

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 1 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Annex A: Measurement data and plots

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

Please refer to Annex A.1 of the report number RTS-1689-0908-37 for the plots

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 2 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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 RCM72UW		Page 3 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 10:20:21 AM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 109.7 V/m; Power Drift = -0.032 dB

Maximum value of Total (measured) = 170.9 V/m

E Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1):

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 4 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 171.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

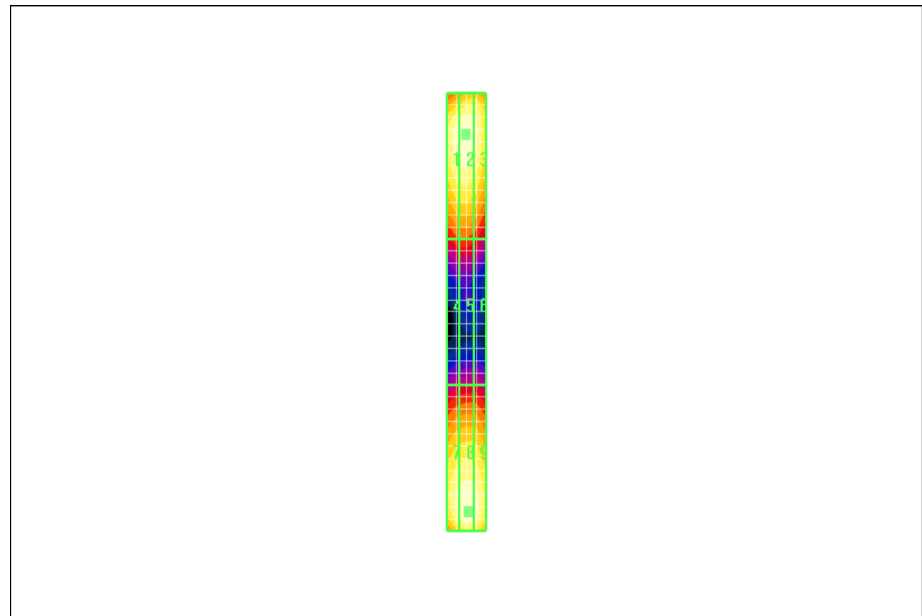
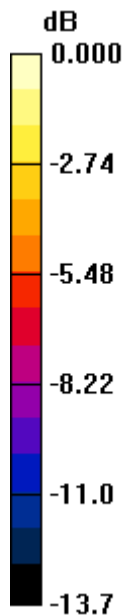
Reference Value = 109.7 V/m; Power Drift = -0.032 dB

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

Peak E-field in V/m

Grid 1 167.8 M4	Grid 2 171.7 M4	Grid 3 164.8 M4
Grid 4 90.9 M4	Grid 5 91.4 M4	Grid 6 87.0 M4
Grid 7 164.1 M4	Grid 8 171.1 M4	Grid 9 168.0 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 5 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 171.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 6 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 9:21:21 AM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 150.7 V/m; Power Drift = 0.035 dB

Maximum value of Total (measured) = 130.5 V/m

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

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 7 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 132.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

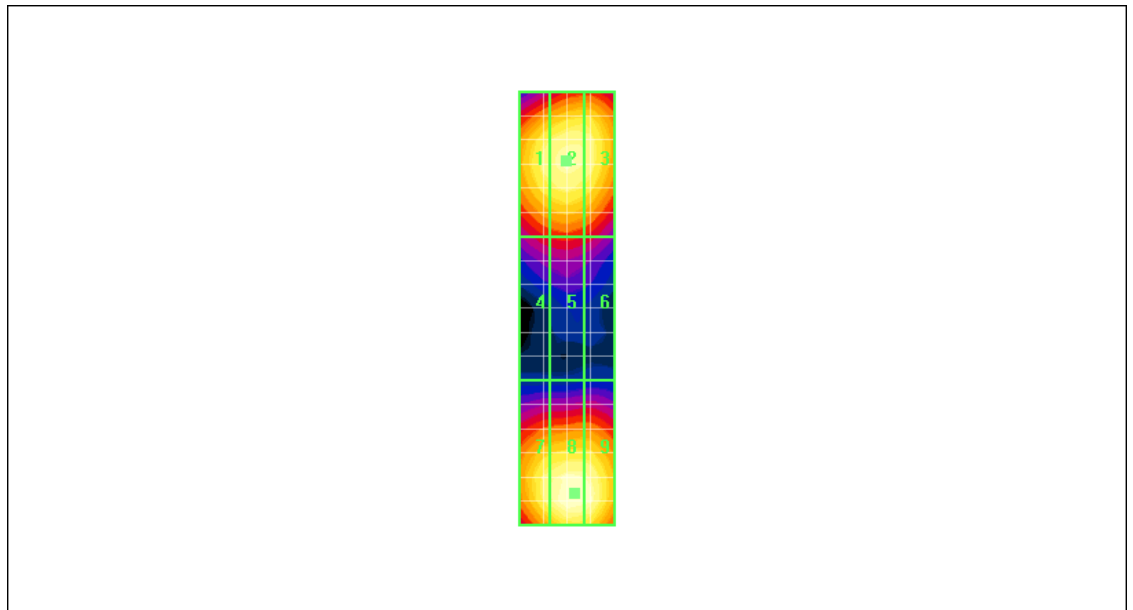
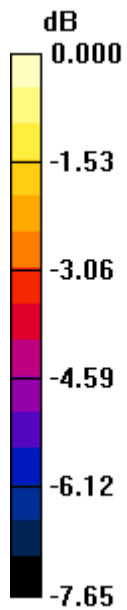
Reference Value = 150.7 V/m; Power Drift = 0.035 dB

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

Peak E-field in V/m

Grid 1 123.9 M2	Grid 2 127.1 M2	Grid 3 125.3 M2
Grid 4 89.4 M3	Grid 5 91.3 M3	Grid 6 88.4 M3
Grid 7 125.5 M2	Grid 8 132.8 M2	Grid 9 131.7 M2

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 8 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 132.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 9 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 10:34:30 AM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (5x13x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.526 A/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 0.490 A/m

H Scan - measurement distance from the probe sensor center to

CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 10 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.491 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

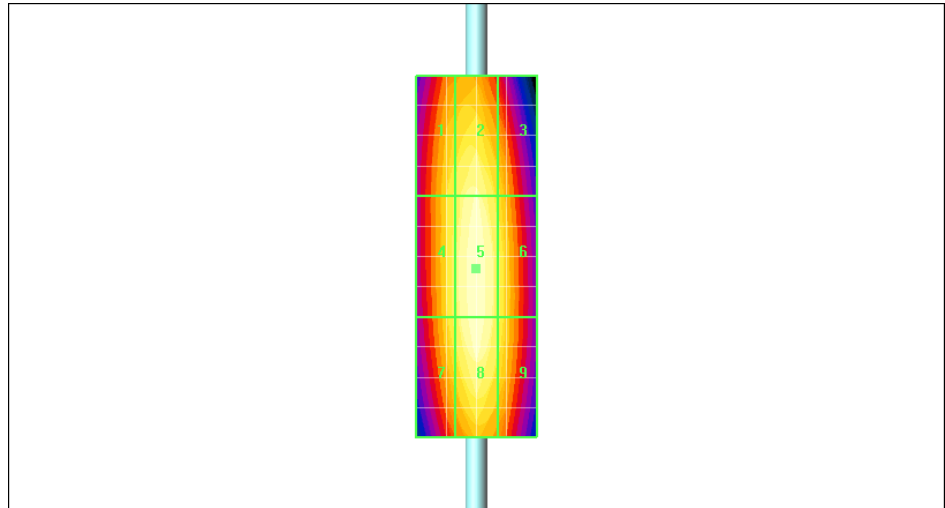
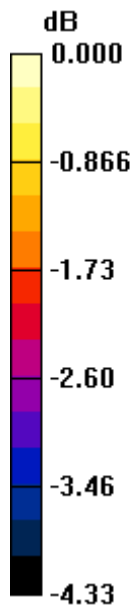
Reference Value = 0.526 A/m; Power Drift = -0.030 dB

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

Peak H-field in A/m

Grid 1 0.464 M4	Grid 2 0.479 M4	Grid 3 0.452 M4
Grid 4 0.469 M4	Grid 5 0.491 M4	Grid 6 0.466 M4
Grid 7 0.466 M4	Grid 8 0.489 M4	Grid 9 0.465 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 11 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.491A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 12 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 8:51:06 AM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1):

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

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.499 A/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 0.467 A/m

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

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 13 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.467 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

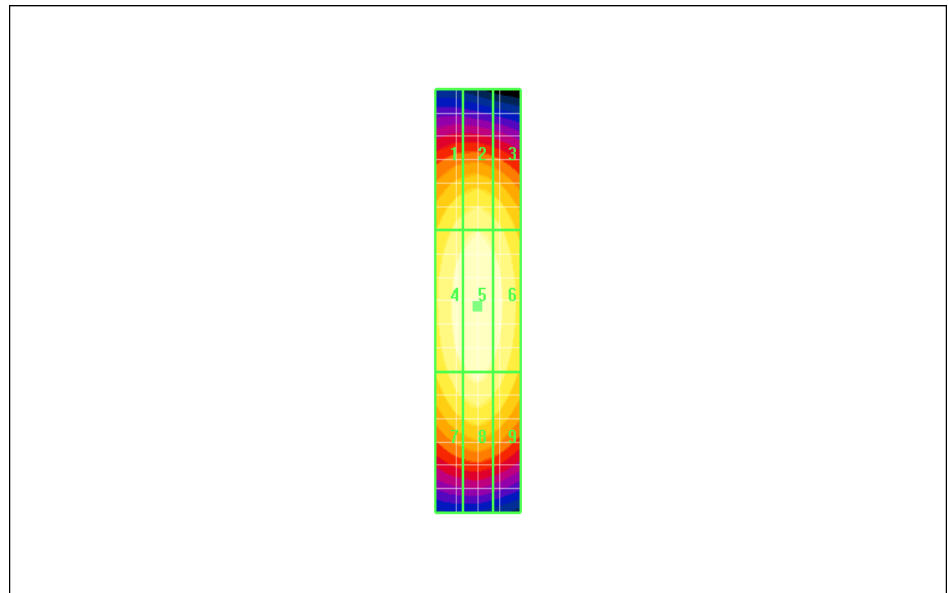
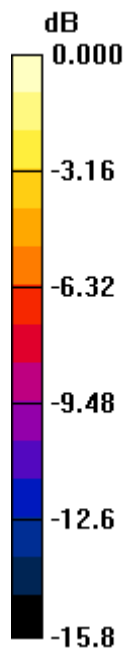
Reference Value = 0.499 A/m; Power Drift = -0.048 dB

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

Peak H-field in A/m

Grid 1 0.396 M2	Grid 2 0.413 M2	Grid 3 0.394 M2
Grid 4 0.447 M2	Grid 5 0.467 M2	Grid 6 0.442 M2
Grid 7 0.411 M2	Grid 8 0.431 M2	Grid 9 0.405 M2

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 14 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.467A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 15 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Please refer to Annex A.2 of the report number RTS-1689-0908-37 for the probe modulation factor plots

Author Data

Daoud Attayi

Dates of Test

June 28-30, 2010

Report No

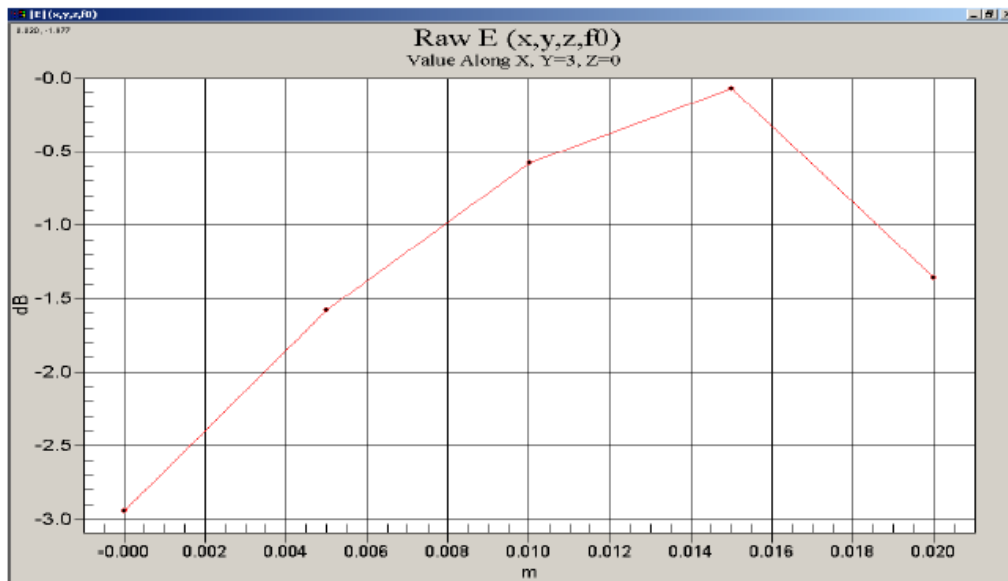
RTS-1689-1007-19

FCC ID

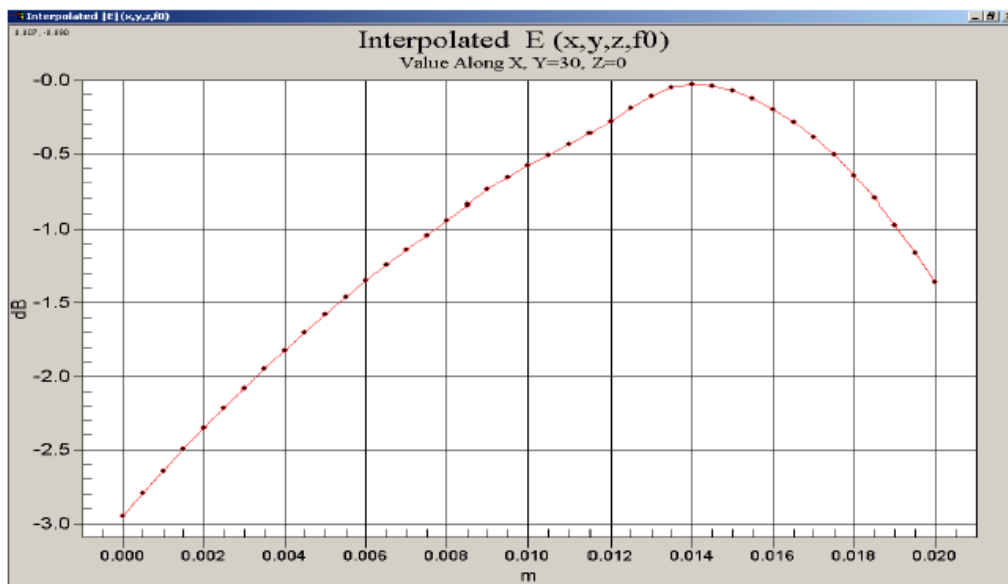
L6ARCM70UW

Justification of Step Size and Interpolation

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

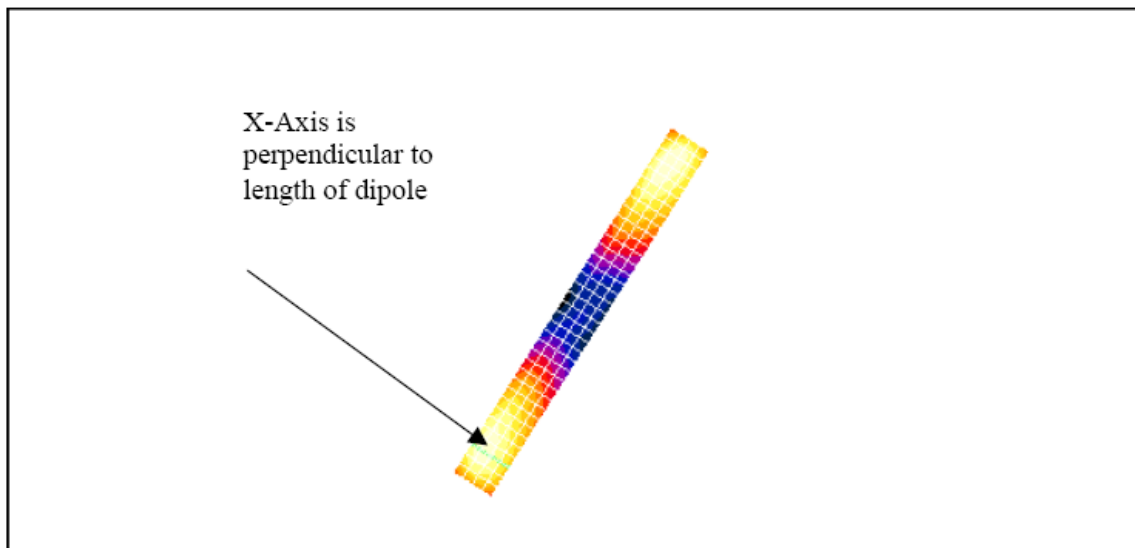


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 17 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



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 RCM72UW		Page 18 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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

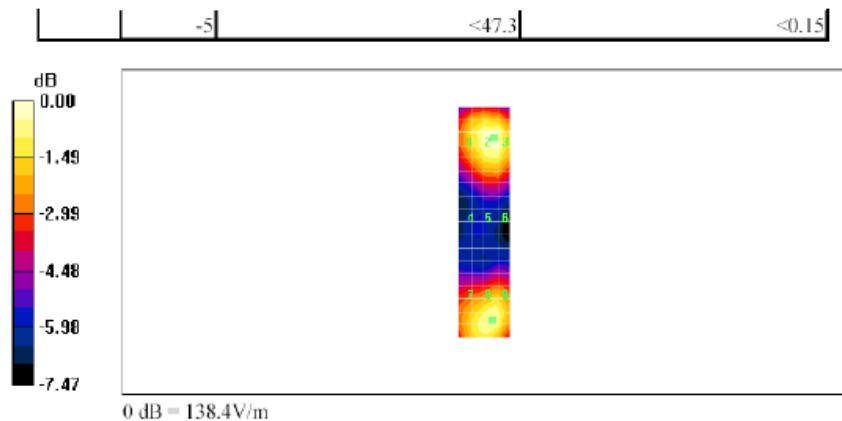
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 19 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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

Page 2 of 2



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	Document			Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW			20 (122)
Author Data	Dates of Test	Report No	FCC ID	
Daoud Attayi	June 28-30, 2010	RTS-1689-1007-19	L6ARCM70UW	

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

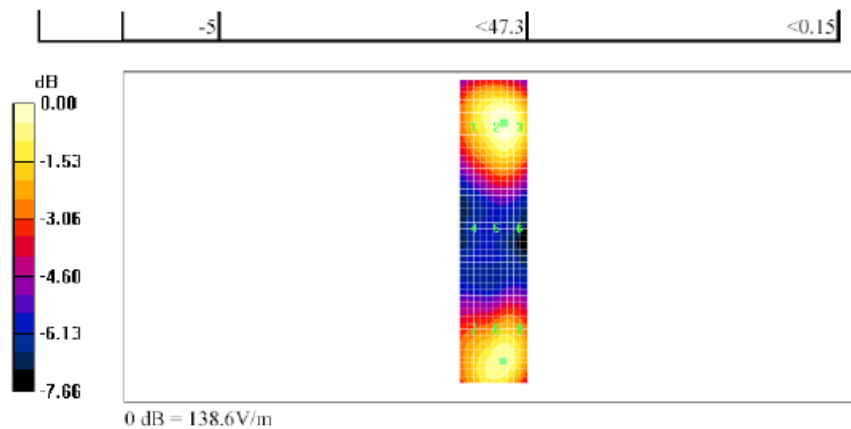
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 21 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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

Page 2 of 2



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	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 22 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

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

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

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

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

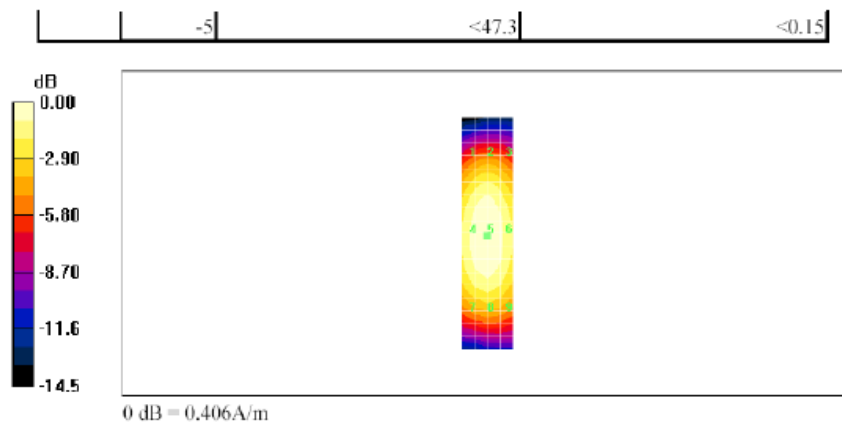
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 23 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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 RCM72UW		Page 24 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Dipole Section

DASY4 Configuration:

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

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

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

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

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

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

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

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

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

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

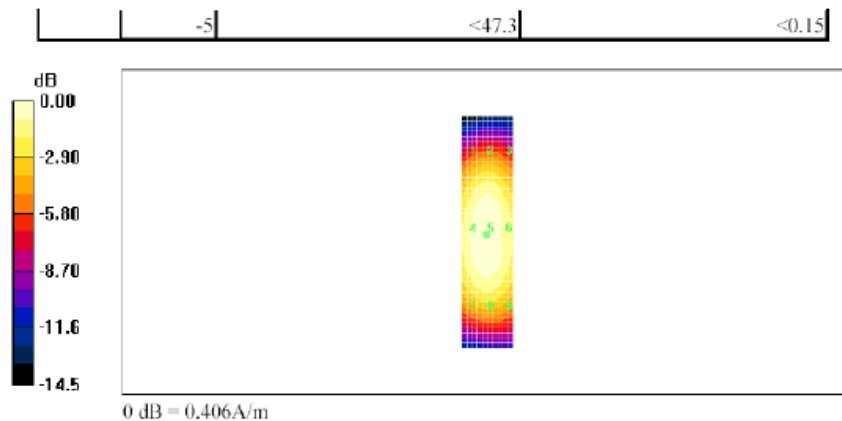
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 25 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

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 RCM72UW		Page 26 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

A.3 RF emission field plots

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 27 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 3:52:25 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 95.4 V/m; Power Drift = -0.029 dB

Maximum value of Total (measured) = 73.5 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 28 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 209.3 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 95.4 V/m; Power Drift = -0.029 dB

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

Peak E-field in V/m

Grid 1 181.7 M3	Grid 2 195.8 M3	Grid 3 188.3 M3
Grid 4 196.0 M3	Grid 5 209.3 M3	Grid 6 199.8 M3
Grid 7 203.9 M3	Grid 8 211.2 M3	Grid 9 198.3 M3

Author Data

Daoud Attayi

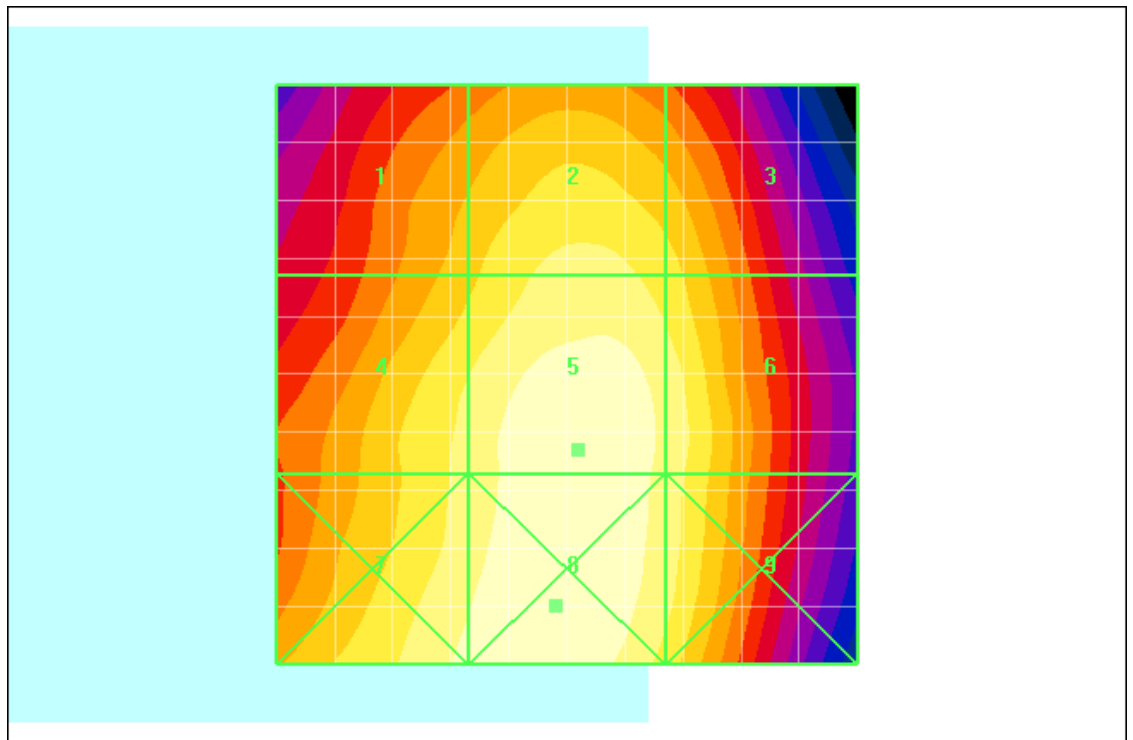
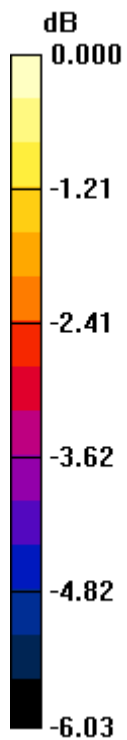
Dates of Test

June 28-30, 2010

Report No

RTS-1689-1007-19

FCC ID

L6ARCM70UW


0 dB = 211.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 30 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:00:39 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 99.7 V/m; Power Drift = 0.047 dB

Maximum value of Total (measured) = 81.2 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 31 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 229.1 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

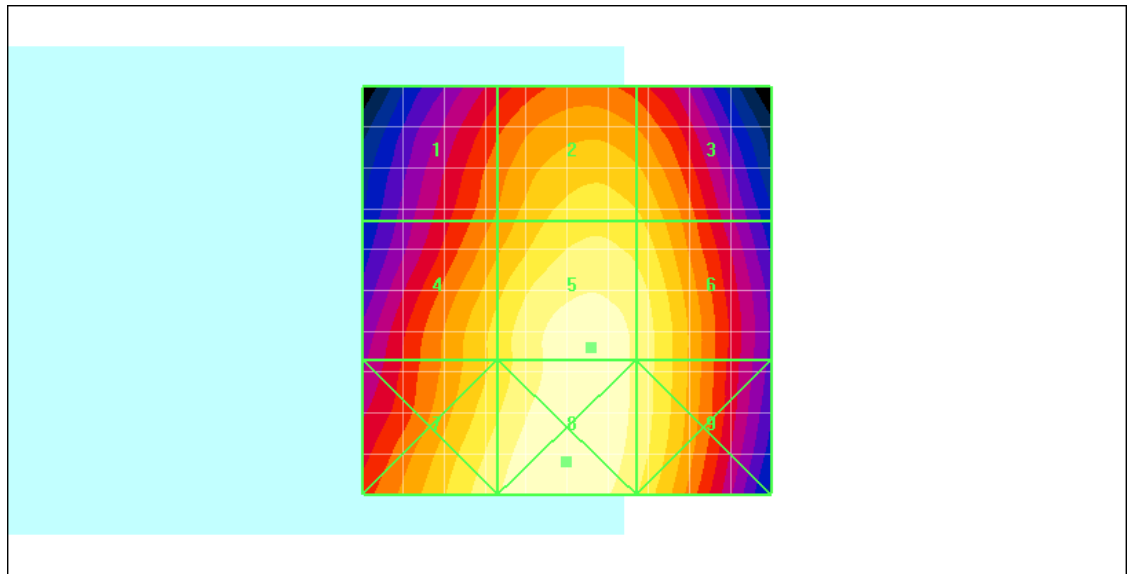
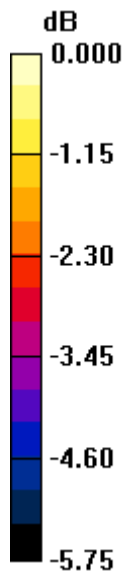
Reference Value = 99.7 V/m; Power Drift = 0.047 dB

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

Peak E-field in V/m

Grid 1 189.0 M3	Grid 2 210.8 M3	Grid 3 206.2 M3
Grid 4 208.1 M3	Grid 5 229.1 M3	Grid 6 221.0 M3
Grid 7 222.1 M3	Grid 8 233.0 M3	Grid 9 220.8 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 32 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 233.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 33 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:06:43 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 99.6 V/m; Power Drift = 0.030 dB

Maximum value of Total (measured) = 76.7 V/m

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

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 34 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 220.8 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

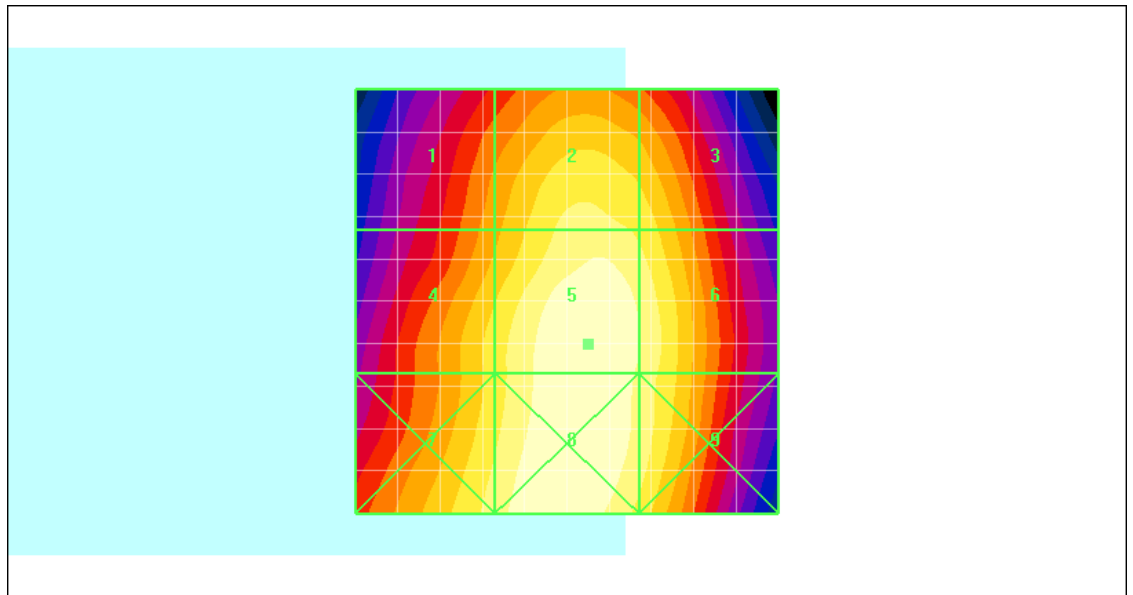
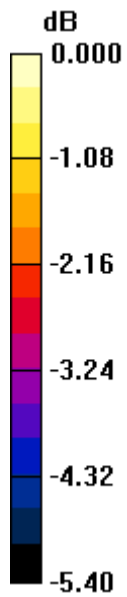
Reference Value = 99.6 V/m; Power Drift = 0.030 dB

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

Peak E-field in V/m

Grid 1 185.1 M 3	Grid 2 207.0 M 3	Grid 3 201.6 M 3
Grid 4 199.6 M 3	Grid 5 220.8 M 3	Grid 6 212.5 M 3
Grid 7 207.5 M 3	Grid 8 220.2 M 3	Grid 9 210.5 M 3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 35 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 220.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 36 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:13:52 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_850_mid_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 99.8 V/m; Power Drift = 0.042 dB

Maximum value of Total (measured) = 79.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 37 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 228.0 V/m

Probe Modulation Factor = 2.87

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 99.8 V/m; Power Drift = 0.042 dB

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

Peak E-field in V/m

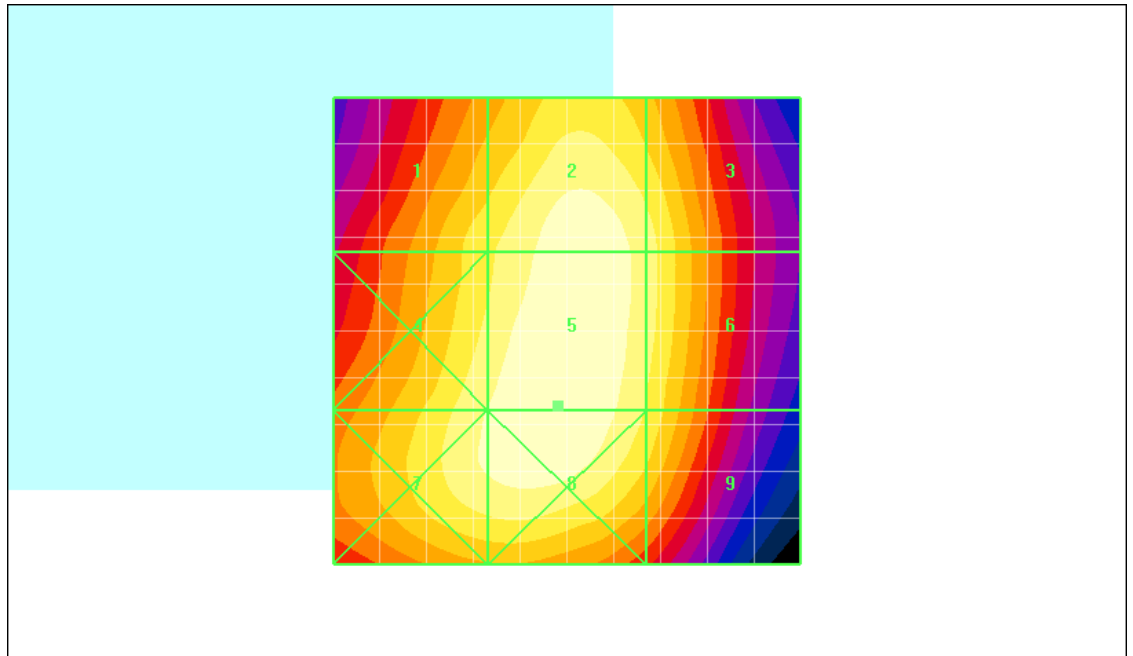
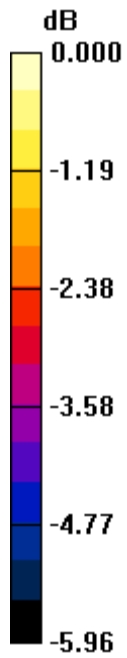
Grid 1 206.3 M3	Grid 2 225.5 M3	Grid 3 212.7 M3
Grid 4 218.1 M3	Grid 5 228.0 M3	Grid 6 212.9 M3
Grid 7 219.8 M3	Grid 8 227.9 M3	Grid 9 207.2 M3

Author Data
Daoud Attayi

Dates of Test
June 28-30, 2010

Report No
RTS-1689-1007-19

FCC ID
L6ARCM70UW



0 dB = 228.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 39 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:25:58 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.7 V/m; Power Drift = 0.019 dB

Maximum value of Total (measured) = 80.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 40 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 75.1 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

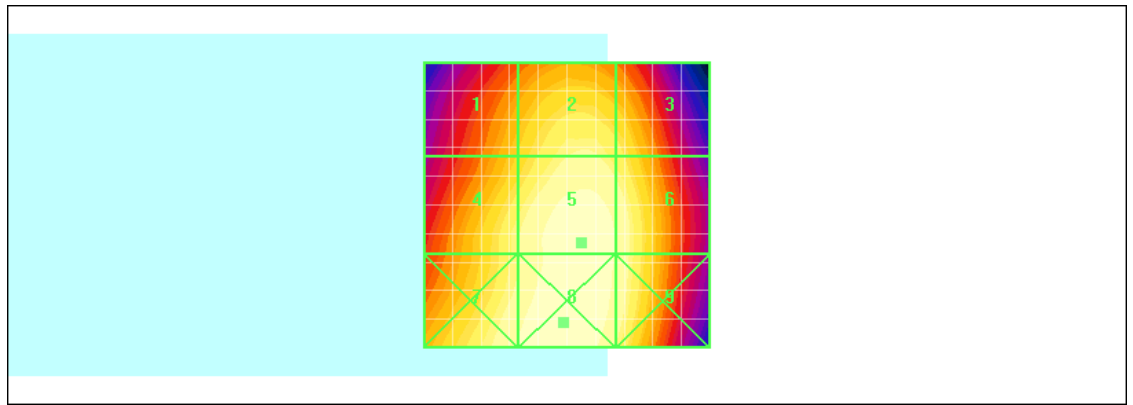
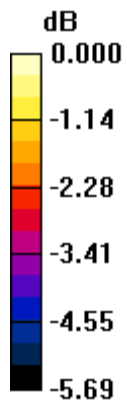
Reference Value = 102.7 V/m; Power Drift = 0.019 dB

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

Peak E-field in V/m

Grid 1 63.9 M4	Grid 2 69.8 M4	Grid 3 67.8 M4
Grid 4 69.3 M4	Grid 5 75.1 M4	Grid 6 72.3 M4
Grid 7 72.8 M4	Grid 8 75.6 M4	Grid 9 72.1 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 41 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 42 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:31:14 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 119.3 V/m; Power Drift = -0.016 dB

Maximum value of Total (measured) = 94.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 43 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 88.0 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

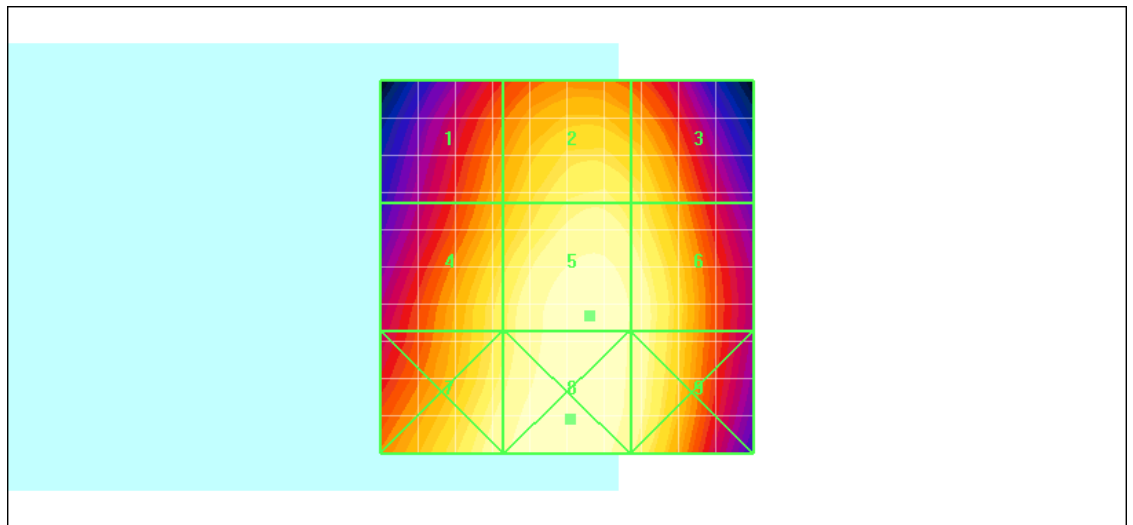
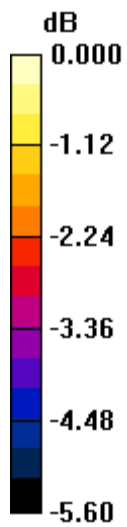
Reference Value = 119.3 V/m; Power Drift = -0.016 dB

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

Peak E-field in V/m

Grid 1 73.1 M4	Grid 2 81.2 M4	Grid 3 79.4 M4
Grid 4 79.6 M4	Grid 5 88.0 M4	Grid 6 84.9 M4
Grid 7 84.3 M4	Grid 8 88.7 M4	Grid 9 84.7 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 44 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 88.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 45 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:36:36 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 117.6 V/m; Power Drift = 0.068 dB

Maximum value of Total (measured) = 92.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 46 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 87.0 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

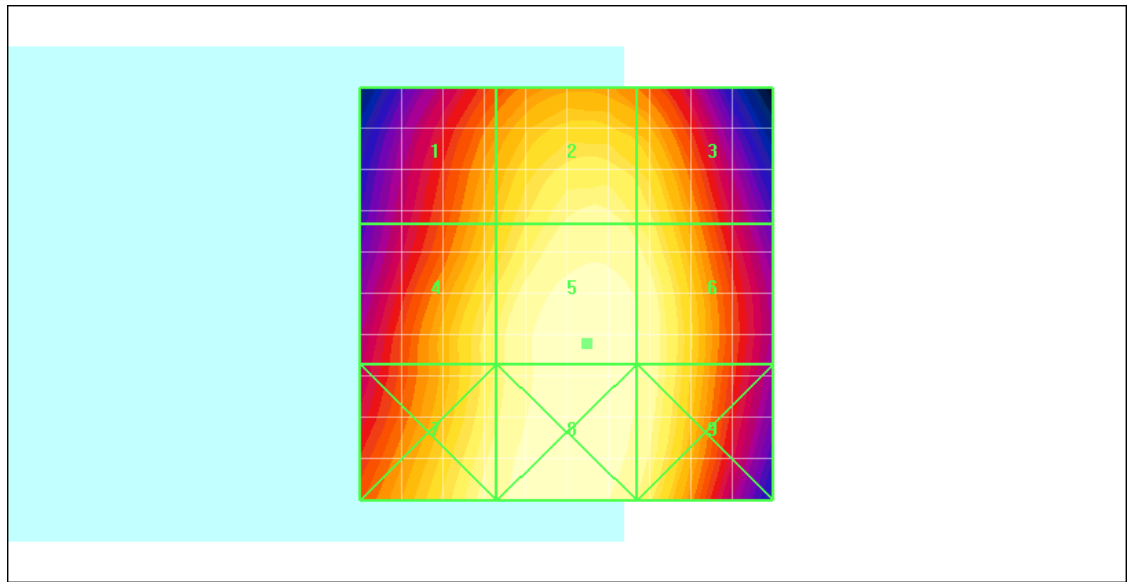
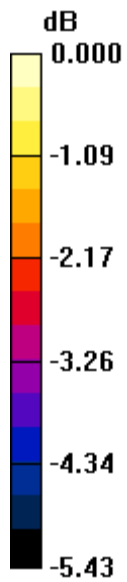
Reference Value = 117.6 V/m; Power Drift = 0.068 dB

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

Peak E-field in V/m

Grid 1 73.4 M4	Grid 2 81.2 M4	Grid 3 79.1 M4
Grid 4 79.1 M4	Grid 5 87.0 M4	Grid 6 83.7 M4
Grid 7 82.4 M4	Grid 8 86.9 M4	Grid 9 83.5 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 47 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 87.0V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 48 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:43:30 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_mid_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 119.0 V/m; Power Drift = 0.003 dB

Maximum value of Total (measured) = 94.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 49 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 88.7 V/m

Probe Modulation Factor = 0.940

Device Reference Point: 0.000, 0.000, -6.30 mm

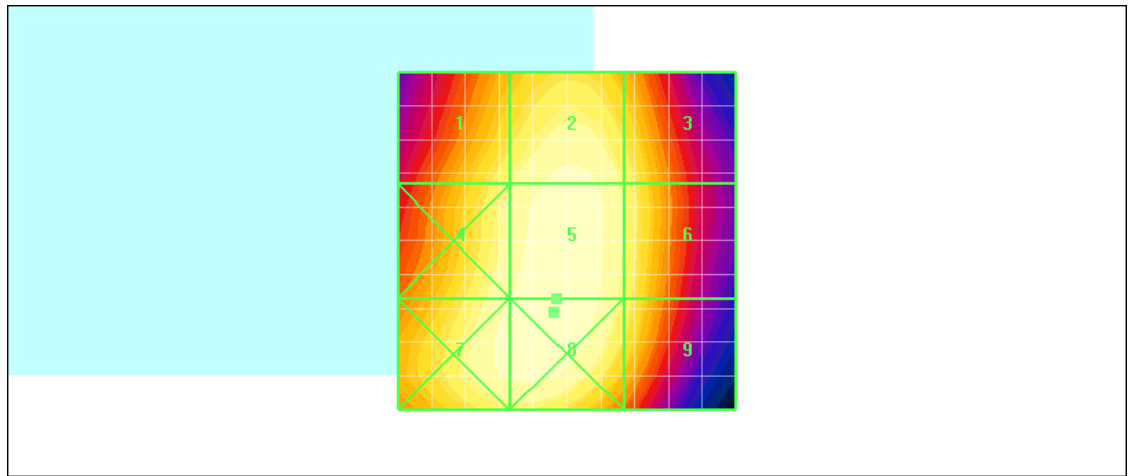
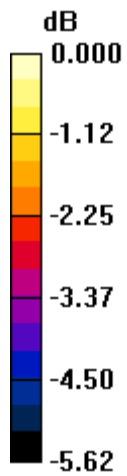
Reference Value = 119.0 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

Grid 1 81.0 M4	Grid 2 86.4 M4	Grid 3 80.5 M4
Grid 4 85.1 M4	Grid 5 88.7 M4	Grid 6 81.4 M4
Grid 7 86.8 M4	Grid 8 88.8 M4	Grid 9 80.1 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 50 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 88.8V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 51 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 4:56:25 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.5 V/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 30.0 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 52 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 54.8 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

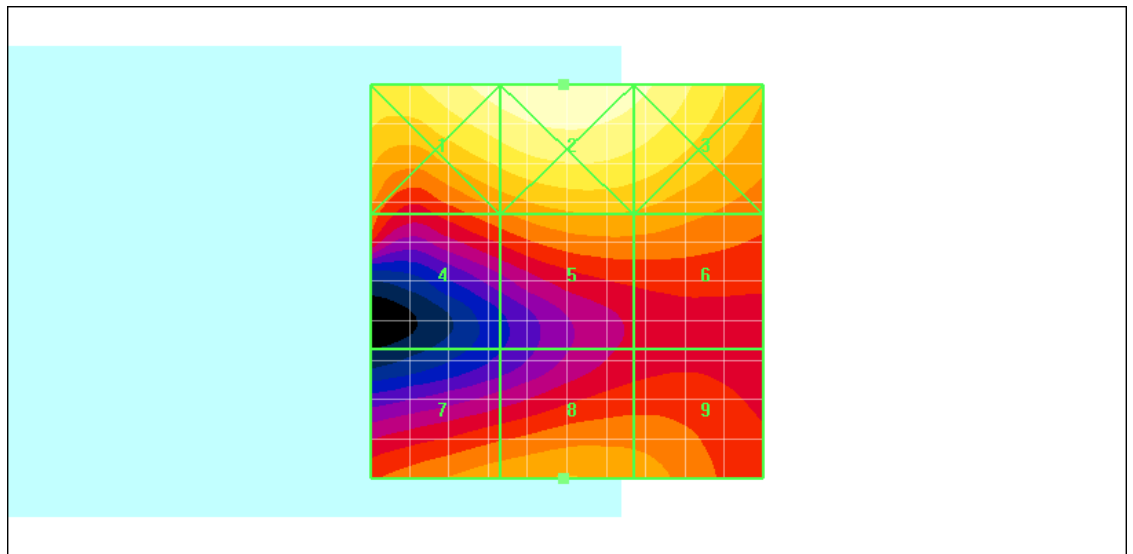
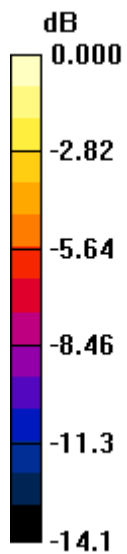
Reference Value = 14.5 V/m; Power Drift = -0.076 dB

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

Peak E-field in V/m

Grid 1 79.2 M3	Grid 2 83.7 M3	Grid 3 78.1 M3
Grid 4 47.6 M3	Grid 5 54.2 M3	Grid 6 53.4 M3
Grid 7 52.7 M3	Grid 8 54.8 M3	Grid 9 52.2 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 53 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 83.7V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 54 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:01:46 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

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

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.8 V/m; Power Drift = -0.115 dB

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

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

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 55 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 50.4 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

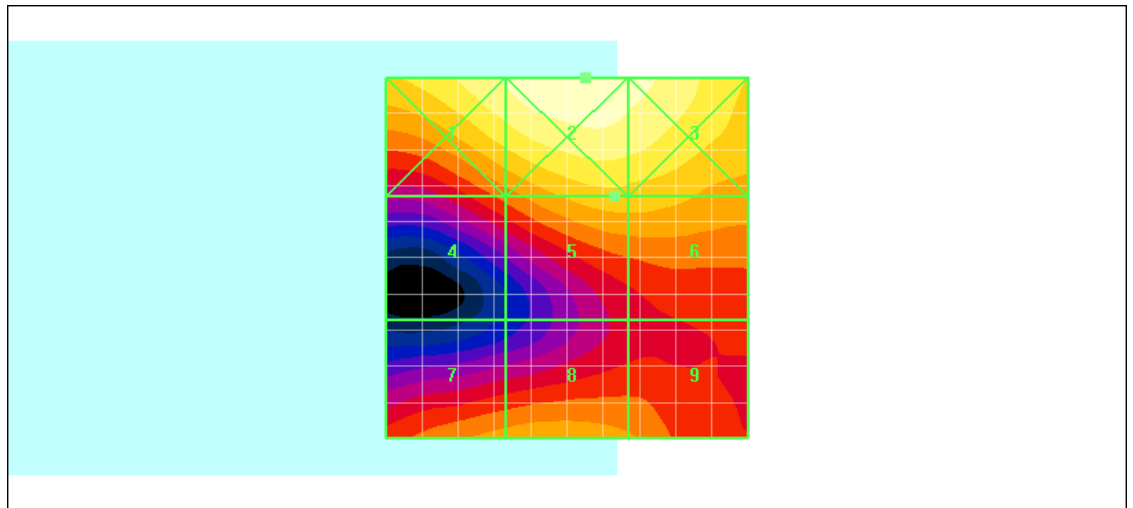
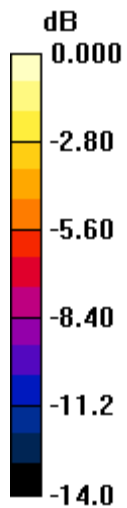
Reference Value = 13.8 V/m; Power Drift = -0.115 dB

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

Peak E-field in V/m

Grid 1 66.2 M3	Grid 2 72.2 M3	Grid 3 68.7 M3
Grid 4 39.6 M4	Grid 5 50.4 M3	Grid 6 50.0 M3
Grid 7 44.6 M4	Grid 8 45.9 M4	Grid 9 43.0 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 56 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 72.2V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 57 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:07:15 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.3 V/m; Power Drift = -0.003 dB

Maximum value of Total (measured) = 24.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 58 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 52.4 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

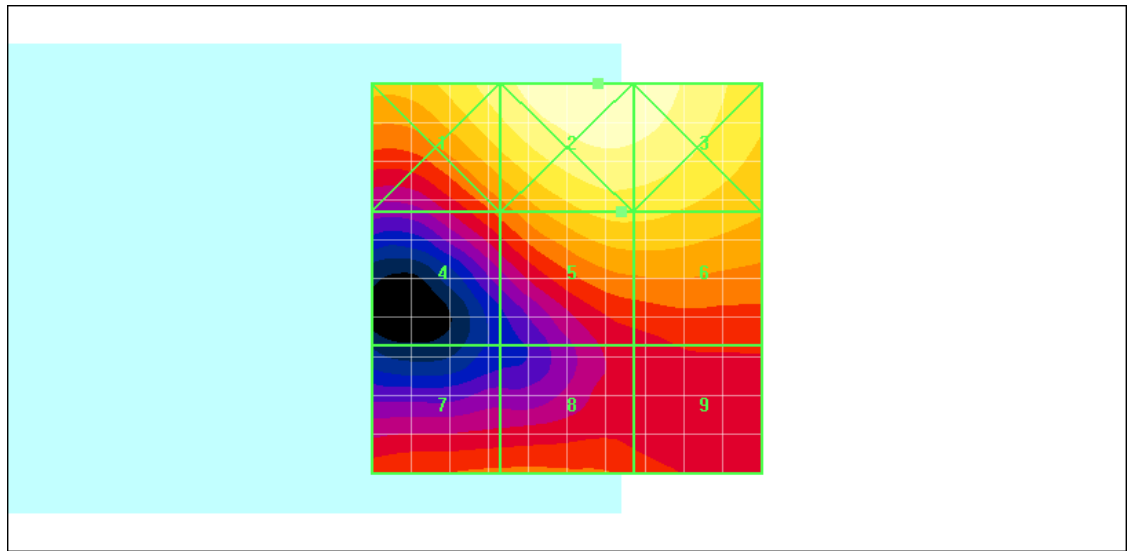
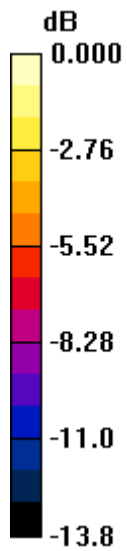
Reference Value = 15.3 V/m; Power Drift = -0.003 dB

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

Peak E-field in V/m

Grid 1 60.2 M3	Grid 2 69.4 M3	Grid 3 67.3 M3
Grid 4 38.3 M4	Grid 5 52.4 M3	Grid 6 52.2 M3
Grid 7 38.0 M4	Grid 8 38.0 M4	Grid 9 35.3 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 59 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 69.4V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 60 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:13:00 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM_1900_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.2 V/m; Power Drift = -0.138 dB

Maximum value of Total (measured) = 23.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 61 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 64.2 V/m

Probe Modulation Factor = 2.79

Device Reference Point: 0.000, 0.000, -6.30 mm

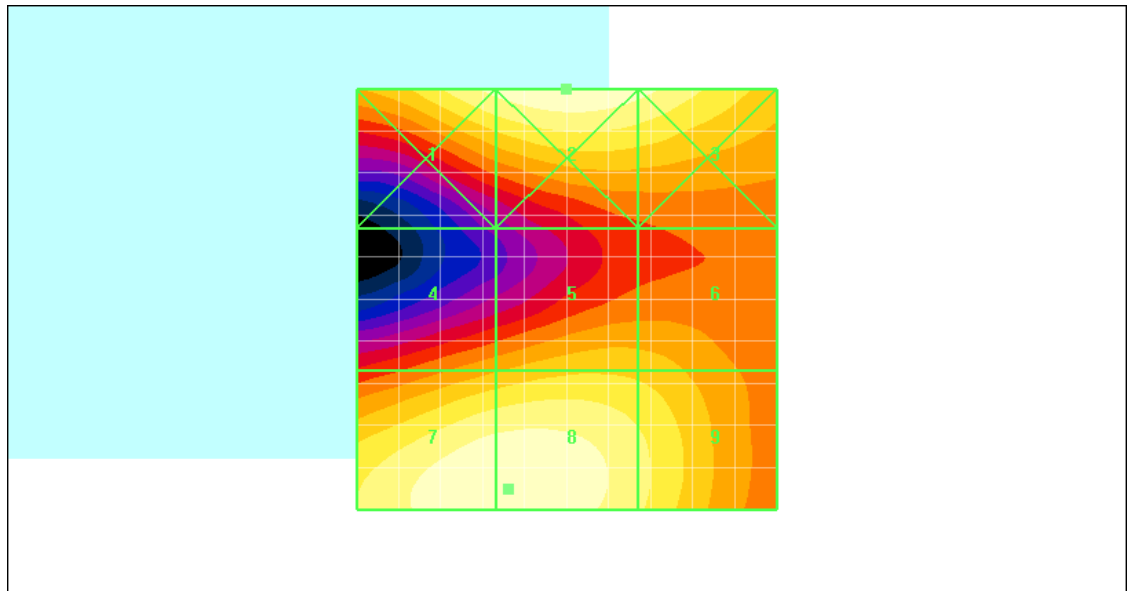
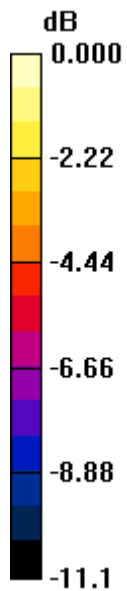
Reference Value = 14.2 V/m; Power Drift = -0.138 dB

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

Peak E-field in V/m

Grid 1 61.0 M3	Grid 2 64.5 M3	Grid 3 61.3 M3
Grid 4 45.7 M4	Grid 5 49.6 M3	Grid 6 48.8 M3
Grid 7 64.1 M3	Grid 8 64.2 M3	Grid 9 56.0 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 62 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 64.5V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 63 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:20:18 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.5 V/m; Power Drift = -0.261 dB

Maximum value of Total (measured) = 38.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 64 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 24.8 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

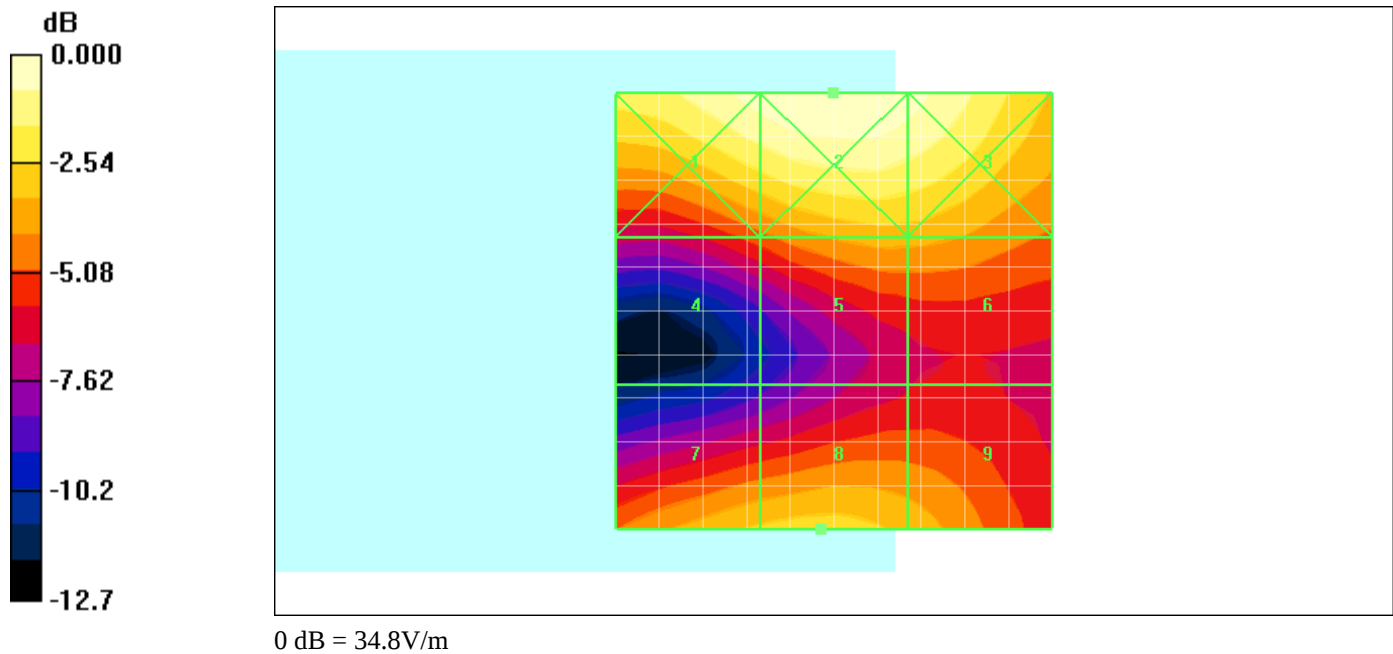
Reference Value = 18.5 V/m; Power Drift = -0.261 dB

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

Peak E-field in V/m

Grid 1 33.0 M4	Grid 2 34.8 M4	Grid 3 32.9 M4
Grid 4 18.9 M4	Grid 5 22.6 M4	Grid 6 22.5 M4
Grid 7 24.1 M4	Grid 8 24.8 M4	Grid 9 22.9 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 65 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 66 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:25:57 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 19.6 V/m; Power Drift = 0.003 dB

Maximum value of Total (measured) = 37.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 67 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 23.9 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 19.6 V/m; Power Drift = 0.003 dB

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

Peak E-field in V/m

Grid 1 30.6 M4	Grid 2 33.9 M4	Grid 3 33.1 M4
Grid 4 18.7 M4	Grid 5 23.9 M4	Grid 6 23.9 M4
Grid 7 19.6 M4	Grid 8 20.4 M4	Grid 9 19.5 M4

Author Data

Daoud Attayi

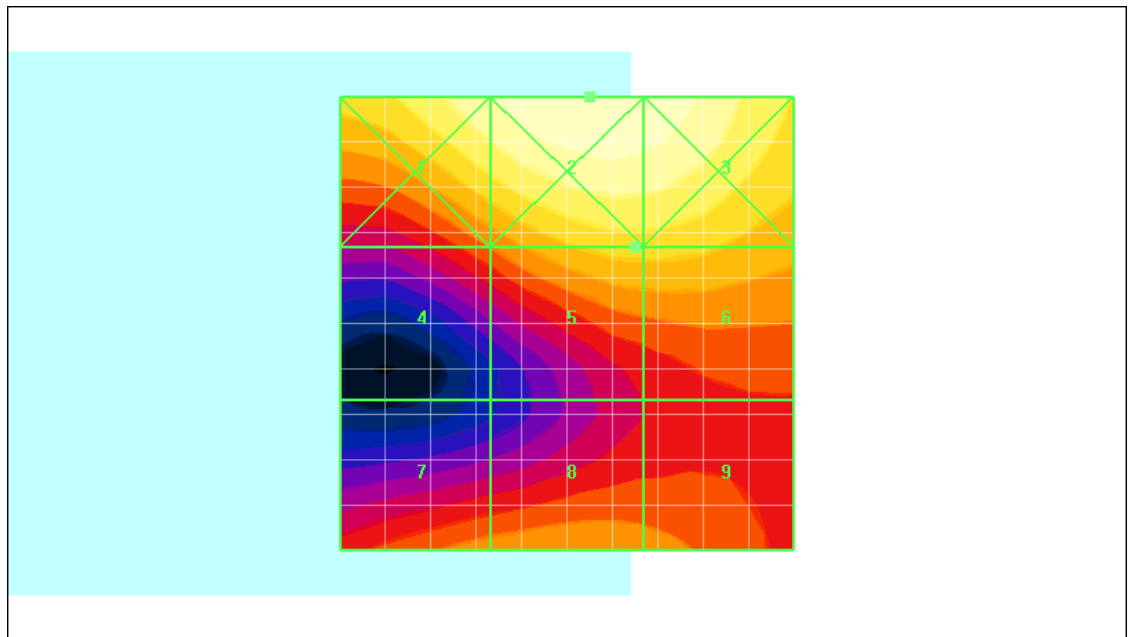
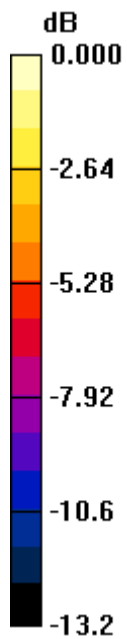
Dates of Test

June 28-30, 2010

Report No

RTS-1689-1007-19

FCC ID

L6ARCM70UW


0 dB = 33.9V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 69 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:31:02 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 21.9 V/m; Power Drift = -0.013 dB

Maximum value of Total (measured) = 36.3 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 70 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 24.7 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

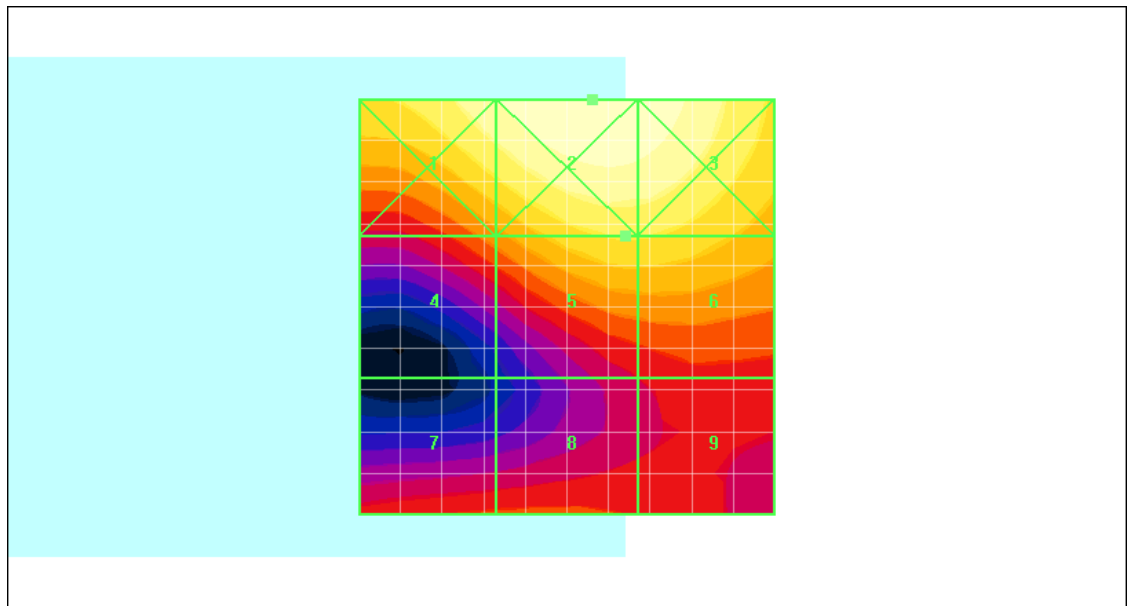
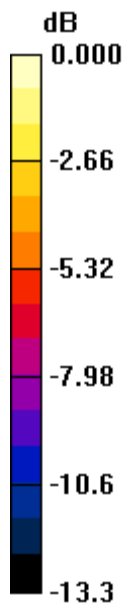
Reference Value = 21.9 V/m; Power Drift = -0.013 dB

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

Peak E-field in V/m

Grid 1 29.8 M4	Grid 2 33.1 M4	Grid 3 32.3 M4
Grid 4 19.2 M4	Grid 5 24.7 M4	Grid 6 24.7 M4
Grid 7 16.7 M4	Grid 8 16.9 M4	Grid 9 16.1 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 71 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 33.1V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 72 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 5:36:57 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

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

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.4 V/m; Power Drift = -0.026 dB

Maximum value of Total (measured) = 29.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 73 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 27.3 V/m

Probe Modulation Factor = 0.910

Device Reference Point: 0.000, 0.000, -6.30 mm

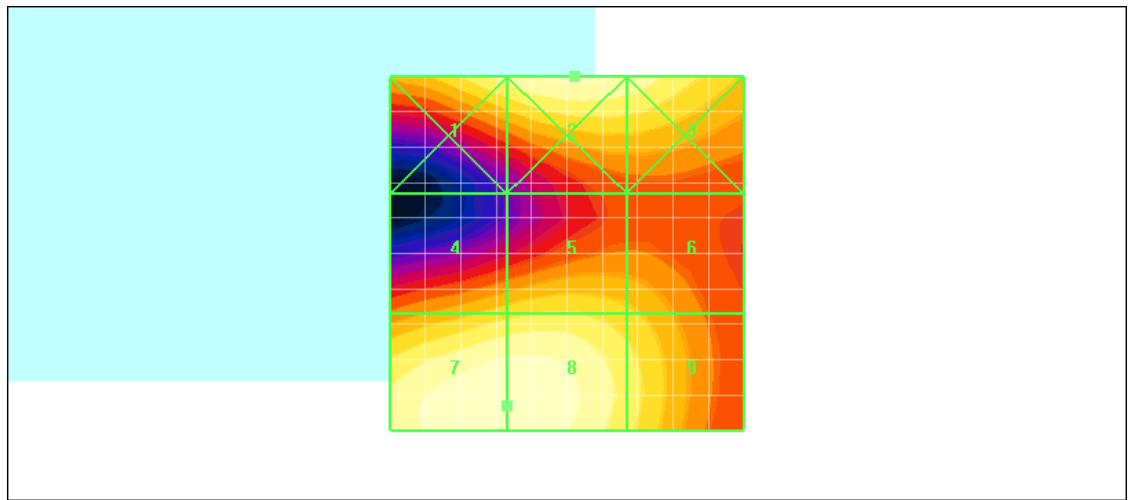
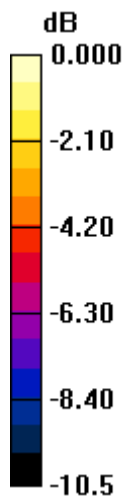
Reference Value = 18.4 V/m; Power Drift = -0.026 dB

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

Peak E-field in V/m

Grid 1 24.1 M4	Grid 2 25.9 M4	Grid 3 24.9 M4
Grid 4 20.7 M4	Grid 5 21.6 M4	Grid 6 20.2 M4
Grid 7 27.3 M4	Grid 8 27.3 M4	Grid 9 22.4 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 74 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 27.3V/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 75 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 10:53:45 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.077 A/m; Power Drift = -0.004 dB

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

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 76 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.310 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

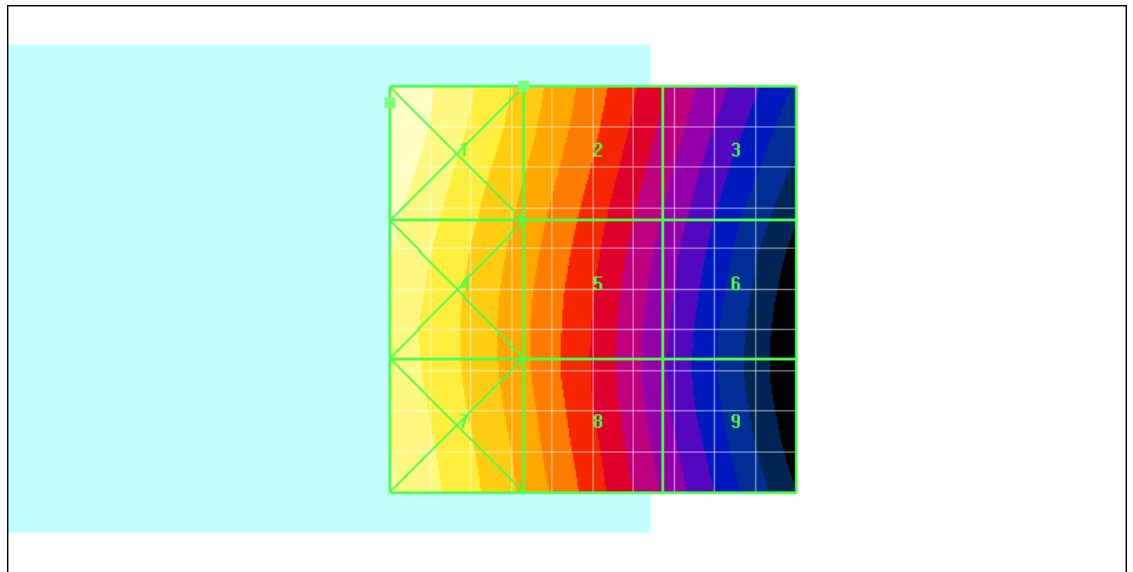
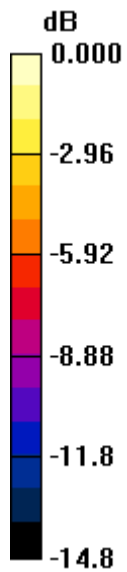
Reference Value = 0.077 A/m; Power Drift = -0.004 dB

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

Peak H-field in A/m

Grid 1 0.455 M3	Grid 2 0.310 M4	Grid 3 0.187 M4
Grid 4 0.417 M4	Grid 5 0.279 M4	Grid 6 0.163 M4
Grid 7 0.412 M4	Grid 8 0.282 M4	Grid 9 0.163 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 77 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.455A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 78 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:03:34 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = 0.006 dB

Maximum value of Total (measured) = 0.184 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 79 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.358 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

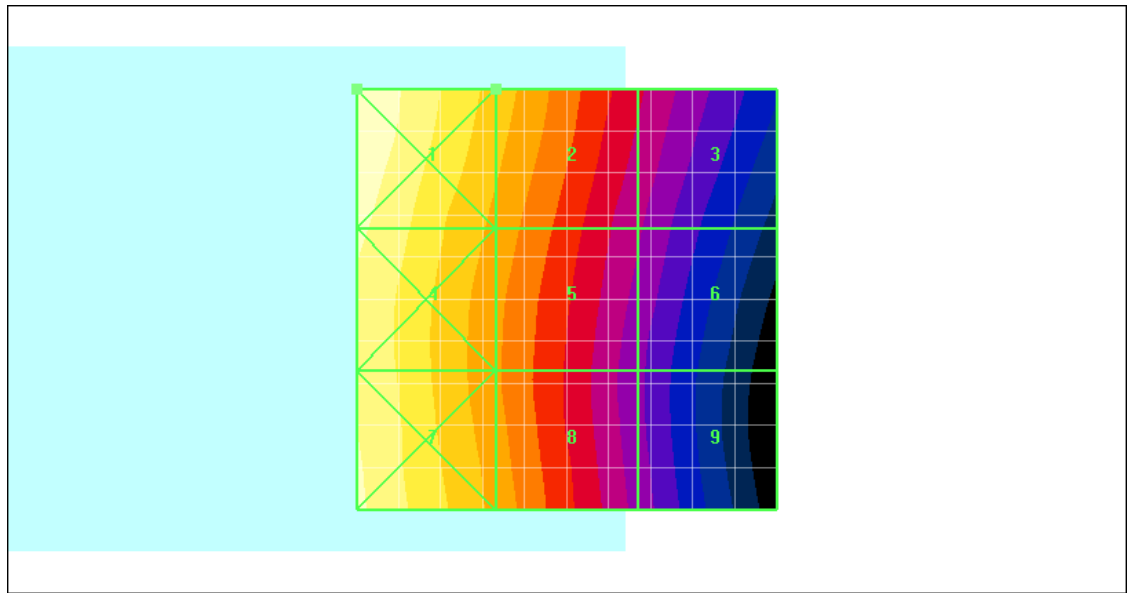
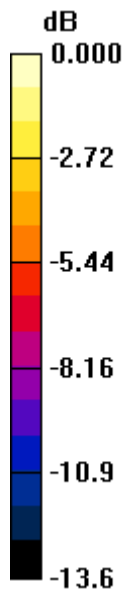
Reference Value = 0.092 A/m; Power Drift = 0.006 dB

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

Peak H-field in A/m

Grid 1 0.511 M3	Grid 2 0.358 M4	Grid 3 0.227 M4
Grid 4 0.472 M3	Grid 5 0.327 M4	Grid 6 0.203 M4
Grid 7 0.471 M3	Grid 8 0.326 M4	Grid 9 0.193 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 80 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.511A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 81 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:09:26 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.099 A/m; Power Drift = 0.371 dB

Maximum value of Total (measured) = 0.193 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 82 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.382 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

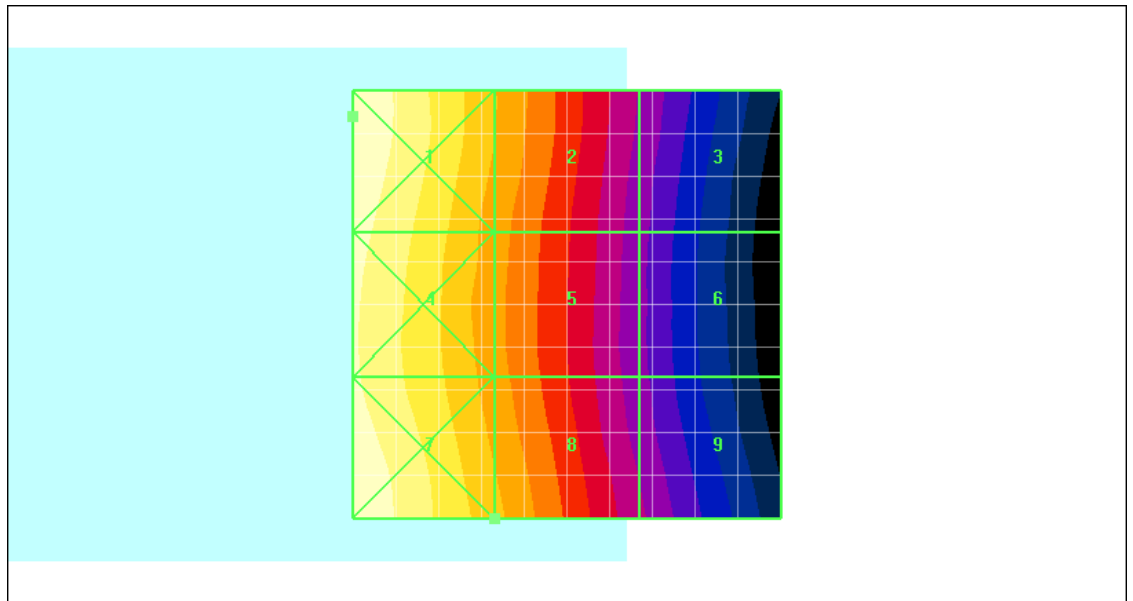
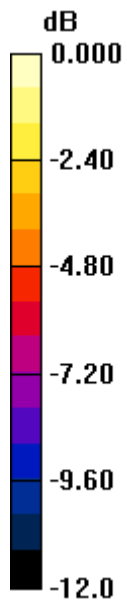
Reference Value = 0.099 A/m; Power Drift = 0.371 dB

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

Peak H-field in A/m

Grid 1 0.535 M3	Grid 2 0.373 M4	Grid 3 0.233 M4
Grid 4 0.507 M3	Grid 5 0.354 M4	Grid 6 0.221 M4
Grid 7 0.533 M3	Grid 8 0.382 M4	Grid 9 0.239 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 83 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.535A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 84 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:19:23 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.099 A/m; Power Drift = -0.010 dB

Maximum value of Total (measured) = 0.177 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 85 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.351 A/m

Probe Modulation Factor = 2.77

Device Reference Point: 0.000, 0.000, -6.30 mm

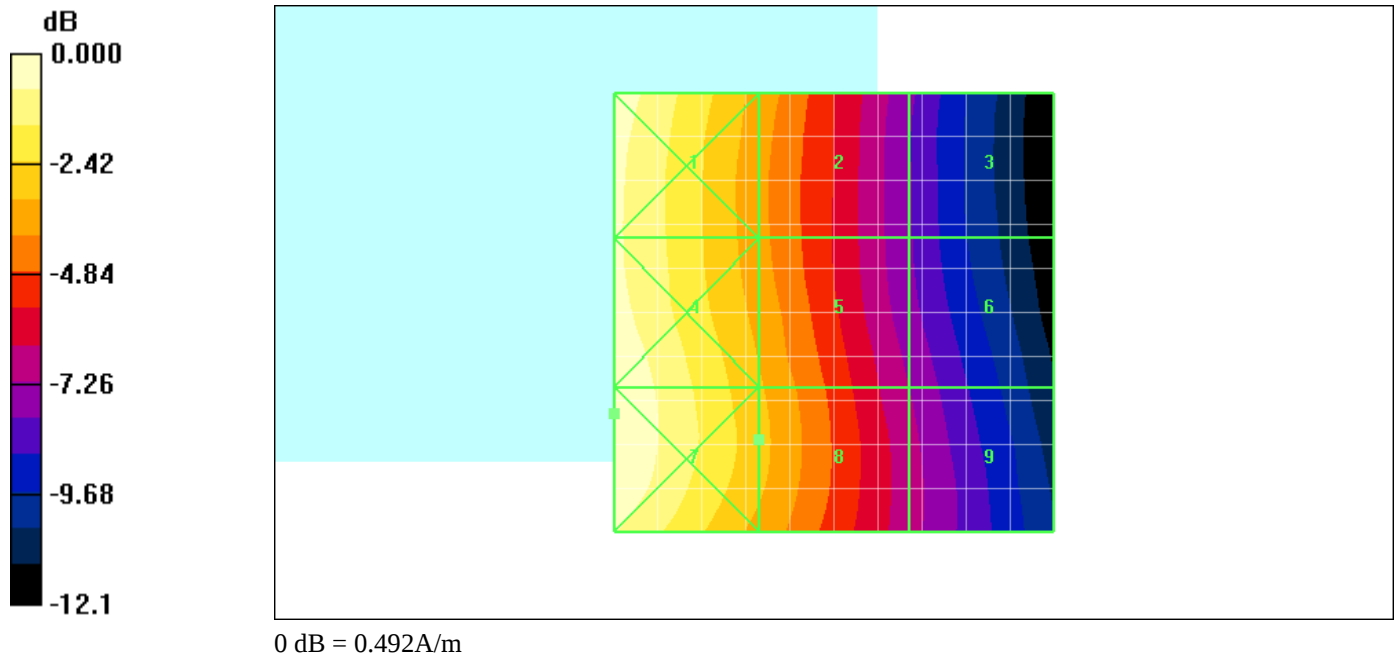
Reference Value = 0.099 A/m; Power Drift = -0.010 dB

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

Peak H-field in A/m

Grid 1 0.478 M3	Grid 2 0.328 M4	Grid 3 0.200 M4
Grid 4 0.488 M3	Grid 5 0.344 M4	Grid 6 0.214 M4
Grid 7 0.492 M3	Grid 8 0.351 M4	Grid 9 0.224 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 86 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 87 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:30:11 AM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = 0.017 dB

Maximum value of Total (measured) = 0.172 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 88 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.135 A/m

Probe Modulation Factor = 1.11

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = 0.017 dB

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

Peak H-field in A/m

Grid 1 0.191 M4	Grid 2 0.135 M4	Grid 3 0.084 M4
Grid 4 0.173 M4	Grid 5 0.122 M4	Grid 6 0.075 M4
Grid 7 0.179 M4	Grid 8 0.126 M4	Grid 9 0.076 M4

Author Data

Daoud Attayi

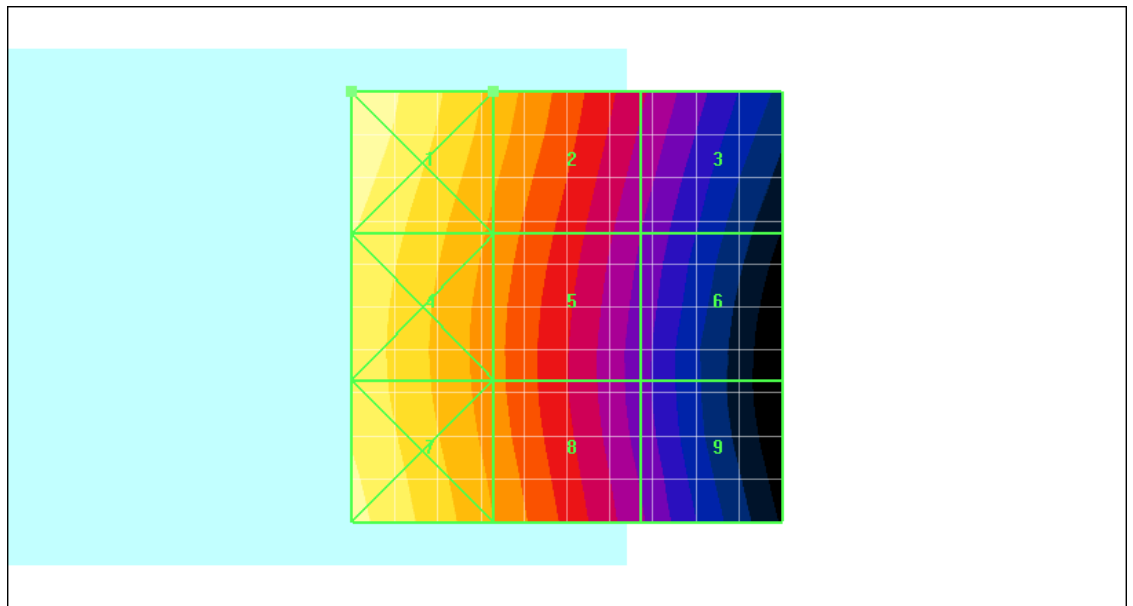
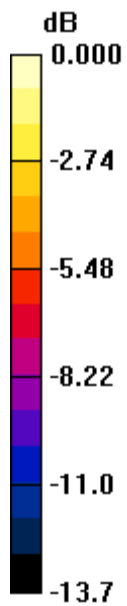
Dates of Test

June 28-30, 2010

Report No

RTS-1689-1007-19

FCC ID

L6ARCM70UW


0 dB = 0.191A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 90 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:35:49 AM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.104 A/m; Power Drift = 0.069 dB

Maximum value of Total (measured) = 0.202 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 91 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 1.11

Device Reference Point: 0.000, 0.000, -6.30 mm

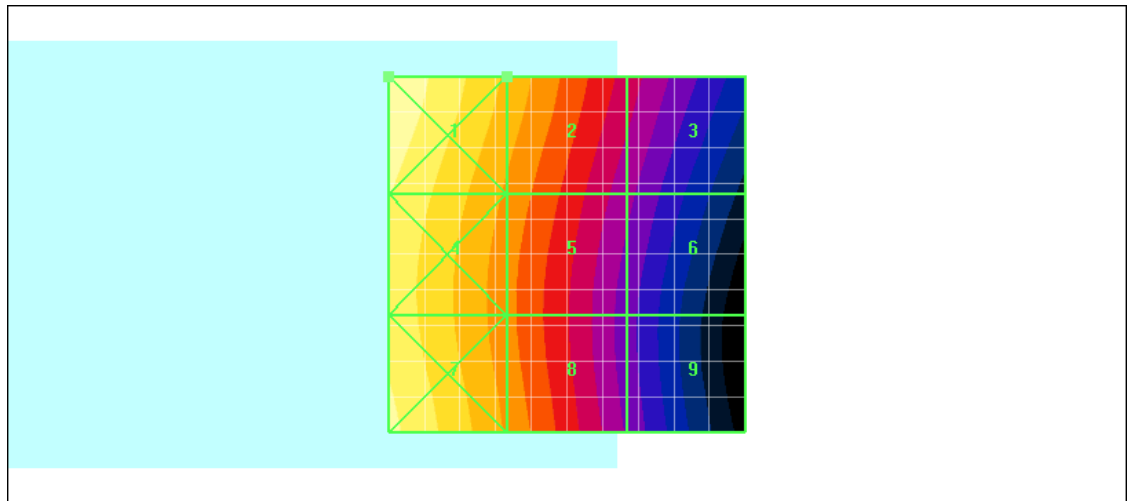
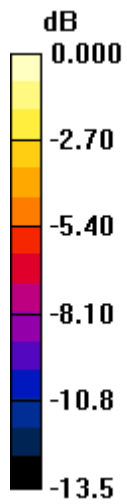
Reference Value = 0.104 A/m; Power Drift = 0.069 dB

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

Peak H-field in A/m

Grid 1 0.224 M4	Grid 2 0.161 M4	Grid 3 0.104 M4
Grid 4 0.203 M4	Grid 5 0.146 M4	Grid 6 0.091 M4
Grid 7 0.209 M4	Grid 8 0.147 M4	Grid 9 0.087 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 92 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.224A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 93 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:40:46 AM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.109 A/m; Power Drift = 0.106 dB

Maximum value of Total (measured) = 0.200 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 94 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 1.11

Device Reference Point: 0.000, 0.000, -6.30 mm

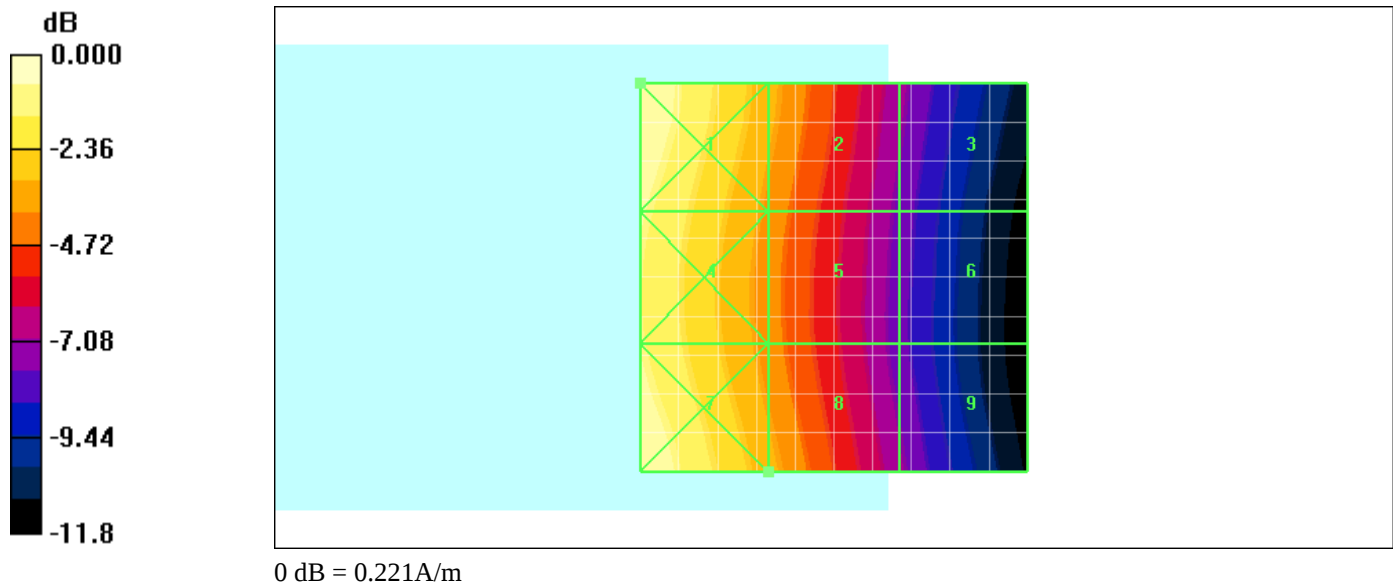
Reference Value = 0.109 A/m; Power Drift = 0.106 dB

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

Peak H-field in A/m

Grid 1 0.221 M4	Grid 2 0.161 M4	Grid 3 0.102 M4
Grid 4 0.207 M4	Grid 5 0.152 M4	Grid 6 0.096 M4
Grid 7 0.221 M4	Grid 8 0.161 M4	Grid 9 0.101 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 95 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 96 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:47:27 AM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.110 A/m; Power Drift = -0.024 dB

Maximum value of Total (measured) = 0.190 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 97 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.151 A/m

Probe Modulation Factor = 1.11

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.110 A/m; Power Drift = -0.024 dB

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

Peak H-field in A/m

Grid 1 0.204 M4	Grid 2 0.147 M4	Grid 3 0.090 M4
Grid 4 0.204 M4	Grid 5 0.146 M4	Grid 6 0.089 M4
Grid 7 0.211 M4	Grid 8 0.151 M4	Grid 9 0.094 M4

Author Data

Daoud Attayi

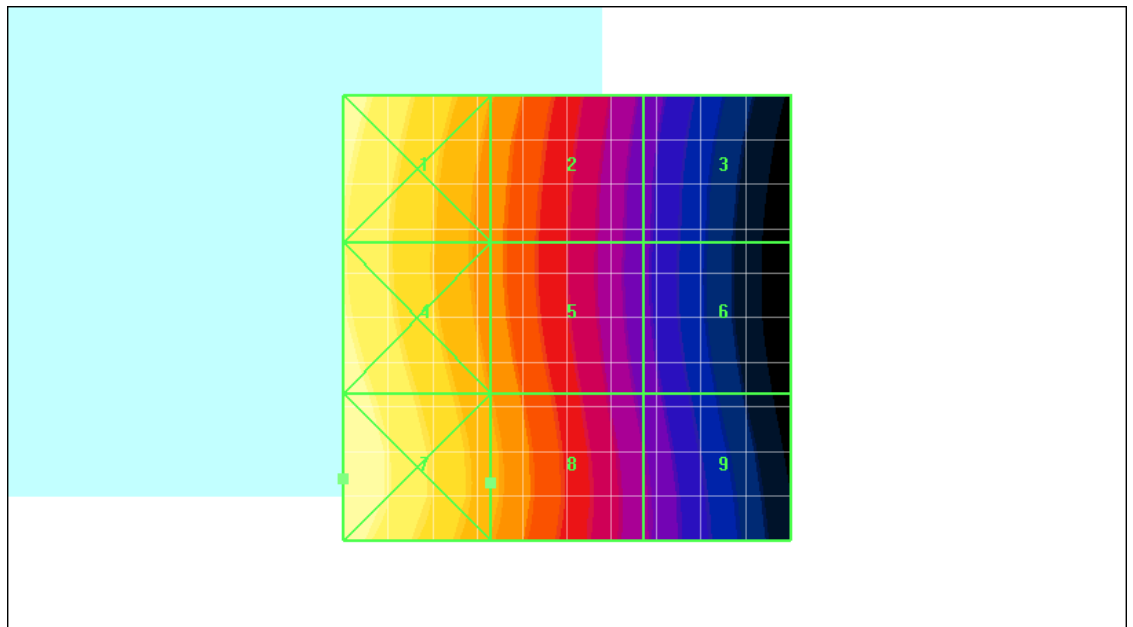
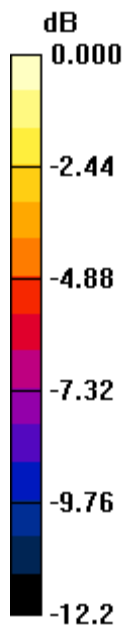
Dates of Test

June 28-30, 2010

Report No

RTS-1689-1007-19

FCC ID

L6ARCM70UW


0 dB = 0.211A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 99 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:54:16 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.082 A/m; Power Drift = -0.125 dB

Maximum value of Total (measured) = 0.104 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 100 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.183 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

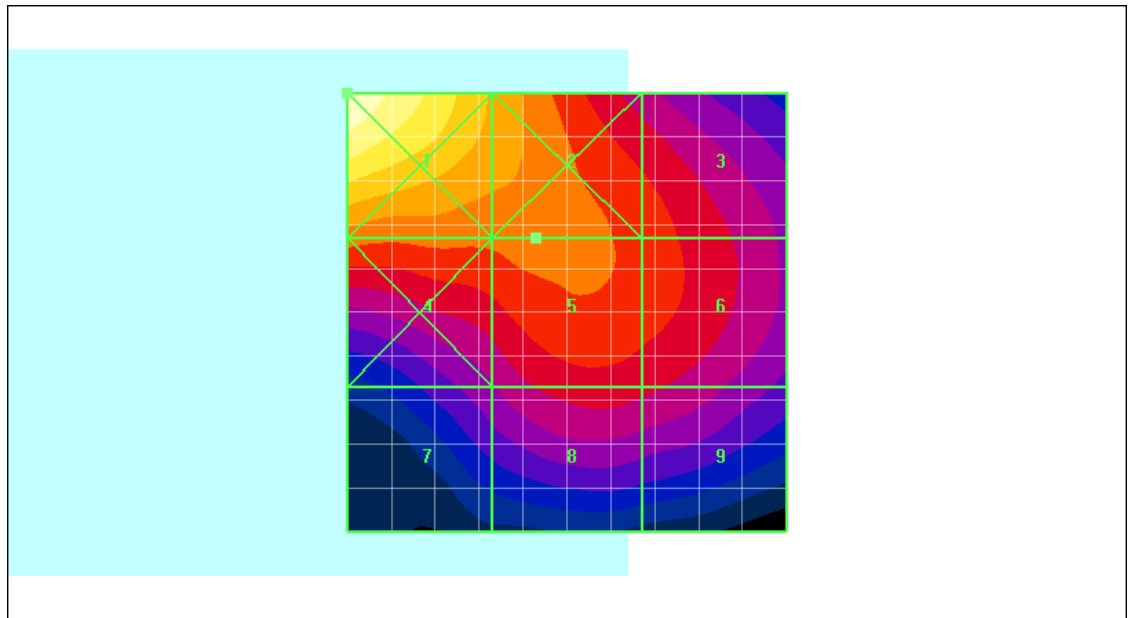
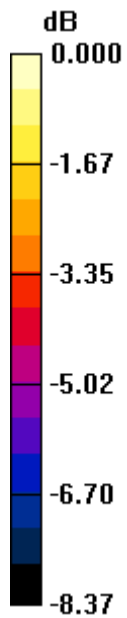
Reference Value = 0.082 A/m; Power Drift = -0.125 dB

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

Peak H-field in A/m

Grid 1 0.263 M2	Grid 2 0.202 M3	Grid 3 0.175 M3
Grid 4 0.185 M3	Grid 5 0.183 M3	Grid 6 0.175 M3
Grid 7 0.147 M3	Grid 8 0.164 M3	Grid 9 0.160 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 101 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.263A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 102 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 11:59:47 AM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.070 A/m; Power Drift = 0.124 dB

Maximum value of Total (measured) = 0.093 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 103 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.165 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

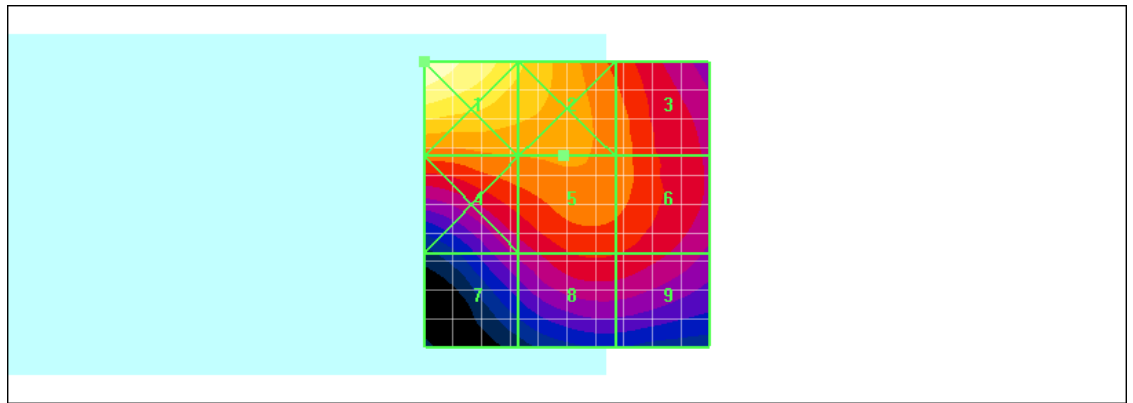
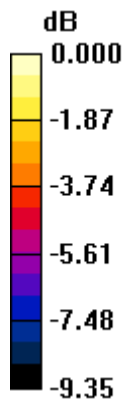
Reference Value = 0.070 A/m; Power Drift = 0.124 dB

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

Peak H-field in A/m

Grid 1 0.233 M3	Grid 2 0.191 M3	Grid 3 0.158 M3
Grid 4 0.163 M3	Grid 5 0.165 M3	Grid 6 0.159 M3
Grid 7 0.125 M4	Grid 8 0.143 M3	Grid 9 0.142 M3

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 104 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.233A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 105 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:05:15 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.062 A/m; Power Drift = 0.040 dB

Maximum value of Total (measured) = 0.092 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 106 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

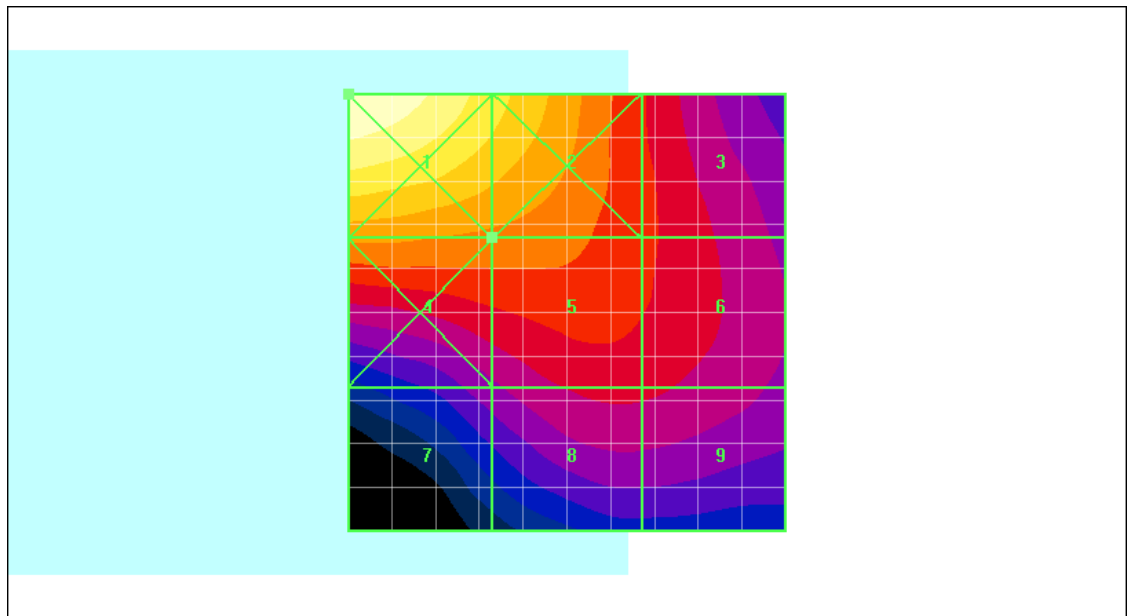
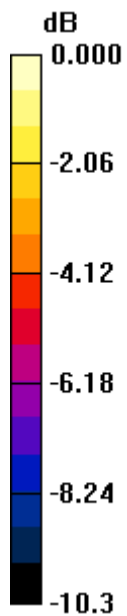
Reference Value = 0.062 A/m; Power Drift = 0.040 dB

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

Peak H-field in A/m

Grid 1 0.231 M3	Grid 2 0.189 M3	Grid 3 0.136 M4
Grid 4 0.159 M3	Grid 5 0.153 M3	Grid 6 0.136 M4
Grid 7 0.112 M4	Grid 8 0.126 M4	Grid 9 0.125 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 107 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.231A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 108 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:11:33 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.081 A/m; Power Drift = -0.051 dB

Maximum value of Total (measured) = 0.084 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 109 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.174 A/m

Probe Modulation Factor = 2.52

Device Reference Point: 0.000, 0.000, -6.30 mm

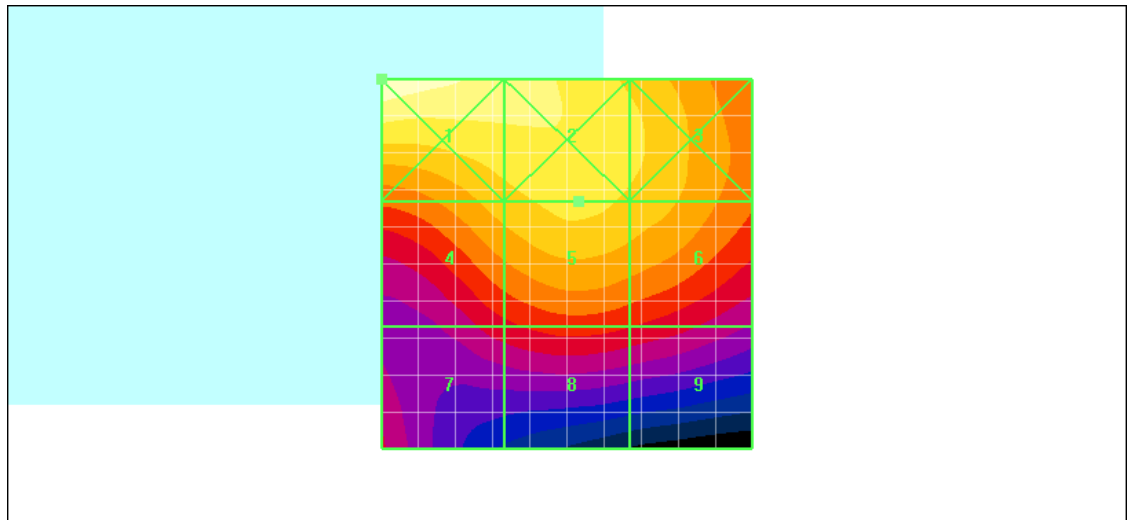
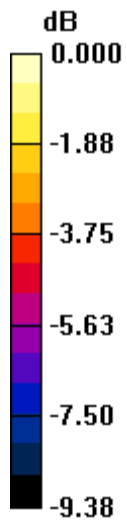
Reference Value = 0.081 A/m; Power Drift = -0.051 dB

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

Peak H-field in A/m

Grid 1 0.211 M3	Grid 2 0.191 M3	Grid 3 0.174 M3
Grid 4 0.165 M3	Grid 5 0.174 M3	Grid 6 0.168 M3
Grid 7 0.125 M4	Grid 8 0.132 M4	Grid 9 0.128 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 110 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.211A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 111 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:20:12 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.103 A/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 0.131 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 112 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.089 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

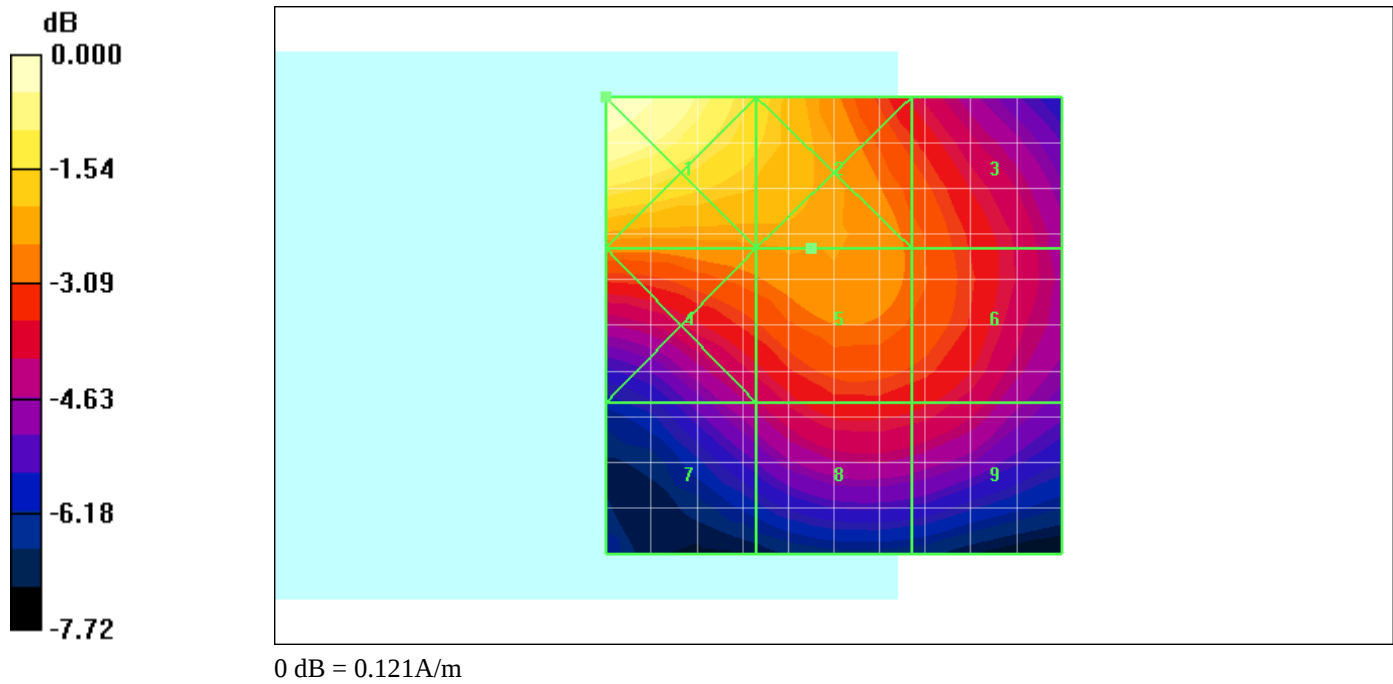
Reference Value = 0.103 A/m; Power Drift = -0.006 dB

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

Peak H-field in A/m

Grid 1 0.121 M4	Grid 2 0.098 M4	Grid 3 0.084 M4
Grid 4 0.088 M4	Grid 5 0.089 M4	Grid 6 0.084 M4
Grid 7 0.071 M4	Grid 8 0.078 M4	Grid 9 0.076 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 113 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 114 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:26:18 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_mid_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.094 A/m; Power Drift = -0.039 dB

Maximum value of Total (measured) = 0.126 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

dx=5mm, dy=5mm

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 115 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Maximum value of peak Total field = 0.081 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

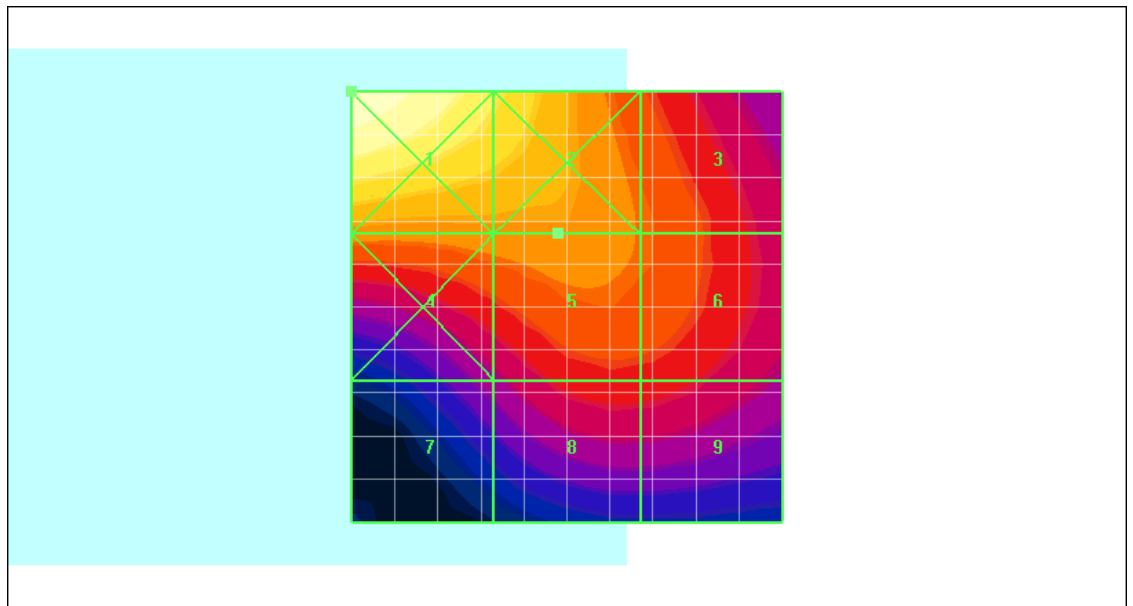
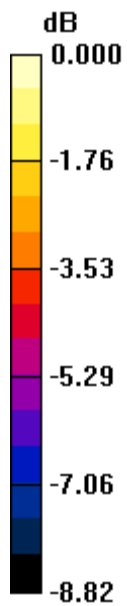
Reference Value = 0.094 A/m; Power Drift = -0.039 dB

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

Peak H-field in A/m

Grid 1 0.116 M4	Grid 2 0.096 M4	Grid 3 0.077 M4
Grid 4 0.080 M4	Grid 5 0.081 M4	Grid 6 0.077 M4
Grid 7 0.061 M4	Grid 8 0.070 M4	Grid 9 0.070 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 116 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.116A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 117 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:31:24 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_high_chan

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = 0.003 dB

Maximum value of Total (measured) = 0.127 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 118 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.080 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

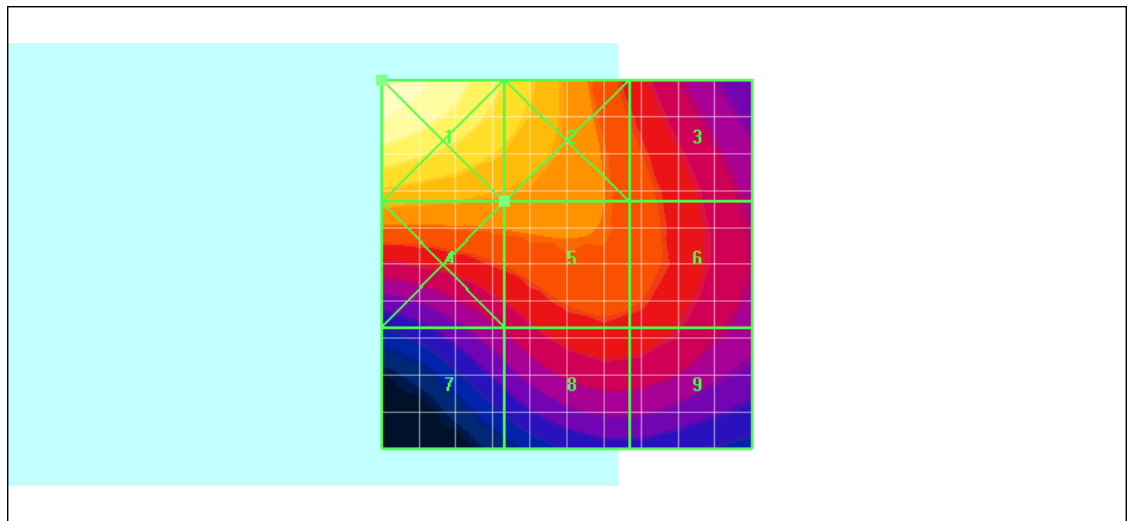
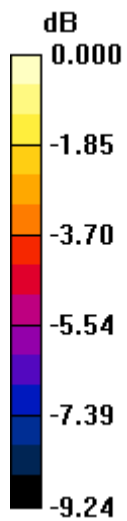
Reference Value = 0.092 A/m; Power Drift = 0.003 dB

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

Peak H-field in A/m

Grid 1 0.117 M4	Grid 2 0.094 M4	Grid 3 0.074 M4
Grid 4 0.084 M4	Grid 5 0.080 M4	Grid 6 0.074 M4
Grid 7 0.062 M4	Grid 8 0.070 M4	Grid 9 0.070 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 119 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.117A/m

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 120 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

Date/Time: 6/30/2010 12:37:14 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan_Telecoil

DUT: BlackBerry Smartphone; Type: SAMPLE

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid:

dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.102 A/m; Power Drift = 0.110 dB

Maximum value of Total (measured) = 0.101 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Measurement grid:

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 121 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.081 A/m

Probe Modulation Factor = 0.920

Device Reference Point: 0.000, 0.000, -6.30 mm

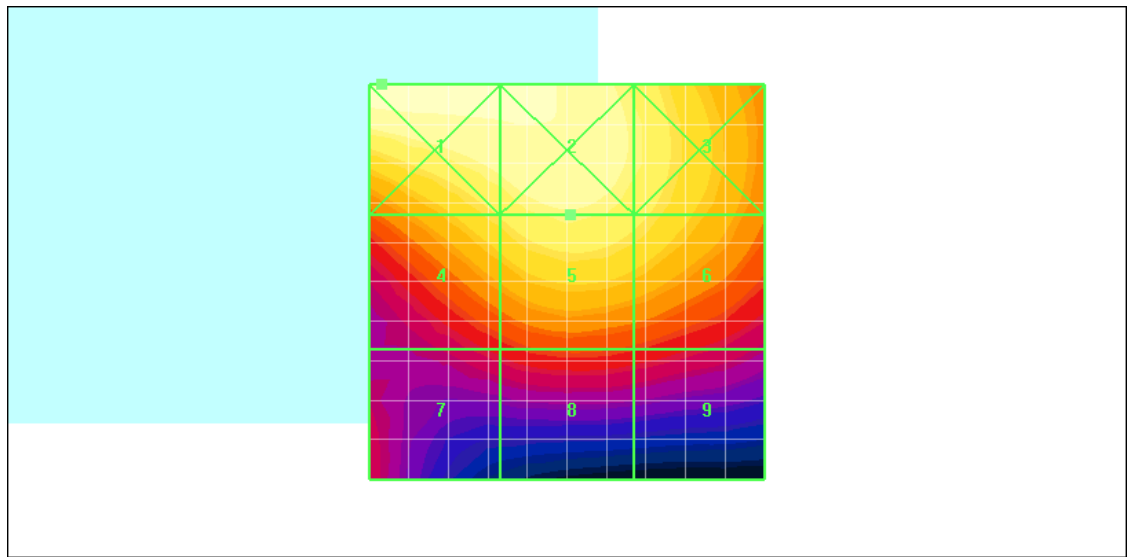
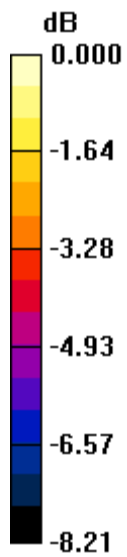
Reference Value = 0.102 A/m; Power Drift = 0.110 dB

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

Peak H-field in A/m

Grid 1 0.093 M4	Grid 2 0.090 M4	Grid 3 0.081 M4
Grid 4 0.077 M4	Grid 5 0.081 M4	Grid 6 0.078 M4
Grid 7 0.057 M4	Grid 8 0.061 M4	Grid 9 0.059 M4

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCM72UW		Page 122 (122)
Author Data Daoud Attayi	Dates of Test June 28-30, 2010	Report No RTS-1689-1007-19	FCC ID L6ARCM70UW



0 dB = 0.093A/m