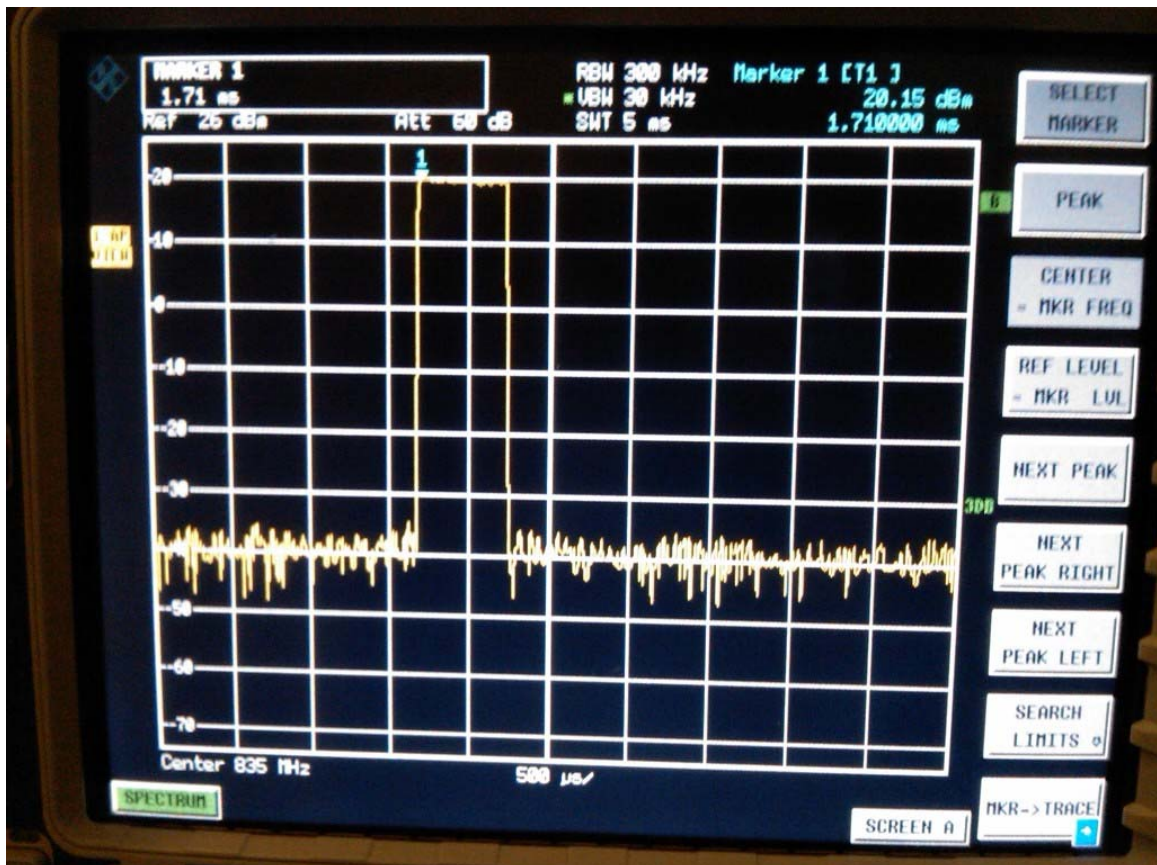


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 1 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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 REA71UW		Page 2 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



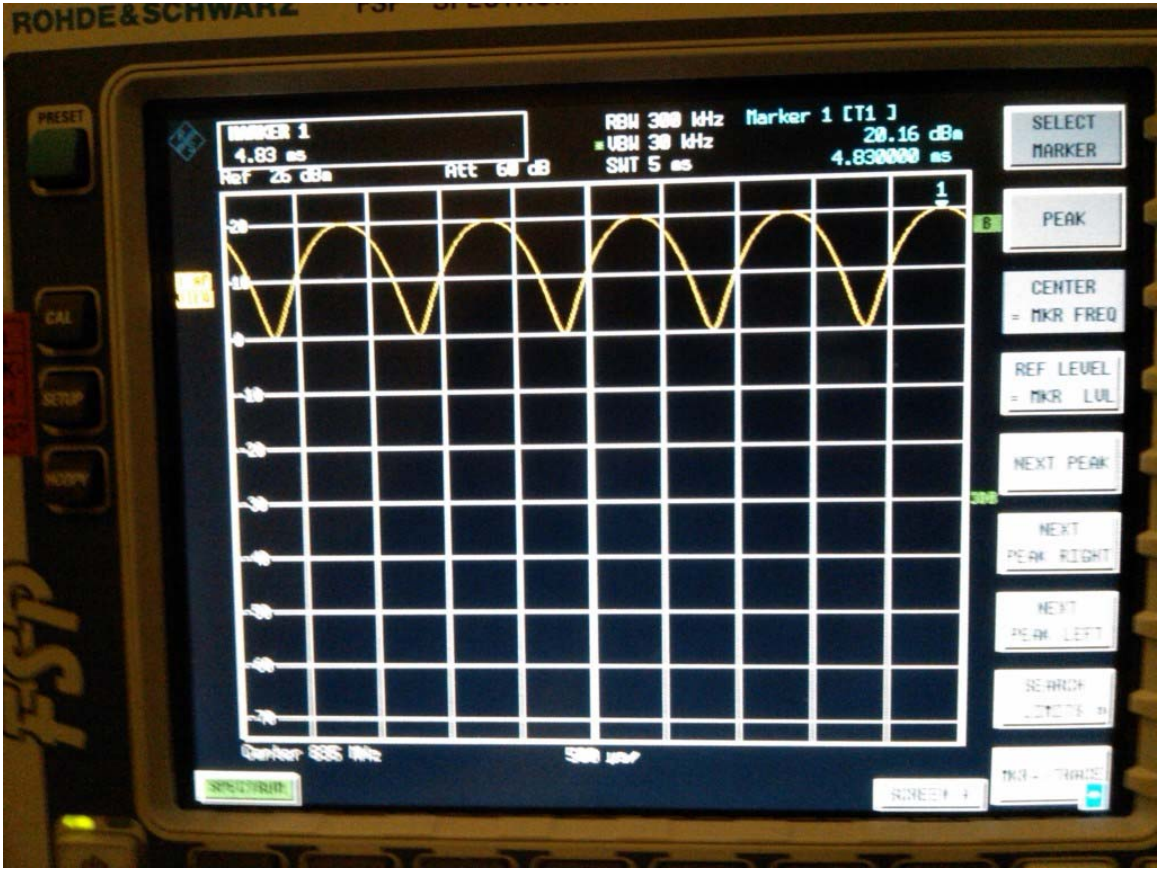
GSM 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 3 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW



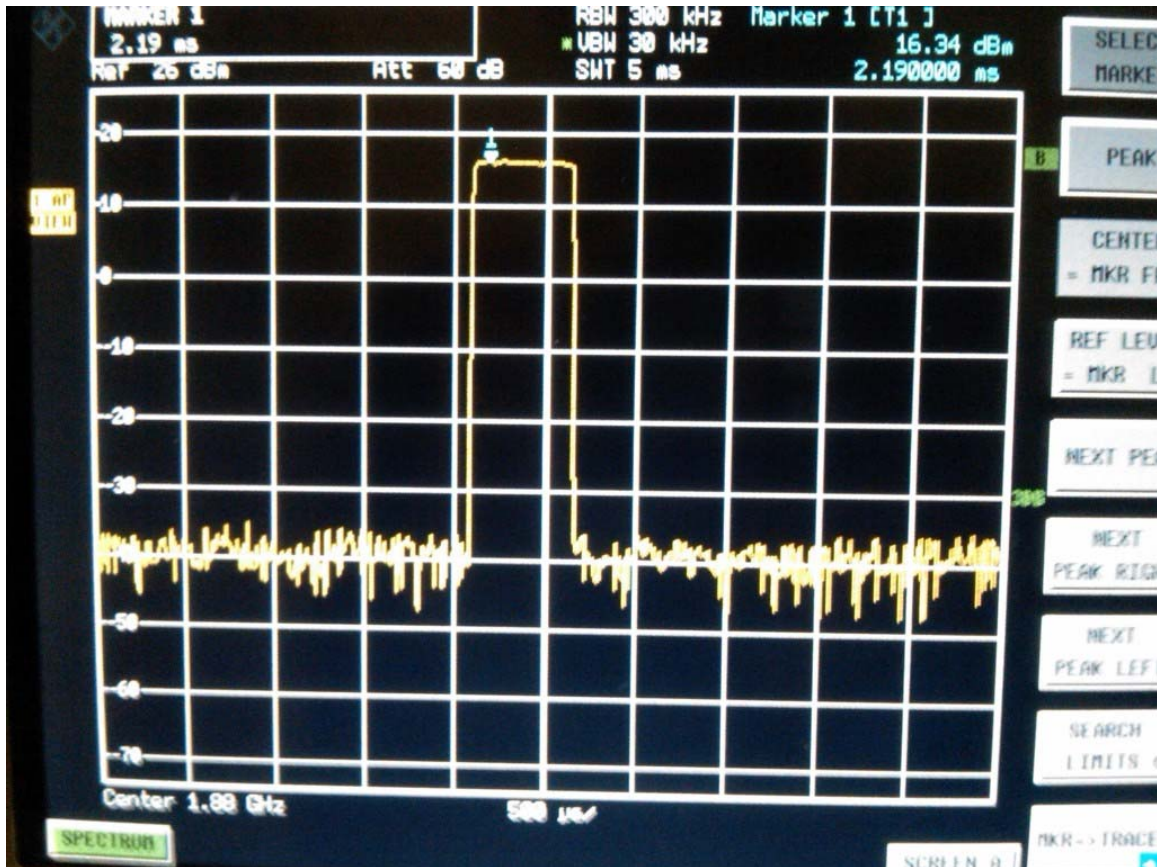
CW 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 4 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



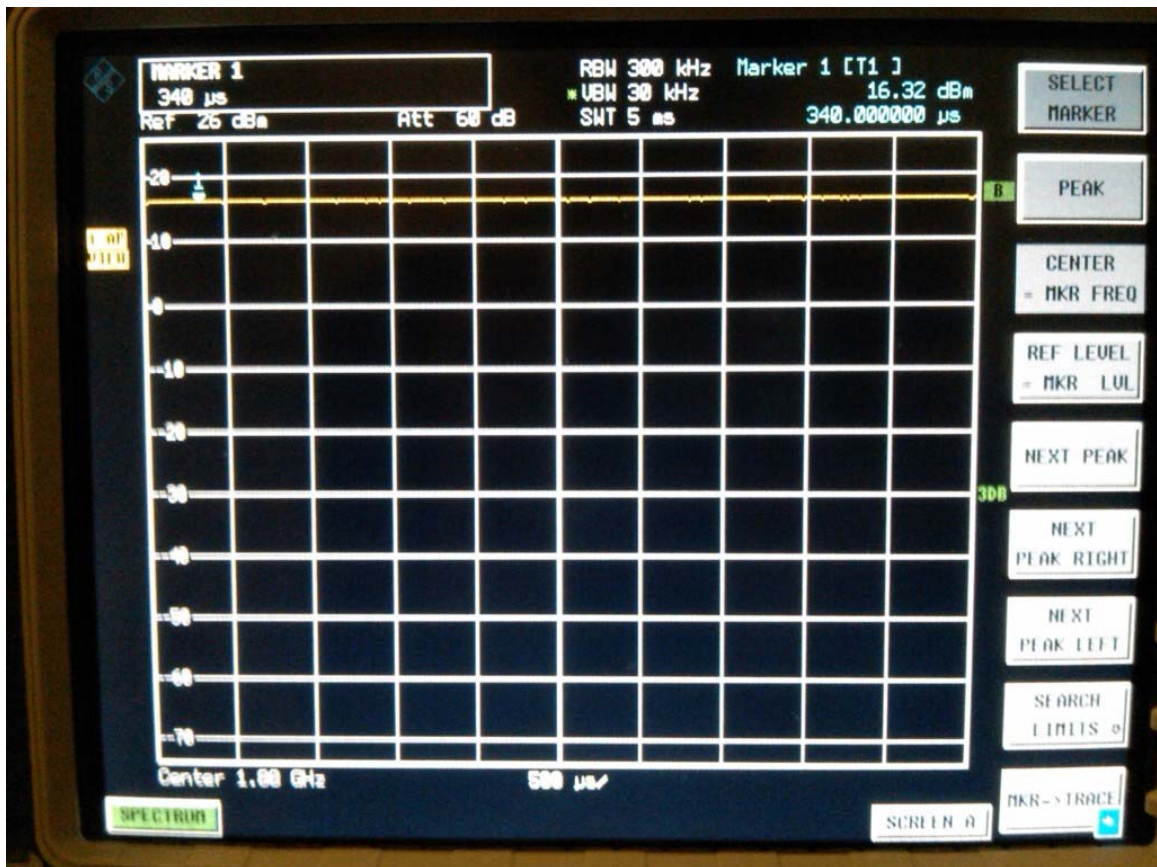
AM 80% 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 5 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



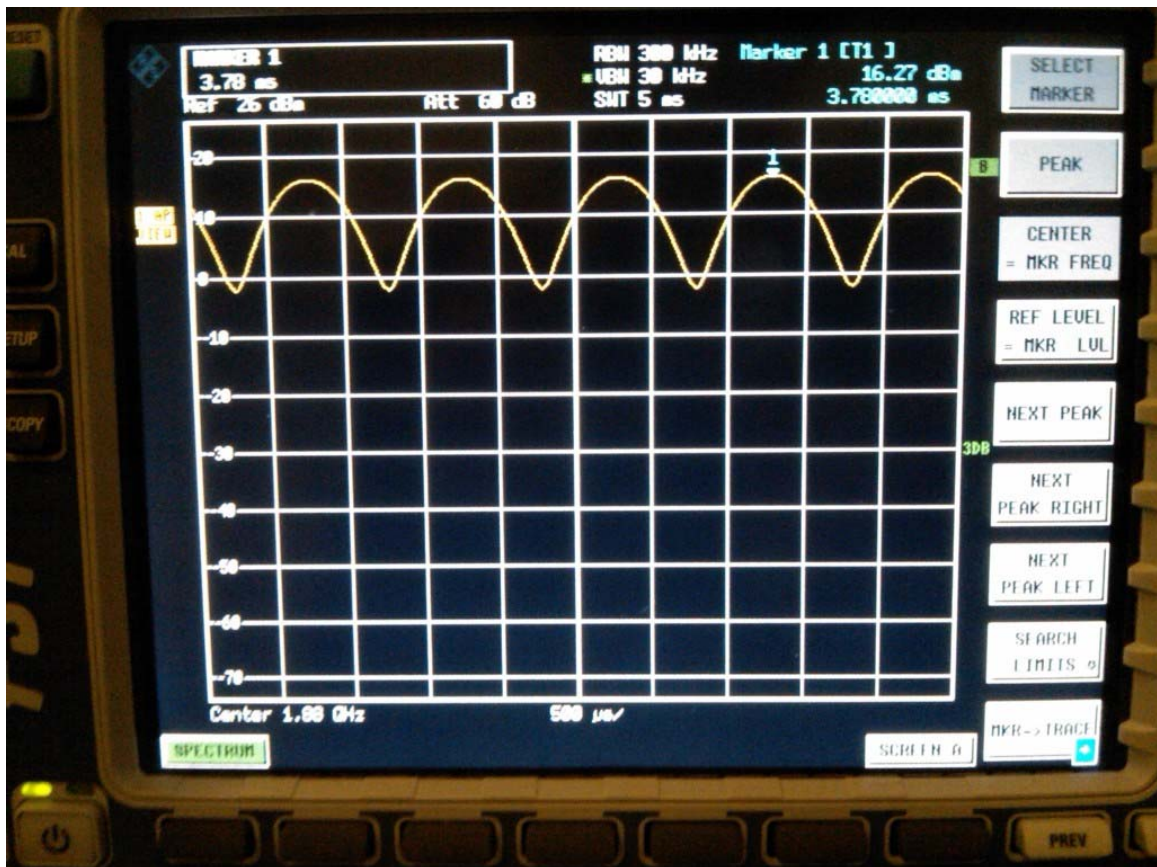
GSM 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 6 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



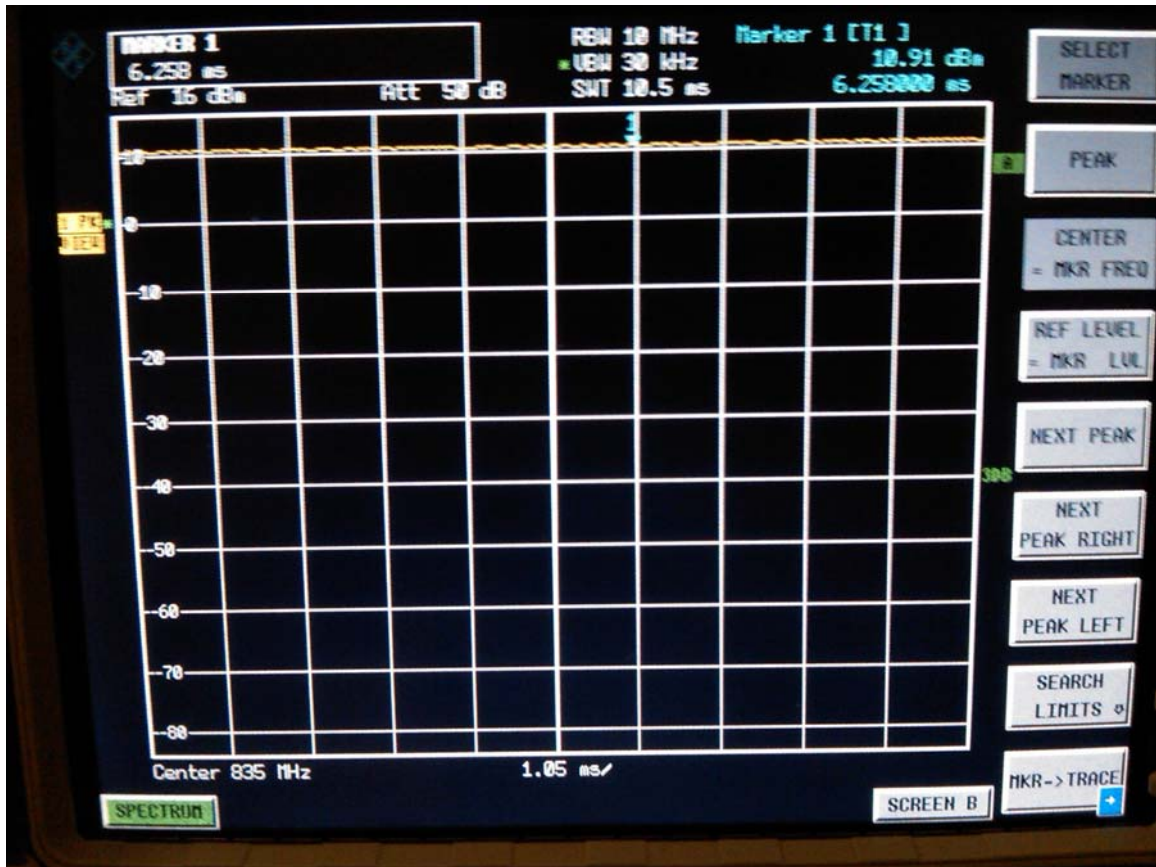
CW 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 7 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW



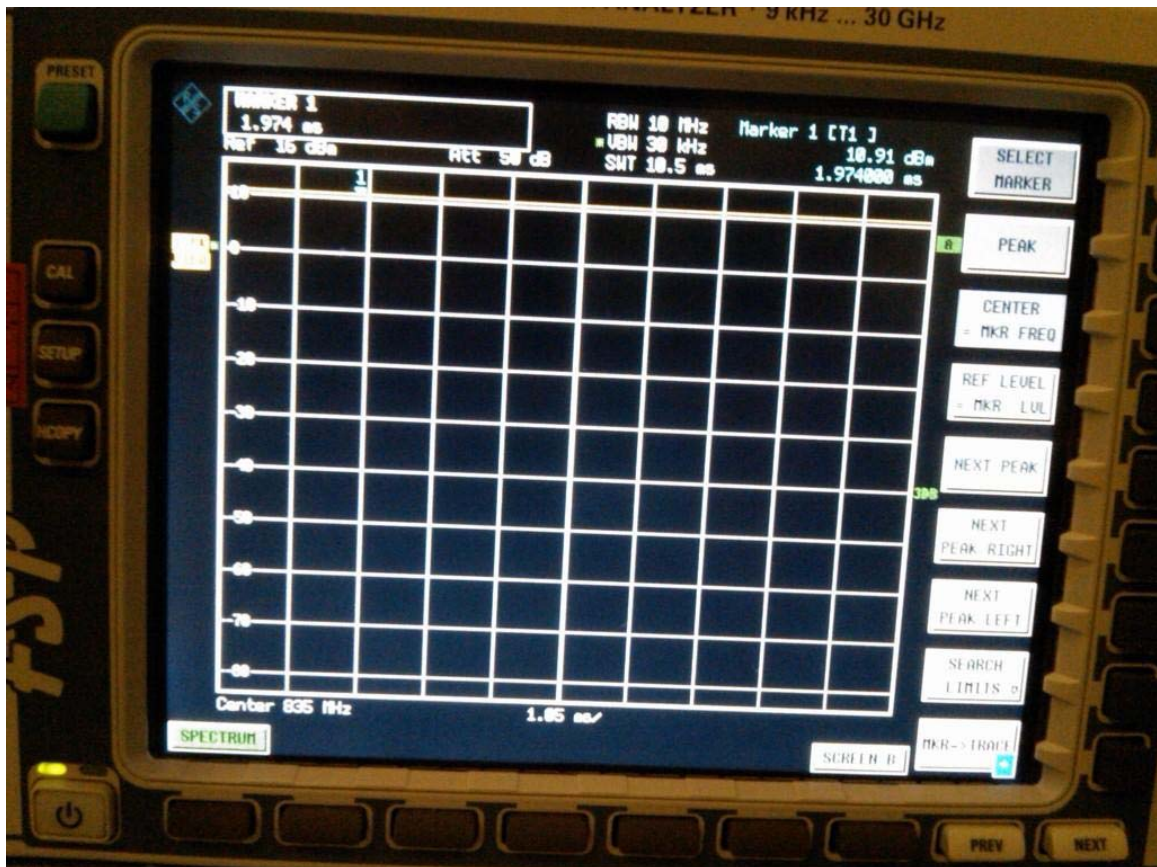
AM 80 % 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 8 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW



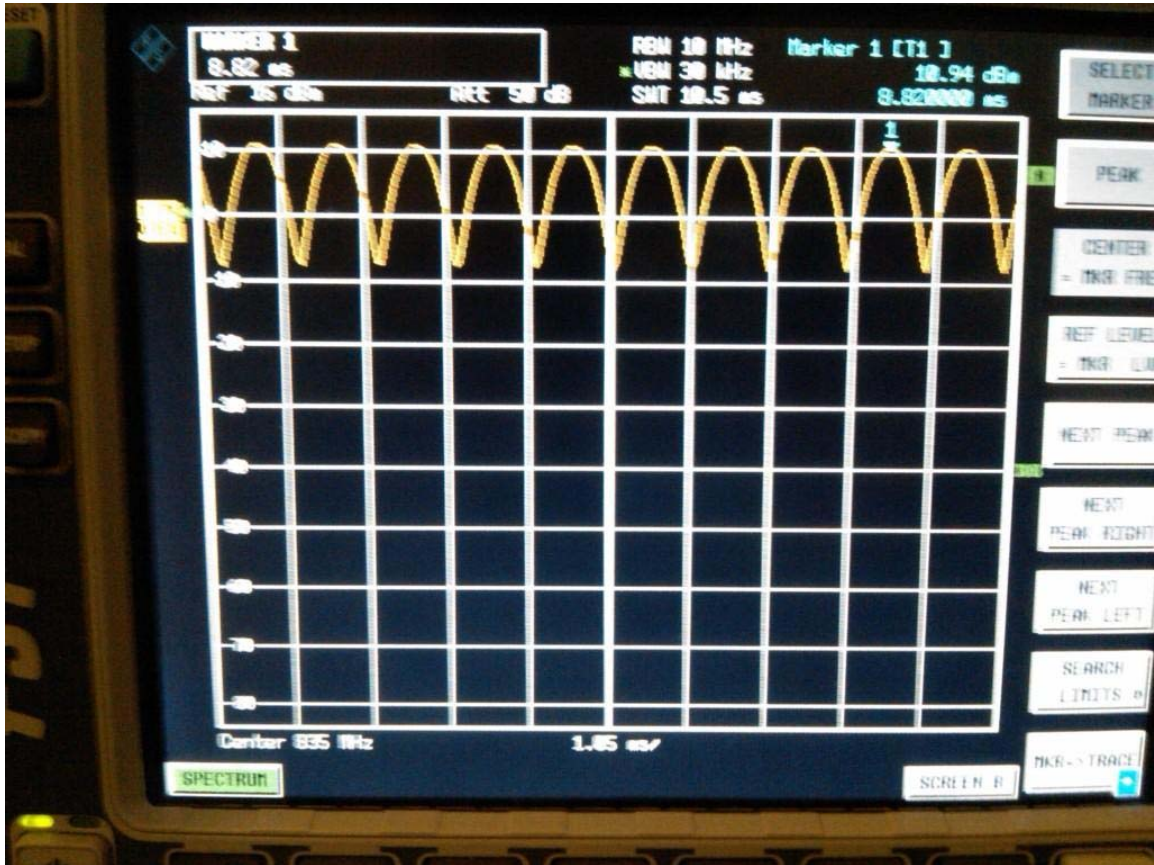
UMTS 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 9 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



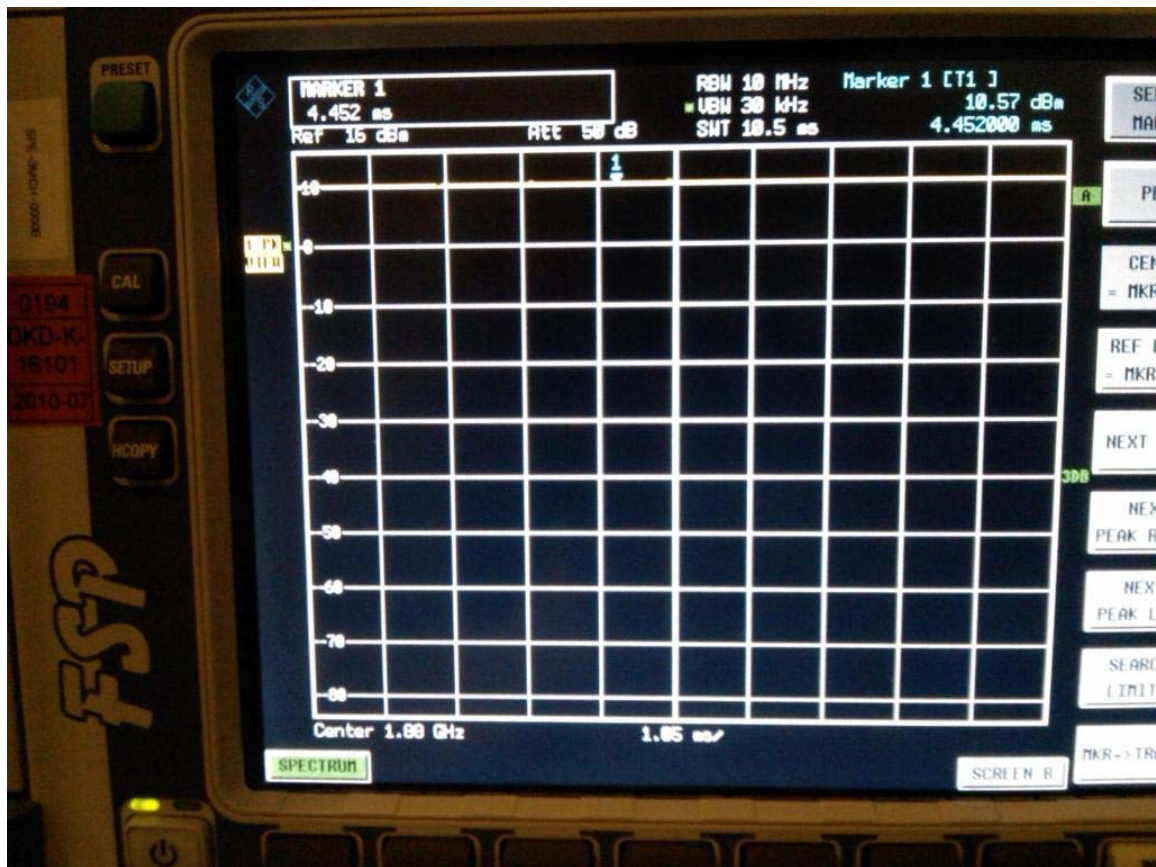
CW 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 10 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



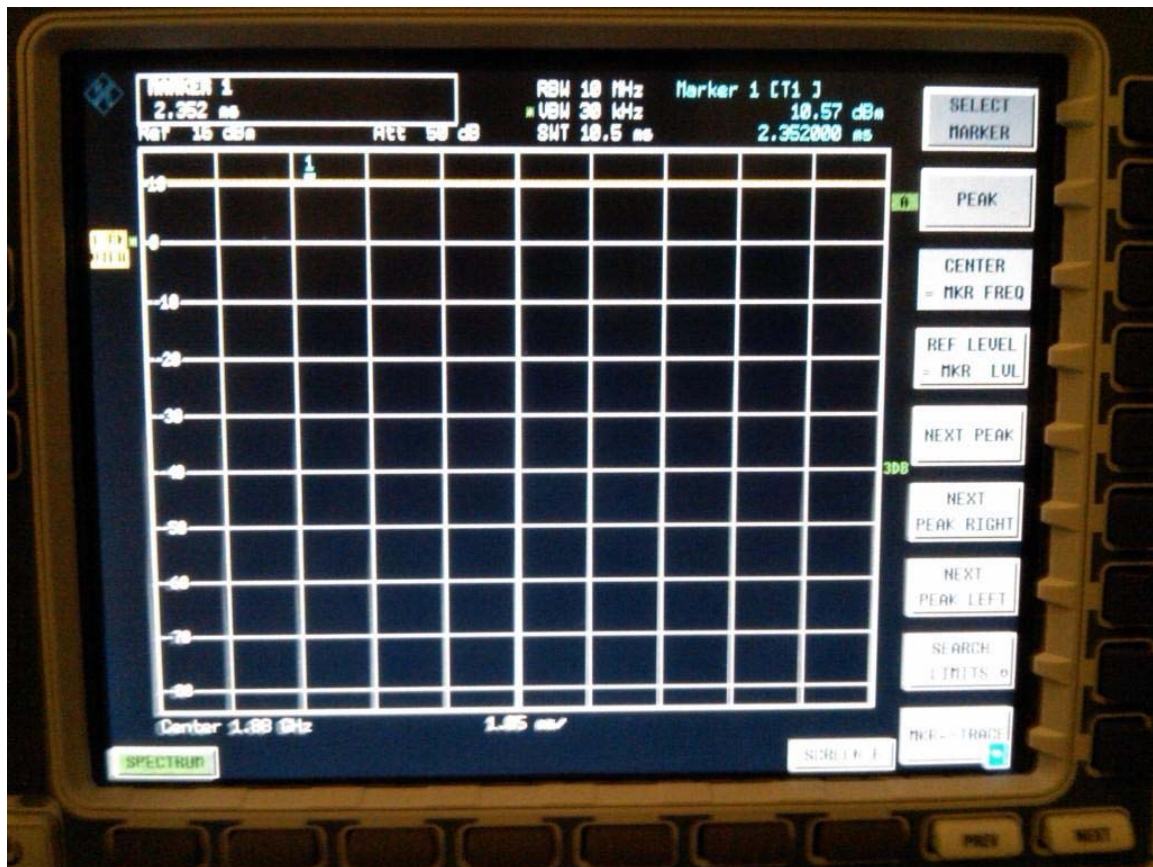
AM 80% 835 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 11 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



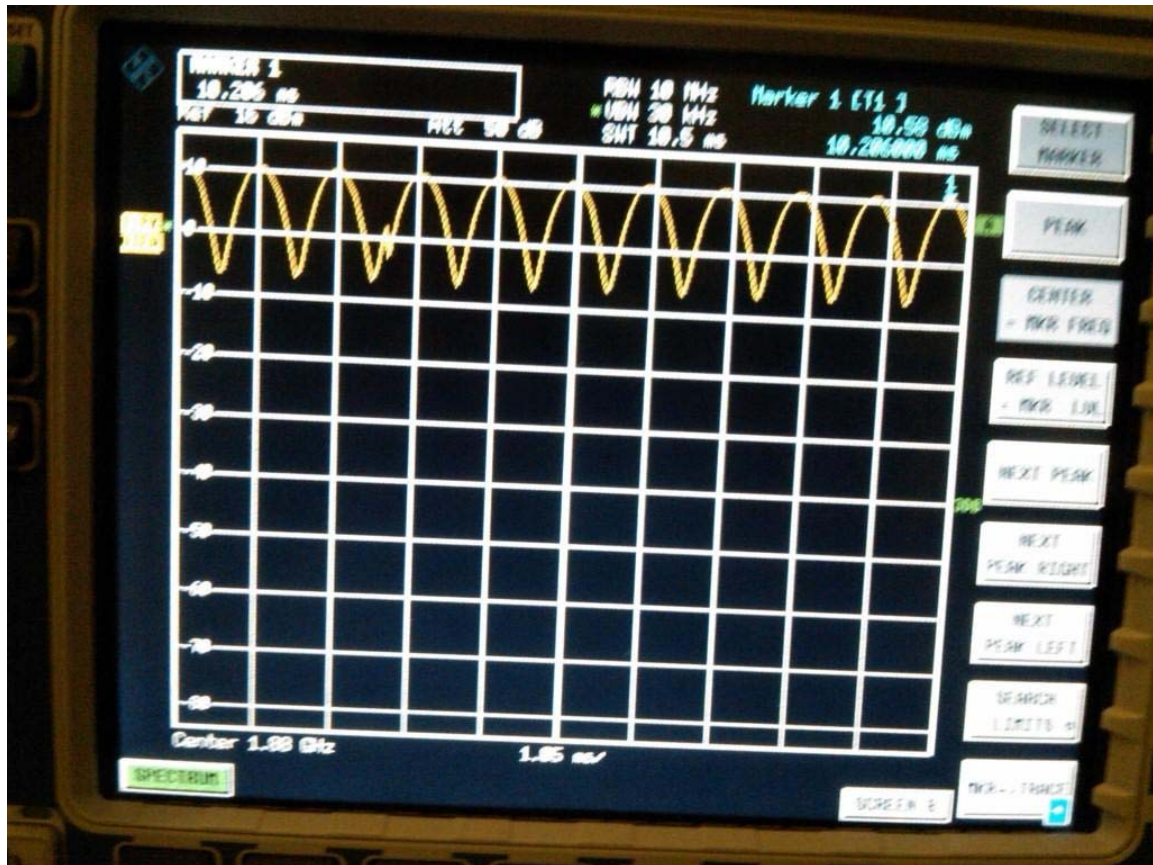
UMTS 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 12 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



CW 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 13 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



AM 80 % 1880 MHz

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 14 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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 REA71UW		Page 15 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 9/6/2011 12:21:44 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_09_06_11

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Frequency: 835 MHz

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 = 157.2 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 118.2 V/m; Power Drift = 0.003 dB

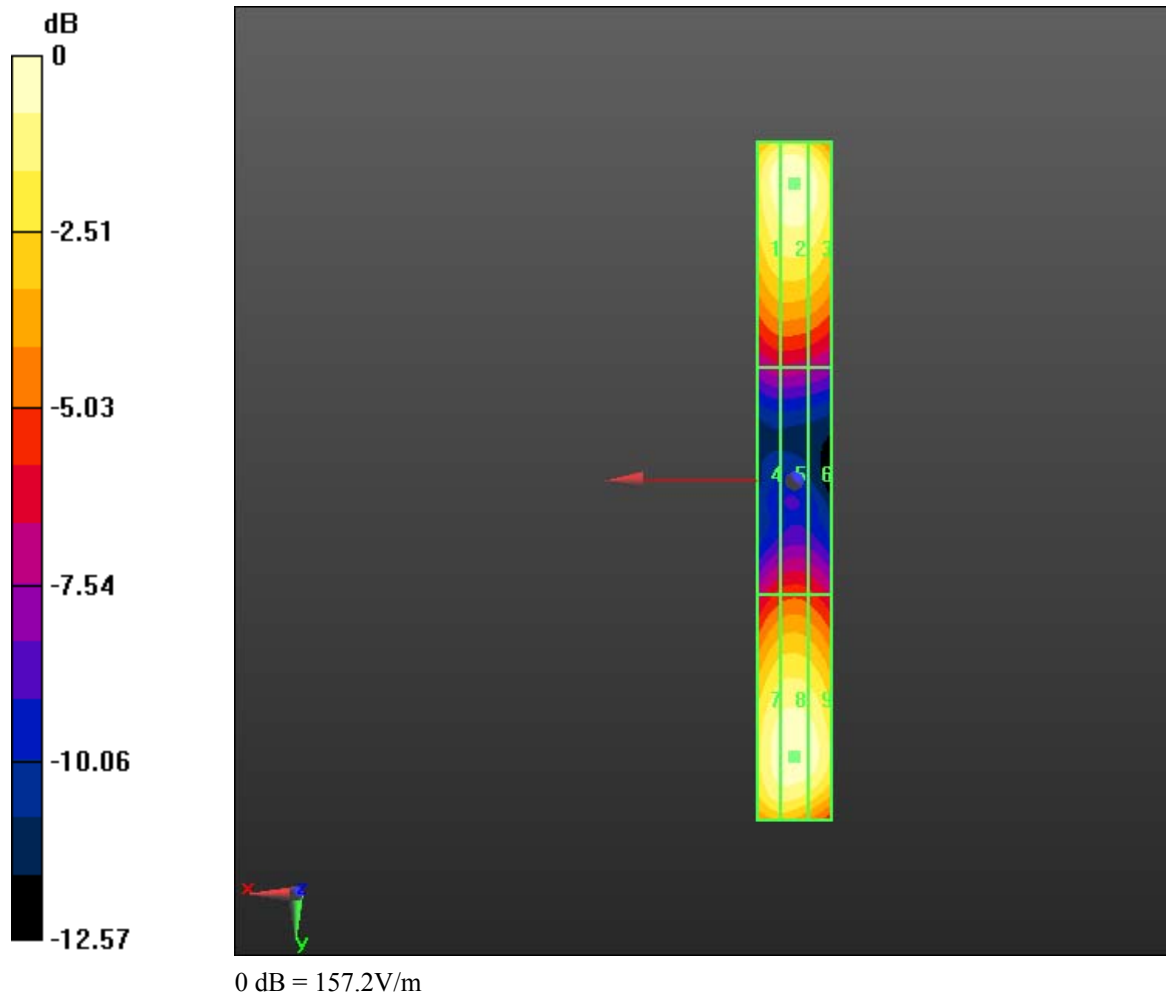
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1 154.0 M4	Grid 2 157.2 M4	Grid 3 152.8 M4
Grid 4 83.638 M4	Grid 5 85.844 M4	Grid 6 83.612 M4
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 16 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

151.7 M4	155.2 M4	152.2 M4
----------	----------	----------



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 17 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 7/28/2011 2:17:53 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_835 MHz_07_28_11

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: DASYS (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: DASYS2, 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 = 164.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 119.3 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 160.2 M4	Grid 2 164.3 M4	Grid 3 160.1 M4
Grid 4 83.918 M4	Grid 5 88.015 M4	Grid 6 86.156 M4

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 18 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

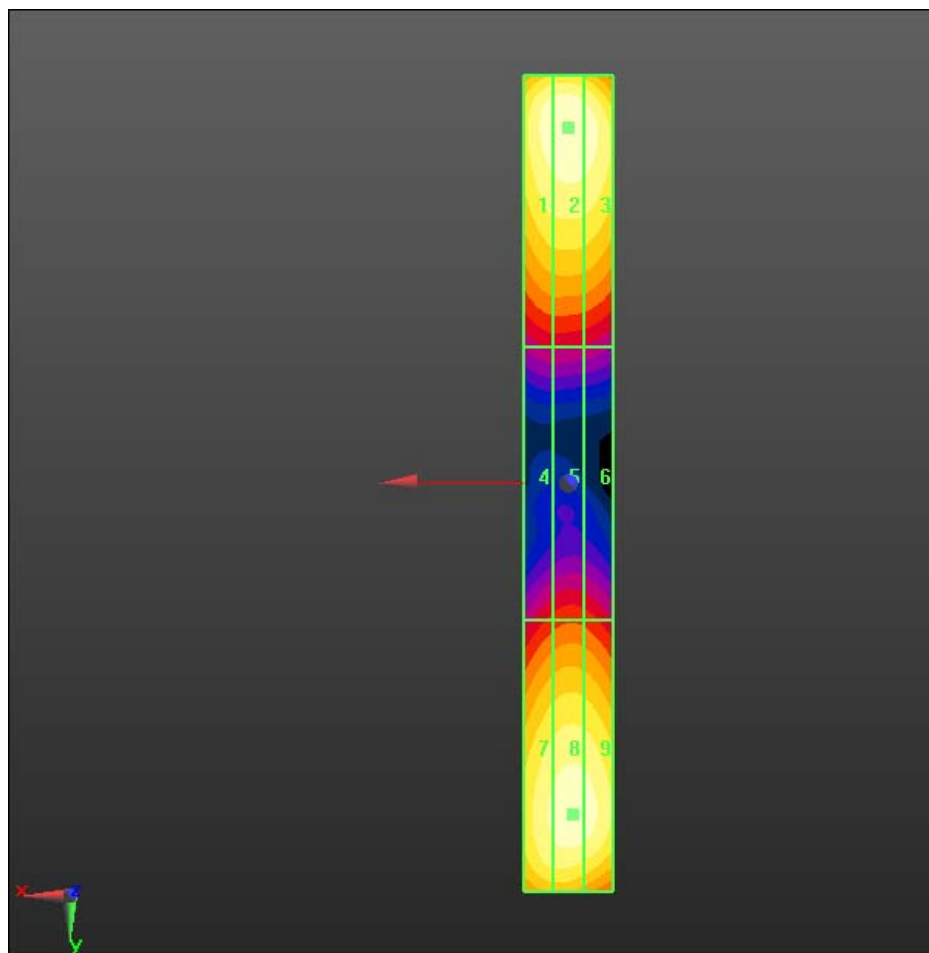
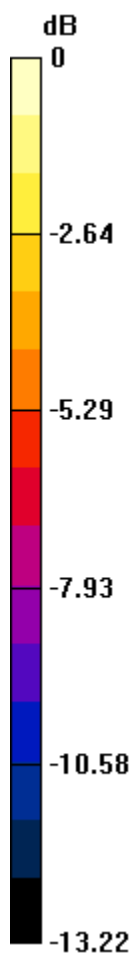
Grid 7 151.5 M4	Grid 8 158.5 M4	Grid 9 156.7 M4
---------------------------	---------------------------	---------------------------

Cursor:

Total = 164.3 V/m

E Category: M4

Location: 0, -78.5, 4.7 mm



0 dB = 164.3V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 19 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 20 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

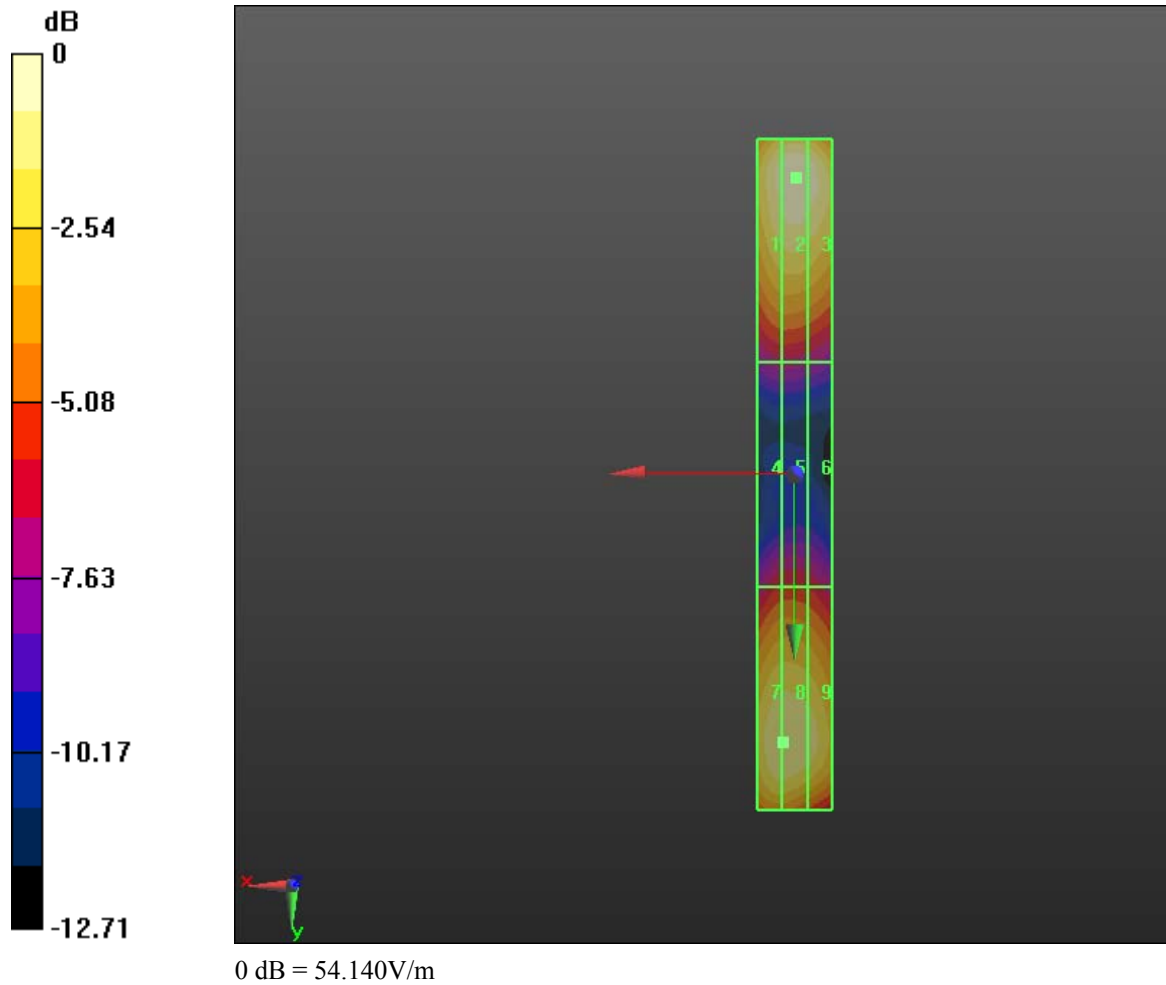
Cursor:

Total = 54.142 V/m

E Category: M4

Location: -0.5, -79.5, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 21 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 22 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 23 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

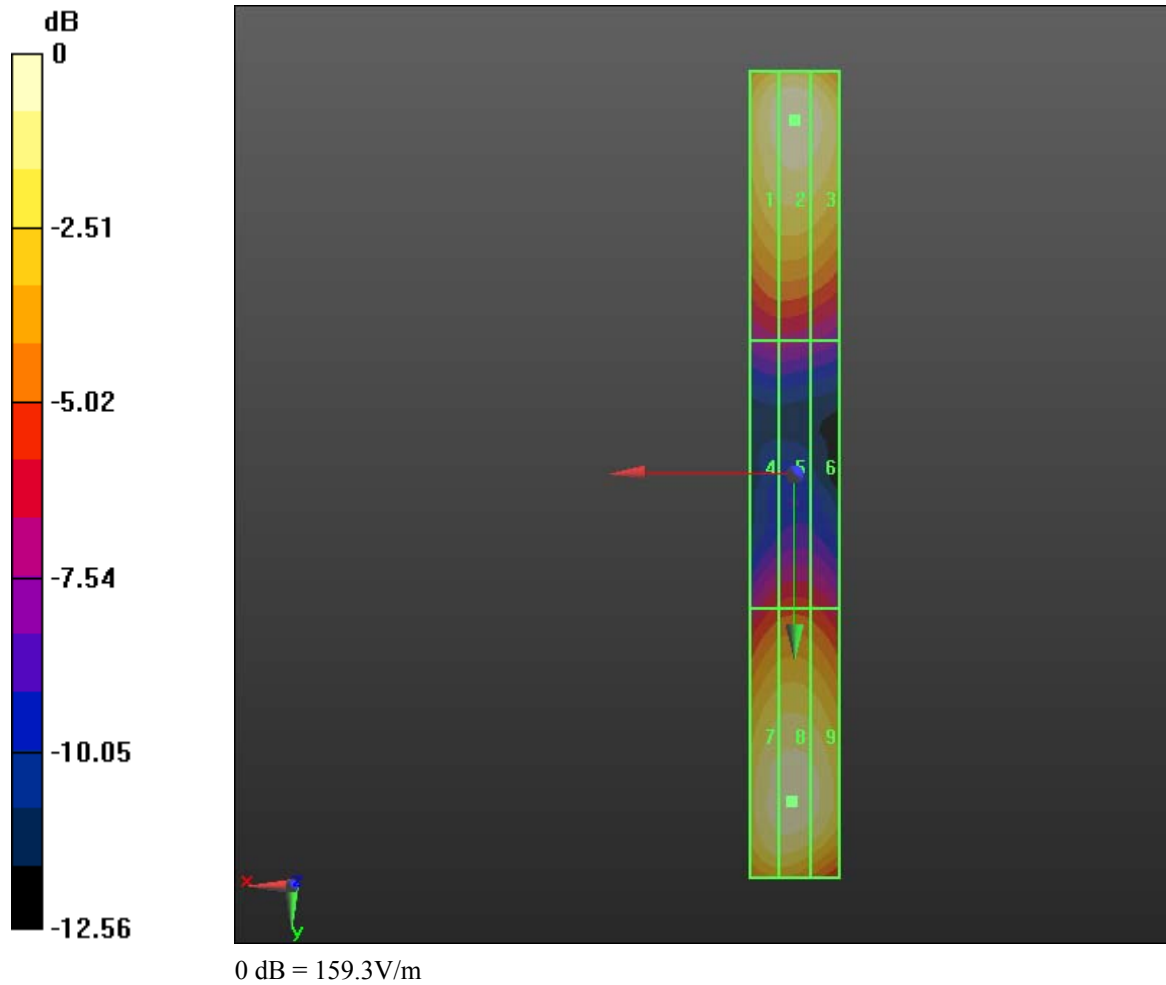
Cursor:

Total = 159.3 V/m

E Category: M4

Location: 0, -79, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 24 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 25 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 26 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

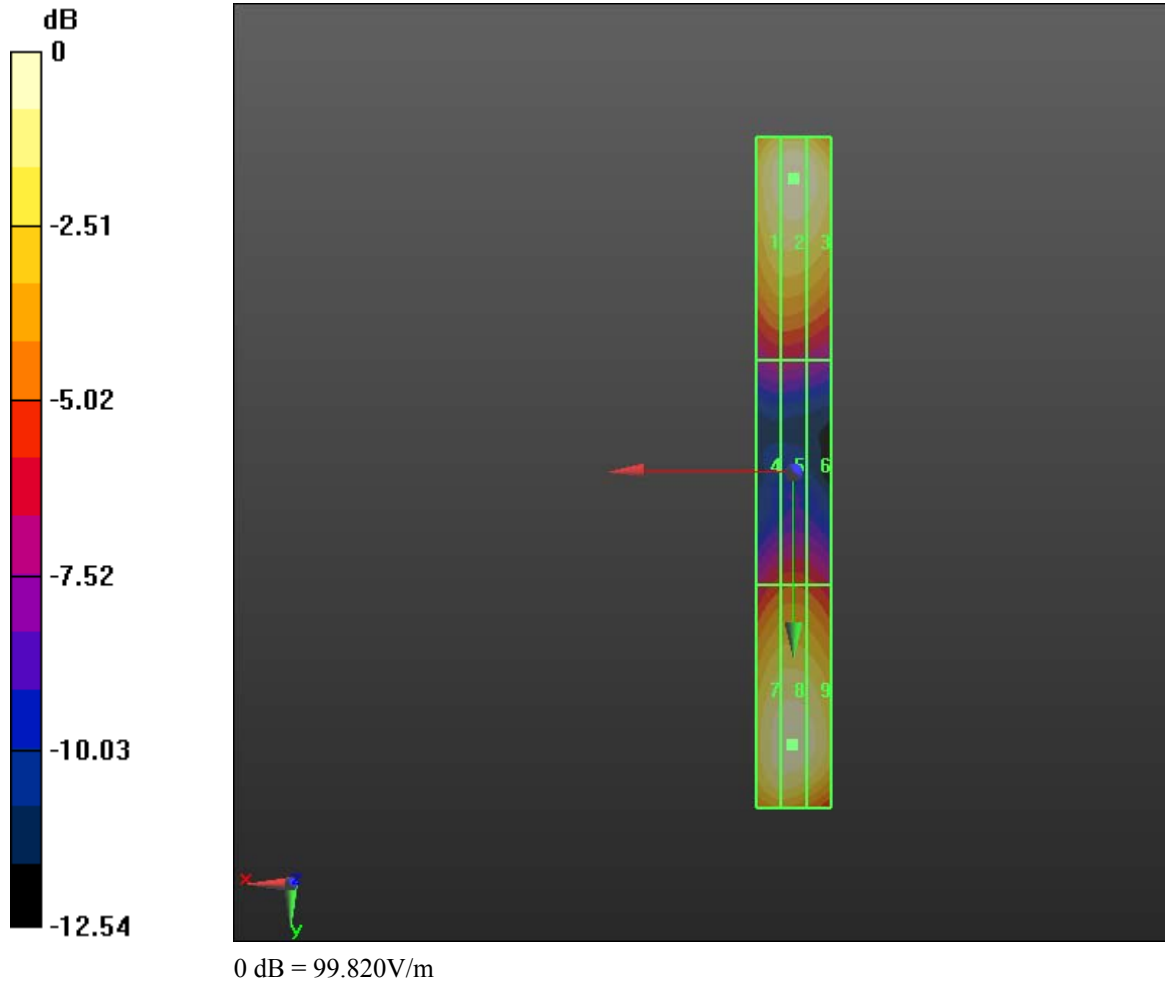
Cursor:

Total = 99.821 V/m

E Category: M4

Location: 0, -79, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 27 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 28 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 9/6/2011 12:38:29 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_09_06_11

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz

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 CD1880 Dipole = 10mm/Hearing Aid Compatibility Test

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

Maximum value of peak Total field = 132.7 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 121.7 V/m; Power Drift = 0.01 dB

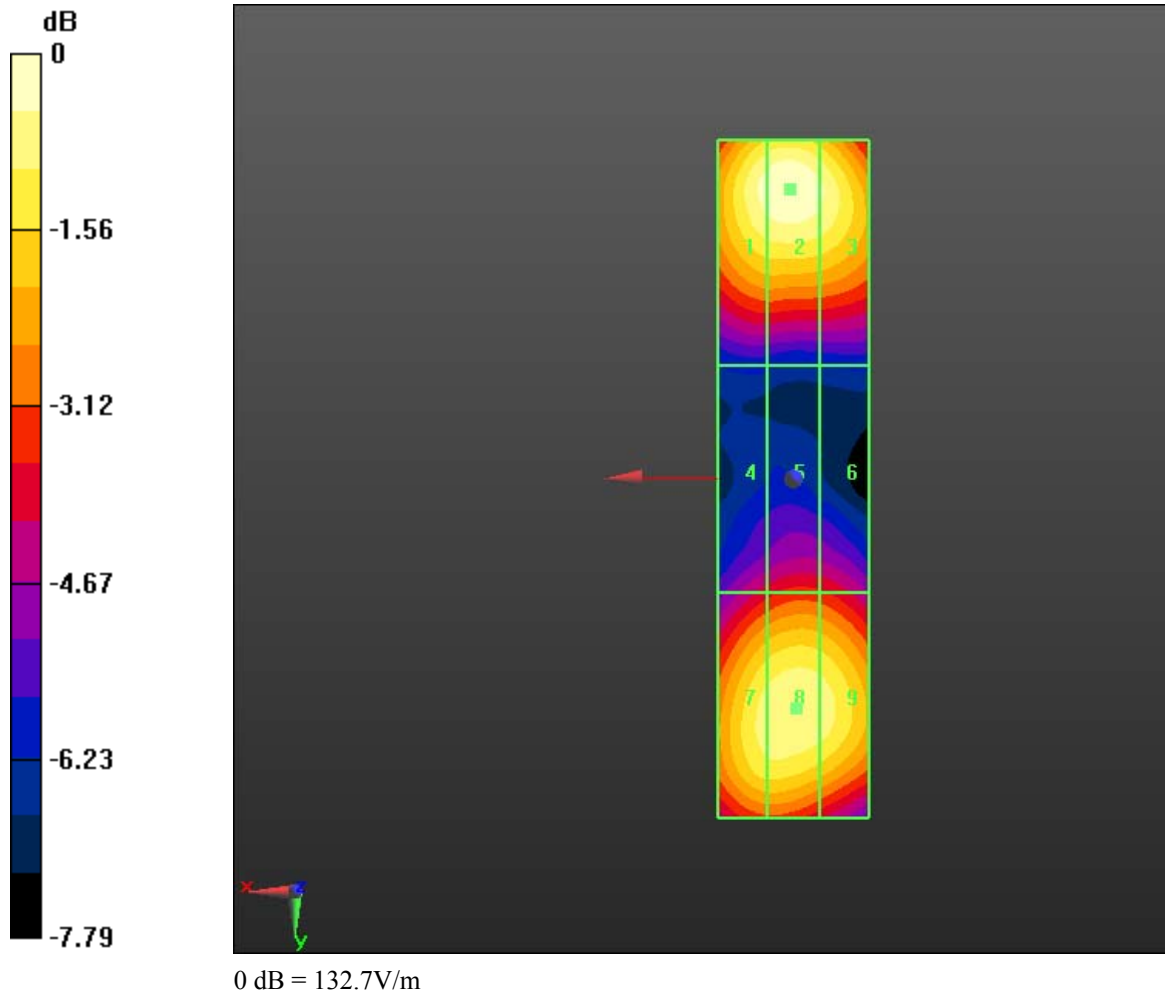
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 129.0 M2	Grid 2 132.7 M2	Grid 3 126.6 M2
Grid 4 84.974 M3	Grid 5 89.583 M3	Grid 6 88.503 M3
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 29 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

121.7 M2	124.6 M2	122.3 M2
----------	----------	----------



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 30 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 7/28/2011 2:35:18 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz_07_28_11

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 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 = 129.3 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 121.3 V/m; Power Drift = 0.03 dB

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

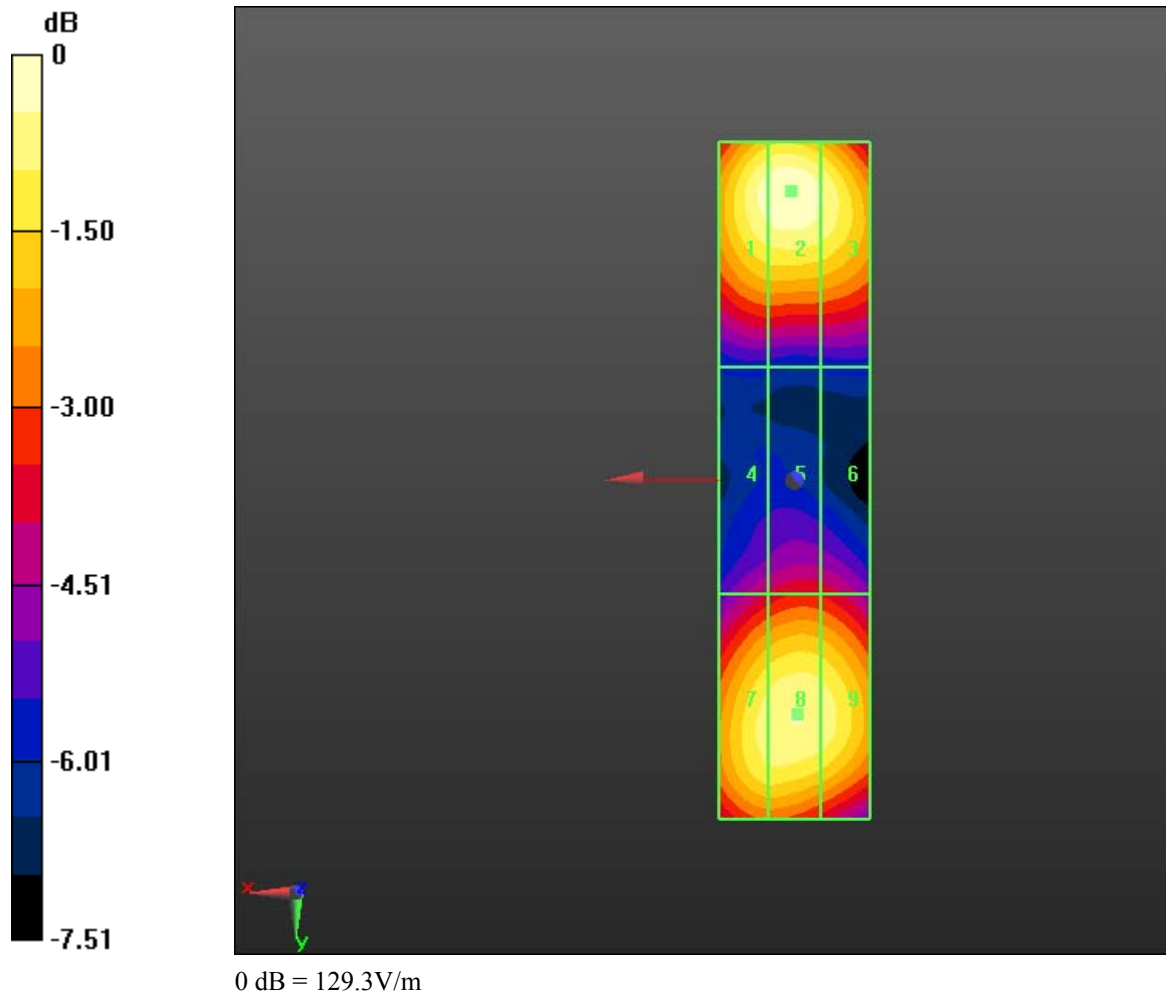
Peak E-field in V/m

Grid 1 126.4 M2	Grid 2 129.3 M2	Grid 3 123.2 M2
Grid 4 82.402 M3	Grid 5 86.640 M3	Grid 6 85.561 M3

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 31 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Grid 7 119.3 M2	Grid 8 122.4 M2	Grid 9 120.1 M2
---------------------------	---------------------------	---------------------------



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 32 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 33 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

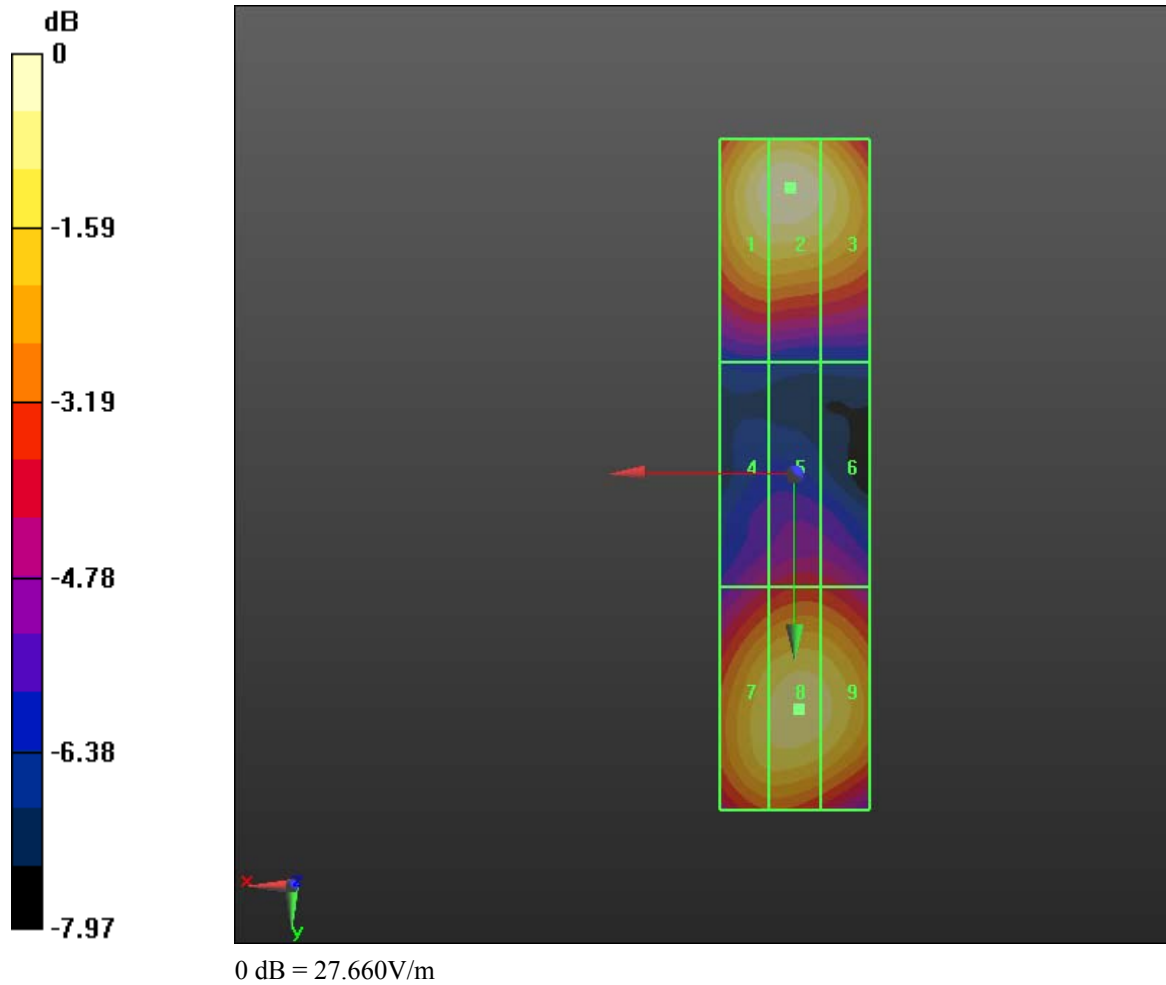
Cursor:

Total = 27.663 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 34 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 35 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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 REA71UW		Page 36 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak E-field in V/m

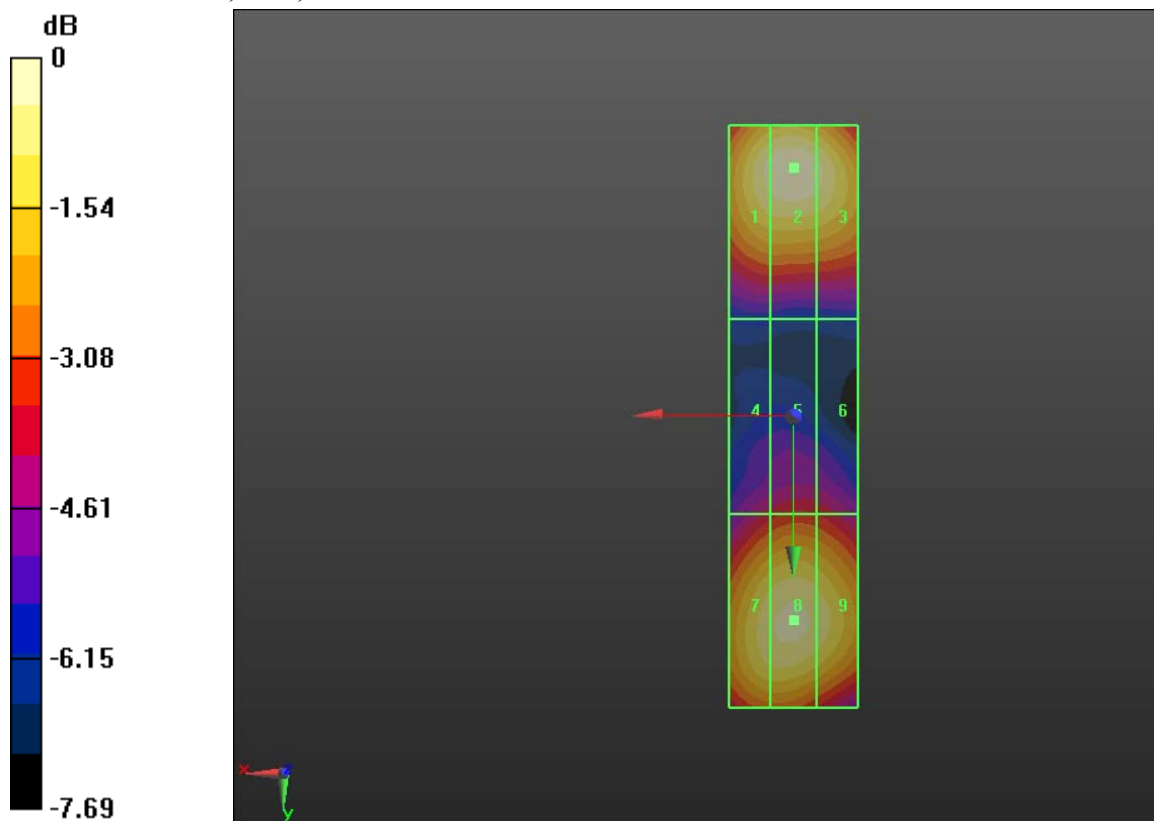
Grid 1 79.692 M3	Grid 2 82.216 M3	Grid 3 79.228 M3
Grid 4 52.849 M4	Grid 5 55.292 M4	Grid 6 54.232 M4
Grid 7 76.960 M3	Grid 8 78.815 M3	Grid 9 76.489 M3

Cursor:

Total = 82.216 V/m

E Category: M3

Location: 0, -38.5, 4.7 mm



0 dB = 82.220V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 37 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 38 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

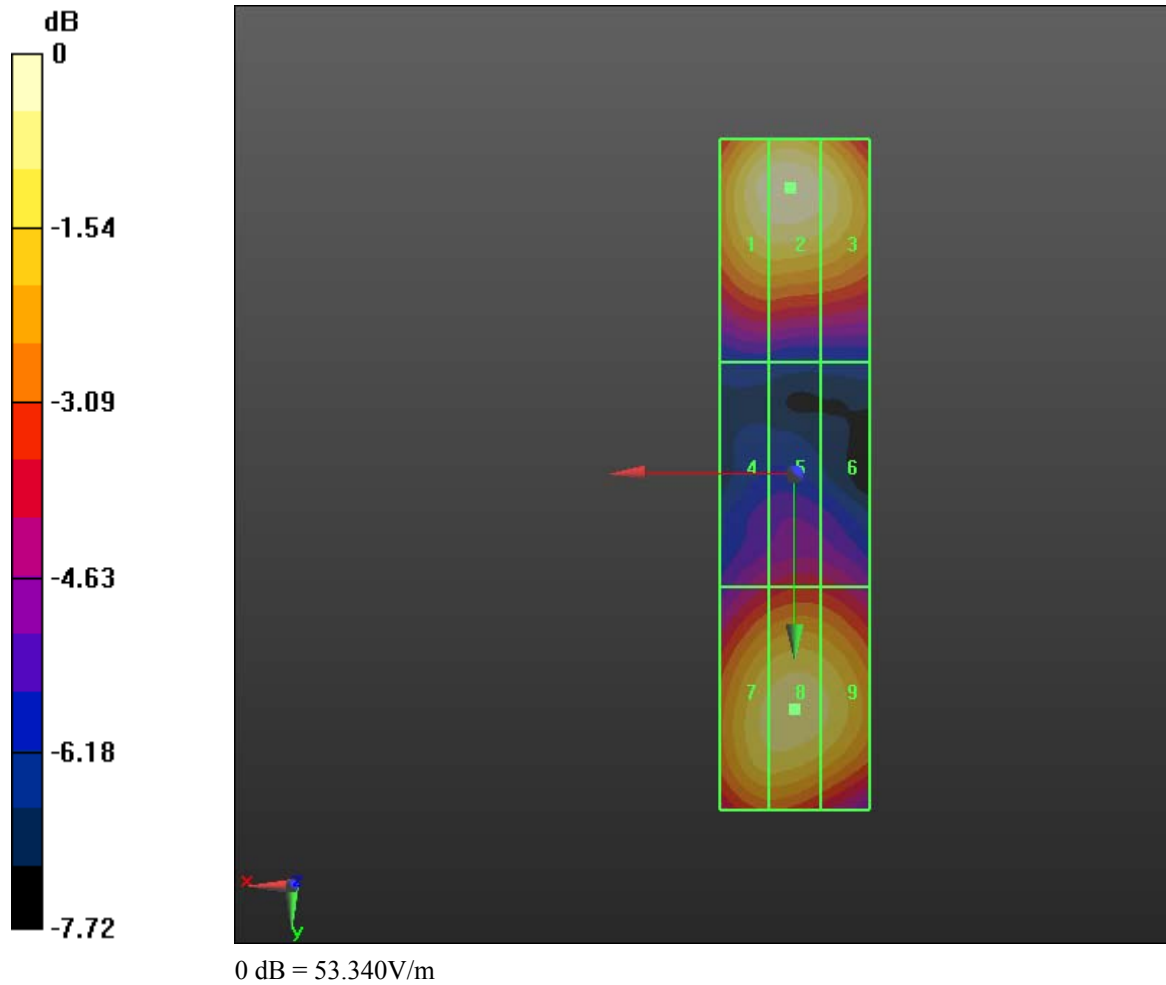
Cursor:

Total = 53.337 V/m

E Category: M4

Location: 0.5, -38.5, 4.7 mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 39 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 40 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 9/6/2011 1:07:00 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_09_06_11

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: CW; Frequency: 835 MHz

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 = 0.474 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.499 A/m; Power Drift = 0.0095 dB

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

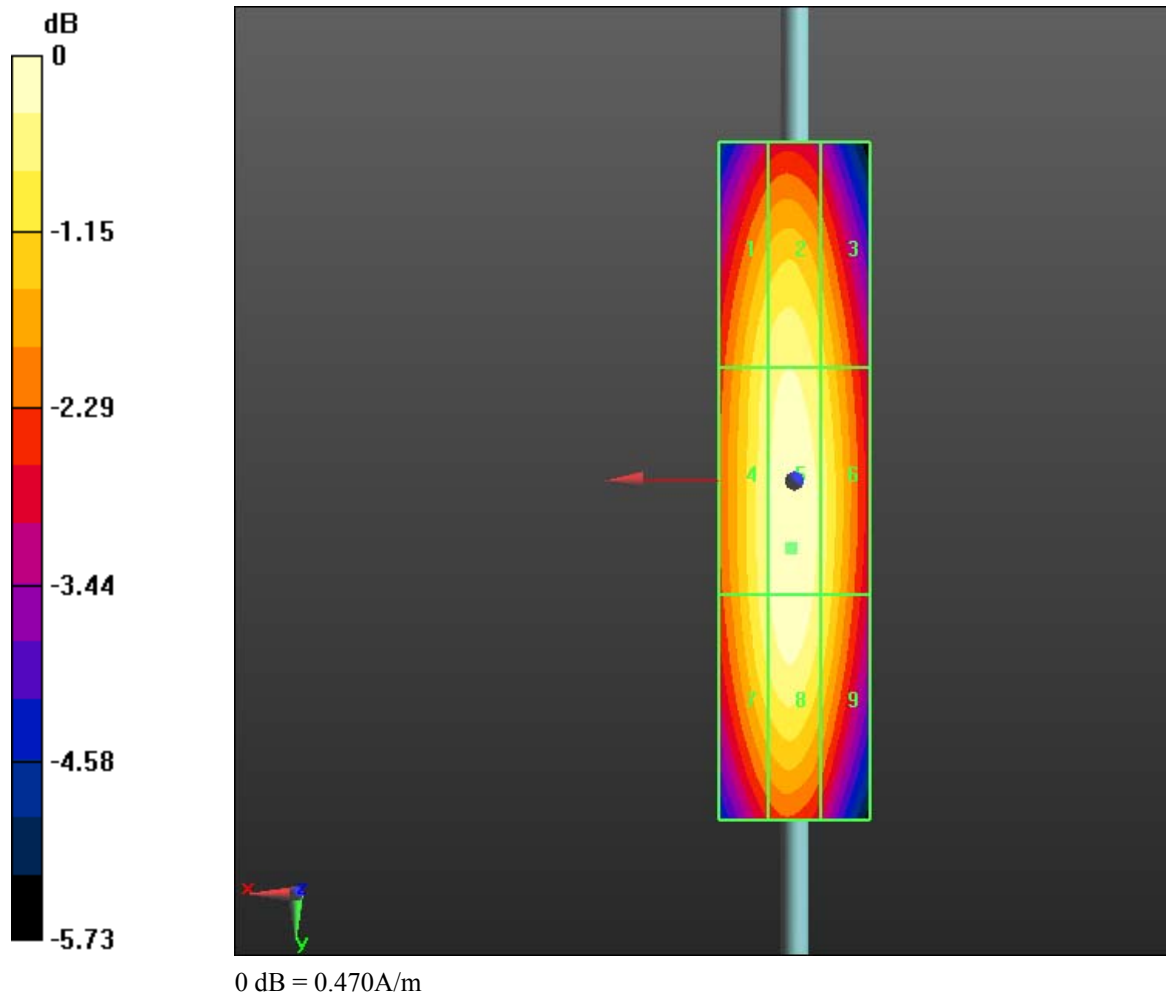
Peak H-field in A/m

Grid 1 0.437 M4	Grid 2 0.450 M4	Grid 3 0.422 M4
Grid 4 0.451 M4	Grid 5 0.474 M4	Grid 6 0.444 M4
Grid 7	Grid 8	Grid 9

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 41 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

0.448 M4	0.469 M4	0.437 M4
-----------------	-----------------	-----------------



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 42 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 7/28/2011 4:42:32 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_835 MHz_07_28_11

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

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
 - Modulation Compensation: **Not calibrated**
- 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 = 0.486 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.518 A/m; Power Drift = 0.0044 dB

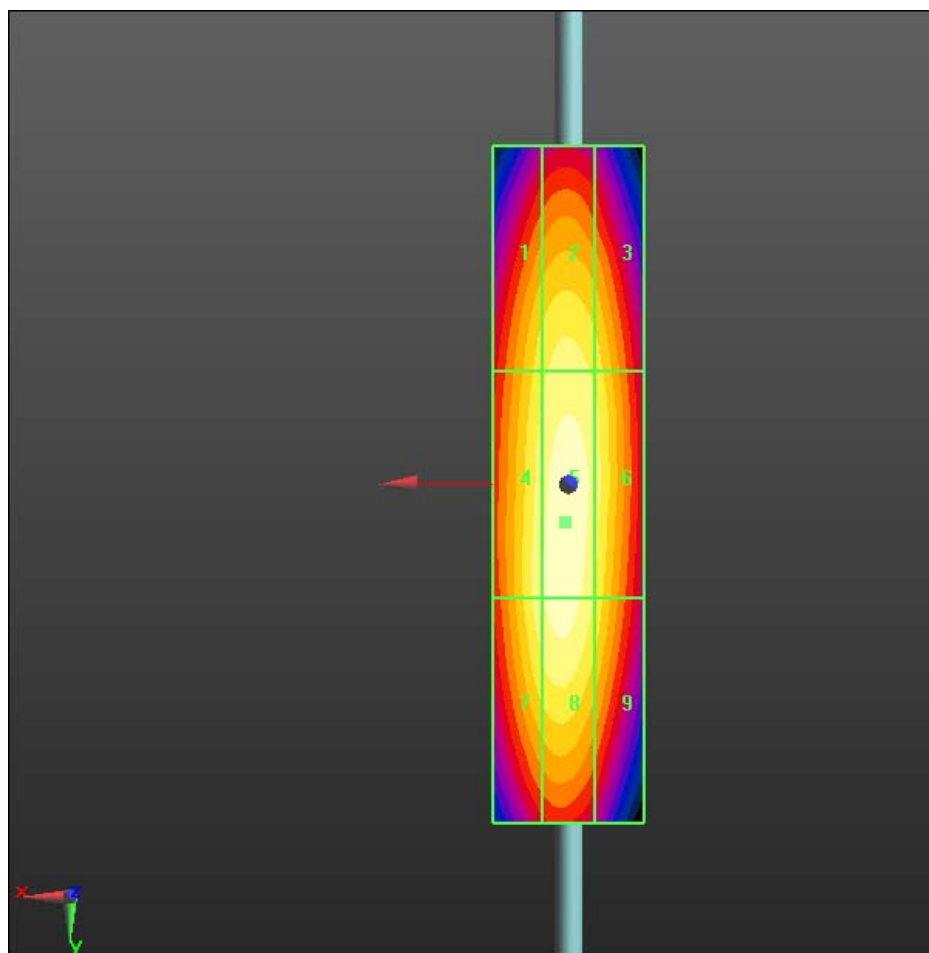
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.444 M4	Grid 2 0.460 M4	Grid 3 0.445 M4
Grid 4	Grid 5	Grid 6

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		43 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.467 M4	0.486 M4	0.462 M4
Grid 7	Grid 8	Grid 9
0.466 M4	0.481 M4	0.448 M4



0 dB = 0.490A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 44 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

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: DASYS (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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 45 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

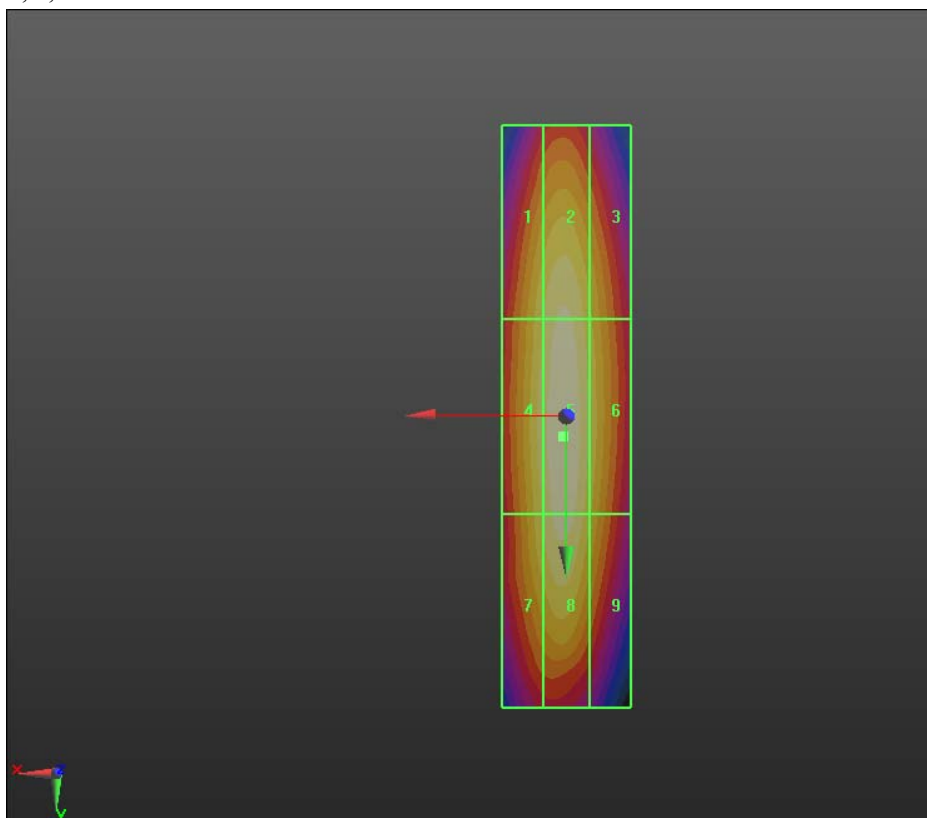
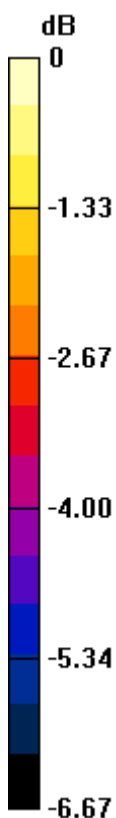
Grid 1 0.154 M4	Grid 2 0.163 M4	Grid 3 0.148 M4
Grid 4 0.159 M4	Grid 5 0.168 M4	Grid 6 0.153 M4
Grid 7 0.155 M4	Grid 8 0.165 M4	Grid 9 0.148 M4

Cursor:

Total = 0.168 A/m

H Category: M4

Location: 0.5, 3, 4.7 mm



0 dB = 0.170A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 46 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 47 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

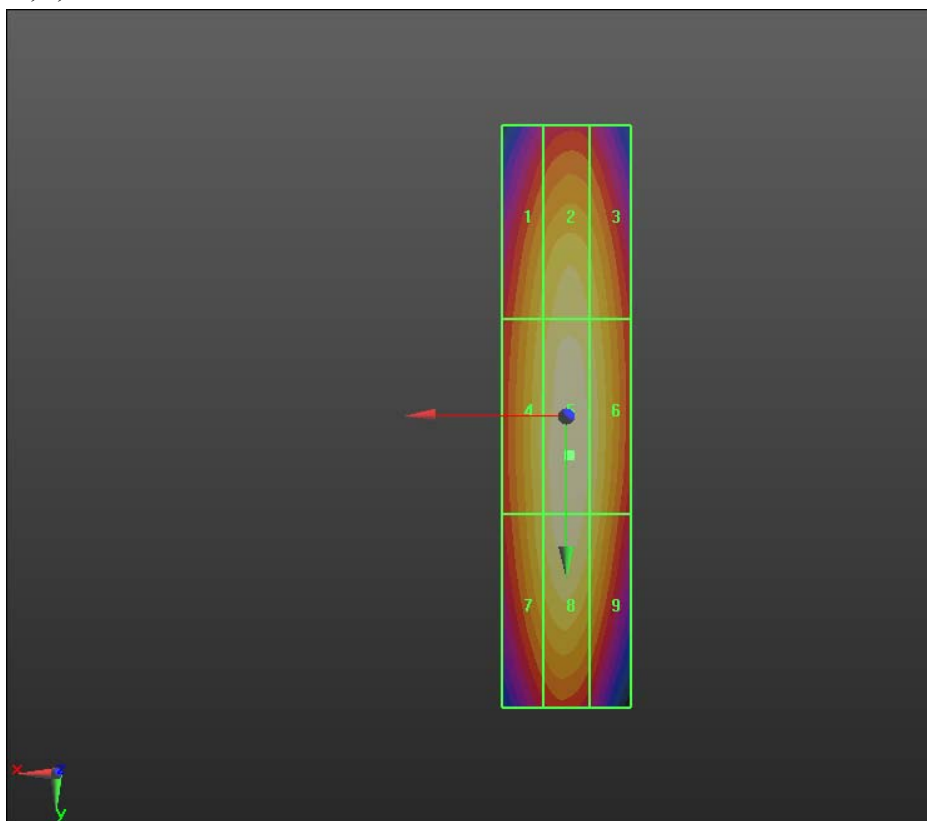
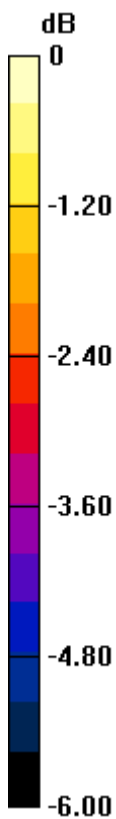
Grid 1 0.429 M4	Grid 2 0.450 M4	Grid 3 0.439 M4
Grid 4 0.449 M4	Grid 5 0.482 M4	Grid 6 0.458 M4
Grid 7 0.441 M4	Grid 8 0.475 M4	Grid 9 0.448 M4

Cursor:

Total = 0.482 A/m

H Category: M4

Location: -0.5, 6, 4.7 mm



0 dB = 0.480A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 48 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 49 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

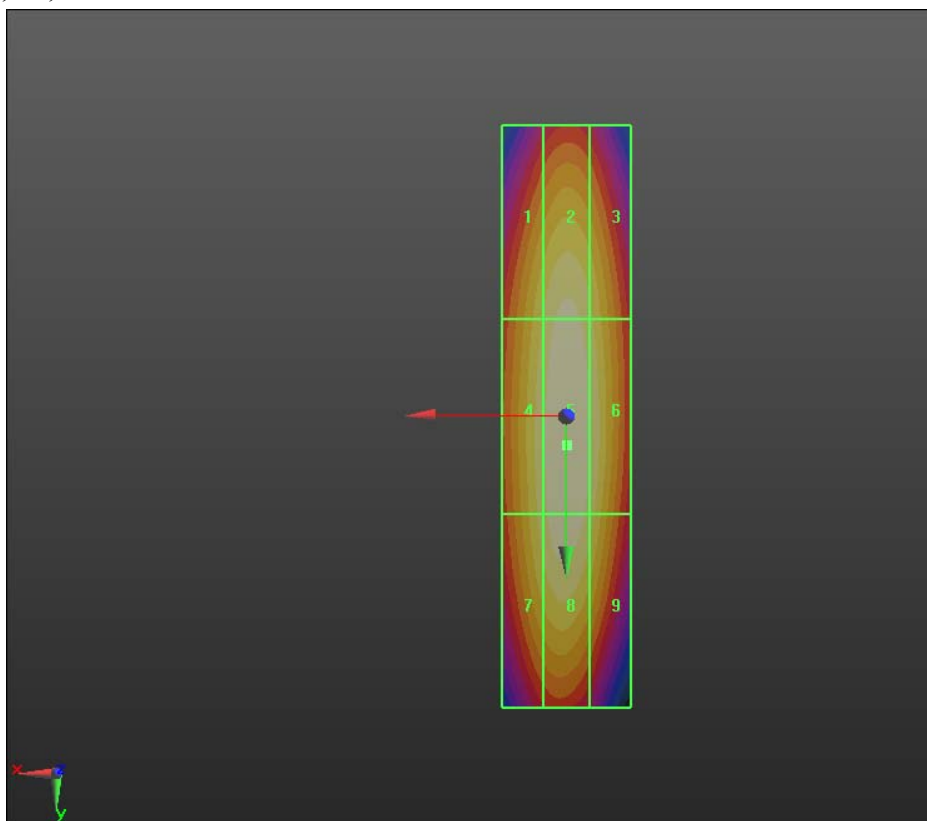
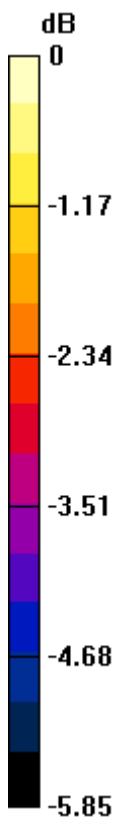
Grid 1 0.276 M4	Grid 2 0.292 M4	Grid 3 0.279 M4
Grid 4 0.286 M4	Grid 5 0.302 M4	Grid 6 0.289 M4
Grid 7 0.283 M4	Grid 8 0.299 M4	Grid 9 0.281 M4

Cursor:

Total = 0.302 A/m

H Category: M4

Location: 0, 4.5, 4.7 mm



0 dB = 0.300A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 50 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 9/6/2011 12:58:12 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_09_06_11

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz

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 = 0.471 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.501 A/m; Power Drift = -0.01 dB

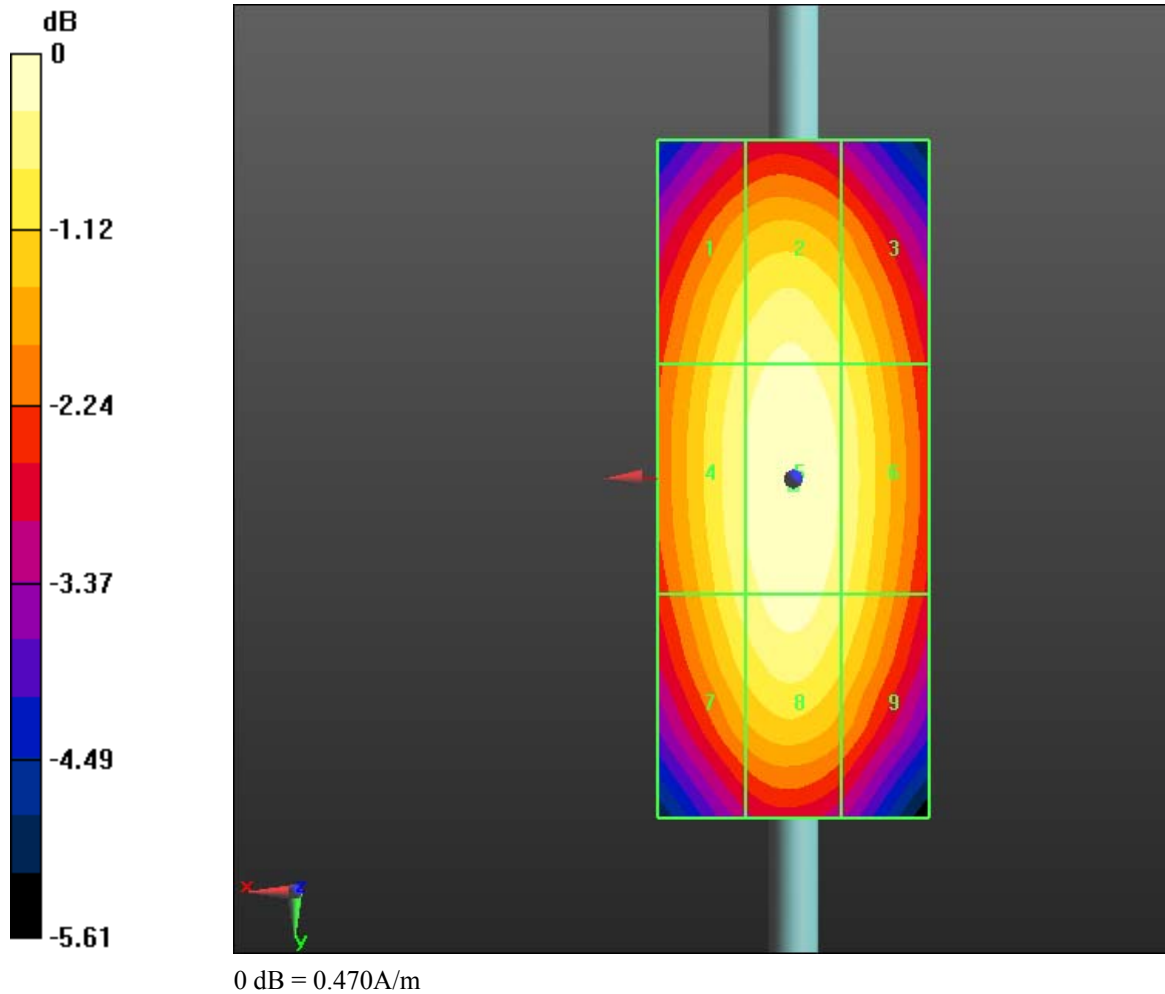
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.440 M2	Grid 2 0.456 M2	Grid 3 0.435 M2
Grid 4 0.452 M2	Grid 5 0.471 M2	Grid 6 0.449 M2
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 51 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.441 M2	0.462 M2	0.437 M2
-----------------	-----------------	-----------------



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 52 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 7/28/2011 4:53:10 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz_07_28_11

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: DASYS (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 = 0.489 A/m; Power Drift = 0.04 dB

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

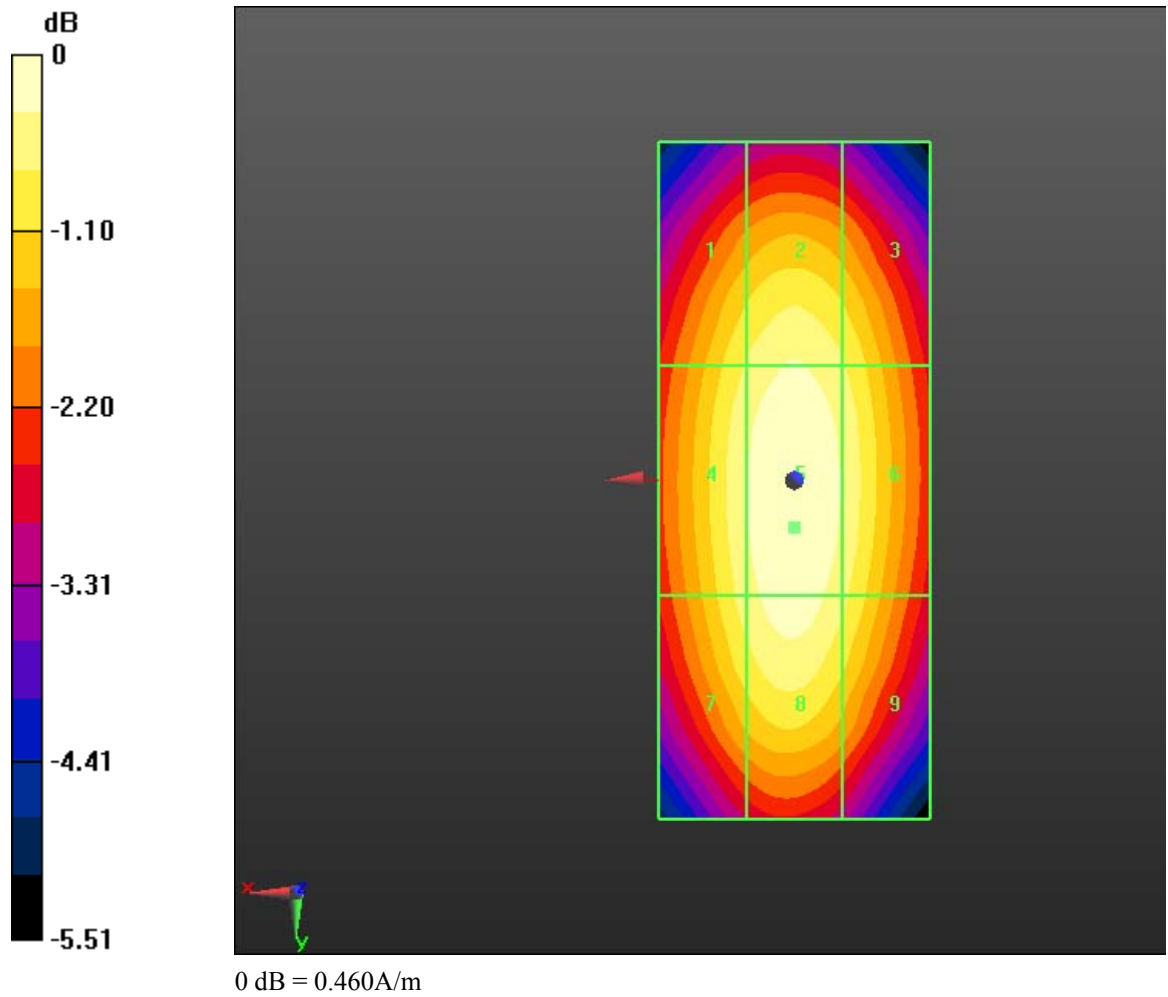
Peak H-field in A/m

Grid 1 0.425 M2	Grid 2 0.442 M2	Grid 3 0.425 M2
Grid 4 0.441 M2	Grid 5 0.461 M2	Grid 6 0.440 M2

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		53 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Grid 7	Grid 8	Grid 9
0.432 M2	0.453 M2	0.428 M2



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 54 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 55 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

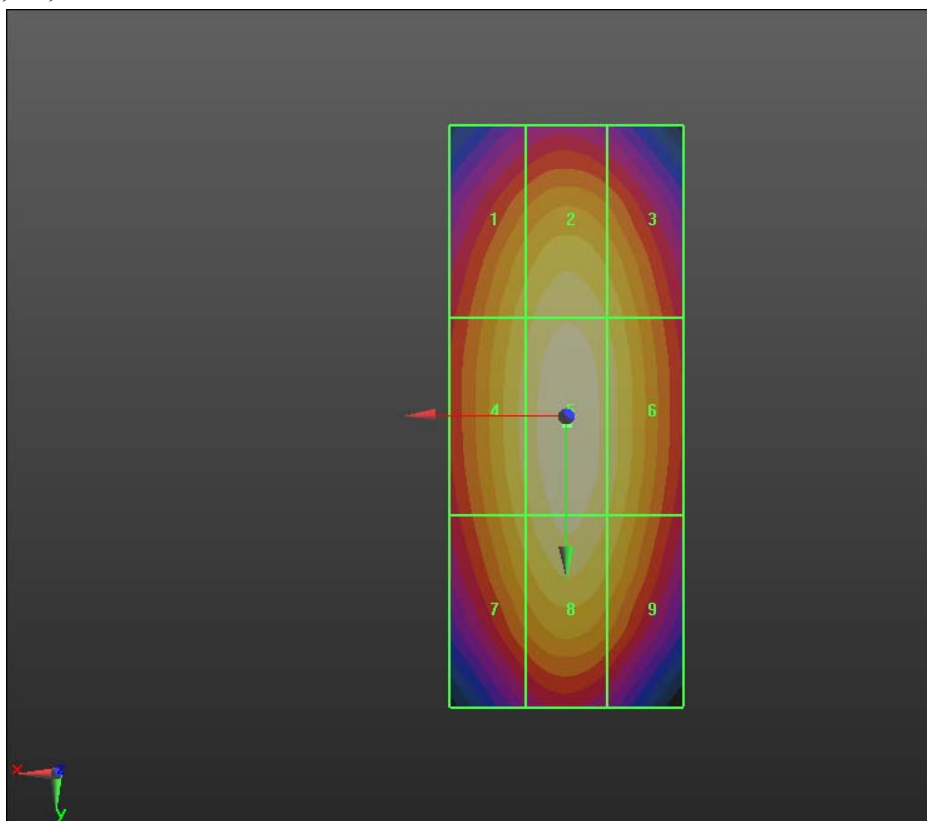
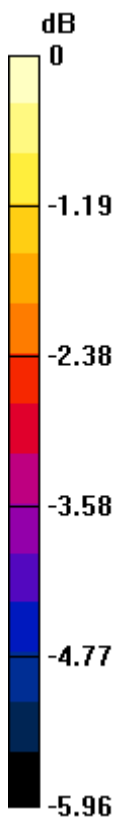
Grid 1 0.090 M4	Grid 2 0.095 M4	Grid 3 0.091 M4
Grid 4 0.093 M4	Grid 5 0.099 M4	Grid 6 0.094 M4
Grid 7 0.090 M4	Grid 8 0.097 M4	Grid 9 0.091 M4

Cursor:

Total = 0.099 A/m

H Category: M4

Location: 0, 0.5, 4.7 mm



0 dB = 0.100A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 56 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 57 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

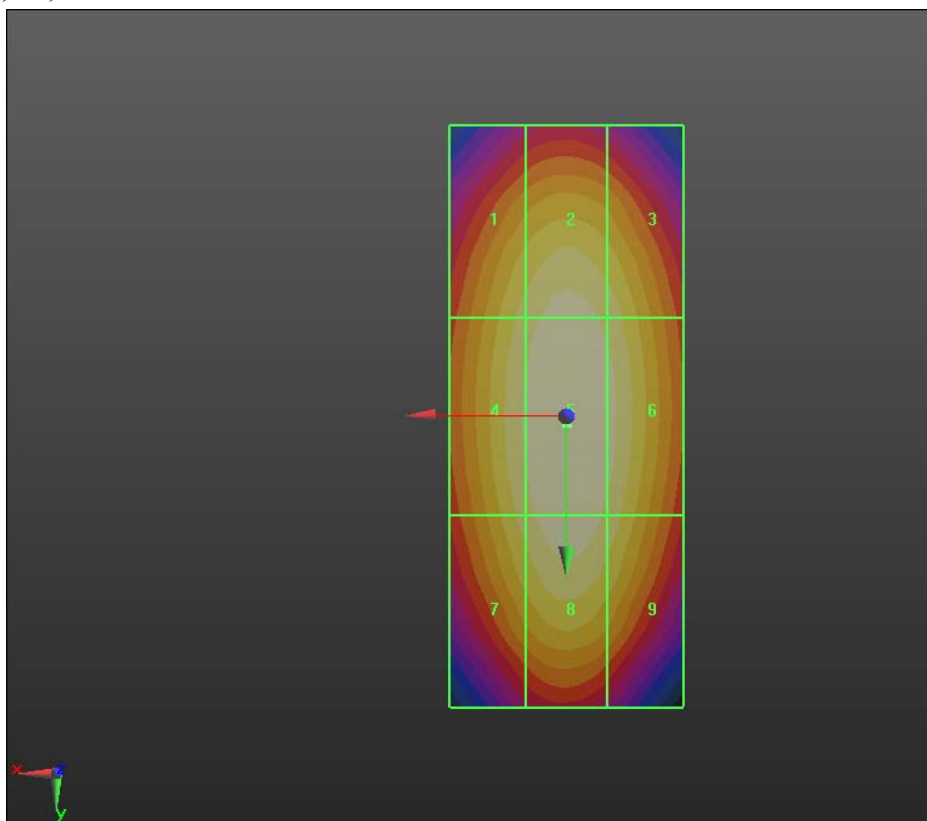
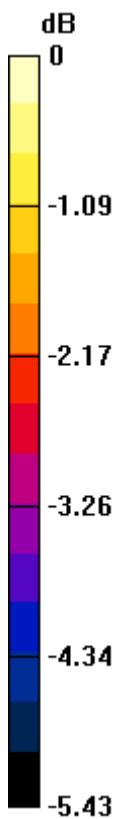
Grid 1 0.263 M3	Grid 2 0.274 M3	Grid 3 0.265 M3
Grid 4 0.271 M3	Grid 5 0.284 M3	Grid 6 0.274 M3
Grid 7 0.263 M3	Grid 8 0.278 M3	Grid 9 0.266 M3

Cursor:

Total = 0.284 A/m

H Category: M3

Location: 0, 0.5, 4.7 mm



0 dB = 0.280A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 58 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

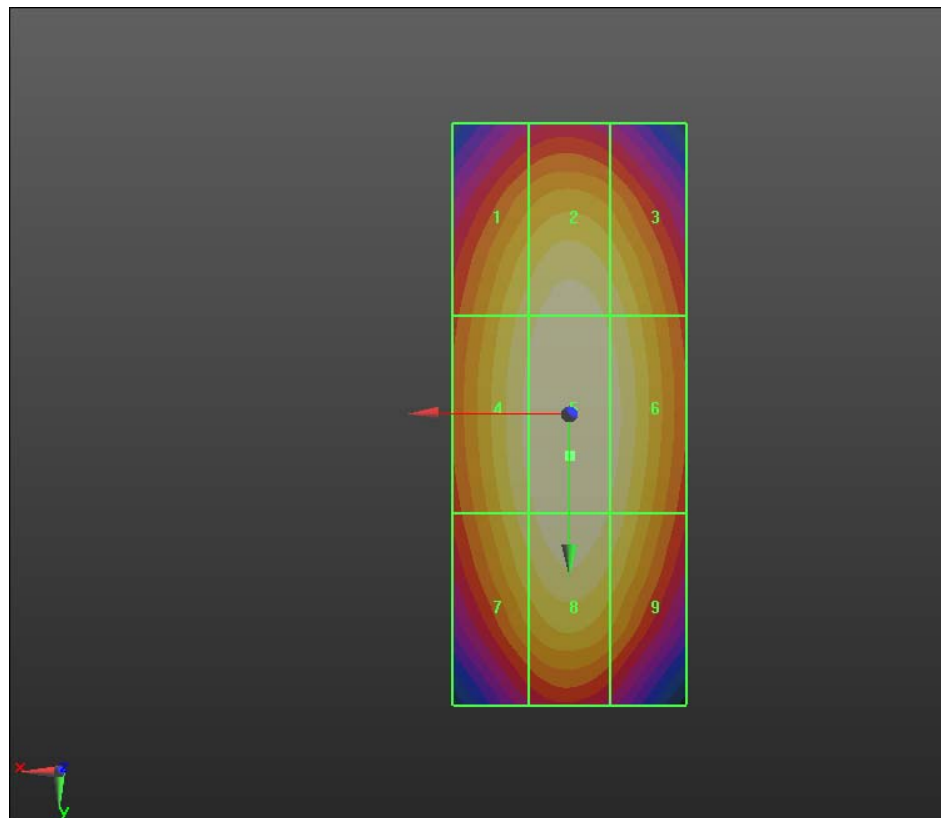
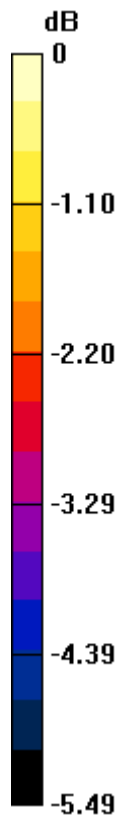
Reference Value = 0.196 A/m; Power Drift = -0.02 dB

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 59 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

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



0 dB = 0.180A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 60 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: $\sigma = 0$ 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 = 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

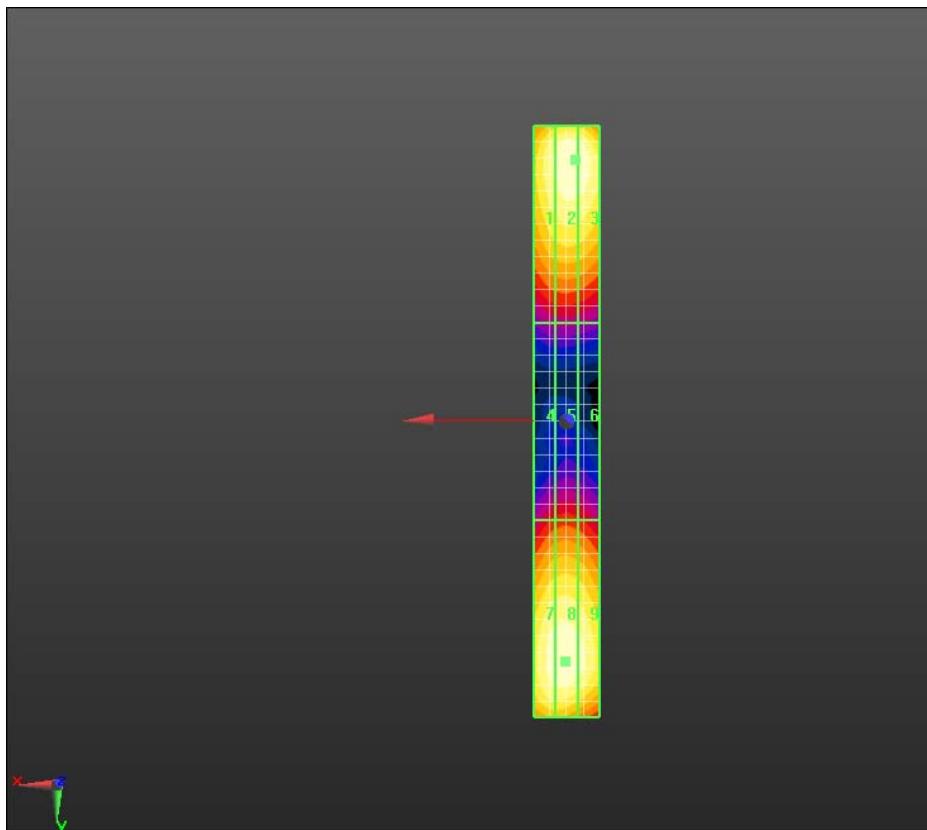
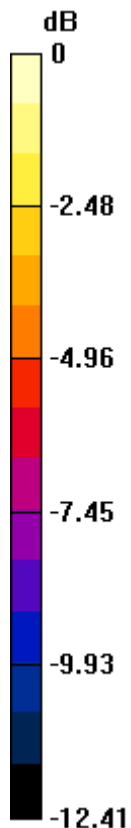
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 61 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Cursor:

Total = 56.944 V/m

E Category: M4

Location: -2.5, -79.5, 4.7 mm



0 dB = 56.940V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 62 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

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: $\sigma = 0$ 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 = 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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 63 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak E-field in V/m

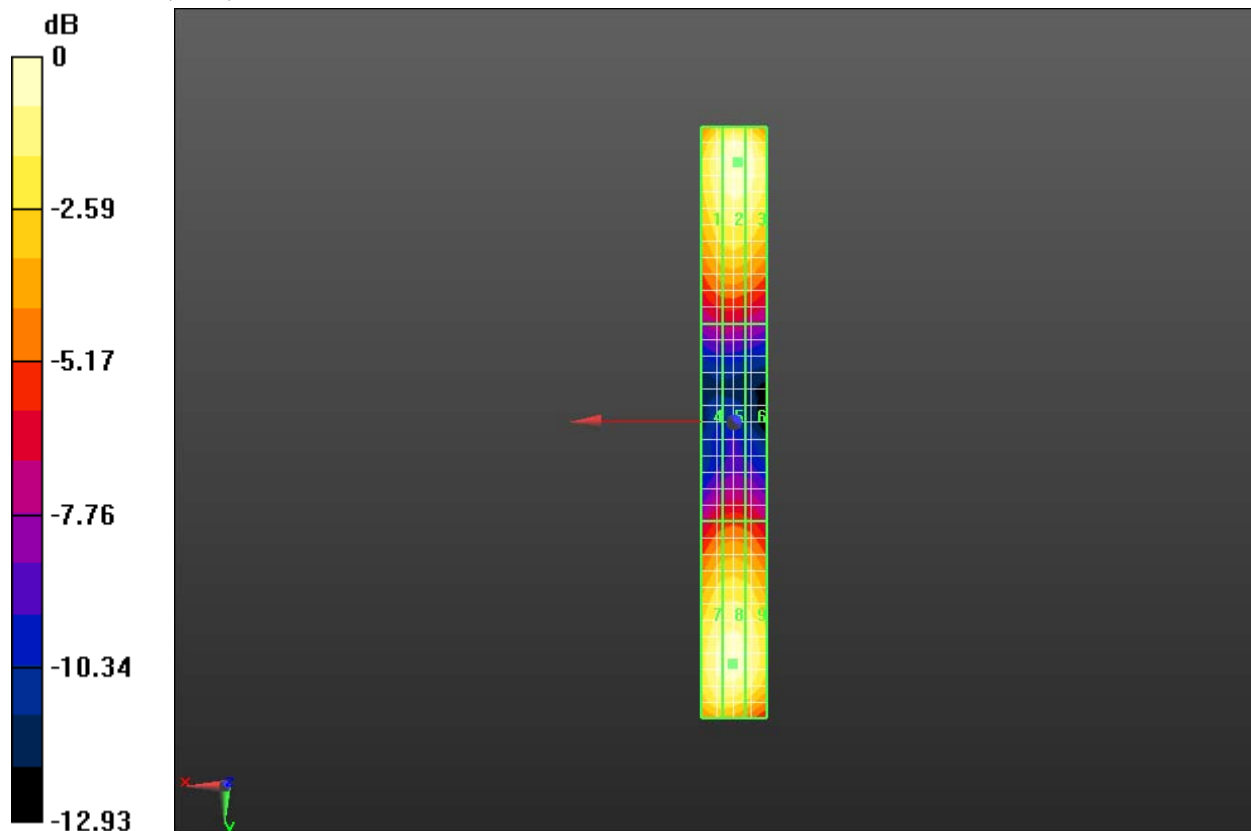
Grid 1 54.388 M4	Grid 2 57.608 M4	Grid 3 56.620 M4
Grid 4 30.355 M4	Grid 5 30.943 M4	Grid 6 30.261 M4
Grid 7 54.334 M4	Grid 8 55.102 M4	Grid 9 5076 M4

Cursor:

Total = 57.608 V/m

E Category: M4

Location: -1, -79, 4.7 mm



0 dB = 57.610V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 64 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: $\sigma = 0$ 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 = 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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 65 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

Peak E-field in V/m

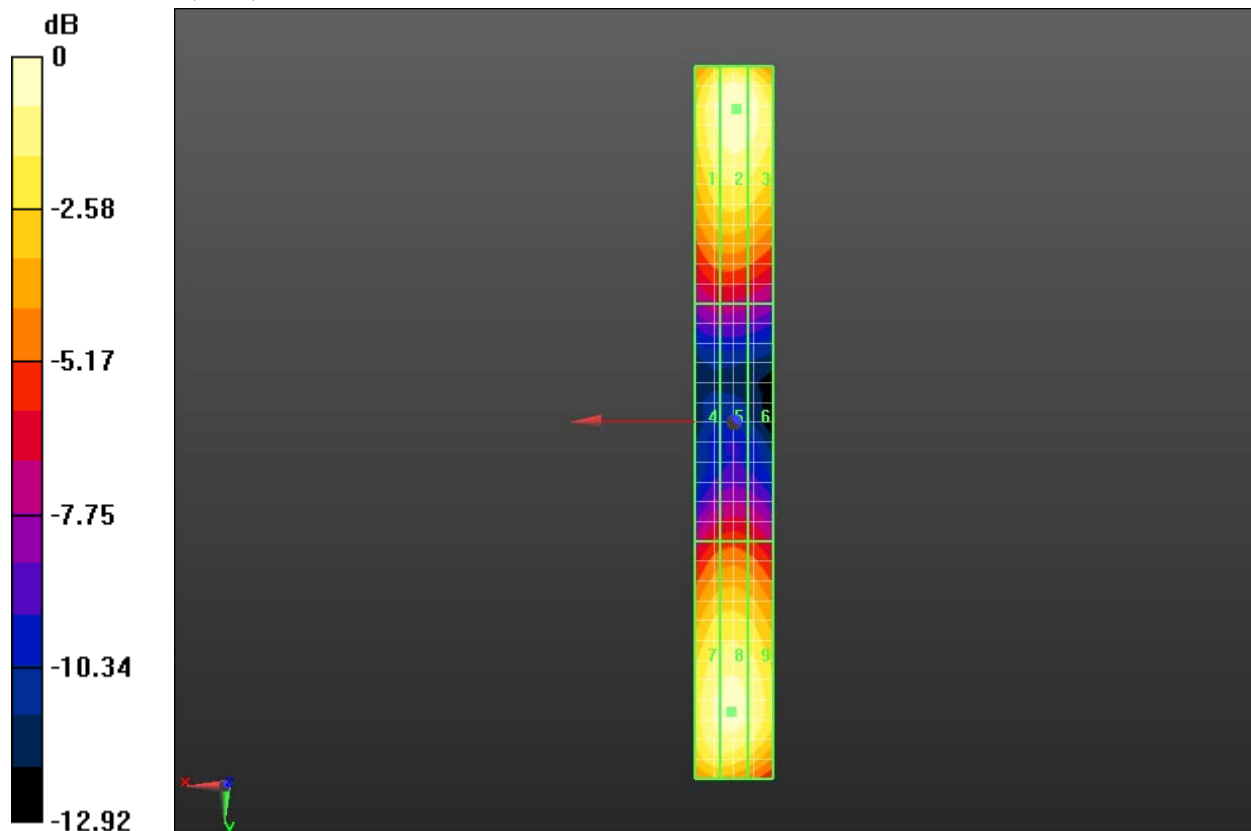
Grid 1 35.158 M4	Grid 2 37.106 M4	Grid 3 36.227 M4
Grid 4 19.445 M4	Grid 5 19.878 M4	Grid 6 19.259 M4
Grid 7 34.812 M4	Grid 8 35.203 M4	Grid 9 34.158 M4

Cursor:

Total = 37.106 V/m

E Category: M4

Location: -0.5, -79, 4.7 mm



0 dB = 37.110V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 66 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 67 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak E-field in V/m

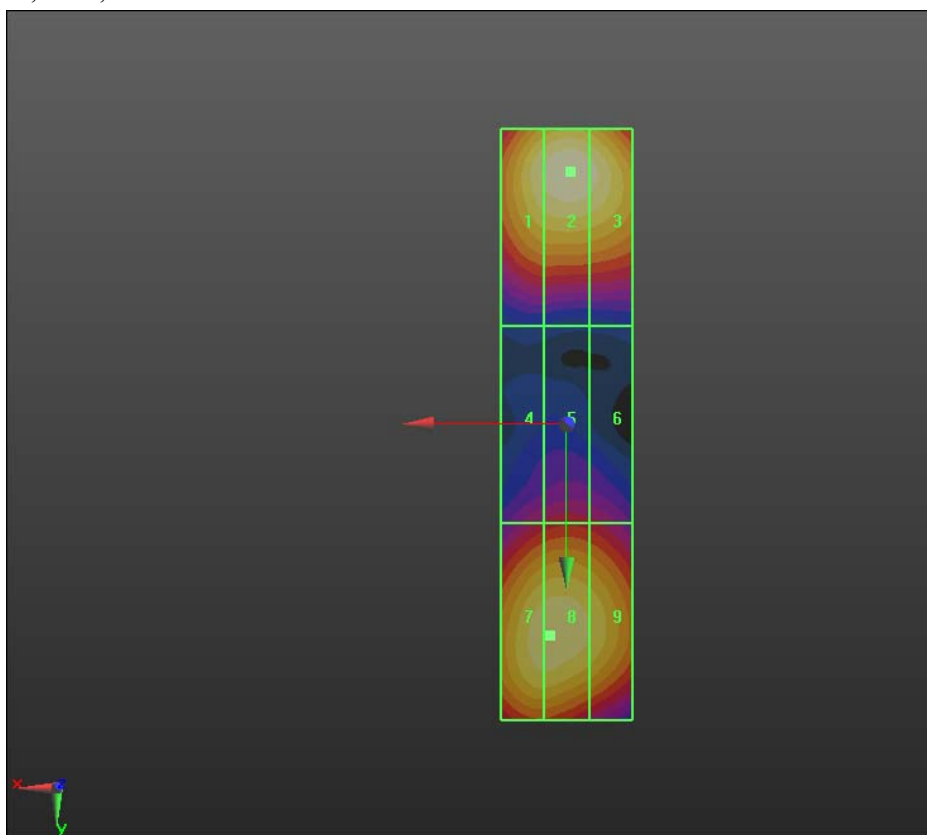
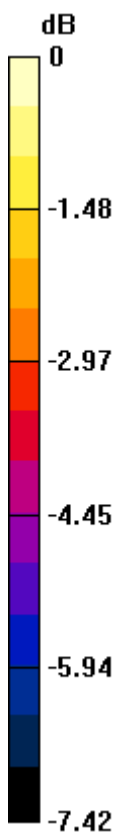
Grid 1 36.706 M4	Grid 2 38.483 M4	Grid 3 37.337 M4
Grid 4 24.878 M4	Grid 5 25.643 M4	Grid 6 25.076 M4
Grid 7 35.871 M4	Grid 8 35.988 M4	Grid 9 34.479 M4

Cursor:

Total = 38.483 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



0 dB = 38.480V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 68 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW

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: $\sigma = 0$ 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 = 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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 69 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak E-field in V/m

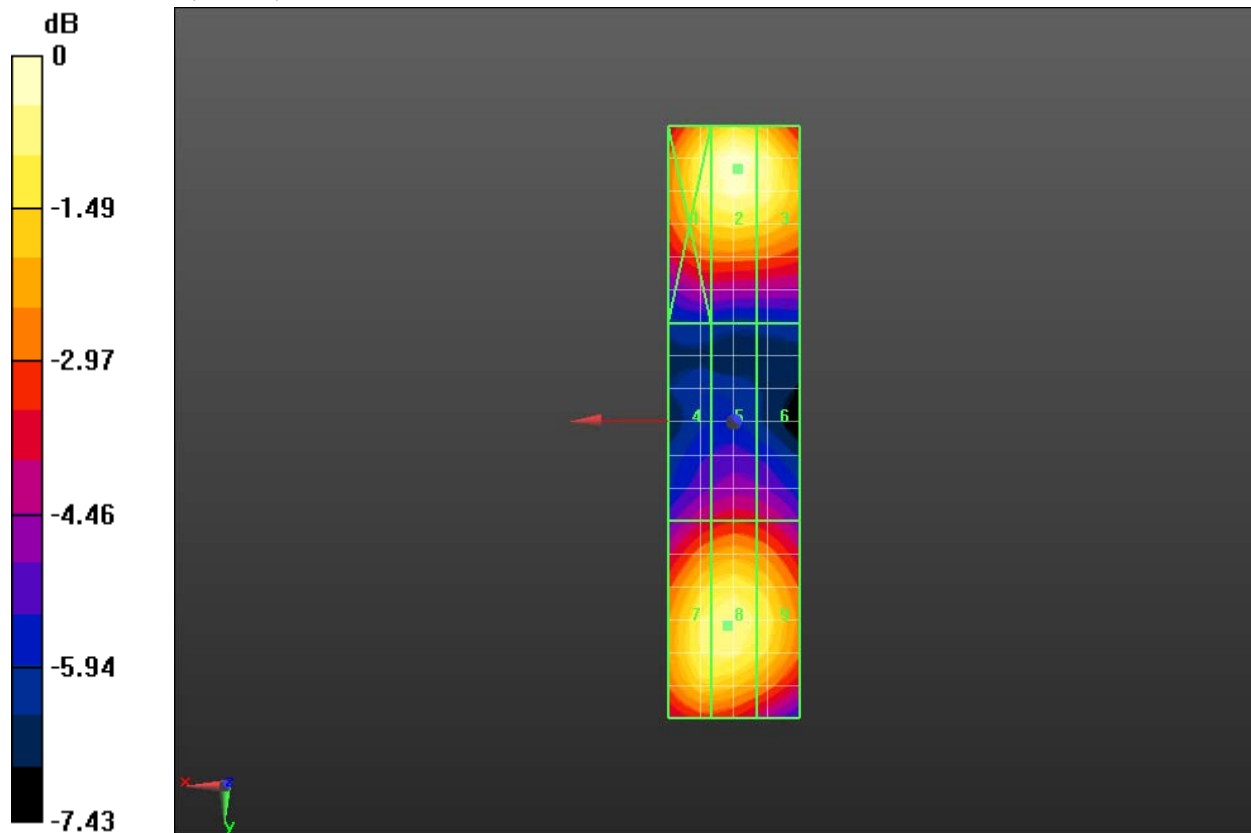
Grid 1 40.897 M4	Grid 2 43.024 M4	Grid 3 41.671 M4
Grid 4 27.919 M4	Grid 5 28.886 M4	Grid 6 28.274 M4
Grid 7 39.759 M4	Grid 8 40.082 M4	Grid 9 38.641 M4

Cursor:

Total = 43.024 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



0 dB = 43.020V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 70 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 71 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak E-field in V/m

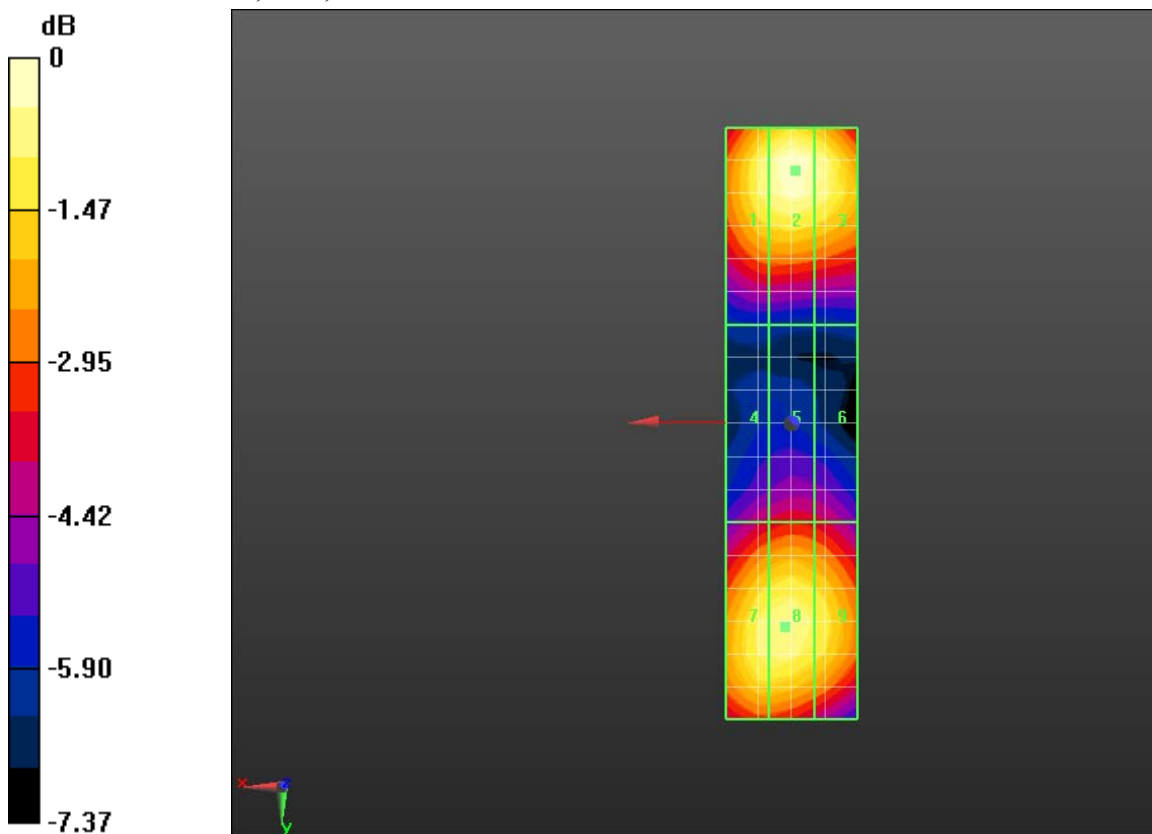
Grid 1 26.151 M4	Grid 2 27.543 M4	Grid 3 26.639 M4
Grid 4 17.904 M4	Grid 5 18.574 M4	Grid 6 18.189 M4
Grid 7 25.506 M4	Grid 8 25.701 M4	Grid 9 24.770 M4

Cursor:

Total = 27.543 V/m

E Category: M4

Location: -0.5, -38.5, 4.7 mm



0 dB = 27.540V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 72 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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

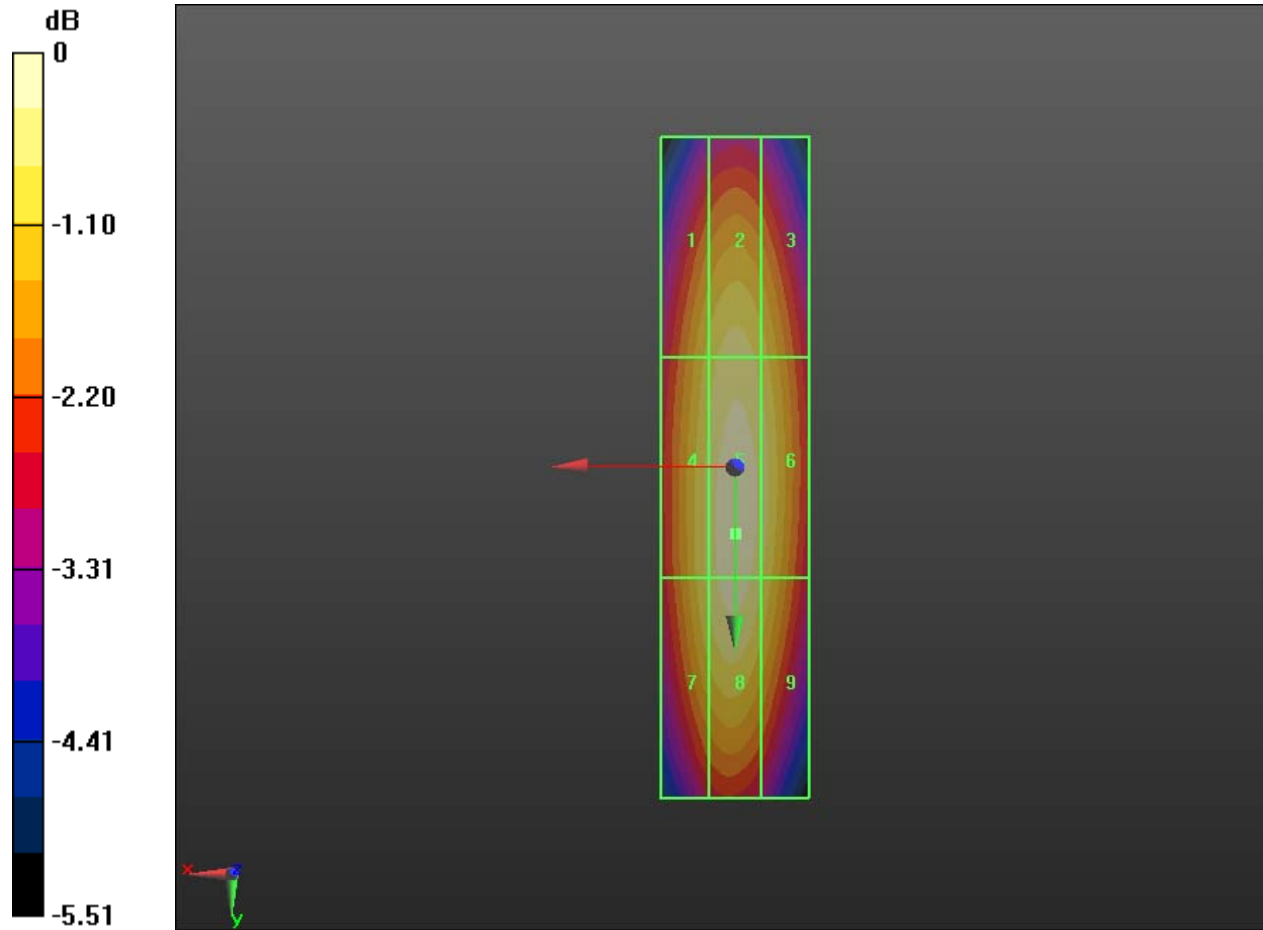
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 73 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 74 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



0 dB = 0.170A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 75 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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: DASYS2, 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 REA71UW		Page 76 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

Grid 1 0.151 M4	Grid 2 0.158 M4	Grid 3 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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 78 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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

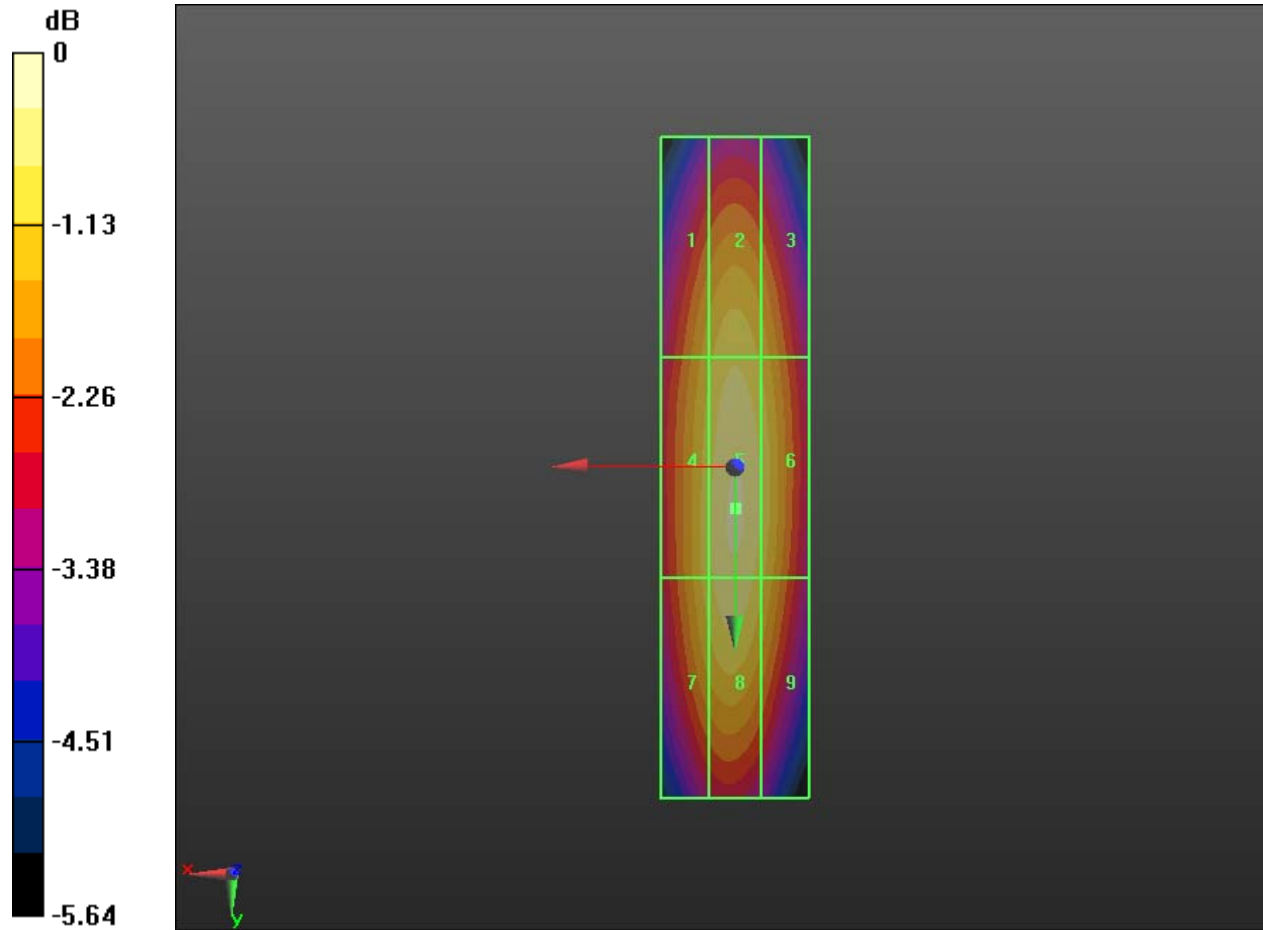
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 79 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Peak H-field in A/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 80 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



0 dB = 0.110A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 81 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

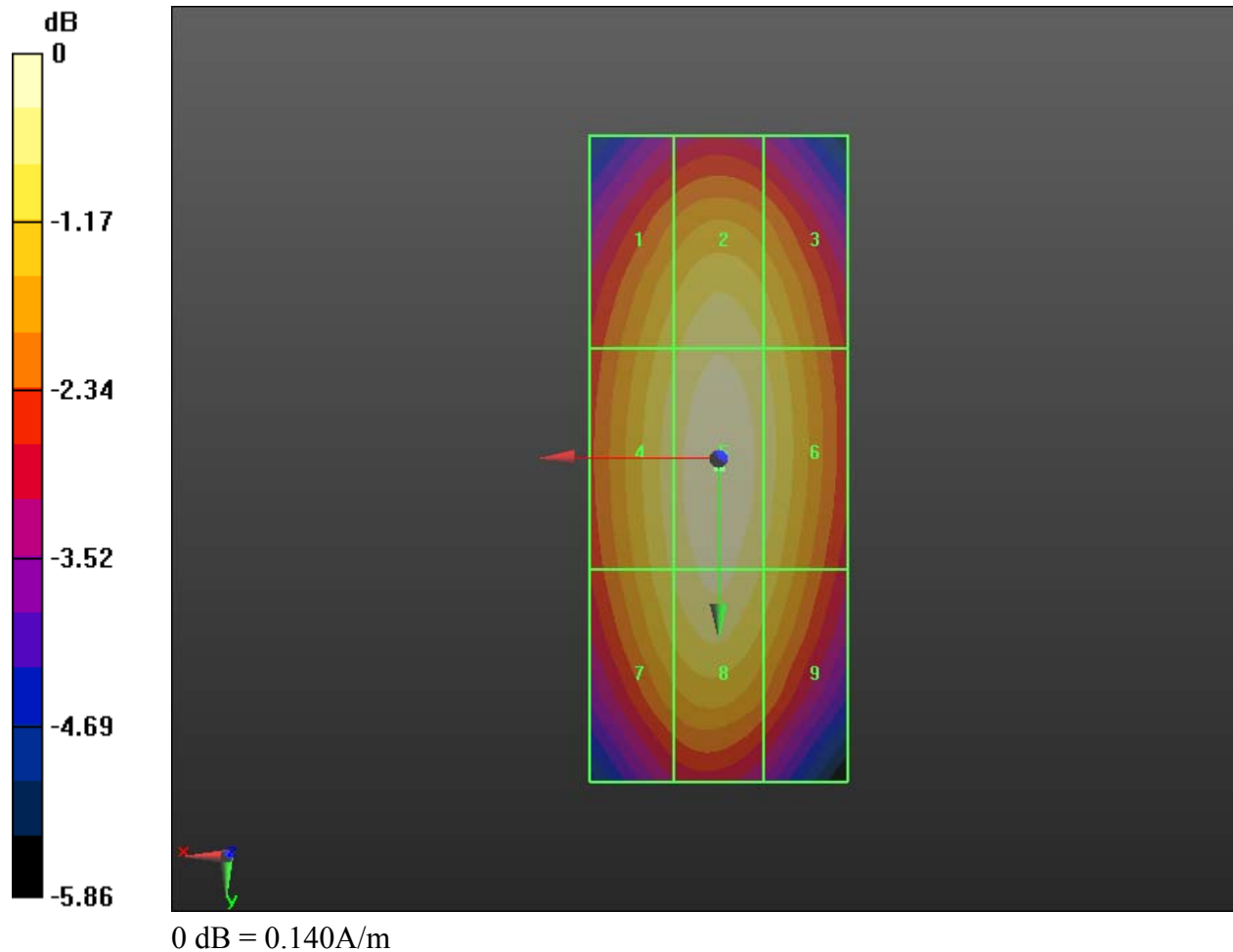
Peak H-field in A/m

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 82 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 83 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 84 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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: DASYS (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

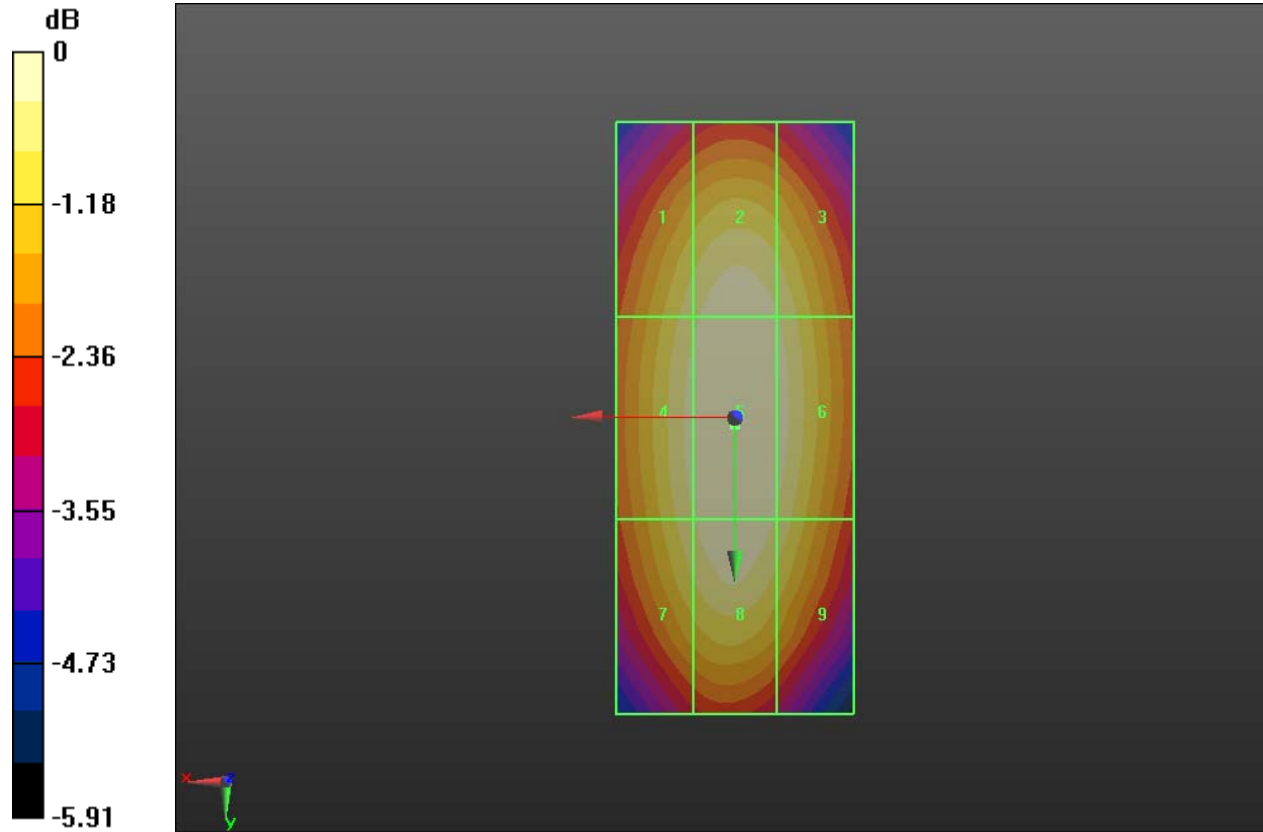
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 85 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 86 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



0 dB = 0.150A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 87 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

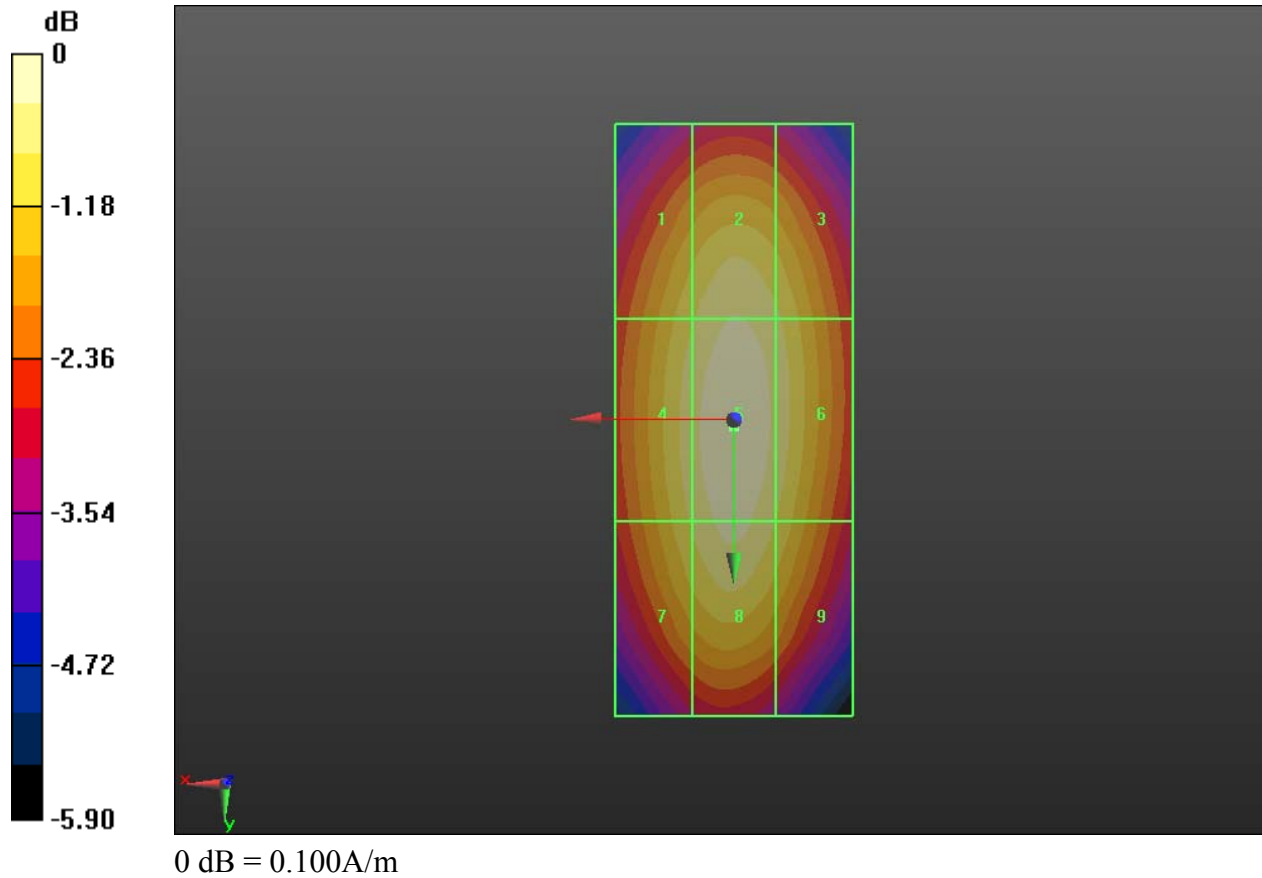
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 88 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

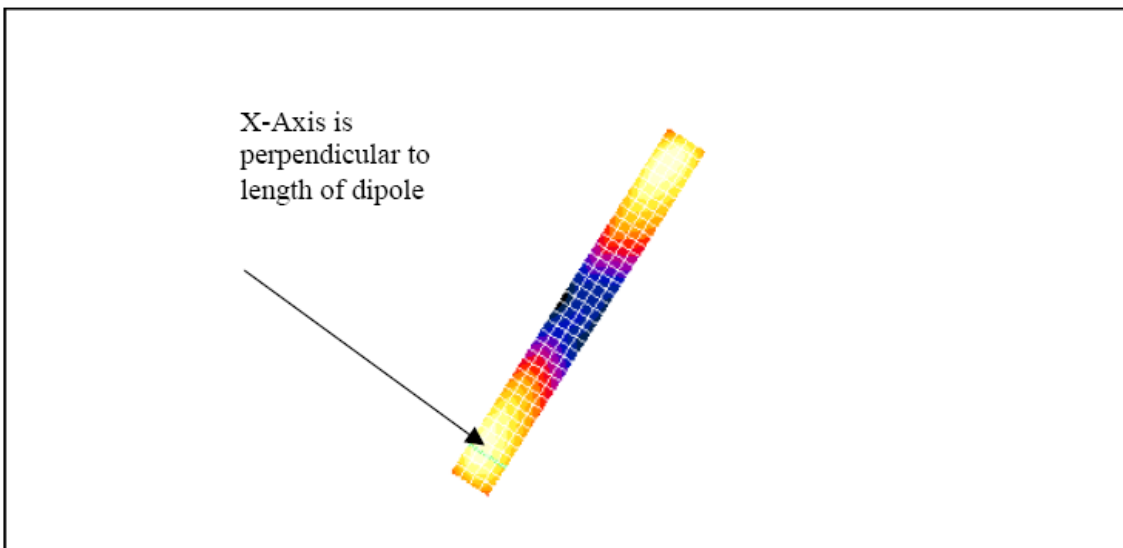
Peak H-field in A/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 89 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 90 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



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 REA71UW		Page 91 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total (measured) = 134.8 V/m

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

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total field (slot averaged) = 131.0 V/m

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

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

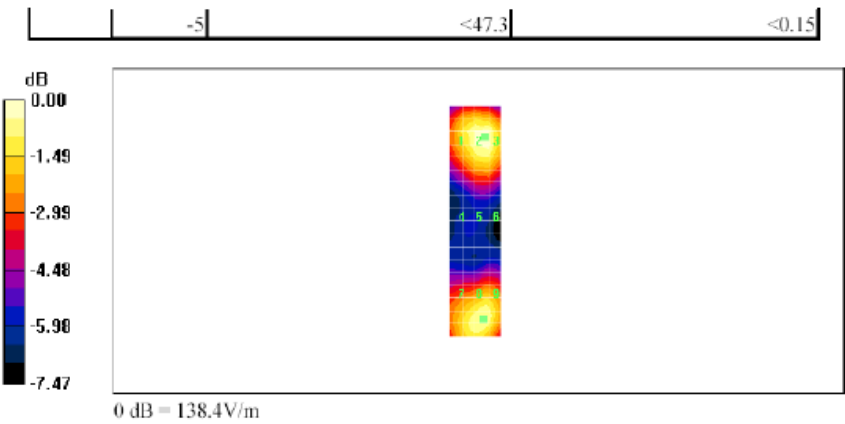
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

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

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

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 92 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 93 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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

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

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

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

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

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

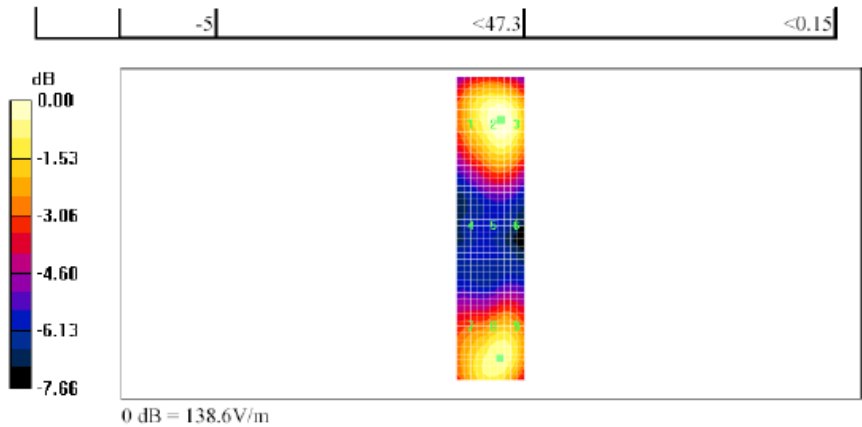
file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 94 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

Page 2 of 2



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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 95 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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)

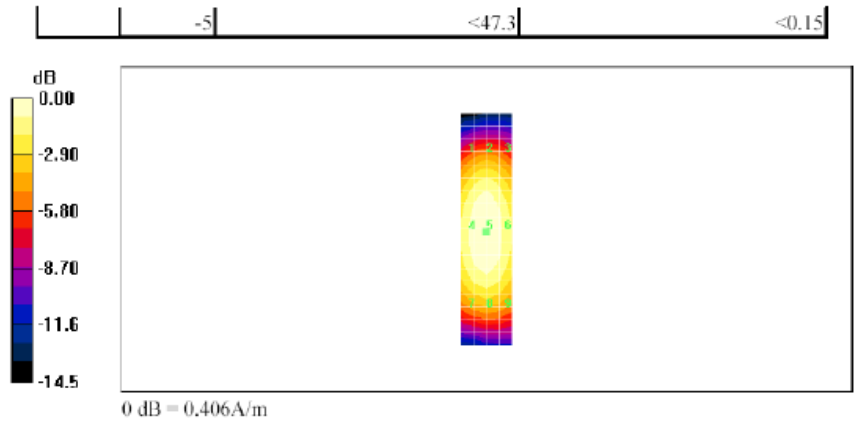
Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 96 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

Page 2 of 2



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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 97 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 0.406 A/m

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

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 0.406 A/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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

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

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

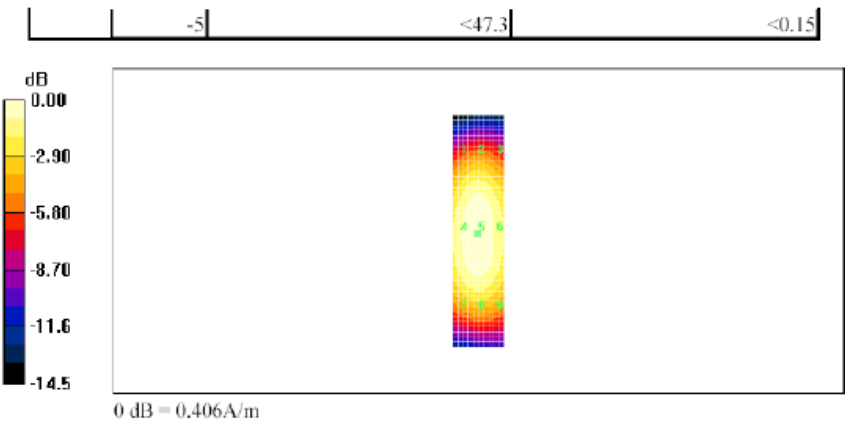
file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

This report shall NOT be reproduced except in full without the written consent of RIM Testing Services
Copyright 2005-2011, RIM Testing Services, a division of Research In Motion Limited

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 98 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

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

Page 2 of 2



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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 99 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

A.3 RF emission field plots

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 100 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 8/9/2011 3:56:05 PM, Date/Time: 8/9/2011 4:00:16 PM, Date/Time: 8/9/2011 4:04:32 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: $\sigma = 0$ 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 = 177.9 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 77.957 V/m; Power Drift = -0.10 dB

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

Peak E-field in V/m

Grid 1 162.1 M3	Grid 2 174.4 M3	Grid 3 171.2 M3
Grid 4	Grid 5	Grid 6

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		101 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

164.4 M3	177.9 M3	174.5 M3
Grid 7	Grid 8	Grid 9
158.0 M3	172.4 M3	169.0 M3

**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 = 203.8 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 87.957 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
181.7 M3	200.8 M3	199.4 M3
Grid 4	Grid 5	Grid 6
183.4 M3	203.8 M3	203.0 M3
Grid 7	Grid 8	Grid 9
174.4 M3	196.6 M3	195.7 M3

**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 = 197.2 V/m

Probe Modulation Factor = 2.940

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 83.666 V/m; Power Drift = 0.20 dB

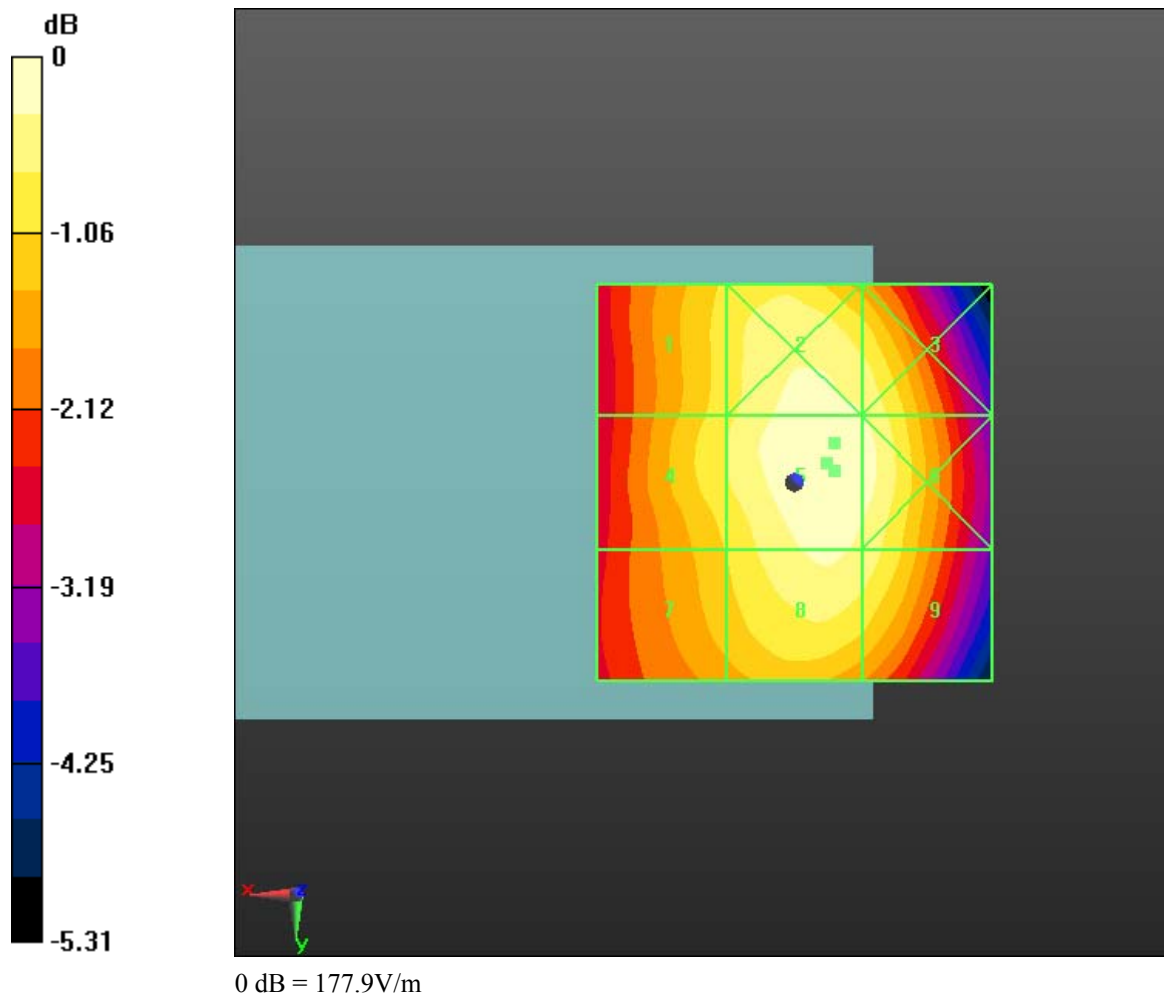
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
175.5 M3	195.6 M3	194.6 M3
Grid 4	Grid 5	Grid 6

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 102 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

173.4 M3	197.2 M3	194.6 M3
Grid 7	Grid 8	Grid 9
165.1 M3	187.3 M3	185.3 M3



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 103 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Date/Time: 9/6/2011 11:50:02 AM, Date/Time: 9/6/2011 11:55:58 AM, Date/Time: 9/6/2011 11:59:46 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

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

Phantom section: RF Section

Measurement Standard: DASYS (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: DASYS2, 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 = 77.490 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.337 V/m; Power Drift = -0.02 dB

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

Peak E-field in V/m

Grid 1 76.947 M3	Grid 2 68.465 M3	Grid 3 52.448 M3
Grid 4	Grid 5	Grid 6

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		104 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

62.130 M3	77.472 M3	77.490 M3
Grid 7	Grid 8	Grid 9
89.204 M2	97.144 M2	94.403 M2

**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 = 73.436 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.994 V/m; Power Drift = -0.0047 dB

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

Peak E-field in V/m

Grid 1 70.284 M3	Grid 2 63.098 M3	Grid 3 54.870 M3
Grid 4 57.159 M3	Grid 5 73.181 M3	Grid 6 73.436 M3
Grid 7 81.394 M3	Grid 8 90.201 M2	Grid 9 88.141 M2

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 = 76.032 V/m

Probe Modulation Factor = 2.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.080 V/m; Power Drift = 0.04 dB

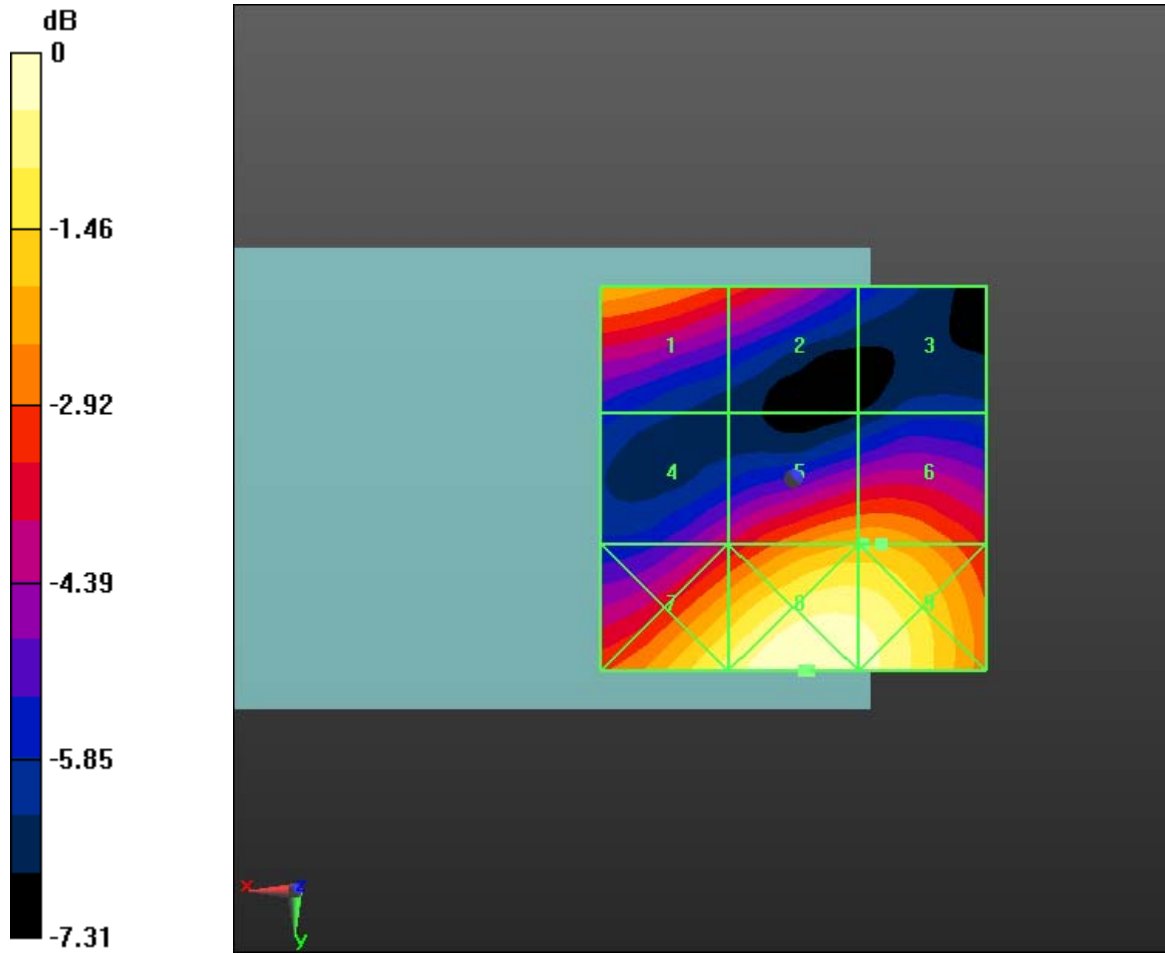
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

Grid 1 73.264 M3	Grid 2 66.811 M3	Grid 3 59.012 M3
----------------------------	----------------------------	----------------------------

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 105 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

Grid 4 60.748 M3	Grid 5 75.796 M3	Grid 6 76.032 M3
Grid 7 85.915 M2	Grid 8 94.247 M2	Grid 9 92.059 M2



0 dB = 97.140V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 106 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

HAC RF_E-Field_UMTS_band_V

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 = 61.622 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 76.050 V/m; Power Drift = -0.04 dB

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

Peak E-field in V/m

Grid 1 55.162 M4	Grid 2 60.683 M4	Grid 3 60.063 M4
Grid 4 55.681 M4	Grid 5 61.622 M4	Grid 6 60.933 M4
Grid 7 53.601 M4	Grid 8 59.470 M4	Grid 9 58.867 M4

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 = 71.929 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 87.609 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 63.292 M4	Grid 2 70.889 M4	Grid 3 70.459 M4
Grid 4 63.819 M4	Grid 5 71.929 M4	Grid 6 71.579 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 107 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

Grid 7 61.187 M4	Grid 8 69.695 M4	Grid 9 69.272 M4
----------------------------	----------------------------	----------------------------

**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 = 78.870 V/m

Probe Modulation Factor = 1.010

Device Reference Point: 0, 0, -6.3 mm

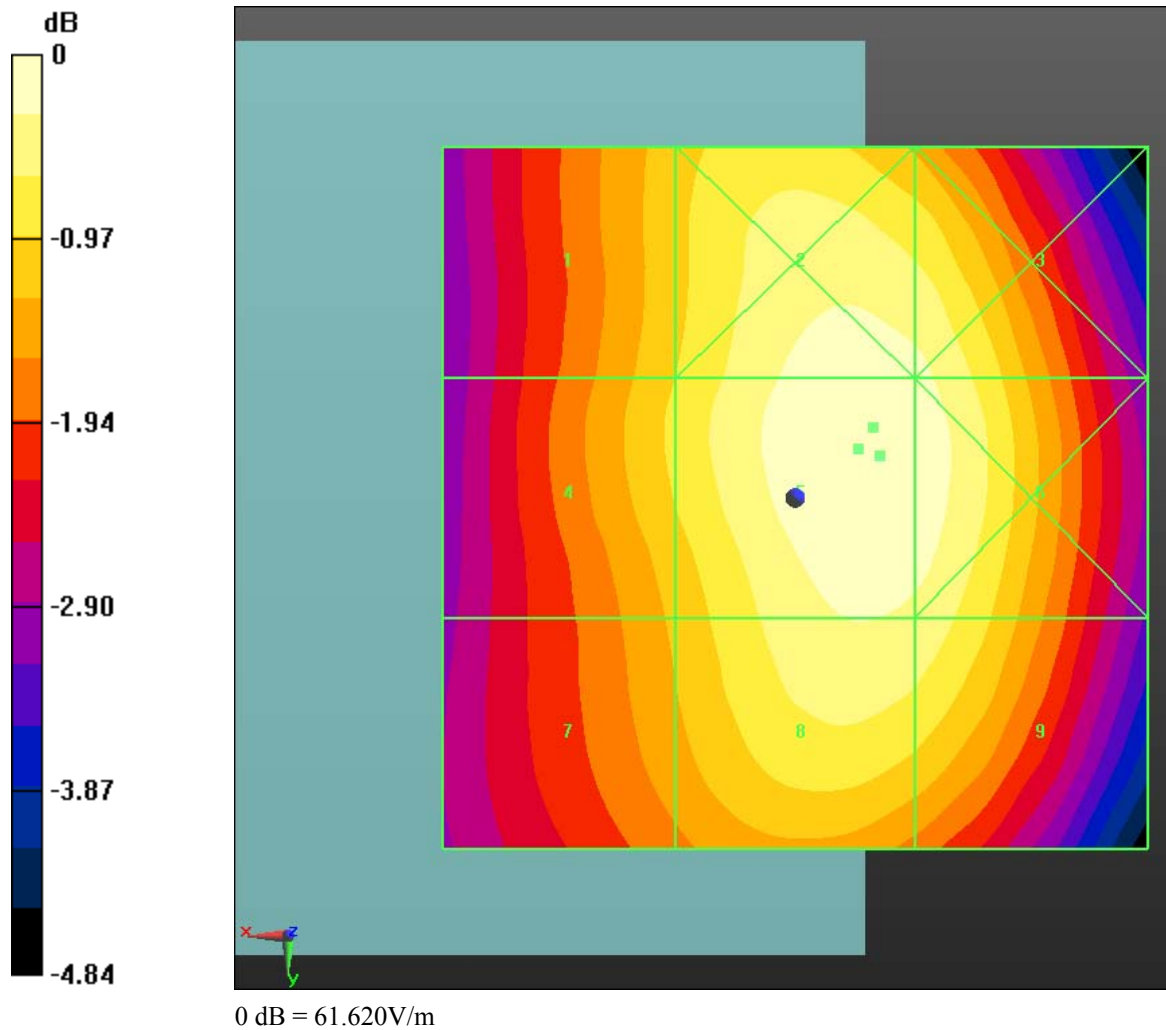
Reference Value = 94.988 V/m; Power Drift = 0.10 dB

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

Peak E-field in V/m

Grid 1 70.236 M4	Grid 2 78.109 M4	Grid 3 77.581 M4
Grid 4 69.926 M4	Grid 5 78.870 M4	Grid 6 78.283 M4
Grid 7 65.560 M4	Grid 8 74.794 M4	Grid 9 74.265 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 108 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	



SEMCAD X Version 14.4.4 (2829)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 109 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

HAC RF_E-Field_UMTS_band_II

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 = 44.399 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.062 V/m; Power Drift = -0.0031 dB

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

Peak E-field in V/m

Grid 1 36.041 M4	Grid 2 29.349 M4	Grid 3 30.228 M4
Grid 4 31.747 M4	Grid 5 44.399 M4	Grid 6 44.399 M4
Grid 7 43.691 M4	Grid 8 49.885 M4	Grid 9 49.247 M4

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 = 41.618 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.159 V/m; Power Drift = -0.11 dB

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

Peak E-field in V/m

Grid 1 34.860 M4	Grid 2 28.809 M4	Grid 3 28.462 M4
Grid 4 29.055 M4	Grid 5 41.618 M4	Grid 6 41.622 M4
Grid 7	Grid 8	Grid 9

	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			110 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	

40.478 M4	47.144 M4	46.735 M4
------------------	------------------	------------------

**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 = 42.770 V/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

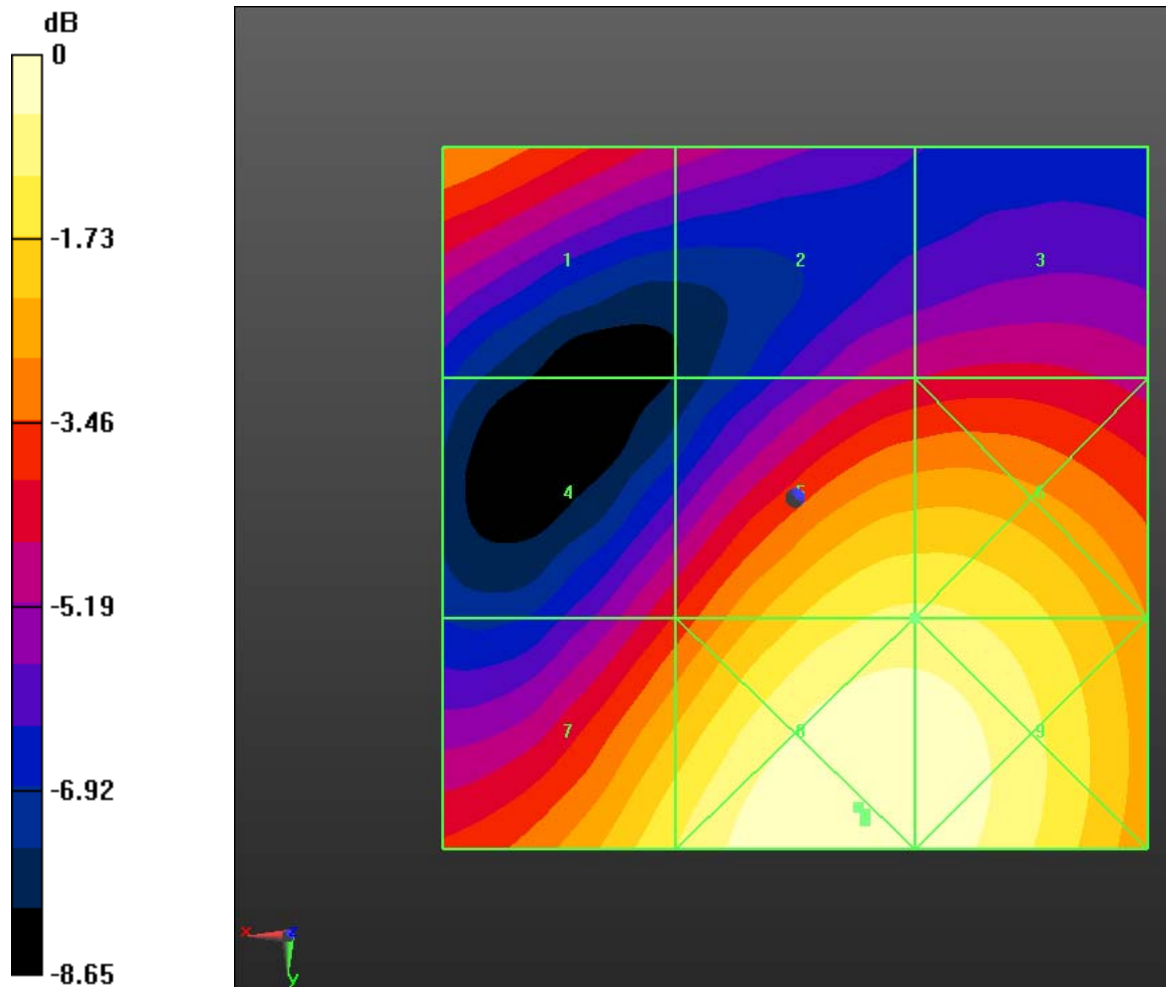
Reference Value = 32.346 V/m; Power Drift = 0.03 dB

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

Peak E-field in V/m

Grid 1 37.600 M4	Grid 2 32.468 M4	Grid 3 28.931 M4
Grid 4 29.710 M4	Grid 5 42.770 M4	Grid 6 42.774 M4
Grid 7 42.435 M4	Grid 8 49.228 M4	Grid 9 48.719 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 111 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



0 dB = 49.890V/m

SEMCAD X Version 14.4.4 (2829)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 112 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

HAC RF_H-Field_GSM850

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 = 0.429 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.078 A/m; Power Drift = 0.22 dB

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

Peak H-field in A/m

Grid 1 0.353 M4	Grid 2 0.256 M4	Grid 3 0.147 M4
Grid 4 0.382 M4	Grid 5 0.277 M4	Grid 6 0.176 M4
Grid 7 0.429 M4	Grid 8 0.305 M4	Grid 9 0.193 M4

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 = 0.458 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.088 A/m; Power Drift = -0.05 dB

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

Peak H-field in A/m

Grid 1 0.404 M4	Grid 2 0.291 M4	Grid 3 0.166 M4
Grid 4 0.427 M4	Grid 5 0.310 M4	Grid 6 0.188 M4
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 113 (123)
	Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.458 M3	0.334 M4	0.211 M4
-----------------	-----------------	-----------------

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 = 0.526 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

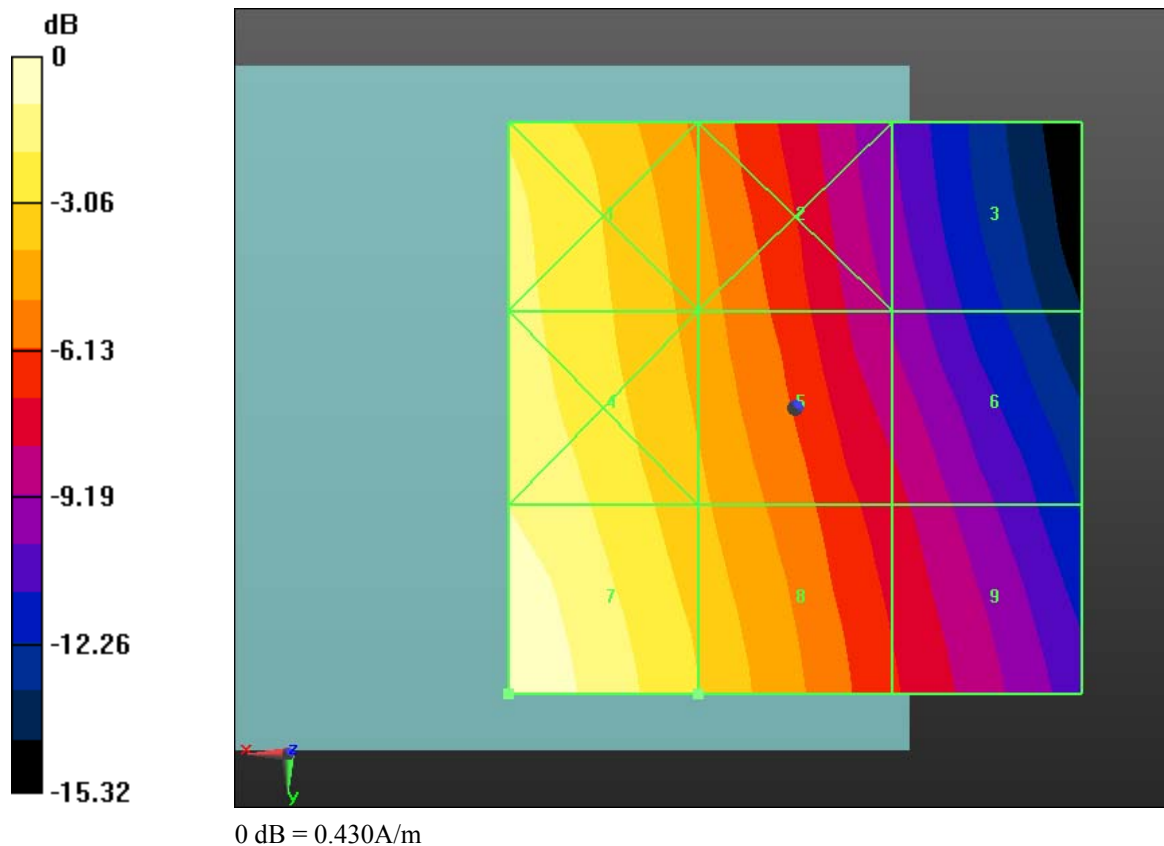
Reference Value = 0.109 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1 0.452 M3	Grid 2 0.345 M4	Grid 3 0.216 M4
Grid 4 0.475 M3	Grid 5 0.368 M4	Grid 6 0.246 M4
Grid 7 0.526 M3	Grid 8 0.399 M4	Grid 9 0.265 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 114 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	



SEMCAID X Version 14.4.4 (2829)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 115 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6ARE70UW

HAC RF_H-Field_GSM1900

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 = 0.235 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.089 A/m; Power Drift = -0.13 dB

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

Peak H-field in A/m

Grid 1 0.212 M3	Grid 2 0.235 M3	Grid 3 0.228 M3
Grid 4 0.235 M3	Grid 5 0.235 M3	Grid 6 0.228 M3
Grid 7 0.334 M2	Grid 8 0.263 M2	Grid 9 0.192 M3

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 = 0.234 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.090 A/m; Power Drift = 0.05 dB

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

Peak H-field in A/m

Grid 1 0.220 M3	Grid 2 0.234 M3	Grid 3 0.229 M3
Grid 4 0.238 M3	Grid 5 0.234 M3	Grid 6 0.228 M3
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 116 (123)
	Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.320 M2	0.253 M2	0.196 M3
-----------------	-----------------	-----------------

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 = 0.229 A/m

Probe Modulation Factor = 2.870

Device Reference Point: 0, 0, -6.3 mm

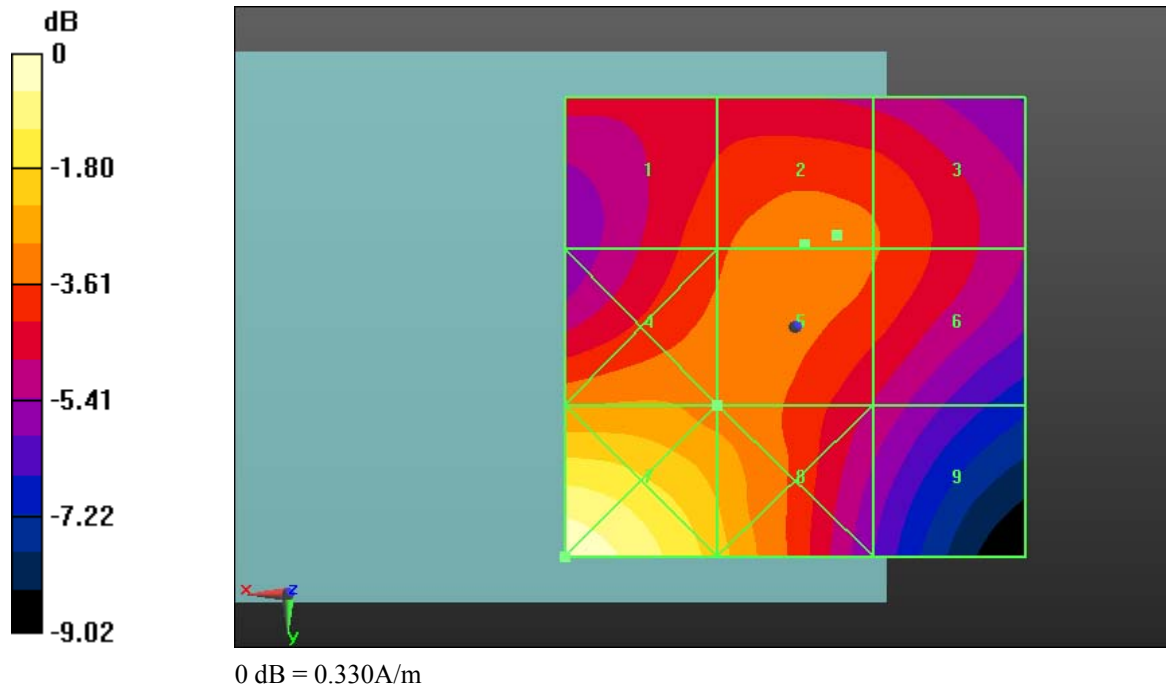
Reference Value = 0.090 A/m; Power Drift = -0.03 dB

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

Peak H-field in A/m

Grid 1 0.215 M3	Grid 2 0.227 M3	Grid 3 0.220 M3
Grid 4 0.236 M3	Grid 5 0.229 M3	Grid 6 0.219 M3
Grid 7 0.325 M2	Grid 8 0.259 M2	Grid 9 0.189 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 117 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW	



SEM CAD X Version 14.4.4 (2829)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 118 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

HAC RF_H-Field_UMTS_band V

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 = 0.145 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.078 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

Grid 1 0.123 M4	Grid 2 0.089 M4	Grid 3 0.052 M4
Grid 4 0.131 M4	Grid 5 0.096 M4	Grid 6 0.061 M4
Grid 7 0.145 M4	Grid 8 0.105 M4	Grid 9 0.068 M4

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 = 0.164 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.091 A/m; Power Drift = 0.06 dB

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

Peak H-field in A/m

Grid 1 0.143 M4	Grid 2 0.104 M4	Grid 3 0.061 M4
Grid 4 0.151 M4	Grid 5 0.109 M4	Grid 6 0.069 M4
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 119 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.164 M4	0.119 M4	0.075 M4
-----------------	-----------------	-----------------

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 = 0.192 A/m

Probe Modulation Factor = 0.990

Device Reference Point: 0, 0, -6.3 mm

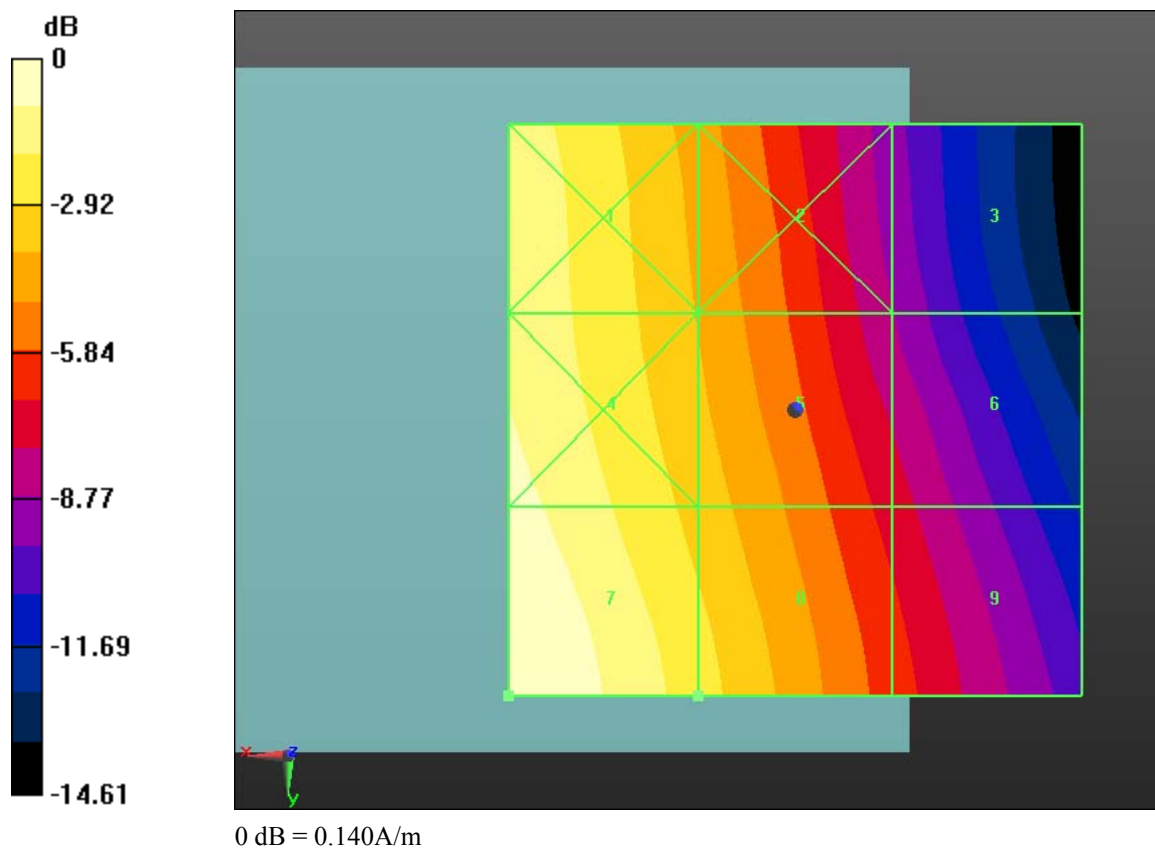
Reference Value = 0.112 A/m; Power Drift = -0.03 dB

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

Peak H-field in A/m

Grid 1 0.163 M4	Grid 2 0.122 M4	Grid 3 0.076 M4
Grid 4 0.175 M4	Grid 5 0.133 M4	Grid 6 0.089 M4
Grid 7 0.192 M4	Grid 8 0.145 M4	Grid 9 0.097 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 120 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



SEMCAID X Version 14.4.4 (2829)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 121 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

HAC RF_H-Field_UMTS_band II

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 = 0.124 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.116 A/m; Power Drift = 0.0021 dB

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

Peak H-field in A/m

Grid 1 0.116 M4	Grid 2 0.119 M4	Grid 3 0.114 M4
Grid 4 0.132 M4	Grid 5 0.124 M4	Grid 6 0.114 M4
Grid 7 0.171 M4	Grid 8 0.136 M4	Grid 9 0.097 M4

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 = 0.120 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.116 A/m; Power Drift = 0.21 dB

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

Peak H-field in A/m

Grid 1 0.113 M4	Grid 2 0.120 M4	Grid 3 0.116 M4
Grid 4 0.123 M4	Grid 5 0.120 M4	Grid 6 0.116 M4
Grid 7	Grid 8	Grid 9

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW			Page 122 (123)
	Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW

0.159 M4	0.129 M4	0.099 M4
-----------------	-----------------	-----------------

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 = 0.127 A/m

Probe Modulation Factor = 1.120

Device Reference Point: 0, 0, -6.3 mm

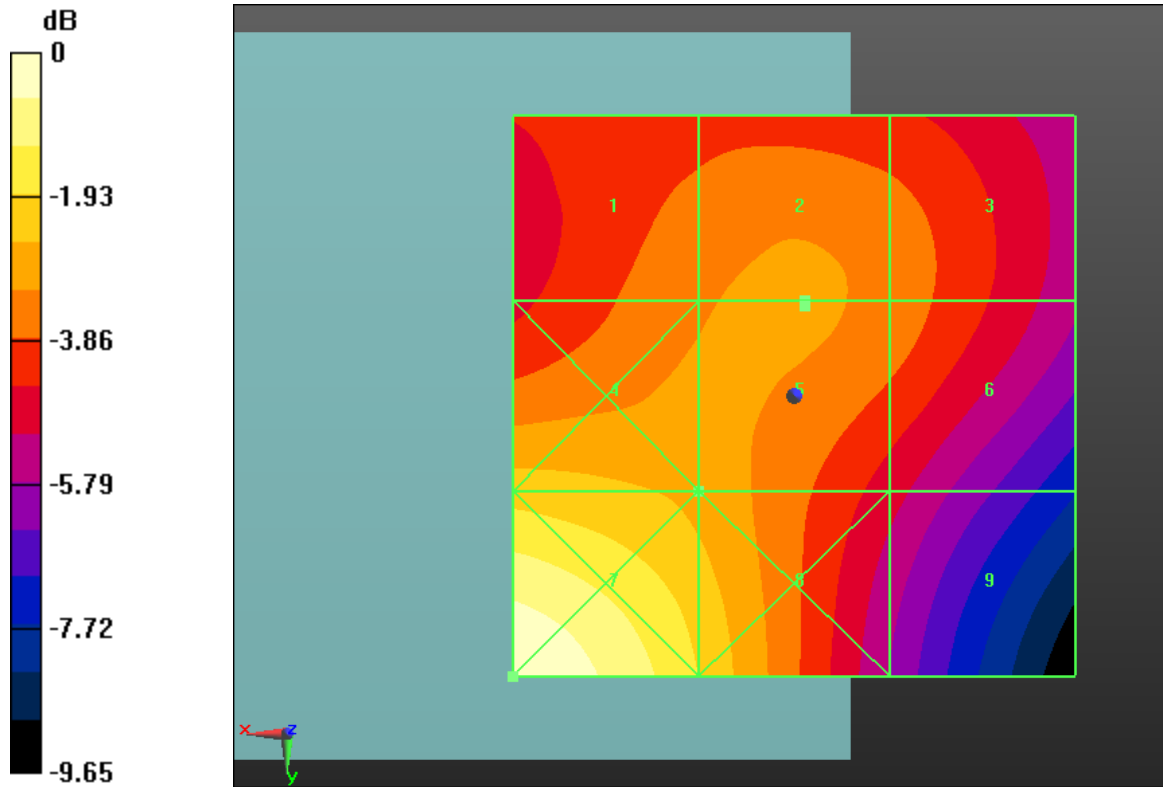
Reference Value = 0.125 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1 0.119 M4	Grid 2 0.127 M4	Grid 3 0.122 M4
Grid 4 0.127 M4	Grid 5 0.127 M4	Grid 6 0.122 M4
Grid 7 0.167 M4	Grid 8 0.136 M4	Grid 9 0.103 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model REA71UW		Page 123 (123)
Author Data Daoud Attayi	Dates of Test Feb 28, Mar. 22-23, Apr. 05, Aug. 09-31, 2011	Report No RTS-5316-1109-55	FCC ID L6AREA70UW



0 dB = 0.170A/m

SEMCAD X Version 14.4.4 (2829)