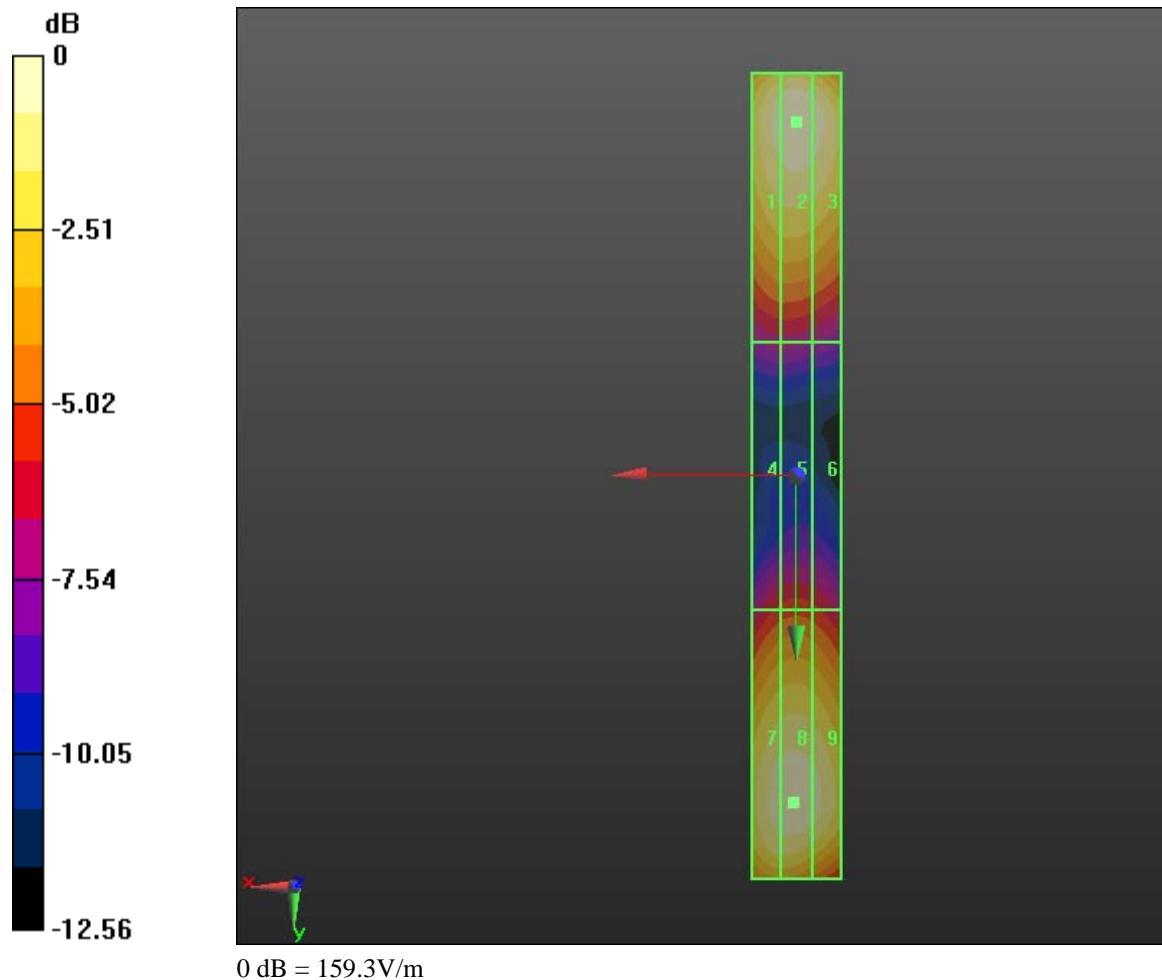
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 27 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 3:09:37 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 99.820 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 74.981 V/m; Power Drift = -0.17 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 28 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 96.553 M4	Grid 2 99.820 M4	Grid 3 97.313 M4
Grid 4 54.091 M4	Grid 5 55.431 M4	Grid 6 53.882 M4
Grid 7 95.955 M4	Grid 8 97.176 M4	Grid 9 95.117 M4

Cursor:

Total = 99.821 V/m

E Category: M4

Location: 0, -79, 4.7 mm

Author Data

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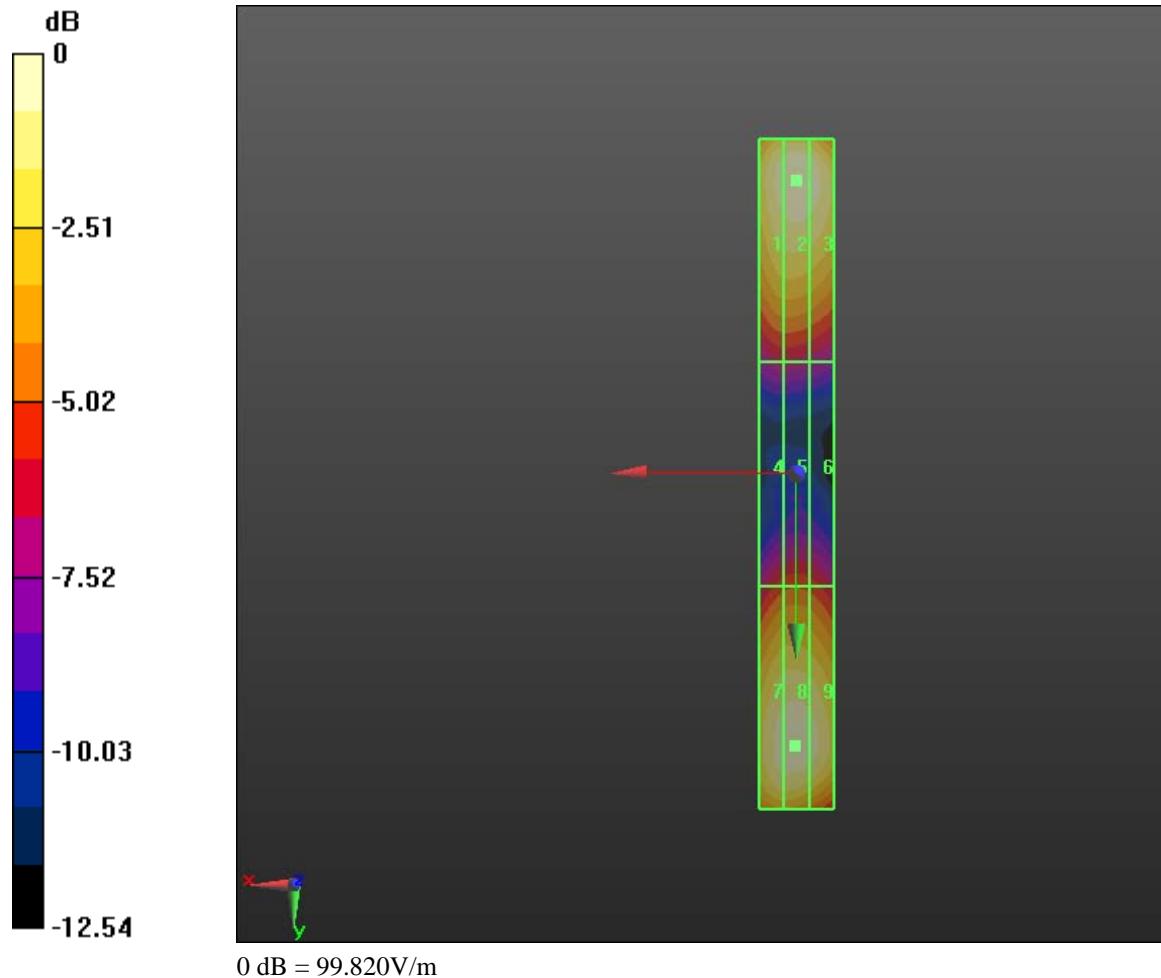
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Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW		Page 30 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	
			FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 4:50:23 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 133.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 124.8 V/m; Power Drift = -0.0086 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 31 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 130.6 M2	Grid 2 133.2 M2	Grid 3 126.2 M2
Grid 4 83.013 M3	Grid 5 87.500 M3	Grid 6 86.528 M3
Grid 7 121.2 M2	Grid 8 124.7 M2	Grid 9 122.2 M2

Cursor:

Total = 133.2 V/m

E Category: M2

Location: 0.5, -38.5, 4.7 mm

Author Data

Daoud Attayi

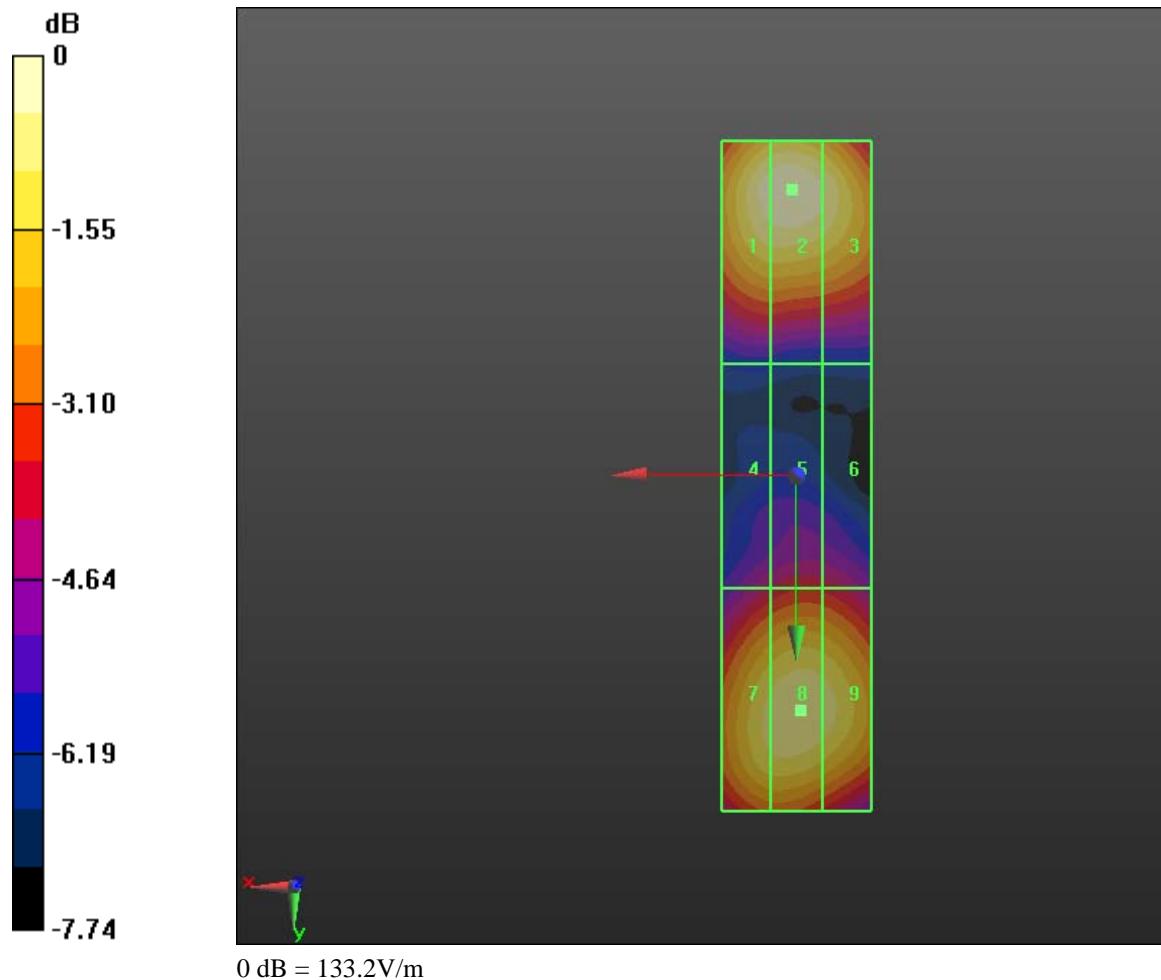
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			33 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 4:54:49 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_GSM_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 27.663 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.374 V/m; Power Drift = 0.02 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 34 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 27.050 M4	Grid 2 27.663 M4	Grid 3 26.052 M4
Grid 4 17.031 M4	Grid 5 18.013 M4	Grid 6 17.833 M4
Grid 7 2036 M4	Grid 8 25.539 M4	Grid 9 25.116 M4

Cursor:

Total = 27.663 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

Author Data

Daoud Attayi

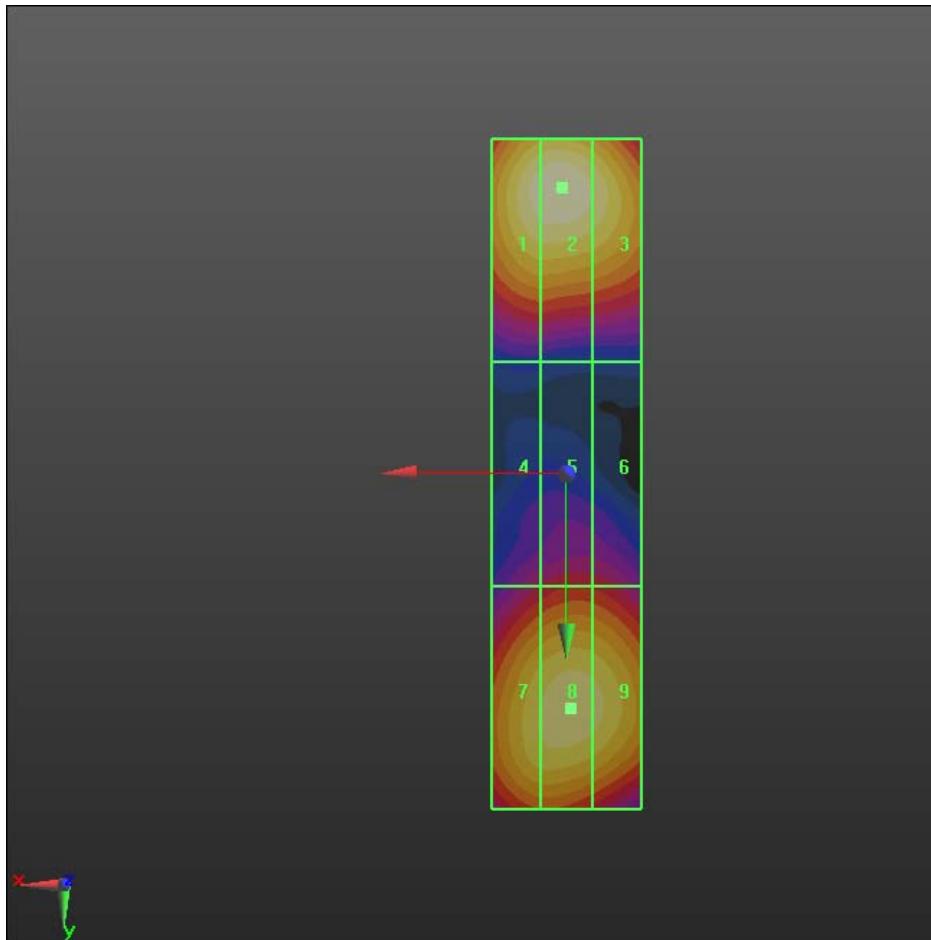
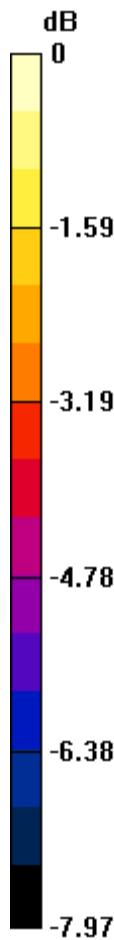
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			36 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 12:08:40 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_CW1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 82.216 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 78.932 V/m; Power Drift = 0.0039 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

37 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

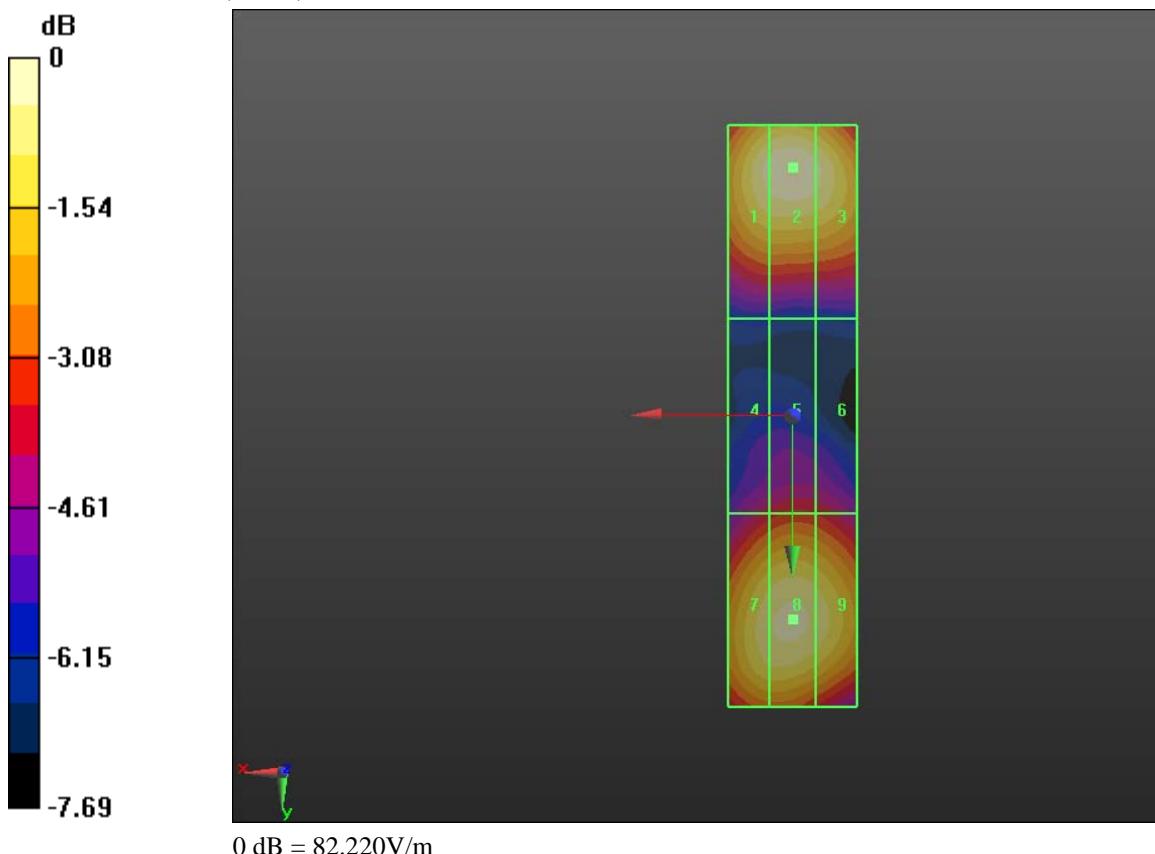
Grid 1	Grid 2	Grid 3
79.692 M3	82.216 M3	79.228 M3
Grid 4	Grid 5	Grid 6
52.849 M4	55.292 M4	54.232 M4
Grid 7	Grid 8	Grid 9
76.960 M3	78.815 M3	76.489 M3

Cursor:

Total = 82.216 V/m

E Category: M3

Location: 0, -38.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			38 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/22/2011 4:12:07 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_AM80%1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 53.337 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 49.939 V/m; Power Drift = -0.09 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 39 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 52.377 M4	Grid 2 53.337 M4	Grid 3 50.671 M4
Grid 4 3062 M4	Grid 5 35.058 M4	Grid 6 3043 M4
Grid 7 48.429 M4	Grid 8 49.374 M4	Grid 9 48.243 M4

Cursor:

Total = 53.337 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

Author Data

Daoud Attayi

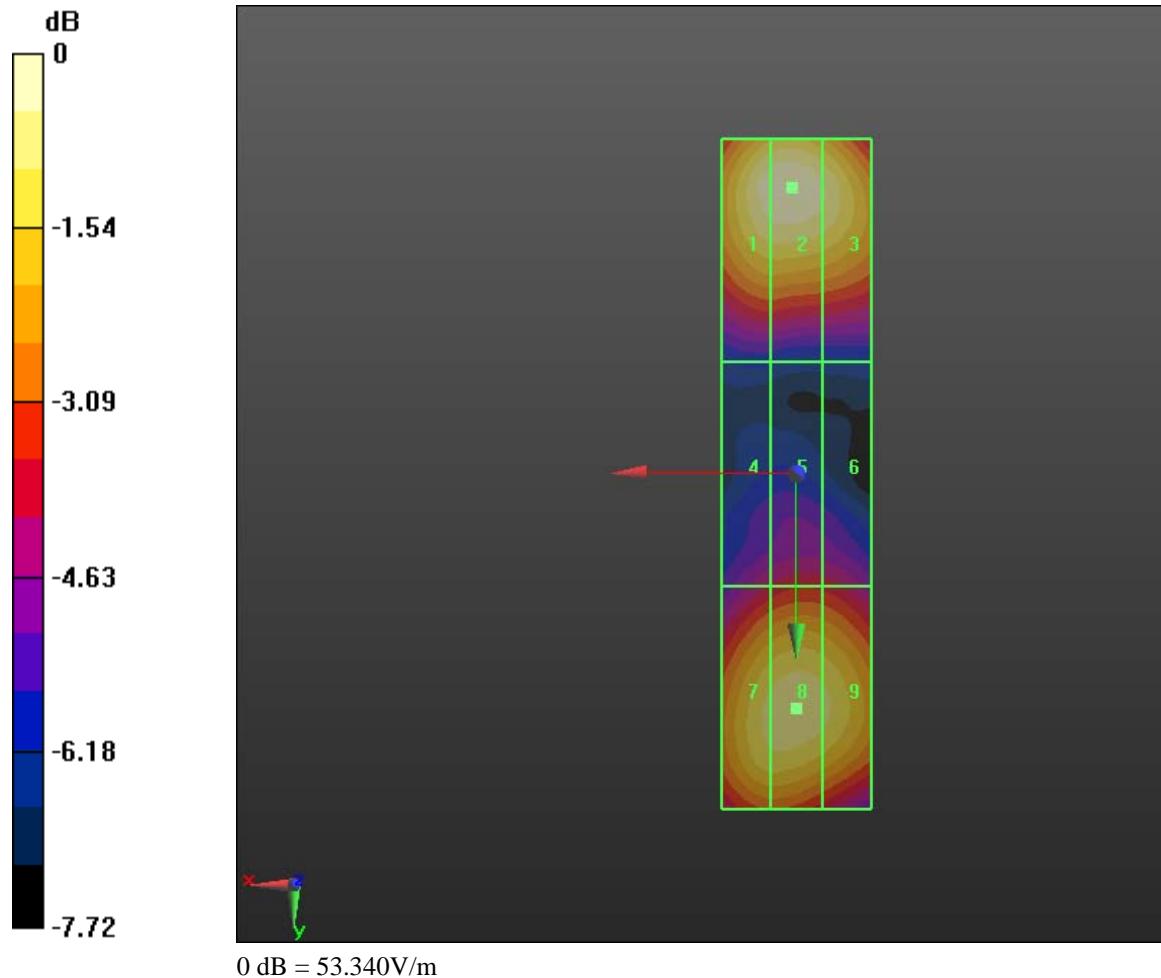
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			41 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 3:19:30 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.475 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.514 A/m; Power Drift = -0.08 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

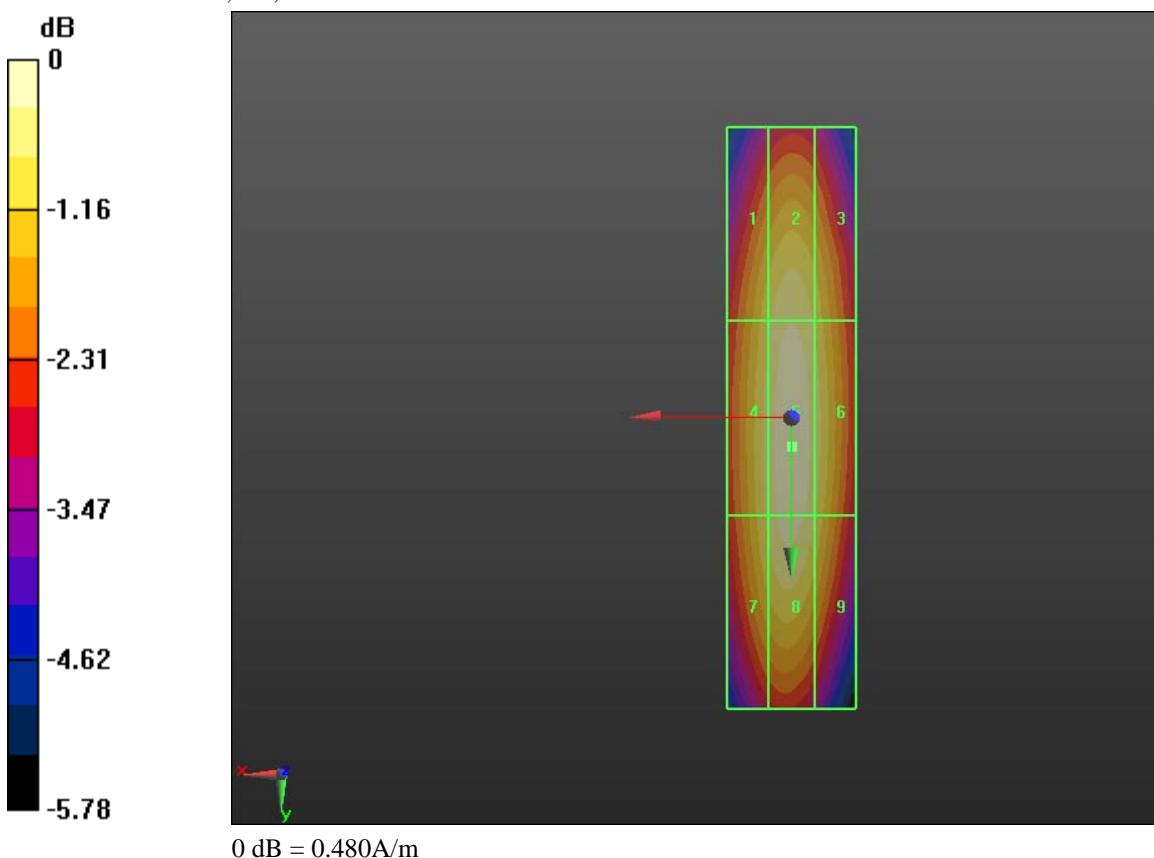
Grid 1	Grid 2	Grid 3
0.437 M4	0.459 M4	0.437 M4
Grid 4	Grid 5	Grid 6
0.453 M4	0.475 M4	0.453 M4
Grid 7	Grid 8	Grid 9
0.447 M4	0.469 M4	0.442 M4

Cursor:

Total = 0.475 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			43 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 3:06:50 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: GSM 850; Frequency: 835 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.173 A/m; Power Drift = 0.43 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

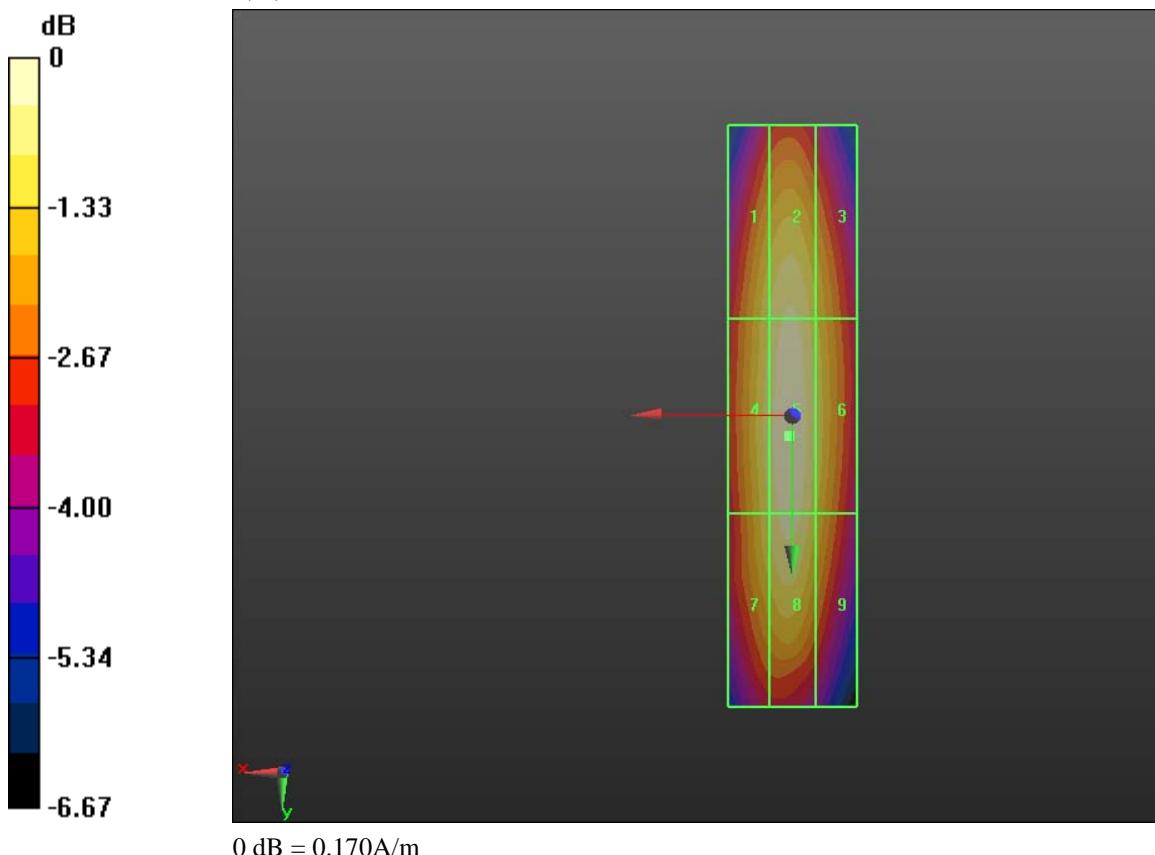
Grid 1	Grid 2	Grid 3
0.154 M4	0.163 M4	0.148 M4
Grid 4	Grid 5	Grid 6
0.159 M4	0.168 M4	0.153 M4
Grid 7	Grid 8	Grid 9
0.155 M4	0.165 M4	0.148 M4

Cursor:

Total = 0.168 A/m

H Category: M4

Location: 0.5, 3, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			45 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 3:23:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.482 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.503 A/m; Power Drift = -0.00099 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

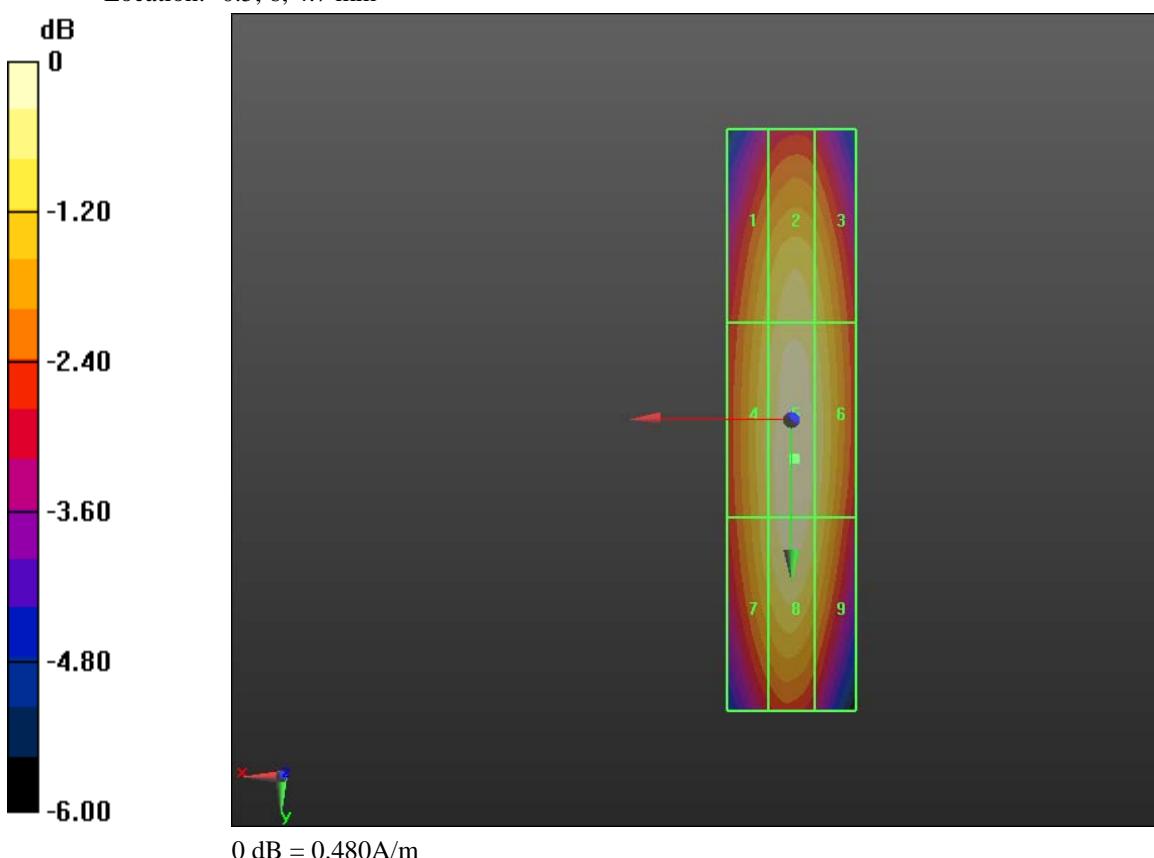
Grid 1	Grid 2	Grid 3
0.429 M4	0.450 M4	0.439 M4
Grid 4	Grid 5	Grid 6
0.449 M4	0.482 M4	0.458 M4
Grid 7	Grid 8	Grid 9
0.441 M4	0.475 M4	0.448 M4

Cursor:

Total = 0.482 A/m

H Category: M4

Location: -0.5, 6, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			47 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 3:34:08 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%835 MHz_GSM

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.302 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.326 A/m; Power Drift = -0.16 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

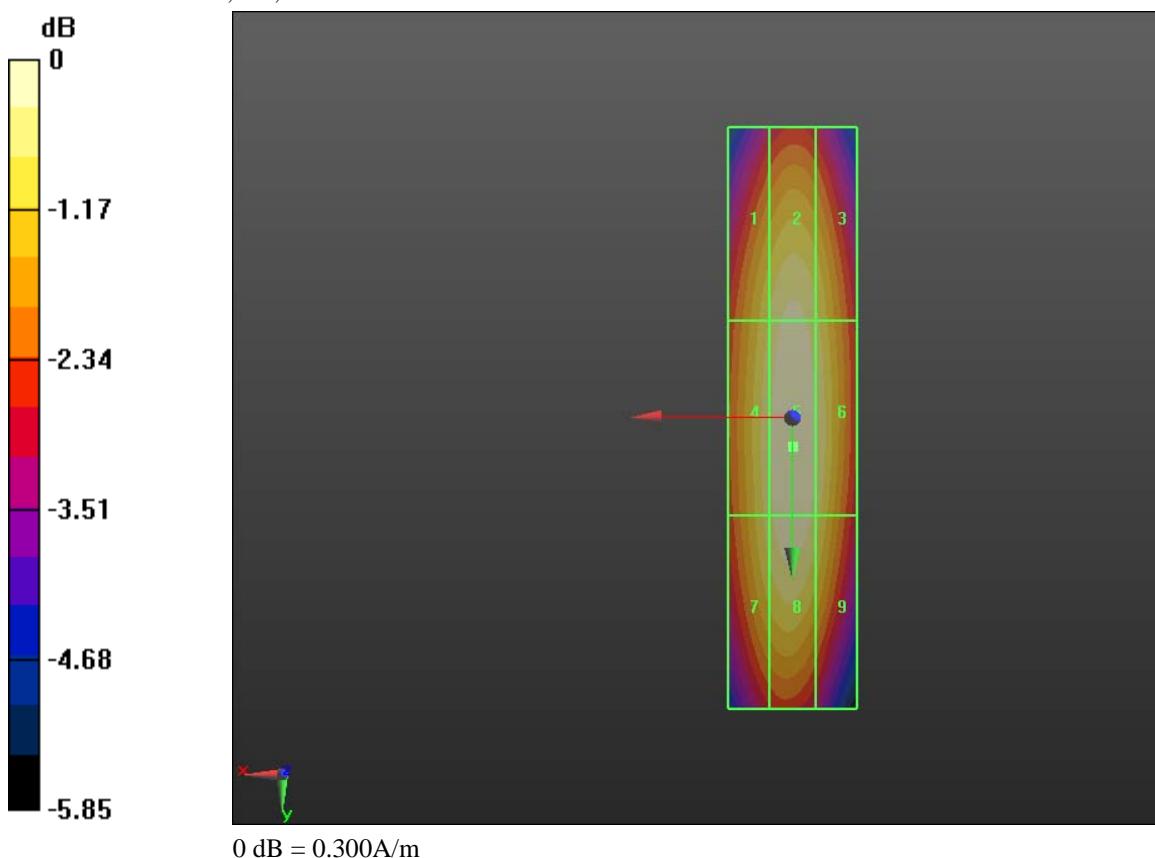
Grid 1	Grid 2	Grid 3
0.276 M4	0.292 M4	0.279 M4
Grid 4	Grid 5	Grid 6
0.286 M4	0.302 M4	0.289 M4
Grid 7	Grid 8	Grid 9
0.283 M4	0.299 M4	0.281 M4

Cursor:

Total = 0.302 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			49 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 12:47:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.451 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.479 A/m; Power Drift = -0.02 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

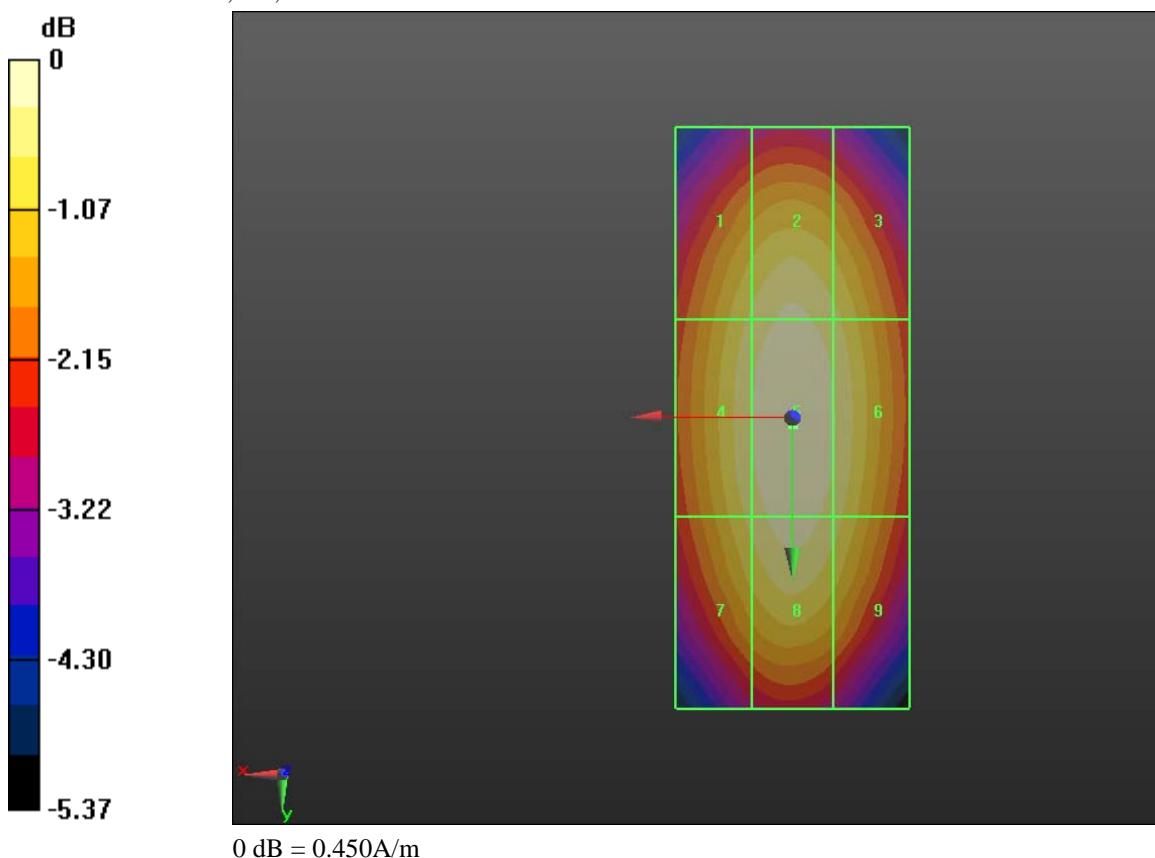
Grid 1	Grid 2	Grid 3
0.419 M2	0.436 M2	0.420 M2
Grid 4	Grid 5	Grid 6
0.432 M2	0.451 M2	0.434 M2
Grid 7	Grid 8	Grid 9
0.421 M2	0.442 M2	0.423 M2

Cursor:

Total = 0.451 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm



 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			51 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 1:03:25 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_GSM_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: GSM 1900; Frequency: 1880 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.099 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.105 A/m; Power Drift = 0.04 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

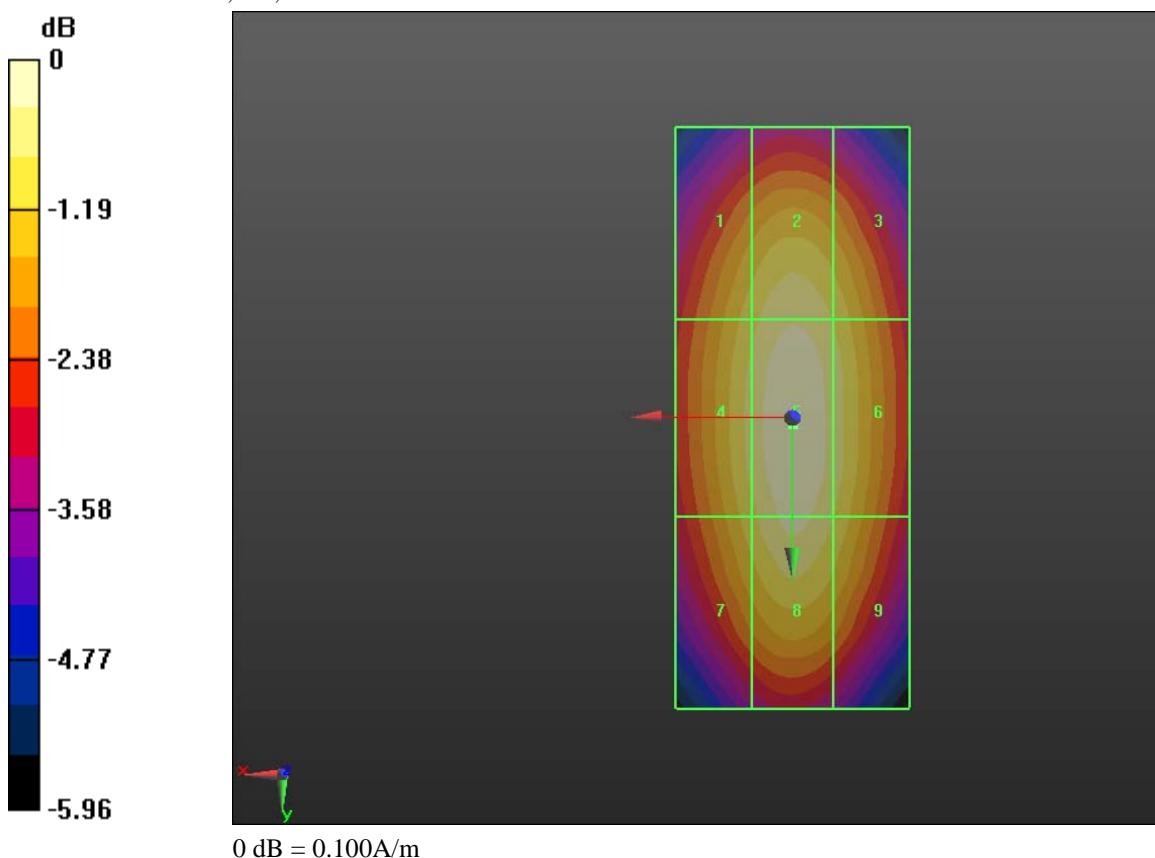
Grid 1	Grid 2	Grid 3
0.090 M4	0.095 M4	0.091 M4
Grid 4	Grid 5	Grid 6
0.093 M4	0.099 M4	0.094 M4
Grid 7	Grid 8	Grid 9
0.090 M4	0.097 M4	0.091 M4

Cursor:

Total = 0.099 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			53 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 12:41:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.284 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.302 A/m; Power Drift = -0.03 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

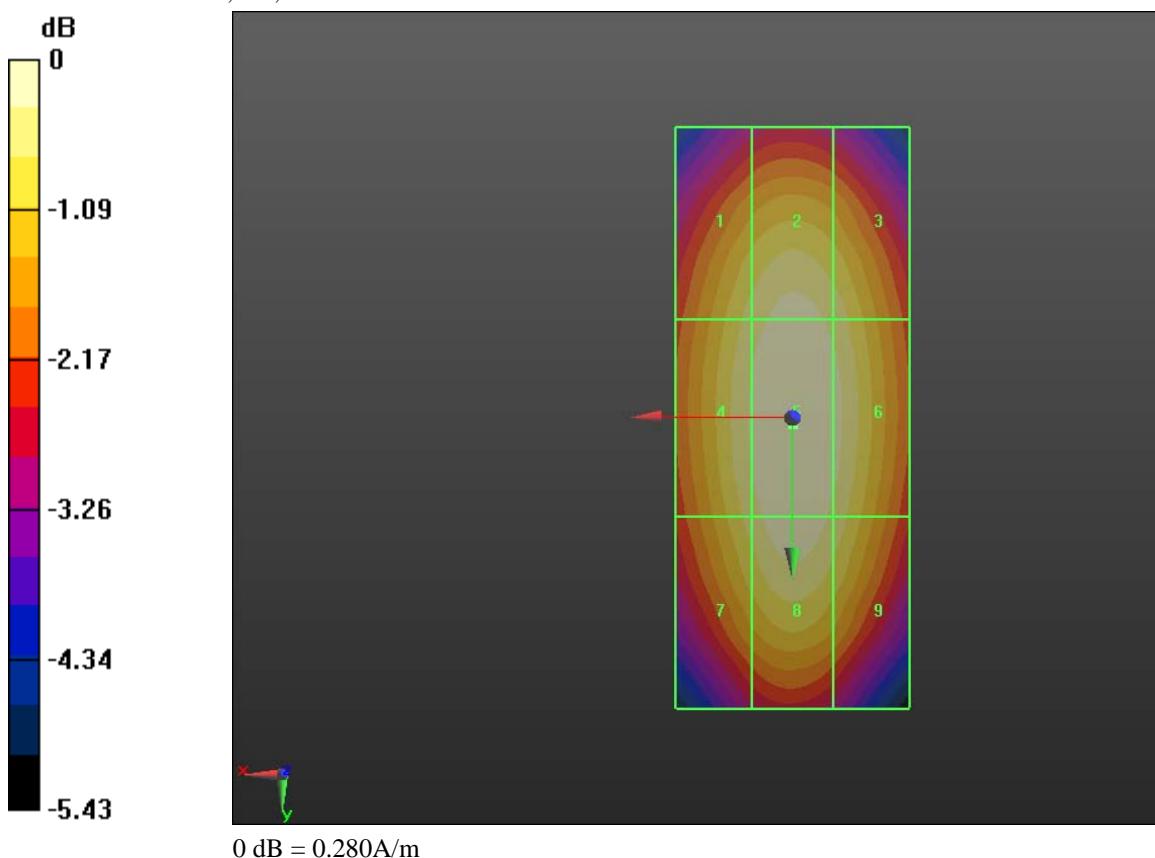
Grid 1	Grid 2	Grid 3
0.263 M3	0.274 M3	0.265 M3
Grid 4	Grid 5	Grid 6
0.271 M3	0.284 M3	0.274 M3
Grid 7	Grid 8	Grid 9
0.263 M3	0.278 M3	0.266 M3

Cursor:

Total = 0.284 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			55 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 3/23/2011 12:51:39 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%1880 MHz_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.184 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

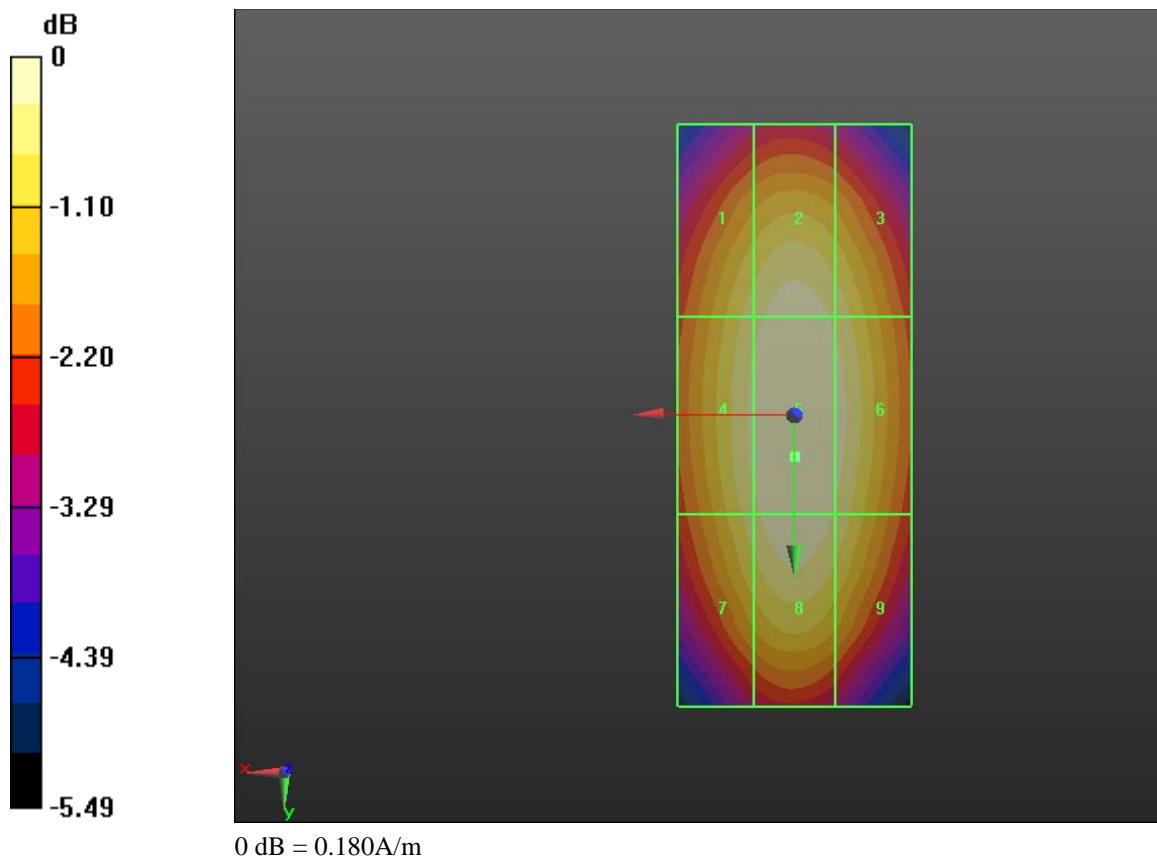
RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.170 M4	0.178 M4	0.171 M4
Grid 4	Grid 5	Grid 6
0.175 M4	0.184 M4	0.177 M4
Grid 7	Grid 8	Grid 9
0.170 M4	0.180 M4	0.172 M4



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW		
			Page 57 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 4/5/2011 3:15:31 PM, Date/Time: 4/5/2011 3:35:37 PM, Date/Time: 4/5/2011 3:50:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM80%; Communication System Band: 1733; Frequency: 1732.6 MHz, Frequency: 1733 MHz; Communication System PAR: 0 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 45.953 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 45.671 V/m; Power Drift = 0.0022 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

58 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
44.309 M4	45.897 M4	43.942 M4
Grid 4	Grid 5	Grid 6
32.194 M4	33.381 M4	32.650 M4

Grid 7	Grid 8	Grid 9
45.541 M4	45.953 M4	44.163 M4

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 44.684 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.777 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
42.576 M4	44.154 M4	42.558 M4
Grid 4	Grid 5	Grid 6
31.220 M4	32.494 M4	31.749 M4

Grid 7	Grid 8	Grid 9
44.140 M4	44.684 M4	42.994 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 59 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 28.697 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.666 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 27.579 M4	Grid 2 28.576 M4	Grid 3 27.503 M4
Grid 4 20.034 M4	Grid 5 20.866 M4	Grid 6 20.402 M4
Grid 7 28.387 M4	Grid 8 28.697 M4	Grid 9 27.712 M4

Author Data

Daoud Attayi

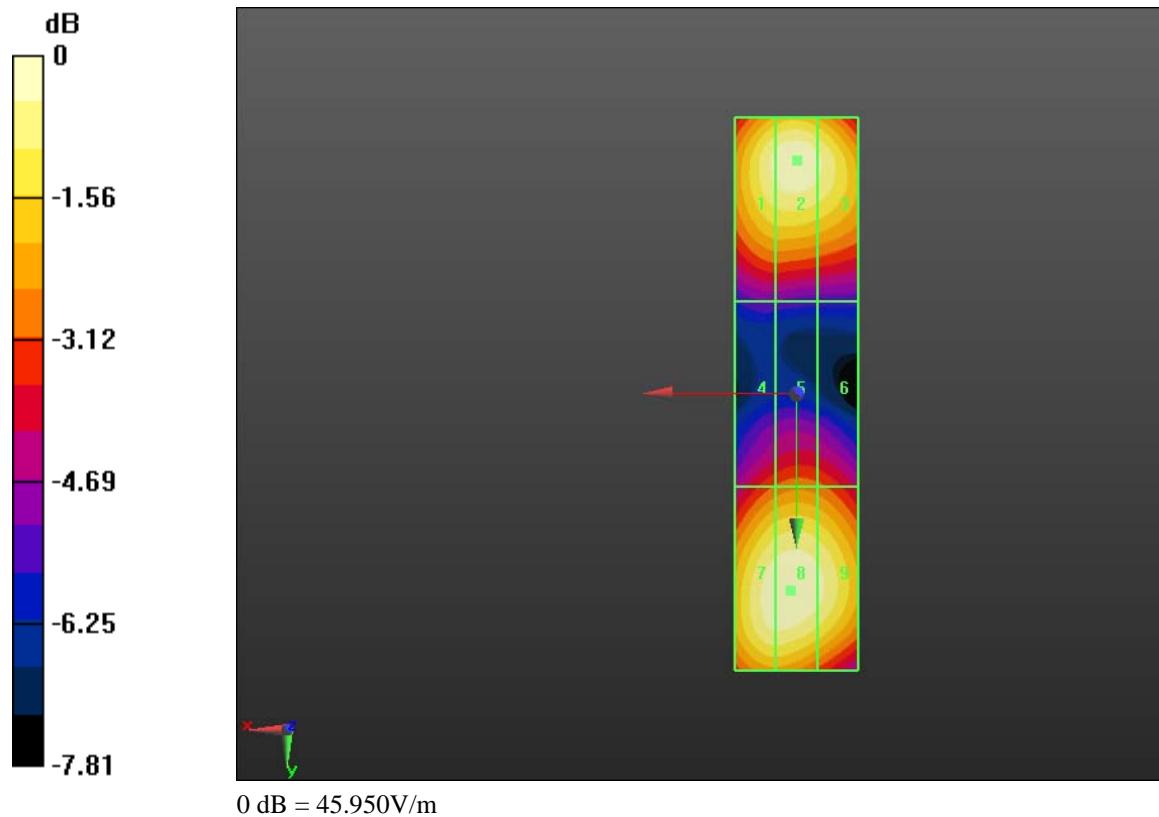
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 61 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 2:33:55 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 131.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.2 V/m; Power Drift = 0.06 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

62 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

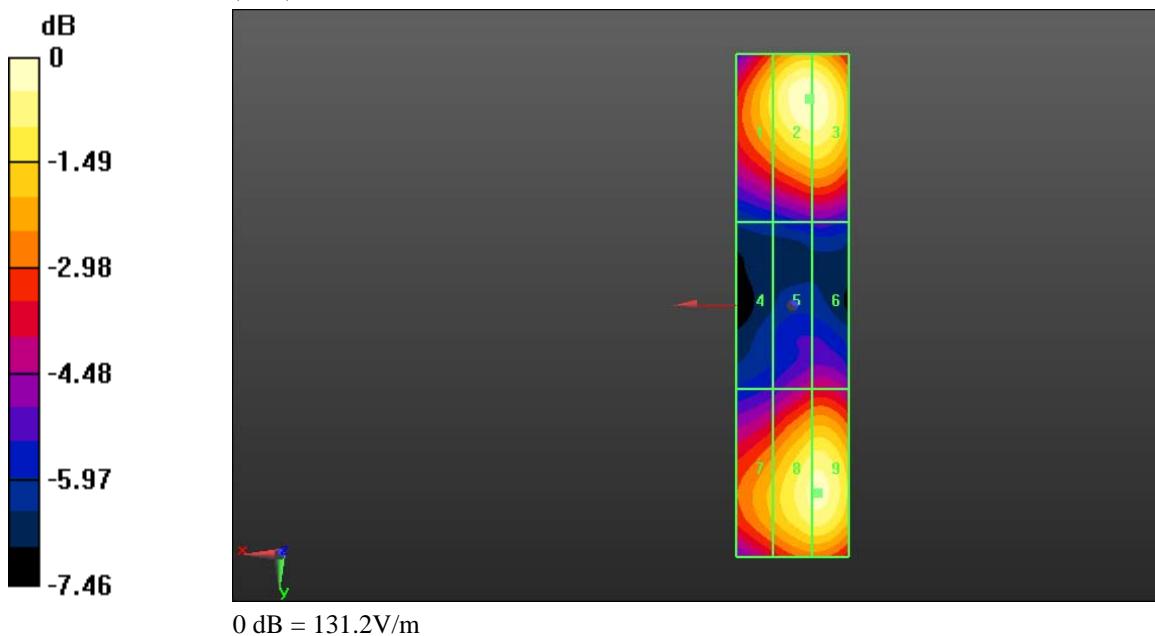
Grid 1	Grid 2	Grid 3
113.9 M2	131.2 M2	131.0 M2
Grid 4	Grid 5	Grid 6
71.642 M3	83.292 M3	84.259 M3
Grid 7	Grid 8	Grid 9
107.3 M3	126.1 M2	127.0 M2

Cursor:

Total = 131.2 V/m

E Category: M2

Location: -3, -37, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			63 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 4/5/2011 4:22:30 PM, Date/Time: 4/5/2011 4:37:10 PM, Date/Time: 4/5/2011 4:40:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW, Communication System: AM80%; Communication System Band: D1800 (1800.0 MHz); Frequency: 1732.6 MHz, Frequency: 1733 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field with H3DV6 probe/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 = 0.165 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.175 A/m; Power Drift = -0.0064 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

64 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.148 M4	0.156 M4	0.151 M4
Grid 4	Grid 5	Grid 6
0.156 M4	0.165 M4	0.159 M4
Grid 7	Grid 8	Grid 9
0.151 M4	0.160 M4	0.153 M4

Dipole H-Field with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.172 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.144 M4	0.151 M4	0.147 M4
Grid 4	Grid 5	Grid 6
0.152 M4	0.160 M4	0.155 M4
Grid 7	Grid 8	Grid 9
0.148 M4	0.156 M4	0.149 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 65 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Dipole H-Field with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.102 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.110 A/m; Power Drift = -0.04 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.091 M4	0.097 M4	0.093 M4
Grid 4	Grid 5	Grid 6
0.096 M4	0.102 M4	0.098 M4
Grid 7	Grid 8	Grid 9
0.093 M4	0.099 M4	0.094 M4

Author Data

Daoud Attayi

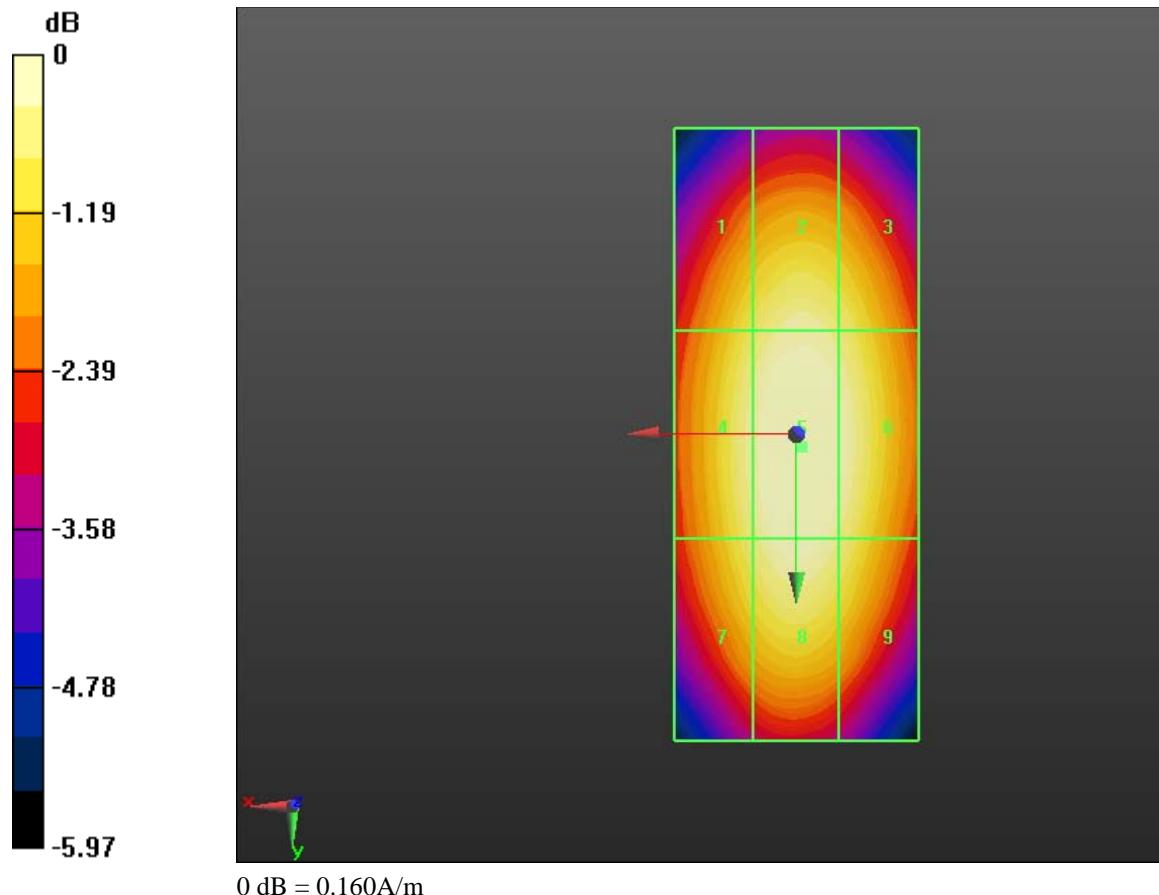
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 67 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 2:44:07 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.455 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.484 A/m; Power Drift = -0.02 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

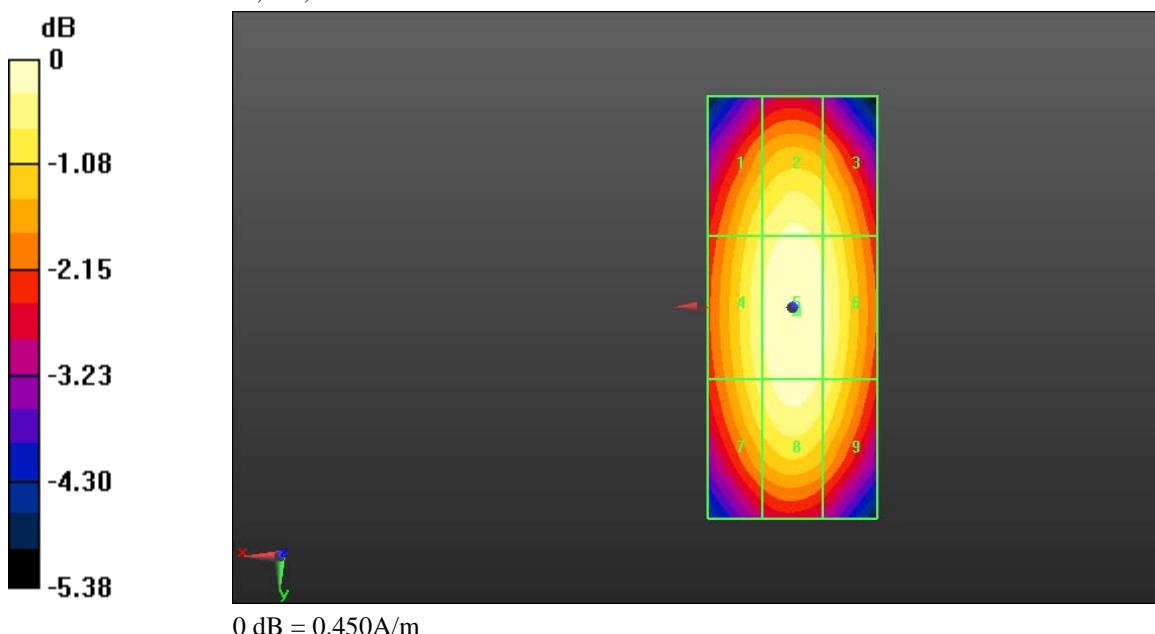
Grid 1	Grid 2	Grid 3
0.418 M2	0.437 M2	0.425 M2
Grid 4	Grid 5	Grid 6
0.432 M2	0.455 M2	0.439 M2
Grid 7	Grid 8	Grid 9
0.424 M2	0.445 M2	0.428 M2

Cursor:

Total = 0.455 A/m

H Category: M2

Location: -0.5, 0.5, 4.7 mm



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 69 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 7/11/2011 11:23:27 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 164.6 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 119.5 V/m; Power Drift = -0.18 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

70 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

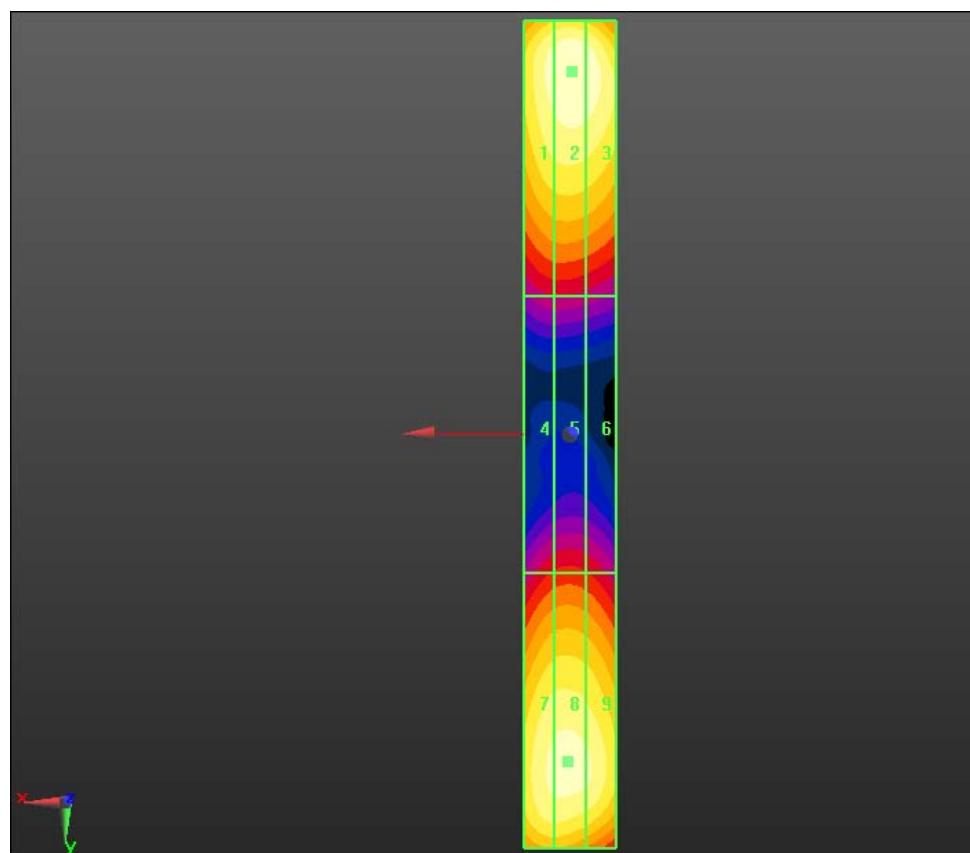
Grid 1	Grid 2	Grid 3
157.8 M4	164.6 M4	161.2 M4
Grid 4	Grid 5	Grid 6
83.084 M4	84.987 M4	82.687 M4
Grid 7	Grid 8	Grid 9
153.1 M4	155.5 M4	152.0 M4

Cursor:

Total = 164.6 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			71 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 7/11/2011 11:41:33 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 132.4 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.0 V/m; Power Drift = -0.01 dB

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

Peak E-field in V/m

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

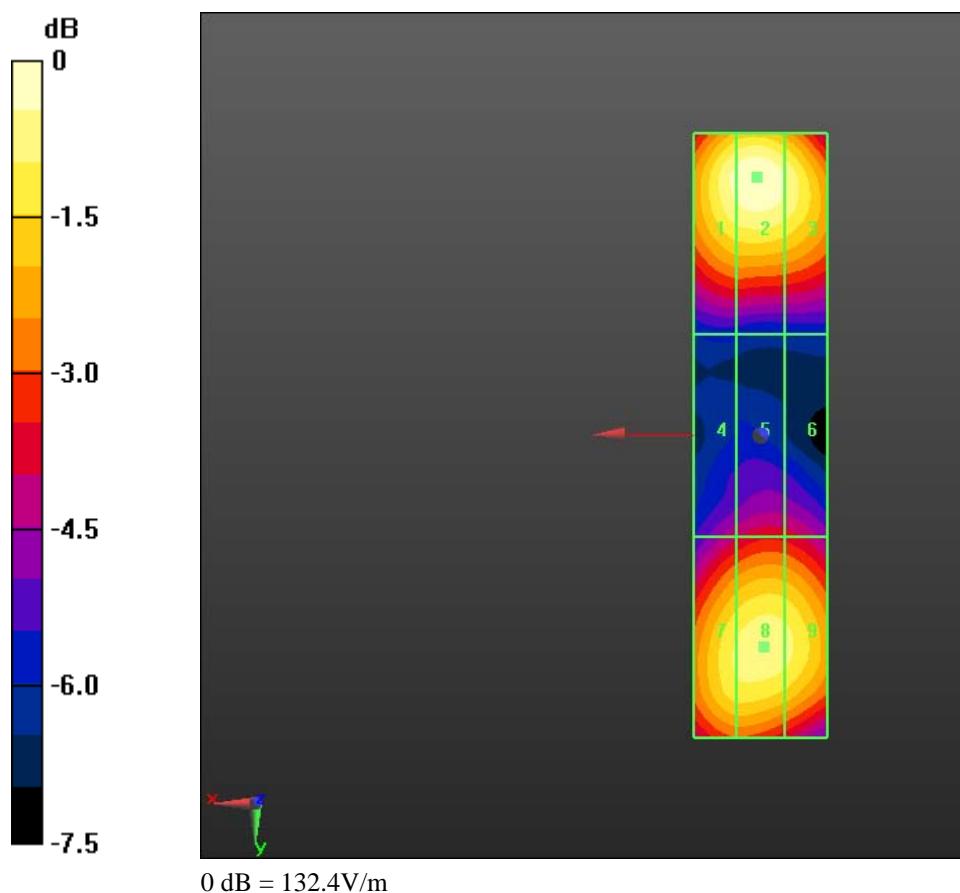
Grid 1 128.6 M2	Grid 2 132.4 M2	Grid 3 125.9 M2
Grid 4 82.565 M3	Grid 5 87.292 M3	Grid 6 86.553 M3
Grid 7 119.4 M2	Grid 8 122.5 M2	Grid 9 120.6 M2

Cursor:

Total = 132.4 V/m

E Category: M2

Location: 0.5, -38.5, 4.7 mm



Date/Time: 7/11/2011 2:26:24 PM

 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			73 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.469 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.495 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

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Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

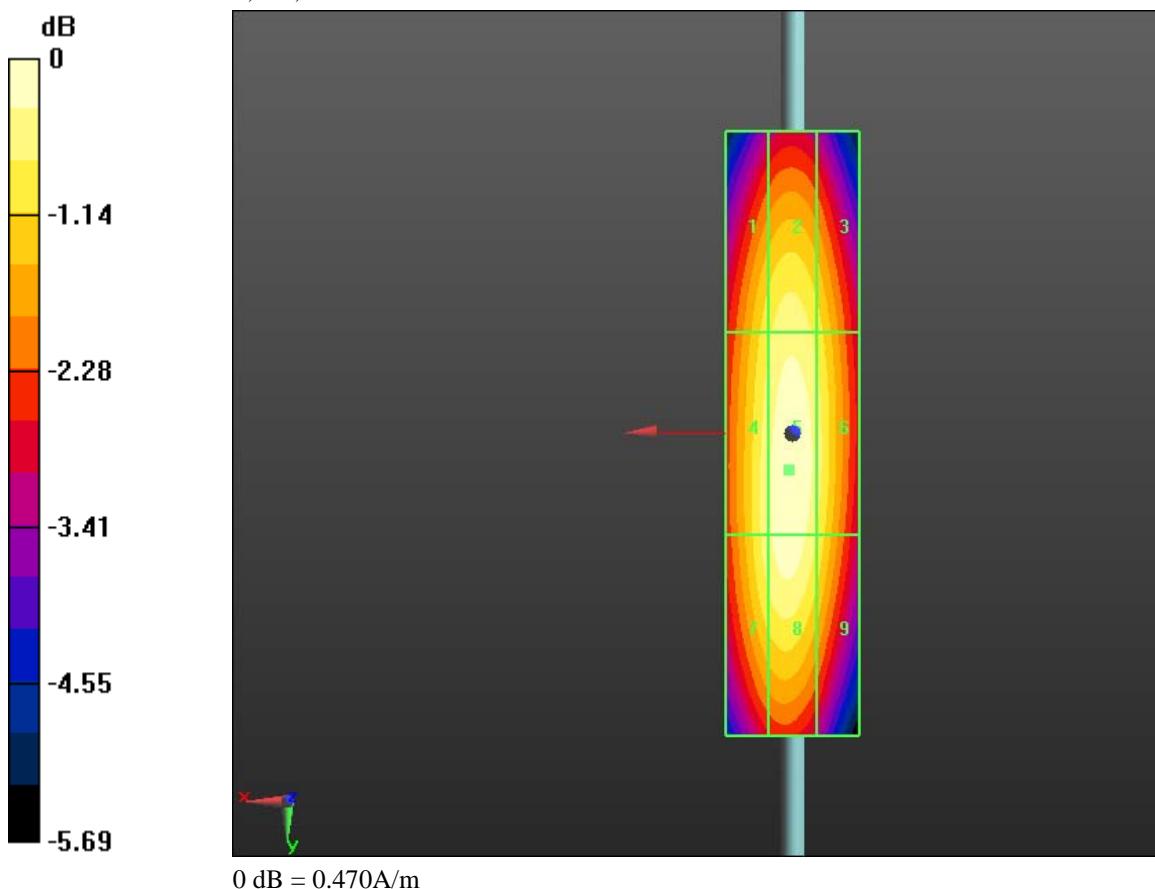
Grid 1	Grid 2	Grid 3
0.427 M4	0.444 M4	0.425 M4
Grid 4	Grid 5	Grid 6
0.448 M4	0.469 M4	0.443 M4
Grid 7	Grid 8	Grid 9
0.446 M4	0.463 M4	0.432 M4

Cursor:

Total = 0.469 A/m

H Category: M4

Location: 0.5, 5.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			75 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 7/11/2011 2:34:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.461 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.490 A/m; Power Drift = 0.02 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**
Peak H-field in A/m

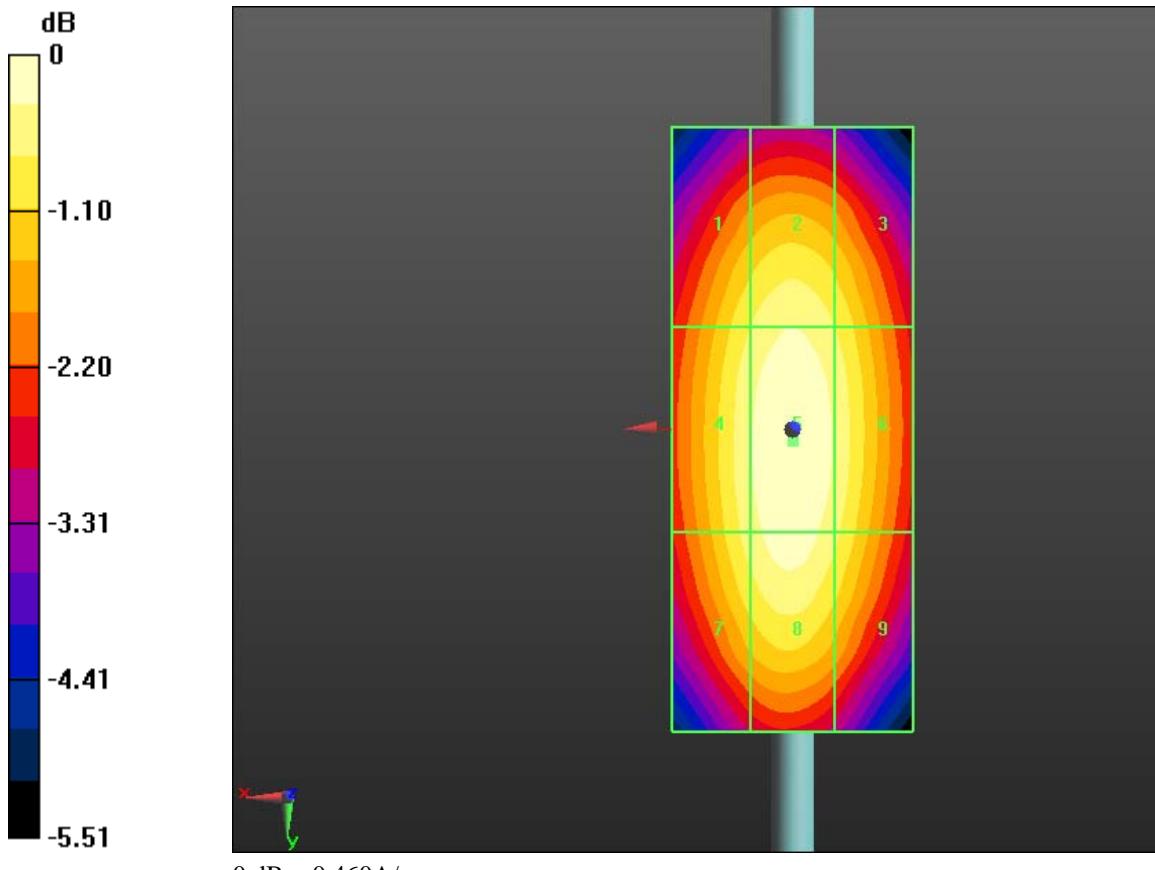
Grid 1	Grid 2	Grid 3
0.423 M2	0.441 M2	0.423 M2
Grid 4	Grid 5	Grid 6
0.439 M2	0.461 M2	0.439 M2
Grid 7	Grid 8	Grid 9
0.432 M2	0.453 M2	0.428 M2

Cursor:

Total = 0.461 A/m

H Category: M2

Location: 0, 1, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			77 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 1:07:46 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: WCDMA FDD V; Communication System Band:; Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 56.944 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.995 V/m; Power Drift = 0.01 dB

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

Peak E-field in V/m

Grid 1 53.505 M4	Grid 2 56.944 M4	Grid 3 56.718 M4
Grid 4 30.372 M4	Grid 5 31.039 M4	Grid 6 30.245 M4
Grid 7 54.971 M4	Grid 8 56.115 M4	Grid 9 54.501 M4

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Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

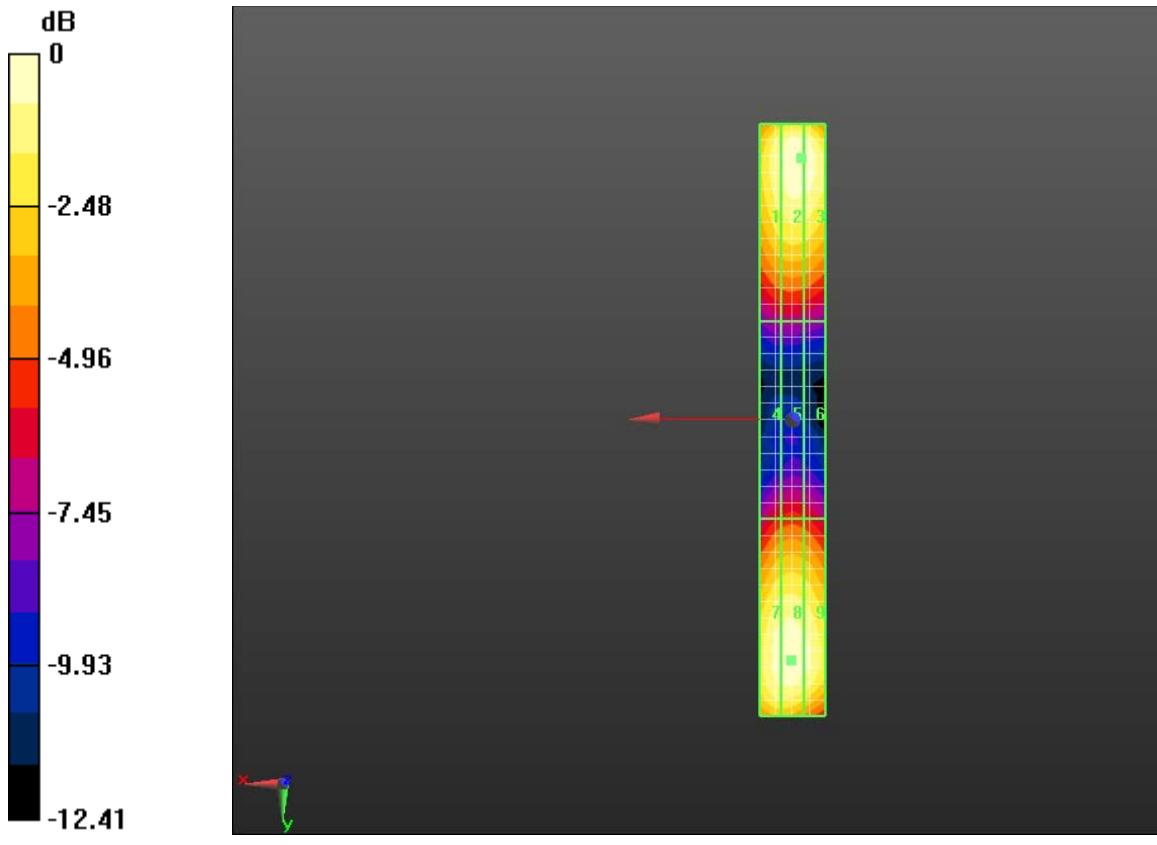
FCC ID

L6ARDD70UW**L6ARDX70UW****Cursor:**

Total = 56.944 V/m

E Category: M4

Location: -2.5, -79.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			79 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 12:43:40 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 57.608 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 42.622 V/m; Power Drift = -0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

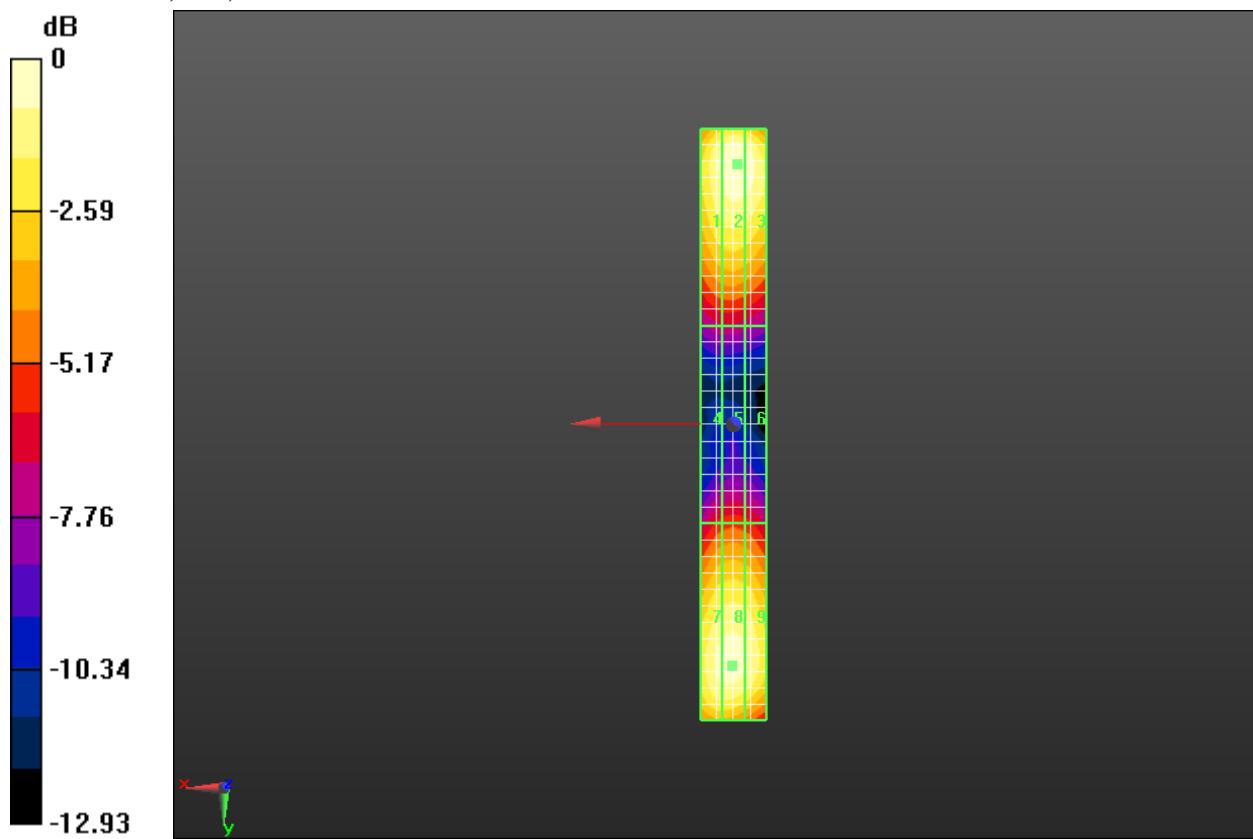
Grid 1	Grid 2	Grid 3
54.388 M4	57.608 M4	56.620 M4
Grid 4	Grid 5	Grid 6
30.355 M4	30.943 M4	30.261 M4
Grid 7	Grid 8	Grid 9
54.334 M4	55.102 M4	5076 M4

Cursor:

Total = 57.608 V/m

E Category: M4

Location: -1, -79, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			81 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 12:54:03 PM

Test Laboratory: RIM Testing Services

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 37.106 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 26.469 V/m; Power Drift = 0.17 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
35.158 M4	37.106 M4	36.227 M4
Grid 4	Grid 5	Grid 6
19.445 M4	19.878 M4	19.259 M4

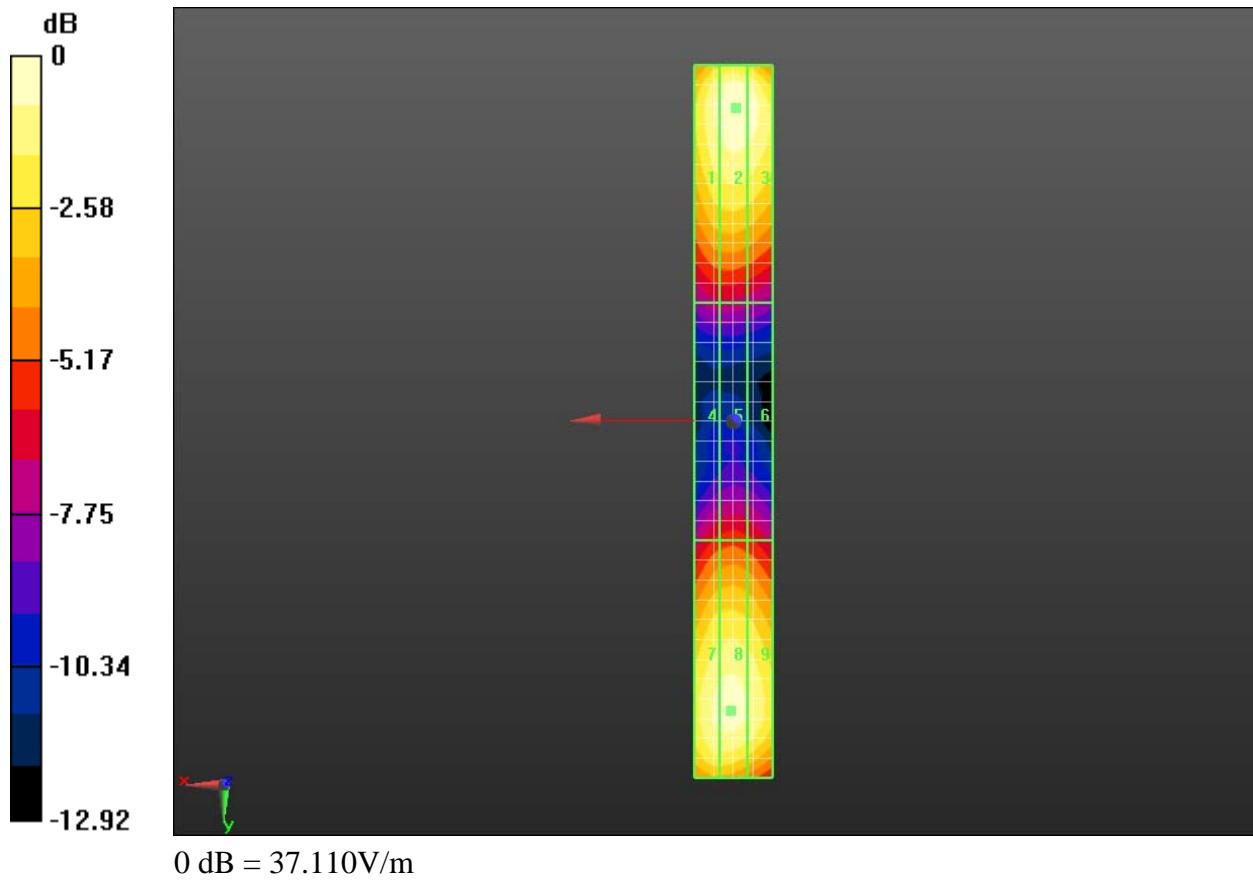
Grid 7	Grid 8	Grid 9
34.812 M4	35.203 M4	34.158 M4

Cursor:

Total = 37.106 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 83 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 6/21/2011 3:33:41 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW, Communication System: CDMA 850, Communication System: CDMA 800; Communication System Band: D835 (835.0 MHz), Communication System Band: CDMA 2000 Cellular, Communication System Band: CDMA 2000 BC 10 ; Frequency: 835 MHz, Frequency: 820.5 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan _CW_20dB_Validation - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 157.1 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 120.5 V/m; Power Drift = 0.01 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
--------	--------	--------

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Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

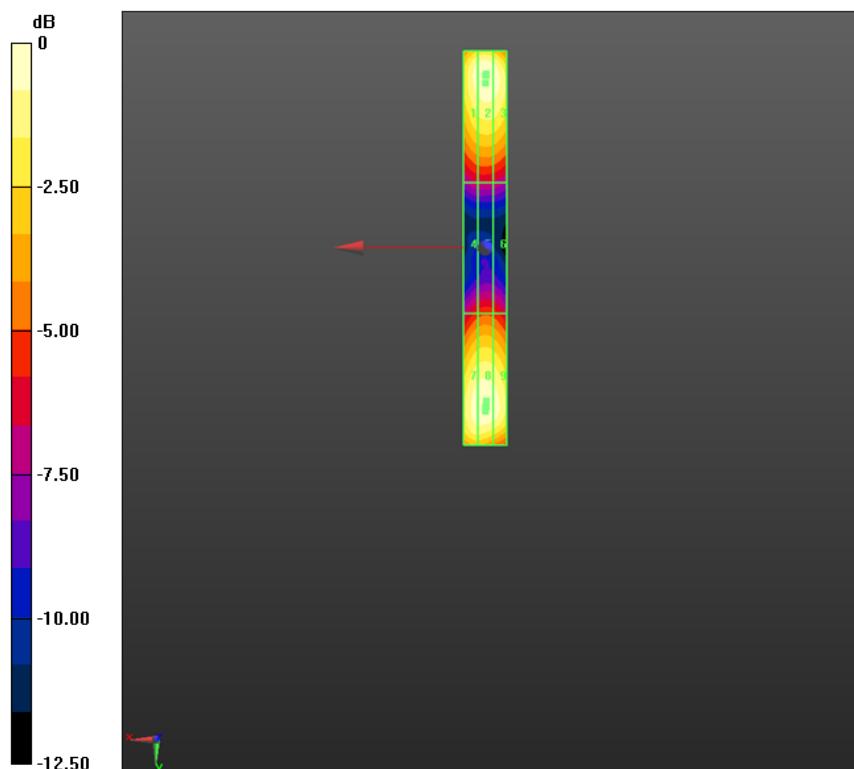
150.7 M4	157.1 M4	154.2 M4
Grid 4 84.223 M4	Grid 5 87.459 M4	Grid 6 85.298 M4
Grid 7 151.8 M4	Grid 8 155.1 M4	Grid 9 152.4 M4

Cursor:

Total = 157.1 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm



0 dB = 157.1V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 85 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 2/28/2011 2:07:15 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_PMF_UMTS_band_II_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial

Communication System: WCDMA FDD II;.; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 38.483 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.028 V/m; Power Drift = 0.10 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
36.706 M4	38.483 M4	37.337 M4
Grid 4	Grid 5	Grid 6
24.878 M4	25.643 M4	25.076 M4

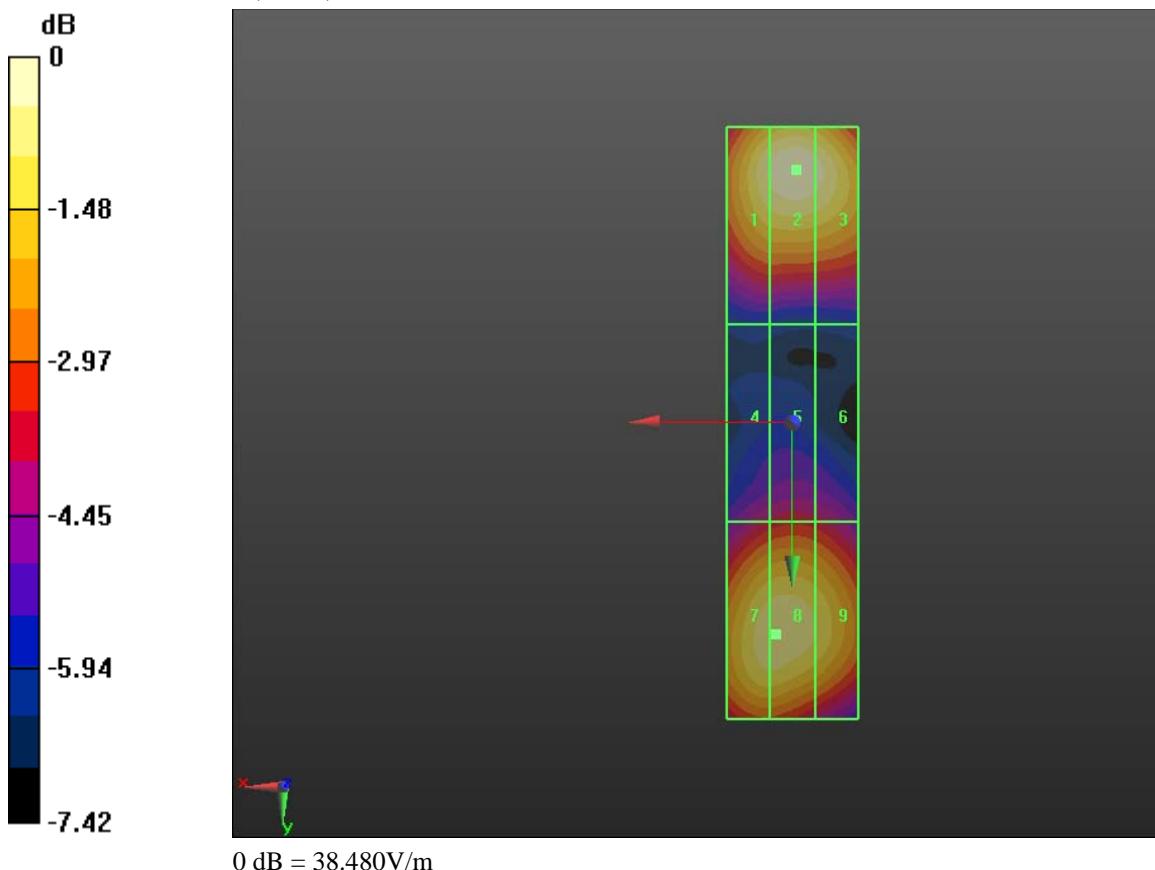
Grid 7	Grid 8	Grid 9
35.871 M4	35.988 M4	34.479 M4

Cursor:

Total = 38.483 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			87 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 2:16:59 PM

Test Laboratory: RIM Testing Services

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 43.024 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.861 V/m; Power Drift = 0.02 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**
Peak E-field in V/m

Grid 1	Grid 2	Grid 3
40.897 M4	43.024 M4	41.671 M4
Grid 4	Grid 5	Grid 6
27.919 M4	28.886 M4	28.274 M4

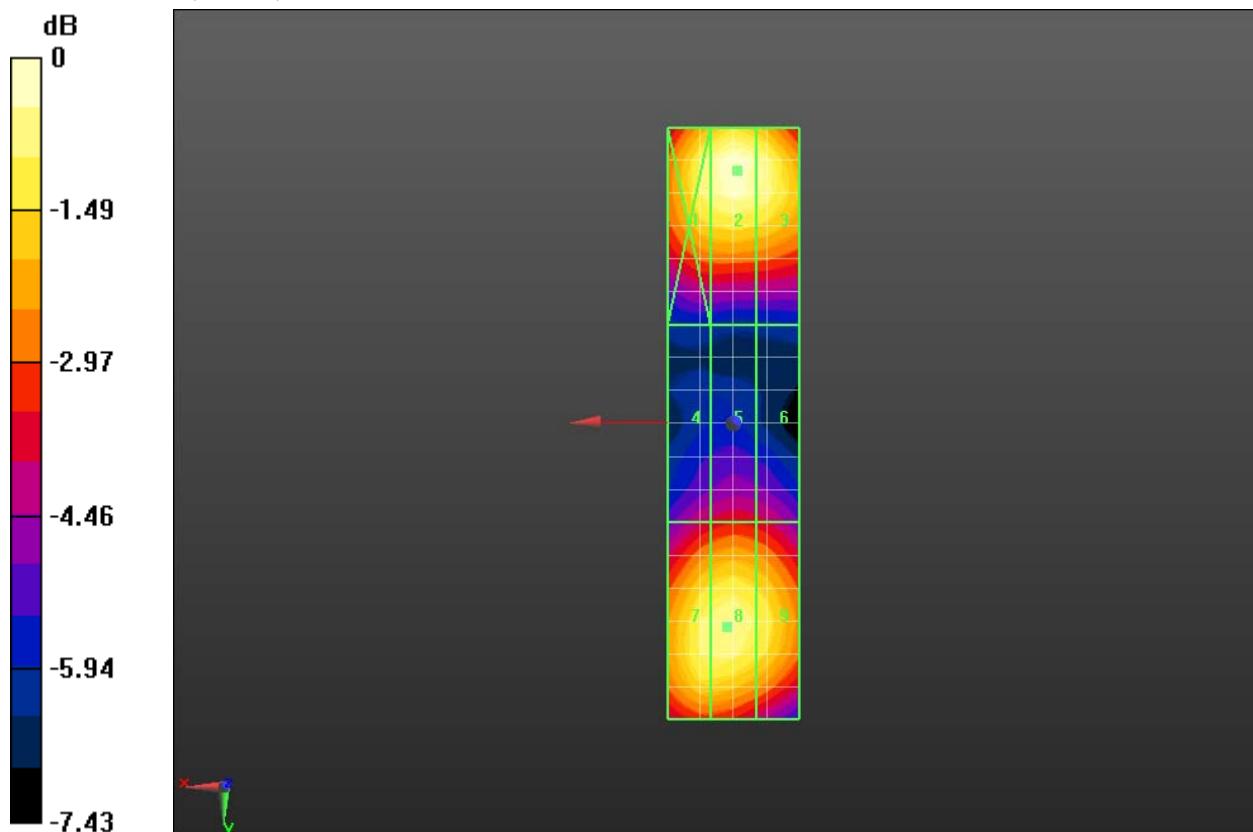
Grid 7	Grid 8	Grid 9
39.759 M4	40.082 M4	38.641 M4

Cursor:

Total = 43.024 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 89 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 2/28/2011 2:21:55 PM

Test Laboratory: RIM Testing Services

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 27.543 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.024 V/m; Power Drift = -0.0069 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

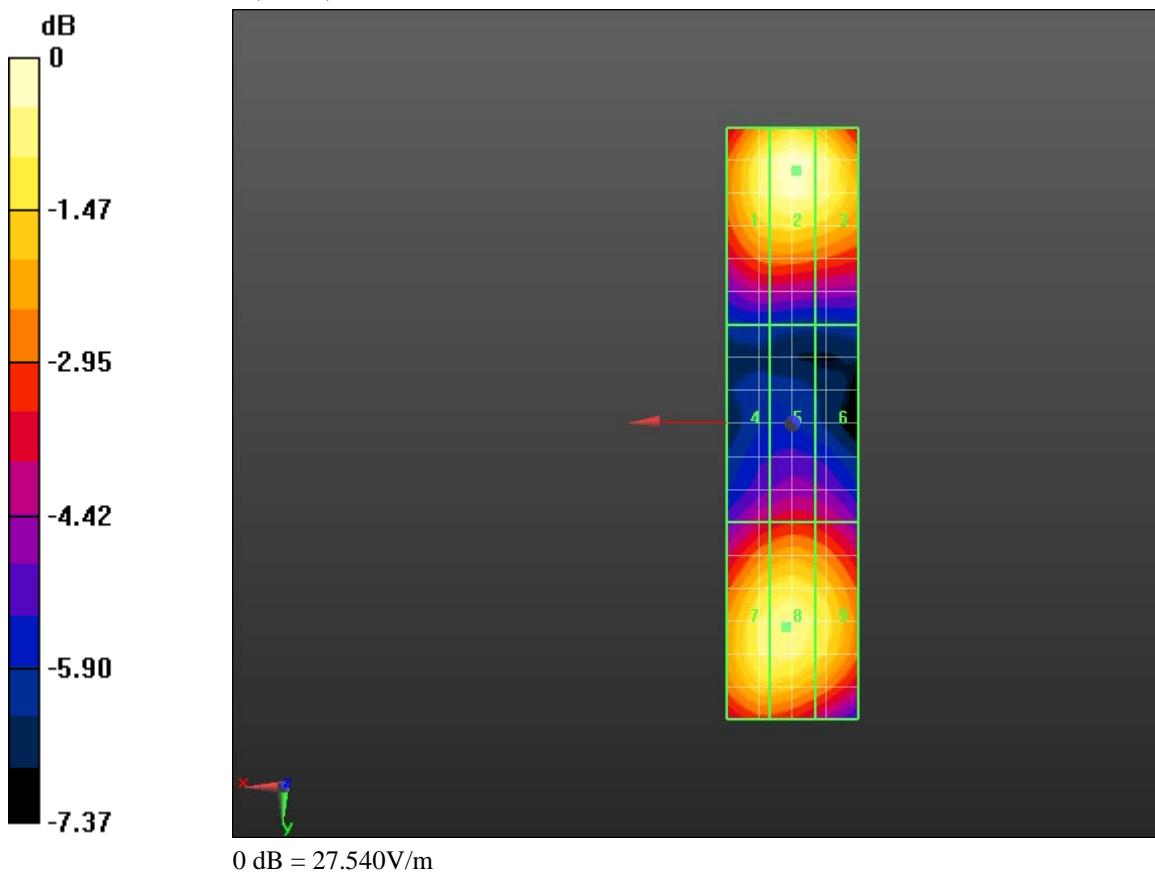
Grid 1	Grid 2	Grid 3
26.151 M4	27.543 M4	26.639 M4
Grid 4	Grid 5	Grid 6
17.904 M4	18.574 M4	18.189 M4
Grid 7	Grid 8	Grid 9
25.506 M4	25.701 M4	24.770 M4

Cursor:

Total = 27.543 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 91 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 6/21/2011 5:50:59 PM, Date/Time: 6/21/2011 6:15:20 PM, Date/Time: 6/21/2011 6:18:51 PM, Date/Time: 6/21/2011 6:28:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW, Communication System: CDMA 1900; Communication System Band: D1900 (1900.0 MHz), Communication System Band: CDMA 2000 PCS; Frequency: 1880 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - 1880_validation_measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 133.7 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.4 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

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Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

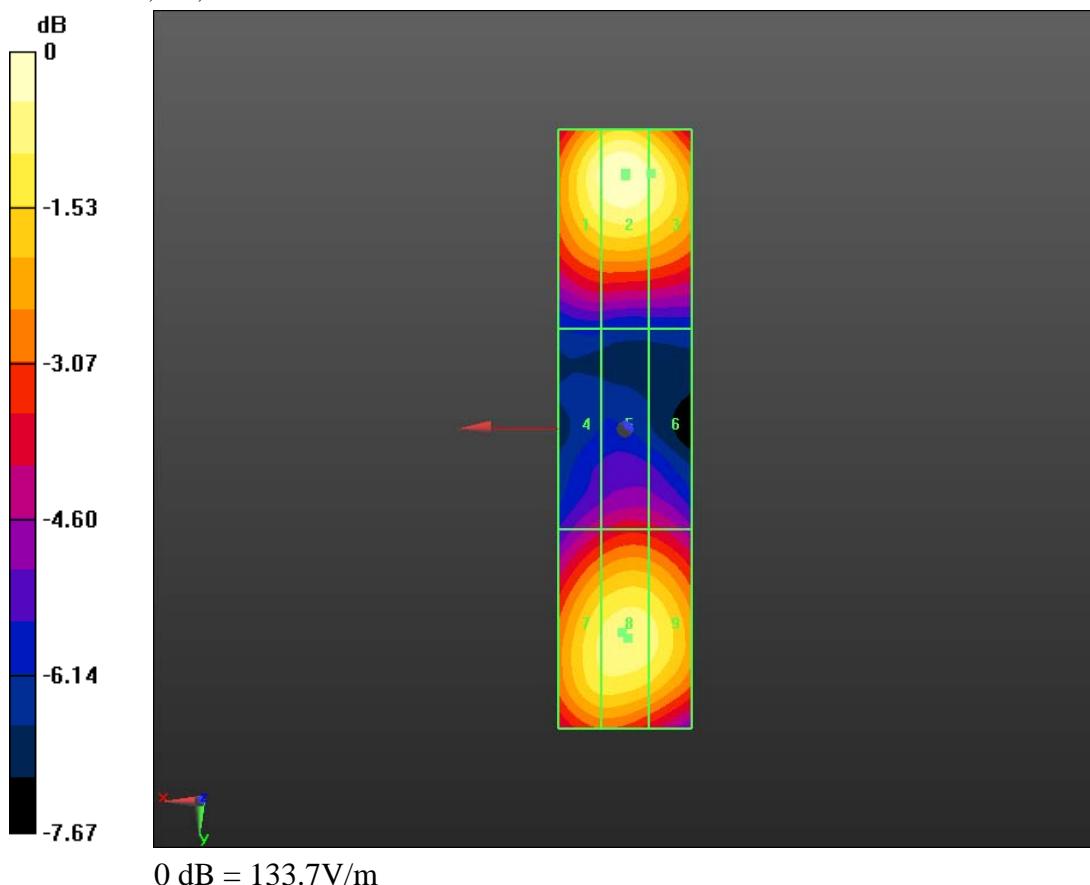
FCC ID

L6ARDD70UW**L6ARDX70UW**

Grid 1 128.8 M2	Grid 2 133.7 M2	Grid 3 127.5 M2
Grid 4 82.667 M3	Grid 5 87.106 M3	Grid 6 86.101 M3
Grid 7 120.7 M2	Grid 8 123.8 M2	Grid 9 121.9 M2

Cursor:

Total = 133.7 V/m
 E Category: M2
 Location: 0, -38, 4.7 mm



 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			93 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 3:32:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS_band V_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: WCDMA FDD V; ; Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.168 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.178 A/m; Power Drift = 0.23 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

94 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.153 M4	0.160 M4	0.154 M4
Grid 4	Grid 5	Grid 6
0.160 M4	0.168 M4	0.161 M4
Grid 7	Grid 8	Grid 9
0.159 M4	0.166 M4	0.157 M4

Author Data

Daoud Attayi

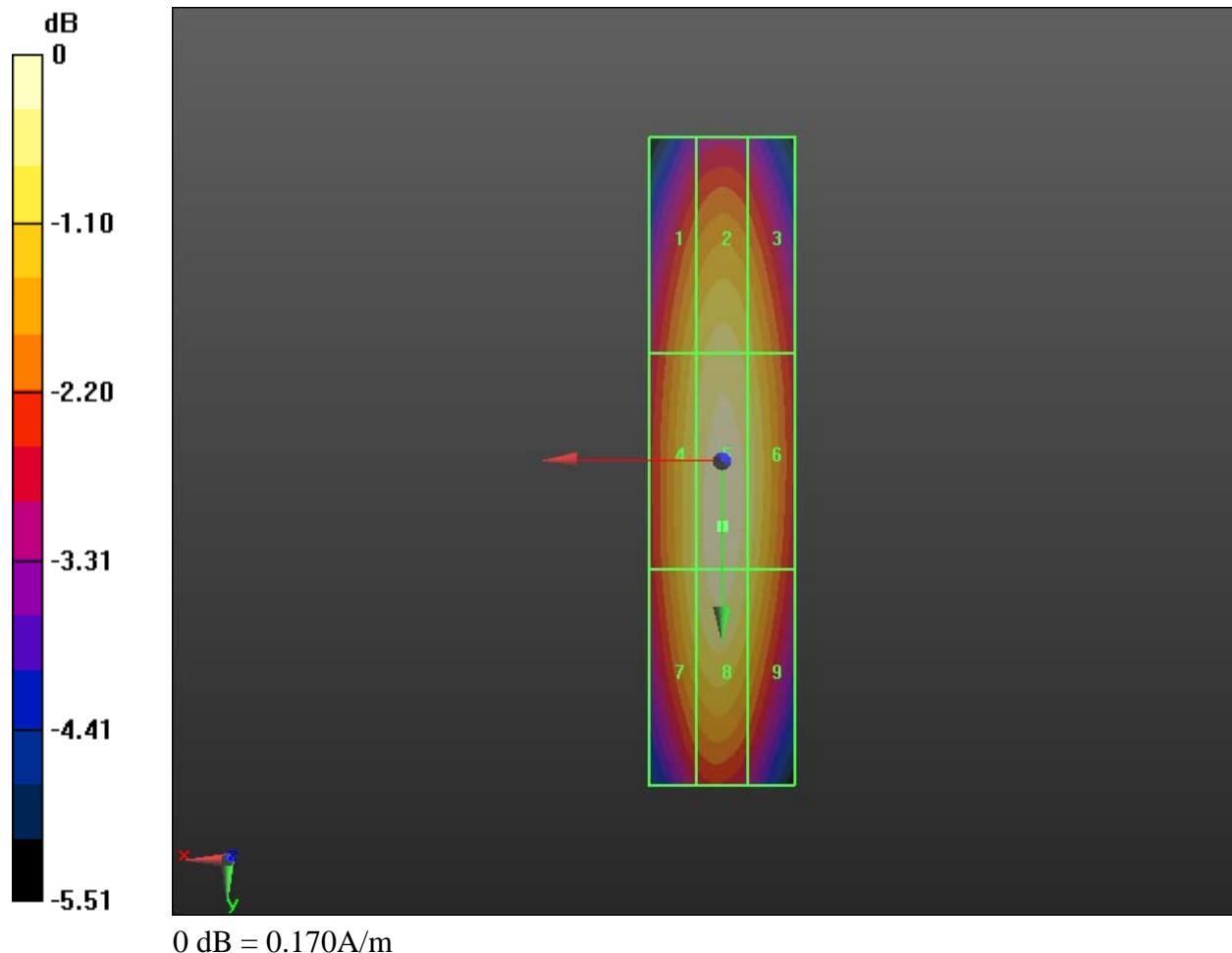
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			96 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 3:41:08 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.166 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.177 A/m; Power Drift = -0.10 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

97 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.151 M4	0.158 M4	0.151 M4
Grid 4 0.157 M4	Grid 5 0.166 M4	Grid 6 0.159 M4
Grid 7 0.156 M4	Grid 8 0.164 M4	Grid 9 0.155 M4

Author Data

Daoud Attayi

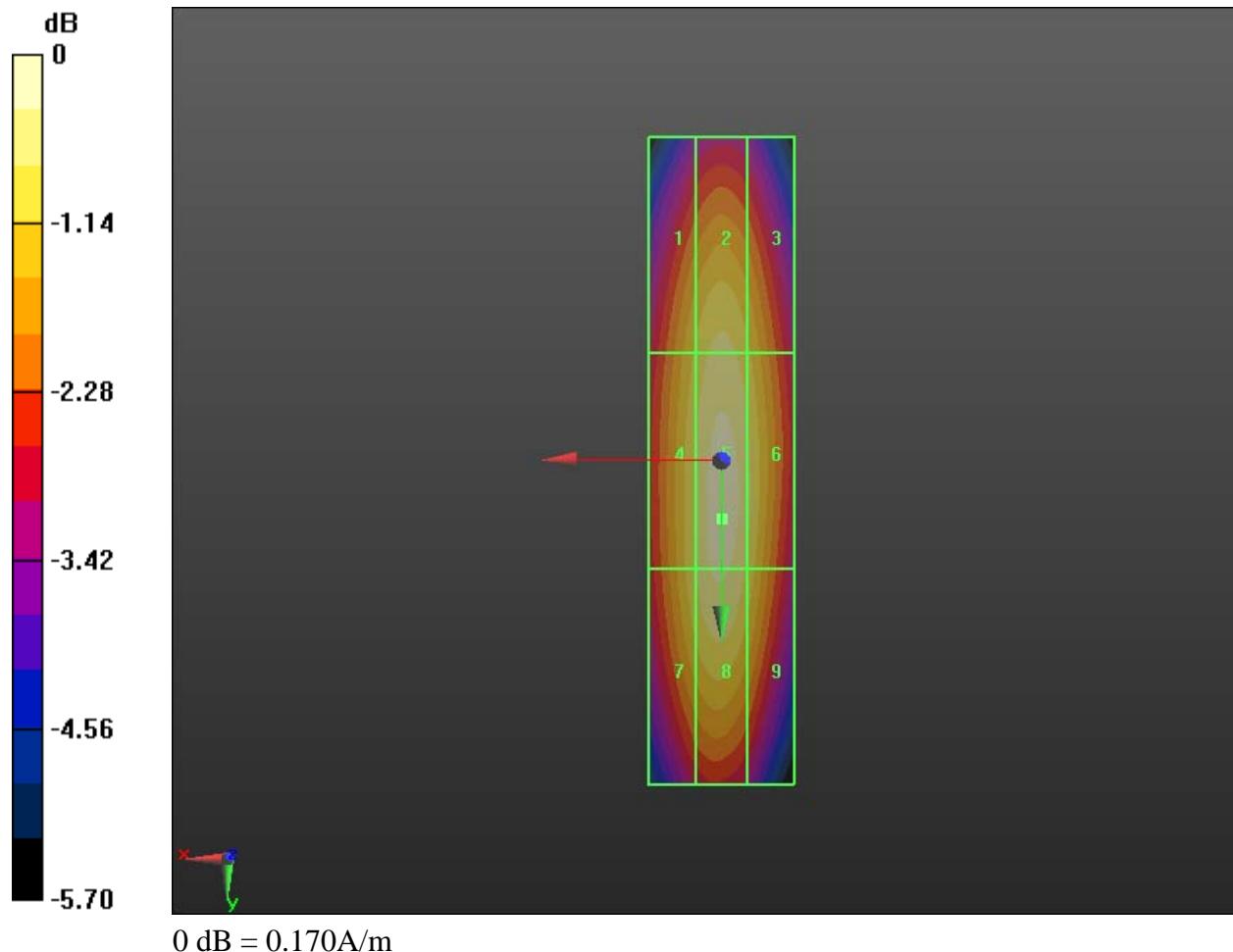
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			99 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 3:45:30 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%; Communication System Band: D835 (835.0 MHz);

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.106 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.113 A/m; Power Drift = 0.0097 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 100 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.096 M4	0.100 M4	0.096 M4
Grid 4	Grid 5	Grid 6
0.100 M4	0.106 M4	0.101 M4
Grid 7	Grid 8	Grid 9
0.100 M4	0.104 M4	0.098 M4

Author Data

Daoud Attayi

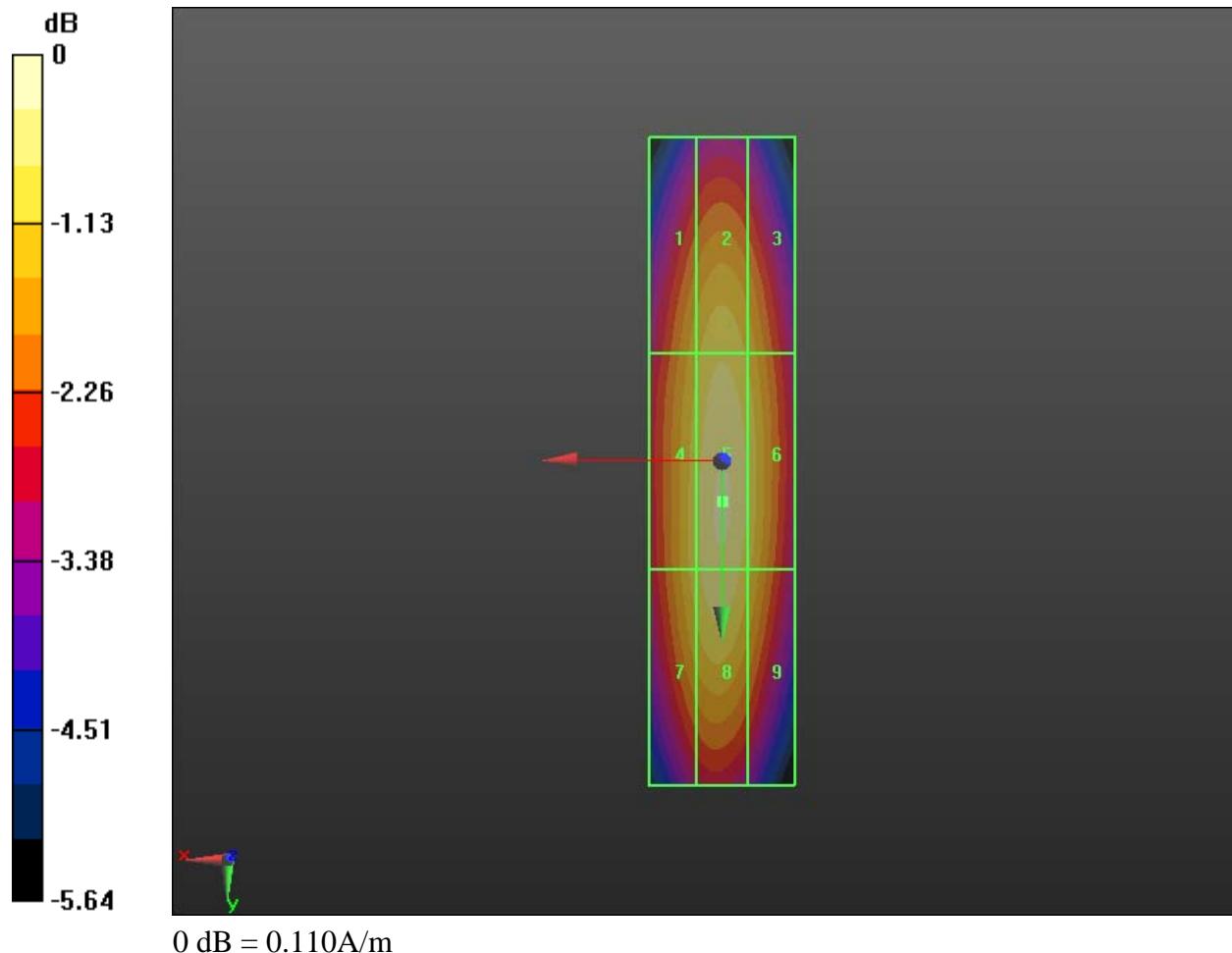
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 102 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 6/21/2011 7:48:33 PM, Date/Time: 6/21/2011 8:22:00 PM, Date/Time: 6/21/2011 8:16:49 PM, Date/Time: 6/21/2011 8:33:50 PM, Date/Time: 6/21/2011 8:40:52 PM, Date/Time: 6/21/2011 9:18:56 PM, Date/Time: 6/21/2011 9:00:35 PM, Date/Time: 6/21/2011 9:07:05 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_835 MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW, Communication System: CDMA 800, Communication System: CDMA 850; Communication System Band: D835 (835.0 MHz), Communication System Band: CDMA 2000 BC 10, Communication System Band: CDMA 2000 Cellular; Frequency: 835 MHz, Frequency: 820.5 MHz, Frequency: 836.52 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid

Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.479 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.509 A/m; Power Drift = -0.07 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

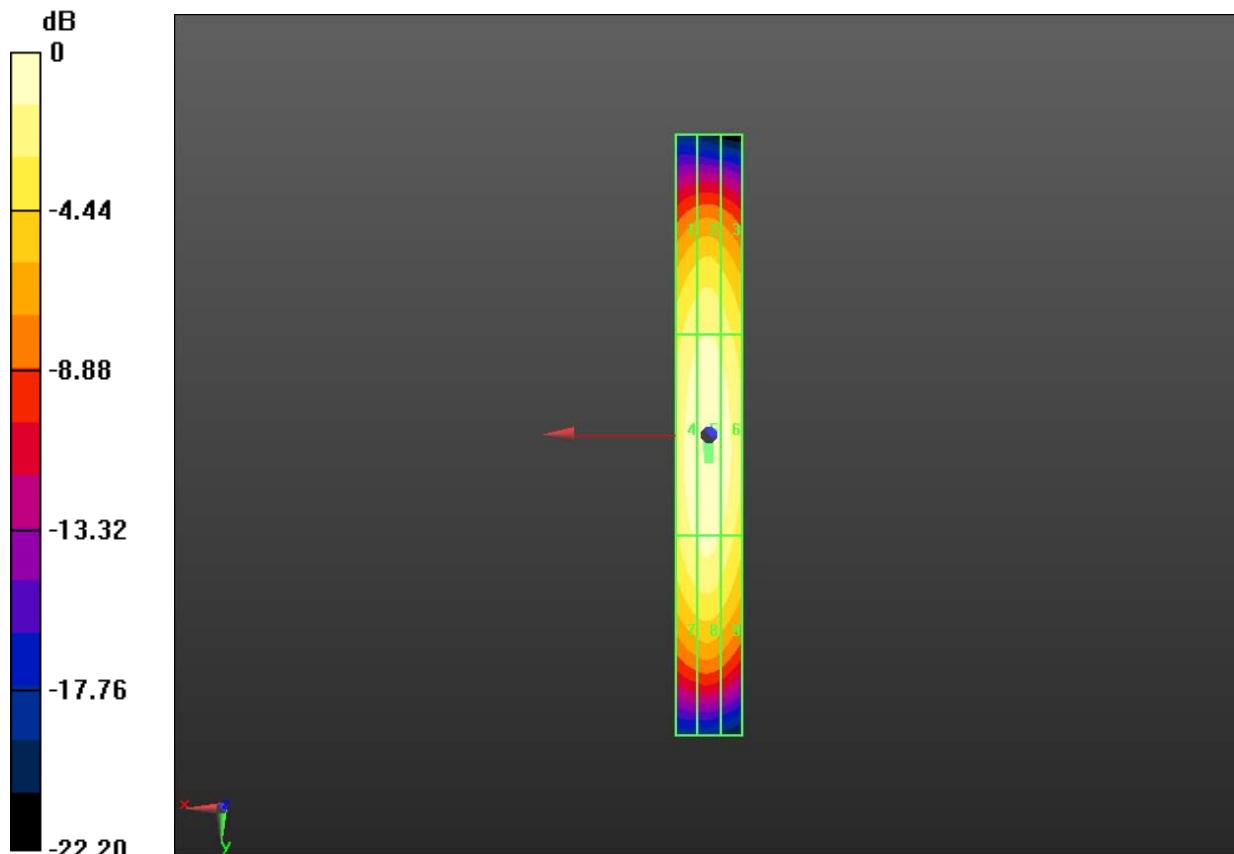
Grid 1	Grid 2	Grid 3
0.393 M4	0.406 M4	0.381 M4
Grid 4	Grid 5	Grid 6
0.459 M4	0.479 M4	0.450 M4
Grid 7	Grid 8	Grid 9
0.419 M4	0.435 M4	0.399 M4

Cursor:

Total = 0.479 A/m

H Category: M4

Location: 0.5, 1.5, 4.7 mm



0 dB = 0.480A/m

 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			104 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 2:57:08 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_UMTS_band II_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD II; ; Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.138 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.147 A/m; Power Drift = 0.04 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

105 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.127 M4	0.134 M4	0.128 M4
Grid 4	Grid 5	Grid 6
0.132 M4	0.138 M4	0.132 M4
Grid 7	Grid 8	Grid 9
0.129 M4	0.136 M4	0.127 M4

Author Data

Daoud Attayi

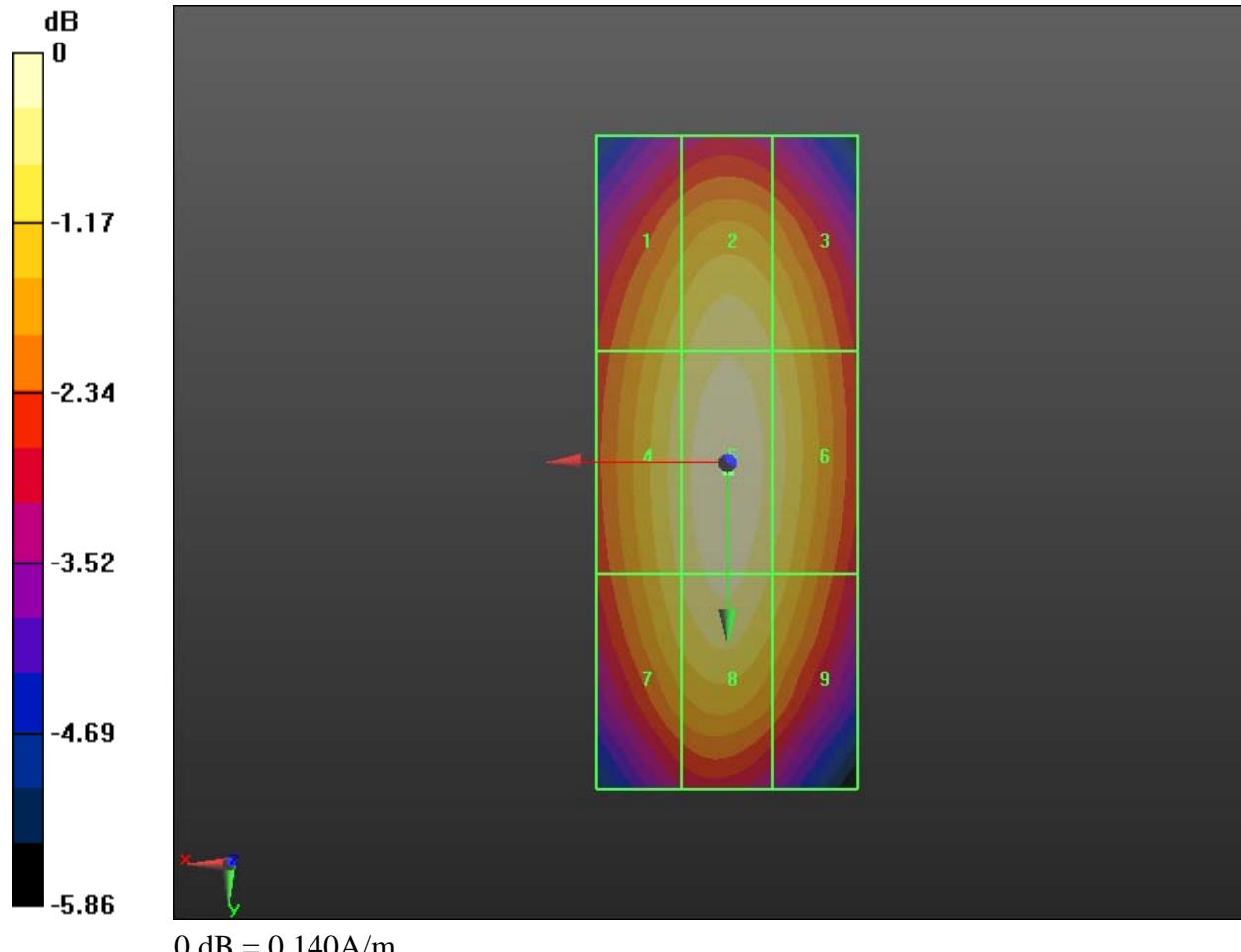
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			107 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 2:40:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_CW1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.155 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.163 A/m; Power Drift = 0.06 dB

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

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 108 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1 0.142 M4	Grid 2 0.149 M4	Grid 3 0.144 M4
Grid 4 0.147 M4	Grid 5 0.155 M4	Grid 6 0.148 M4
Grid 7 0.143 M4	Grid 8 0.151 M4	Grid 9 0.143 M4

Author Data

Daoud Attayi

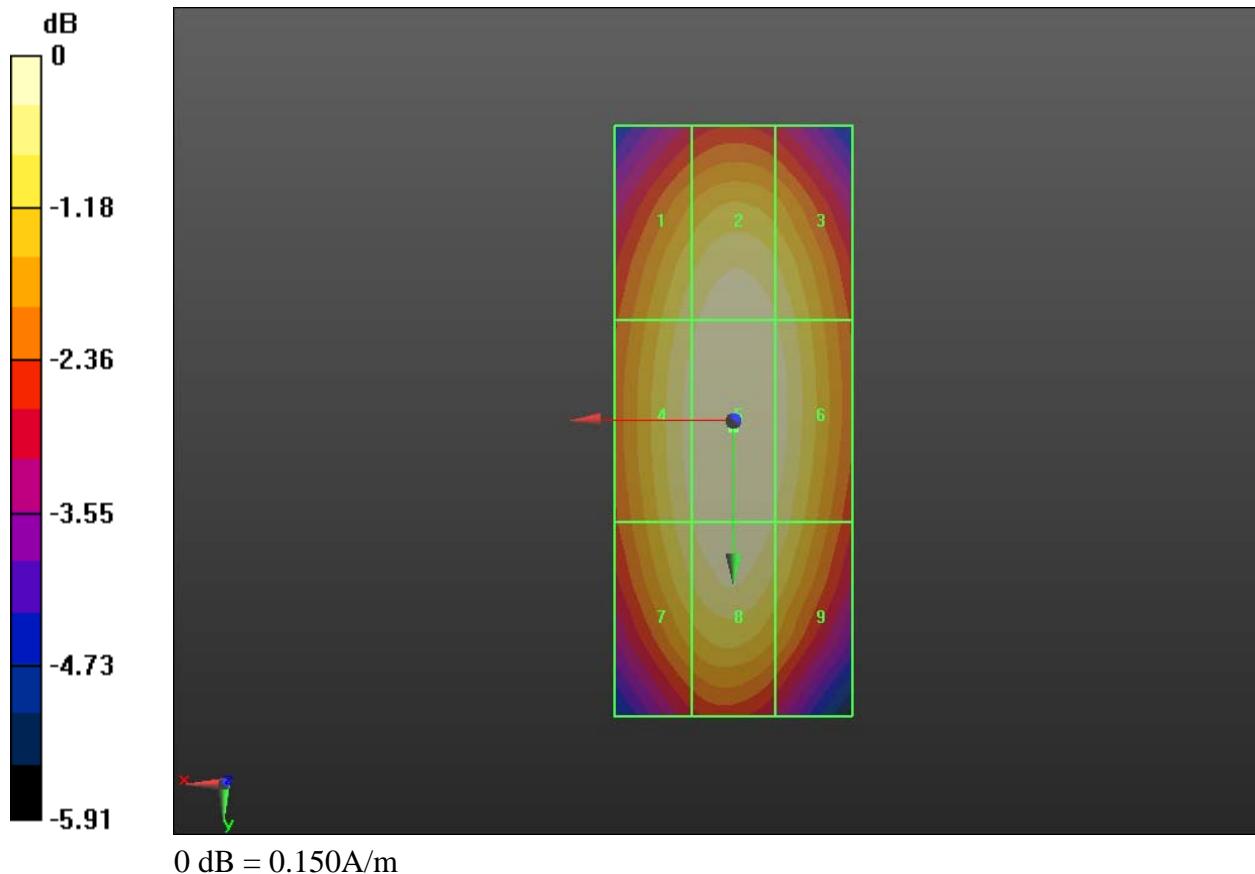
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			110 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 2/28/2011 2:44:44 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_PMF_AM80%1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: AM 80%; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: TCoil Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn881; Calibrated: 4/19/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.099 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.106 A/m; Power Drift = 0.0091 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

111 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.091 M4	0.096 M4	0.092 M4
Grid 4	Grid 5	Grid 6
0.094 M4	0.099 M4	0.095 M4
Grid 7	Grid 8	Grid 9
0.092 M4	0.097 M4	0.091 M4

Author Data

Daoud Attayi

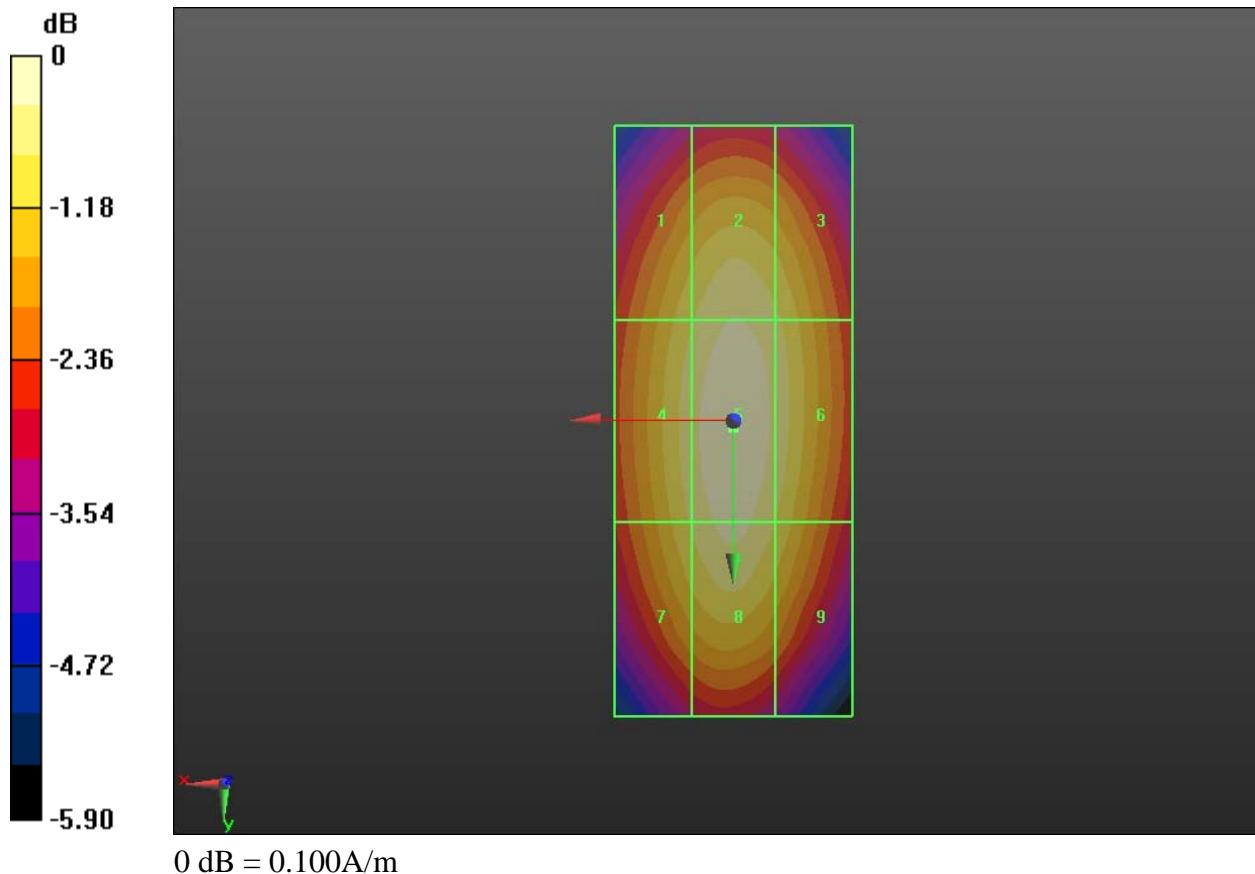
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 113 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 6/21/2011 7:14:02 PM, Date/Time: 6/21/2011 7:19:36 PM, Date/Time: 6/21/2011 7:30:34 PM, Date/Time: 6/21/2011 7:37:59 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_PMF_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1880 MHz; Communication System PAR: 0, Communication System PAR: 9.19 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole H-Field measurement with H3DV6 probe/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 = 0.466 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.494 A/m; Power Drift = -0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

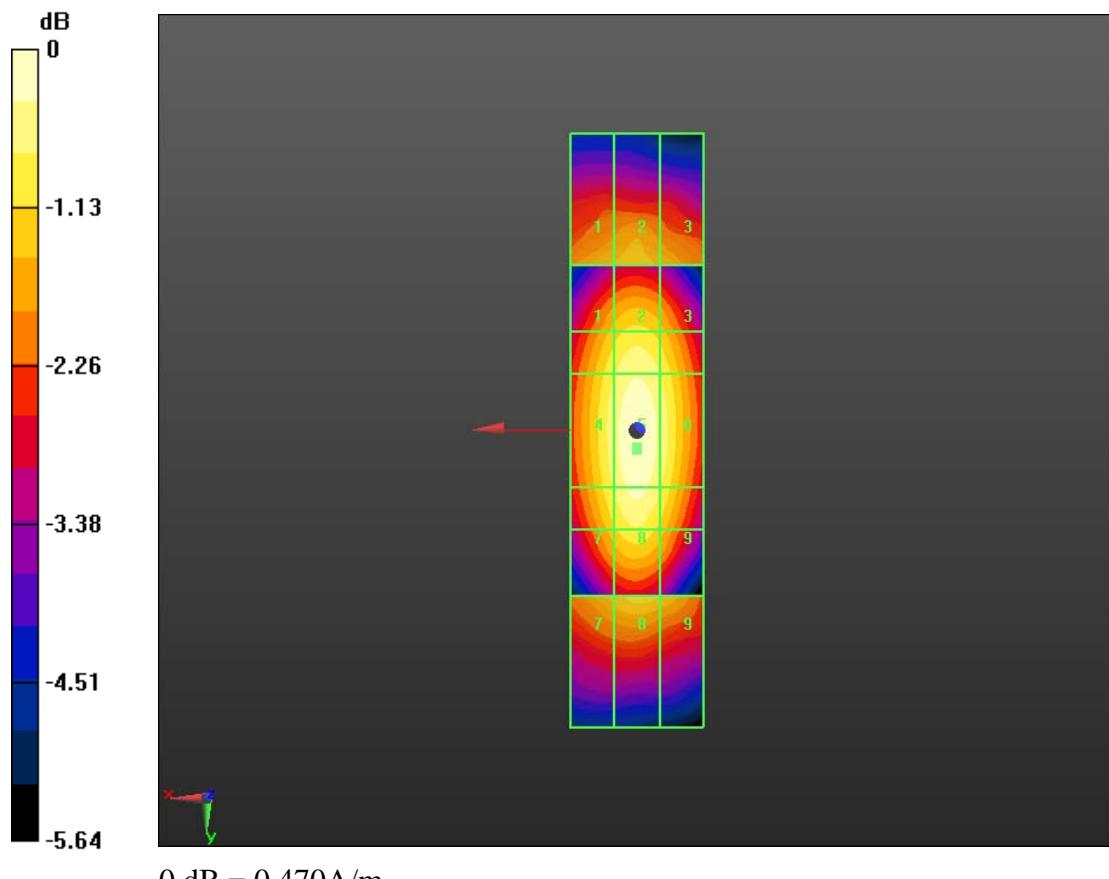
Grid 1	Grid 2	Grid 3
0.429 M2	0.449 M2	0.431 M2
Grid 4	Grid 5	Grid 6
0.443 M2	0.466 M2	0.445 M2
Grid 7	Grid 8	Grid 9
0.434 M2	0.457 M2	0.433 M2

Cursor:

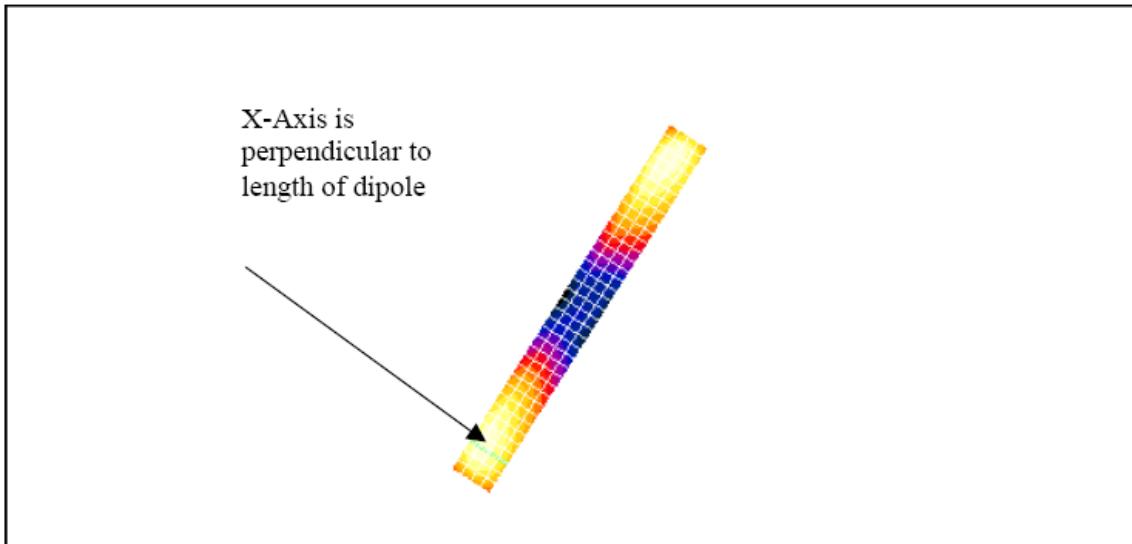
Total = 0.466 A/m

H Category: M2

Location: 0, 0.5, 4.7 mm



 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 115 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW



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 RDD71UW/RDX71UW

Page

116 (200)

Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW
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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
80.9	92.3	92.2	80.9	92.3	92.2
119.8	131.0	130.7	119.8	131.0	130.7

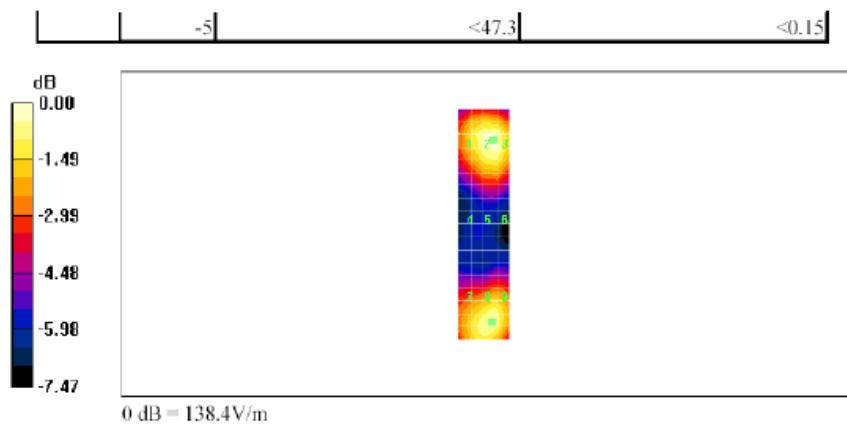
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

 RIM Testing Services	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 117 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

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

Page 2 of 2



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Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

118 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

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
81.4	92.1	91.6	81.4	92.1	91.6
121.3	131.2	131.0	121.3	131.2	131.0

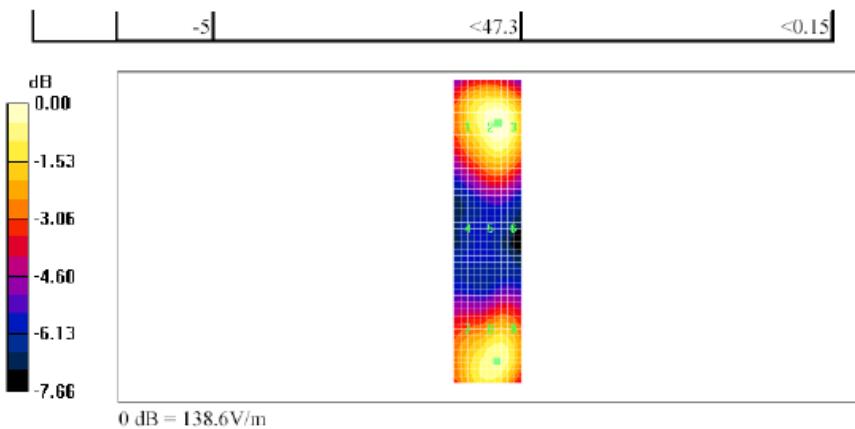
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
	Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B
			FCC ID L6ARDD70UW L6ARDX70UW

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

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Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

120 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

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)

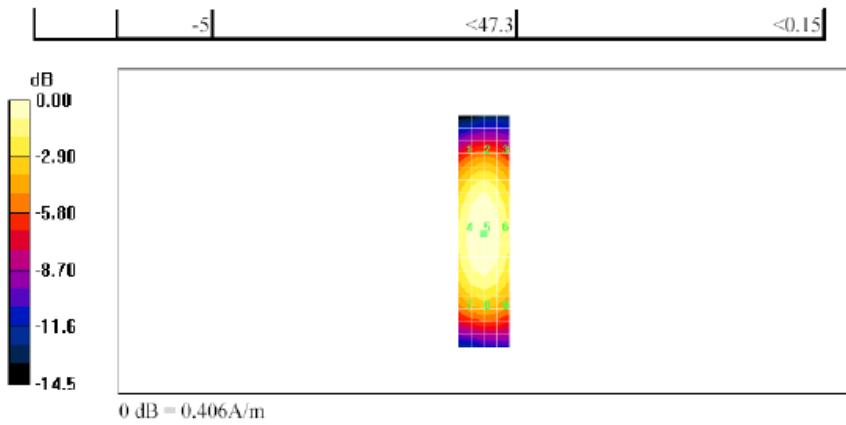
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

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

 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			121 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

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

Page 2 of 2



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Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

122 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

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
0.394	0.406	0.391	0.394	0.406	0.391
0.367	0.380	0.365	0.367	0.380	0.365

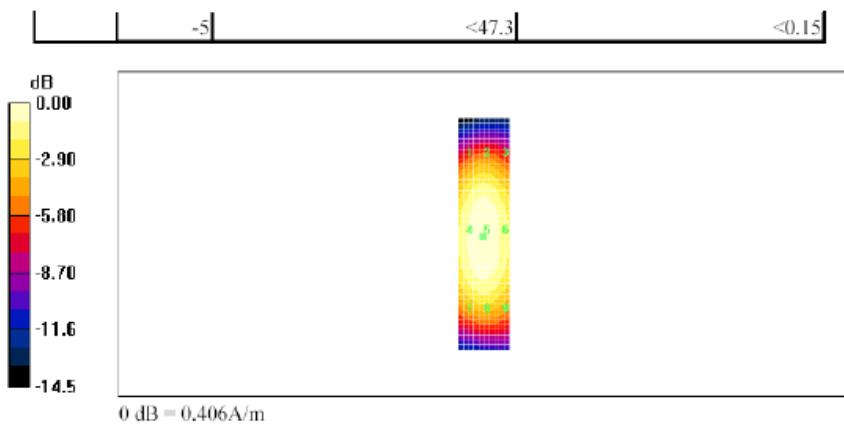
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 123 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

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

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 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 124 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

A.3 RF emission field plots

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 125 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 5/13/2011 11:25:05 AM, Date/Time: 5/13/2011 11:30:45 AM, Date/Time: 5/13/2011 11:34:35 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850_

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/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 = 200.4 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 84.085 V/m; Power Drift = 0.14 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 126 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 171.8 M3	Grid 2 193.9 M3	Grid 3 191.2 M3
Grid 4 178.1 M3	Grid 5 200.4 M3	Grid 6 198.1 M3
Grid 7 181.5 M3	Grid 8 200.2 M3	Grid 9 197.5 M3

Cursor:

Total = 200.4 V/m

E Category: M3

Location: -4.5, 5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

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

Maximum value of peak Total field = 240.2 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 98.602 V/m; Power Drift = 0.13 dB

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

Peak E-field in V/m

Grid 1 192.1 M3	Grid 2 225.3 M3	Grid 3 224.7 M3
Grid 4 205.2 M3	Grid 5 240.2 M3	Grid 6 239.0 M3
Grid 7 214.5 M3	Grid 8 240.5 M3	Grid 9 239.0 M3

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 127 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 240.5 V/m

E Category: M3

Location: -5.5, 12, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 264.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 108.7 V/m; Power Drift = 0.05 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

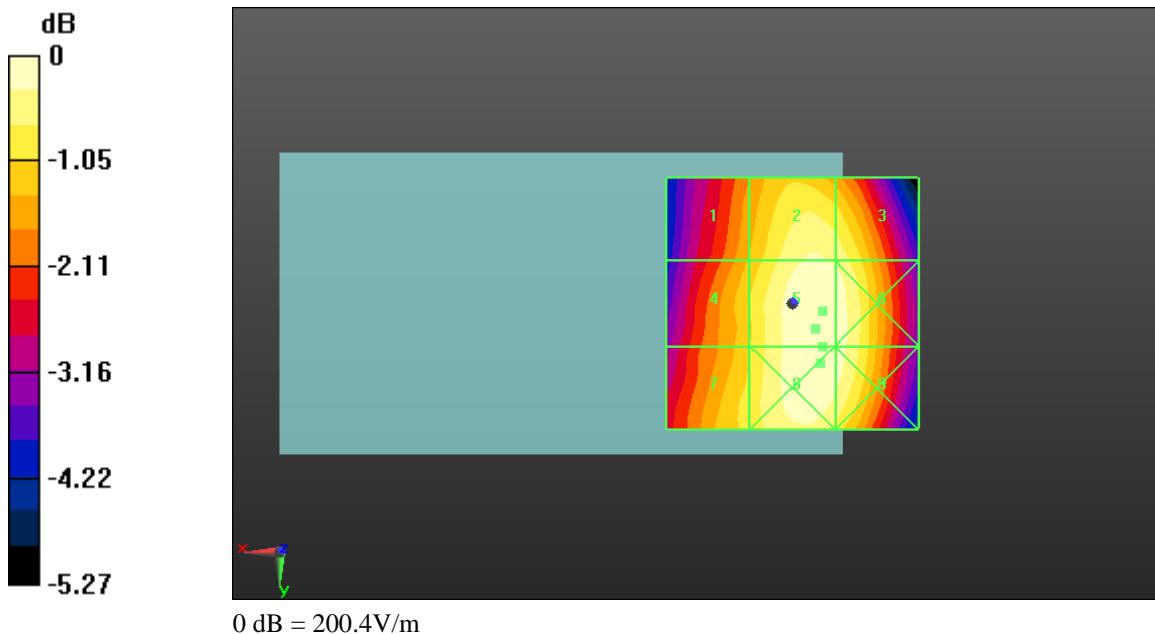
Grid 1	Grid 2	Grid 3
214.6 M3	257.2 M3	256.8 M3
Grid 4	Grid 5	Grid 6
222.1 M3	264.7 M3	263.7 M3
Grid 7	Grid 8	Grid 9
225.9 M3	263.8 M3	261.3 M3

Cursor:

Total = 264.7 V/m

E Category: M3

Location: -6, 1.5, 8.7 mm



 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 129 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 3:56:57 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device_telecoil/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 263.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 111.7 V/m; Power Drift = 0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

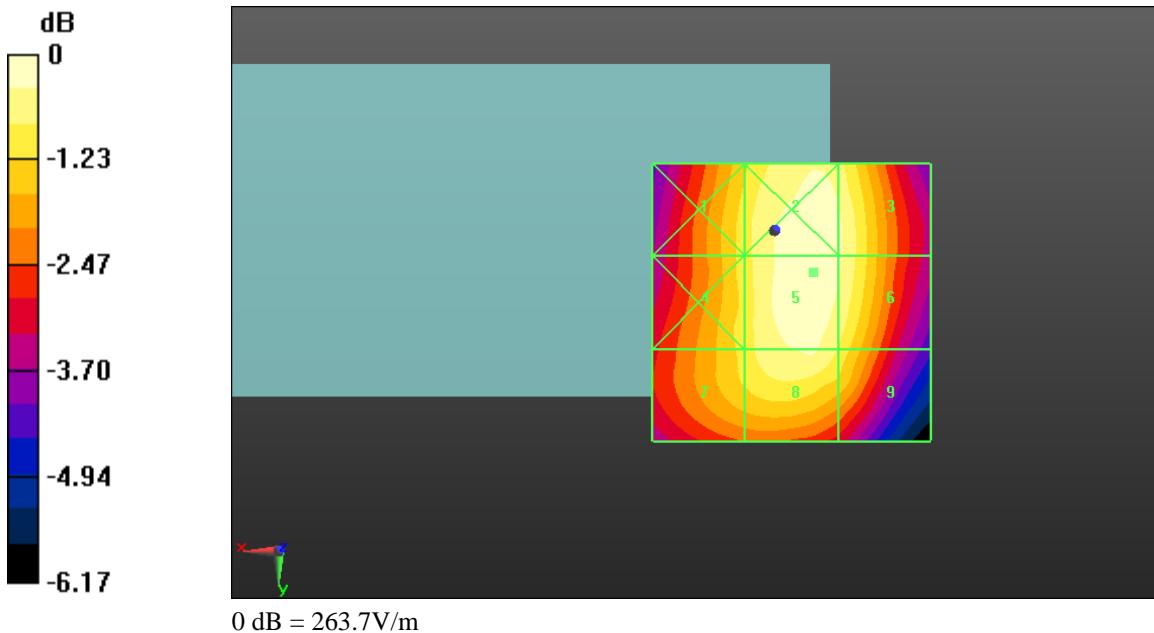
Grid 1	Grid 2	Grid 3
234.8 M3	263.1 M3	254.2 M3
Grid 4	Grid 5	Grid 6
234.7 M3	263.7 M3	253.9 M3
Grid 7	Grid 8	Grid 9
233.7 M3	253.0 M3	238.3 M3

Cursor:

Total = 263.7 V/m

E Category: M3

Location: -7, 7.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW		
			Page 131 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 10:48:47 AM, Date/Time: 5/13/2011 11:09:01 AM, Date/Time: 5/13/2011 11:12:49 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/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 = 76.013 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.989 V/m; Power Drift = -0.0094 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 132 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 95.691 M2	Grid 2 102.1 M2	Grid 3 95.399 M2
Grid 4 44.352 M4	Grid 5 55.177 M3	Grid 6 55.472 M3
Grid 7 72.284 M3	Grid 8 76.013 M3	Grid 9 72.070 M3

Cursor:

Total = 102.1 V/m

E Category: M2

Location: -2.5, -25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

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

Maximum value of peak Total field = 63.432 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.294 V/m; Power Drift = 0.15 dB

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

Peak E-field in V/m

Grid 1 77.124 M3	Grid 2 85.587 M2	Grid 3 82.924 M3
Grid 4 36.958 M4	Grid 5 53.580 M3	Grid 6 54.682 M3
Grid 7 58.237 M3	Grid 8 63.432 M3	Grid 9 62.234 M3

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			133 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 85.587 V/m

E Category: M2

Location: -2.5, -25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 52.785 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.720 V/m; Power Drift = -0.15 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

134 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

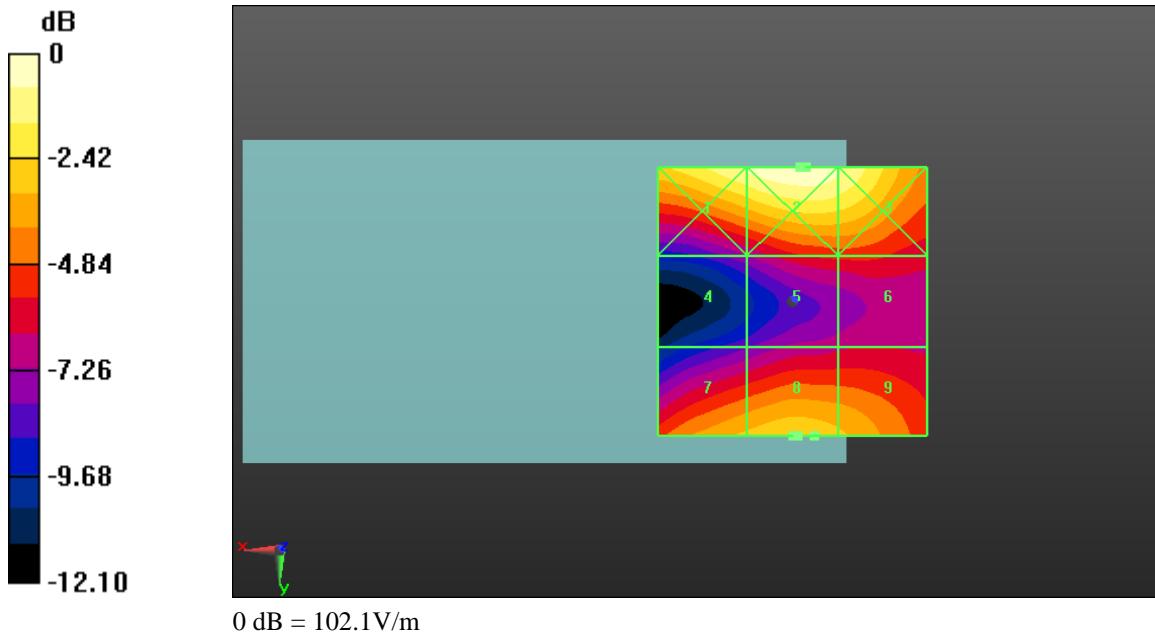
Grid 1	Grid 2	Grid 3
73.517 M3	80.987 M3	77.626 M3
Grid 4	Grid 5	Grid 6
35.817 M4	50.087 M3	50.320 M3
Grid 7	Grid 8	Grid 9
50.905 M3	52.785 M3	50.778 M3

Cursor:

Total = 80.987 V/m

E Category: M3

Location: -1.5, -25, 8.7 mm



 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 135 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 4:03:31 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 72.085 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.633 V/m; Power Drift = -0.19 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

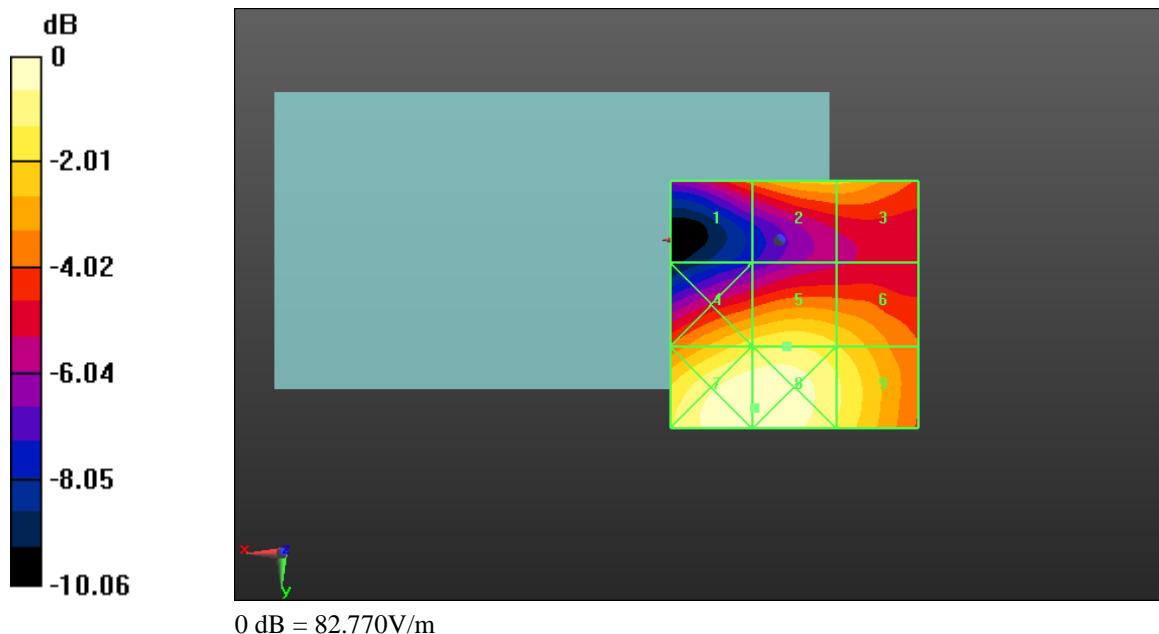
RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
54.928 M3	62.886 M3	62.830 M3
Grid 4	Grid 5	Grid 6
68.560 M3	71.121 M3	66.227 M3
Grid 7	Grid 8	Grid 9
82.764 M3	82.769 M3	72.085 M3



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 137 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 5/13/2011 11:49:16 AM, Date/Time: 5/13/2011 11:54:23 AM, Date/Time: 5/13/2011 11:58:48 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Communication System PAR: 0 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 31.404 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.396 V/m; Power Drift = 0.08 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

138 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
31.404 M4	31.002 M4	25.492 M4
Grid 4	Grid 5	Grid 6
20.346 M4	27.500 M4	27.494 M4
Grid 7	Grid 8	Grid 9
33.511 M4	38.136 M4	36.990 M4

Cursor:

Total = 38.136 V/m

E Category: M4

Location: -3, 25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:**15 mm from Probe Center to the Device 2/Hearing Aid****Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 31.332 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.382 V/m; Power Drift = -0.13 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
31.233 M4	31.332 M4	26.491 M4
Grid 4	Grid 5	Grid 6
18.202 M4	23.887 M4	23.823 M4
Grid 7	Grid 8	Grid 9
32.161 M4	36.253 M4	35.041 M4

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 139 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 36.253 V/m

E Category: M4

Location: -3.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 28.977 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 12.012 V/m; Power Drift = 0.04 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

140 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

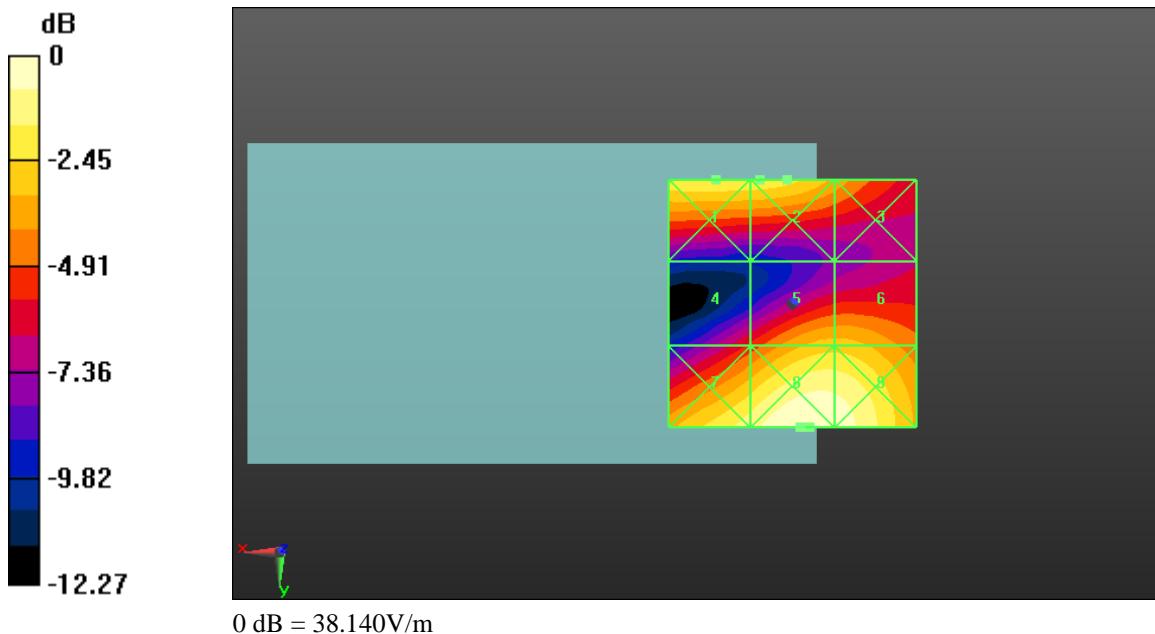
Grid 1	Grid 2	Grid 3
28.075 M4	29.012 M4	26.661 M4
Grid 4	Grid 5	Grid 6
14.167 M4	17.590 M4	17.487 M4
Grid 7	Grid 8	Grid 9
26.682 M4	28.977 M4	27.772 M4

Cursor:

Total = 29.012 V/m

E Category: M4

Location: 1, -25, 8.7 mm



 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 141 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 3:47:10 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 38.455 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.914 V/m; Power Drift = -0.11 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

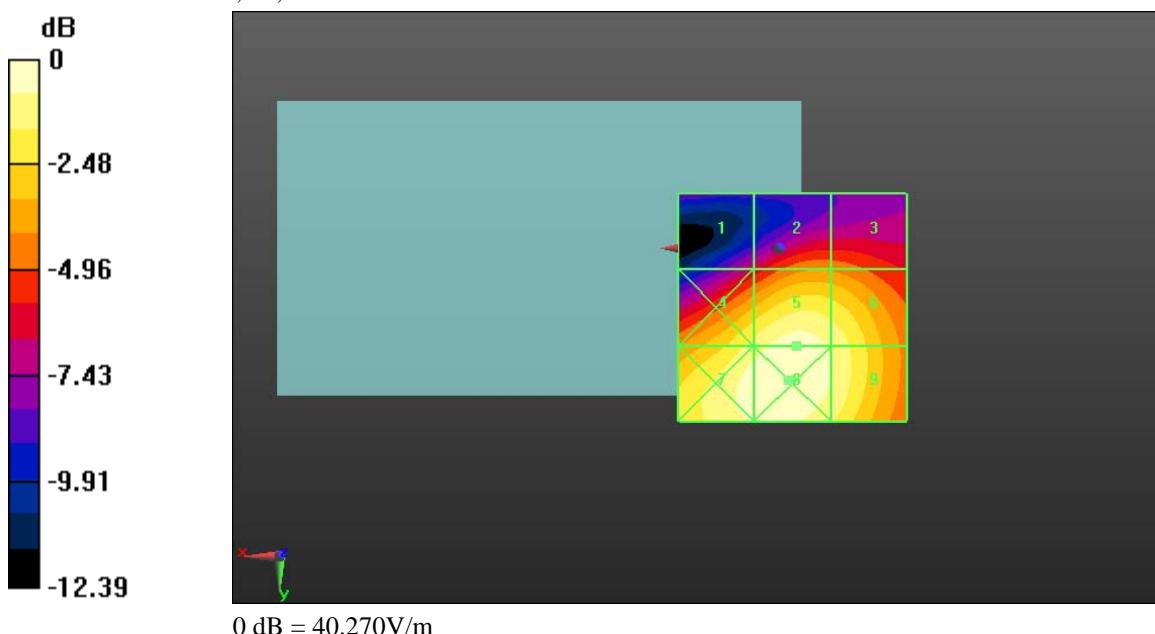
Grid 1	Grid 2	Grid 3
19.146 M4	24.888 M4	24.554 M4
Grid 4	Grid 5	Grid 6
34.768 M4	38.455 M4	35.967 M4
Grid 7	Grid 8	Grid 9
38.624 M4	40.269 M4	36.679 M4

Cursor:

Total = 40.269 V/m

E Category: M4

Location: -2, 29, 8.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			143 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 3:26:42 PM, Date/Time: 5/13/2011 3:30:46 PM, Date/Time: 5/13/2011 3:36:04 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency:

848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.445 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.078 A/m; Power Drift = 0.0049 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 144 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.445 M4	0.313 M4	0.201 M4
Grid 4	Grid 5	Grid 6
0.399 M4	0.279 M4	0.176 M4
Grid 7	Grid 8	Grid 9
0.384 M4	0.261 M4	0.153 M4

Cursor:

Total = 0.445 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 0.544 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.102 A/m; Power Drift = 0.16 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.544 M3	0.389 M4	0.259 M4
Grid 4	Grid 5	Grid 6
0.487 M3	0.354 M4	0.231 M4
Grid 7	Grid 8	Grid 9
0.486 M3	0.340 M4	0.199 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 145 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.544 A/m

H Category: M3

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.638 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.122 A/m; Power Drift = -0.11 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.638 M3	0.463 M3	0.300 M4
Grid 4	Grid 5	Grid 6
0.586 M3	0.430 M4	0.277 M4
Grid 7	Grid 8	Grid 9
0.602 M3	0.437 M4	0.274 M4

Cursor:

Total = 0.638 A/m

H Category: M3

Location: 25, -25, 8.7 mm

Author Data

Daoud Attayi

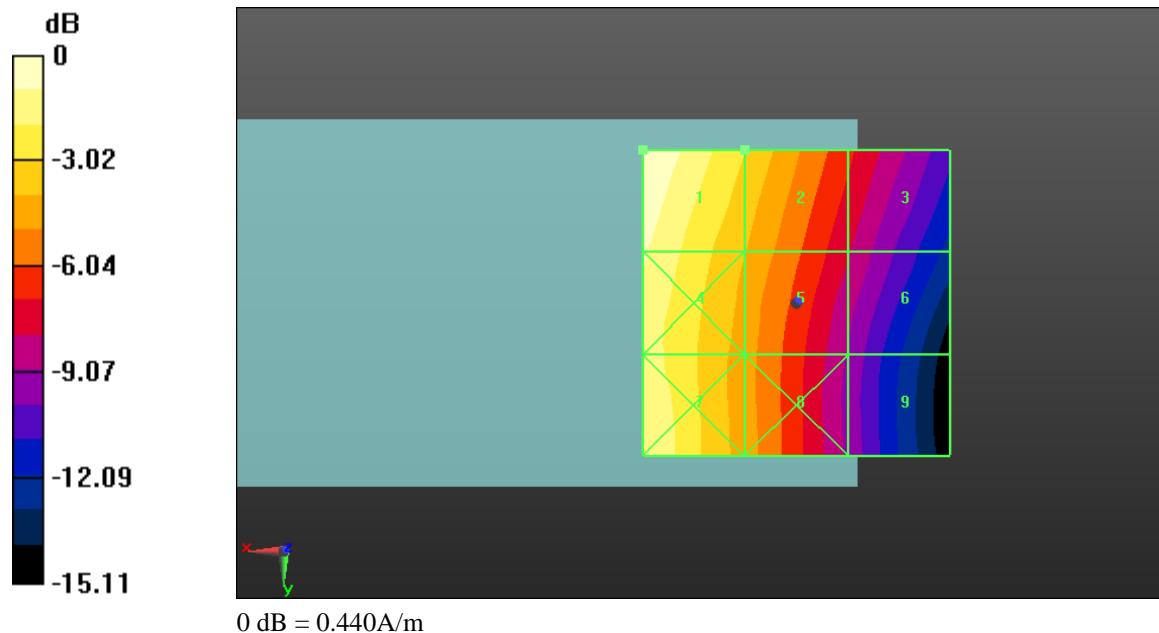
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 147 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 3:48:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.577 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.125 A/m; Power Drift = 0.00019 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

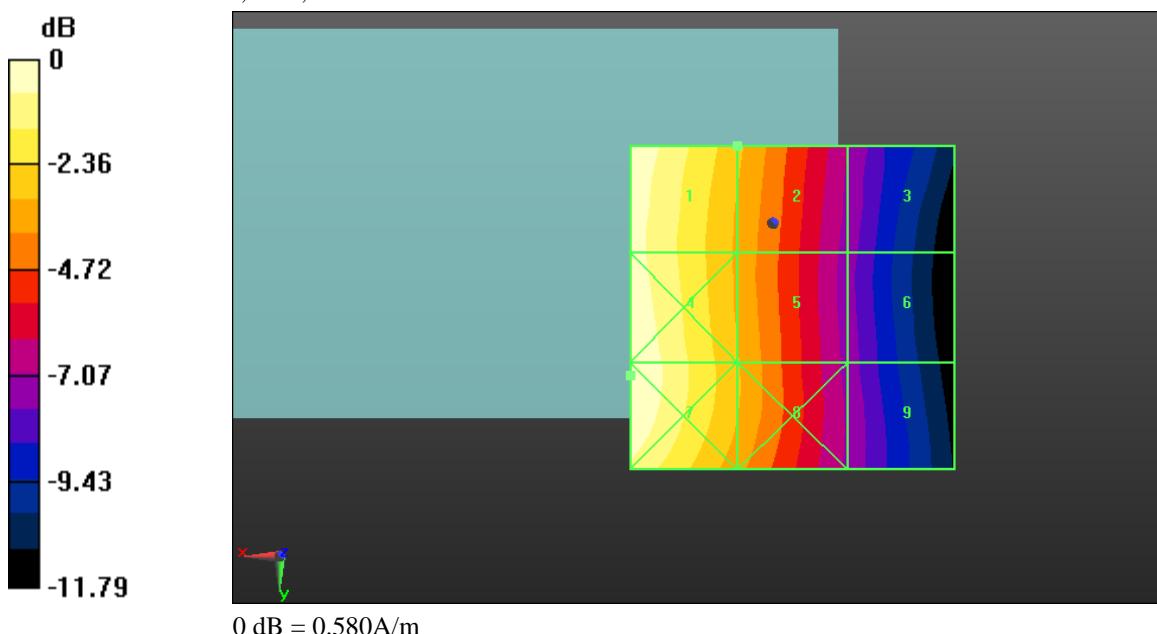
Grid 1	Grid 2	Grid 3
0.577 M3	0.414 M4	0.260 M4
Grid 4	Grid 5	Grid 6
0.576 M3	0.408 M4	0.249 M4
Grid 7	Grid 8	Grid 9
0.577 M3	0.409 M4	0.255 M4

Cursor:

Total = 0.577 A/m

H Category: M3

Location: 22, 23.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW		Page
			149 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 10:37:36 AM, Date/Time: 5/16/2011 10:42:27 AM, Date/Time: 5/16/2011 10:47:43 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.227 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.084 A/m; Power Drift = -0.42 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 150 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1 0.339 M2	Grid 2 0.259 M2	Grid 3 0.223 M3
Grid 4 0.216 M3	Grid 5 0.227 M3	Grid 6 0.223 M3
Grid 7 0.176 M3	Grid 8 0.192 M3	Grid 9 0.192 M3

Cursor:

Total = 0.339 A/m

H Category: M2

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 0.203 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.071 A/m; Power Drift = -0.07 dB

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

Peak H-field in A/m

Grid 1 0.285 M2	Grid 2 0.235 M3	Grid 3 0.193 M3
Grid 4 0.194 M3	Grid 5 0.203 M3	Grid 6 0.192 M3
Grid 7 0.141 M3	Grid 8 0.163 M3	Grid 9 0.162 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 151 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.285 A/m

H Category: M2

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.185 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.067 A/m; Power Drift = -0.20 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.261 M2	0.211 M3	0.170 M3
Grid 4	Grid 5	Grid 6
0.183 M3	0.185 M3	0.169 M3
Grid 7	Grid 8	Grid 9
0.136 M4	0.147 M3	0.145 M3

Cursor:

Total = 0.261 A/m

H Category: M2

Location: 25, -25, 8.7 mm

Author Data

Daoud Attayi

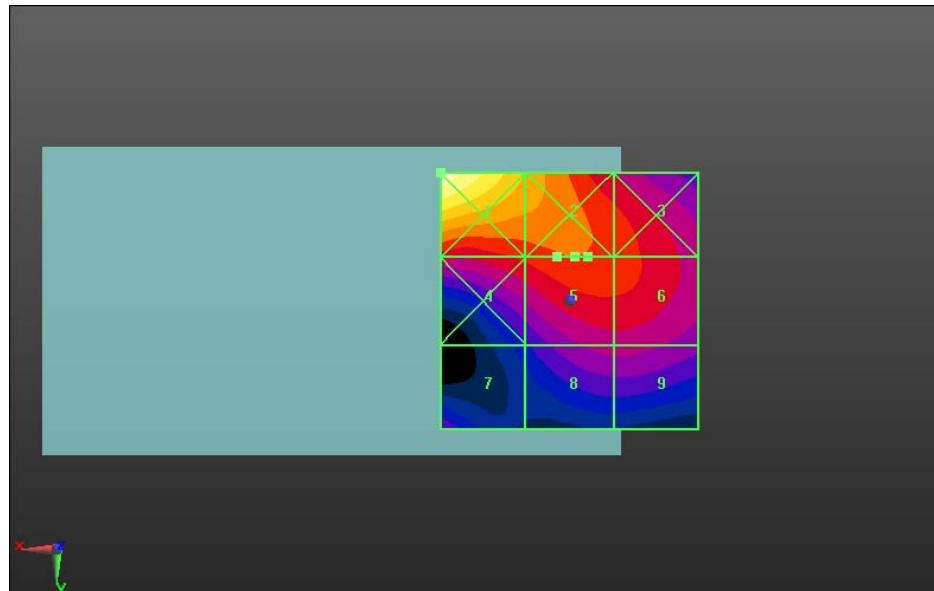
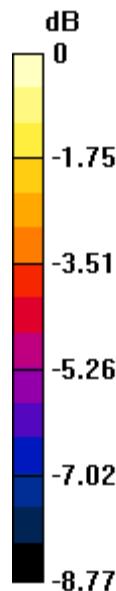
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			153 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 10:54:01 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; Frequency: 1850.2 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.212 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.082 A/m; Power Drift = -0.23 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

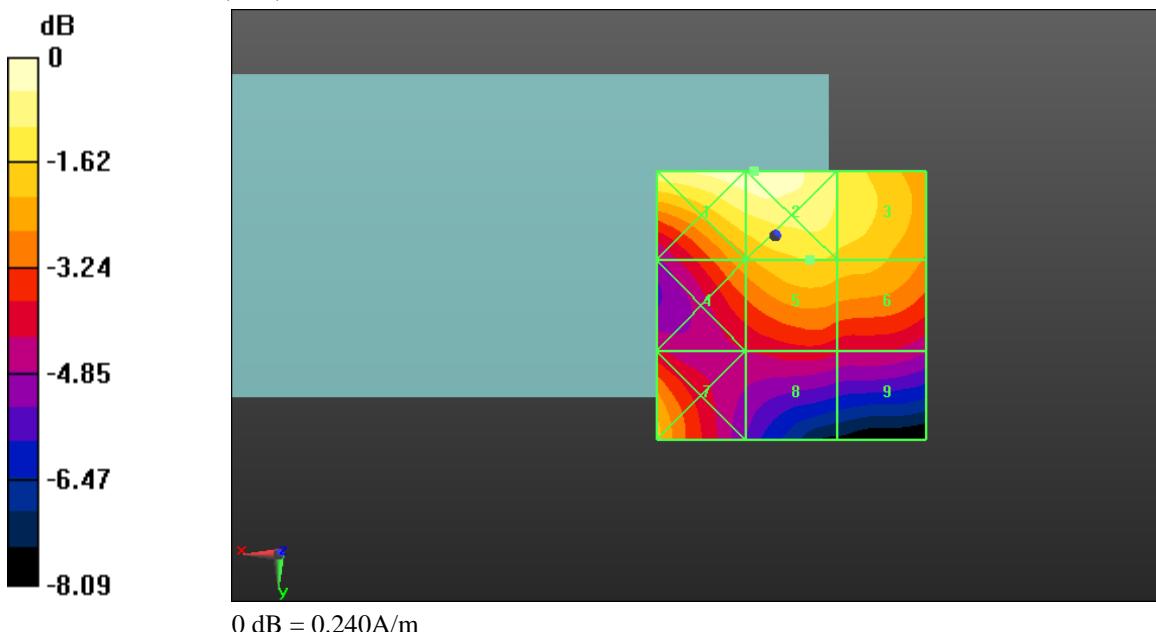
Grid 1	Grid 2	Grid 3
0.235 M3	0.235 M3	0.212 M3
Grid 4	Grid 5	Grid 6
0.184 M3	0.200 M3	0.196 M3
Grid 7	Grid 8	Grid 9
0.192 M3	0.152 M3	0.148 M3

Cursor:

Total = 0.235 A/m

H Category: M3

Location: 4, -12, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 155 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 5/16/2011 1:51:15 PM, Date/Time: 5/16/2011 1:56:35 PM, Date/Time: 5/16/2011 2:00:41 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.103 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.124 A/m; Power Drift = -0.16 dB

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

 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			156 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1 0.097 M4	Grid 2 0.103 M4	Grid 3 0.098 M4
Grid 4 0.096 M4	Grid 5 0.103 M4	Grid 6 0.098 M4
Grid 7 0.107 M4	Grid 8 0.089 M4	Grid 9 0.084 M4

Cursor:

Total = 0.107 A/m

H Category: M4

Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.118 A/m; Power Drift = 0.04 dB

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

Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.099 M4	Grid 3 0.096 M4
Grid 4 0.088 M4	Grid 5 0.099 M4	Grid 6 0.096 M4
Grid 7 0.099 M4	Grid 8 0.085 M4	Grid 9 0.082 M4

 RIM Testing Services™	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 157 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.099 A/m
H Category: M4
Location: -2.5, -7.5, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.083 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = -0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

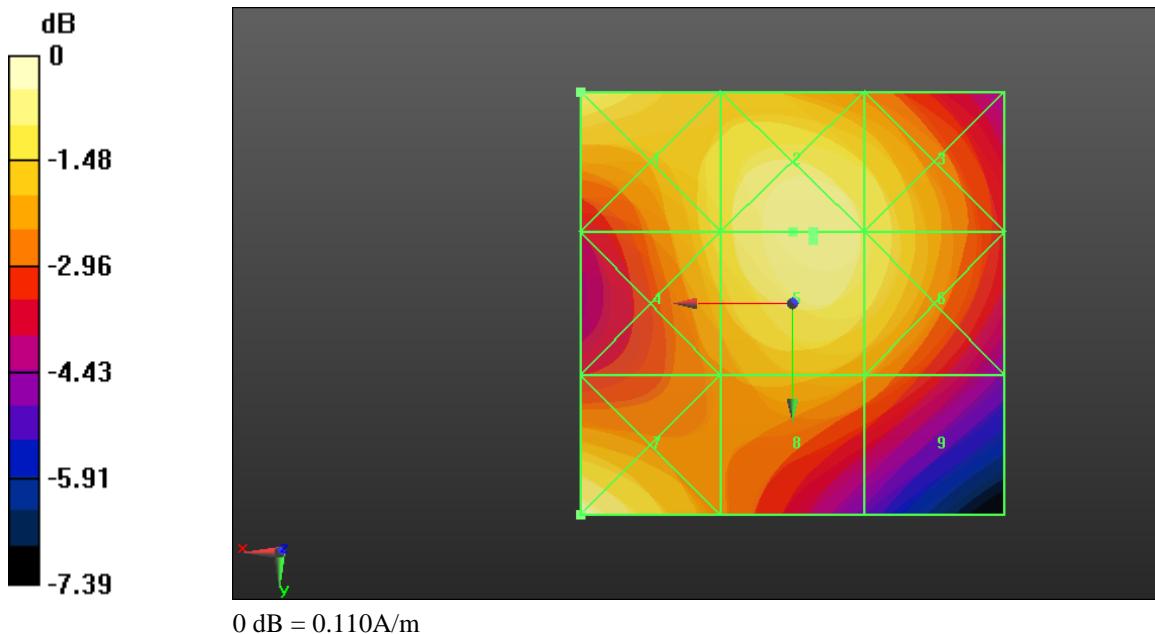
Grid 1	Grid 2	Grid 3
0.095 M4	0.083 M4	0.081 M4
Grid 4	Grid 5	Grid 6
0.075 M4	0.083 M4	0.081 M4
Grid 7	Grid 8	Grid 9
0.080 M4	0.071 M4	0.070 M4

Cursor:

Total = 0.095 A/m

H Category: M4

Location: 25, -25, 8.7 mm



 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 159 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 2:05:45 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.119 A/m; Power Drift = -0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

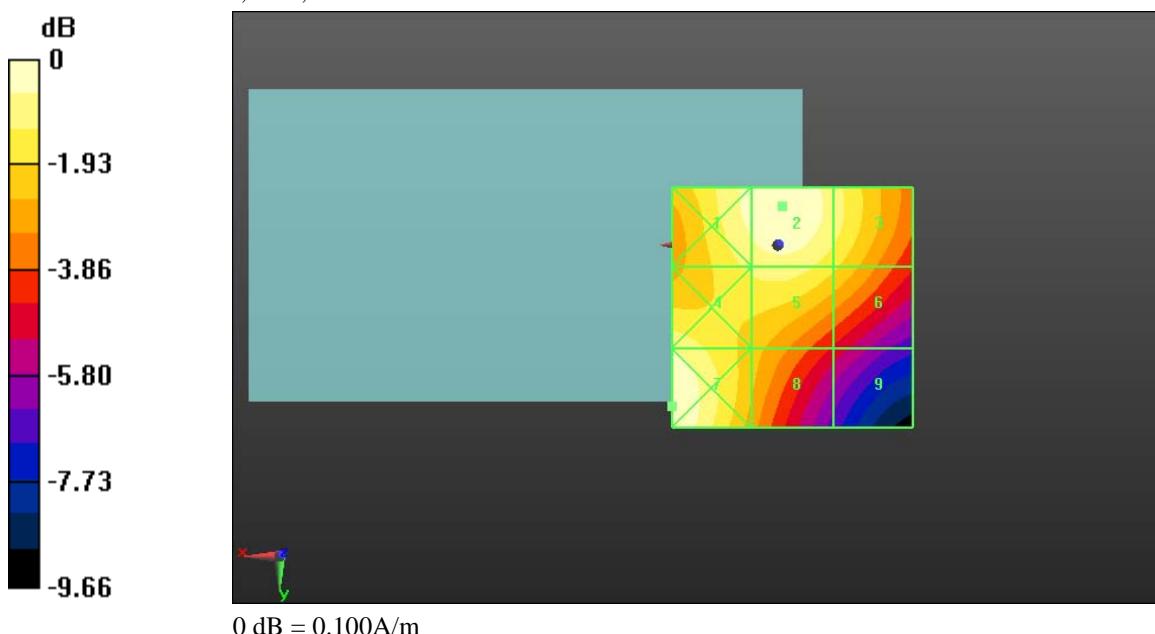
Grid 1	Grid 2	Grid 3
0.096 M4	0.099 M4	0.090 M4
Grid 4	Grid 5	Grid 6
0.093 M4	0.090 M4	0.081 M4
Grid 7	Grid 8	Grid 9
0.103 M4	0.077 M4	0.059 M4

Cursor:

Total = 0.103 A/m

H Category: M4

Location: 22, 33.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW		Page
			161 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 7/11/2011 11:55:01 AM, Date/Time: 7/11/2011 11:58:50 AM, Date/Time: 7/11/2011 12:07:54 PM, Date/Time: 7/11/2011 12:11:13 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; ; Frequency: 824.2 MHz, Frequency: 836.8 MHz,

Frequency: 848.8 MHz; Communication System PAR: 9.191 dB

Medium parameters used: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 0 \text{ kg/m}^3$

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 135.2 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 59.107 V/m; Power Drift = -0.07 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 162 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
122.1 M4	131.2 M4	127.3 M4
Grid 4 125.9 M4	Grid 5 135.2 M4	Grid 6 131.4 M4
Grid 7 127.1 M4	Grid 8 134.4 M4	Grid 9 130.2 M4

Cursor:

Total = 135.2 V/m

E Category: M4

Location: -3.5, 0.5, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:

15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 172.5 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.222 V/m; Power Drift = -0.06 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
144.9 M4	164.2 M3	161.3 M3
Grid 4 153.0 M3	Grid 5 172.5 M3	Grid 6 170.0 M3
Grid 7 157.9 M3	Grid 8 171.5 M3	Grid 9 169.7 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 163 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 172.5 V/m
E Category: M3
Location: -4.5, 5.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 199.7 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.163 V/m; Power Drift = 0.09 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
169.0 M3	194.5 M3	193.9 M3
Grid 4	Grid 5	Grid 6
173.6 M3	199.7 M3	199.4 M3
Grid 7	Grid 8	Grid 9
174.6 M3	197.8 M3	197.3 M3

Cursor:

Total = 199.7 V/m
E Category: M3
Location: -6.5, 1.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device_telecoil/Hearing Aid**

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

Maximum value of peak Total field = 200.4 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 86.196 V/m; Power Drift = -0.09 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

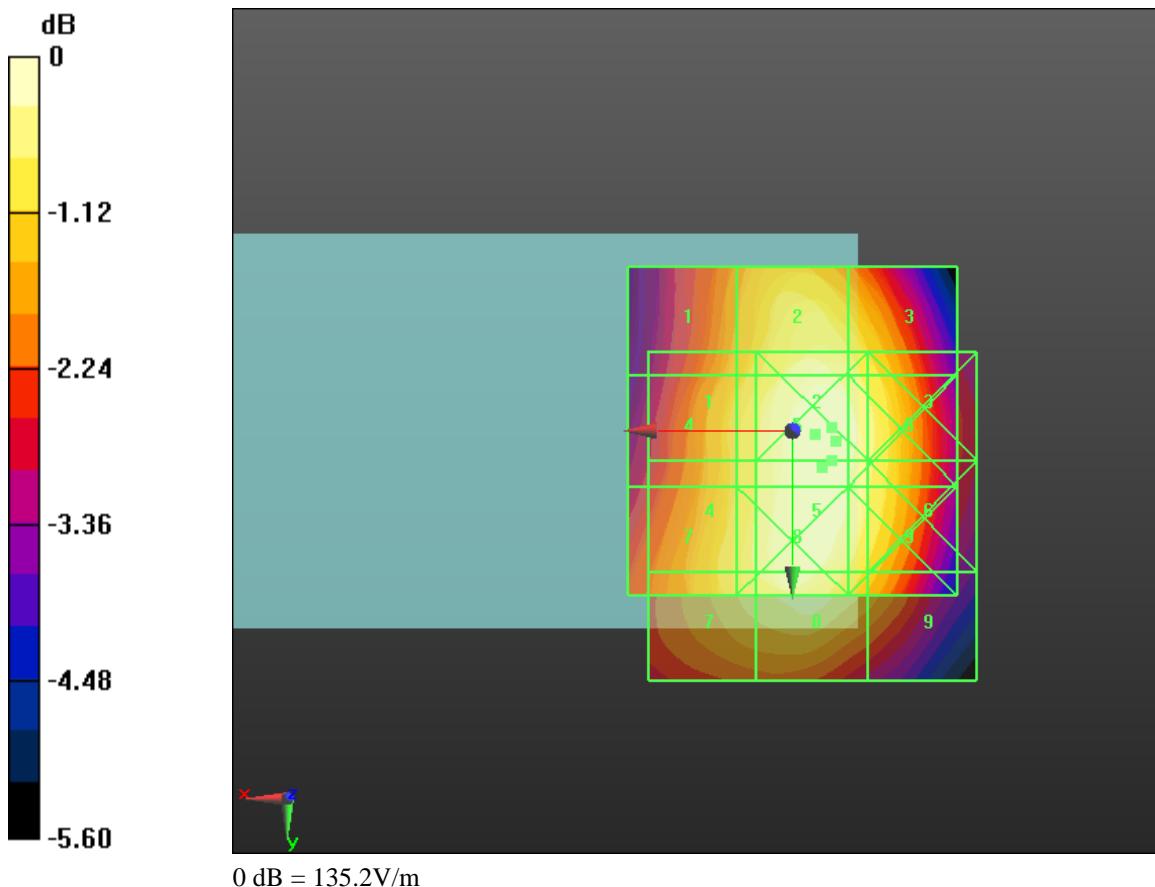
Grid 1	Grid 2	Grid 3
184.1 M3	201.3 M3	194.9 M3
Grid 4	Grid 5	Grid 6
182.8 M3	200.4 M3	193.9 M3
Grid 7	Grid 8	Grid 9
182.5 M3	192.8 M3	180.0 M3

Cursor:

Total = 201.3 V/m

E Category: M3

Location: -6, -0.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 165 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 7/11/2011 12:58:38 PM, Date/Time: 7/11/2011 1:03:07 PM, Date/Time: 7/11/2011 1:06:31 PM, Date/Time: 7/11/2011 1:09:55 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_GSM1900_

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; ; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/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 = 69.669 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.143 V/m; Power Drift = 0.18 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

166 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
91.000 M2	96.776 M2	89.302 M2
Grid 4	Grid 5	Grid 6
40.139 M4	53.956 M3	55.072 M3
Grid 7	Grid 8	Grid 9
68.641 M3	69.669 M3	64.234 M3

Cursor:

Total = 96.776 V/m

E Category: M2

Location: 0.5, -25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:**15 mm from Probe Center to the Device 2/Hearing Aid****Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 57.088 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.386 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
66.791 M3	72.046 M3	68.614 M3
Grid 4	Grid 5	Grid 6
33.862 M4	44.687 M4	46.422 M4
Grid 7	Grid 8	Grid 9
55.466 M3	57.088 M3	53.733 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 167 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 72.046 V/m

E Category: M3

Location: -1, -25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 49.131 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 9.088 V/m; Power Drift = 0.16 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
61.165 M3	65.274 M3	62.084 M3
Grid 4	Grid 5	Grid 6
28.495 M4	41.502 M4	42.240 M4
Grid 7	Grid 8	Grid 9
48.242 M3	49.131 M3	45.146 M4

Cursor:

Total = 65.274 V/m

E Category: M3

Location: 0, -25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device Telecoil/Hearing Aid**

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

Maximum value of peak Total field = 64.866 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 10.239 V/m; Power Drift = -0.43 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

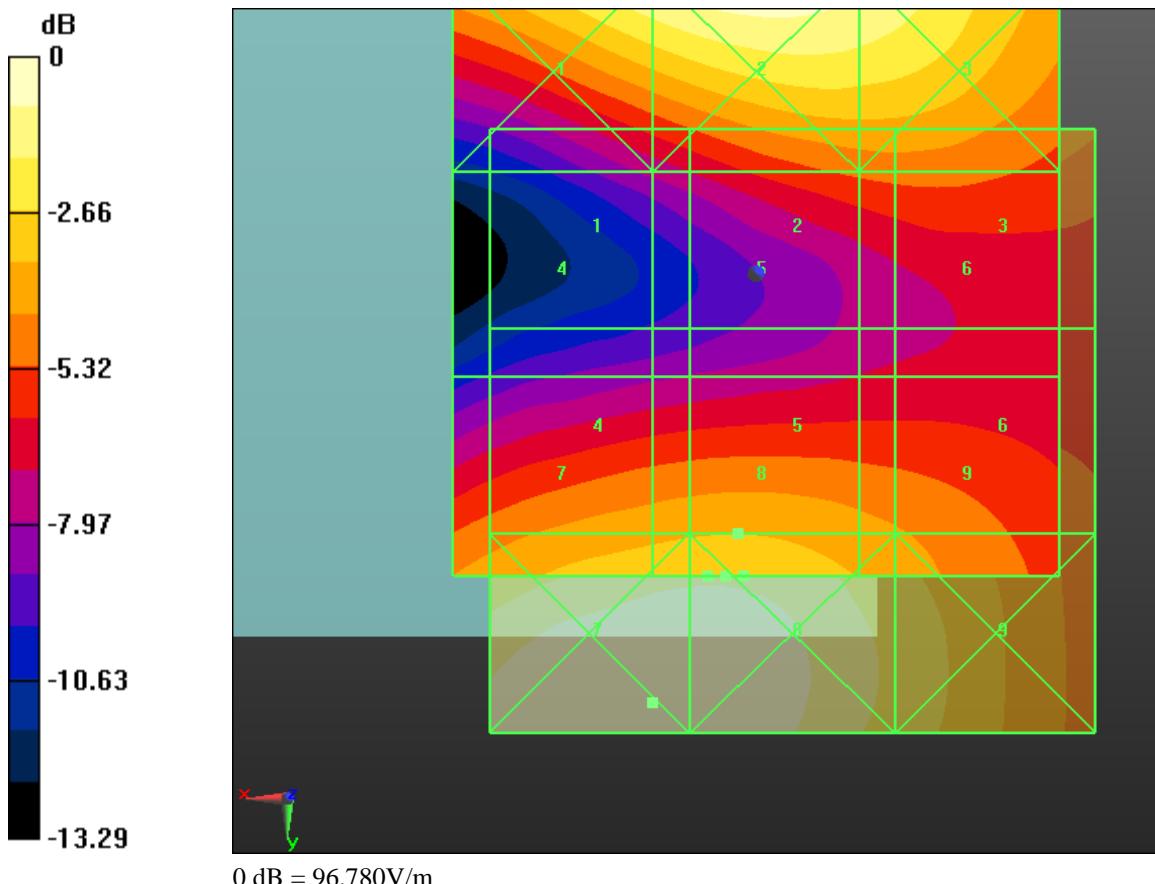
Grid 1	Grid 2	Grid 3
51.427 M3	61.781 M3	61.072 M3
Grid 4	Grid 5	Grid 6
64.103 M3	64.866 M3	58.886 M3
Grid 7	Grid 8	Grid 9
77.243 M3	76.913 M3	64.118 M3

Cursor:

Total = 77.243 V/m

E Category: M3

Location: 8.5, 35.5, 8.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			169 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/13/2011 12:13:39 PM, Date/Time: 5/13/2011 12:23:09 PM, Date/Time: 5/13/2011 12:31:46 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; ; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz; Communication System PAR: 0 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/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 = 67.791 V/m
 Probe Modulation Factor = 1.000
 Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 86.433 V/m; Power Drift = -0.16 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 170 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
58.081 M4	65.793 M4	65.308 M4
Grid 4	Grid 5	Grid 6
60.026 M4	67.791 M4	67.285 M4
Grid 7	Grid 8	Grid 9
60.624 M4	67.835 M4	67.037 M4

Cursor:

Total = 67.835 V/m

E Category: M4

Location: -4.5, 9.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

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

Maximum value of peak Total field = 78.696 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 96.746 V/m; Power Drift = -0.05 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
64.094 M4	75.396 M4	75.041 M4
Grid 4	Grid 5	Grid 6
67.129 M4	78.696 M4	78.406 M4
Grid 7	Grid 8	Grid 9
68.972 M4	78.646 M4	78.261 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 171 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 78.696 V/m

E Category: M4

Location: -6, 7, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 78.231 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 96.269 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
64.868 M4	75.989 M4	75.535 M4
Grid 4	Grid 5	Grid 6
67.032 M4	78.231 M4	77.625 M4
Grid 7	Grid 8	Grid 9
67.279 M4	77.869 M4	77.114 M4

Cursor:

Total = 78.231 V/m

E Category: M4

Location: -5.5, 1.5, 8.7 mm



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

172 (200)

Author Data

Daoud Attayi

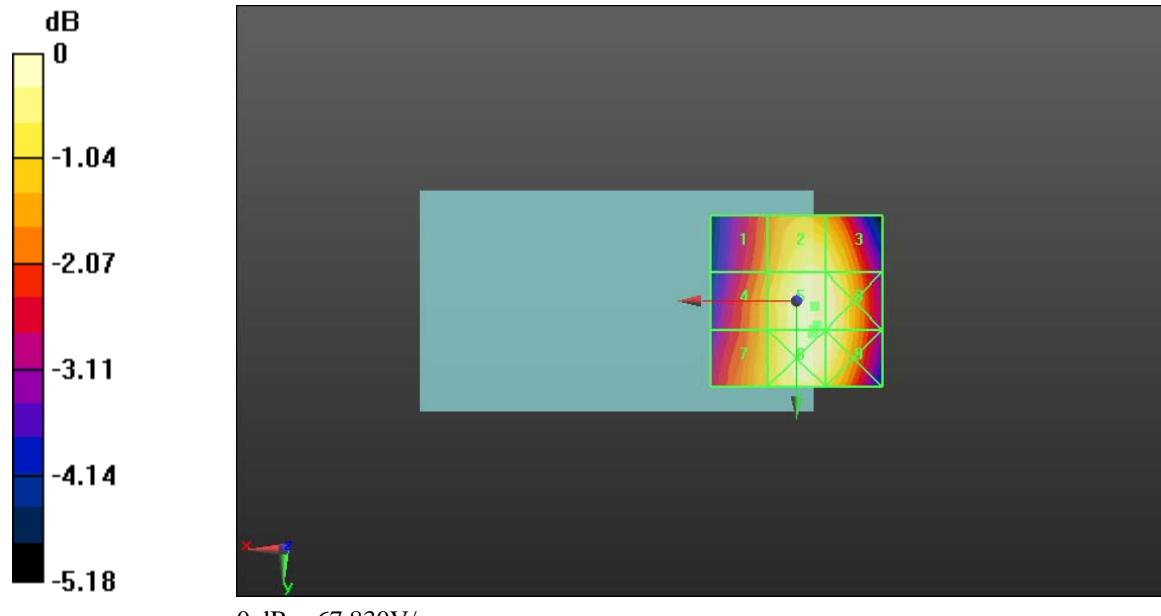
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 173 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 3:33:02 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_V_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 79.980 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 97.456 V/m; Power Drift = 0.08 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

174 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

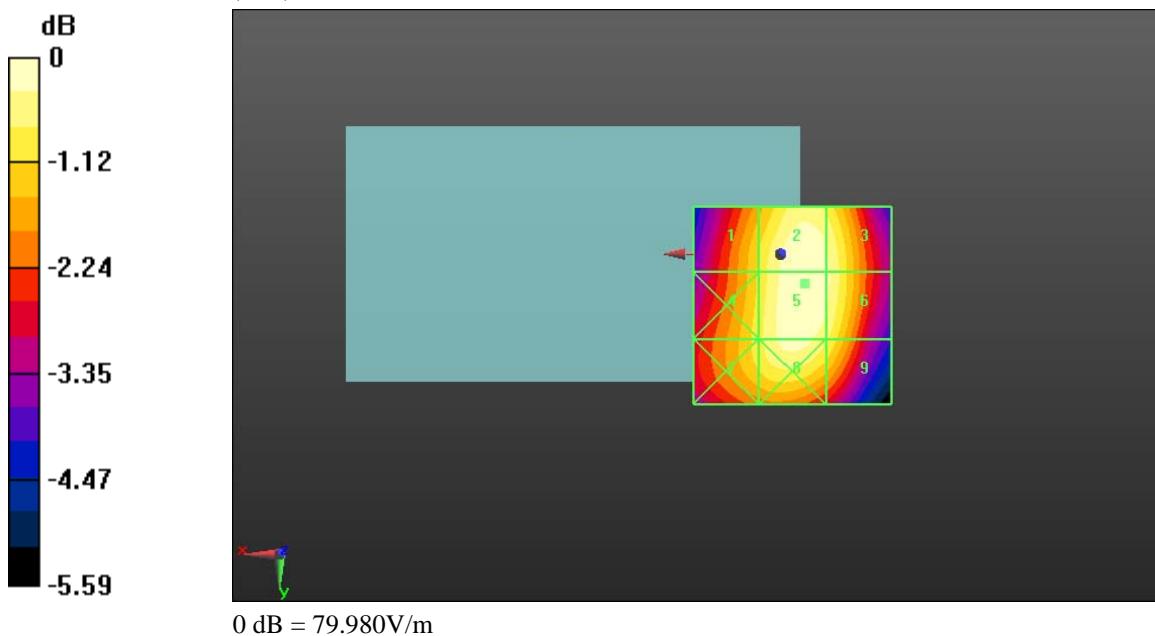
Grid 1	Grid 2	Grid 3
70.995 M4	79.928 M4	77.504 M4
Grid 4	Grid 5	Grid 6
72.338 M4	79.980 M4	77.508 M4
Grid 7	Grid 8	Grid 9
72.327 M4	78.135 M4	74.168 M4

Cursor:

Total = 79.980 V/m

E Category: M4

Location: -6, 7.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 175 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 5/13/2011 12:40:13 PM, Date/Time: 5/13/2011 12:43:37 PM, Date/Time: 5/13/2011 12:47:06 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz; Communication System PAR: 0 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/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 = 24.247 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 9.507 V/m; Power Drift = -0.28 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 176 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak E-field in V/m

Grid 1 29.692 M4	Grid 2 31.468 M4	Grid 3 28.912 M4
Grid 4 13.140 M4	Grid 5 15.723 M4	Grid 6 15.648 M4
Grid 7 23.023 M4	Grid 8 24.247 M4	Grid 9 22.793 M4

Cursor:

Total = 31.468 V/m

E Category: M4

Location: 0.5, -25, 8.7 mm

Device E-Field measurement with ER probe/E Scan - ER3D - 2007:

15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 24.727 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.658 V/m; Power Drift = -0.33 dB

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

Peak E-field in V/m

Grid 1 29.955 M4	Grid 2 32.505 M4	Grid 3 30.996 M4
Grid 4 13.663 M4	Grid 5 19.129 M4	Grid 6 19.454 M4
Grid 7 22.777 M4	Grid 8 24.727 M4	Grid 9 23.833 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 177 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 32.505 V/m

E Category: M4

Location: -2, -25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

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

Maximum value of peak Total field = 24.045 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.387 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 31.590 M4	Grid 2 33.594 M4	Grid 3 31.894 M4
Grid 4 14.852 M4	Grid 5 19.604 M4	Grid 6 19.812 M4
Grid 7 22.278 M4	Grid 8 24.045 M4	Grid 9 22.972 M4

Cursor:

Total = 33.594 V/m

E Category: M4

Location: 0, -25, 8.7 mm



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

178 (200)

Author Data

Daoud Attayi

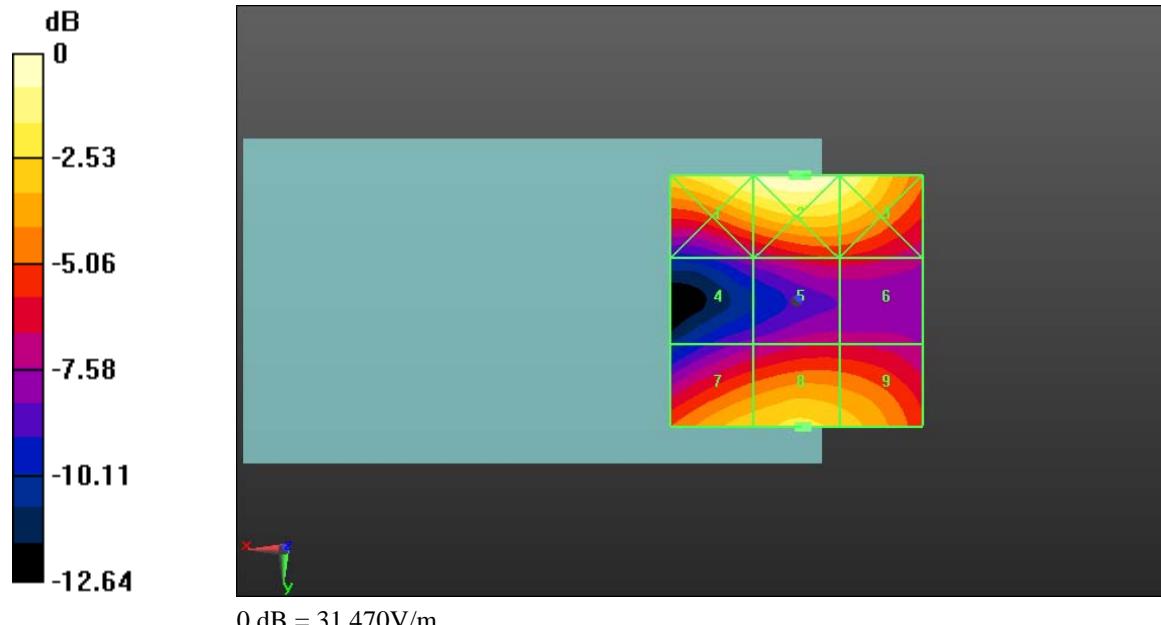
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

 <p>Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW</p>			Page 179 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 3:25:18 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_II_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 22.433 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 11.588 V/m; Power Drift = -0.19 dB

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

Author Data
Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak E-field in V/m

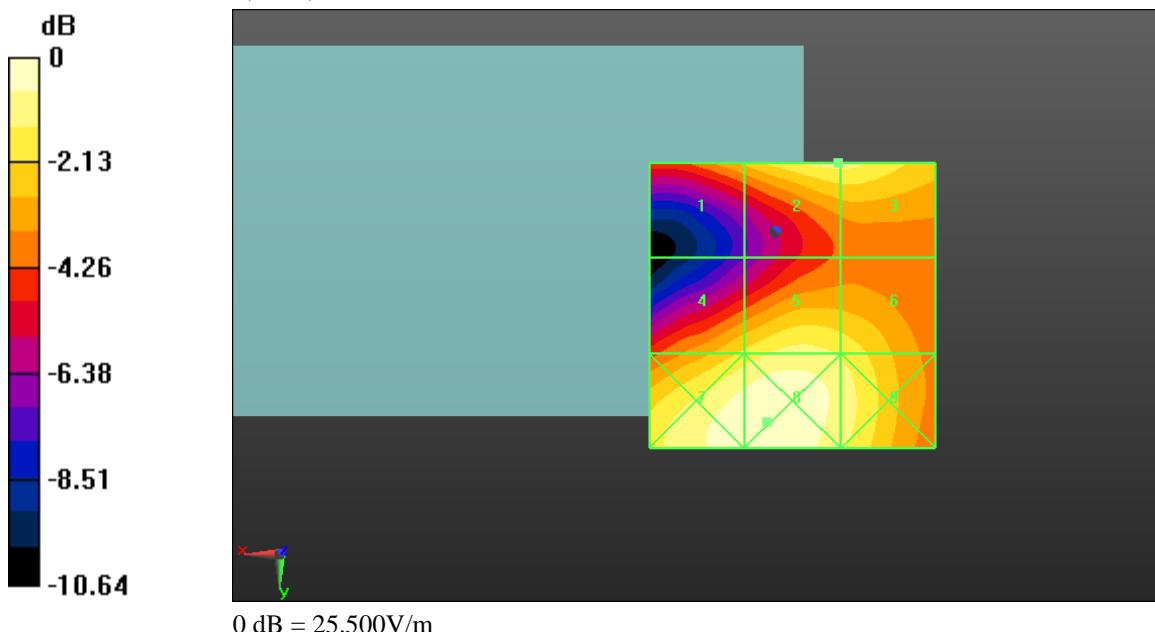
Grid 1	Grid 2	Grid 3
18.837 M4	22.433 M4	22.420 M4
Grid 4	Grid 5	Grid 6
20.448 M4	22.408 M4	21.382 M4
Grid 7	Grid 8	Grid 9
24.923 M4	25.503 M4	22.787 M4

Cursor:

Total = 25.503 V/m

E Category: M4

Location: 1.5, 33.5, 8.7 mm



	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			181 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 7/11/2011 3:20:32 PM, Date/Time: 7/11/2011 3:27:15 PM, Date/Time: 7/11/2011 3:35:36 PM, Date/Time: 7/11/2011 3:41:16 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM850

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 850; ; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz; Communication System PAR: 9.191 dB
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
 Phantom section: RF Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.395 A/m
 Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm
 Reference Value = 0.067 A/m; Power Drift = 0.11 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

182 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.395 M4	0.264 M4	0.159 M4
Grid 4	Grid 5	Grid 6
0.357 M4	0.243 M4	0.143 M4
Grid 7	Grid 8	Grid 9
0.354 M4	0.242 M4	0.139 M4

Cursor:

Total = 0.395 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid**Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.478 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.091 A/m; Power Drift = -0.07 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.478 M3	0.338 M4	0.213 M4
Grid 4	Grid 5	Grid 6
0.446 M4	0.318 M4	0.197 M4
Grid 7	Grid 8	Grid 9
0.457 M3	0.320 M4	0.192 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 183 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.478 A/m
H Category: M3
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.558 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.108 A/m; Power Drift = -0.12 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.558 M3	0.387 M4	0.235 M4
Grid 4	Grid 5	Grid 6
0.527 M3	0.375 M4	0.234 M4

Grid 7	Grid 8	Grid 9
0.554 M3	0.399 M4	0.256 M4

Cursor:

Total = 0.558 A/m
H Category: M3
Location: 25, -24.5, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.524 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.107 A/m; Power Drift = 0.04 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.501 M3	0.347 M4	0.209 M4
Grid 4	Grid 5	Grid 6
0.515 M3	0.364 M4	0.229 M4

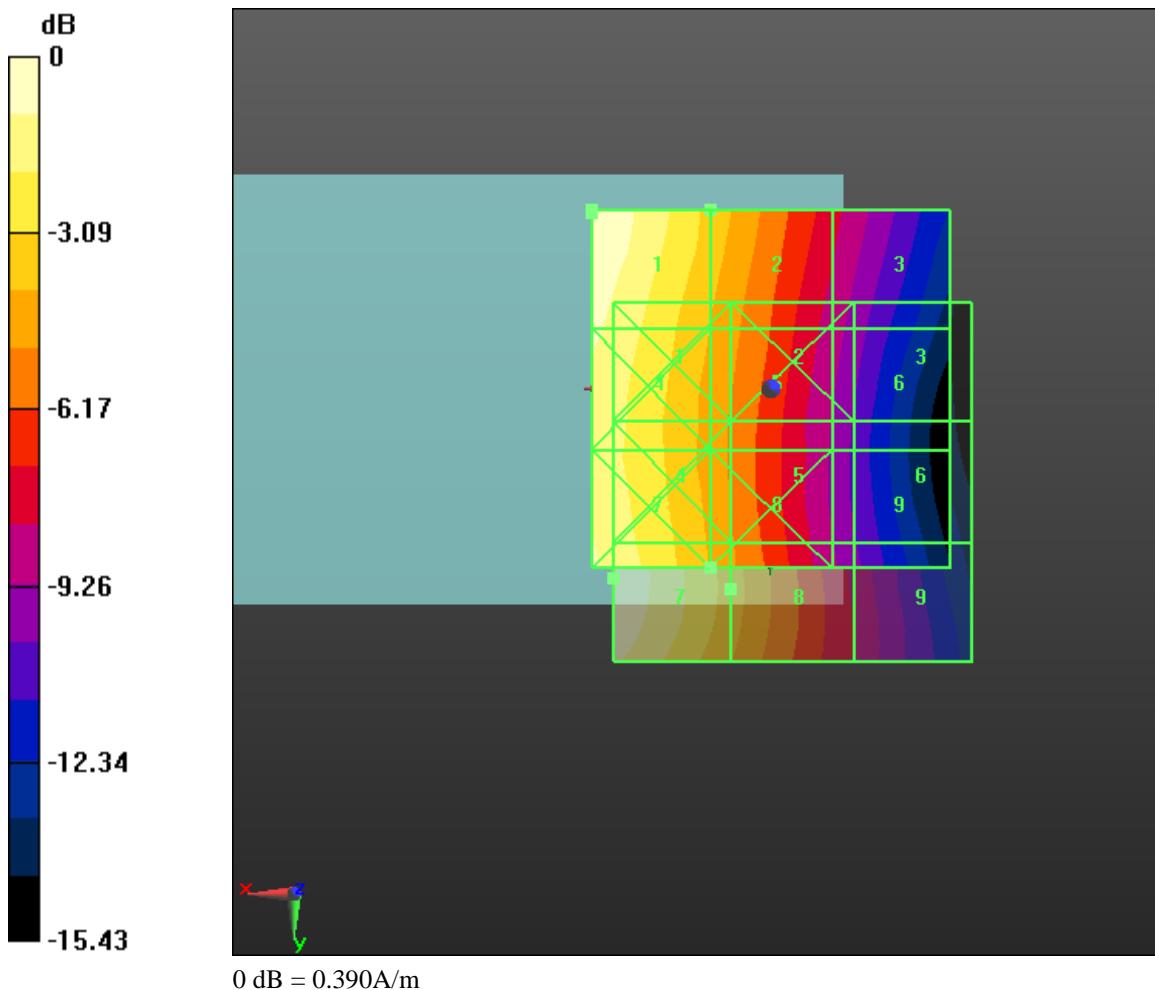
Grid 7	Grid 8	Grid 9
0.524 M3	0.371 M4	0.240 M4

Cursor:

Total = 0.524 A/m

H Category: M3

Location: 22, 26.5, 8.7 mm



 RIM Testing Services	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			185 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 7/11/2011 2:47:06 PM, Date/Time: 7/11/2011 2:52:04 PM, Date/Time: 7/11/2011 2:56:00 PM, Date/Time: 7/11/2011 3:06:33 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_GSM1900

DUT: BlackBerry Smartphone; Type: Sample

Communication System: GSM 1900; , Communication System Band: GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz, Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.203 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.071 A/m; Power Drift = 0.03 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 186 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.291 M2	0.222 M3	0.200 M3
Grid 4 0.192 M3	Grid 5 0.203 M3	Grid 6 0.200 M3
Grid 7 0.169 M3	Grid 8 0.174 M3	Grid 9 0.174 M3

Cursor:

Total = 0.291 A/m

H Category: M2

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.170 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.060 A/m; Power Drift = -0.14 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.233 M3	0.191 M3	0.165 M3
Grid 4 0.160 M3	Grid 5 0.170 M3	Grid 6 0.164 M3
Grid 7 0.143 M3	Grid 8 0.137 M4	Grid 9 0.137 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 187 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.233 A/m
H Category: M3
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.162 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.051 A/m; Power Drift = 0.05 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.203 M3	0.162 M3	0.138 M4
Grid 4	Grid 5	Grid 6
0.138 M4	0.145 M3	0.138 M4

Grid 7	Grid 8	Grid 9
0.121 M4	0.119 M4	0.118 M4

Cursor:

Total = 0.203 A/m
H Category: M3
Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.197 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.071 A/m; Power Drift = 0.06 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

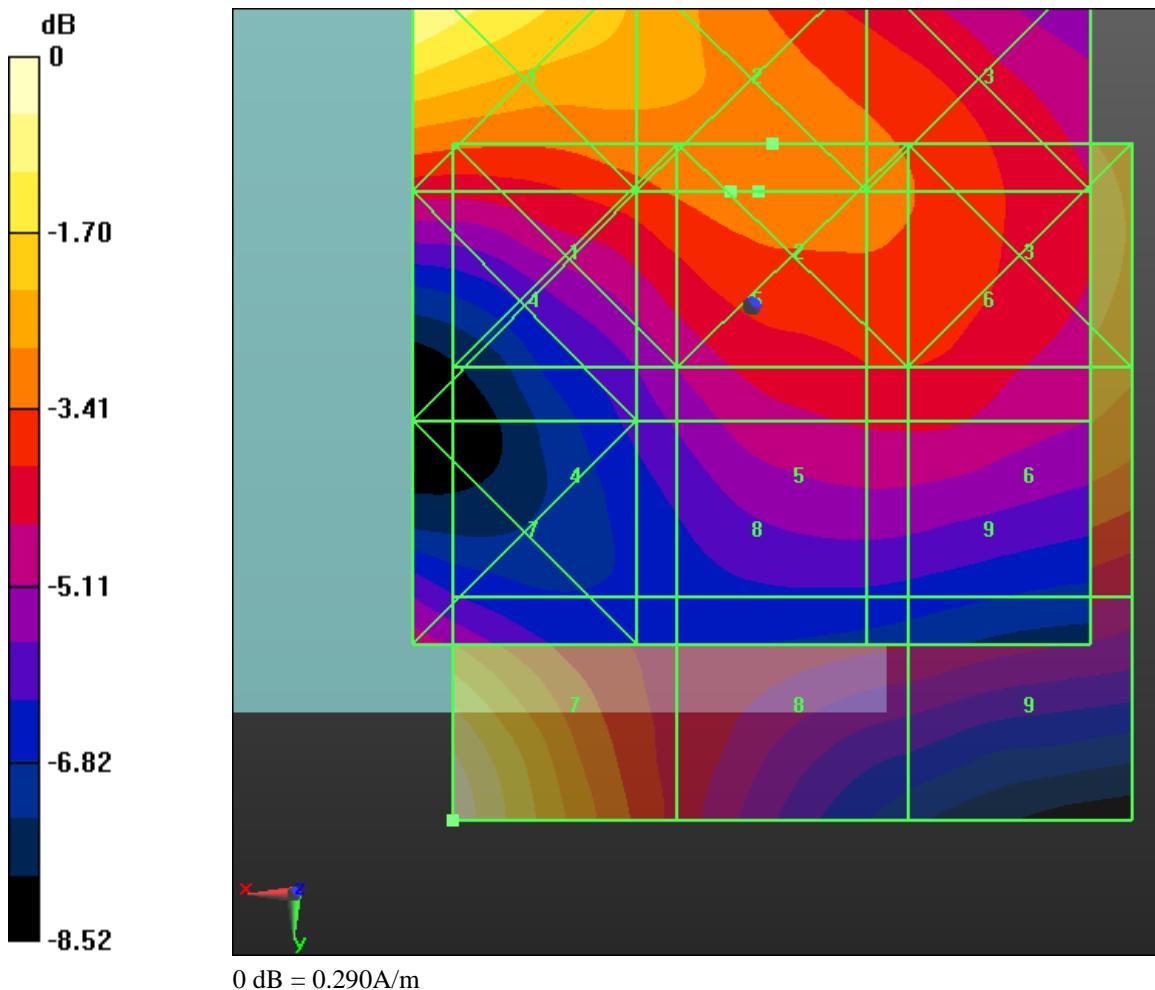
Grid 1	Grid 2	Grid 3
0.203 M3	0.204 M3	0.193 M3
Grid 4	Grid 5	Grid 6
0.161 M3	0.180 M3	0.180 M3
Grid 7	Grid 8	Grid 9
0.197 M3	0.139 M4	0.137 M4

Cursor:

Total = 0.204 A/m

H Category: M3

Location: -1.5, -12, 8.7 mm



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 189 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B

Date/Time: 5/16/2011 2:21:42 PM, Date/Time: 5/16/2011 2:27:08 PM, Date/Time: 5/16/2011 2:32:39 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 826.4 MHz, Frequency: 836.4 MHz, Frequency: 846.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.153 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.081 A/m; Power Drift = 0.11 dB

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

 RIM Testing Services™	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			190 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.153 M4	0.108 M4	0.067 M4
Grid 4	Grid 5	Grid 6
0.137 M4	0.099 M4	0.061 M4
Grid 7	Grid 8	Grid 9
0.139 M4	0.099 M4	0.060 M4

Cursor:

Total = 0.153 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 0.174 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.095 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.174 M4	0.125 M4	0.081 M4
Grid 4	Grid 5	Grid 6
0.157 M4	0.115 M4	0.074 M4
Grid 7	Grid 8	Grid 9
0.160 M4	0.114 M4	0.069 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 191 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.174 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.176 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.099 A/m; Power Drift = 0.09 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.176 M4	0.126 M4	0.078 M4
Grid 4	Grid 5	Grid 6
0.162 M4	0.120 M4	0.074 M4
Grid 7	Grid 8	Grid 9
0.171 M4	0.126 M4	0.079 M4

Cursor:

Total = 0.176 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Author Data

Daoud Attayi

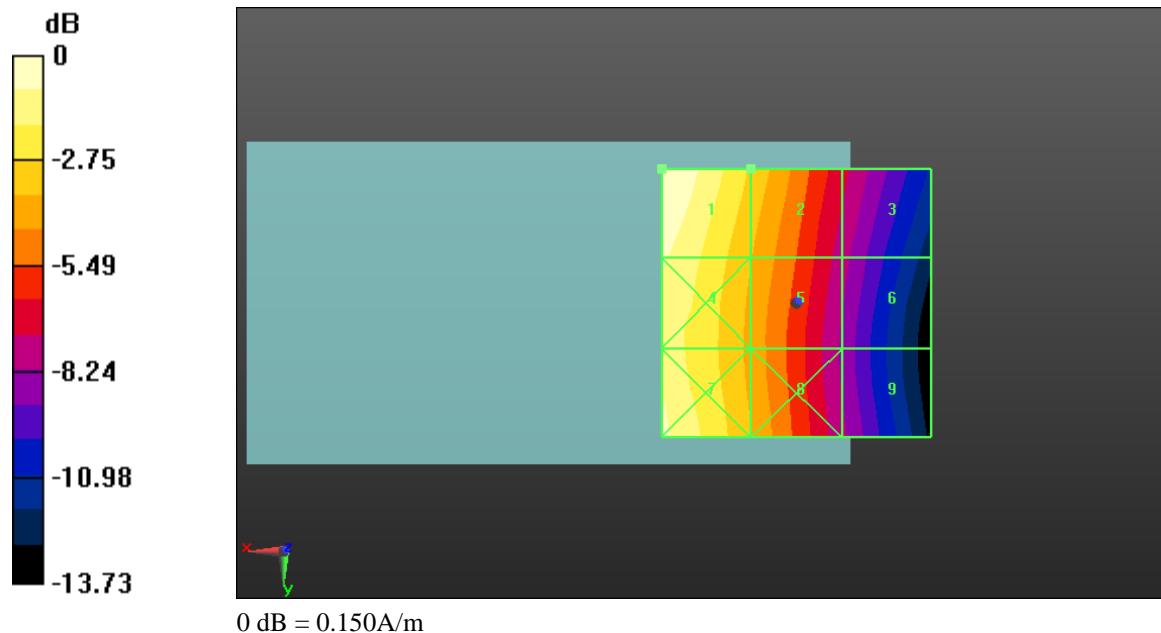
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			193 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 2:37:45 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band V_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.101 A/m; Power Drift = -0.03 dB

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

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

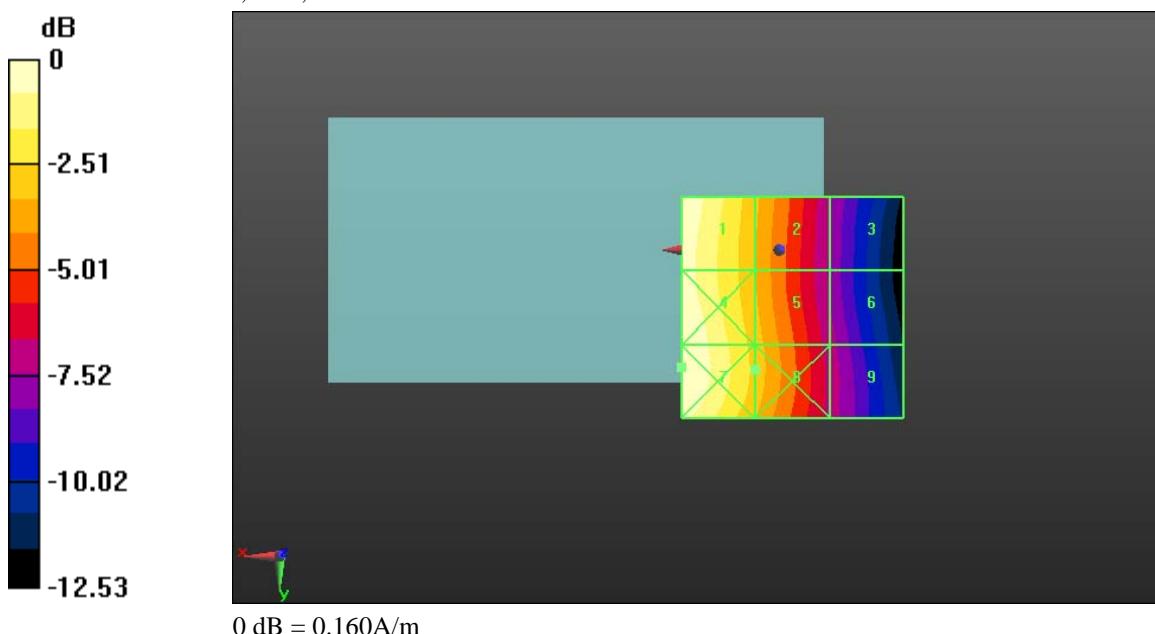
Grid 1	Grid 2	Grid 3
0.161 M4	0.112 M4	0.068 M4
Grid 4	Grid 5	Grid 6
0.162 M4	0.115 M4	0.071 M4
Grid 7	Grid 8	Grid 9
0.164 M4	0.117 M4	0.072 M4

Cursor:

Total = 0.164 A/m

H Category: M4

Location: 22, 26.5, 8.7 mm



 Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW			Page 195 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW	

Date/Time: 5/16/2011 2:54:56 PM, Date/Time: 5/16/2011 2:58:44 PM, Date/Time: 5/16/2011 3:07:55 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz, Frequency: 1880 MHz, Frequency: 1907.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/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 = 0.067 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.061 A/m; Power Drift = 0.0018 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 196 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Peak H-field in A/m

Grid 1 0.096 M4	Grid 2 0.075 M4	Grid 3 0.066 M4
Grid 4 0.064 M4	Grid 5 0.067 M4	Grid 6 0.066 M4
Grid 7 0.060 M4	Grid 8 0.057 M4	Grid 9 0.057 M4

Cursor:

Total = 0.096 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

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

Maximum value of peak Total field = 0.074 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.067 A/m; Power Drift = -0.0088 dB

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

Peak H-field in A/m

Grid 1 0.105 M4	Grid 2 0.087 M4	Grid 3 0.072 M4
Grid 4 0.071 M4	Grid 5 0.074 M4	Grid 6 0.072 M4
Grid 7 0.064 M4	Grid 8 0.061 M4	Grid 9 0.061 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page 197 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B FCC ID L6ARDD70UW L6ARDX70UW

Cursor:

Total = 0.105 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.074 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.069 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.102 M4	0.083 M4	0.073 M4
Grid 4	Grid 5	Grid 6
0.070 M4	0.074 M4	0.073 M4
Grid 7	Grid 8	Grid 9
0.064 M4	0.063 M4	0.063 M4

Cursor:

Total = 0.102 A/m

H Category: M4

Location: 25, -25, 8.7 mm

Author Data

Daoud Attayi

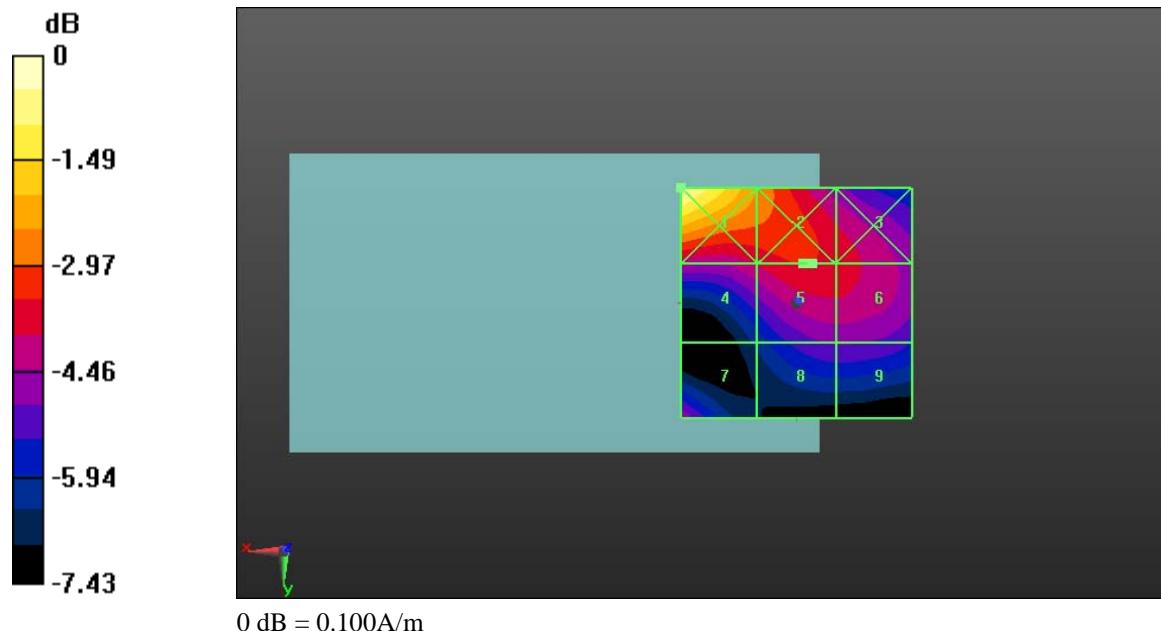
Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

	Document	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW	Page
			199 (200)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011	Report No RTS-2579-1107-18B	FCC ID L6ARDD70UW L6ARDX70UW

Date/Time: 5/16/2011 3:11:35 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band II_telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 0.069 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.069 A/m; Power Drift = 0.06 dB

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



Document

Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDD71UW/RDX71UW

Page

200 (200)

Author Data

Daoud Attayi

Dates of Test

Feb 28, Mar. 22-23, Apr. 05, May 13-16, June 20-21, July 11, 2011

Report No

RTS-2579-1107-18B

FCC ID

L6ARDD70UW**L6ARDX70UW**

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.074 M4	0.076 M4	0.072 M4
Grid 4	Grid 5	Grid 6
0.059 M4	0.066 M4	0.066 M4
Grid 7	Grid 8	Grid 9
0.069 M4	0.050 M4	0.051 M4

Cursor:

Total = 0.076 A/m

H Category: M4

Location: -0.5, -12, 8.7 mm

