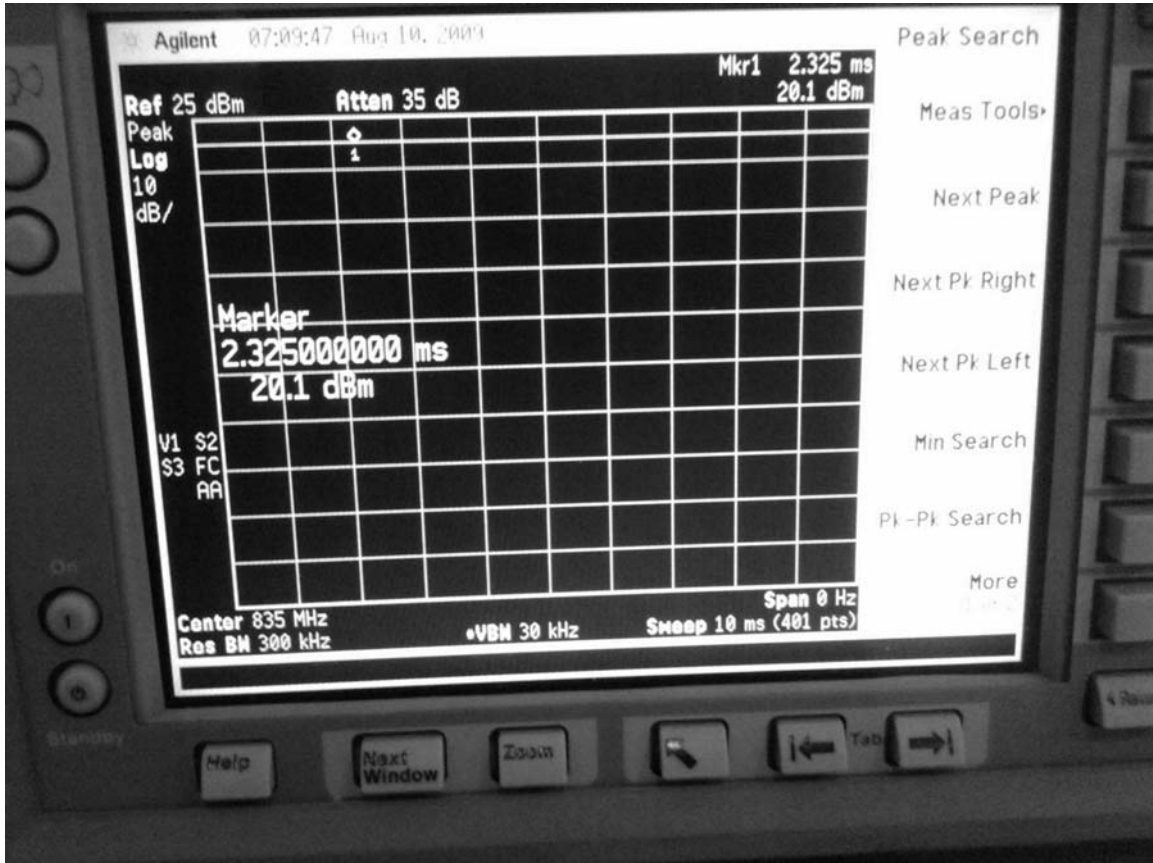
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 1 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

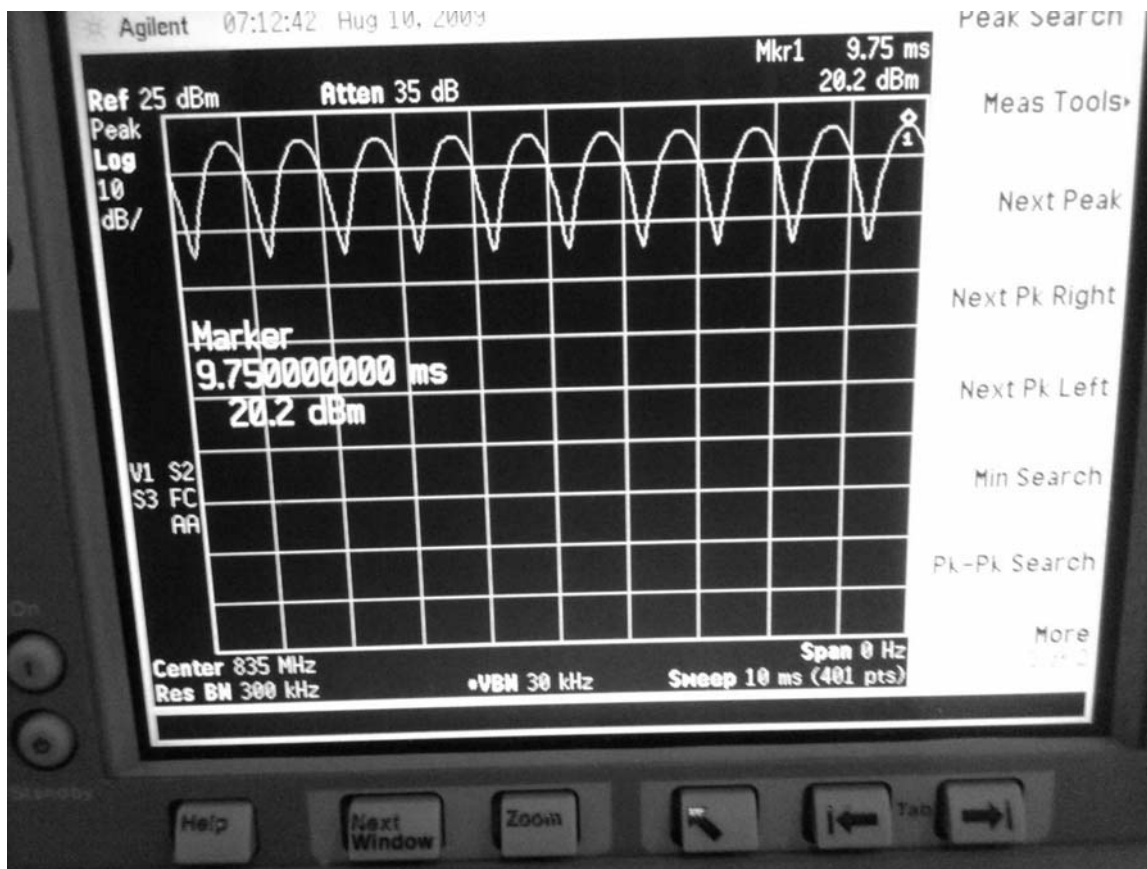
Annex A: Measurement data and plots

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



0 Hz Span CW Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 2 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



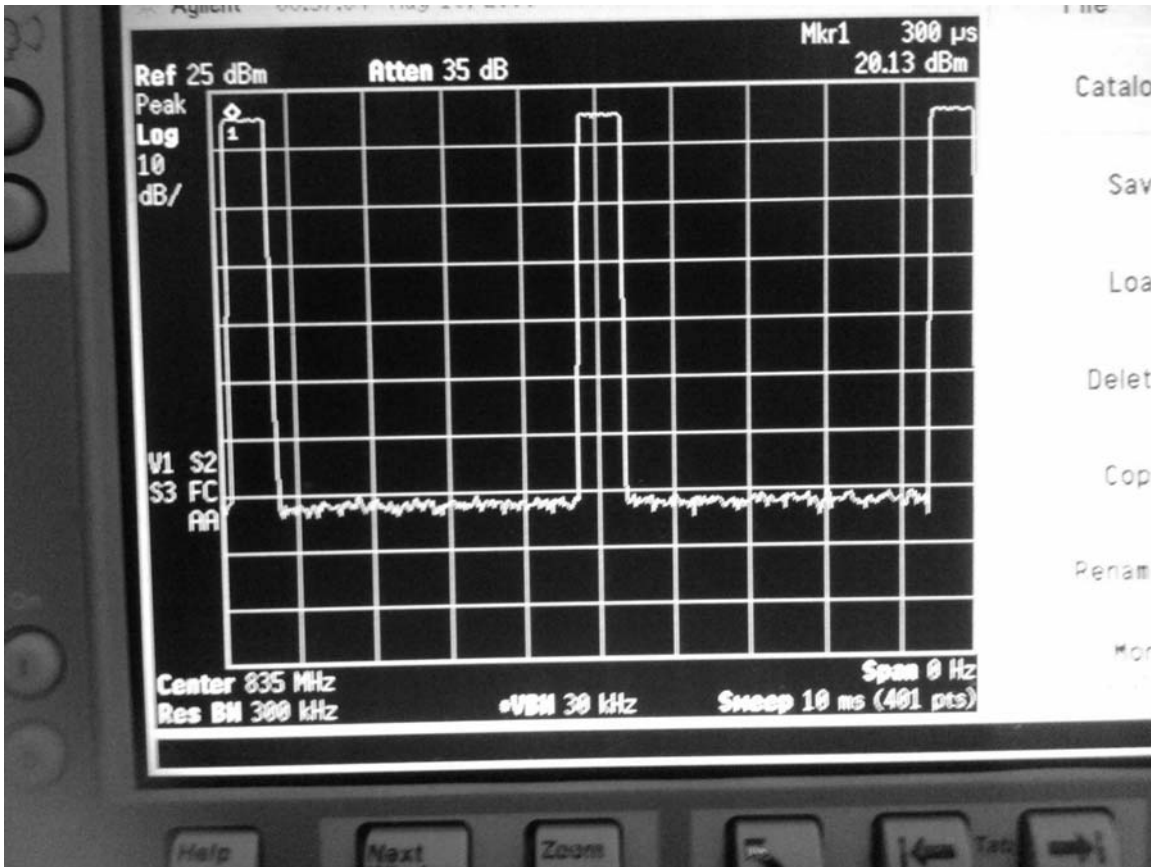
0 Hz Span 80% AM Plot (835MHz)

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 Hz Span GSM (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 4 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



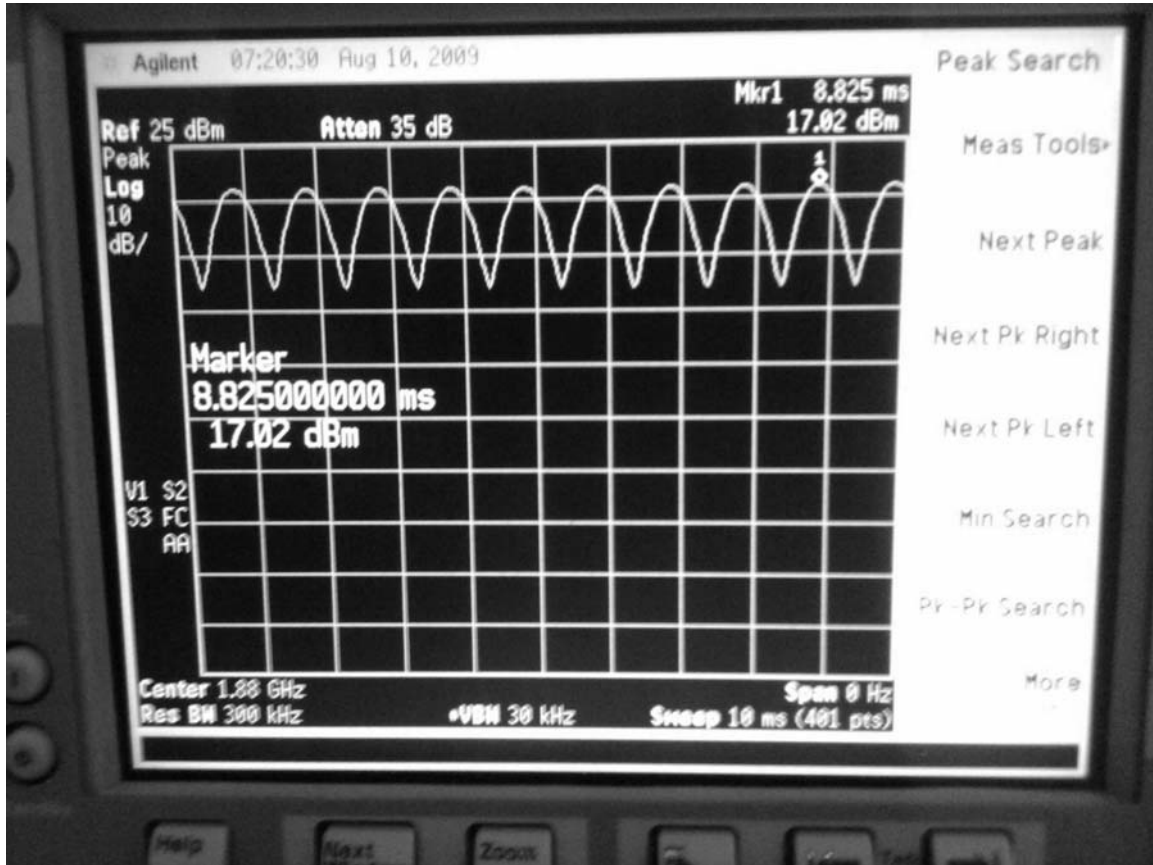
0 Hz Span CW Plot (1880MHz)

Author Data
Daoud Attayi

Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



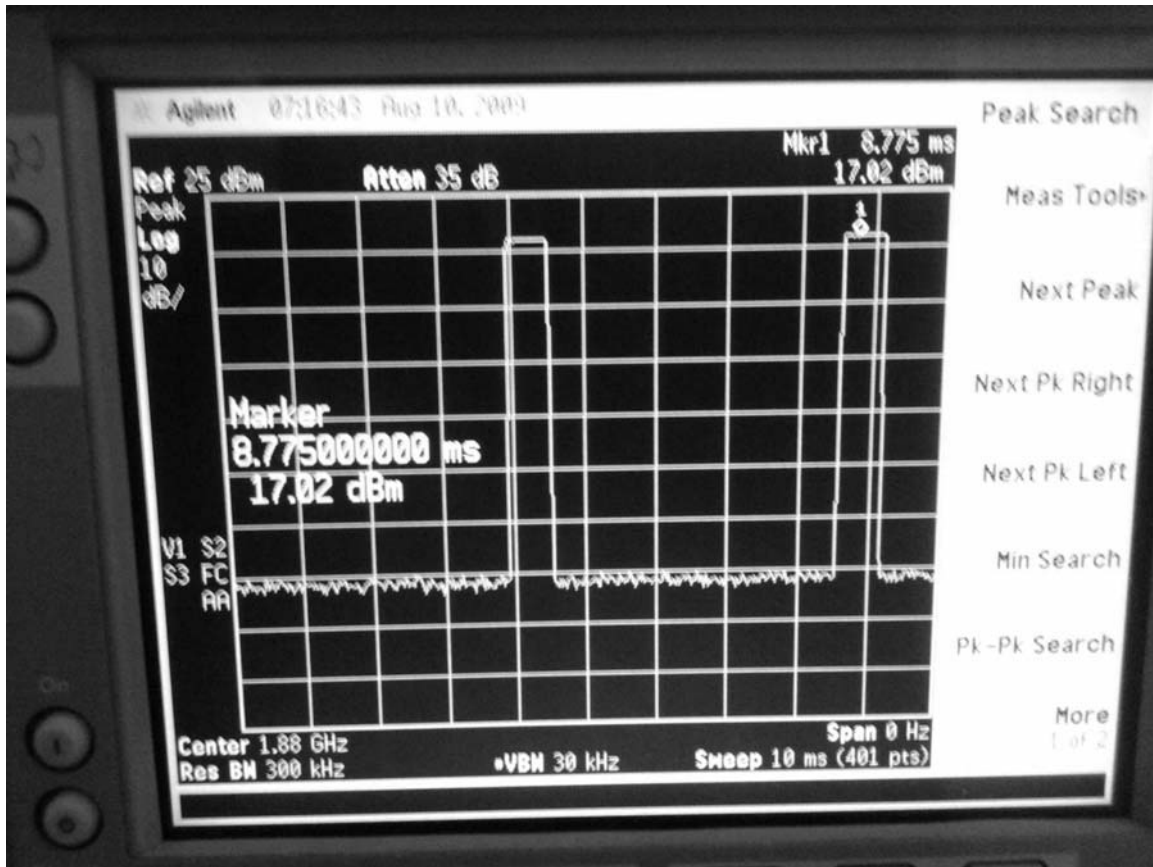
0 Hz Span 80% AM Plot (1880MHz)

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

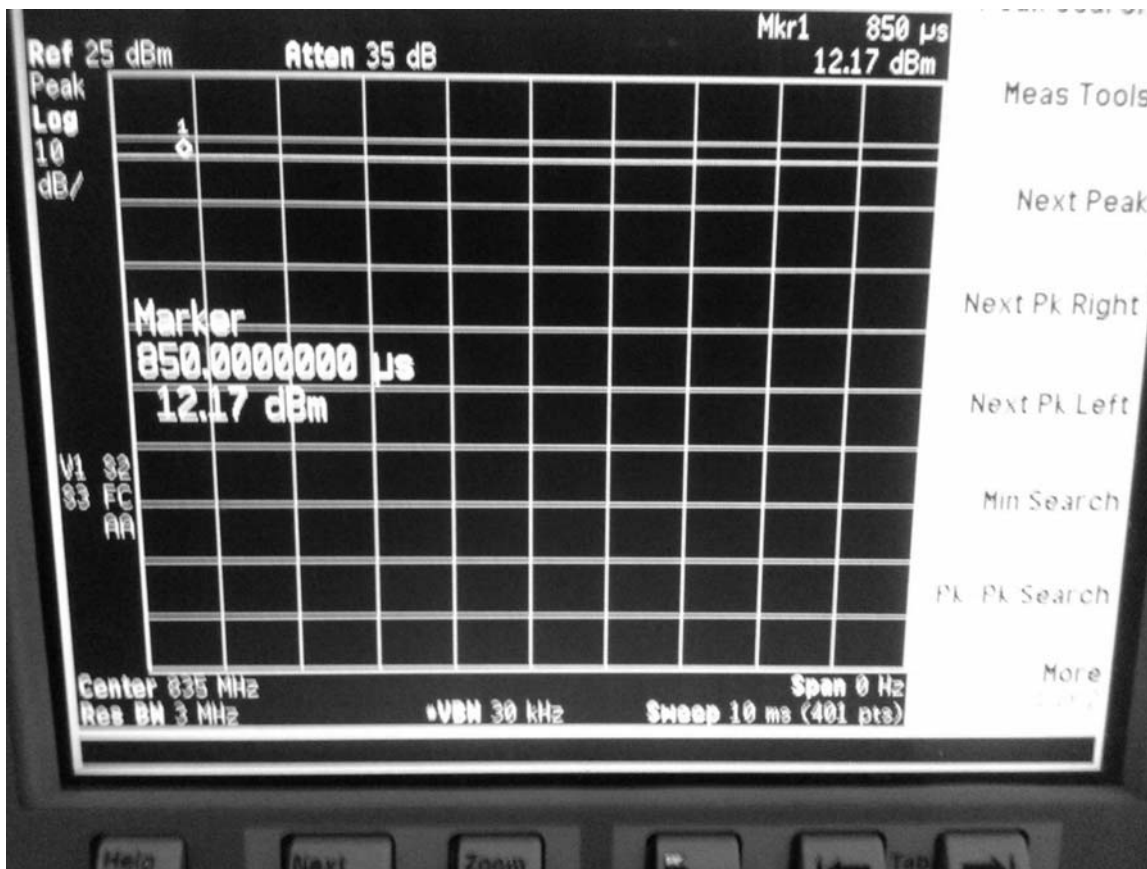
Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 Hz Span GSM (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 7 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



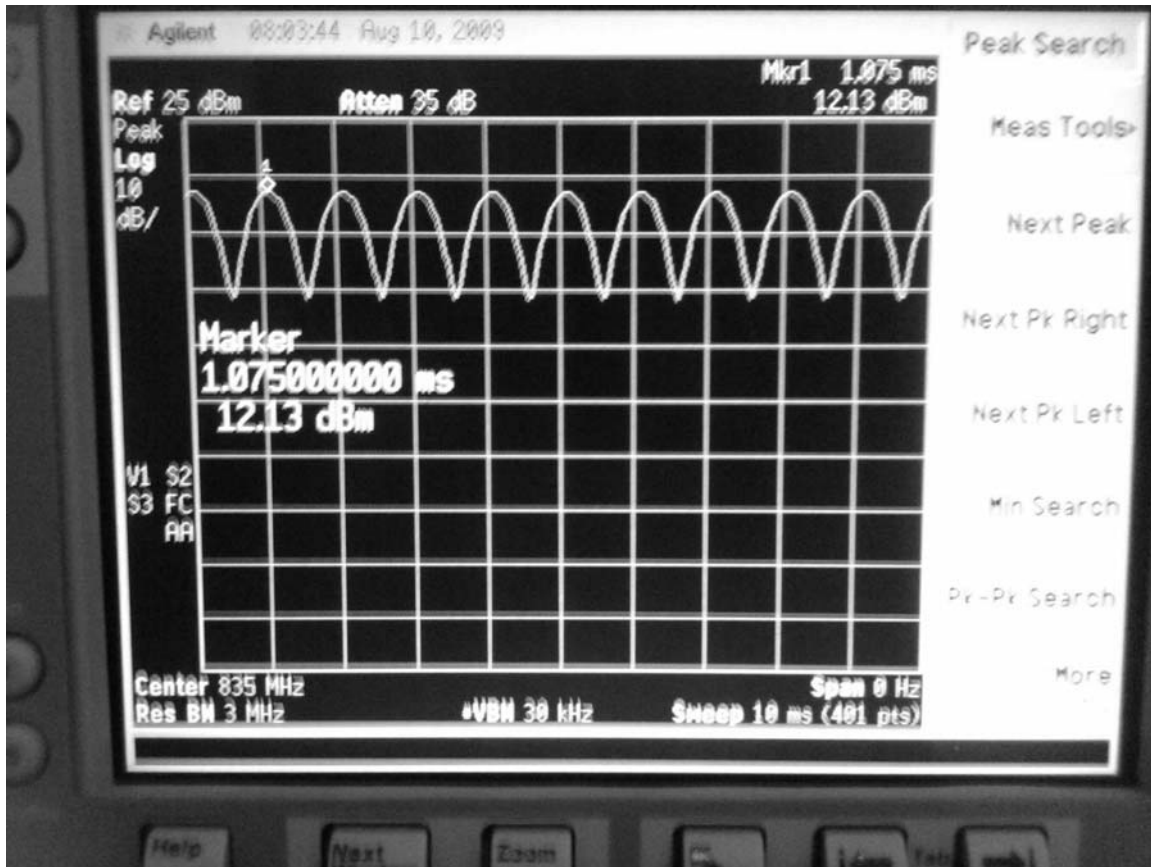
0 Hz Span CW Plot (835MHz)

Author Data
Daoud Attayi

Dates of Test
Aug 10-21, 2009

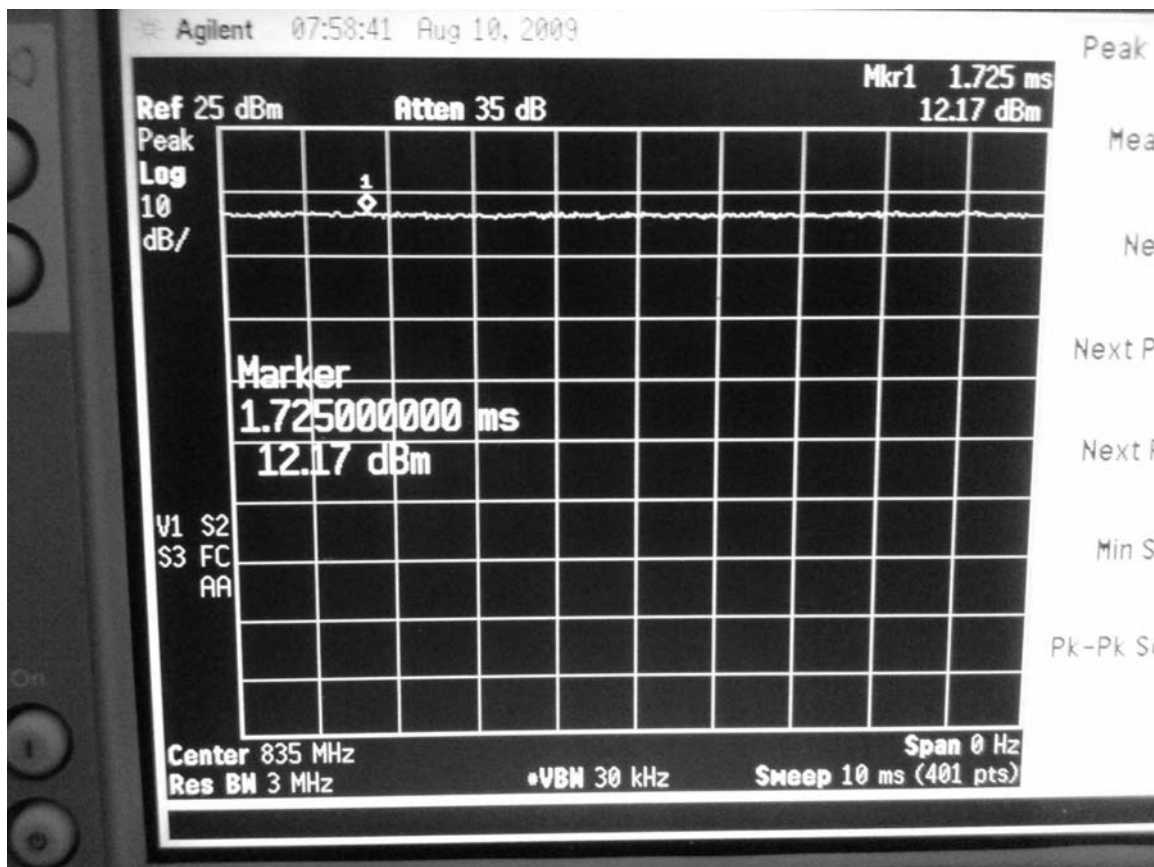
Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW




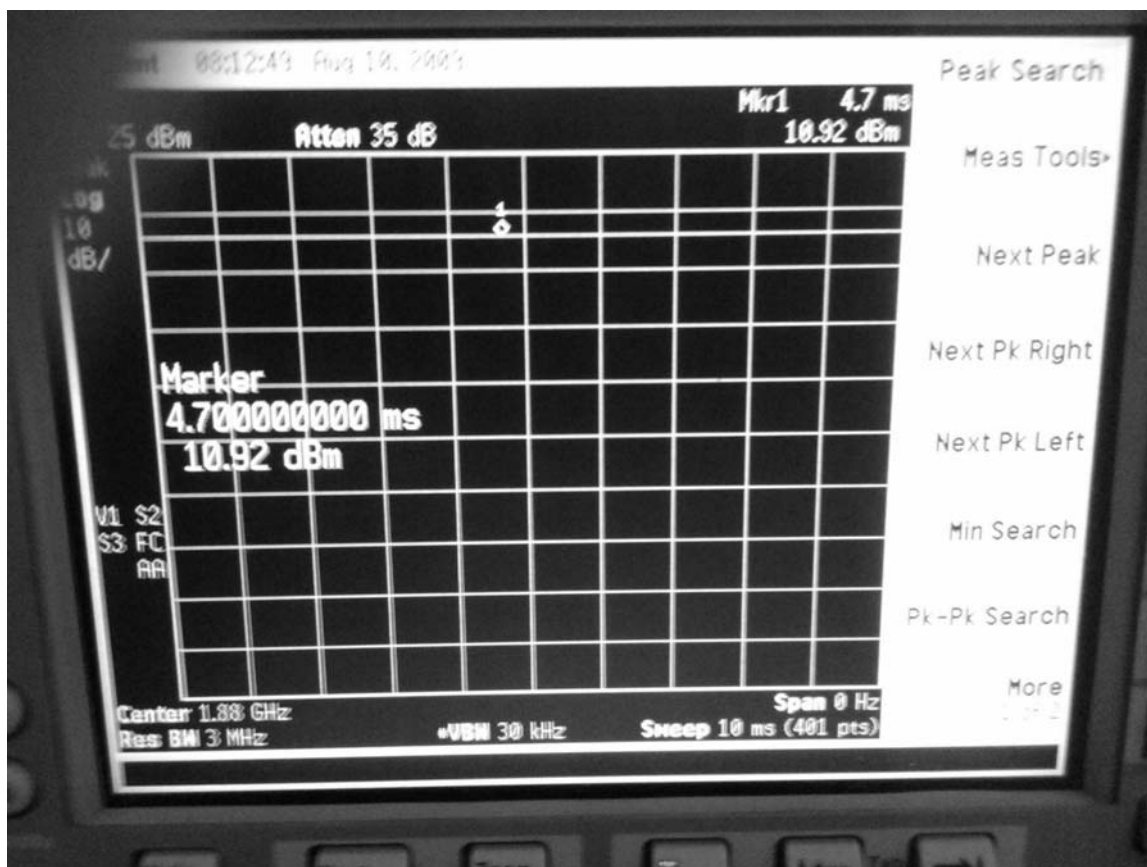
0 Hz Span 80% AM Plot (835MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 9 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



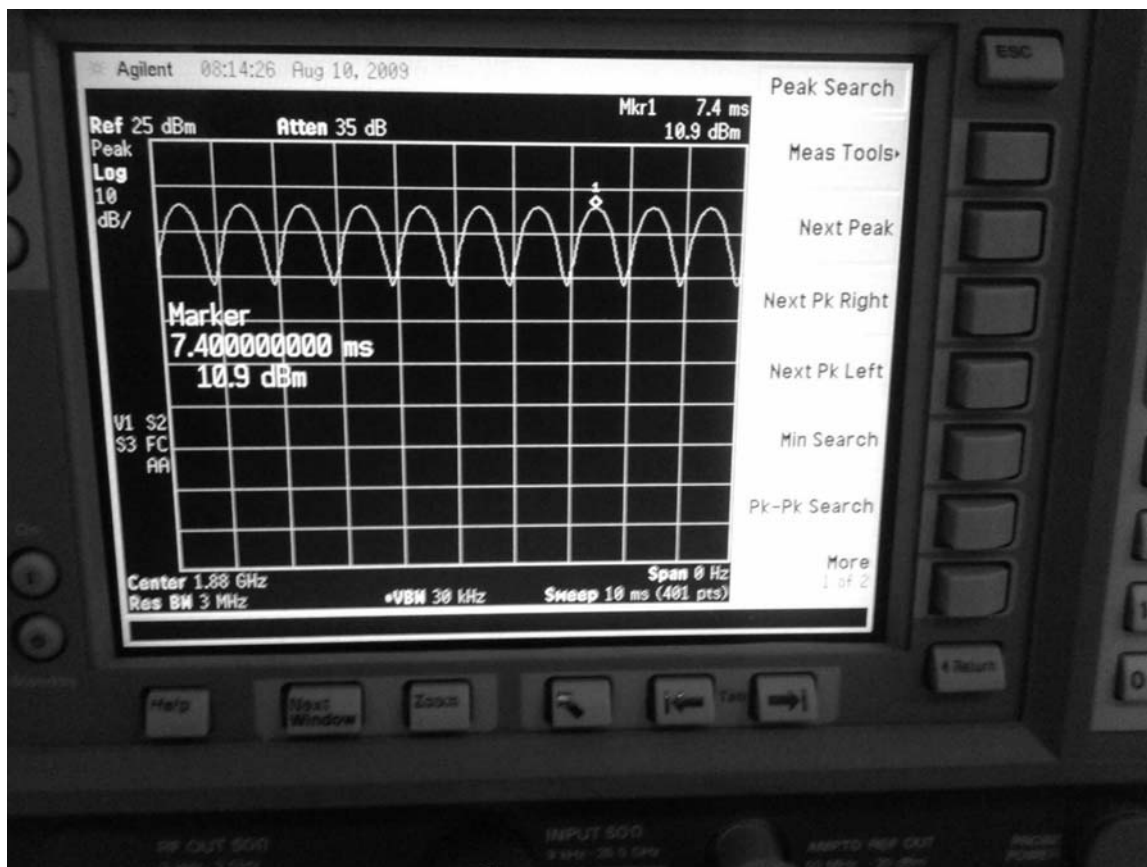
0 Hz Span CDMA (835MHz)

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		10 (180)
Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16	FCC ID L6ARCK70CW




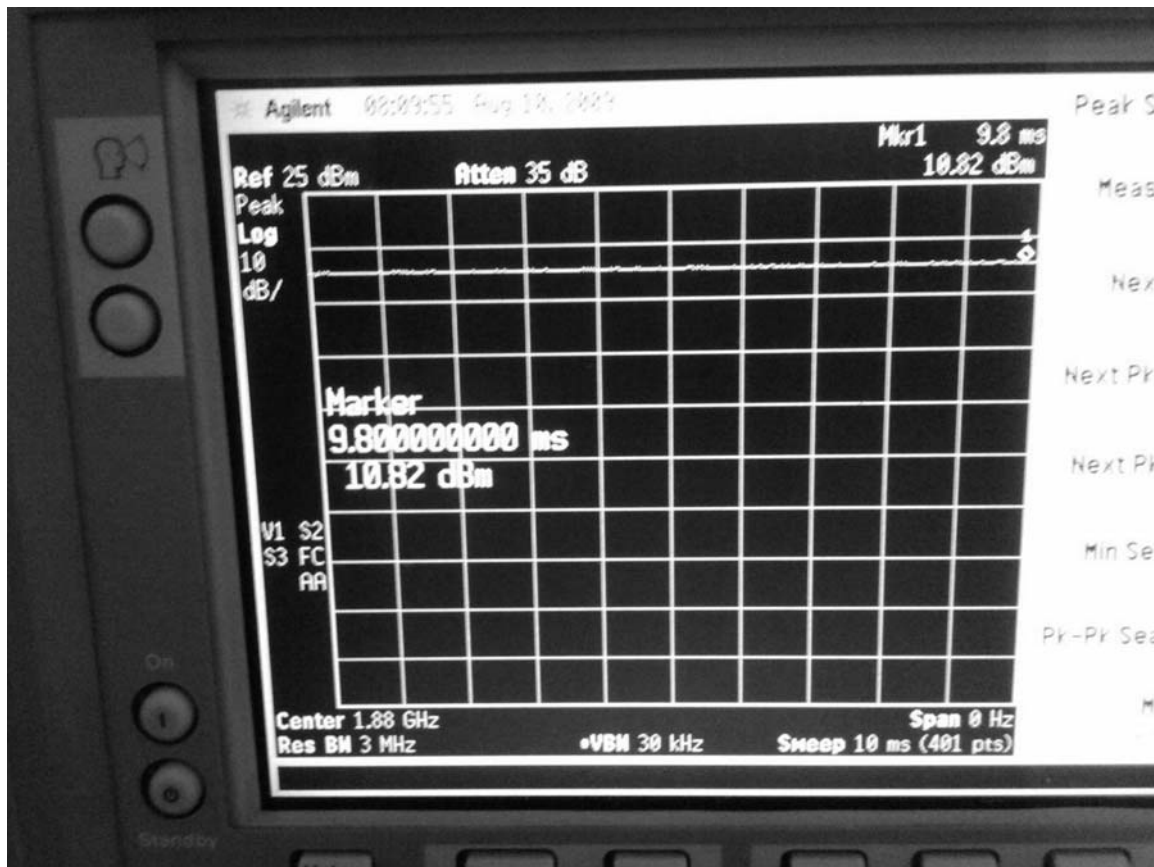
0 Hz Span CW Plot (1880MHz)

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 11 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16




0 Hz Span 80% AM Plot (1880MHz)


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 12 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



0 Hz Span CDMA (1880MHz)

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		13 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

A.2 Dipole validation and probe modulation factor plots

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		14 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 9:12:23 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW835_20.00dBm.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 102.2 V/m; Power Drift = 0.093 dB

Maximum value of Total (measured) = 160.7 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		15 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 162.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 102.2 V/m; Power Drift = 0.093 dB

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

Peak E-field in V/m

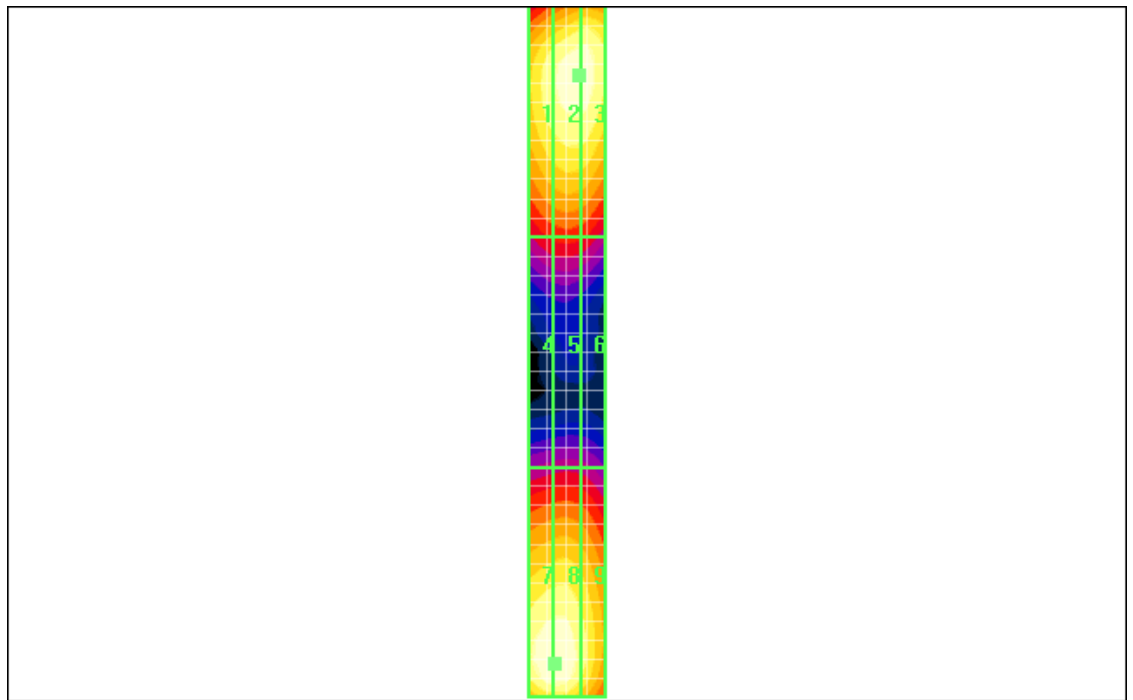
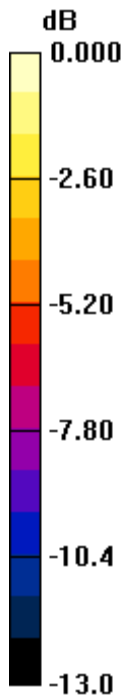
Grid 1	Grid 2	Grid 3
147.2 M4	158.1 M4	158.0 M4
Grid 4	Grid 5	Grid 6
83.4 M4	85.2 M4	83.5 M4
Grid 7	Grid 8	Grid 9
162.6 M4	162.8 M4	142.8 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 162.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		17 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 2:07:16 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW835_PMF_GSM.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 115.2 V/m; Power Drift = 0.034 dB

Maximum value of Total (measured) = 179.0 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		18 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 181.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 115.2 V/m; Power Drift = 0.034 dB

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

Peak E-field in V/m

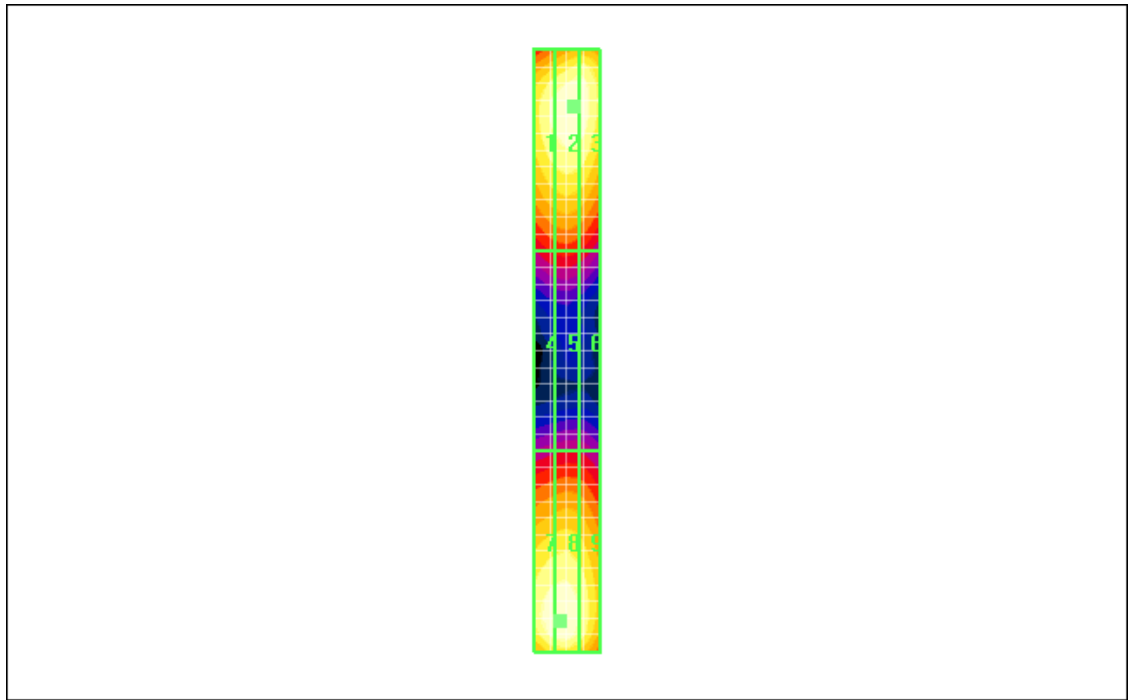
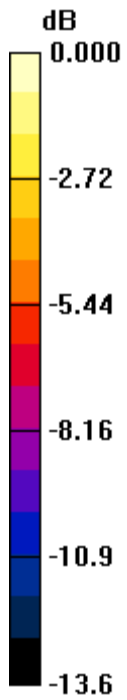
Grid 1	Grid 2	Grid 3
170.7 M4	178.6 M4	177.7 M4
Grid 4	Grid 5	Grid 6
90.7 M4	92.7 M4	88.8 M4
Grid 7	Grid 8	Grid 9
179.5 M4	181.3 M4	167.0 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 181.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		20 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 2:15:53 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_AM835_PMF_GSM.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 72.9 V/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 112.6 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 21 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

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

Maximum value of peak Total field = 113.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 72.9 V/m; Power Drift = -0.076 dB

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

Peak E-field in V/m

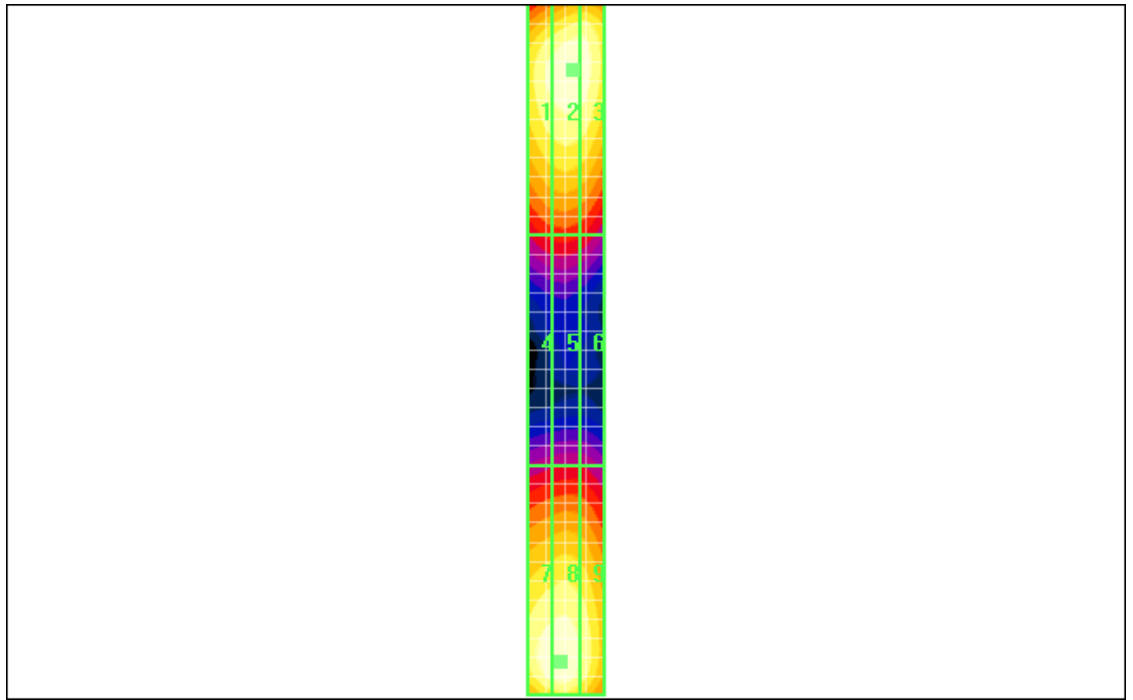
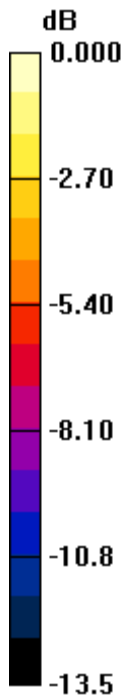
Grid 1 106.6 M4	Grid 2 110.8 M4	Grid 3 110.3 M4
Grid 4 57.8 M4	Grid 5 58.6 M4	Grid 6 56.5 M4
Grid 7 112.1 M4	Grid 8 113.6 M4	Grid 9 105.3 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 113.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		23 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 1:57:31 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_GSM835.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 38.5 V/m; Power Drift = 0.115 dB

Maximum value of Total (measured) = 61.9 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		24 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 62.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 38.5 V/m; Power Drift = 0.115 dB

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

Peak E-field in V/m

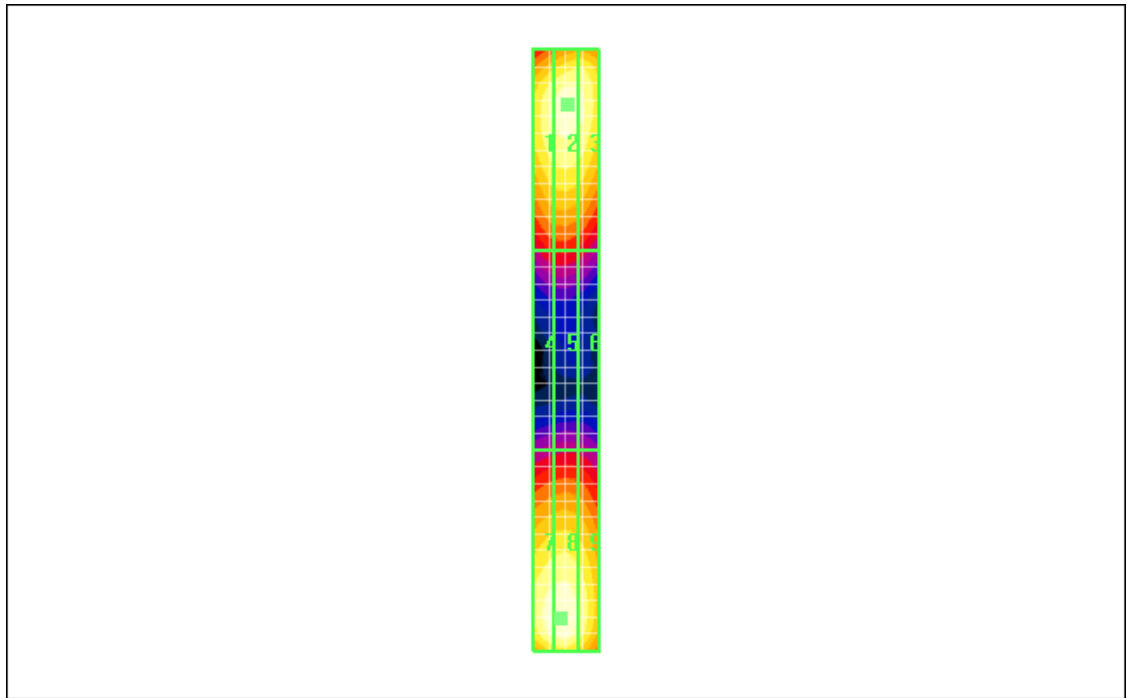
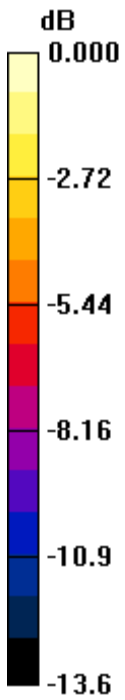
Grid 1	Grid 2	Grid 3
57.7 M4	60.0 M4	58.7 M4
Grid 4	Grid 5	Grid 6
31.1 M4	31.3 M4	29.8 M4
Grid 7	Grid 8	Grid 9
61.5 M4	62.4 M4	57.4 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 62.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		26 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 2:50:29 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW835_PMF_CDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 44.6 V/m; Power Drift = 0.124 dB

Maximum value of Total (measured) = 70.9 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		27 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 71.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.6 V/m; Power Drift = 0.124 dB

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

Peak E-field in V/m

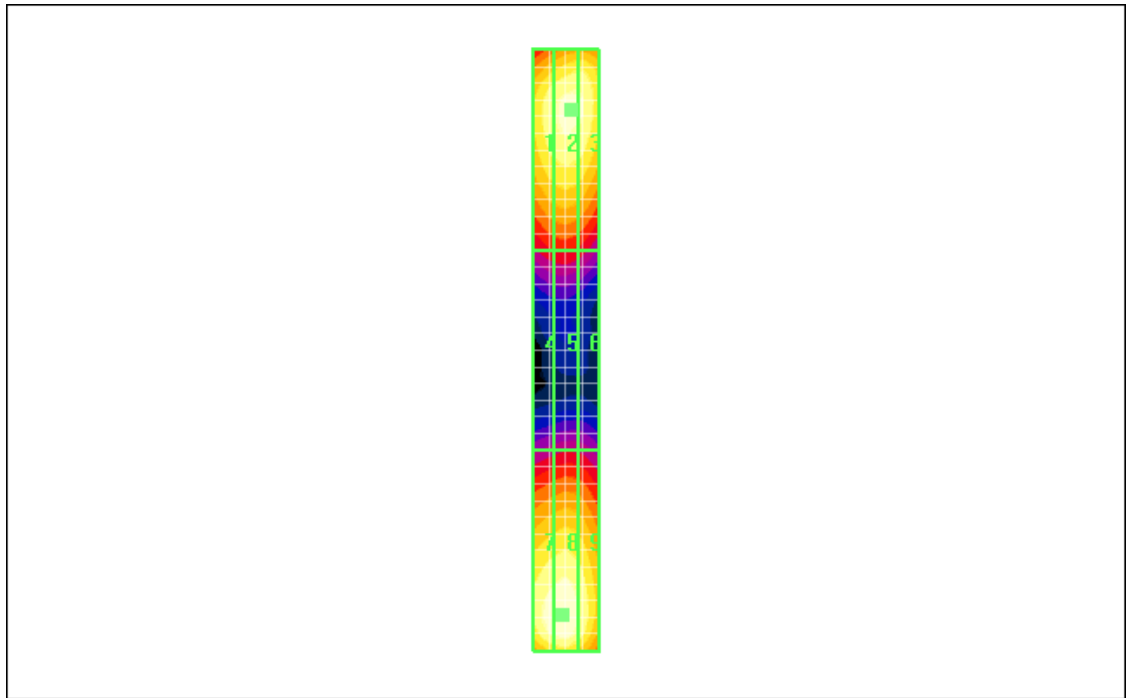
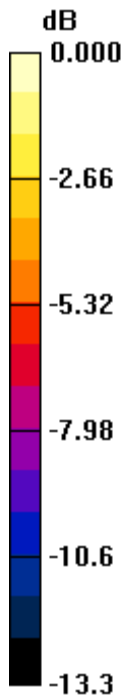
Grid 1	Grid 2	Grid 3
64.2 M4	66.8 M4	66.3 M4
Grid 4	Grid 5	Grid 6
35.3 M4	35.8 M4	34.4 M4
Grid 7	Grid 8	Grid 9
69.9 M4	71.3 M4	66.2 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 71.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		29 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 3:00:52 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_AM835_PMF_CDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 29.9 V/m; Power Drift = -0.094 dB

Maximum value of Total (measured) = 46.6 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		30 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 47.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 29.9 V/m; Power Drift = -0.094 dB

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

Peak E-field in V/m

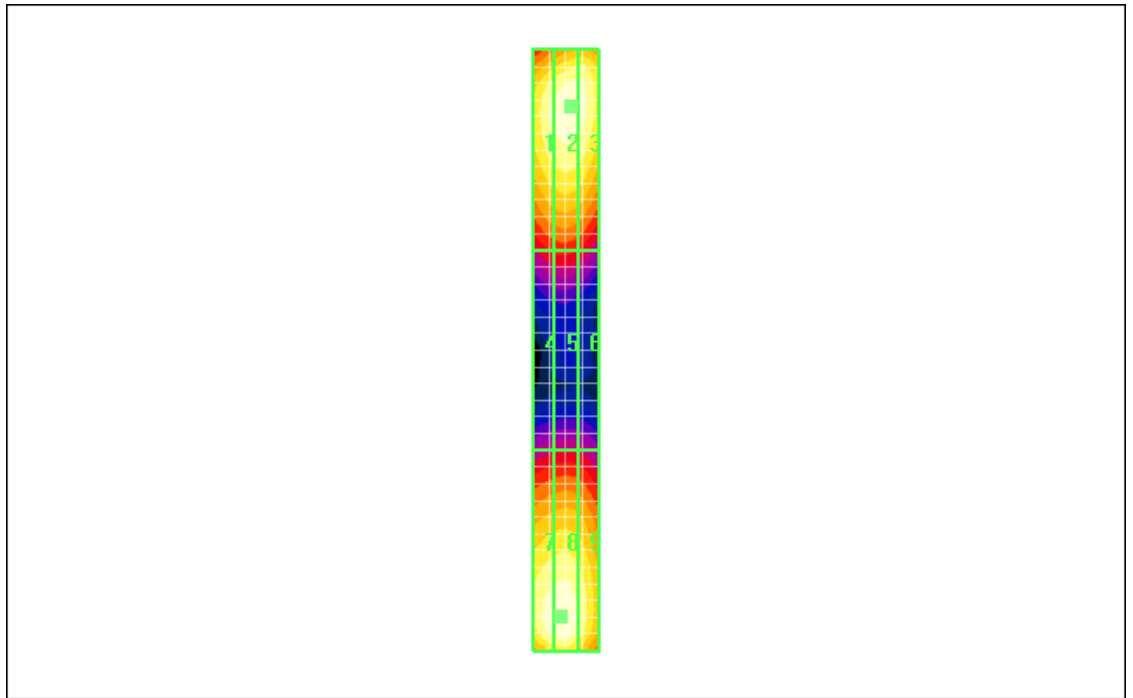
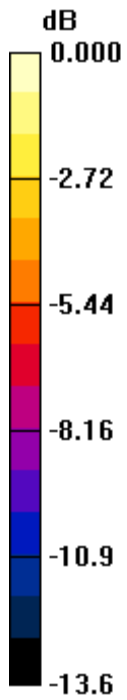
Grid 1	Grid 2	Grid 3
43.8 M4	45.7 M4	45.4 M4
Grid 4	Grid 5	Grid 6
23.4 M4	23.8 M4	22.9 M4
Grid 7	Grid 8	Grid 9
46.2 M4	47.0 M4	43.1 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 47.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		32 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 3:19:19 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CDMA835.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF E Dipole

Communication System: CDMA 800; 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 41.3 V/m; Power Drift = -0.051 dB

Maximum value of Total (measured) = 65.5 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		33 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 66.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 41.3 V/m; Power Drift = -0.051 dB

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

Peak E-field in V/m

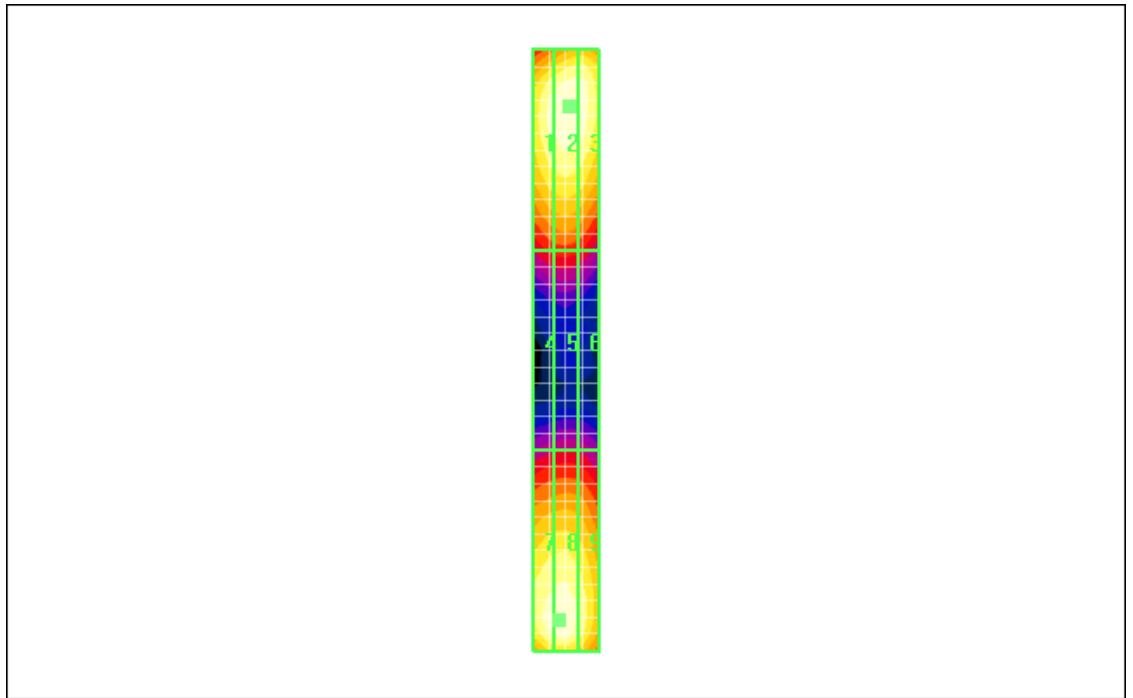
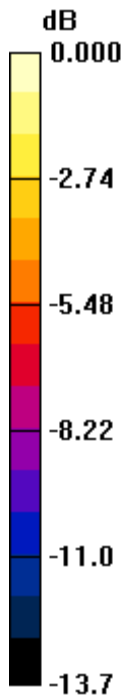
Grid 1	Grid 2	Grid 3
63.3 M4	66.0 M4	65.3 M4
Grid 4	Grid 5	Grid 6
33.4 M4	33.9 M4	32.8 M4
Grid 7	Grid 8	Grid 9
64.7 M4	65.5 M4	60.3 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 66.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		35 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 9:21:32 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 149.6 V/m; Power Drift = -0.059 dB

Maximum value of Total (measured) = 127.9 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		36 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 129.5 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 149.6 V/m; Power Drift = -0.059 dB

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

Peak E-field in V/m

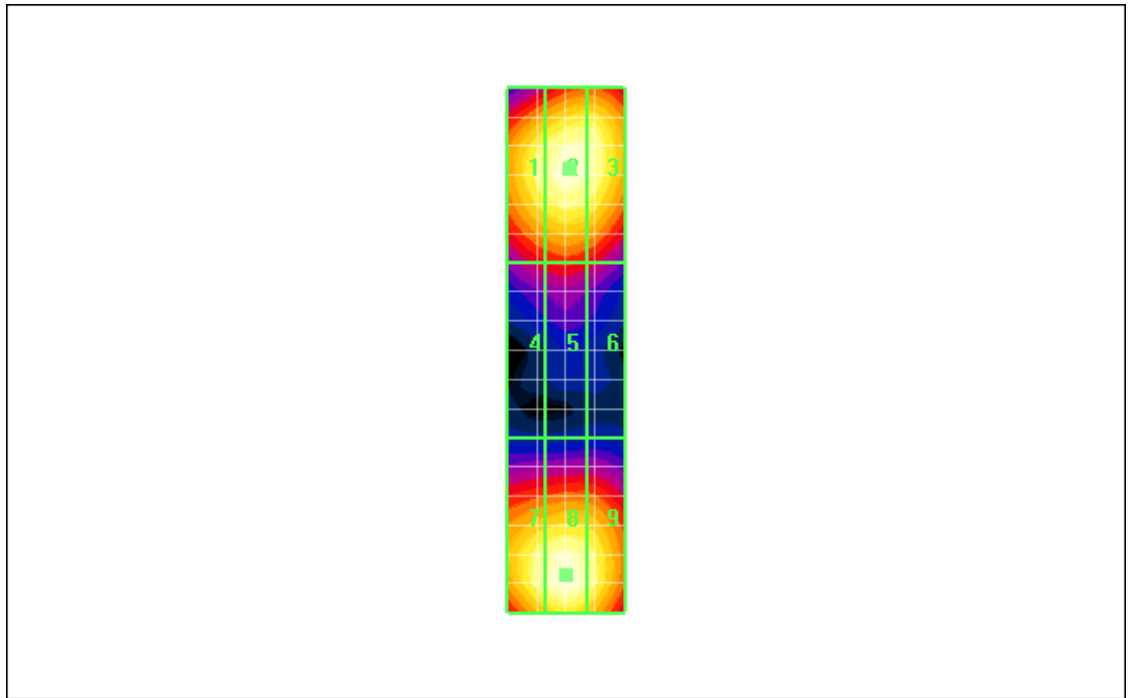
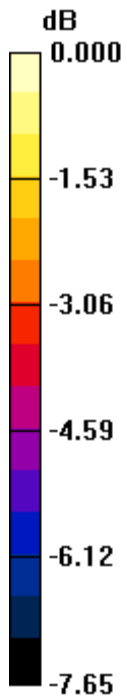
Grid 1	Grid 2	Grid 3
121.5 M2	126.5 M2	125.1 M2
Grid 4	Grid 5	Grid 6
85.1 M3	88.0 M3	84.9 M3
Grid 7	Grid 8	Grid 9
125.0 M2	129.5 M2	123.9 M2

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 129.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		38 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 12:04:32 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 108.0 V/m; Power Drift = -0.043 dB

Maximum value of Total (measured) = 94.2 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 39 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 95.7 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 108.0 V/m; Power Drift = -0.043 dB

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

Peak E-field in V/m

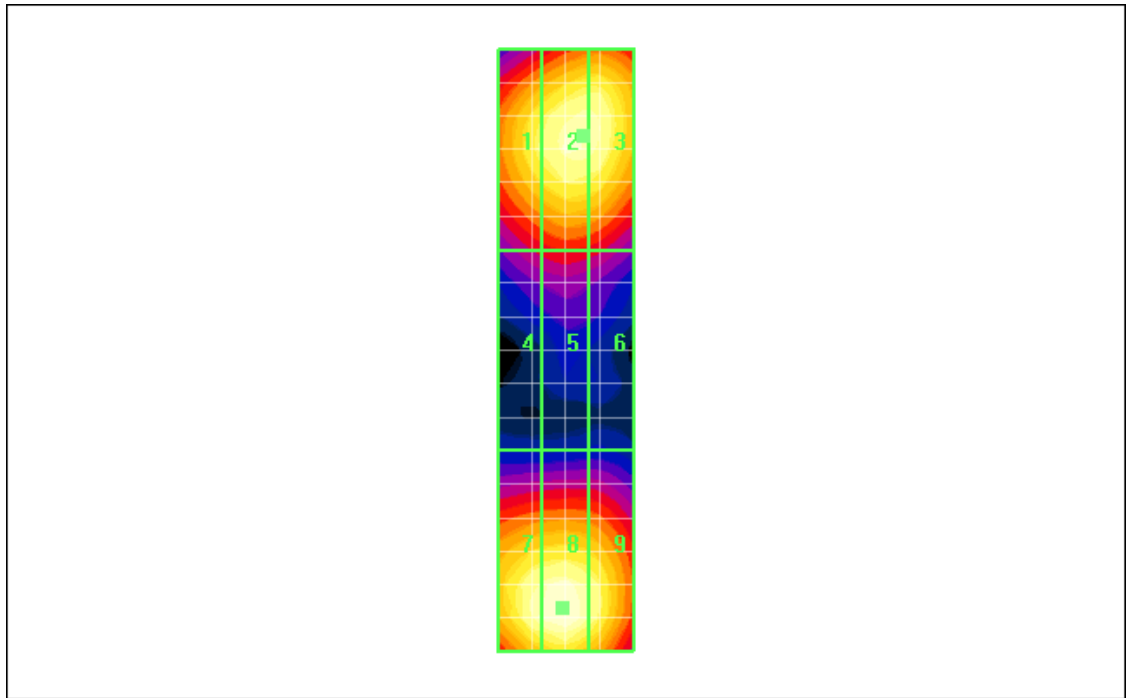
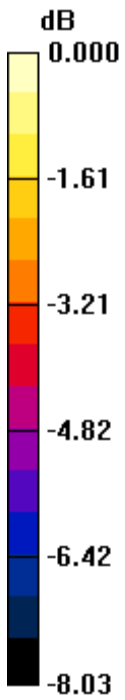
Grid 1 87.0 M3	Grid 2 92.0 M3	Grid 3 91.8 M3
Grid 4 60.6 M4	Grid 5 63.2 M3	Grid 6 61.3 M4
Grid 7 93.7 M3	Grid 8 95.7 M3	Grid 9 90.7 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 95.7V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		41 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 12:09:30 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_AM_1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 69.5 V/m; Power Drift = -0.045 dB

Maximum value of Total (measured) = 60.3 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 42 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 61.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 69.5 V/m; Power Drift = -0.045 dB

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

Peak E-field in V/m

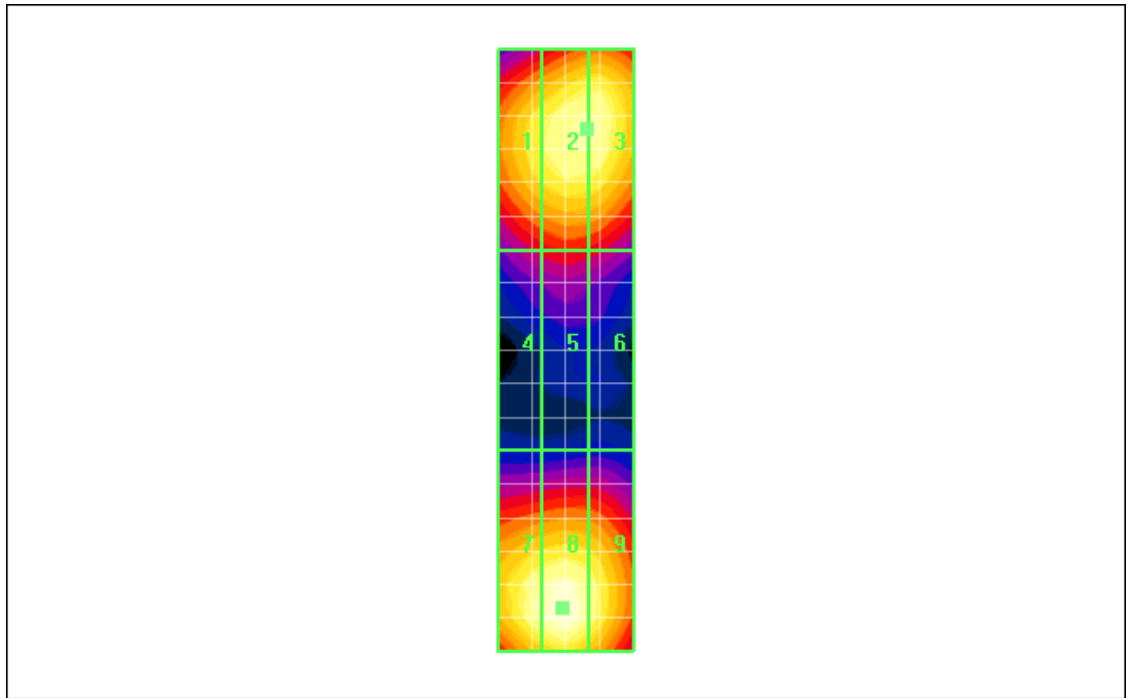
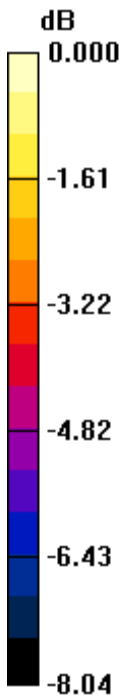
Grid 1 54.6 M4	Grid 2 58.3 M4	Grid 3 58.3 M4
Grid 4 38.6 M4	Grid 5 40.4 M4	Grid 6 39.3 M4
Grid 7 59.2 M4	Grid 8 61.2 M4	Grid 9 57.4 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 61.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		44 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 11:48:16 AM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_GSM1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 37.7 V/m; Power Drift = -0.035 dB

Maximum value of Total (measured) = 32.7 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 45 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 33.2 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 37.7 V/m; Power Drift = -0.035 dB

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

Peak E-field in V/m

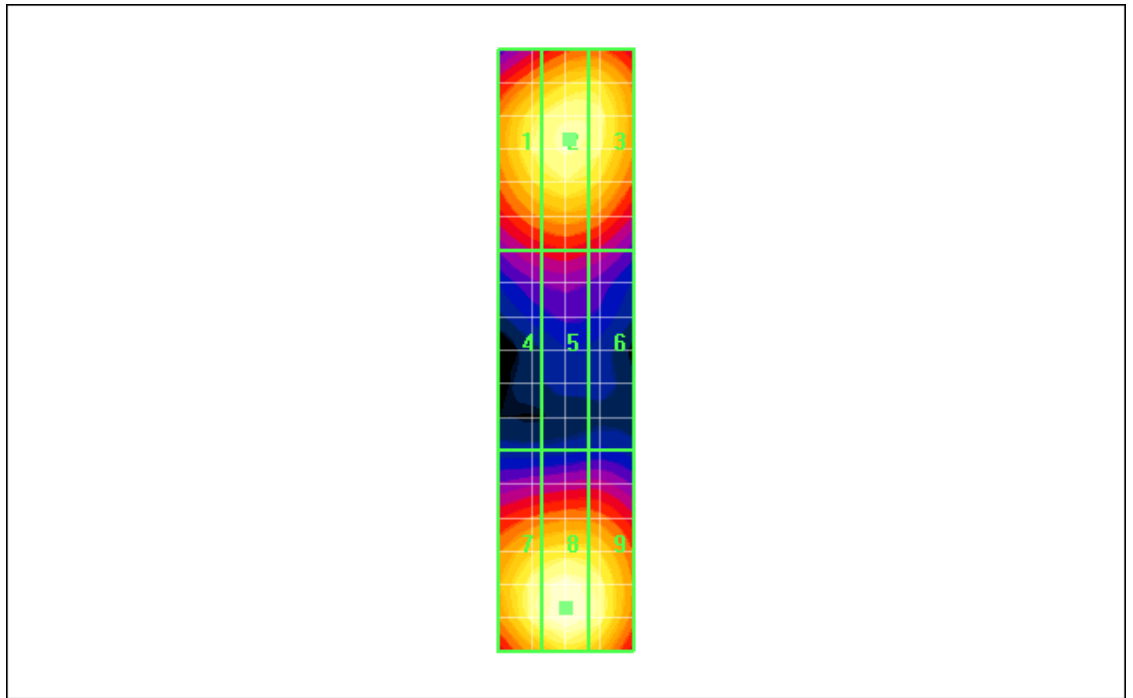
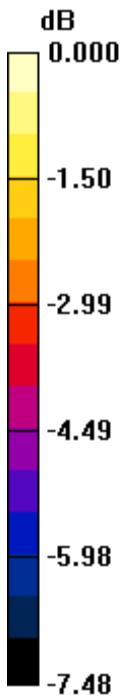
Grid 1 30.7 M4	Grid 2 31.7 M4	Grid 3 31.2 M4
Grid 4 21.6 M4	Grid 5 22.2 M4	Grid 6 21.4 M4
Grid 7 32.1 M4	Grid 8 33.2 M4	Grid 9 32.2 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 33.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		47 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 12:28:30 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CW1880_PMF_CDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 54.2 V/m; Power Drift = -0.155 dB

Maximum value of Total (measured) = 46.9 V/m

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		48 (180)
Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16	FCC ID L6ARCK70CW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 47.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 54.2 V/m; Power Drift = -0.155 dB

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

Peak E-field in V/m

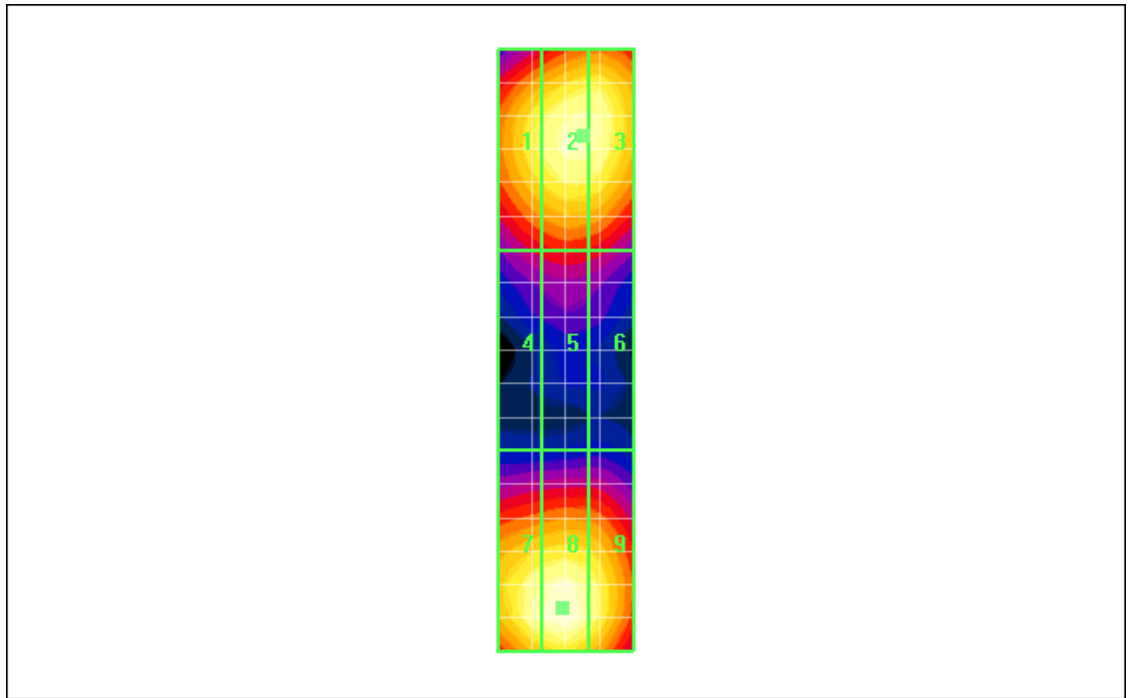
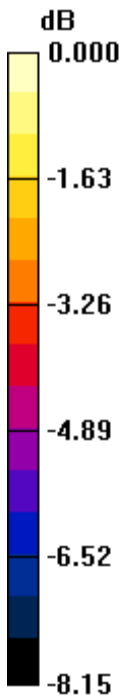
Grid 1	Grid 2	Grid 3
43.3 M4	45.7 M4	45.5 M4
Grid 4	Grid 5	Grid 6
30.1 M4	31.4 M4	30.7 M4
Grid 7	Grid 8	Grid 9
46.2 M4	47.6 M4	44.9 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 47.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		50 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 12:32:52 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_AM_1880_PMF_CDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 34.8 V/m; Power Drift = -0.220 dB

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

E Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		51 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 30.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.8 V/m; Power Drift = -0.220 dB

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

Peak E-field in V/m

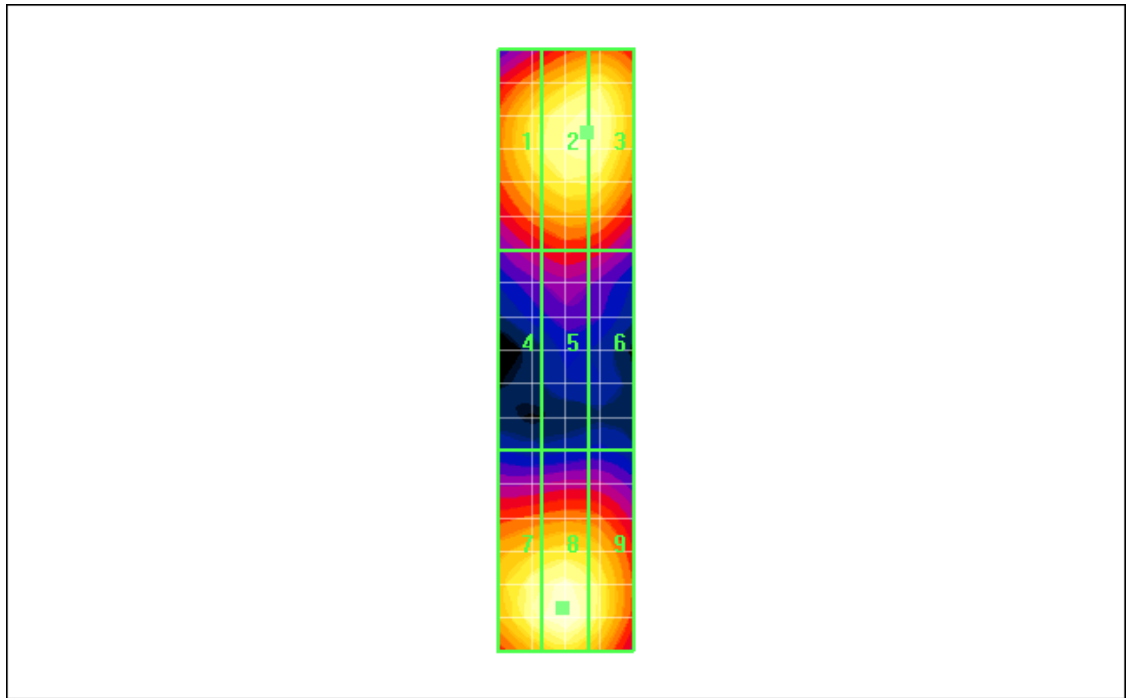
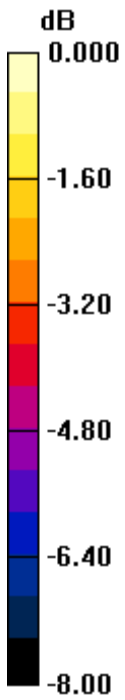
Grid 1	Grid 2	Grid 3
27.4 M4	29.3 M4	29.2 M4
Grid 4	Grid 5	Grid 6
19.1 M4	20.2 M4	19.6 M4
Grid 7	Grid 8	Grid 9
29.4 M4	30.4 M4	28.6 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 30.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		53 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 10/08/2009 1:49:49 PM

Test Laboratory: RTS

File Name: [HAC_E_Dipole_CDMA1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF E Dipole

Communication System: CDMA 1900; 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 51.9 V/m; Power Drift = 0.138 dB

Maximum value of Total (measured) = 45.1 V/m

E Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 54 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 45.6 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 51.9 V/m; Power Drift = 0.138 dB

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

Peak E-field in V/m

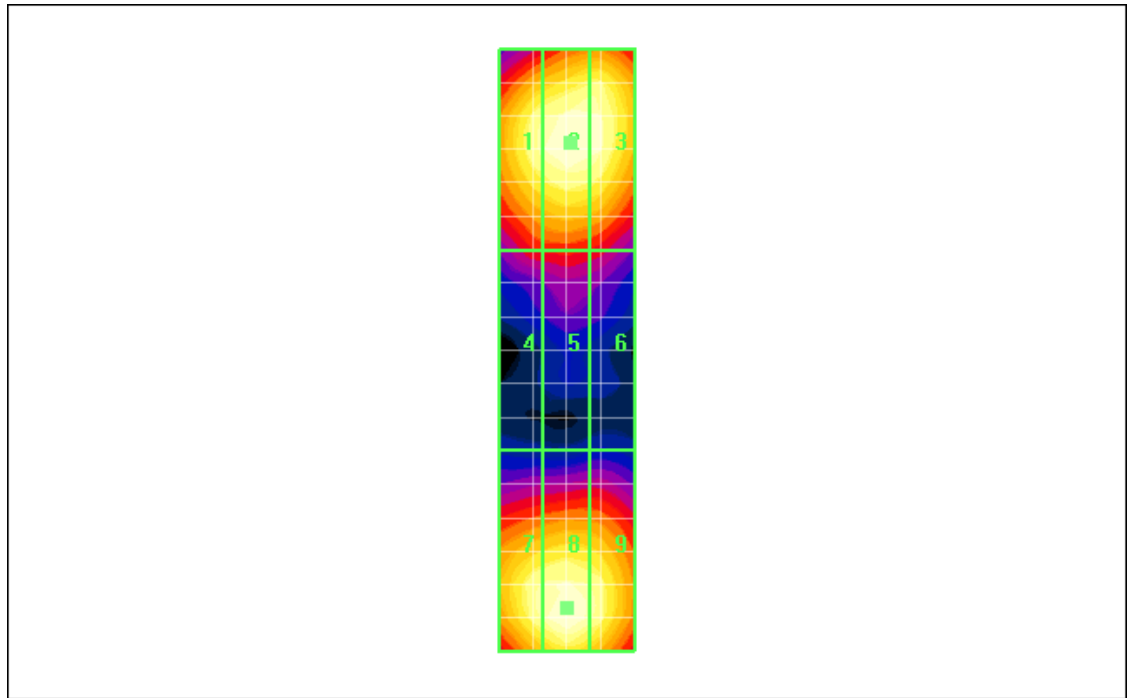
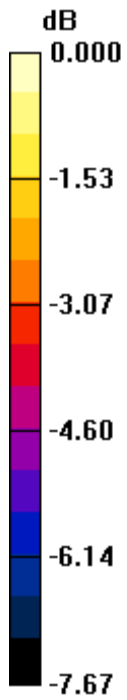
Grid 1 43.8 M4	Grid 2 44.9 M4	Grid 3 44.5 M4
Grid 4 30.9 M4	Grid 5 31.1 M4	Grid 6 30.3 M4
Grid 7 44.1 M4	Grid 8 45.6 M4	Grid 9 43.8 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 45.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		56 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:02:03 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW835_20.00dBm.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.475 A/m; Power Drift = 0.081 dB

Maximum value of Total (measured) = 0.455 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		57 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.455 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.475 A/m; Power Drift = 0.081 dB

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

Peak H-field in A/m

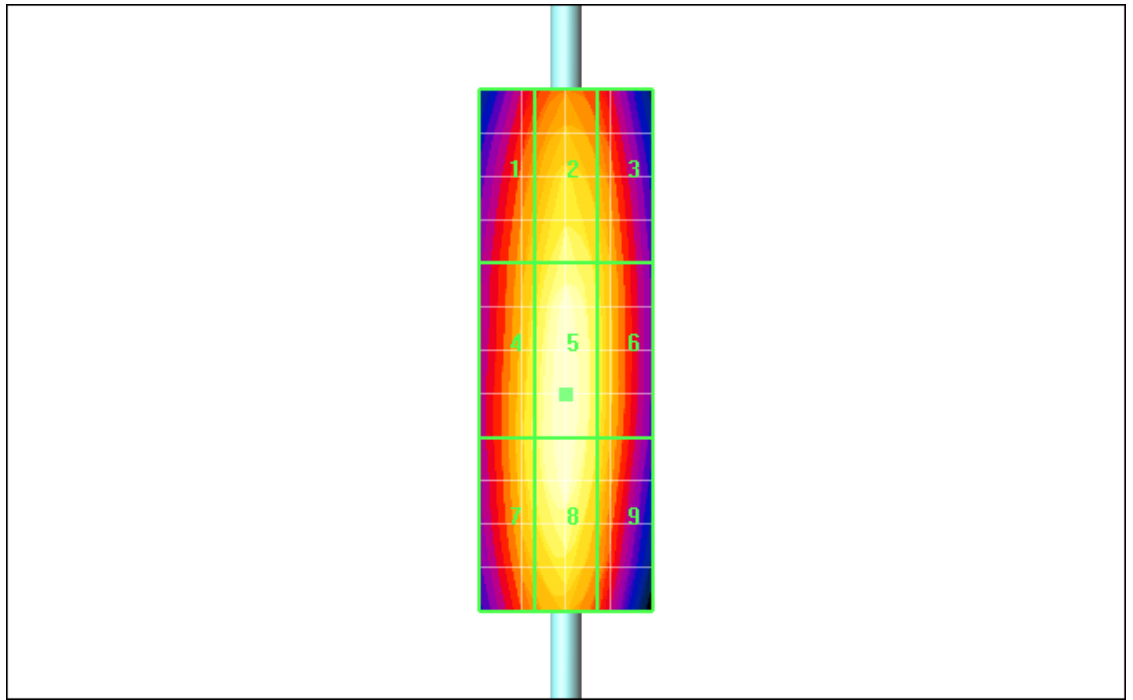
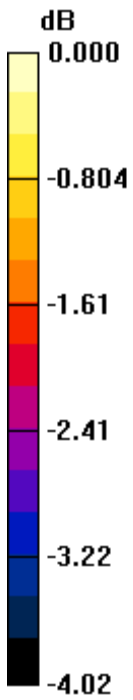
Grid 1	Grid 2	Grid 3
0.416 M4	0.435 M4	0.423 M4
Grid 4	Grid 5	Grid 6
0.433 M4	0.455 M4	0.432 M4
Grid 7	Grid 8	Grid 9
0.433 M4	0.454 M4	0.428 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.455A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		59 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:08:31 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW835_PMF_GSM.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.508 A/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 0.477 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		60 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.478 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.508 A/m; Power Drift = -0.030 dB

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

Peak H-field in A/m

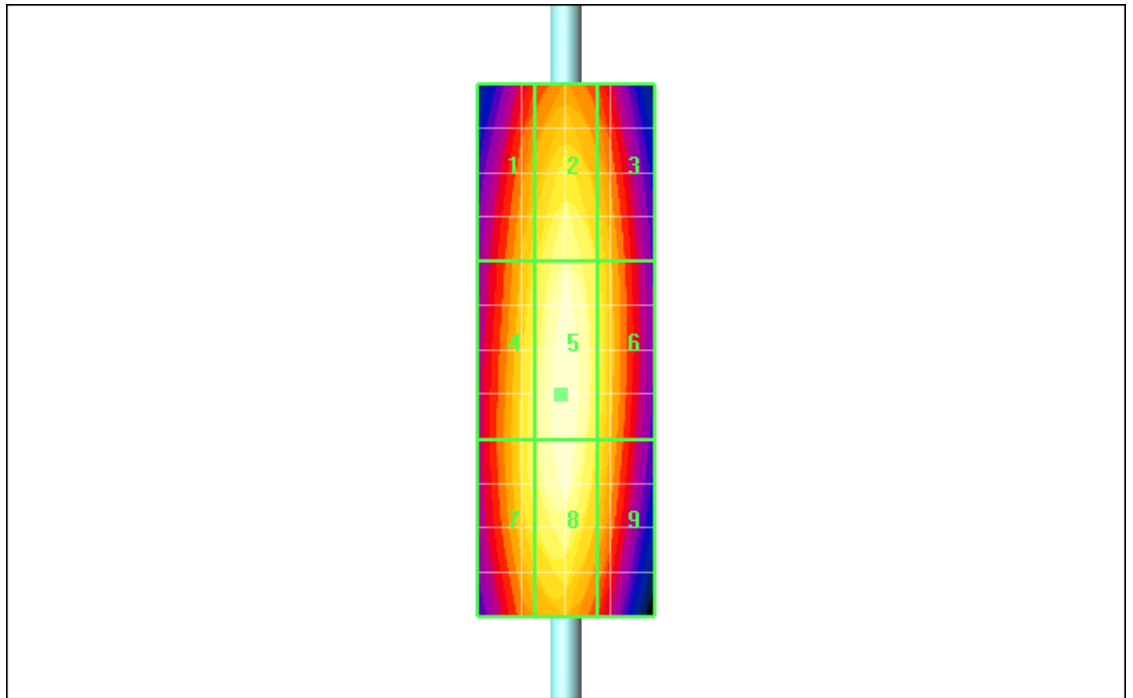
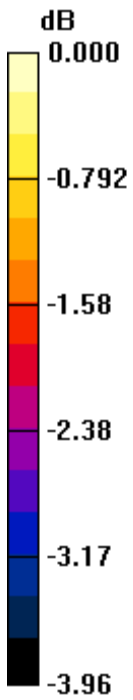
Grid 1	Grid 2	Grid 3
0.444 M4	0.464 M4	0.448 M4
Grid 4	Grid 5	Grid 6
0.460 M4	0.478 M4	0.455 M4
Grid 7	Grid 8	Grid 9
0.460 M4	0.475 M4	0.449 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.478A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		62 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:19:09 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_AM835_PMF_GSM.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.343 A/m; Power Drift = 0.025 dB

Maximum value of Total (measured) = 0.322 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		63 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.322 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.343 A/m; Power Drift = 0.025 dB

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

Peak H-field in A/m

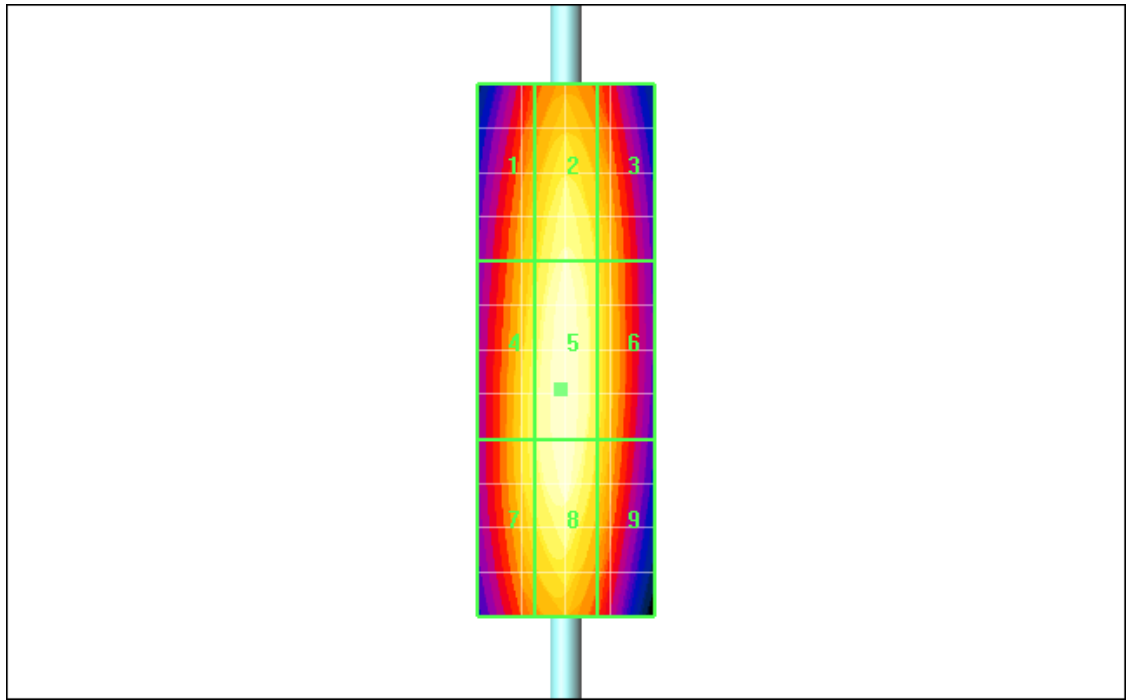
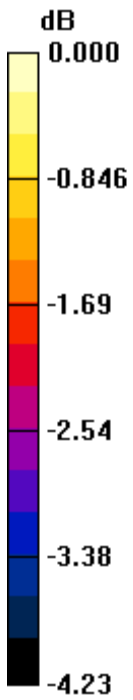
Grid 1	Grid 2	Grid 3
0.298 M4	0.314 M4	0.300 M4
Grid 4	Grid 5	Grid 6
0.309 M4	0.322 M4	0.305 M4
Grid 7	Grid 8	Grid 9
0.309 M4	0.321 M4	0.301 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.322A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		65 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:48:18 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_GSM835.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.192 A/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 0.180 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 66 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

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

Maximum value of peak Total field = 0.180 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.192 A/m; Power Drift = 0.021 dB

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

Peak H-field in A/m

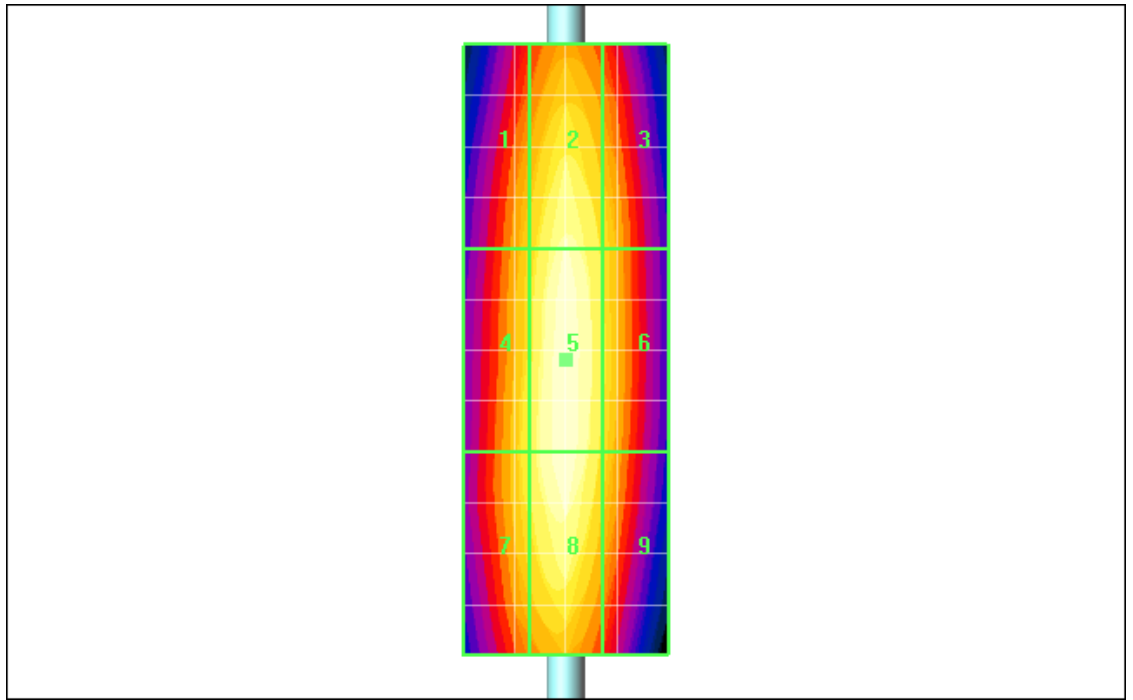
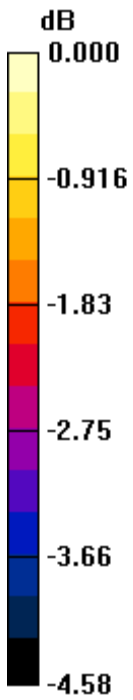
Grid 1 0.164 M4	Grid 2 0.175 M4	Grid 3 0.167 M4
Grid 4 0.170 M4	Grid 5 0.180 M4	Grid 6 0.169 M4
Grid 7 0.170 M4	Grid 8 0.179 M4	Grid 9 0.166 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.180A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		68 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:14:11 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW835_PMF_CDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.204 A/m; Power Drift = 0.022 dB

Maximum value of Total (measured) = 0.191 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 69 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

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

Maximum value of peak Total field = 0.191 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.204 A/m; Power Drift = 0.022 dB

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

Peak H-field in A/m

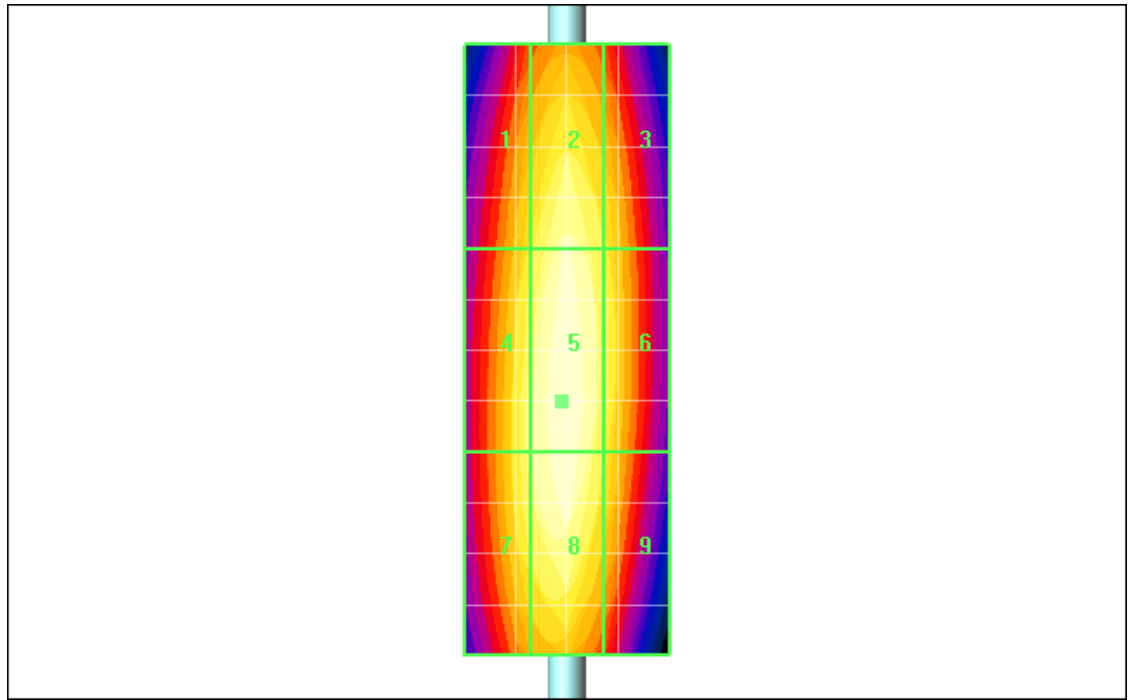
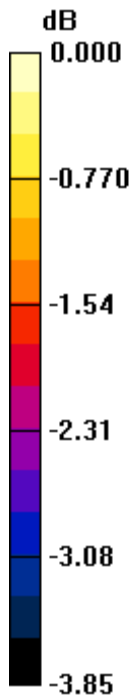
Grid 1 0.179 M4	Grid 2 0.187 M4	Grid 3 0.181 M4
Grid 4 0.185 M4	Grid 5 0.191 M4	Grid 6 0.183 M4
Grid 7 0.185 M4	Grid 8 0.190 M4	Grid 9 0.181 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.191A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		71 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:28:44 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_AM835_PMF_CDMA.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.136 A/m; Power Drift = 0.019 dB

Maximum value of Total (measured) = 0.128 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		72 (180)
Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16	FCC ID L6ARCK70CW

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

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

Maximum value of peak Total field = 0.128 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.136 A/m; Power Drift = 0.019 dB

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

Peak H-field in A/m

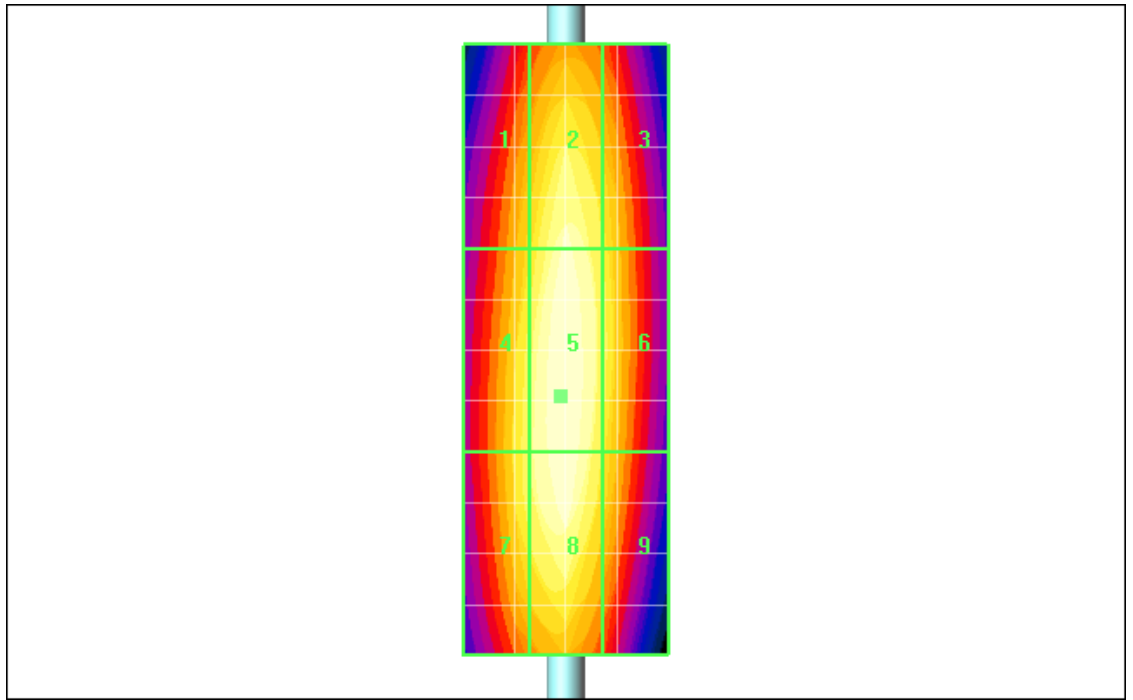
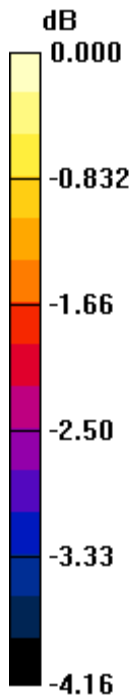
Grid 1 0.118 M4	Grid 2 0.125 M4	Grid 3 0.121 M4
Grid 4 0.123 M4	Grid 5 0.128 M4	Grid 6 0.122 M4
Grid 7 0.123 M4	Grid 8 0.128 M4	Grid 9 0.120 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.128A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		74 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 10:58:29 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CDMA835.da4](#)

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

Communication System: CDMA 800; 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.192 A/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 0.178 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		75 (180)
Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16	FCC ID L6ARCK70CW

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

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

Maximum value of peak Total field = 0.178 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.192 A/m; Power Drift = -0.048 dB

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

Peak H-field in A/m

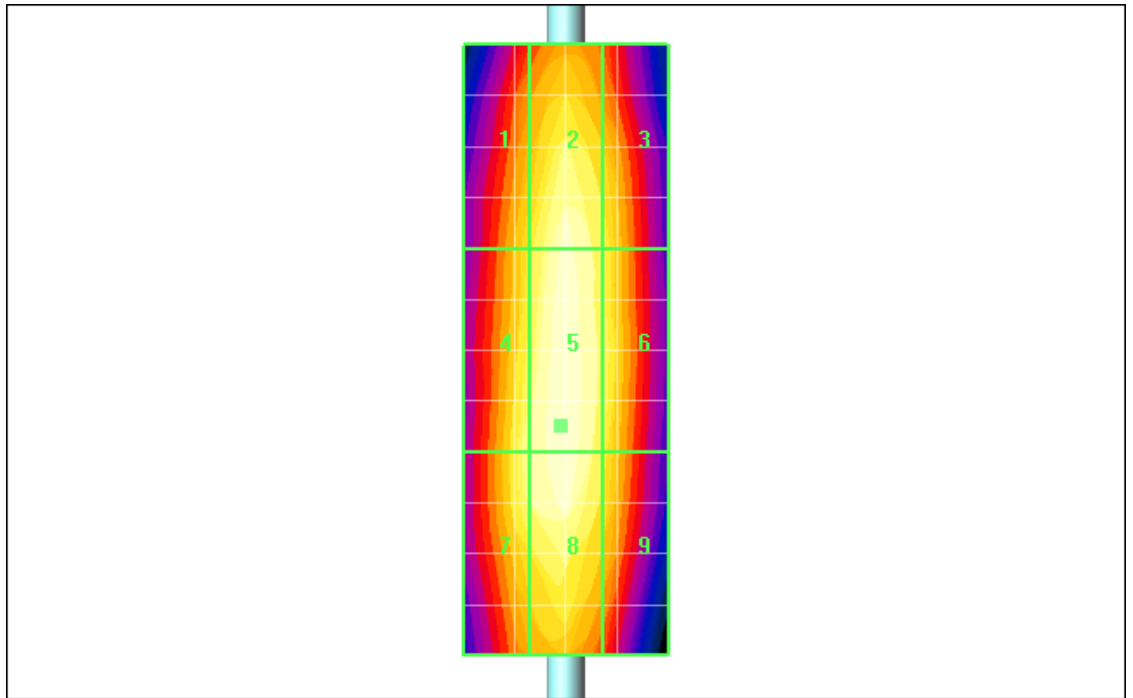
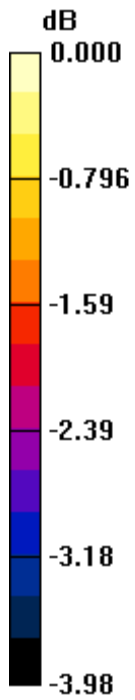
Grid 1 0.166 M4	Grid 2 0.175 M4	Grid 3 0.170 M4
Grid 4 0.174 M4	Grid 5 0.178 M4	Grid 6 0.171 M4
Grid 7 0.174 M4	Grid 8 0.177 M4	Grid 9 0.169 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.178A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		77 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 11:47:11 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW1880_20.00dBm.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.493 A/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 0.451 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		78 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.451 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.493 A/m; Power Drift = -0.077 dB

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

Peak H-field in A/m

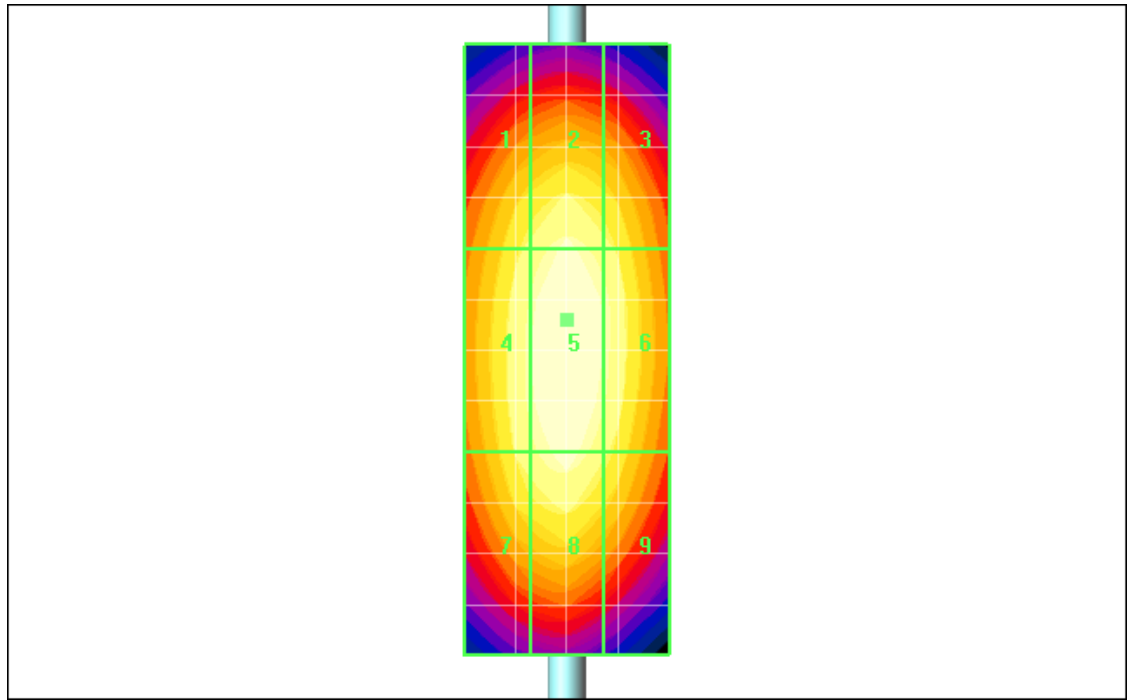
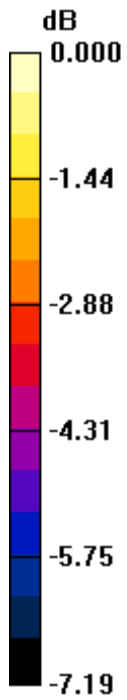
Grid 1	Grid 2	Grid 3
0.415 M2	0.433 M2	0.418 M2
Grid 4	Grid 5	Grid 6
0.433 M2	0.451 M2	0.435 M2
Grid 7	Grid 8	Grid 9
0.422 M2	0.436 M2	0.415 M2

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.451A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		80 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 11:51:04 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.334 A/m; Power Drift = 0.122 dB

Maximum value of Total (measured) = 0.317 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 81 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

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

Maximum value of peak Total field = 0.317 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.334 A/m; Power Drift = 0.122 dB

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

Peak H-field in A/m

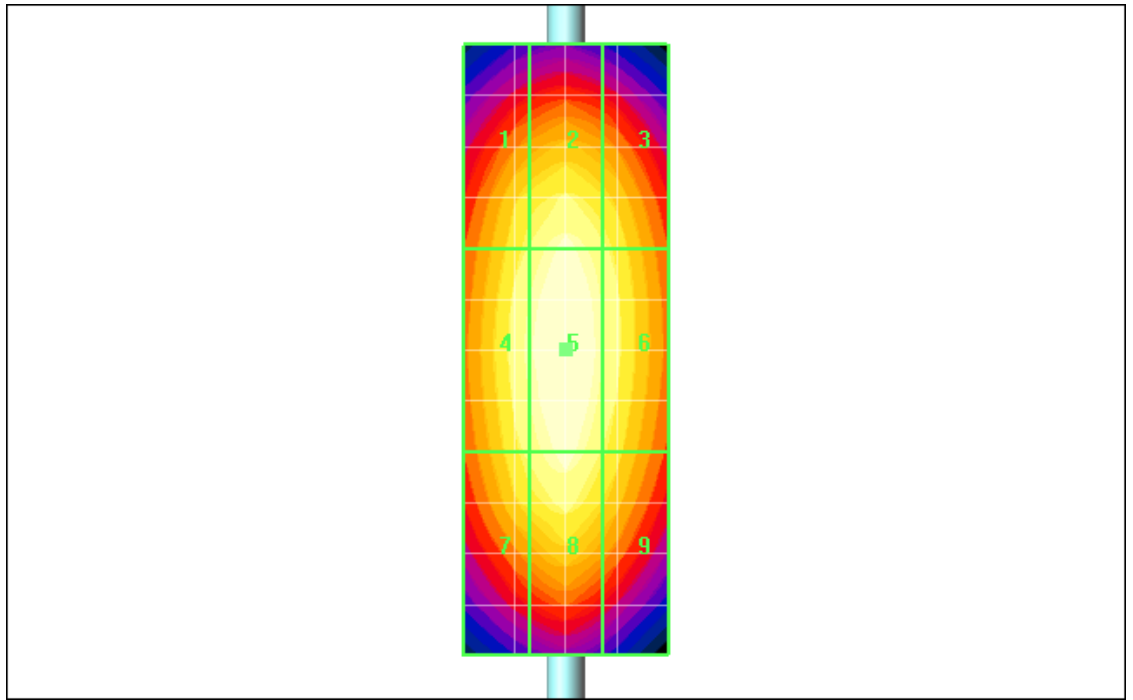
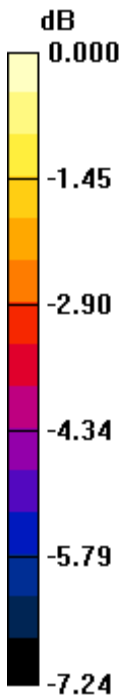
Grid 1 0.291 M3	Grid 2 0.305 M3	Grid 3 0.291 M3
Grid 4 0.304 M3	Grid 5 0.317 M3	Grid 6 0.301 M3
Grid 7 0.293 M3	Grid 8 0.306 M3	Grid 9 0.287 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.317A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		83 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 12:05:51 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_AM1880_PMF_GSM.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.221 A/m; Power Drift = 0.058 dB

Maximum value of Total (measured) = 0.206 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 84 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.207 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.221 A/m; Power Drift = 0.058 dB

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

Peak H-field in A/m

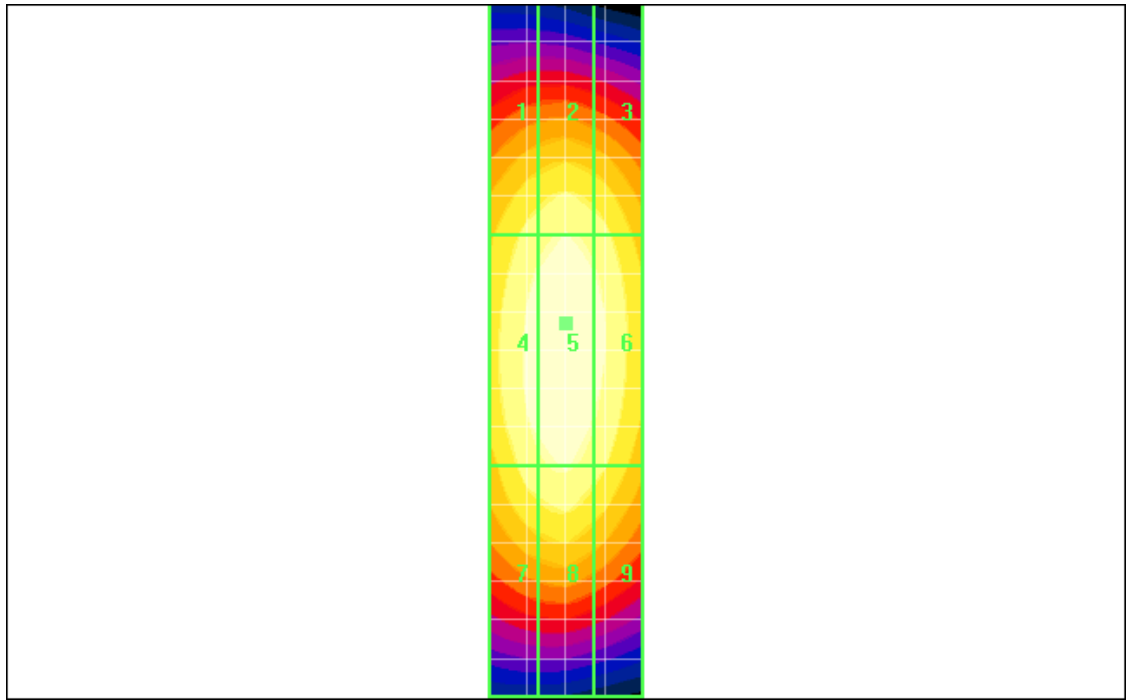
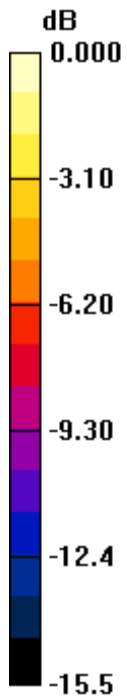
Grid 1 0.176 M4	Grid 2 0.185 M4	Grid 3 0.176 M4
Grid 4 0.196 M3	Grid 5 0.207 M3	Grid 6 0.194 M3
Grid 7 0.179 M4	Grid 8 0.187 M4	Grid 9 0.173 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.207A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		86 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 11:28:13 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_GSM1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.151 A/m; Power Drift = -0.003 dB

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

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		87 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.141 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.151 A/m; Power Drift = -0.003 dB

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

Peak H-field in A/m

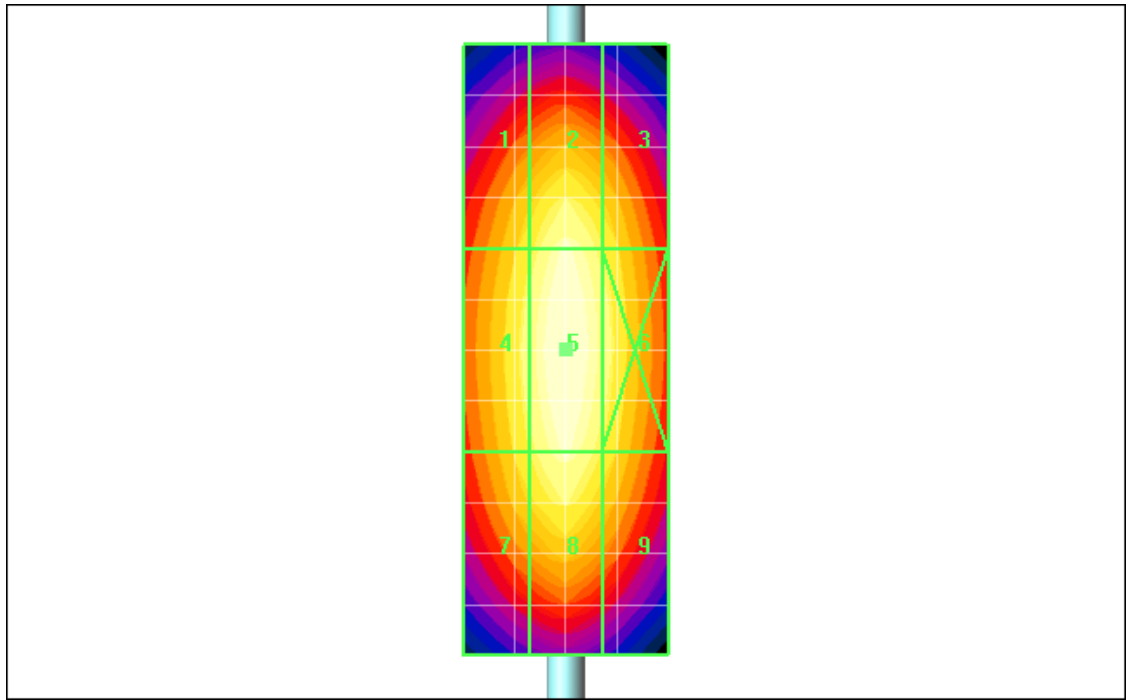
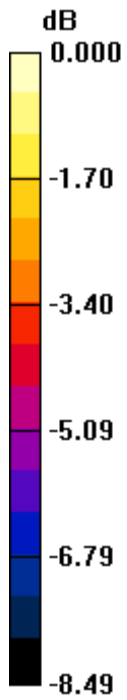
Grid 1	Grid 2	Grid 3
0.122 M4	0.134 M4	0.124 M4
Grid 4	Grid 5	Grid 6
0.129 M4	0.141 M3	0.130 M4
Grid 7	Grid 8	Grid 9
0.124 M4	0.134 M4	0.123 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.141A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		89 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 11:58:39 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CW1880_PMF_CDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.167 A/m; Power Drift = 0.037 dB

Maximum value of Total (measured) = 0.153 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		90 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.167 A/m; Power Drift = 0.037 dB

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

Peak H-field in A/m

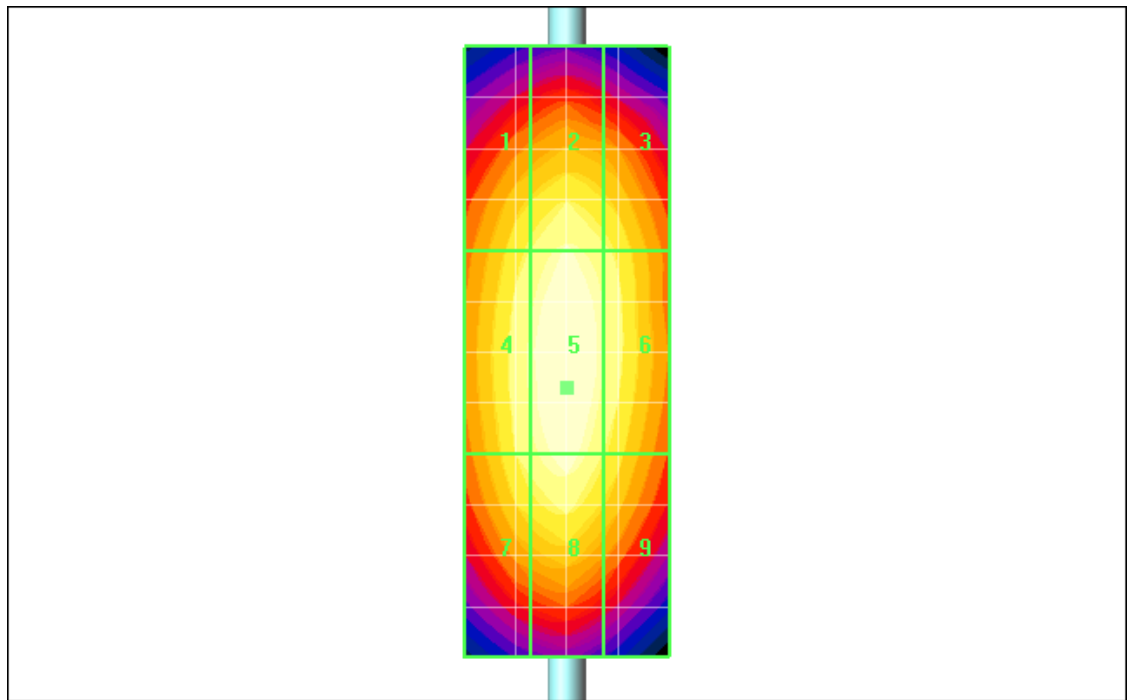
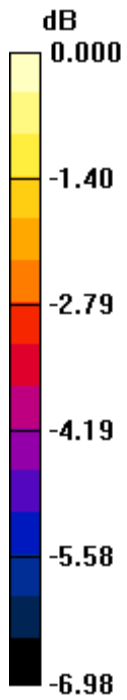
Grid 1	Grid 2	Grid 3
0.140 M4	0.146 M4	0.141 M4
Grid 4	Grid 5	Grid 6
0.146 M4	0.153 M4	0.146 M4
Grid 7	Grid 8	Grid 9
0.143 M4	0.149 M4	0.139 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.153A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		92 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 12:10:34 PM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_AM1880_PMF_CDMA.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Dipole

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

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

Phantom section: TCoil Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.106 A/m; Power Drift = -0.053 dB

Maximum value of Total (measured) = 0.098 A/m

H Scan - measurement distance from the probe sensor center to

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 93 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of peak Total field = 0.098 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = -0.053 dB

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

Peak H-field in A/m

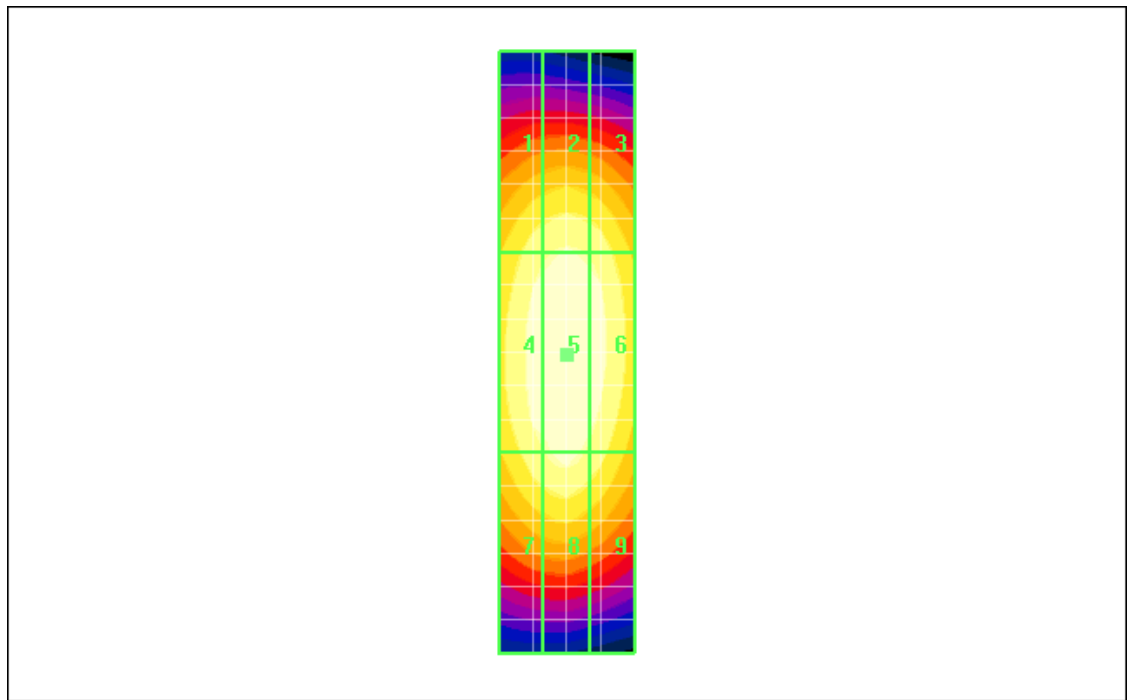
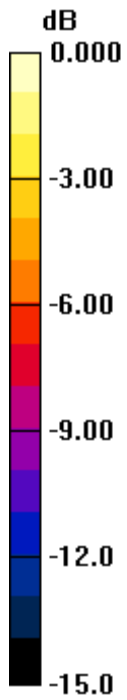
Grid 1 0.085 M4	Grid 2 0.089 M4	Grid 3 0.086 M4
Grid 4 0.094 M4	Grid 5 0.098 M4	Grid 6 0.094 M4
Grid 7 0.087 M4	Grid 8 0.091 M4	Grid 9 0.085 M4

Author Data
Daoud Attayi

Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.098A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		95 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 11/08/2009 11:07:04 AM

Test Laboratory: RTS

File Name: [HAC_H_Dipole_CDMA1880.da4](#)

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Program Name: HAC RF H3DV6 Dipole

Communication System: CDMA 1900; 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.169 A/m; Power Drift = 0.099 dB

Maximum value of Total (measured) = 0.163 A/m

H Scan - measurement distance from the probe sensor center to

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		96 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

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

Maximum value of peak Total field = 0.164 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.169 A/m; Power Drift = 0.099 dB

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

Peak H-field in A/m

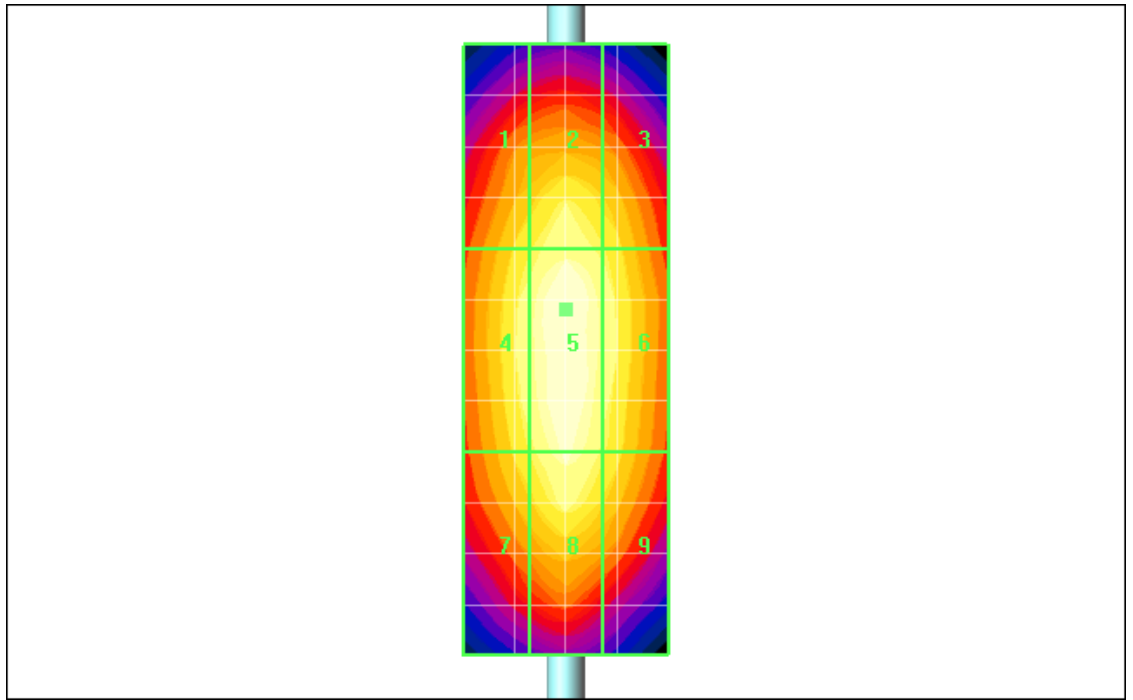
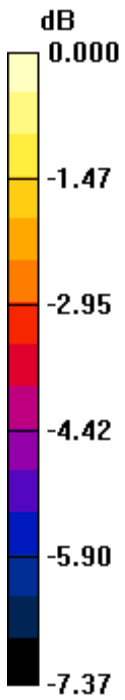
Grid 1	Grid 2	Grid 3
0.146 M4	0.153 M4	0.147 M4
Grid 4	Grid 5	Grid 6
0.154 M4	0.164 M4	0.154 M4
Grid 7	Grid 8	Grid 9
0.147 M4	0.157 M4	0.148 M4

Author Data
Daoud Attayi

Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

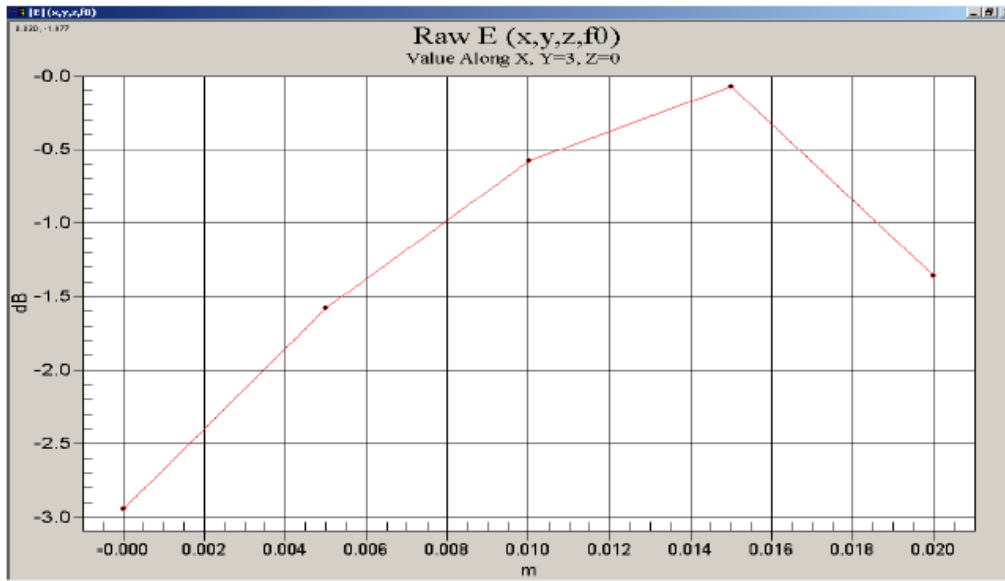
FCC ID
L6ARCK70CW



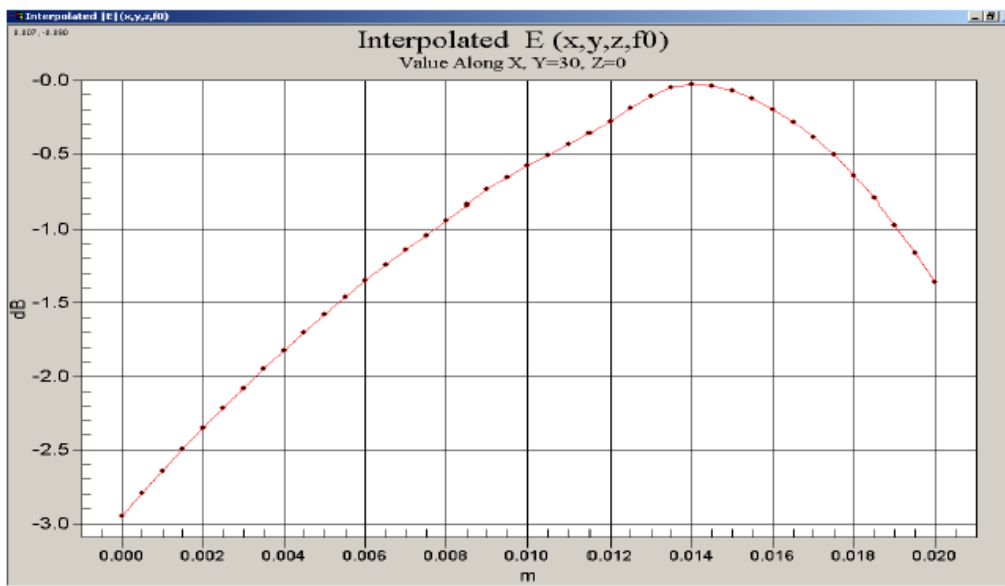
0 dB = 0.164A/m

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.

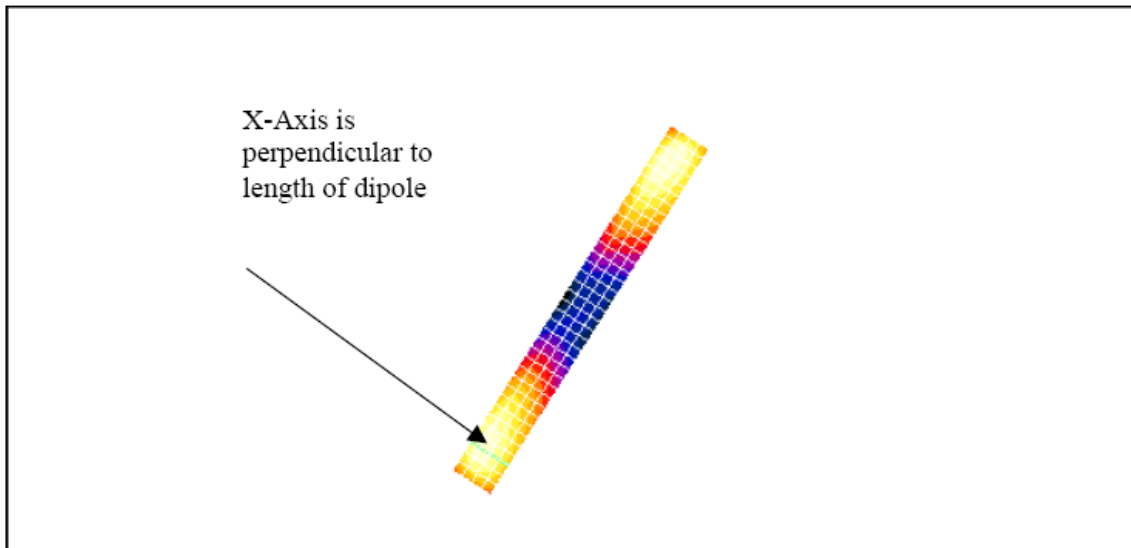


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



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 RCK71CW		Page 99 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16



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		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		100 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

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

Phantom section: H Device Section

DASY4 Configuration:

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

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

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

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

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

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

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


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

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

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

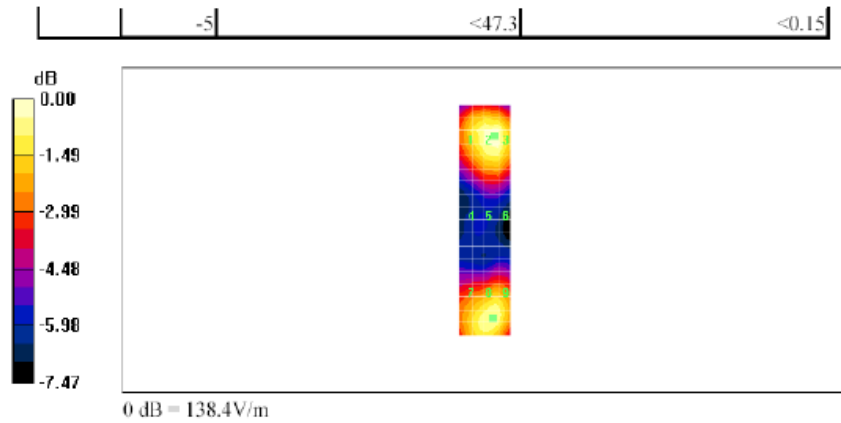
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		101 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

Page 2 of 2



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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		102 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

Page 1 of 2

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

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

DASY4 Configuration:

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

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

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

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


Measurement grid: dx=2mm, dy=2mm
 Maximum value of Total field (slot averaged) = 131.2 V/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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

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

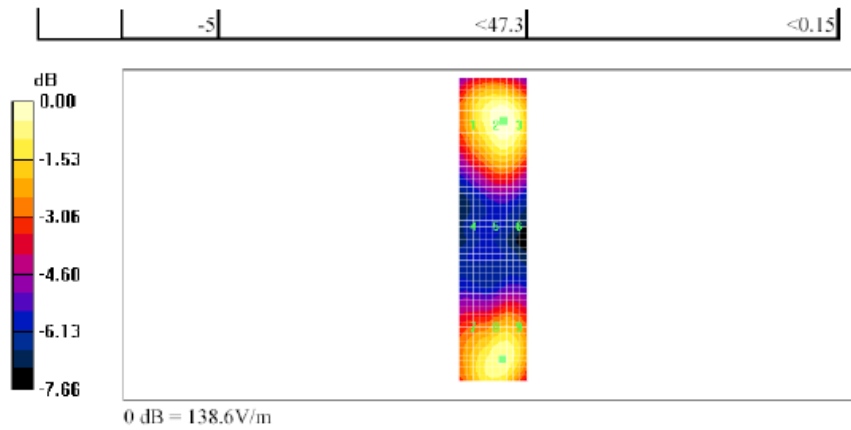
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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


	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 103 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

Page 2 of 2



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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		104 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

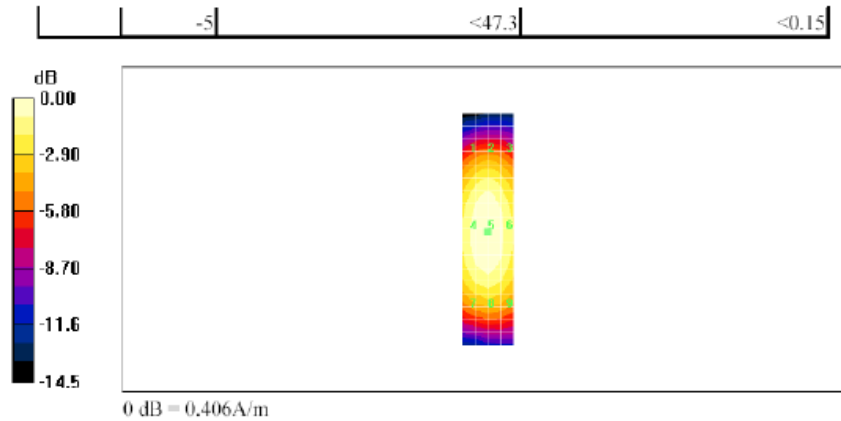
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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 RCK71CW		Page 105 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		106 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

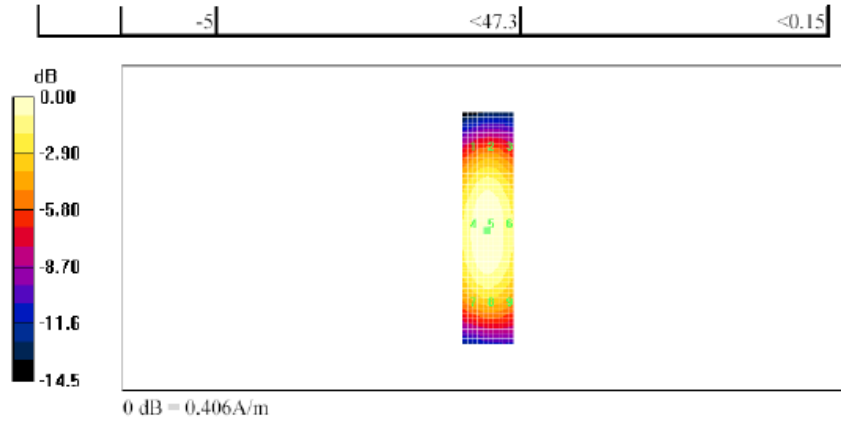
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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 RCK71CW		Page 107 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		108 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

A.3 RF emissions plots

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		109 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 21/08/2009 12:00:37 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM850_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 107.1 V/m; Power Drift = 0.206 dB

Maximum value of Total (measured) = 83.6 V/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 110 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 244.8 V/m

Probe Modulation Factor = 2.91

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 107.1 V/m; Power Drift = 0.206 dB

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

Peak E-field in V/m

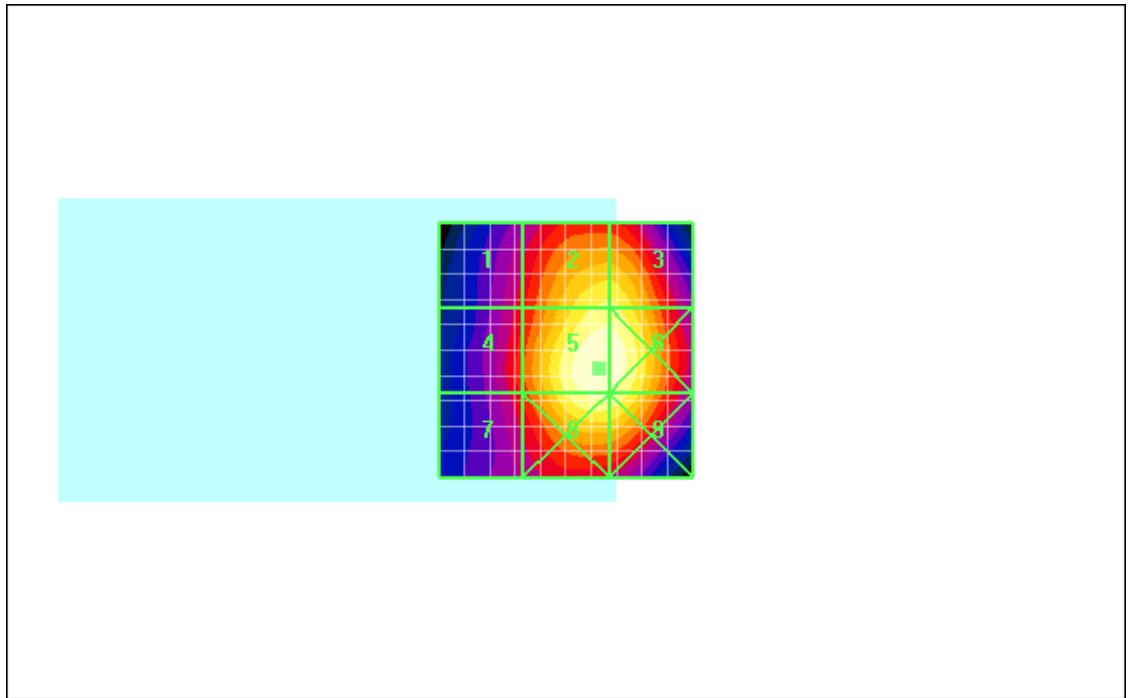
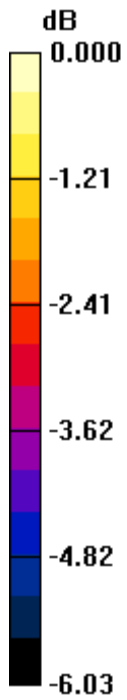
Grid 1 175.5 M3	Grid 2 226.0 M3	Grid 3 226.0 M3
Grid 4 184.7 M3	Grid 5 244.8 M3	Grid 6 243.6 M3
Grid 7 179.7 M3	Grid 8 236.8 M3	Grid 9 235.1 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 244.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		112 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 21/08/2009 12:07:20 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM850_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.0 V/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 88.6 V/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 113 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 261.3 V/m

Probe Modulation Factor = 2.91

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 116.0 V/m; Power Drift = -0.048 dB

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

Peak E-field in V/m

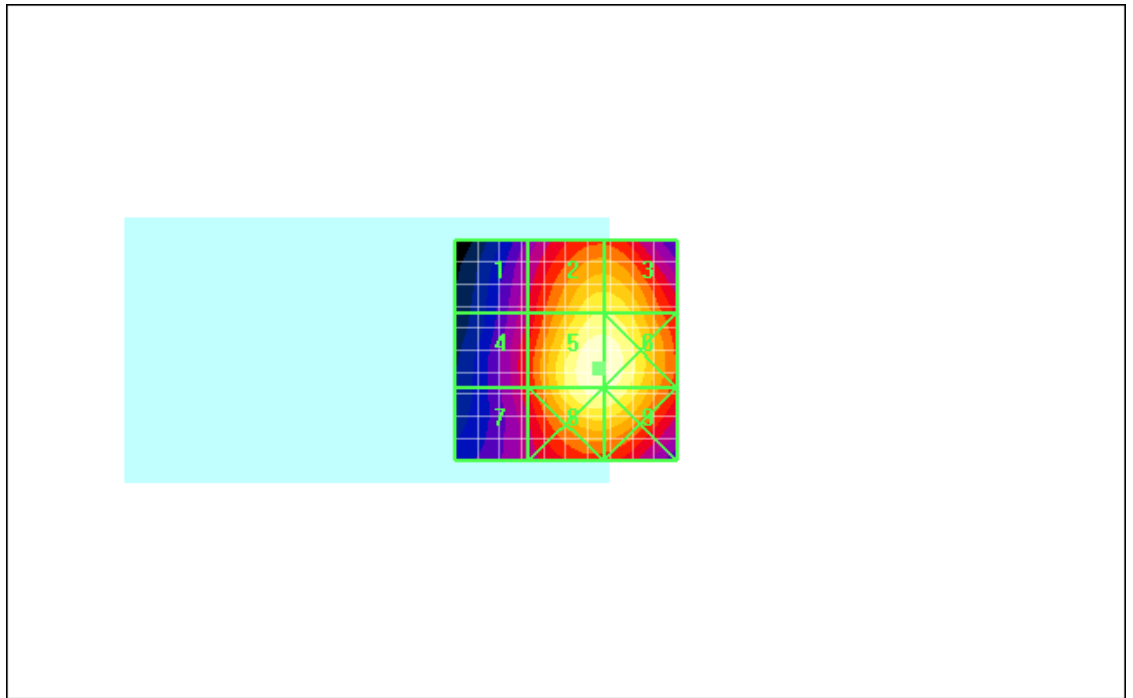
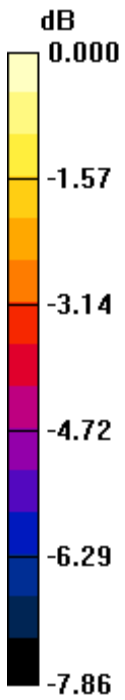
Grid 1 163.8 M3	Grid 2 233.1 M3	Grid 3 233.1 M3
Grid 4 174.9 M3	Grid 5 261.3 M3	Grid 6 260.6 M3
Grid 7 171.5 M3	Grid 8 253.2 M3	Grid 9 251.7 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 261.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		115 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 21/08/2009 12:14:04 PM

Test Laboratory: RTS

File Name: [HAC_E_GSM850_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 118.9 V/m; Power Drift = -0.016 dB

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

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		116 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 253.0 V/m

Probe Modulation Factor = 2.91

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 118.9 V/m; Power Drift = -0.016 dB

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

Peak E-field in V/m

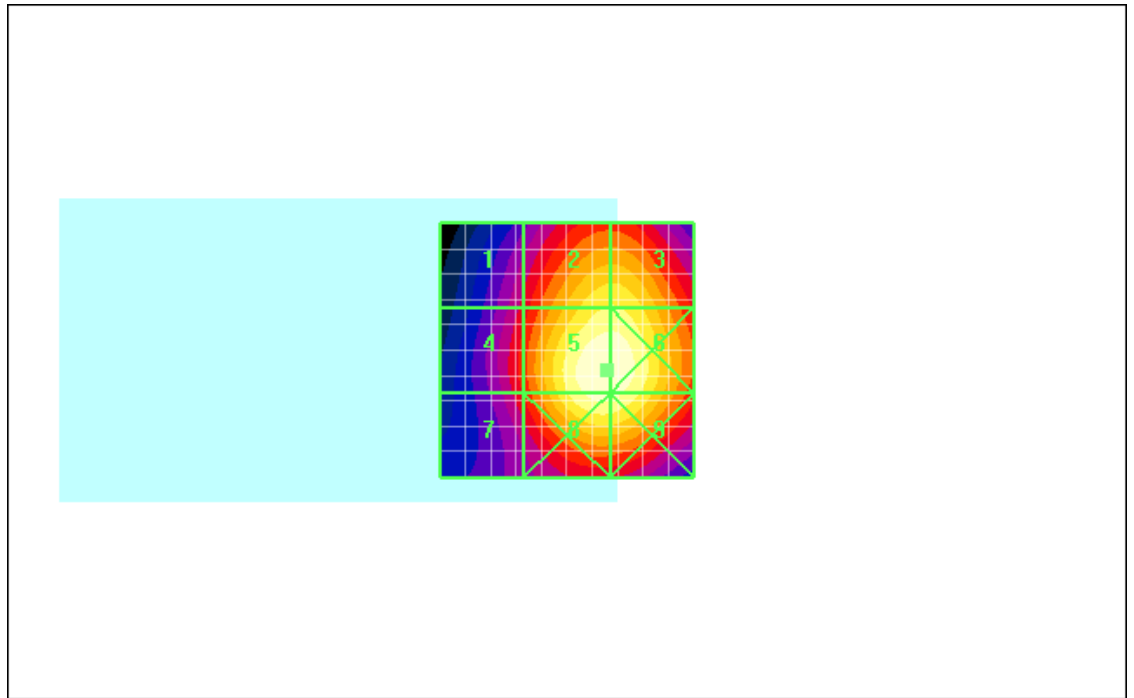
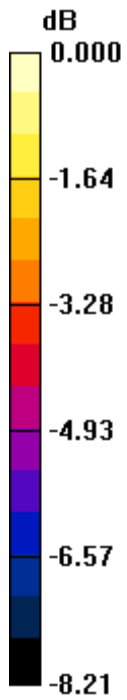
Grid 1	Grid 2	Grid 3
157.5 M3	224.3 M3	224.4 M3
Grid 4	Grid 5	Grid 6
170.1 M3	253.0 M3	252.8 M3
Grid 7	Grid 8	Grid 9
164.1 M3	244.1 M3	242.4 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 253.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		118 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:38:06 AM

Test Laboratory: RTS

File Name: [HAC_E_CDMA800_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 824.7 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 81.8 V/m; Power Drift = 0.043 dB

Maximum value of Total (measured) = 66.0 V/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 119 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 71.4 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 81.8 V/m; Power Drift = 0.043 dB

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

Peak E-field in V/m

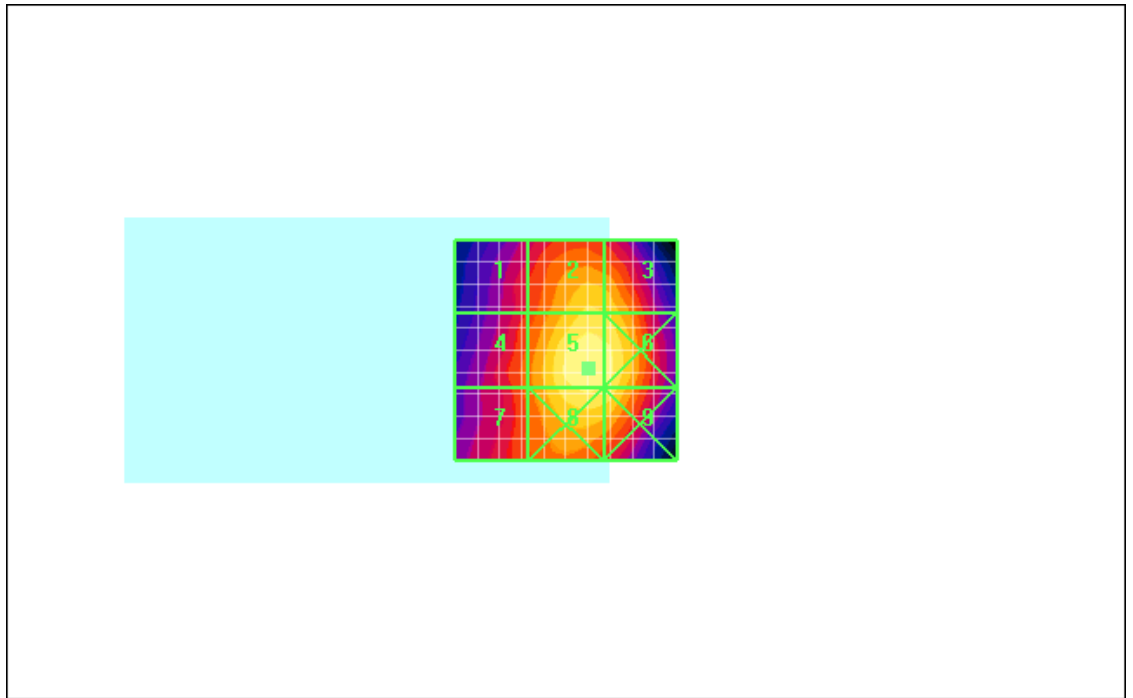
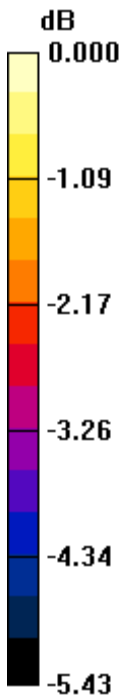
Grid 1 56.2 M4	Grid 2 66.4 M4	Grid 3 65.9 M4
Grid 4 59.6 M4	Grid 5 71.4 M4	Grid 6 70.3 M4
Grid 7 59.1 M4	Grid 8 69.1 M4	Grid 9 68.6 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 71.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		121 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:44:22 AM

Test Laboratory: RTS

File Name: [HAC_E_CDMA800_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 836.52 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 91.5 V/m; Power Drift = 0.148 dB

Maximum value of Total (measured) = 74.2 V/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 122 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 80.6 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 91.5 V/m; Power Drift = 0.148 dB

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

Peak E-field in V/m

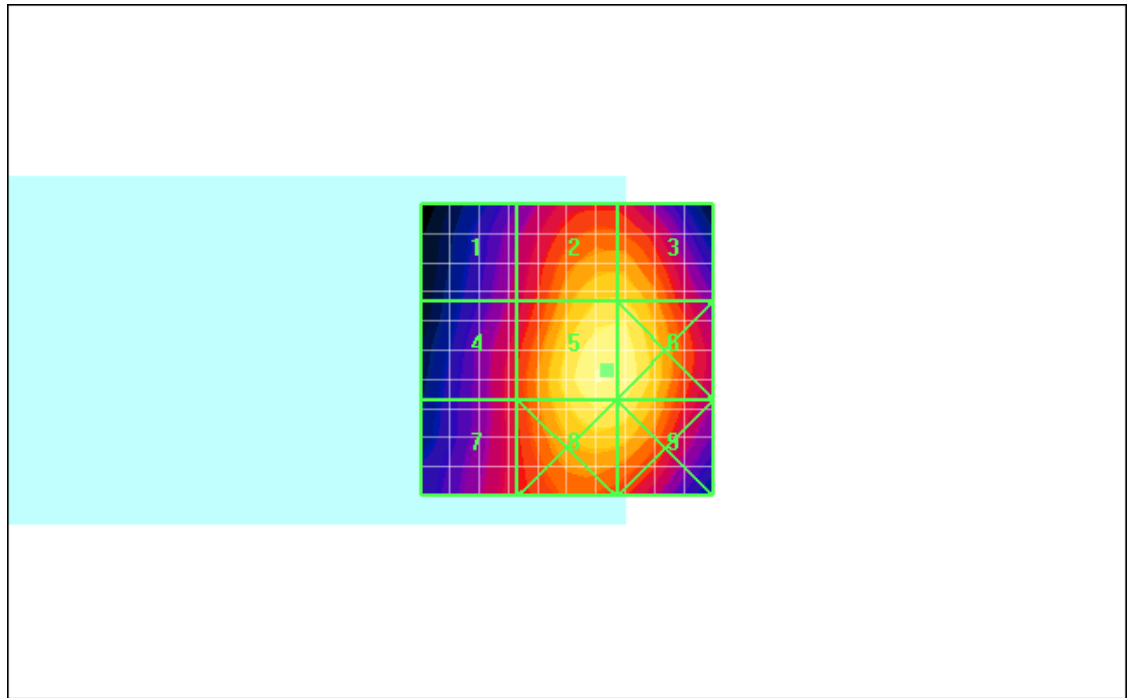
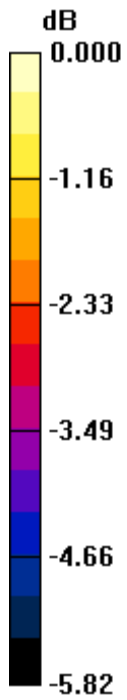
Grid 1 58.1 M4	Grid 2 74.1 M4	Grid 3 74.0 M4
Grid 4 62.0 M4	Grid 5 80.6 M4	Grid 6 80.3 M4
Grid 7 61.8 M4	Grid 8 77.8 M4	Grid 9 77.3 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 80.6V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		124 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:50:36 AM

Test Laboratory: RTS

File Name: [HAC_E_CDMA800_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 800; Frequency: 848.52 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 97.0 V/m; Power Drift = 0.068 dB

Maximum value of Total (measured) = 76.4 V/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 125 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 83.3 V/m

Probe Modulation Factor = 1.08

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 97.0 V/m; Power Drift = 0.068 dB

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

Peak E-field in V/m

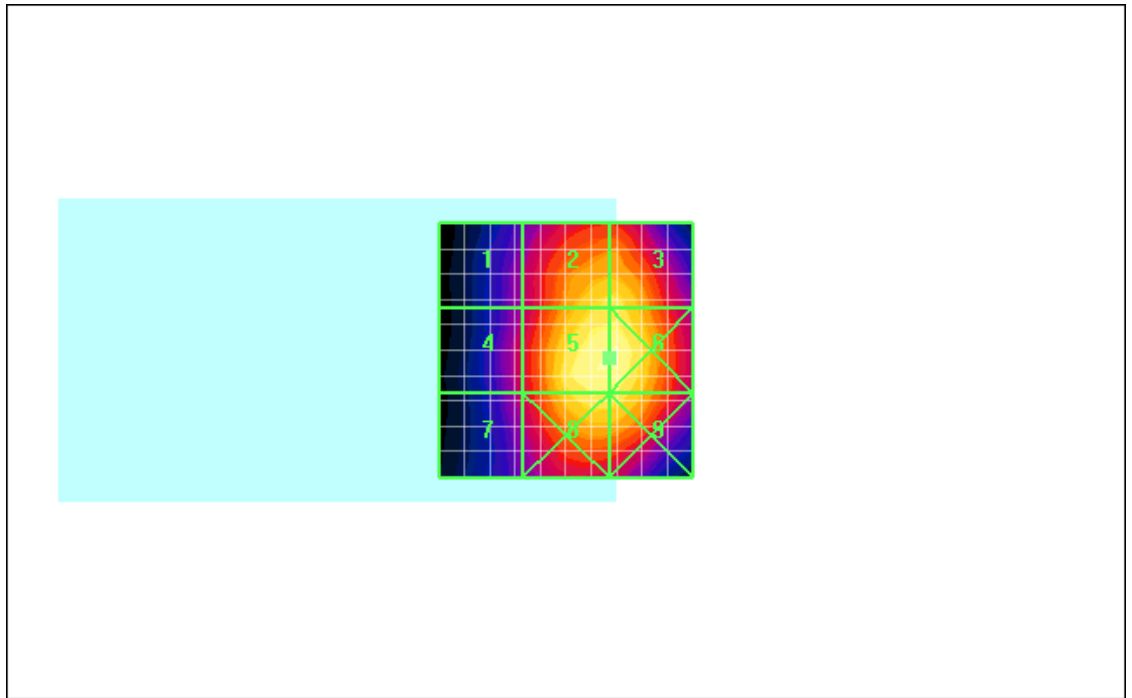
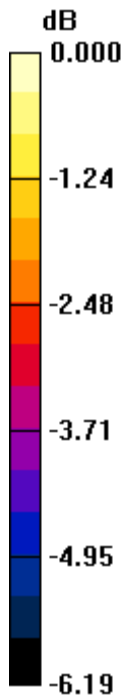
Grid 1 57.3 M4	Grid 2 77.2 M4	Grid 3 77.3 M4
Grid 4 60.1 M4	Grid 5 83.3 M4	Grid 6 83.3 M4
Grid 7 58.9 M4	Grid 8 79.2 M4	Grid 9 78.9 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 83.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		127 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:10:17 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM1900_Low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 12.6 V/m; Power Drift = 0.002 dB

Maximum value of Total (measured) = 25.4 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		128 (180)
Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16	FCC ID L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 53.3 V/m

Probe Modulation Factor = 2.88

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.6 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

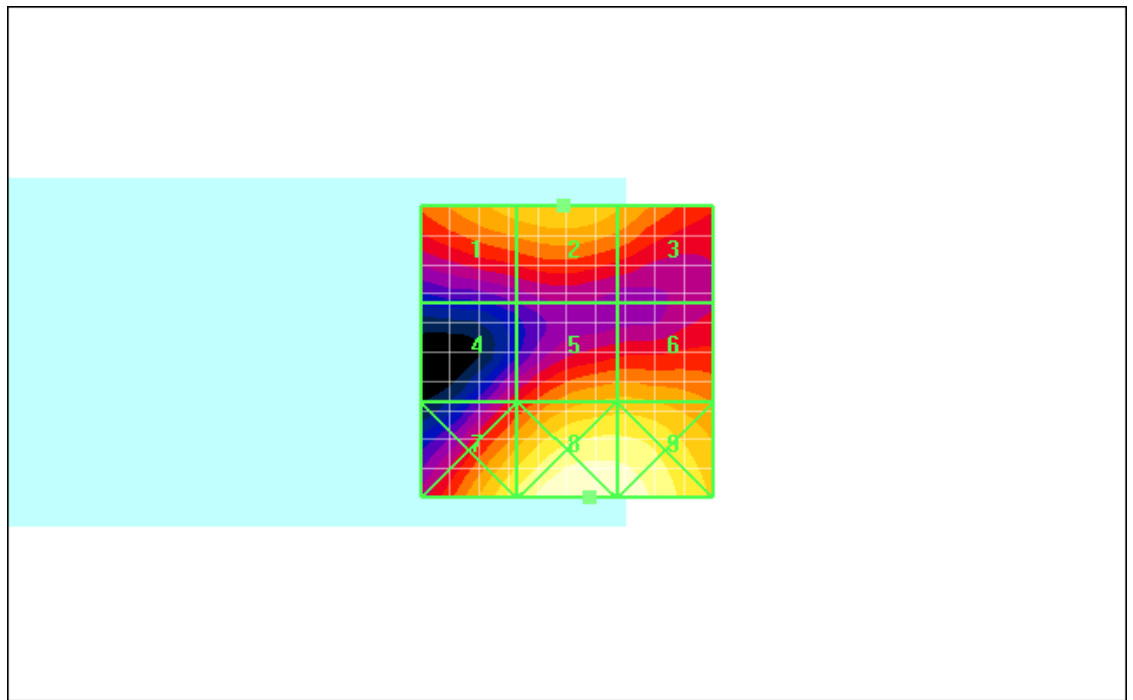
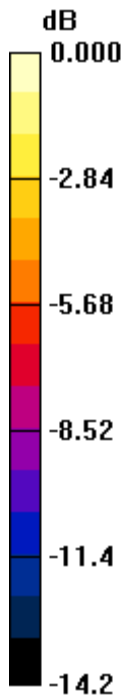
Grid 1 50.5 M3	Grid 2 53.3 M3	Grid 3 48.2 M3
Grid 4 33.8 M4	Grid 5 48.9 M3	Grid 6 49.0 M3
Grid 7 61.1 M3	Grid 8 73.3 M3	Grid 9 72.3 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 73.3V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		130 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:15:28 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM1900_Mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 12.4 V/m; Power Drift = -0.007 dB

Maximum value of Total (measured) = 22.5 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		131 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 48.2 V/m

Probe Modulation Factor = 2.88

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.4 V/m; Power Drift = -0.007 dB

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

Peak E-field in V/m

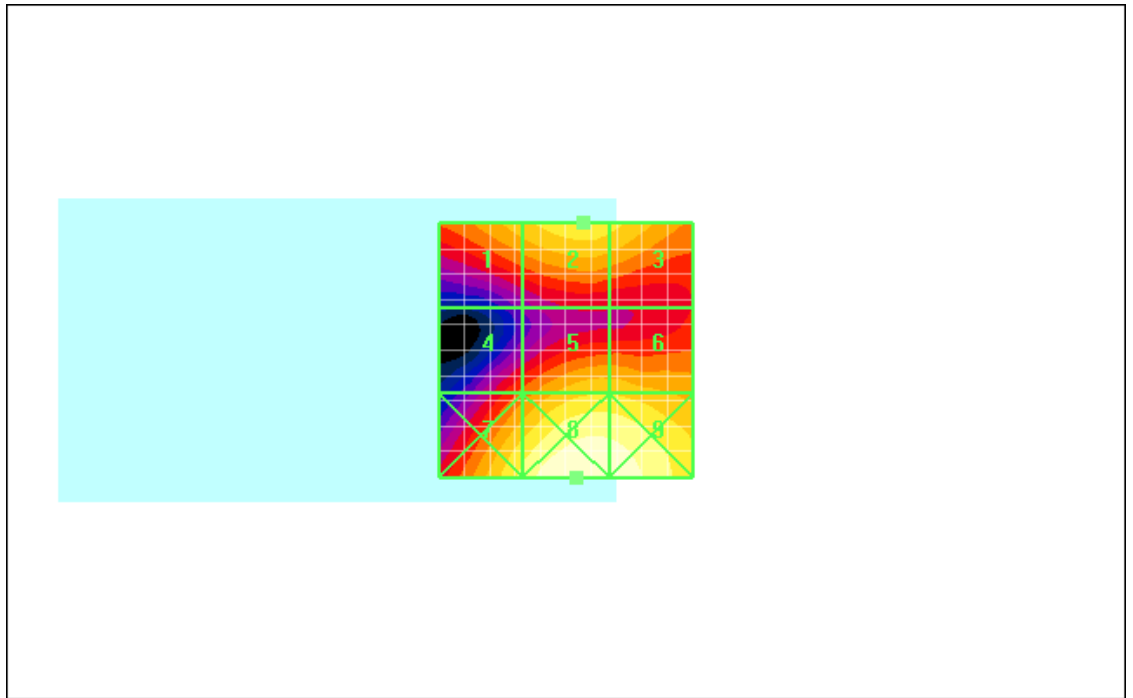
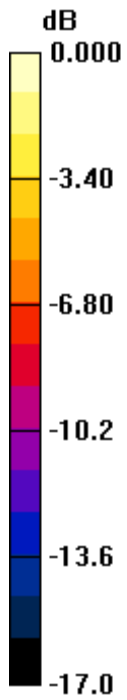
Grid 1	Grid 2	Grid 3
42.3 M4	48.2 M3	46.3 M4
Grid 4	Grid 5	Grid 6
31.6 M4	44.1 M4	44.0 M4
Grid 7	Grid 8	Grid 9
52.6 M3	65.2 M3	63.7 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 65.2V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		133 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 10:21:10 AM

Test Laboratory: RTS

File Name: [HAC_E_GSM1900_High_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 11.9 V/m; Power Drift = 0.163 dB

Maximum value of Total (measured) = 19.4 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		134 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 47.8 V/m

Probe Modulation Factor = 2.88

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 11.9 V/m; Power Drift = 0.163 dB

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

Peak E-field in V/m

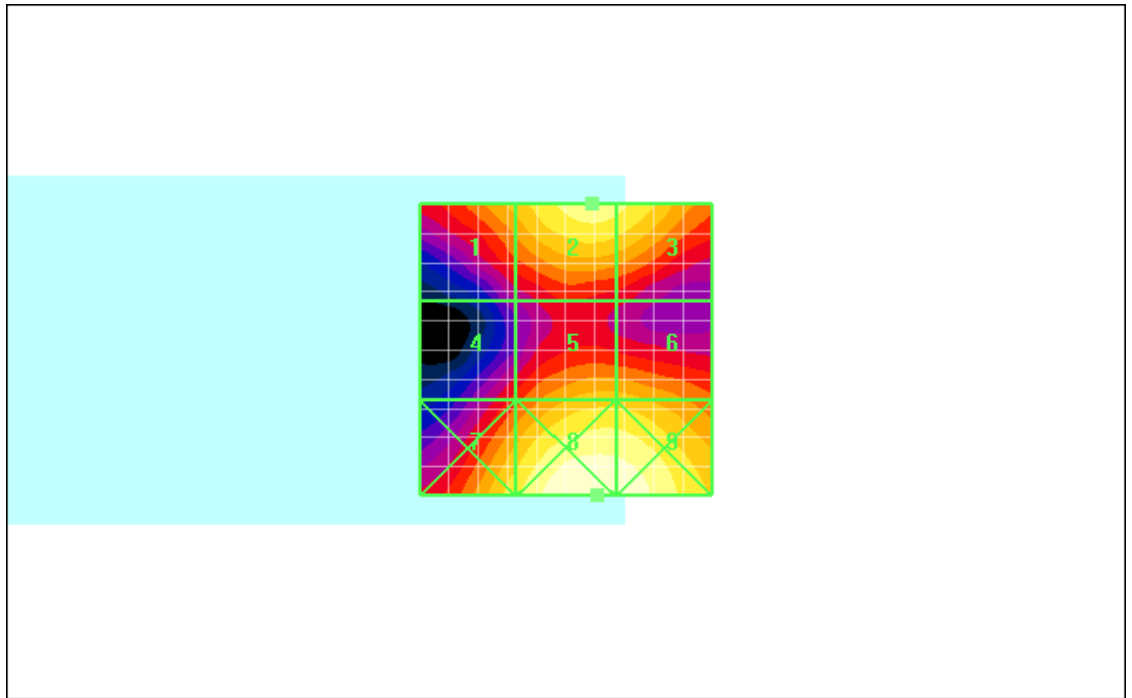
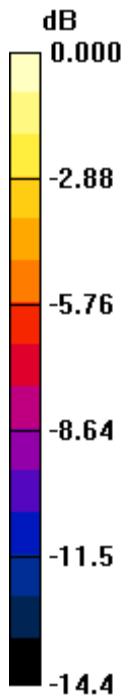
Grid 1	Grid 2	Grid 3
38.1 M4	47.8 M3	46.4 M4
Grid 4	Grid 5	Grid 6
27.6 M4	38.2 M4	38.1 M4
Grid 7	Grid 8	Grid 9
44.2 M4	55.8 M3	55.7 M3

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 55.8V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		136 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 11:01:22 AM

Test Laboratory: RTS

File Name: [HAC_E_CDMA1900_low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 1900; Frequency: 1851.25 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.252 dB

Maximum value of Total (measured) = 38.9 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		137 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 29.6 V/m

Probe Modulation Factor = 1.04

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.5 V/m; Power Drift = 0.252 dB

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

Peak E-field in V/m

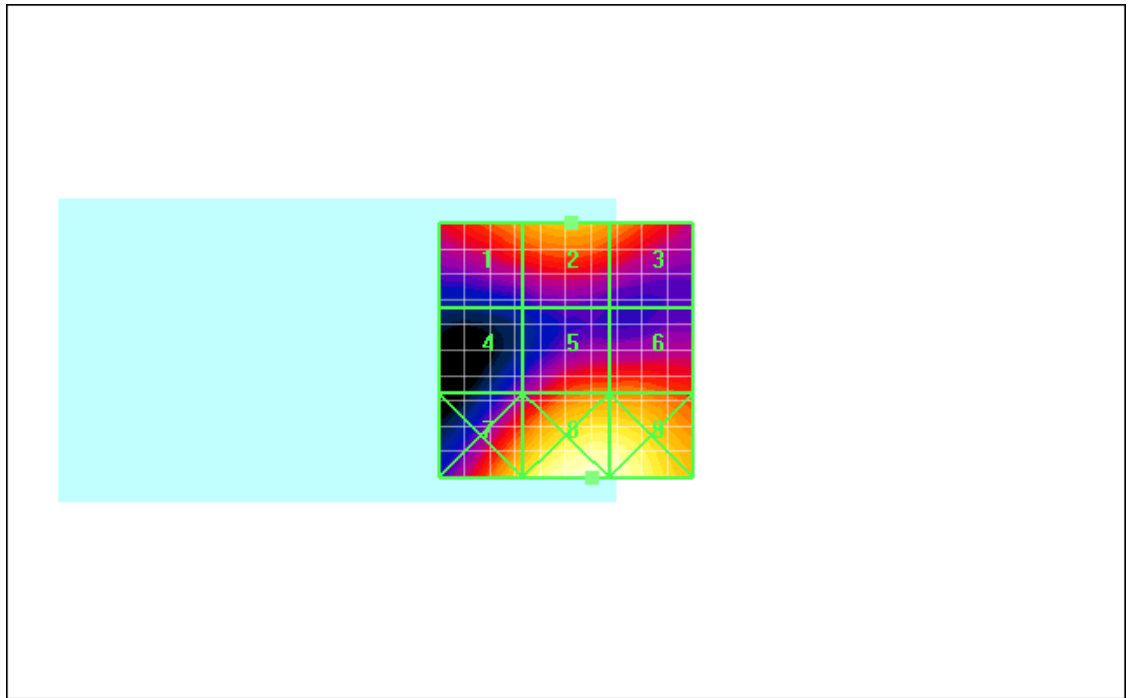
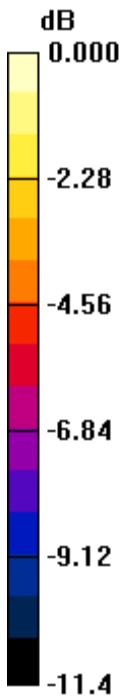
Grid 1	Grid 2	Grid 3
27.3 M4	29.6 M4	27.7 M4
Grid 4	Grid 5	Grid 6
18.4 M4	26.5 M4	26.4 M4
Grid 7	Grid 8	Grid 9
32.7 M4	40.5 M4	39.7 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 40.5V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		139 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 12:13:01 PM

Test Laboratory: RTS

File Name: [HAC_E_CDMA1900_mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 1900; 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 18.6 V/m; Power Drift = -0.118 dB

Maximum value of Total (measured) = 32.0 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		140 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 23.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.6 V/m; Power Drift = -0.118 dB

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

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

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

Maximum value of peak Total field = 23.9 V/m

Probe Modulation Factor = 1.04

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.6 V/m; Power Drift = -0.118 dB

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

Peak E-field in V/m

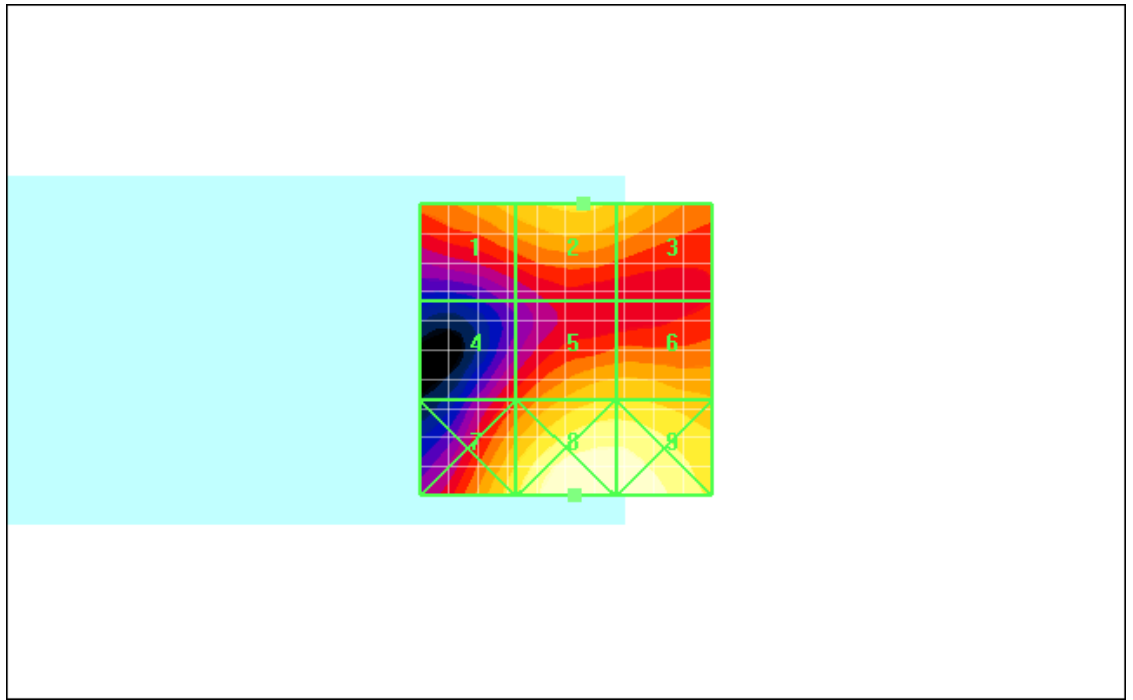
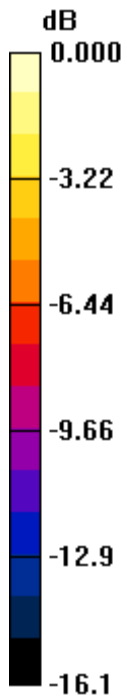
Grid 1	Grid 2	Grid 3
22.0 M4	23.9 M4	22.7 M4
Grid 4	Grid 5	Grid 6
15.6 M4	23.6 M4	23.6 M4
Grid 7	Grid 8	Grid 9
26.1 M4	33.7 M4	33.5 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 32.4V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		142 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 17/08/2009 12:34:32 PM

Test Laboratory: RTS

File Name: [HAC_E_CDMA1900_high_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF ER3D Device

Communication System: CDMA 1900; Frequency: 1908.5 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: 08/01/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.9 V/m; Power Drift = -0.131 dB

Maximum value of Total (measured) = 27.7 V/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		143 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 25.0 V/m

Probe Modulation Factor = 1.04

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 17.9 V/m; Power Drift = -0.131 dB

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

Peak E-field in V/m

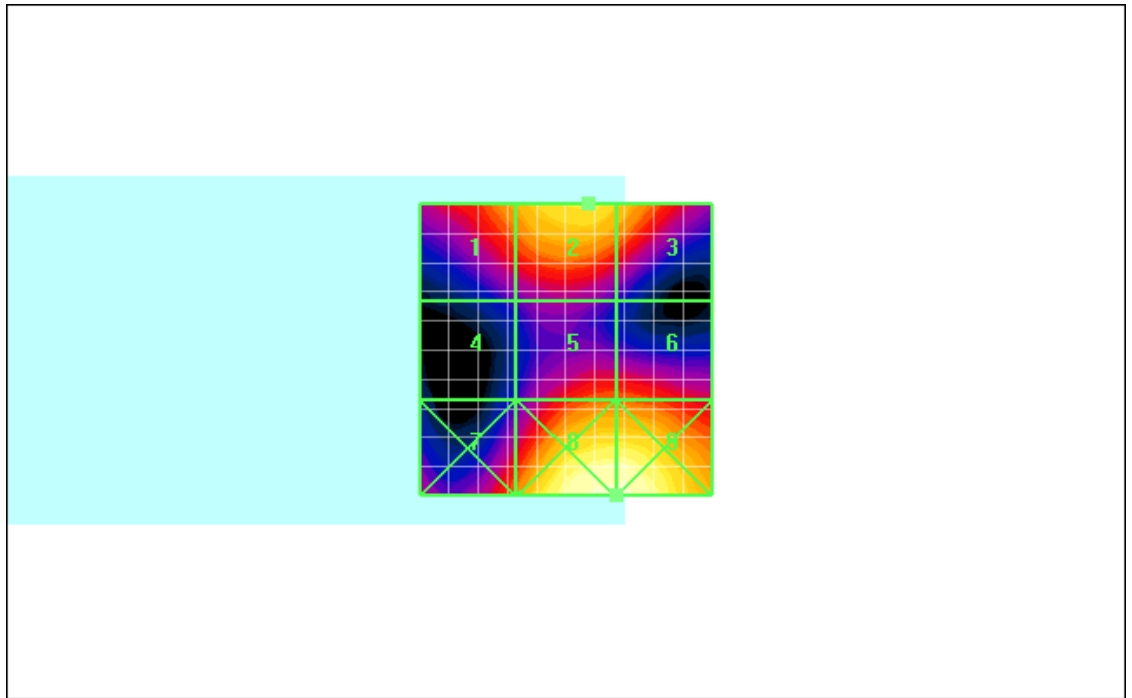
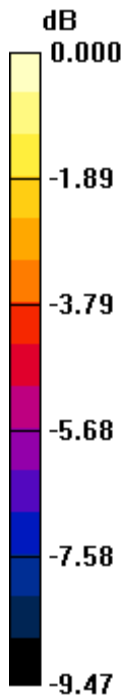
Grid 1	Grid 2	Grid 3
21.8 M4	25.0 M4	23.3 M4
Grid 4	Grid 5	Grid 6
14.1 M4	19.8 M4	19.7 M4
Grid 7	Grid 8	Grid 9
20.5 M4	29.0 M4	29.0 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 29.0V/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		145 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 2:52:51 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_Low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.121 A/m; Power Drift = 0.044 dB

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

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		146 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.435 A/m

Probe Modulation Factor = 2.66

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.121 A/m; Power Drift = 0.044 dB

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

Peak H-field in A/m

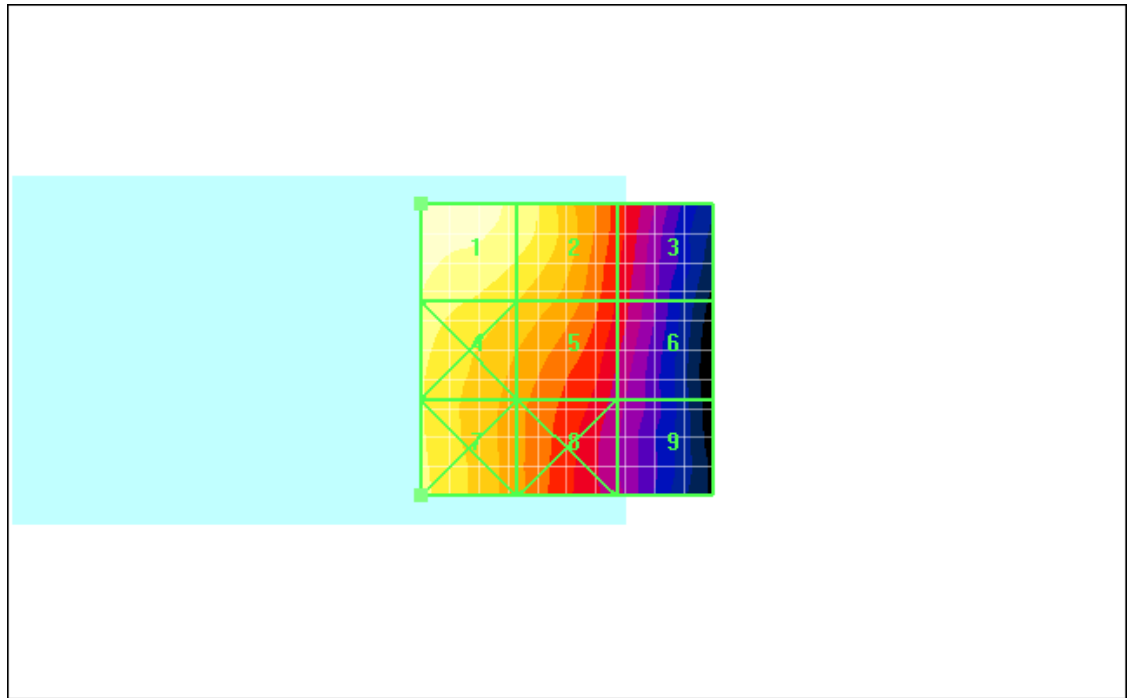
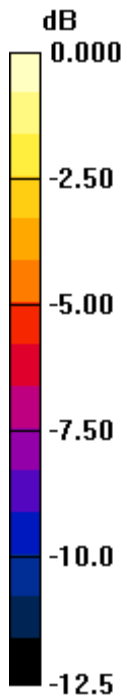
Grid 1	Grid 2	Grid 3
0.435 M4	0.382 M4	0.236 M4
Grid 4	Grid 5	Grid 6
0.391 M4	0.327 M4	0.221 M4
Grid 7	Grid 8	Grid 9
0.373 M4	0.280 M4	0.193 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.435A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		148 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:00:34 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_Mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.145 A/m; Power Drift = -0.037 dB

Maximum value of Total (measured) = 0.163 A/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 149 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.434 A/m

Probe Modulation Factor = 2.66

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.145 A/m; Power Drift = -0.037 dB

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

Peak H-field in A/m

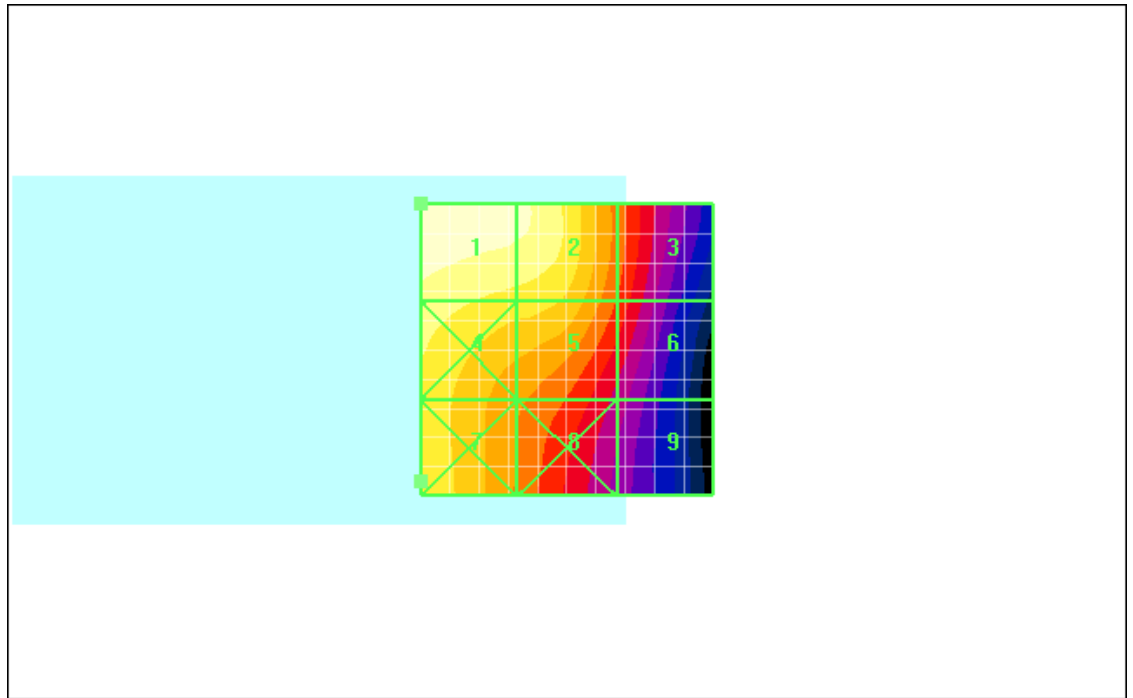
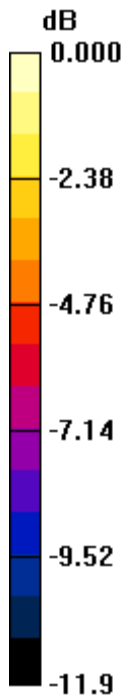
Grid 1 0.434 M4	Grid 2 0.403 M4	Grid 3 0.267 M4
Grid 4 0.386 M4	Grid 5 0.348 M4	Grid 6 0.250 M4
Grid 7 0.363 M4	Grid 8 0.281 M4	Grid 9 0.203 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.434A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		151 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:05:56 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM850_High_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.172 A/m; Power Drift = 0.118 dB

Maximum value of Total (measured) = 0.174 A/m

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

	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		Page 152 (180)
	Author Data Daoud Attayi	Dates of Test Aug 10-21, 2009	Report No RTS-1765-0908-16

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.465 A/m

Probe Modulation Factor = 2.66

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.172 A/m; Power Drift = 0.118 dB

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

Peak H-field in A/m

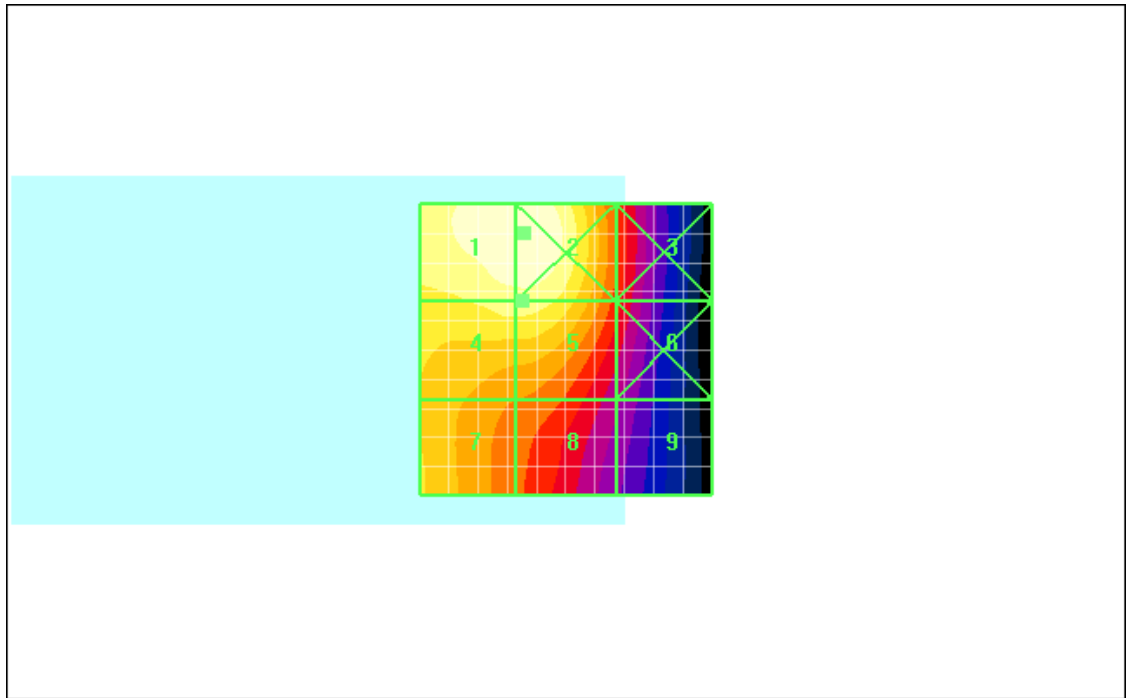
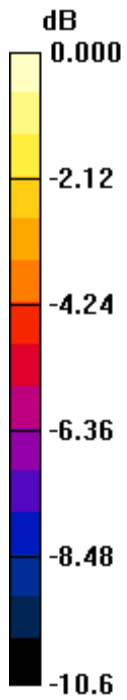
Grid 1 0.465 M3	Grid 2 0.468 M3	Grid 3 0.293 M4
Grid 4 0.416 M4	Grid 5 0.417 M4	Grid 6 0.278 M4
Grid 7 0.372 M4	Grid 8 0.312 M4	Grid 9 0.232 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.468A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		154 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:46:20 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA850_Low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 824.7 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.078 A/m; Power Drift = 0.145 dB

Maximum value of Total (measured) = 0.121 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		155 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.130 A/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.078 A/m; Power Drift = 0.145 dB

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

Peak H-field in A/m

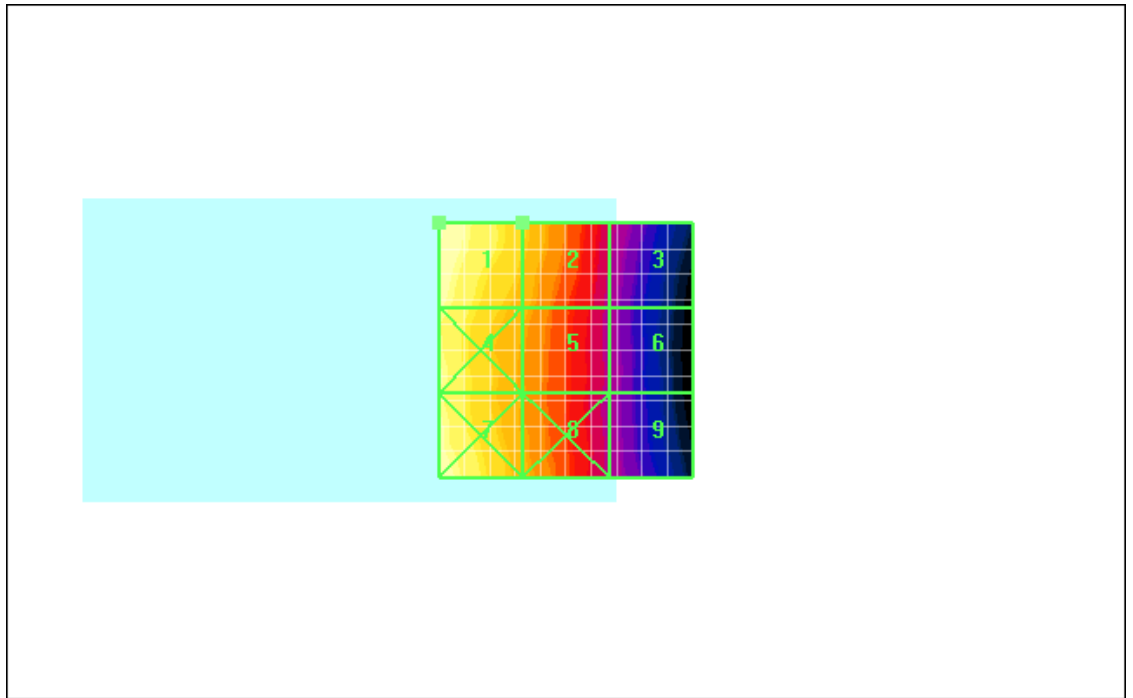
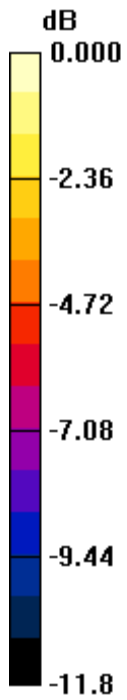
Grid 1 0.130 M4	Grid 2 0.101 M4	Grid 3 0.065 M4
Grid 4 0.121 M4	Grid 5 0.093 M4	Grid 6 0.062 M4
Grid 7 0.126 M4	Grid 8 0.093 M4	Grid 9 0.062 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.130A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		157 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:53:57 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA850_Mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 836.52 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = -0.149 dB

Maximum value of Total (measured) = 0.133 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		158 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.142 A/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = -0.149 dB

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

Peak H-field in A/m

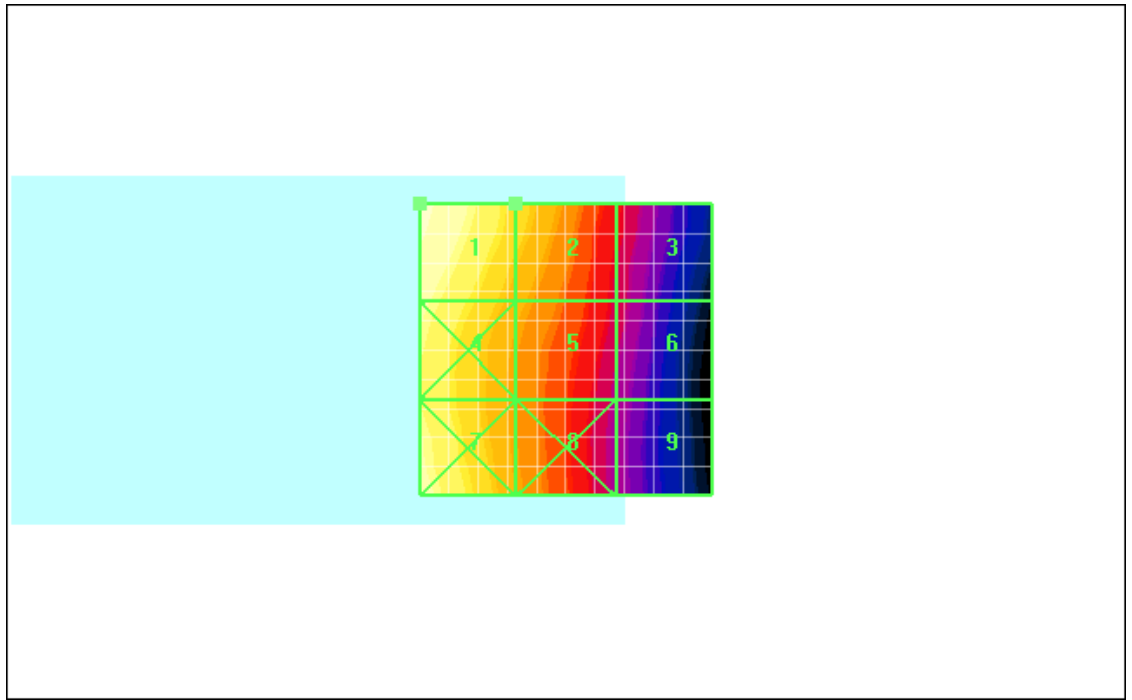
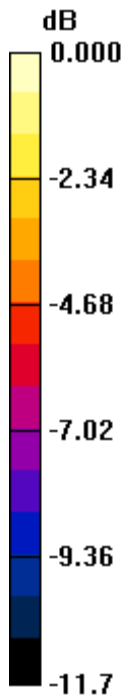
Grid 1 0.142 M4	Grid 2 0.113 M4	Grid 3 0.078 M4
Grid 4 0.133 M4	Grid 5 0.102 M4	Grid 6 0.073 M4
Grid 7 0.136 M4	Grid 8 0.100 M4	Grid 9 0.068 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.142A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		160 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:59:54 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA850_High_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 800; Frequency: 848.52 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.118 A/m; Power Drift = -0.094 dB

Maximum value of Total (measured) = 0.147 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		161 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 1.07

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.118 A/m; Power Drift = -0.094 dB

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

Peak H-field in A/m

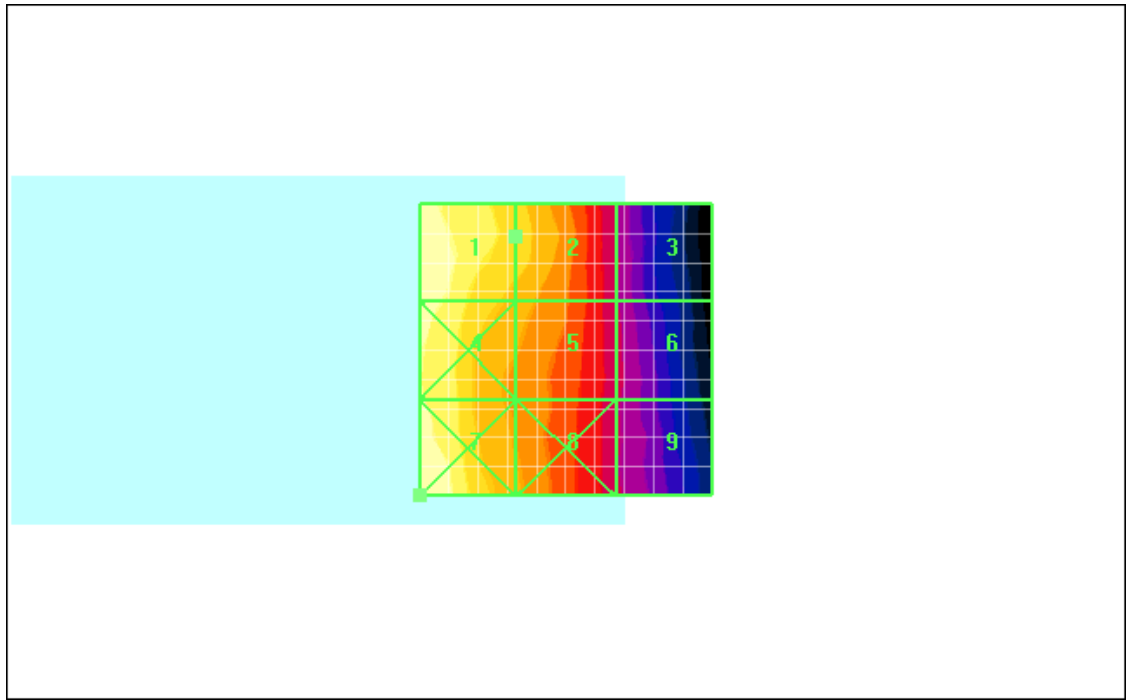
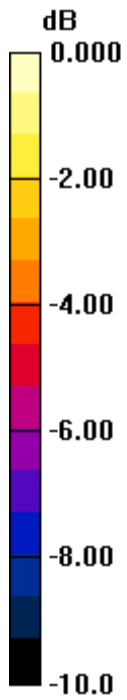
Grid 1	Grid 2	Grid 3
0.153 M4	0.130 M4	0.087 M4
Grid 4	Grid 5	Grid 6
0.148 M4	0.121 M4	0.088 M4
Grid 7	Grid 8	Grid 9
0.157 M4	0.117 M4	0.087 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.157A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		163 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:13:45 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_Low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.065 A/m; Power Drift = 0.043 dB

Maximum value of Total (measured) = 0.069 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		164 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.128 A/m

Probe Modulation Factor = 2.25

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = 0.043 dB

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

Peak H-field in A/m

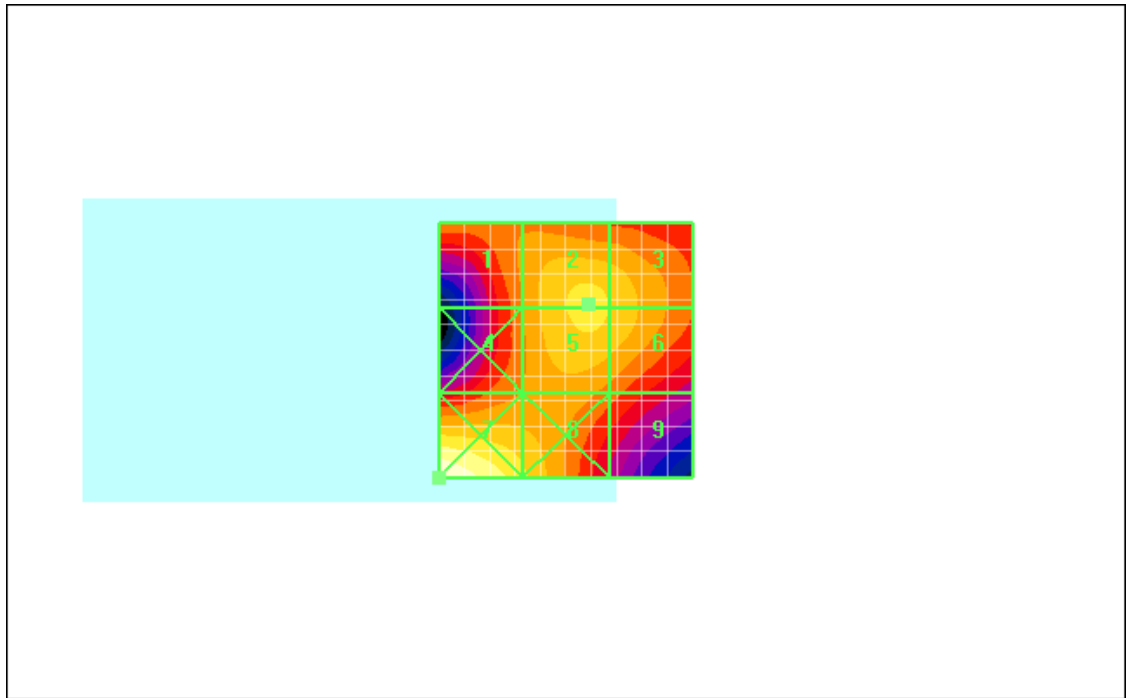
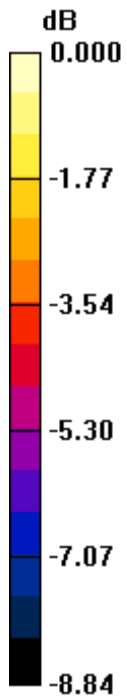
Grid 1	Grid 2	Grid 3
0.112 M4	0.128 M4	0.126 M4
Grid 4	Grid 5	Grid 6
0.111 M4	0.128 M4	0.126 M4
Grid 7	Grid 8	Grid 9
0.154 M3	0.128 M4	0.106 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.154A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		166 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:19:19 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_Mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.060 A/m; Power Drift = -0.038 dB

Maximum value of Total (measured) = 0.063 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		167 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.116 A/m

Probe Modulation Factor = 2.25

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.060 A/m; Power Drift = -0.038 dB

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

Peak H-field in A/m

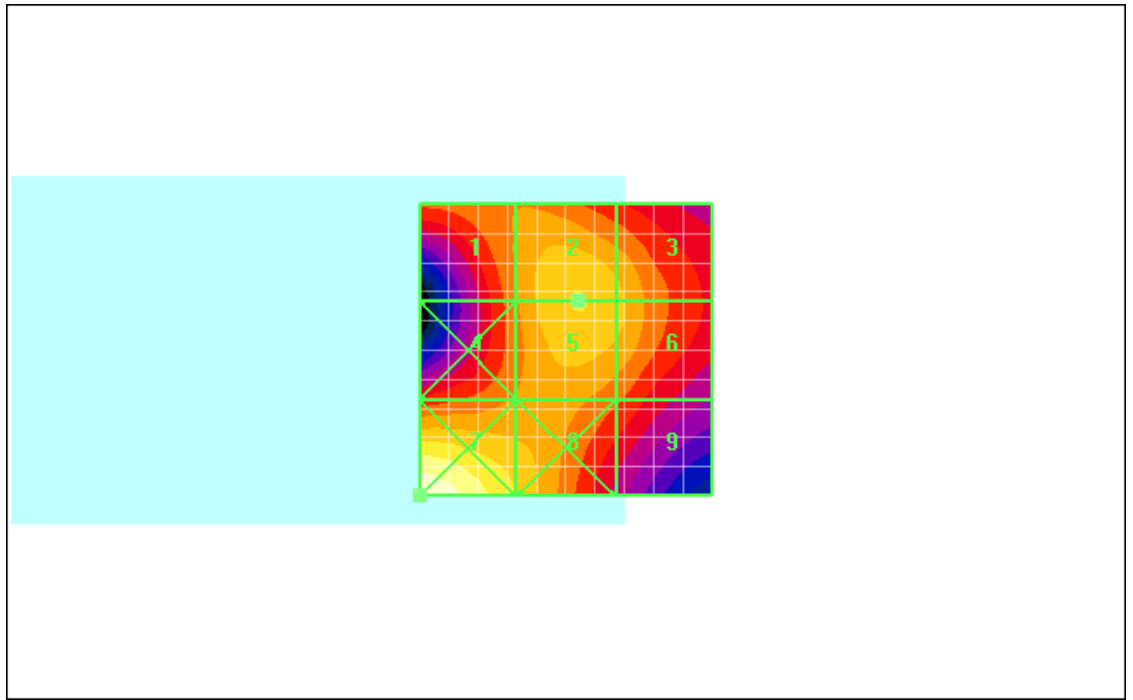
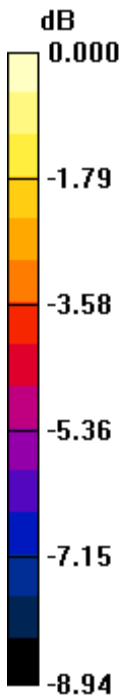
Grid 1	Grid 2	Grid 3
0.102 M4	0.116 M4	0.111 M4
Grid 4	Grid 5	Grid 6
0.102 M4	0.116 M4	0.111 M4
Grid 7	Grid 8	Grid 9
0.142 M3	0.116 M4	0.096 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.142A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		169 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 3:24:33 PM

Test Laboratory: RTS

File Name: [HAC_H_GSM1900_High_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: **Not Specified**

Program Name: HAC RF H3DV6 Device

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

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- 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 = 0.050 A/m; Power Drift = -0.069 dB

Maximum value of Total (measured) = 0.060 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		170 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.097 A/m

Probe Modulation Factor = 2.25

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = -0.069 dB

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

Peak H-field in A/m

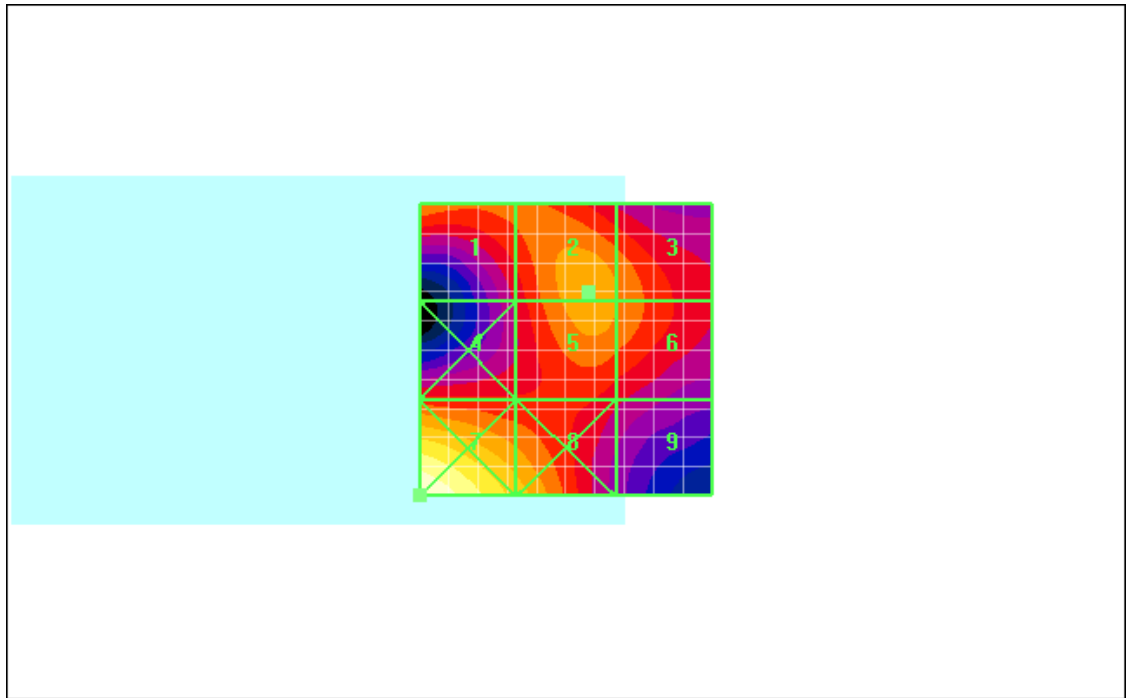
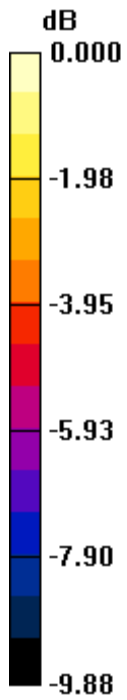
Grid 1	Grid 2	Grid 3
0.091 M4	0.097 M4	0.093 M4
Grid 4	Grid 5	Grid 6
0.082 M4	0.097 M4	0.093 M4
Grid 7	Grid 8	Grid 9
0.134 M4	0.104 M4	0.075 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.134A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		172 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 4:14:58 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA1900_Low_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; Frequency: 1851.25 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = -0.147 dB

Maximum value of Total (measured) = 0.108 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		173 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.077 A/m

Probe Modulation Factor = 0.930

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = -0.147 dB

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

Peak H-field in A/m

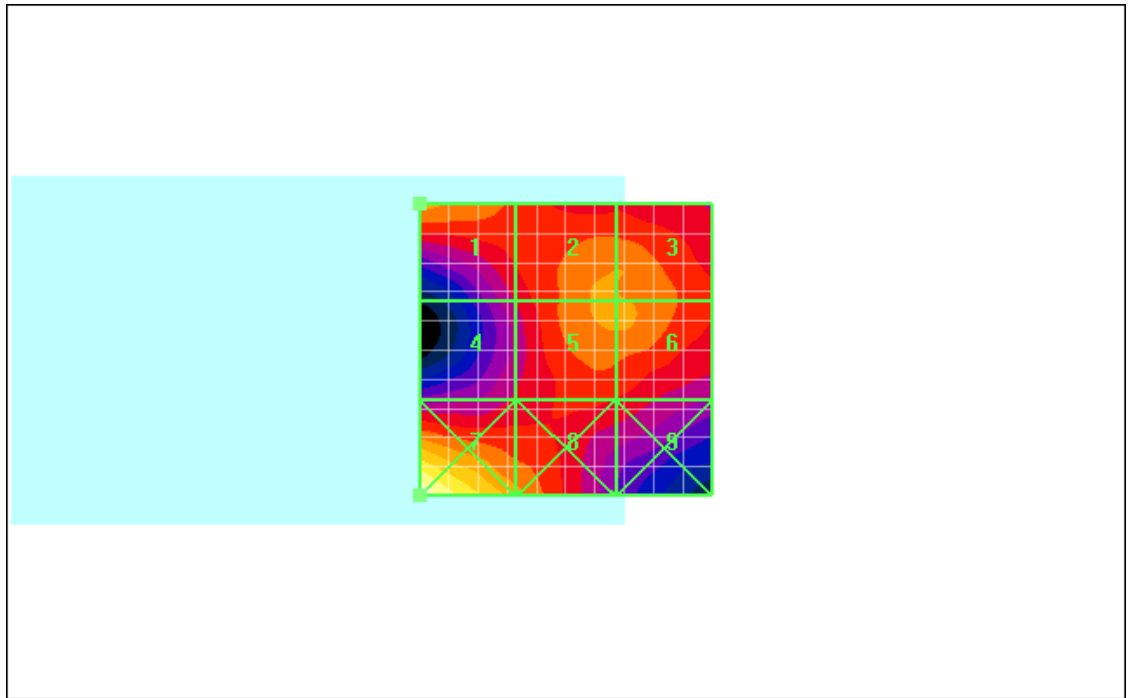
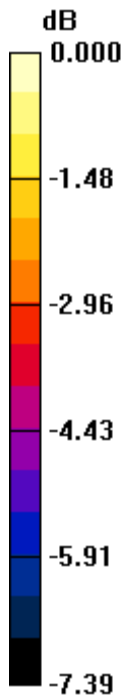
Grid 1	Grid 2	Grid 3
0.077 M4	0.076 M4	0.076 M4
Grid 4	Grid 5	Grid 6
0.064 M4	0.077 M4	0.077 M4
Grid 7	Grid 8	Grid 9
0.100 M4	0.077 M4	0.067 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.100A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		175 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 4:26:05 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA1900_Mid_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = 0.313 dB

Maximum value of Total (measured) = 0.098 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		176 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.075 A/m

Probe Modulation Factor = 0.930

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = 0.313 dB

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

Peak H-field in A/m

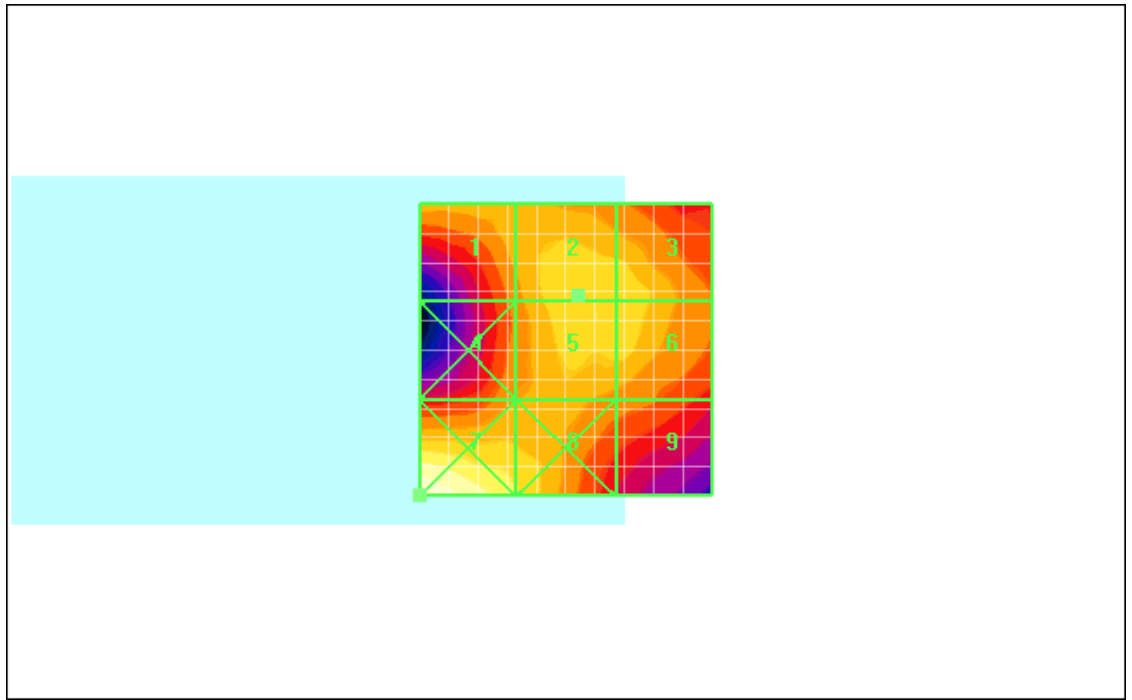
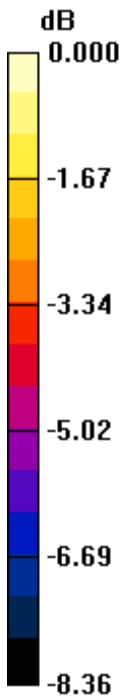
Grid 1	Grid 2	Grid 3
0.068 M4	0.075 M4	0.074 M4
Grid 4	Grid 5	Grid 6
0.066 M4	0.075 M4	0.074 M4
Grid 7	Grid 8	Grid 9
0.091 M4	0.075 M4	0.064 M4

Author Data
Daoud Attayi


Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.091A/m

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		178 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

Date/Time: 19/08/2009 4:31:59 PM

Test Laboratory: RTS

File Name: [HAC_H_CDMA1900_High_Chan.da4](#)

DUT: BlackBerry Smartphone; Type: Sample ; Serial: Not Specified

Program Name: HAC RF H3DV6 Device

Communication System: CDMA 1900; Frequency: 1908.5 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: 03/03/2009
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/03/2009
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

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

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

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.083 A/m; Power Drift = 0.122 dB

Maximum value of Total (measured) = 0.102 A/m

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

	Document		Page
	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RCK71CW		179 (180)
Author Data	Dates of Test	Report No	FCC ID
Daoud Attayi	Aug 10-21, 2009	RTS-1765-0908-16	L6ARCK70CW

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

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.070 A/m

Probe Modulation Factor = 0.930

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.083 A/m; Power Drift = 0.122 dB

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

Peak H-field in A/m

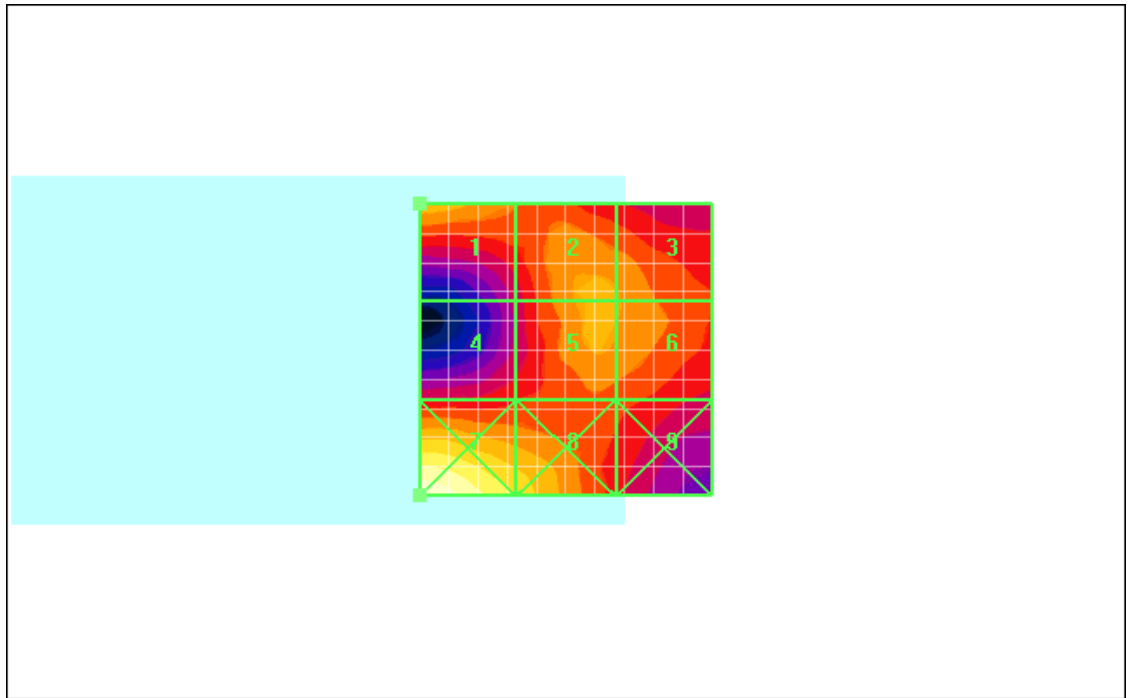
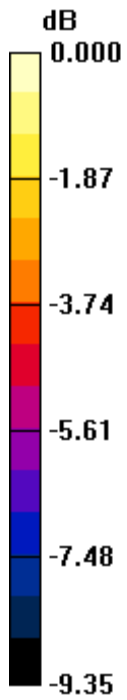
Grid 1	Grid 2	Grid 3
0.070 M4	0.068 M4	0.067 M4
Grid 4	Grid 5	Grid 6
0.057 M4	0.068 M4	0.067 M4
Grid 7	Grid 8	Grid 9
0.095 M4	0.076 M4	0.060 M4

Author Data
Daoud Attayi

Dates of Test
Aug 10-21, 2009

Report No
RTS-1765-0908-16

FCC ID
L6ARCK70CW



0 dB = 0.095A/m