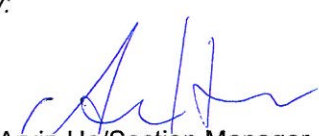
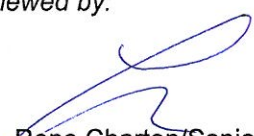


Prüfbericht - Nr.: 10038189 001 <i>Test Report No.:</i>			Seite 1 von 34 <i>Page 1 of 34</i>				
Auftraggeber: <i>Client:</i>			Kensington Computer Products Group, a division of ACCO Brands, LLC 333 Twin Dolphin Dr. 6F, Redwood Shores, CA 94065, USA				
Gegenstand der Prüfung: Bluetooth Ultimate USB Adapter <i>Test item:</i>							
Bezeichnung: <i>Identification:</i>		M01157		Serien-Nr.: <i>Serial No.:</i>			
Wareneingangs-Nr.: <i>Receipt No.:</i>		TPE66389		Eingangsdatum: <i>Date of receipt:</i>			
Prüfort: <i>Testing location:</i>		TÜV Rheinland Taiwan Ltd. 11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105 Taiwan FCC Registration No.: 365730					
Prüfgrundlage: <i>Test specification:</i>		FCC CFR47 Part 15: Subpart C Section 15.247 RSS-210 (Issue 8): Dec. 2010 RSS-Gen (Issue 3): Dec. 2010					
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>					
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland Taiwan Ltd.					
geprüft/ tested by:			kontrolliert/ reviewed by:				
							
2012-08-30 Arvin Ho/Section Manager Datum Name/Stellung Unterschrift Date Name/Position Signature			2012-08-31 Rene Charton/Senior Project Manager Datum Name/Stellung Unterschrift Date Name/Position Signature				
Sonstiges/ Other Aspects:							
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet </td> <td style="width: 50%; vertical-align: top;"> Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested </td> </tr> </table>						Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested						
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>							

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 OUTPUT POWER

RESULT: Passed

5.1.3 6dB BANDWIDTH

RESULT: Passed

5.1.4 99% BANDWIDTH

RESULT: Passed

5.1.5 CONDUCTED SPURIOUS EMISSIONS AND FREQUENCY BAND EDGE MEASURED IN 100kHz BANDWIDTH

RESULT: Passed

5.1.6 PEAK POWER DENSITY

RESULT: Passed

5.1.7 SPURIOUS EMISSION

RESULT: Passed

5.1.8 MAINS CONDUCTED EMISSION

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	5
2.1	TEST FACILITIES	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	6
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY.....	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.5	SUBMITTED DOCUMENTS	9
4.	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	10
4.2	TEST OPERATION AND TEST SOFTWARE	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	11
4.5	TEST SETUP DIAGRAM	11
5.	TEST RESULTS	13
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	13
5.1.1	<i>Antenna Requirement</i>	<i>13</i>
5.1.2	<i>Output Power</i>	<i>14</i>
5.1.3	<i>6dB Bandwidth</i>	<i>17</i>
5.1.4	<i>99% Bandwidth</i>	<i>20</i>
5.1.5	<i>Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth..</i>	<i>23</i>
5.1.6	<i>Peak Power Density.....</i>	<i>26</i>
5.1.7	<i>Spurious Emission</i>	<i>29</i>
5.1.8	<i>Mains Conducted Emission.....</i>	<i>30</i>
6.	SAFETY HUMAN EXPOSURE	31
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE.....	31
6.1.1	<i>Electromagnetic Fields.....</i>	<i>31</i>
7.	PHOTOGRAPHS OF THE TEST SET-UP	32
8.	LIST OF TABLES	34
9.	LIST OF PHOTOGRAPHS	34

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Photo

(File:10038189APPENDIX1)

Appendix 2: Test Result of Radiated Emissions

(File:10038189APPENDIX2)

Appendix 3: Test Result of Mains Conducted Emissions

(File:10038189APPENDIX3)

Test Specifications

The following standards were applied (in bold: product standards, otherwise: basic standards).

Table 1: Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247 KDB 558074 of March 23, 2005

2. Test Sites

2.1 Test Facilities

TUV Rheinland Taiwan Ltd.

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)
FCC Registration No.: 365730

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	R&S	ESCI 7	1166.5950K0 7-100797-Pt	Nov. 09, 2012
Bilog Antenna	TESEQ	CBL6111D	29802	Oct. 01, 2012
Pre-Amplifier	HP	8447F	2805A03335	Jan. 02, 2012
Spectrum Analyzer	R&S	FSV 40	100921	Oct. 12, 2012
Horn Antenna (1GHz~18GHz)	COM-POWER	AHA118	701101	Dec. 27, 2012
Horn Antenna (18GHz~25GHz)	COM-POWER	AH840	101031	Oct. 1, 2012
Power meter	R&S	NRVD	100439	Mar. 25, 2012
Power sensor	R&S	NRV-Z1	100013	Mar. 25, 2012
Temp. & Humid. Chamber	Giant Force	GCT-099-40-S	MAF0103-007	May. 13, 2013

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	$\pm 1 \text{ dB}$
Adjacent channel power	$\pm 3 \text{ dB}$
Radiated emission of transmitter, valid up to 26 GHz	$\pm 6 \text{ dB}$
Radiated emission of receiver, valid up to 26 GHz	$\pm 6 \text{ dB}$
Temperature	$\pm 2 \text{ }^{\circ}\text{C}$
Humidity	$\pm 10 \text{ } \%$

3. General Product Information

3.1 Product Function and Intended Use

Bluetooth Ultimate USB Adapter M01157 enables wireless connectivity of your existing PC or notebook using the latest Bluetooth Technology and compliant with Bluetooth Standard 4.0 which support Bluetooth low energy feature.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 Ratings and System Details

Table 4: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth Ultimate USB Adapter
FCC ID	GV3M01157
Type Designation	M01157
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	1 MHz (BR and EDR Mode), 2Mhz (LE Mode)
Channel number	79 (BR and EDR Mode), 40 (LE Mode)
Extreme Temperature Range	-10°C to 50°C
Operation Voltage	DC 5.0V (from USB Port)
Modulation	GFSK, $\pi/4$ QPSK, 8 DPSK
Antenna gain	-11.27 dBi

Note:

This test report is for the LE operation mode.

For the BR and EDR operation mode, please refer to test report No. 10038190 001

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Receiving
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 4. All testing were performed according to the procedures in ANSI C63.4: 2003.

Full test was applied on all test modes, but only worst case was shown.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Kind of Equipment	Manufacturer	Model Name	S/N
Laptop	MSI	MSI4532 (CX420MX)	CX420 MX-233TWK 1008000096

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

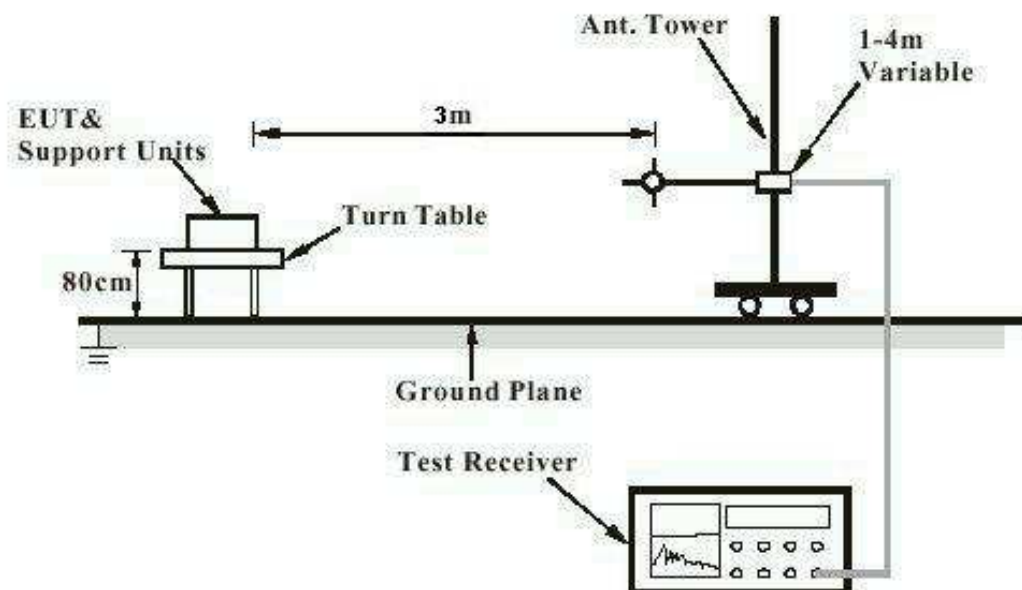


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

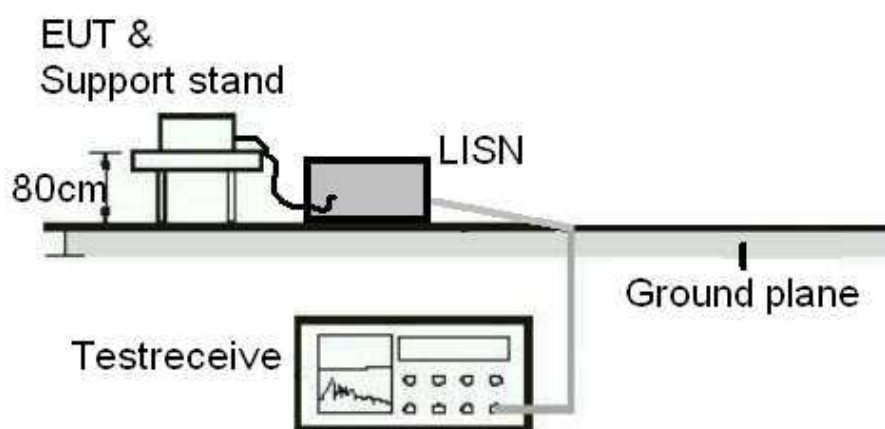
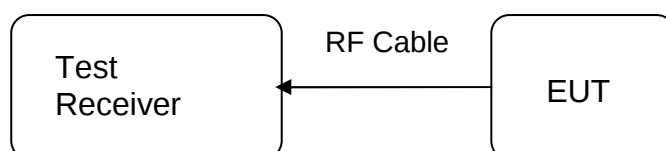


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2011-10-18
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 and RSS-Gen 7.1.4
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an internal antenna with an directional gain of -11.27 dBi, and the antenna is a printed PCB trace with no possibility of replacement. Therefore, the EUT is considered to comply the provision.

Refer to EUT photo for details.

5.1.2 Output Power

RESULT:**Passed**

Test date : 2011-12-15
Test standard : FCC Part 15.247(b)(1), RSS-210 A8.4(2)
Basic standard : ANSI C63.4: 2003
Limit : 1 Watt
Kind of test site : Shielded room

Test setup

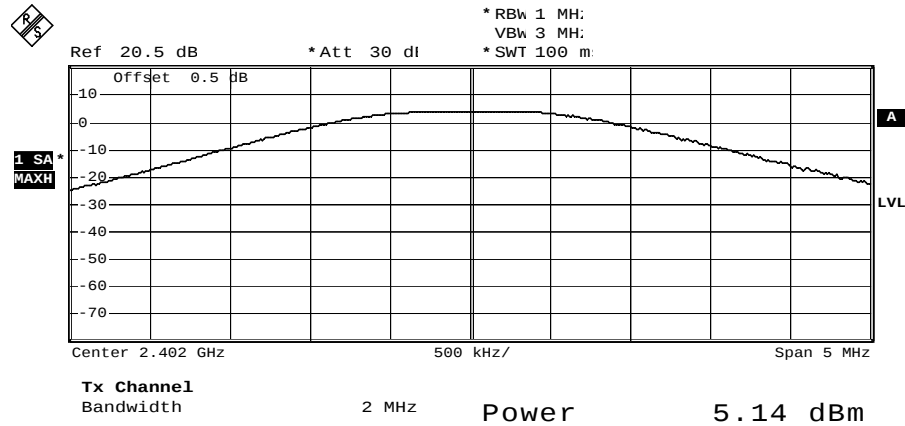
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 22°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

Table 5: Test result of Output Power, GFSK modulation

Channel	Channel Frequency (MHz)	Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	5.14	0.0033	1
Middle Channel	2442	7.12	0.0052	1
High Channel	2480	8.19	0.0066	1

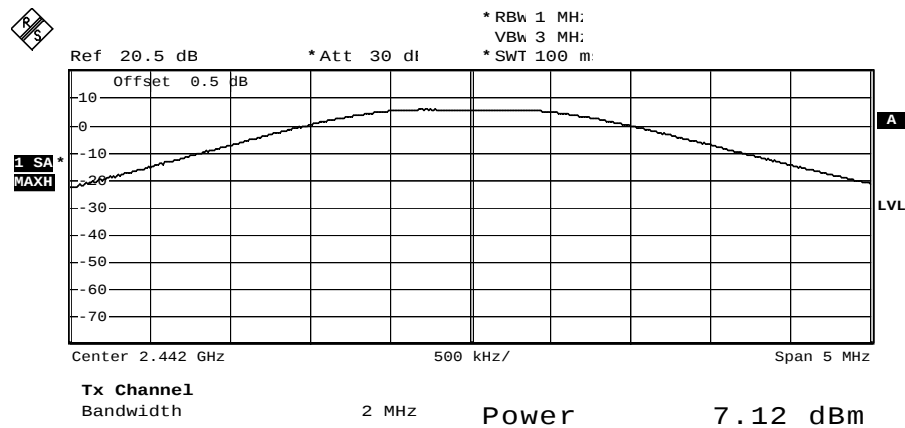
Test Plot of Output Power

Low Channel

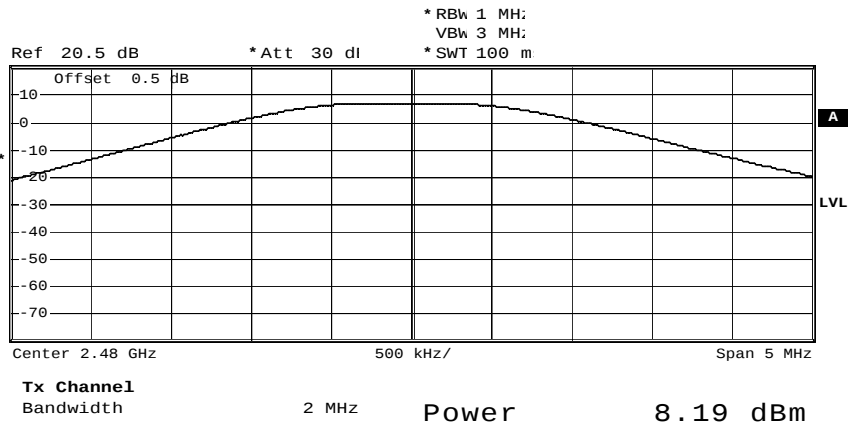


Date: 15.DEC.2011 09:49:24

Middle Channel



Date: 15.DEC.2011 09:48:58

High Channel


Date: 15.DEC.2011 09:48:28

5.1.3 6dB Bandwidth

RESULT:**Passed**

Date of testing : 2011-11-23
Test standard : FCC Part 15.247(a)(1), RSS-210 A8.2(a)
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

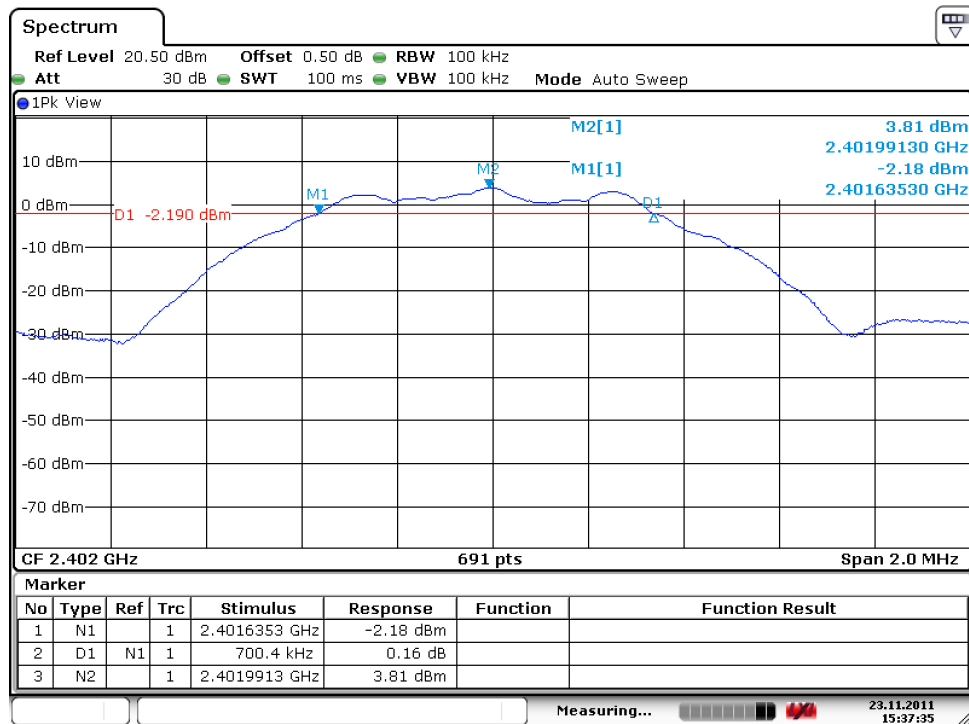
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101 kPa

Table 6: Test result of 6dB Bandwidth, GFSK modulation

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	700.4	/	Pass
Mid Channel	2442	703.3	/	Pass
High Channel	2480	720.7	/	Pass

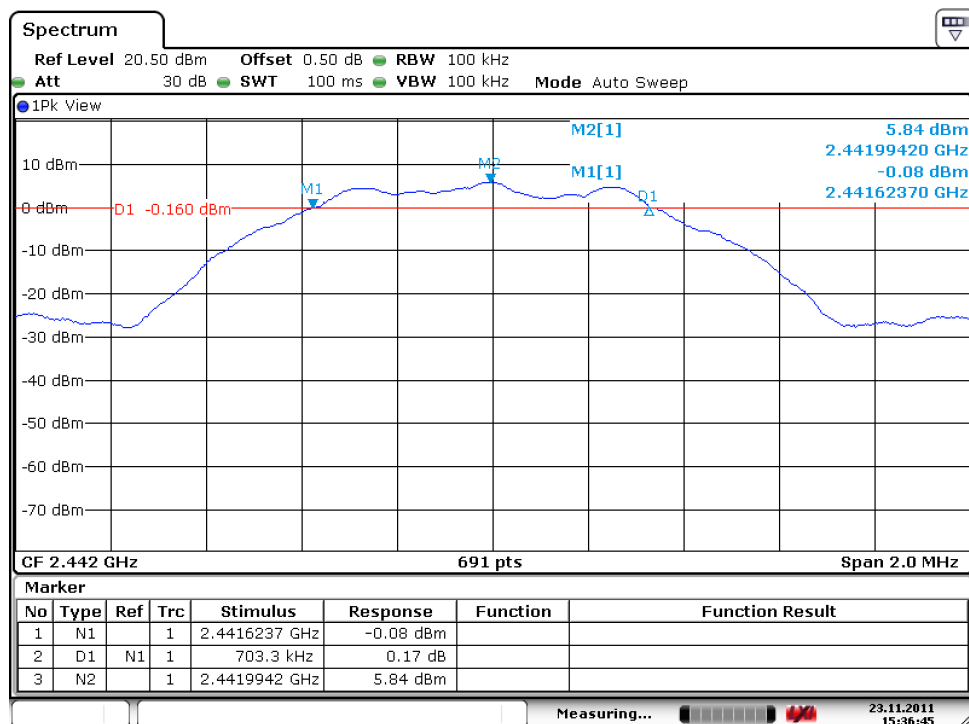
Test Plot of 6dB Bandwidth

Low Channel



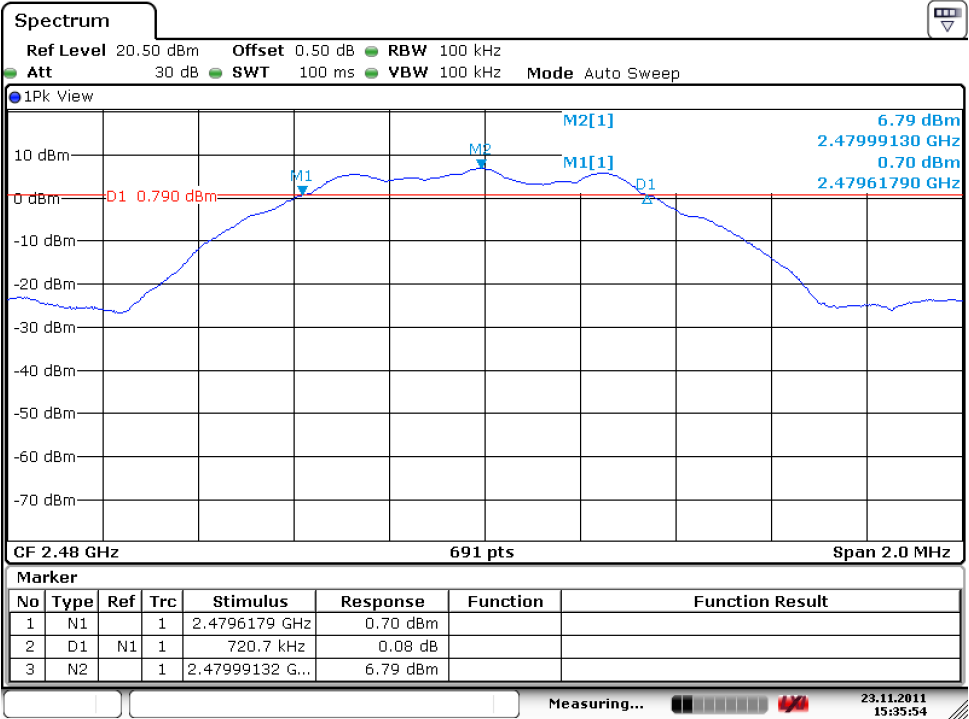
Date: 23.NOV.2011 15:37:35

Middle Channel



Date: 23.NOV.2011 15:36:45

High Channel



Date: 23.NOV.2011 15:35:54

5.1.4 99% Bandwidth**RESULT:****Passed**

Date of testing : 2012-08-16
Test standard : RSS-Gen (Issue 3) Dec. 2010
Basic standard : RSS-Gen (Issue 3) Dec. 2010
Kind of test site : Shielded room

Test setup

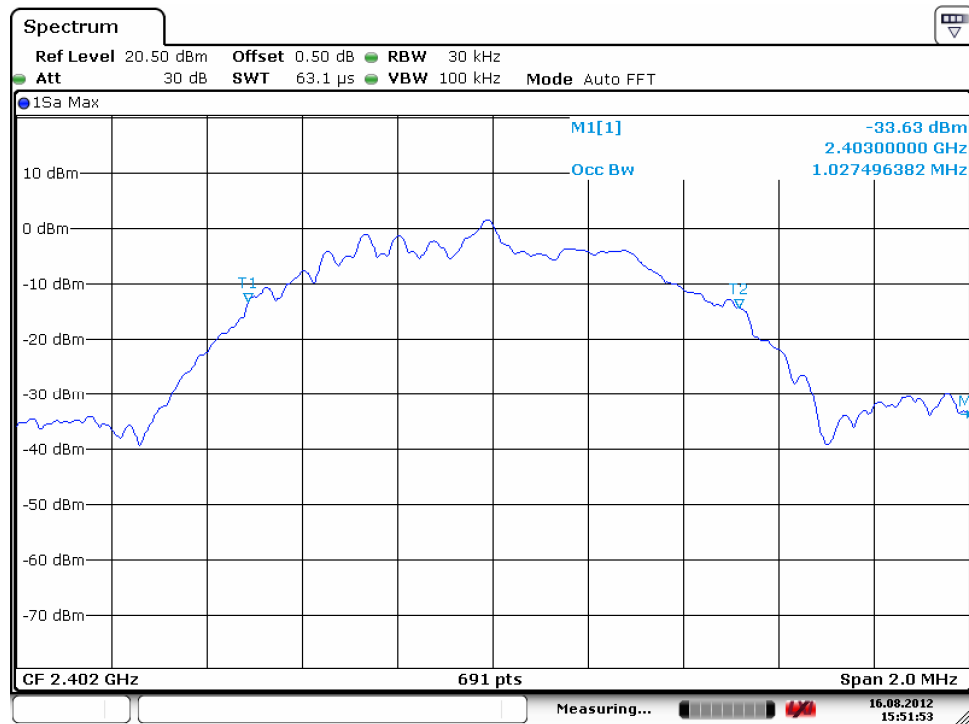
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101 kPa

Table 7: Test result of 99% Bandwidth, GFSK modulation

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1027.5	/	Pass
Mid Channel	2442	1021.7	/	Pass
High Channel	2480	1027.5	/	Pass

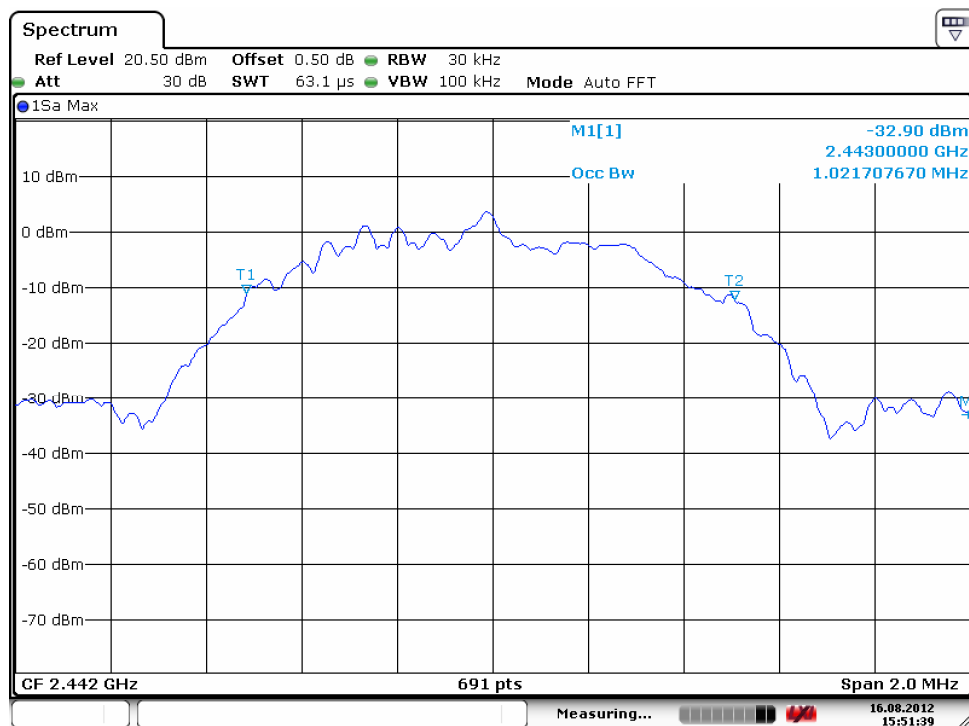
Test Plot of 99% Bandwidth

Low Channel



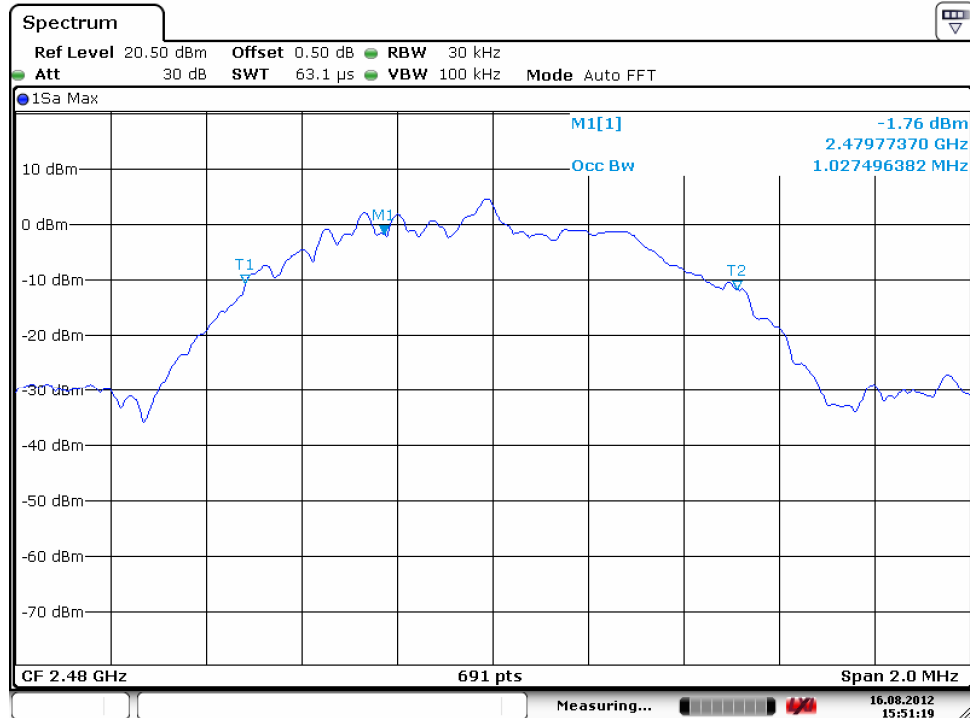
Date: 16.AUG.2012 15:51:54

Middle Channel



Date: 16.AUG.2012 15:51:39

High Channel



Date: 16.AUG.2012 15:51:20

5.1.5 Conducted spurious emissions and Frequency Band Edge measured in 100kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2011-11-23
Test standard	:	FCC part 15.247(d), RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shielded room

Test setup

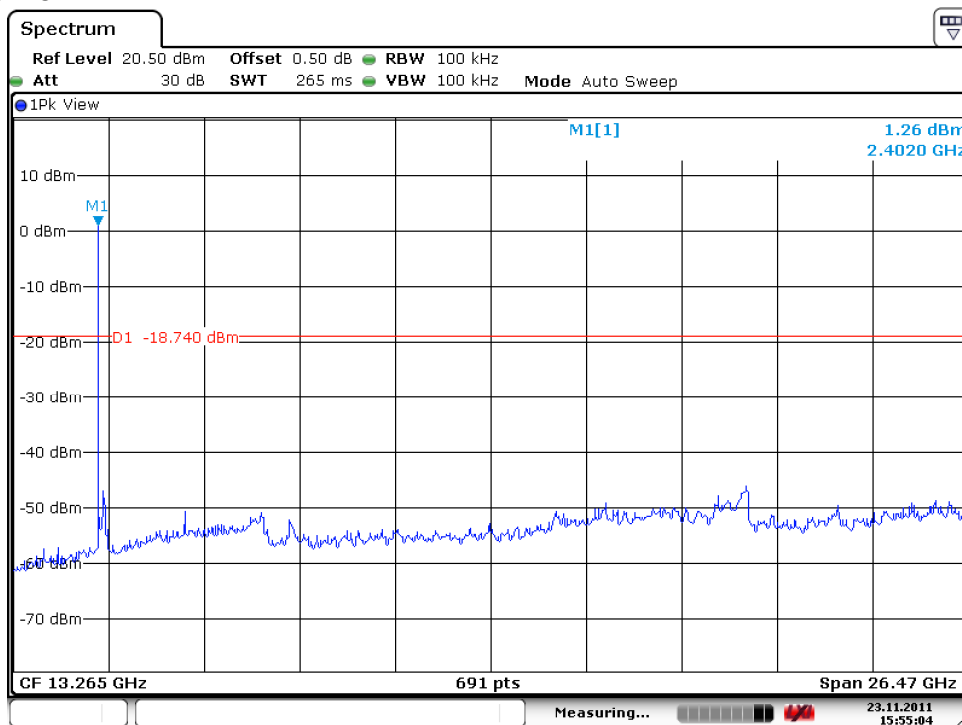
Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	22°C
Relative humidity	:	52%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to following test plot, and compliance is achieved as well.

Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

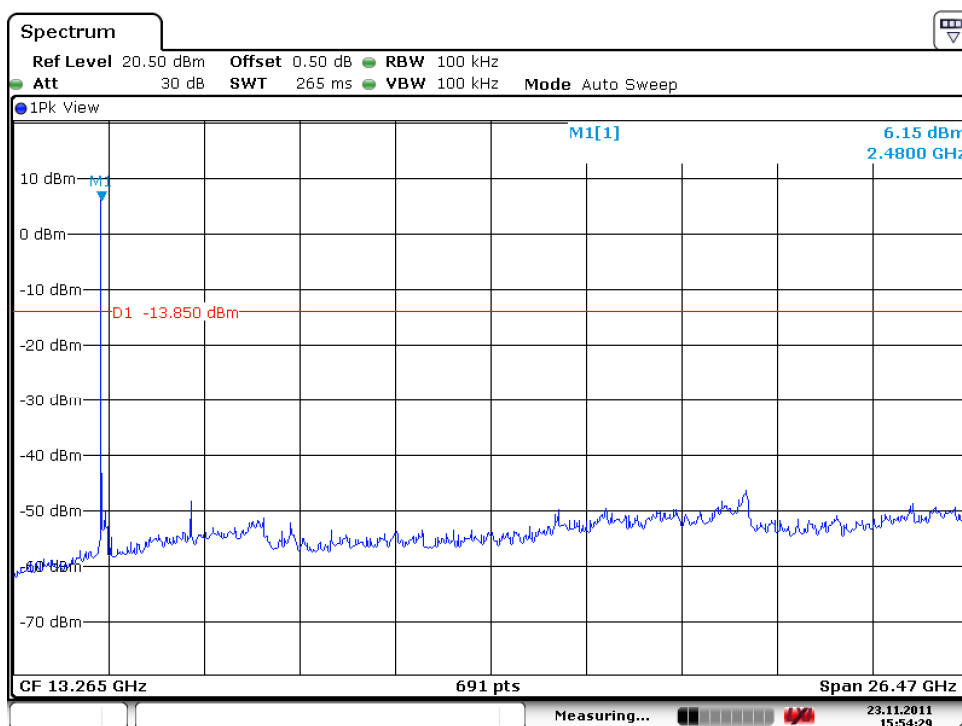
Test Plot of 100kHz Conducted Emissions

Low Channel



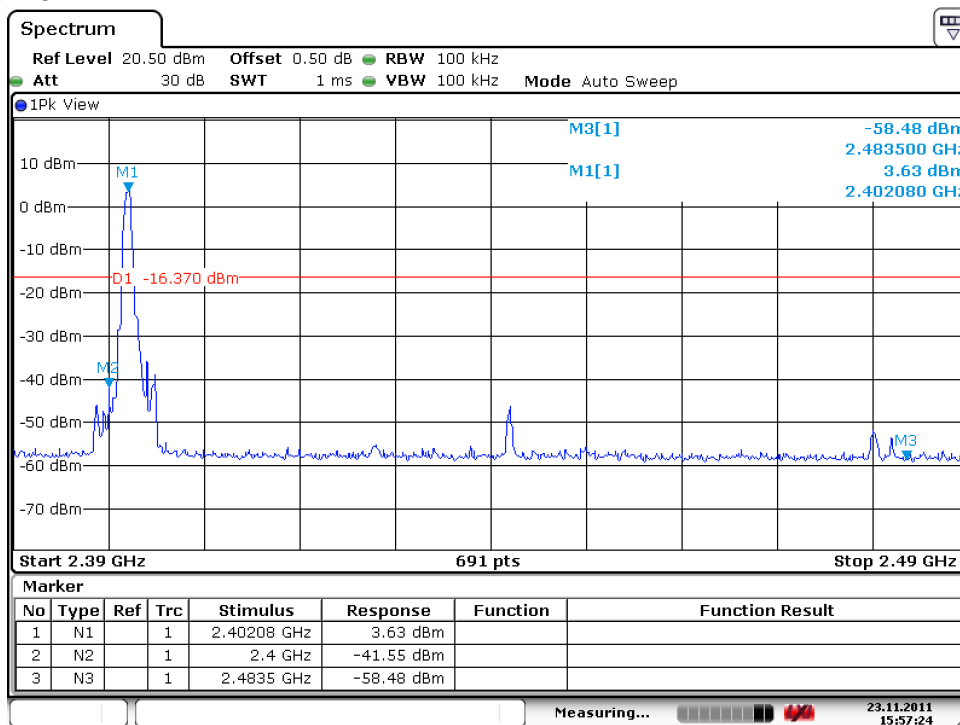
Date: 23.NOV.2011 15:55:04

High Channel



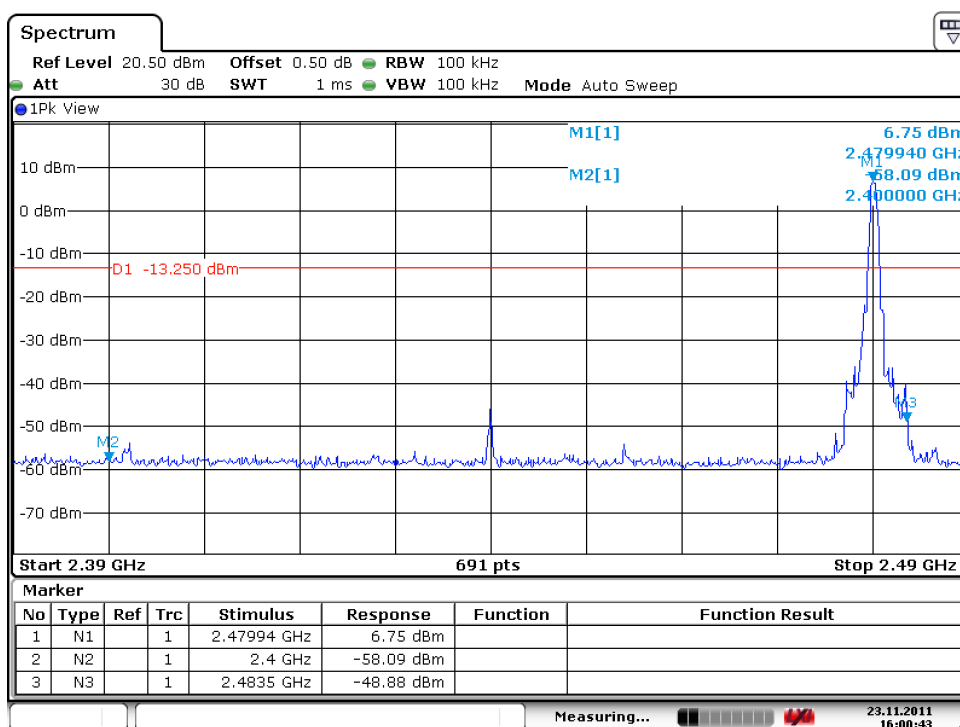
Date: 23.NOV.2011 15:54:29

Test Plot of 100kHz Bandwidth of Frequency Band Edge Low Channel



Date: 23.NOV.2011 15:57:24

High Channel



Date: 23.NOV.2011 16:00:43

5.1.6 Peak Power Density

RESULT:**Passed**

Date of testing : 2011-11-23
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Limit : 8 dBm (in 3kHz band)

Test setup

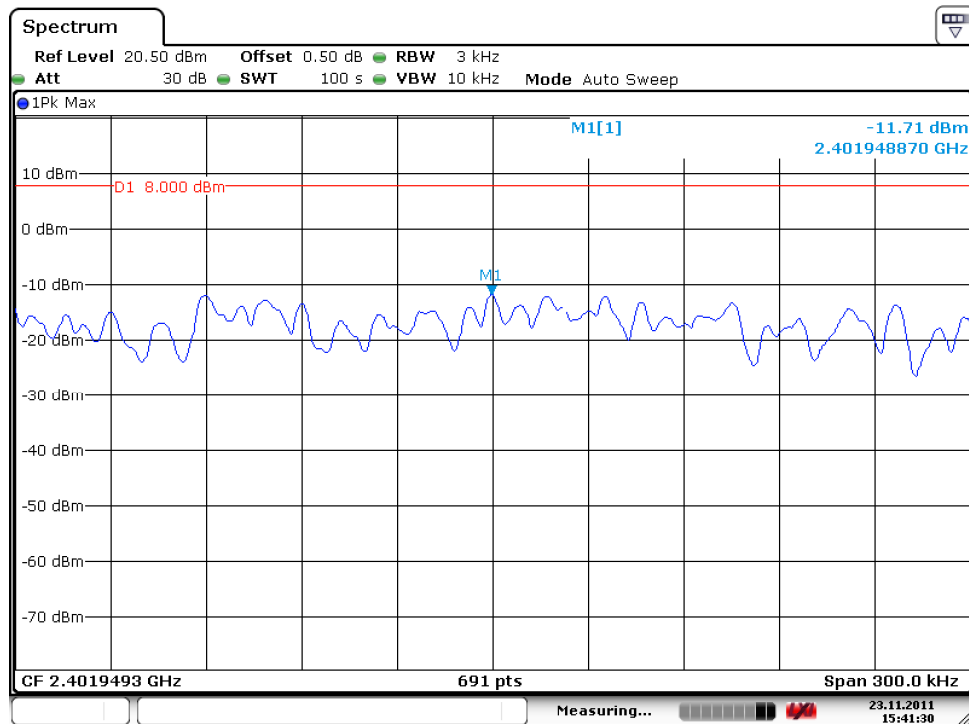
Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101 kPa

Table 8: Test result of Peak Power Density

Channel	Channel Frequency (MHz)	Peak Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2402	-11.71	8	Pass
Mid Channel	2442	-9.7	8	Pass
High Channel	2480	-8.84	8	Pass

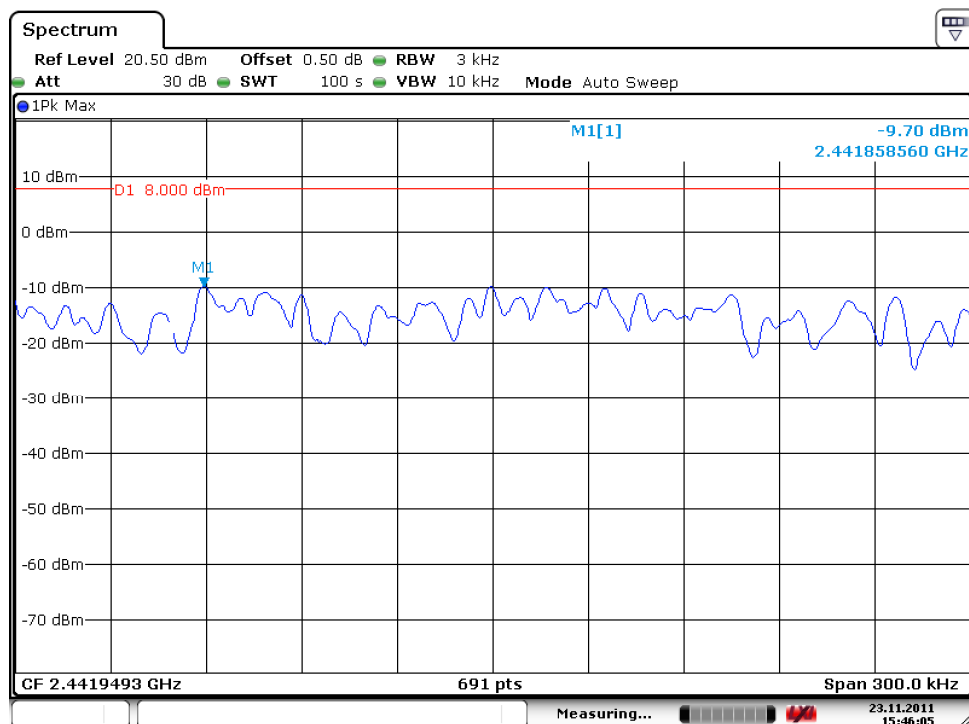
Test Plot of Peak Power Density

Low Channel



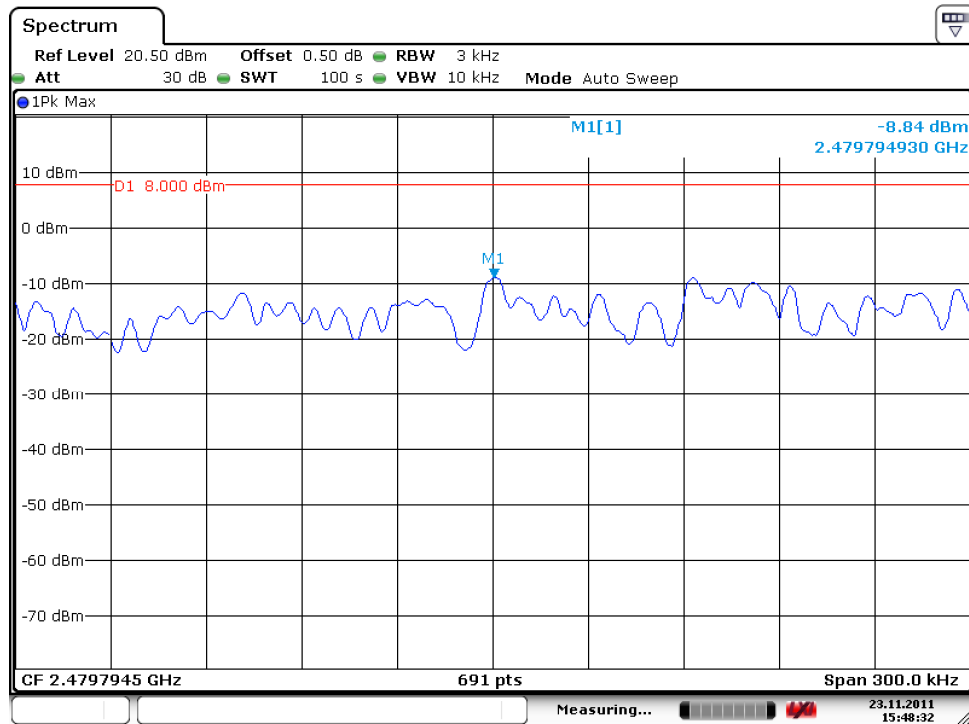
Date: 23.NOV.2011 15:41:30

Middle Channel



Date: 23.NOV.2011 15:46:05

High Channel



Date: 23.NOV.2011 15:48:32

5.1.7 Spurious Emission

RESULT:**Passed**

Date of testing	:	2011-11-29
Test standard	:	FCC part 15.247(d) , FCC 15.205, FCC 15.209, RSS-210 2.2, RSS-210 A8.5 and RSS-Gen 7.2.1
Basic standard	:	ANSI C63.4: 2003
Limits	:	Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-210 2.7 (Table 1), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-210 2.7 (Table 2 and 3). Emission radiated outside the specified frequency bands must comply with the radiated emission limits specified in FCC 15.209(a) and FCC 15.249(a), RSS-210 2.7 (Table 2 and 3) and RSS-210 A2.9(a).
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A, C
Ambient temperature	:	24°C
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Remark: Testing was carried out within frequency range 30MHz to the tenth harmonic. For details refer to **Appendix 2**. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The Z Axis orientation is the worst-case and recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

Prüfbericht - Nr.: 10038189 001

Test Report No.

Seite 30 von 34

Page 30 of 34

5.1.8 Mains Conducted Emission

RESULT:**Passed**

Date of testing : 2011-10-24
Test standard : FCC part 15.207(a)
Basic standard : ANSI C63.4: 2003
Limits : Refer to 15.207(a)
Kind of test site : Shield room

Test setup

Operation mode : A, C
Ambient temperature : 26°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Remark: For details refer to **Appendix 3**.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

Test standard : FCC KDB Publication 447498

Since maximum peak output power of the transmitter is $<60/f(\text{GHz})\text{mW}$, i.e.6.6mW $< 25 (=60/2.4)\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile Portable RF Exposure.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (Front View)



Photograph 2: Set-up for Spurious Emissions (Back View)



Photograph 3: Set-up for Mains Conducted Emissions (Front View)



Photograph 4: Set-up for Mains Conducted Emissions (Back View)



8. List of Tables

Table 1: Applied Standard and Test Levels	4
Table 2: List of Test and Measurement Equipment	5
Table 3: Emission Measurement Uncertainty.....	6
Table 4: Technical Specification of EUT	7
Table 5: Test result of Output Power, GFSK modulation	14
Table 6: Test result of 6dB Bandwidth, GFSK modulation	17
Table 6: Test result of 99% Bandwidth, GFSK modulation	20
Table 7: Test result of Peak Power Density	26

9. List of Photographs

Photograph 1: Set-up for Spurious Emissions (Front View).....	32
Photograph 2: Set-up for Spurious Emissions (Back View)	32
Photograph 3: Set-up for Mains Conducted Emissions (Front View)	33
Photograph 4: Set-up for Mains Conducted Emissions (Back View)	33

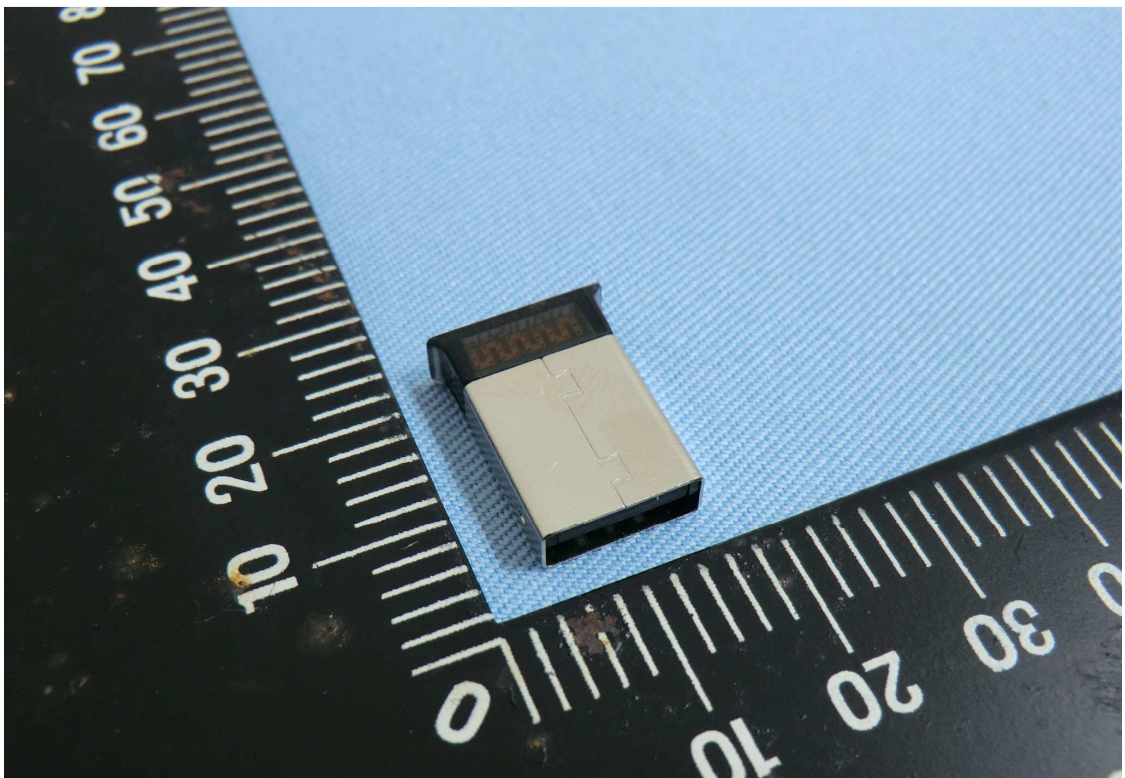
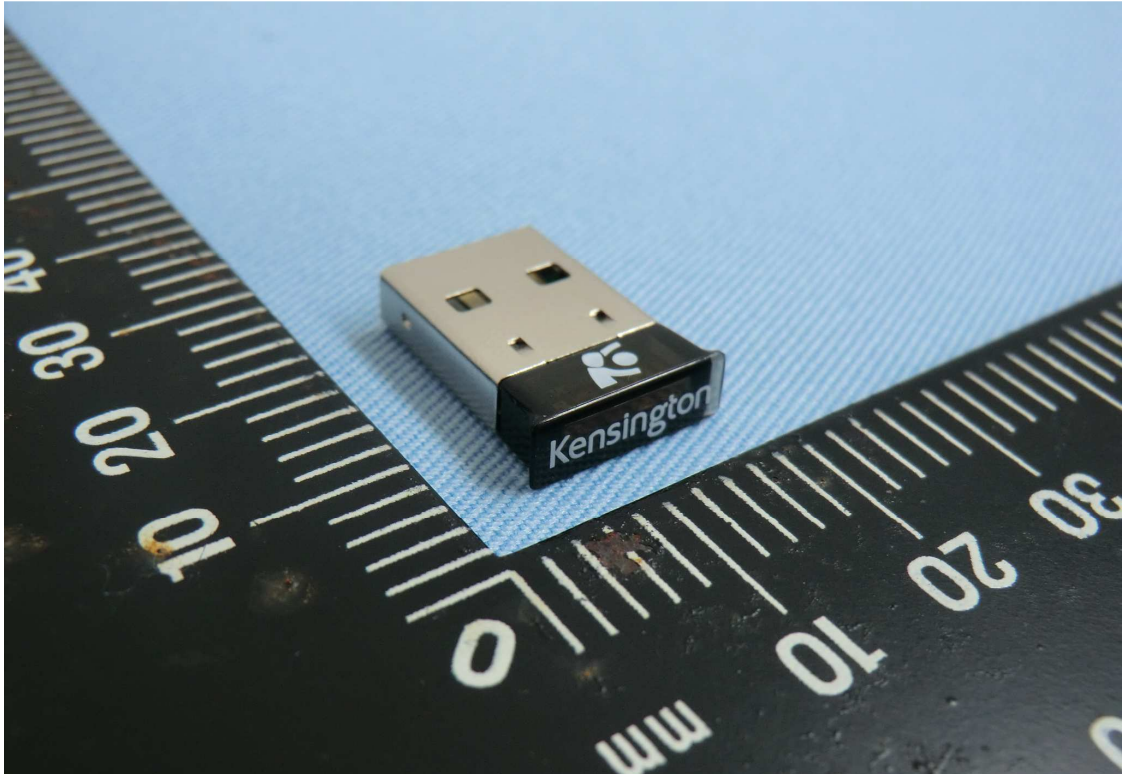
Test Report No.10038189 001

Appendix 1: IUT Photos

(File: 10038189Appendix1)

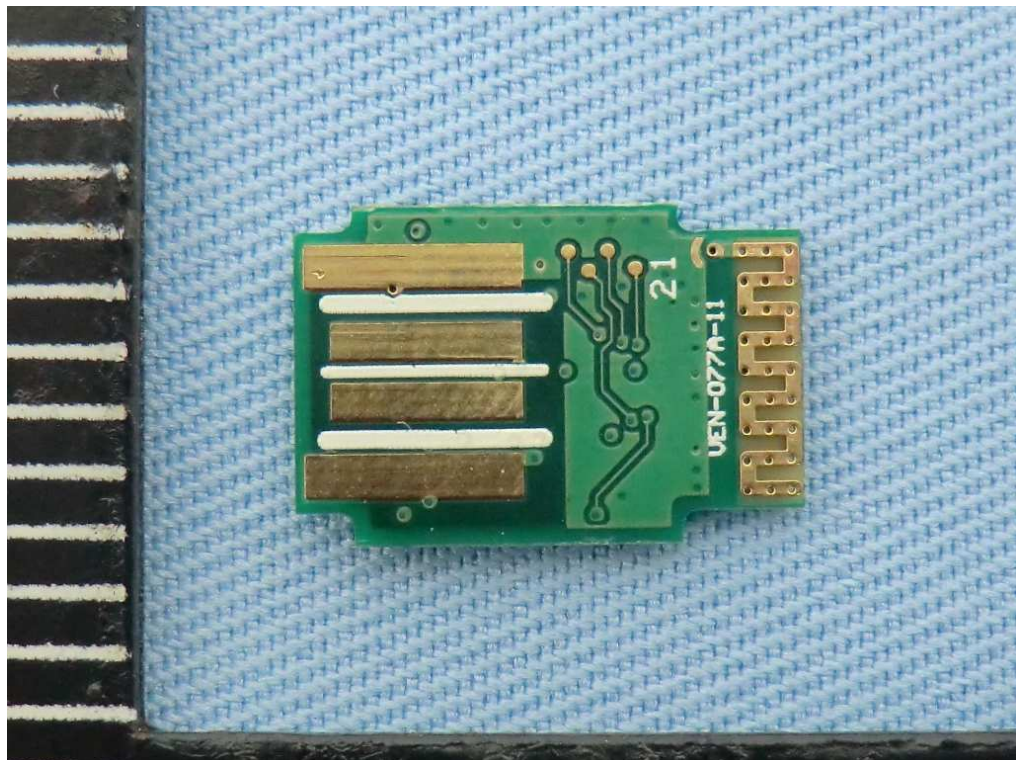
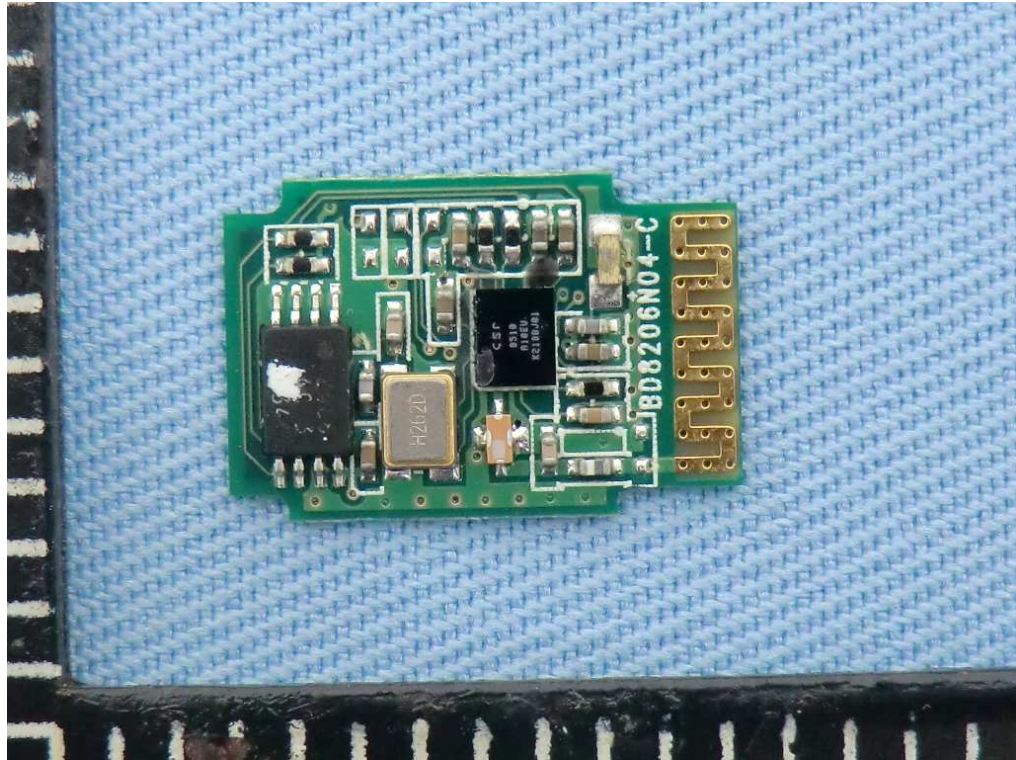
Product: Bluetooth Ultimate USB Adapter

Type Designation: M01157



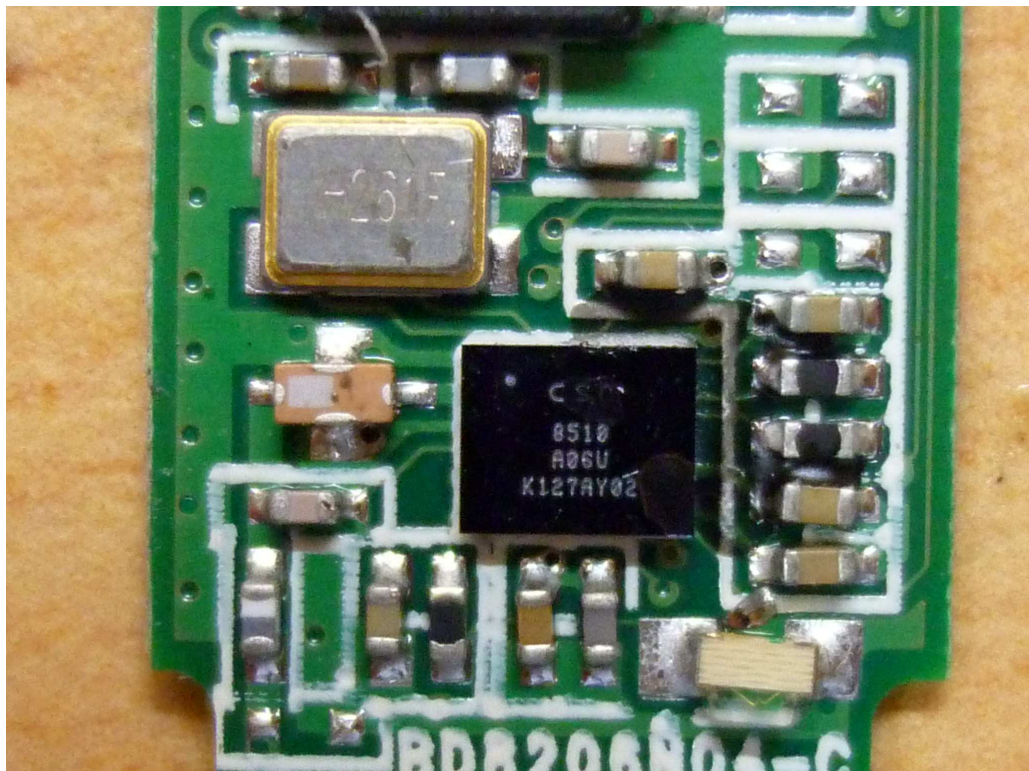
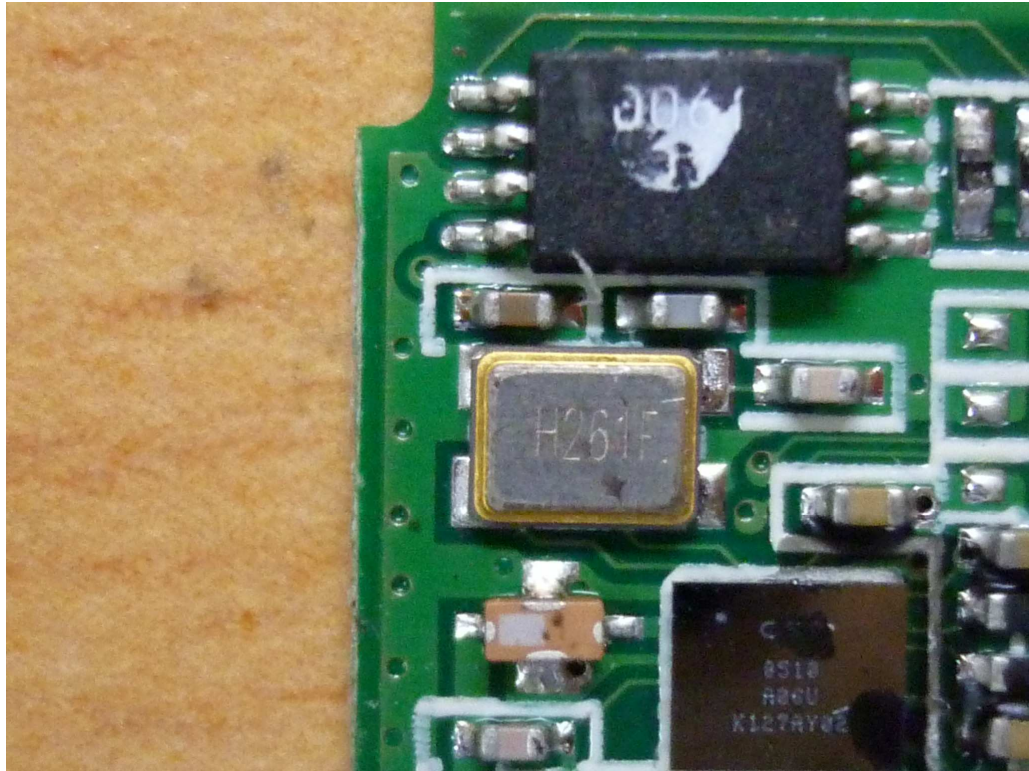
Product: Bluetooth Ultimate USB Adapter

Type Designation: M01157



Product: Bluetooth Ultimate USB Adapter

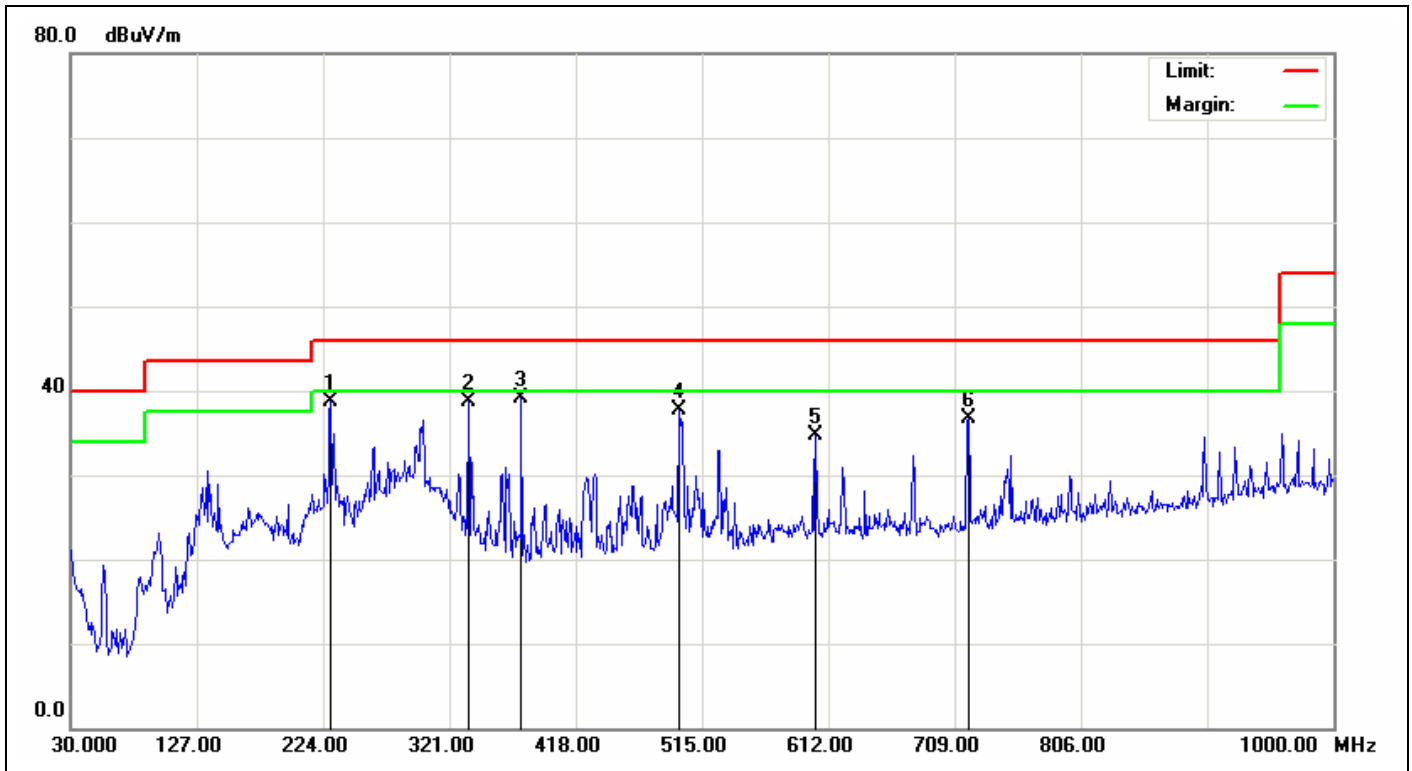
Type Designation: M01157



Test Report No.10038189 001

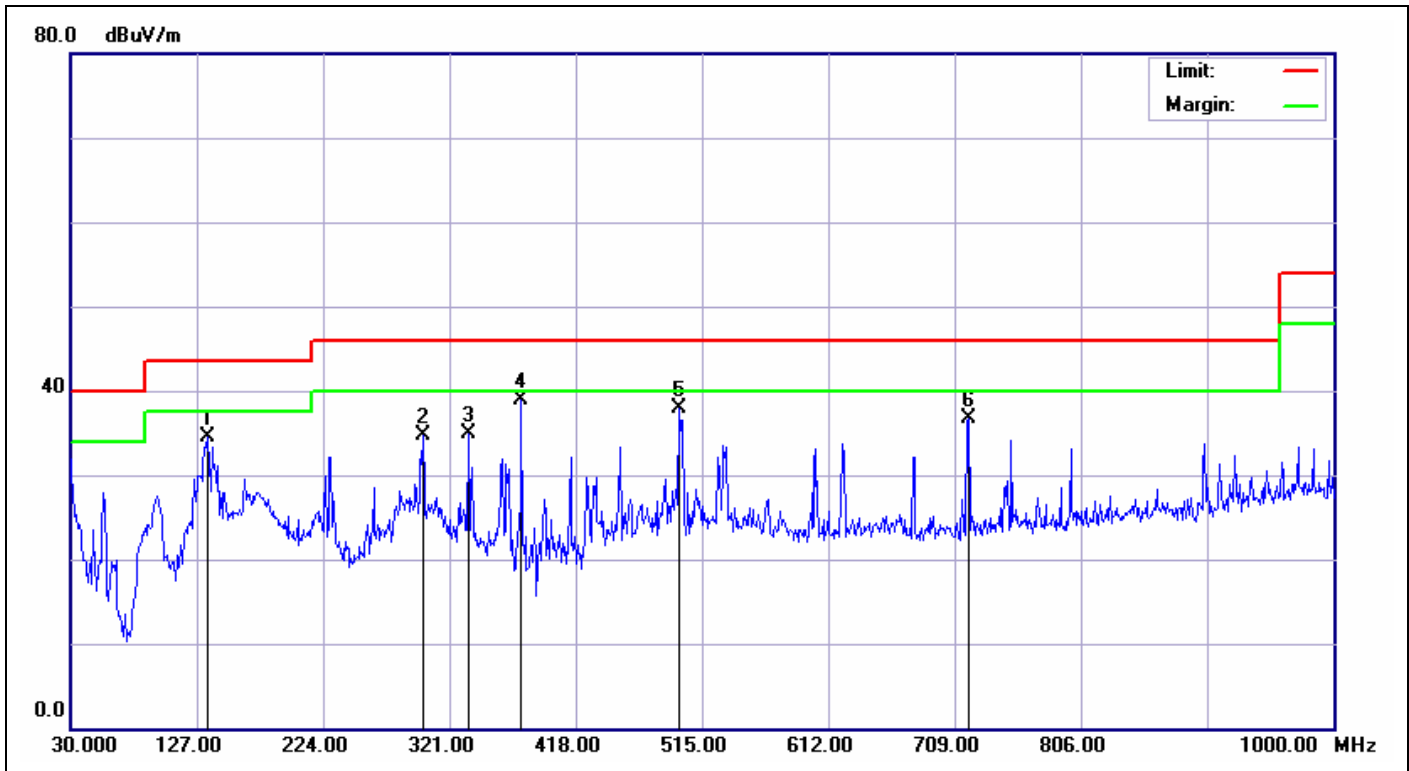
Appendix 2: Test Result of Radiated Emissions and
Radiated Band Edge

(File: 10038189Appendix2)



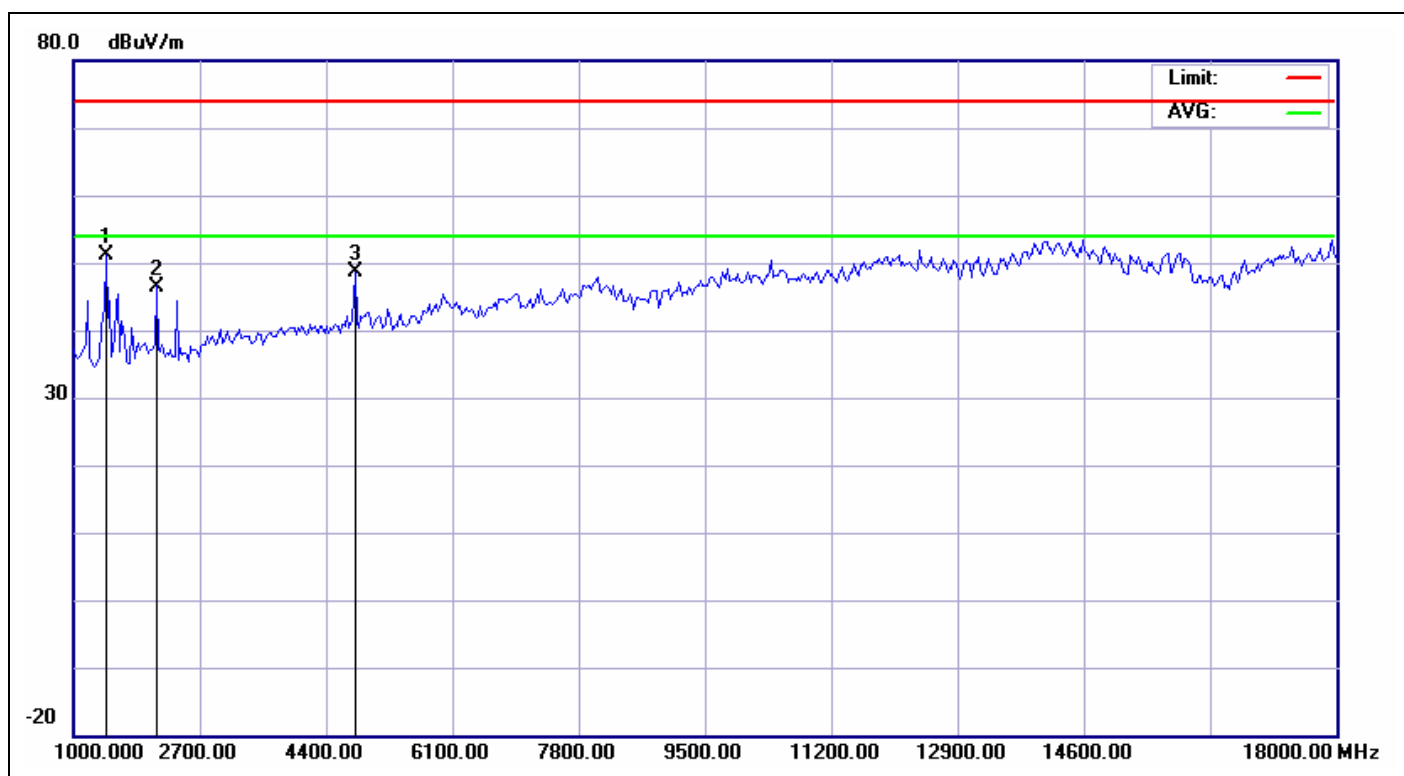
Service No.:	113150235- BT-LE	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 10:19:14
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%)	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	229.8200	-14.87	53.64	38.77	46.00	-7.23	QP	300	230	
2	335.5500	-10.50	49.13	38.63	46.00	-7.37	QP	100	265	
3	376.2900	-9.51	48.68	39.17	46.00	-6.83	QP	200	126	
4	497.5400	-7.66	45.31	37.65	46.00	-8.35	QP	100	147	
5	602.3000	-5.84	40.45	34.61	46.00	-11.39	QP	100	7	
6	719.6700	-4.30	40.95	36.65	46.00	-9.35	QP	100	45	



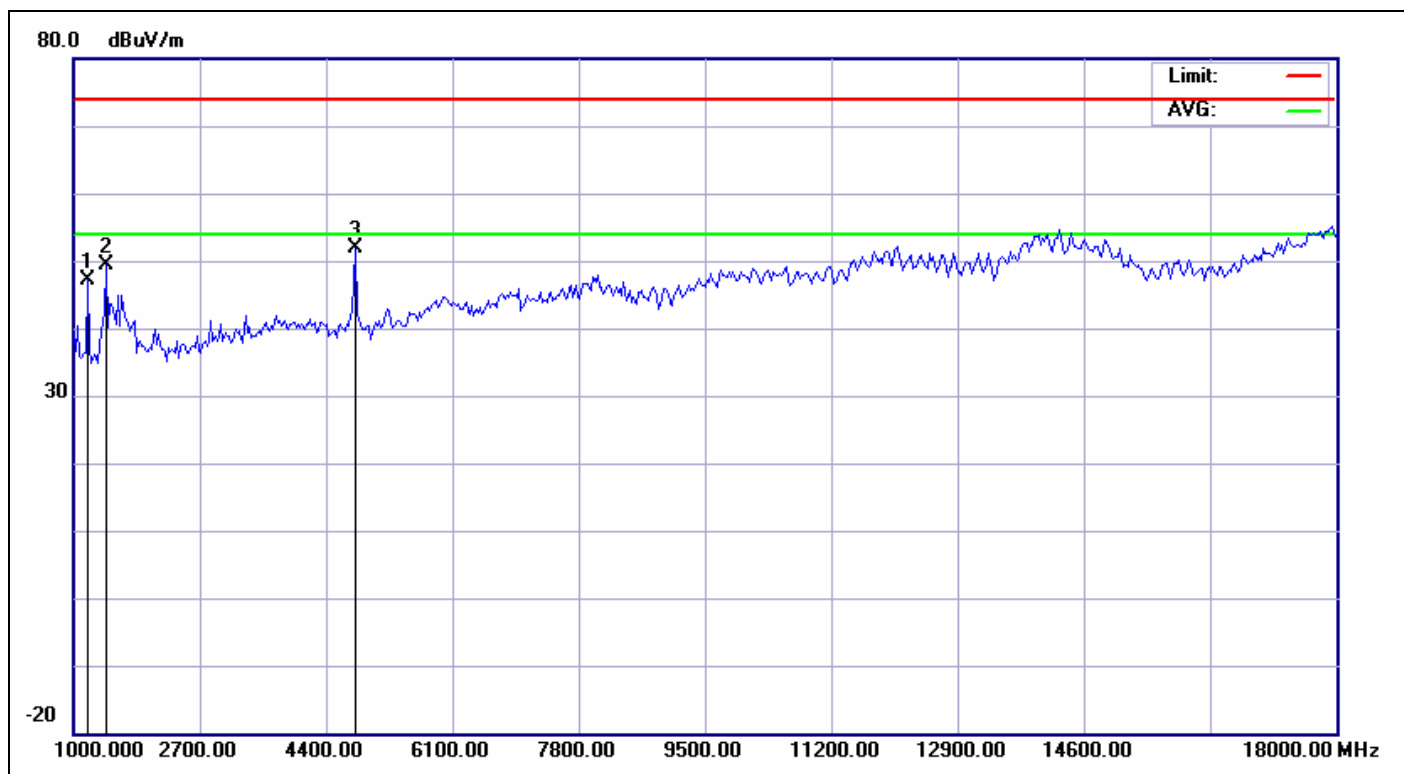
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 10:26:03
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%)	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	134.7600	-13.61	48.18	34.57	43.50	-8.93	QP	100	192	
2	300.6300	-11.27	46.00	34.73	46.00	-11.27	QP	300	271	
3	335.5500	-10.50	45.44	34.94	46.00	-11.06	QP	100	114	
4	376.2900	-9.51	48.41	38.90	46.00	-7.10	QP	100	37	
5	497.5400	-7.66	45.51	37.85	46.00	-8.15	QP	200	257	
6	719.6700	-4.30	40.91	36.61	46.00	-9.39	QP	200	46	



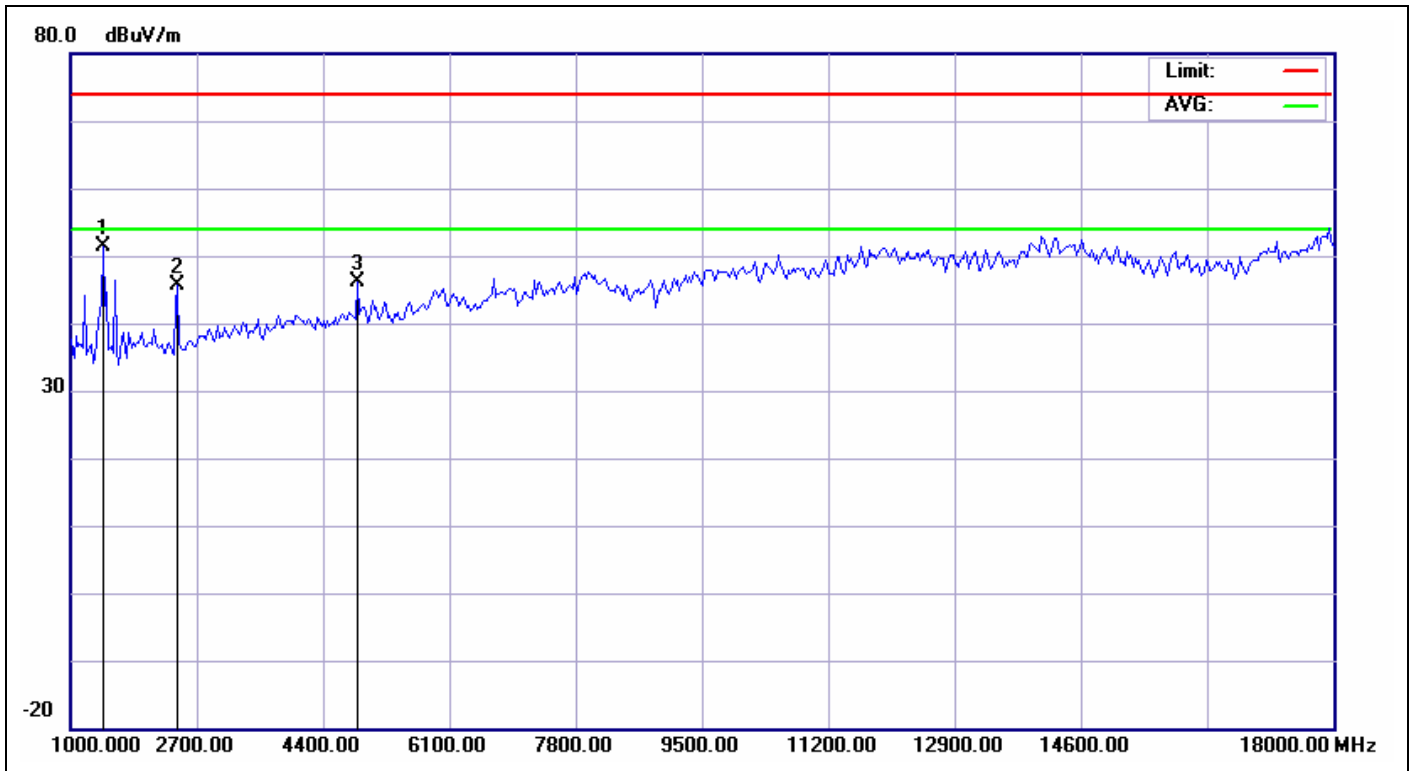
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:42:57
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH0		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1435.897	3.76	47.32	51.08	74.00	-22.92	peak			
2	2116.987	7.60	38.90	46.50	74.00	-27.50	peak			
3	4786.859	13.07	35.45	48.52	74.00	-25.48	peak			



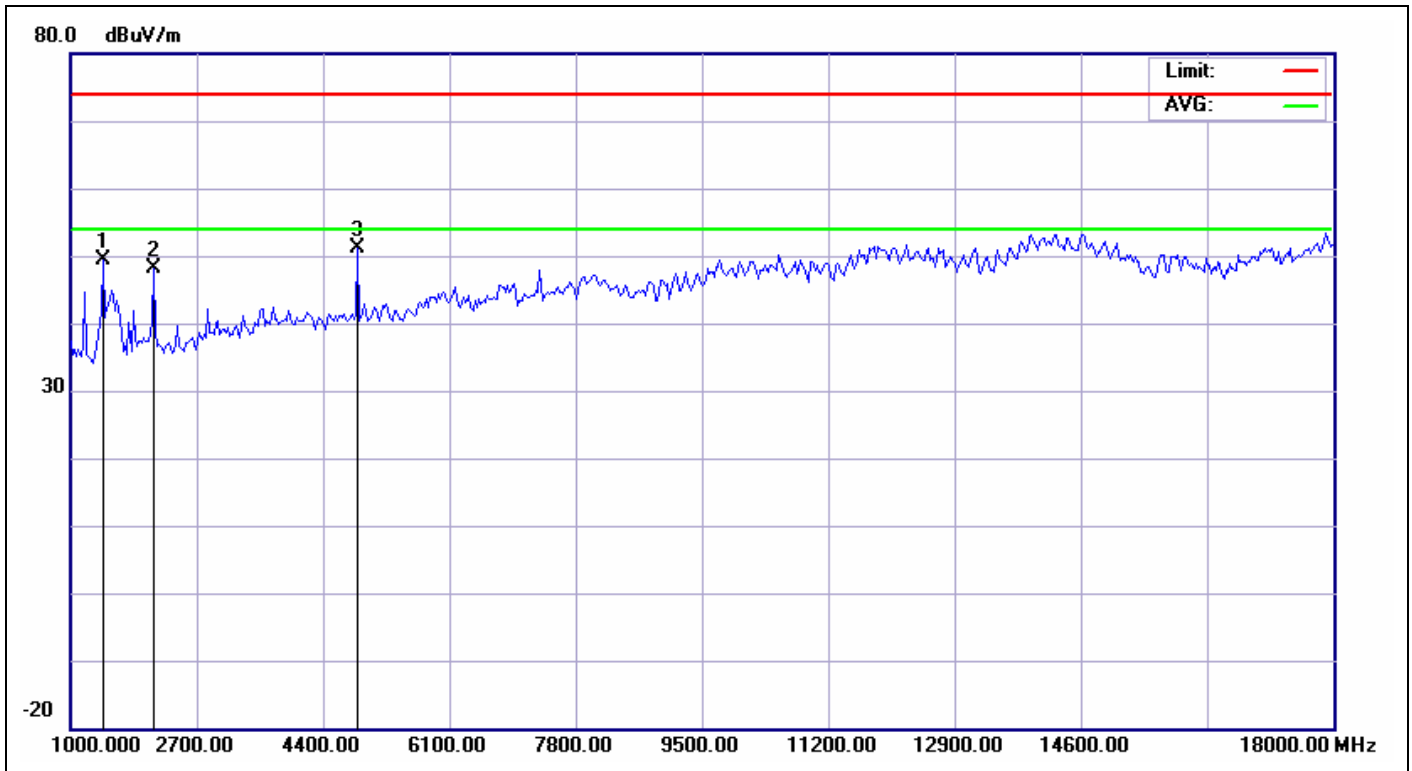
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:45:08
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH0		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1190.705	3.53	43.69	47.22	74.00	-26.78	peak			
2	1435.897	3.76	45.69	49.45	74.00	-24.55	peak			
3	4786.859	13.07	38.87	51.94	74.00	-22.06	peak			



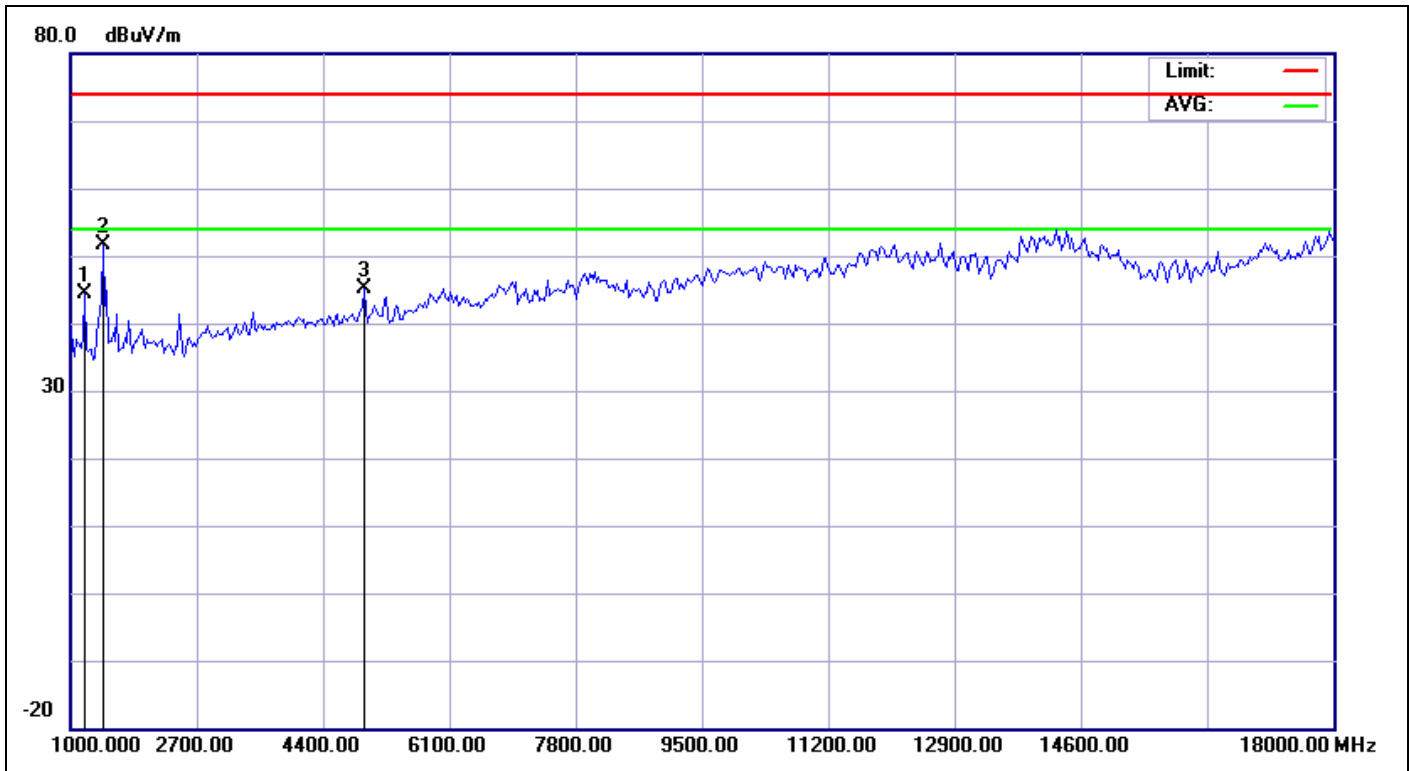
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:51:00
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1435.897	3.76	47.50	51.26	74.00	-22.74	peak			
2	2443.910	8.17	37.56	45.73	74.00	-28.27	peak			
3	4868.590	13.34	32.86	46.20	74.00	-27.80	peak			



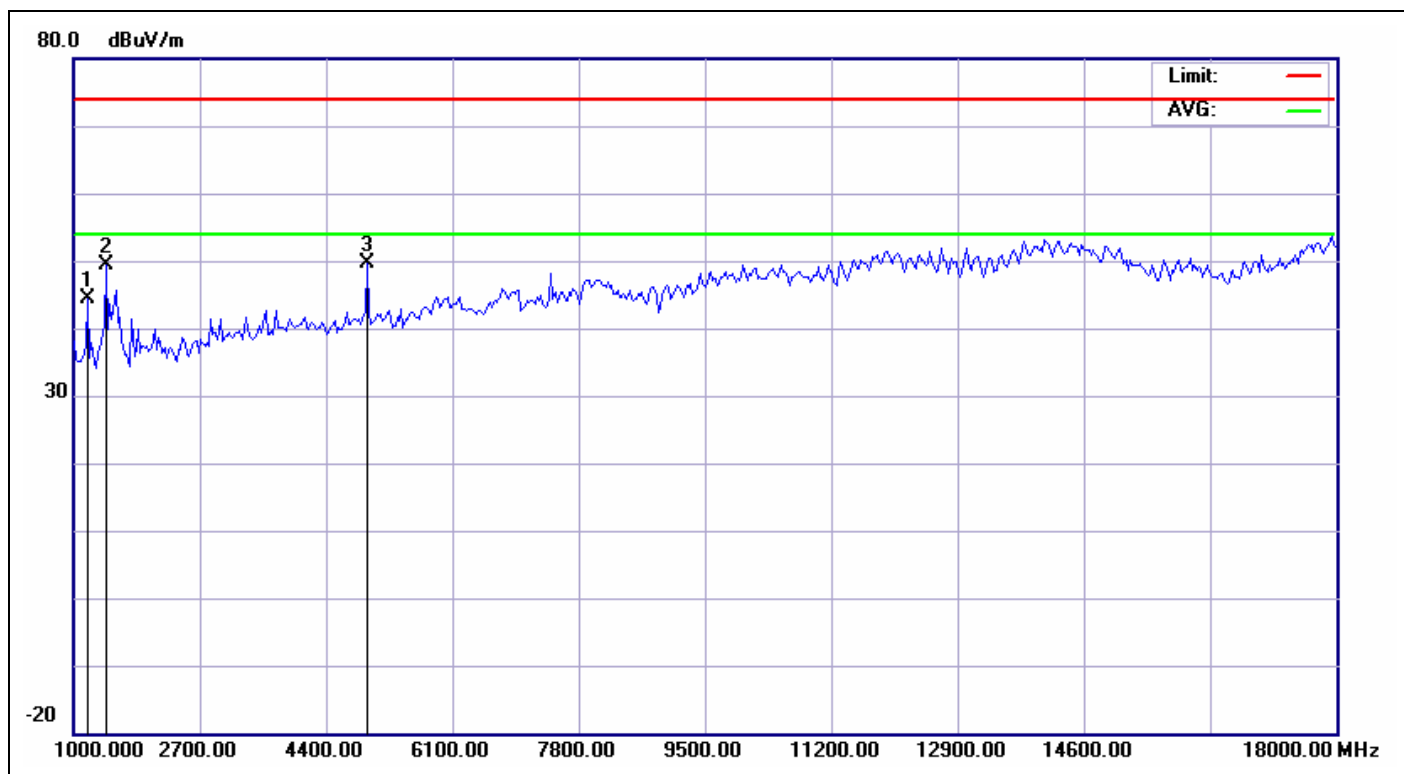
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:47:44
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH20		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1435.897	3.76	45.61	49.37	74.00	-24.63	peak			
2	2116.987	7.60	40.45	48.05	74.00	-25.95	peak			
3	4868.590	13.34	37.89	51.23	74.00	-22.77	peak			



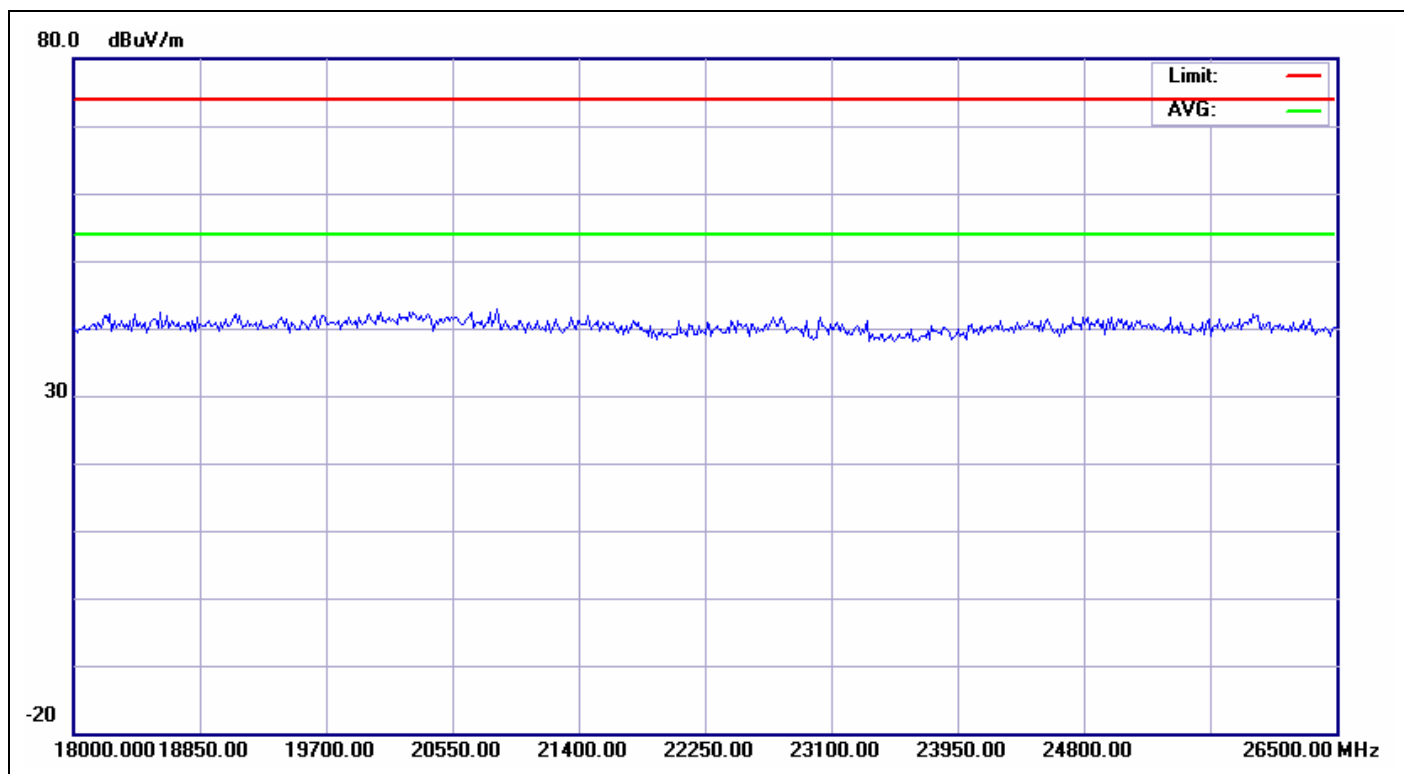
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:53:46
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH39		

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1190.705	3.53	40.94	44.47	74.00	-29.53	peak			
2	1435.897	3.76	47.82	51.58	74.00	-22.42	peak			
3	4950.320	13.60	31.63	45.23	74.00	-28.77	peak			

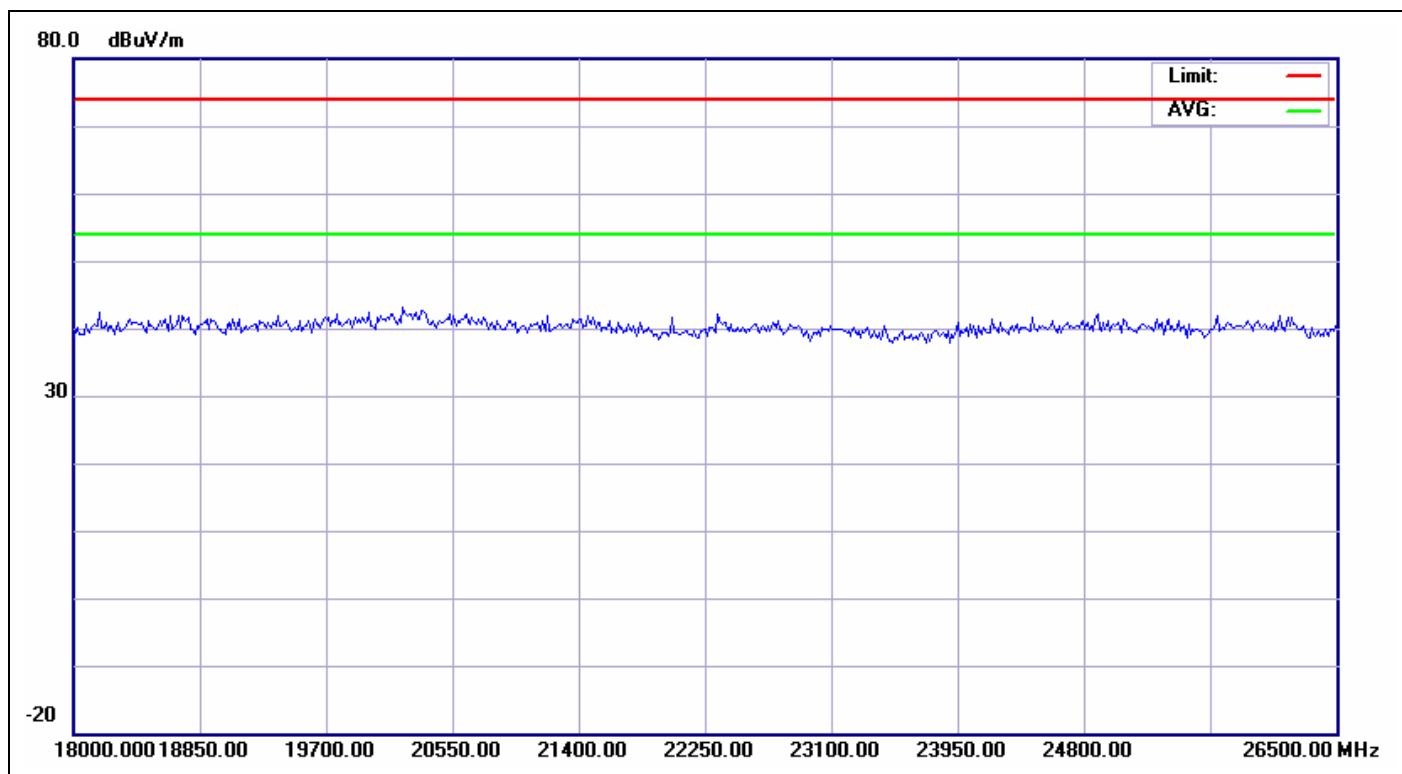


Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 AM 11:55:51
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH39		

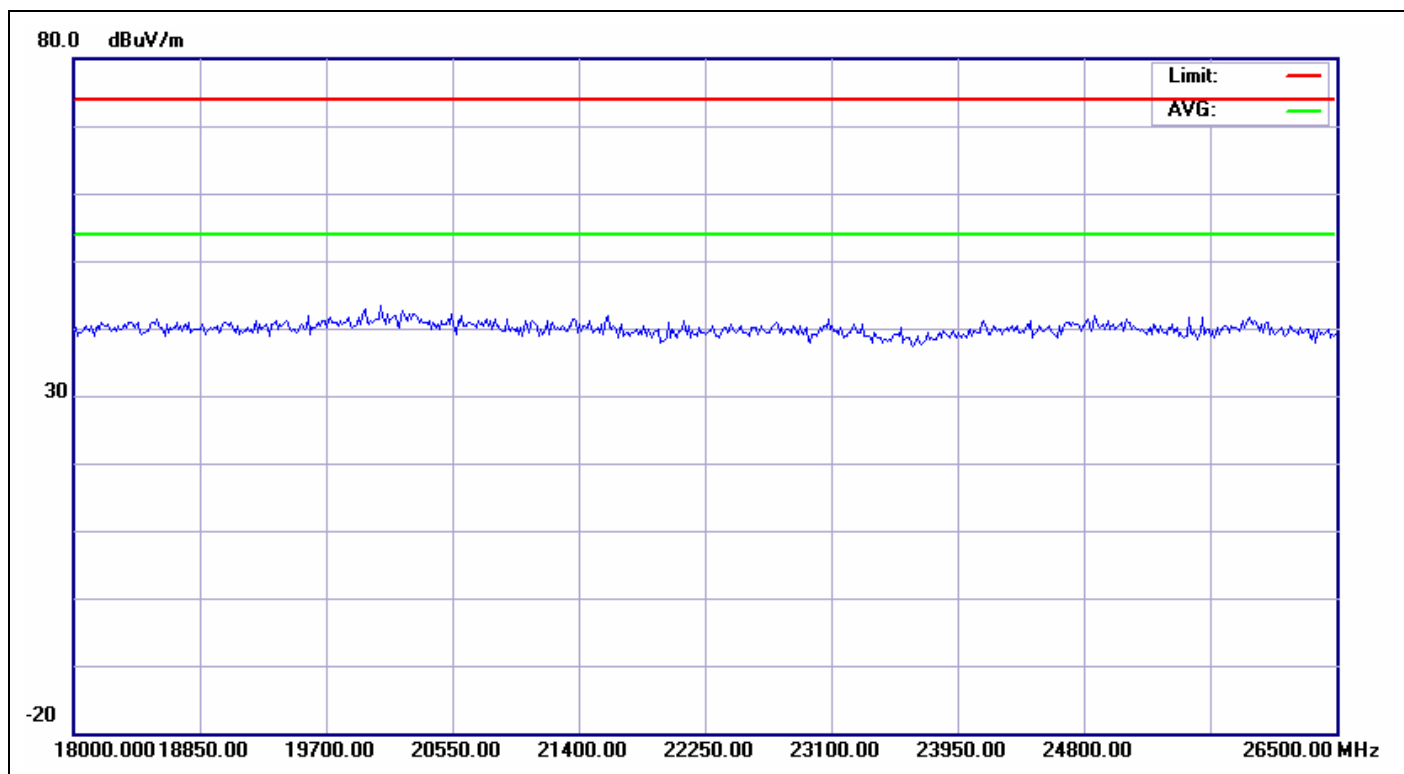
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1190.705	3.53	40.92	44.45	74.00	-29.55	peak			
2	1435.897	3.76	45.73	49.49	74.00	-24.51	peak			
3	4950.321	13.60	36.03	49.63	74.00	-24.37	peak			



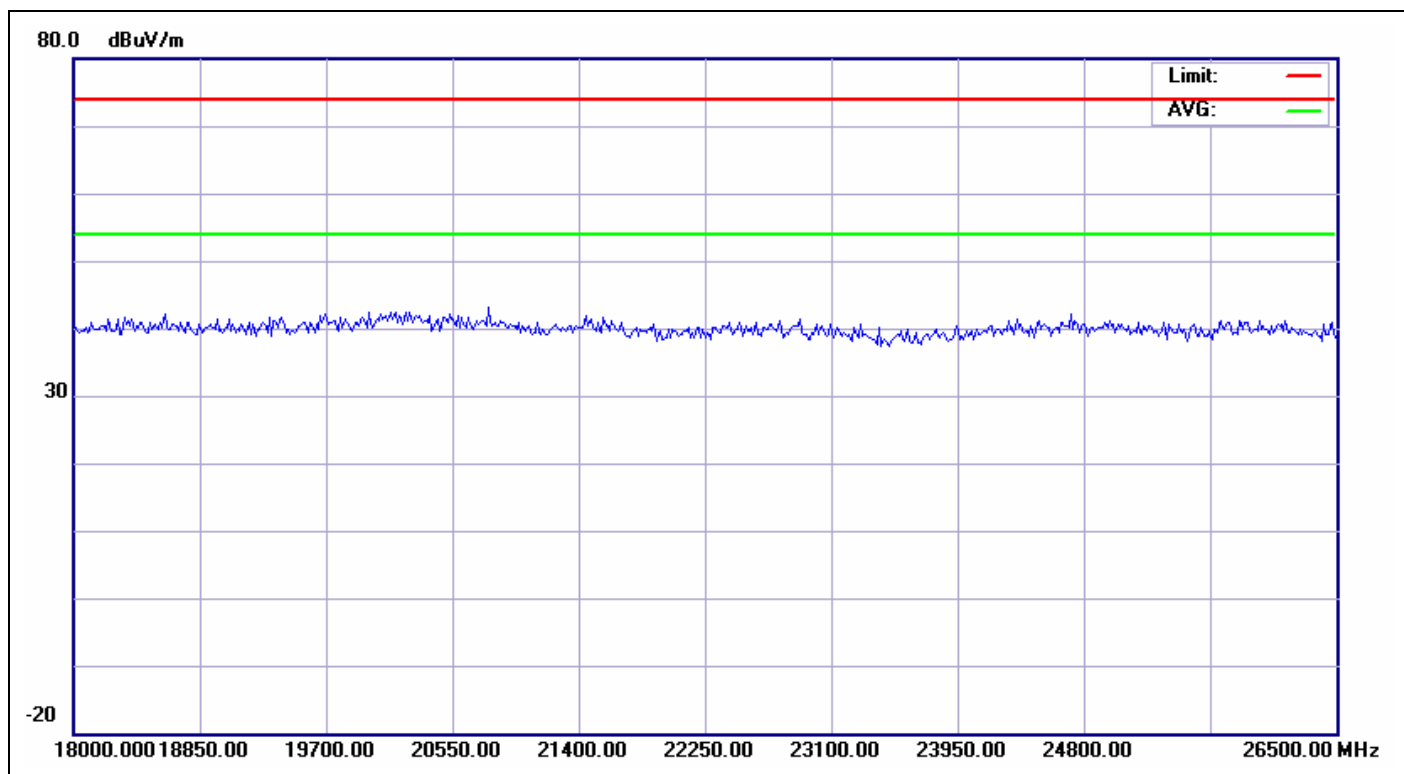
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:16:30
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH0		



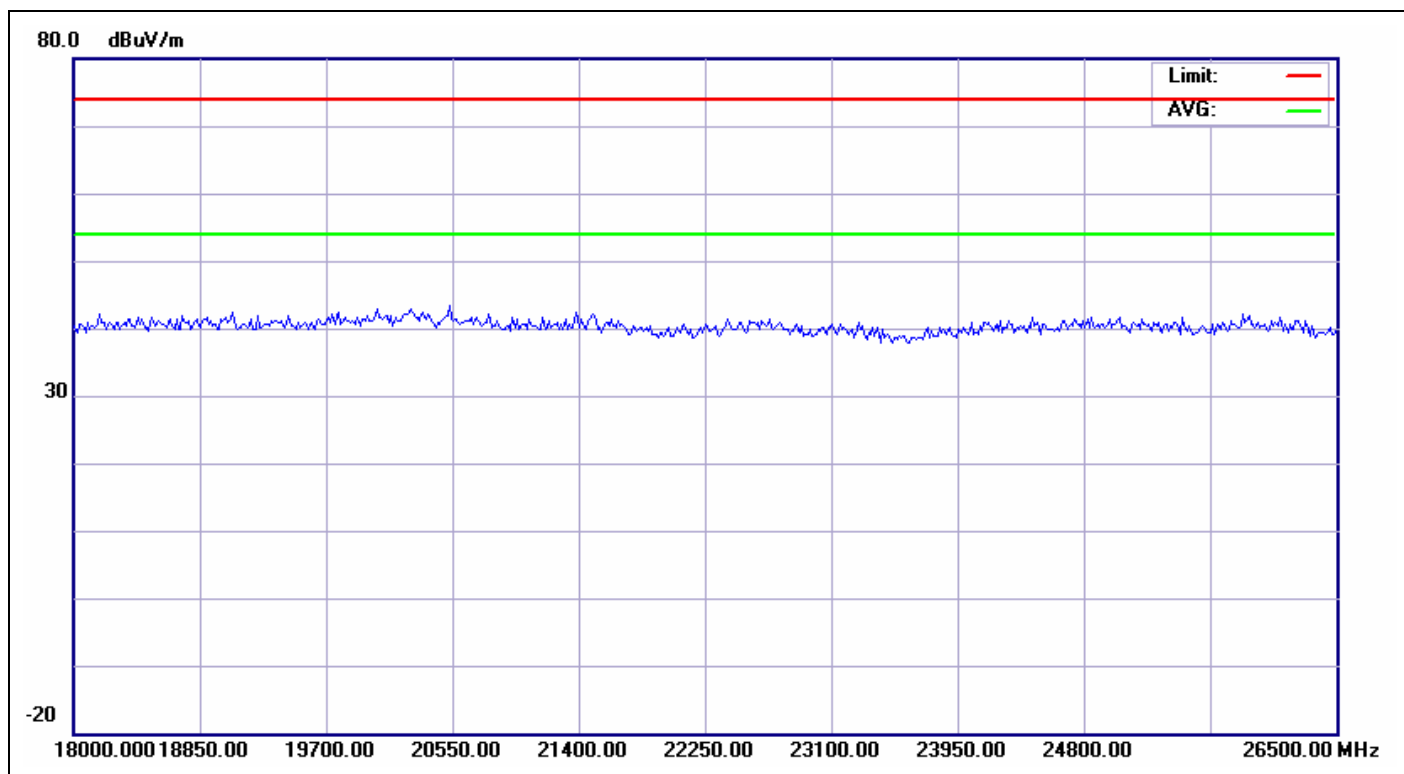
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:17:15
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH0		



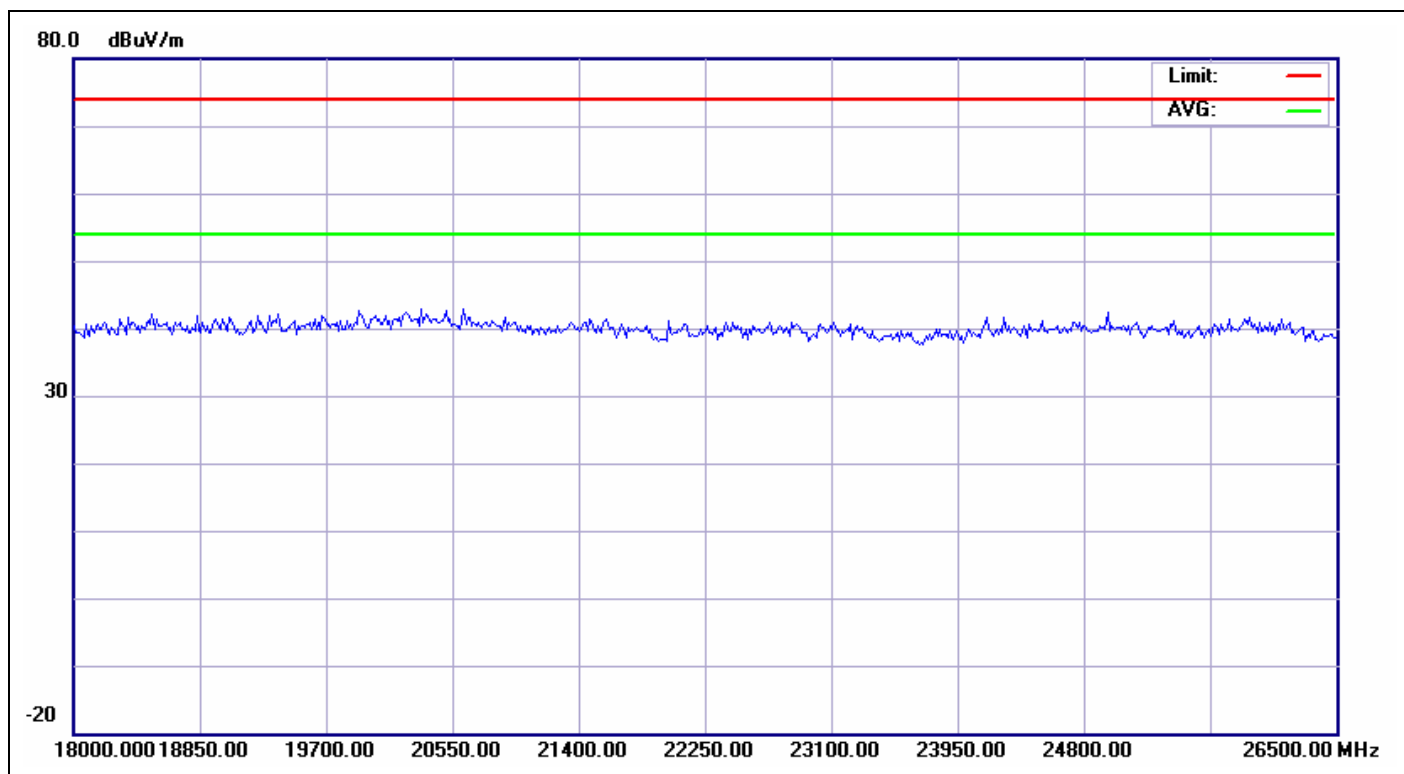
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:18:19
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH20		



Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:17:45
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH20		



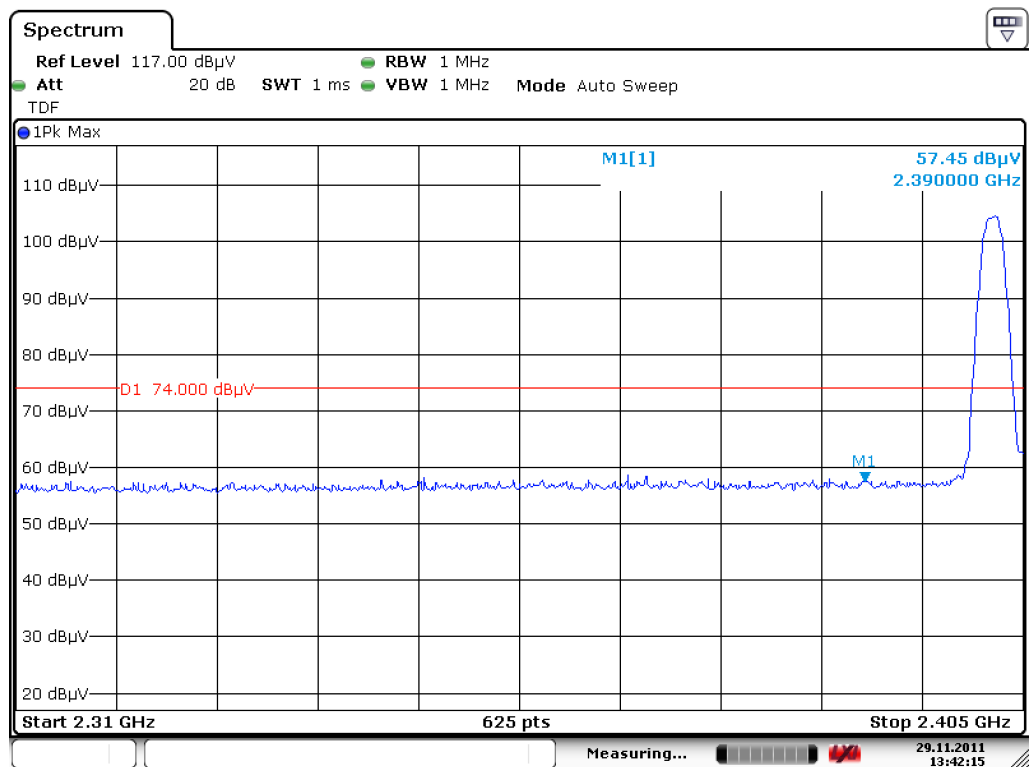
Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:18:53
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH39		



Service No.:	113150235-BT-LE	Test Distance:	3m
Test Standard:	FCC above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2011/11/29 PM 02:19:22
Applicant:	ACCO	Test Rating:	
Product:	Bluetooth Ultimate USB Adapter	Temp.(°C)/Hum.(%):	24(°C)/57%
Model No.:	M01157	Test Engineer:	Howard Lin
Test Mode:			
Remark:	TX CH39		

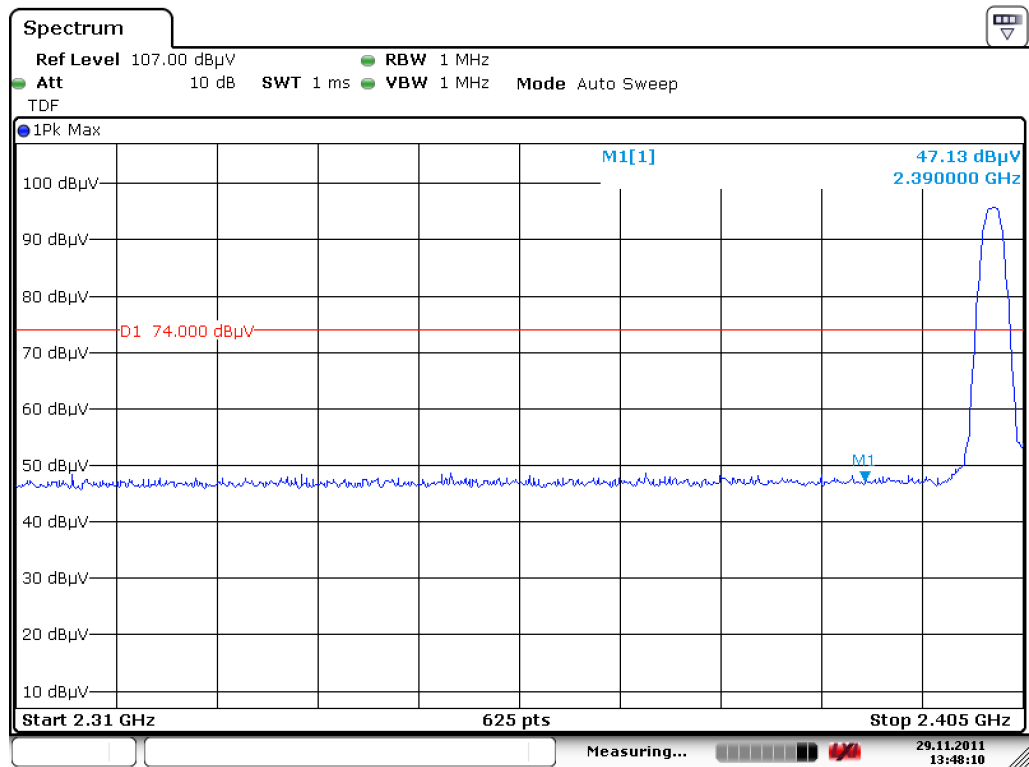
Radiated Band edge (GFSK)

CH0-H-PK



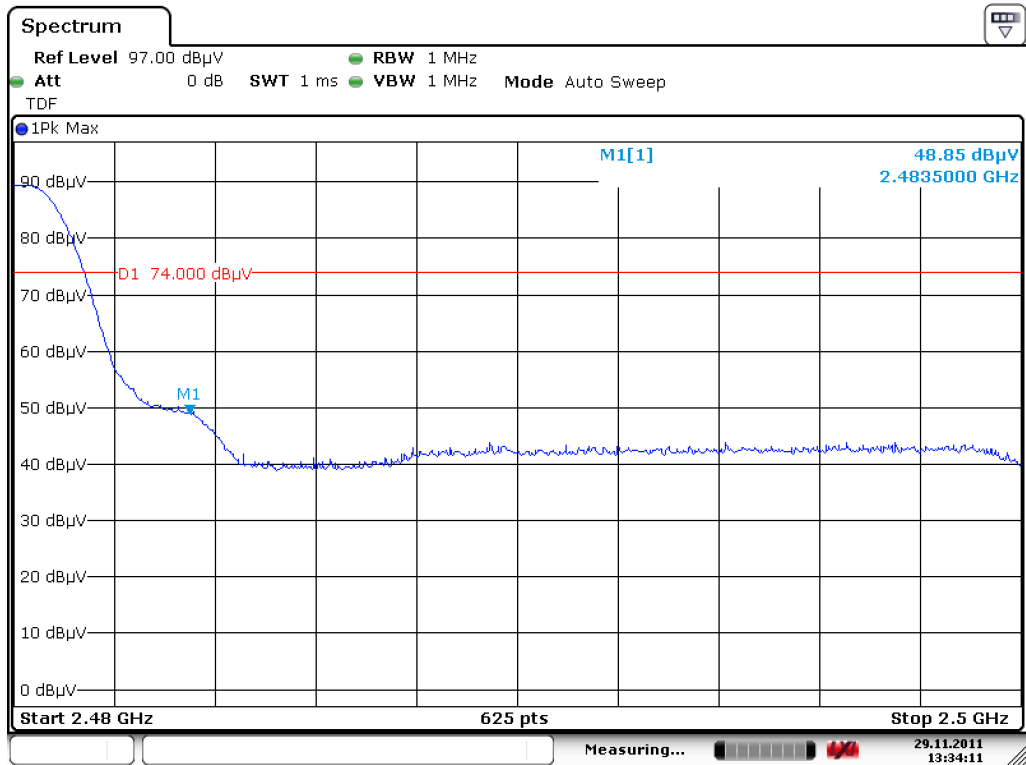
Date: 29.NOV.2011 13:42:15

CH0V-PK



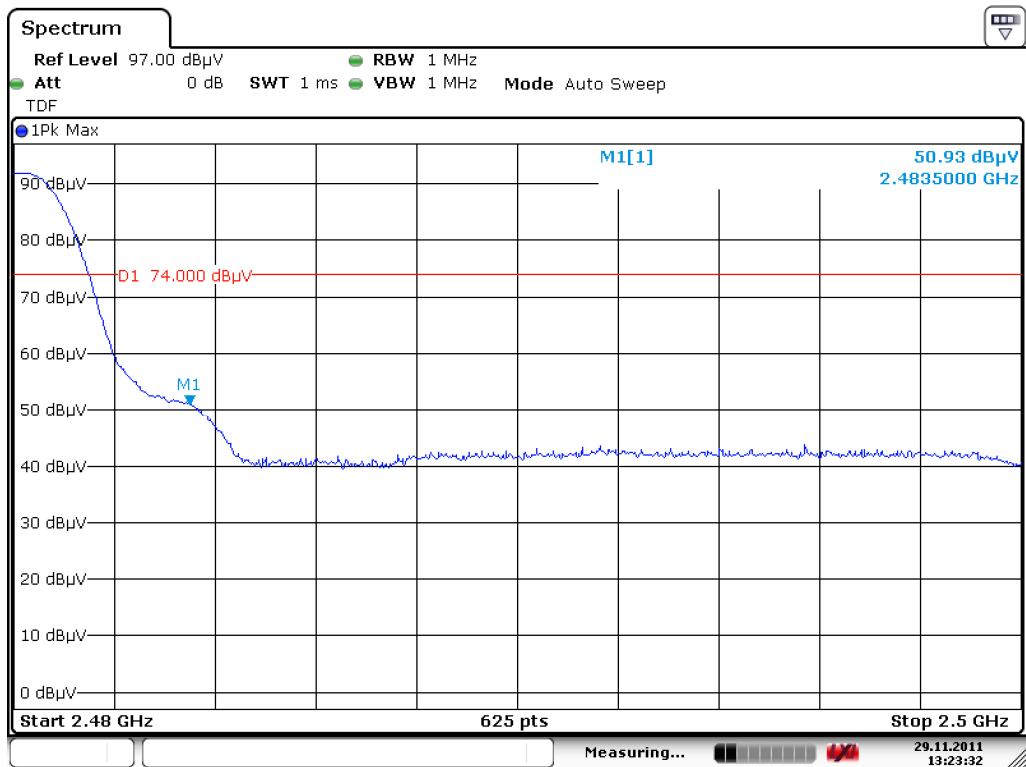
Date: 29.NOV.2011 13:48:09

CH39-H-PK



Date: 29.NOV.2011 13:34:11

CH39-V-PK

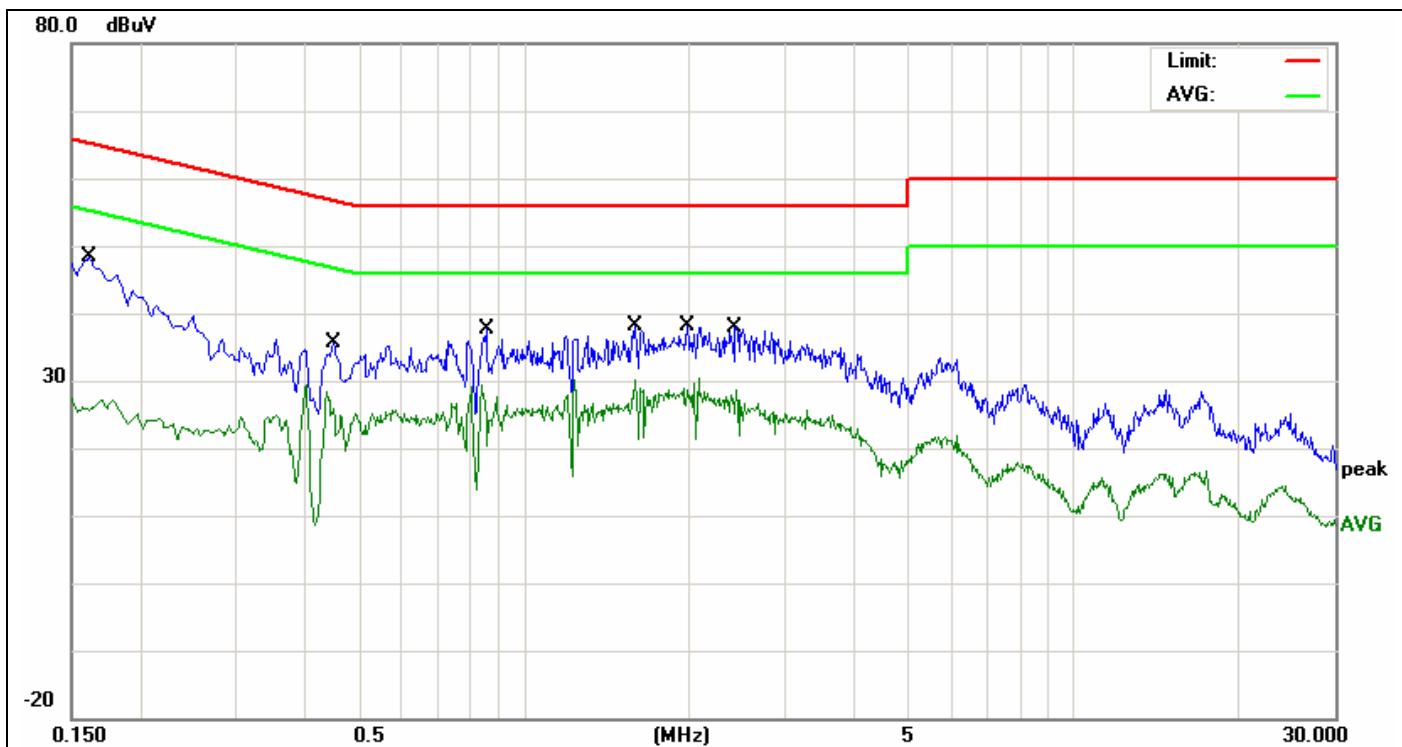


Date: 29.NOV.2011 13:23:32

Test Report No.10038189 001

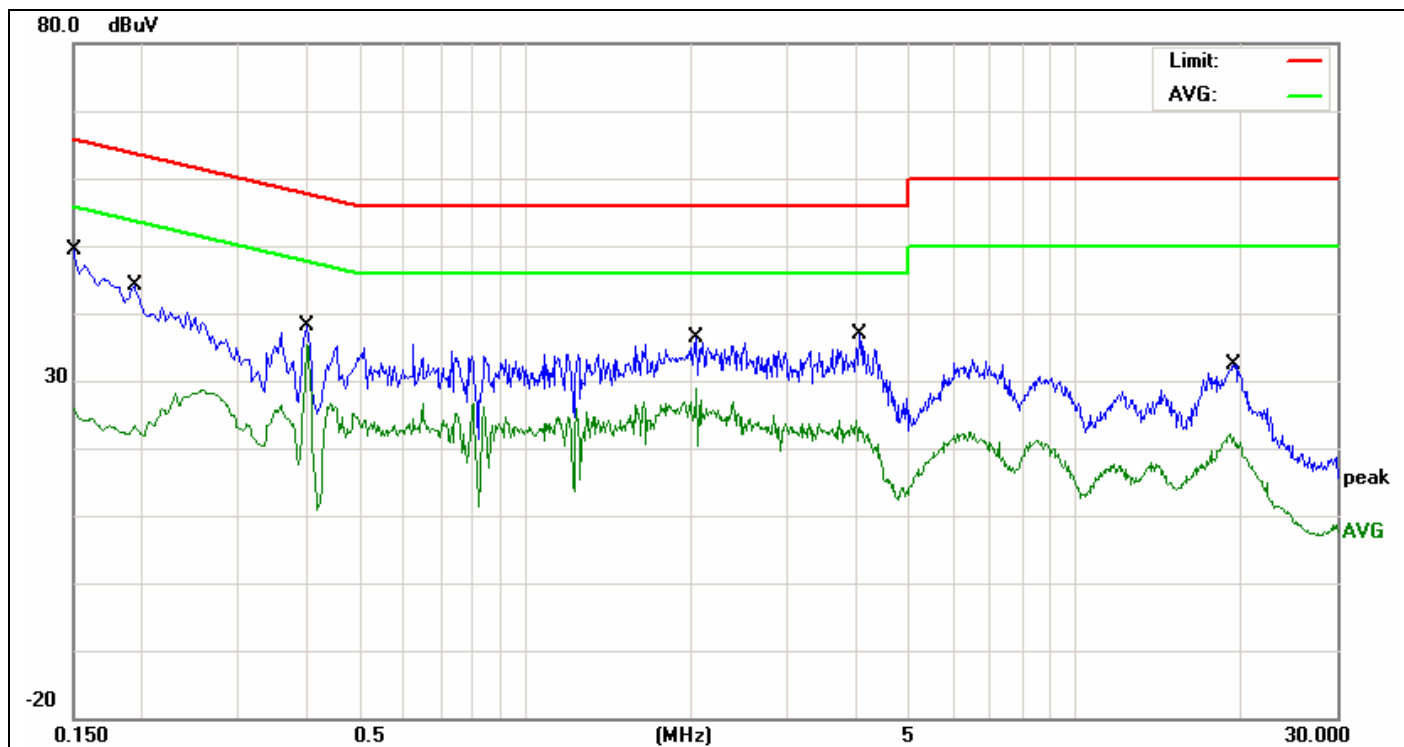
Appendix 3: Test Result of Conducted Emissions

(File: 10038189Appendix3)



Service No.:	113150235-(301489)	Probe:	L1
Test Standard:	CISPR22 Class B Conduction	Test Time:	2011/10/24 PM 04:13:05
Test item:	Conduction Emission	Test Rating:	AC 120V/60Hz
Applicant:	Kensington Computer Products Group, a division of ACCO Brands, LLC	Temp.(°C)/Hum.(%):	26(°C)/60%
Product:	Bluetooth Ultimate USB Adapter	Test Engineer:	Howard Lin
Model No.:	M01157		
Test Mode:			
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1620	9.58	30.10	39.68	65.36	-25.68	QP	
2	0.1620	9.58	16.12	25.70	55.36	-29.66	AVG	
3	0.4500	9.60	24.12	33.72	56.88	-23.16	QP	
4	0.4500	9.60	14.65	24.25	46.88	-22.63	AVG	
5	0.8540	9.61	22.81	32.42	56.00	-23.58	QP	
6	0.8540	9.61	10.52	20.13	46.00	-25.87	AVG	
7	1.5940	9.61	24.10	33.71	56.00	-22.29	QP	
8	1.5940	9.61	17.73	27.34	46.00	-18.66	AVG	
9	1.9900	9.60	24.34	33.94	56.00	-22.06	QP	
10	1.9900	9.60	18.68	28.28	46.00	-17.72	AVG	
11	2.4260	9.62	23.81	33.43	56.00	-22.57	QP	
12	2.4260	9.62	15.32	24.94	46.00	-21.06	AVG	



Service No.:	113150235-(301489)	Probe:	L2
Test Standard:	CISPR22 Class B Conduction	Test Time:	2011/10/24 PM 04:16:04
Test item:	Conduction Emission	Test Rating:	AC 120V/60Hz
Applicant:	Kensington Computer Products Group, a division of ACCO Brands, LLC	Temp.(°C)/Hum.(%):	26(°C)/60%
Product:	Bluetooth Ultimate USB Adapter	Test Engineer:	Howard Lin
Model No.:	M01157		
Test Mode:			
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.65	31.37	41.02	65.99	-24.97	QP	
2	0.1500	9.65	15.98	25.63	55.99	-30.36	AVG	
3	0.1940	9.68	25.52	35.20	63.86	-28.66	QP	
4	0.1940	9.68	12.41	22.09	53.86	-31.77	AVG	
5	0.3980	9.64	26.72	36.36	57.89	-21.53	QP	
6	0.3980	9.64	23.05	32.69	47.89	-15.20	AVG	
7	2.0460	9.62	23.74	33.36	56.00	-22.64	QP	
8	2.0460	9.62	17.78	27.40	46.00	-18.60	AVG	
9	4.0660	9.64	19.32	28.96	56.00	-27.04	QP	
10	4.0660	9.64	10.48	20.12	46.00	-25.88	AVG	
11	19.4580	9.93	15.80	25.73	60.00	-34.27	QP	
12	19.4580	9.93	9.76	19.69	50.00	-30.31	AVG	