

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

RIM Testing Services (RTS)

A division of Research In Motion Limited

REPORT NO.: RTS-1191-0808-19

PRODUCT MODEL NO.: RBW71CW
TYPE NAME: BlackBerry® smartphone
FCC ID: L6ARBW70CW
IC: 2503A-RBW70CW

DATE: 23 September, 2008

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Statement of Performance:

The BlackBerry® smartphone, model RBW71CW, part number CER-17673-002 Rev. 4, and accessories when configured and operated per RIM's operation instructions, performs 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:

Gurjeev Singh
Compliance Specialist
Date: 23 September 2008

Reviewed by:

Maurice Battler
Compliance Specialist
Date: 23 September 2008

Reviewed by:

Masud S. Attayi, P.Eng.
Team Lead, Regulatory Compliance
Date: 24 September 2008

Approved by:

Paul G. Cardinal, Ph.D.
Director
Date: 26 September 2008

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

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.	Modifications to EUT	6
G.	Summary of Results	7
H.	Compliance Test Equipment Used	10
APPENDIX 1 – AC CONDUCTED EMISSIONS TEST DATA/PLOTS		11
APPENDIX 2 – BLUETOOTH CONDUCTED EMISSIONS TEST DATA/PLOTS		14

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

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, July 10, 2008
- 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. Document number RTS-1191-RBW71CW-01
2. Document number RTS-1191-RBW71CW-02
3. Cetecom test report number 4-3120-01-05_08

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 facility, 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

CETECOM ICT Services GmbH
 Untertürkheimer Str. 6 – 10
 D-66117 Saarbrücken
 Germany

The testing was performed from August 12 to September 12, 2008.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

The sample EUT included:

SAMPLE	MODEL	CER NUMBER	PIN
1	RBW71CW	CER-17673-002 Rev. 2	30479FB5
2	RBW71CW	CER-17673-002 Rev. 2	3047A3BE

To view the differences between CER-17673-001 Rev. 2 to CER-17673-001 Rev. 3, see document number RTS-1191-RBW71CW-01.

To view the differences between CER-17673-001 Rev. 3 to CER-17673-001 Rev. 4, see document number RTS-1191-RBW71CW-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 and attached USB cable with a lead length of 1.80 metres.
- 2) Stereo Multi Button Headset, 3.5 mm, part number HDW-15765-001, 1.1 metres long.
- 3) External Battery Charger, (EBC), part number HDW-19137-001.
- 4) 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) Communication Tester, Rohde & Schwarz, model CMU 200, serial number 837493/073
- 2) DC Power Supply, H/P, model 6632B, serial number US37472178
- 3) Bluetooth Tester, Rohde & Schwarz, model CBT, serial number 100034
- 4) Bluetooth Tester, Rohde & Schwarz, model CBT, serial number 100370

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

E. Test Results Chart

SPECIFICATION		TEST TYPE	Meets Requirements	TEST DATA APPENDIX
FCC CFR 47	IC			
Part 15.207	RSS-GEN, 7.2.2	Conducted AC Line Emission	Yes	1
Part 15.209 Part 15.247	RSS-210, A8.5	Radiated Spurious Emissions and Radiated Band Edge Compliance	See test report 4-3120-01-05_08	-
Part 15.247(a)	RSS-210, A8.1	Bluetooth 20 dB Bandwidth	Yes	2
Part 15.247(a)	RSS-210, A8.1	Bluetooth Carrier Frequency Separation	Yes	2
Part 15.247(a)	RSS-210, A8.1d	Bluetooth Number of Hopping Frequencies	Yes	2
Part 15.247(a)	RSS-210, A8.1c	Bluetooth Time of Occupancy (Dwell Time)	Yes	2
Part 15.247(b)	RSS-210, A8.4	Bluetooth Maximum Peak Conducted Output Power	Yes	2
Part 15.247(c)	RSS-210, A8.5	Bluetooth Band-Edge Compliance of RF Conducted Emissions	Yes	2
Part 15.247(c)	RSS-210, A8.5	Bluetooth Spurious RF Conducted Emissions	Yes	2

F. Modifications to EUT

No modifications were required on the EUT.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

G. 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, PIN 3047A3BE was in battery charging mode. The input voltage was 120 V, 60 Hz.

The following test configuration was measured:

1. The BlackBerry® smartphone in Bluetooth Tx mode with the 3.5 mm Stereo Multi Button Headset and the External Battery Charger connected via the USB Y cable to the Folding Blade Charger.

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 worse case test margin of 18.14 dB below the limit at 0.173 MHz using the quasi peak detector with the External Battery Charger, test configuration.

See APPENDIX 1 for the test data

Measurement Uncertainty ± 3.0 dB

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

2) RADIATED EMISSIONS

See test report 4-3120-01-05_08.

Co-Location Measurements

The radiated emissions were measured up to 18 GHz for middle channels for simultaneous transmission in the following test configuration combinations: CDMA, PCS and Bluetooth. Both the horizontal and vertical polarizations were measured. The emissions due to different simultaneous transmission did not increase the amplitude of any emissions nor did it produce any new inter-modulation products as a result of mixing.

3) BLUETOOTH RF CONDUCTED EMISSIONS

a) 20 dB Bandwidth

The EUT met the requirements of the 20 dB bandwidth as per 47 CFR 15.247(a) and RSS-210. Low channel (0), middle channel (39) and high channel (78) were measured. The result includes both normal data rate and EDR.

See APPENDIX 3 for the test data.

b) Carrier Frequency Separation

The EUT met the requirements of the carrier frequency separation as per 47 CFR 15.247(a) and RSS-210. Channel 38 to 39 was measured. The result includes both normal data rate and EDR.

See APPENDIX 3 for the test data.

c) Number of Hopping Frequencies

The EUT met the requirements of the number of hopping frequencies as per 47 CFR 15.247(a) and RSS-210. The number of hopping channels measured was 79.

See APPENDIX 3 for the test data.

d) Time of Occupancy (Dwell Time)

The EUT met the requirements of the dwell time as per 47 CFR 15.247(a) and RSS-210. Low channel (0), middle channel (39) and high channel (78) were measured in DH1, DH3 and DH5 modes. Bluetooth was operating in frequency hopping (Euro/US) mode during the measurements.

See APPENDIX 3 for the test data.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

e) **Maximum Peak Conducted Output Power**

The EUT met the requirements of the maximum peak conducted output power as per 47 CFR 15.247(b) and RSS-210. Low channel (0), middle channel (39) and high channel (78) were measured. The result includes both normal data rate and EDR.

See APPENDIX 3 for the test data.

f) **Band-Edge Compliance of RF Conducted Emissions**

The EUT met the requirements of the band-edge compliance of RF conducted emissions as per 47 CFR 15.247(c) and RSS-210. Channels 0 and 78 were measured in frequency hopping (Euro/US) mode and single frequency mode.

The result includes both normal data rate and EDR.

See APPENDIX 3 for the test data.

g) **Spurious RF Conducted Emissions**

The EUT met the requirements of the spurious RF conducted emissions as per 47 CFR 15.247(c) and RSS-210. The frequency range measured was 10 MHz to 26 GHz. Low channel (0), middle channel (39) and high channel (78) were measured in single frequency mode and frequency hopping (Euro/US) mode. The result includes both normal data rate and EDR.

See APPENDIX 3 for the test data.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

H. 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 Receiver	Agilent	8546A	3942A00517	08-11-19	Conducted/Radiated Emissions
RF Filter Section	Agilent	85460A	3704A00481	08-11-19	Conducted/Radiated Emissions
Spectrum Analyzer	HP	8563E	3745A08112	09-09-22	RF Conducted Emissions
DC Power Supply	HP	6632B	US37472178	09-09-24	RF Conducted Emissions
Environment Monitor	Control Company	1870	230355189	08-12-11	RF Conducted Emissions
Temperature Probe	Control Company	15-077-21	51129471	09-05-12	Frequency Stability
Environmental Chamber	ESPEC Corp.	SH-240S1	91005607	N/R	Frequency Stability
Bluetooth Tester	Rohde & Schwarz	CBT	100034	08-12-06	RF Conducted Emissions
Signal Generator	Agilent	8648C	4037U03155	09-09-20	Frequency Stability
Power Meter	Agilent	N1911A	MY45100905	09-04-16	Frequency Stability
Power Sensor	Agilent	N1921A	SG45240281	09-04-16	Frequency Stability
Digital Multimeter	Hewlett Packard	34401A	US36042324	08-09-28	Conducted/Radiated Emissions
L.I.S.N.	Rohde & Schwarz	ENV216	100060	10-04-08	Conducted Emissions

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 1	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

APPENDIX 1 – AC CONDUCTED EMISSIONS TEST DATA/PLOTS

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 1	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth AC Conducted Emission Test Results

The measurements were performed by Andrew Fleming and Savtej Sandhu

Test Configuration 1

AC Power Line Conducted Emissions

The EUT met the requirements of the AC Power Line Conducted Emissions as per FCC CFR 47 Part 15, Subpart C and IC RSS-210.

The environmental test conditions were:

Temperature	25°C
Pressure	1012 mb
Relative Humidity	38%

Date of test: September 12, 2008

Frequency (MHz)	Line	Reading (QP) (dBµV)	Correction Factor (dB)	Corrected Reading (QP) (dB)	Limit (QP) (dBµV)	Limit (AV)	Margin (QP) Limits (dB)
0.159	L1	36.61	10.03	46.64	65.52	55.52	-18.92
0.173	N	36.71	10.04	46.75	64.84	54.84	-18.14
0.204	L1	31.30	9.90	41.20	63.45	53.45	-22.25
0.209	N	32.77	9.79	42.57	63.26	53.26	-20.67
0.231	N	30.53	9.81	40.34	62.41	52.41	-22.11
0.240	L1	29.41	9.88	39.30	62.10	52.10	-22.80
0.263	L1	28.41	9.85	38.26	61.35	51.35	-23.05
0.371	N	26.65	9.85	36.50	58.49	48.49	-21.99
0.470	L1	24.32	9.70	34.01	56.52	46.52	-22.52
0.830	N	23.56	9.72	33.28	56.00	46.00	-22.70
2.180	L1	21.40	9.56	30.96	56.00	46.00	-25.00

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.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 1	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth AC Conducted Emission Test Graph 1

Test Configuration 1

Figure 1-1

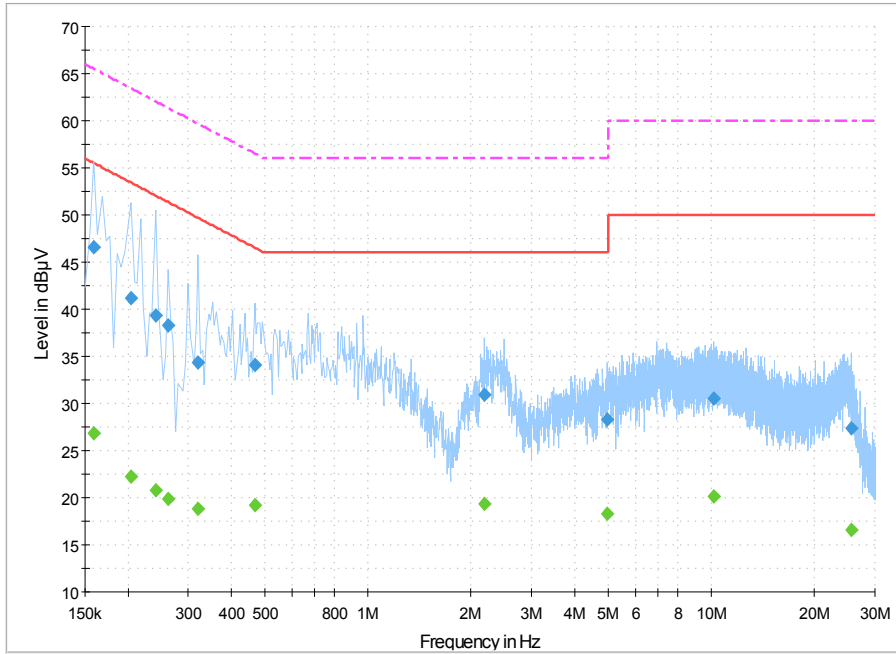
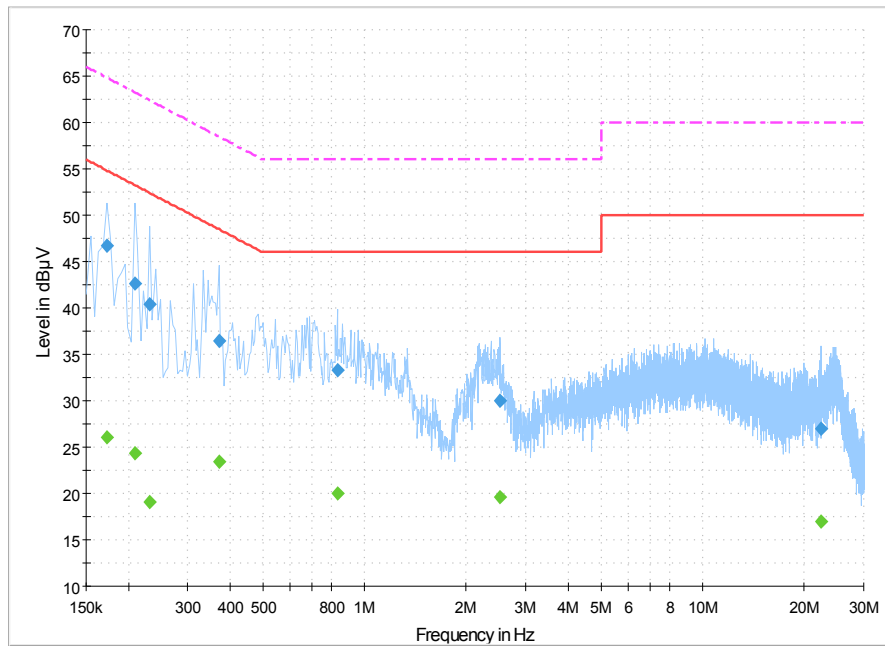


Figure 1-2



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

APPENDIX 2 – BLUETOOTH CONDUCTED EMISSIONS TEST DATA/PLOTS

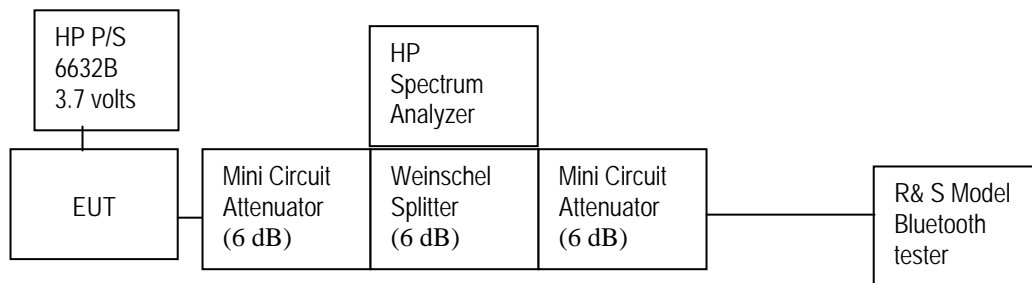
RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results

Bluetooth power output from BlackBerry® smartphone PIN 30479FB5 was at maximum for all the recorded measurements shown below.
The measurements were performed by Maurice Battler.

Date of test: August 12, 2008

Test Setup Diagram



A reference offset of 12.4 dB was applied to the spectrum analyzer reference level for the attenuators and coaxial cable loss in the test circuit.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

20 dB Bandwidth

The EUT met the requirements of the 20 dB bandwidth as per 47 CFR 15.247(a) and RSS-210. Low channel (0), middle channel (39) and high channel (78) were measured. Bluetooth was operating in single frequency mode.

Using pattern type “Static PRBS” and packet type “DH5” during the measurements.

Bluetooth Channel	Limit (MHz)	Measured Level (MHz)
0	≤1.0	0.920
39	≤1.0	0.920
78	≤1.0	0.913

See figures 3-1 to 3-3 for the plots of the 20 dB bandwidth measurements.

The environmental test conditions were:

Temperature	22°C
Pressure	1010 mb
Relative Humidity	34%

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-1: 20 dB Bandwidth

Single freq., Static PBRs, DH5

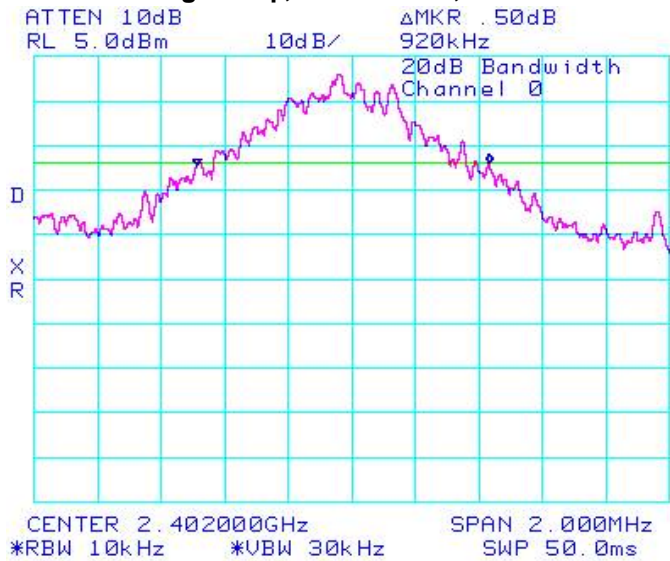


Figure 3-2: 20 dB Bandwidth

Single freq., Static PBRs, DH5

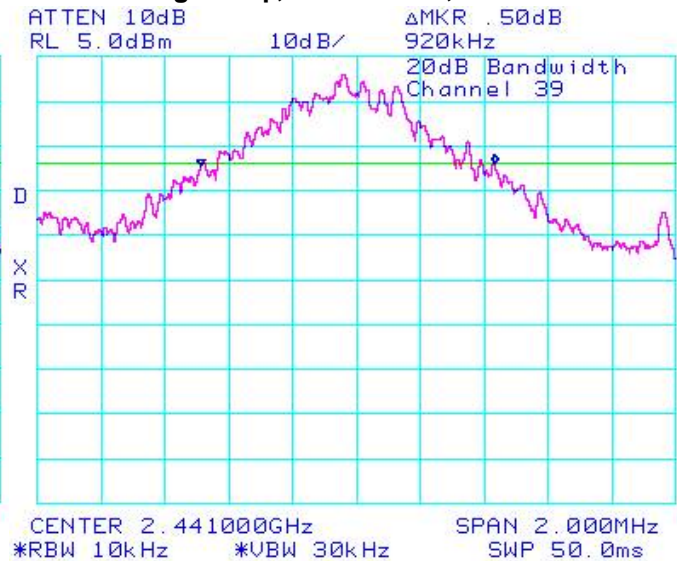
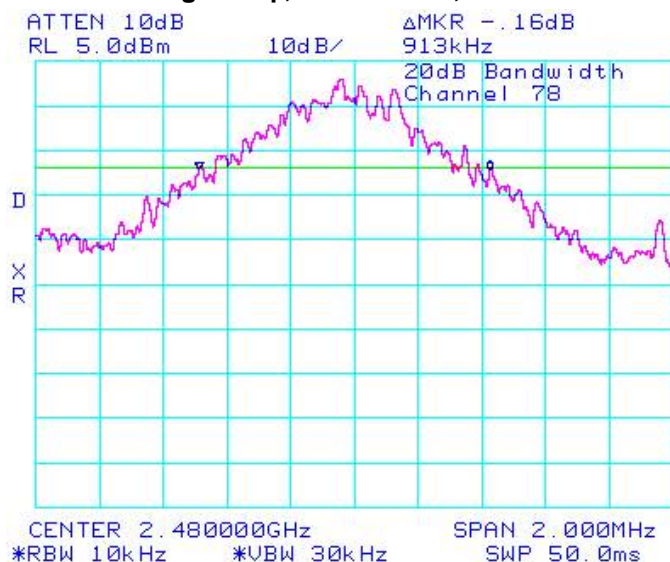


Figure 3-3: 20 dB Bandwidth

Single freq., Static PBRs, DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-4: 20 dB Bandwidth

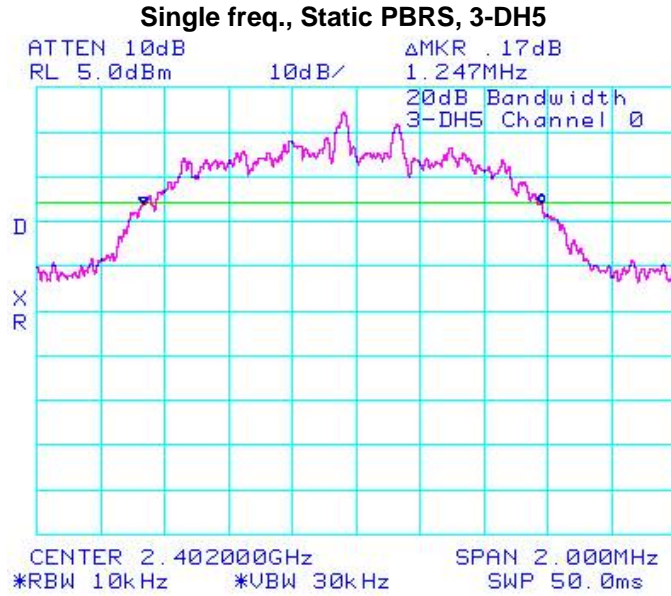


Figure 3-5: 20 dB Bandwidth

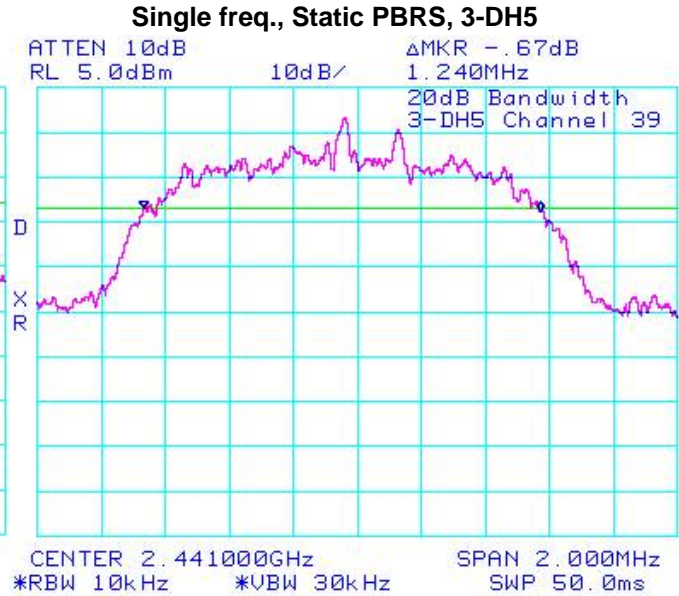
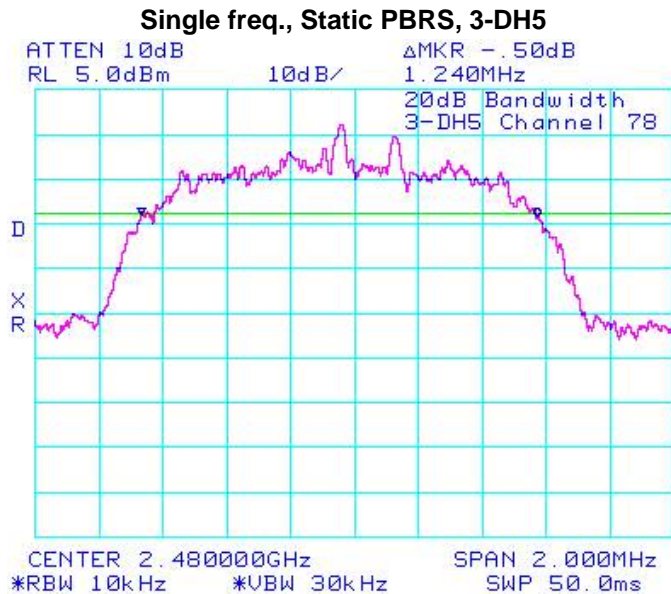


Figure 3-6: 20 dB Bandwidth



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

Carrier Frequency Separation

The EUT met the requirements of the Carrier Frequency Separation as per 47 CFR 15.247(a) and RSS-210. Channel 38 to 39 was measured. Bluetooth was operating in frequency hopping (Euro/US) mode.

Using pattern type “Static PRBS” and packet type “DH5” during the measurements.

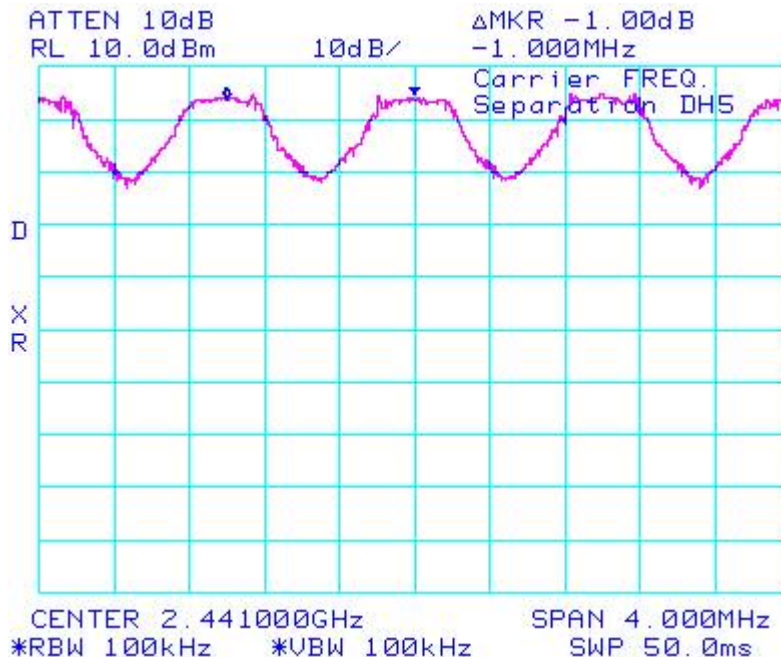
Bluetooth Channels	Limit (MHz)	Measured Level (MHz)
38 to 39	≥ 0.025 or 20 dB bandwidth	1.000

The environmental test conditions were:

Temperature	22°C
Pressure	1010 mb
Relative Humidity	34%

See figure 3-7 for the plot of the Carrier Frequency Separation measurement.

Figure 3-7: Carrier Frequency Separation, Freq. Hopping, Static PBRs, DH5, Channels 38 to 39



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-6: Number of Hopping Frequencies
Static PBRs, DH5

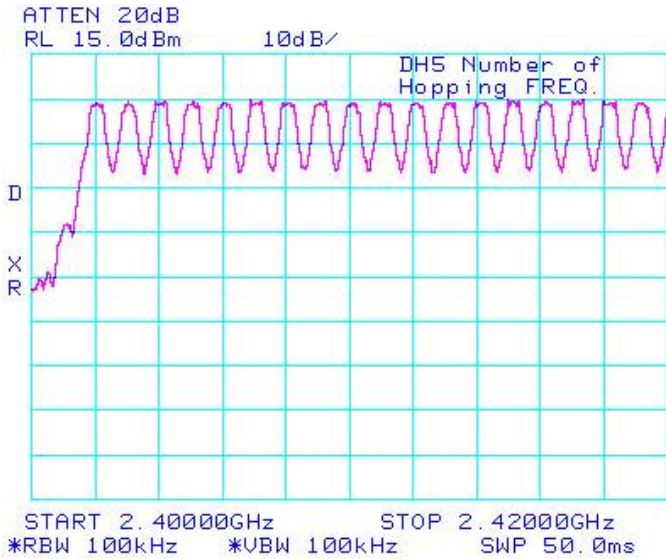


Figure 3-7: Number of Hopping Frequencies
Static PBRs, DH5

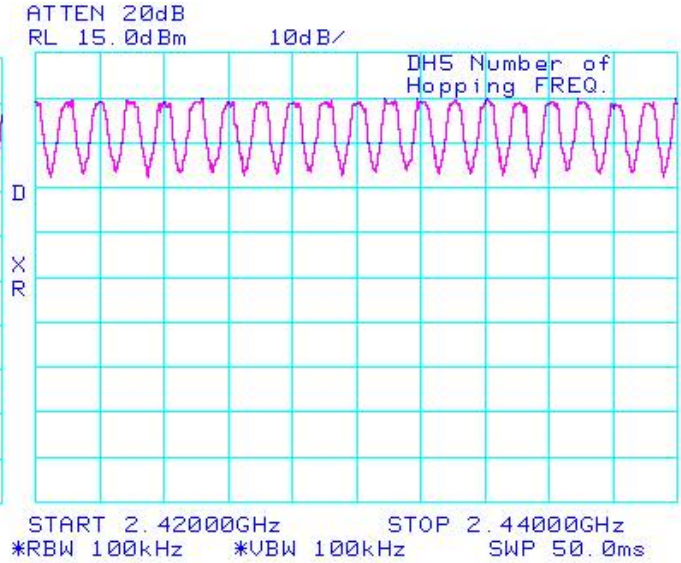


Figure 3-8: Number of Hopping Frequencies
Static PBRs, DH5

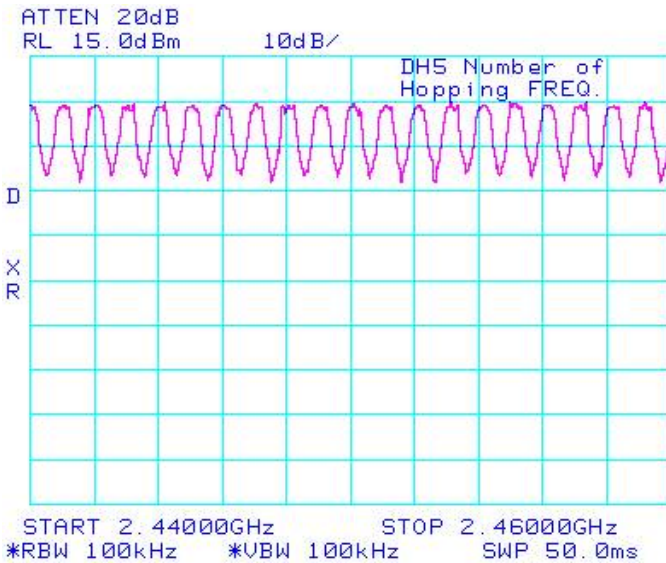
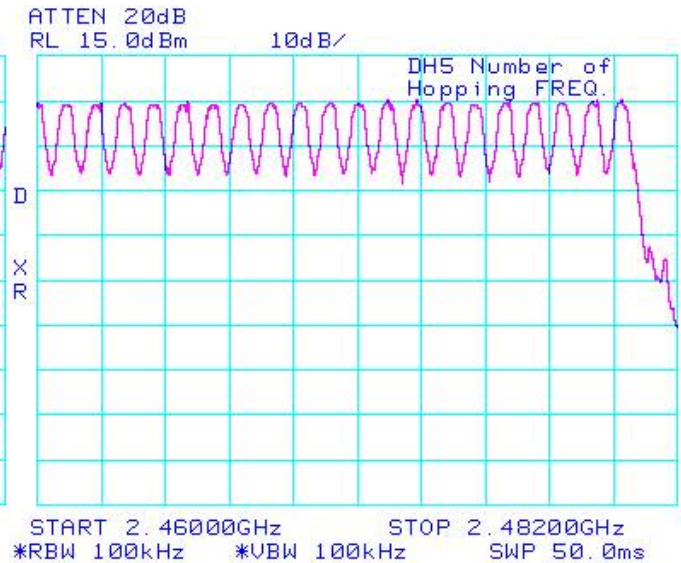


Figure 3-9: Number of Hopping Frequencies
Static PBRs, DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-13: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH1

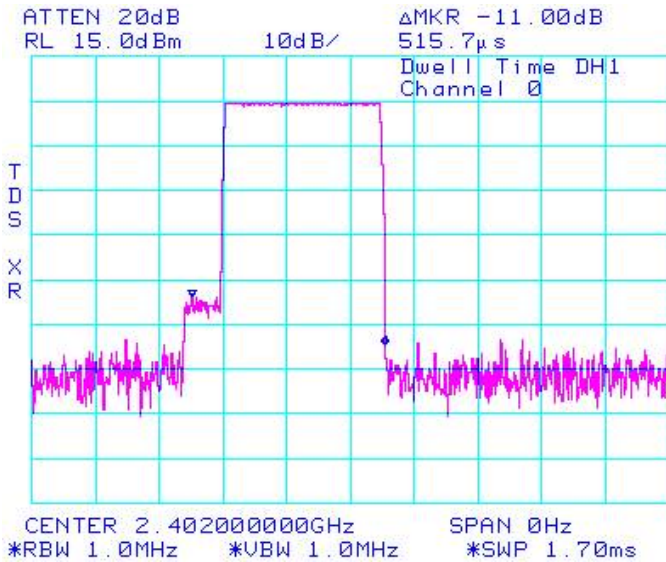


Figure 3-14: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH1

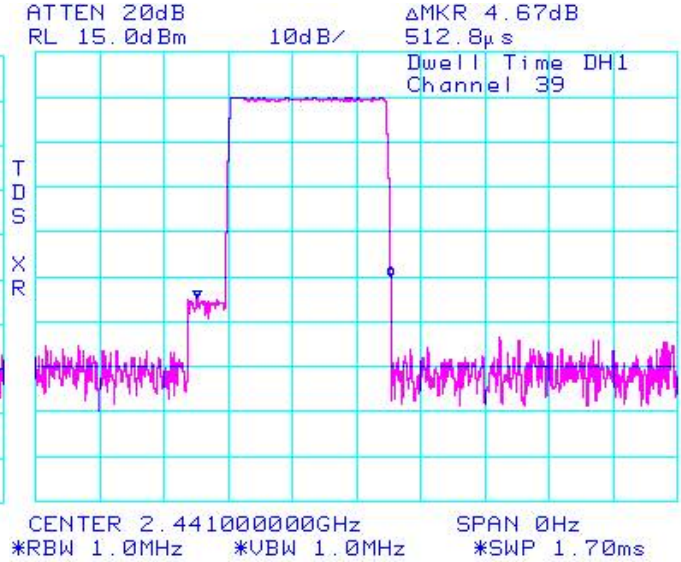


Figure 3-15: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH1

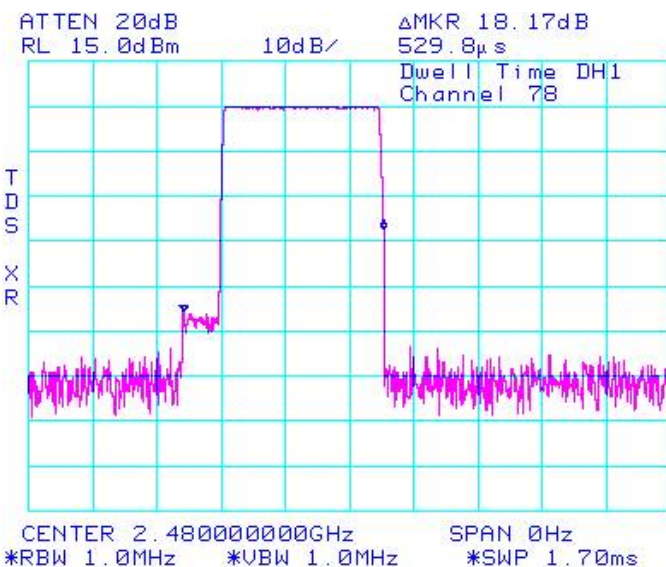
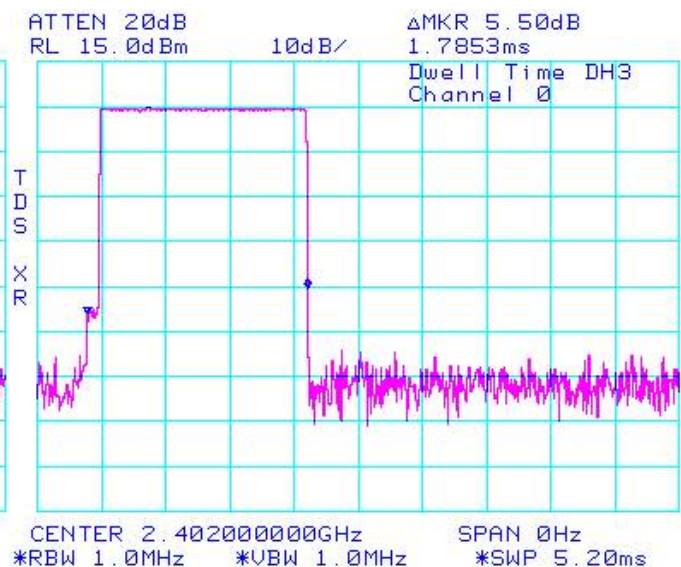


Figure 3-16: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH3



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-17: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH3

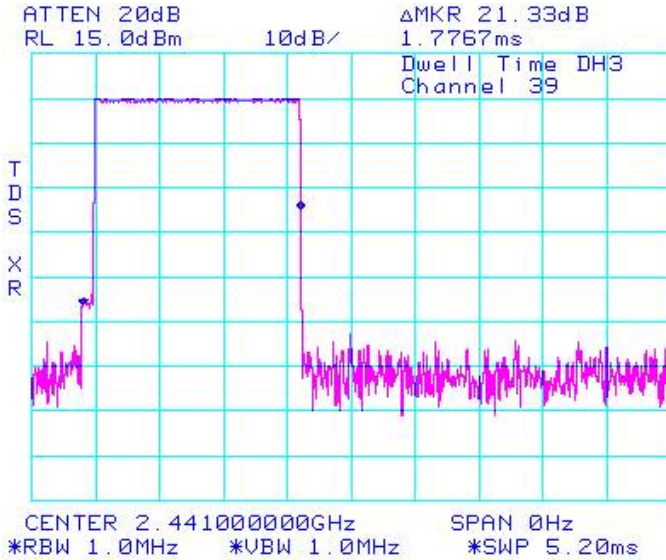


Figure 3-18 : Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH3

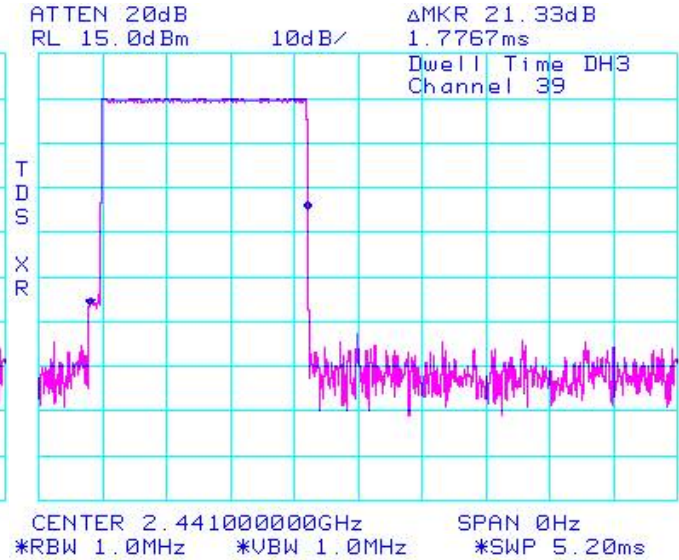


Figure 3-19: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH5

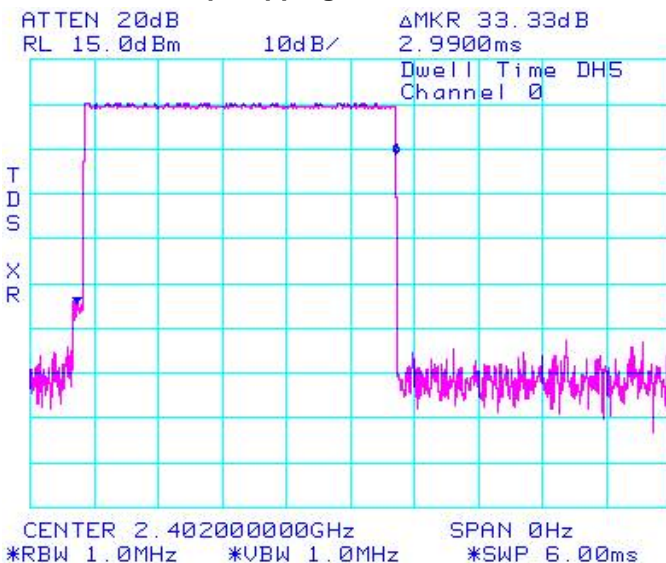
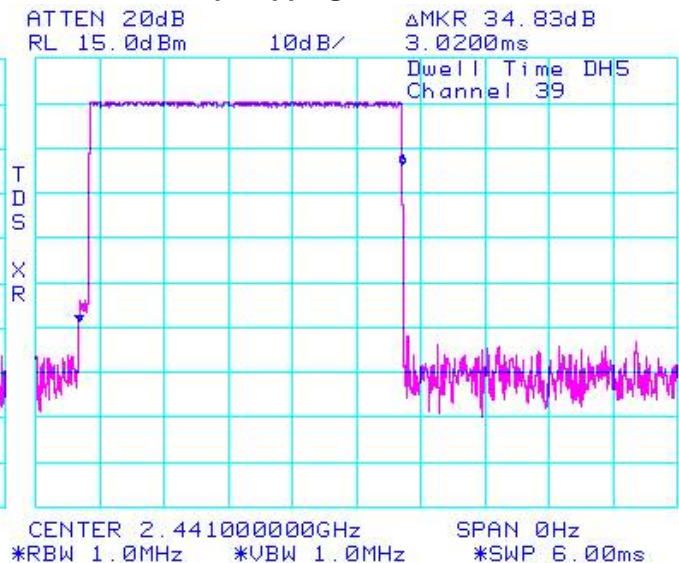


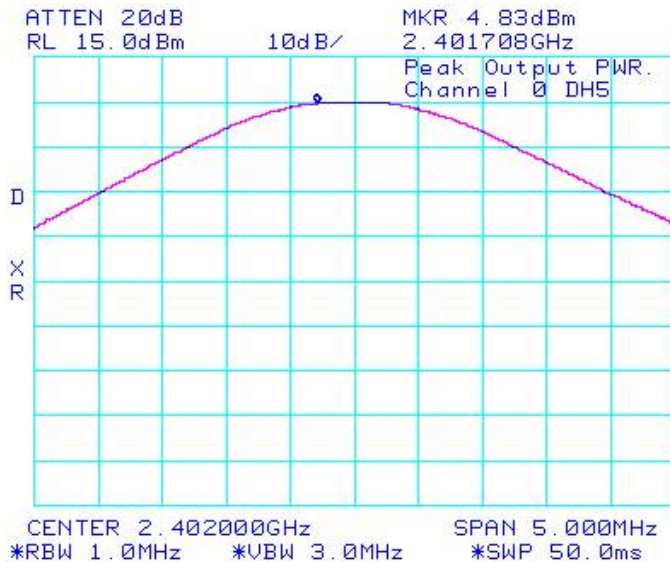
Figure 3-20: Time of Occupancy (Dwell Time)
Freq. Hopping, Static PBRs, DH5



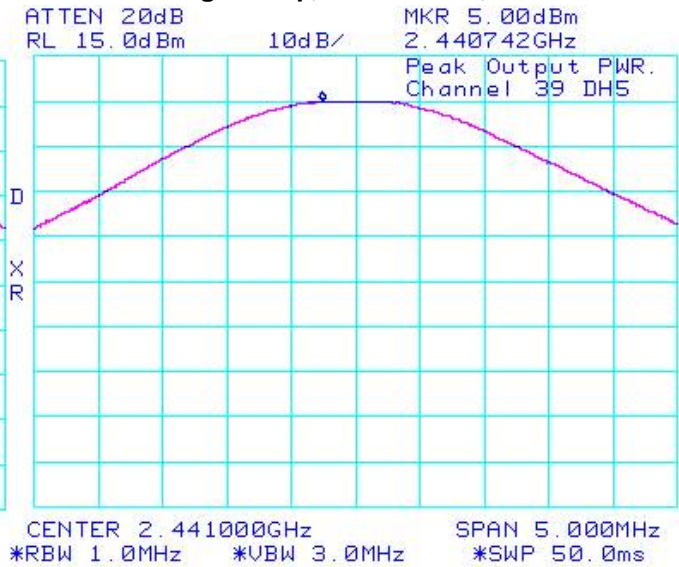
RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

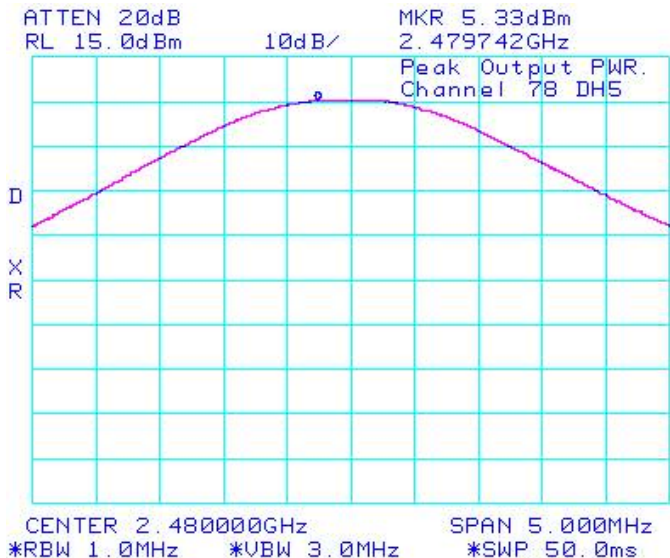
**Figure 3-22: Max. Peak Conducted Output Power
Single Freq., Static PBRS, DH5**



**Figure 3-23: Max. Peak Conducted Output Power
Single Freq., Static PBRS, DH5**



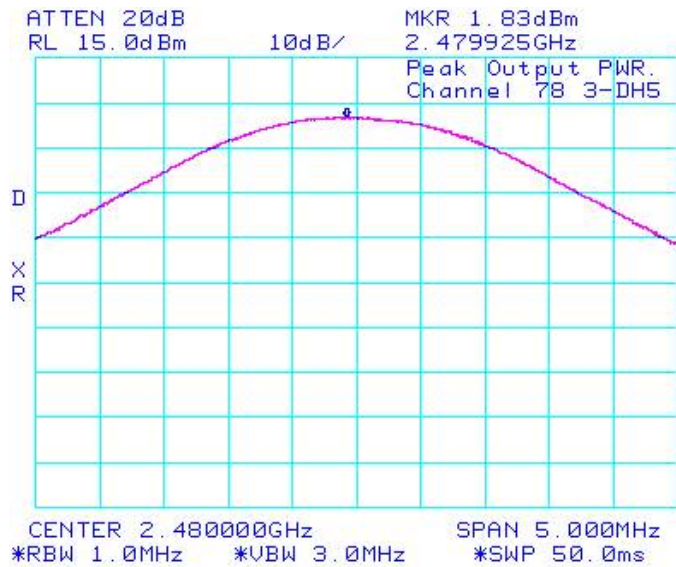
**Figure 3-24: Max. Peak Conducted Output Power
Single Freq., Static PBRS, DH5**



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

**Figure 3-27: Max. Peak Conducted Output Power
Single Freq., Static PBRS, 3-DH5**



Band Edge Compliance

The EUT met the requirements of the band edge compliance as per 47 CFR 15.247(c) and RSS-210. Low channel (0) and high channel (78) were measured. Bluetooth was operating in single frequency and hopping mode.

Using pattern type “Static PRBS” and packet type “DH5” during the measurements.

Bluetooth Channel	Operating Mode	Measured Level (dBc)	Limit (dBc)	Margin (dB)
0	Single Frequency	-27.33	-20	-7.33
78	Single Frequency	-31.50	-20	-11.50
0 - 78	Hopping	-27.17	-20	-7.17
0 - 78	Hopping	-30.50	-20	-10.50

The environmental test conditions were: Temperature 22°C
 Pressure 1008 mb
 Relative Humidity 34%

See figures 3-28 to 3-31 for the plots of the band edge compliance measurements.

RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008	Author Data Gurjeev Singh

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-28: Band Edge Compliance
Single Freq., Static PBRS, DH5

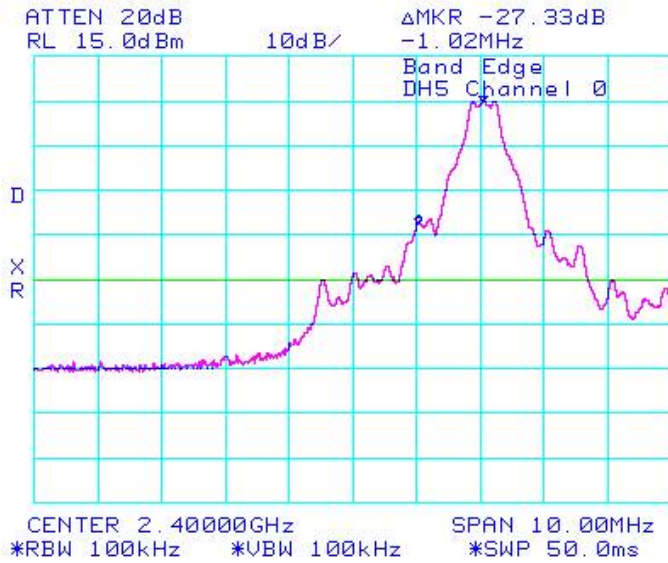


Figure 3-29: Band Edge Compliance
Single Freq., Static PBRS, DH5

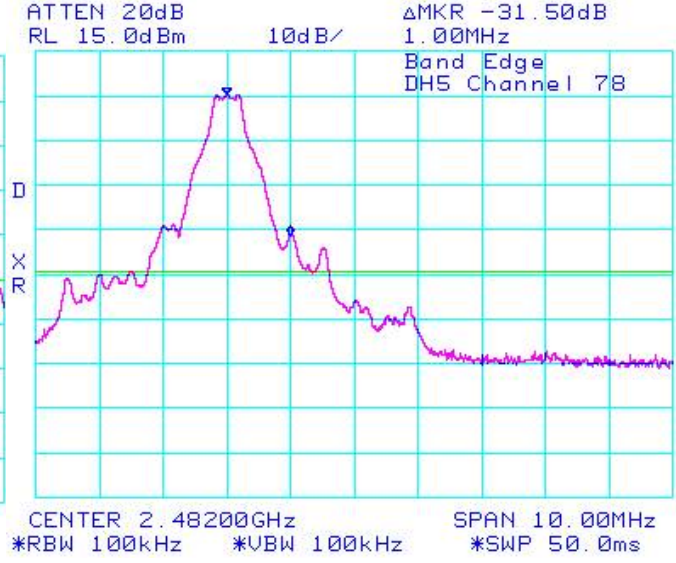


Figure 3-30: Band Edge Compliance
Freq. Hopping, Static PBRS, DH5

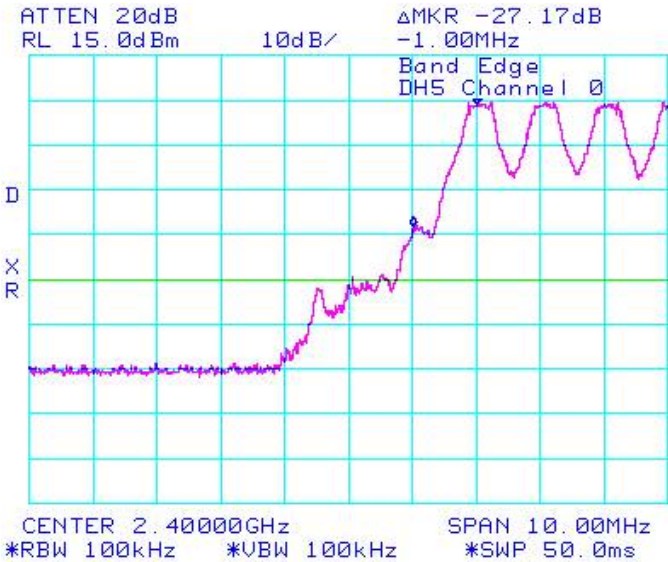
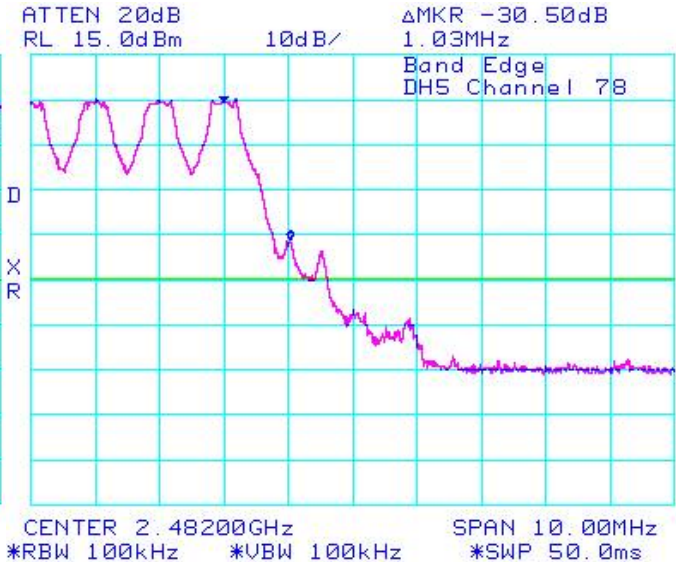


Figure 3-31: Band Edge Compliance
Freq. Hopping, Static PBRS, DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 2-36: Spurious RF Conducted Emissions
Single Freq., Static PBRs, DH5,

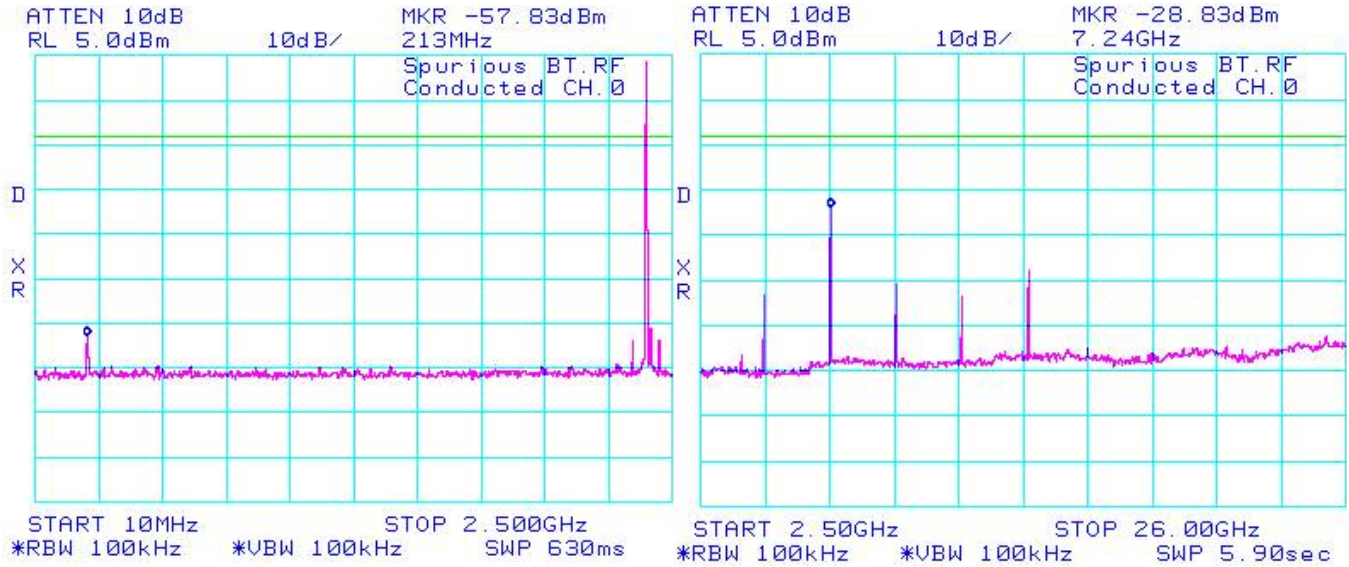
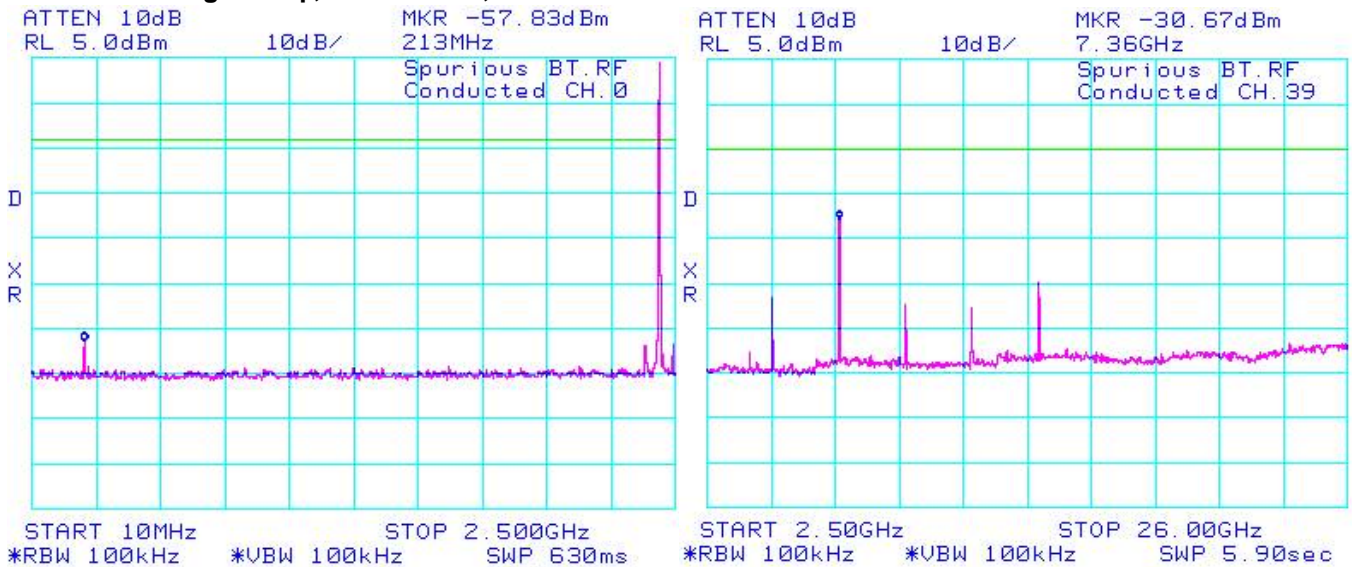


Figure 2-37: Spurious RF Conducted Emissions
Single Freq., Static PBRs, DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 2-38: Spurious RF Conducted Emissions
Single Freq., Static PBRs, DH5

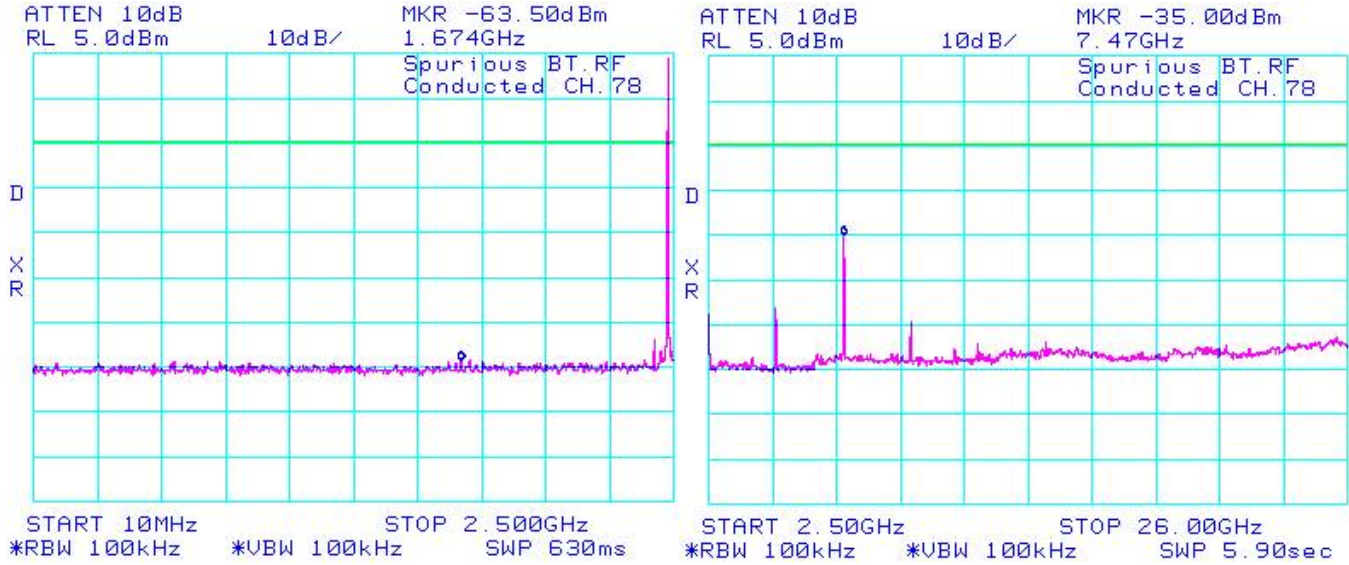
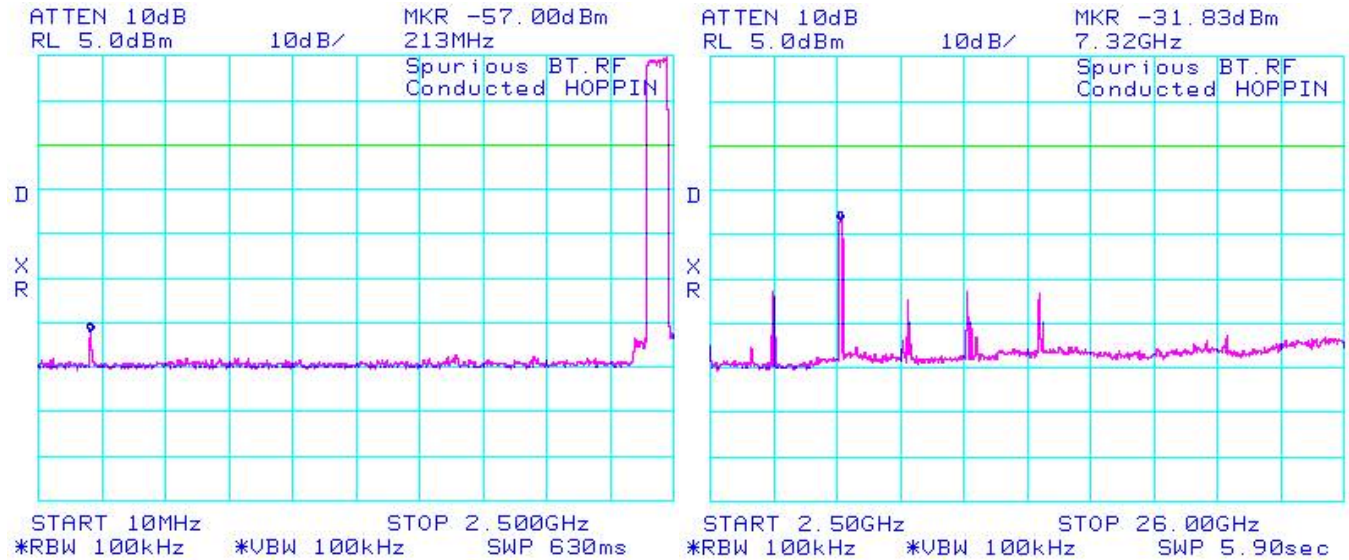


Figure 2-39: Spurious RF Conducted Emissions
Freq. Hopping, Static PBRs, DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-40 : Spurious RF Conducted Emissions

Single Freq., Static PBRs, 3-DH5

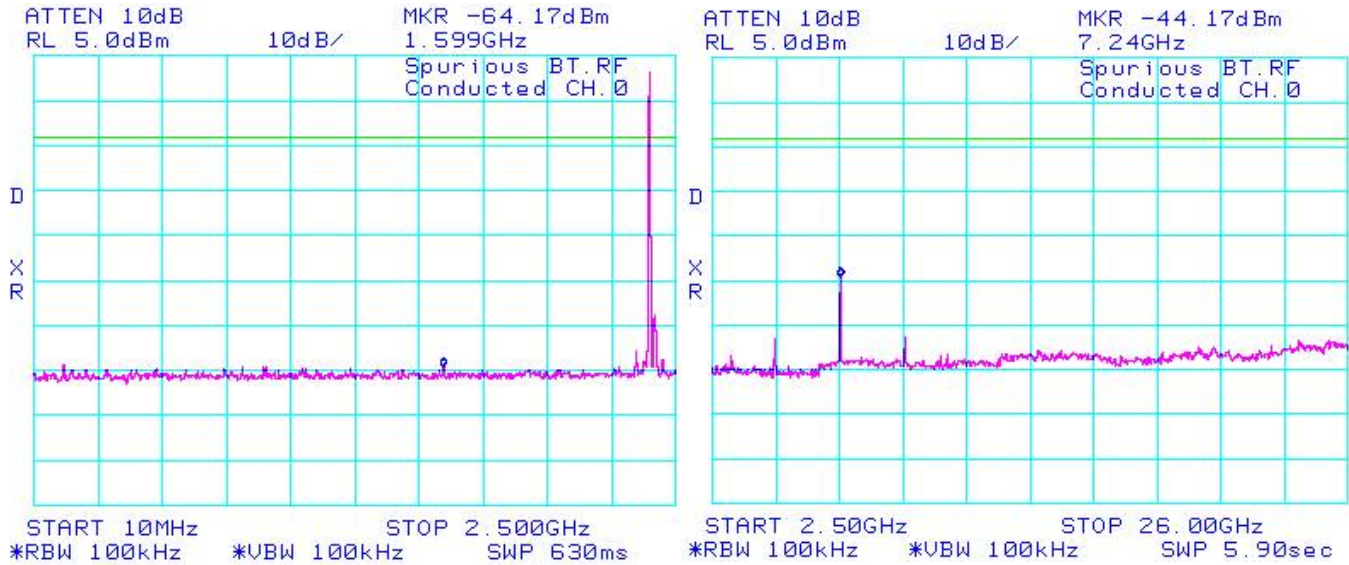
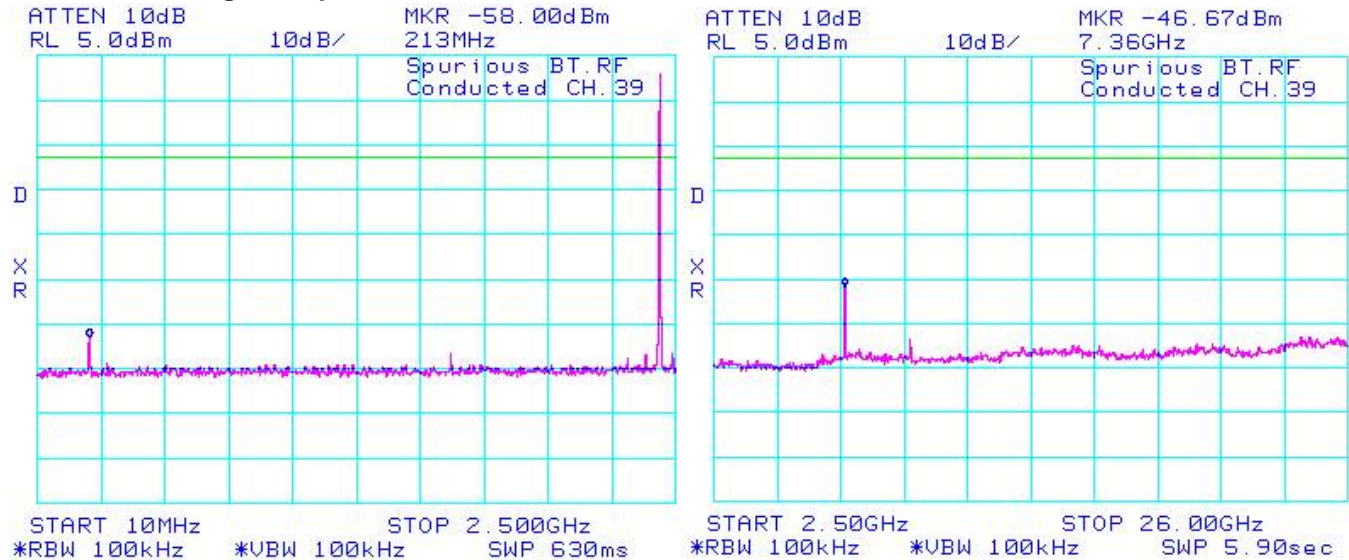


Figure 3-41: Spurious RF Conducted Emissions

Single Freq., Static PBRs, 3-DH5



RTS RIM Testing Services	EMI Test Report for the BlackBerry® smartphone Model RBW71CW APPENDIX 2	
	Test Report No. RTS-1191-0808-19	Dates of Test August 12 – September 12, 2008

Bluetooth RF Conducted Emission Test Results cont'd

Figure 3-42: Spurious RF Conducted Emissions
Single Freq., Static PBRs, 3-DH5

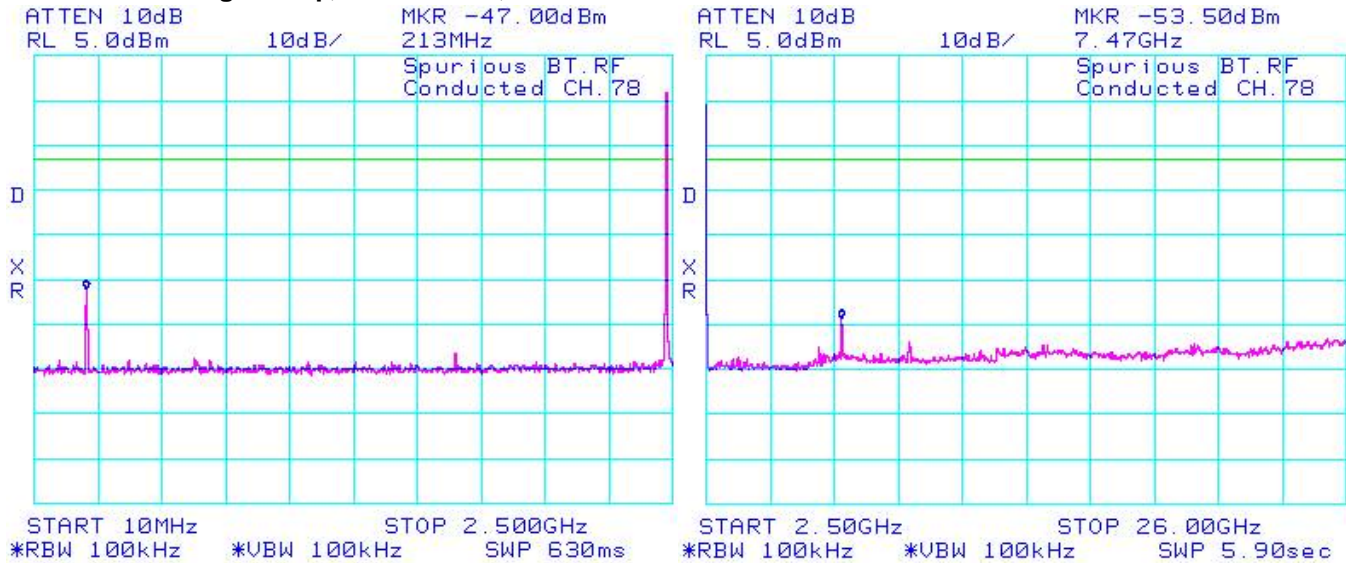


Figure 3-43 : Spurious RF Conducted Emissions
Freq. Hopping, Static PBRs, 3-DH5

