

APPLICATION FOR CERTIFICATION

On Behalf of

i.Tech Dynamic Limited

i.Tech MusicClip 803

Model Number: C51-B803-XX

FCC ID: RKIC51-B803-XX

Prepared for : i.Tech Dynamic Limited
5/F Harbourfront Landmark, 11 Wan Hoi Street
Hung Hom , Kowloon Hong Kong

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F09242
Date of Test : Nov.18, 2009~Jan.11, 2010
Date of Report : Jan.11, 2010

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TEST REPORT CERTIFICATION

Applicant : i.Tech Dynamic Limited
Manufacturer : SHENZHEN FEREX ELECTRONICS CO., LTD
EUT Description : i.Tech MusicClip 803
FCC ID : RKIC51-B803-XX
(A) MODEL NO. : C51-B803-XX
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : DC 3.7V
(D) TEST VOLTAGE : DC 3.7V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2008

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test: Nov.18, 2009~ Jan.11, 2010

Prepared by:

Edie Huang
Edie Huang / Assistant

Reviewer:

Jamy Yu
Jamy Yu / Senior Engineer

Approved & Authorized Signer:

Ken Lu / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

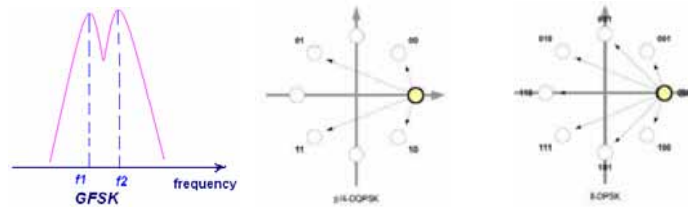
The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	N/A
Radiated Emission Test	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4: 2003 DA 00-705	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 DA 00-705	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) DA 00-705	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	: i.Tech MusicClip 803
Model Number	: C51-B803-XX
FCC ID	: RKIC51-B803-XX
Operation frequency	: 2.402GHz-----2.480GHz
Operation Channel	: 79 Channels
Radio Technology	: Bluetooth V2.1+EDR
Modulation Technology	: GFSK, $\pi/4$ DQPSK, 8- DPSK
Output power	: 2.24dBm (maximum measured)
Antenna Assembly Gain	: Integrated antenna with 2.3dBi gain (PK)
Modulation Technology	: GFSK, $\pi/4$ DQPSK, 8- DPSK



Note: As above indicated GFSK is different from $\pi/4$ DQPSK and 8- DPSK. and 8-DPSK is similar with $\pi/4$ DQPSK but more complex, and with the bigger data rate. So all the test were performed with GFSK modulation and 8-DPSK modulation.

Power Supply	: DC 3.7V (Note: New batteries were used for all test)
Applicant	: i.Tech Dynamic Limited 5/F Harbourfront Landmark, 11 Wan Hoi Street Hunghom , Kowloon Hong Kong
Manufacturer	: SHENZHEN FEREX ELECTRONICS CO., LTD BoJuQianNeng, Industrial Park, The Third Industrial District, LiSongLang, GongMing Town, ShenZhen, Guangdong, China
Switching Adapter	: i-Tech M/N: SSA-3P 050050US
USB Cable	: Unshielded, Detachable, 0.3m (with one core)

Earphone 1# : i-Tech
Cable: Unshielded, Detachable, 0.3m

Earphone 2# : i-Tech
Cable: Unshielded, Detachable, 0.6m

Date of Test : Nov.18, 2009~Jan.11, 2010

Date of Receipt : Nov.17, 2009

Sample Type : Prototype production

2.2. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Mar.31, 2009 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	:	Jan. 31, 2007 File on Federal Communication Commission Registration Number: 794232
EMC Lab.	:	Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009 Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2009

2.3. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.40dB
Uncertainty for Radiation Emission test in 3m chamber	3.78 dB (Polarize: V)
	4.20 dB (Polarize: H)
Uncertainty for Conduction Spurious emission test	2.10 dB
Uncertainty for Output power test	0.94 dB
Uncertainty for Temperature and humidity test	2%
	1°C
Uncertainty for Frequency range test	1×10^{-9}
Uncertainty for Bandwidth test	1×10^{-9}
Uncertainty for DC power test	0.042 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (f) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Dec.05,08	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 09	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 09	1 Year
4.	Amplifier	HP	8447D	2648A04738	May.08, 09	1 Year
5.	Bilog Antenna	Schaffner	CBL6111C	2598	Nov.10, 09	1 Year
6.	RF Cable	MIYAZAKI	8D-FB	3# Chamber No.1	May.08, 09	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 09	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A08495	Aug.04,09	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Nov.28, 09	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	271471/4	Nov.28, 09	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	29086/2	Nov.28, 09	1 Year

4.2. Block Diagram of Test Setup

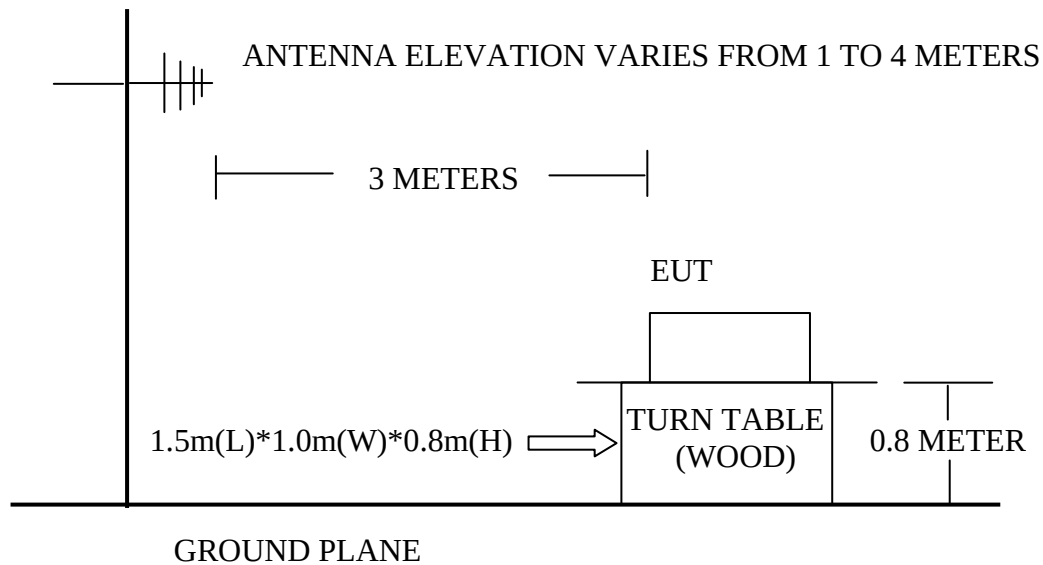
4.2.1. Block diagram of connection between the EUT and simulators



(EUT: i.Tech MusicClip 803)

4.2.2.In Anechoic Chamber

ANTENNA TOWER



4.3.Radiated Emission Limit

4.3.1. 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2.15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2..

4.5.2.Let the EUT worked in test modes (Bluetooth Mode) and test it.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7.Radiated Emission Test Results

PASS.

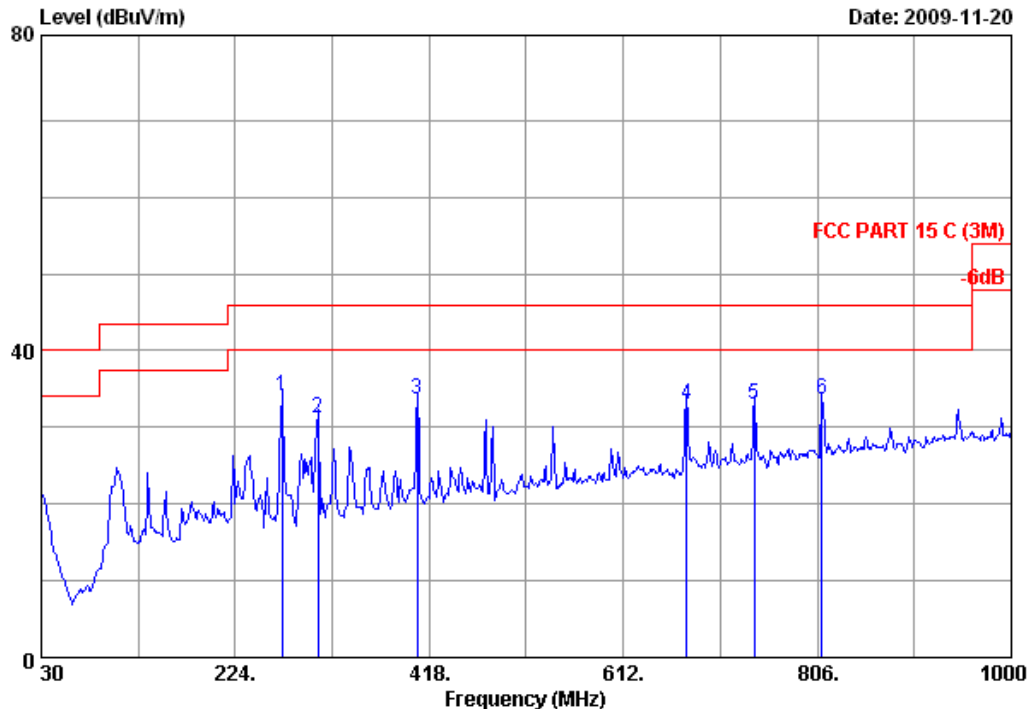
All the emissions from 30MHz to 25 GHz are comply with 15.209 limits

Test Frequency: 30MHz-1000MHz



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Data: 15



Site no. : RF Chamber Data no. : 15
Dis. / Ant. : 3m CBL6111C Ant. pol. : HORIZONTAL
Limit : FCC PART15 C
Env. / Ins. : 24°C/56% Engineer : Power Feng
EUT : i.Tech MusicClip 803 M/N:C51-B803-XX
Power supply : DC 3.7V
Test mode : Bluetooth Mode

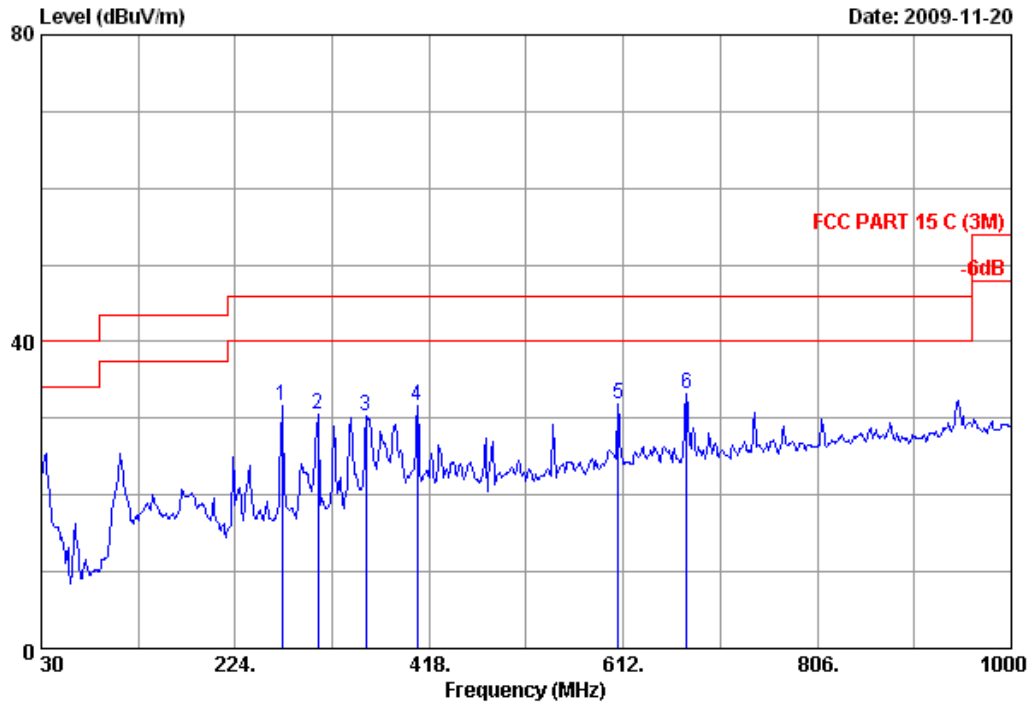
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)		
1 270.560	13.16	1.55	19.33	34.04	46.00	11.96	QP
2 306.450	13.70	1.78	15.78	31.26	46.00	14.74	QP
3 406.360	16.42	1.87	15.34	33.63	46.00	12.37	QP
4 675.050	20.28	2.64	10.12	33.04	46.00	12.96	QP
5 742.950	21.42	2.81	8.86	33.09	46.00	12.91	QP
6 810.850	21.87	3.02	8.75	33.64	46.00	12.36	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 16



Site no. : RF Chamber	Data no. : 16
Dis. / Ant. : 3m CBL6111C	Ant. pol. : VERTICAL
Limit : FCC PART15 C	
Env. / Ins. : 24°C/56%	Engineer : Power Feng
EUT : i.Tech MusicClip 803	M/N: C51-B803-XX
Power supply : DC 3.7V	
Test mode : Bluetooth Mode	

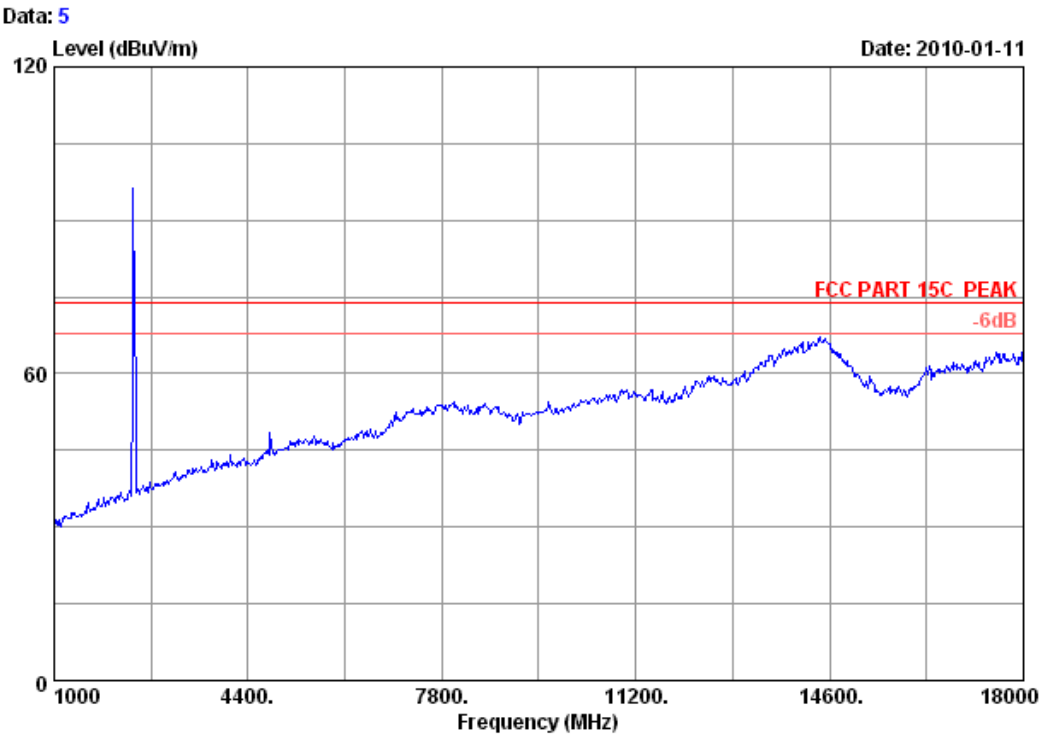
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission		Margin (dB)	Remark
				Level (dBuV/m)	Limits (dBuV/m)		
1 270.560	13.16	1.55	16.82	31.53	46.00	14.47	QP
2 306.450	13.70	1.78	15.08	30.56	46.00	15.44	QP
3 354.950	15.20	1.78	13.30	30.28	46.00	15.72	QP
4 406.360	16.42	1.87	13.35	31.64	46.00	14.36	QP
5 607.150	19.48	2.48	9.98	31.94	46.00	14.06	QP
6 675.050	20.28	2.64	10.35	33.27	46.00	12.73	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Test Frequency: 1GHz-18GHz
(8-DPSK)



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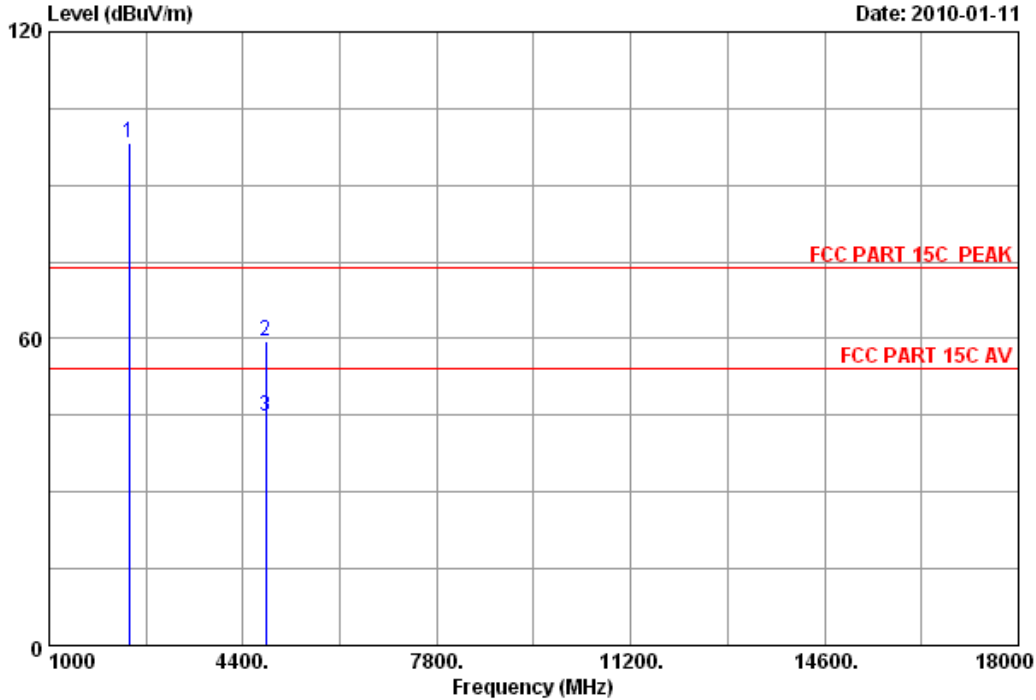


Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2402MHz		
	: 8-DPSK		



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Data: 6



Site no.	: 3m Chamber	Data no.	: 6
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2402MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.46	8.60	36.09	97.37	98.34	74.00	-24.34	Peak
2	4804.000	34.36	12.40	35.37	48.09	59.48	74.00	14.52	Peak
3	4804.000	34.36	12.40	35.37	33.39	44.78	54.00	9.22	Average

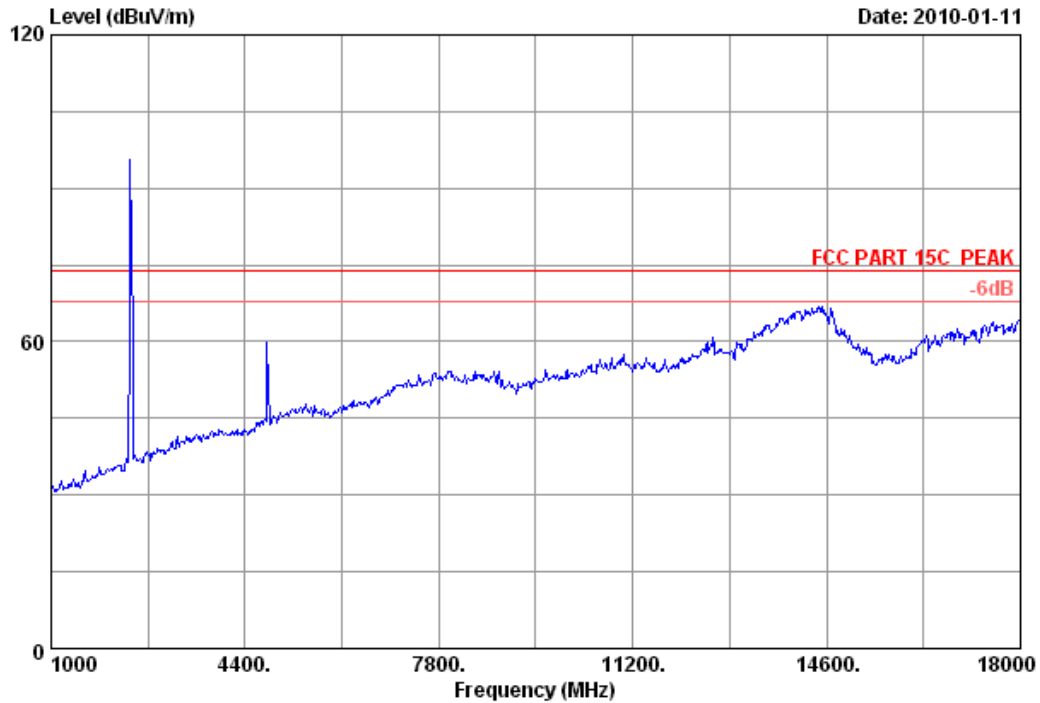
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 7

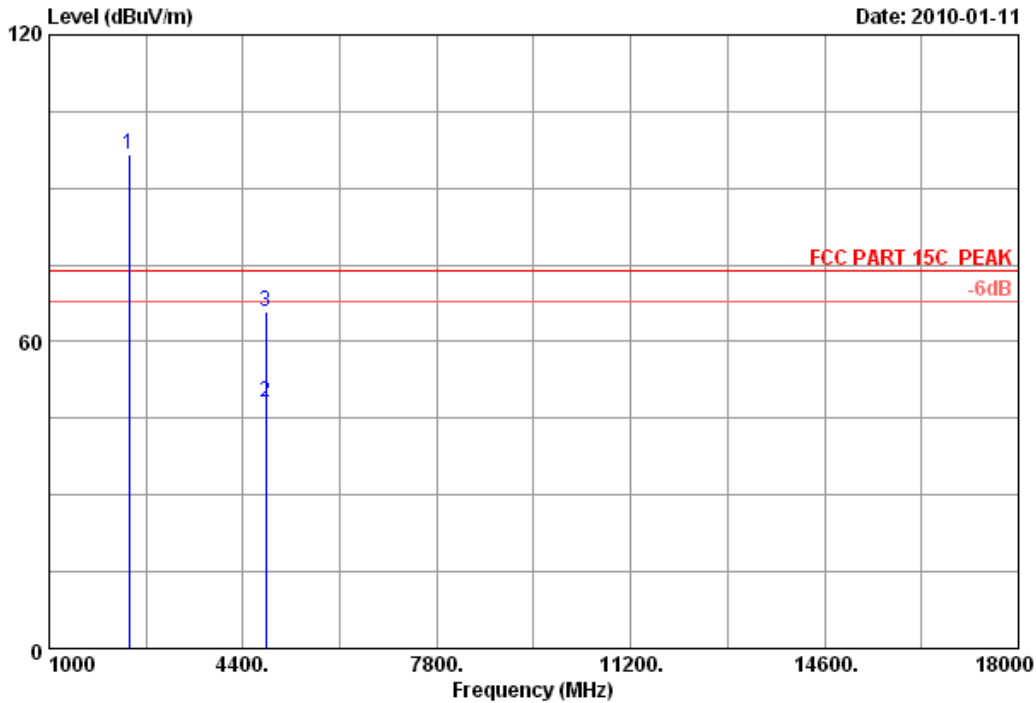


Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2402MHz		
	: 8-DPSK		



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Data: 8



Site no.	: 3m Chamber	Data no.	: 8
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2402MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.46	8.60	36.09	95.59	96.56	74.00	-22.56	Peak
2	4804.000	34.36	12.40	35.37	36.64	48.03	74.00	25.97	Average
3	4804.000	34.36	12.40	35.37	54.30	65.69	74.00	8.31	Peak

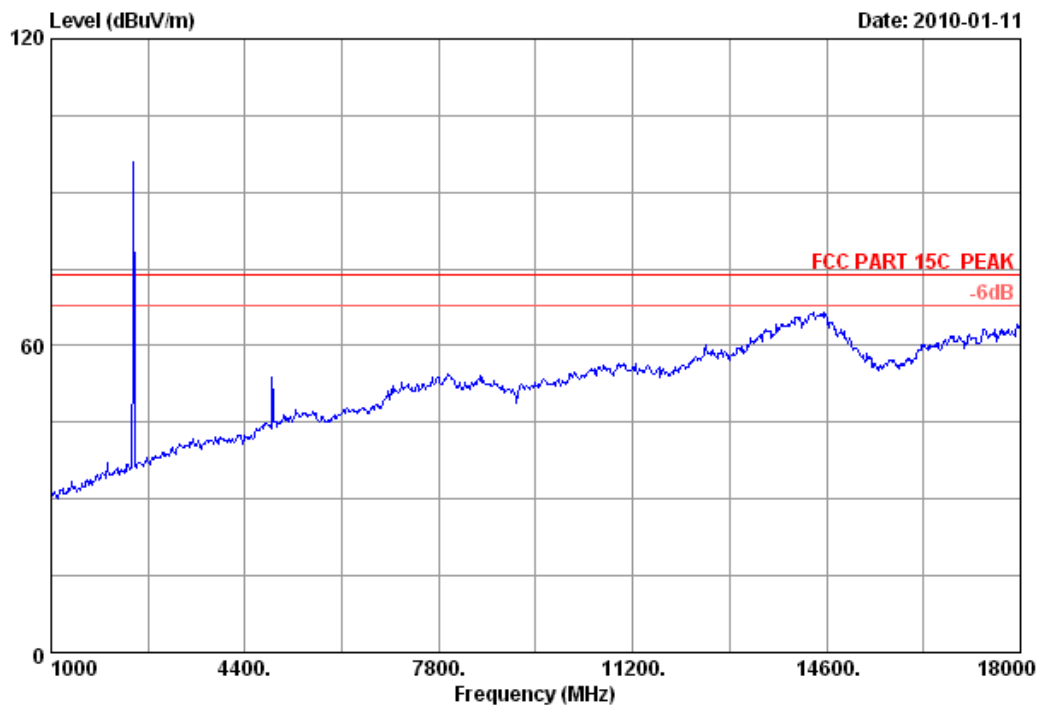
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 9

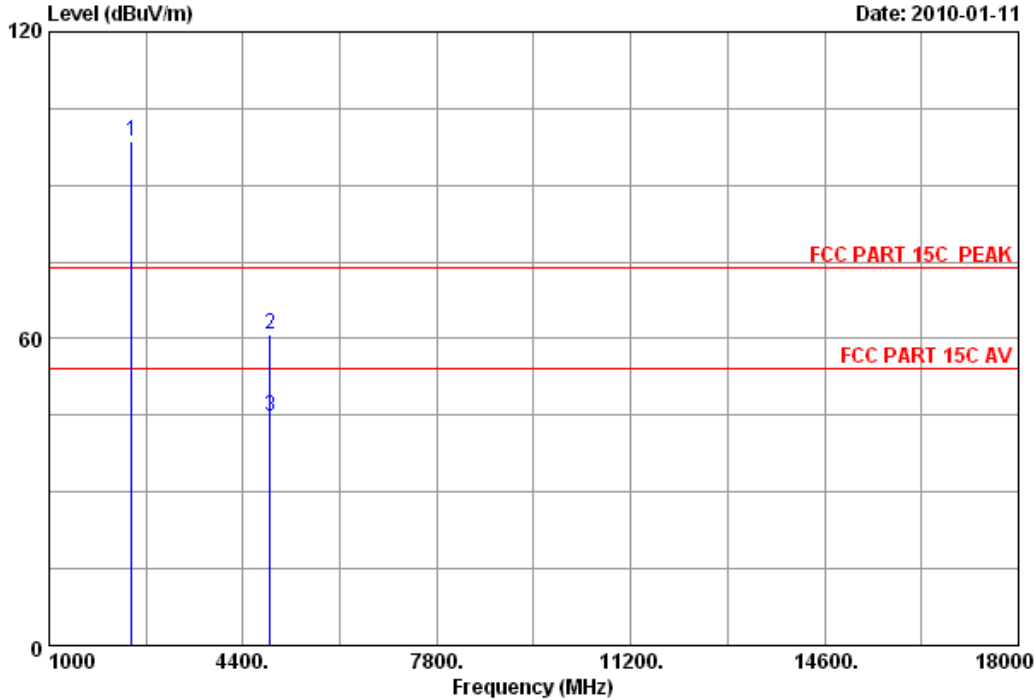


Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2441MHz		
	: 8-DPSK		



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Data: 10



Site no.	: 3m Chamber	Data no.	: 10
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2441MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.53	8.48	36.06	97.68	98.63	74.00	-24.63	Peak
2	4882.000	34.78	12.33	35.36	49.14	60.89	74.00	13.11	Peak
3	4882.000	34.78	12.33	35.36	33.14	44.89	54.00	9.11	Average

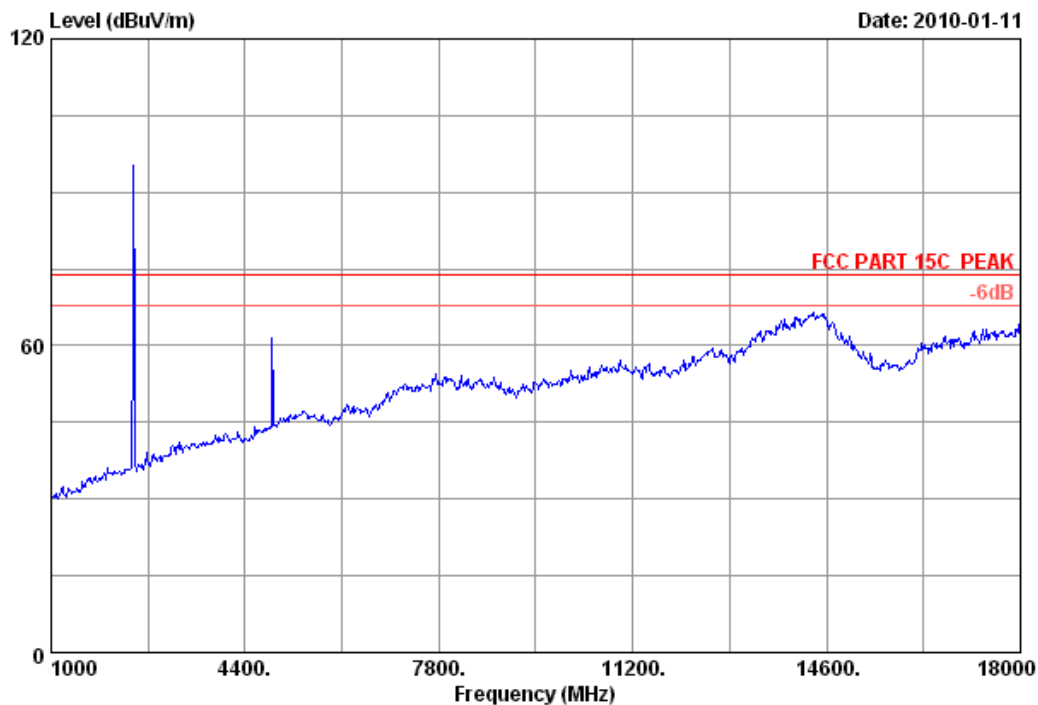
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11

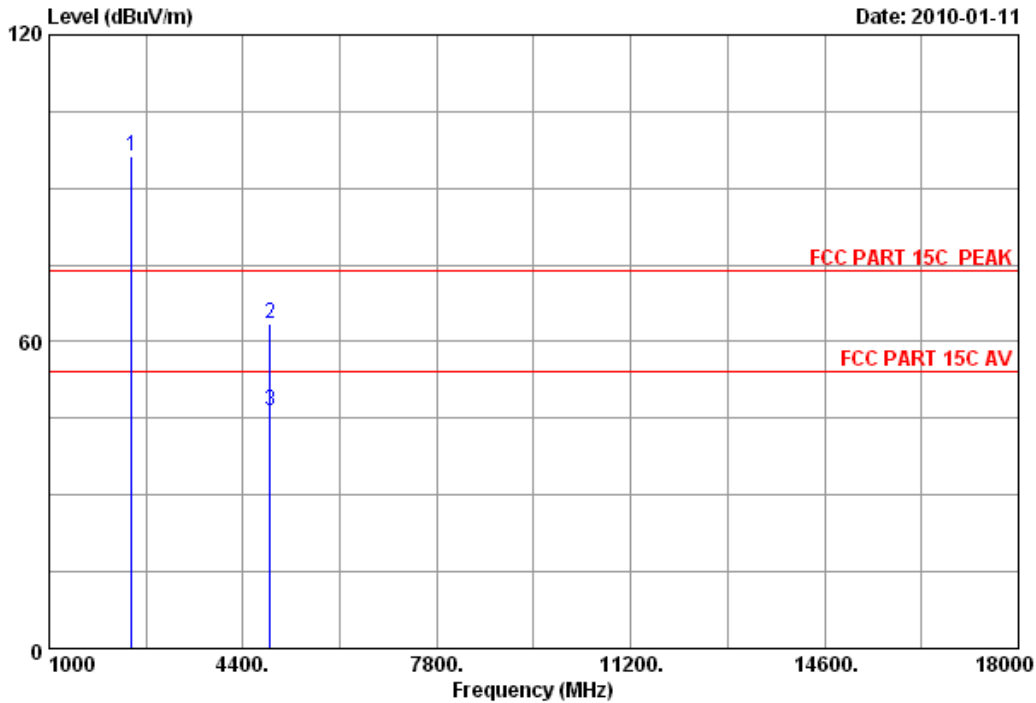


Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2441MHz		
	: 8-DPSK		



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Data: 12



Site no.	: 3m Chamber	Data no.	: 12
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2441MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.53	8.48	36.06	95.19	96.14	74.00	-22.14	Peak
2	4882.000	34.78	12.33	35.36	51.87	63.62	74.00	10.38	Peak
3	4882.000	34.78	12.33	35.36	34.87	46.62	54.00	7.38	Average

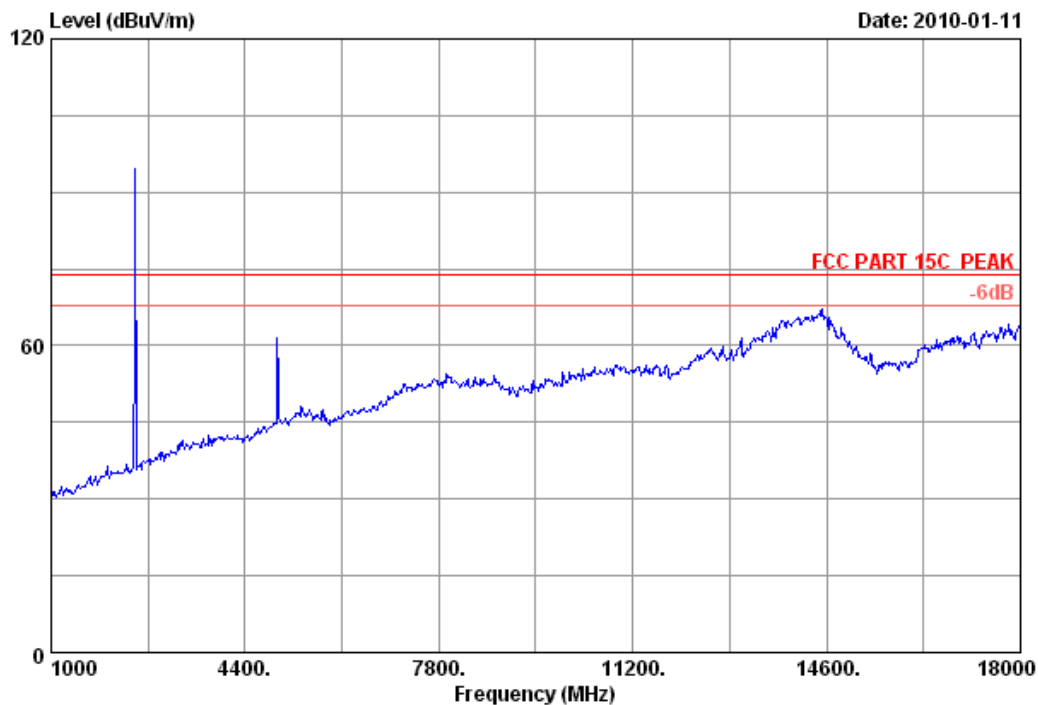
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 13

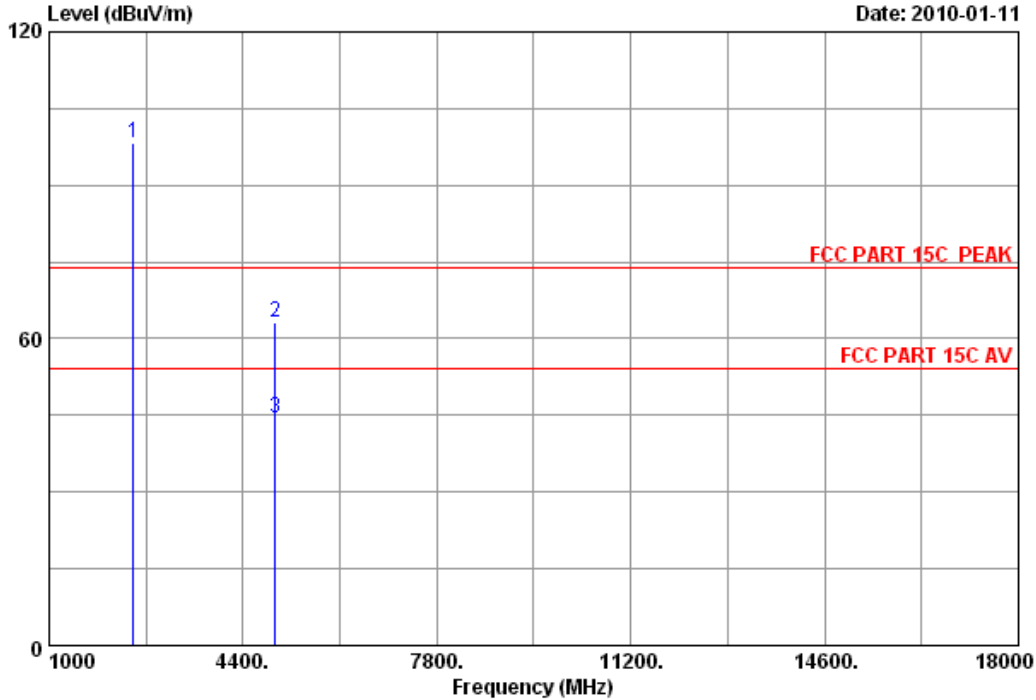


Site no.	: 3m Chamber	Data no.	: 13
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8-DPSK		



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Data: 14



Site no.	: 3m Chamber	Data no.	: 14
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.58	8.94	35.97	96.57	98.12	74.00	-24.12	Peak
2	4960.000	35.29	12.58	35.37	50.54	63.04	74.00	10.96	Peak
3	4960.000	35.29	12.58	35.37	31.93	44.43	54.00	9.57	Average

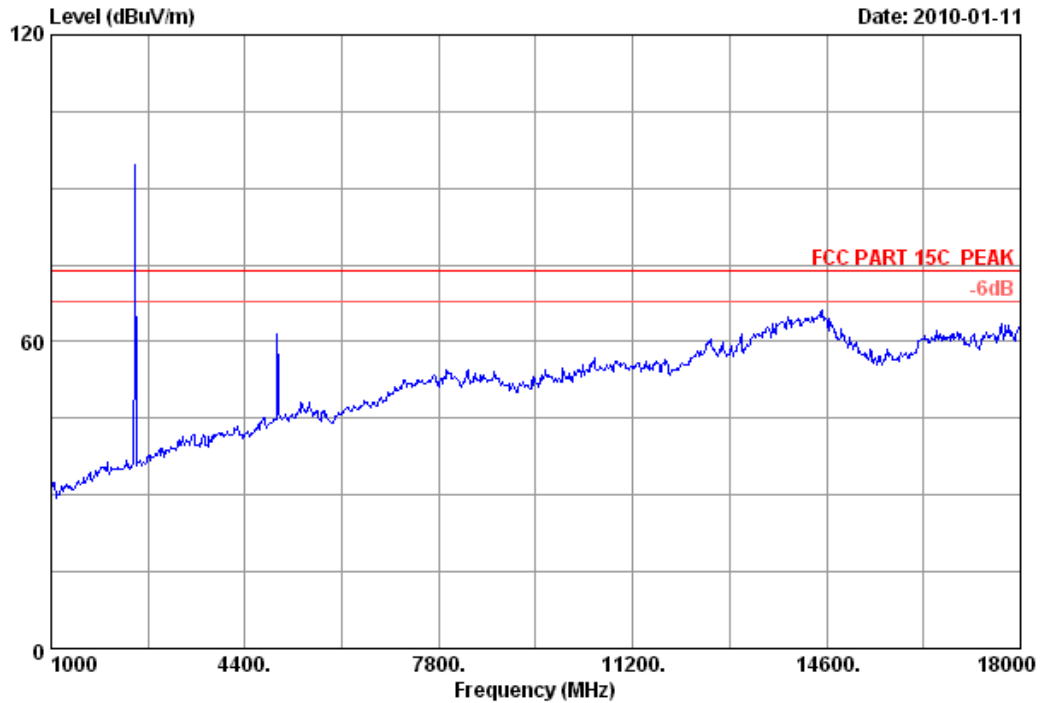
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 15

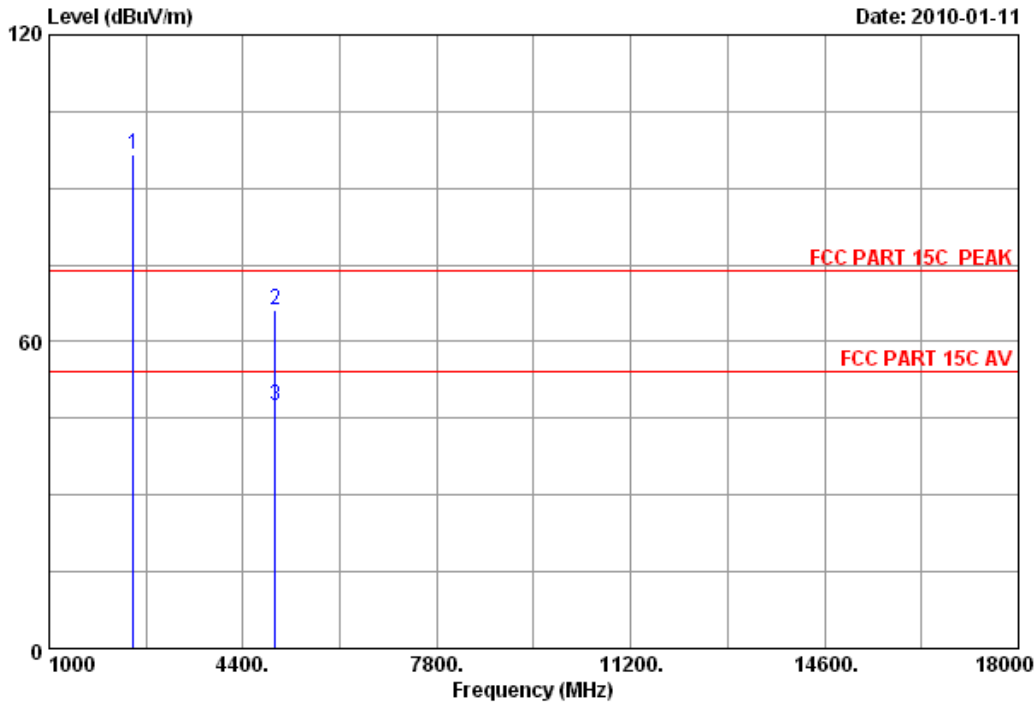


Site no.	: 3m Chamber	Data no.	: 15
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8-DPSK		



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Data: 16



Site no.	: 3m Chamber	Data no.	: 16
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8-DPSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.58	8.94	35.97	94.90	96.45	74.00	-22.45	Peak
2	4960.000	35.29	12.58	35.37	53.54	66.04	74.00	7.96	Peak
3	4960.000	35.29	12.58	35.37	34.96	47.46	54.00	6.54	Average

Remarks:

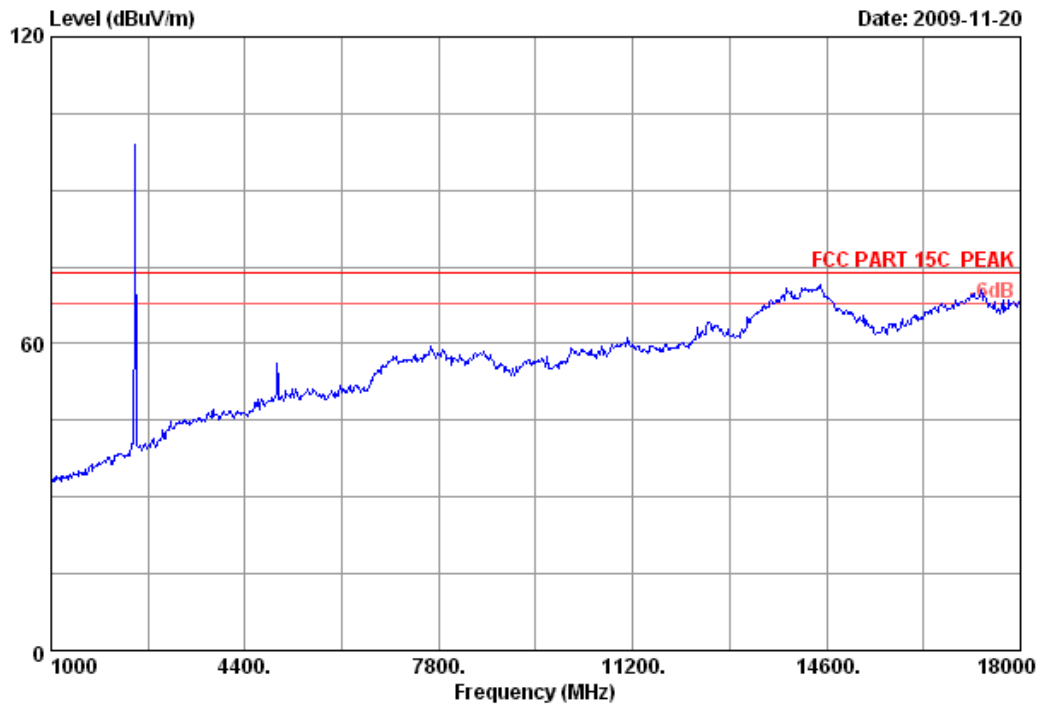
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

(GFSK)



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Data: 23

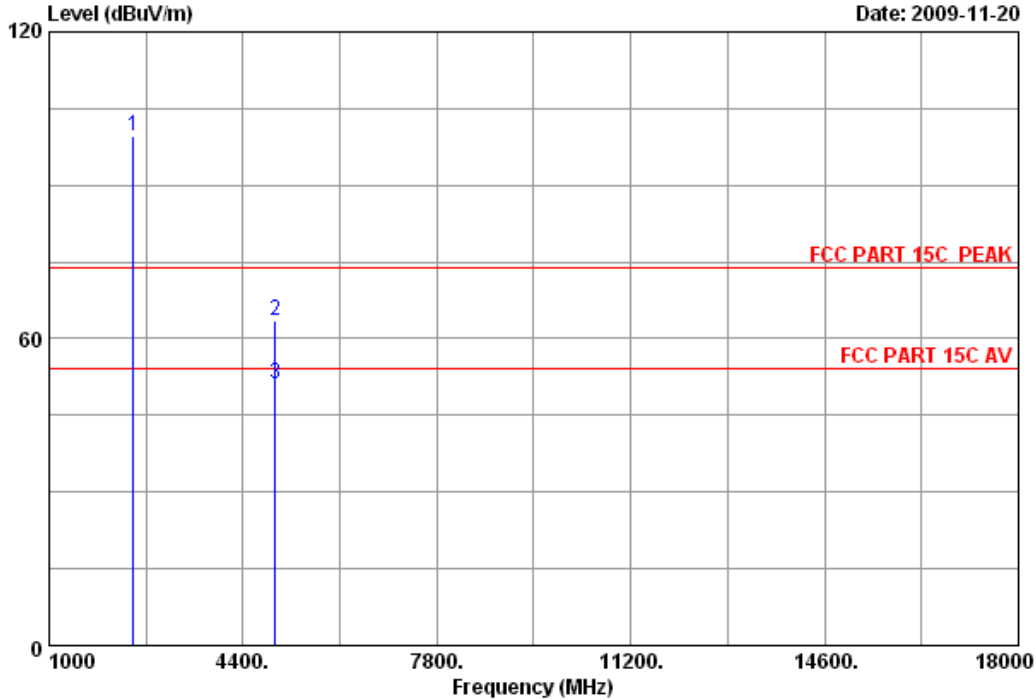


Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2480MHz GFSK		



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Data: 24



Site no. : 3m Chamber	Data no. : 24
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Alan Geng
EUT : i.Tech MusicClip 803	M/N: C51-B803-XX
Power supply : DC 3.7V	
Test mode : Tx-2480MHz GFSK	

	Freq.	Ant.	Cable	Amp.	Reading	Emission			
	(MHz)	Factor	loss	Factor	(dbuv)	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)		(dBuV/m)	(dBuV/m)	(dB)	
1	2480.000	28.58	6.87	35.10	99.43	99.78	74.00	-25.78	Peak
2	4960.000	35.29	10.59	34.56	52.13	63.45	74.00	10.55	Peak
3	4960.000	35.29	10.59	34.56	39.71	51.03	54.00	2.97	Average

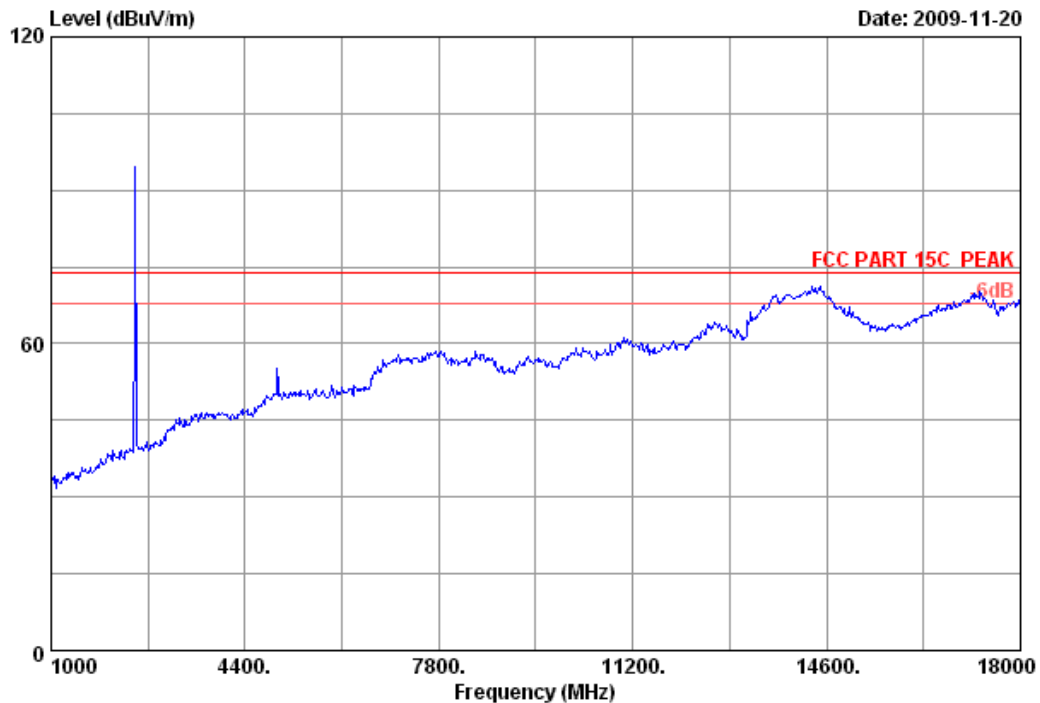
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 25

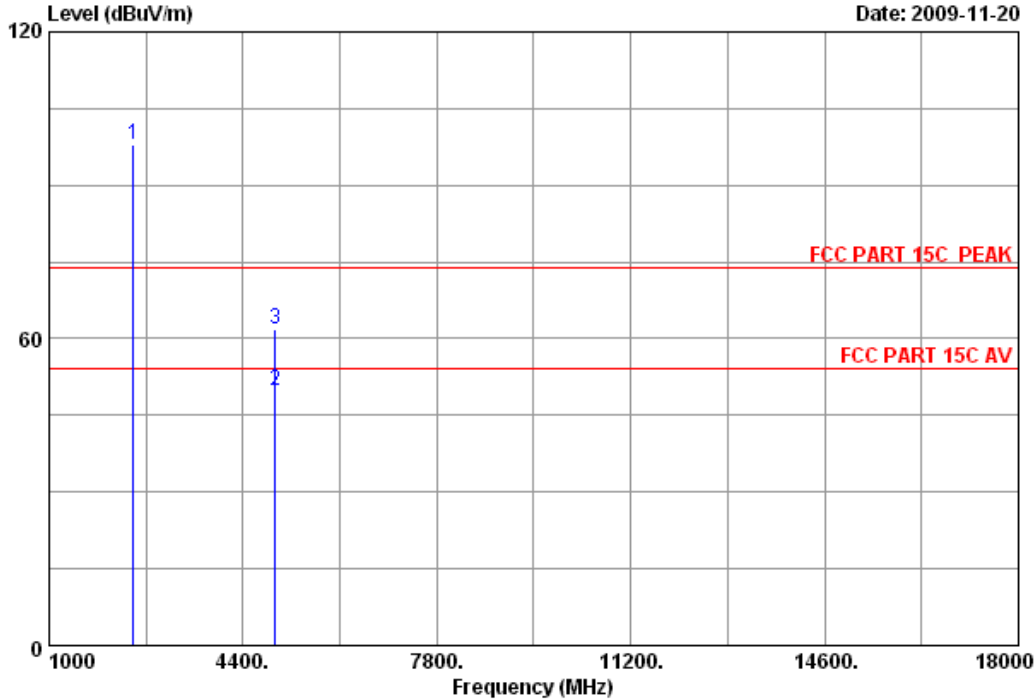


Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power Rating	: DC 3.7V		
Test mode	: Tx-2480MHz GFSK		



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Data: 26



Site no. : 3m Chamber	Data no. : 26
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Alan Geng
EUT : i.Tech MusicClip 803	M/N: C51-B803-XX
Power Rating : DC 3.7V	
Test mode : Tx-2480MHz GFSK	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.58	6.87	35.10	97.55	97.90	74.00	-23.90	Peak
2	4960.000	35.29	10.59	34.56	38.50	49.82	54.00	4.18	Average
3	4960.000	35.29	10.59	34.56	50.67	61.99	74.00	12.01	Peak

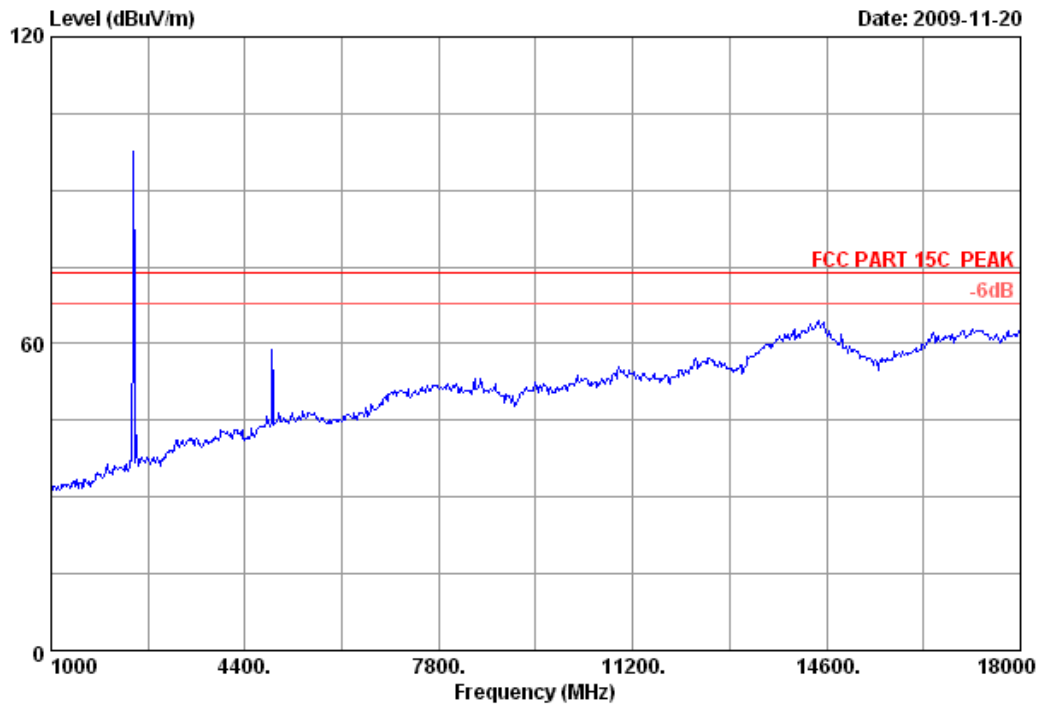
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 27

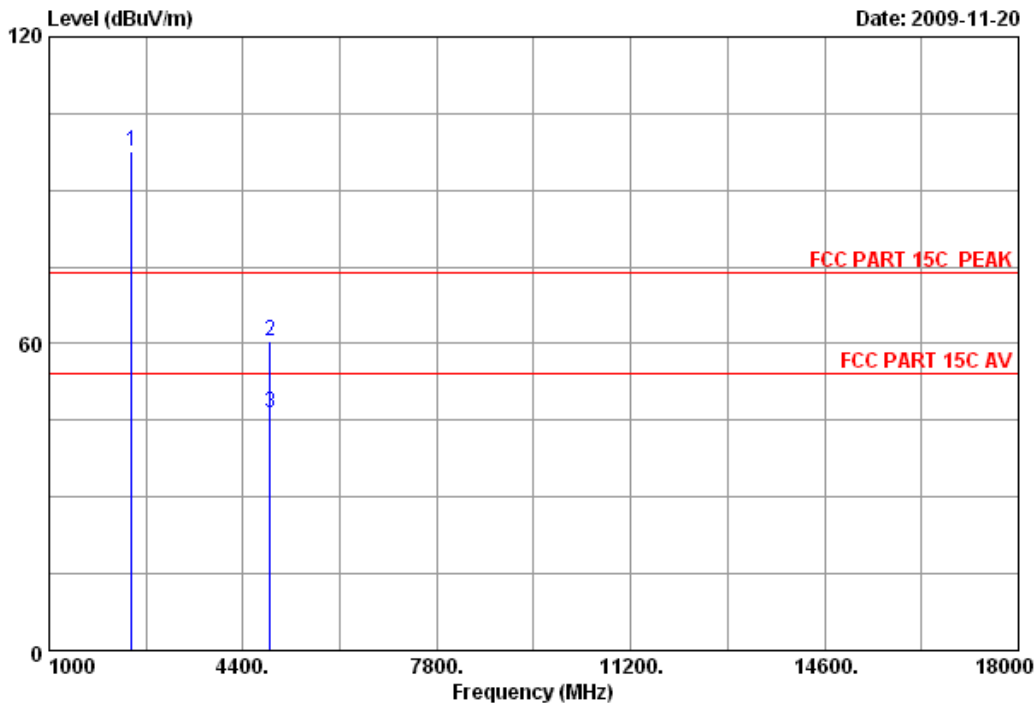


Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power Rating	: DC 3.7V		
Test mode	: Tx-2441MHz GFSK		



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Data: 28



Site no. : 3m Chamber	Data no. : 28
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Alan Geng
EUT : i.Tech MusicClip 803 M/N:C51-B803-XX	
Power Rating : DC 3.7V	
Test mode : Tx-2441MHz GFSK	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.53	6.80	35.11	97.33	97.55	74.00	-23.55	Peak
2	4882.000	34.78	10.57	34.58	49.64	60.41	74.00	13.59	Peak
3	4882.000	34.78	10.57	34.58	35.85	46.62	54.00	7.38	Average

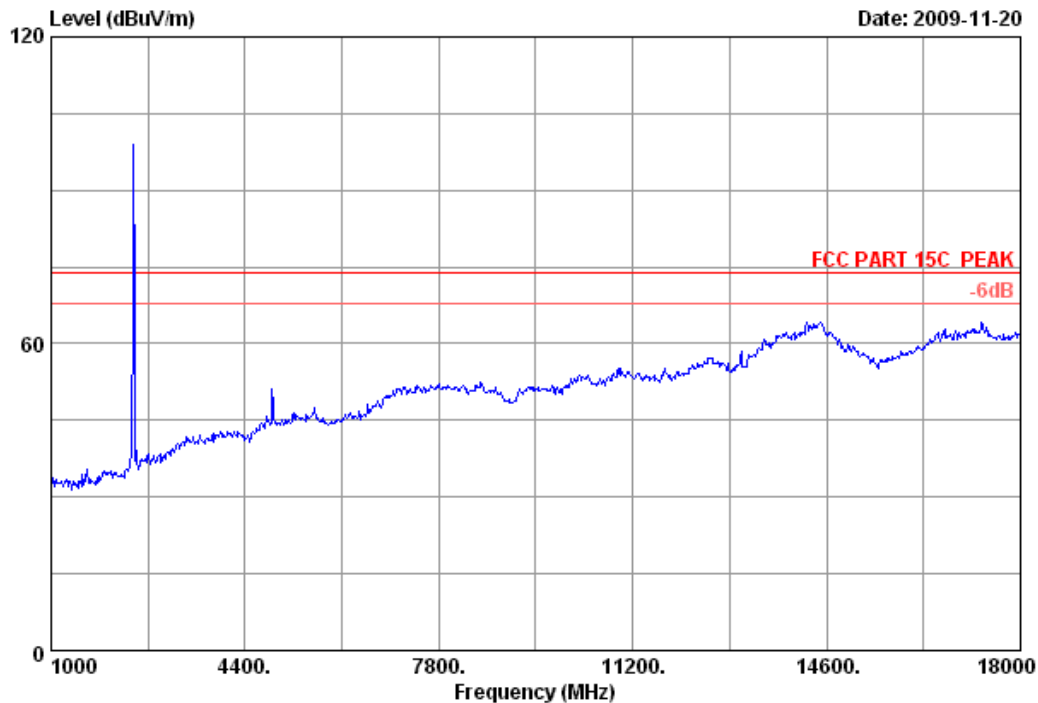
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 29

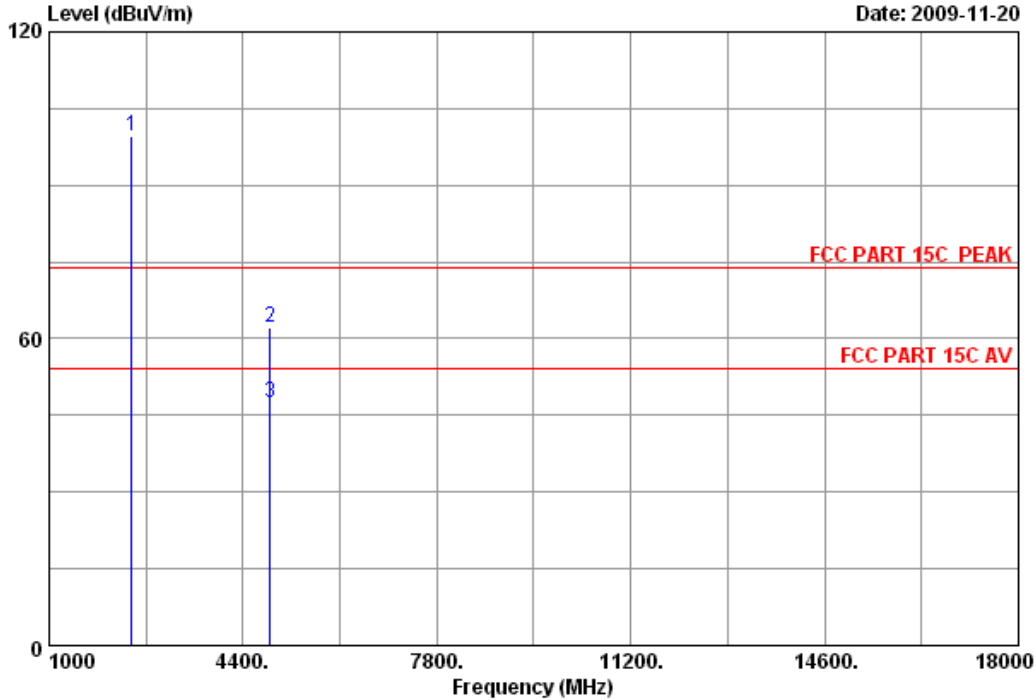


Site no.	: 3m Chamber	Data no.	: 29
Dis. / Ant.	: 3m CBL6111C	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2441MHz GFSK		



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Data: 30



Site no.	: 3m Chamber	Data no.	: 30
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2441MHz GFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.53	6.80	35.11	99.53	99.75	74.00	-25.75	Peak
2	4882.000	34.78	10.57	34.58	51.31	62.08	74.00	11.92	Peak
3	4882.000	34.78	10.57	34.58	36.57	47.34	54.00	6.66	Average

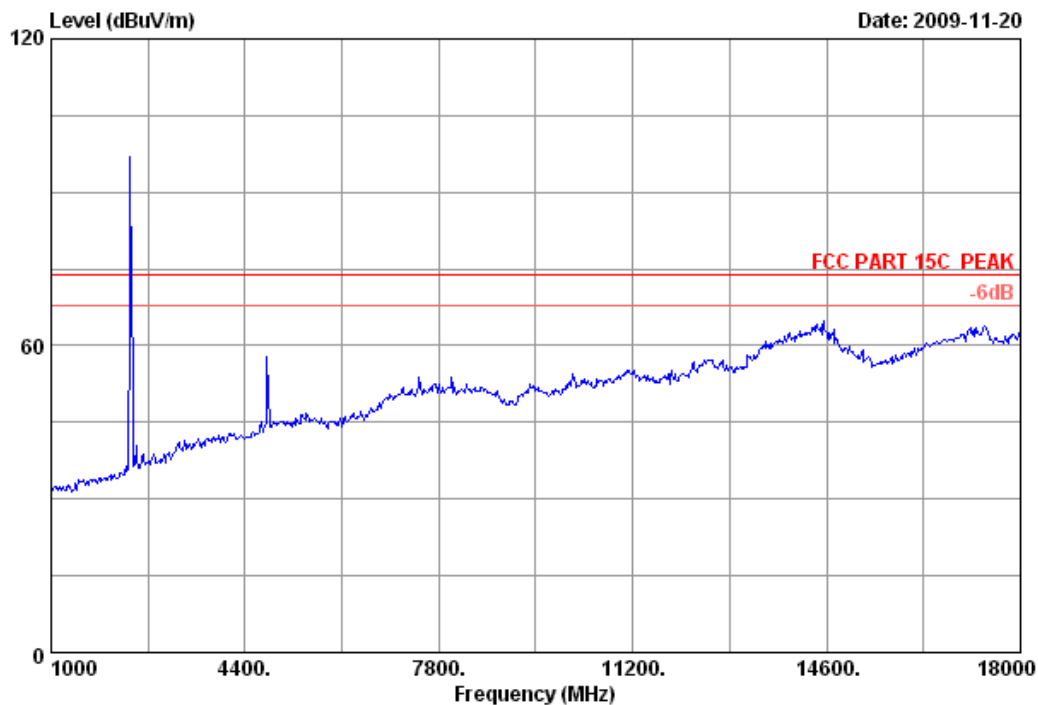
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 31

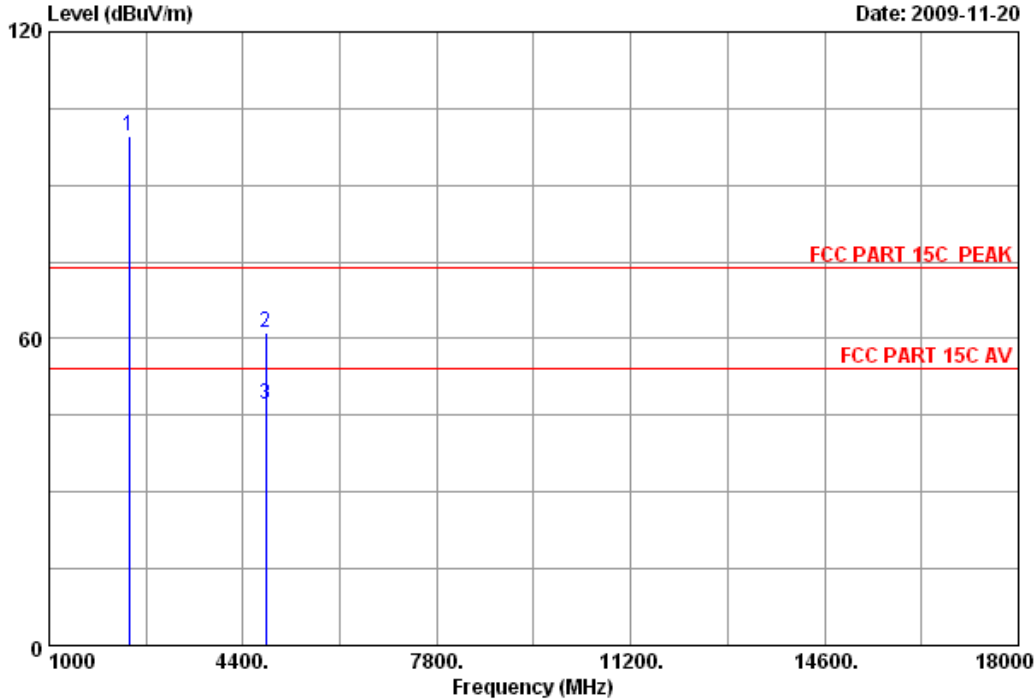


Site no.	: 3m Chamber	Data no.	: 31
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power Rating	: DC 3.7V		
Test mode	: Tx-2402MHz GFSK		



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Data: 32



Site no. : 3m Chamber	Data no. : 32
Dis. / Ant. : 3m 3115	Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Alan Geng
EUT : i.Tech MusicClip 803	M/N: C51-B803-XX
Power supply : DC 3.7V	
Test mode : Tx-2402MHz GFSK	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.46	6.73	35.12	99.58	99.65	74.00	-25.65	Peak
2	4804.000	34.36	10.53	34.60	51.02	61.31	74.00	12.69	Peak
3	4804.000	34.36	10.53	34.60	36.95	47.24	54.00	6.76	Average

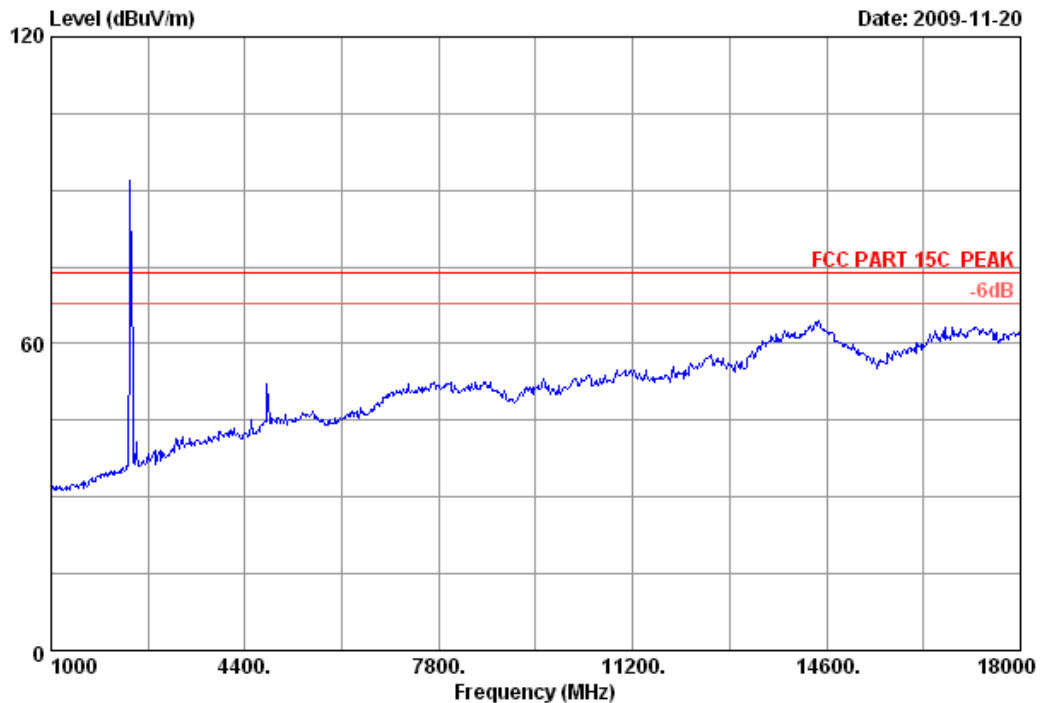
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 33

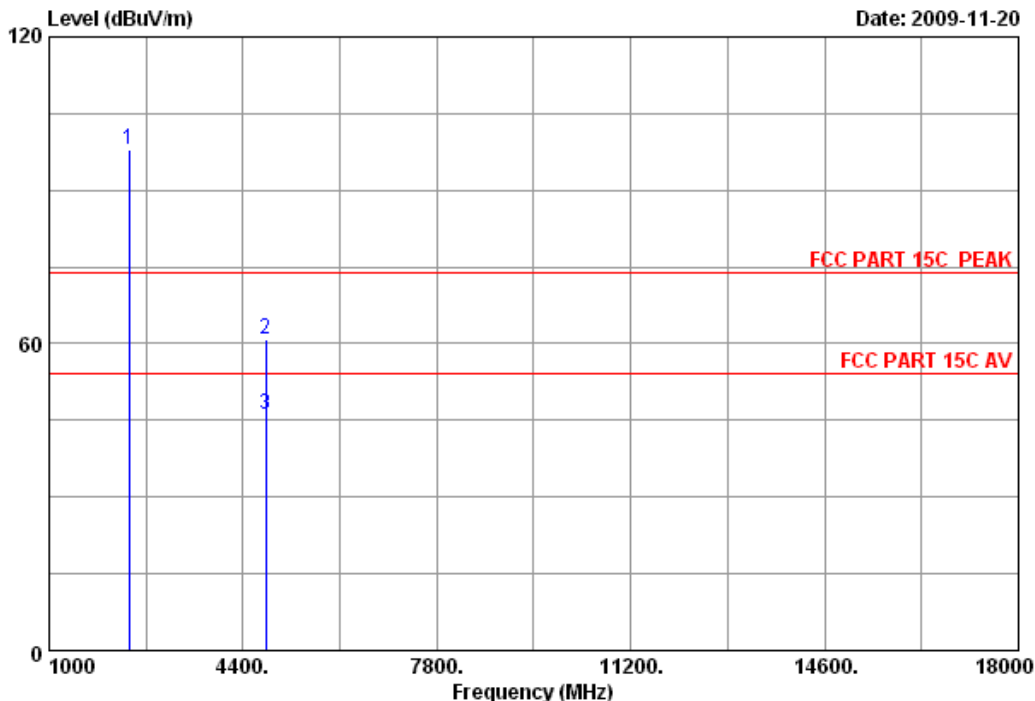


Site no.	: 3m Chamber	Data no.	: 33
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2402MHz GFSK		



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Data: 34



Site no. : 3m Chamber	Data no. : 34
Dis. / Ant. : 3m 3115	Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK	
Env. / Ins. : 23°C/54%	Engineer : Alan Geng
EUT : i.Tech MusicClip 803	M/N: C51-B803-XX
Power supply : DC 3.7V	
Test mode : Tx-2402MHz GFSK	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.000	28.46	6.73	35.12	97.79	97.86	74.00	-23.86	Peak
2	4804.000	34.36	10.53	34.60	50.71	61.00	74.00	13.00	Peak
3	4804.000	34.36	10.53	34.60	35.97	46.26	54.00	7.74	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5. CARRIER FREQUENCY SEPARATION TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,08, 09	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,08, 09	1Year

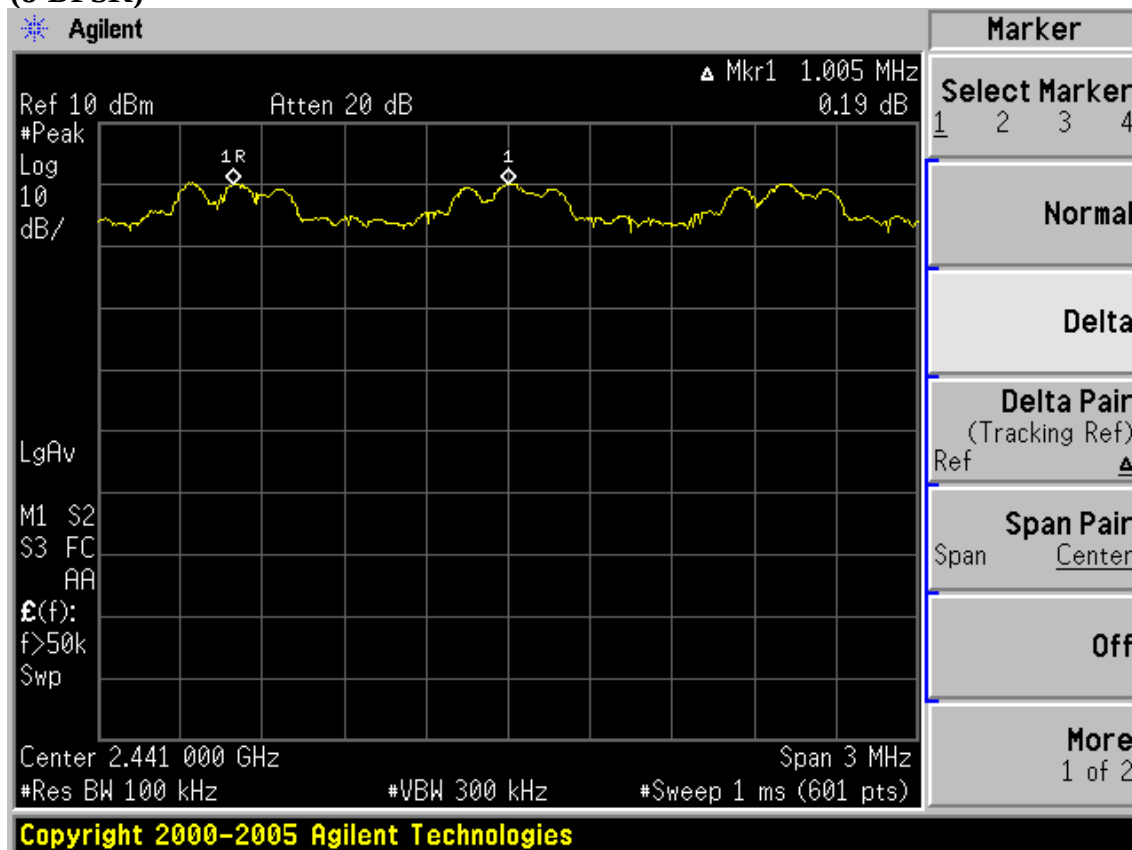
5.2. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

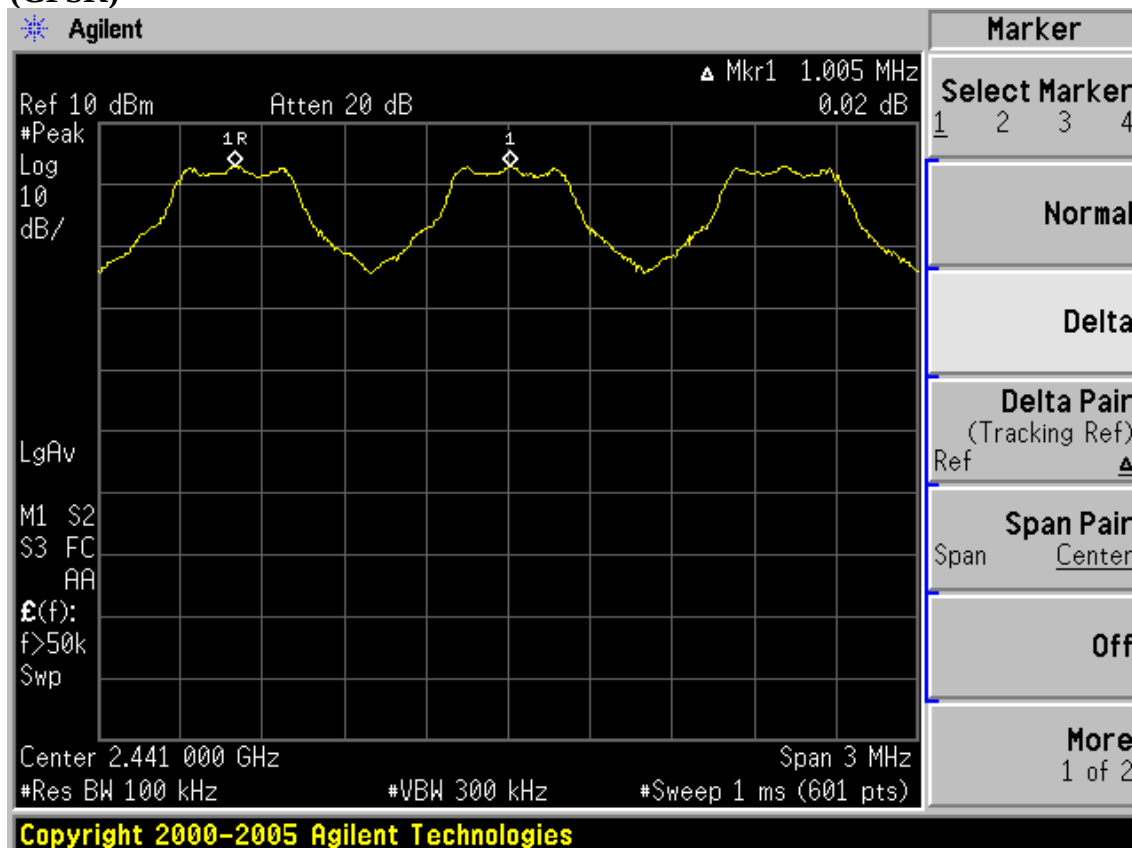
5.3. Test Results

Test Mode	Channel separation	Conclusion
8-DPSK	1.005MHz	PASS
GFSK	1.005MHz	PASS

(8-DPSK)



(GFSK)



6. 20 DB BANDWIDTH TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,08, 09	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,08, 09	1Year

6.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

6.3. Test Results

(8-DPSK)

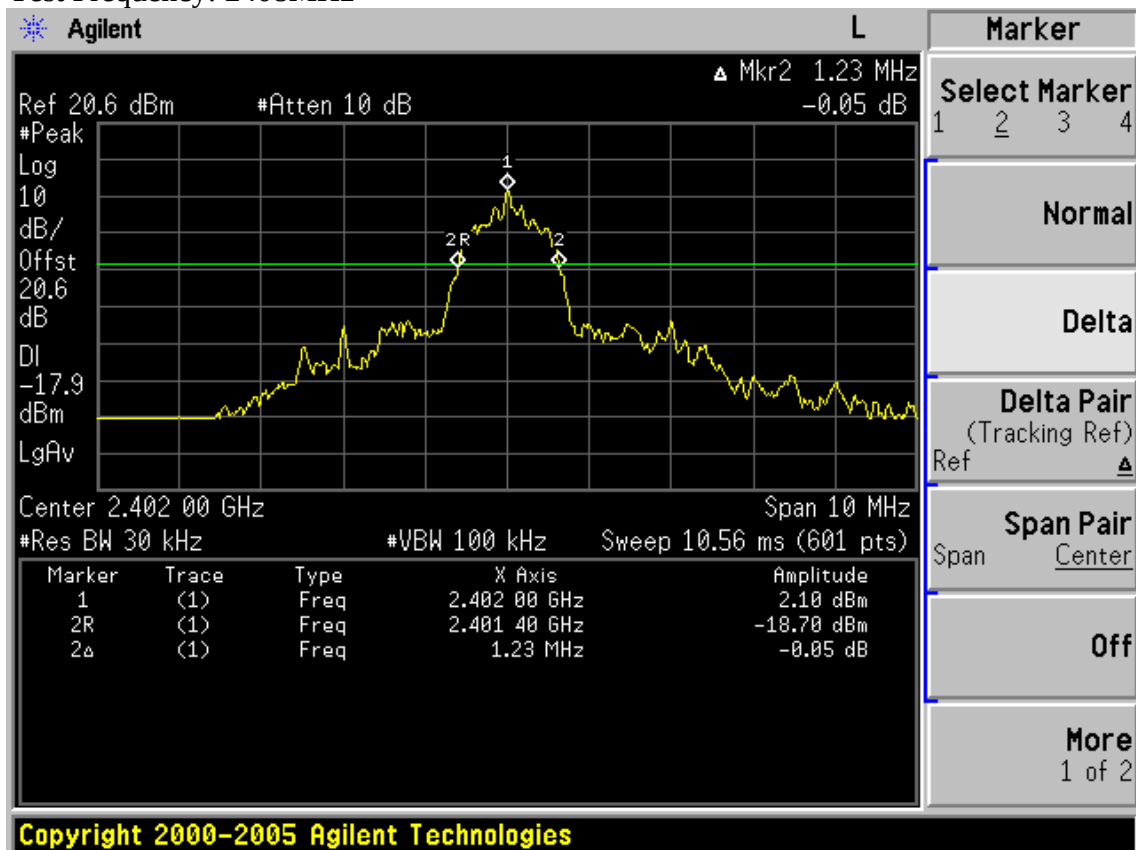
CH	20dB Bandwidth (MHz)	Limit (MHz)	Conclusion
(Low)	1.23	---	PASS
(Mid)	1.23	---	PASS
(High)	1.23	---	PASS

(GFSK)

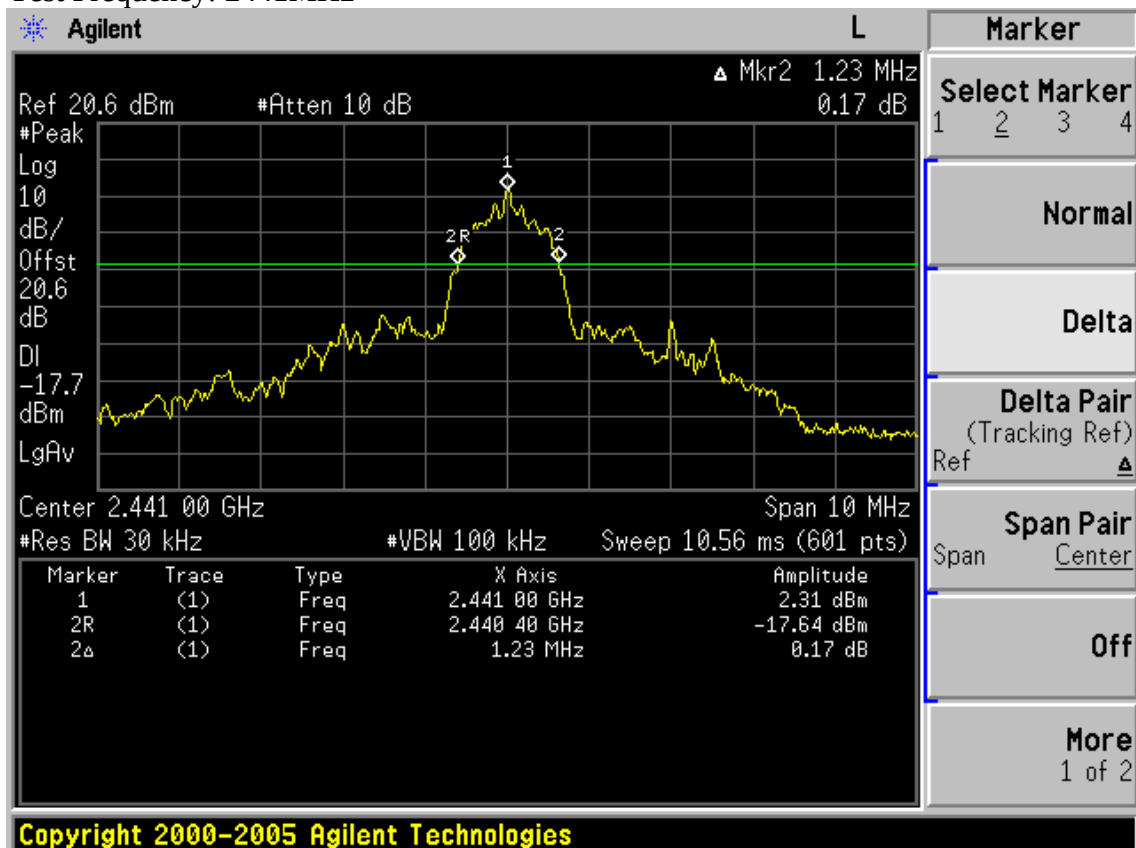
CH	20dB Bandwidth (MHz)	Limit (MHz)	Conclusion
(Low)	0.92	---	PASS
(Mid)	0.88	---	PASS
(High)	0.88	---	PASS

(8-DPSK)

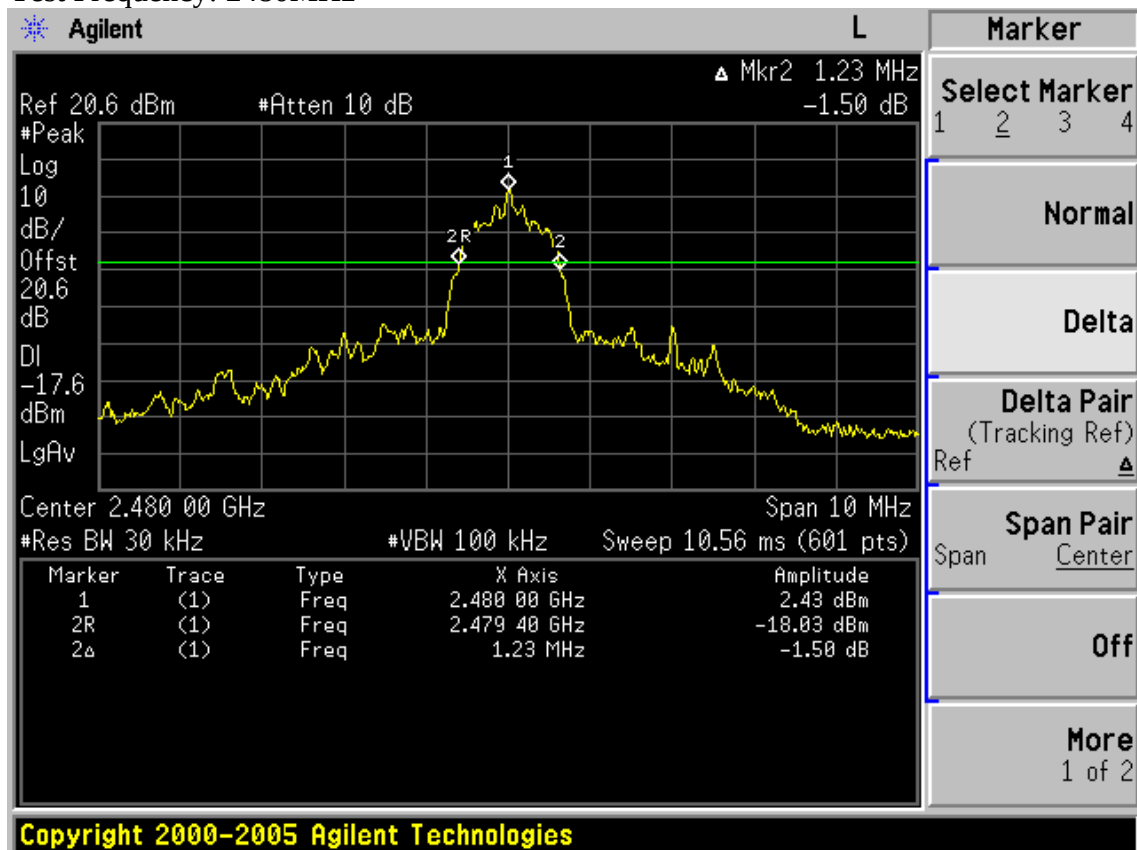
Test Frequency: 2408MHz



Test Frequency: 2441MHz

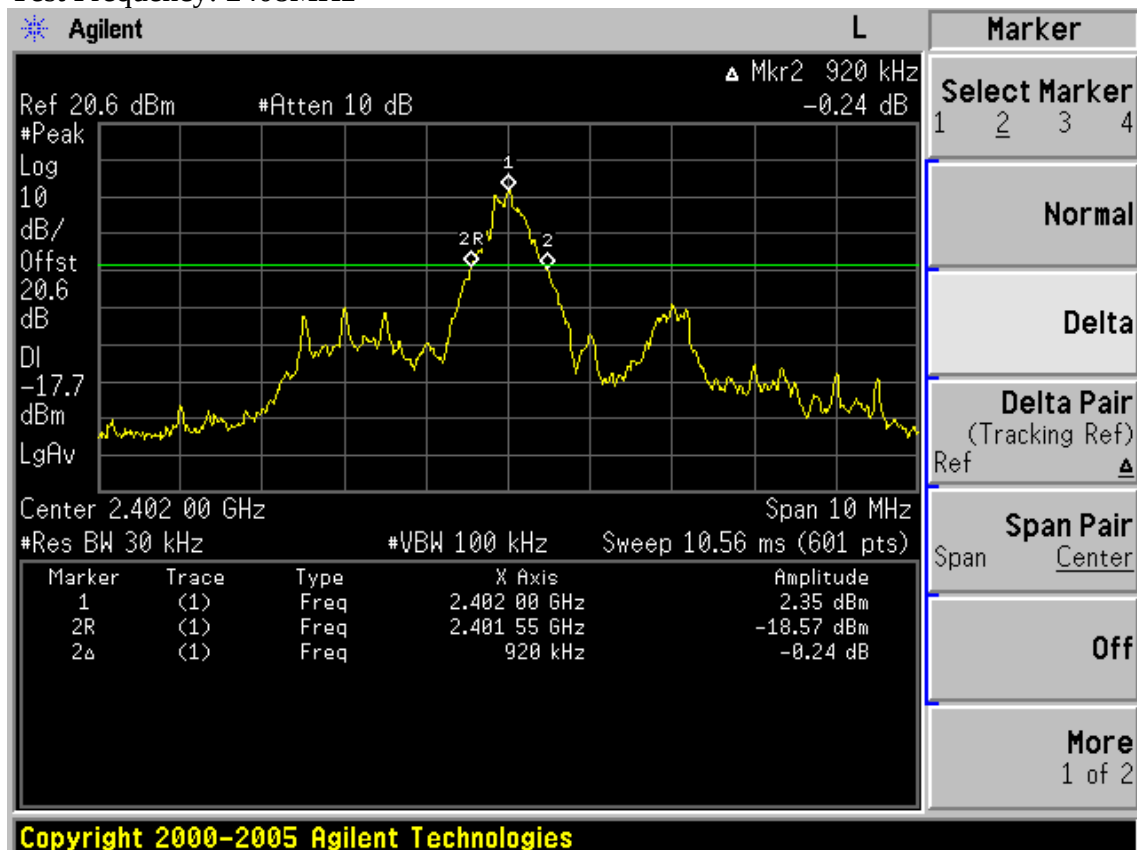


Test Frequency: 2480MHz

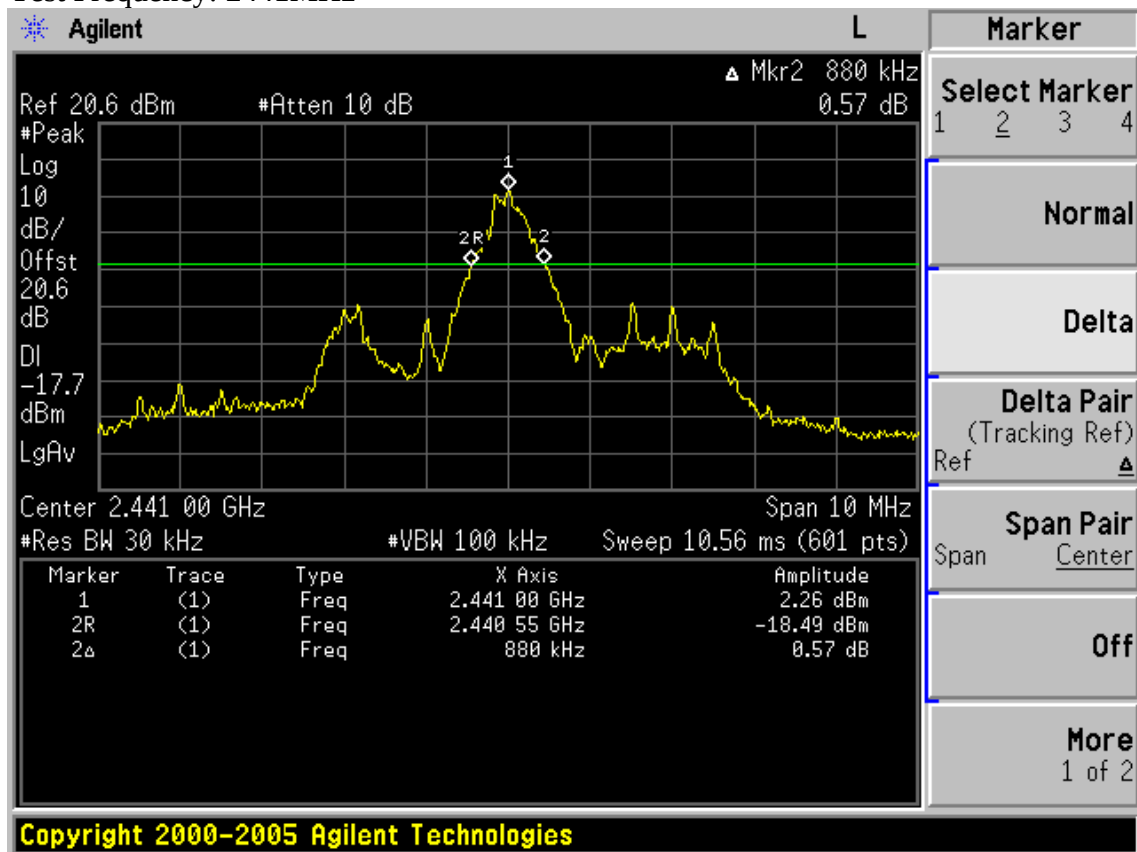


(GFSK)

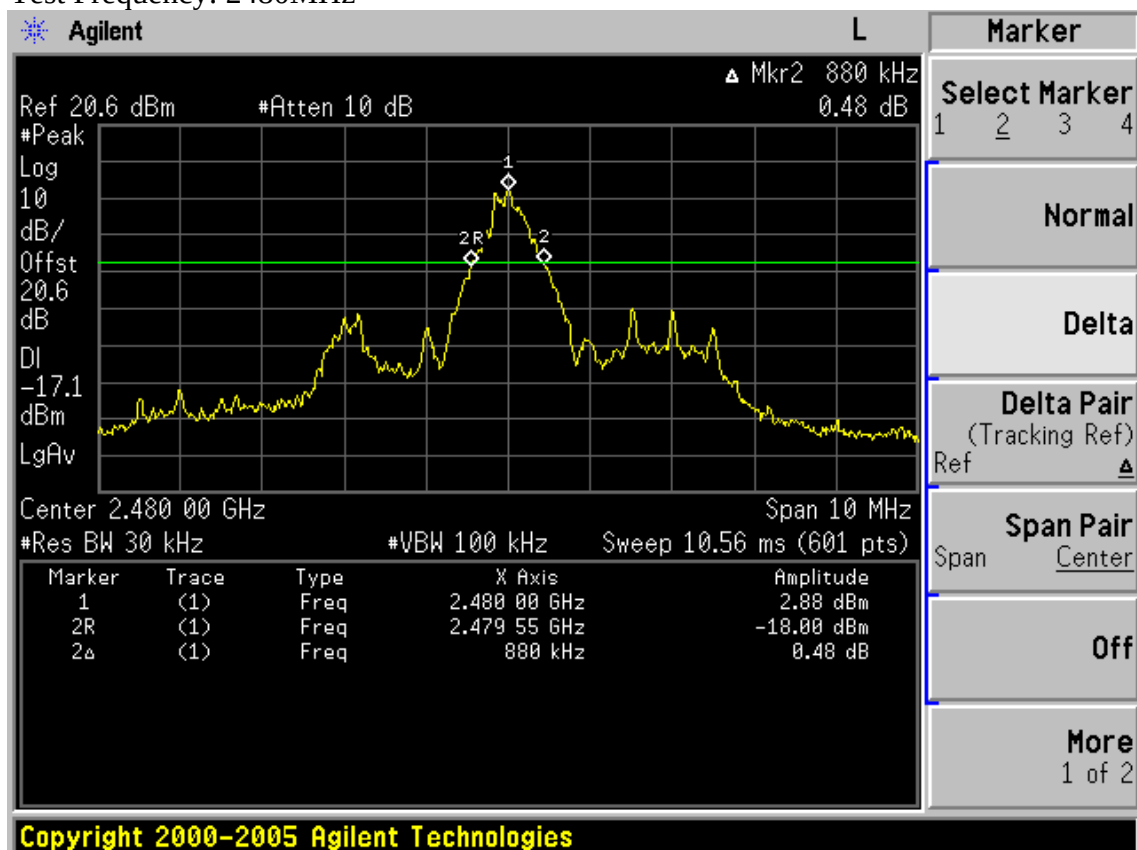
Test Frequency: 2408MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,08, 09	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,08, 09	1Year

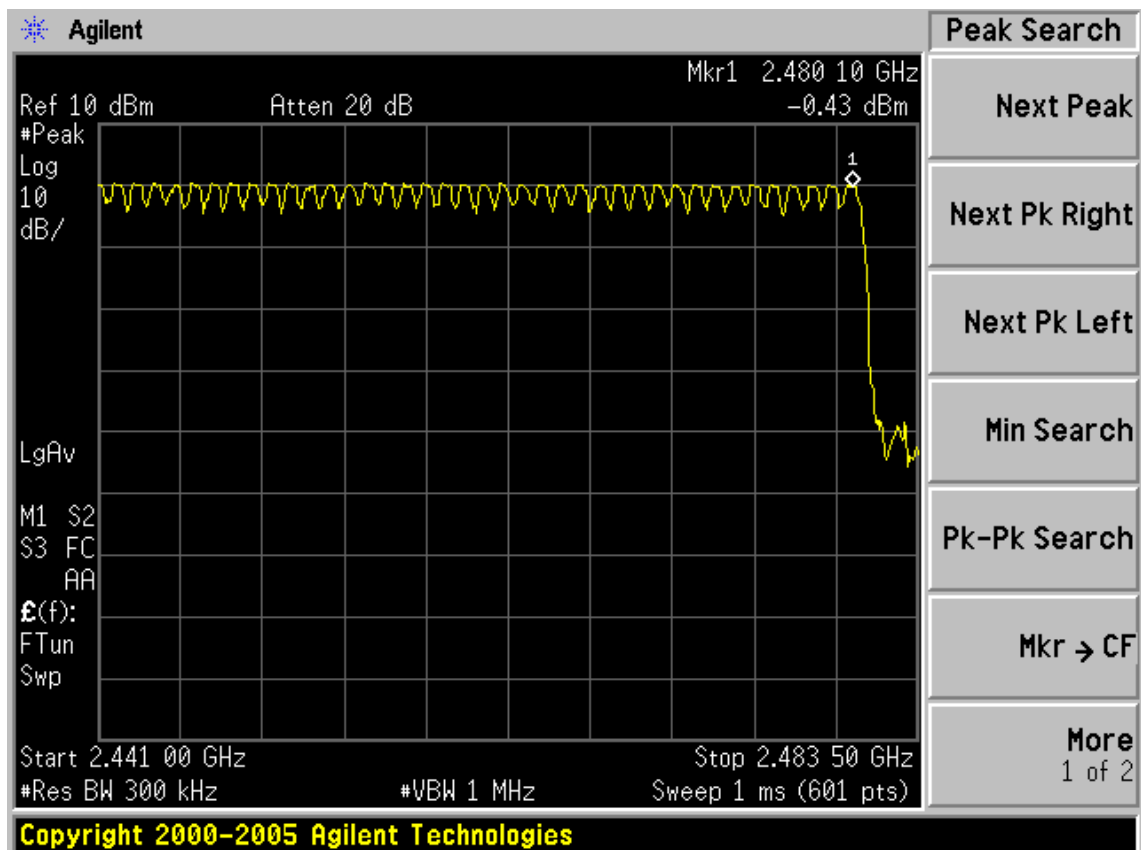
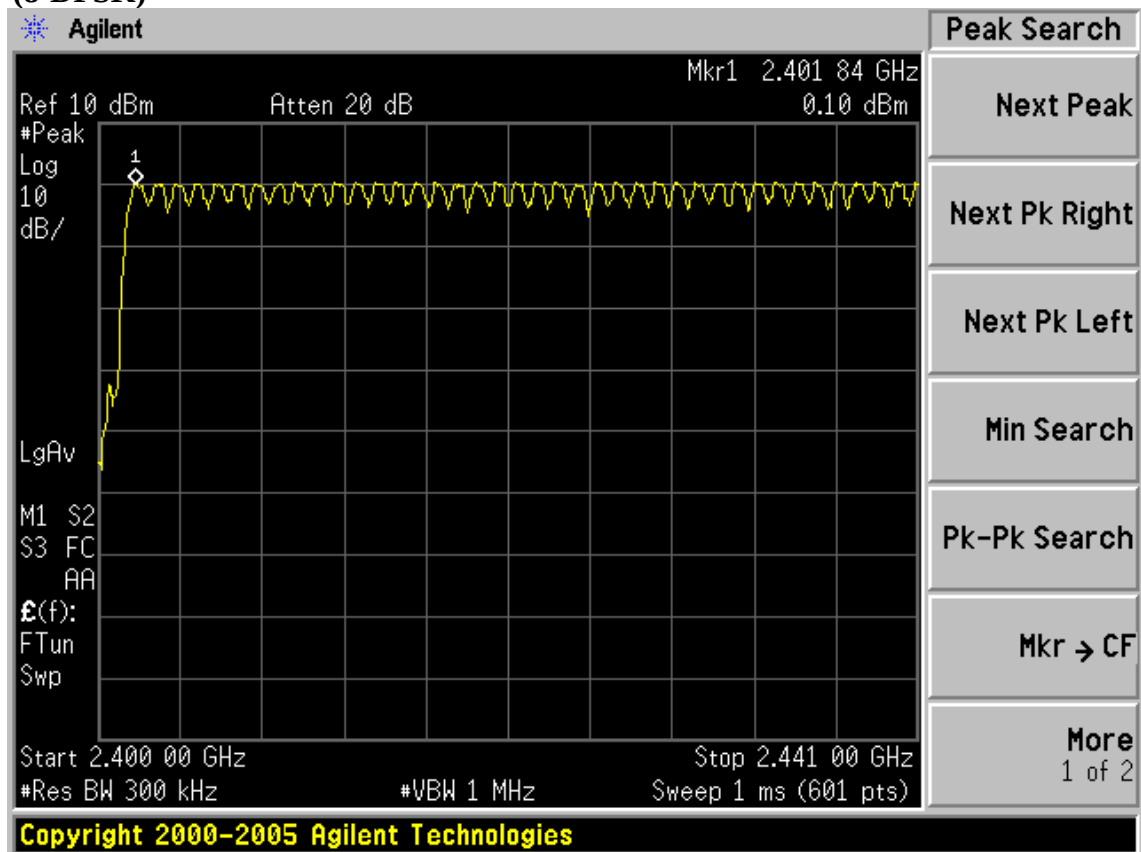
7.2. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

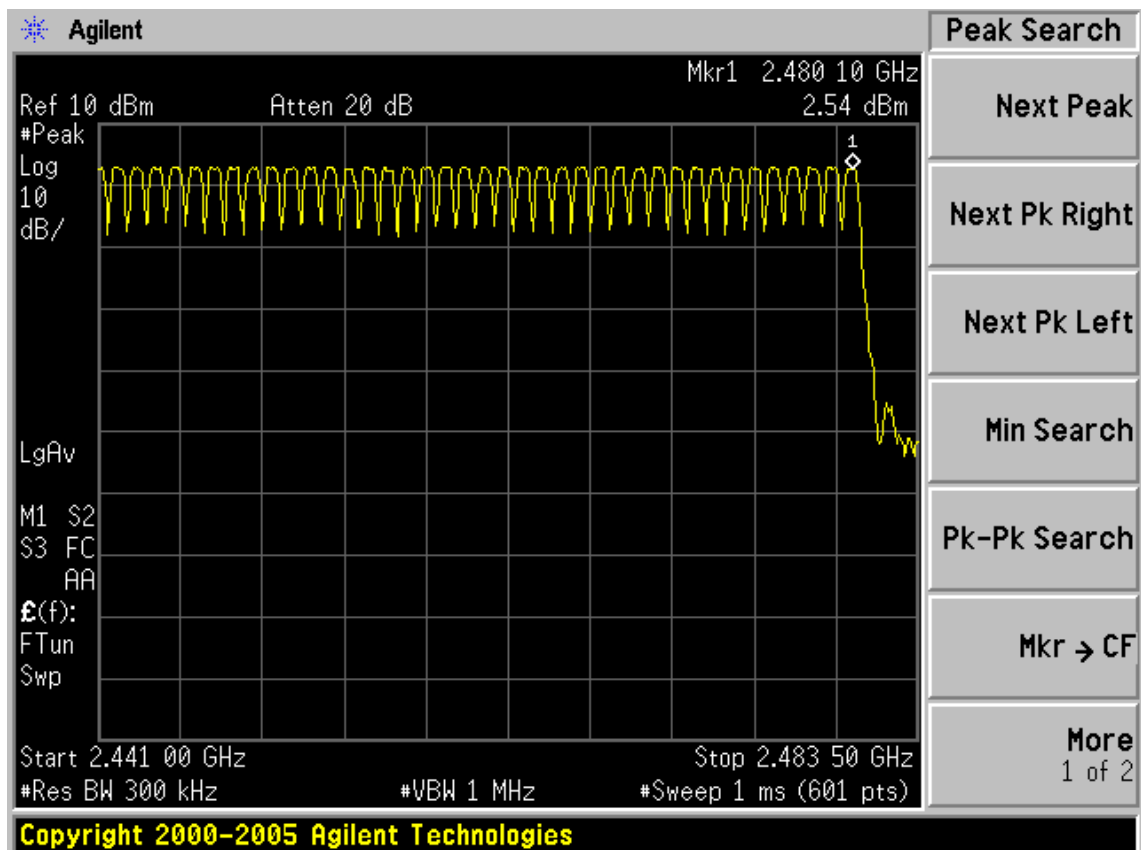
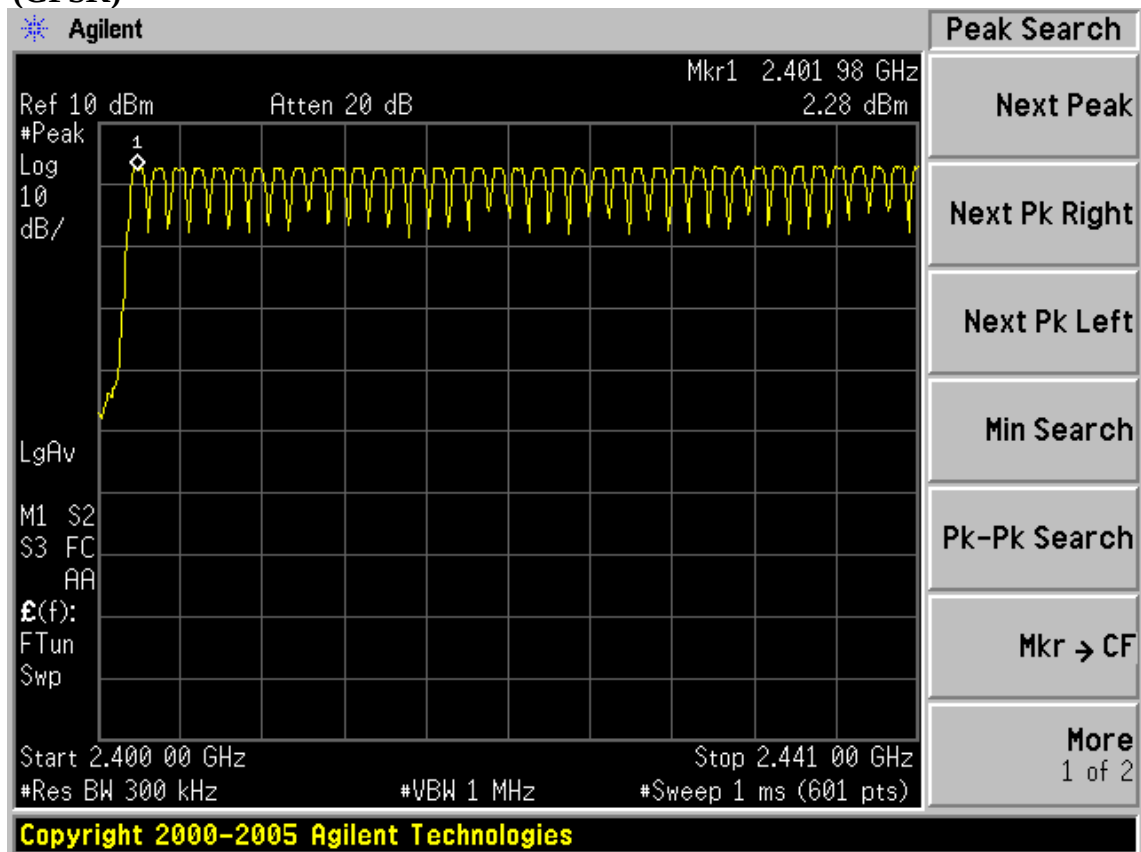
7.3. Test Results

Test Mode	Number of channel	Limit	Conclusion
8-DPSK	79	≥ 15	PASS
GFSK	79	≥ 15	PASS

(8-DPSK)



(GFSK)



8. DWELL TIME

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,08, 09	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,08, 09	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX 102	28618/2	May,08, 09	1Year

8.2. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

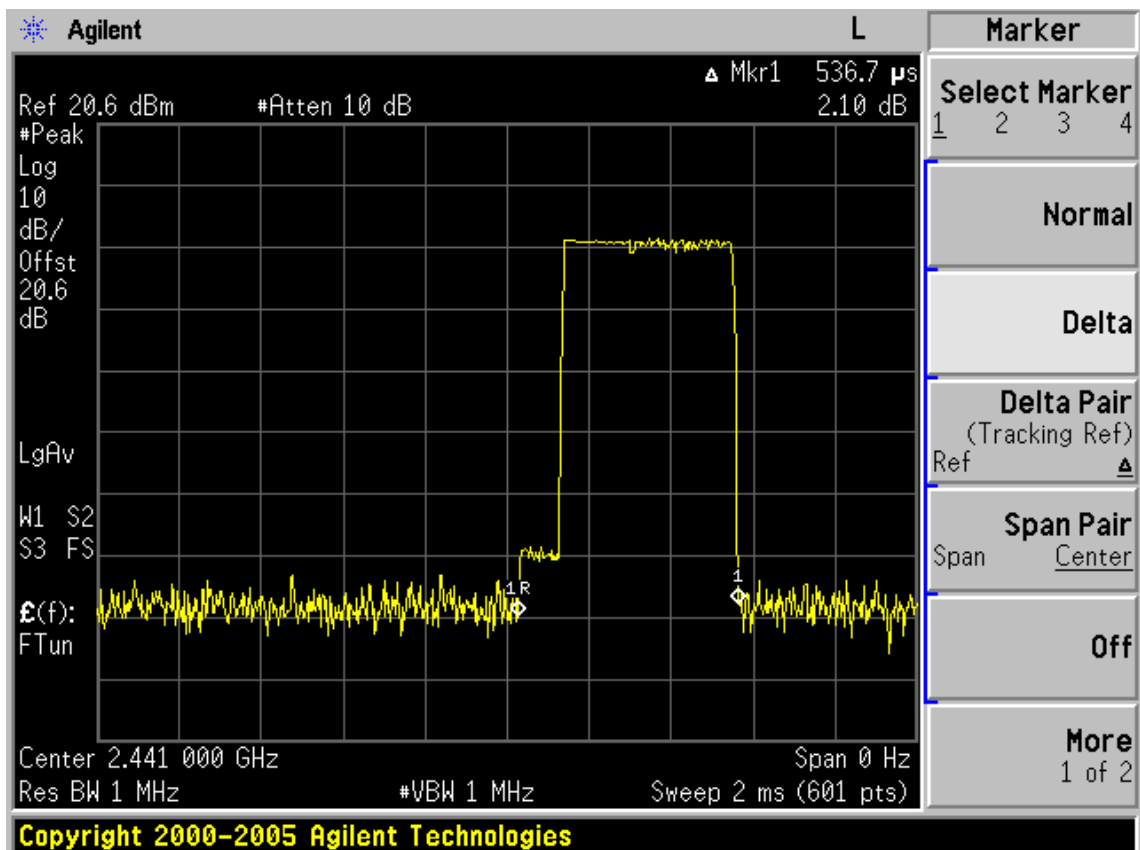
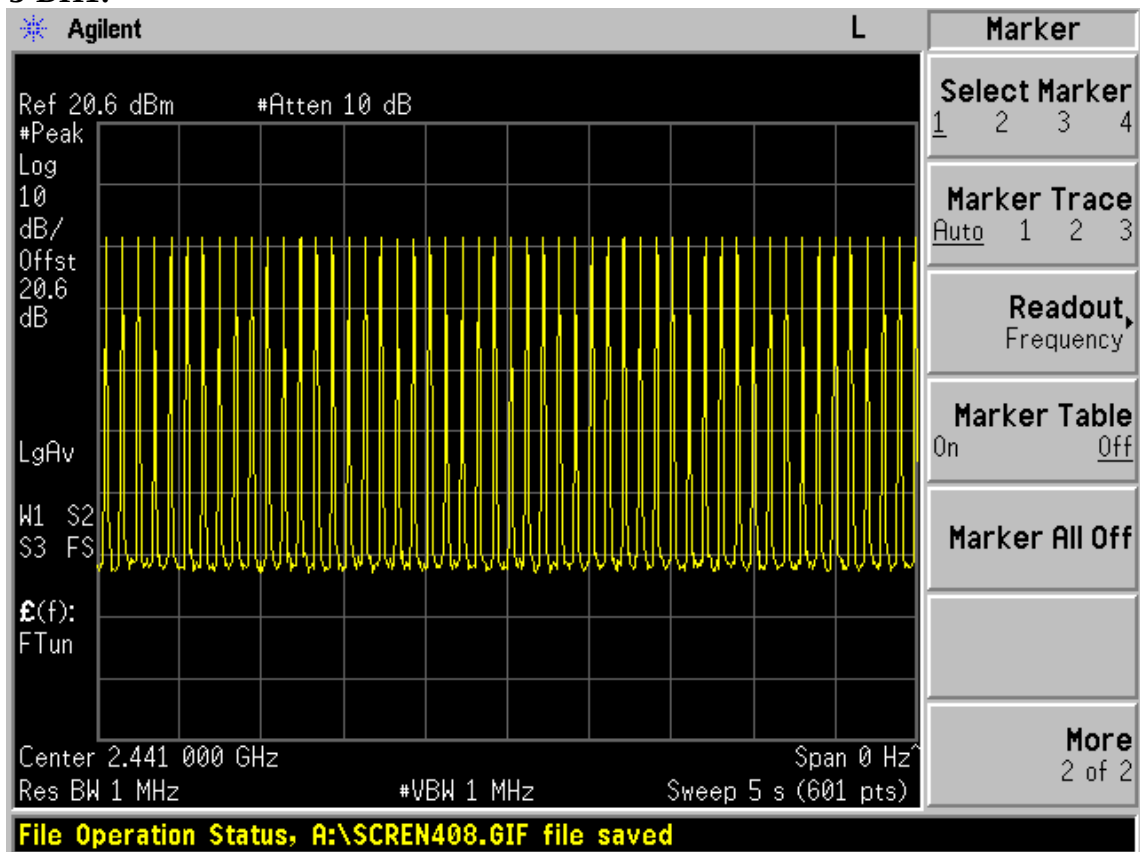
8.3. Test Results

(8-DPSK)

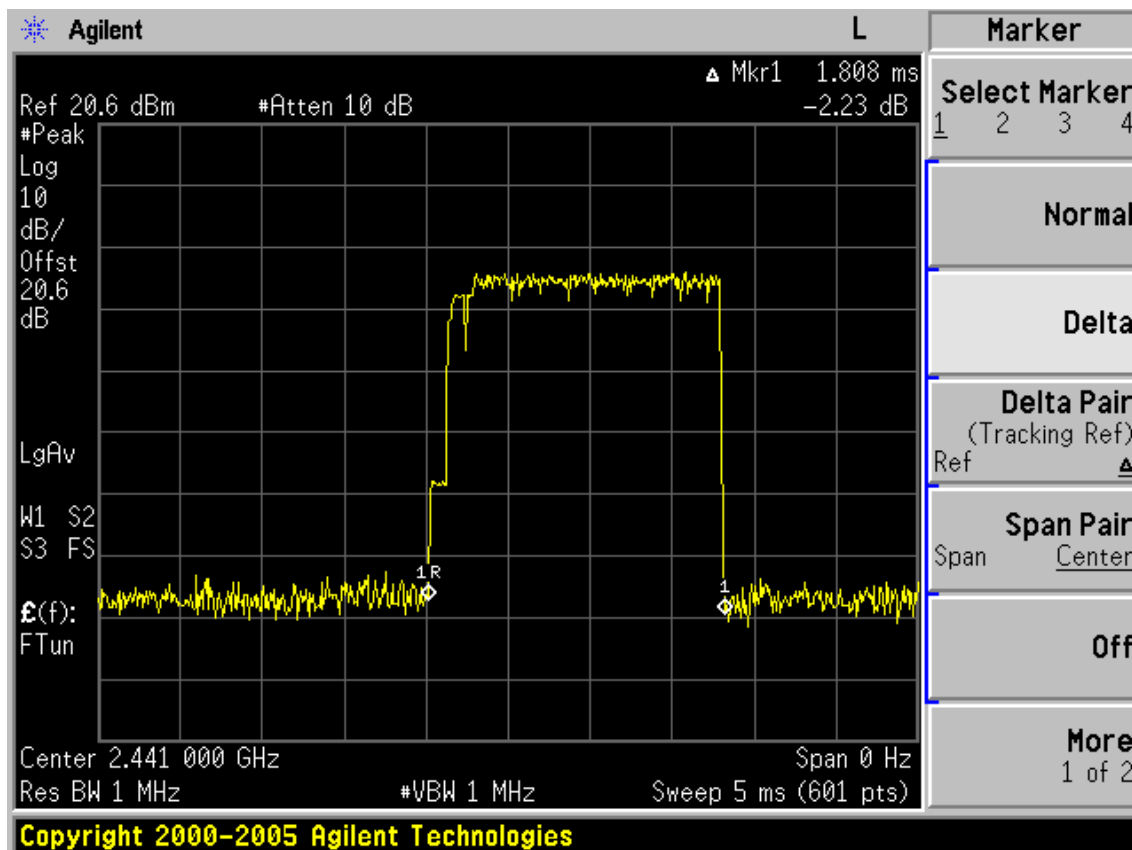
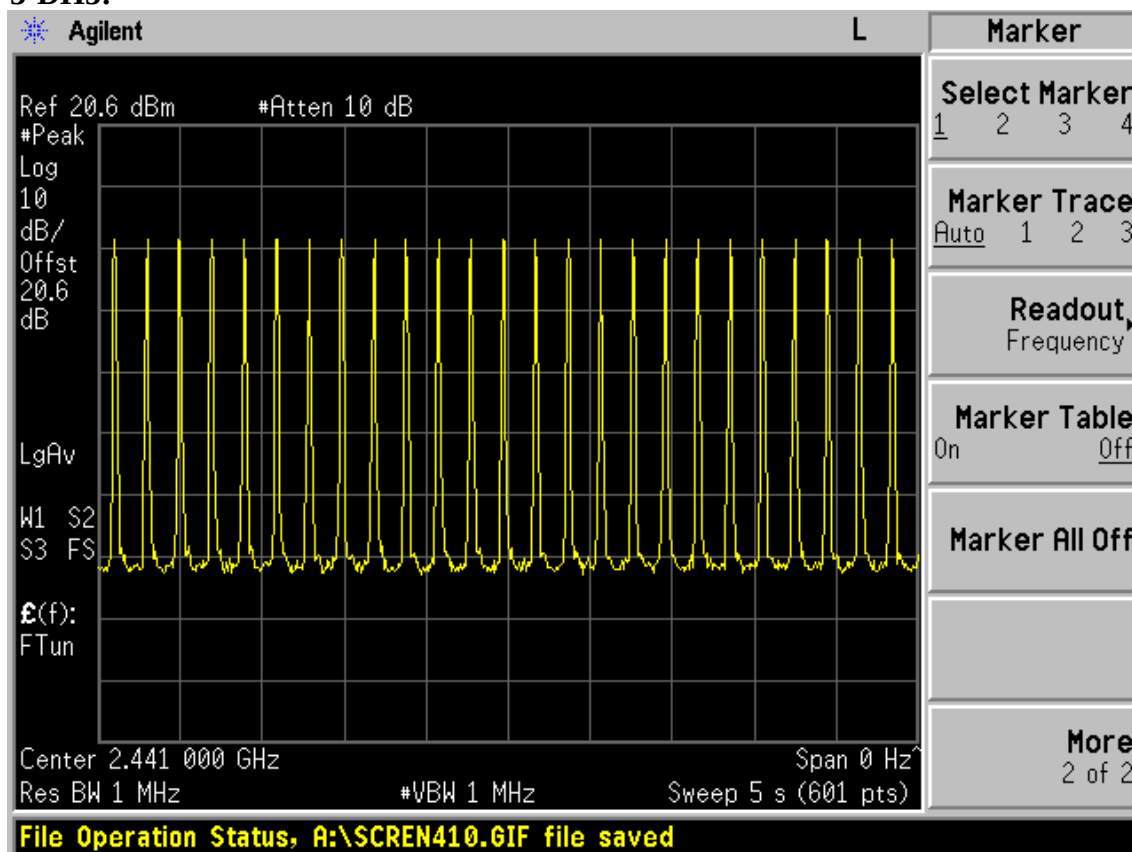
	dwel time	Limit	Conclusion
3-DH1	$51\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 0.536\text{ms} = 172.76\text{ms}$	<400ms	PASS
3-DH3	$25\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 1.808\text{ms} = 285.66\text{ms}$	<400ms	PASS
3-DH5	$17\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 3.1\text{ms} = 333.06\text{ms}$	<400ms	PASS

(GFSK)

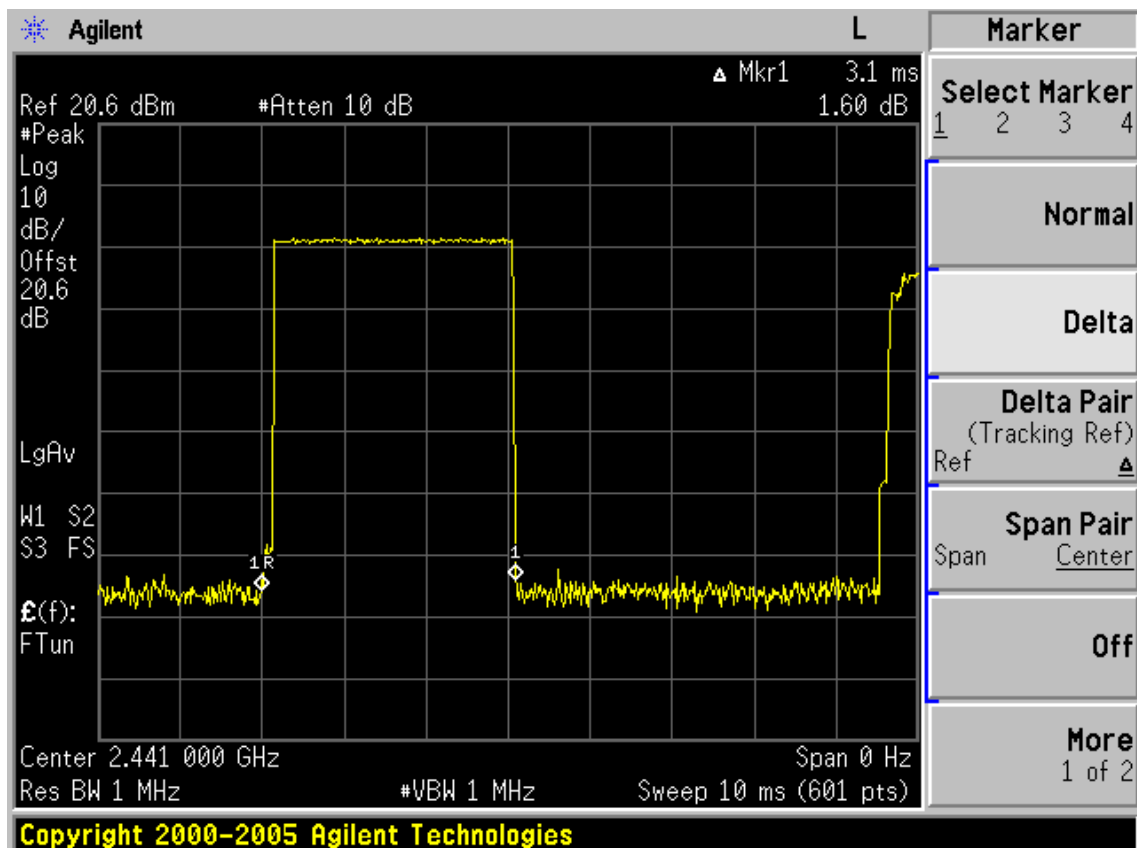
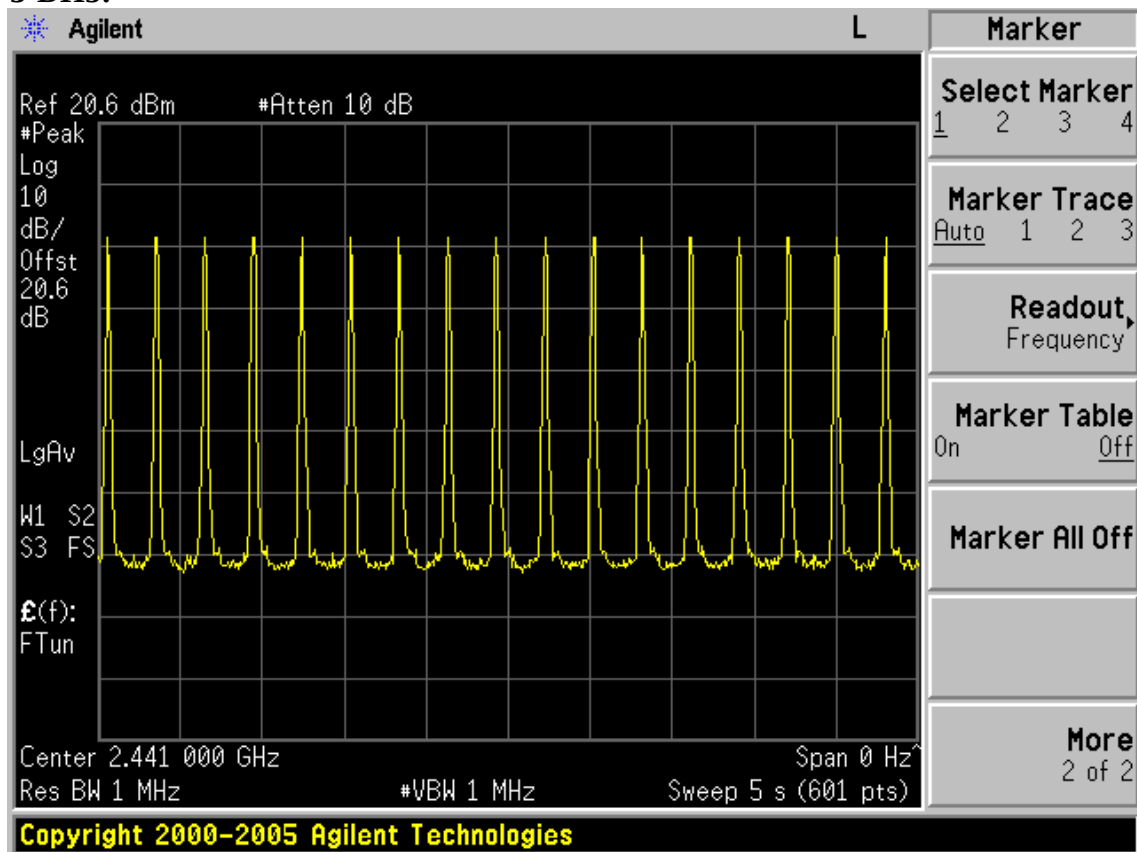
	dwel time	Limit	Conclusion
DH1	$51\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 0.523\text{ms} = 168.57\text{ms}$	<400ms	PASS
DH3	$26\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 1.783\text{ms} = 292.98\text{ms}$	<400ms	PASS
DH5	$17\text{hops}/5\text{s} \times 0.4 \times 79\text{chanel s} \times 3.05\text{ms} = 327.69\text{ms}$	<400ms	PASS

(8-DPSK)**3-DH1:**

3-DH3:

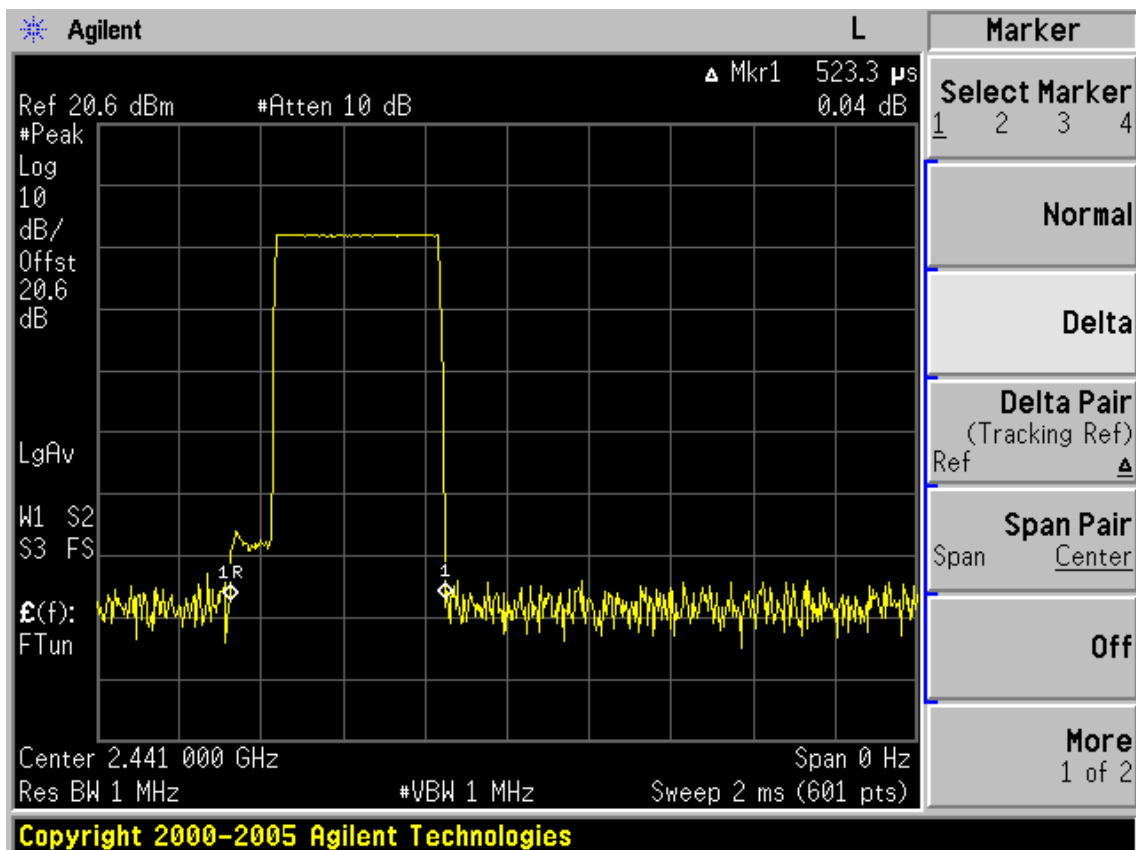
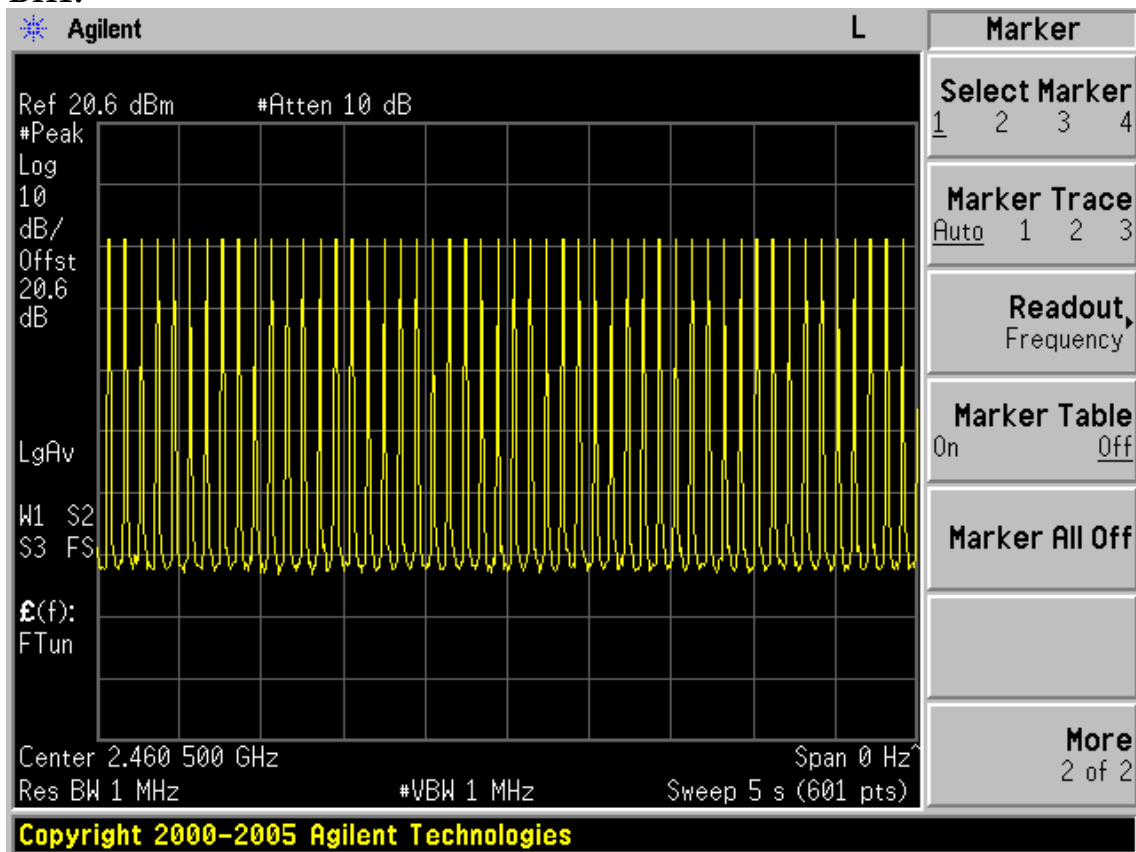


3-DH5:

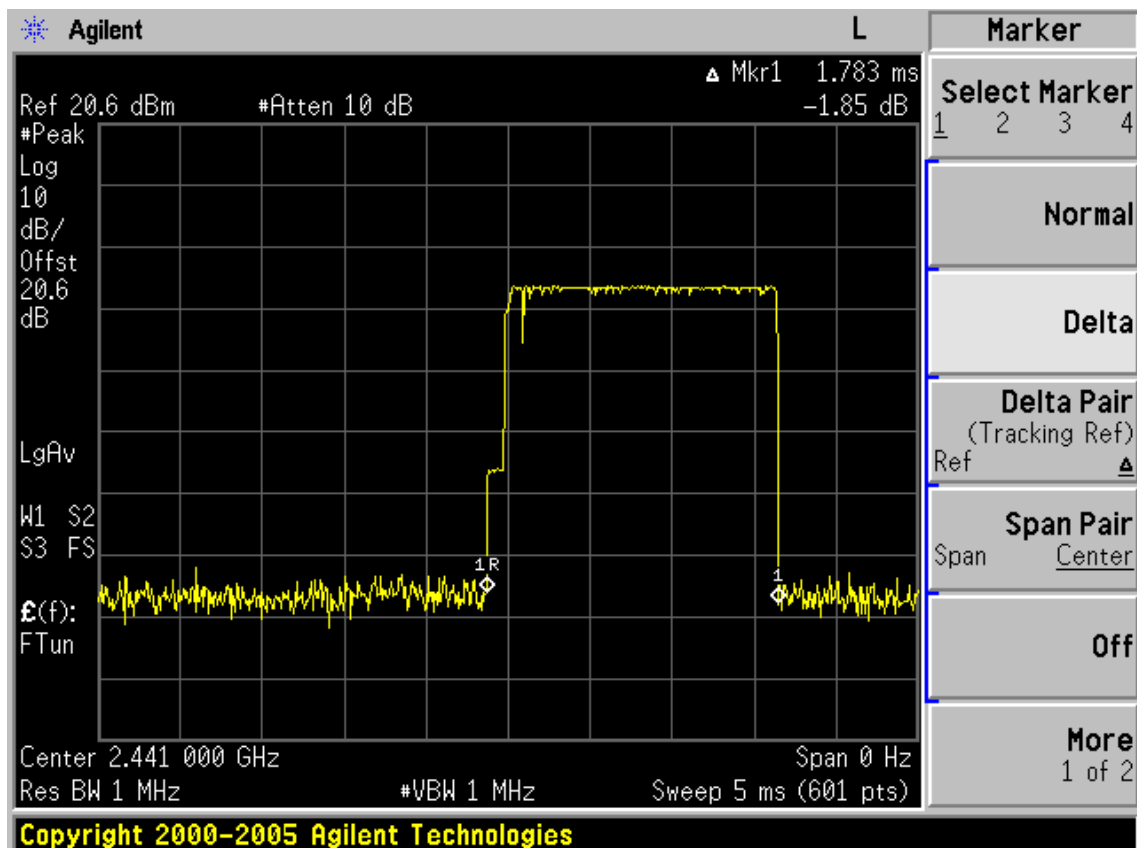
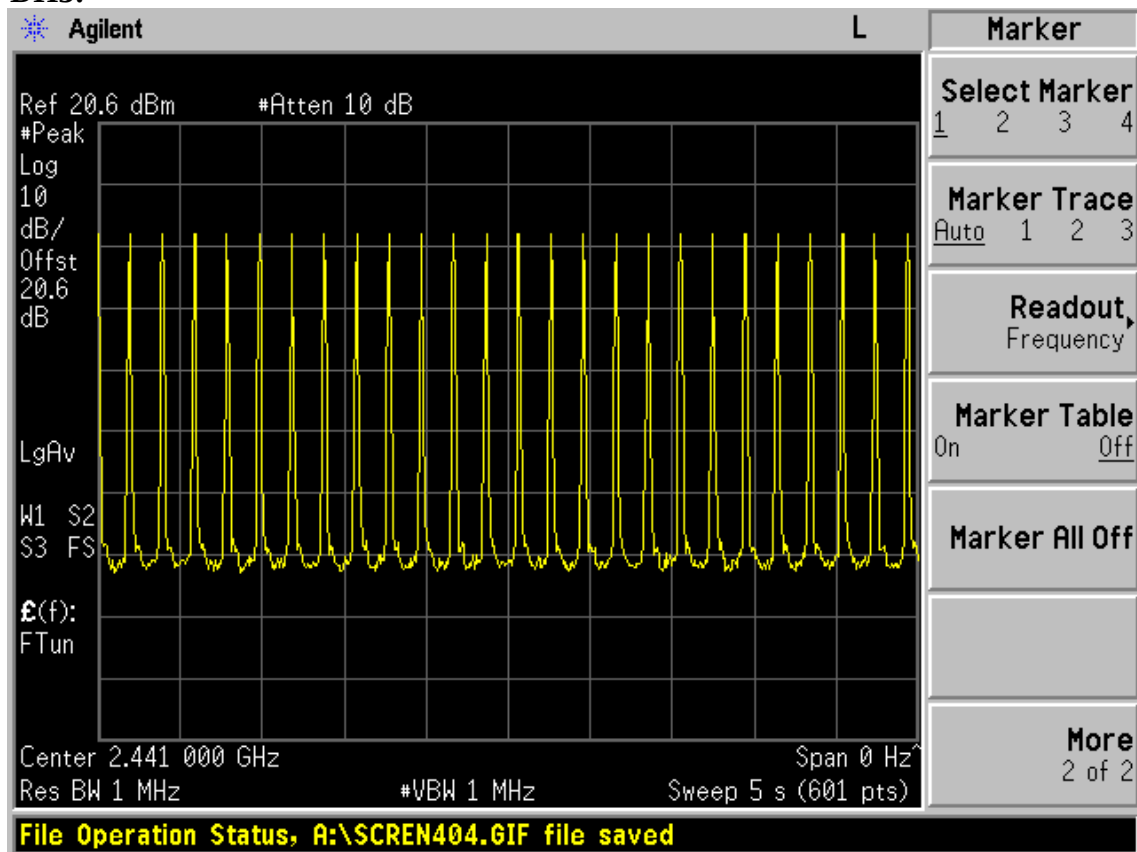


(GFSK)

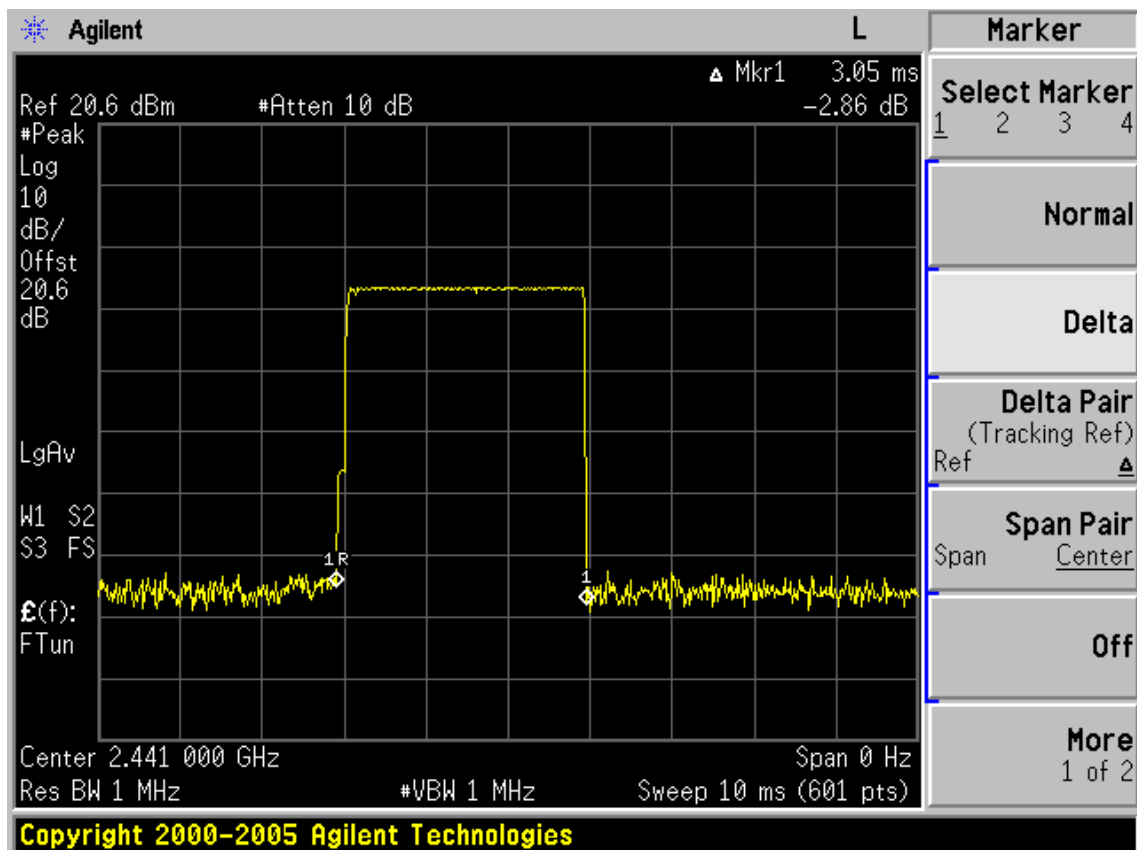
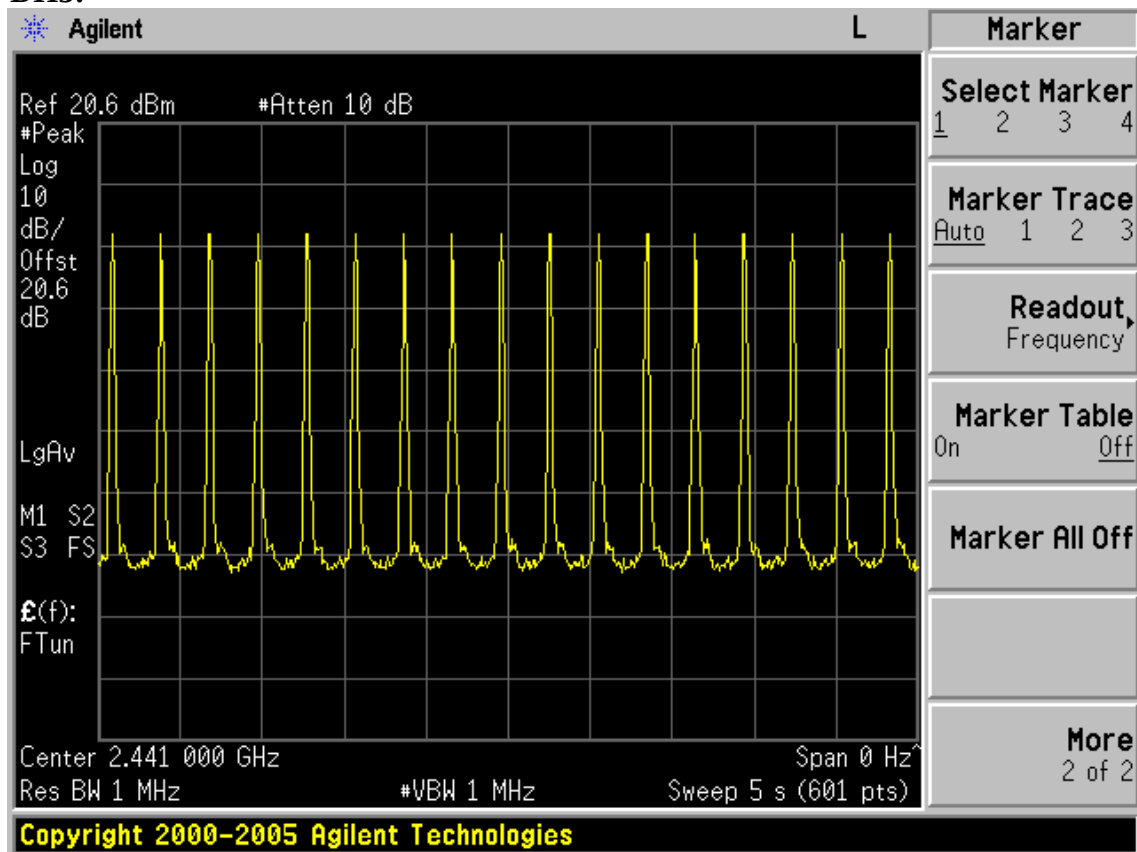
DH1:



DH3:



DH5:



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	May. 27, 08	1.5 Year
3.	Horn Antenna	EMCO	3115	9510-4580	Nov.17, 09	1.5 Year
4.	Signal Generator	HP	83732B	VS3449051	May.08, 09	1 Year
5.	Amplifier	Agilent	8449B	3008A02495	May.08, 09	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May.08, 09	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May.08, 09	1 Year
8.	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May.08, 09	1 Year
9.	RF Cable	Hubersuhner	SUCOFLEX 102	271473/4	May.08, 09	1 Year
10.	RF Cable	Hubersuhner	SUCOFLEX 102	29091/2	May.08, 09	1 Year

9.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

9.3. Test Procedure

- (1). The EUT was placed on a 0.8m high table in the chamber and turned on in continuously transmitting mode.
- (2). The maximum fundamental emission (E) at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by moved up and down antenna, the test Spectrum Analyzer was set as below
 - RBW: 1MHz (>20dB bandwidth of signal)
 - VBW: 3MHz
 - Detector: Peak

- (3). Calculate the transmitter's peak power using the following equation:

$$P = [(E \cdot D)^2] / (30G)$$

E is the measured maximum fundamental field strength in V/m

G is the numeric gain of the transmitting antenna with reference to an isotropic radiator.

D is the distance in meters from which the field strength was measured.

P is the power in watts

9.4.Test Results

EUT: i.Tech MusicClip 803						
M/N: C51-B803-XX						
Power: DC 3.7V						
Ambient Temperature:23℃				Relative Humidity: 60%		
Test date: 2009-11-18				Test site: RF site		Tested By: Power Feng
Test CH	CH1:2402MHz CH39:2441MHz CH79:2480MHz					
Mode	CH	maximum fundamental field strength at 3m(dBuV/m)	PK Output power (dBm)	Limit (dBm)	Margin (dB)	Conclusion
GFSK	CH1	99.65	2.11	30	27.89	PASS
	CH39	99.75	2.21	30	27.79	PASS
	CH79	99.78	2.24	30	27.76	PASS
8-DPSK	CH1	98.34	0.80	30	29.20	PASS
	CH39	98.63	1.09	30	28.91	PASS
	CH79	98.12	0.58	30	29.42	PASS

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 09	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May.27, 08	1.5 Year
3	Amplifier	Agilent	8449B	3008A02495	May.08, 09	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	May.08, 09	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	271471/4	May.08, 09	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX 102	29086/2	May.08, 09	1 Year

10.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

10.3.Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

10.4.Test Results

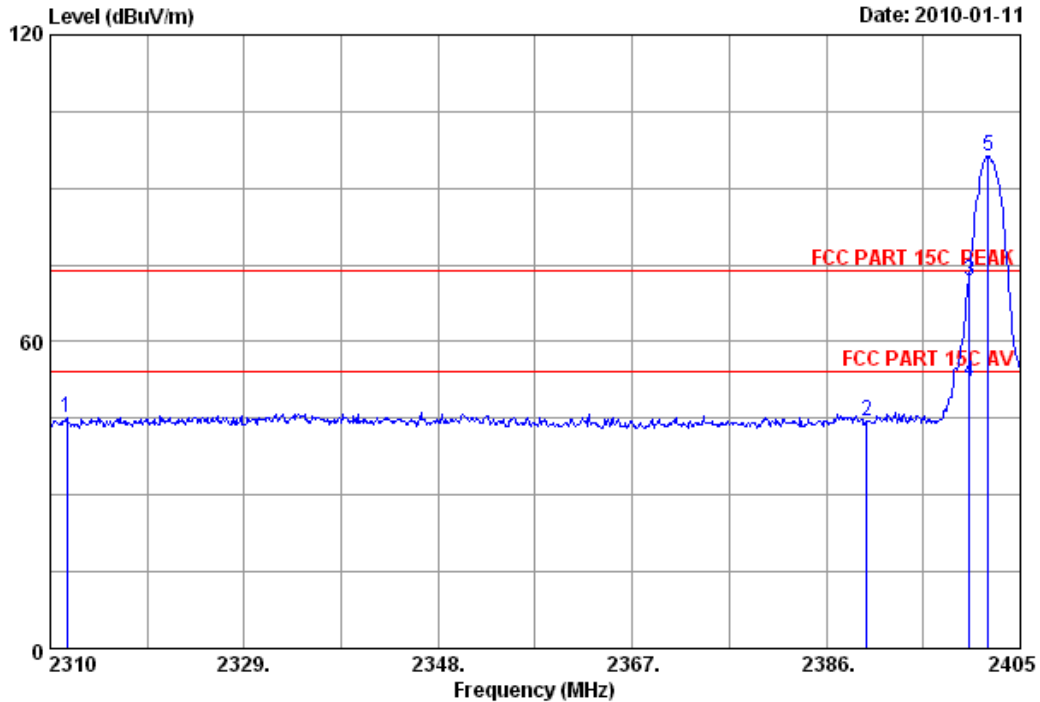
Pass (The testing data was attached in the next pages.)

(8-DPSK)



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Data: 17



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 3115(0905) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 25/54 Engineer : Power Feng
EUT : i.Tech MusicChip 803 M/N:C51-B803-XX
Power : DC 3.7v
Test mode : Tx 2402MHz
: 8DPFSK

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2311.615	28.33	8.71	35.86	44.10	45.28	74.00	28.72	Peak
2	2390.000	28.46	8.41	36.09	43.69	44.47	74.00	29.53	Peak
3	2400.000	28.46	8.60	36.09	70.99	71.96	74.00	2.04	Peak
4	2400.000	28.46	8.60	36.09	51.20	52.17	54.00	1.83	Average
5	2401.865	28.46	8.60	36.09	95.27	96.24	74.00	-22.24	Peak

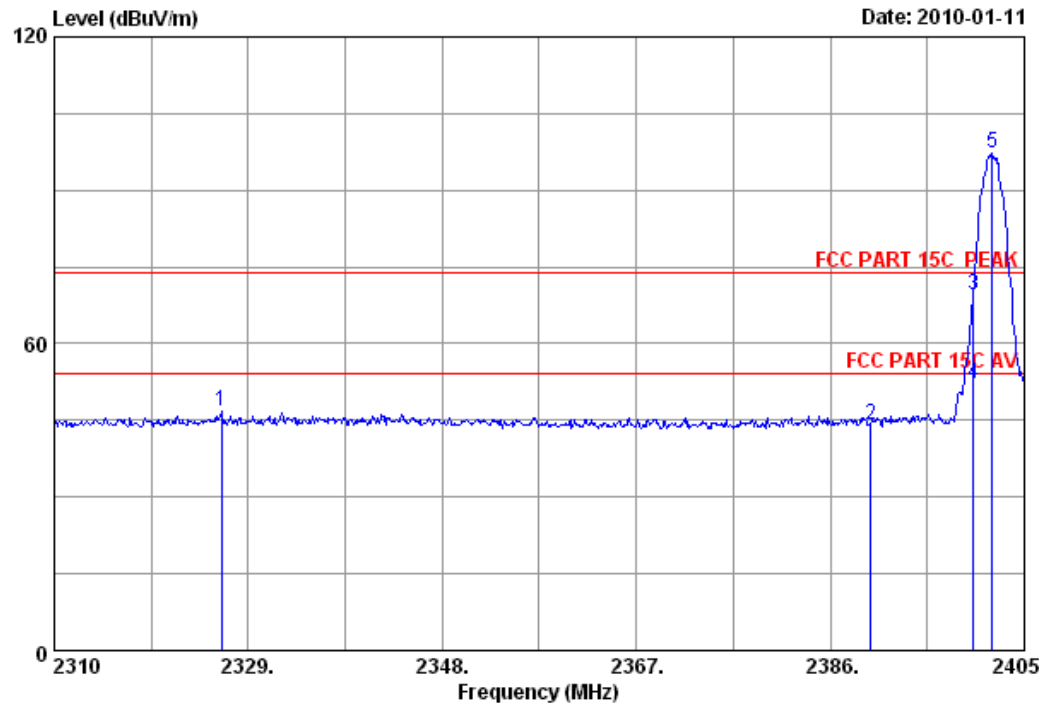
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 18



Site no.	: 3m Chamber	Data no.	: 18
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2402MHz		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2326.340	28.36	8.64	36.06	45.75	46.69	74.00	27.31	Peak
2	2390.000	28.46	8.41	36.09	43.36	44.14	74.00	29.86	Peak
3	2400.000	28.46	8.60	36.09	68.50	69.47	74.00	4.53	Peak
4	2400.000	28.46	8.60	36.09	51.22	52.19	54.00	1.81	Average
5	2401.865	28.46	8.60	36.09	96.24	97.21	74.00	-23.21	Peak

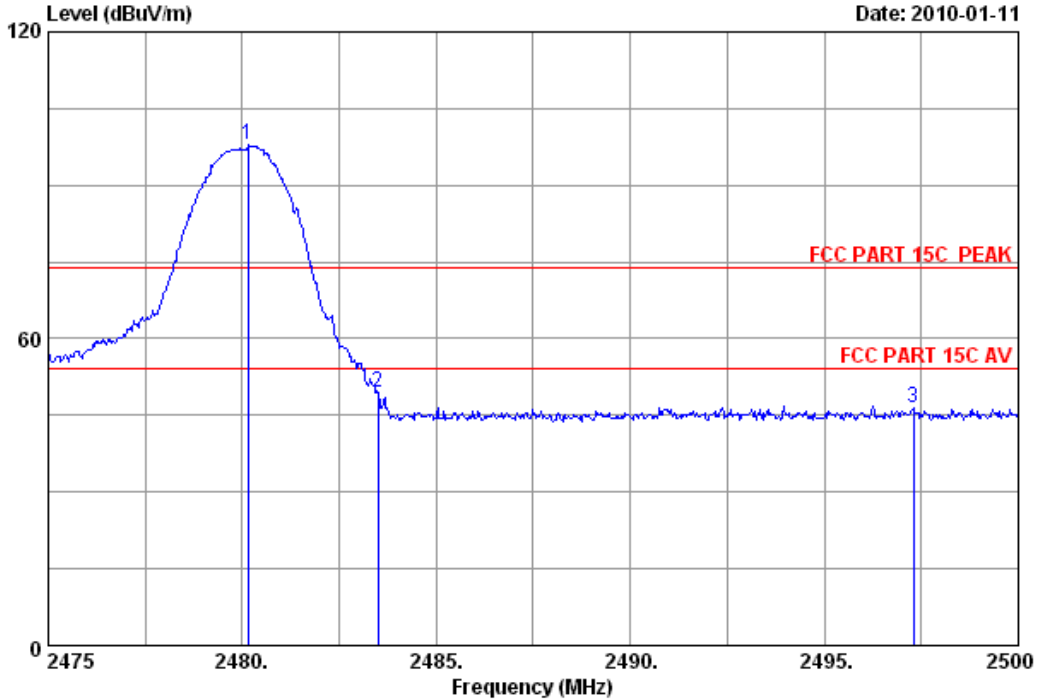
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 19



Site no.	: 3m Chamber	Data no.	: 19
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.150	28.58	8.94	35.97	96.28	97.83	74.00	-23.83	Peak
2	2483.500	28.58	8.94	35.97	47.88	49.43	74.00	24.57	Peak
3	2497.300	28.60	8.94	36.00	44.88	46.42	74.00	27.58	Peak

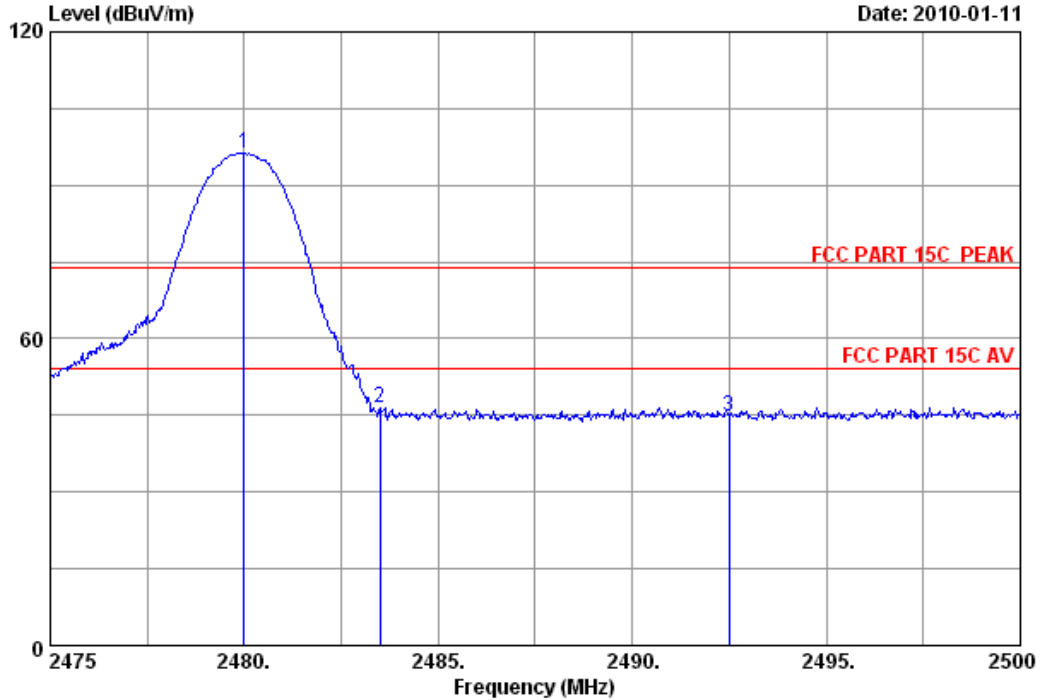
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 20



Site no.	: 3m Chamber	Data no.	: 20
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx 2480MHz		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.58	8.94	35.97	94.81	96.36	74.00	-22.36	Peak
2	2483.500	28.58	8.94	35.97	44.86	46.41	74.00	27.59	Peak
3	2492.500	28.60	8.94	36.00	43.27	44.81	74.00	29.19	Peak

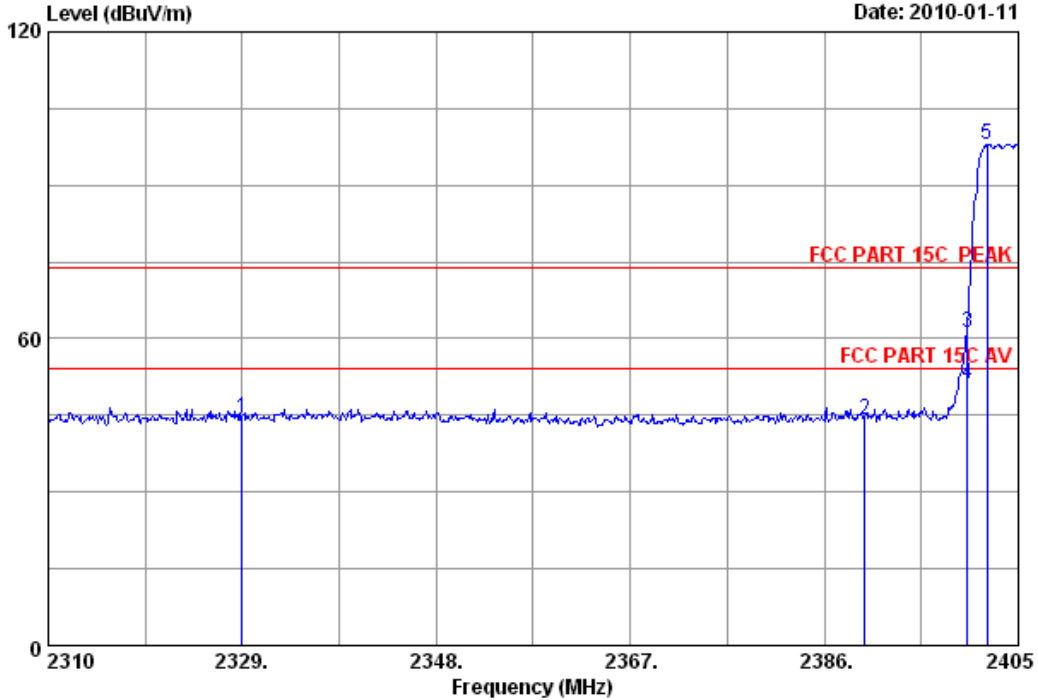
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 21



Site no.	: 3m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx hopping on		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2329.000	28.36	8.64	36.06	43.60	44.54	74.00	29.46	Peak
2	2390.000	28.46	8.41	36.09	43.42	44.20	74.00	29.80	Peak
3	2400.000	28.46	8.60	36.09	60.11	61.08	74.00	12.92	Peak
4	2400.000	28.46	8.60	36.09	50.11	51.08	54.00	2.92	Average
5	2401.960	28.46	8.60	36.09	96.95	97.92	74.00	-23.92	Peak

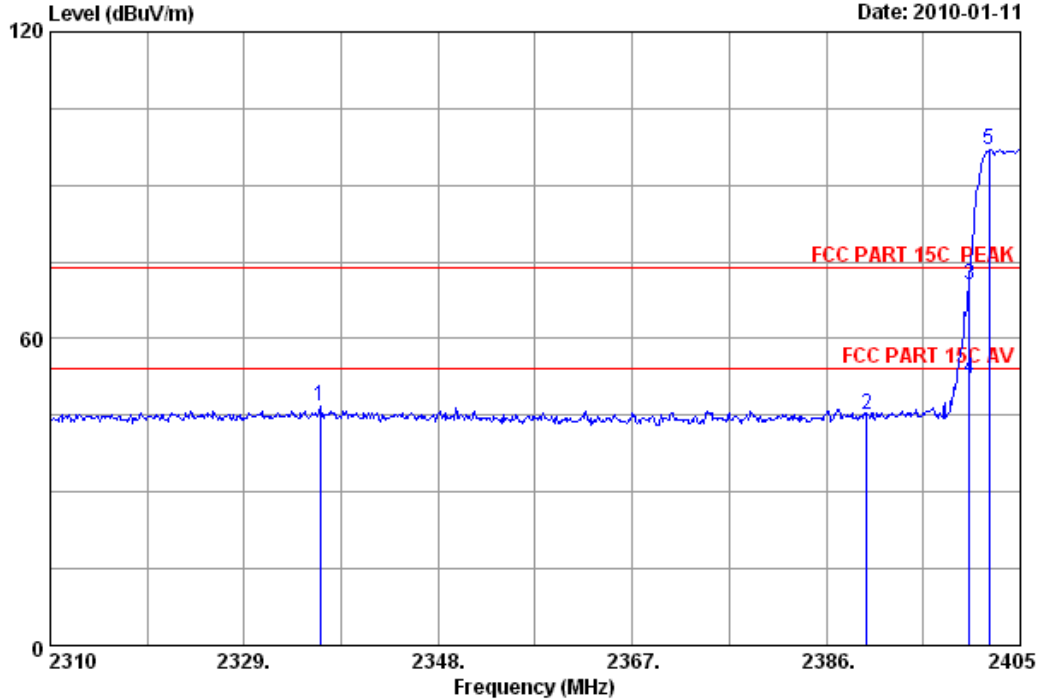
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Postcode:518057

Data: 22



Site no.	: 3m Chamber	Data no.	: 22
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx hopping on		
	: 8DPFSK		

	Freq.	Ant.	Cable	Amp.		Emission			
	(MHz)	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2336.410	28.38	8.64	35.99	45.80	46.83	74.00	27.17	Peak
2	2390.000	28.46	8.41	36.09	44.49	45.27	74.00	28.73	Peak
3	2400.000	28.46	8.60	36.09	69.46	70.43	74.00	3.57	Peak
4	2400.000	28.46	8.60	36.09	51.20	52.17	54.00	1.83	Average
5	2401.960	28.46	8.60	36.09	95.90	96.87	74.00	-22.87	Peak

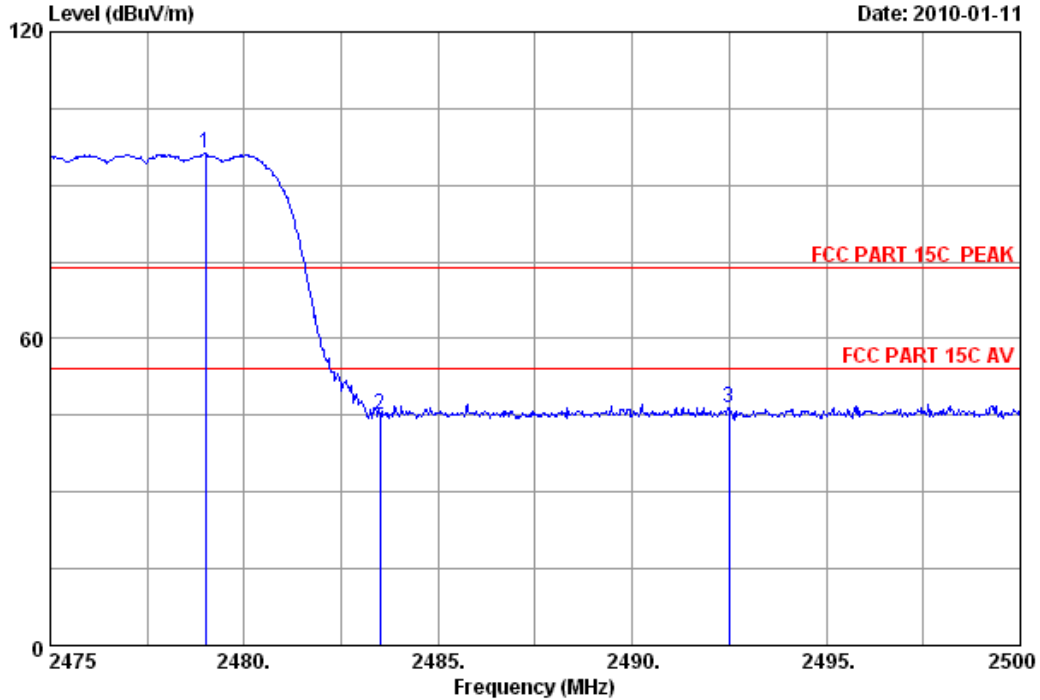
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 23



Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx hopping on		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.000	28.58	8.94	35.97	94.58	96.13	74.00	-22.13	Peak
2	2483.500	28.58	8.94	35.97	43.71	45.26	74.00	28.74	Peak
3	2492.500	28.60	8.94	36.00	44.82	46.36	74.00	27.64	Peak

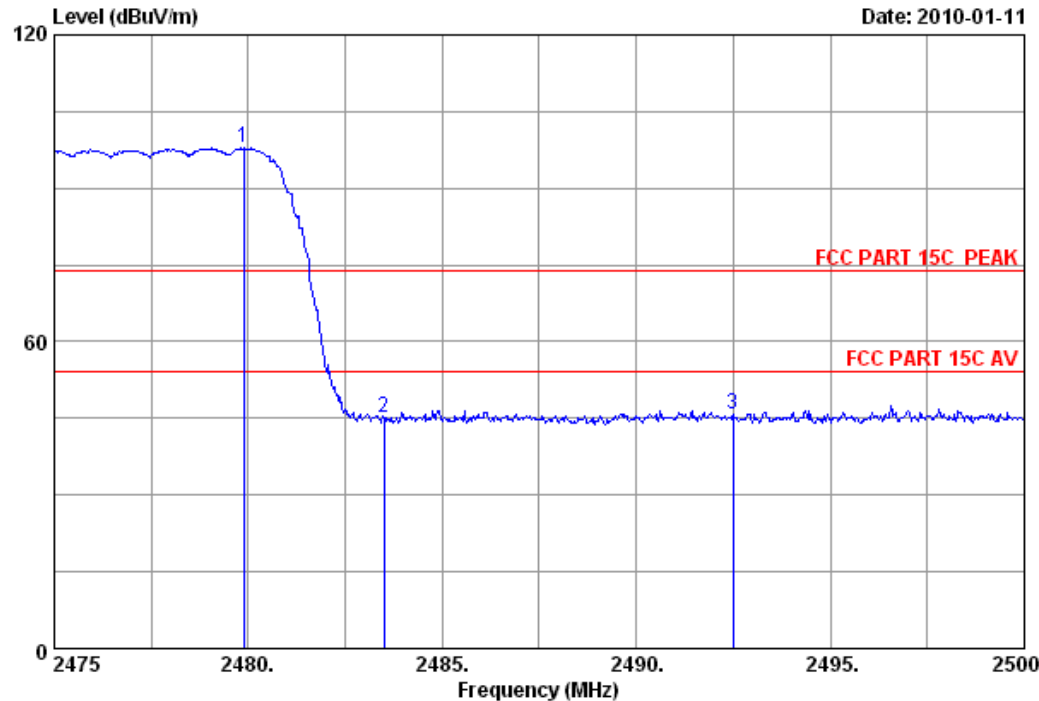
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 24



Site no.	: 3m Chamber	Data no.	: 24
Dis. / Ant.	: 3m 3115(0905)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 25/54	Engineer	: Power Feng
EUT	: i.Tech MusicChip 803	M/N:	C51-B803-XX
Power	: DC 3.7v		
Test mode	: Tx hopping on		
	: 8DPFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.875	28.58	8.94	35.97	96.36	97.91	74.00	-23.91	Peak
2	2483.500	28.58	8.94	35.97	43.41	44.96	74.00	29.04	Peak
3	2492.500	28.60	8.94	36.00	44.35	45.89	74.00	28.11	Peak

Remarks:

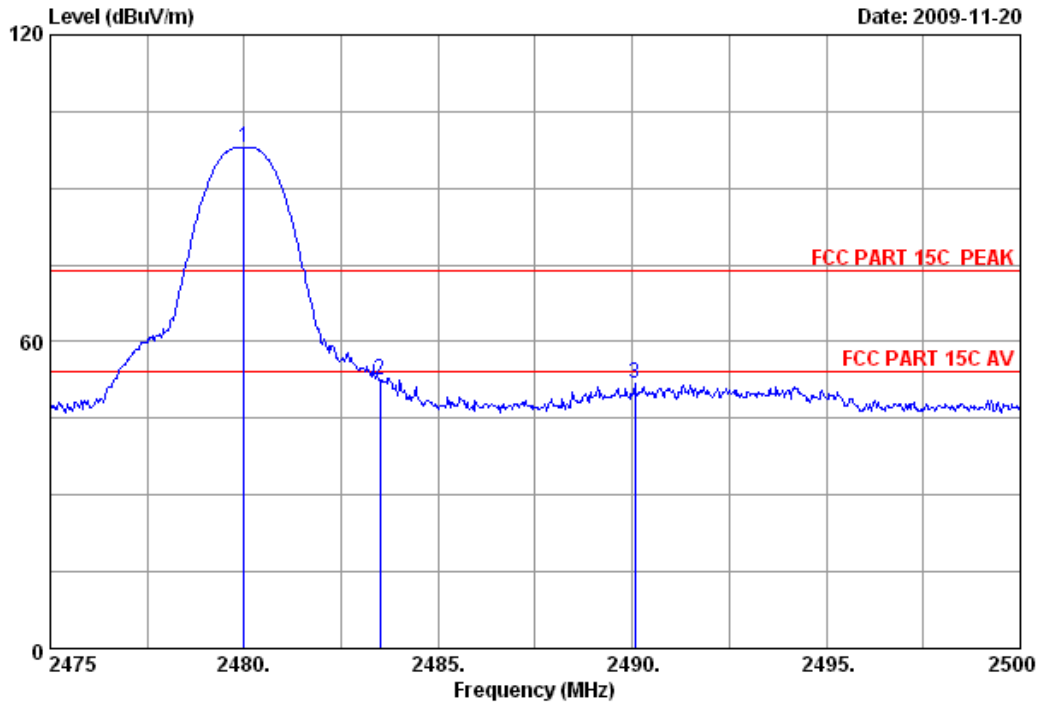
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

(GFSK)



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Data: 21



Site no.	: 3m Chamber	Data no.	: 21
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2480MHz-bandege GFSK		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.58	6.87	35.10	97.53	97.88	74.00	-23.88	Peak
2	2483.500	28.58	6.87	35.10	52.29	52.64	74.00	21.36	Peak
3	2490.075	28.60	6.91	35.10	51.26	51.67	74.00	22.33	Peak

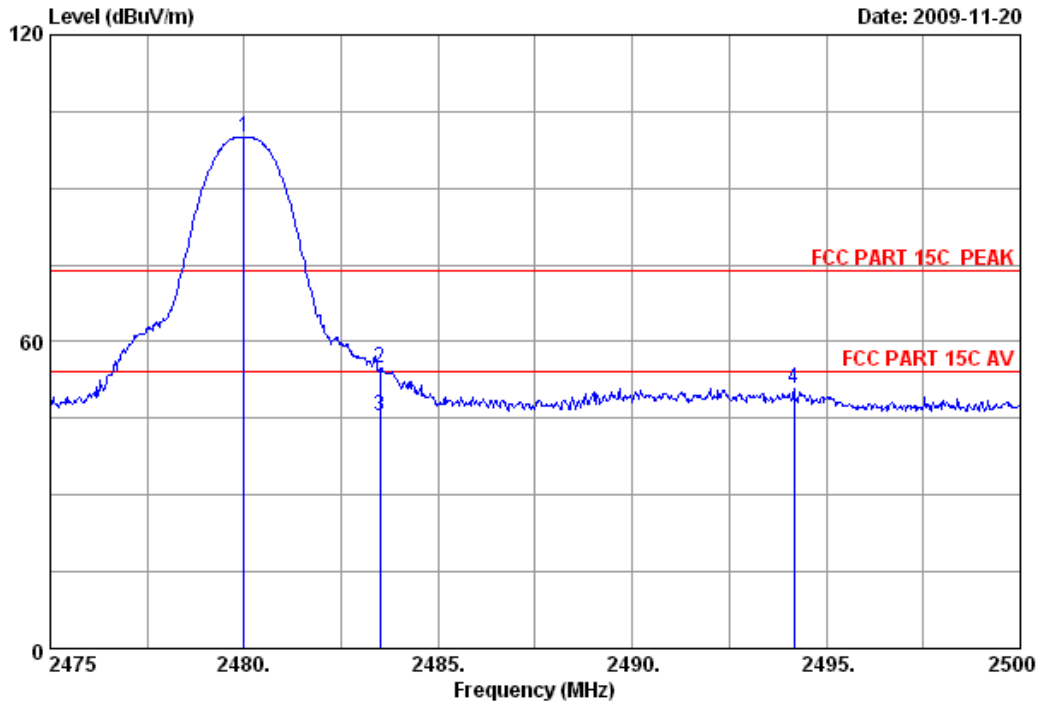
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 22



Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Alan Geng
EUT : i.Tech MusicClip 803 M/N:C51-B803-XX
Power supply : DC 3.7V
Test mode : Tx-2480MHz-bandege GFSK

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.000	28.58	6.87	35.10	99.46	99.81	74.00	-25.81	Peak
2	2483.500	28.58	6.87	35.10	54.57	54.92	74.00	19.08	Peak
3	2483.500	28.58	6.87	35.10	45.27	45.62	74.00	28.38	Average
4	2494.175	28.60	6.91	35.10	50.38	50.79	74.00	23.21	Peak

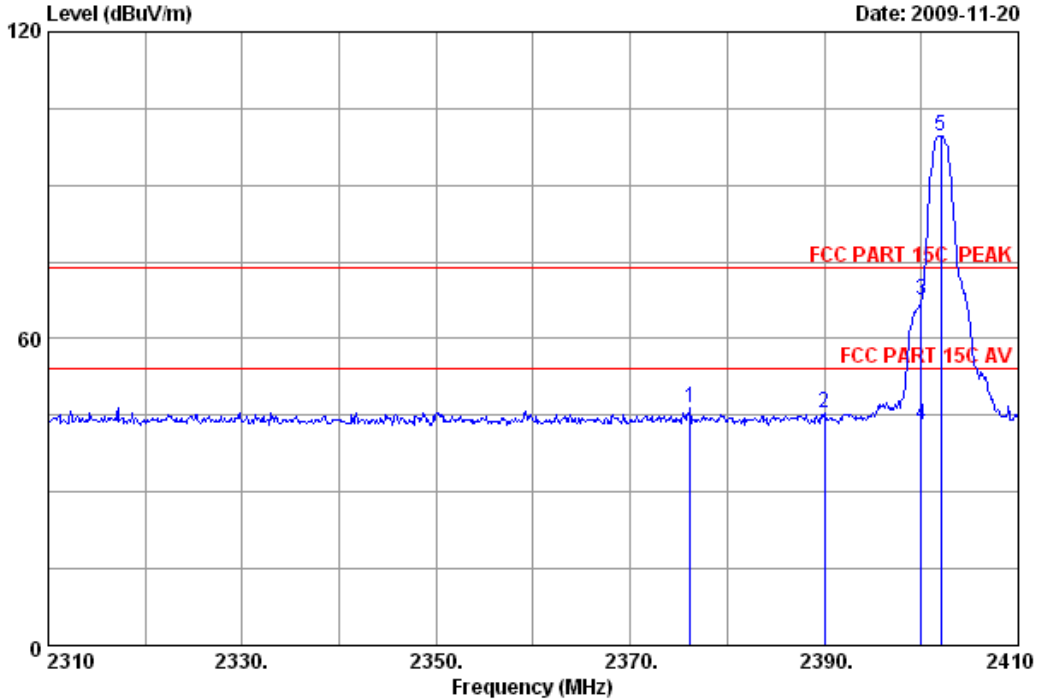
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 35



Site no.	: 3m Chamber	Data no.	: 35
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2402MHz-bandege GFSK		

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2376.200	28.43	6.71	35.12	46.38	46.40	74.00	27.60	Peak
2	2390.000	28.46	6.71	35.12	45.28	45.33	74.00	28.67	Peak
3	2400.000	28.46	6.73	35.12	67.35	67.42	74.00	6.58	Peak
4	2400.000	28.46	6.73	35.12	43.00	43.07	54.00	10.93	Average
5	2402.000	28.46	6.73	35.12	99.59	99.66	74.00	-25.66	Peak

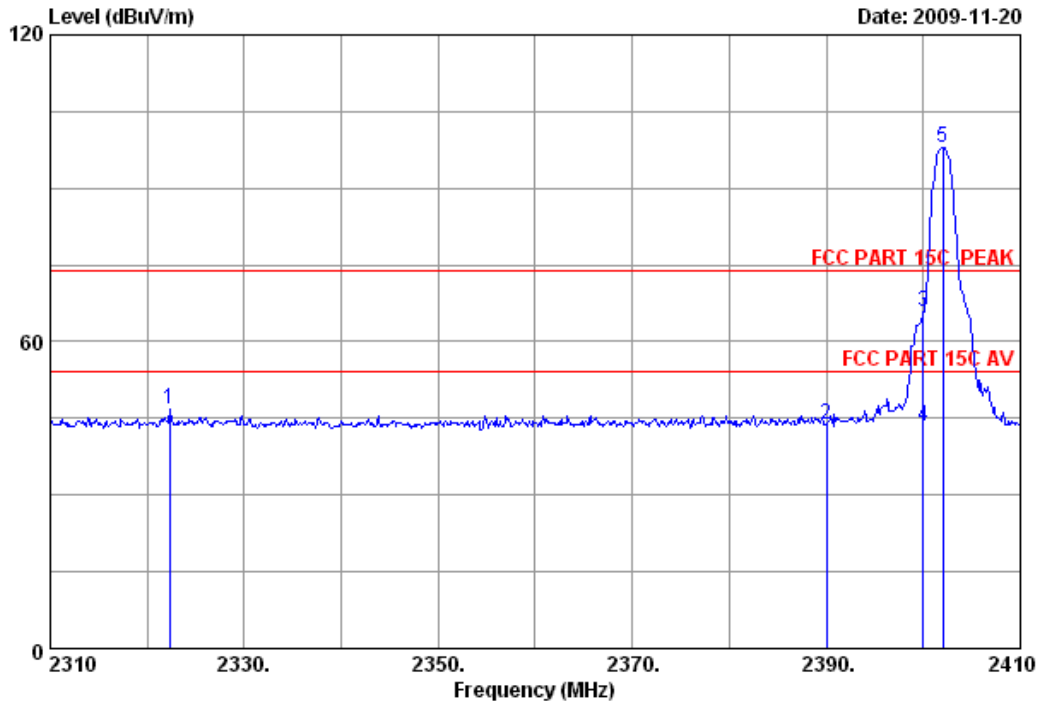
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 36



Site no.	: 3m Chamber	Data no.	: 36
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Tx-2402MHz-bandege GFSK		
M/N	: PD3040XYBT/ZZAA		

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)	
1	2322.300	28.36	6.65	35.13	46.82	46.70	74.00	27.30	Peak
2	2390.000	28.46	6.71	35.12	43.64	43.69	74.00	30.31	Peak
3	2400.000	28.46	6.73	35.12	65.73	65.80	74.00	8.20	Peak
4	2400.000	28.46	6.73	35.12	43.26	43.33	54.00	10.67	Average
5	2402.000	28.46	6.73	35.12	97.73	97.80	74.00	-23.80	Peak

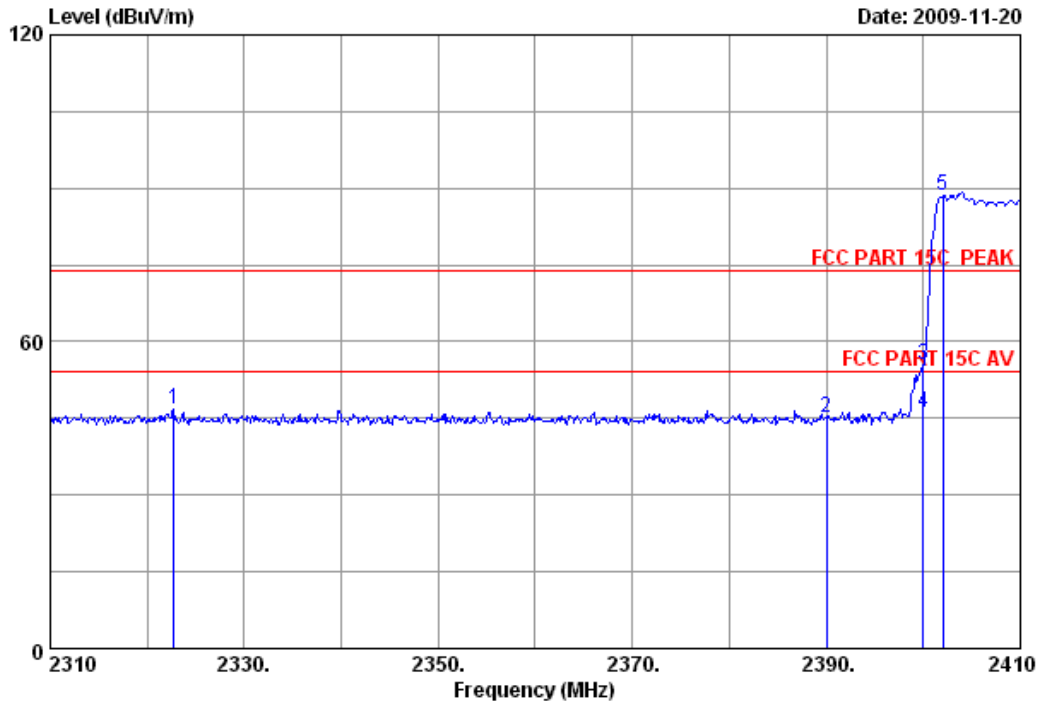
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 37



Site no.	: 3m Chamber	Data no.	: 37
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Hopping bandedge GFSK		
M/N	: PD3040XYBT/ZZAA		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2322.700	28.36	6.65	35.13	46.82	46.70	74.00	27.30	Peak
2	2390.000	28.46	6.71	35.12	45.19	45.24	74.00	28.76	Peak
3	2400.000	28.46	6.73	35.12	55.48	55.55	74.00	18.45	Peak
4	2400.000	28.46	6.73	35.12	46.18	46.25	54.00	7.75	Average
5	2402.000	28.46	6.73	35.12	88.35	88.42	74.00	-14.42	Peak

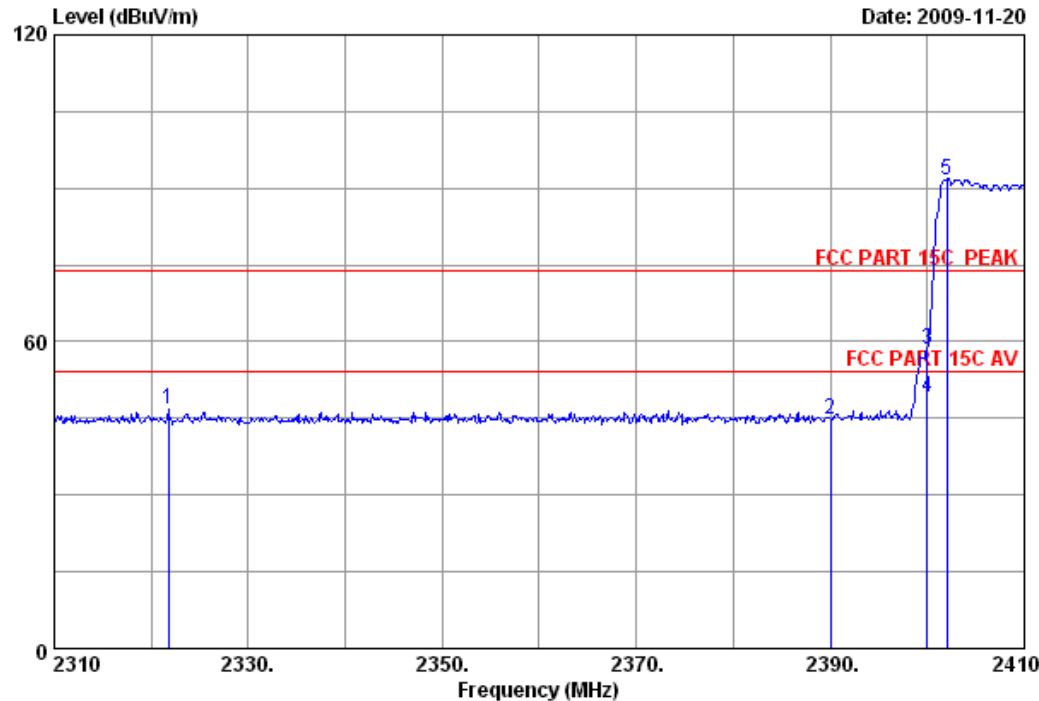
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 38



Site no.	: 3m Chamber	Data no.	: 38
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK	Engineer	: Alan Geng
Env. / Ins.	: 23°C/54%	M/N:	C51-B803-XX
EUT	: i.Tech MusicClip 803		
Power supply	: DC 3.7V		
Test mode	: Hopping bandedge GFSK		
M/N	: PD3040XYBT/ZZAA		

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dbuv)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2321.800	28.36	6.65	35.13	47.08	46.96	74.00	27.04	Peak
2	2390.000	28.46	6.71	35.12	44.78	44.83	74.00	29.17	Peak
3	2400.000	28.46	6.73	35.12	58.47	58.54	74.00	15.46	Peak
4	2400.000	28.46	6.73	35.12	49.17	49.24	54.00	4.76	Average
5	2402.000	28.46	6.73	35.12	91.68	91.75	74.00	-17.75	Peak

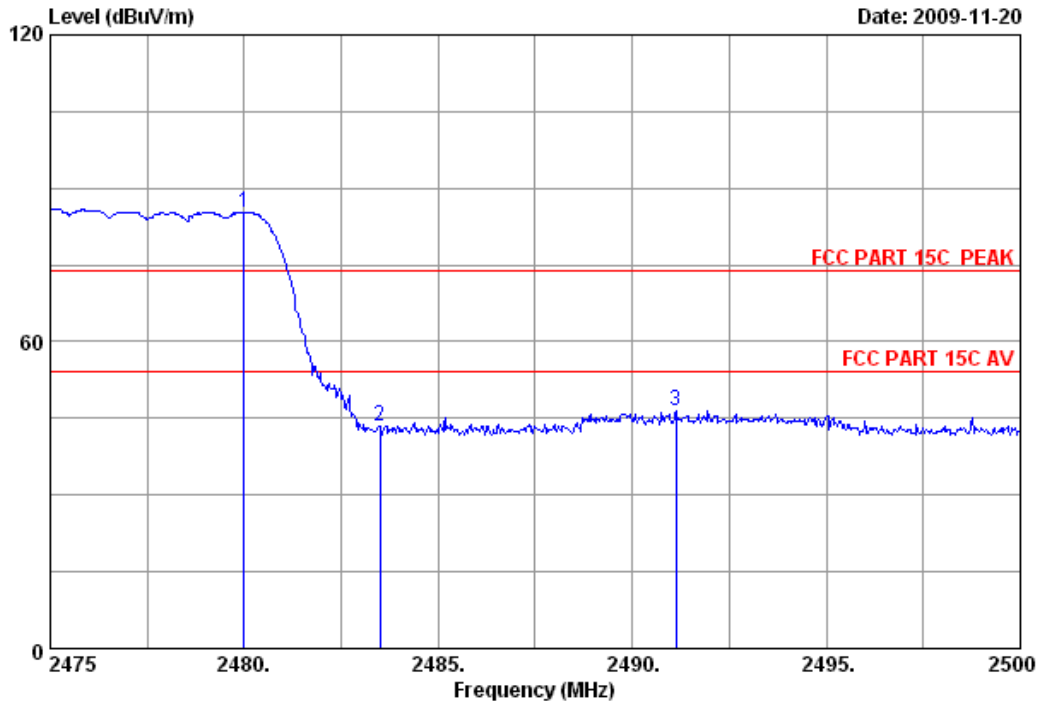
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 39



Site no.	: 3m Chamber	Data no.	: 39
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Hopping bandedge GFSK		
M/N	: PD3040XYBT/ZZAA		

	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)		
1 2480.000	28.58	6.87	35.10	84.89	85.24	74.00	-11.24	Peak	
2 2483.500	28.58	6.87	35.10	43.06	43.41	74.00	30.59	Peak	
3 2491.125	28.60	6.91	35.10	45.91	46.32	74.00	27.68	Peak	

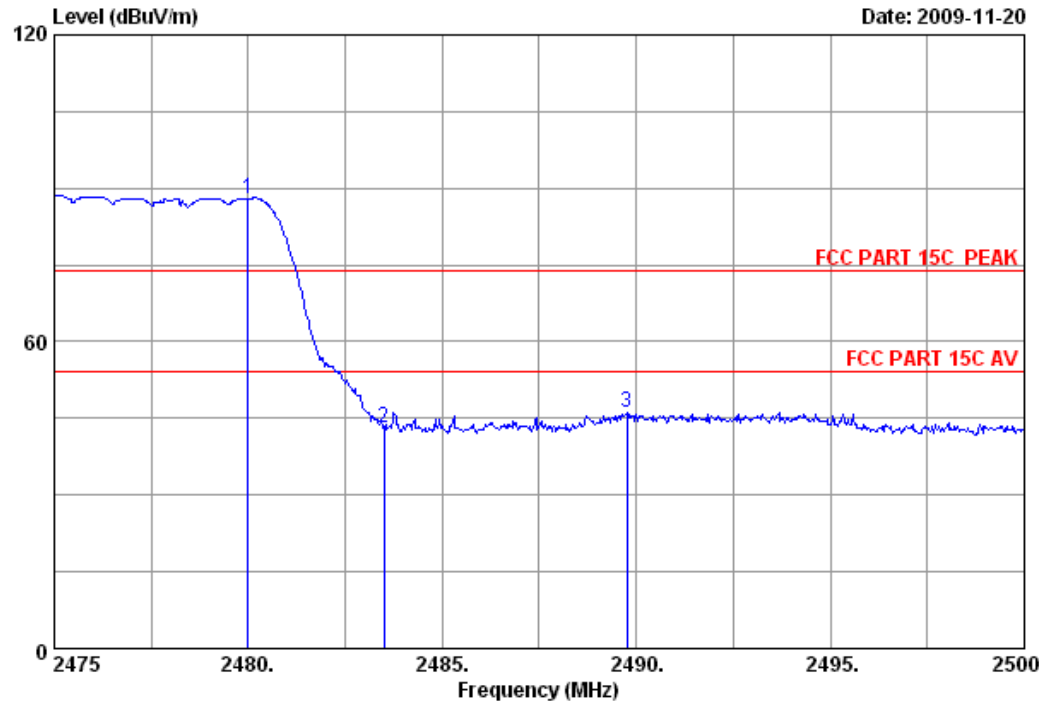
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Data: 40



Site no.	: 3m Chamber	Data no.	: 40
Dis. / Ant.	: 3m 3115	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Alan Geng
EUT	: i.Tech MusicClip 803	M/N:	C51-B803-XX
Power supply	: DC 3.7V		
Test mode	: Hopping bandedge GFSK		

		Ant.	Cable	Amp.		Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dbuv)	(dBuV/m)	(dBuV/m)	(dB)		
1	2480.000	28.58	6.87	35.10	87.65	88.00	74.00	-14.00	Peak	
2	2483.500	28.58	6.87	35.10	42.79	43.14	74.00	30.86	Peak	
3	2489.750	28.60	6.91	35.10	45.70	46.11	74.00	27.89	Peak	

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

11. ANTENNA REQUIREMENT

11.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is an integral antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of this antenna is only 2.3dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]