

# EMI Test Report

Tested in accordance with  
Federal Communications Commission (FCC)  
Personal Communications Services  
CFR 47, Part 15 Subpart C  
&  
Industry Canada (IC) RSS-210, RSS-GEN




**A division of Research In Motion Limited**

**REPORT NO.:** RTS-1689-1007-17

**PRODUCT MODEL NO.:** RCN72UW  
**TYPE NAME:** BlackBerry® smartphone  
**FCC ID:** L6ARCN70UW  
**IC:** 2503A-RCN70UW

**DATE:** July 07, 2010

		EMI Test Report for the BlackBerry® smartphone Model RCN72UW
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

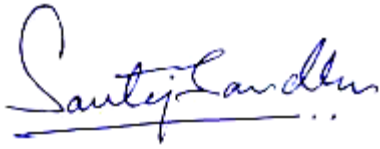
**Statement of Performance:**

The BlackBerry® smartphone, model RCN72UW, part number CER-33222-001 Rev. 1, and its accessories perform within the requirements of the test standards when configured and operated under RIM's operation instructions.

**Declaration:**

We hereby certify that:  
The test data reported herein is an accurate record of the performance of the sample(s) tested.  
The test results are valid for the tested unit (s) only.  
The test equipment used was suitable for the tests performed and within manufacturer's published specifications and operating parameters.  
The test methods were consistent with the methods described in the relevant standards.

Documented by:



Savtej S. Sandhu  
Regulatory Compliance Specialist  
Date: July 07, 2010

Reviewed by:




Michael Cino  
Regulatory Compliance Associate  
Date: July 15, 2010

Reviewed and Approved by:



Masud S. Attayi, P.Eng.  
Manager, Regulatory Compliance  
Date: July 30, 2010

		EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW	

### Table of Contents

A. Scope.....4

B. Associated Documents .....4

C. Product Identification .....4

D. Support Equipment Used for the Testing of the EUT.....5


E. Test Results Chart .....6

F. Summary of Results.....7

G. Compliance Test Equipment Used .....9

APPENDIX 1 – AC CONDUCTED EMISSIONS TEST DATA/PLOTS .....10

APPENDIX 2 – BLUETOOTH AND 802.11b/g RADIATED EMISSIONS TEST DATA.....17

		EMI Test Report for the BlackBerry® smartphone Model RCN72UW
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

## A. Scope

This report details the results of compliance tests which were performed in accordance to the requirements of:

- o FCC CFR 47 Part 15, Subpart C, October, 2009
- o Industry Canada, RSS-210, Issue 7, June 2007, Low Power Licence-Exempt Radiocommunication Devices
- o Industry Canada, RSS-GEN, Issue 2, June 2007, General Requirements and Information for the Certification of Radiocommunication Equipment

## B. Associated Documents

1. 9700 – 9780 Differences
2. RTS-1689-0907-11
3. RTS-1689-0909-29
4. RTS-1689-1007-14

## C. Product Identification

Manufactured by Research In Motion Limited whose headquarters is located at:

295 Phillip Street  
Waterloo, Ontario  
Canada, N2L 3W8  
Phone: 519 888 7465  
Fax: 519 888 6906


The equipment under test (EUT) was tested at the following locations:

RIM Testing Services EMI test facilities

305 Phillip Street  
Waterloo, Ontario  
Canada, N2L 3W8  
Phone: 519 888 7465  
Fax: 519 888 6906

440 Phillip Street  
Waterloo, Ontario  
Canada, N2L 5R9  
Phone: 519 888 7465  
Fax: 519 888 6906

The testing was performed from June 14 to July 05, 2010.

		EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW	

The sample EUT included:

SAMPLE	MODEL	CER NUMBER	PIN	Software
1a	RCN72UW	CER-33222-001 Rev. 1	226DC9F4	V6.0.0.68 (Platform 6.5.0.6) Bundle 142
1b	RCN72UW	CER-33222-001 Rev. 1	226DC9F4	MFI V6.5.0.5
2	RCN72UW	CER-33222-001 Rev. 1	226DCA28	V6.0.0.68 (Platform 6.5.0.6) Bundle 142

Samples 1a and 1b were used for AC Line Conducted Emissions testing.

Samples 1a, 1b and 2 were used for Radiated Emissions testing.


Only the characteristics that may have been affected by the changes from RCN71UW to RCN72UW have been re-tested. For more information, see 9700 – 9780 Differences.

#### BlackBerry® smartphone Accessories Tested

- 1) Fixed Blade Charger, part number HDW-24481-001 (Model Number RIM-C-4ADUUS-001), with an output voltage of 5.0 volts DC, 700 mA.
- 2) Alternate Fixed Blade Charger, part number HDW-24481-001 (Model Number PSM04A-050QRIM), with an output voltage of 5.0 volts DC, 700 mA.
- 3) Captive Cable Charger, part number HDW-17957-003, with an output voltage of 5.0 volts DC, 700 mA.
- 4) Premium Stereo Headset, part number HDW-15766-005, with a lead length of 1.3 metres.
- 5) Bluetooth Headset, part number HDW-23439-001.
- 6) Charging Pod, part number HDW-24476-001.
- 7) USB Data Cable, part number HDW-28109-003, 1.30 metres long.
- 8) USB Data Cable, part number HDW-06610-005, 1.50 metres long.


#### **D. Support Equipment Used for the Testing of the EUT**

No support equipment used. See section *G. Compliance Test Equipment Used*.

		EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW	

## E. Test Results Chart

SPECIFICATION		TEST TYPE	Meets Requirements	TEST DATA
FCC CFR 47	IC			APPENDIX
Part 15.207	RSS-210 RSS-GEN	Conducted AC Line Emission	Pass	1
Part 15.209 Part 15.247	RSS-210 RSS-GEN	BT Radiated Spurious Emissions	Pass	2
Part 15.209 Part 15.247	RSS-210 RSS-GEN	BT Radiated Band Edge Compliance	See Test Report RTS-1689-1007-14	-
Part 15.209 Part 15.247	RSS-210 RSS-GEN	802.11 b/g Radiated Spurious Emissions	Pass	2
Part 15.209 Part 15.247	RSS-210 RSS-GEN	802.11 b/g Radiated Band Edge Compliance	See Test Report RTS-1689-1007-14	-
Part 15.247(a)	RSS-210	BT, 20 dB Bandwidth	See Test Report RTS-1689-0909-29	-
Part 15.247(a)	RSS-210	BT, Carrier Frequency Separation	See Test Report RTS-1689-0909-29	-
Part 15.247(a)	RSS-210	BT, Number of Hopping Frequencies	See Test Report RTS-1689-0909-29	-
Part 15.247(a)	RSS-210	BT, Time of Occupancy (Dwell Time)	See Test Report RTS-1689-0909-29	-
Part 15.247(b)	RSS-210	BT, Maximum Peak Conducted Output Power	See Test Report RTS-1689-0909-29	-
Part 15.247(c)	RSS-210	BT, Band-Edge Compliance of RF Conducted Emissions	See Test Report RTS-1689-0909-29	-
Part 15.247(c)	RSS-210	BT, Spurious RF Conducted Emissions	See Test Report RTS-1689-0909-29	-
Part 15.247(b)	RSS-210	802.11b/g, 6 dB Bandwidth	See Test Report RTS-1689-0907-11	-
Part 15.247(b)	RSS-210	802.11b/g, Maximum Conducted Output Power	See Test Report RTS-1689-0907-11	-
Part 15.247(b)	RSS-210	802.11b/g, Band-Edge	See Test Report RTS-1689-0907-11	-
Part 15.247(b)	RSS-210	802.11b/g, Peak Power Spectral Density	See Test Report RTS-1689-0907-11	-
Part 15.247(b)	RSS-210	802.11b/g, Spurious RF Conducted Emissions	See Test Report RTS-1689-0907-11	-

			EMI Test Report for the BlackBerry® smartphone Model RCN72UW		
<b>Test Report No.</b> RTS-1689-1007-17		<b>Dates of Test</b> June 14 to July 05, 2010		FCC ID: L6ARCN70UW IC: 2503A-RCN70UW	

## F. Summary of Results

### 1) AC LINE CONDUCTED EMISSIONS

The conducted emissions were measured using the test procedure outlined in CISPR Recommendation 22 through a 50 Ohm Line Impedance Stabilization Network (LISN), which was inserted in the power line to the equipment to provide the specified impedance for measurements. The EUT was placed on a nonconductive wooden table, 80 cm high that was positioned 40 cm from a vertical ground plane. The RF output of the network was connected to an EMI receiver system with characteristics that duplicate those of the receiver specified in CISPR Publication 16.

BlackBerry® smartphone was in battery charging mode. The input voltage was 120 V, 60 Hz.


The following test configurations were measured:

Test Configuration	Operating Mode(s)	Charger + Accessories
1	802.11b Tx	Fixed Blade Charger + POD + Premium Stereo Headset + 1.3m USB cable
2	Bluetooth Tx, Audio Playback	Alternate Fixed Blade Charger + POD + Bluetooth Headset + 1.5m USB Cable
3	Bluetooth Tx, Video Playback	Captive Cable Charger + POD + Premium Stereo Headset

The sample EUT's conducted emissions were compared with respect to the FCC CFR 47 Part 15, Subpart C and IC RSS-210 limits. The sample EUT had a worst case test margin of 8.75 dB below the QP limit at 2.274 MHz using the quasi-peak detector with the Captive Cable Charger in Test Configuration 3.

See APPENDIX 1 for the test data

### Measurement Uncertainty $\pm 3.0$ dB

	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
	<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010

## 2) RADIATED EMISSIONS

### Radiated Spurious and Harmonic Emissions

The EUT was placed on a nonconductive styrofoam table, 80 cm high that was positioned on a remotely controlled turntable. The test distance used between the EUT and the receiving antenna was three metres. The turntable was rotated to determine the azimuth of the peak emissions. Then the emissions were maximized by elevating the antenna in the range of 1 to 4 metres. The maximum emission level was recorded. The frequency range measured was from 30 MHz to 25.0 GHz. Both the horizontal and vertical polarizations of the emissions were measured.

The measurements were done in a semi-anechoic chamber (SAC) below 1 GHz and a fully-anechoic room (FAR) above 1 GHz. The SAC's FCC registration number is **778487** and the Industry Canada (IC) file number is **2503B-1**. The FAR's FCC registration number is **959115** and the IC file number is **2503C-1**.

The EUT was configured and operated to produce the maximum radiated emissions while still keeping within RIM's specifications.

The BlackBerry® smartphone was measured in standalone configuration with Bluetooth transmitting in single frequency mode at middle channel (39) for packet type "DH5". The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15, Subpart C, 15.247 and RSS-210.

The BlackBerry® smartphone was measured in standalone configuration transmitting at channel 6 at 1 Mbps for 802.11b mode. The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15 Subpart C, 15.247 and RSS-210.


The Bluetooth harmonics were investigated up to the 10th harmonic. The sample EUT emissions were in the noise floor (NF).

The 802.11b/g harmonics were investigated up to the 10th harmonic. The sample EUT emissions were in the noise floor (NF).

See APPENDIX 2 for the test data


### **Measurement Uncertainty ±4.6 dB**




	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

## G. Compliance Test Equipment Used

<u>UNIT</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SERIAL NUMBER</u>	<u>CAL DUE DATE</u> (YY MM DD)	<u>USE</u>
EMI Test Receiver	Rohde & Schwarz	ESIB 40	100255	10-12-01	Conducted/Radiated Emissions
EMI Test Receiver	Rohde & Schwarz	ESU 40	100162	10-11-29	Conducted/Radiated Emissions
Hybrid Log Antenna	EMC Automation	HLP-3003C	017401	10-09-26	Radiated Emissions
Horn Antenna	CMT	LHA 0180	R52734-001	12-01-21	Radiated Emissions
Horn Antenna	ETS-Lindgren	3117	47563	11-07-15	Radiated Emissions
Preamplifier	Rohde & Schwarz	TS-ANA4-SP	001	11-02-17	Radiated Emissions
Preamplifier	Sonoma	310N/11909A	185831	10-11-14	Radiated Emissions
Preamplifier	Rohde & Schwarz	TS-ANA-SP	001	11-02-19	Radiated Emissions
L.I.S.N.	Rohde & Schwarz	ENV216	100060	10-12-11	Conducted Emissions
Environment Monitor	Control Company	1870	230355190	11-01-08	Radiated Emissions
EMC Analyzer	Agilent	E7405A	US40240226	10-12-10	Radiated Emissions
Bluetooth Tester	Rohde & Schwarz	CBT35	100368	10-11-25	Radiated Emissions
Bluetooth Tester	Rohde & Schwarz	CBT35	100370	10-11-26	Radiated Emissions
Digital Multimeter	Hewlett Packard	34401A	US36042324	10-10-08	Conducted/Radiated Emissions
Environment Monitor	Control Company	1870	230355159	11-01-08	Radiated Emissions

	EMI Test Report for the BlackBerry® smartphone Model RCN72UW <b>APPENDIX 1</b>	
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

## APPENDIX 1 – AC CONDUCTED EMISSIONS TEST DATA/PLOTS

	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
	<b>APPENDIX 1</b>	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

### AC Conducted Emission Test Results

The following tests were performed by Savtej Sandhu.

#### Test Configuration 1

The BlackBerry® smartphone was tested on July 01, 2010.

The environmental test conditions were: Temperature: 23 °C  
Pressure: 1028 mb  
Relative Humidity: 25 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.182	L1	32.50	10.99	43.48	64.42	54.42	-20.93
0.182	N	35.29	11.01	46.31	64.42	54.42	-18.11
0.195	N	31.90	10.92	42.82	63.82	53.82	-21.00
0.204	N	30.34	10.85	41.20	63.45	53.45	-22.25
0.218	L1	27.84	10.73	38.57	62.91	52.91	-24.34
0.231	L1	28.91	10.64	39.55	62.41	52.41	-22.86
3.494	N	23.09	9.89	32.98	56.00	46.00	-23.02
4.416	L1	23.92	9.91	33.83	56.00	46.00	-22.17
4.421	N	24.07	9.91	33.98	56.00	46.00	-22.02

All other emission levels had a test margin of greater than 25 dB.

Measurements were done with the quasi-peak detector.

See figure 1-1 and figure 1-2 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

## AC Conducted Emissions Test Graphs

### Test Configuration 1

Figure 1-1: L1 lines

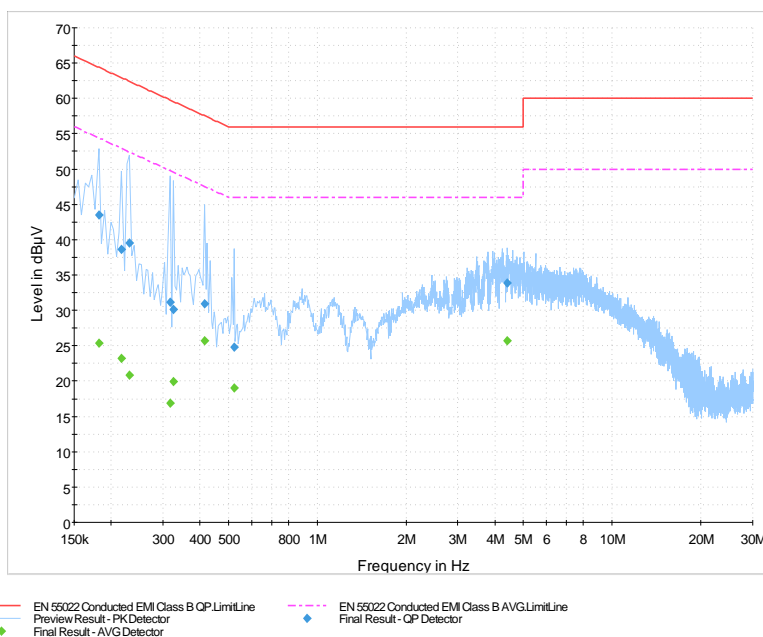
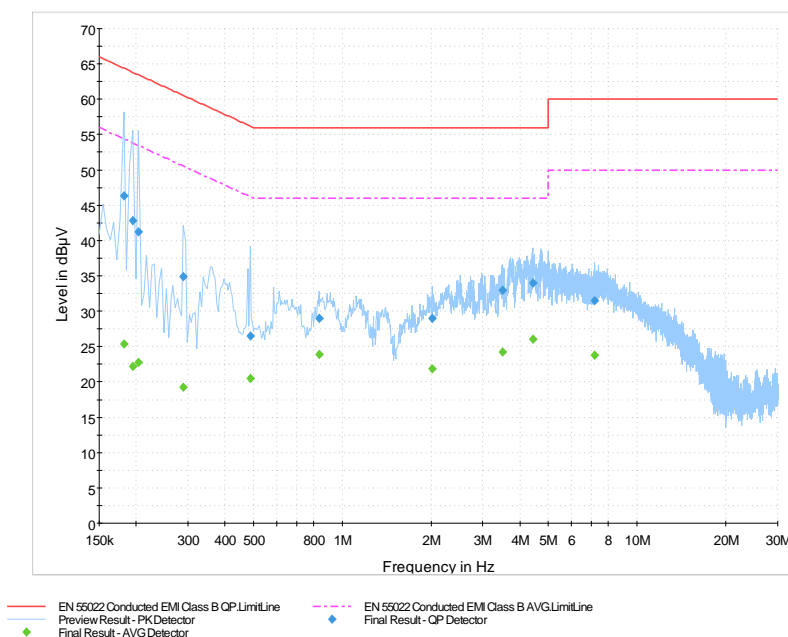


Figure 1-2: N Lines



Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW
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AC Conducted Emission Test Results

Test Configuration 2

The BlackBerry® smartphone was tested on July 01, 2010.

The environmental test conditions were: Temperature: 23 °C  
 Pressure: 1028 mb  
 Relative Humidity: 25 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.150	N	44.42	11.23	55.66	66.00	56.00	-10.34
0.155	L1	44.83	11.17	56.00	65.75	55.75	-9.75
0.164	L1	43.45	11.11	54.56	65.28	55.28	-10.72
0.173	N	42.34	11.08	53.42	64.84	54.84	-11.42
0.177	L1	42.76	11.02	53.77	64.63	54.63	-10.85
0.182	N	41.71	11.01	52.73	64.42	54.42	-11.69
0.191	L1	41.78	10.92	52.70	64.01	54.01	-11.32
0.218	L1	38.87	10.73	49.60	62.91	52.91	-13.31
0.236	L1	37.04	10.61	47.64	62.25	52.25	-14.61
0.267	L1	36.03	10.39	46.42	61.21	51.21	-14.79
0.272	N	34.96	10.38	45.34	61.07	51.07	-15.73
0.281	L1	35.85	10.29	46.14	60.80	50.80	-14.66
0.281	N	34.32	10.31	44.63	60.80	50.80	-16.17
0.366	L1	32.06	10.06	42.12	58.59	48.59	-16.47
0.366	N	31.56	10.08	41.64	58.59	48.59	-16.95
0.375	L1	30.90	10.05	40.95	58.39	48.39	-17.44
0.497	N	25.08	9.92	35.00	56.06	46.06	-21.05
0.528	L1	23.98	9.89	33.87	56.00	46.00	-22.13
0.596	N	22.92	9.87	32.79	56.00	46.00	-23.21
13.403	L1	25.69	10.07	35.76	60.00	50.00	-24.24
13.443	N	26.30	10.08	36.38	60.00	50.00	-23.62

All other emission levels had a test margin of greater than 25 dB.

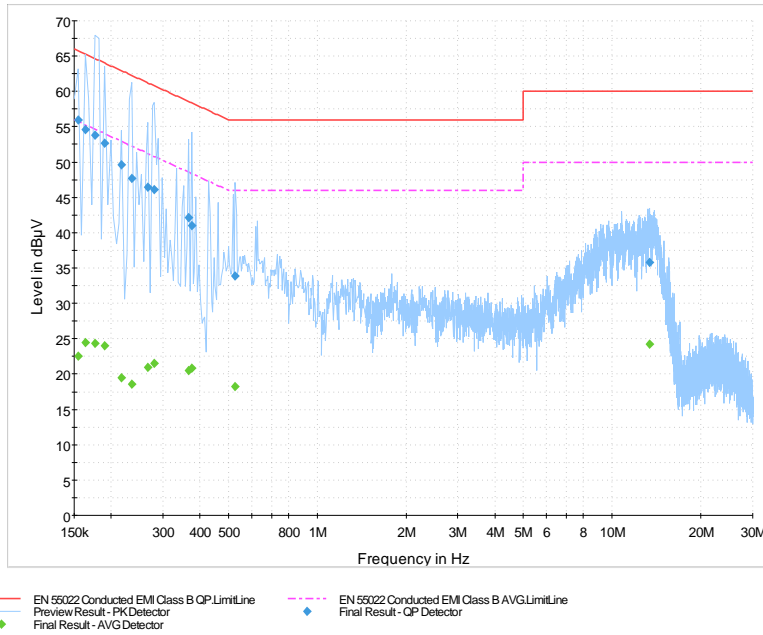
Measurements were done with the quasi-peak detector.

See figure 1-3 and figure 1-4 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

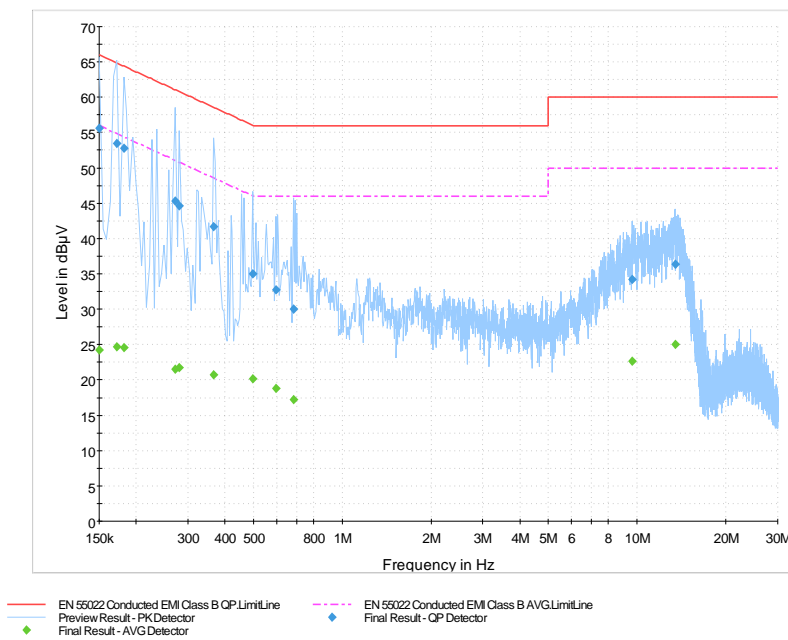
AC Conducted Emissions Test Graphs


Test Configuration 2

**Figure 1-3: L1 lines**



**Figure 1-4: N Lines**



	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
	<b>APPENDIX 1</b>	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

### AC Conducted Emission Test Results

#### Test Configuration 3

The BlackBerry® smartphone was tested on July 01, 2010.

The environmental test conditions were: Temperature: 23 °C  
Pressure: 1028 mb  
Relative Humidity: 25 %

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.177	L1	38.70	11.02	49.72	64.63	54.63	-14.91
0.182	N	28.57	11.01	39.58	64.42	54.42	-24.84
0.186	L1	30.55	10.95	41.50	64.21	54.21	-22.71
0.272	N	27.07	10.38	37.44	61.07	51.07	-23.63
0.456	L1	30.18	9.93	40.11	56.77	46.77	-16.65
0.456	N	30.16	9.94	40.10	56.77	46.77	-16.67
0.893	N	28.95	9.82	38.76	56.00	46.00	-17.24
1.590	L1	32.74	9.81	42.55	56.00	46.00	-13.45
2.031	N	35.69	9.83	45.52	56.00	46.00	-10.49
2.144	L1	36.17	9.83	46.00	56.00	46.00	-10.00
2.274	N	37.41	9.84	47.25	56.00	46.00	<b>-8.75</b>
2.540	N	36.89	9.86	46.75	56.00	46.00	-9.25
2.666	L1	36.48	9.86	46.34	56.00	46.00	-9.66
3.422	L1	32.44	9.89	42.33	56.00	46.00	-13.67
4.236	N	32.68	9.91	42.59	56.00	46.00	-13.41
6.792	N	31.25	9.95	41.20	60.00	50.00	-18.80
9.402	L1	32.75	9.97	42.72	60.00	50.00	-17.28

All other emission levels had a test margin of greater than 25 dB.

Measurements were done with the quasi-peak detector.

See figure 1-5 and figure 1-6 for the measurement plot of the L1 and N lines of AC power line conducted emissions.

## AC Conducted Emissions Test Graphs

### Test Configuration 3

Figure 1-5: L1 lines

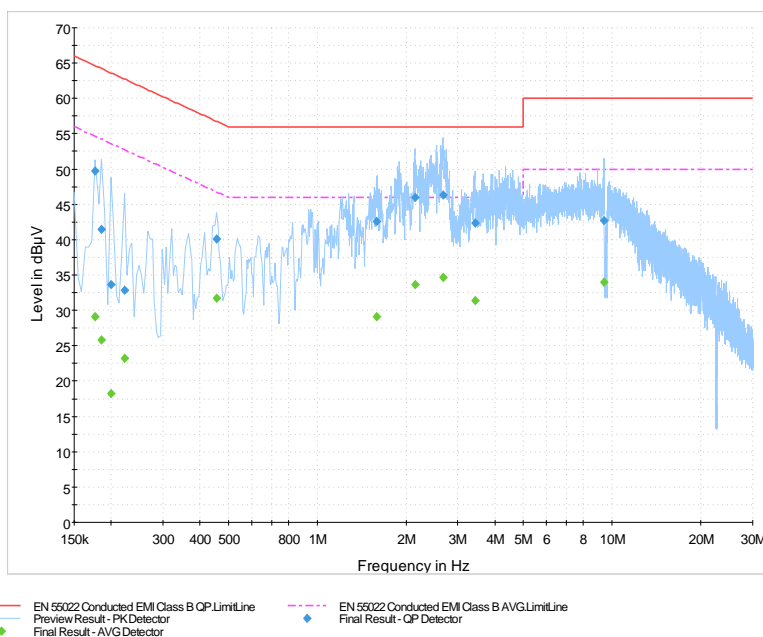
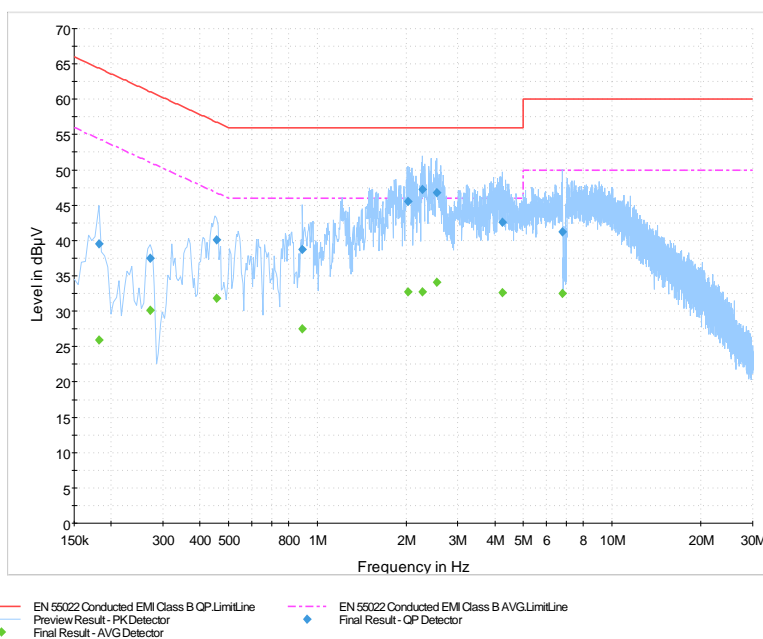




Figure 1-6: N Lines





	EMI Test Report for the BlackBerry® smartphone Model RCN72UW <b>APPENDIX 2</b>	
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARC70UW IC: 2503A-RCN70UW

**APPENDIX 2 – BLUETOOTH AND 802.11b/g RADIATED EMISSIONS TEST DATA**

	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
	<b>APPENDIX 2</b>	
Test Report No. RTS-1689-1007-17	Dates of Test June 14 to July 05, 2010	FCC ID: L6ARC70UW IC: 2503A-RCN70UW

Radiated Emissions Test Results  
Bluetooth Band

Date of Test: June 17, 2010  
Measurements were performed by Fahd Faisal.

The environmental test conditions were: Temperature: 23 °C  
Pressure: 1014 mb  
Relative Humidity: 31 %

The test distance was 3.0 metres with a EUT height of 0.8 metres, and sweep frequency of 30 MHz to 1 GHz.

The BlackBerry® smartphone in Bluetooth Tx mode was in standalone, vertical position.

The frequency sweep measurements were performed in single frequency mode on channel 39 using packet type “DH5”.

All emissions had a test margin of greater than 25.0 dB.

Date of Test: June 14 to 23, 2010  
Measurements were performed by Steven Wang.


The environmental test conditions were: Temperature: 24 °C  
Pressure: 1023 mb  
Relative Humidity: 25 %

The test distance was 3.0 metres with a EUT height of 0.8 metres, and sweep frequency of 1GHz to 25GHz.

The BlackBerry® smartphone in Bluetooth Tx mode was in standalone, vertical position.

The frequency sweep measurements were performed in single frequency mode on channel 39 using packet type “DH5”.

All emissions had a test margin of greater than 25.0 dB.

	EMI Test Report for the BlackBerry® smartphone Model RCN72UW	
	<b>APPENDIX 2</b>	
<b>Test Report No.</b> RTS-1689-1007-17	<b>Dates of Test</b> June 14 to July 05, 2010	FCC ID: L6ARCN70UW IC: 2503A-RCN70UW

Radiated Emissions Test Results cont'd  
802.11b Band

Date of Test: June 22, 2010

The environmental test conditions were: Temperature: 22 °C  
Pressure: 1000 mb  
Relative Humidity: 23 %

The test distance was 3.0 metres with a EUT height of 0.8 metres, and sweep frequency of 30 MHz to 1 GHz.

The BlackBerry® smartphone in 802.11b Tx mode was in standalone, USB-up position.

The frequency sweep measurements were performed in single frequency mode at 1 Mbps on channel 6.

All emissions had a test margin of greater than 25.0 dB.

Date of Test: June 22, 2010

The environmental test conditions were: Temperature: 23 °C  
Pressure: 10 mb  
Relative Humidity: 32 %

The test distance was 3.0 metres with a EUT height of 0.8 metres, and sweep frequency of 1GHz to 25GHz.

The BlackBerry® smartphone in 802.11b Tx mode was in standalone, USB-up position.

The frequency sweep measurements were performed in single frequency mode at 1 Mbps on channel 6.

All emissions had a test margin of greater than 25.0 dB.