



TEST REPORT

For

Applicant : Wonders Technology Co.,Ltd

DOSS Industrial Zone, Qiping Kengdu Industrial

**Address : Area Guihua Village, Guanlan Town Baoan District,
ShenZhen, China**

Product Name : Dynamite Wireless Speaker

Model Name : HX-P340, DS-1605

Brand Name : HMDX

FCC ID : WC2-HXP340

Report No. : MTE/SAL/A15020235

Date of Issue : Feb. 13, 2015

Issued by : Most Technology Service Co., Ltd.

**Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial
Park, Nanshan, Shenzhen, Guangdong, China**

Tel : 86-755-8602 6850

Fax : 86-755-2698 0464

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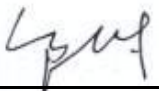
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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Dynamite Wireless Speaker
Brand Name: HMDX
Model Number: HX-P340
FCC ID: WC2-HXP340
Applicant: Wonders Technology Co.,Ltd
 DOSS Industrial Zone, Qiping Kengdu Industrial Area Guihua
 Village, Guanlan Town Baoan District, ShenZhen, China
Manufacturer: Wonders Technology Co.,Ltd
 DOSS Industrial Zone, Qiping Kengdu Industrial Area Guihua
 Village, Guanlan Town Baoan District, ShenZhen, China
Technical Standards: 47 CFR Part 15 Subpart C
File Number: MTE/SAL/A15020235
Date of test: Feb. 09 - Feb.12, 2015
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature): 
 Sophia Liu Feb. 09-12, 2015
 Review by (+ signature): 

 Henry Chen Feb. 13, 2015
 Approved by (+ signature): 
 Yvette Zhou(Manager) Feb. 13, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product	Dynamite Wireless Speaker
Brand Name	HMDX
Model Number	HX-P340
Series Model Name:	DS-1605
Series Model Difference description:	Only difference in model name
Power Supply	DC 5V by USB Port
Frequency Range	2402MHz -2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technique	FHSS
Channel Number	79
Antenna Type	Internal PCB Antenna, 0dBi
Temperature Range	0°C ~ +45°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to RSS-210 Issue 8, RSS-102 Issue 4 and RSS-Gen Issue 4 for the EUT IC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
1	FCC 15.247 (i)	RF EXPOSURE	PASS	2015-02-10
2	FCC 15.203	Antenna Requirement	PASS	2015-02-10
3	FCC15.207 (a)	AC Power Line Conducted Emission	PASS	2015-02-11
4	FCC15.209, 15.247(d)	Radiated Emission	PASS	2015-02-12
5	FCC 15.247 (b)(1)	Conducted Peak Output Power	PASS	2015-02-10
6	FCC 15.247 (a)(1)	20dB Emission Bandwidth	PASS	2015-02-10
7	FCC 15.247 (a)(1)	Carrier Frequency Separation	PASS	2015-02-10
8	FCC 15.247 (a)(1)(iii)	Number of Hopping Channel	PASS	2015-02-10
9	FCC 15.247 (a)(1) (iii)	Dwell Time	PASS	2015-02-10
10	FCC15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	2015-02-10
11	FCC15.247(d)	Restricted Frequency Bands	PASS	2015-02-09

Note: 1. The test result judgment is decided by the limit of measurement standard
 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014 and CISPR 16 requirements. The FCC Registration Number is 490827 . The IC Registration Number is 7103A-1 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument	All measuring equipment is in accord with ANSI C63.4:2014 and CISPR 16
Tolerance:	requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2014.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2014, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Notebook	Lenovo	E425	R9-KZL4B	1.6m Un-shielded	1.8m Un-shielded

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2014/03/10	1 Year
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year
4	Terminator	Hubersuhner	50Ω	No.1	2014/03/07	1 Year
5	RF Cable	SchwarzBeck	N/A	No.1	2014/03/07	1 Year
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2014/03/10	1 Year
7	Bilog Antenna	Sunol	JB3	A121206	2014/03/14	1 Year
8	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2014/03/14	1 Year
9	Horn Antenna	Penn Engineering	9034	8376	2014/03/14	1 Year
10	Cable	Resenberger	N/A	NO.1	2014/03/07	1 Year
11	Cable	SchwarzBeck	N/A	NO.2	2014/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.3	2014/03/07	1 Year
13	DC Power Filter	DuoJi	DL2×30B	N/A	2014/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2014/03/07	1 Year
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2014/03/07	1 Year
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year
17	Absorbing Clamp	Luthi	MDS21	3635	2014/03/12	1 Year
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year
19	AC Power Source	Kikusui	AC40MA	LM003232	2014/03/10	1 Year
20	Test Analyzer	Kikusui	KHA1000	LM003720	2014/03/10	1 Year
21	Line Impedance Network	Kikusui	LIN40MA-PCR-L	LM002352	2014/03/10	1 Year
22	ESD Tester	Kikusui	KES4021	LM003537	2014/03/07	1 Year
23	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2014/03/10	1 Year
24	Signal Generator	IFR	2032	203002/100	2014/03/10	1 Year
25	Amplifier	A&R	150W1000	301584	2014/03/14	1 Year
26	CDN	FCC	FCC-801-M2-25	47	2014/03/10	1 Year
27	CDN	FCC	FCC-801-M3-25	107	2014/03/10	1 Year
28	EM Injection Clamp	FCC	F-203I-23mm	403	2014/03/10	1 Year
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2014/03/10	1 Year
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2014/03/10	1 Year
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2014/03/10	1 Year
32	Telecommunication Test Equipment	R&S	CMU200	N/A	2014/03/07	1 Year
33	8 Loop Antenna	ARA	PLA-1030/B	1029	2015/01/10	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RF EXPOSURE

5.1.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.1.2 Measurement Result

The maximum conducted output power = 4.412 dBm (2.76 mW) at 2402 MHz $\left[\frac{\text{(max. power of channel, mW)}}{\text{(min. test separation distance, mm)}} \right] [\sqrt{f(\text{GHz})}]$

$$= 2.76/5 \cdot (\sqrt{2.402}) = 0.85 < 3.0$$

So the stand-alone SAR evaluation is not necessary.

5.2 ANTENNA REQUIREMENT

5.2.1 Applicable Standard

According to FCC § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2.2 Evaluation Criteria

(a) Antenna must be permanently attached to the unit.

(b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.2.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 0 dBi, fulfill the requirement of this section.

5.3 AC Power Line Conducted Emission

5.3.1 Requirement

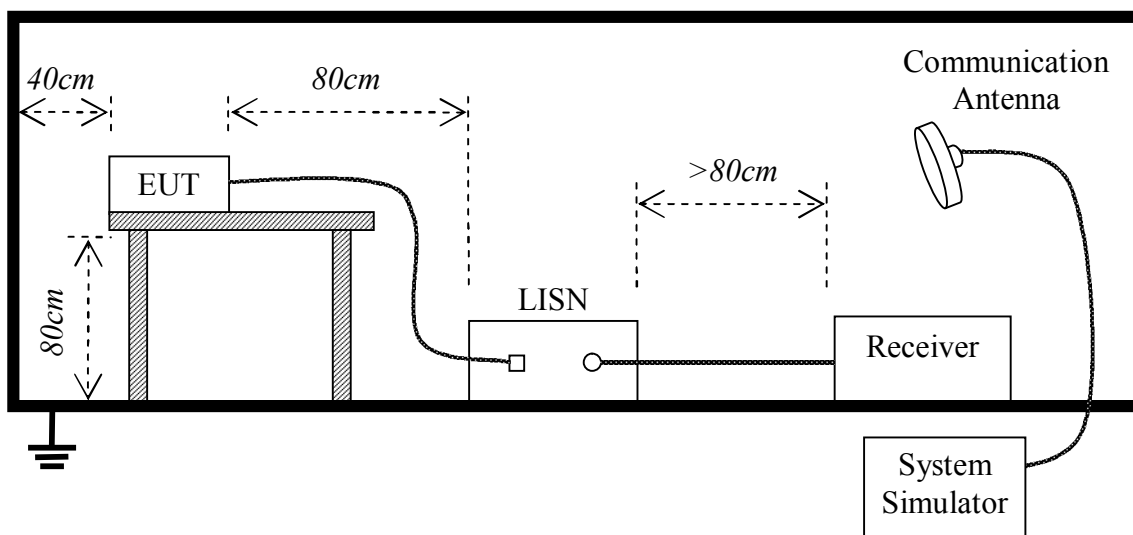
A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

****Note:** 1. the lower limit shall apply at the band edges.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 Block Diagram of Test Setup



5.3.3 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.
4. The bandwidth of test receiver (ESCI) set at 9 KHz.
5. All data was recorded in the Quasi-peak and average detection mode.

5.3.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Conducted Emission Measurement

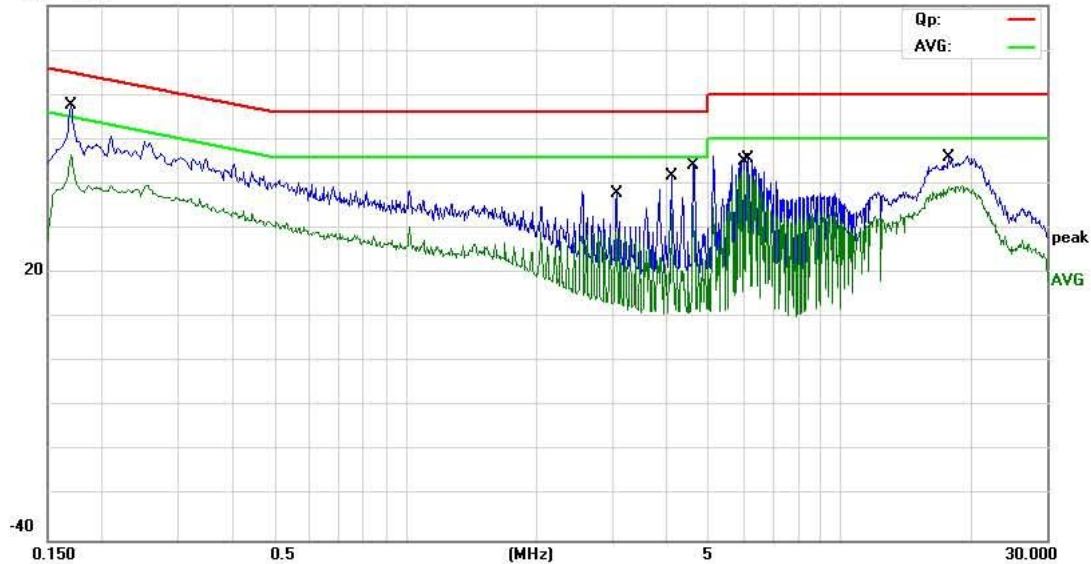
File: HX-P340

Data: #1

Date: 2015-2-11

Time: 16:10:57

80.0 dBuV



Site: MOST #1

Phase: **N**

Temperature: 23.9

Limit: FCC Part15 B Class B QP

Power: DC 5.0V by USB Port

Humidity: 53.1 %

EUT: Dynamite Wireless Speaker

M/N: HX-P340

Mode: GFSK Mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	47.43	10.20	57.63	64.96	-7.33	QP	
2		0.1700	36.38	10.20	46.58	54.96	-8.38	AVG	
3		3.0500	19.14	10.05	29.19	46.00	-16.81	AVG	
4		3.0780	27.84	10.08	37.92	56.00	-18.08	QP	
5		4.0980	30.66	11.10	41.76	56.00	-14.24	QP	
6		4.0980	22.20	11.10	33.30	46.00	-12.70	AVG	
7		4.6100	32.58	11.61	44.19	56.00	-11.81	QP	
8		4.6100	23.53	11.61	35.14	46.00	-10.86	AVG	
9	*	6.0140	31.70	11.39	43.09	50.00	-6.91	AVG	
10		6.1820	34.38	11.29	45.67	60.00	-14.33	QP	
11		17.8860	36.97	9.00	45.97	60.00	-14.03	QP	
12		17.8860	30.45	9.00	39.45	50.00	-10.55	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: John



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Conducted Emission Measurement

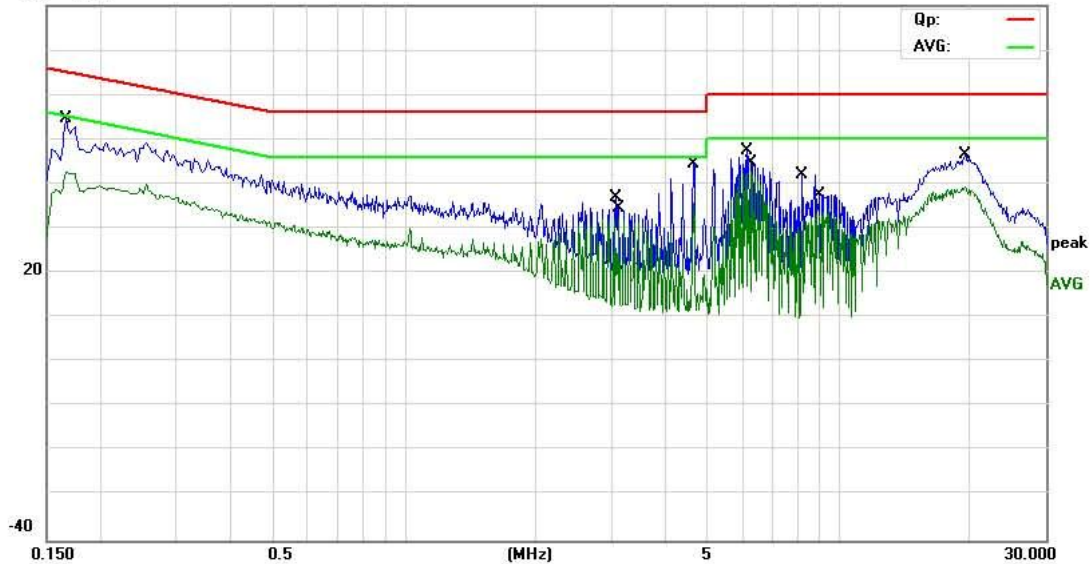
File: HX-P340

Data: #2

Date: 2015-2-11

Time: 16:17:34

80.0 dBuV



Site: MOST #1

Phase: **L1**

Temperature: 23.9

Limit: FCC Part15 B Class B QP

Power: DC 5.0V by USB Port

Humidity: 53.1 %

EUT: Dynamite Wireless Speaker

M/N: HX-P340

Mode: GFSK Mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1660	44.65	9.96	54.61	65.16	-10.55	QP	
2		0.1660	32.59	9.96	42.55	55.16	-12.61	AVG	
3		3.0900	26.73	10.09	36.82	56.00	-19.18	QP	
4		3.1300	22.28	10.13	32.41	46.00	-13.59	AVG	
5		4.6300	32.92	11.63	44.55	56.00	-11.45	QP	
6		4.6300	24.07	11.63	35.70	46.00	-10.30	AVG	
7		6.1780	36.06	11.29	47.35	60.00	-12.65	QP	
8	*	6.2620	31.33	11.24	42.57	50.00	-7.43	AVG	
9		8.2060	32.10	10.08	42.18	60.00	-17.82	QP	
10		8.8820	23.71	9.67	33.38	50.00	-16.62	AVG	
11		19.5380	37.59	9.00	46.59	60.00	-13.41	QP	
12		19.5380	30.30	9.00	39.30	50.00	-10.70	AVG	

*: Maximum data x: Over limit !: over margin

Engineer Signature: John

5.4 Radiated Emission

5.4.1 Requirement

According to FCC section 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3-meter)	Test Distance (m)	Field Strength ($\text{dB}\mu\text{V/m}$ at 3-meter)
0.009 - 0.490	$2400/F(\text{kHz})$	300	
0.490 - 1.705	$24000/F(\text{kHz})$	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

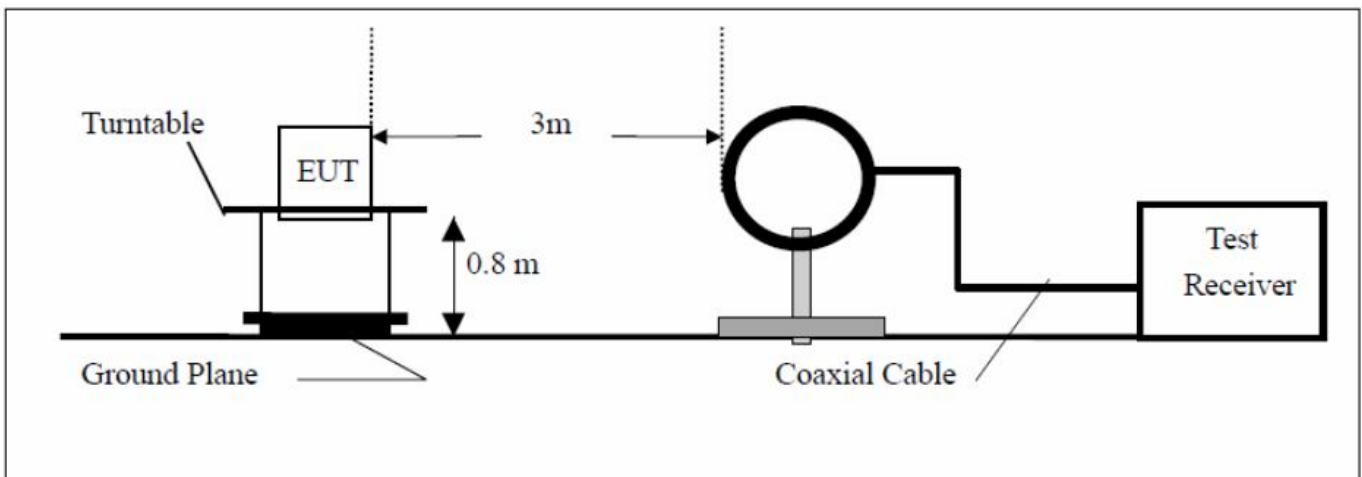
2. For above 1000MHz, limit field strength of harmonics: $54\text{dB}\mu\text{V/m}@3\text{m}$ (AV) and $74\text{dB}\mu\text{V/m}@3\text{m}$ (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-Gen Cl.8.10, also should comply with the radiated emission limits specified in RSS-Gen Cl.8.9 (above table)

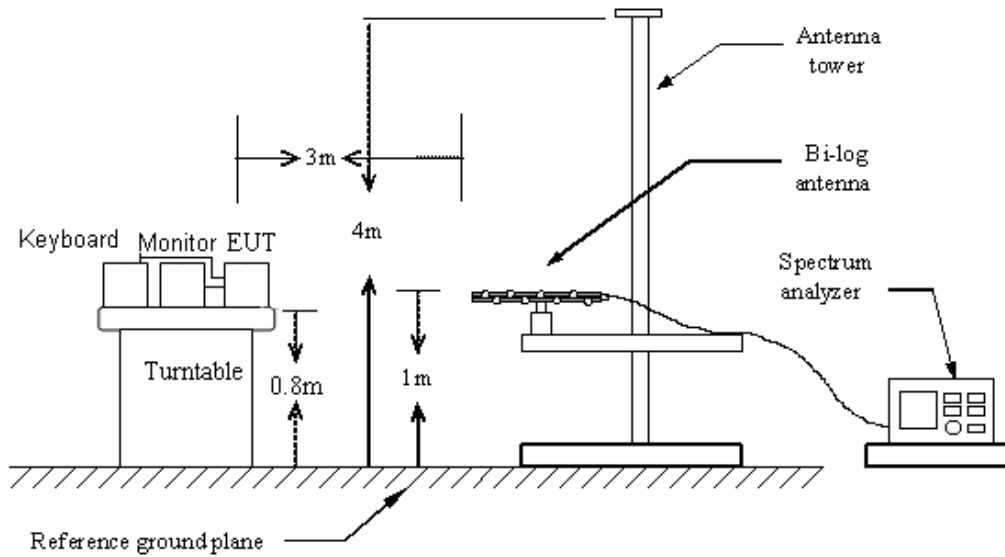
5.4.2 Test Configuration

Test Setup:

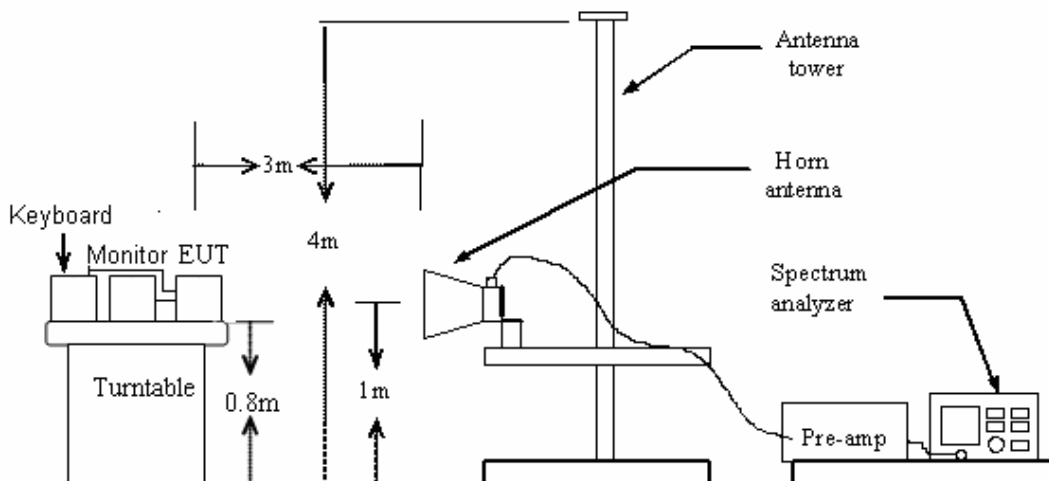
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz

**5.4.3 Test Procedure:**

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

5. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

5.4.4 Test Result

Pass

Remark:

1. During the test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case in above 1GHz and the GFSK Low channel modulation which it is worse case in below 1GHz.

2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Please refer the following pages.

Below 1GHz:



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #1

Date: 2015-2-12

Time: 16:32:27

70.0 dBuV/m



Site: Chamber #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Part15 B 3M Radiation

Power: DC 5.0V by USB Port

Humidity: 54 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK Mode Ch0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	I	30.5304	12.00	22.81	34.81	40.00	-5.19	peak			
2		70.3365	20.97	11.69	32.66	40.00	-7.34	peak			
3	*	116.9494	22.29	17.07	39.36	43.50	-4.14	peak			
4		168.4137	18.55	17.22	35.77	43.50	-7.73	peak			
5		297.2240	13.74	19.33	33.07	46.00	-12.93	peak			
6		513.6331	11.56	21.61	33.17	46.00	-12.83	peak			

*:Maximum data x:Over limit I:over margin

Engineer Signature:

Robert



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

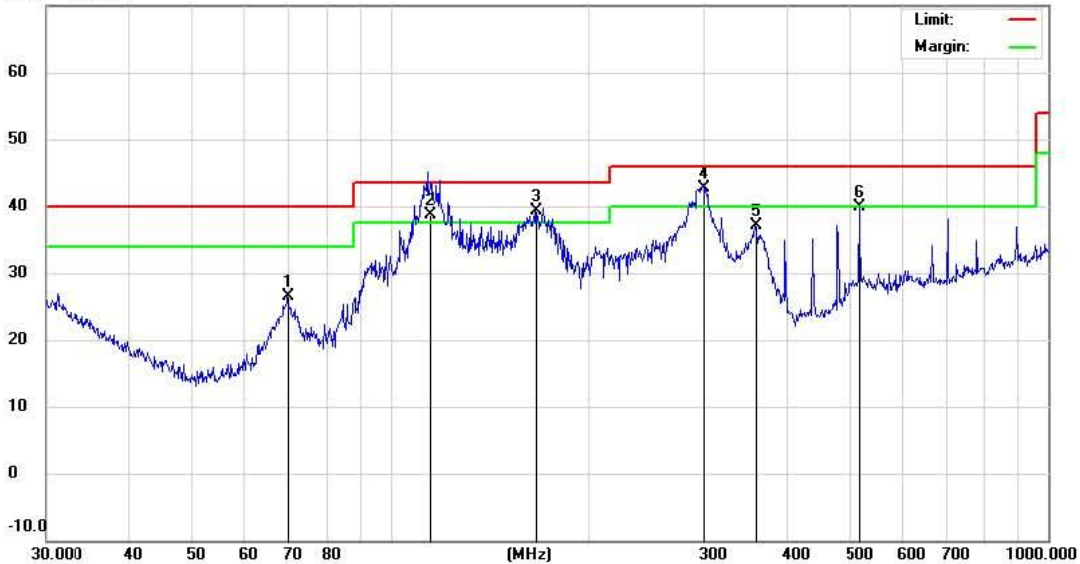
File: HX-P340

Data: #2

Date: 2015-2-12

Time: 16:49:18

70.0 dBuV/m



Site: Chamber #1

Polarization: **Horizontal**

Temperature: 23

Limit: FCC Part15 B 3M Radiation

Power: DC 5.0V by USB Port

Humidity: 54 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK Mode Ch0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		69.8450	14.88	11.69	26.57	40.00	-13.43	QP		
2	I	114.7964	21.90	16.77	38.67	43.50	-4.83	QP		
3	I	166.6514	22.05	17.23	39.28	43.50	-4.22	QP		
4	*	299.3309	23.30	19.31	42.61	46.00	-3.39	QP		
5		357.9287	18.98	18.20	37.18	46.00	-8.82	QP		
6		517.2480	18.17	21.72	39.89	46.00	-6.11	QP		

*:Maximum data x:Over limit I:over margin

Engineer Signature:

Robert

Above 1GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #1

Date: 2015-2-9

Time: 14:36:38

96.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	X	2402.000	99.08	-8.43	90.65	74.00	16.65	peak			
2	*	2402.000	81.10	-8.43	72.67	54.00	18.67	AVG			
3		5980.000	46.40	-2.76	43.64	74.00	-30.36	peak			
4		5980.000	36.21	-2.76	33.45	54.00	-20.55	AVG			
5		17020.000	40.93	6.82	47.75	74.00	-26.25	peak			
6		17020.000	31.13	6.82	37.95	54.00	-16.05	AVG			

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #2

Date: 2015-2-9

Time: 14:47:35

96.9 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2402.000	99.58	-8.43	91.15	74.00	17.15	peak		
2	X	2402.000	78.43	-8.43	70.00	54.00	16.00	AVG		
3		4480.000	55.01	-7.60	47.41	74.00	-26.59	peak		
4		4480.000	40.30	-7.60	32.70	54.00	-21.30	AVG		
5		16960.00	41.62	6.80	48.42	74.00	-25.58	peak		
6		16960.00	34.40	6.80	41.20	54.00	-12.80	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #3

Date: 2015-2-9

Time: 14:58:40

96.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2441.000	99.51	-8.36	91.15	74.00	17.15	peak		
2	*	2441.000	80.16	-8.36	71.80	54.00	17.80	AVG		
3		4900.000	53.17	-5.00	48.17	74.00	-25.83	peak		
4		4900.000	41.32	-5.00	36.32	54.00	-17.68	AVG		
5		16540.00	42.20	5.40	47.60	74.00	-26.40	peak		
6		16540.00	31.86	5.40	37.26	54.00	-16.74	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #4

Date: 2015-2-9

Time: 15:12:18

96.9 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH39

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2441.000	99.84	-8.36	91.48	74.00	17.48	peak		
2	*	2441.000	83.25	-8.36	74.89	54.00	20.89	AVG		
3		5980.000	49.62	-2.76	46.86	74.00	-27.14	peak		
4		5980.000	41.02	-2.76	38.26	54.00	-15.74	AVG		
5		16480.00	42.39	5.16	47.55	74.00	-26.45	peak		
6		16480.00	33.13	5.16	38.29	54.00	-15.71	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #5

Date: 2015-2-9

Time: 15:26:41

96.9 dBuV/m



Site: site #1

Polarization: **Horizontal**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH78

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	99.79	-8.30	91.49	74.00	17.49	peak			
2	*	2480.000	82.14	-8.30	73.84	54.00	19.84	AVG			
3		4960.000	51.85	-4.27	47.58	74.00	-26.42	peak			
4		4960.000	40.96	-4.27	36.69	54.00	-17.31	AVG			
5		16960.00	42.12	6.80	48.92	74.00	-25.08	peak			
6		16960.00	32.67	6.80	39.47	54.00	-14.53	AVG			

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #6

Date: 2015-2-9

Time: 15:37:11

96.9 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB Port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK-CH78

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	X	2480.000	101.29	-8.30	92.99	74.00	18.99	peak			
2	*	2480.000	88.41	-8.30	80.11	54.00	26.11	AVG			
3		4480.000	55.40	-7.60	47.80	74.00	-26.20	peak			
4		4480.000	43.20	-7.60	35.60	54.00	-18.40	AVG			
5		17020.000	41.48	6.82	48.30	74.00	-25.70	peak			
6		17020.000	31.64	6.82	38.46	54.00	-15.54	AVG			

*:Maximum data x:Over limit !:over margin

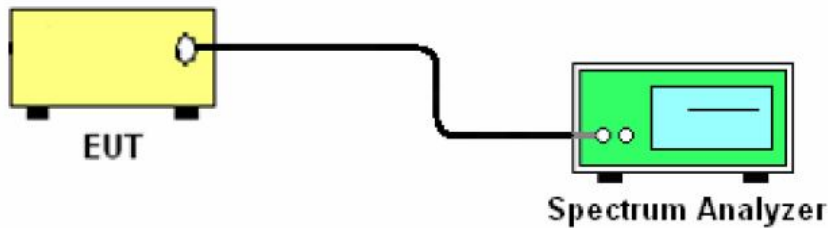
Engineer Signature:

5.5 Conducted Peak Output Power

5.5.1 Requirement

According to FCC Section 15.247(b)(1), 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

5.5.2 Block Diagram of Test Setup



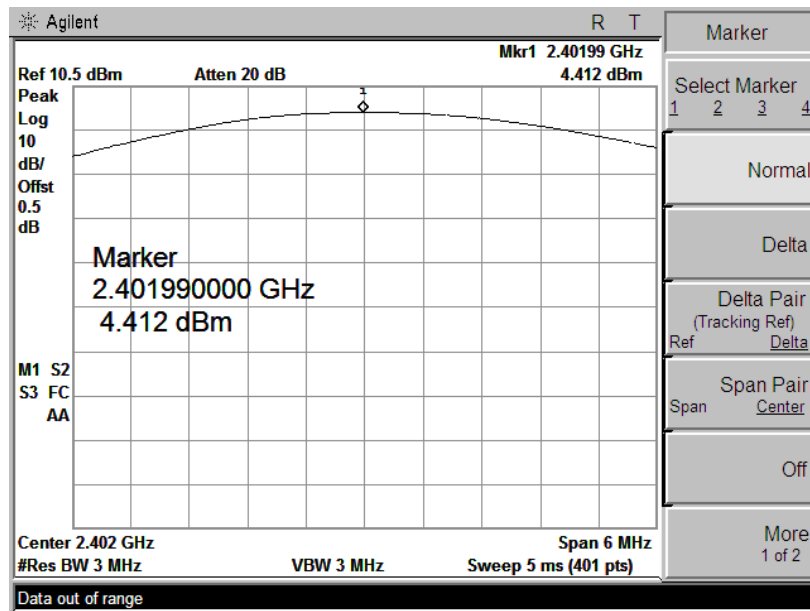
5.5.3 Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.

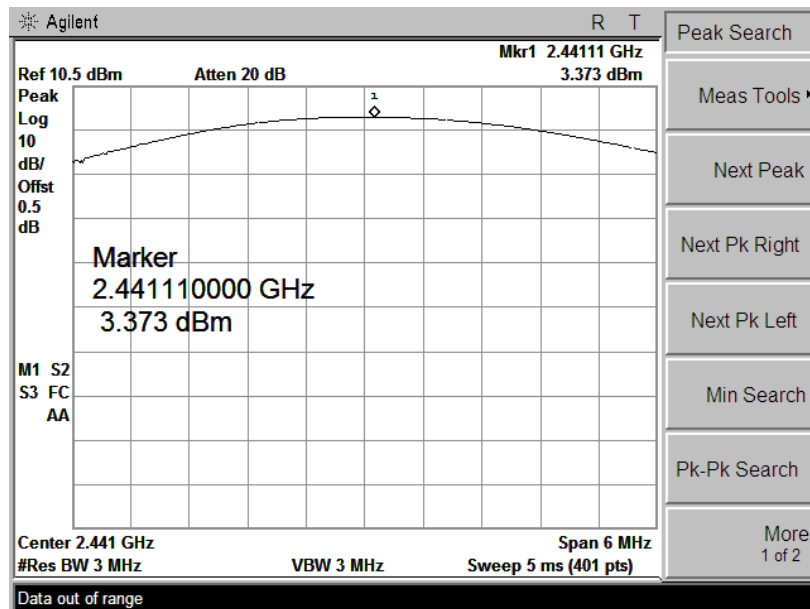
5.5.4 Test Result

Test Item:	Peak Output Power	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

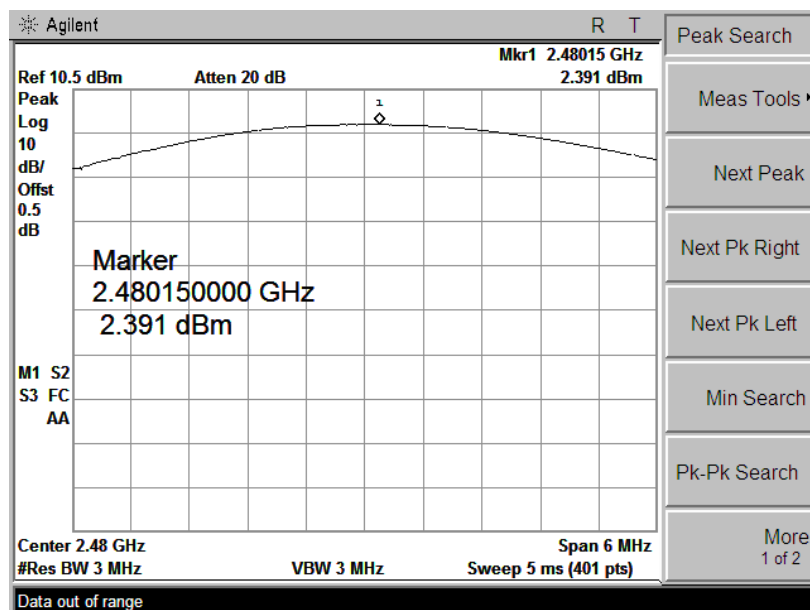
Mode	Channel	Frequency (MHz)	Peak Output Power(dBm)	Limit		Pass/Fail
				(mW)	(dBm)	
BDR (GFSK)	Low	2402	4.412	125	20.97	Pass
	Middle	2441	3.373	125	20.97	Pass
	High	2480	2.391	125	20.97	Pass
EDR (π/4-DQPSK)	Low	2402	4.322	125	20.97	Pass
	Middle	2441	3.365	125	20.97	Pass
	High	2480	2.350	125	20.97	Pass
EDR (8DPSK)	Low	2402	4.300	125	20.97	Pass
	Middle	2441	3.360	125	20.97	Pass
	High	2480	2.328	125	20.97	Pass



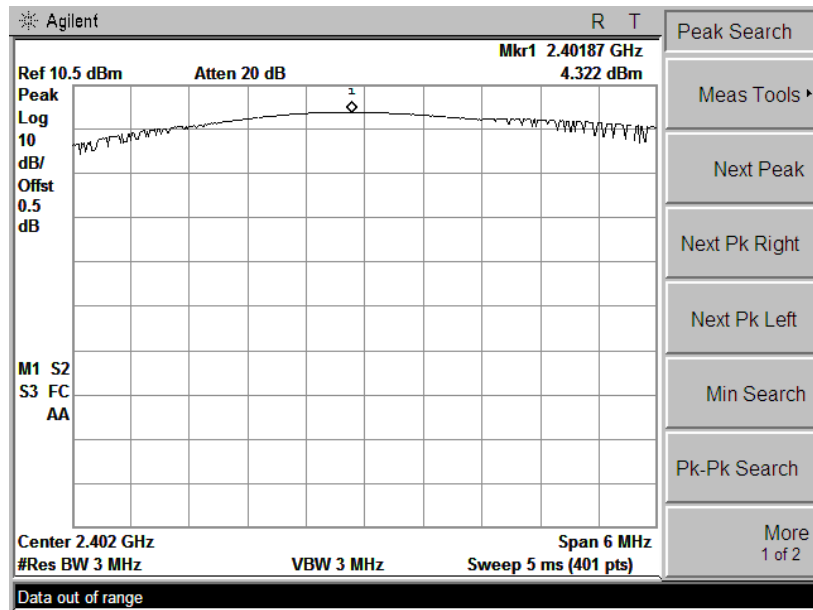
Ch 0



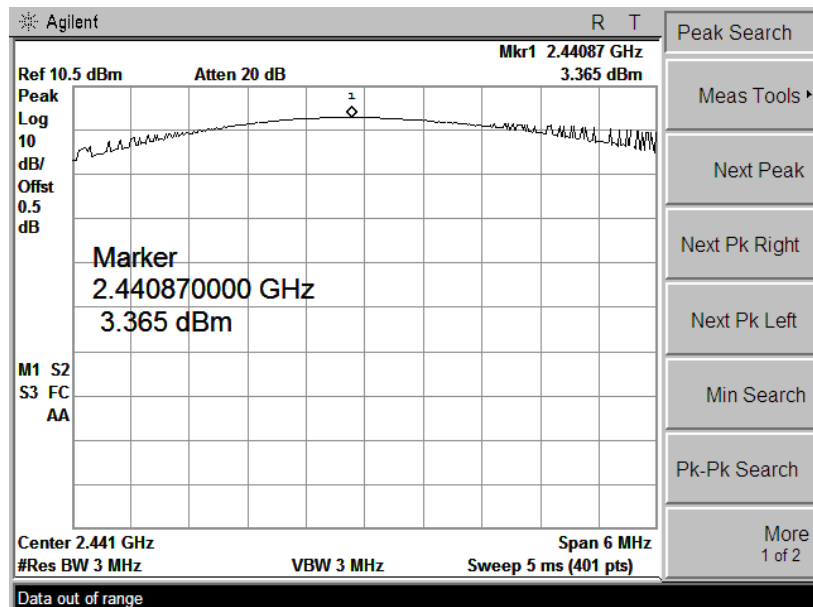
Ch 39



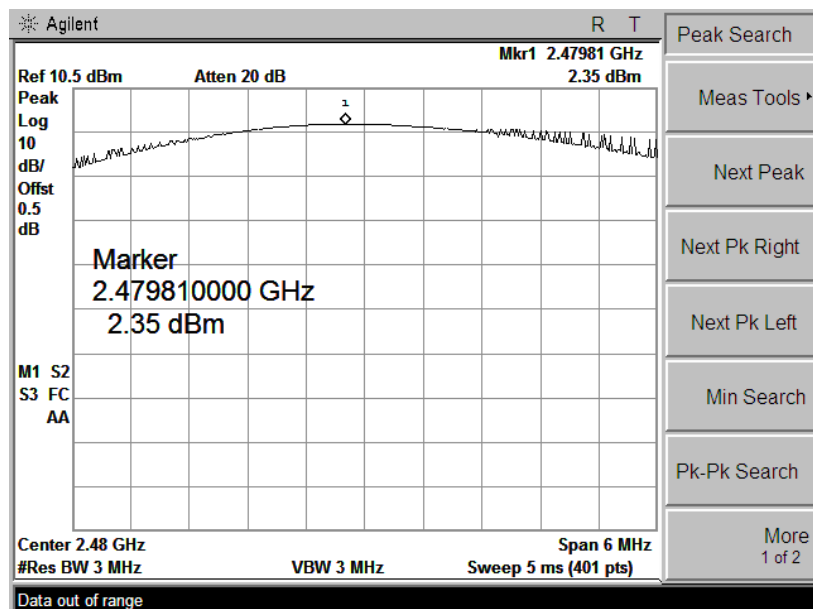
Ch 78

$\pi/4$ -DQPSK Mode

Ch 0

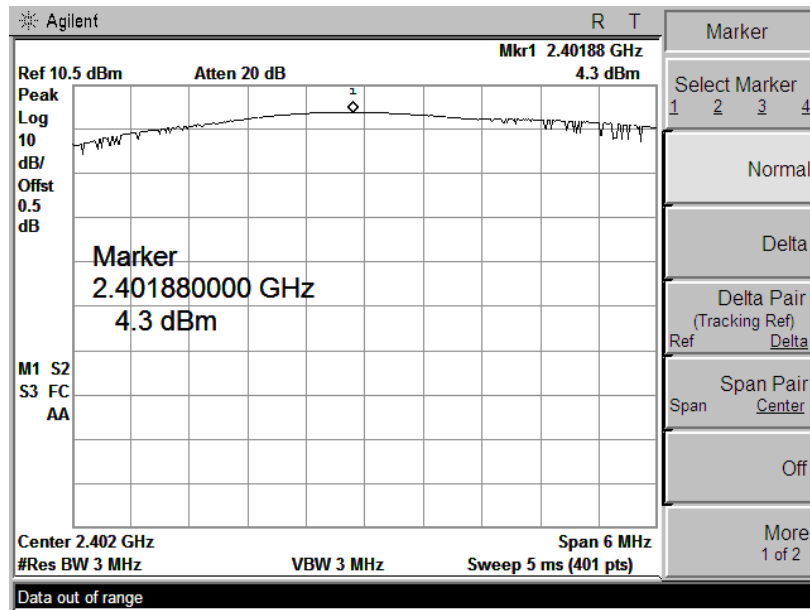


Ch 39

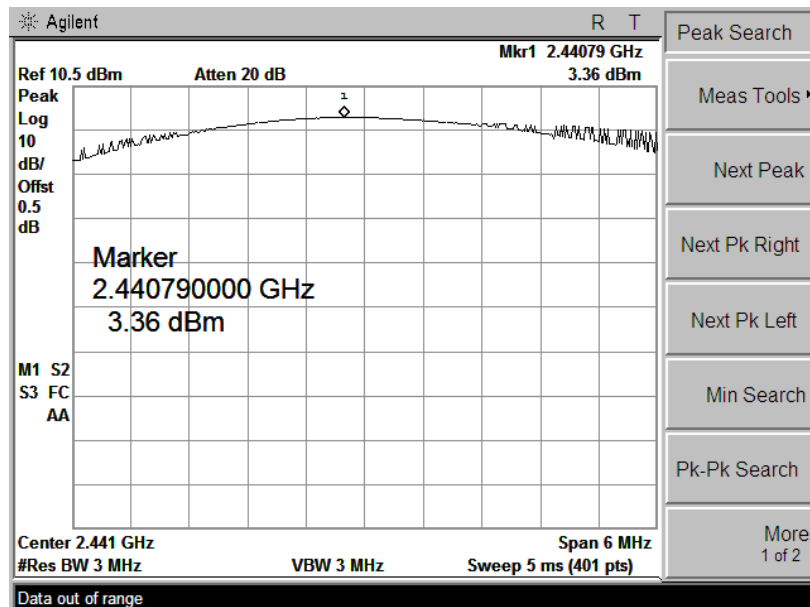


Ch 78

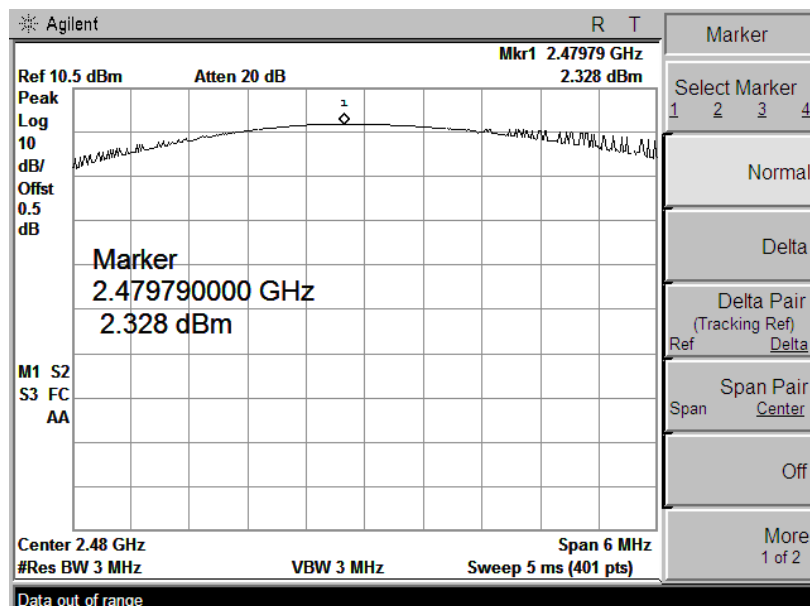
8DPSK Mode



Ch 0



Ch 39



5.6 20dB Emission Bandwidth

5.6.1 Test Requirement

The bandwidth of a frequency hopping channel is the -20 dB emission bandwidth, measured with the hopping stopped.

5.6.2 Test Procedure

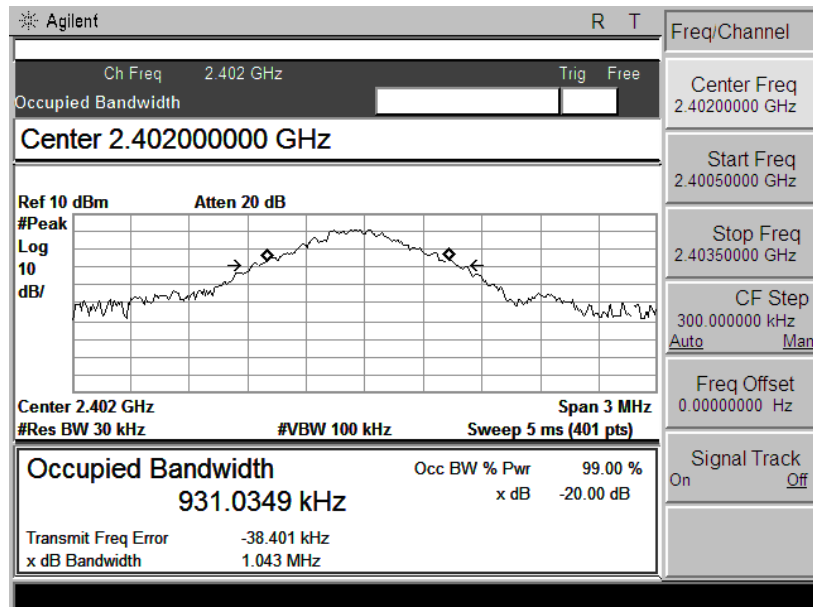
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

5.6.3 Test Result

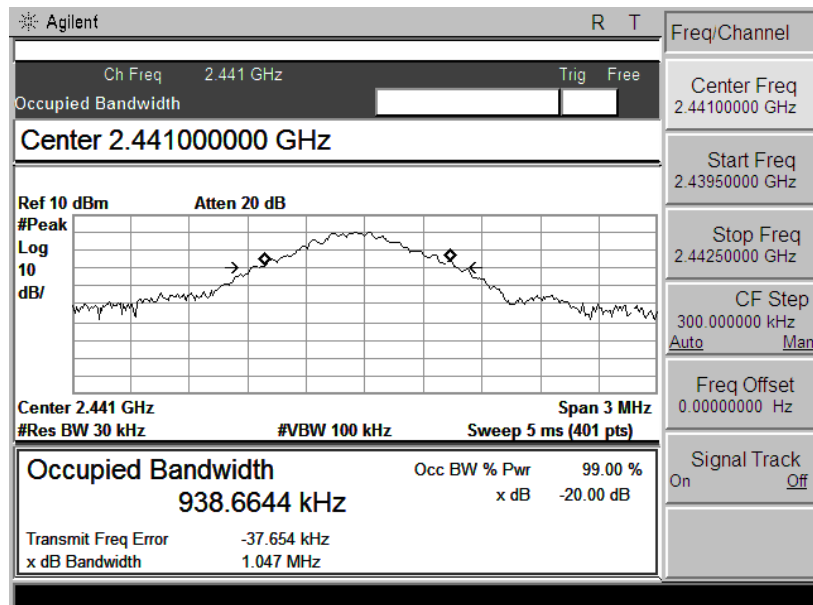
Test Item:	20dB Emission Bandwidth	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

Mode	Channel	Frequency (MHz)	20dB Bandwidth(MHz)
BDR (GFSK)	Low	2402	1.043
	Middle	2441	1.047
	High	2480	1.056
EDR ($\pi/4$ -DQPSK)	Low	2402	1.349
	Middle	2441	1.371
	High	2480	1.369
EDR (8DPSK)	Low	2402	1.357
	Middle	2441	1.347
	High	2480	1.373

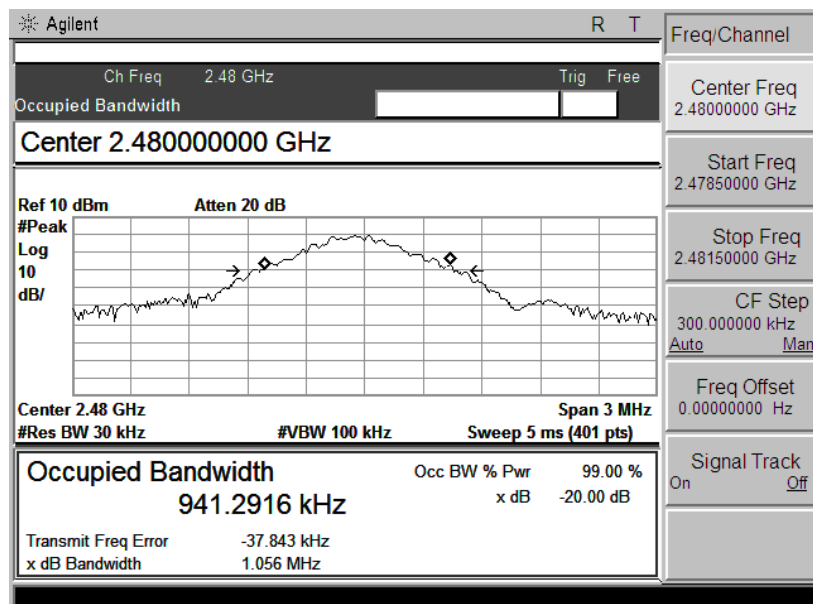
GFSK Mode



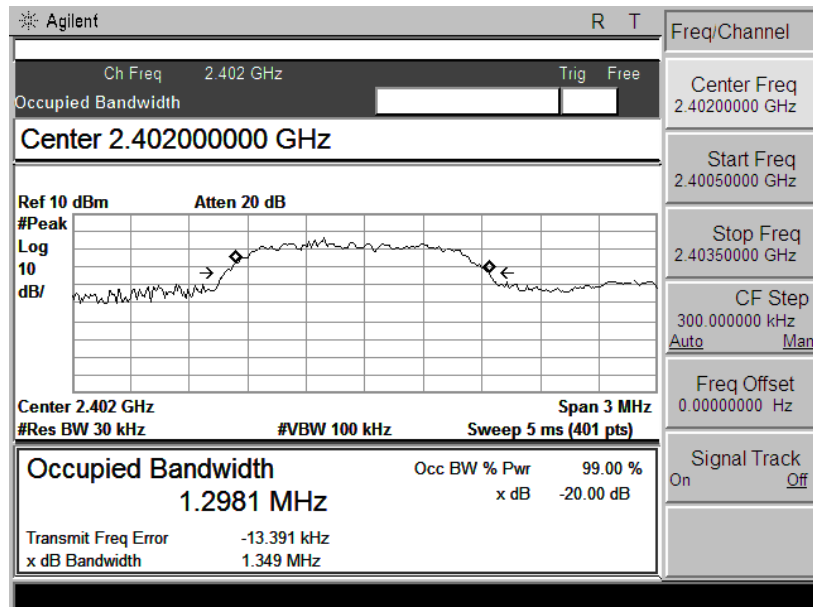
Ch 0



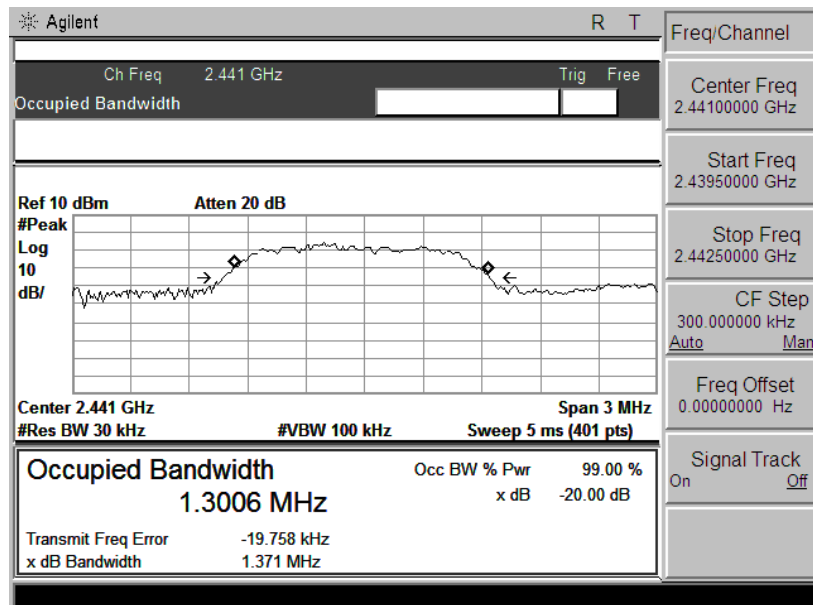
Ch 39



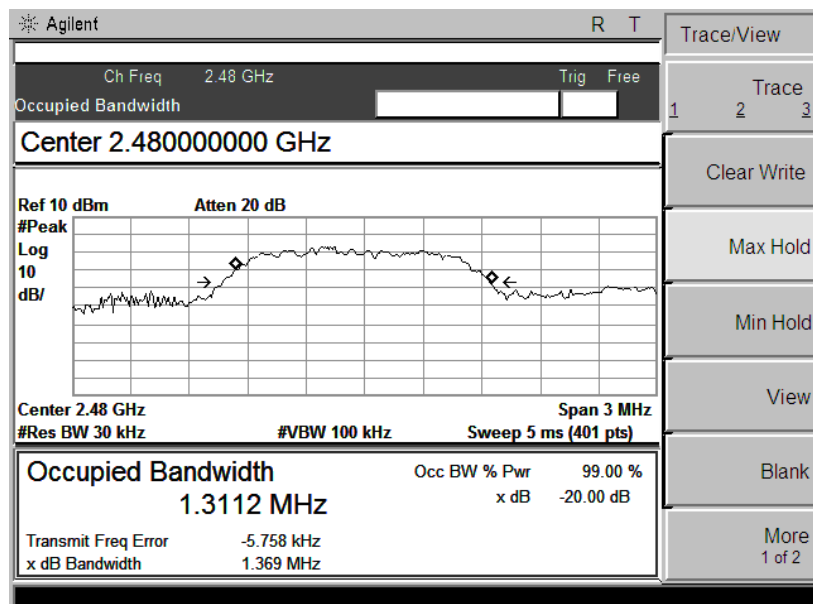
Ch 78

$\pi/4$ -DQPSK Mode

Ch 0

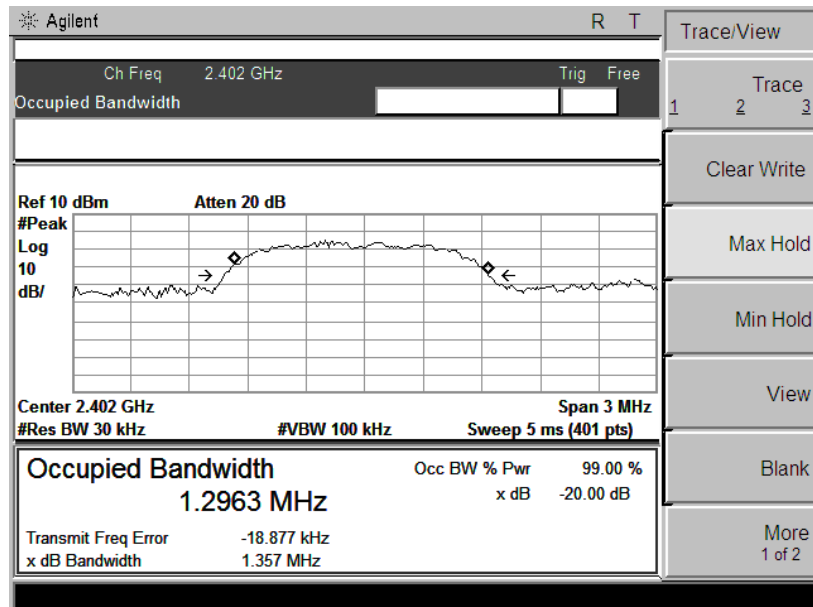


Ch 39

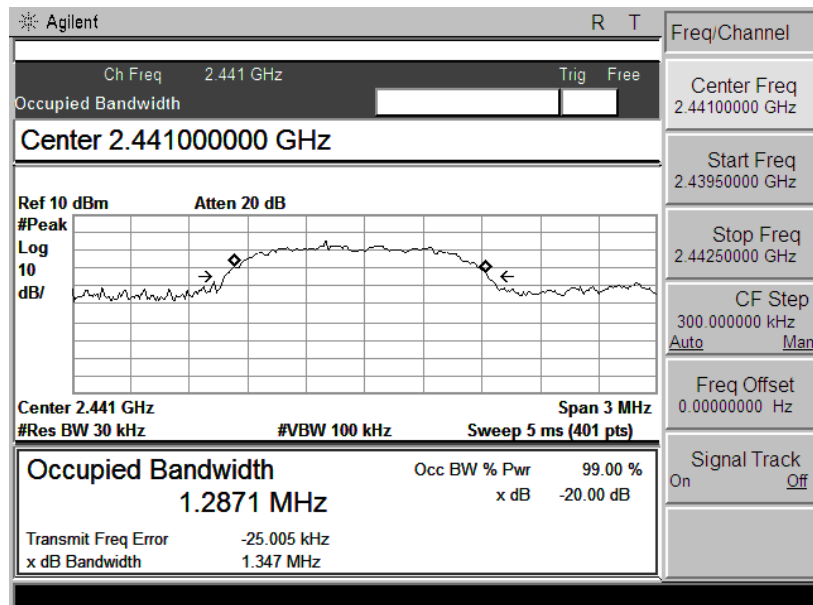


Ch 78

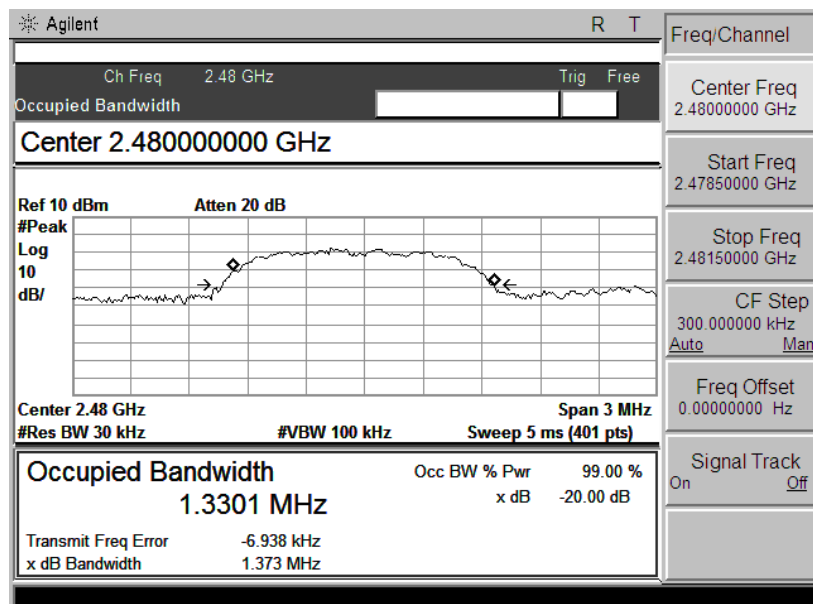
8DPSK Mode



Ch 0



Ch 39



5.7 Carrier Frequency Separation

5.7.1 Test Requirement

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

5.7.2 Test Procedure

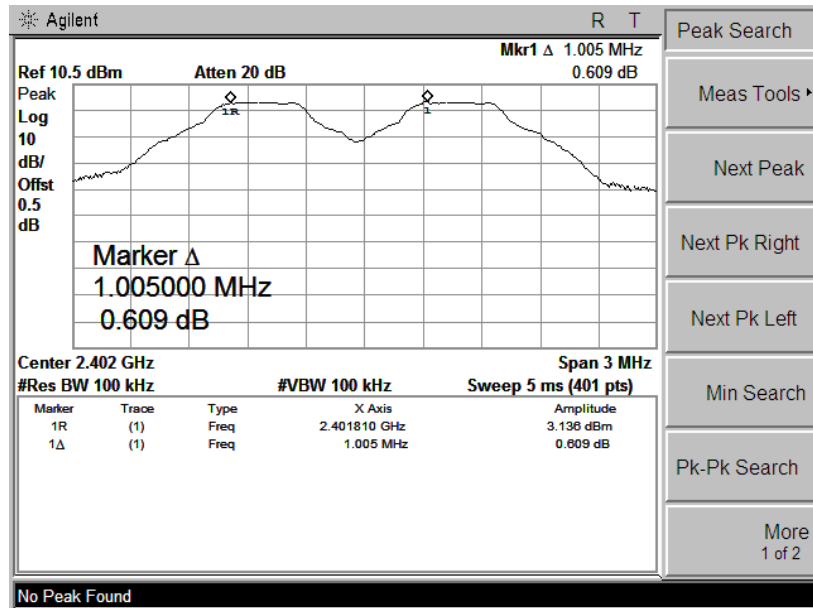
- 1.Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2.Set the adjacent channel of the EUT maxhold another trace
- 3.Measure the channel separation.

5.7.3 Test Result

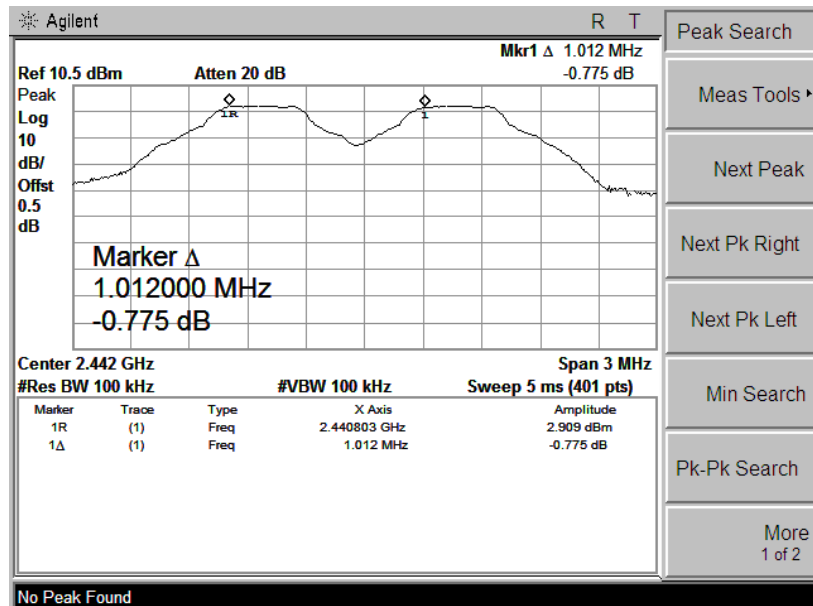
Test Item:	Carrier Frequency Separation	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.005	0.696	Pass
	Middle	2441	1.012	0.698	Pass
	High	2480	1.005	0.704	Pass
EDR ($\pi/4$ -DQPSK)	Low	2402	1.006	0.890	Pass
	Middle	2441	1.005	0.915	Pass
	High	2480	1.013	0.913	Pass
EDR (8DPSK)	Low	2402	1.004	0.905	Pass
	Middle	2441	1.004	0.890	Pass
	High	2480	1.012	0.916	Pass

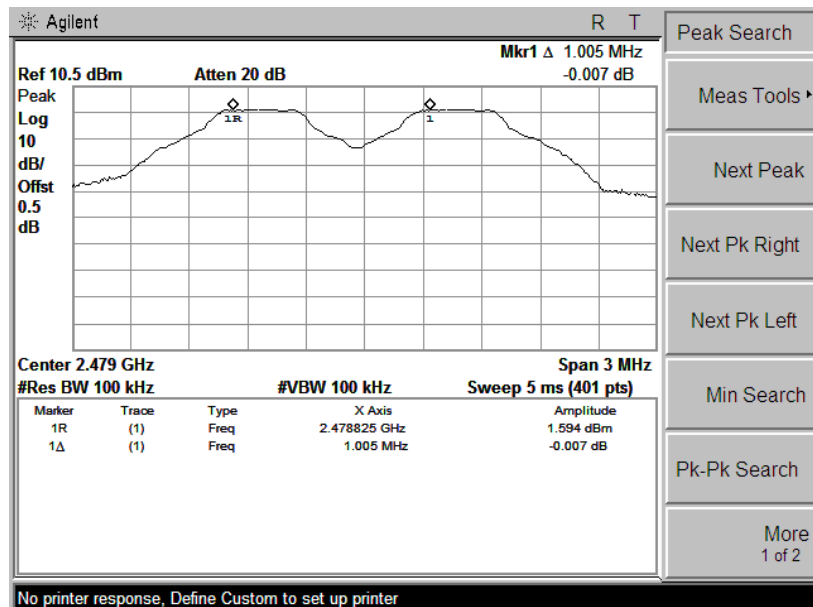
GFSK Mode



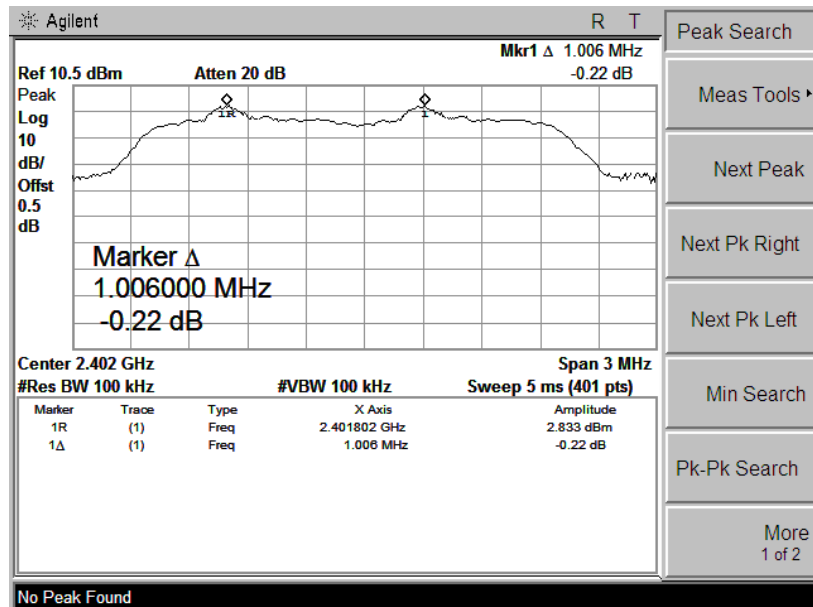
Ch 0



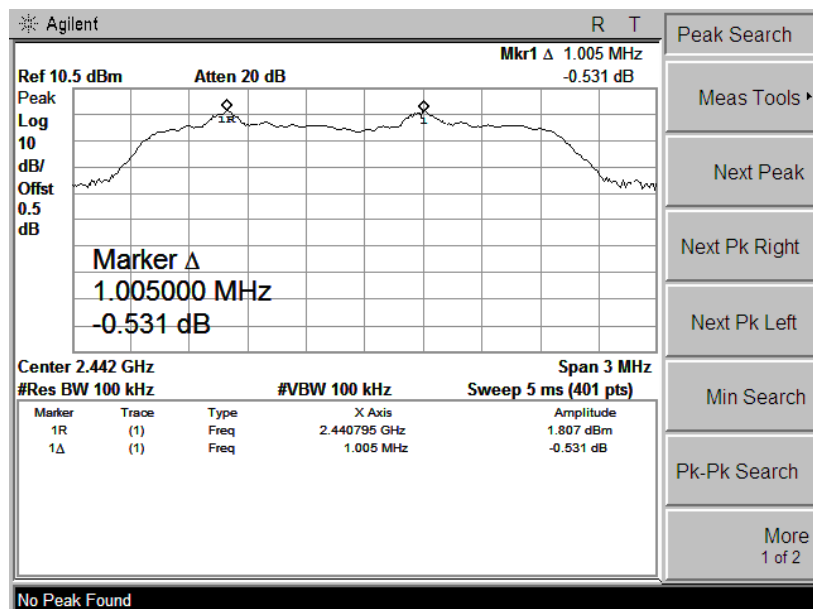
Ch 39



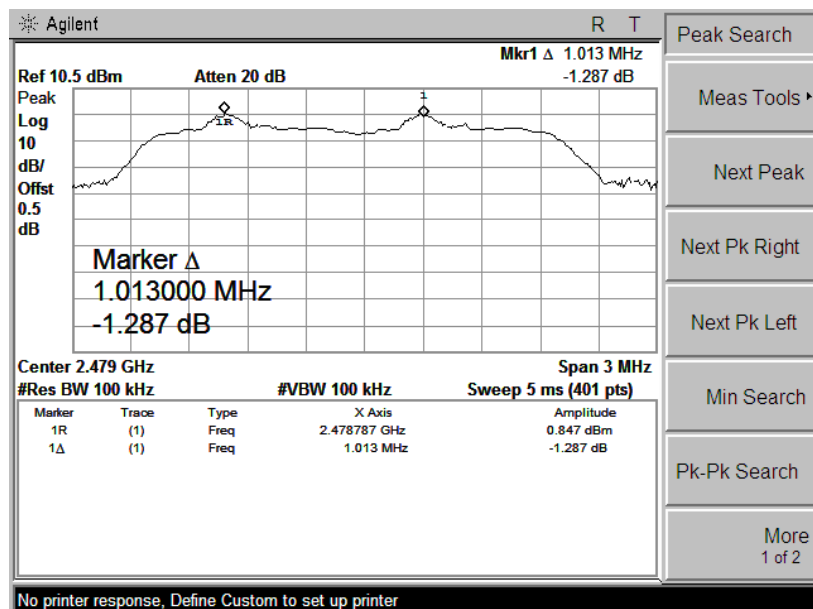
Ch 78

$\pi/4$ -DQPSK Mode

Ch 0

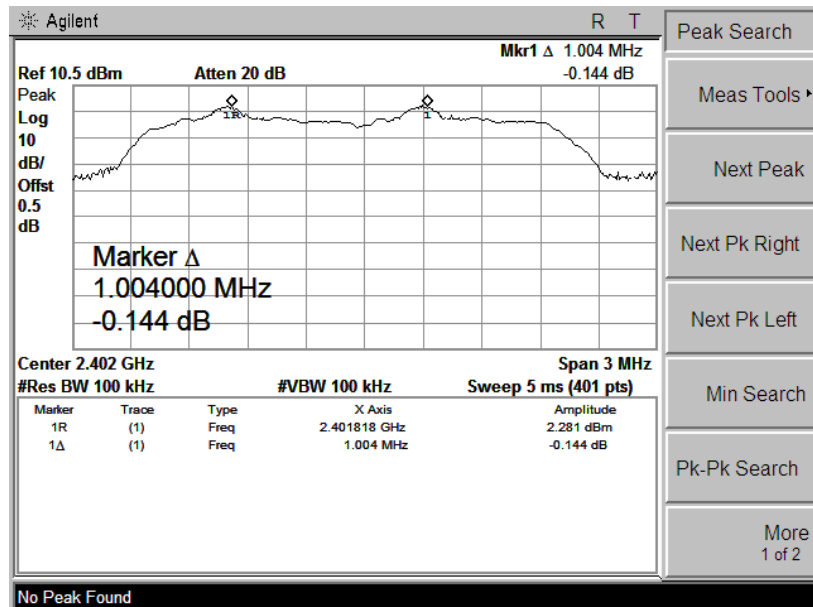


Ch 39

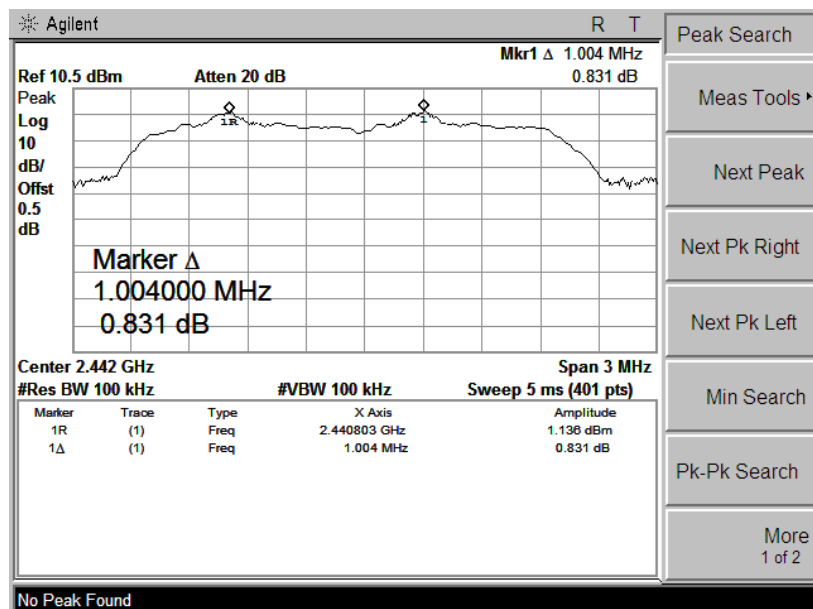


Ch 78

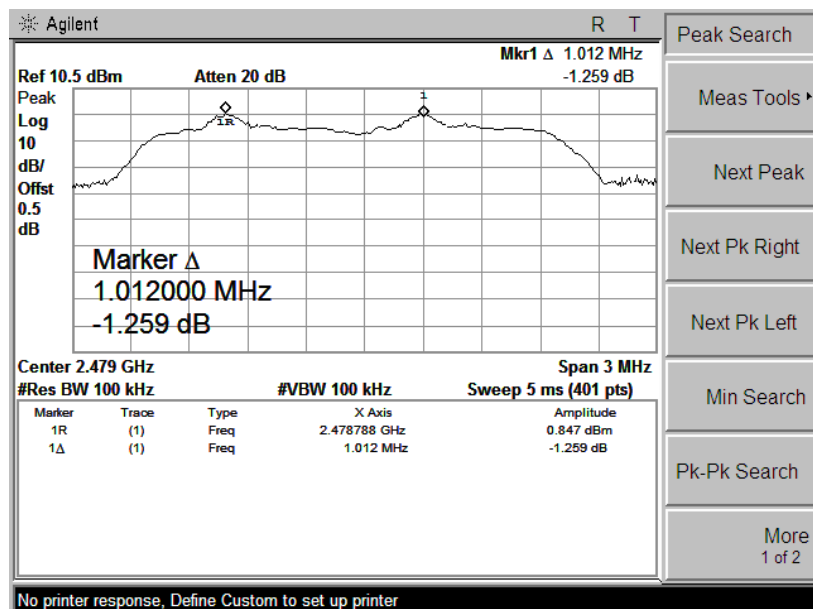
8DPSK Mode



Ch 0



Ch 39



Ch 78

5.8 Number of Hopping Channel

5.8.1 Test Requirement

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

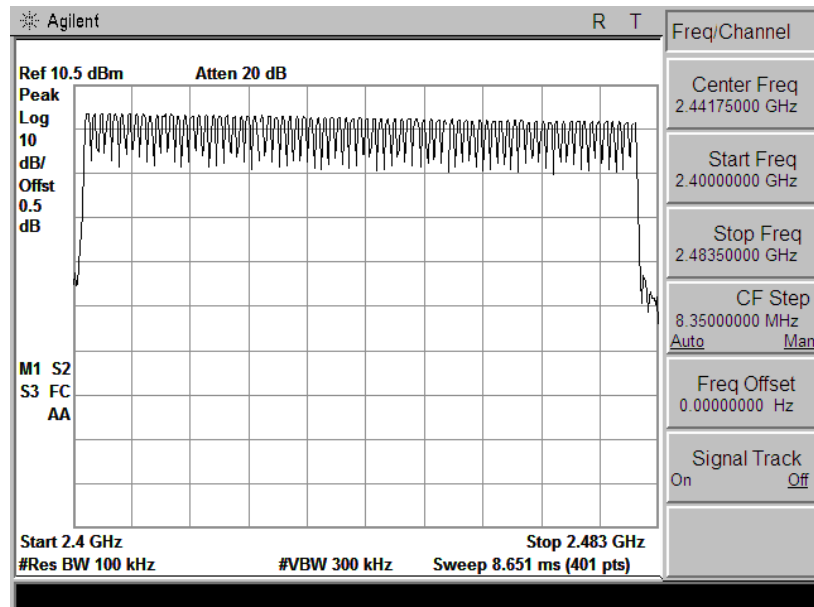
5.8.2 Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

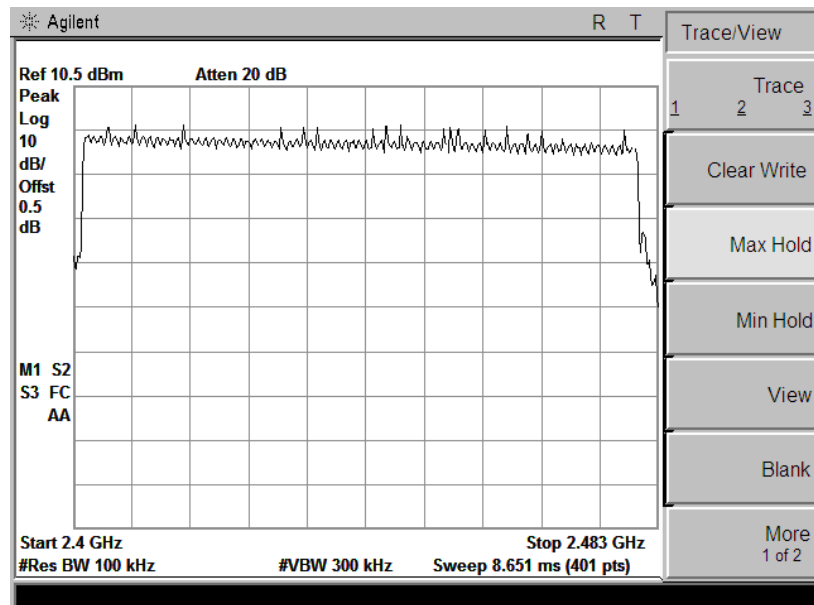
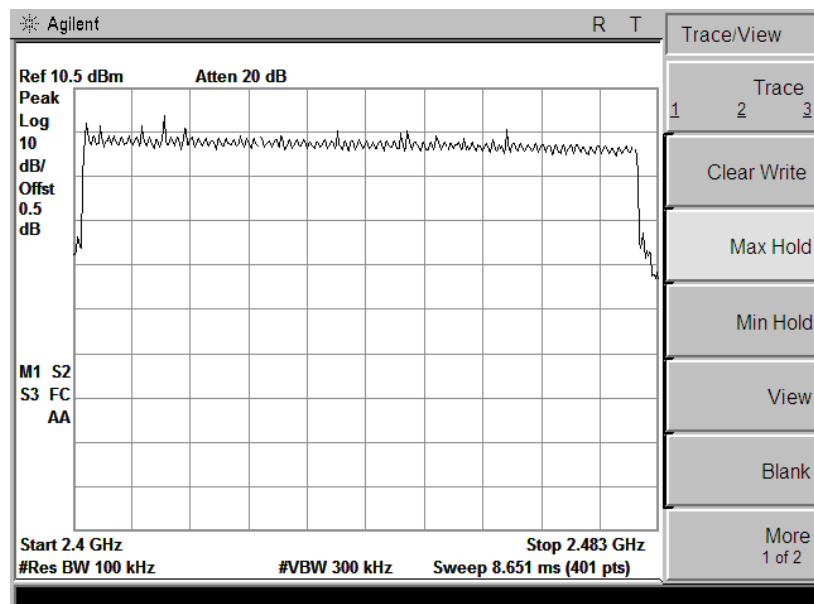
5.8.3 Test Result

Test Item:	Number of Hopping Channel	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

Mode	Frequency Range (MHz)	Number of Hopping Channel	Limit
GFSK	2400-2483.5	79	≥15
$\pi/4$ -DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



GFSK Mode

 $\pi/4$ -DQPSK

8DPSK Mode

5.9 Dwell Time

5.9.1 Test Requirement

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.9.2 Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as $0.4 \times \text{channel no. (s)}$, the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s Hop rate=1600/s

5.9.3 Test Result

Test Item:	Dwell Time	Temperature :	25°C
Test Engineer:	Henry	Relative Humidity :	65%

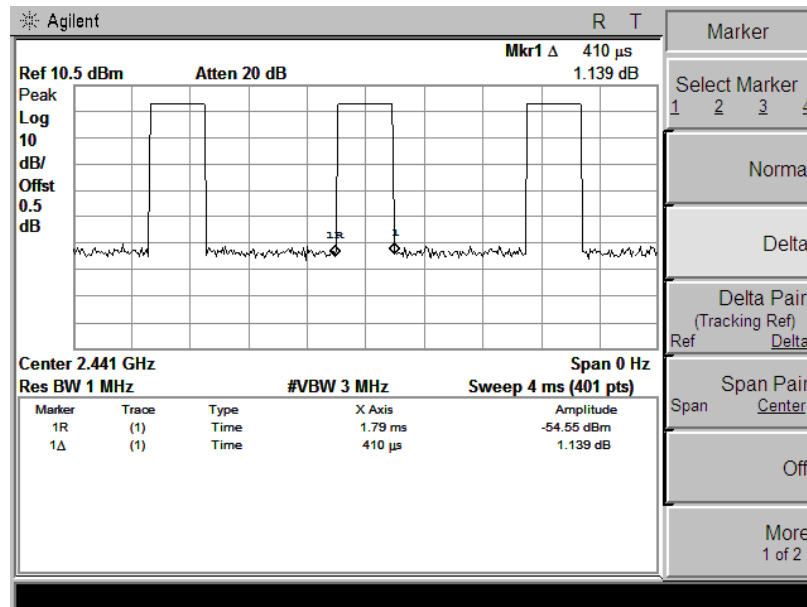
Mode	Packet	Pulse Time (ms)	Dwell Time(ms)	Limit(ms)	Result
GFSK	DH1	0.41	131.2	400	Pass
	DH3	1.68	268.8	400	Pass
	DH5	2.82	300.6	400	Pass
$\pi/4$ DQPSK	2DH1	0.40	128.0	400	Pass
	2DH3	1.71	273.6	400	Pass
	2DH5	3.01	320.9	400	Pass
8DPSK	3DH1	0.40	128.0	400	Pass
	3DH3	1.71	273.6	400	Pass
	3DH5	2.80	298.5	400	Pass

Note: DH1/2DH1/3DH1: Dwell Time=Pulse Time(ms) $\times[(1600/2/79)\times 31.6]$

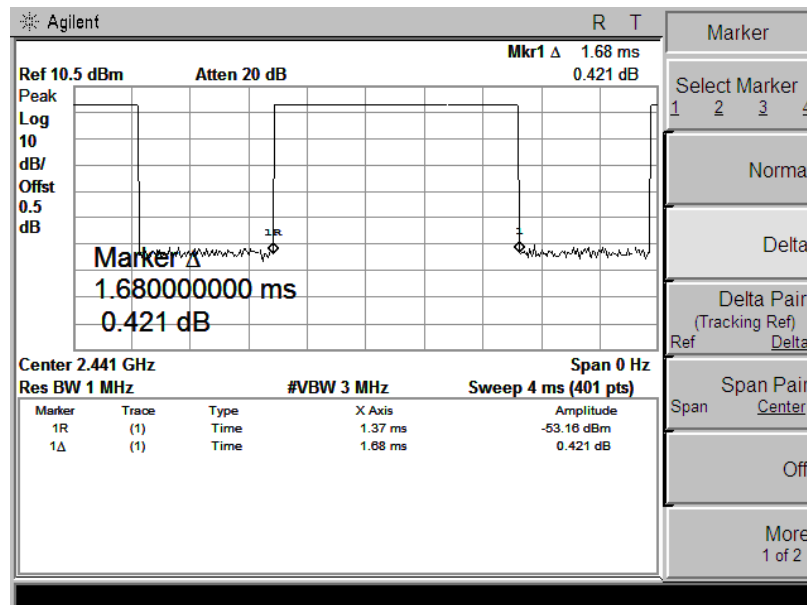
DH3/2DH3/3DH3: Dwell Time= Pulse Time(ms) $\times[(1600/4/79)\times 31.6]$

DH5/2DH5/3DH5: Dwell Time= Pulse Time(ms) $\times[(1600/6/79)\times 31.6]$

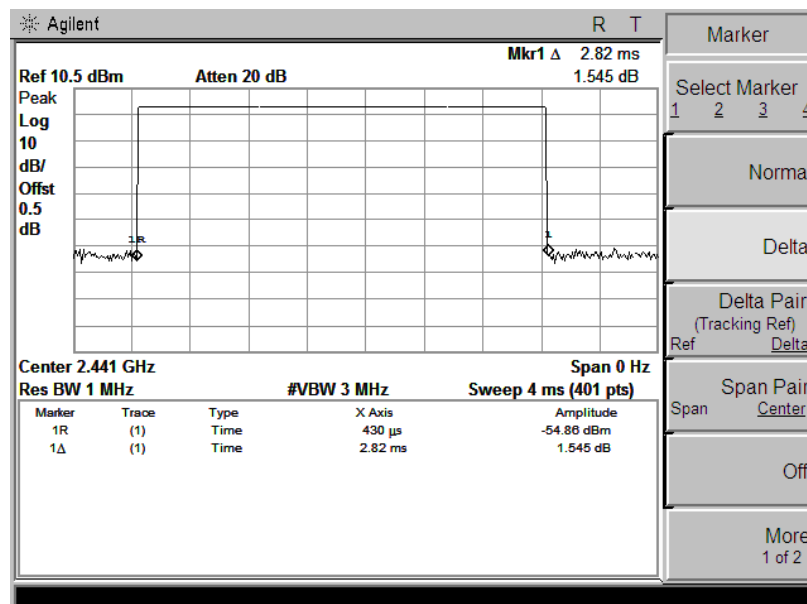
GFSK Mode



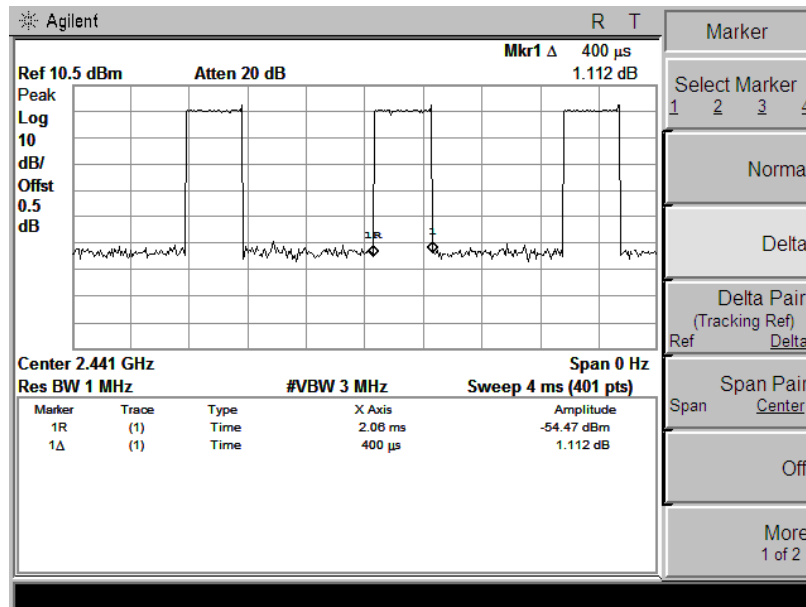
DH1



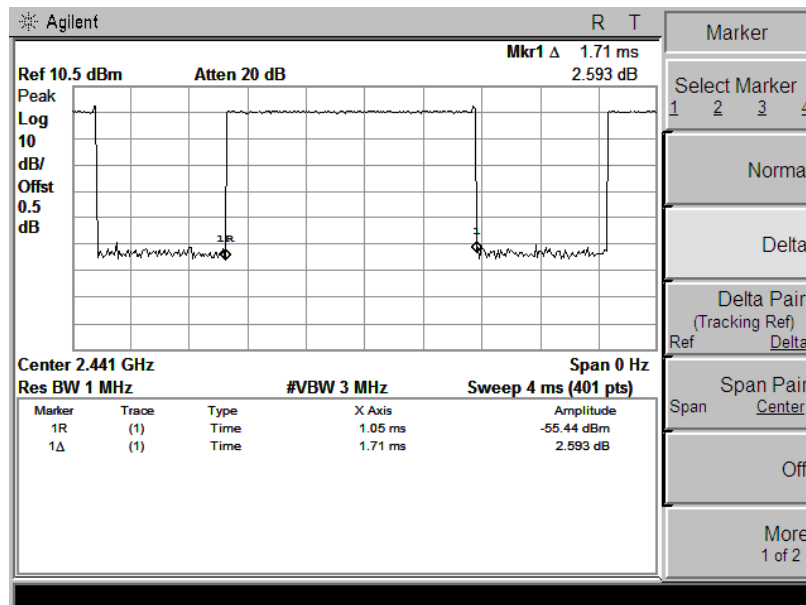
DH3



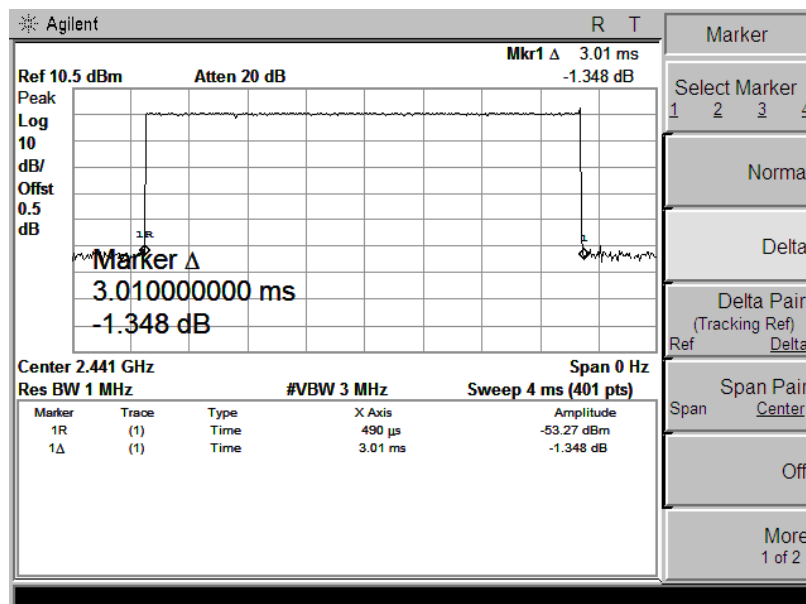
DH5

$\pi/4$ -DQPSK Mode

DH1

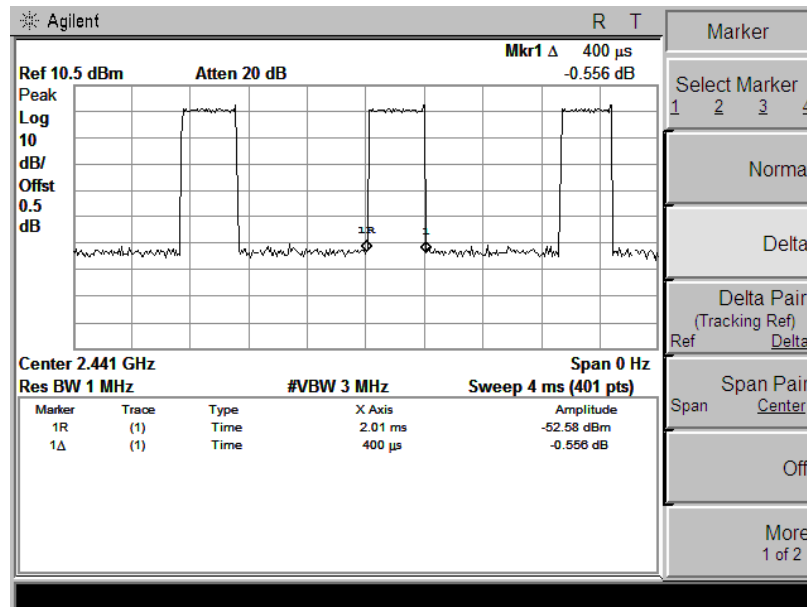


DH3

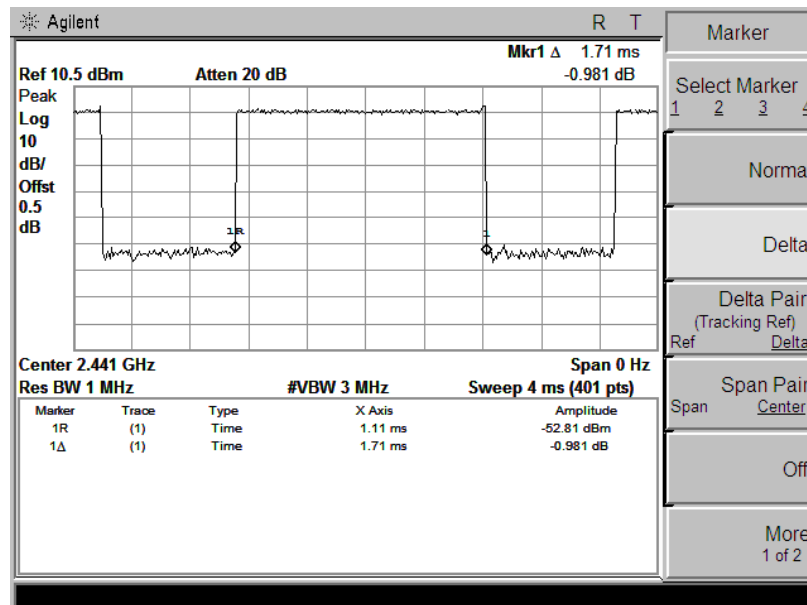


DH5

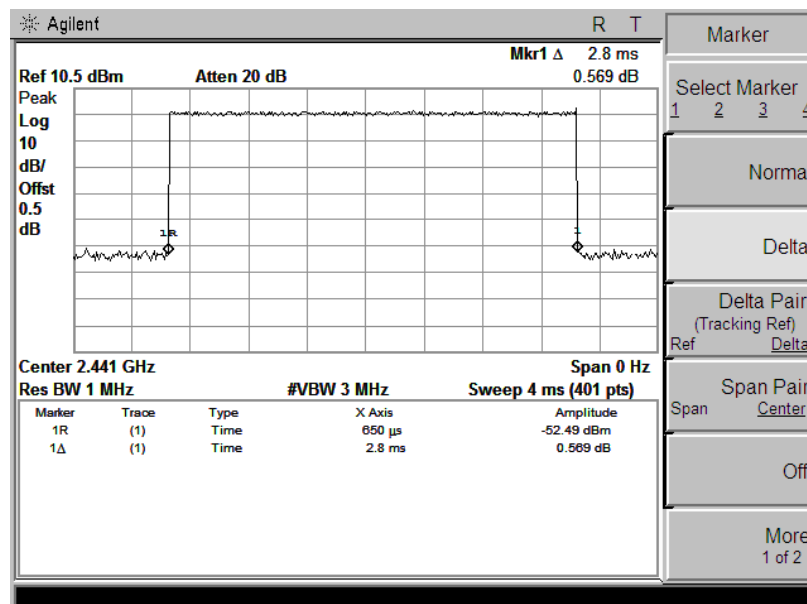
8DPSK Mode



DH1



DH3



DH5

5.9 Band Edge and Conducted Spurious Emissions

5.9.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

5.9.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

5.9.3 Test Result

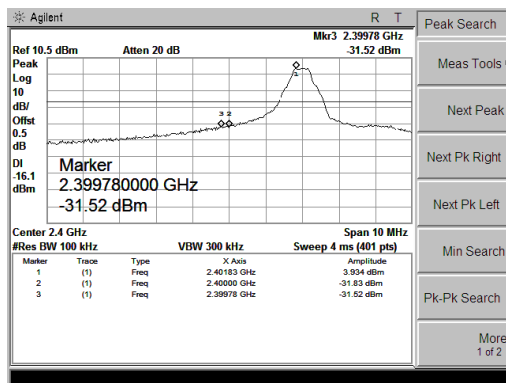
Pass

Remark:

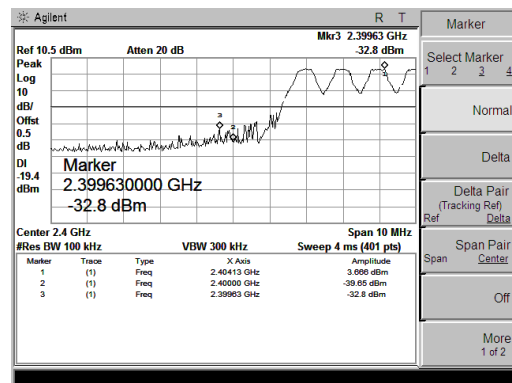
During the Conducted Spurious Emissions test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

Test Item:	Band Edge	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

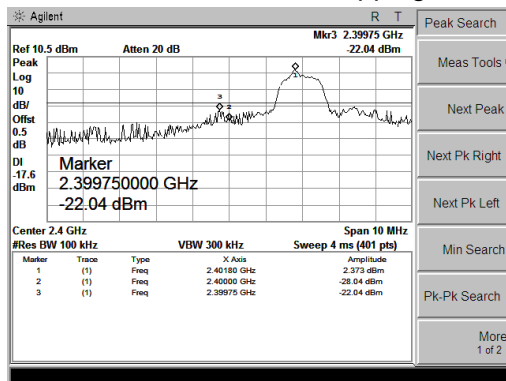
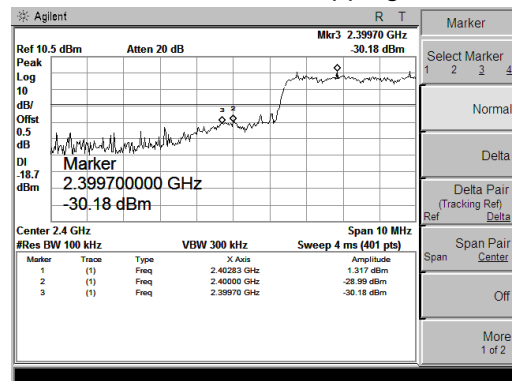
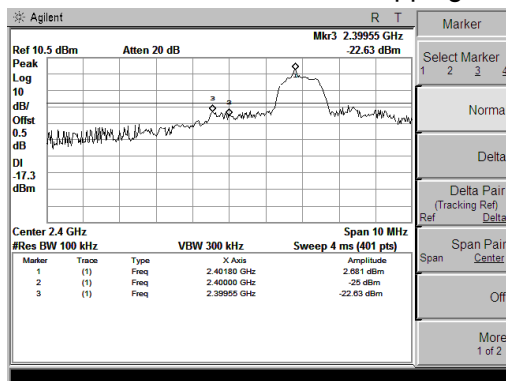
Band Edge, Left Side



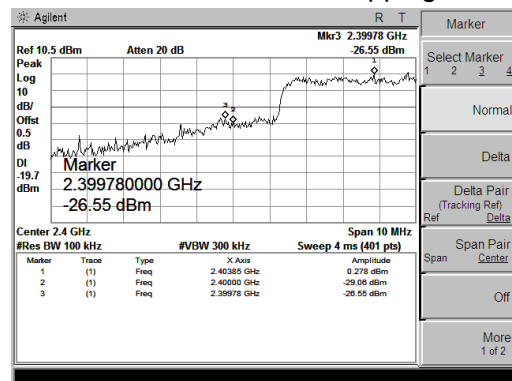
GFSK Mode, Non-Hopping



GFSK Mode, Hopping

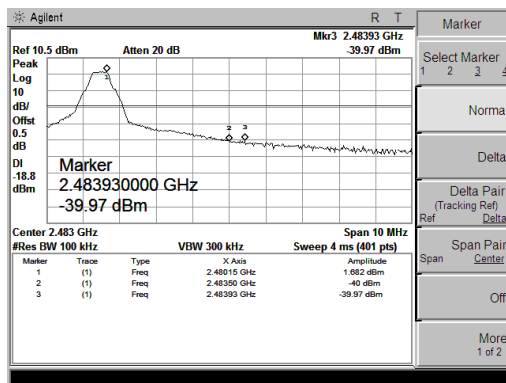
 $\pi/4$ -DQPSK Mode, Non-Hopping $\pi/4$ -DQPSK Mode, Hopping

8DPSK Mode, Non-Hopping

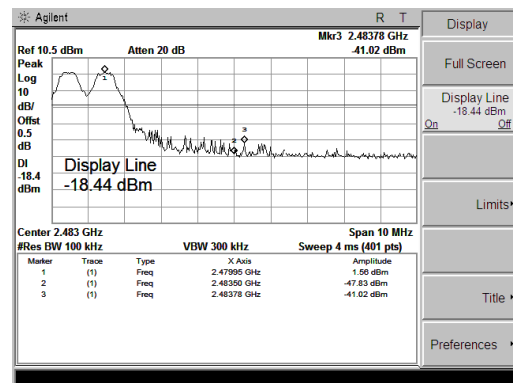


8DPSK Mode, Hopping

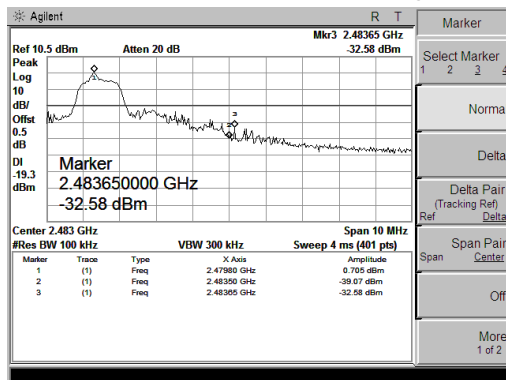
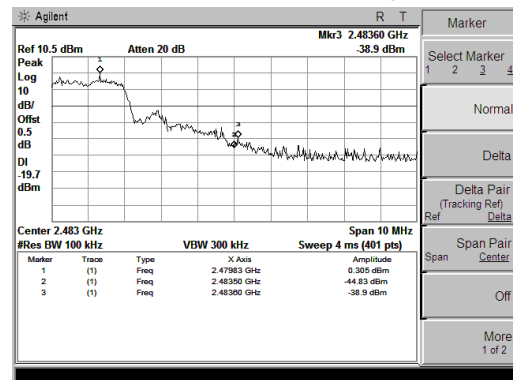
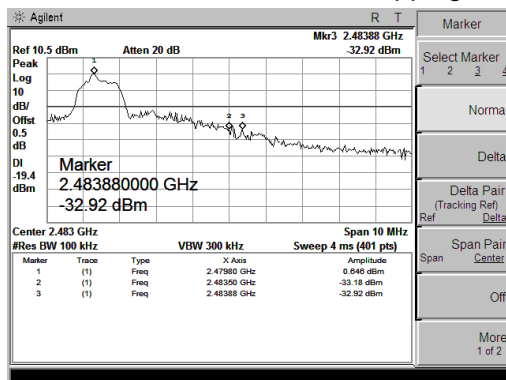
Band Edge, Right Side



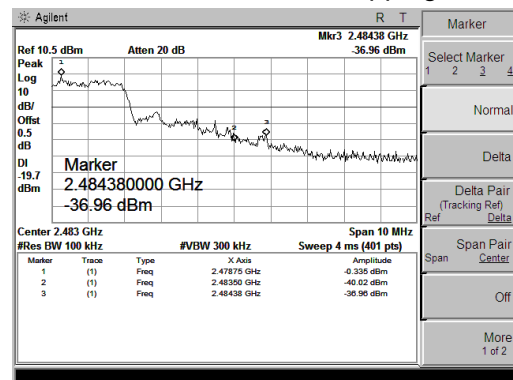
GFSK Mode, Non-Hopping



GFSK Mode, Hopping

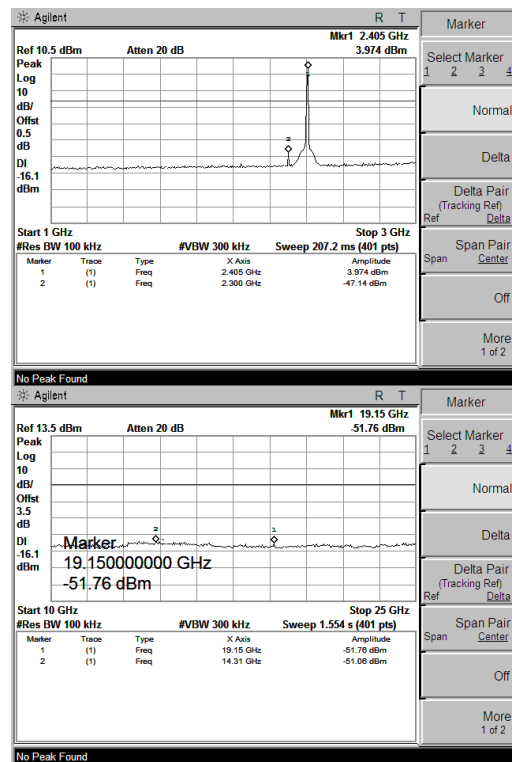
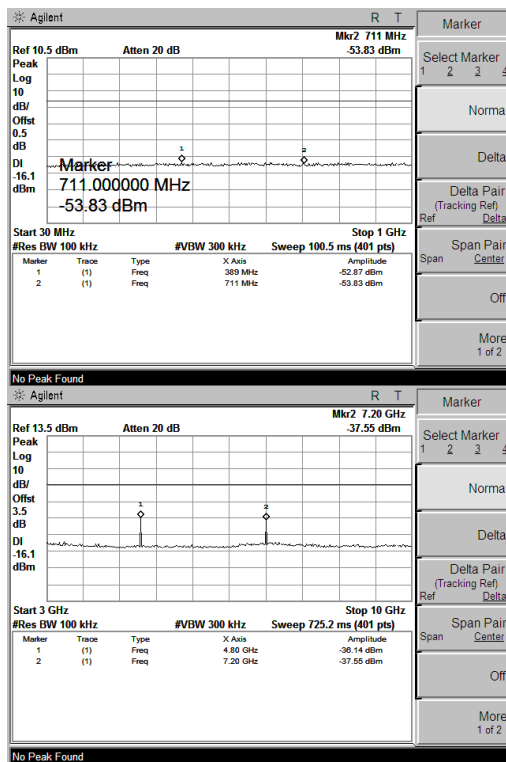
 $\pi/4$ -DQPSK Mode, Non-Hopping $\pi/4$ -DQPSK Mode, Hopping

8DPSK Mode, Non-Hopping

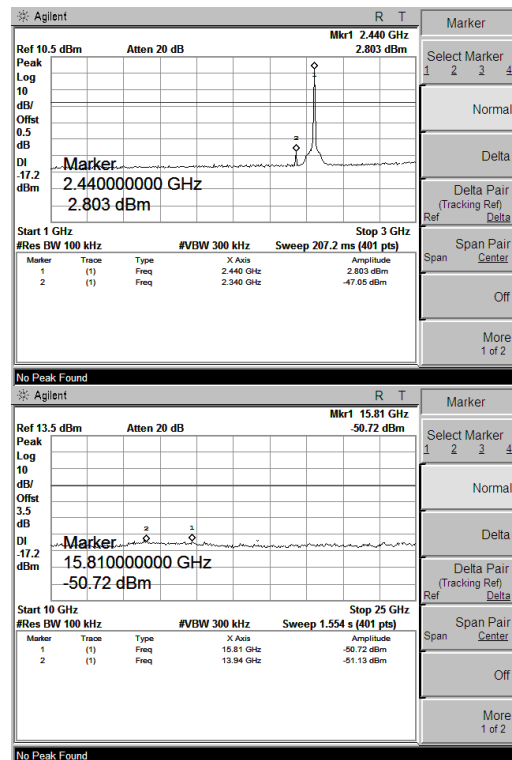
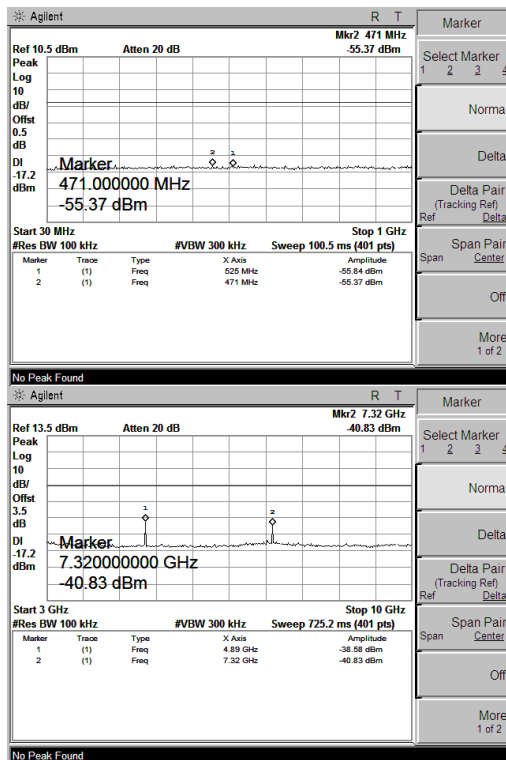


8DPSK Mode, Hopping

Conducted Spurious Emissions

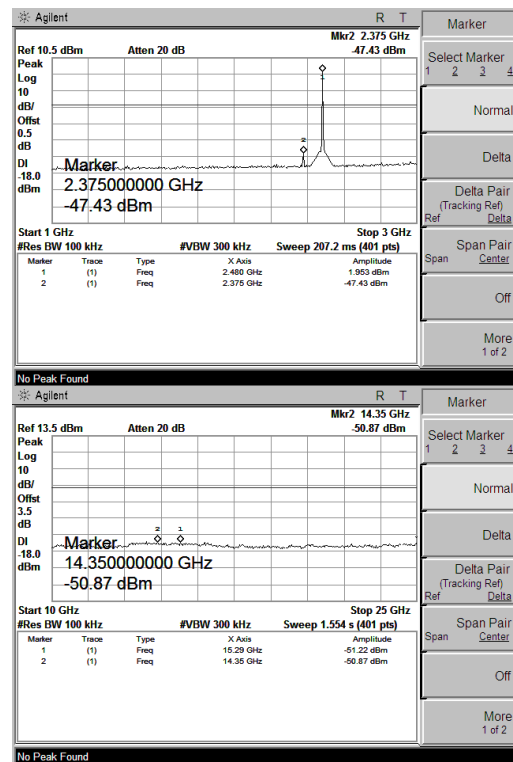
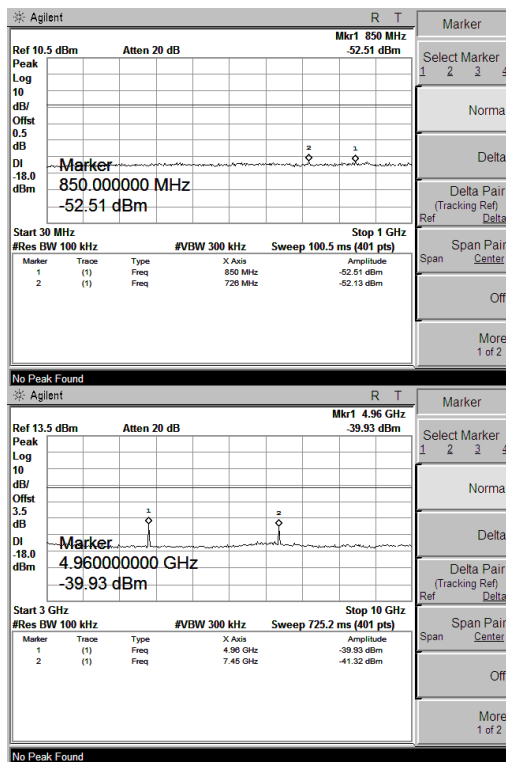


GFSK Mode, Ch0



GFSK Mode, Ch39

Conducted Spurious Emissions



GFSK Mode, Ch78

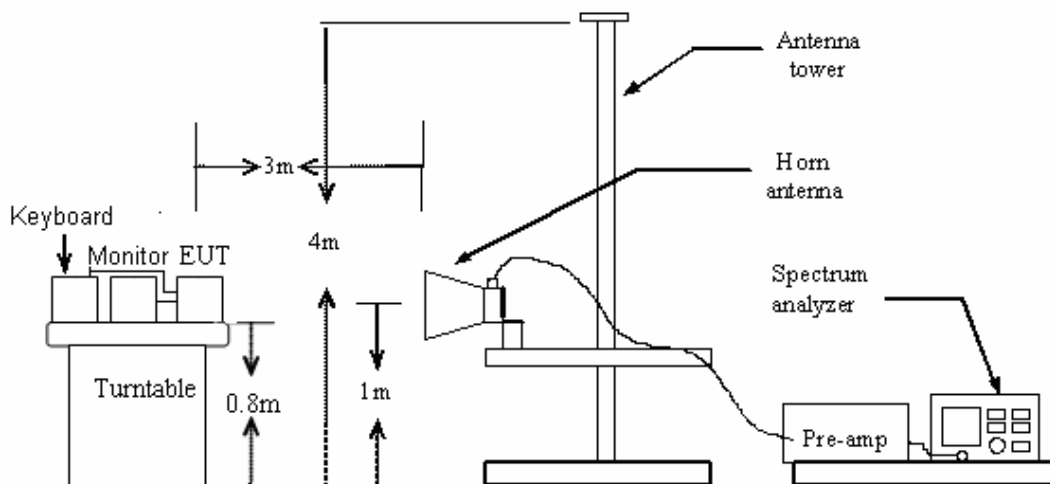
5.10 Restricted Frequency Bands

5.10.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.10.2 Test Configuration

Test Setup:



5.10.3 Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.10.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following plots.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

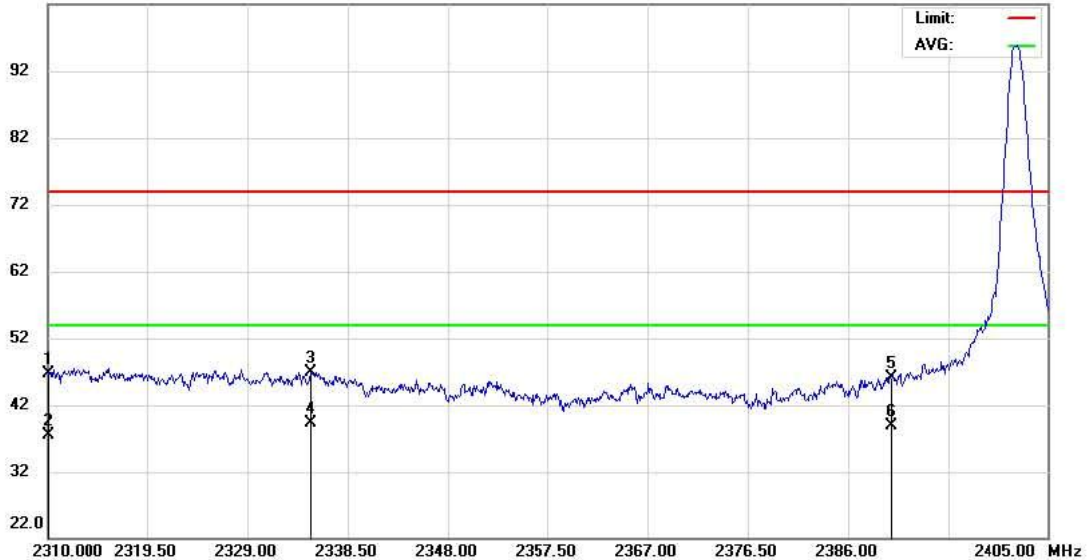
File: HX-P340

Data: #7

Date: 2015-2-9

Time: 15:53:18

102.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK -CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	36.63	10.04	46.67	74.00	-27.33	peak		
2		2310.000	27.43	10.04	37.47	54.00	-16.53	AVG		
3		2334.985	36.84	10.14	46.98	74.00	-27.02	peak		
4	*	2334.985	29.13	10.14	39.27	54.00	-14.73	AVG		
5		2390.000	35.77	10.36	46.13	74.00	-27.87	peak		
6		2390.000	28.46	10.36	38.82	54.00	-15.18	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

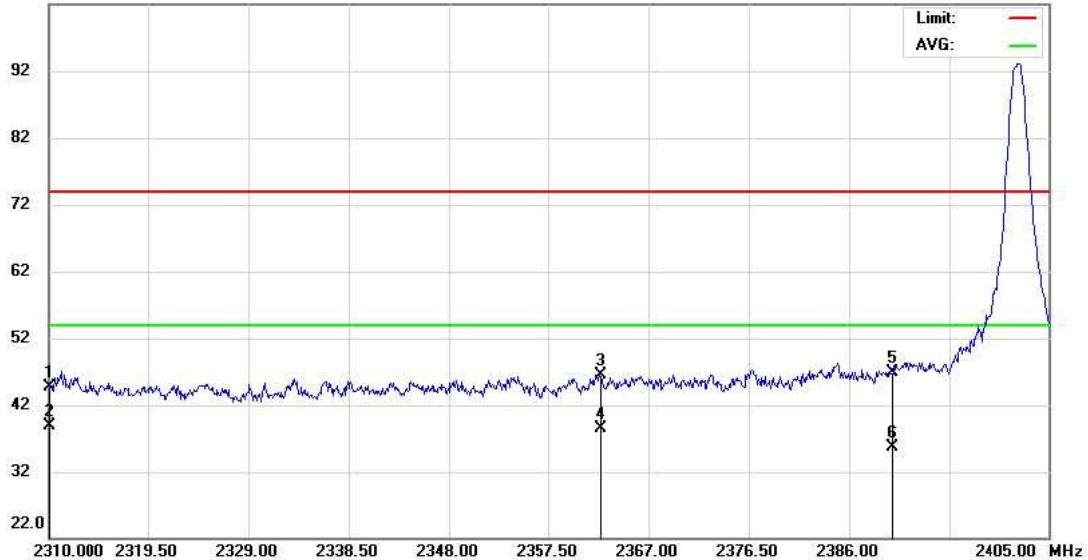
File: HX-P340

Data: #8

Date: 2015-2-9

Time: 16:08:37

102.0 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK -CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	34.60	10.04	44.64	74.00	-29.36	peak		
2	*	2310.000	28.81	10.04	38.85	54.00	-15.15	AVG		
3		2362.345	36.23	10.25	46.48	74.00	-27.52	peak		
4		2362.345	28.33	10.25	38.58	54.00	-15.42	AVG		
5		2390.000	36.55	10.36	46.91	74.00	-27.09	peak		
6		2390.000	25.36	10.36	35.72	54.00	-18.28	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

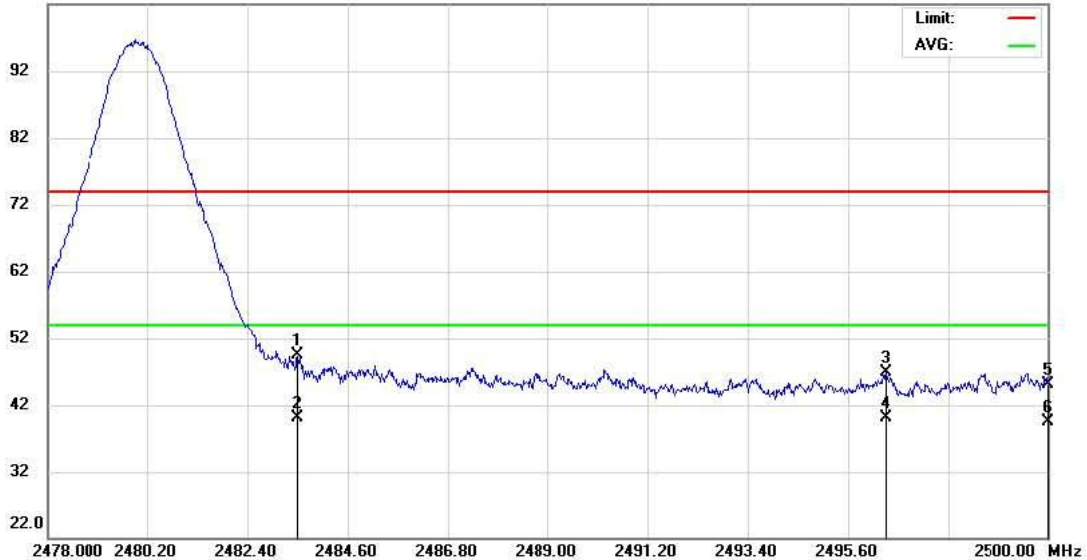
File: HX-P340

Data: #9

Date: 2015-2-9

Time: 16:24:12

102.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK -CH78

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	38.77	10.73	49.50	74.00	-24.50	peak		
2	*	2483.500	29.36	10.73	40.09	54.00	-13.91	AVG		
3		2496.436	36.08	10.79	46.87	74.00	-27.13	peak		
4		2496.436	29.30	10.79	40.09	54.00	-13.91	AVG		
5		2500.000	34.36	10.80	45.16	74.00	-28.84	peak		
6		2500.000	28.74	10.80	39.54	54.00	-14.46	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: HX-P340

Data: #10

Date: 2015-2-9

Time: 16:39:21

102.0 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 25

Limit: FCC RF LIMIT PEAK

Power: DC 5.0V by USB port

Humidity: 52 %

EUT: Dynamite Wireless Speaker

Distance: 3m

M/N: HX-P340

Mode: GFSK -CH78

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	39.47	10.73	50.20	74.00	-23.80	peak		
2	*	2483.500	32.16	10.73	42.89	54.00	-11.11	AVG		
3		2496.304	36.16	10.79	46.95	74.00	-27.05	peak		
4		2496.304	29.11	10.79	39.90	54.00	-14.10	AVG		
5		2500.000	35.68	10.80	46.48	74.00	-27.52	peak		
6		2500.000	28.64	10.80	39.44	54.00	-14.56	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

End of Report