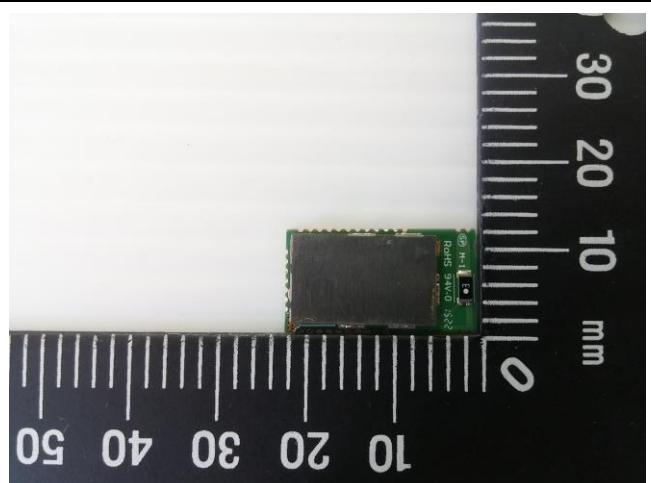


Prüfbericht-Nr.: <i>Test report no.:</i>	CN21UI4W 001	Auftrags-Nr.: <i>Order no.:</i>	238513955	Seite 1 von 28 Page 1 of 28	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-04-21		
Auftraggeber: <i>Client:</i>	Microchip Technology Inc. 2355 West Chandler Blvd. Chandler, Arizona 85224-6199, United States				
Prüfgegenstand: <i>Test item:</i>	Bluetooth module				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	BM78abcdefg,RN4678				
Auftrags-Inhalt: <i>Order content:</i>	Test Report for CE compliance, R&TTE Directive (BLE)				
Prüfgrundlage: <i>Test specification:</i>	EN 300 328 V 1.9.1 EN 62479:2010				
Wareneingangsdatum: <i>Date of sample receipt:</i>	2015-08-23				
Prüfmuster-Nr.: <i>Test sample no.:</i>	A000244783-005				
Prüfzeitraum: <i>Testing period:</i>	2015-09-02 - 2015-09-08				
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site				
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories				
Prüfergebnis*: <i>Test result*:</i>	Pass				
überprüft von: <i>reviewed by:</i>		genehmigt von: <i>authorized by:</i>			
Datum: 2021-05-05 Date:	 Jack Chang	Datum: 2021-05-05 Date:	 Ryan Chen		
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager		
Sonstiges / Other:	This report is mainly added ilac-MRA and TAF logos. The test results remain the same as report no. 10052796 001.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(pass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(fail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend 3 = satisfactory F(fail) = failed a.m. test specification(s)	4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested
* Legend:	1 = very good P(pass) = passed a.m. test specification(s)	2 = good	3 = satisfactory F(fail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor 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.					
This test report only 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 test mark.					

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TEST SUMMARY

4.1.1 RF OUTPUT POWER

RESULT: PASS

4.1.2 MAXIMUM SPECTRAL POWER DENSITY

RESULT: PASS

4.1.3 DUTY CYCLE, Tx-SEQUENCE, Tx-GAP

RESULT: N/A

4.1.4 MEDIUM UTILISATION FACTOR

RESULT: PASS

4.1.5 ADAPTIVITY

RESULT: N/A

4.1.6 OCCUPIED CHANNEL BANDWIDTH

RESULT: PASS

4.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN

RESULT: PASS

4.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: PASS

4.2.1 RECEIVER RADIATED SPURIOUS EMISSIONS

RESULT: PASS

4.2.2 RECEIVER BLOCKING

RESULT: N/A

5.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN21UI4W 001	Original Release	2021-05-05

1 General Remarks

1.1 Complementary Materials

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

Appendix P: IUT Photos

Appendix D: Test Result of Radiated Emissions

Table 1: Applied Standard and Test Levels

Radio
EN 300 328 V 1.9.1

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2 Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

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

2.2 Test Facility

Taipei Testing Laboratories

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

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2.3 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Last Calibration	Next Calibration
EMI Test Receiver	R&S	ESR7	101062	31-Aug-14	15-Sep-15
Bilog Antenna	TESEQ	CBL6111D	29802	4-Jul-14	3-Jul-16
Spectrum Analyzer	R&S	FSV 40	100921	17-Dec-14	16-Dec-15
Spectrum Analyzer	Agilent	N9010A	MY53470241	1-Apr-15	30-Mar-16
Horn Antenna	ETS-Lindgren	3117	138160	12-Jan-15	11-Jan-17
Horn Antenna (18GHz~40GHz)	COM-POWER	AH840	101031	30-Oct-13	29-Oct-15
Preamplifier (30MHz -1GHz)	HP	8447F	2805A03335	24-Dec-14	24-Dec-15
Preamplifier (18 GHz -40 GHz)	COM-POWER	PAM-840	461257	26-Aug-14	26-Aug-16
Pre-Amplifier (1GHz~18GHz)	EM Electronics	EM30180	60558	4-Nov-14	3-Nov-15
Loop Antenna	Schwarzbeck	FMZB 1513	1513-076	22-Oct-14	21-Oct-15
EMI Test Receiver	R&S	ESCI7	100797	28-Dec-14	27-Dec-15
Spectrum Analyzer	R&S	FSL3	101943	7-Sep-15	7-Sep-16
Temp. & Humid. Chamber	Giant Force	GCT-099-40-S	MAF0103-007	13-Jul-15	12-Jul-16
LISN (1 phase)	R&S	ENV216	101243	1-Jun-15	31-May-16
LISN	R&S	ENV216	101262	16-Jun-15	15-Jun-16
Power sensor	Agilent	U2021XA	MY53480013	11-Mar-15	9-Mar-16
Signal Generator	R&S	SMU200	104260	6-Sep-15	5-Sep-16
EXG-B RF Analog Signal Generator	Agilent	N5171B	MY53050377	15-Mar-15	13-Mar-16
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050524	18-Mar-15	16-Mar-16

2.4 Measurement Uncertainty

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±5 %
RF power, conducted	± 1.5 dB
RF power density, conducted	± 3 dB
unwanted emissions, conducted	± 3 dB
all emissions, radiated	± 6 dB
Temperature	± 1 °C
Humidity	± 5 %
DC and low frequency voltages	±3 %
Time	± 5 %
Duty Cycle	± 5 %

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth module. It contains a Bluetooth 4.2 BLE/BR/EDR compatible module enabling the user to communicate data through a Wireless interface. For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details

Table 4: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Bluetooth module
Operating Frequency	2402~2480 MHz
Channel Spacing	2 MHz
Channel number	40
Extreme Temperature Range	-20~70 °C
Operation Voltage	3.3Vdc
Modulation	GFSK
Antenna gain	1.63 dBi

3.3 Independent Operation Modes

Testing was performed at the lowest operating frequency (2412MHz), at the operating frequency in the middle of the specified frequency band (2440MHz) and at the highest operating frequency (2472MHz).

The basic operation modes are:

- A. EUT transmits (TX mode), with full power, at lowest channel (2412MHz), a continuous modulated signal streaming with 100% duty cycle.
- B. EUT transmits (TX mode), with full power, at lowest channel (2440MHz), a continuous modulated signal streaming with 100% duty cycle.
- C. EUT transmits (TX mode), with full power, at highest channel (2472MHz), a continuous modulated signal streaming with 100% duty cycle.
- D. EUT receives (RX mode), at lowest channel (2412MHz), continuously.
- E. EUT receives (RX mode), at highest channel (2472MHz), continuously.
- F. Transmitter is in stand-by.
- G. EUT transmits on pseudo-random sequence on all channels (hopping mode).

3.4 Noise Suppressing Parts

Nothing mentioned explicitly.

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Software used for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed in section 3.3 as appropriate, the connection laptop was removed when performing the testing.

Test operation please refer to test setup in chapter 6.

4.3 Special Accessories and Auxiliary Equipment

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

Kind of Equipment	Manufacturer	S/N
Laptop	HP	CNF0339QBM

5 Test Results RADIO

5.1 Transmitter Parameters

5.1.1 RF output power

RESULT: PASS

Date of testing: 2-Sep-2015

Atmospheric pressure: 100-103 kPa

Test requirement: EN 300 328 V 1.8.1, clause 4.3.1.1

Test procedure: EN 300 328 V 1.8.1, clause 5.3.2

Test modes applied: A, B, C

Note:

The output power of this device is below 10 dBm.. Adaptivity and Tx-Gap are not required. Therefore the timing information of a Burst is not required and the testing can be done with the EUT set to a continuous signal, with a non-sampling power sensor.

The output power (conducted) was measured at the antenna port with a Power Meter. The final measurement takes into account the loss generated by all the involved cables.

EIRP was then determined at normal and extreme conditions at the above mentioned data rate.

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Table 5: Equivalent Isotropically Radiated Power

Antenna Assembly Gain:		1.63		
Cable Loss=		1.6		
TEST CONDITIONS		TRANSMITTER POWER (dBm)		
		-20 °C	25 °C	70 °C
Frequency	3.3 V			
	Read Power	2.10	-1.85	-5.47
2402	e.i.r.p.	5.33	1.38	-2.24
	Read Power	2.31	-1.61	-5.44
2440	e.i.r.p.	5.54	1.62	-2.21
	Read Power	2.20	-1.99	-5.73
2480	e.i.r.p.	5.43	1.24	-2.50
	Limit = 20 dBm			

AVG Conducted Power

25	3.3 V	Max Power	-0.01	(dBm)
----	-------	-----------	-------	-------

Prüfbericht - Nr.: CN21UI4W 001
*Test Report No.*Seite 15 von 28
Page 15 of 28**5.1.2 Maximum Spectral Power Density****RESULT:****PASS**

Date of testing: 2-Sep-2015

Ambient temperature: 22-26 °C

Relative humidity: 50-65 %

Atmospheric pressure: 100-103 kPa

Test requirement: EN 300 328 V 1.8.1, clause 4.3.2.2

Test procedure: EN 300 328 V 1.8.1, clause 5.3.3

Test mode applied: A, B, C

Table 6: Maximum Spectral Power Density

TEST CONDITIONS	25 °C		3.3 V
	Frequency (MHz)	Reading (dBm/MHz)	Factor (dB)
2402	-1.91	3.23	1.32
2440	-1.67	3.23	1.56
2480	-2.05	3.23	1.18
Limit = 10 dBm/MHz			

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5.1.3 Duty Cycle, Tx-sequence, Tx-gap

RESULT:

N/A

Test requirement: EN 300 328 V 1.8.1, clause 4.3.1.2

Note:

The output power of this device is below 10 dBm.. Adaptivity and Tx-Gap are not required.

Prüfbericht - Nr.: CN21UI4W 001
*Test Report No.*Seite 17 von 28
Page 17 of 28**5.1.4 Medium Utilisation Factor****RESULT:** PASS

Test requirement: EN 300 328 V1.8.1, clause 4.3.1.5

The output power is less than 10 dBm. Therefore, assessment of the Medium Utilisation Factor is not required. This device may transmit continuously.

5.1.5 Adaptivity**RESULT:** N/A

Requirement: EN 300 328 V1.8.1, clause 4.3.1.6

The output power is less than 10 dBm. Therefore, an implementation of an adaptivity through LBT or DAA implementation is not required. May use the full available band.

Prüfbericht - Nr.: CN21UI4W 001
*Test Report No.*Seite 18 von 28
Page 18 of 28**5.1.6 Occupied Channel Bandwidth****RESULT:****PASS**

Ambient temperature : 22-26°C
Relative humidity : 50-65%
Atmospheric pressure : 100-103 kPa

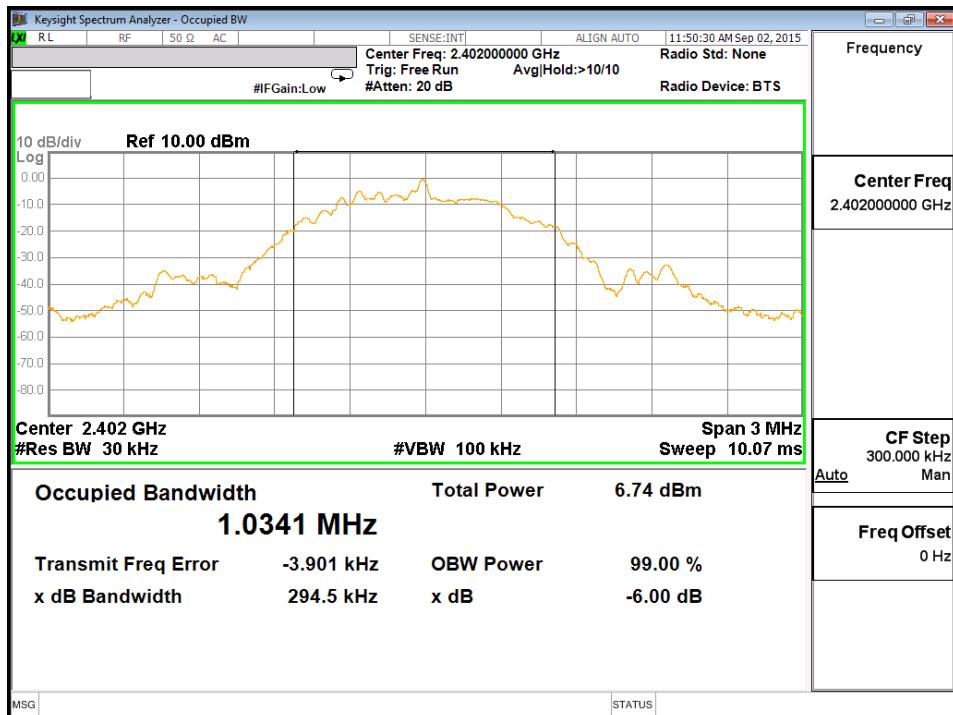
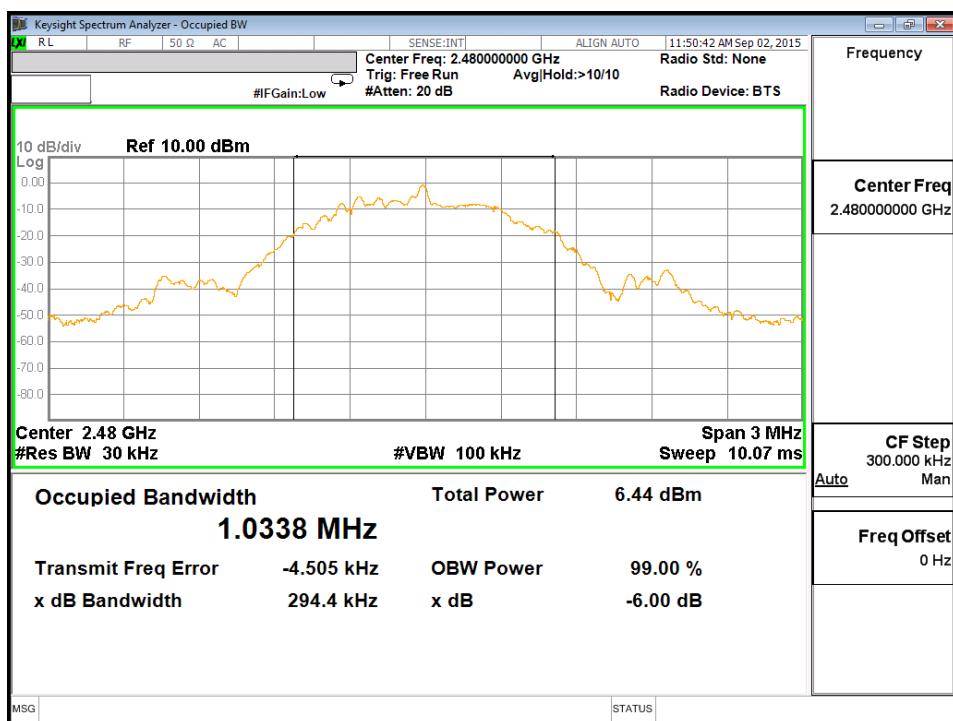
Test requirement: EN 300 328 V 1.8.1, clause 4.3.1.7
Test procedure: EN 300 328 V 1.8.1, clause 5.3.8

Test modes applied: A, C

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

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)	Limit
Low Channel	2402	1.0341	4 MHz (Ch2402)
High Channel	2480	1.0338	7 MHz (Ch2480)

Note: For the channels in the middle range of the band the limit is 20 MHz.

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Figure 1: 99% Bandwidth Low Channel GFSK

Figure 2: 99% Bandwidth High Channel GFSK


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*Test Report No.*Seite 20 von 28
Page 20 of 28**5.1.7 Transmitter unwanted emissions in the OOB domain****RESULT:****PASS**

Test requirement: EN 300 328 V 1.8.1, clause 4.3.1.8

Test procedure: EN 300 328 V 1.8.1, clause 5.3.9

Frequency range: 30MHz - 12.75GHz

Measurement distance: 3m

Kind of test site: Semi Anechoic Chamber

Test mode applied: A, C, F

Note:

Outside the 2400 – 2483.5 MHz band all unwanted emissions are below -30 dBm

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Temperature Low:	-20	°C
Temperature Normal:	25	°C
Temperature High:	70	°C

Antenna Assembly Gain: (dBi)	1.63
Cable Loss: (dB)	1.6

LE

Ton of Duty Cycle:	0.433
Tall of Duty Cycle:	0.622
Duty factor: (dB)	1.57

Temperature Low

Freq.(MHz)	Read(dBm)	e.i.r.p.(dBm)	Limit(dBm)
2398.46	-59.66	-54.86	-20
2398.48	-59.29	-54.49	-20
2399.48	-49.31	-44.51	-10
2399.5	-48.89	-44.09	-10
2484	-62.84	-58.04	-10
2484.02	-63.17	-58.37	-10
2485.02	-68.46	-63.66	-20
2485.04	-68.61	-63.81	-20

Temperature Normal

Freq.(MHz)	Read(dBm)	e.i.r.p.(dBm)	Limit(dBm)
2398.46	-64.57	-59.77	-20
2398.48	-64.17	-59.37	-20
2399.48	-54.24	-49.44	-10
2399.5	-53.72	-48.92	-10
2484	-68.96	-64.16	-10
2484.02	-69.34	-64.54	-10
2485.02	-73.76	-68.96	-20
2485.04	-73.83	-69.03	-20

Temperature High

Freq.(MHz)	Read(dBm)	e.i.r.p.(dBm)	Limit(dBm)
2398.46	-68.40	-63.60	-20
2398.48	-68.18	-63.38	-20
2399.48	-59.21	-54.41	-10
2399.5	-58.66	-53.86	-10
2484	-71.13	-66.33	-10
2484.02	-71.28	-66.48	-10
2485.02	-74.77	-69.97	-20
2485.04	-74.86	-70.06	-20

Prüfbericht - Nr.: CN21UI4W 001
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*Page 22 of 28***5.1.8 Transmitter unwanted emissions in the spurious domain****RESULT:** PASS

Test requirement:	EN 300 328 V 1.8.1, clause 4.3.1.9
Test procedure:	EN 300 328 V 1.8.1, clause 5.3.10
Frequency range:	30MHz - 12.75GHz
Measurement distance:	3m
Kind of test site:	Semi Anechoic Chamber
Test mode applied:	A, C, F

Please refer to Appendix D: Test result of Radiated Emissions

5.2 Receiver Parameters

5.2.1 Receiver Radiated Spurious Emissions

RESULT: PASS

Test requirement:	EN 300 328 V 1.8.1, clause 4.3.1.10
Test procedure:	EN 300 328 V 1.8.1, clause 5.3.11
Frequency range:	30MHz - 12.75GHz
Measurement distance:	3m
Kind of test site:	Semi Anechoic Chamber
Test mode applied:	D, E

Please refer to Appendix D: Test result of Radiated Emissions

5.2.2 Receiver Blocking

RESULT: N/A

Test requirement:	EN 300 328 V 1.8.1, clause 4.3.1.11
Test procedure:	EN 300 328 V 1.8.1, clause 5.3.7

The output power is less than 10 dBm. Therefore, adaptivity is not required for this device and this test item does not apply.

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6 Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT: **Passed**

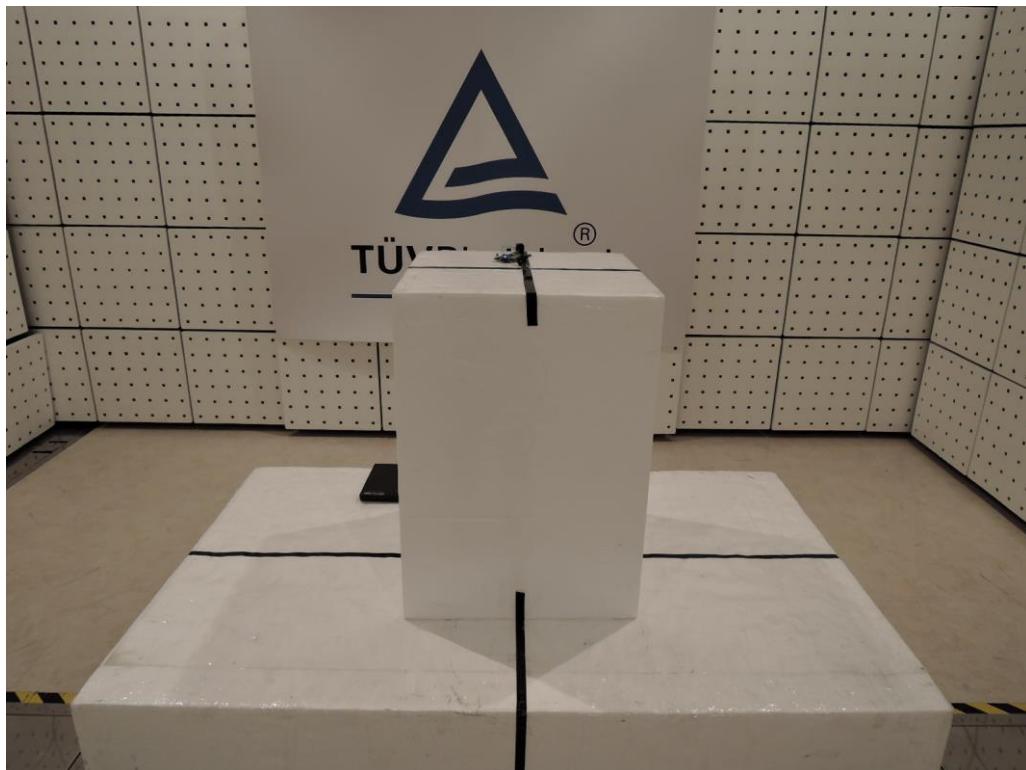
Test standard : EN 62479:2010, A.3.

Maximum available Power:

Max Power (dBm)	Power (mW)	Head and Body Power Limit in (mW)	Pass/Fail
-0.01	1.00	20	PASS

7 Photographs of the Test Setup

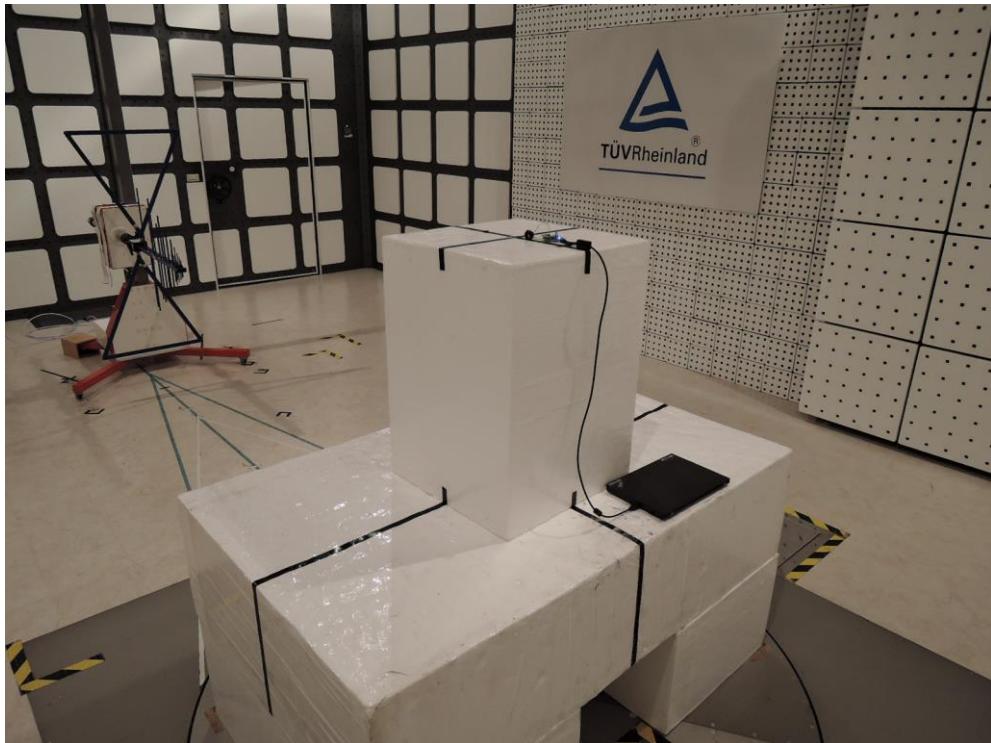
Photograph 1: Set-up for Radiated Emission (front)



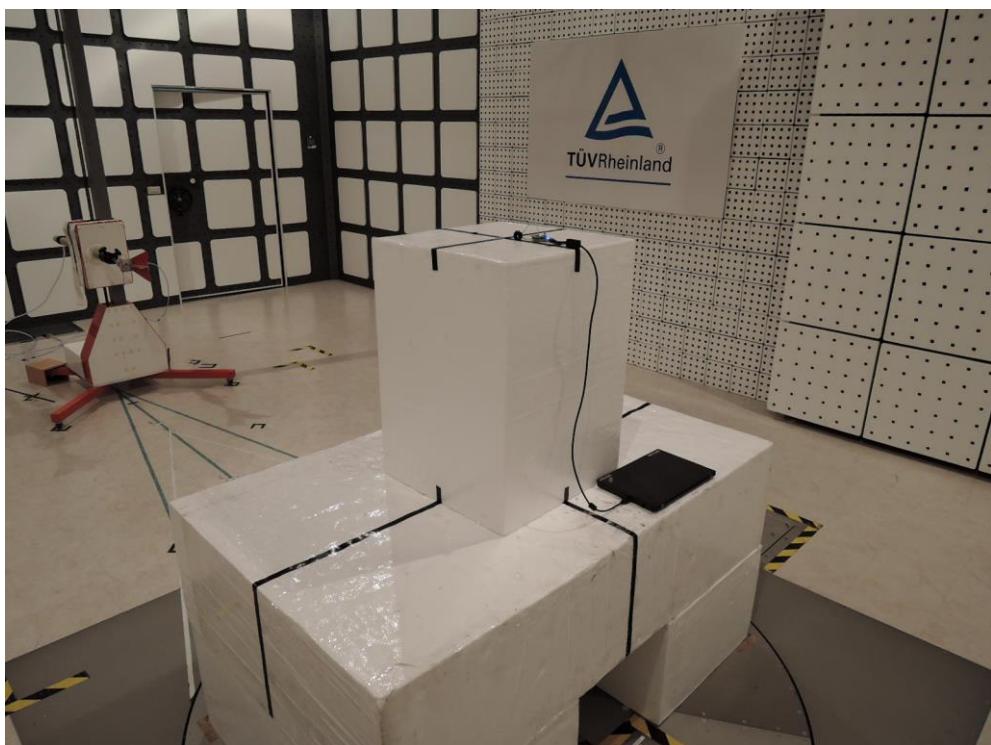
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Photograph 2: Set-up for Radiated Emission (30 MHz-1GHz)



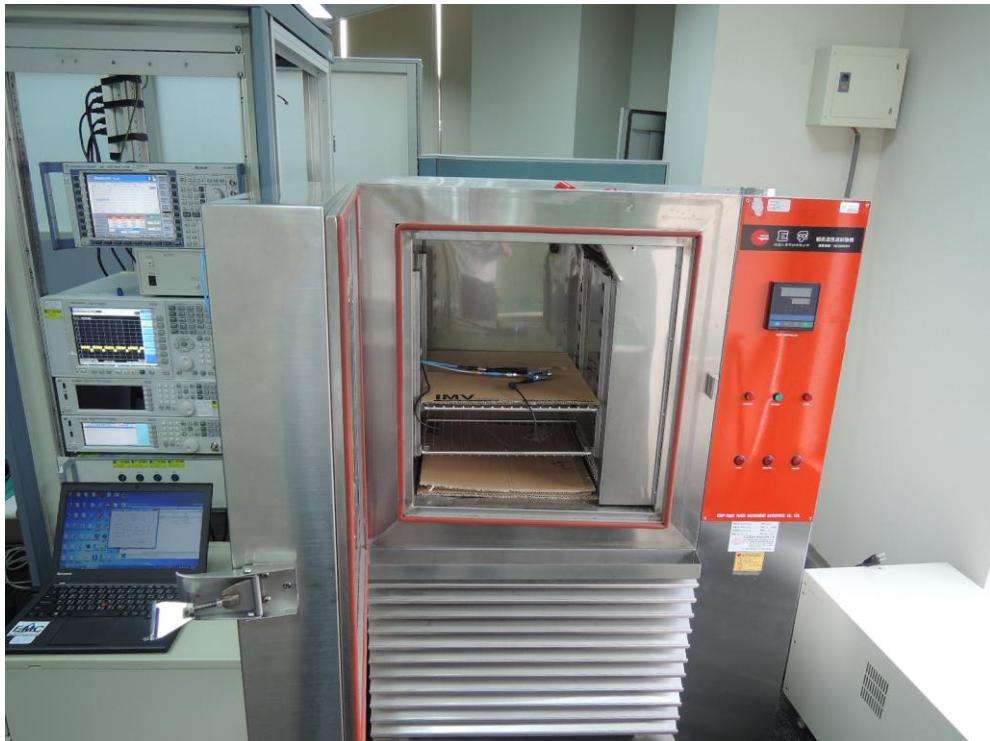
Photograph 3: Set-up for Radiated Emission (Rear View 2)



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Photograph 4: Setup for Radio Frequency Conducted Tests



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Appendix D: Radiated Spurious Emission Data

(File: CN21UI4W 001 Appendix D)

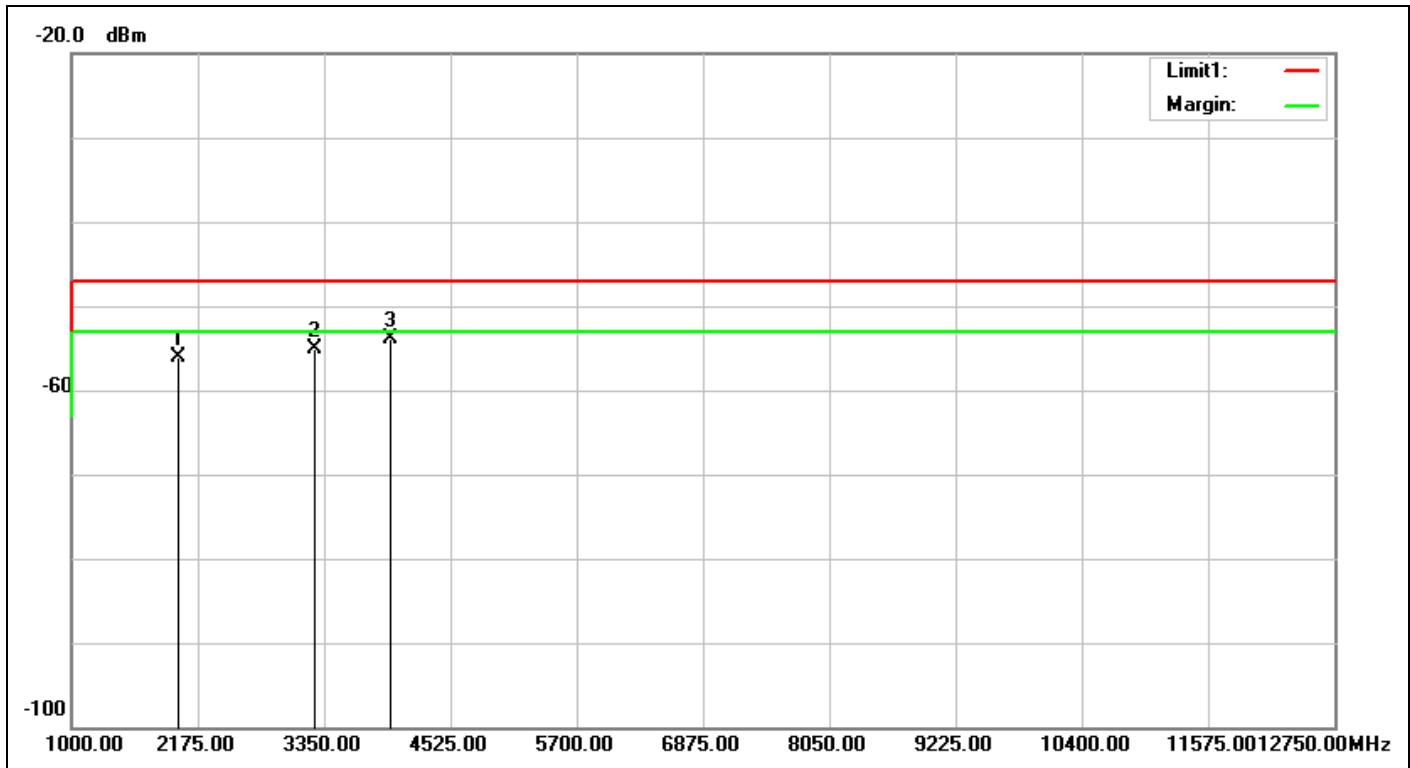
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Spurious Emissions, TX Mode, 1-12.75G.....	26
Spurious Emissions, TX Mode, 30M-1G	38

Spurious Emissions, Receiving Mode, 1-12.75G

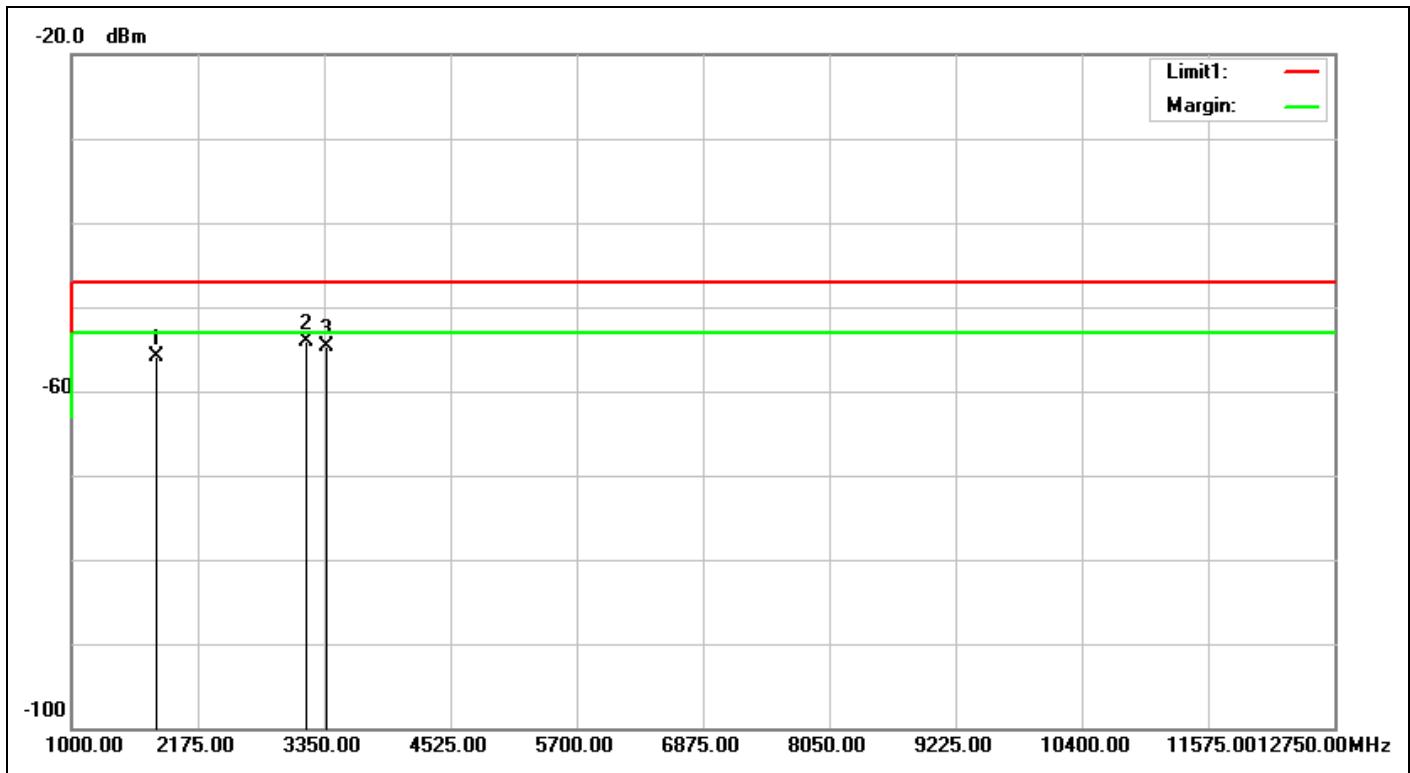


TUV Taiwan
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
 Tel:+886-2172-7000 fax:+886-2528-0018



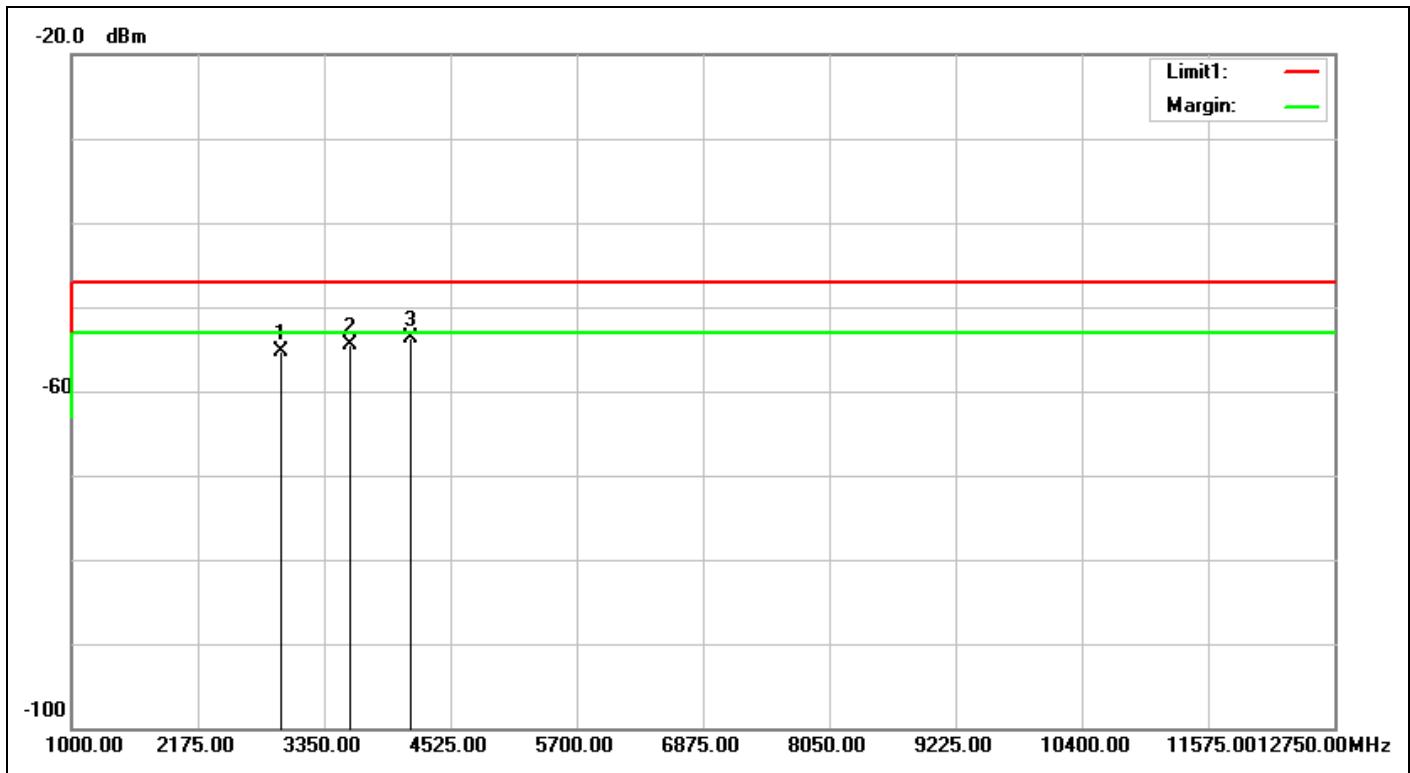
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:27:21
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1987.000	-3.11	-53.03	-56.14	-47.00	-9.14	peak	100	228	
2	3267.750	0.68	-55.80	-55.12	-47.00	-8.12	peak	100	139	
3	3972.750	2.29	-56.10	-53.81	-47.00	-6.81	peak	100	162	



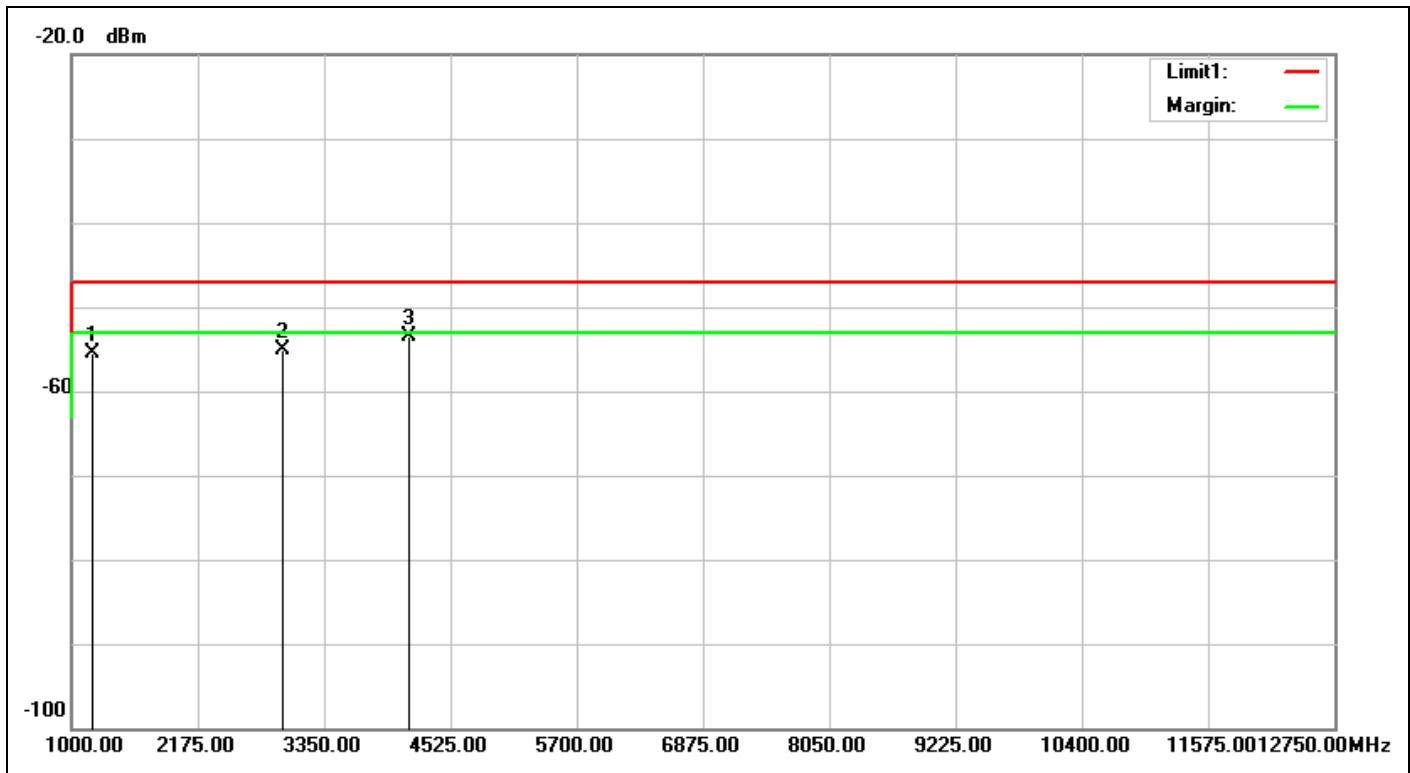
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:28:23
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1787.250	-2.47	-53.46	-55.93	-47.00	-8.93	peak	100	357	
2	3185.500	0.92	-55.03	-54.11	-47.00	-7.11	peak	100	260	
3	3373.500	1.79	-56.48	-54.69	-47.00	-7.69	peak	100	271	



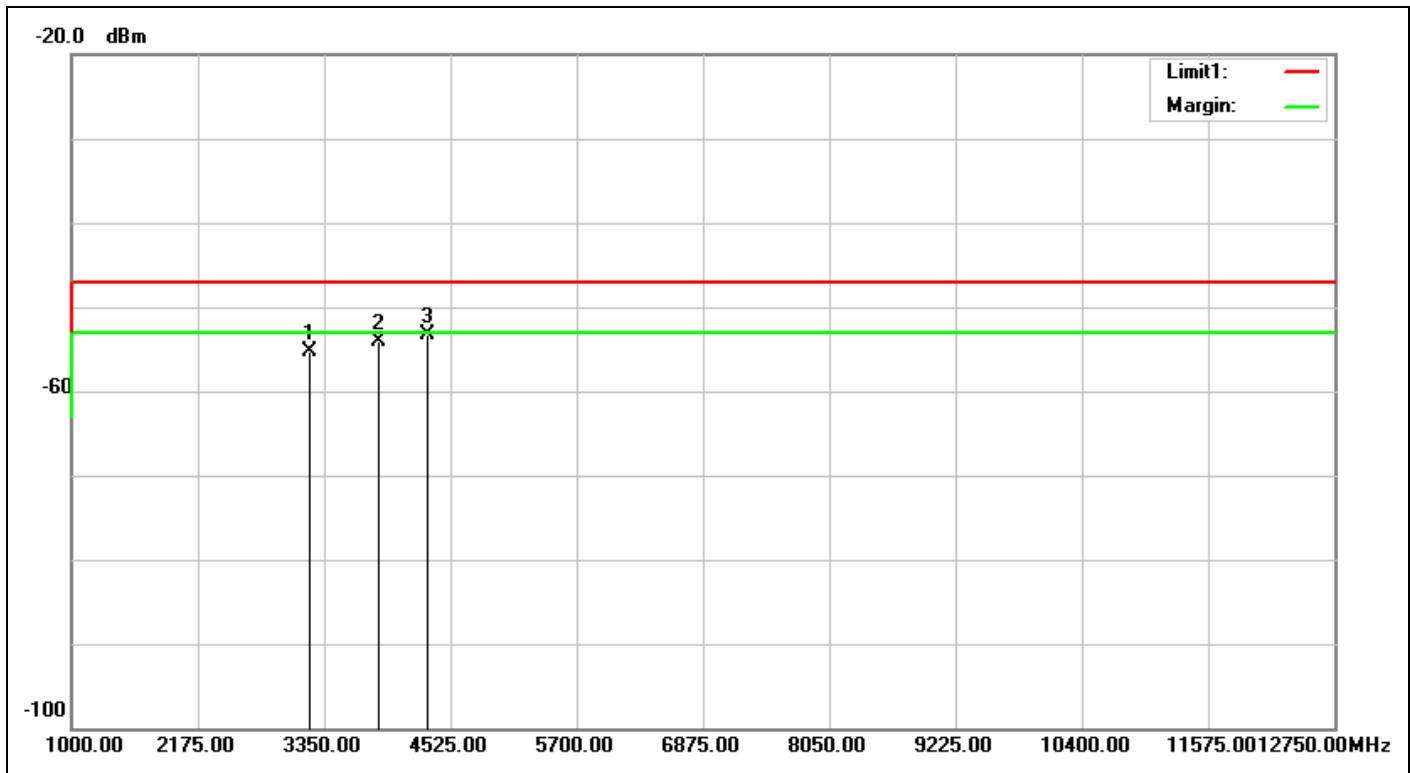
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:32:28
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2950.500	-0.40	-54.91	-55.31	-47.00	-8.31	peak	100	190	
2	3596.750	1.60	-56.17	-54.57	-47.00	-7.57	peak	100	59	
3	4149.000	2.94	-56.63	-53.69	-47.00	-6.69	peak	100	45	



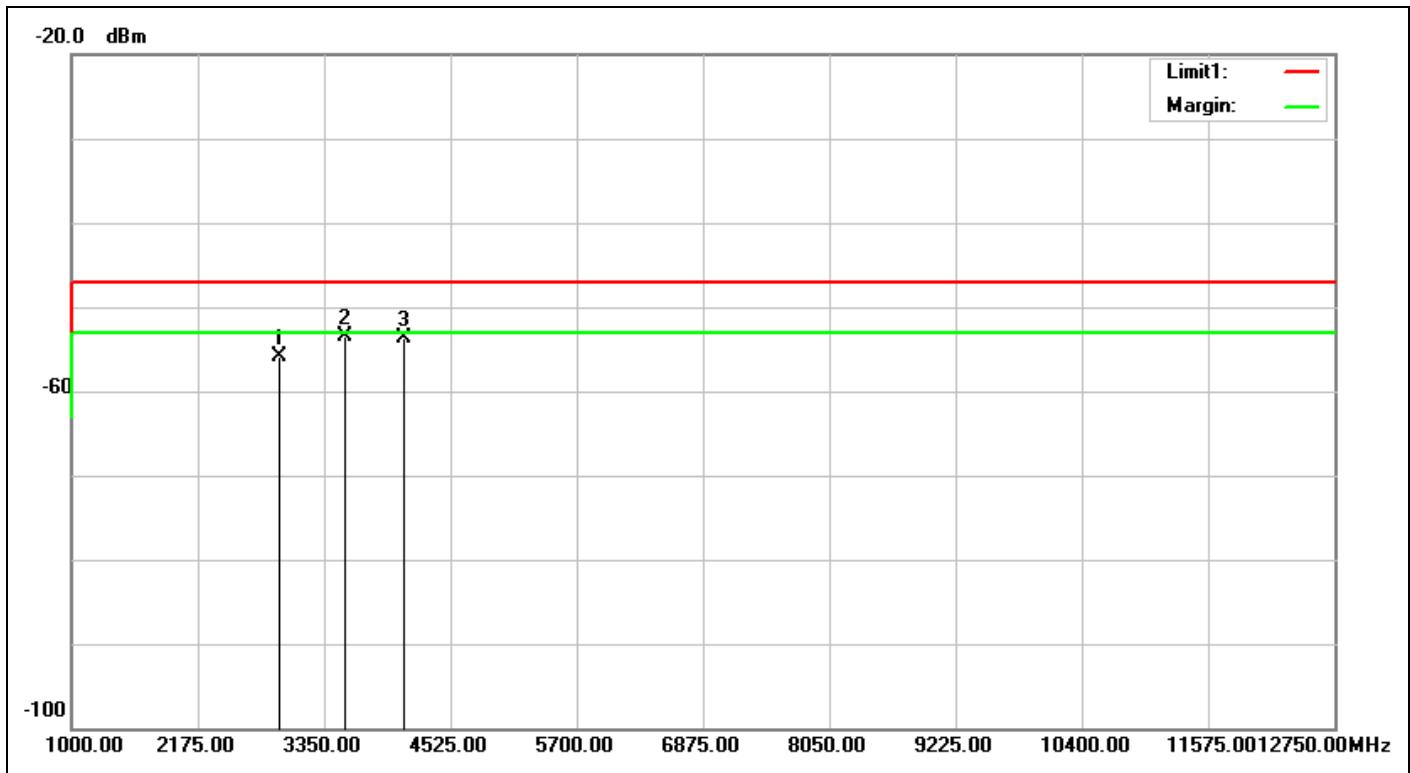
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Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:33:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1199.750	-5.37	-50.11	-55.48	-47.00	-8.48	peak	100	282	
2	2962.250	-0.08	-55.10	-55.18	-47.00	-8.18	peak	100	358	
3	4137.250	2.79	-56.37	-53.58	-47.00	-6.58	peak	100	176	



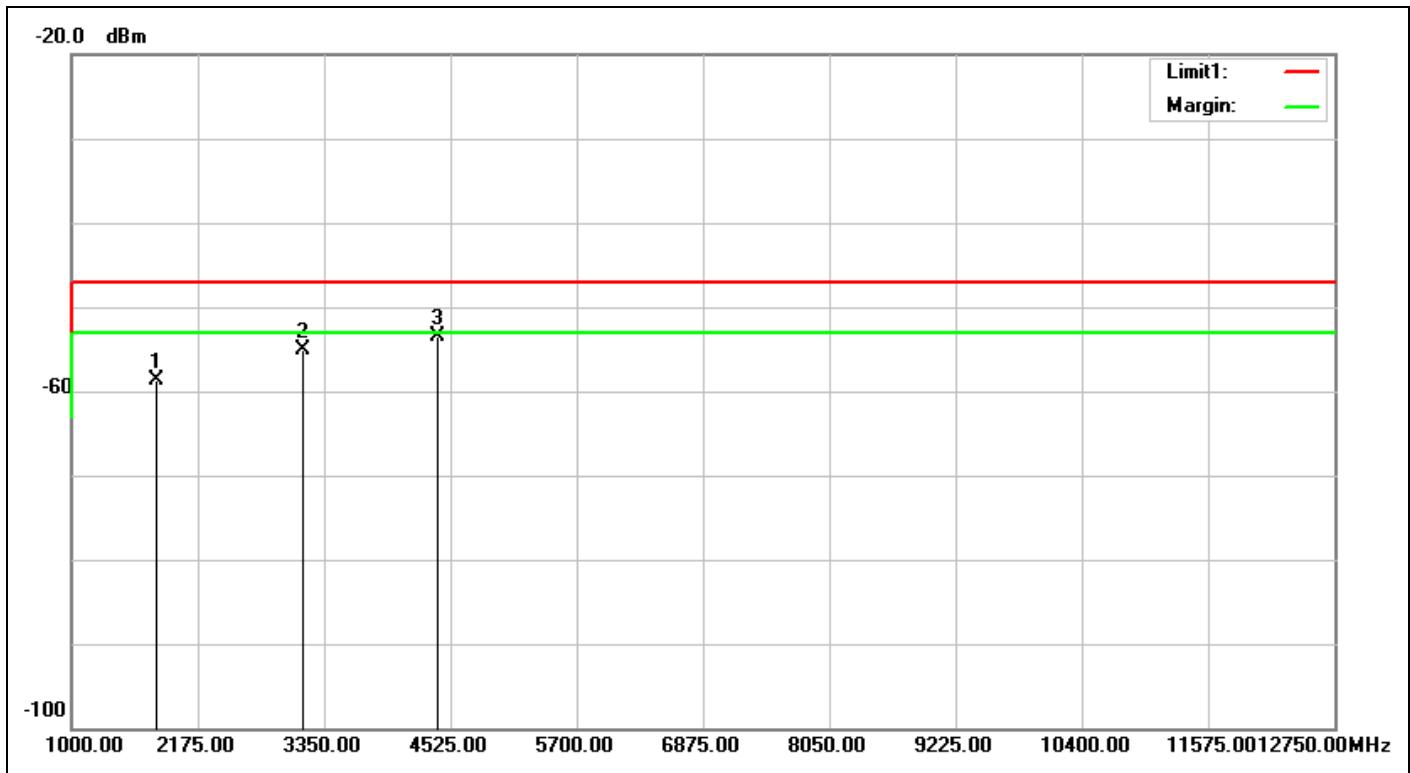
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Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:35:25
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3209.000	0.48	-55.78	-55.30	-47.00	-8.30	peak		0	
2	3855.250	2.09	-56.17	-54.08	-47.00	-7.08	peak		0	
3	4313.500	3.59	-56.87	-53.28	-47.00	-6.28	peak		0	



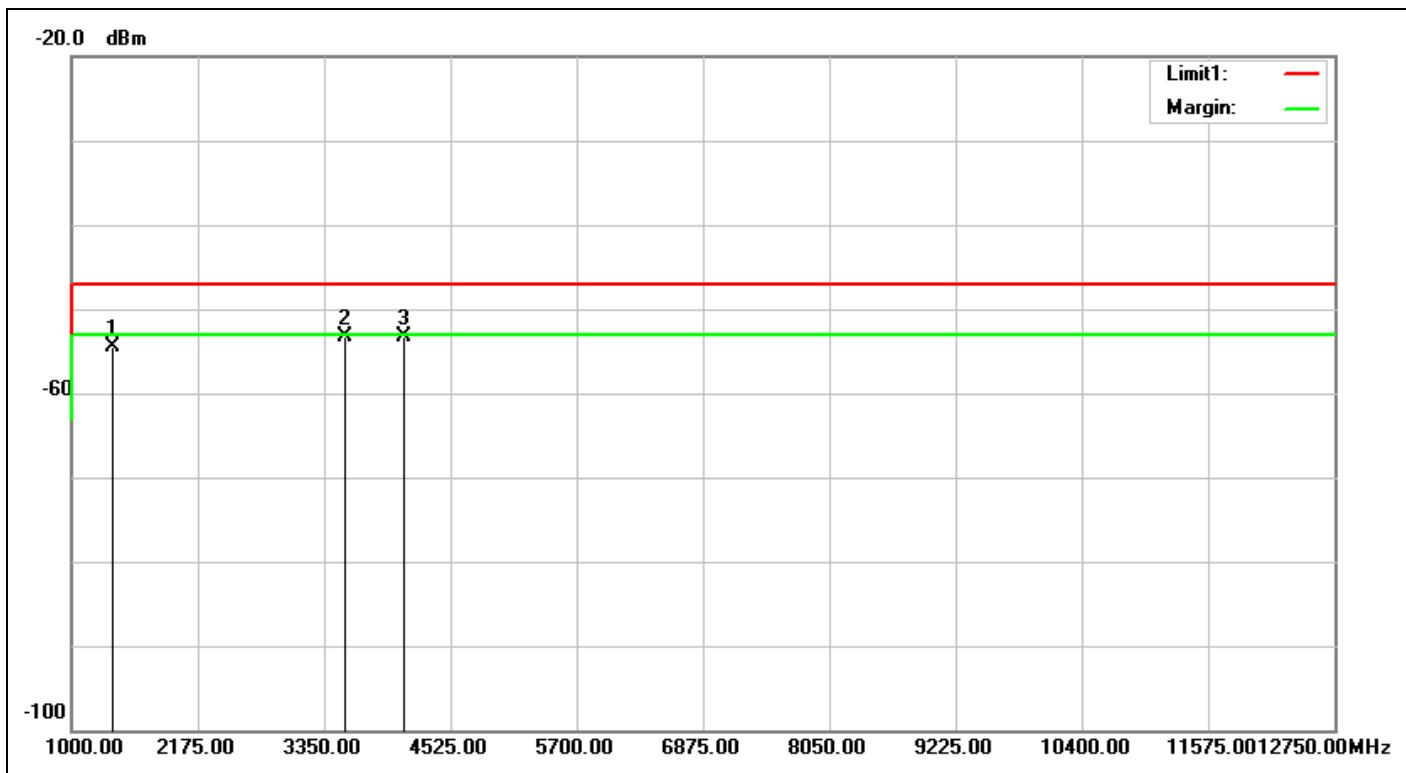
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:36:27
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2927.000	-0.22	-55.61	-55.83	-47.00	-8.83	peak	100	84	
2	3549.750	2.35	-55.90	-53.55	-47.00	-6.55	peak	100	360	
3	4090.250	2.57	-56.18	-53.61	-47.00	-6.61	peak	100	234	



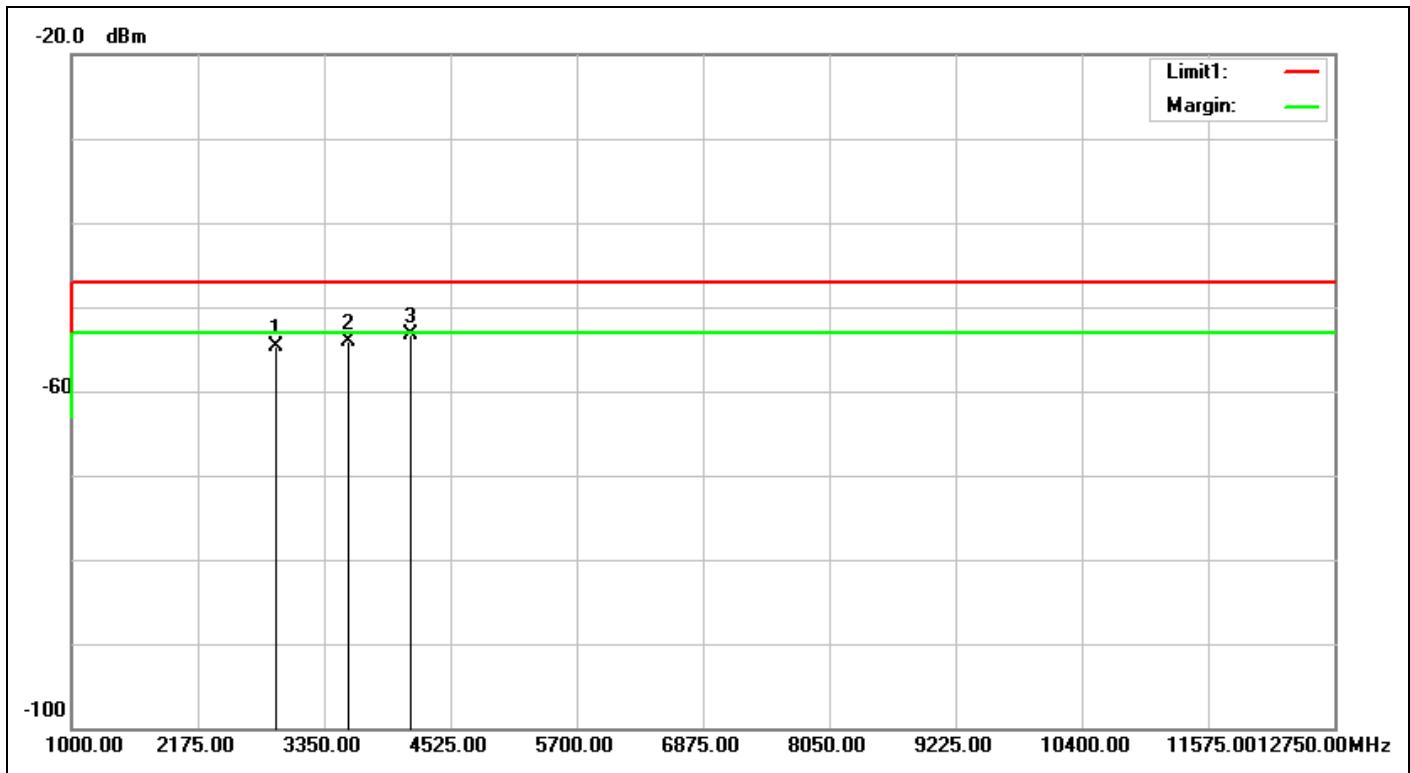
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Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:41:51
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1787.250	-3.68	-55.05	-58.73	-47.00	-11.73	peak	100	171	
2	3150.250	0.30	-55.36	-55.06	-47.00	-8.06	peak	100	37	
3	4407.500	3.97	-57.38	-53.41	-47.00	-6.41	peak	100	285	



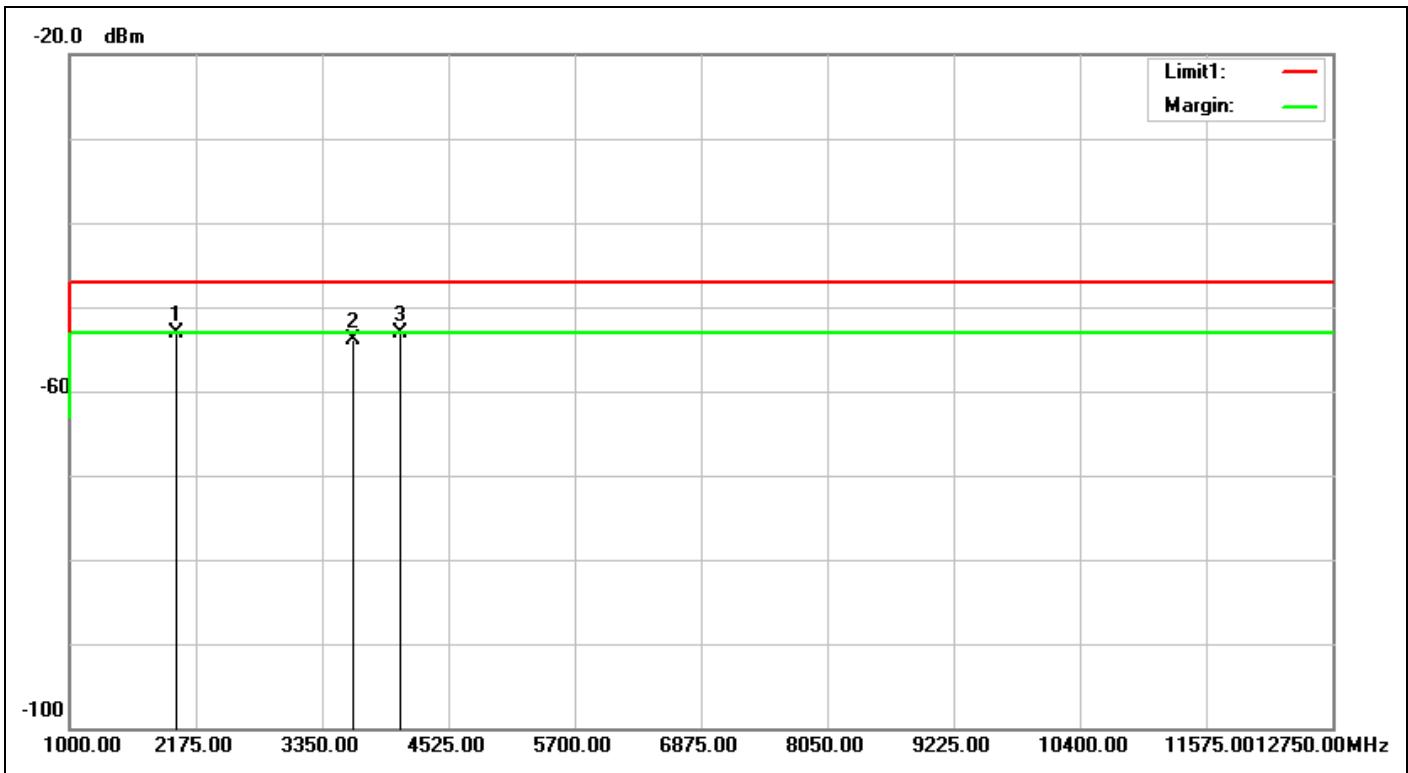
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:42:53
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1387.750	-3.76	-50.76	-54.52	-47.00	-7.52	peak	100	1	
2	3549.750	2.35	-55.70	-53.35	-47.00	-6.35	peak	100	251	
3	4090.250	2.57	-55.90	-53.33	-47.00	-6.33	peak	100	53	



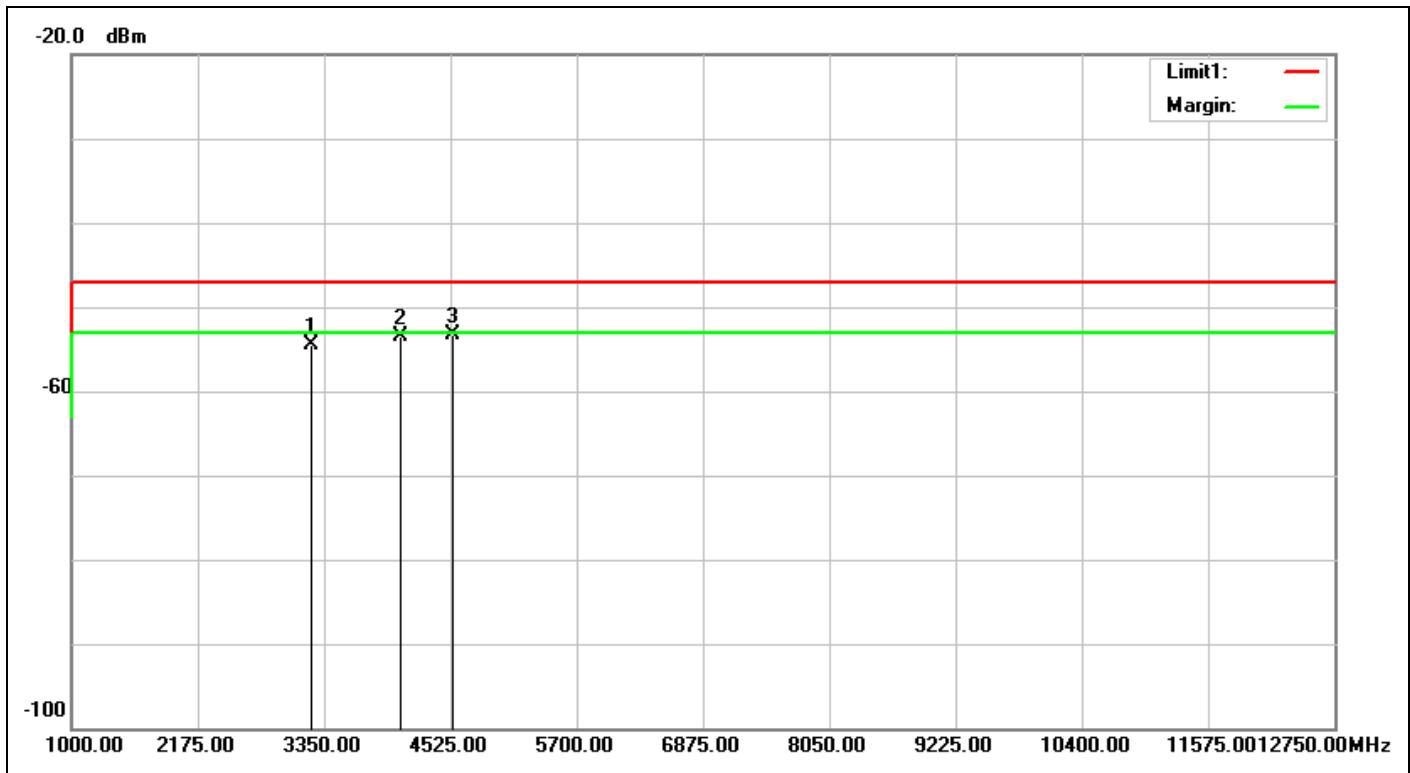
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:45:08
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2903.500	-0.62	-54.03	-54.65	-47.00	-7.65	peak	100	357	
2	3573.250	1.54	-55.59	-54.05	-47.00	-7.05	peak	100	271	
3	4149.000	2.94	-56.14	-53.20	-47.00	-6.20	peak	100	352	



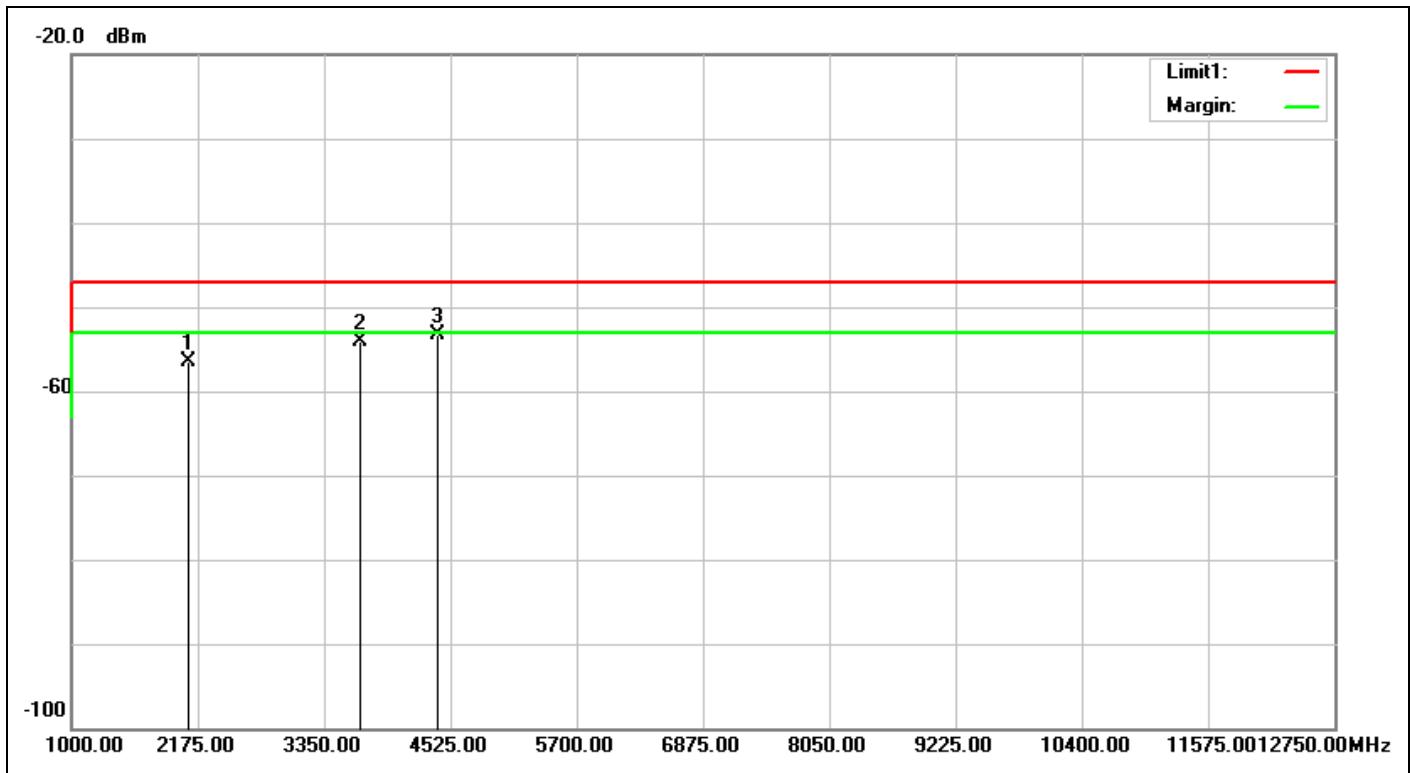
Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:46:10
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	1987.000	-2.25	-50.92	-53.17	-47.00	-6.17	peak	100	296	
2	3632.000	2.32	-56.16	-53.84	-47.00	-6.84	peak	100	173	
3	4078.500	2.54	-55.72	-53.18	-47.00	-6.18	peak	100	235	



Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 22:48:02
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3232.500	0.55	-54.95	-54.40	-47.00	-7.40	peak	100	57	
2	4066.750	2.61	-56.04	-53.43	-47.00	-6.43	peak	100	143	
3	4548.500	4.40	-57.60	-53.20	-47.00	-6.20	peak	100	90	



Service No.:	114039665-CE	Test Distance:	1.2m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:49:04
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2092.750	-2.19	-54.31	-56.50	-47.00	-9.50	peak	100	237	
2	3690.750	2.31	-56.36	-54.05	-47.00	-7.05	peak	100	73	
3	4407.500	3.89	-57.26	-53.37	-47.00	-6.37	peak	100	28	

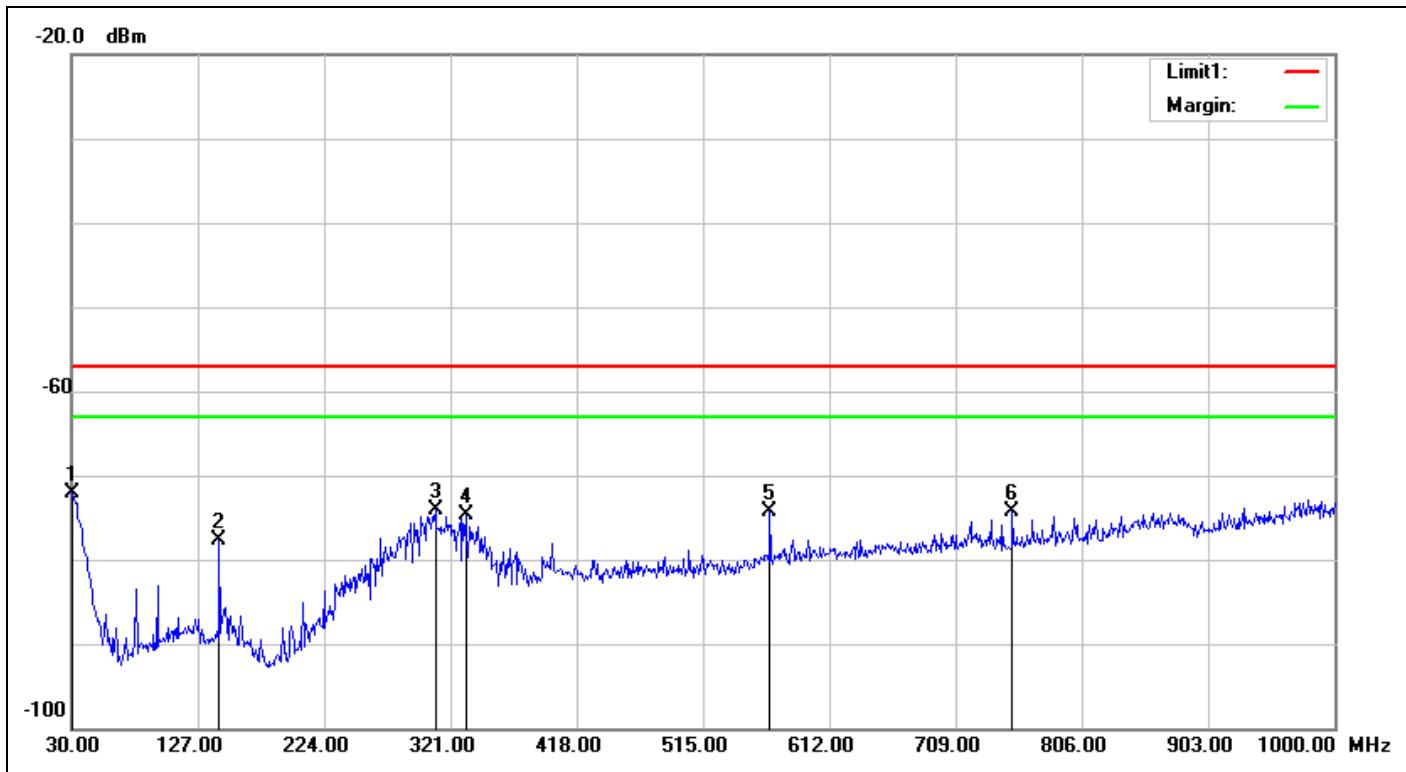
Spurious Emissions, Receiving Mode, 30M-1G



TUV Taiwan

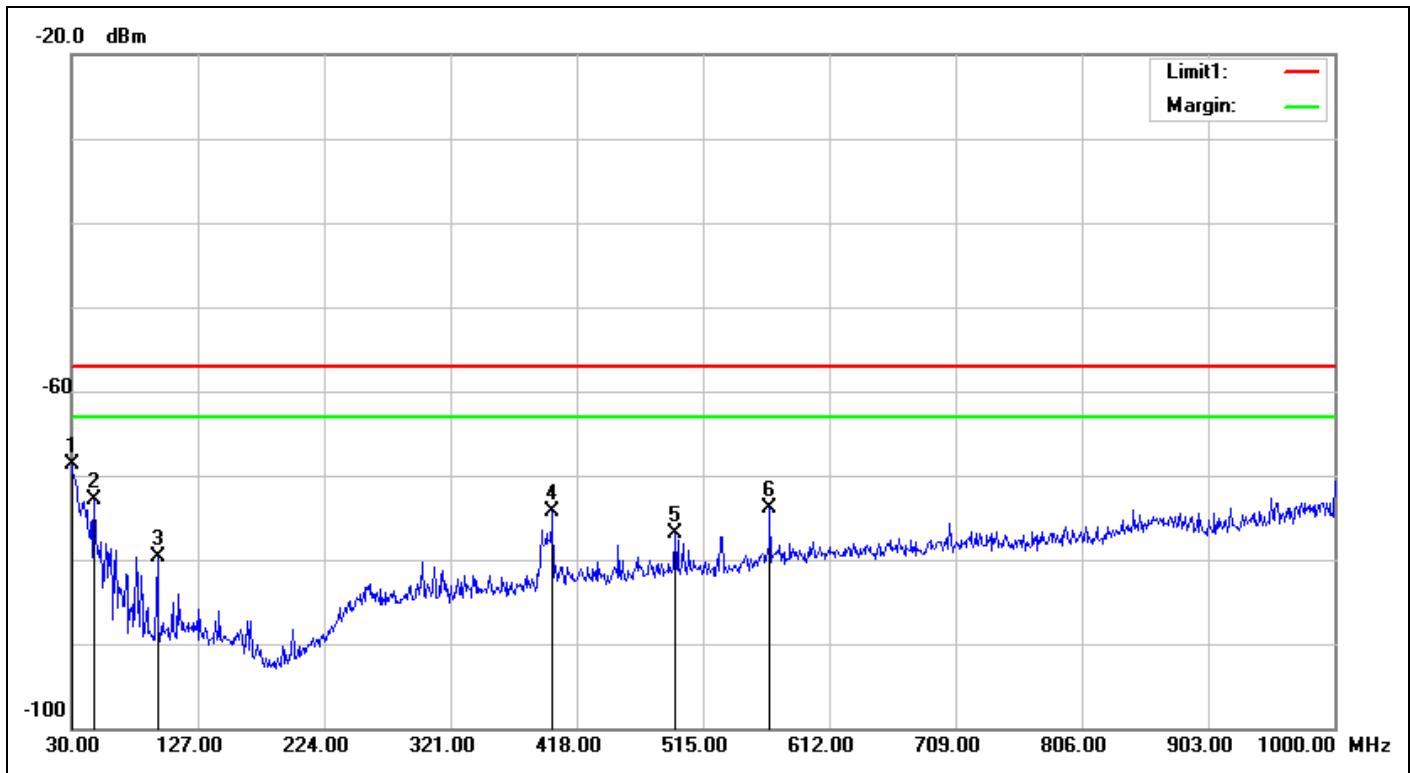
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

Tel:+886-2172-7000 fax:+886-2528-0018



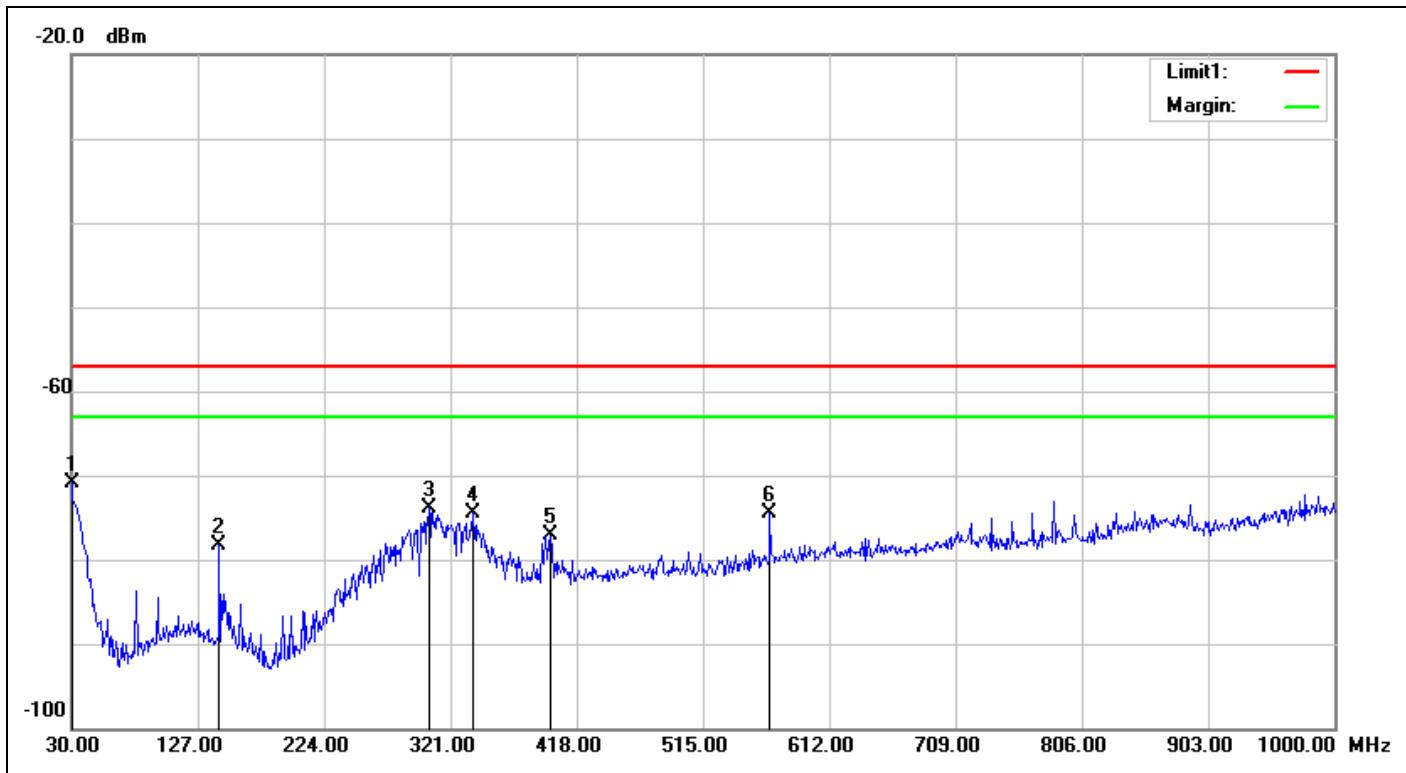
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:05:00
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-78.38	-72.13	-57.00	-15.13	peak	100	50	
2	143.4900	-11.14	-66.51	-77.65	-57.00	-20.65	peak	100	182	
3	309.3600	-6.03	-68.08	-74.11	-57.00	-17.11	peak	100	220	
4	332.6400	-5.66	-69.05	-74.71	-57.00	-17.71	peak	100	324	
5	566.4100	-2.32	-71.96	-74.28	-57.00	-17.28	peak	100	201	
6	752.6500	-0.69	-73.54	-74.23	-57.00	-17.23	peak	100	235	



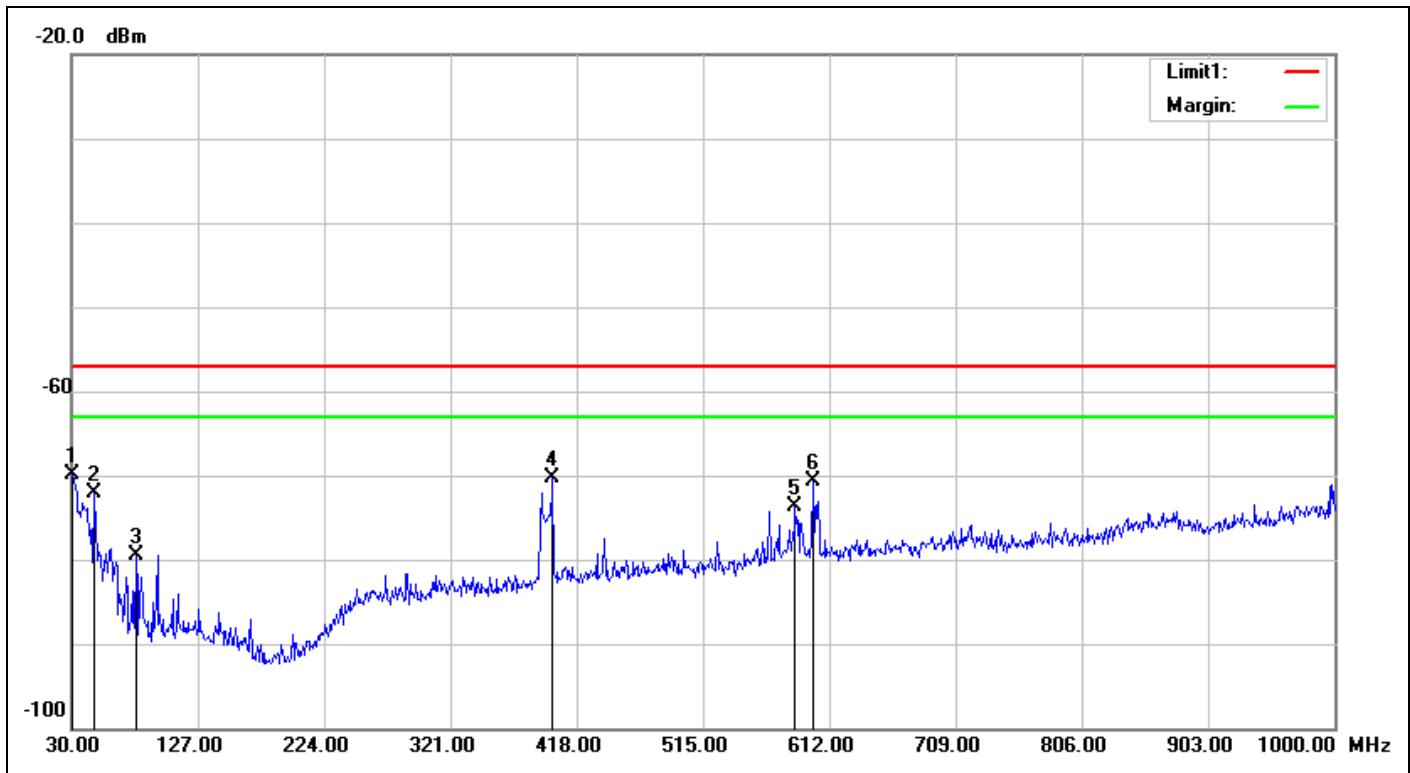
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:06:01
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-75.57	-68.70	-57.00	-11.70	peak	100	125	
2	47.4600	-6.91	-65.93	-72.84	-57.00	-15.84	peak	100	64	
3	95.9600	-11.51	-68.12	-79.63	-57.00	-22.63	peak	100	237	
4	399.5700	-4.24	-69.98	-74.22	-57.00	-17.22	peak	100	5	
5	493.6600	-3.43	-73.56	-76.99	-57.00	-19.99	peak	100	27	
6	566.4100	-2.32	-71.58	-73.90	-57.00	-16.90	peak	100	58	



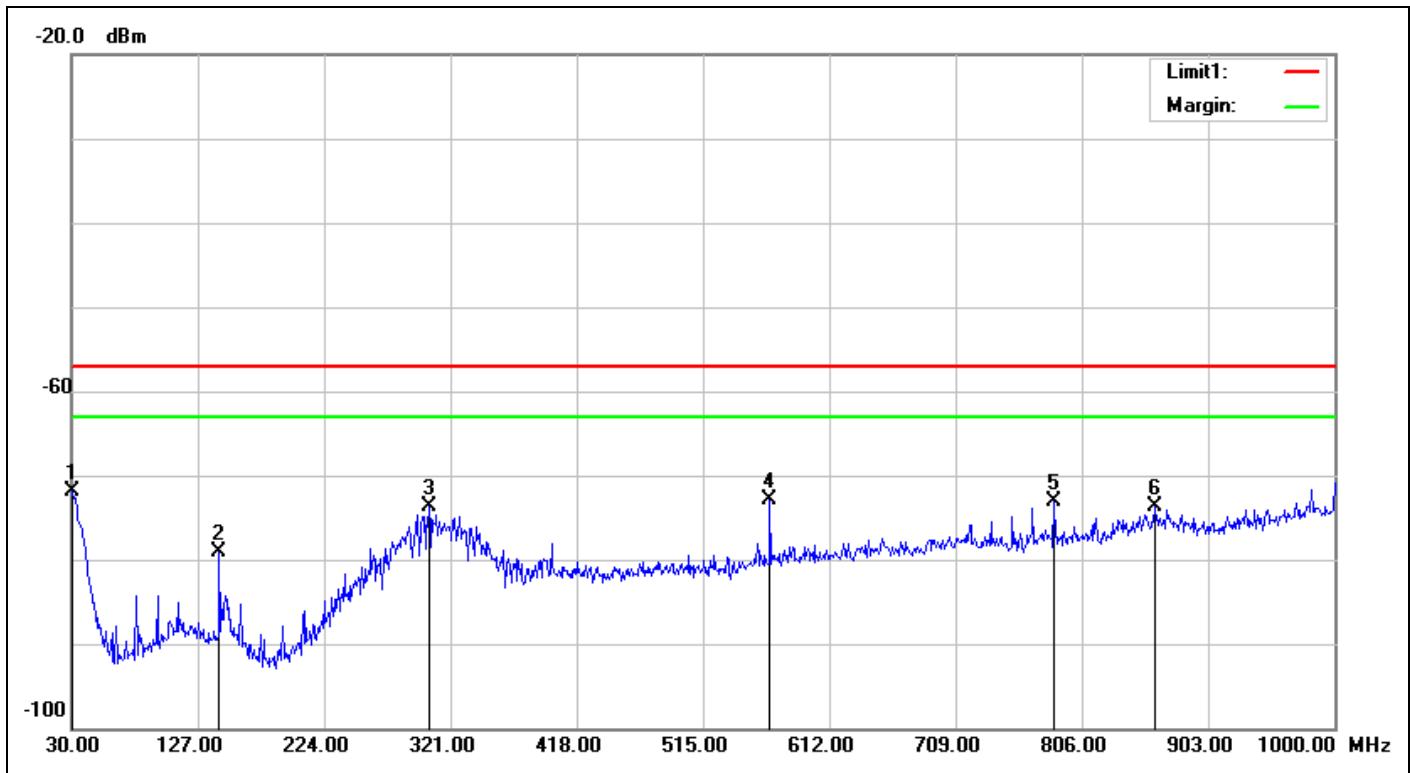
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Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:07:36
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-77.85	-70.98	-57.00	-13.98	peak	100	238	
2	143.4900	-11.14	-67.08	-78.22	-57.00	-21.22	peak	100	157	
3	304.5100	-6.07	-67.91	-73.98	-57.00	-16.98	peak	100	129	
4	338.4600	-5.55	-69.00	-74.55	-57.00	-17.55	peak	100	313	
5	397.6300	-4.30	-72.89	-77.19	-57.00	-20.19	peak	100	268	
6	566.4100	-2.32	-72.14	-74.46	-57.00	-17.46	peak	100	185	



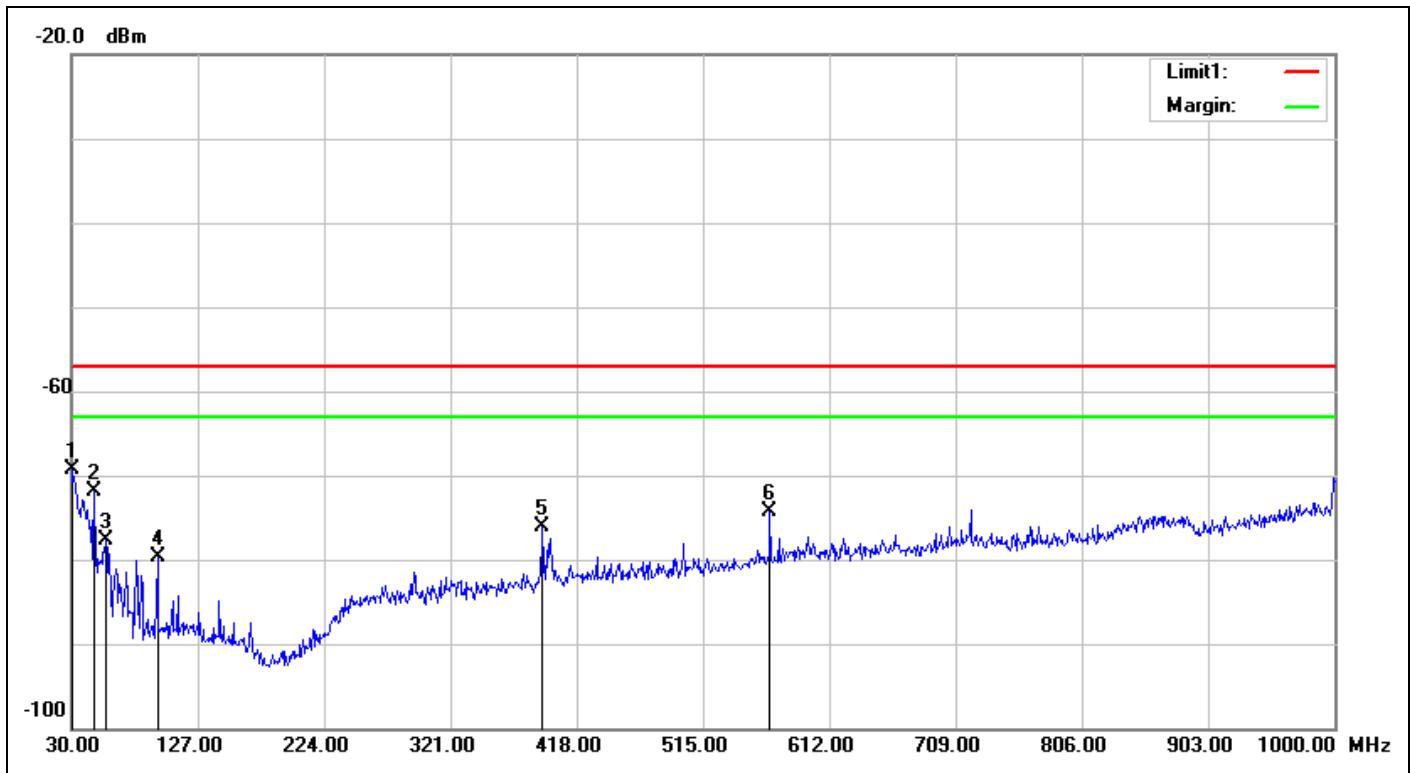
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Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:08:38
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-76.07	-69.82	-57.00	-12.82	peak	100	100	
2	47.4600	-6.91	-65.24	-72.15	-57.00	-15.15	peak	100	321	
3	79.4700	-12.91	-66.53	-79.44	-57.00	-22.44	peak	100	318	
4	399.5700	-4.24	-66.09	-70.33	-57.00	-13.33	peak	100	209	
5	585.8100	-1.99	-71.63	-73.62	-57.00	-16.62	peak	100	248	
6	599.3900	-1.82	-68.85	-70.67	-57.00	-13.67	peak	100	279	



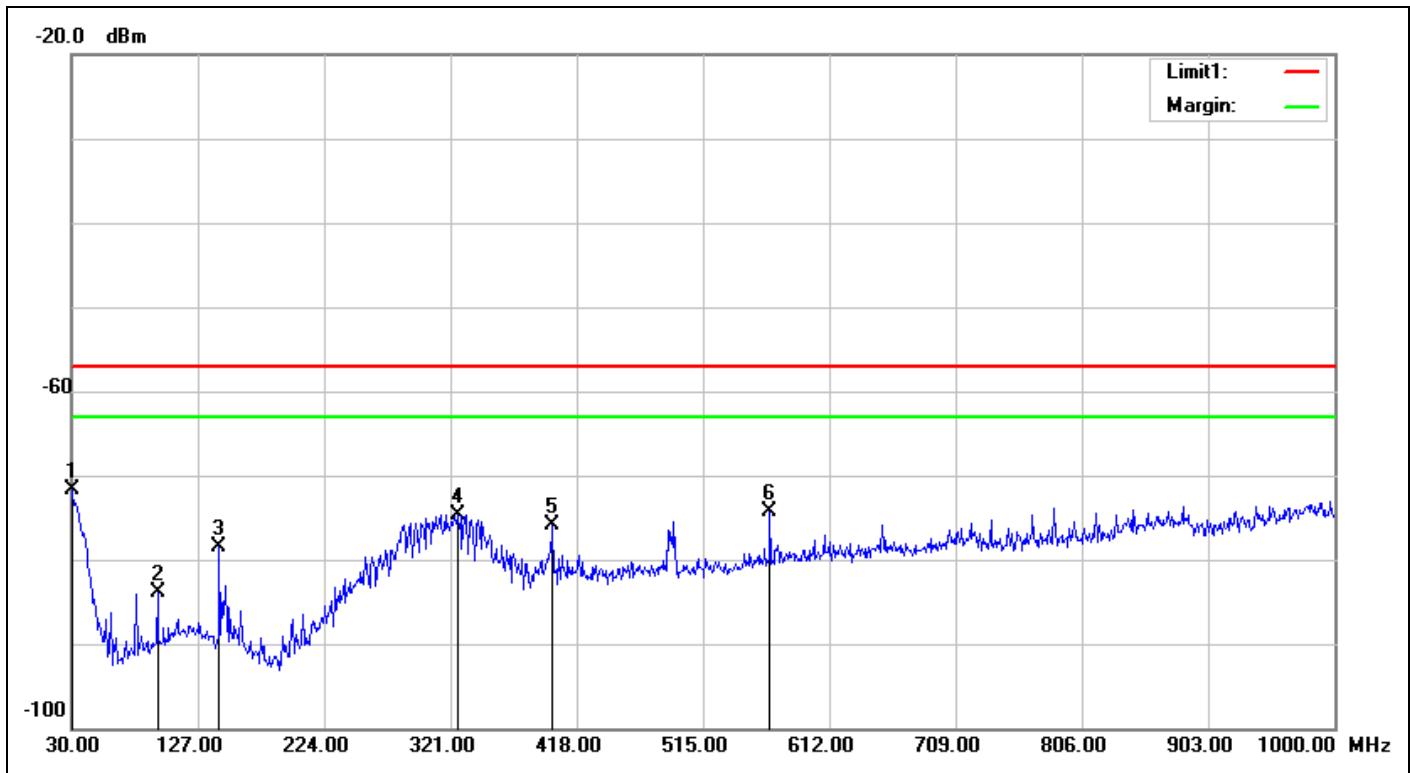
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:10:33
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.80	-71.93	-57.00	-14.93	peak	100	351	
2	143.4900	-11.14	-67.96	-79.10	-57.00	-22.10	peak	100	143	
3	304.5100	-6.07	-67.60	-73.67	-57.00	-16.67	peak	100	212	
4	566.4100	-2.32	-70.64	-72.96	-57.00	-15.96	peak	100	195	
5	784.6600	-0.15	-72.97	-73.12	-57.00	-16.12	peak	100	313	
6	862.2600	2.01	-75.71	-73.70	-57.00	-16.70	peak	100	78	



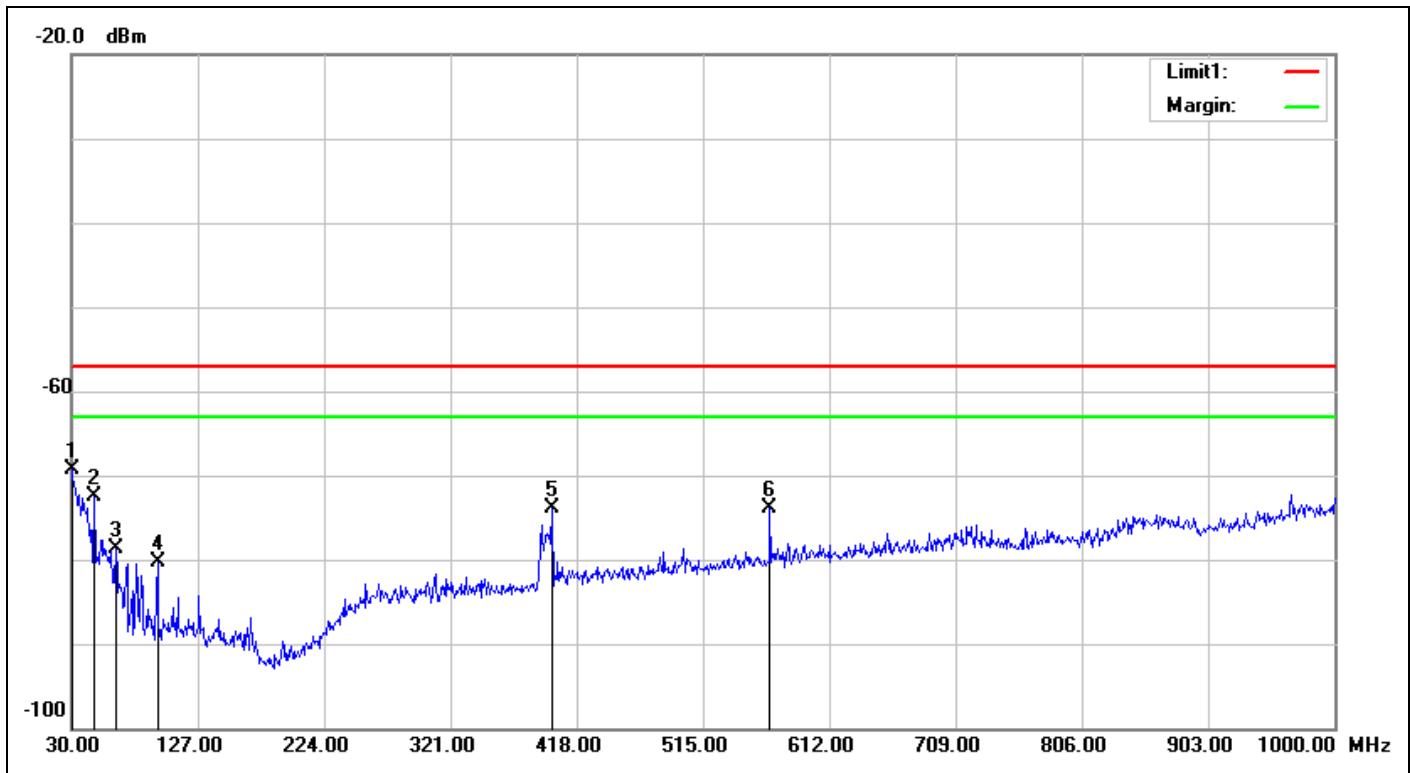
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:11:35
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-76.25	-69.38	-57.00	-12.38	peak	100	1	
2	47.4600	-6.91	-64.98	-71.89	-57.00	-14.89	peak	100	2	
3	56.1900	-11.97	-65.75	-77.72	-57.00	-20.72	peak	100	28	
4	95.9600	-11.51	-68.26	-79.77	-57.00	-22.77	peak	100	287	
5	391.8100	-4.51	-71.63	-76.14	-57.00	-19.14	peak	100	217	
6	566.4100	-2.32	-71.92	-74.24	-57.00	-17.24	peak	100	53	



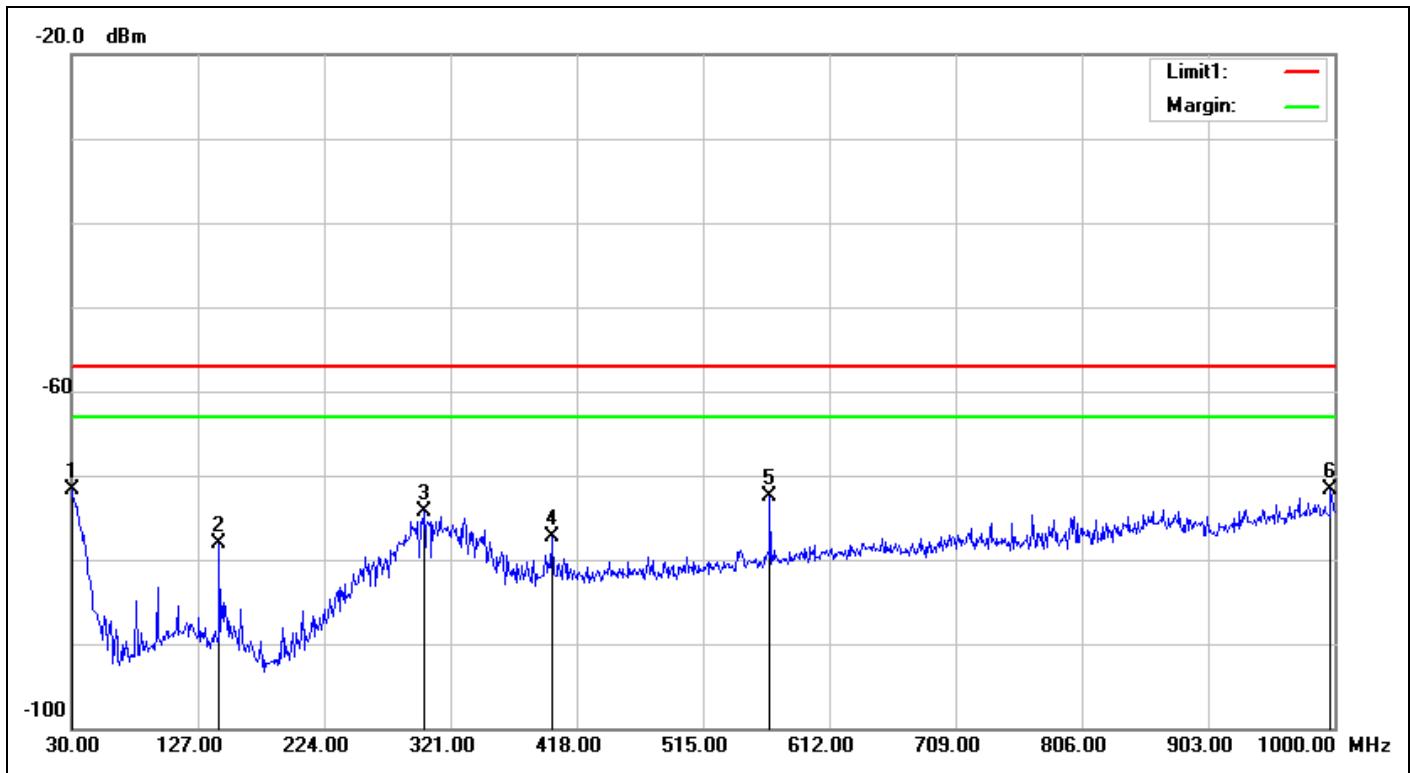
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:13:01
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.65	-71.78	-57.00	-14.78	peak	100	0	
2	95.9599	-11.51	-72.48	-83.99	-57.00	-26.99	peak	100	53	
3	143.4900	-11.14	-67.32	-78.46	-57.00	-21.46	peak	100	237	
4	326.8200	-5.78	-68.85	-74.63	-57.00	-17.63	peak	100	301	
5	399.5700	-4.24	-71.63	-75.87	-57.00	-18.87	peak	100	332	
6	566.4100	-2.32	-71.91	-74.23	-57.00	-17.23	peak	100	198	



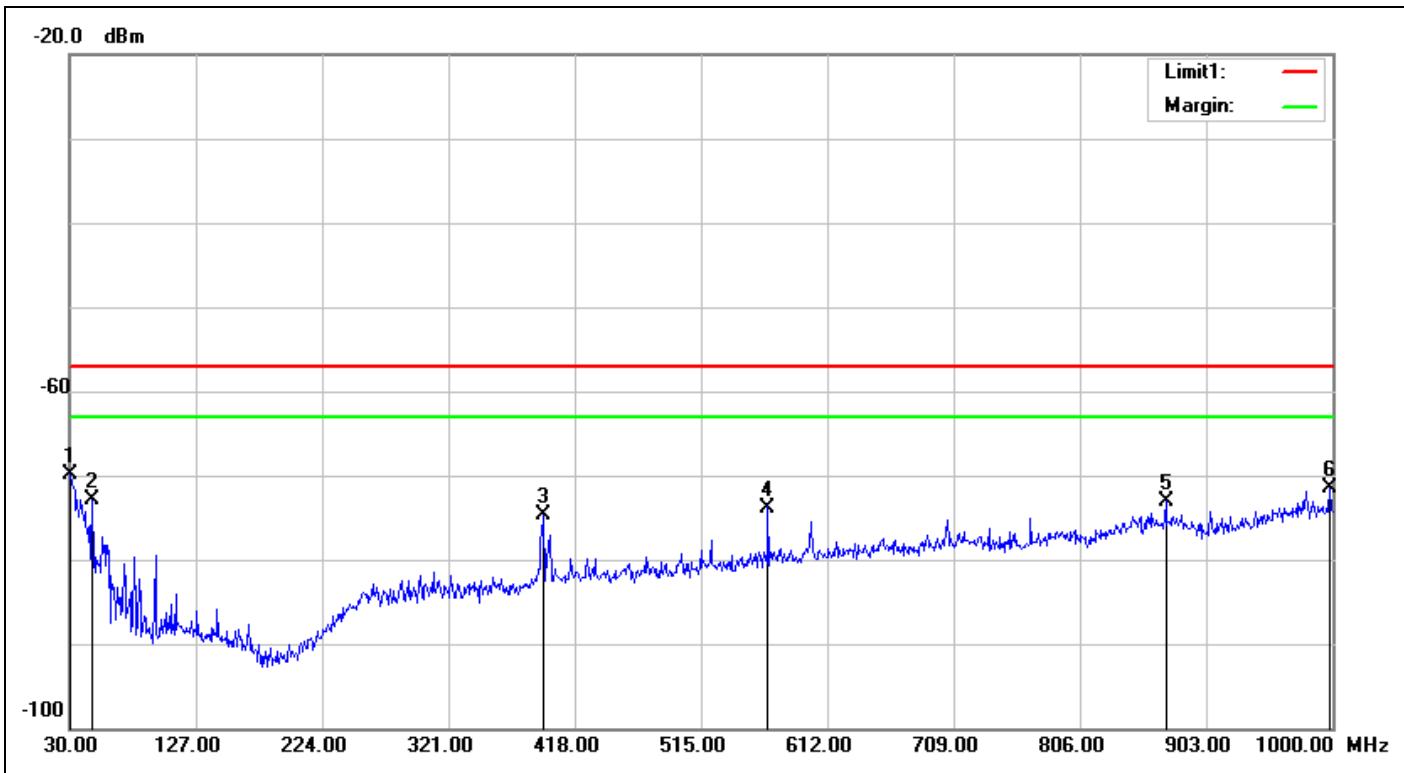
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:14:03
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-76.15	-69.28	-57.00	-12.28	peak	100	20	
2	47.4600	-6.91	-65.58	-72.49	-57.00	-15.49	peak	100	47	
3	63.9500	-13.72	-64.91	-78.63	-57.00	-21.63	peak	100	3	
4	95.9600	-11.51	-68.78	-80.29	-57.00	-23.29	peak	100	50	
5	398.6000	-4.27	-69.72	-73.99	-57.00	-16.99	peak	100	359	
6	566.4100	-2.32	-71.57	-73.89	-57.00	-16.89	peak	100	270	



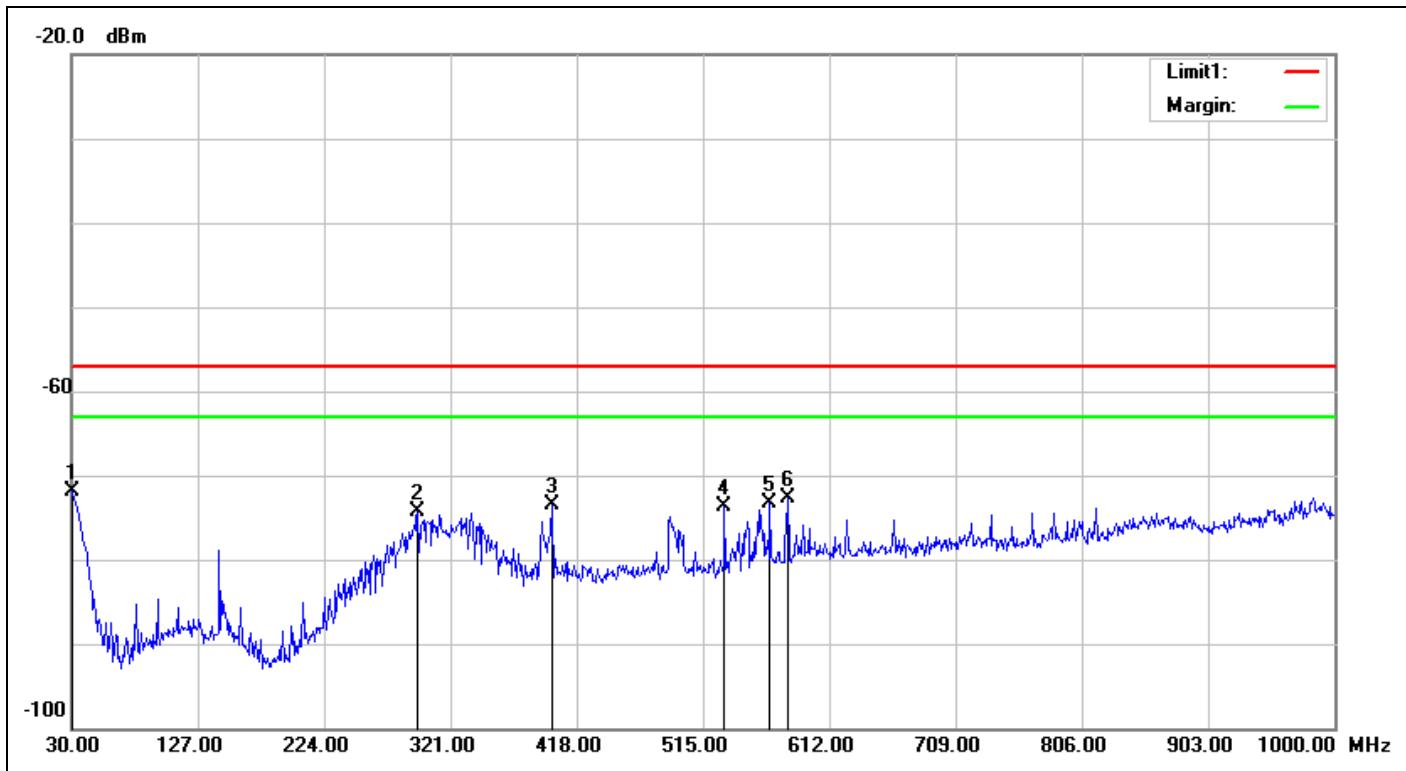
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:15:41
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.62	-71.75	-57.00	-14.75	peak	100	85	
2	143.4900	-11.14	-67.00	-78.14	-57.00	-21.14	peak	100	173	
3	300.6300	-6.10	-68.18	-74.28	-57.00	-17.28	peak	100	229	
4	399.5700	-4.24	-73.12	-77.36	-57.00	-20.36	peak	100	335	
5	566.4100	-2.32	-70.26	-72.58	-57.00	-15.58	peak	100	204	
6	997.0900	3.37	-75.10	-71.73	-57.00	-14.73	peak	100	85	



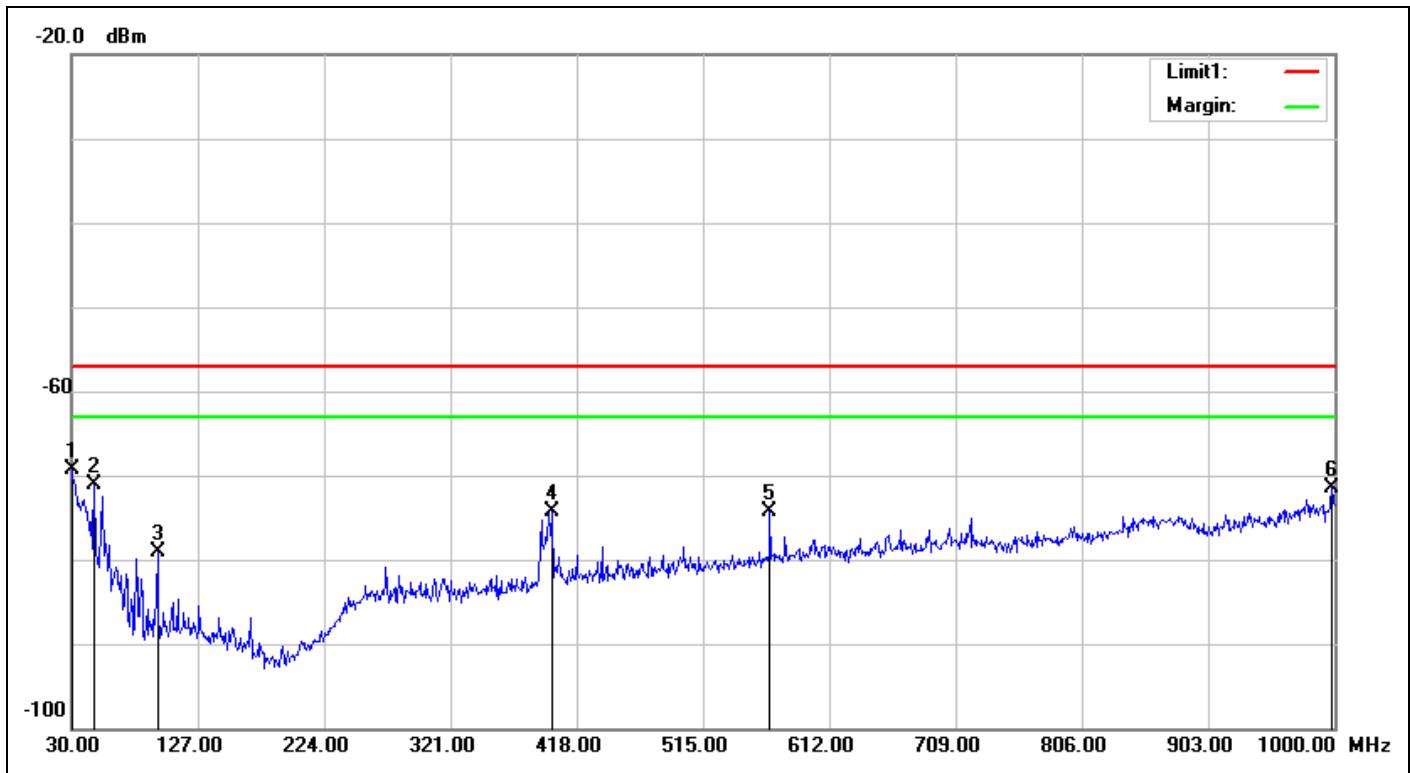
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:16:43
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-76.20	-69.95	-57.00	-12.95	peak	100	315	
2	47.4600	-6.91	-66.05	-72.96	-57.00	-15.96	peak	100	56	
3	393.7500	-4.44	-70.34	-74.78	-57.00	-17.78	peak	100	198	
4	566.4100	-2.32	-71.48	-73.80	-57.00	-16.80	peak	100	276	
5	871.9600	1.94	-75.13	-73.19	-57.00	-16.19	peak	100	167	
6	998.0600	3.35	-74.93	-71.58	-57.00	-14.58	peak	100	195	



Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:18:15
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.76	-71.89	-57.00	-14.89	peak	100	87	
2	295.7799	-6.09	-68.26	-74.35	-57.00	-17.35	peak	100	165	
3	398.6000	-4.27	-69.14	-73.41	-57.00	-16.41	peak	100	271	
4	531.4900	-3.23	-70.53	-73.76	-57.00	-16.76	peak	100	182	
5	566.4100	-2.32	-71.04	-73.36	-57.00	-16.36	peak	100	201	
6	579.9900	-2.07	-70.54	-72.61	-57.00	-15.61	peak	100	218	



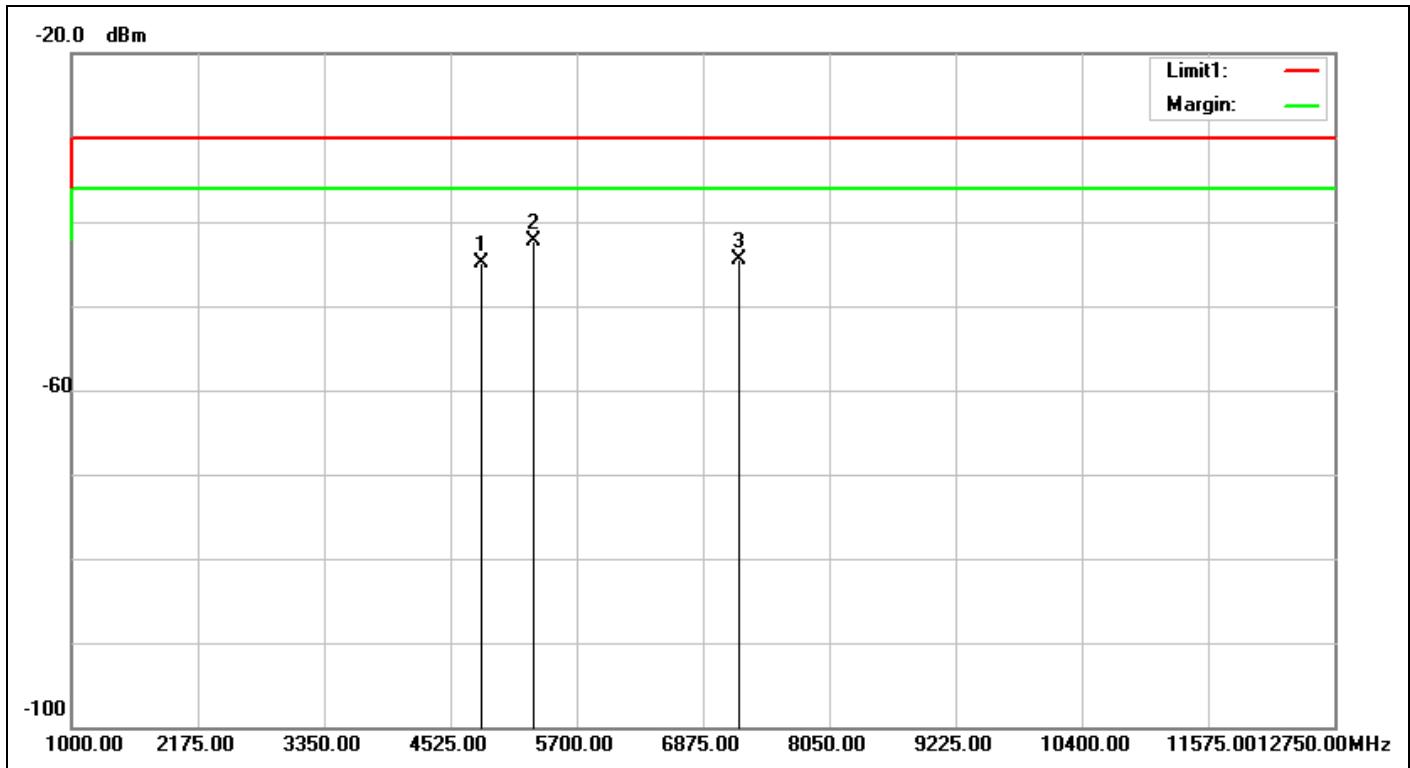
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Rx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:19:17
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-76.18	-69.31	-57.00	-12.31	peak	100	360	
2	47.4600	-6.91	-64.17	-71.08	-57.00	-14.08	peak	100	78	
3	95.9600	-11.51	-67.60	-79.11	-57.00	-22.11	peak	100	256	
4	398.6000	-4.27	-70.08	-74.35	-57.00	-17.35	peak	100	354	
5	566.4100	-2.32	-71.93	-74.25	-57.00	-17.25	peak	100	281	
6	998.0600	3.35	-74.75	-71.40	-57.00	-14.40	peak	100	293	

Spurious Emissions, TX Mode, 1-12.75G

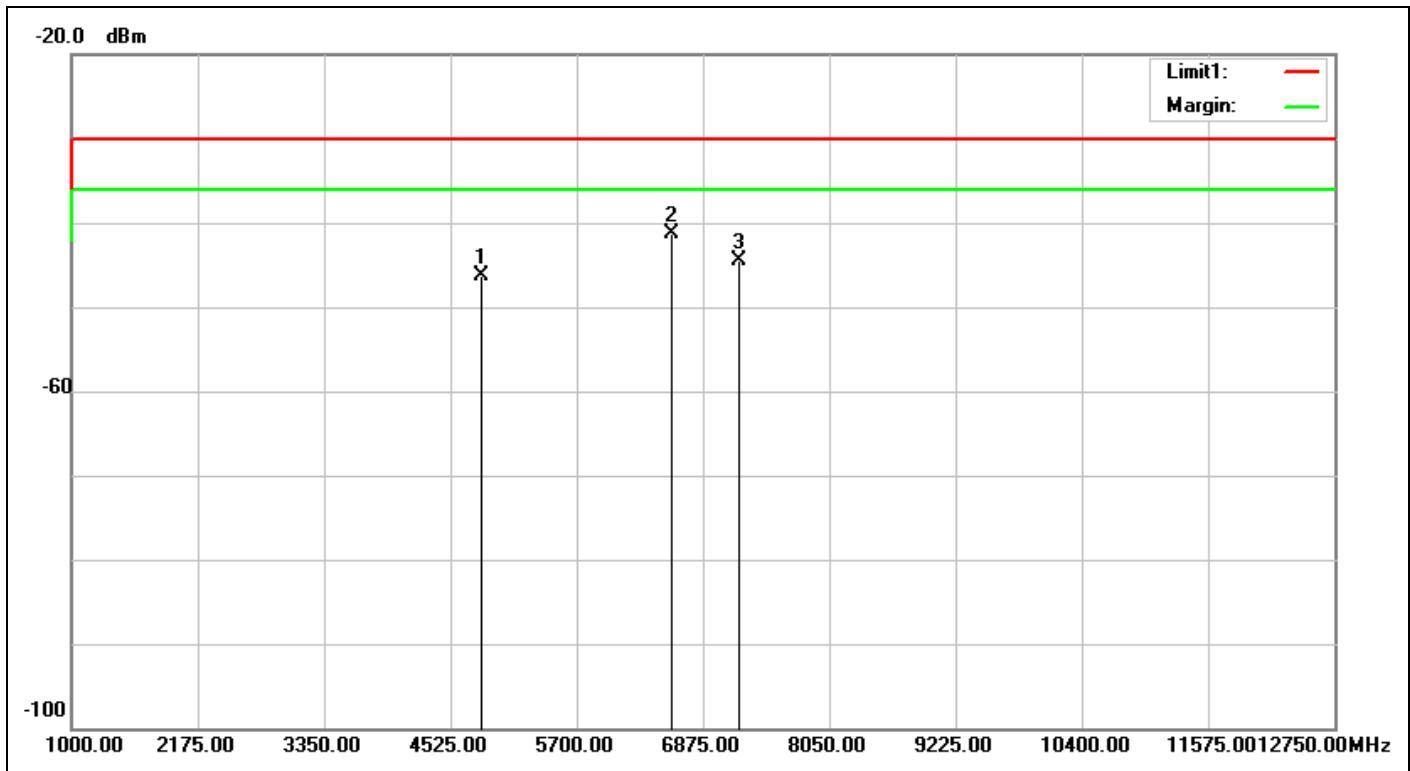


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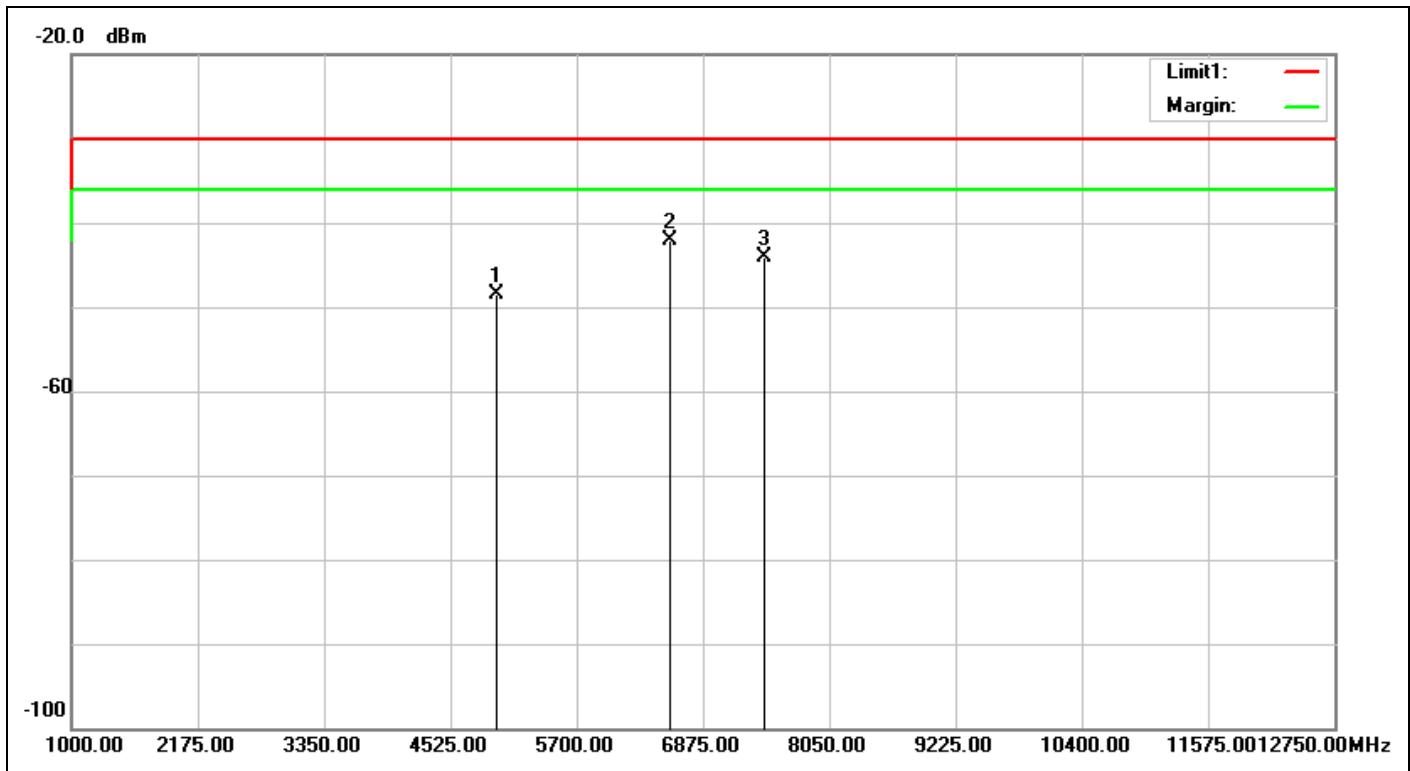
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:40:18
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.54	-55.49	-44.95	-30.00	-14.95	peak		0	
2	5300.500	13.07	-55.36	-42.29	-30.00	-12.29	peak	100	168	
3	7206.000	18.67	-63.16	-44.49	-30.00	-14.49	peak		0	



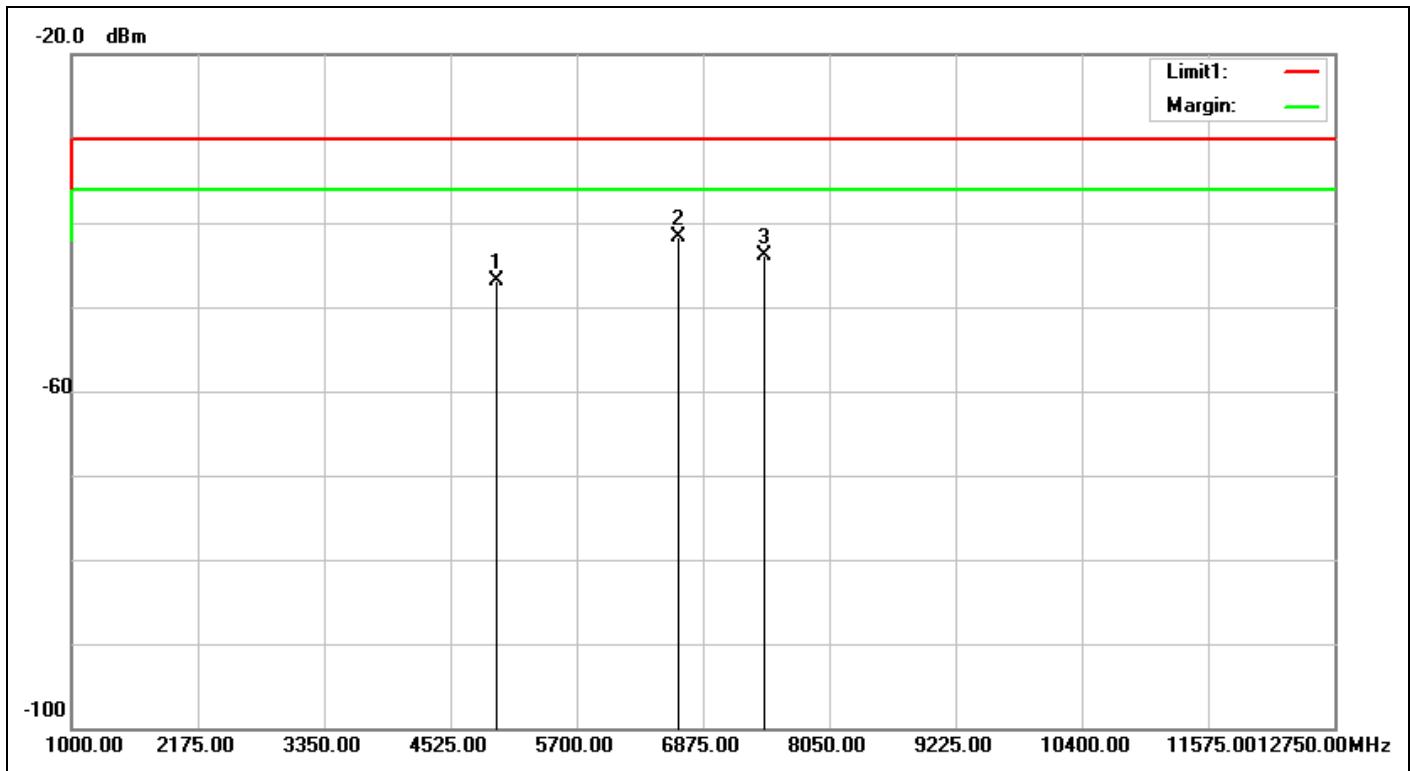
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 21:41:20
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.63	-56.86	-46.23	-30.00	-16.23	peak			
2	6581.250	20.18	-61.43	-41.25	-30.00	-11.25	peak	100	276	
3	7206.000	18.66	-63.18	-44.52	-30.00	-14.52	peak			



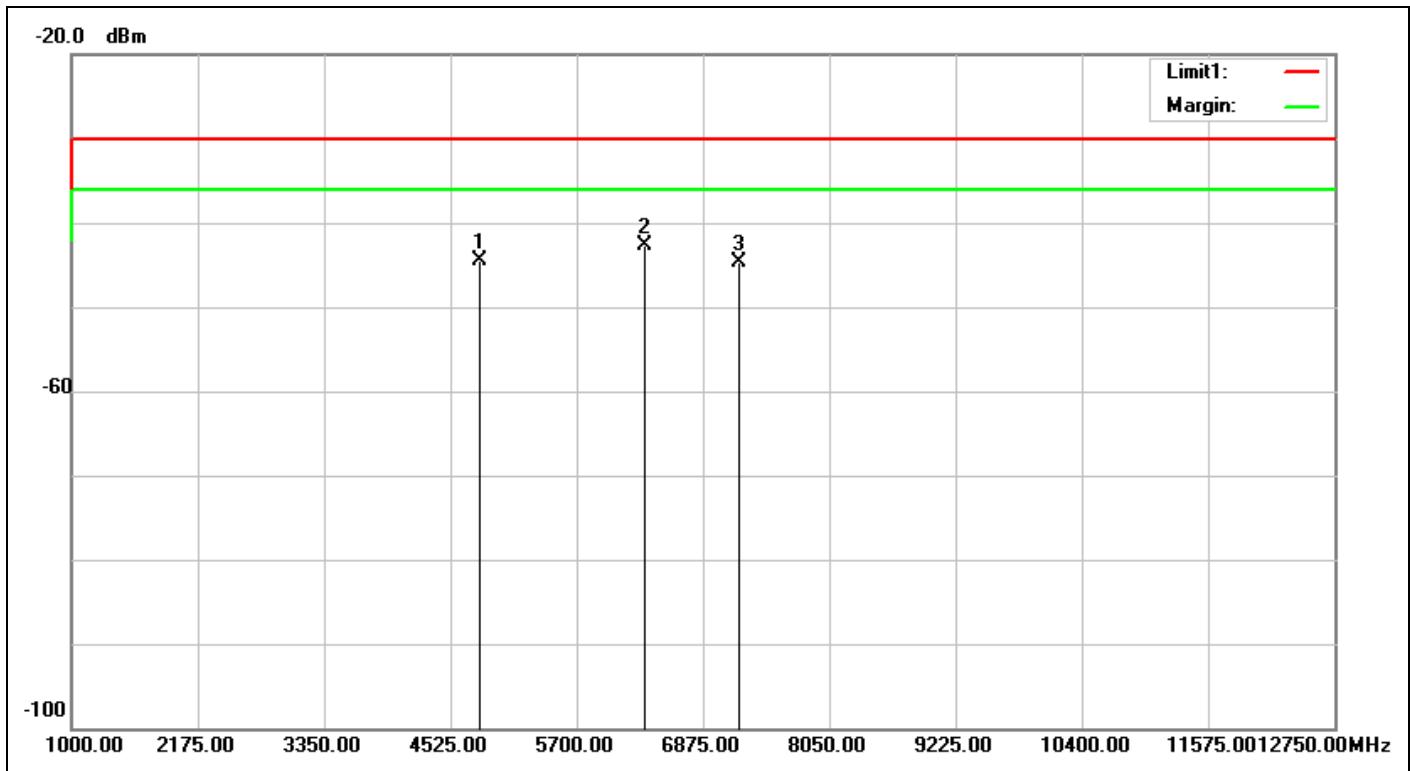
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:44:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.78	-59.25	-48.47	-30.00	-18.47	peak			
2	6569.500	20.02	-62.07	-42.05	-30.00	-12.05	peak	100	274	
3	7440.000	19.48	-63.56	-44.08	-30.00	-14.08	peak			



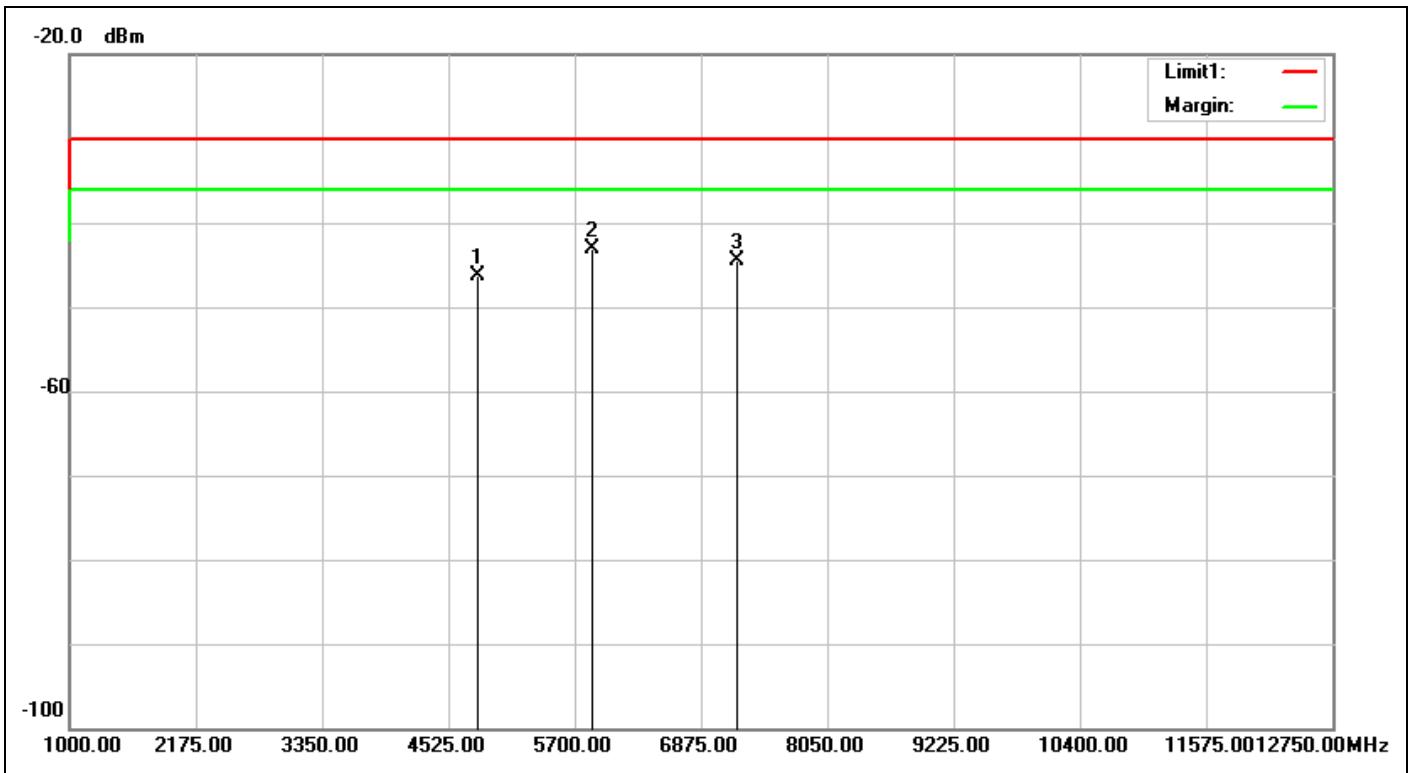
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 21:45:33
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.82	-57.81	-46.99	-30.00	-16.99	peak			
2	6640.000	19.88	-61.61	-41.73	-30.00	-11.73	peak	100	131	
3	7440.000	19.34	-63.27	-43.93	-30.00	-13.93	peak			



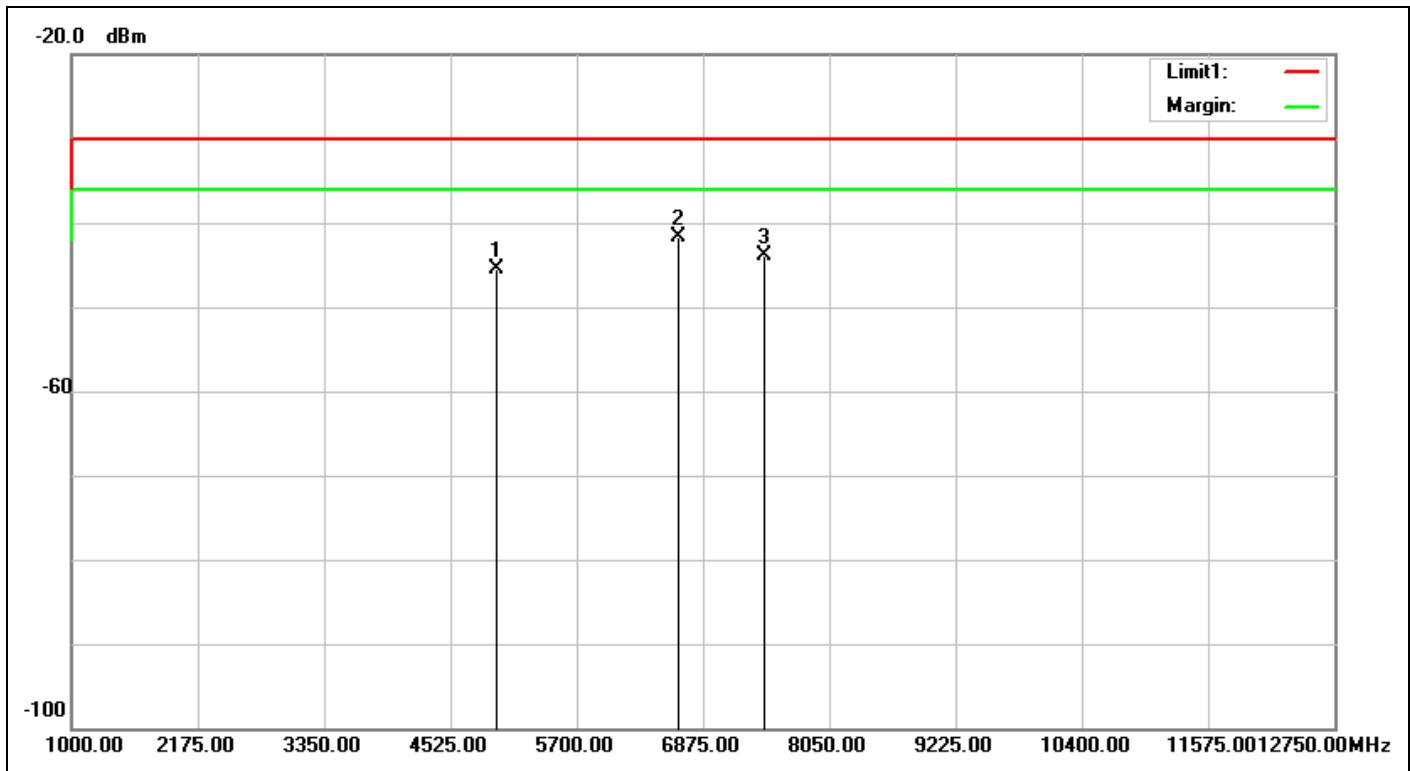
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:48:20
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.54	-55.01	-44.47	-30.00	-14.47	peak			
2	6334.500	19.27	-61.99	-42.72	-30.00	-12.72	peak	100	109	
3	7206.000	18.67	-63.29	-44.62	-30.00	-14.62	peak			



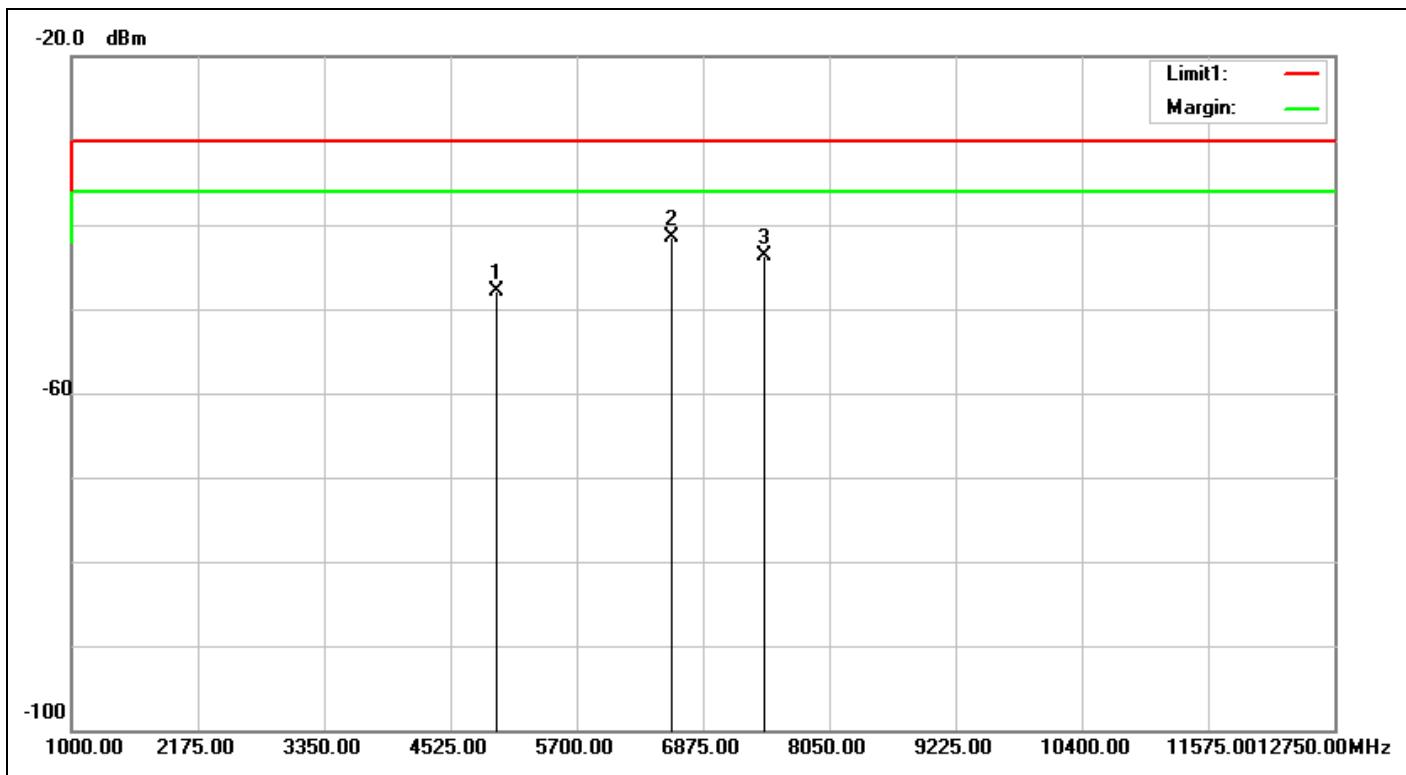
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 21:49:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.63	-56.94	-46.31	-30.00	-16.31	peak			
2	5864.500	16.31	-59.39	-43.08	-30.00	-13.08	peak	100	285	
3	7206.000	18.66	-63.15	-44.49	-30.00	-14.49	peak			



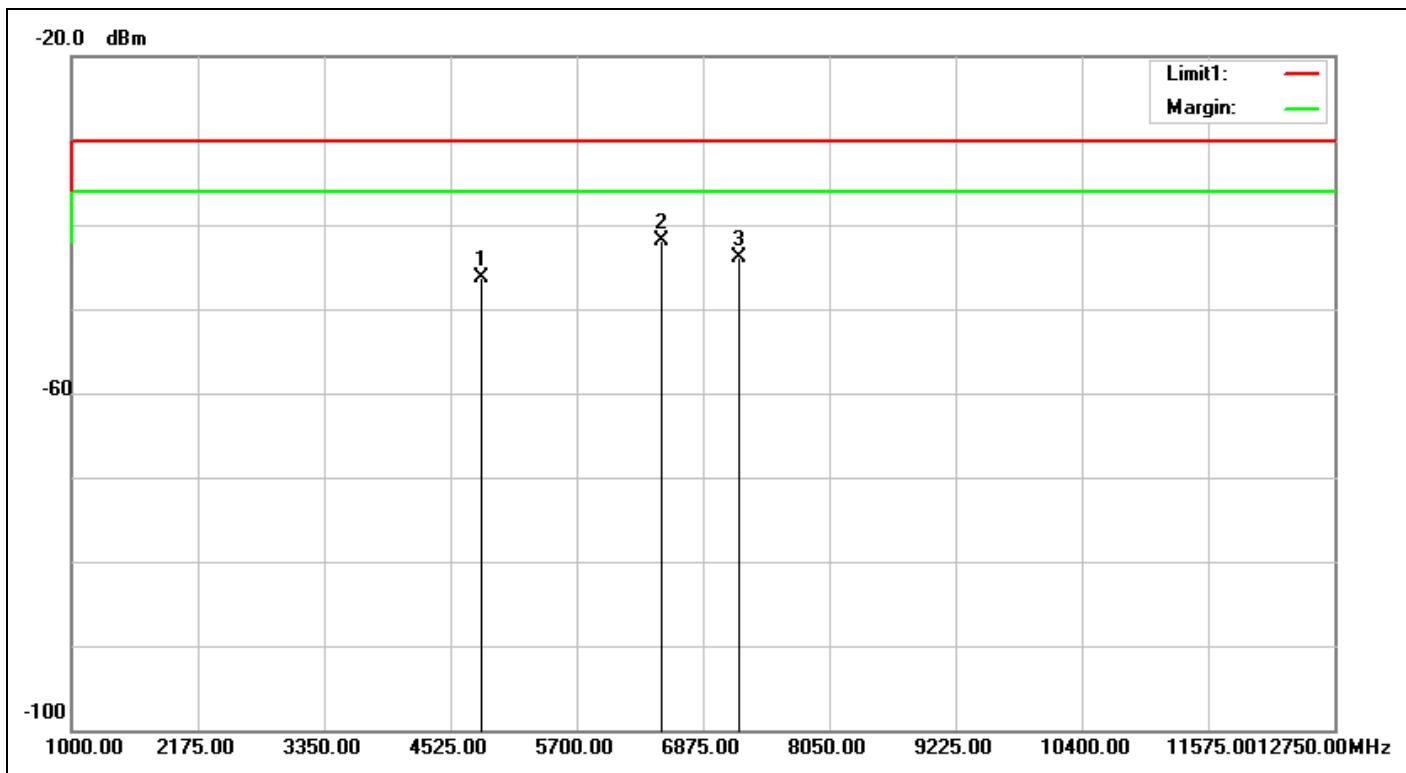
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:51:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.78	-56.20	-45.42	-30.00	-15.42	peak	100	126	
2	6640.000	19.69	-61.36	-41.67	-30.00	-11.67	peak	100	184	
3	7440.000	19.48	-63.42	-43.94	-30.00	-13.94	peak			



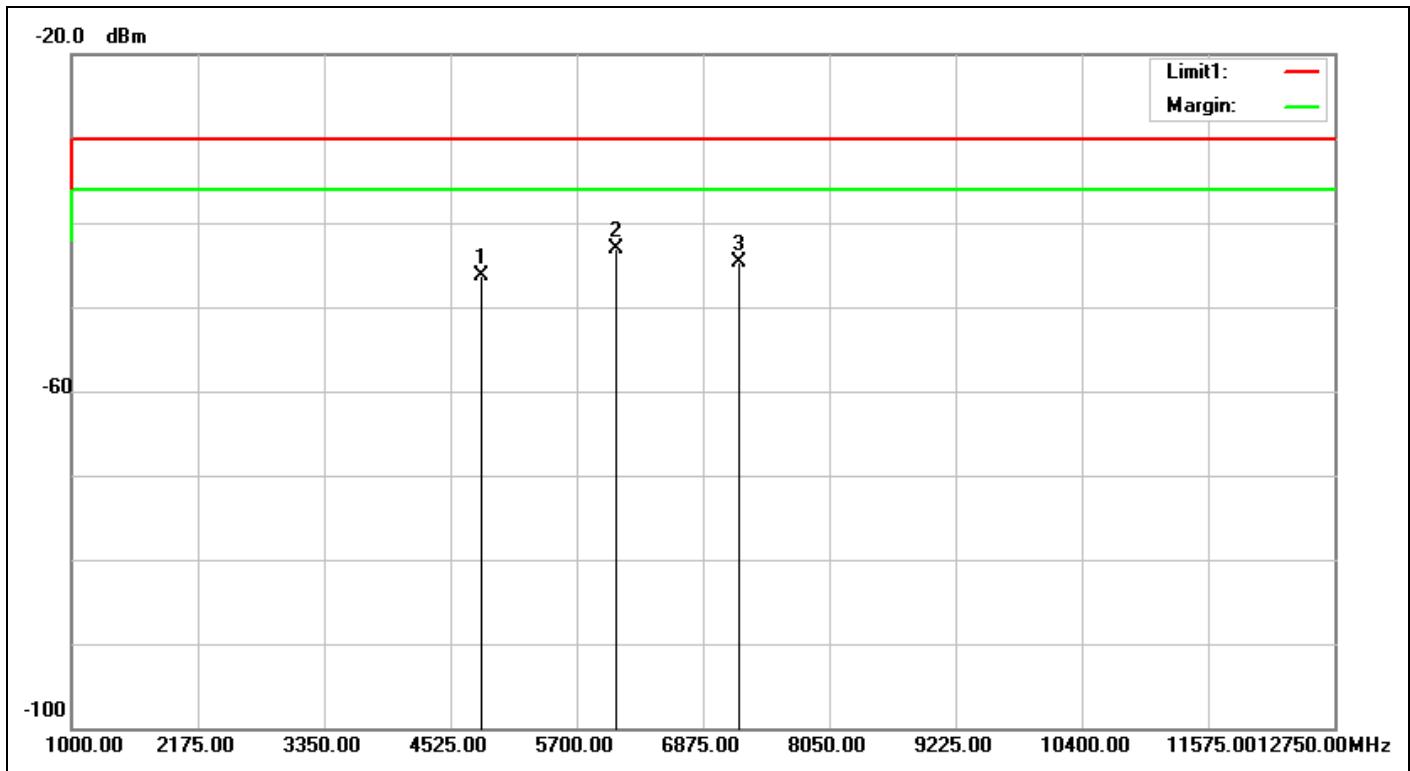
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Test item:	Radiation Emission	Test Time:	2015/9/4 21:52:28
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.82	-58.74	-47.92	-30.00	-17.92	peak			
2	6581.250	20.18	-61.69	-41.51	-30.00	-11.51	peak	100	217	
3	7440.000	19.34	-63.12	-43.78	-30.00	-13.78	peak			



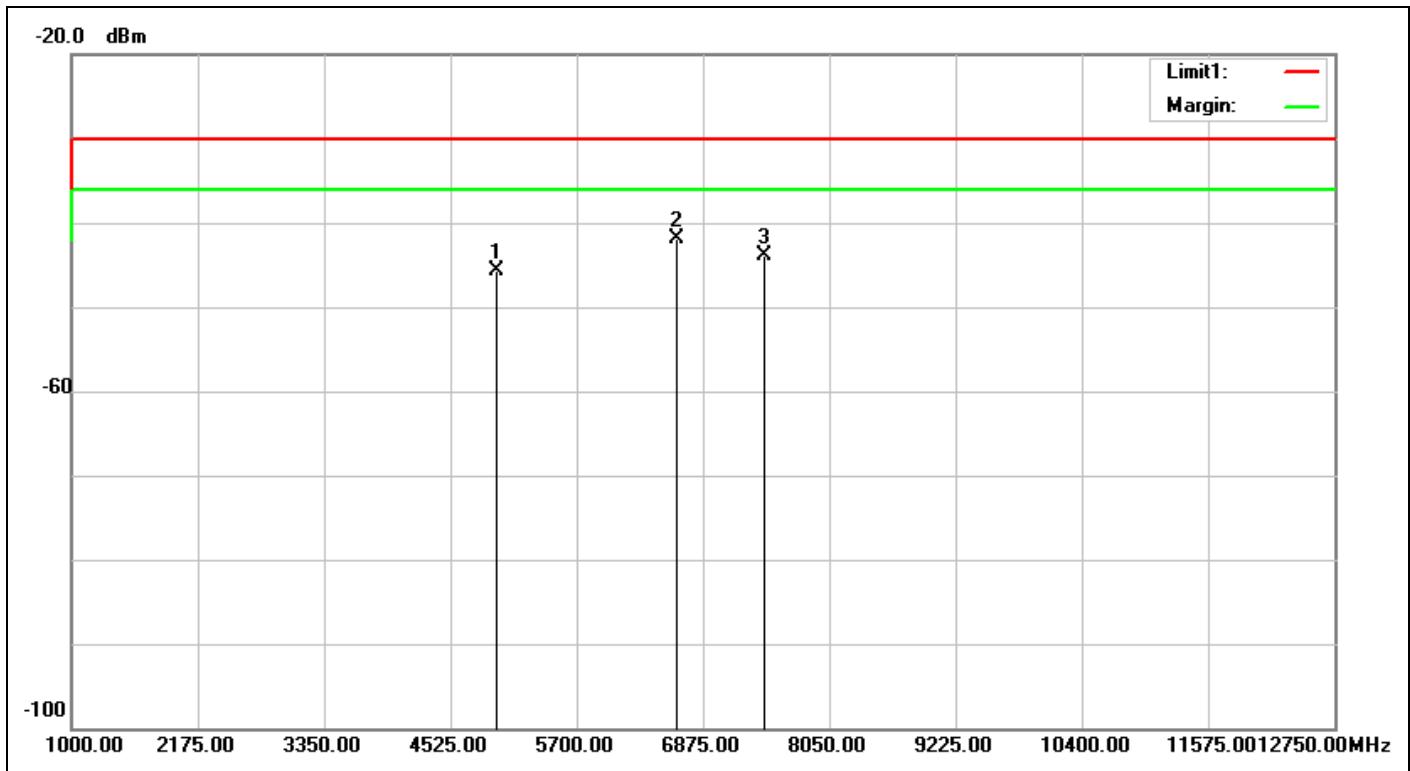
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:55:53
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.54	-56.81	-46.27	-30.00	-16.27	peak			
2	6487.250	20.28	-62.12	-41.84	-30.00	-11.84	peak	100	23	
3	7206.000	18.67	-62.52	-43.85	-30.00	-13.85	peak			



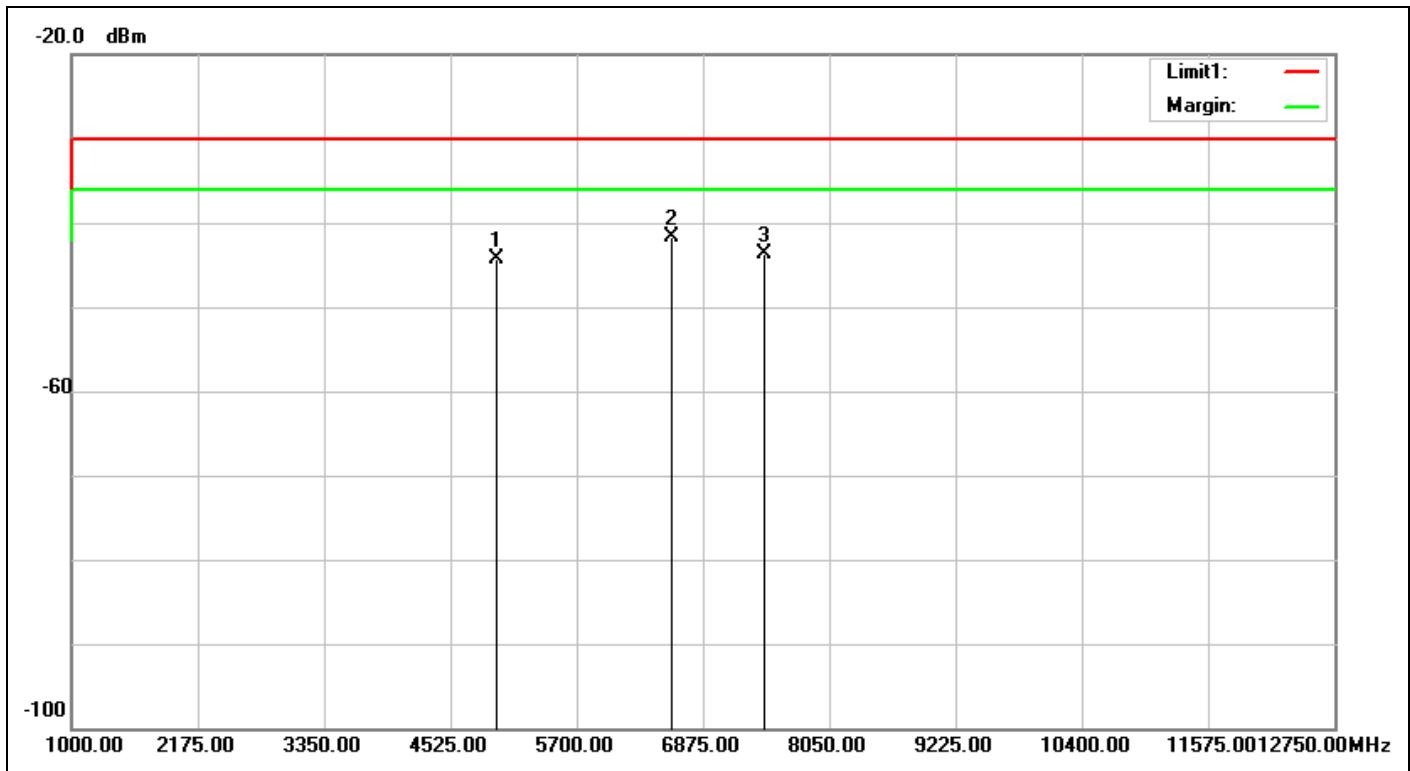
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Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 21:56:55
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	10.63	-57.01	-46.38	-30.00	-16.38	peak			
2	6064.250	17.35	-60.42	-43.07	-30.00	-13.07	peak	100	270	
3	7206.000	18.66	-63.43	-44.77	-30.00	-14.77	peak			



Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/4 21:58:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.78	-56.51	-45.73	-30.00	-15.73	peak	100	31	
2	6628.250	19.74	-61.64	-41.90	-30.00	-11.90	peak	100	221	
3	7440.000	19.48	-63.34	-43.86	-30.00	-13.86	peak			



Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/4 22:00:01
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	10.82	-55.19	-44.37	-30.00	-14.37	peak	100	0	
2	6581.250	20.18	-61.85	-41.67	-30.00	-11.67	peak	100	253	
3	7440.000	19.34	-63.01	-43.67	-30.00	-13.67	peak			

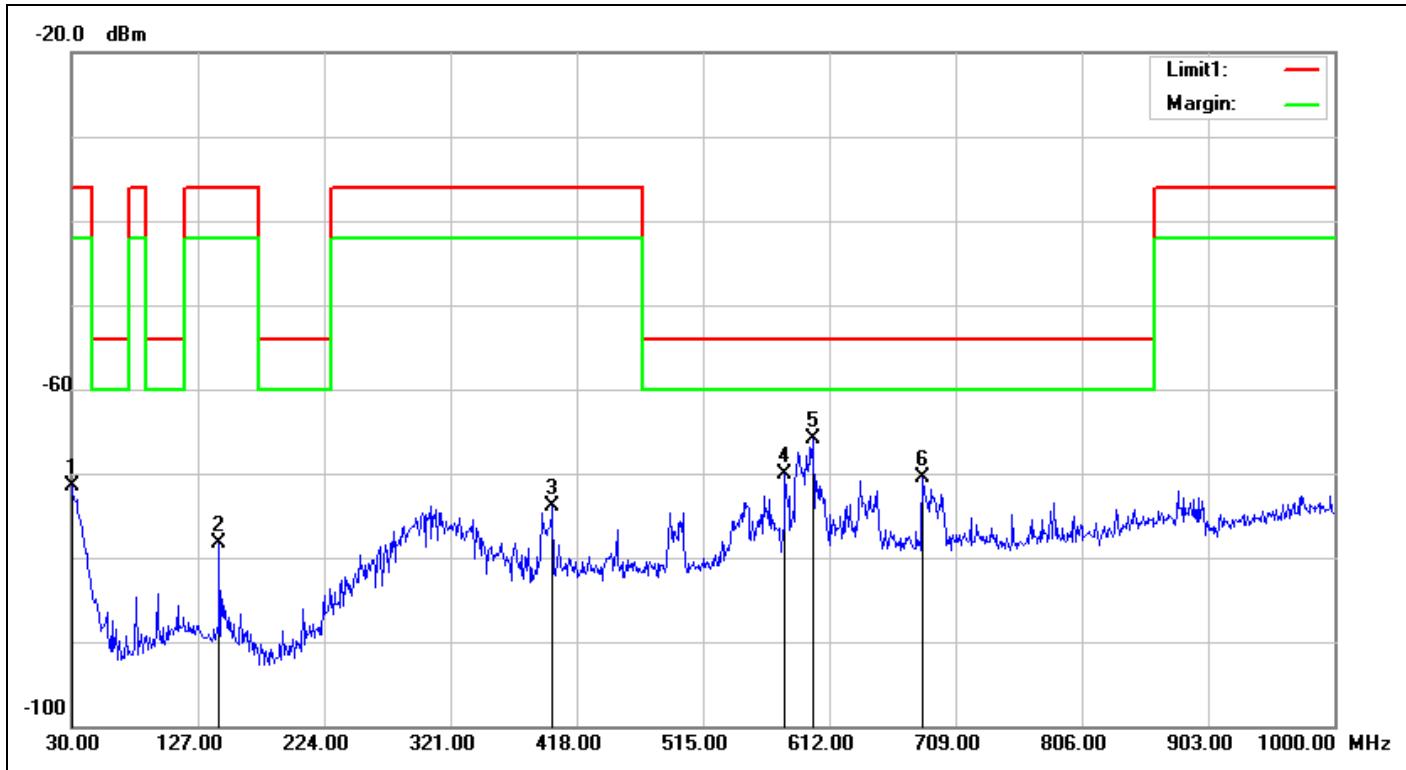
Spurious Emissions, TX Mode, 30M-1G



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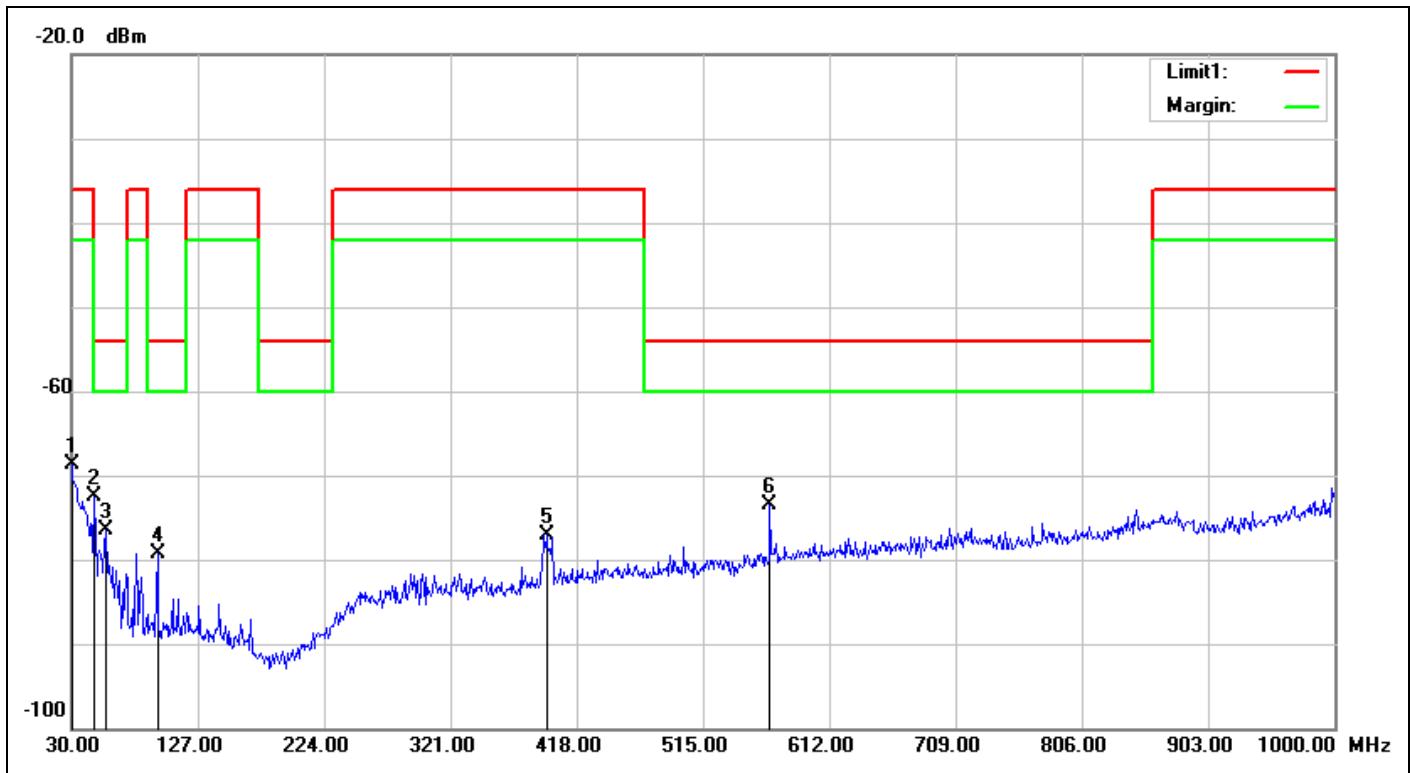
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Tel:+886-2172-7000 fax:+886-2528-0018



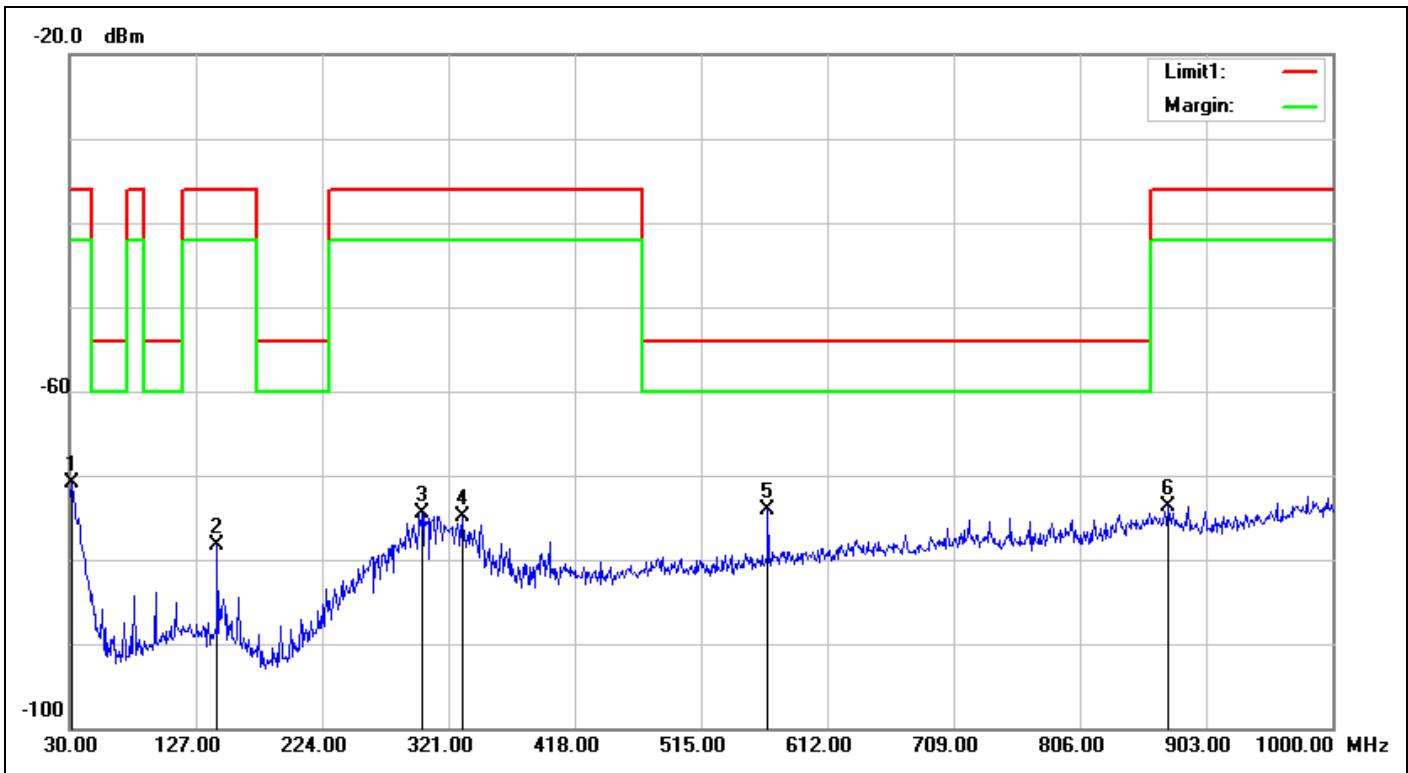
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:24:12
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.38	-71.51	-36.00	-35.51	peak	100	67	
2	143.4900	-11.14	-67.09	-78.23	-36.00	-42.23	peak	100	201	
3	399.5700	-4.24	-69.68	-73.92	-36.00	-37.92	peak	100	251	
4	578.0500	-2.11	-67.99	-70.10	-54.00	-16.10	peak	100	190	
5	599.3900	-1.82	-64.16	-65.98	-54.00	-11.98	peak	100	223	
6	683.7800	-1.20	-69.35	-70.55	-54.00	-16.55	peak	100	221	



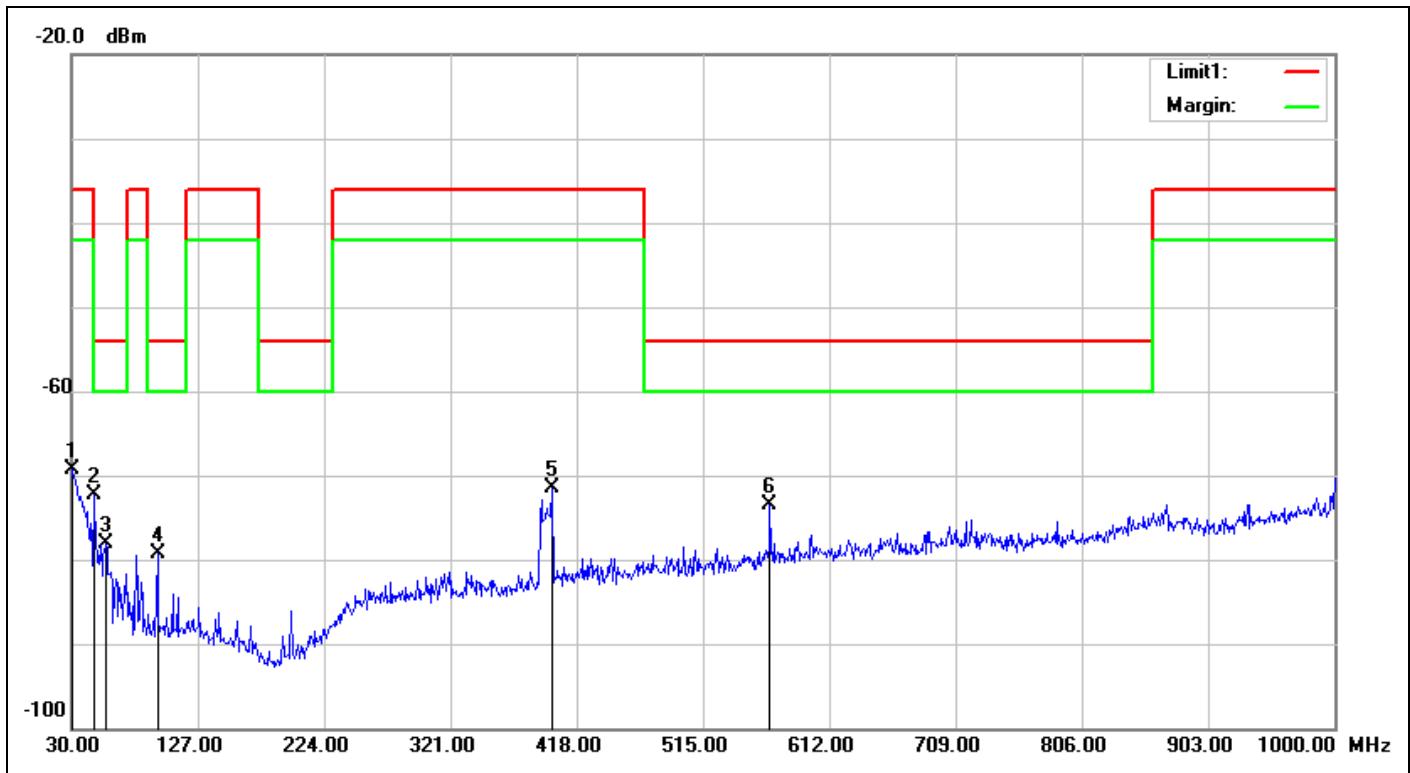
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:25:15
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-75.66	-68.79	-36.00	-32.79	peak	100	178	
2	47.4600	-6.91	-65.51	-72.42	-54.00	-18.42	peak	100	1	
3	56.1900	-11.97	-64.62	-76.59	-54.00	-22.59	peak	100	81	
4	95.9599	-11.51	-67.71	-79.22	-54.00	-25.22	peak	100	0	
5	394.7200	-4.42	-72.60	-77.02	-36.00	-41.02	peak	100	201	
6	566.4100	-2.32	-71.18	-73.50	-54.00	-19.50	peak	100	167	



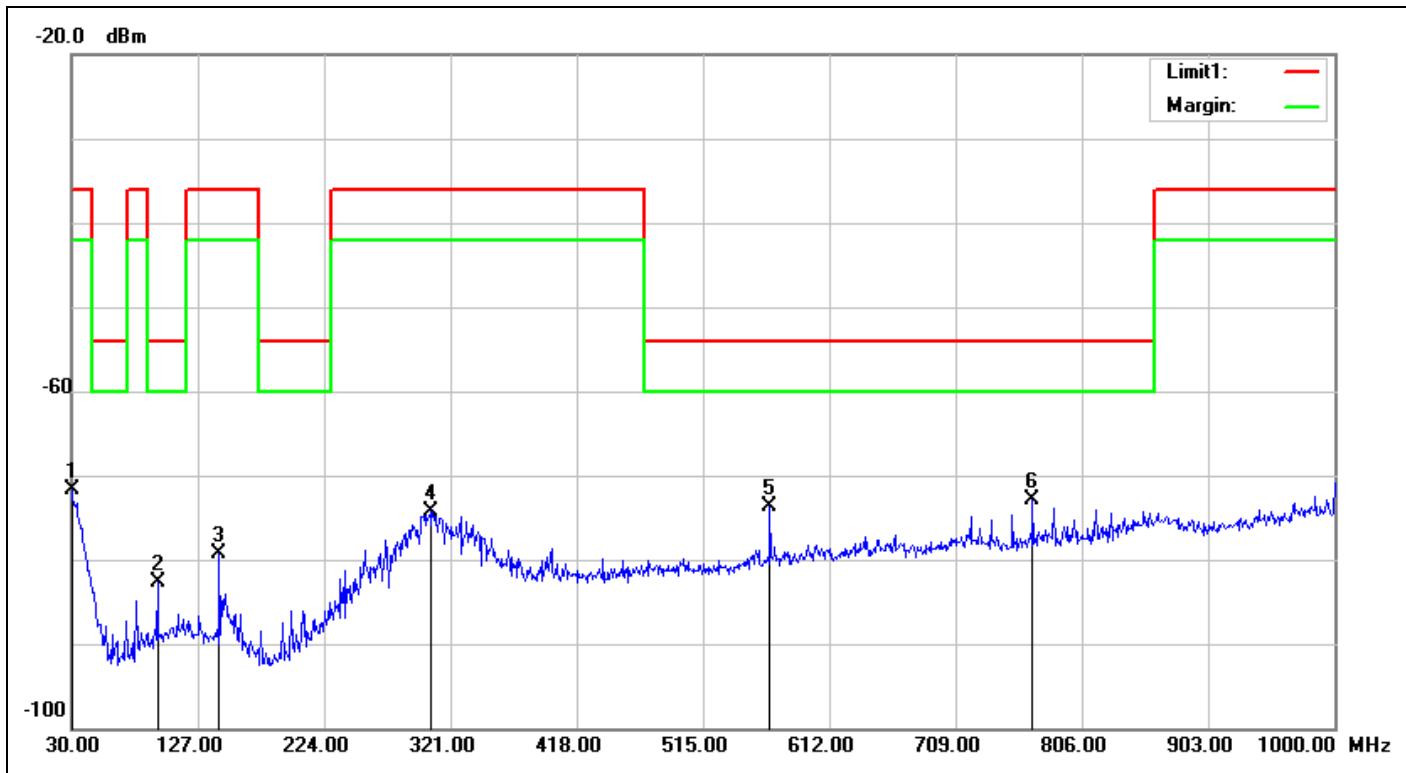
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:27:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31.9400	5.62	-76.57	-70.95	-36.00	-34.95	peak	100	271	
2	143.4900	-11.14	-67.06	-78.20	-36.00	-42.20	peak	100	154	
3	300.6300	-6.10	-68.46	-74.56	-36.00	-38.56	peak	100	221	
4	331.6700	-5.69	-69.19	-74.88	-36.00	-38.88	peak	100	307	
5	566.4100	-2.32	-71.81	-74.13	-54.00	-20.13	peak	100	204	
6	873.9000	1.92	-75.52	-73.60	-36.00	-37.60	peak	100	229	



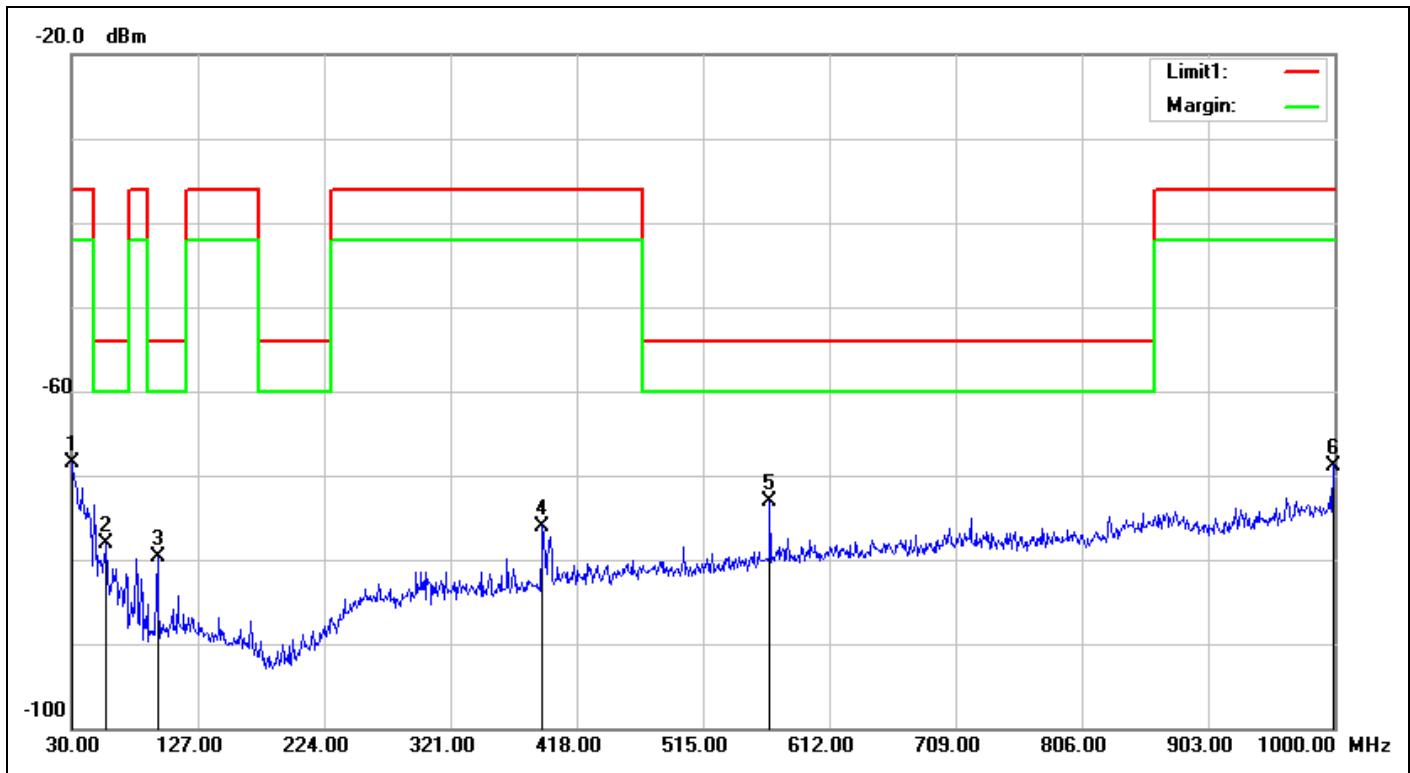
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:28:25
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-75.52	-69.27	-36.00	-33.27	peak	100	1	
2	47.4600	-6.91	-65.35	-72.26	-54.00	-18.26	peak	100	64	
3	56.1900	-11.97	-66.21	-78.18	-54.00	-24.18	peak	100	187	
4	95.9600	-11.51	-67.82	-79.33	-54.00	-25.33	peak	100	360	
5	399.5700	-4.24	-67.23	-71.47	-36.00	-35.47	peak	100	220	
6	566.4100	-2.32	-71.09	-73.41	-54.00	-19.41	peak	100	281	



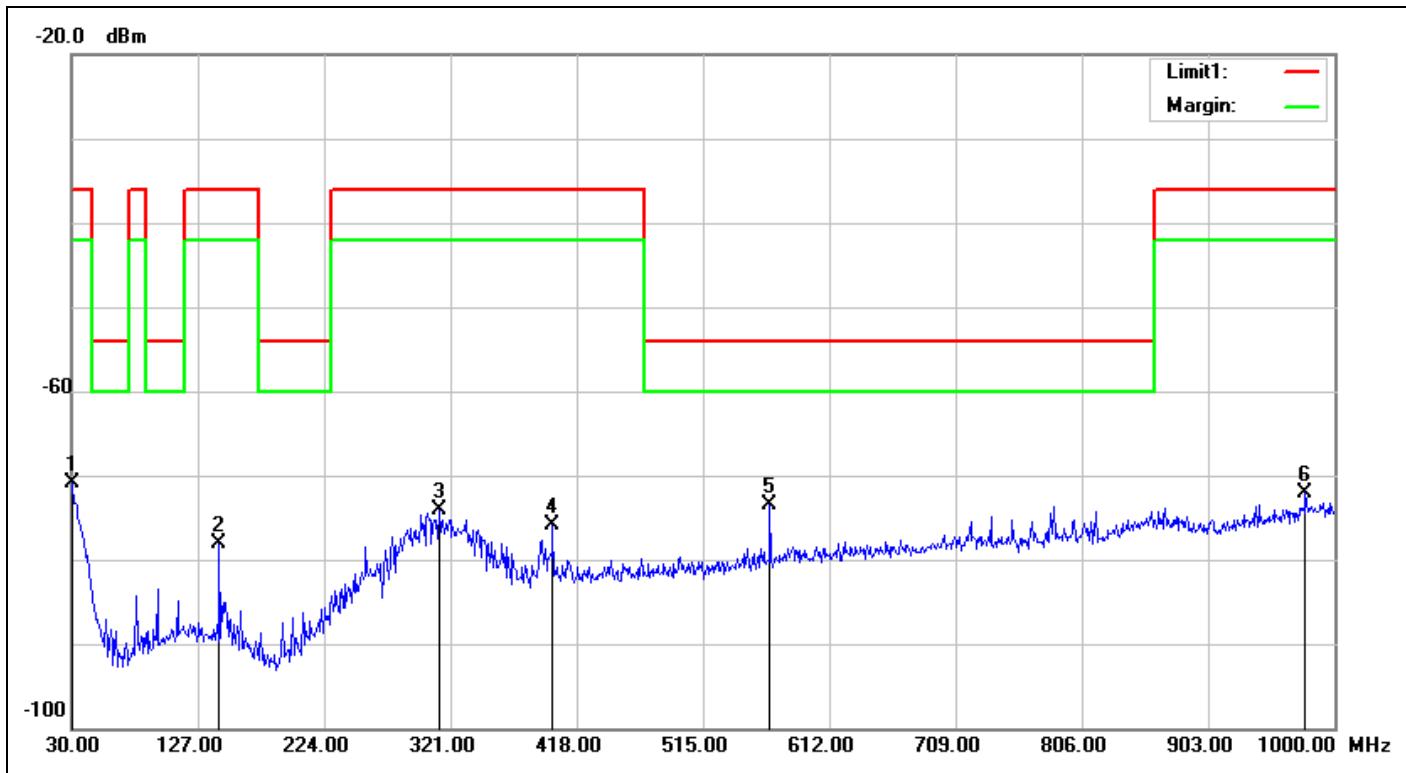
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:29:57
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.64	-71.77	-36.00	-35.77	peak	100	0	
2	95.9599	-11.51	-71.27	-82.78	-54.00	-28.78	peak	100	62	
3	143.4900	-11.14	-68.06	-79.20	-36.00	-43.20	peak	100	215	
4	305.4800	-6.07	-68.27	-74.34	-36.00	-38.34	peak	100	226	
5	566.4100	-2.32	-71.31	-73.63	-54.00	-19.63	peak	100	204	
6	768.1700	-0.54	-72.28	-72.82	-54.00	-18.82	peak	100	316	



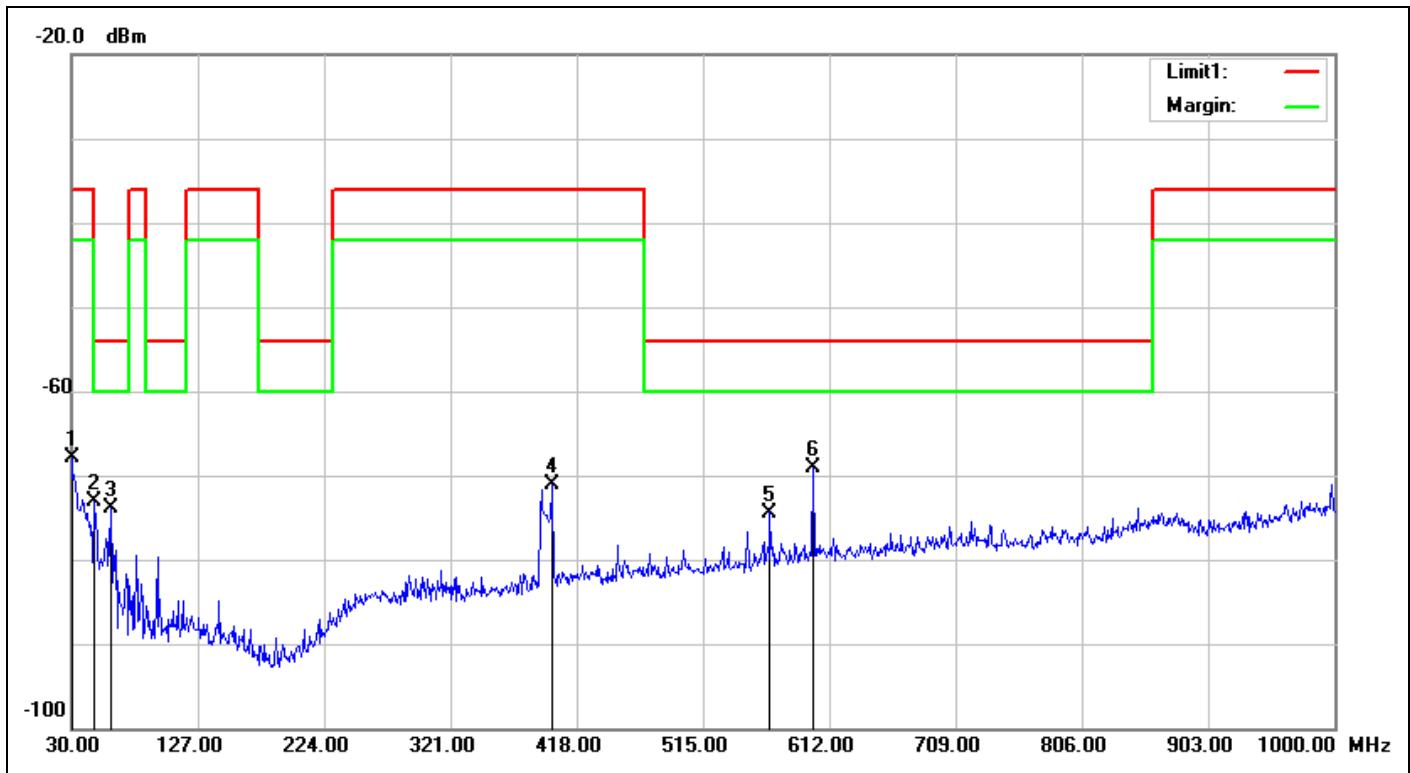
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:31:00
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-74.81	-68.56	-36.00	-32.56	peak	100	89	
2	56.1900	-11.97	-66.20	-78.17	-54.00	-24.17	peak	100	87	
3	95.9600	-11.51	-68.22	-79.73	-54.00	-25.73	peak	100	306	
4	391.8100	-4.51	-71.49	-76.00	-36.00	-40.00	peak	100	190	
5	566.4100	-2.32	-70.84	-73.16	-54.00	-19.16	peak	100	170	
6	999.0300	3.35	-72.15	-68.80	-36.00	-32.80	peak	100	298	



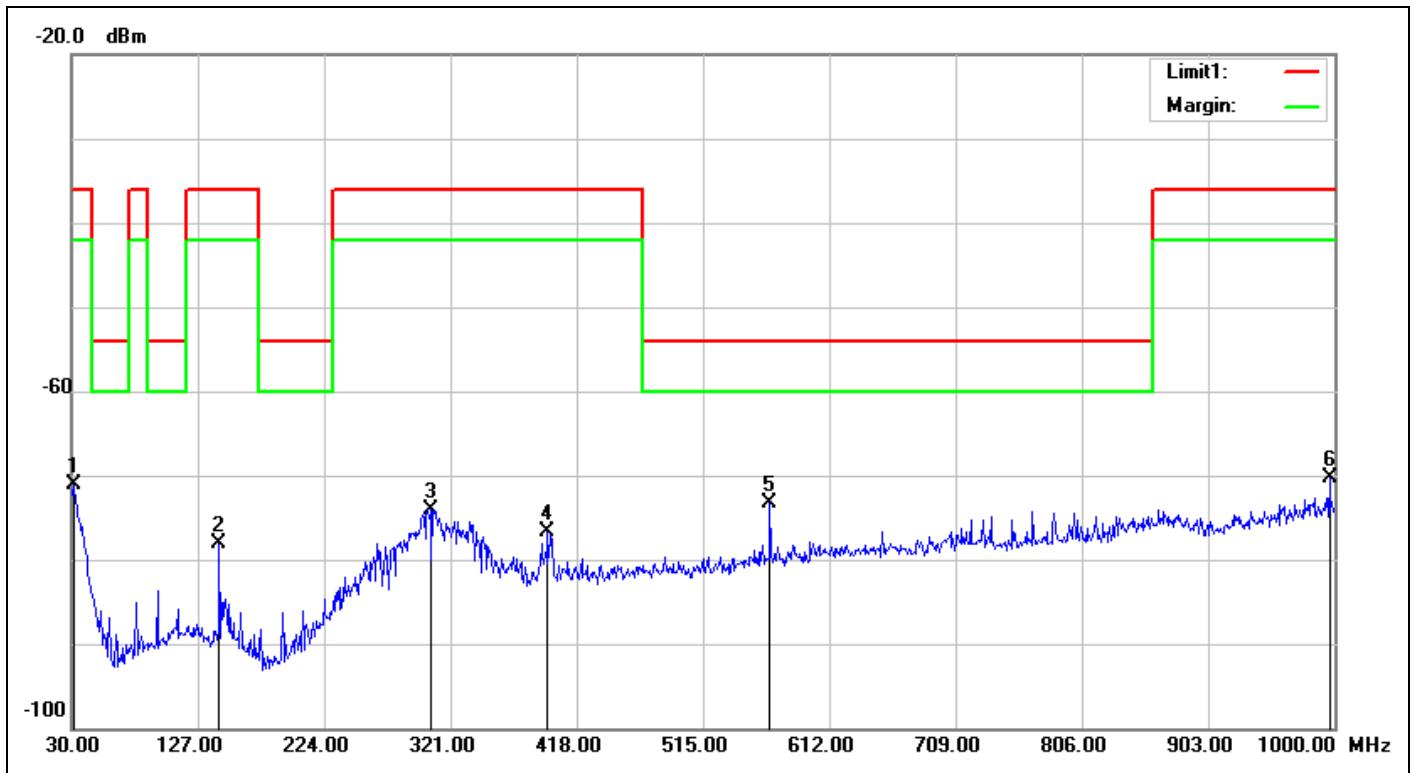
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:32:29
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.9700	6.25	-77.12	-70.87	-36.00	-34.87	peak	100	28	
2	143.4900	-11.14	-66.94	-78.08	-36.00	-42.08	peak	100	206	
3	312.2700	-6.00	-68.18	-74.18	-36.00	-38.18	peak	100	168	
4	399.5700	-4.24	-71.63	-75.87	-36.00	-39.87	peak	100	358	
5	566.4100	-2.32	-71.26	-73.58	-54.00	-19.58	peak	100	196	
6	977.6900	3.57	-75.64	-72.07	-36.00	-36.07	peak	100	259	



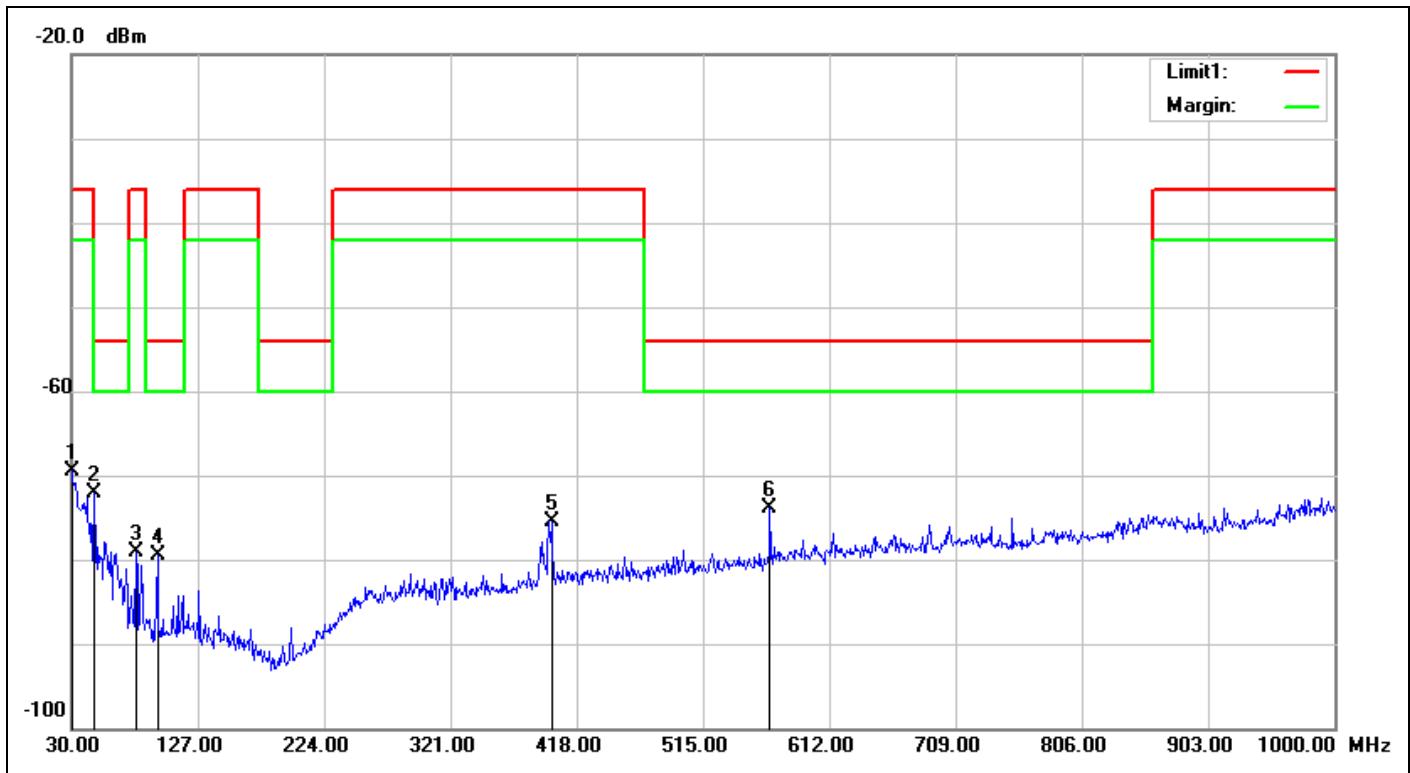
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:33:31
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	2DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-74.72	-67.85	-36.00	-31.85	peak	100	122	
2	47.4600	-6.91	-66.15	-73.06	-54.00	-19.06	peak	100	72	
3	60.0700	-13.63	-60.35	-73.98	-54.00	-19.98	peak	100	184	
4	399.5700	-4.24	-66.81	-71.05	-36.00	-35.05	peak	100	209	
5	566.4100	-2.32	-72.08	-74.40	-54.00	-20.40	peak	100	170	
6	599.3900	-1.82	-67.35	-69.17	-54.00	-15.17	peak	100	209	



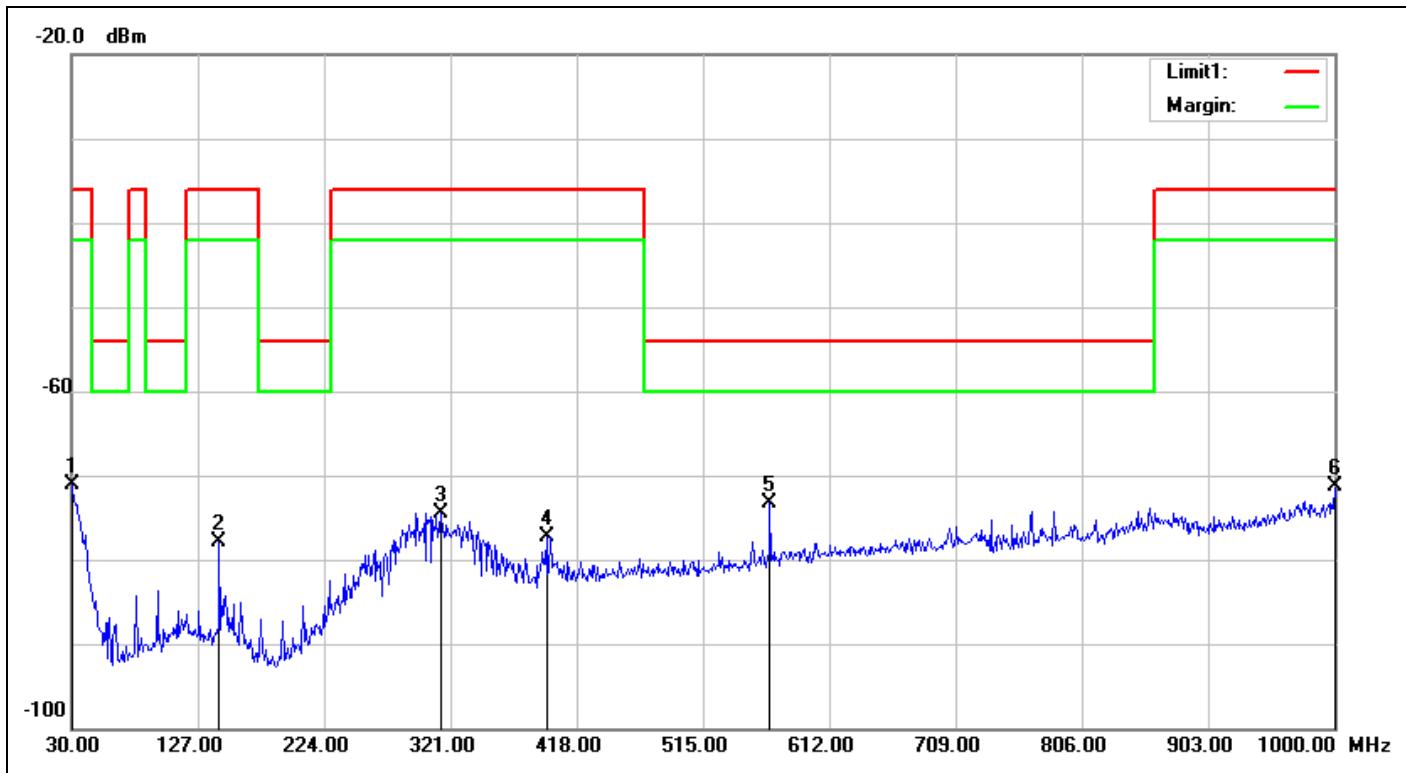
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:35:10
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	31.9400	5.62	-76.72	-71.10	-36.00	-35.10	peak	100	118	
2	143.4900	-11.14	-66.99	-78.13	-36.00	-42.13	peak	100	157	
3	305.4800	-6.07	-67.94	-74.01	-36.00	-38.01	peak	100	140	
4	395.6900	-4.37	-72.41	-76.78	-36.00	-40.78	peak	100	263	
5	566.4100	-2.32	-70.99	-73.31	-54.00	-19.31	peak	100	207	
6	996.1200	3.39	-73.67	-70.28	-36.00	-34.28	peak	100	73	



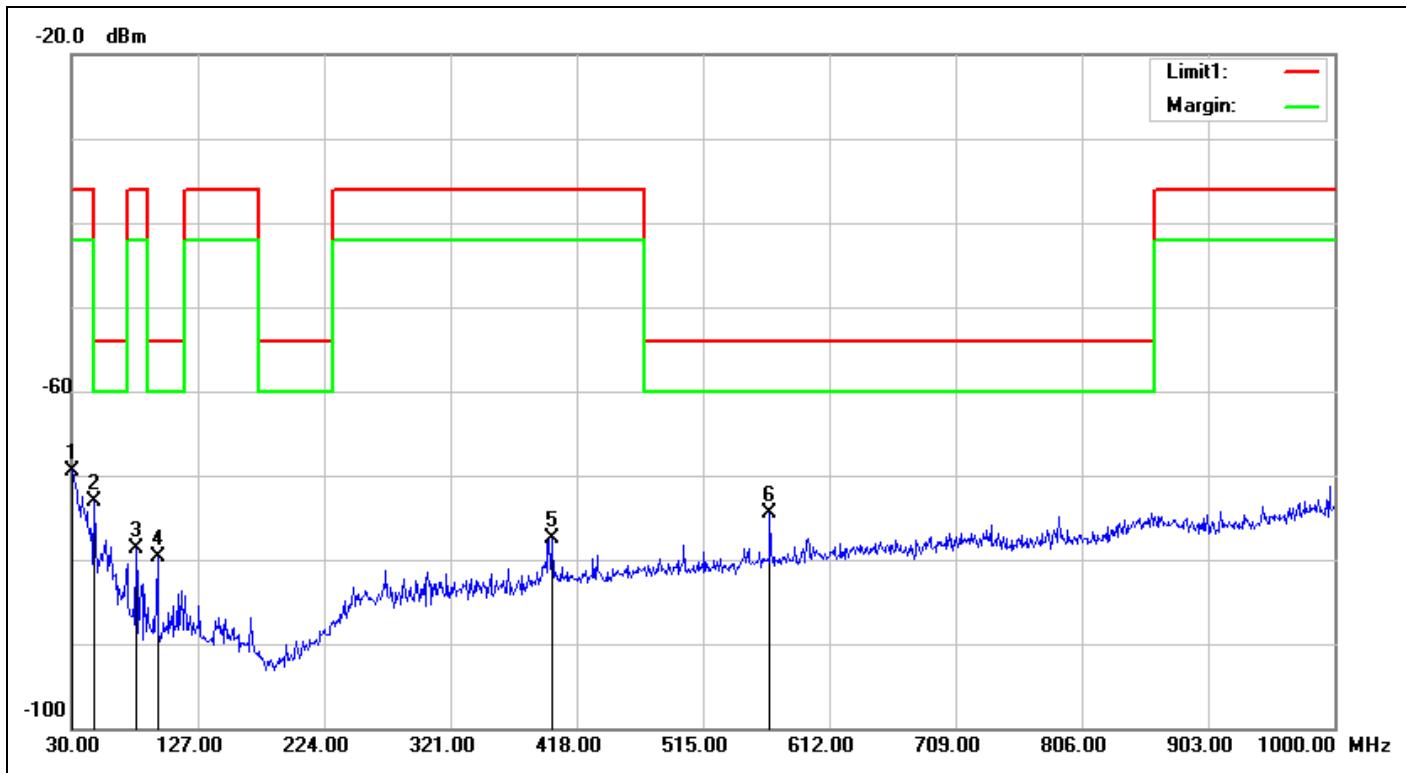
Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:36:12
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-76.35	-69.48	-36.00	-33.48	peak	100	112	
2	47.4600	-6.91	-65.25	-72.16	-54.00	-18.16	peak	100	346	
3	79.4700	-12.91	-66.10	-79.01	-36.00	-43.01	peak	100	270	
4	95.9600	-11.51	-68.00	-79.51	-54.00	-25.51	peak	100	315	
5	398.6000	-4.27	-71.22	-75.49	-36.00	-39.49	peak	100	187	
6	566.4100	-2.32	-71.61	-73.93	-54.00	-19.93	peak	100	179	



Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/5 09:37:45
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-78.00	-71.13	-36.00	-35.13	peak	100	126	
2	143.4900	-11.14	-66.73	-77.87	-36.00	-41.87	peak	100	221	
3	313.2400	-5.99	-68.42	-74.41	-36.00	-38.41	peak	100	134	
4	394.7200	-4.42	-72.84	-77.26	-36.00	-41.26	peak	100	240	
5	566.4100	-2.32	-70.99	-73.31	-54.00	-19.31	peak	100	207	
6	1000.0000	3.32	-74.57	-71.25	-36.00	-35.25	peak	100	98	



Service No.:	114039665-CE	Test Distance:	3m
Test Standard:	EN 300 328 1.8.1_Tx	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/5 09:38:48
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	BM78	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB)	Reading (dBm)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	6.87	-76.29	-69.42	-36.00	-33.42	peak	100	195	
2	47.4600	-6.91	-66.27	-73.18	-54.00	-19.18	peak	100	346	
3	79.4700	-12.91	-65.86	-78.77	-36.00	-42.77	peak	100	321	
4	95.9600	-11.51	-68.26	-79.77	-54.00	-25.77	peak	100	23	
5	398.6000	-4.27	-73.18	-77.45	-36.00	-41.45	peak	100	359	
6	566.4100	-2.32	-72.18	-74.50	-54.00	-20.50	peak	100	176	