



FCC&IC TEST REPORT

FCC ID: 2ABNA-P9IIHH, IC: 11648A-P9IIHH

On Behalf of

Guangzhou Geoelectron Science & Technology Company

Limited

P9II Handheld

Model No.: P9II PRO, P9II STD

Prepared for : Guangzhou Geoelectron Science & Technology Company Limited
Address : No.704, 7/F, Building C, No.7, Cai Pin Road, Science City, Luogang
District, Guangzhou, China

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TABLE OF CONTENTS

Description	Page
1. Summary of Standards And Results	6
1.1. Description of Standards and Results	6
2. General Information.....	7
2.1. Description of Device (EUT).....	7
2.2. Accessories of Device (EUT)	8
2.3. Tested Supporting System Details	8
2.4. Block Diagram of connection between EUT and simulators	8
2.5. Test Mode Description.....	8
2.6. Test Conditions	9
2.7. Test Facility	9
2.8. Measurement Uncertainty.....	9
2.9. Test Equipment List	10
3. Maximum Peak Output power	11
3.1. Limit	11
3.2. Test Procedure	11
3.3. Test Setup.....	11
3.4. Test Result	11
4. Bandwidth.....	12
4.1. Limit	12
4.2. Test Procedure	12
4.3. Test Result	12
5. Carrier Frequency Separation.....	15
5.1. Limit	15
5.2. Test Procedure	15
5.3. Test Result	15
6. Number Of Hopping Channel.....	17
6.1. Limit	17
6.2. Test Procedure	17
6.3. Test Result	17
7. Dwell Time.....	19
7.1. Test limit	19
7.2. Test Procedure	19
7.3. Test Result	19
8. Radiated emissions.....	23
8.1. Limit	23
8.2. Block Diagram of Test setup	26
8.3. Test Procedure	27
8.4. Test Result	27
9. Band Edge Compliance	33

9.1. Block Diagram of Test Setup.....	33
9.2. Limit	33
9.3. Test Procedure	33
9.4. Test Result	33
10. Power Line Conducted Emissions	49
10.1. Block Diagram of Test Setup.....	49
10.2. Limit	49
10.3. Test Procedure	49
10.4. Test Result	50
11. Frequency stability.....	53
11.1. Test limit	53
11.2. Test Procedure	53
11.3. Test Setup.....	53
11.4. Test Results	53
12. Antenna Requirements	55
12.1. Limit	55
12.2. Result	55

TEST REPORT DECLARATION

Applicant : Guangzhou Geoelectron Science & Technology Company Limited
Address : No.704, 7/F, Building C, No.7, Cai Pin Road, Science City, Luogang District,
Guangzhou, China
Manufacturer : Guangzhou Geoelectron Science & Technology Company Limited
Address : No.704, 7/F, Building C, No.7, Cai Pin Road, Science City, Luogang District,
Guangzhou, China
EUT Description : P9II Handheld
(A) Model No. : P9II PRO, P9II STD
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247,
RSS-247 Issue 2, RSS-Gen Issue 5, ANSI C63.10:2013, CISPR 16-1-4:2010**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang
Project Engineer

Approved by (name + signature).....: Simple Guan
Project Manager

Date of issue.....: February 04, 2019

Revision History

Revision	Issue Date	Revisions	Revised By
00	February 04, 2019	Initial released Issue	Simple Guan

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:

Test Item	Standards Paragraph	Result
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) RSS-247(5.4 b) ANSI C63.10 :2013	P
Bandwidth	FCC Part 15: 15.215 RSS-247(5.1 a) ANSI C63.10 :2013	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) RSS-247(5.1 b) ANSI C63.10 :2013	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1) RSS-247(5.1 d) ANSI C63.10 :2013	P
Dwell Time	FCC Part 15: 15.247(a)(1) RSS-247(5.1 d) ANSI C63.10 :2013	P
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) RSS-Gen(8.9), RSS-247(5.5) ANSI C63.10 :2013	P
Band Edge Compliance	FCC Part 15: 15.247(d) RSS-Gen(8.9), RSS-247(5.5) ANSI C63.10 :2013	P
Power Line Conducted Emissions	FCC Part 15: 15.207 RSS-GEN(8.8) ANSI C63.10 :2013	P
Frequency stability	RSS-GEN(6.11)	P
Antenna requirement	FCC Part 15: 15.203 RSS-GEN(6.8)	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description/PMN	: P9II Handheld
Model	: P9II PRO, P9II STD
Number/FVIN(s)	
Diff.	: They are all the same, except that P9II PRO with M8T GPS receiver, P9II STD without M8T GPS receiver, the result of this report belongs to P9II PRO.
Trademark	: N/A
Test Voltage	: DC 7.2V from battery, DC 15V For Charging
Radio Technology	: Bluetooth 4.1 EDR
Operation frequency	: 2402-2480MHz
Channel No.	: 79 Channels
Modulation type	: GFSK, $\pi/4$ DQPSK, 8- DPSK
Antenna Type	: Internal antenna, Maximum Gain is 1.56dBi for BT
Software version	: V1.0
Hardware Version/FVIN	: V1.3

Remark: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found.
Results in this report are only for Bluetooth 4.1 EDR function, and there is no other transmitter involved.

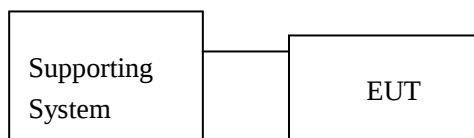
2.2. Accessories of Device (EUT)

Accessories1	:	USB-PD Chager
Manufacturer	:	Kuantech (Cambodia) Corpration Limited
Model	:	KSA-45P-45W D5
Input	:	AC 100-240V, 50/60Hz, 1.5A
Output	:	DC 5V/3A, DC 9V/3A, DC 12V/3A, DC 15V/3A, DC 20V/2.25A, DC 3.3-16V/3A Max., 45W Max.

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Notebook	ACER	ZQT	N/A	DOC

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
π /4 DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.6.Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	25℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7.Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

Designation Number: CN1236

July 25, 2017 Certificated by IC

Registration Number: 12135A

2.8.Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10^{-8}
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9.Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2018.09.21	1Year
Receiver	R&S	ESCI	1166.5950K03-1011	2018.09.21	1Year
Receiver	R&S	ESCI	101202	2018.09.21	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2018.04.13	2Year
Horn Antenna	EMCO	3115	640201028-06	2018.04.13	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2018.04.13	2Year
Cable	Resenberger	N/A	No.1	2018.09.21	1Year
Cable	SCHWARZBECK	N/A	No.2	2018.09.21	1Year
Cable	SCHWARZBECK	N/A	No.3	2018.09.21	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2018.09.21	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	2018.09.21	1Year
Temperature controller	Terchy	MHQ	120	2018.09.21	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2018.09.21	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2018.09.21	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2018.09.21	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170294	2018.04.13	2 Year
Power Meter	Agilent	E9300A	MY41496625	2018.09.21	1Year
Temperature Chamber	Gongwen	GDS-250	080943	2018.09.11	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2018.09.11	1 Year

3. MAXIMUM PEAK OUTPUT POWER

3.1.Limit

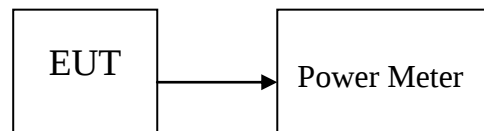
Please refer FCC part 15.247 & RSS-247..

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

3.2.Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3.Test Setup



3.4.Test Result

Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Result
GFSK	2402	2.884	1.943	30	Pass
	2441	3.451	2.214	30	Pass
	2480	2.297	1.697	30	Pass
π /4 DQPSK	2402	2.447	1.757	21	Pass
	2441	2.945	1.970	21	Pass
	2480	1.847	1.530	21	Pass
8- DPSK	2402	2.945	1.970	21	Pass
	2441	3.490	2.234	21	Pass
	2480	2.331	1.710	21	Pass
Conclusion: PASS					

4. BANDWIDTH

4.1.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), 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.

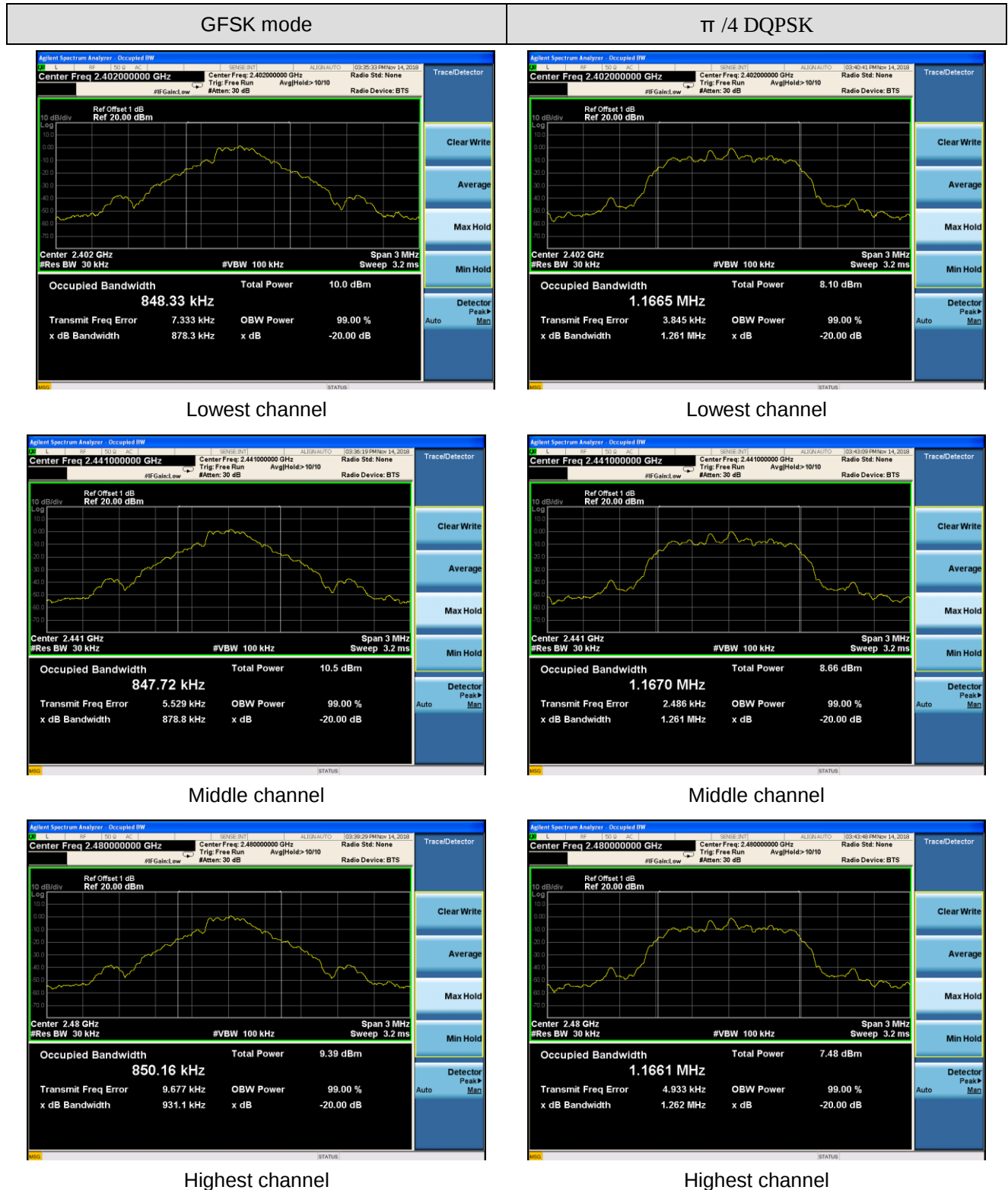
4.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

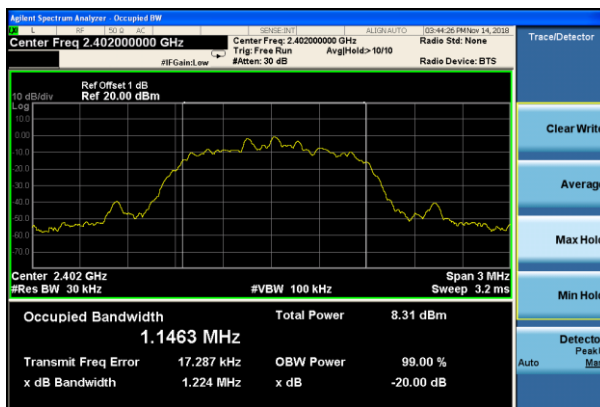
4.3.Test Result

Mode	Freq (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)	Conclusion
GFSK	2402	848.33	878.3	PASS
	2441	847.72	878.8	PASS
	2480	850.16	931.1	PASS
π /4 DQPSK	2402	1166.5	1261.0	PASS
	2441	1167.0	1261.0	PASS
	2480	1166.1	1262.0	PASS
8- DPSK	2402	1146.3	1224.0	PASS
	2441	1146.1	1224.0	PASS
	2480	1146.2	1224.0	PASS

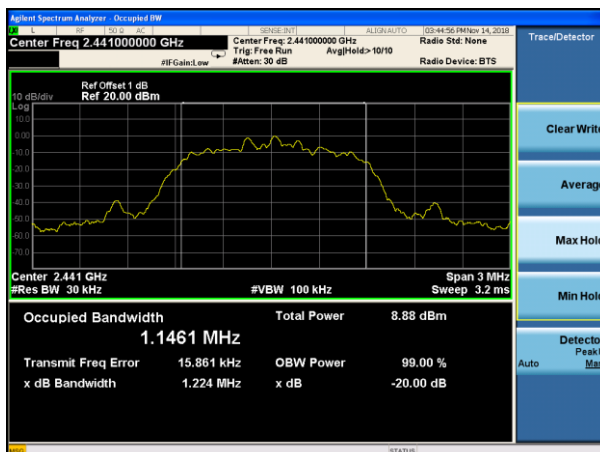
Original Test data



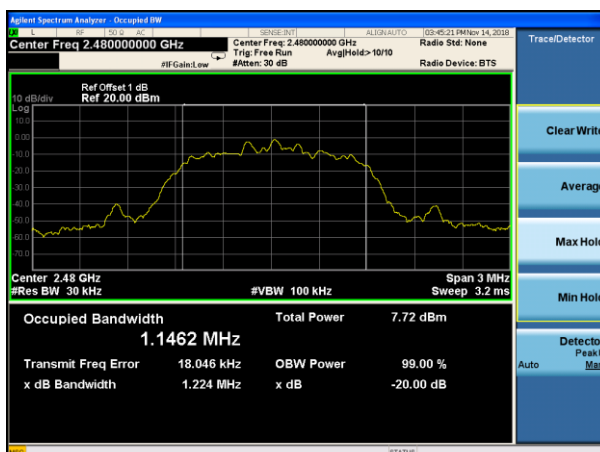
8- DPSK



Lowest channel



Middle channel



Highest channel

5. CARRIER FREQUENCY SEPARATION

5.1.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

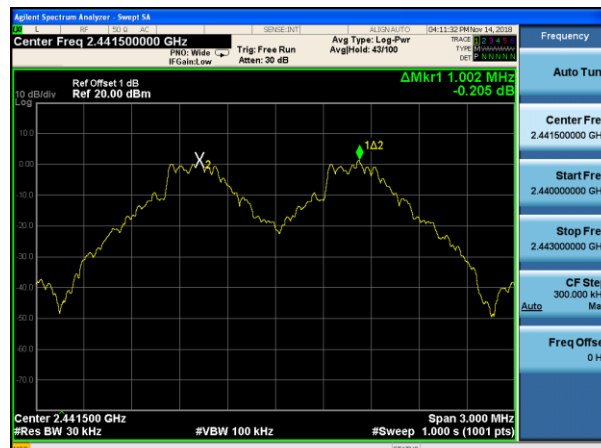
5.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

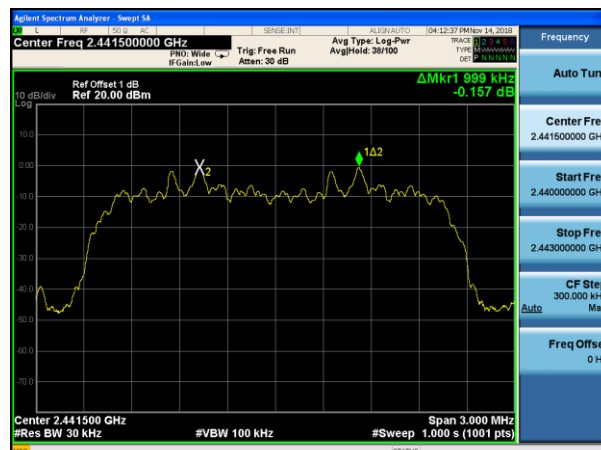
5.3.Test Result

Mode/Channel	Channel separation (MHz)	20dB Bandwidth (KHz)	Limit (KHz)	Conclusion
GFSK	1.002	931.1	931.1	PASS
$\pi/4$ DQPSK	0.999	1262.0	841.3	PASS
8- DPSK	0.996	1224.0	816.0	PASS

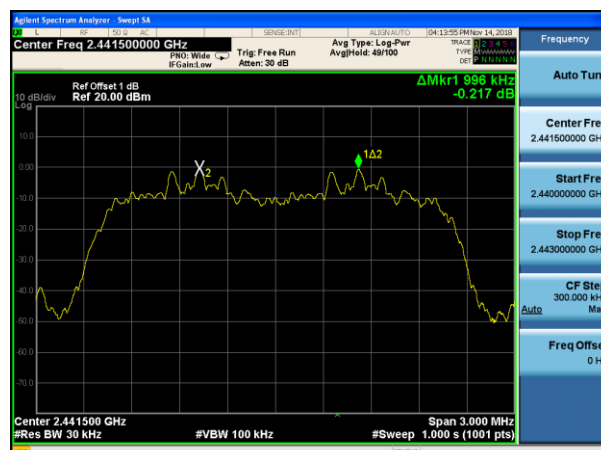
Original test data for channel separation



GFSK



$\pi/4$ DQPSK



8- DPSK

6. NUMBER OF HOPPING CHANNEL

6.1.Limit

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

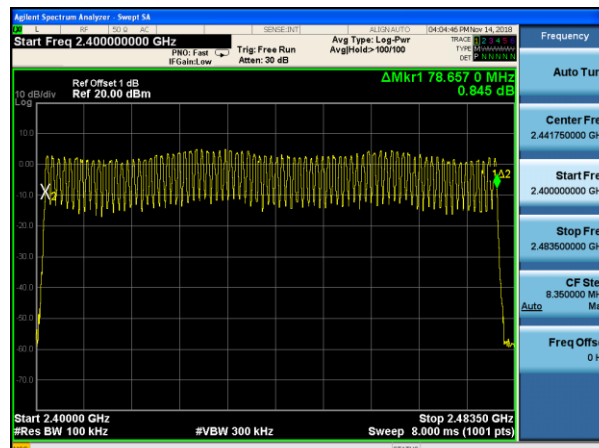
6.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

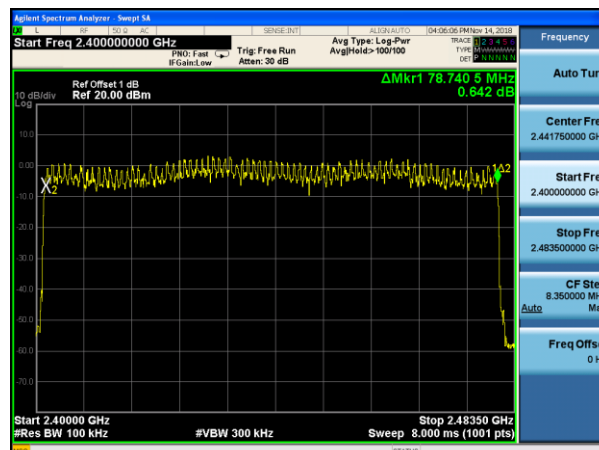
6.3.Test Result

Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
π /4 DQPSK	79	>15	PASS
8- DPSK	79	>15	PASS

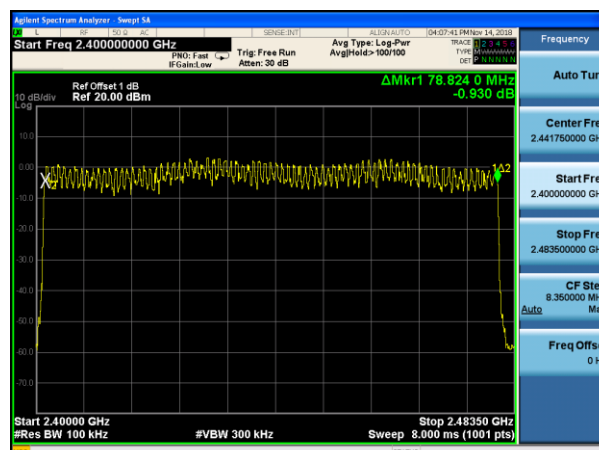
Original test data for hopping channel number



GFSK



$\pi/4$ DQPSK



8- DPSK

7. DWELL TIME

7.1. Test limit

Please refer FCC part 15.247 & RSS-247.

Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Result

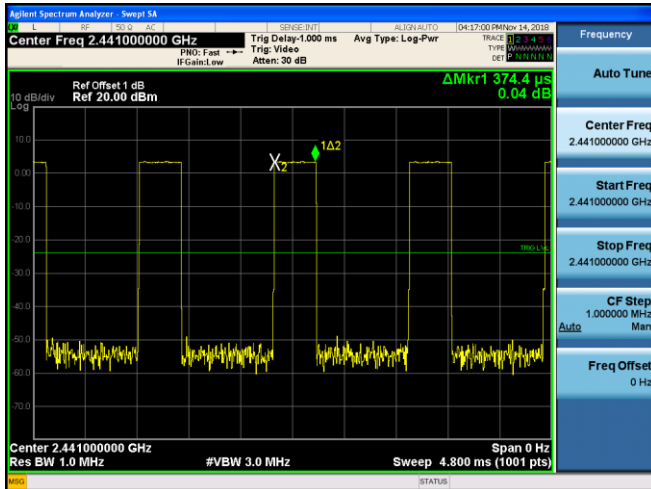
PASS.

Detailed information please see the following page.

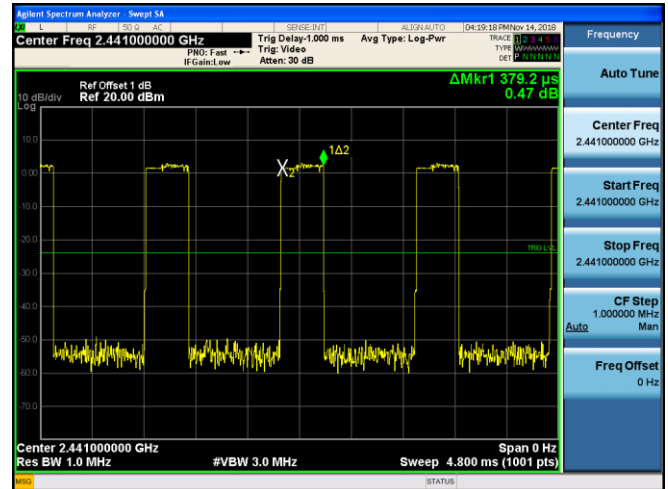
Note: 1 A period time = $0.4 \text{ (s)} * 79 = 31.6 \text{ (s)}$
 2 DH1 time slot = $\text{Pulse Duration} * (1600 / (1 * 79)) * \text{A period time} / 1000$
 DH3 time slot = $\text{Pulse Duration} * (1600 / (3 * 79)) * \text{A period time} / 1000$
 DH5 time slot = $\text{Pulse Duration} * (1600 / (5 * 79)) * \text{A period time} / 1000$

Dwell time

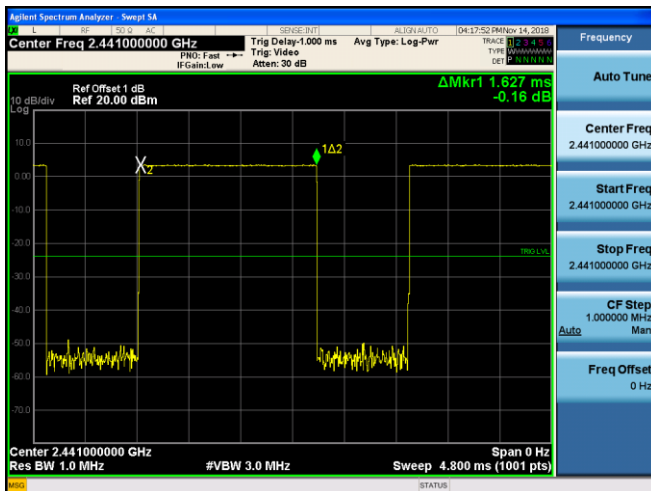
GFSK

 $\pi/4$ -DQPSK

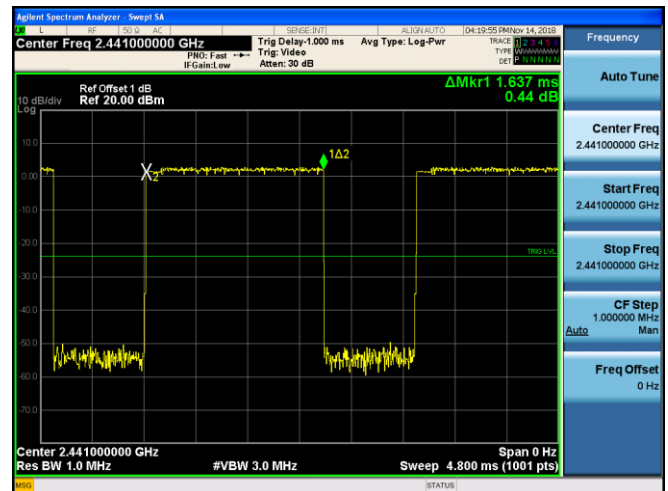
Channel 39 / 2441 MHz - DH1



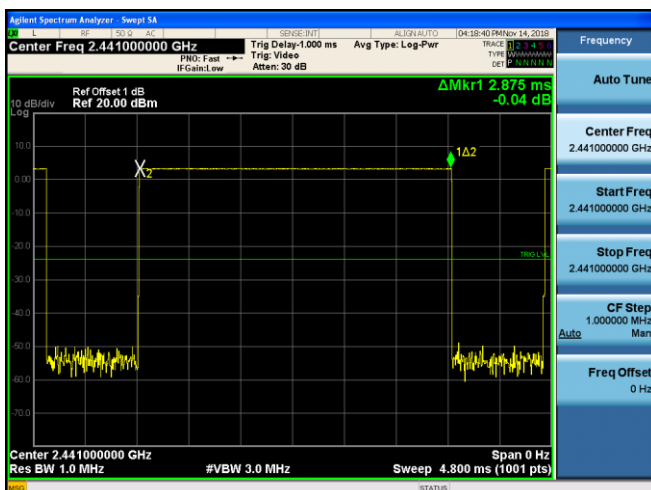
Channel 39 / 2441 MHz - 2DH1



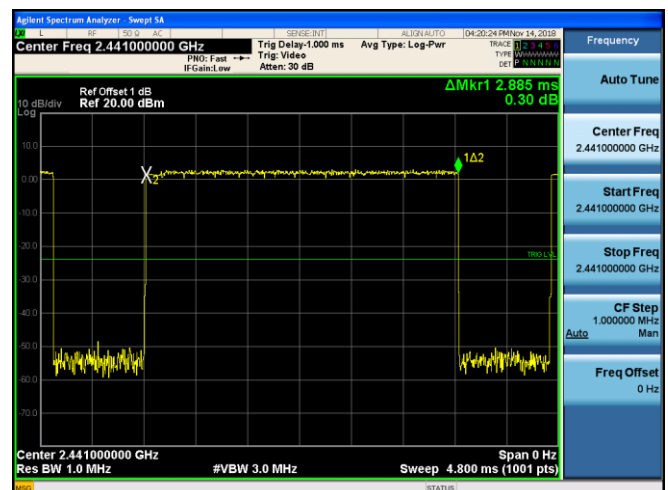
Channel 39 / 2441 MHz - DH3



Channel 39 / 2441 MHz - 2DH3



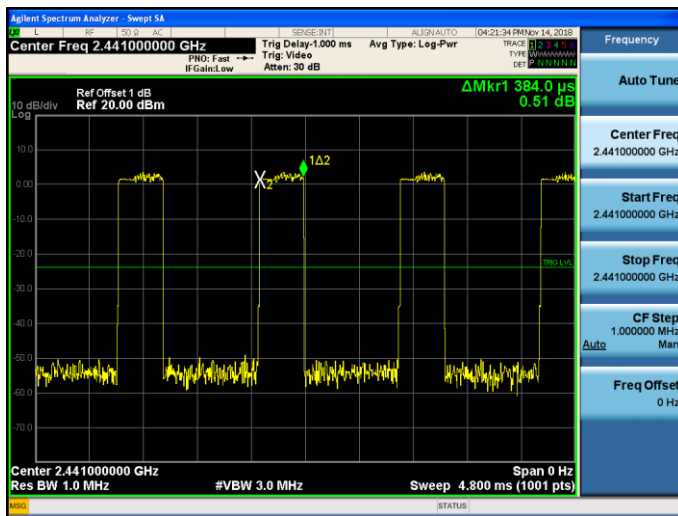
Channel 39 / 2441 MHz - DH5



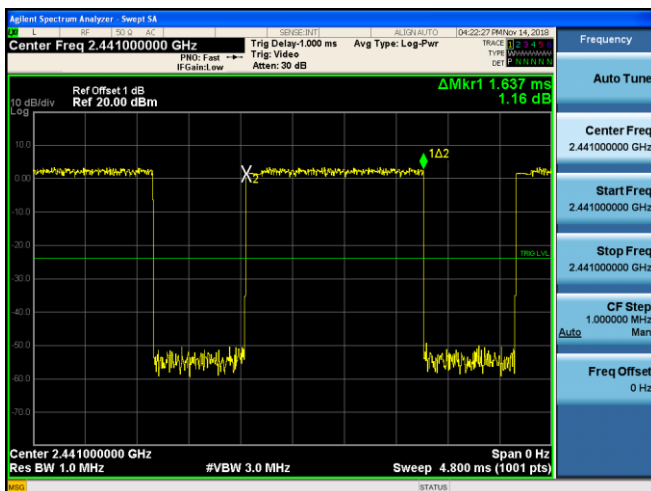
Channel 39 / 2441 MHz - 2DH5

Dwell time

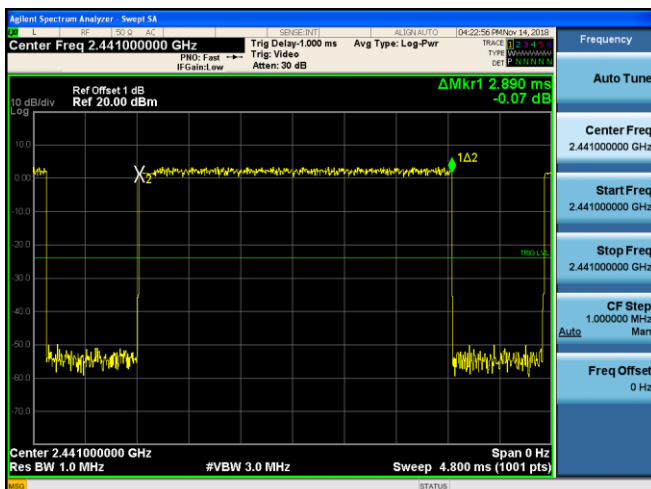
8DPSK



Channel 39 / 2441 MHz - 3DH1



2 Channel 39 / 2441 MHz - 3DH3



Channel 39 / 2441 MHz - 3DH5

8. RADIATED EMISSIONS

8.1.Limit

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.

15.205 Restricted frequency band

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)

RSS-GEN Restricted frequency band

Table 7 – Restricted frequency bands ^{Note 1}

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12

6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009-0.490	300	$2400/\text{F}(\text{KHz})$	/
0.490-1.705	30	$24000/\text{F}(\text{KHz})$	/
1.705-30	30	30	29.5
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)	

Note: The peak limit is 20 dB higher than the average limit

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

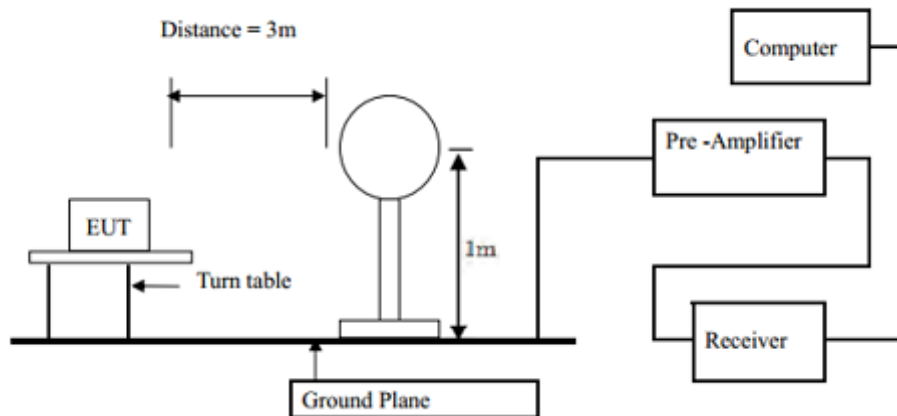
Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) ($\mu\text{A}/\text{m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	$6.37/\text{F}$ (F in kHz)	300
490 - 1705 kHz	$63.7/\text{F}$ (F in kHz)	30
1.705 - 30 MHz	0.08	30

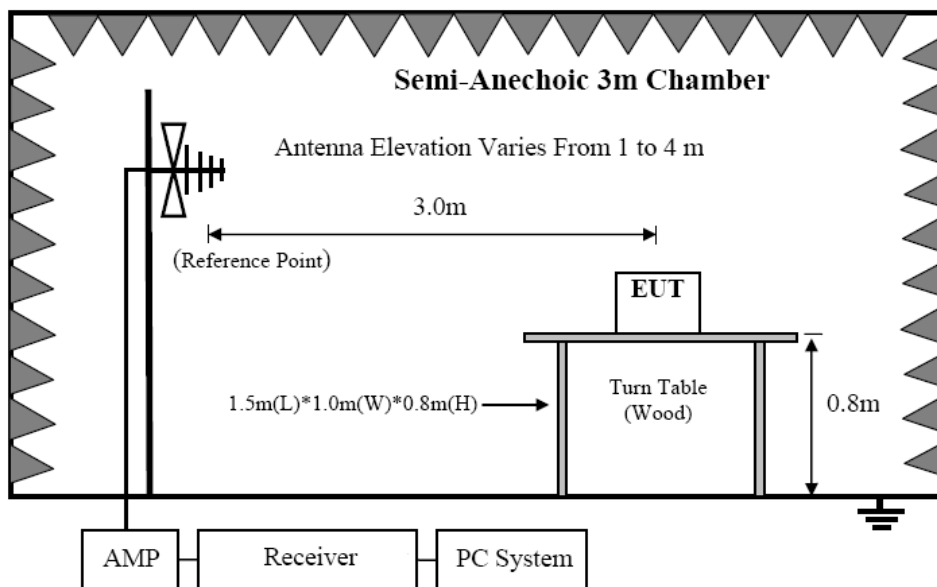
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

8.2. Block Diagram of Test setup

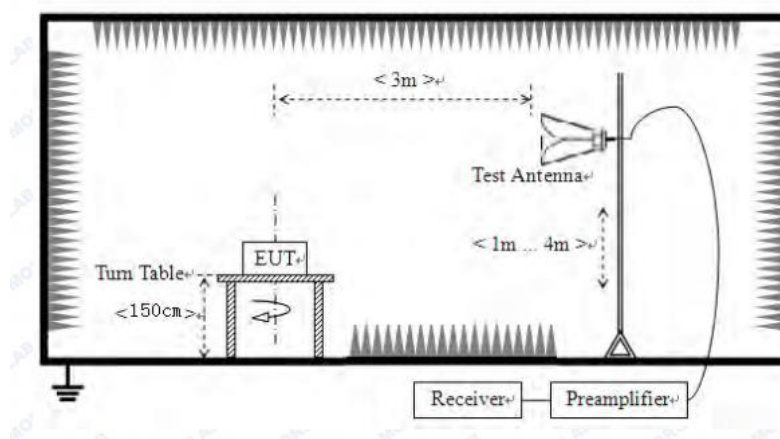
8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
- (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

8.4. Test Result

We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency. Detailed information please see the following page.

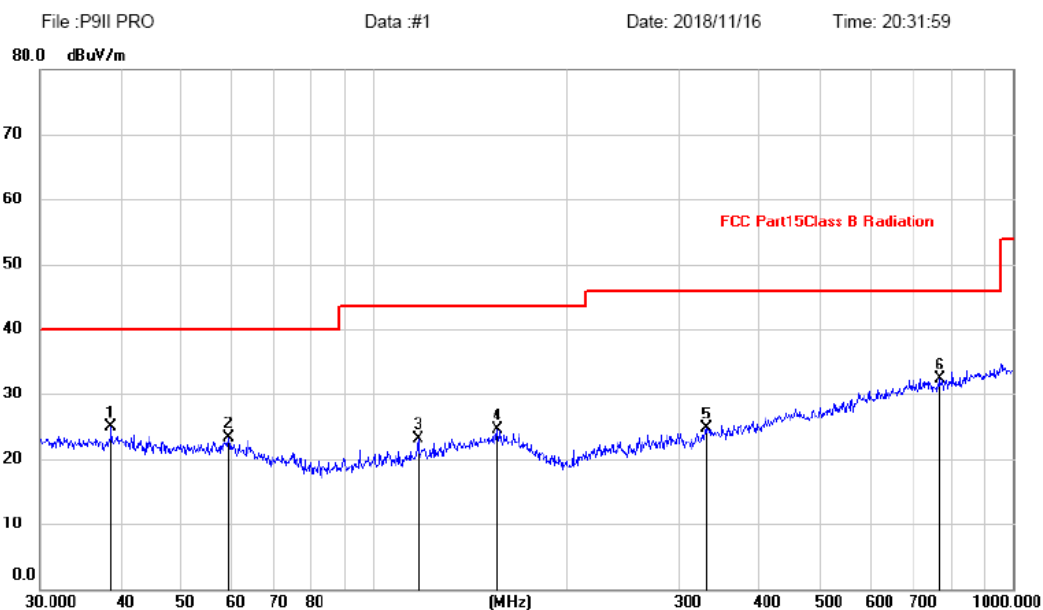
From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS

Vertical:

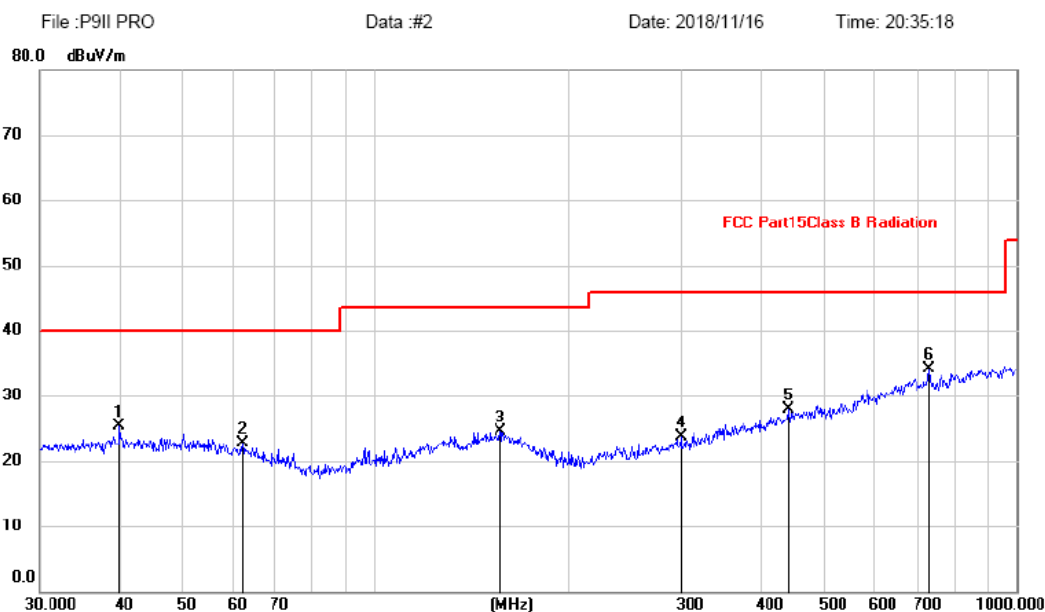
Radiated Emission Measurement



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table
		MHz	Level	Factor	ment			Height	Degree
			dBuV	dB	dBuV/m	dBuV/m	dB	m	degree
1		38.8878	10.80	14.15	24.95	40.00	-15.05	peak	1-4
2		59.2325	10.30	13.05	23.35	40.00	-16.65	peak	1-4
3		117.3602	10.81	12.32	23.13	43.50	-20.37	peak	1-4
4		155.9101	9.89	14.57	24.46	43.50	-19.04	peak	1-4
5		330.1949	10.46	14.28	24.74	46.00	-21.26	peak	1-4
6	*	766.0571	10.59	21.78	32.37	46.00	-13.63	peak	1-4

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Horizontal:**Radiated Emission Measurement**

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	m	degree
1		39.8542	11.05	14.23	25.28	40.00	-14.72	peak	1-4 0-360
2		61.9951	10.25	12.55	22.80	40.00	-17.20	peak	1-4 0-360
3		157.0073	9.87	14.58	24.45	43.50	-19.05	peak	1-4 0-360
4		299.3158	10.29	13.46	23.75	46.00	-22.25	peak	1-4 0-360
5		441.7425	11.24	16.67	27.91	46.00	-18.09	peak	1-4 0-360
6	*	731.9202	12.64	21.37	34.01	46.00	-11.99	peak	1-4 0-360

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Remark: All modes have been tested, and only worst data of 8-DPSK mode, Channel 2441MHz (AC 120V/60Hz) was listed in this report.

Test Mode: GFSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	43.29	V	33.95	10.18	34.26	53.16	74	-20.84	PK
4804	34.55	V	33.95	10.18	34.26	44.42	54	-9.58	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	43.31	H	33.95	10.18	34.26	53.18	74	-20.82	PK
4804	34.36	H	33.95	10.18	34.26	44.23	54	-9.77	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX Mid									
4882	41.24	V	33.93	10.2	34.29	51.08	74	-22.92	PK
4882	32.24	V	33.93	10.2	34.29	42.08	54	-11.92	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	42.08	H	33.93	10.2	34.29	51.92	74	-22.08	PK
4882	32.73	H	33.93	10.2	34.29	42.57	54	-11.43	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: GFSK TX High									
4960	41.85	V	33.98	10.22	34.25	51.80	74	-22.20	PK
4960	32.58	V	33.98	10.22	34.25	42.53	54	-11.47	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	42.57	H	33.98	10.22	34.25	52.52	74	-21.48	PK
4960	32.08	H	33.98	10.22	34.25	42.03	54	-11.97	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: $\pi/4$ DQPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	43.22	V	33.95	10.18	34.26	53.09	74	-20.91	PK
4804	32.01	V	33.95	10.18	34.26	41.88	54	-12.12	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	43.50	H	33.95	10.18	34.26	53.37	74	-20.63	PK
4804	32.11	H	33.95	10.18	34.26	41.98	54	-12.02	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: $\pi/4$ DQPSK TX Mid									
4882	43.72	V	33.93	10.2	34.25	53.60	74	-20.40	PK
4882	31.23	V	33.93	10.2	34.25	41.11	54	-12.89	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	43.94	H	33.93	10.2	34.29	53.78	74	-20.22	PK
4882	33.59	H	33.93	10.2	34.29	43.43	54	-10.57	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: $\pi/4$ DQPSK TX High									
4960	41.95	V	33.98	10.22	34.25	51.90	74	-22.10	PK
4960	32.91	V	33.98	10.22	34.25	42.86	54	-11.14	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	43.14	H	33.98	10.22	34.25	53.09	74	-20.91	PK
4960	32.09	H	33.98	10.22	34.25	42.04	54	-11.96	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

Note:

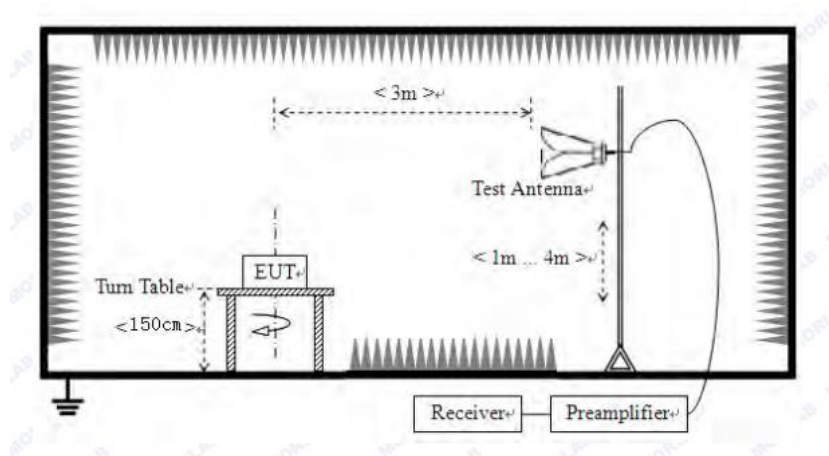
1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: 8- DQPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	41.57	V	33.95	10.18	34.26	51.44	74	-22.56	PK
4804	32.02	V	33.95	10.18	34.26	41.89	54	-12.11	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	41.26	H	33.95	10.18	34.26	51.13	74	-22.87	PK
4804	32.27	H	33.95	10.18	34.26	42.14	54	-11.86	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: 8- DQPSK TX Mid									
4882	41.68	V	33.93	10.2	34.29	51.52	74	-22.48	PK
4882	32.62	V	33.93	10.2	34.29	42.46	54	-11.54	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
4882	42.76	H	33.93	10.2	34.29	52.60	74	-21.40	PK
4882	33.19	H	33.93	10.2	34.29	43.03	54	-10.97	AV
7323	/	/	/	/	/	/	/	/	/
9764	/	/	/	/	/	/	/	/	/
Test Mode: 8- DQPSK TX High									
4960	41.85	V	33.98	10.22	34.25	51.80	74	-22.20	PK
4960	32.87	V	33.98	10.22	34.25	42.82	54	-11.18	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	42.56	H	33.98	10.22	34.25	52.51	74	-21.49	PK
4960	33.06	H	33.98	10.22	34.25	43.01	54	-10.99	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

9. BAND EDGE COMPLIANCE

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in FCC part 15.209 and RSS-GEN, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with FCC part 15.209 and RSS-GEN limits.

9.3. Test Procedure

Refer to ANSI C 63.10, Clause 6.10.

All restriction band and non- restriction band have been tested, only worse case is reported.

9.4. Test Result

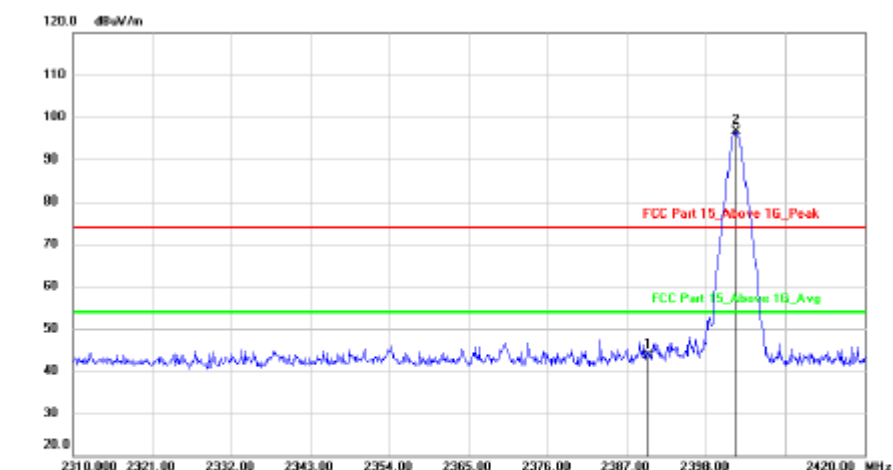
PASS. (See below detailed test data)

Radiated Method:

Polarization: Vertical

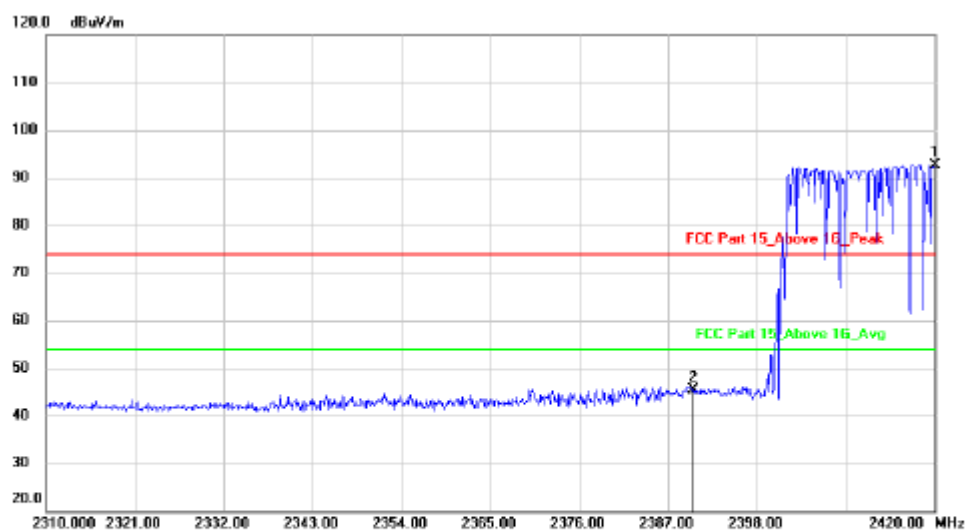
Test Mode:

GFSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	dBuV	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2390.000	47.08	-3.40	43.68	74.00	-30.32	peak		
2	*	2402.180	100.08	-3.41	96.67	74.00	22.67	peak		

hopping-off



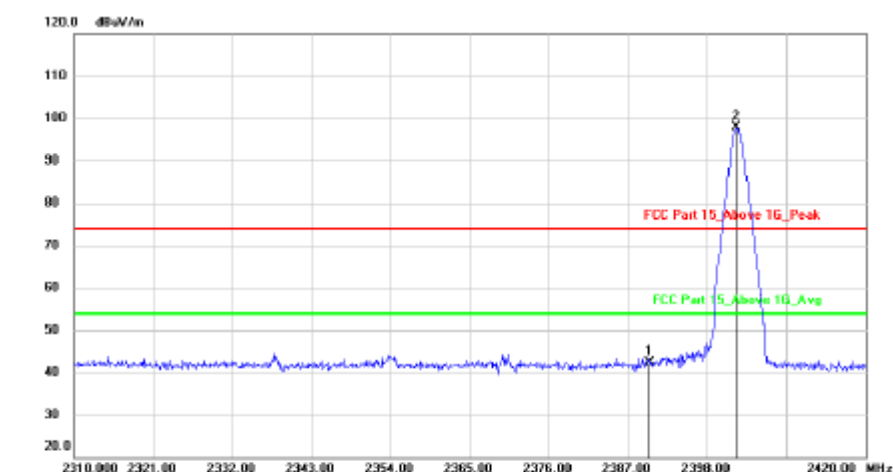
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	dBuV	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2420.000	96.06	-3.41	92.65	74.00	18.65	peak		
2		2390.000	48.72	-3.40	45.32	74.00	-28.68	peak		

hopping-on

Polarization: Horizontal:

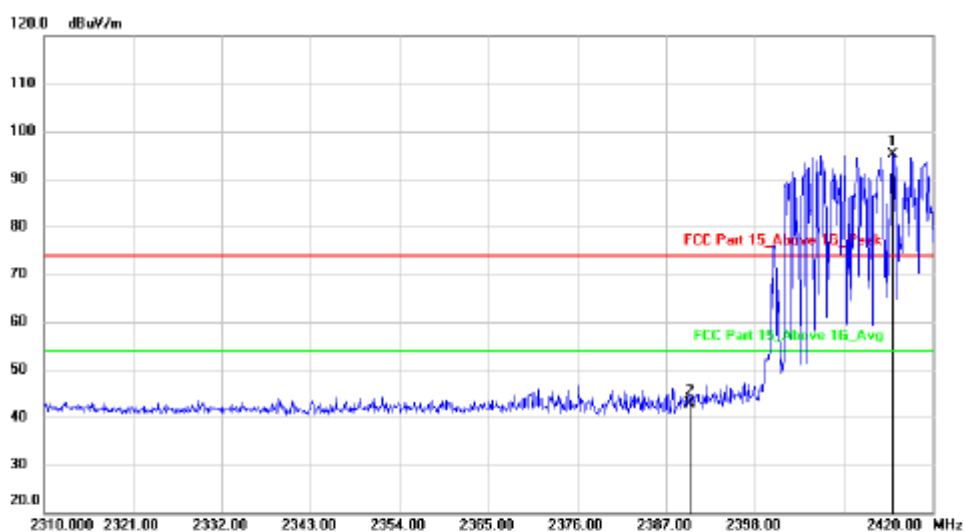
Test Mode:

GFSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		2390.000	45.82	-3.40	42.42	74.00	-31.58	peak		
2	*	2402.070	101.26	-3.41	97.85	74.00	23.85	peak		

hopping-off

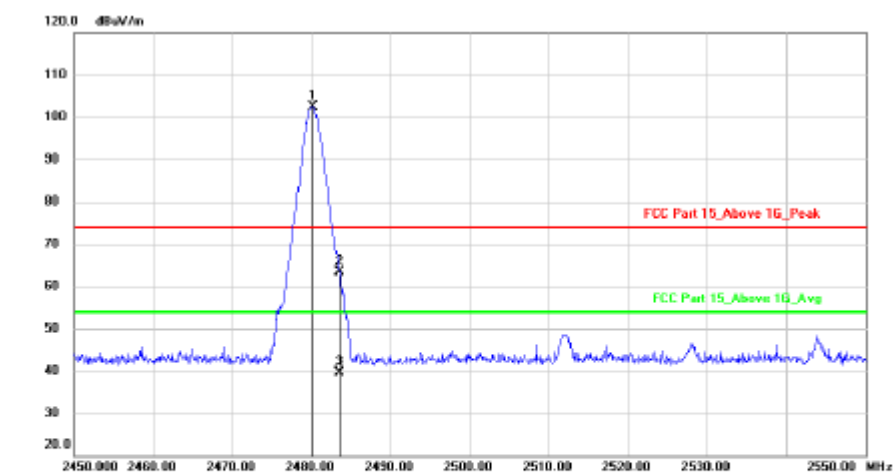


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	2415.050	98.50	-3.41	95.09	74.00	21.09	peak		
2		2390.000	46.40	-3.40	43.00	74.00	-31.00	peak		

hopping-on

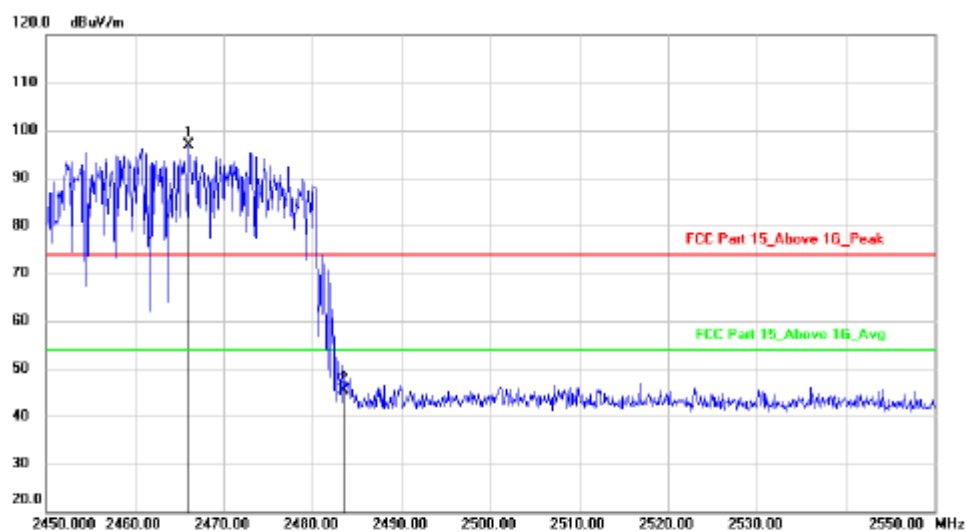
Polarization: Vertical

Test Mode: GFSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	105.85	-3.38	102.47	74.00	28.47	peak		
2		2483.500	66.71	-3.38	63.33	74.00	-10.67	peak		
3		2483.500	43.01	-3.38	39.63	54.00	-14.37	AVG		

hopping-off

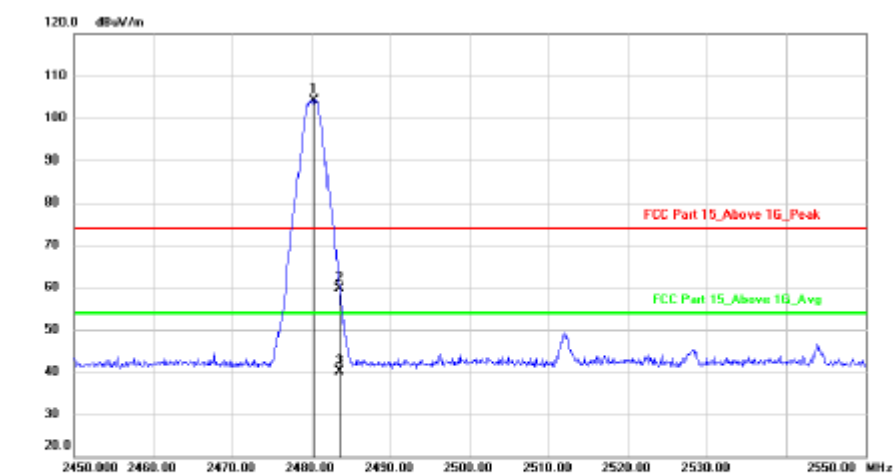


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2486.100	100.24	-3.39	96.85	74.00	22.85	peak		
2		2483.500	48.75	-3.38	45.37	74.00	-28.63	peak		

hopping-on

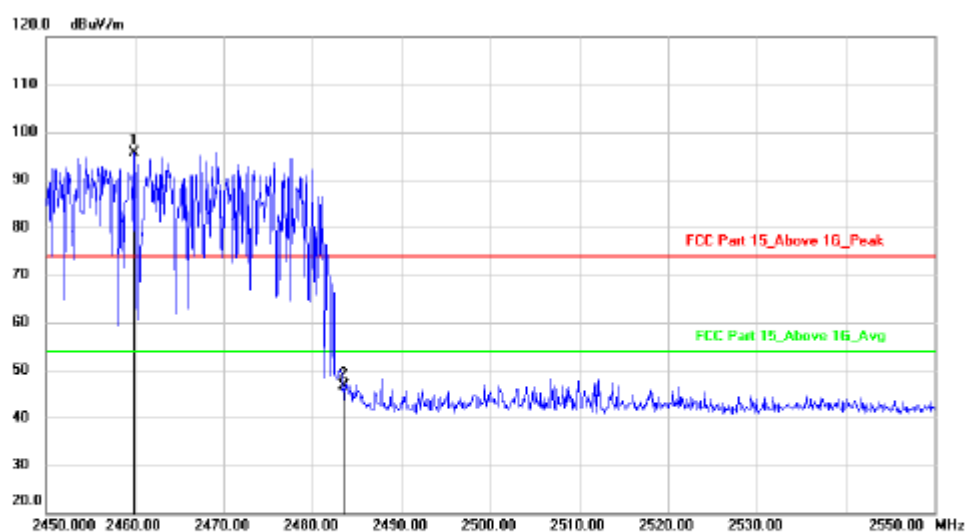
Polarization: Horizontal

Test Mode: GFSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	2480.300	107.51	-3.38	104.13	74.00	30.13	peak		
2		2483.500	63.07	-3.38	59.69	74.00	-14.31	peak		
3		2483.500	43.63	-3.38	40.25	54.00	-13.75	AVG		

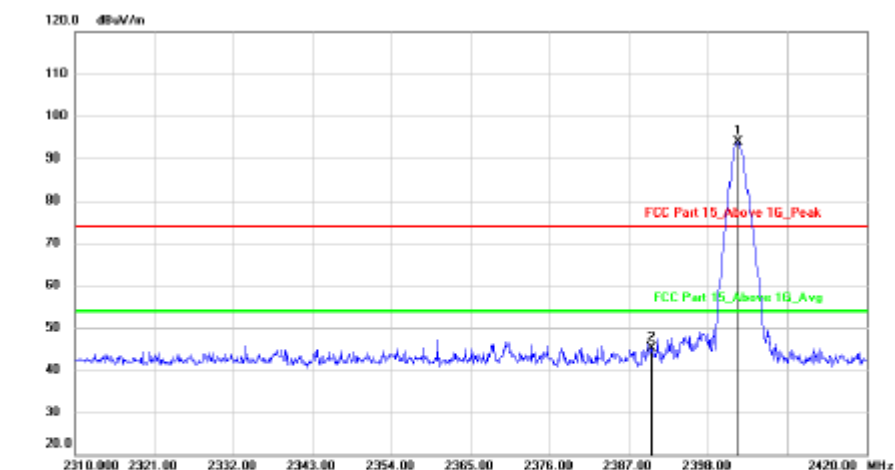
hopping-off



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1	*	2459.900	99.12	-3.39	95.73	74.00	21.73	peak		
2		2483.500	49.89	-3.38	46.51	74.00	-27.49	peak		

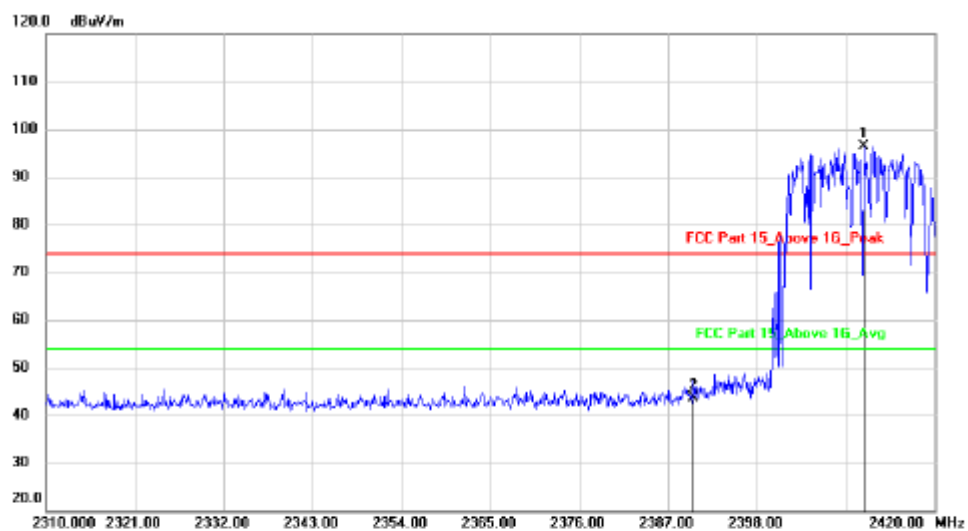
hopping-on

Polarization: Vertical

Test Mode: $\pi/4$ DQPSK-Low

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	97.28	-3.41	93.87	74.00	19.87	peak		
2		2390.000	48.63	-3.40	45.23	74.00	-28.77	peak		

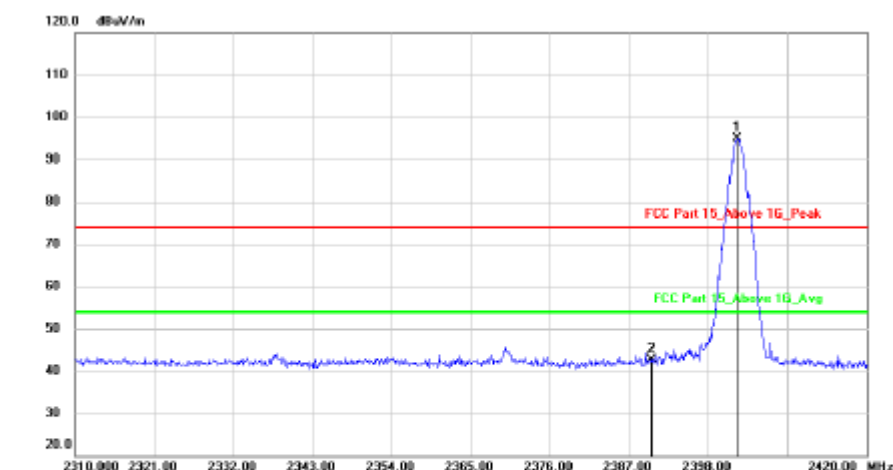
hopping-off



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2411.200	99.78	-3.40	96.38	74.00	22.38	peak		
2		2390.000	47.10	-3.40	43.70	74.00	-30.30	peak		

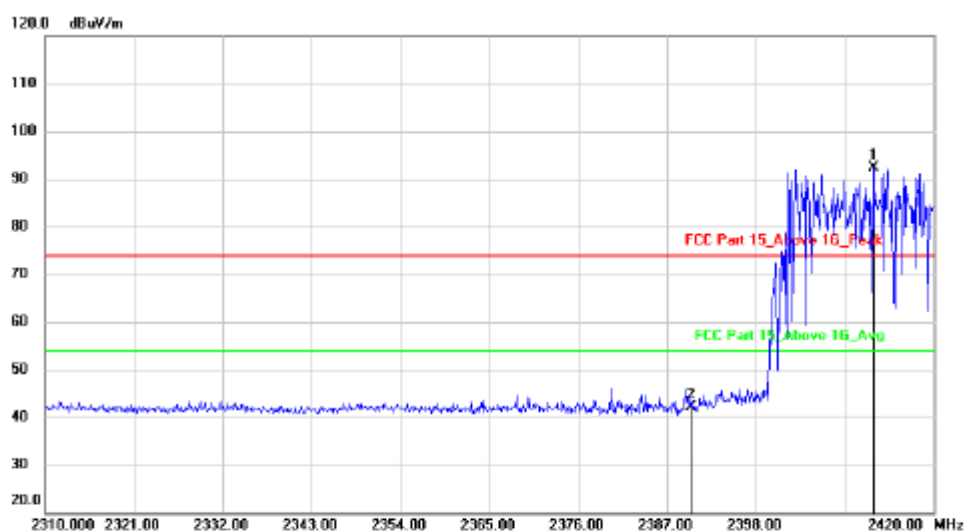
hopping-on

Polarization: Horizontal

Test Mode: $\pi/4$ DQPSK-Low

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2401.960	98.35	-3.41	94.94	74.00	20.94	peak		
2		2390.000	46.02	-3.40	42.62	74.00	-31.38	peak		

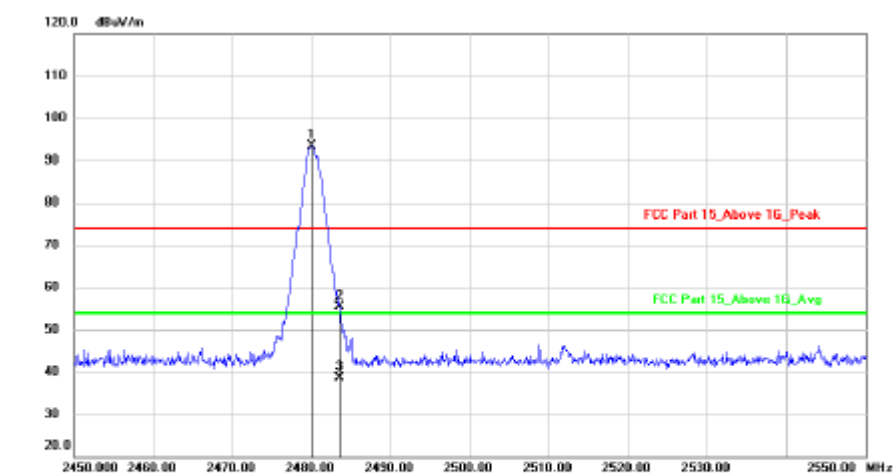
hopping-off



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2412.520	95.81	-3.41	92.40	74.00	18.40	peak		
2		2390.000	45.52	-3.40	42.12	74.00	-31.88	peak		

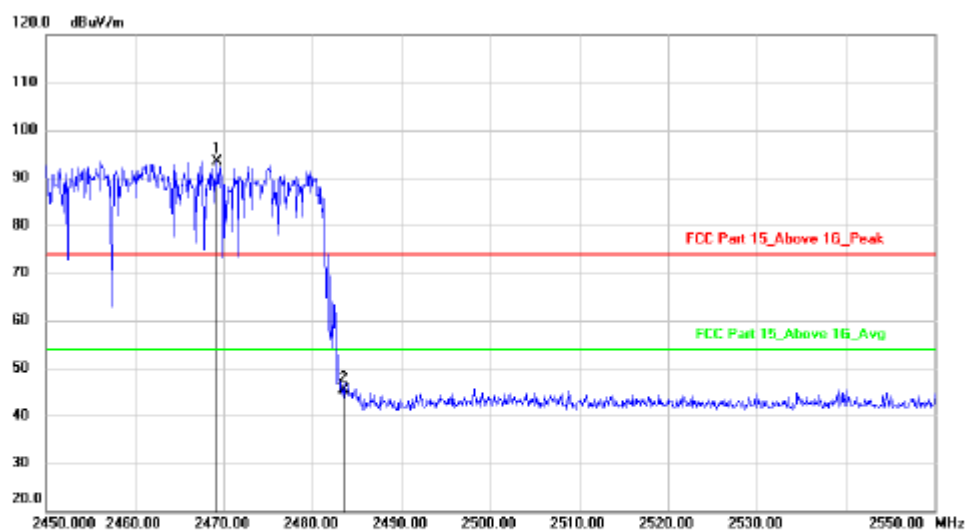
hopping-on

Polarization: Vertical

Test Mode: $\pi/4$ DQPSK-High

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	dBuV	Factor	ment			Height	Degree	
					dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2480.100	96.86	-3.38	93.48	74.00	19.48	peak		
2		2483.500	58.72	-3.38	55.34	74.00	-18.66	peak		
3		2483.500	42.01	-3.38	38.63	54.00	-15.37	AVG		

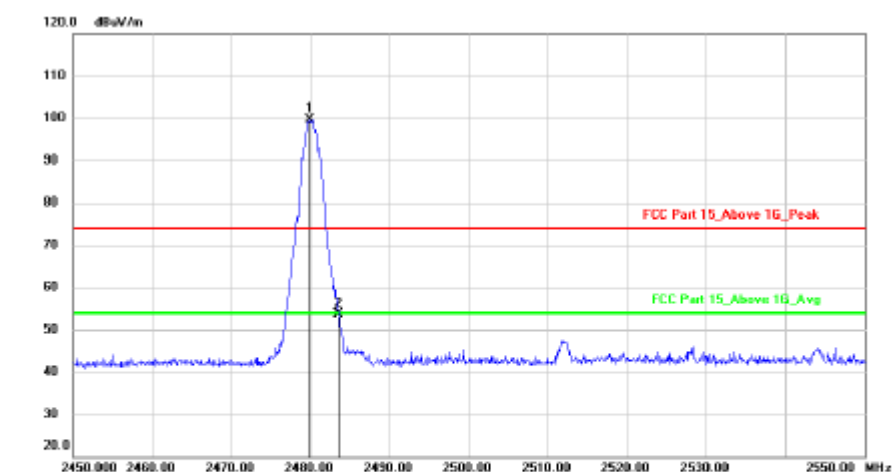
hopping-off



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	dBuV	Factor	ment			Height	Degree	
					dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2469.300	96.86	-3.39	93.47	74.00	19.47	peak		
2		2483.500	48.72	-3.38	45.34	74.00	-28.66	peak		

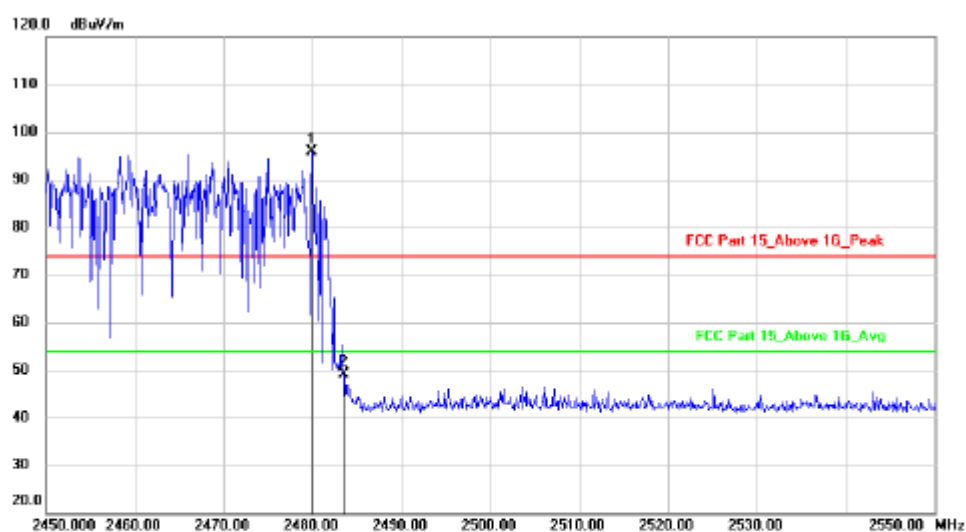
hopping-on

Polarization: Horizontal

Test Mode: $\pi/4$ DQPSK-High

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	2479.900	103.07	-3.38	99.69	74.00	25.69	peak		
2		2483.500	56.90	-3.38	53.52	74.00	-20.48	peak		

hopping-off

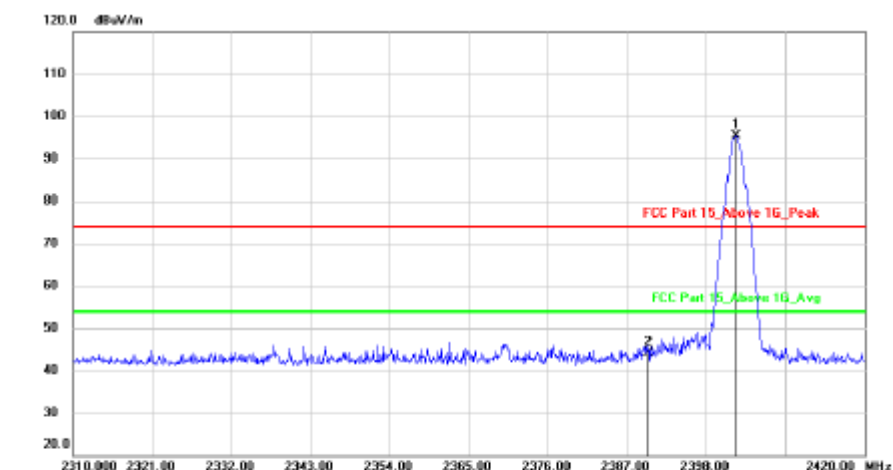


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	2479.900	99.14	-3.38	95.76	74.00	21.76	peak		
2		2483.500	52.41	-3.38	49.03	74.00	-24.97	peak		

hopping-on

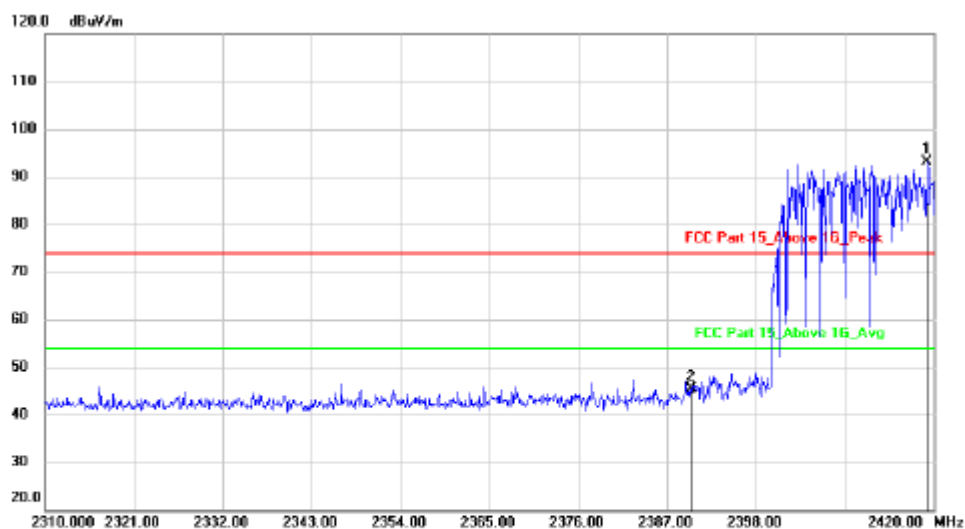
Polarization: Vertical

Test Mode: 8DPSK-Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2402.180	98.77	-3.41	95.36	74.00	21.36	peak		
2		2390.000	47.50	-3.40	44.10	74.00	-29.90	peak		

hopping-off

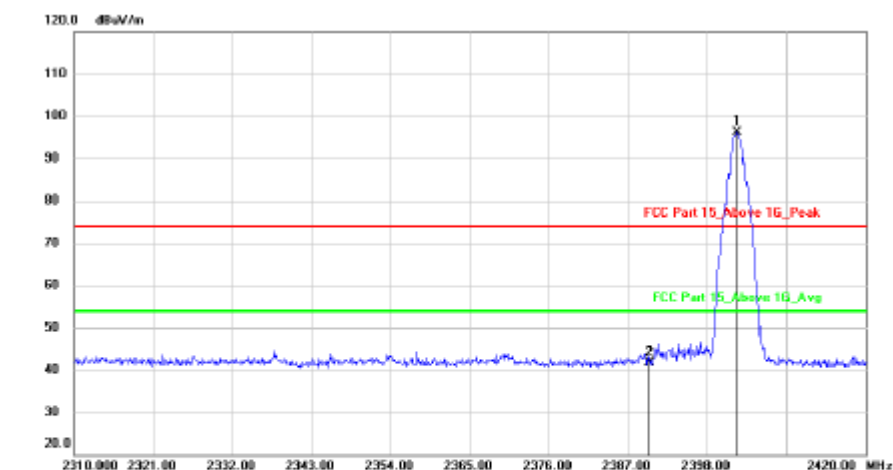


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2419.120	96.65	-3.41	93.24	74.00	19.24	peak		
2		2390.000	48.87	-3.40	45.47	74.00	-28.53	peak		

hopping-on

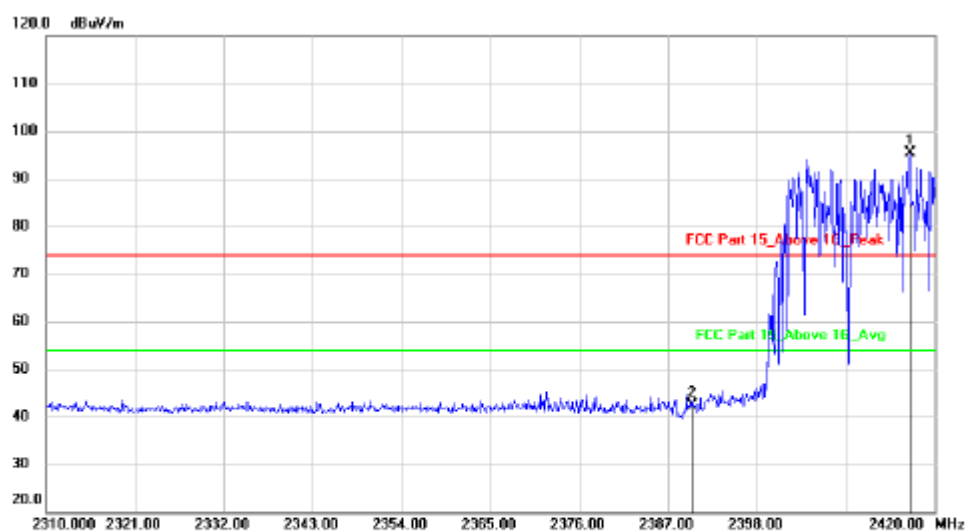
Polarization: Horizontal

Test Mode: 8DPSK-Low



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	2402.180	99.58	-3.41	96.17	74.00	22.17	peak		
2		2390.000	44.92	-3.40	41.52	74.00	-32.48	peak		

hopping-off

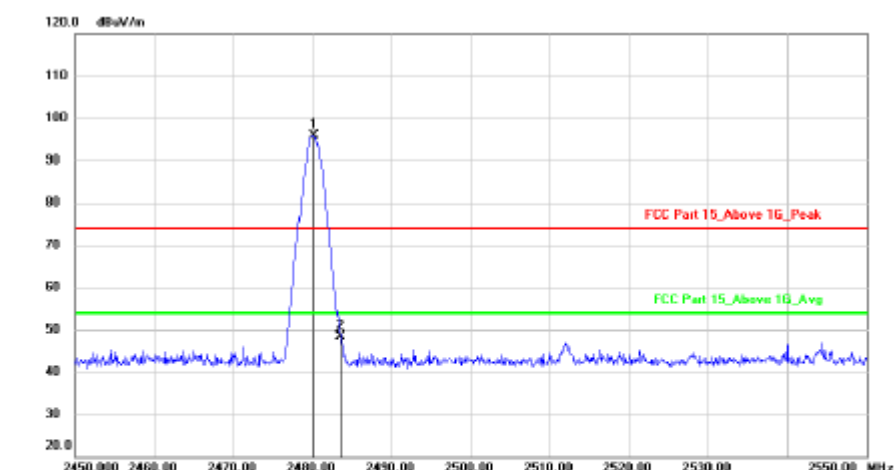


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	2416.920	98.83	-3.41	95.42	74.00	21.42	peak		
2		2390.000	45.85	-3.40	42.45	74.00	-31.55	peak		

hopping-on

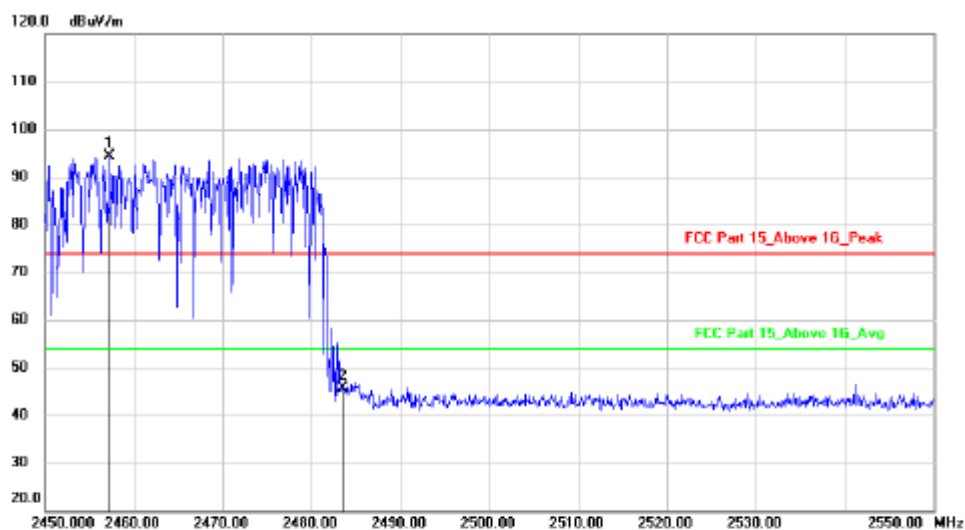
Polarization: Vertical

Test Mode: 8DPSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2480.200	99.19	-3.38	95.81	74.00	21.81	peak	
2		2483.500	51.75	-3.38	48.37	74.00	-25.63	peak	

hopping-off

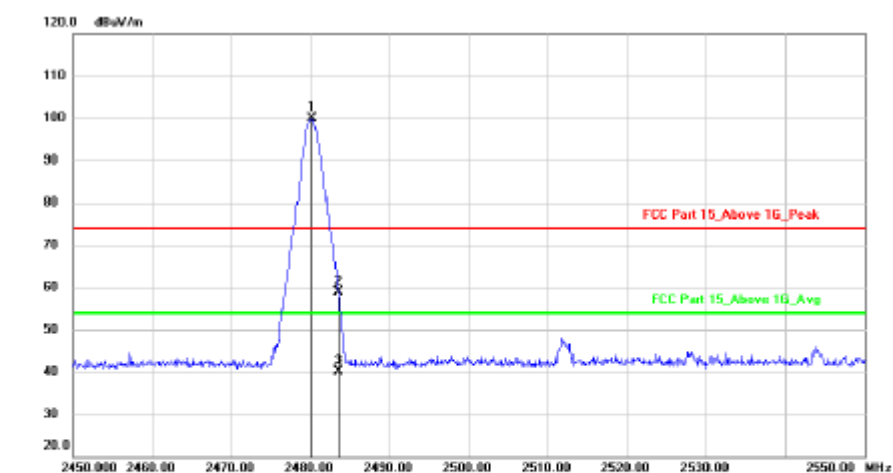


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2457.300	97.71	-3.39	94.32	74.00	20.32	peak	
2		2483.500	49.10	-3.38	45.72	74.00	-28.28	peak	

hopping-on

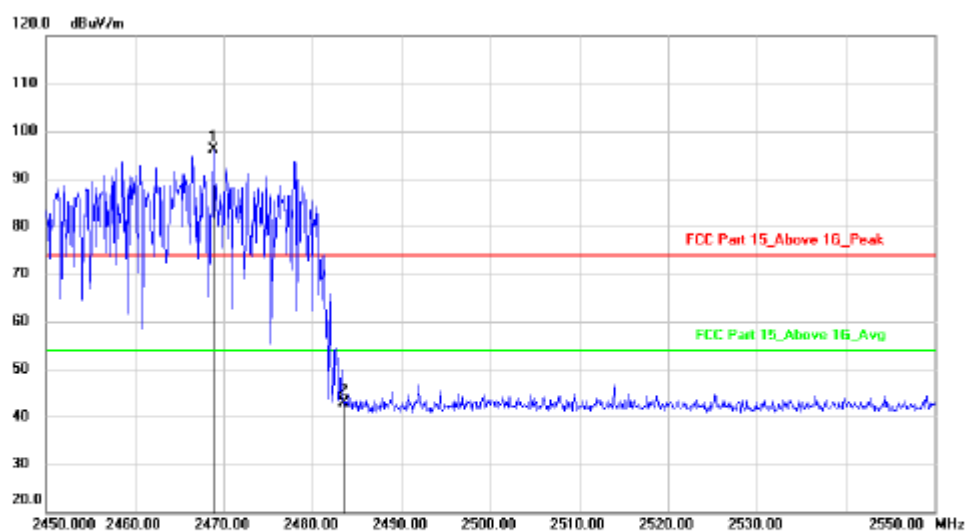
Polarization: Horizontal

Test Mode: 8DPSK-High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2480.200	103.18	-3.38	99.80	74.00	25.80	peak		
2		2483.500	62.22	-3.38	58.84	74.00	-15.16	peak		
3		2483.500	43.39	-3.38	40.01	54.00	-13.99	AVG		

hopping-off



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	2468.800	99.56	-3.39	96.17	74.00	22.17	peak		
2		2483.500	46.16	-3.38	42.78	74.00	-31.22	peak		

hopping-on

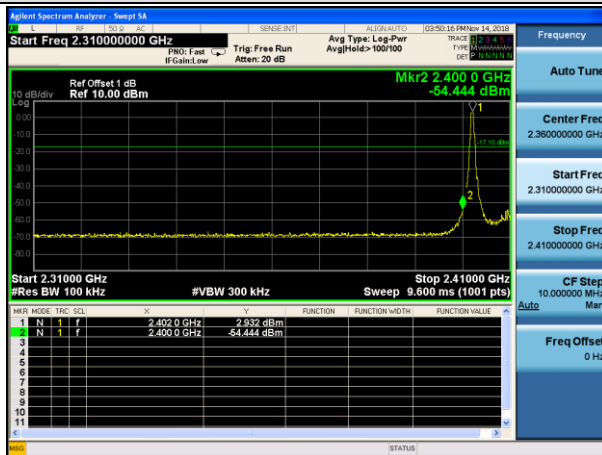
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

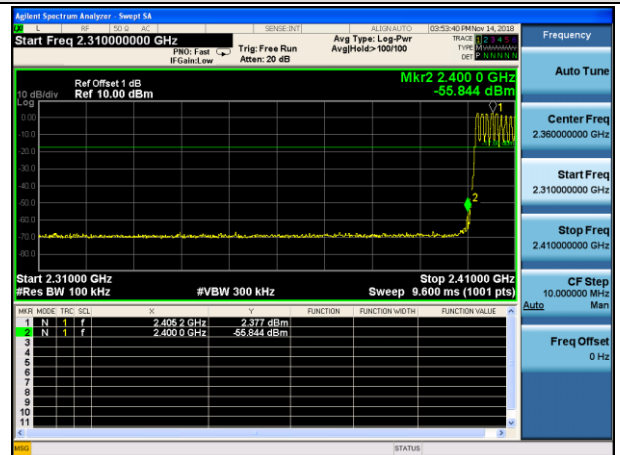
Conducted Method

GFSK Mode:

Test channel:	Lowest channel
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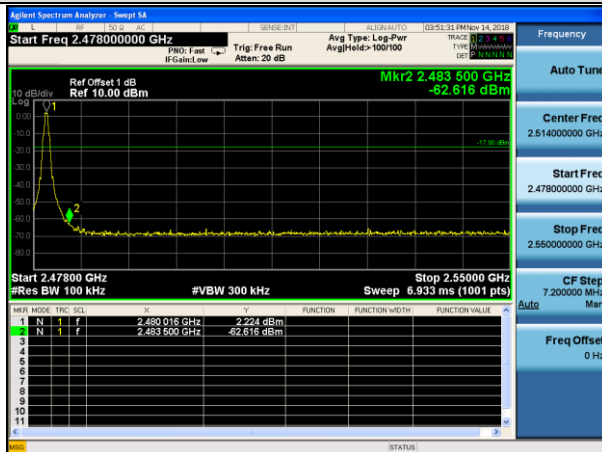


No-hopping mode

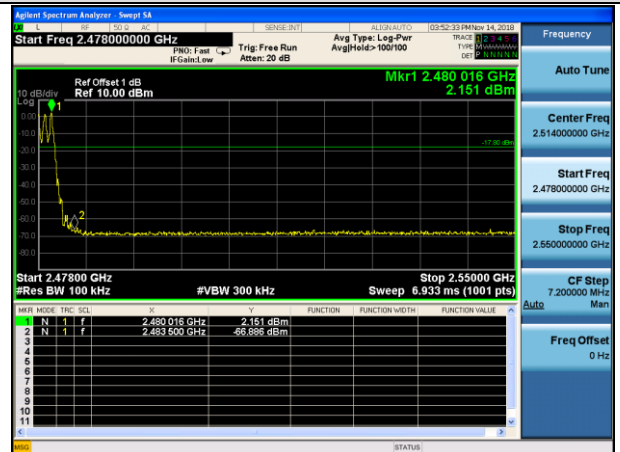


Hopping mode

Test channel:	Highest channel
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No-hopping mode

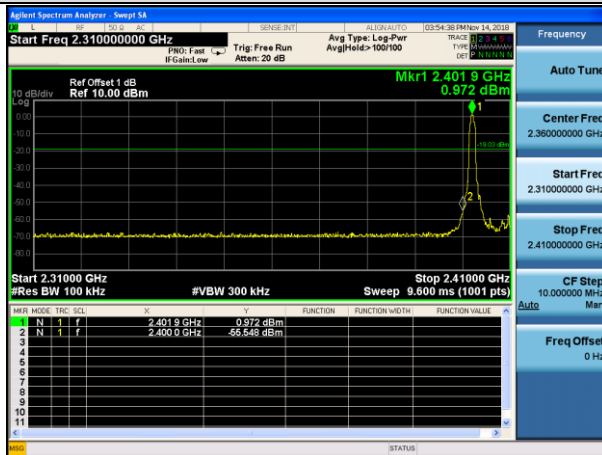


Hopping mode

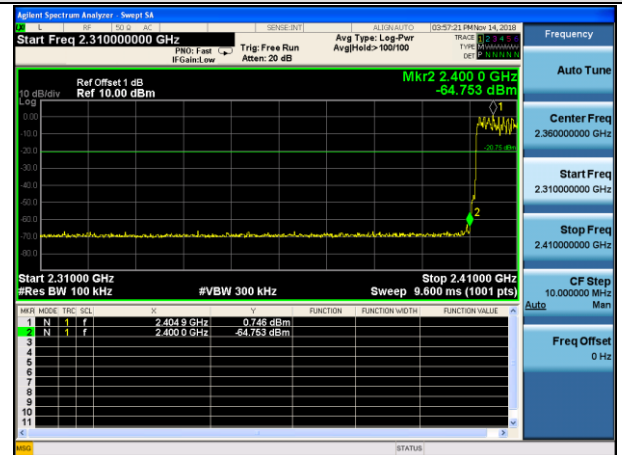
Pi/4QPSK Mode:

Test channel:

Lowest channel



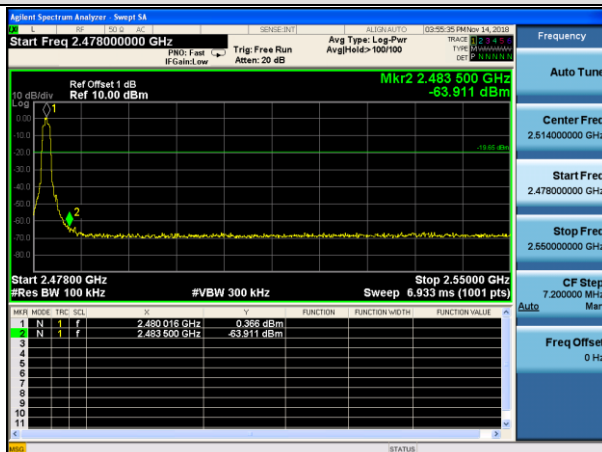
No-hopping mode



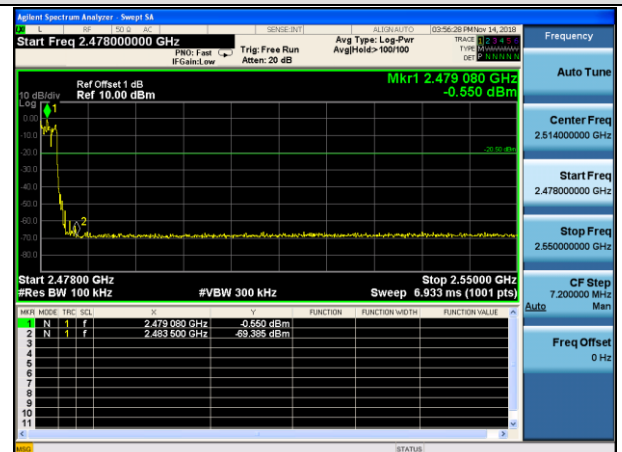
Hopping mode

Test channel:

Highest channel



No-hopping mode

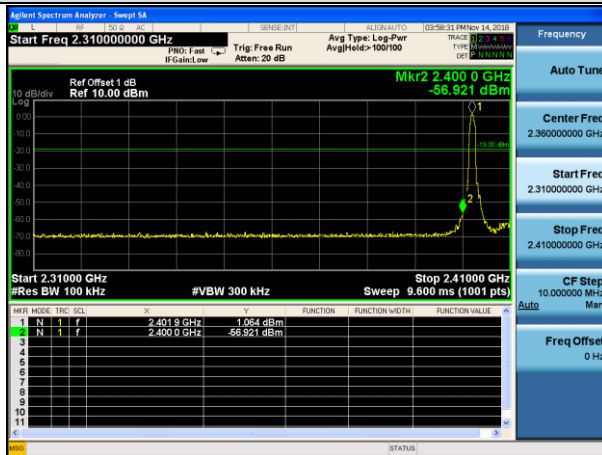


Hopping mode

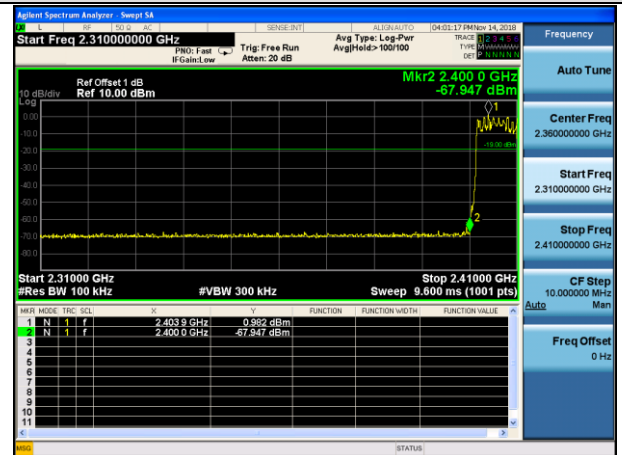
8DPSK Mode:

Test channel:

Lowest channel



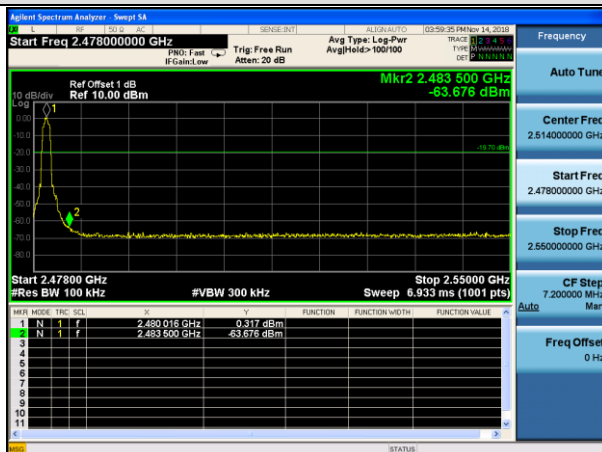
No-hopping mode



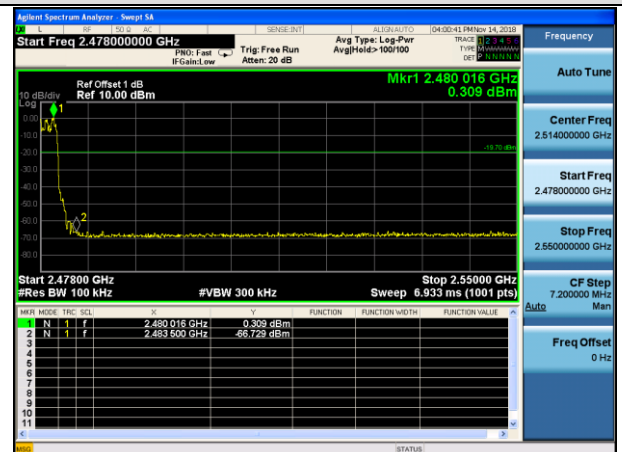
Hopping mode

Test channel:

Highest channel



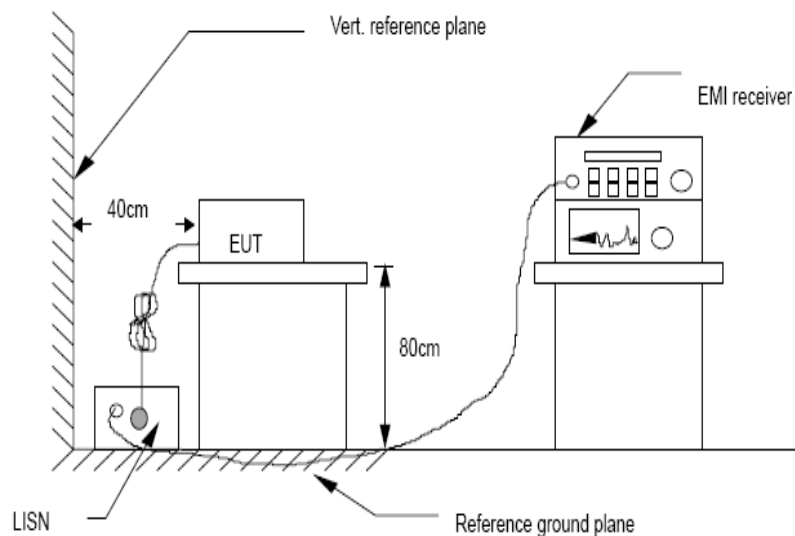
No-hopping mode



Hopping mode

10. POWER LINE CONDUCTED EMISSIONS

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.

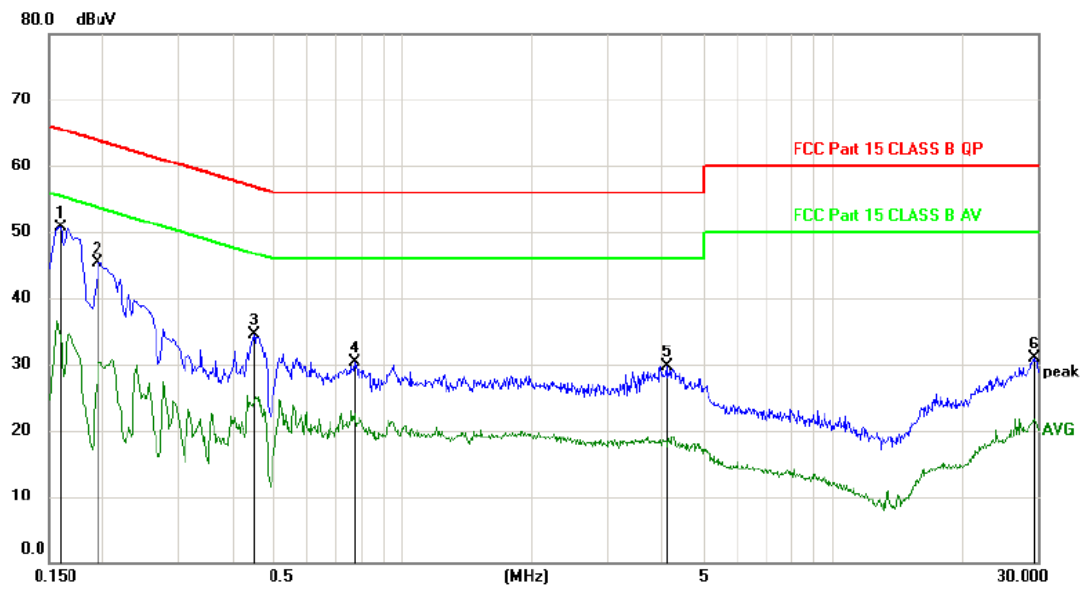
(5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

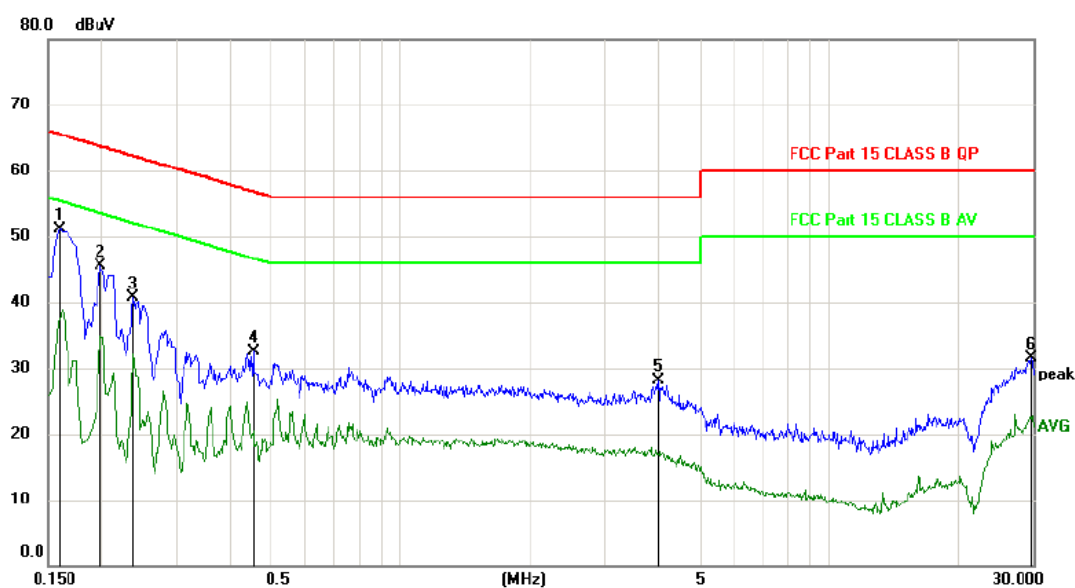
Line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1590	50.64	0.13	50.77	65.52	-14.75	peak	
2		0.1949	45.21	0.13	45.34	63.83	-18.49	peak	
3		0.4500	34.35	0.13	34.48	56.88	-22.40	peak	
4		0.7710	30.14	0.14	30.28	56.00	-25.72	peak	
5		4.0949	29.49	0.21	29.70	56.00	-26.30	peak	
6		29.4630	29.69	1.14	30.83	60.00	-29.17	peak	

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

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:

No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Margin dB	Detector	Comment
1	*	0.1590	51.01	0.13	51.14	65.52	-14.38	peak	
2		0.1980	45.46	0.13	45.59	63.69	-18.10	peak	
3		0.2370	40.49	0.13	40.62	62.20	-21.58	peak	
4		0.4530	32.44	0.13	32.57	56.82	-24.25	peak	
5		3.9930	27.90	0.20	28.10	56.00	-27.90	peak	
6		29.6970	30.33	1.16	31.49	60.00	-28.51	peak	

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

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of 8-DPSK mode, Channel 2441MHz (AC 120V/ 60Hz) was listed in this report.

11.FREQUENCY STABILITY

11.1.Test limit

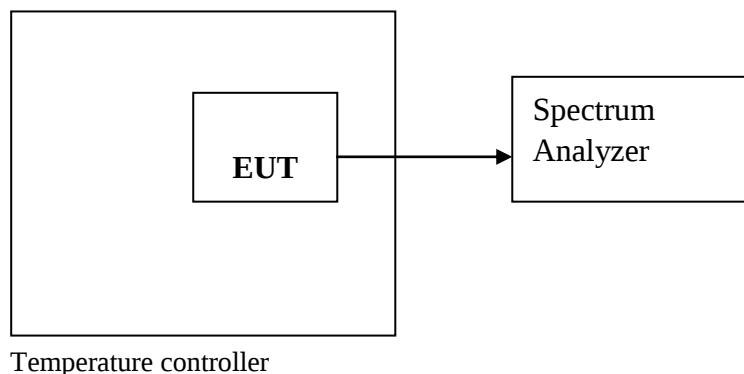
Please refer section RSS-Gen.

Regulation RSS-Gen If the frequency stability of the licence-exempt radio apparatus is not specified in the applicable RSS, the fundamental emissions of the radio apparatus should be kept within at least the central 80% of its permitted operating frequency band in order to minimize the possibility of out-of-band operation. In addition, its occupied bandwidth shall be entirely outside the restricted bands and the prohibited TV bands of 54-72 MHz, 76-88 MHz, 174-216 MHz, and 470-602 MHz, unless otherwise indicated.

11.2.Test Procedure

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

11.3.Test Setup



11.4.Test Results

PASS.

Detailed information please see the following page.

Assigned Frequency(MHz): 2402MHz(GFSK)				
Voltage	Temperature	Measured Frequency (MHz)	Frequency stability(MHz)	Limit(MHz)
Low DC 6.1V	+20°C	2402.008	0.008	±0.020
Normal DC 7.2V	-20°C	2401.990	-0.010	±0.020
	-10°C	2401.993	-0.007	±0.020
	0°C	2401.992	-0.008	±0.020
	+10°C	2402.008	0.008	±0.020
	+20°C	2402.005	0.005	±0.020
	+30°C	2402.006	0.006	±0.020
	+40°C	2401.993	-0.007	±0.020
	+50°C	2401.989	-0.011	±0.020
High DC 8.3V	+20°C	2401.992	-0.008	±0.020

12.ANTENNA REQUIREMENTS

12.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203 and RSS-GEN, 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.

12.2.Result

The EUT antenna is internal antenna. It complies with the standard requirement.

-----THE END OF REPORT-----