EMI Test Report

Tested in accordance with
Federal Communications Commission (FCC)
Personal Communications Services
CFR 47, Parts 15, Subpart B
&
Industry Canada (IC), ICES-003

RIM Testing Services (RTS)

A division of Research In Motion Limited

REPORT NO.: RTS-1115-0809-01

PRODUCT MODEL NO.: RBZ41GW
TYPE NAME: BlackBerry® smartphone
FCC ID: L6ARBZ40GW
IC: 2503A-RBZ40GW

DATE: 30 September, 2008

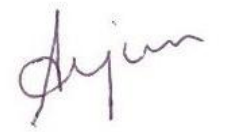
Statement of Performance:

The BlackBerry® smartphone, model RBZ41GW, part number CER-17672-001 Rev. 4, and accessories when configured and operated per RIM's operation instructions, perform within the requirements of the test standards.

Declaration:

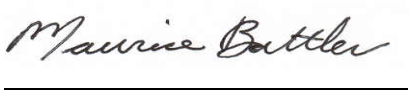
We hereby certify that:
The test data reported herein is an accurate record of the performance of the sample(s) tested.
The test results are valid for the tested unit (s) only.
The test equipment used was suitable for the tests performed and within manufacturer's published specifications and operating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

Documented by:



Arjun Singh Rai Bhatti
Compliance Specialist
Date: 02 October, 2008

Reviewed by:



Maurice Battler
Compliance Specialist
Date: 02 October, 2008

Reviewed by:

Masud S. Attayi, P.Eng.
Team Lead, Regulatory Compliance
Date: 03 October, 2008

Approved by:

Paul G. Cardinal, Ph.D.
Director
Date: 03 October, 2008

Table of Contents

A. Scope

This report details the results of compliance tests that were performed in accordance with the requirements of:

- FCC CFR 47 Part 15, Subpart B, July 10, 2008 Class B Digital Devices, Unintentional Radiators
- IC ICES-003 Issue 4, February 2004, Class B Digital Devices, Unintentional Radiators

B. Associated Documents

1. Document number RTS-1114-RBZ41GW-01
2. Document number RTS-1114-RBZ41GW-02

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 RIM Testing Services (RTS) EMI test facilities, located at:

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 on August 01 to October 02, 2008.

The sample EUT included:

SAMPLE	MODEL	CER NUMBER	PIN
1	RBZ41GW	CER-17672-001 Rev 2	20761A98
2	RBZ41GW	CER-17672-001 Rev 3	20761806
3	RBZ41GW	CER-17672-001 Rev 4	207BBCB4

To view the differences between CER-17672-001 Rev 2 to CER-17672-001 Rev. 3, see document number RTS-1114-RBZ41GW-01.
To view the differences between CER-17672-001 Rev 3 to CER-17672-001 Rev. 4, see document number RTS-1114-RBZ41GW-02.

The changes from Rev 2 to Rev 4 had no effect on the measurement results in this report.

BlackBerry® smartphone Accessories Tested

1) Folding Blade Charger, part number HDW-19129-001 with an output voltage of 5.0 volts dc, 700 mA with an attached USB cable with a length of 1.80 metres.
2) Captive Cable Charger part number HDW-17957-003 with an output voltage of 5.0 volts dc, 700 mA and attached USB cable with a lead length of 1.80 meters.
3) USB Data Cable, part number HDW-06610-09, model 6191-10AL-0180, 1.00 metre long.
4) Stereo Headset, 3.5 mm, part number HDW-14322-003, 1.3 metres long.
5) Premium Single Button Stereo Headset, 3.5 mm, part number HDW-15766-005, 1.3 meters long.
6) Premium Multi-Button Stereo Headset, 3.5 mm, part number HDW-15765-001, 1.3 meters long.
7) Premium Mono Headset, 3.5 mm part number HDW-17906-001, 1.3 meters long
8) BlackBerry® Charging Pod, part number HDW-14390-001
9) BlackBerry® Remote Stereo Gateway, part number ASY-16007-001
10) External Battery Charger, (EBC), part number HDW-19137-001.
11) USB Y-Cable, part number HDW-19137-002, lead lengths of 26 cm and 11 cm

D. Support Equipment Used for the Testing of the EUT

1) IBM Thinkpad Lenovo T60p laptop, type 8742, product ID 8742C2U

E. Modifications to EUT

No modifications were required on the EUT.

F. Summary of Results

SPECIFICATION		TEST TYPE	Meets Requirement	TEST DATA APPENDIX
FCC CFR 47	IC			
Part 15, Subpart B	ICES-003	Conducted AC Line Emission	Yes	1
Part 15, Subpart B	ICES-003	Radiated Unintentional Spurious Emissions	Yes	2

a) CONDUCTED AC LINE 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:

1. The BlackBerry® smartphone PIN 207BBCB4 in PCS idle mode positioned in the Charging Pod with the 3.5 mm Premium Single Button Headset attached was connected to the External Battery Charger and the Captive Cable Charger via the USB Y Cable.
2. The BlackBerry® smartphone PIN 20761806 in GSM idle mode with the 3.5 mm Stereo Headset attached was connected to the Folding Blade Charger.
3. The BlackBerry® smartphone PIN 207BBCB4 in GPS Receive mode with the 3.5 mm Stereo Headset attached was connected to the Captive Cable Charger.

The sample EUT's conducted emissions were compared with respect to the FCC CFR 47 Part 15, Subpart B, and IC ICES-003, Class B limit. The sample EUT had a worse case test margin of 10.04 dB below the QP limit at 2.513 MHz using the quasi-peak detector for the Captive Cable Charger, test configuration 1.

Measurement Uncertainty ±3.0 dB
To view the test data/plots, see APPENDIX 1.

b) RADIATED EMISSIONS

The radiated emissions from the EUT were measured using the methods outlined in CISPR Recommendation 22. The EUT was placed on a nonconductive styrofoam table, 80 cm high that was positioned on a remote 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 5.0 GHz. Both the horizontal and vertical polarizations of the emissions were measured.
The measurements were done in a semi-anechoic chamber and a fully-anechoic room (FAR). The semi-anechoic chamber 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 in battery charging mode for all configurations. The ac input voltage was 120V, 60Hz.

The following test configurations were measured:
1. The BlackBerry® smartphone, PIN 20761A98 in GSM850 idle mode with the 3.5 mm Premium Mono Headset was sitting in the Charging Pod which was connected to the Folding Blade Charger. The BlackBerry® smartphone was connected to the laptop through the USB Cable with data transfer.
2. The BlackBerry® smartphone, PIN 20761A98 in PCS idle mode and transmitting to the Bluetooth Stereo Gateway connected to the laptop through the USB cable. The BlackBerry® smartphone was connected to the Folding Blade Charger.
3. The BlackBerry® smartphone, PIN 207BBCB4 in 802.11b/g Tx mode with the 3.5 mm Premium Multi-Button Stereo Headset was sitting in the Charging Pod which was connected to the Captive Cable Charger.
4. The BlackBerry® smartphone, PIN 20761A98 in GSM850 idle mode with audio playing with the Premium Single Button Stereo Headset sitting in the Charging Pod which was connected to the Folding Blade Charger.
5. The BlackBerry® smartphone, PIN 207BBCB4 in GPS Rx mode was connected to the Captive Cable Charger.
6. The BlackBerry® smartphone, PIN 20761A98 in Bluetooth Tx mode with the 3.5 mm Stereo Headset was connected to the Folding Blade Charger

The system's radiated emission levels were compared with respect to the FCC CFR 47 Part 15, Subpart B, and IC ICES-003, Class B limit.
The system met the requirements with a worse case emission test margin of 3.25 dB at 38.567 MHz using test configuration 2.

Sample Calculation:

Field Strength (dBµV/m) is calculated as follows:
FS = Measured Level (dBµV) + A.F. (dB/m) + Cable Loss (dB) - Preamp (dB) + Filter Loss (dB)

Measurement Uncertainty ±4.6 dB

To view the test data see APPENDIX 2.

G. Compliance Test Equipment Used

UNIT	MANUFACTURER	MODEL	SERIAL NUMBER	CAL DUE DATE (YY MM DD)	USE
Preamplifier	Sonoma	310N/11909A	185831	08-11-21	Radiated Emissions
Preamplifier system	TDK RF Solutions	PA-02	080010	08-11-16	Radiated Emissions
Preamplifier	Rohde & Schwarz	TS-ANA4-SP	001	09-06-03	Radiated Emissions
Preamplifier	Rohde & Schwarz	TS-ANA-SP	001	09-02-29	Radiated Emissions
EMC Analyzer	Aglient	E7405A	US40240226	09-01-01	Radiated Emissions
Digital Multimeter	Hewlett Packard	34401A	US36042324	09-01-01	Conducted/Radiated Emissions
Environment Monitor	Control Company	1870	230355190	08-12-11	Conducted/Radiated Emissions
Environment Monitor	Control Company	1870	230355189	08-12-11	RF Conducted Emissions
L.I.S.N.	Rohde & Schwarz	ENV216	100060	10-04-08	Conducted Emissions
Hybrid Log Antenna	TDK	HLP-3003C	017301	08-12-15	Radiated Emissions
Hybrid Log Antenna	TDK	HLP-3003C	017201	09-10-24	Radiated Emissions
Horn Antenna	TDK	HRN-0118	030201	09-01-17	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	837493/073	08-12-06	Radiated Emissions
Universal Radio Communication Tester	Rohde & Schwarz	CMU 200	112394	08-12-10	Radiated/Conducted Emissions
EMI Test Receiver	Rohde & Schwarz	ESIB 40	100255	08-12-24	Conducted/Radiated Emissions
EMI Receiver	Agilent	8546A	3942A00517	08-11-19	Radiated Emissions
RF Filter Section	Agilent	85460A	3704A00481	08-11-19	Radiated Emissions

APPENDIX 1 - AC LINE CONDUCTED EMISSIONS TEST DATA

AC Conducted Emissions Test Results

The measurements were performed by Andrew Fleming and Savtej Sandhu.

Test Configuration 1

The environmental test conditions were: Temperature 24ºC
Pressure 1020 mb
Relative Humidity 32%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B
Date of test: September 26, 2008

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	N	35.97	10.05	46.03	64.63	54.63	-18.60
0.186	L1	29.82	9.81	39.63	64.21	54.21	-24.58
0.267	N	30.04	9.81	39.85	61.21	51.21	-21.36
0.272	L1	27.91	9.84	37.76	61.07	51.07	-23.32
0.402	L1	32.06	9.75	41.81	57.81	47.81	-16.00
0.411	N	31.59	9.87	41.46	57.63	47.63	-16.17
0.501	N	29.69	9.88	39.57	56.00	46.00	-16.43
0.645	N	26.58	9.81	36.39	56.00	46.00	-19.61
1.221	N	30.42	9.63	40.05	56.00	46.00	-15.95
1.608	N	33.07	9.60	42.67	56.00	46.00	-13.33
2.004	N	33.87	9.61	43.48	56.00	46.00	-12.52
2.490	L1	36.02	9.55	45.57	56.00	46.00	-10.43
2.513	N	36.36	9.60	45.96	56.00	46.00	**-10.04**
3.098	L1	34.37	9.59	43.96	56.00	46.00	-12.04
3.903	N	33.26	9.61	42.88	56.00	46.00	-13.12
4.079	L1	34.45	9.64	44.09	56.00	46.00	-11.91

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

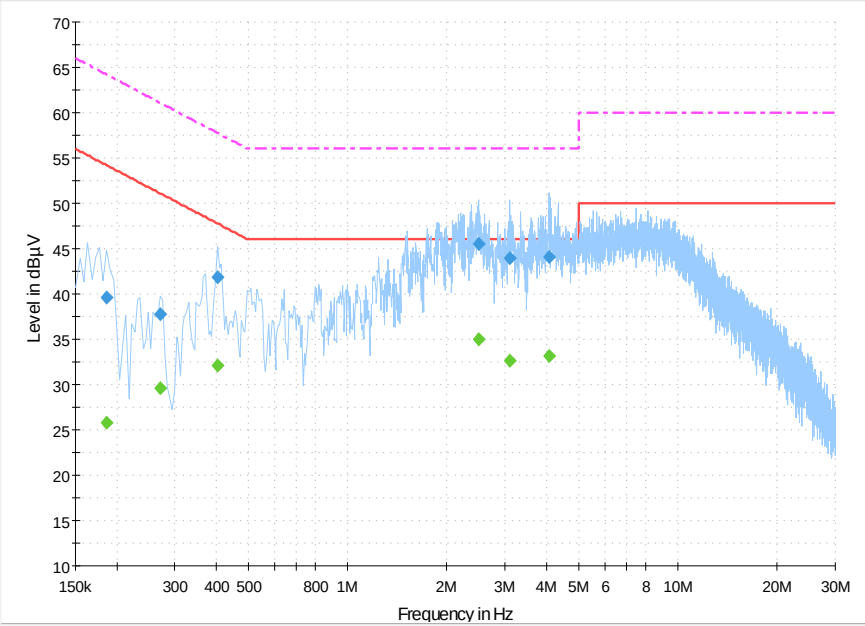
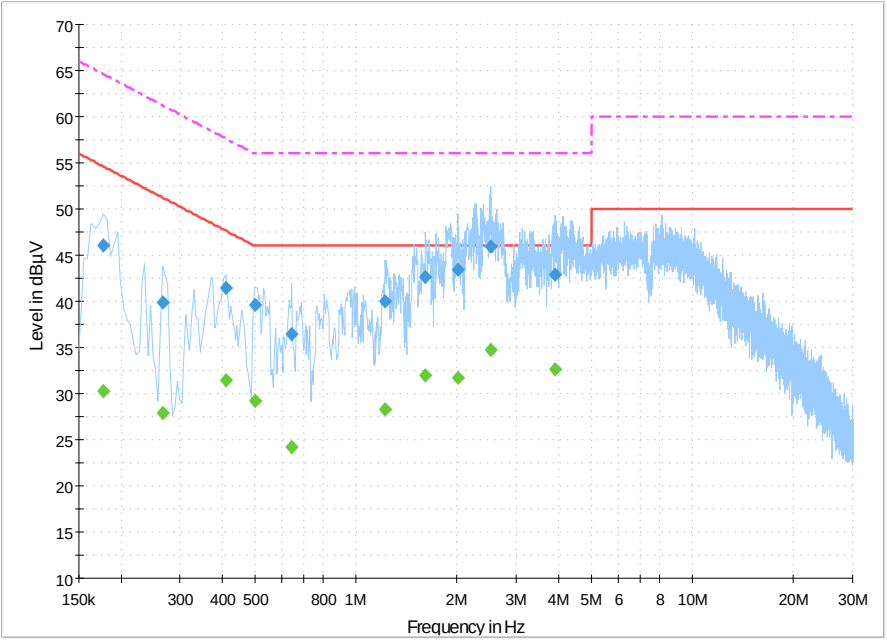


Figure 1-2: N Lines



AC Conducted Emissions Test Results

Test Configuration 2

The environmental test conditions were:

Temperature	24ºC
Pressure	1006mb
Relative Humidity	35%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: August 1, 2008

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.168	N	38.17	10.03	48.20	65.06	55.06	-16.86
0.173	L1	42.47	9.88	52.35	64.84	54.84	-12.49
0.227	N	30.88	9.80	40.68	62.58	52.58	-21.90
0.254	L1	30.13	9.86	39.98	61.64	51.64	-21.66
0.272	L1	29.79	9.84	39.64	61.07	51.07	-21.44
0.281	N	26.32	9.81	36.13	60.80	50.80	-24.67
0.335	N	25.24	9.84	35.09	59.34	49.34	-24.25
0.362	L1	29.40	9.78	39.18	58.69	48.69	-19.52
0.429	N	22.90	9.87	32.77	57.27	47.27	-24.50
0.497	N	25.78	9.89	35.67	56.06	46.06	-20.39
0.506	L1	26.92	9.66	36.58	56.00	46.00	-19.42
0.546	L1	26.30	9.67	35.97	56.00	46.00	-20.03
2.459	N	21.52	9.60	31.11	56.00	46.00	-24.89
2.571	L1	22.70	9.56	32.26	56.00	46.00	-23.74
26.993	L1	27.50	10.35	37.85	60.00	50.00	-22.15
26.993	N	28.17	10.00	38.17	60.00	50.00	-21.83

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

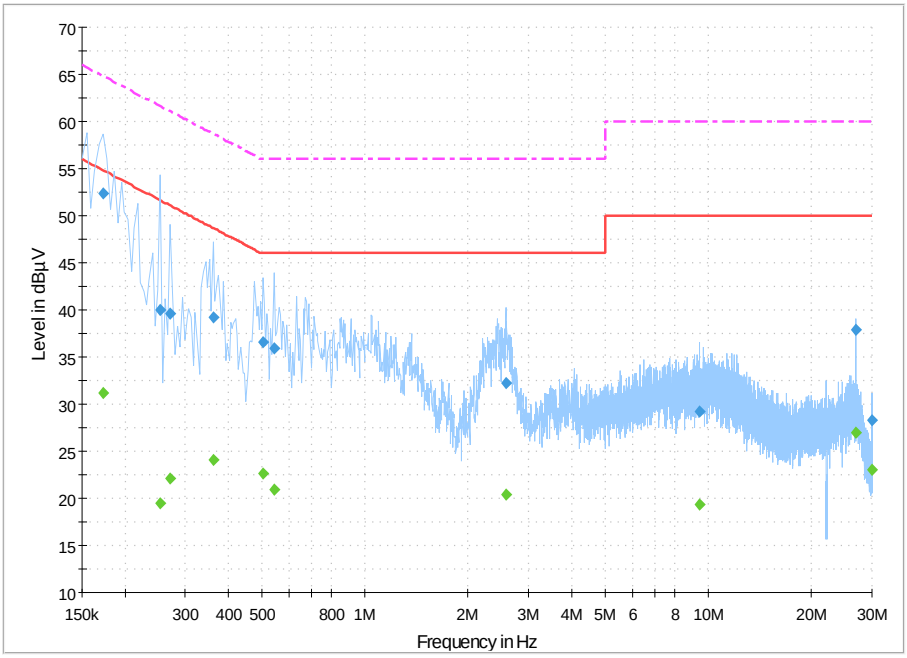
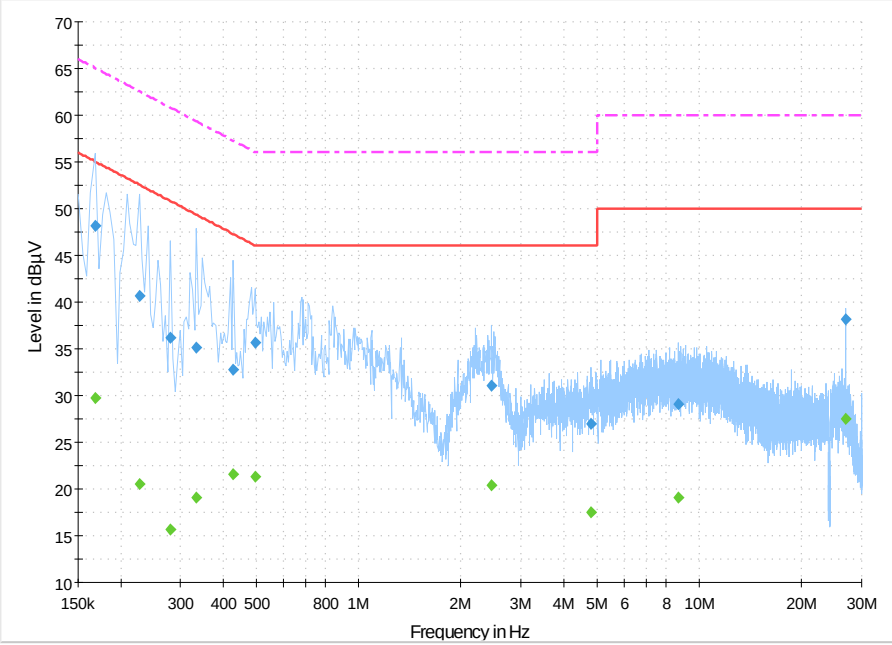


Figure 1-4: N Lines



AC Conducted Emissions Test Results

Test Configuration 3

The environmental test conditions were:

Temperature	24ºC
Pressure	1020mb
Relative Humidity	32%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: September 26, 2008

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV) (dBµV)	Margin (QP) Limits (dB)
0.186	L1	30.27	9.81	40.08	64.21	54.21	-24.14
0.267	L1	29.10	9.85	38.95	61.21	51.21	-22.27
0.272	N	27.22	9.81	37.04	61.07	51.07	-24.04
0.407	N	31.59	9.87	41.46	57.72	47.72	-16.26
0.411	L1	33.01	9.75	42.76	57.63	47.63	-14.87
0.506	N	28.01	9.88	37.89	56.00	46.00	-18.11
2.459	L1	35.78	9.54	45.33	56.00	46.00	-10.67
2.715	N	29.78	9.61	39.39	56.00	46.00	-16.61
4.092	N	33.21	9.61	42.82	56.00	46.00	-13.18

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

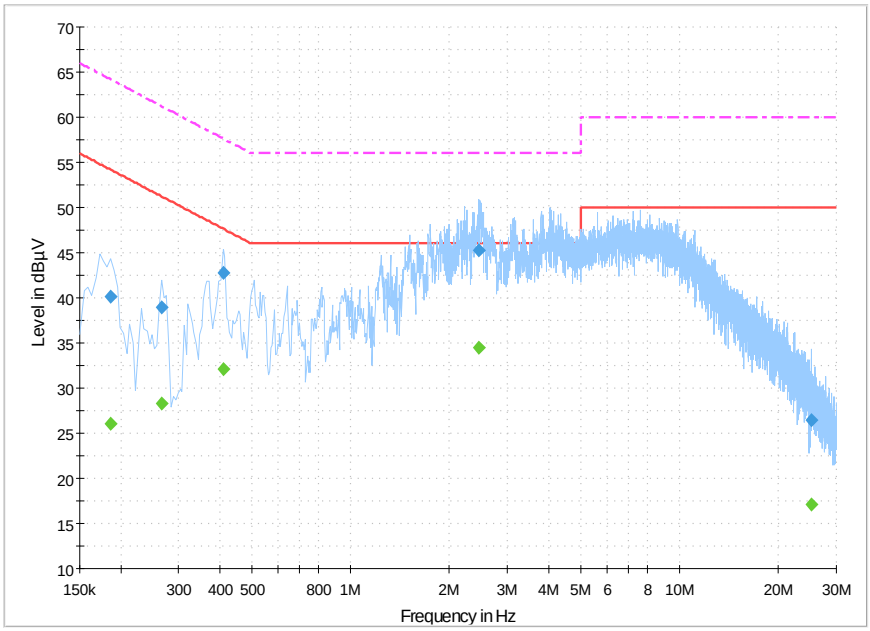
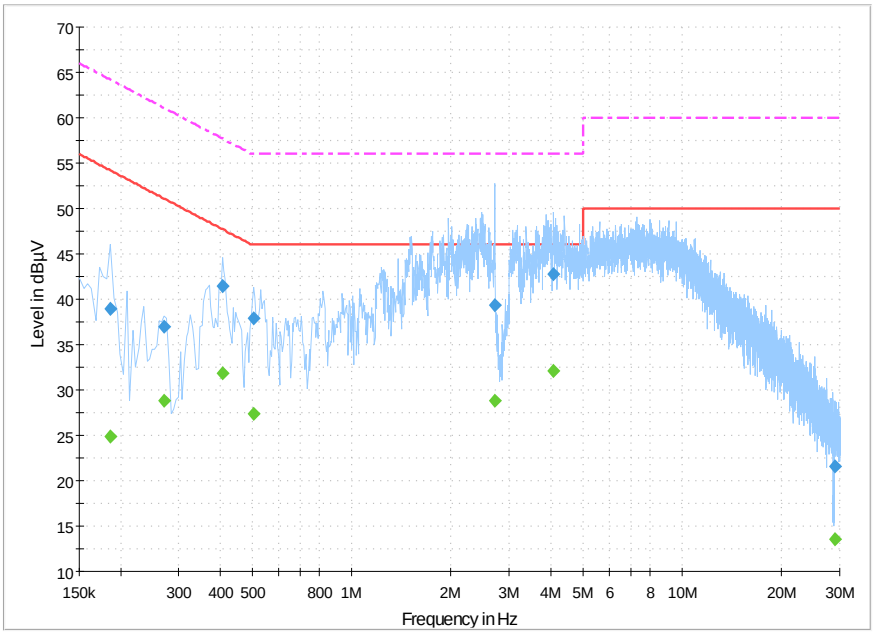


Figure 1-6: N Lines



APPENDIX 2 - RADIATED EMISSIONS TEST DATA

Radiated Emissions Test Results

The measurements were performed by Arjun Singh Rai Bhatti and Savtej Sandhu

Test Configuration 1

The environmental test conditions were:

Temperature	24ºC
Pressure	1006 mb
Relative Humidity	32%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: August 18, 2008

Test Distance was 3.0 metres.

Frequency (MHz)	Antenna Pol. (V/H)	Antenna Height (metres)	Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+corr) (dBµV/m)	Limit @ 3.0 m (dBµV/m)	Test Margin (dB)
38.700	V	1.46	265	Q.P.	49.74	-15.08	34.66	40.00	-5.34
38.800	V	1.51	265	Q.P.	48.40	-15.13	33.27	40.00	-6.73
216.050	H	1.48	112	Q.P.	48.87	-14.77	34.10	46.00	-11.90
232.600	H	1.27	77	Q.P	43.40	-15.84	27.56	46.00	-18.44
245.550	H	1.52	58	Q.P	42.88	-16.08	26.80	46.00	-19.20
720.100	V	1.51	176	Q.P	35.82	-3.13	32.69	46.00	-13.31

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

Radiated Emissions Test Results cont'd

Test Configuration 2

The environmental test conditions were: Temperature 23ºC
Pressure 1014 mb
Relative Humidity 32%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: August 19, 2008 Test Distance was 3.0 metres.

Frequency	Antenna		Test Angle	Detector	Measured Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading+corr)	Limit @ 3.0 m	Test Margin
	Pol.	Height		(Q.P. or Peak)		(dB/m)			
(MHz)	(V/H)	(metres)	(Deg.)		(dBµV)		(dBµV/m)	(dBµV/m)	(dB)
38.476	H	1.62	13	Q.P.	42.09	-14.85	27.24	40.00	-12.76
38.567	V	1.67	92	Q.P.	51.80	-15.05	36.75	40.00	**-3.25**
71.555	V	1.84	274	Q.P.	42.07	-19.32	22.75	40.00	-17.25
142.827	H	2.38	136	Q.P.	38.71	-18.18	20.53	43.50	-22.97
183.810	H	1.14	262	Q.P.	46.01	-17.66	28.35	43.50	-15.15
243.402	H	1.54	123	Q.P.	45.63	-16.07	29.56	46.00	-16.44
317.223	H	1.05	147	Q.P.	37.51	-12.32	25.19	46.00	-20.81
338.021	V	2.56	256	Q.P.	38.81	-9.94	28.87	46.00	-17.13
345.034	H	1.00	38	Q.P.	41.56	-9.09	32.47	46.00	-13.53
426.131	V	1.43	354	Q.P.	39.64	-9.68	29.96	46.00	-16.04
428.876	H	2.16	107	Q.P.	40.05	-9.67	30.38	46.00	-15.62
720.155	V	1.60	202	Q.P.	34.56	-3.13	31.43	46.00	-14.57

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

Radiated Emissions Test Results cont'd

Test Configuration 3

The environmental test conditions were: Temperature 24.5ºC
Pressure 1003 mb
Relative Humidity 30%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: 2 October, 2008 Test Distance was 3.0 metres.

Frequency (MHz)	Antenna Pol. (V/H)	Antenna Height (metres)	Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+corr) (dBµV/m)	Limit @ 3.0 m (dBµV/m)	Test Margin (dB)
33.125	V	1.24	344	Q.P.	39.77	-17.95	21.82	40.00	-18.18
42.685	V	1.39	346	Q.P.	41.04	-21.29	19.74	40.00	-20.26
55.230	V	2.36	312	Q.P.	44.14	-23.48	20.66	40.00	-19.34
72.730	H	2.94	164	Q.P.	39.51	-21.98	17.53	40.00	-22.47
204.311	H	2.67	110	Q.P.	37.33	-16.28	21.05	43.50	-22.45

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

Radiated Emissions Test Results cont'd

Test Configuration 4

The environmental test conditions were:

Temperature	24ºC
Pressure	1005 mb
Relative Humidity	30%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: August 14, 2008

Test Distance was 3.0 metres.

Frequency (MHz)	Antenna Pol. (V/H)	Antenna Height (metres)	Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+corr) (dBµV/m)	Limit @ 3.0 m (dBµV/m)	Test Margin (dB)
38.528	V	1.45	354	Q.P.	46.43	-14.90	31.53	40.00	-8.47
38.423	H	3.99	101	Q.P.	37.89	-14.93	22.96	40.00	-17.04
85.656	H	1.86	22	Q.P.	38.15	-18.17	19.98	40.00	-20.02
85.604	V	3.25	203	Q.P	38.25	-18.17	20.08	40.00	-19.92
139.475	H	2.19	187	Q.P	37.4	-18.24	19.16	43.50	-24.34

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

Radiated Emissions Test Results cont'd

Test Configuration 5

The environmental test conditions were: Temperature 25ºC
Pressure 1027 mb
Relative Humidity 33%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: September 25, 2008 Test Distance was 3.0 metres.

Frequency	Antenna		Test Angle	Detector	Measured Level	Correction Factor for preamp/antenna / cables/ filter	Field Strength Level (reading+corr)	Limit @ 3.0 m	Test Margin
	Pol.	Height		(Q.P. or Peak)		(dB/m)			
(MHz)	(V/H)	(metres)	(Deg.)		(dBµV)		(dBµV/m)	(dBµV/m)	(dB)
333.277	H	1.00	190	Q.P.	50.92	-12.34	38.57	46.00	-7.43
335.451	H	1.00	180	Q.P.	52.09	-11.91	40.18	46.00	-5.82
335.591	H	1.00	180	Q.P.	50.45	-11.90	38.56	46.00	-7.44
337.705	H	1.00	186	Q.P.	52.42	-11.67	40.75	46.00	-5.25
4559.750	V	3.71	143	AVE	22.31	14.97	37.28	54.00	-16.72
4832.074	H	1.65	277	AVE	22.10	16.42	38.52	54.00	-15.48
4945.341	V	2.86	23	AVE	21.75	16.58	38.33	54.00	-15.67
4954.138	V	1.99	81	AVE	22.00	16.68	38.68	54.00	-15.32
4963.156	V	2.71	90	AVE	22.46	16.78	39.25	54.00	-14.75
4964.439	H	2.34	339	AVE	22.39	16.80	39.18	54.00	-14.82
4970.331	V	2.93	127	AVE	22.63	16.86	39.50	54.00	-14.50
4976.924	H	3.54	336	AVE	22.50	16.94	39.44	54.00	-14.56
4981.293	H	4.05	83	AVE	22.29	16.99	39.28	54.00	-14.72
4985.381	H	4.05	9	AVE	22.12	17.03	39.15	54.00	-14.85

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

Radiated Emissions Test Results cont'd

Test Configuration 6

The environmental test conditions were:

Temperature	24°C
Pressure	1004 mb
Relative Humidity	34%

FCC CFR 47 Part 15, Subpart B and IC ICES-003, Class B

Date of test: August 12, 2008 Test Distance was 3.0 metres.

Frequency (MHz)	Antenna Pol. (V/H)	Antenna Height (metres)	Test Angle (Deg.)	Detector (Q.P. or Peak)	Measured Level (dBµV)	Correction Factor for preamp/antenna / cables/ filter (dB/m)	Field Strength Level (reading+corr) (dBµV/m)	Limit @ 3.0 m (dBµV/m)	Test Margin (dB)
38.451	V	1.40	8	Q.P.	47.12	-14.87	32.25	40.00	-7.75
61.028	V	1.50	255	Q.P.	45.52	-22.52	23.00	40.00	-17.00
265.890	H	1.33	297	Q.P.	39.18	-15.43	23.75	46.00	-22.25
314.511	H	1.03	311	Q.P.	42.81	-12.48	30.33	46.00	-15.67
346.729	H	2.70	23	Q.P.	36.66	-9.55	27.11	46.00	-18.89
390.006	H	1.99	127	Q.P.	34.58	-10.81	23.77	46.00	-22.23
442.001	H	2.12	157	Q.P.	32.91	-9.05	23.86	46.00	-22.14

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