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Report No.: GTI20140444F-4

Page 1 of 62

TEST REPORT

Product Name: LTE mobile phone

Trademark: NUU

Model/Type reference: X1

Listed Model(s): X1 Series

Model difference: X1 other series model No. are all the same with main model
X1, except for body color, RAM and LOGO to meet different
customer requirements

FCC ID.....: 2ADINNUUX1

Test Standards: **FCC Part 15.247: Operation within the bands 902-928
MHz, 2400-2483.5 MHz and 5725-5850 MHz**

Applicant: Sun Cupid Technology (HK) Ltd.

Address of applicant: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,
Kowloon, Hong Kong

Date of Receipt: Nov.02, 2014

Date of Test Date.....: Nov.02, 2014 - Nov.28, 2014

Data of issue.: Nov.28, 2014

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified above

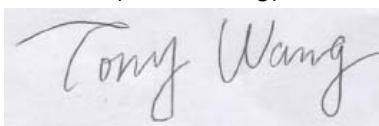
GENERAL DESCRIPTION OF EUT	
Equipment:	LTE Mobile Phone
Model Name:	X1
Manufacturer:	Sun Cupid Technology (Shenzhen) Ltd.
Manufacturer Address:	10A, No.3 Bldg, China Academy of Sci & Tech Development, No.1 High-Tech South St. Nanshan district, Shenzhen, China.
Power Source:	DC 3.8V from Li-ion battery
Power Rating:	Input: 100-240VAC, 50/60Hz 0.2A MAX Output: 5V==1.0A

Compiled By:



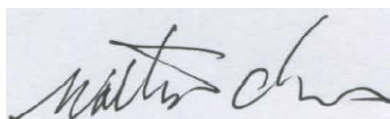
(Allen Wang)

Reviewed By:



(Tony Wang)

Approved By:



(Walter Chen)

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Table of Contents

Page

1. SUMMARY.....	4
1.1. TEST STANDARDS.....	4
1.2. TEST DESCRIPTION.....	4
1.3. TEST FACILITY	5
1.4. MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION.....	6
2.1. ENVIRONMENTAL CONDITIONS	6
2.2. GENERAL DESCRIPTION OF EUT	6
2.3. DESCRIPTION OF TEST MODES	7
2.4. MEASUREMENT INSTRUMENTS LIST	7
3. TEST CONDITIONS AND RESULTS	9
3.1. CONDUCTED EMISSION (AC MAIN)	9
3.2. RADIATED EMISSION	12
3.3. MAXIMUM PEAK OUTPUT POWER	17
3.4. 20dB BANDWIDTH.....	21
3.5. BAND EDGE	25
3.6. FREQUENCY SEPARATION	41
3.7. NUMBER OF HOPPING FREQUENCY.....	43
3.8. TIME OF OCCUPANCY (DWELL TIME).....	45
3.9. SPURIOUS RF CONDUCTED EMISSION.....	49
3.10. PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	53
3.11. ANTENNA REQUIREMENT.....	60
4. EUT TEST PHOTO	61
5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL	61

1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10-2009](#): American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(1)(i)	20dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(b)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of hopping frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.109/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Remark: The measurement uncertainty is not included in the test result.

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen General Testing & Inspection Technology Co., Ltd.

Add: 1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9783A

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

FCC-Registration No.: 214666

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

1.4. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements and is documented in the Shenzhen General Testing & Inspection Technology Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for General Testing & Inspection laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

2. GENERAL INFORMATION

2.1. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

2.2. General Description of EUT

Product Name:	LTE Mobile Phone
Model/Type reference:	X1
Power supply:	DC 3.8V from Li-ion battery
Adapter information:	Model: HNFG050100UU Input: 100-240VAC, 50/60Hz 0.2A MAX Output: 5V---1.0A
Hardware version:	UALC04 VER E
Software version:	X1-US-01
Bluetooth 3.0	
Version:	Supported BT3.0
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PIFA Antenna
Antenna gain:	1.60dBi

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.3. Description of Test Modes

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT. Channel 00/39/78 was selected to test.

Operation Frequency :

Channel	Frequency (MHz)
00	2402
2	2403
:	:
38	2440
39	2441
40	2442
:	:
77	2479
78	2480

2.4. Measurement Instruments List

Maximum Peak Output Power / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission /Hoping Require/ 20dB bandwidth					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU	100105	Dec. 27,2014

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrate until
1	LISN	R&S	ENV216	101112	Dec. 26, 2014
2	LISN	R&S	ENV216	101113	Dec. 26, 2014
3	EMI Test Receiver	R&S	ESCI	100920	Dec. 26, 2014
4	Cable	Schwarzbeck	Cable001	--	Dec. 26, 2014

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100967	Dec 27,2014
2	High pass filter	Compliance Direction systems	BSU-6	34202	Oct 25,2015
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec 27,2014
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec 27,2014
5	Loop Antenna	LAPLAC	RF300	9138	Nov 15,2015
6	Spectrum Analyzer	HP	8563E	02052	Dec 27,2014
7	Horn Antenna	Schwarzbeck	BBHA 9120D	648	Dec 27,2014

8	Pre-Amplifier	HP	8447D	1937A03050	Dec 26,2014
9	Pre-Amplifier	EMCI	EMC05183 5	980075	Dec 27,2014
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable	Schwarzbeck	Cable002	--	Dec. 26,2014
13	Cable	Schwarzbeck	Cable003	--	Dec. 26,2014

Note: 1. The Cal.Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emission (AC Main)

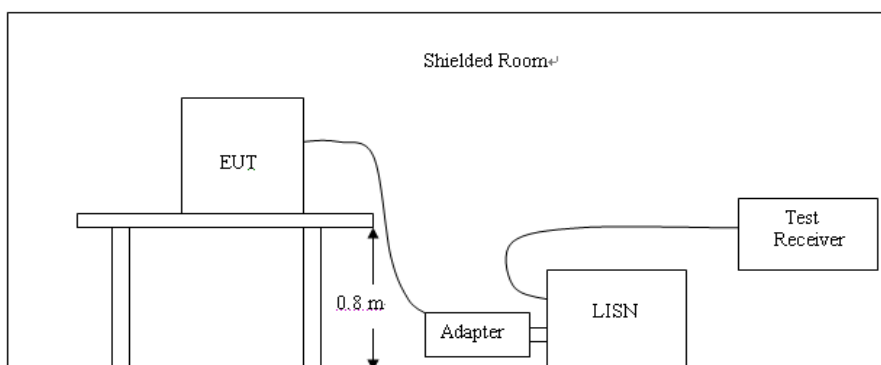
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2009.
2. Support equipment, if needed, was placed as per ANSI C63.10-2009
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2009
4. The EUT received DC5V power from the adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

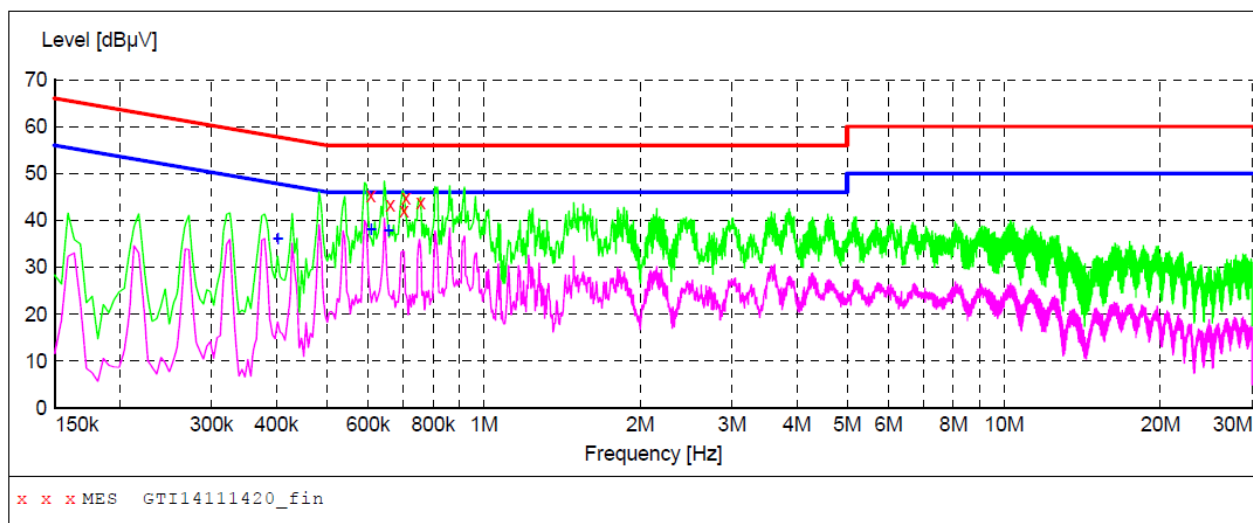
TEST RESULTS

LINE

L

SCAN TABLE: "Voltage (9K-30M) FIN1"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "GTI14111420_fin"

11/14/2014 2:02PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.608000	45.20	9.9	56	10.8	QP	L1	GND
0.662000	43.20	10.0	56	12.8	QP	L1	GND
0.704000	42.10	10.0	56	13.9	QP	L1	GND
0.710000	44.70	10.0	56	11.3	QP	L1	GND
0.758000	43.90	10.0	56	12.1	QP	L1	GND

MEASUREMENT RESULT: "GTI14111420_fin2"

11/14/2014 2:02PM

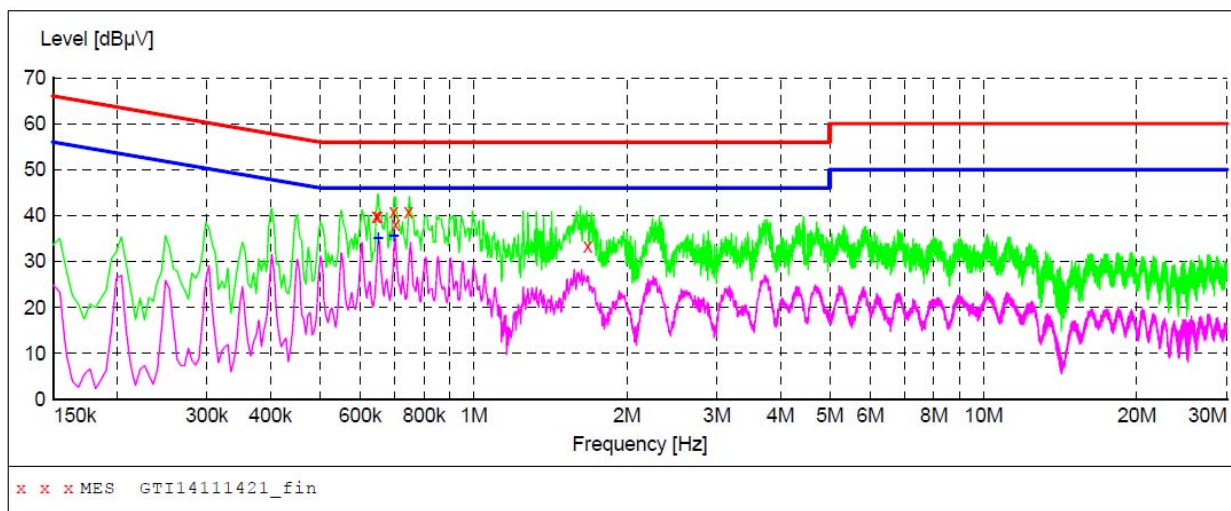
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.402000	36.00	9.9	48	11.8	AV	L1	GND
0.608000	38.10	9.9	46	7.9	AV	L1	GND
0.656000	37.80	10.0	46	8.2	AV	L1	GND

LINE

N

SCAN TABLE: "Voltage (9K-30M) FIN1"

Short Description: 150K-30M Voltage


MEASUREMENT RESULT: "GTI14111421_fin"

11/14/2014 2:07PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.644000	39.90	10.0	56	16.1	QP	N	GND
0.650000	39.80	10.0	56	16.2	QP	N	GND
0.698000	40.90	10.0	56	15.1	QP	N	GND
0.704000	38.20	10.0	56	17.8	QP	N	GND
0.746000	40.80	10.0	56	15.2	QP	N	GND
1.676000	33.40	10.3	56	22.6	QP	N	GND

MEASUREMENT RESULT: "GTI14111421_fin2"

11/14/2014 2:07PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.650000	35.00	10.0	46	11.0	AV	N	GND
0.698000	35.60	10.0	46	10.4	AV	N	GND

3.2. Radiated Emission

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The frequency spectrum above 1 GHz for Transmitter was investigated. All emission not reported are much lower than the prescribed limits. Set the RBW=1MHz, VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBuV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

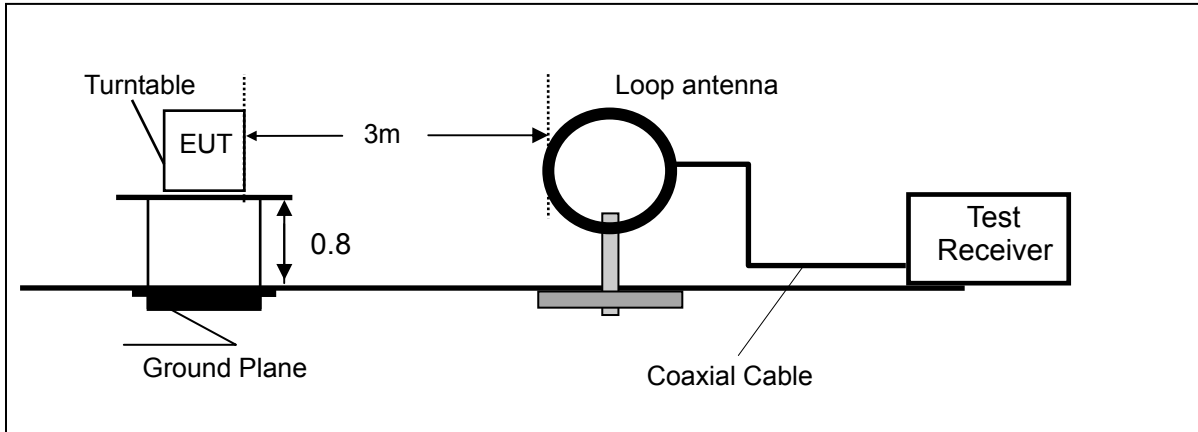
For example

Frequency (MHz)	FS (dBμV/m)	RA (dBμV/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
150.00	40	58.1	12.2	1.6	31.90	-18.1

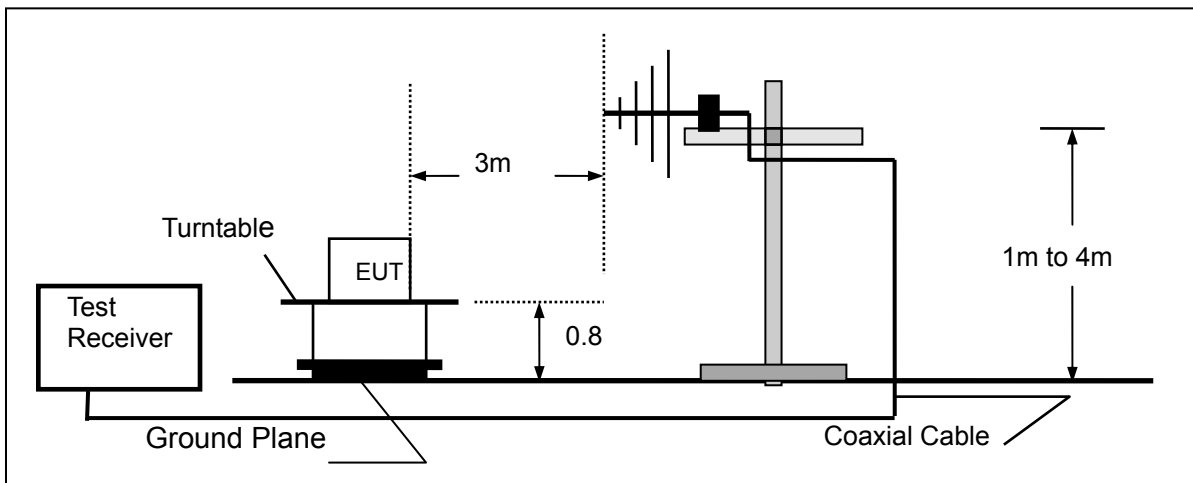
$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

Test Configuration

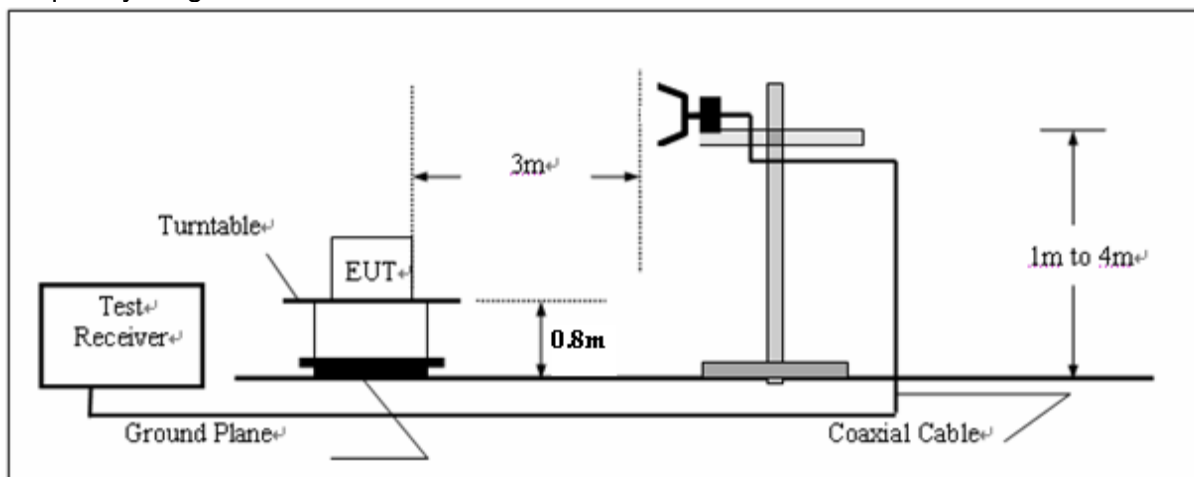
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



Test Results

Remark: We measured Radiated Emission at GFSK, $\pi/4$ DQPSK and 8DPSK mode from 9 KHz to 25GHz and recorded worst case at GFSK mode.

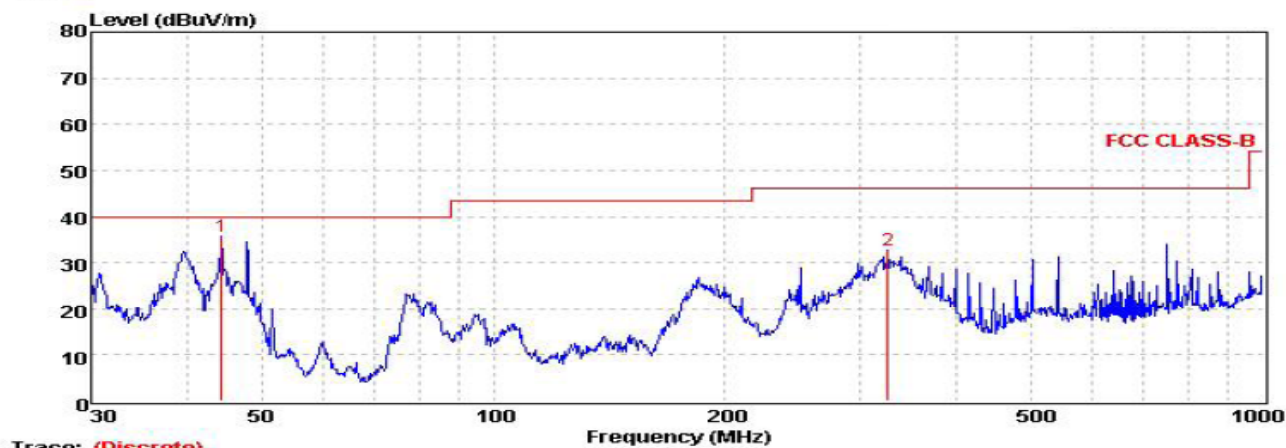
For 9 KHz-30MHz

Frequency (MHz)	Corrected Reading (dBuV/m)@3m	FCC Limit (dBuV/m) @3m	Margin (dB)	Detector	Result
0.39	47.36	95.78	48.42	QP	PASS
1.63	54.55	63.36	8.81	QP	PASS
15.47	59.47	69.54	10.07	QP	PASS
25.66	42.69	69.54	26.85	QP	PASS

For 30MHz-1GHz

Horizontal

Data: 4

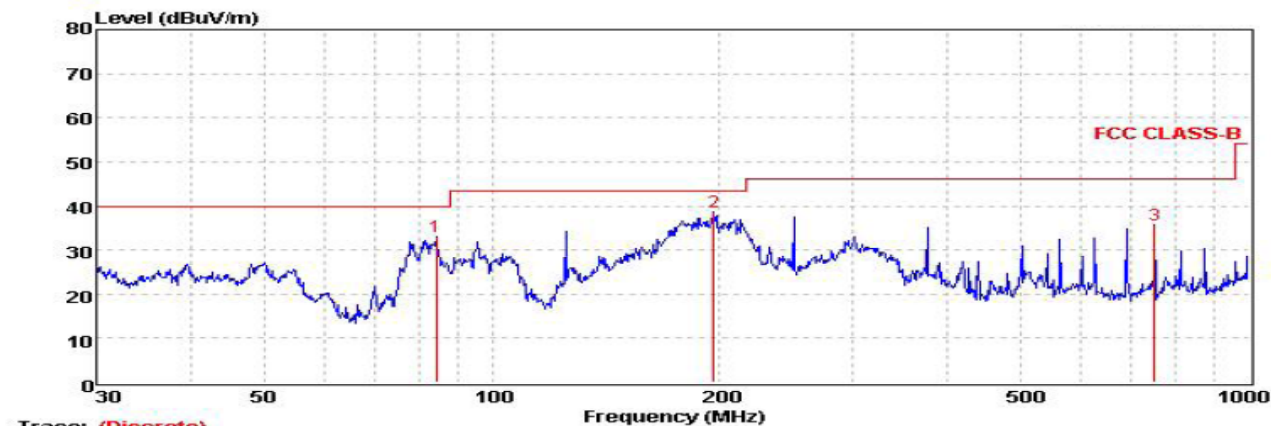


Trace: (Discrete)

Mark	Frequency MHz	Level dBm	Factor dB	Reading dBm	Limit dB	Margin dB	Polarization	Detector
1	44.28	35.65	-13.78	49.43	40.00	4.35	HORIZONTAL	Peak
2	325.60	32.68	-16.24	48.92	46.00	13.32	HORIZONTAL	Peak

Vertical

Data: 3



Trace: (Discrete)

Mark	Frequency MHz	Level dBm	Factor dB	Reading dBm	Limit dB	Margin dB	Polarization	Detector
1	84.41	33.04	-21.09	54.13	40.00	6.96	VERTICAL	Peak
2	196.51	38.63	-18.16	56.79	43.50	4.87	VERTICAL	Peak
3	750.11	35.73	-8.34	44.07	46.00	10.27	VERTICAL	Peak



For 1GHz to 25GHz

GFSK Mode (above 1GHz)

Frequency(MHz):				2402			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4804.00	59.89	PK	74.00	14.11	1.00 H	100	57.99	31.42	6.98	36.5	1.90
1	4804.00	42.36	AV	54.00	11.64	1.00 H	100	40.46	31.42	6.98	36.5	1.90
2	7206.00	46.78	PK	74.00	27.22	1.00 H	90	36.18	37.03	8.87	35.3	10.60
2	7206.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2402			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4804.00	60.14	PK	74.00	13.86	1.00 V	135	58.24	31.42	6.98	36.5	1.90
1	4804.00	40.33	AV	54.00	13.67	1.00 V	135	38.43	31.42	6.98	36.5	1.90
2	7206.00	48.14	PK	74.00	25.86	1.00 V	124	37.54	37.03	8.87	35.3	10.60
2	7206.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2440			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4882.00	59.47	PK	74.00	14.53	1.00 H	147	57.41	30.98	7.58	36.5	2.06
1	4882.00	43.25	AV	54.00	10.75	1.00 H	147	41.19	30.98	7.58	36.5	2.06
2	7323.00	42.26	PK	74.00	31.74	1.00 H	90	31.34	37.66	8.56	35.3	10.92
2	7323.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2440			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4882.00	60.14	PK	74.00	13.86	1.00 V	114	58.08	30.98	7.58	36.5	2.06
1	4882.00	45.55	AV	54.00	8.45	1.00 V	114	43.49	30.98	7.58	36.5	2.06
2	7323.00	47.54	PK	74.00	26.46	1.00 V	120	36.62	37.66	8.56	35.3	10.92
2	7323.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2480			Polarity:			HORIZONTAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4960.00	59.63	PK	74.00	14.37	1.00 H	135	56.56	31.47	7.80	36.2	3.07
1	4960.00	42.32	AV	54.00	11.68	1.00 H	135	39.25	31.47	7.80	36.2	3.07
2	7340.00	45.41	PK	74.00	28.59	1.00 H	250	33.67	38.32	8.72	35.3	11.74
2	7340.00	--	AV	--	--	--	--	--	--	--	--	--

Frequency(MHz):				2480			Polarity:			VERTICAL		
No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
1	4960.00	59.54	PK	74.00	14.46	1.00 V	180	56.47	31.47	7.80	-36.2	3.07
1	4960.00	39.78	AV	54.00	14.22	1.00 V	180	36.71	31.47	7.80	-36.2	3.07
2	7340.00	46.23	PK	74.00	27.77	1.00 V	125	34.49	38.32	8.72	-35.3	11.74
2	7340.00	--	AV	--	--	--	--	--	--	--	--	--

REMARKS:

1. Emission level (dBUV/m) = Raw Value (dBUV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Limit value - Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

3.3. Maximum Peak Output Power

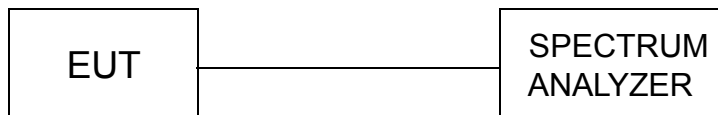
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

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

Test Configuration



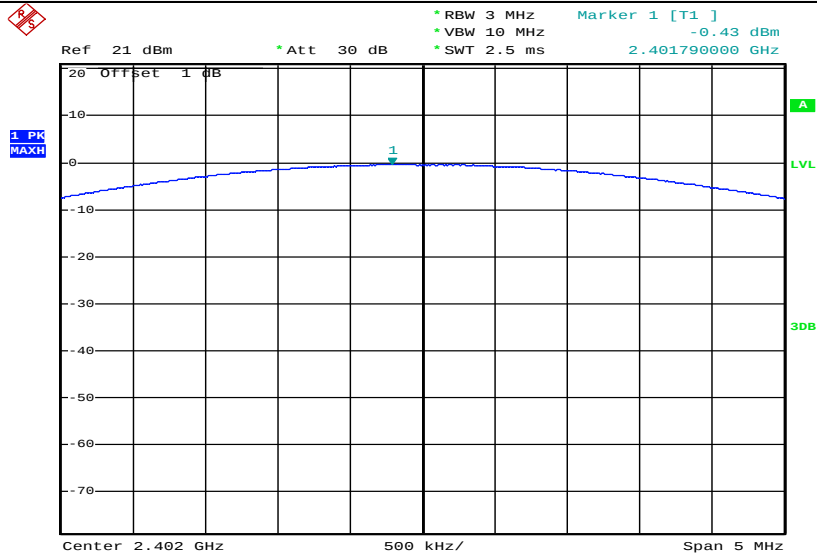
Test Results

Type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	00	-0.43	30.00	Pass
	39	0.22		
	78	0.64		
$\pi/4$ DQPSK	00	-1.62	30.00	Pass
	39	-1.25		
	78	-1.16		
8DPSK	00	-1.34	30.00	Pass
	39	-0.94		
	78	-0.85		

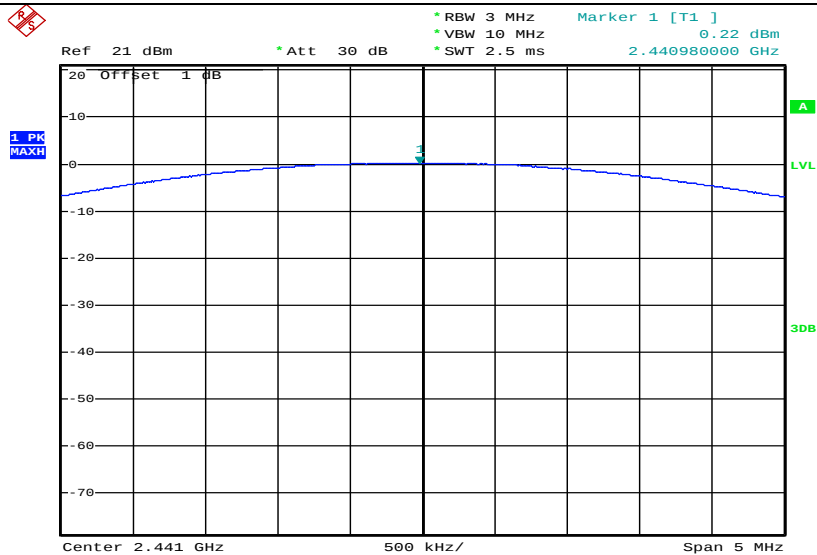
Note: 1.The test results including the cable lose.

Test plot as follows:

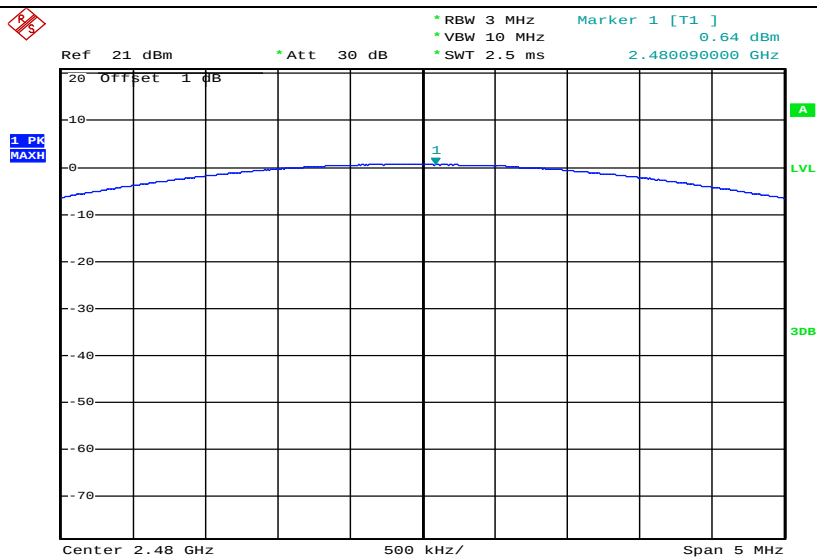
GFSK Modulation



CH00

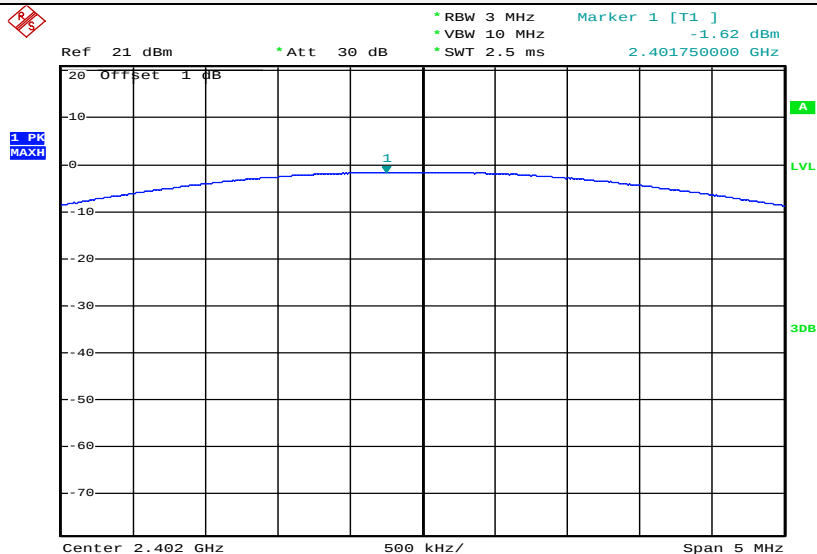


CH39

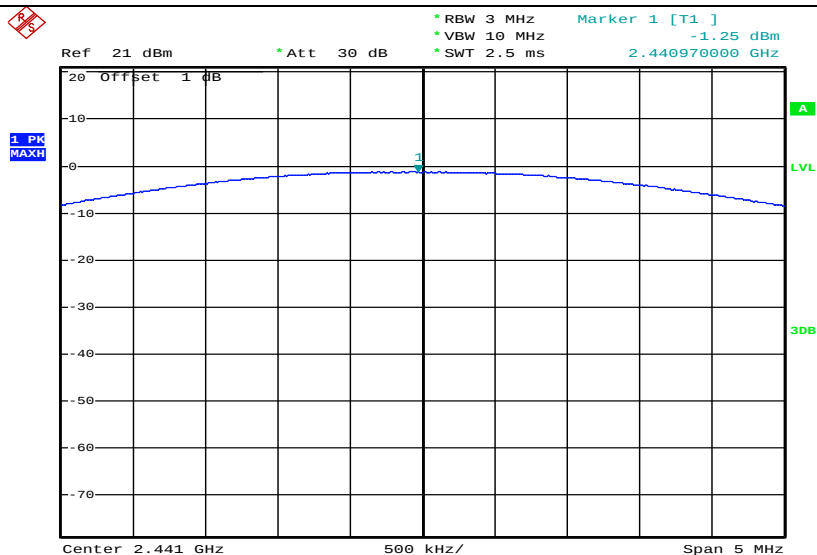


CH78

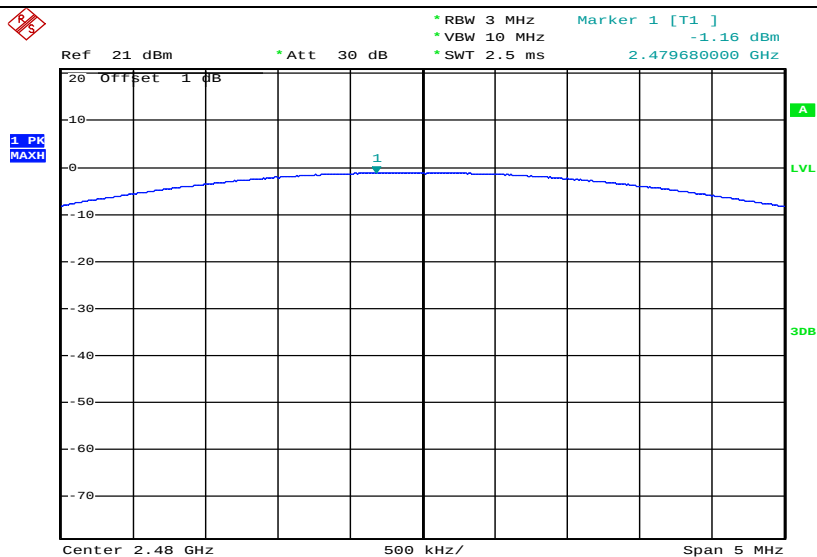
$\pi/4$ DQPSK Modulation



CH00

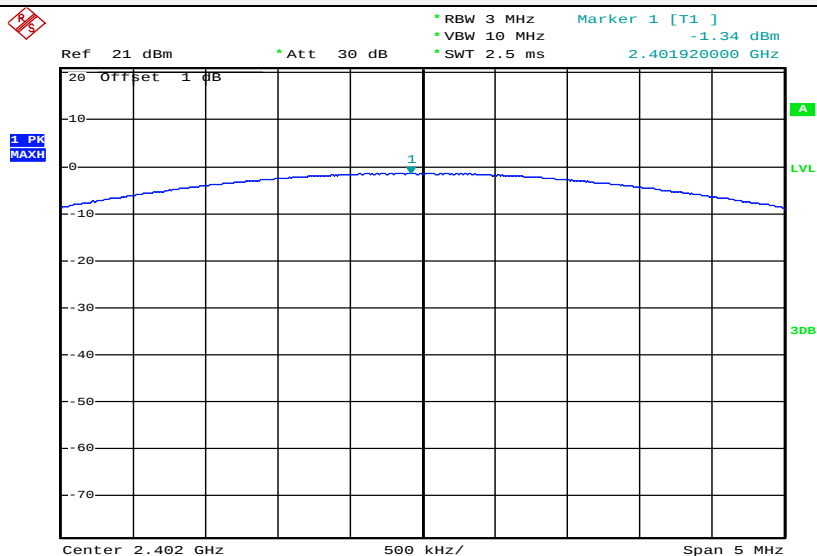


CH39

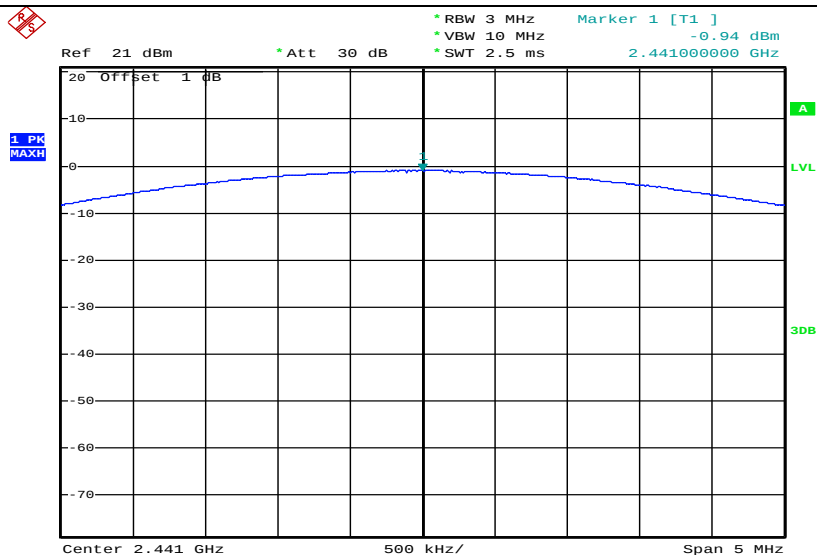


CH78

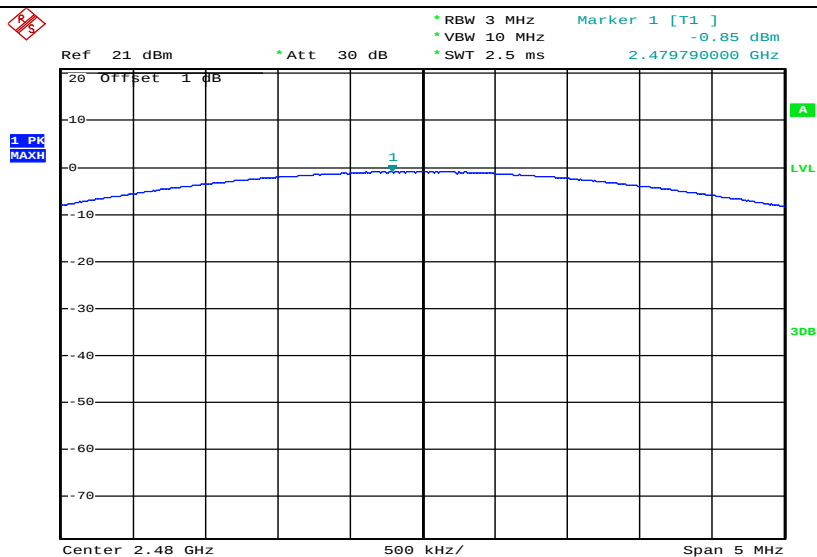
8DPSK Modulation



CH00



CH39



CH78

3.4. 20dB Bandwidth

Limit

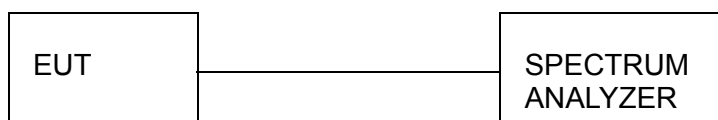
For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Test Configuration

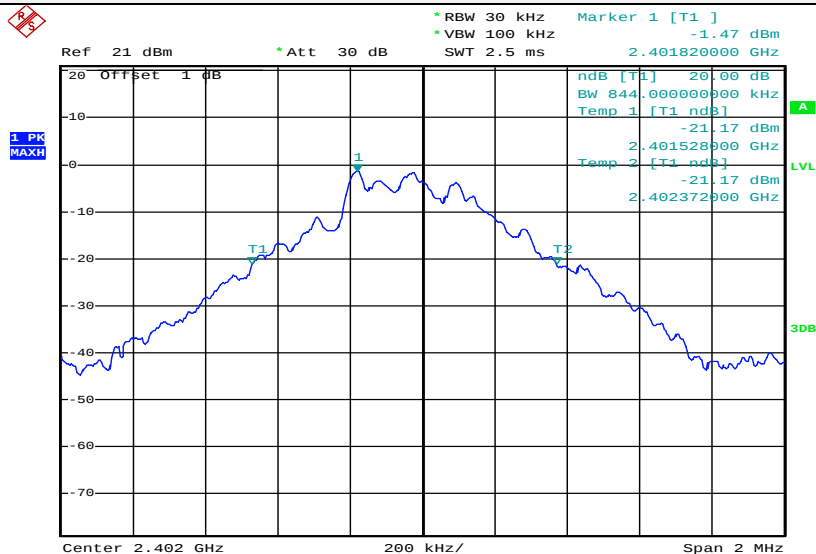


Test Results

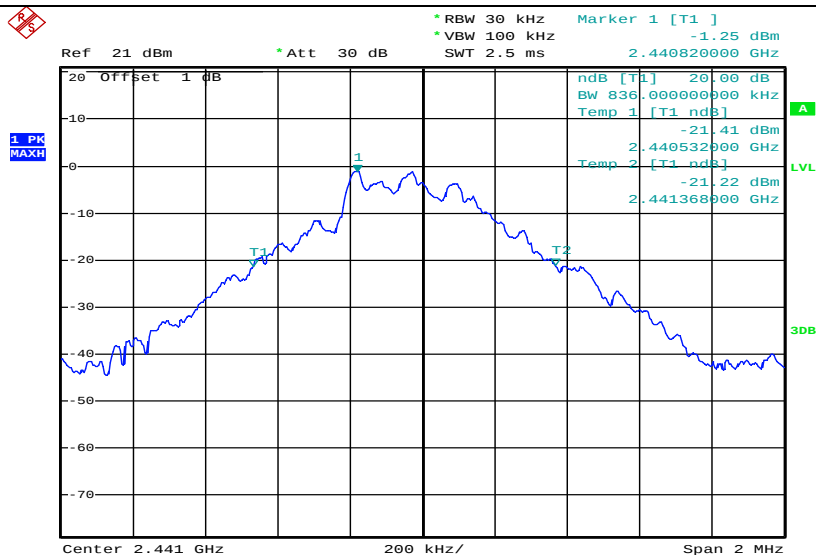
Modulation	Channel	20dB bandwidth (MHz)	Result
GFSK	CH00	0.844	Pass
	CH39	0.836	
	CH78	0.844	
$\pi/4$ DQPSK	CH00	1.216	
	CH39	1.216	
	CH78	1.216	
8DPSK	CH00	1.208	
	CH39	1.208	
	CH78	1.208	

Test plot as follows:

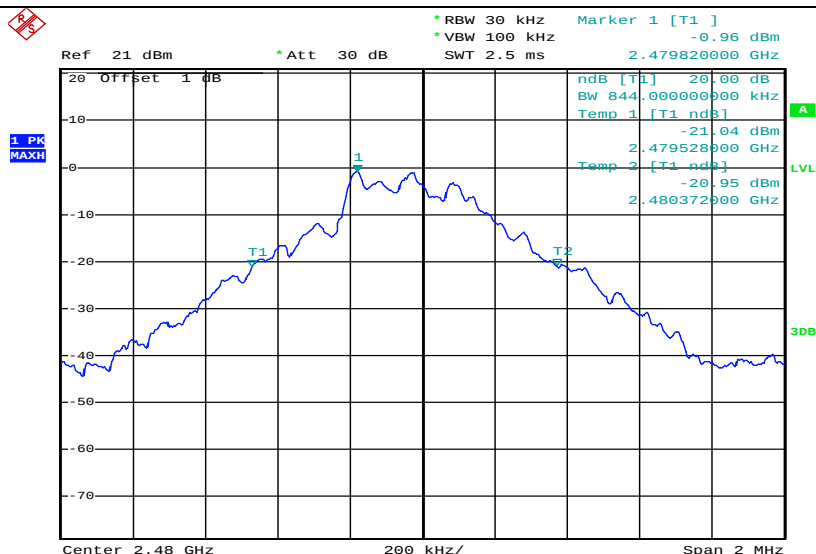
GFSK Modulation



CH00

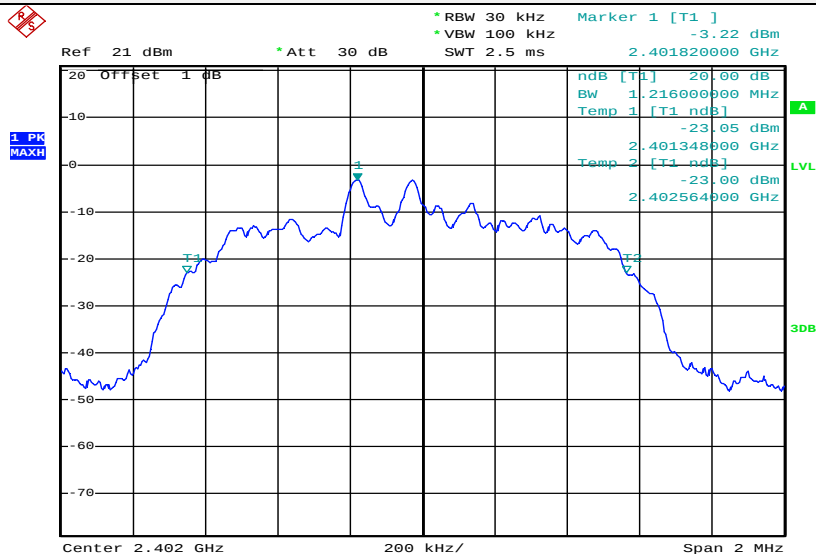


CH39

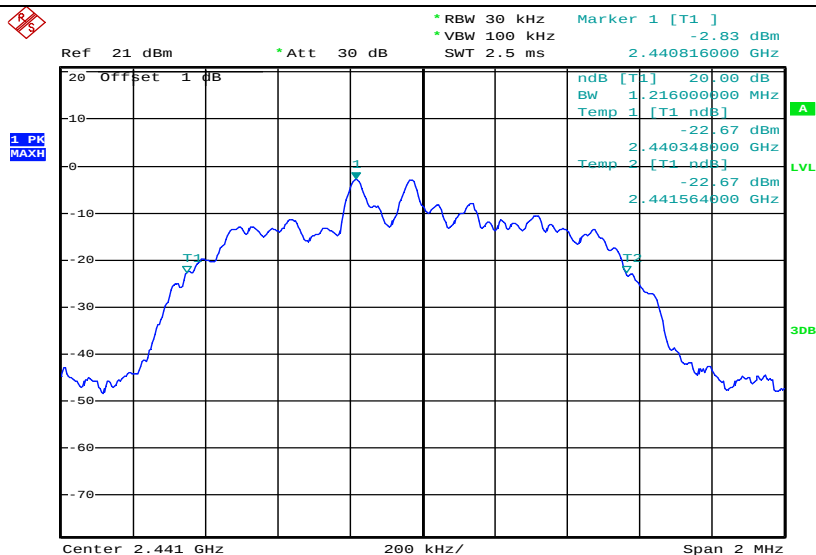


CH78

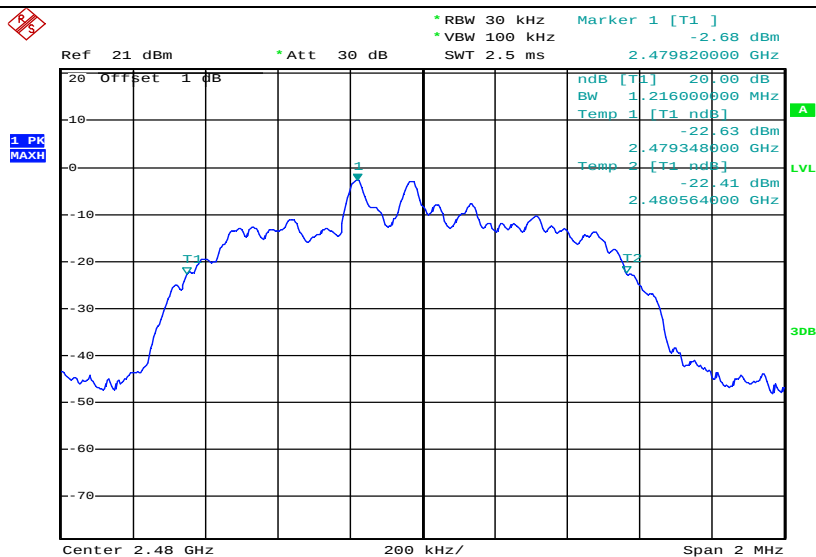
$\pi/4$ DQPSK Modulation



CH00

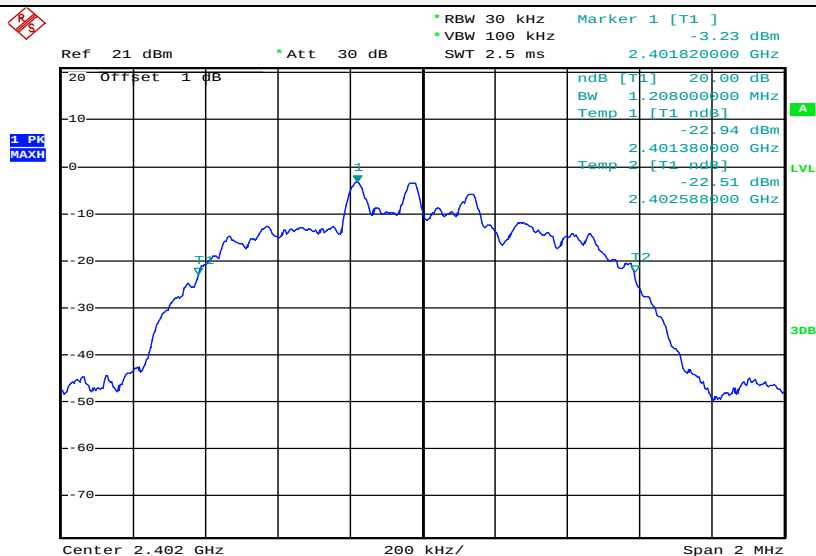


CH39

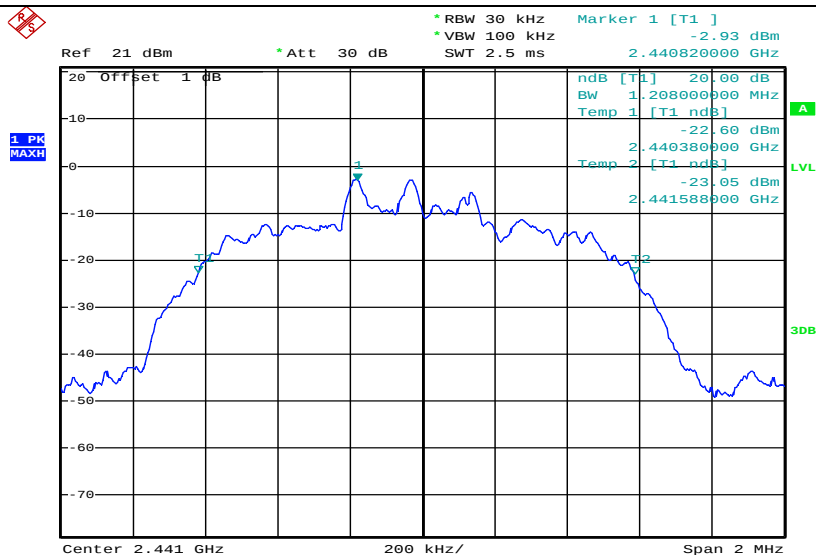


CH78

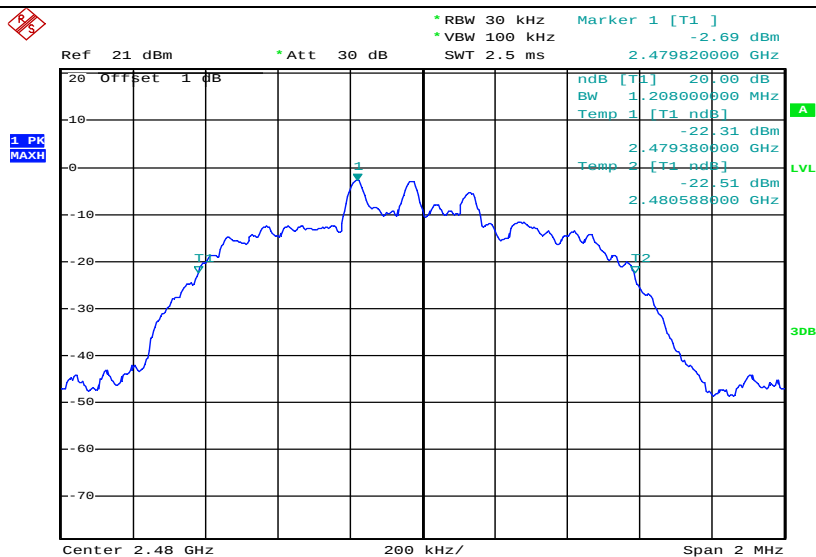
8DPSK Modulation



CH00



CH39



CH78

3.5. Band Edge

Applicable Standard

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. 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)).

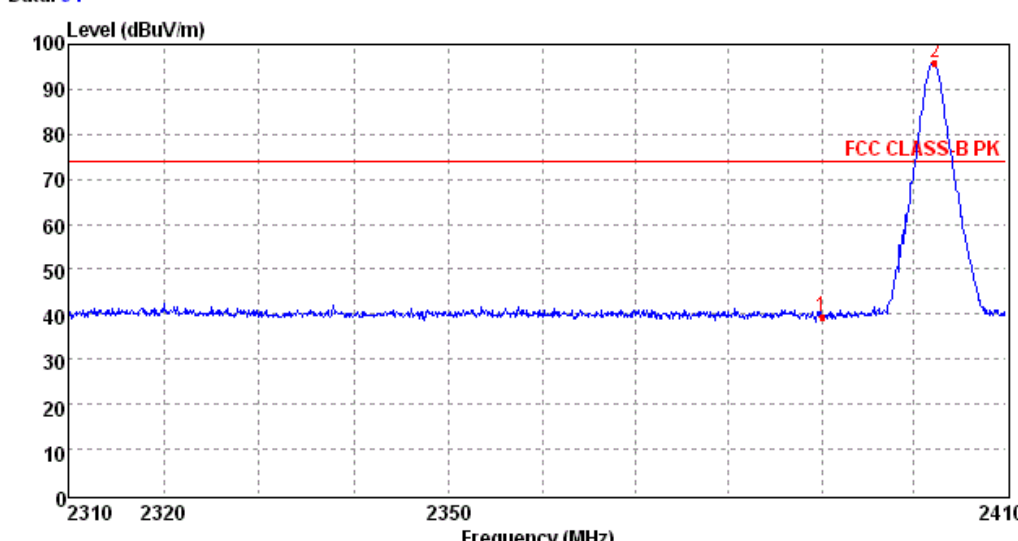
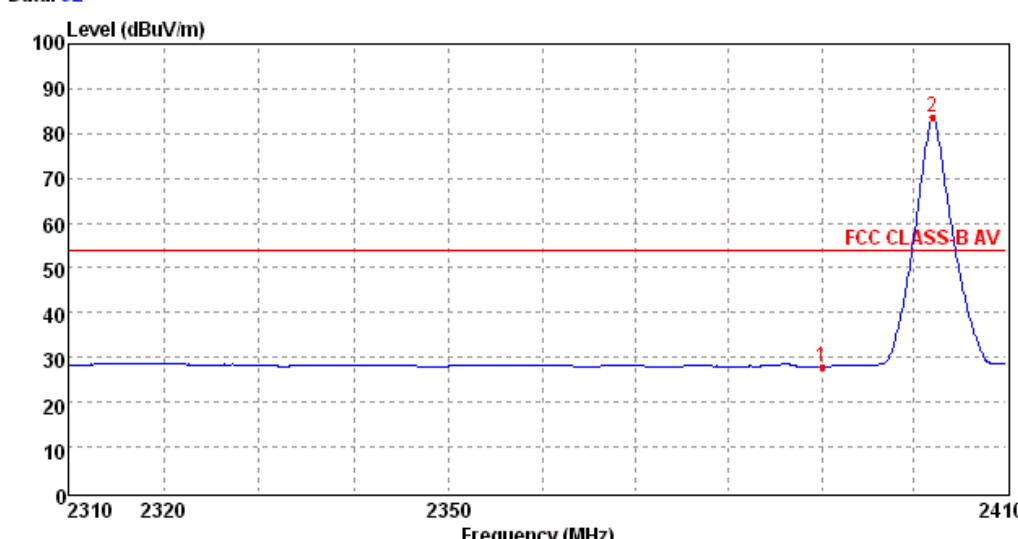
Test Procedure

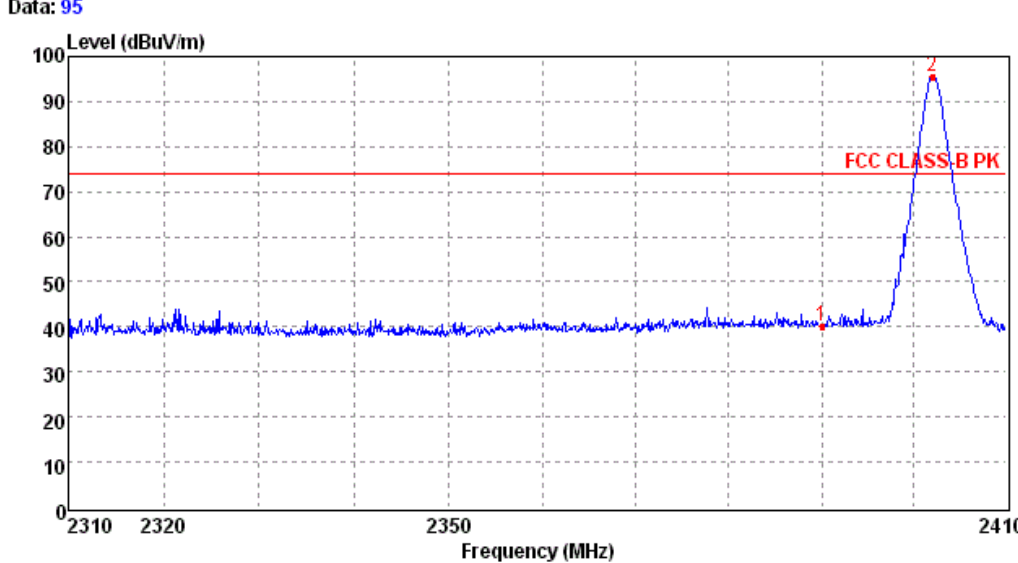
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in 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 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz.
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.

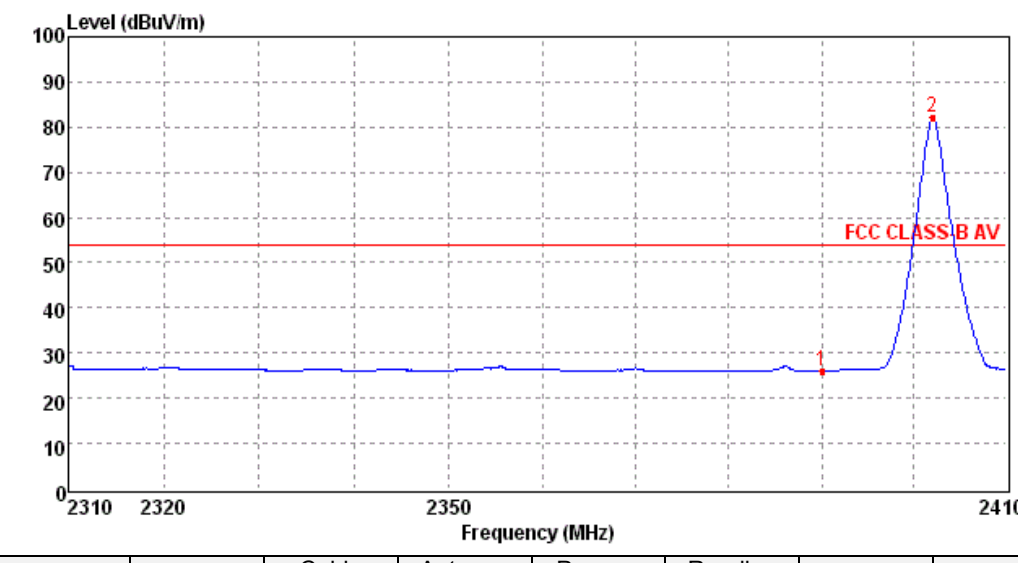
TEST RESULTS

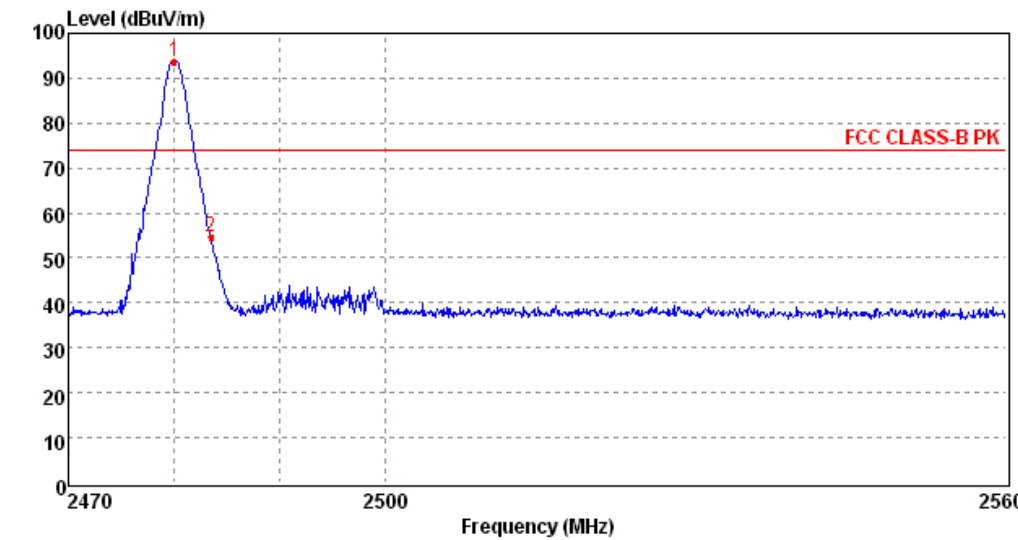
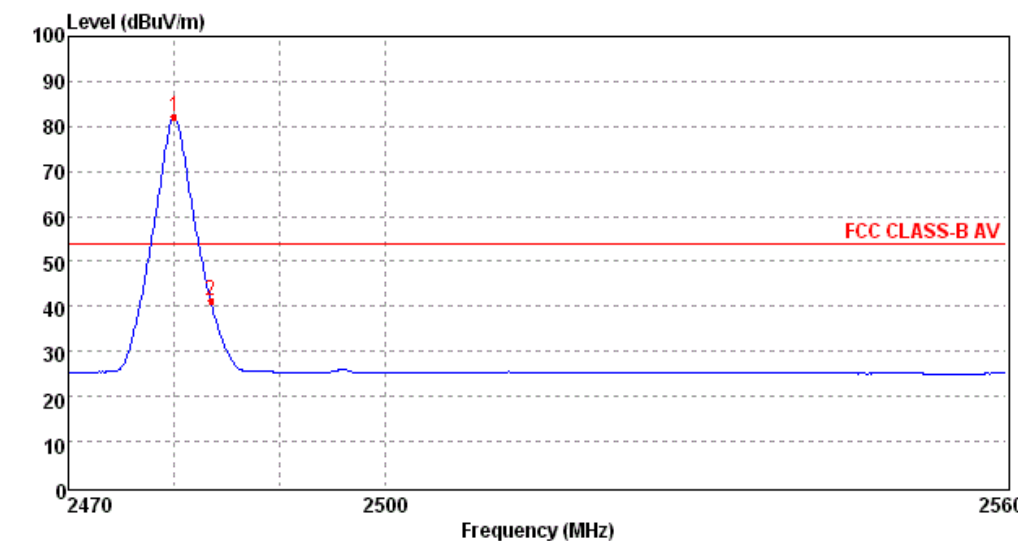
Remark: we measured all conditions (DH1, DH3, DH5) and recorded worst case at DH1

A. Radiated Bandedge Measurement

Test Mode:		GFSK			Polarization:		Horizontal		
Data: 94									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	39.35	3.32	27.49	36.12	44.63	74.00	34.65	Peak
2	2401.94	95.75	3.32	27.49	36.12	101.06	74.00	-21.75	Peak
Data: 92									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	27.98	3.32	27.49	36.12	33.26	54.00	26.02	Average
2	2402.13	83.54	3.32	27.49	36.12	88.85	54.00	-29.54	Average

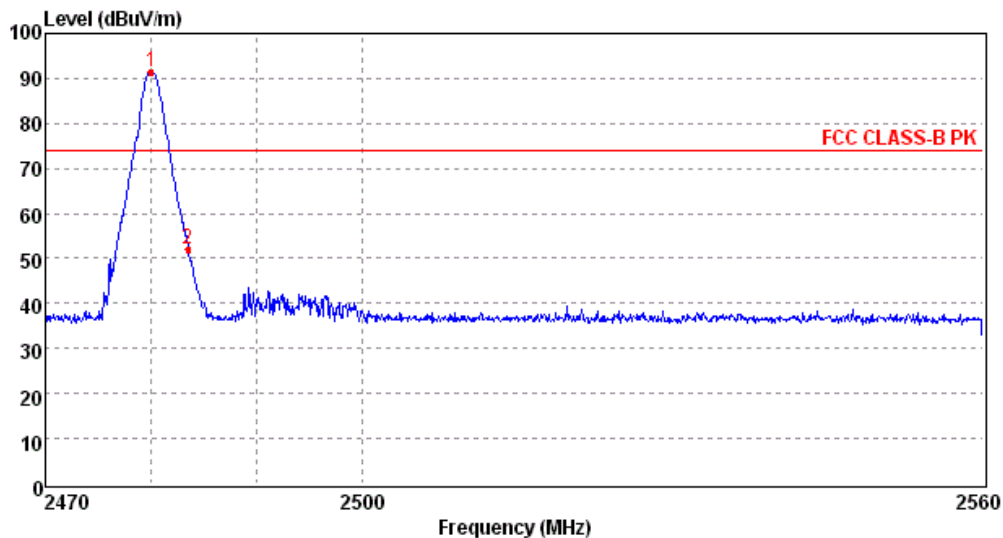
Test Mode:		GFSK			Polarization:			Vertical		
Data: 95										
										
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	2390.00	40.17	3.32	27.49	36.12	45.45	74.00	33.83	Peak	
2	2401.94	95.59	3.32	27.49	36.12	100.90	74.00	-21.59	Peak	

Data: 93									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	26.03	3.32	27.49	36.12	31.31	54.00	27.97	Average
2	2402.13	82.24	3.32	27.49	36.12	87.55	54.00	-28.24	Average

Test Mode:		GFSK			Polarization:		Horizontal		
Data: 110									
									
Mark	Frequency (MHz)	Level (dBUV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	2479.83	93.78	3.88	27.45	36.55	99.00	74.00	-19.78	Peak
2	2483.50	54.58	3.88	27.45	36.55	59.80	74.00	19.42	Peak
Data: 108									
									
Mark	Frequency (MHz)	Level (dBUV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	2480.01	81.97	3.88	27.45	36.55	87.19	54.00	-27.97	Average
2	2483.50	41.17	3.88	27.45	36.55	46.39	54.00	12.83	Average

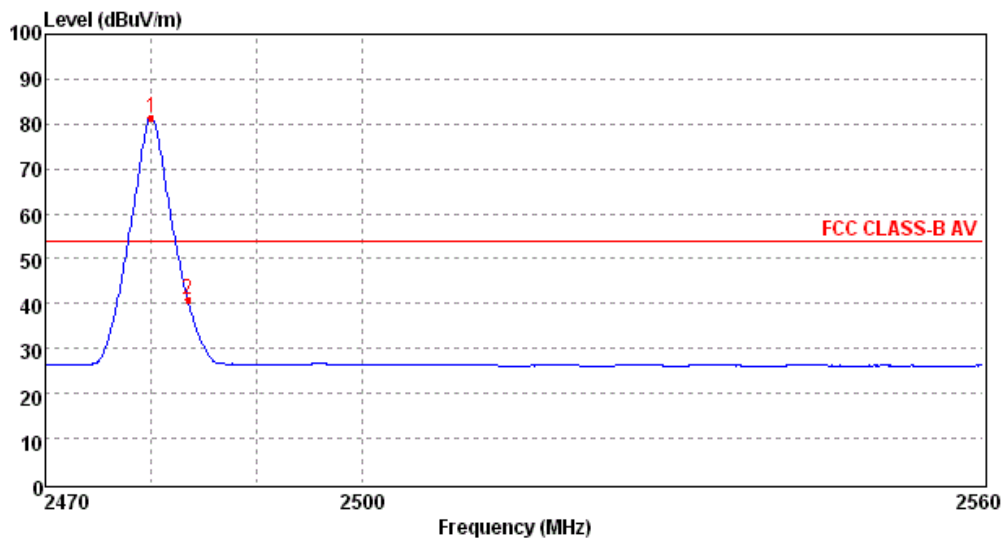
Test Mode:	GFSK	Polarization:	Vertical
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Data: 111

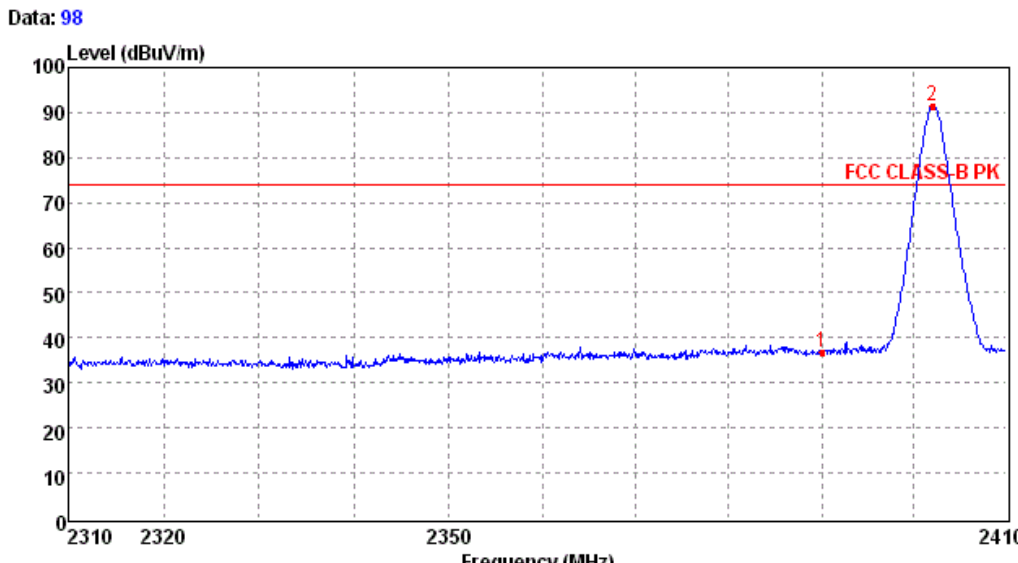


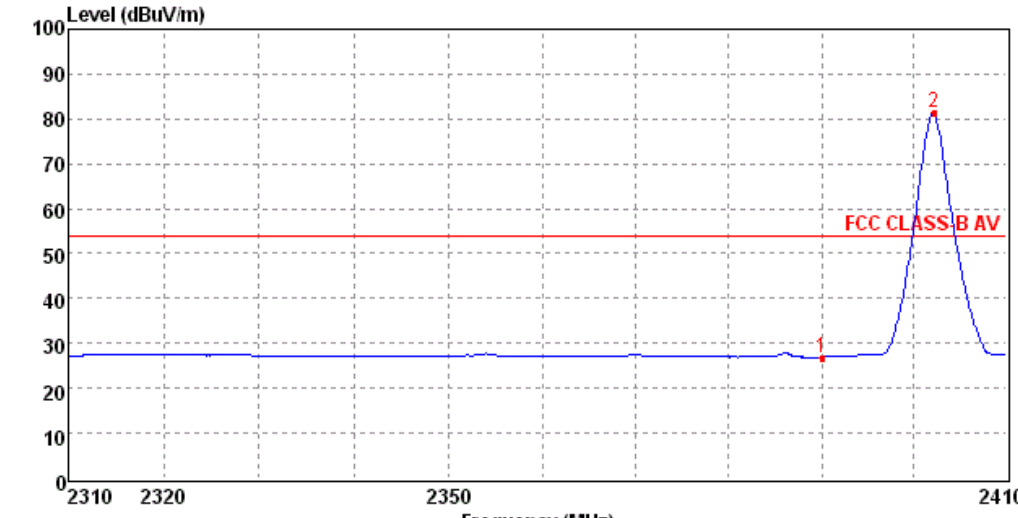
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2479.92	91.38	3.88	27.45	36.55	96.60	74.00	-17.38	Peak
2	2483.50	51.92	3.88	27.45	36.55	57.14	74.00	22.08	Peak

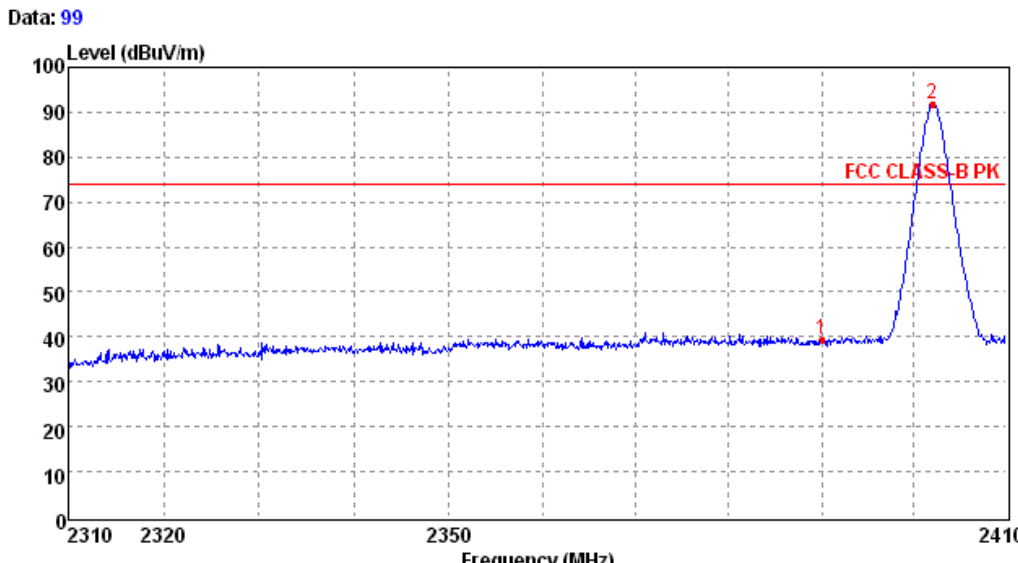
Data: 109

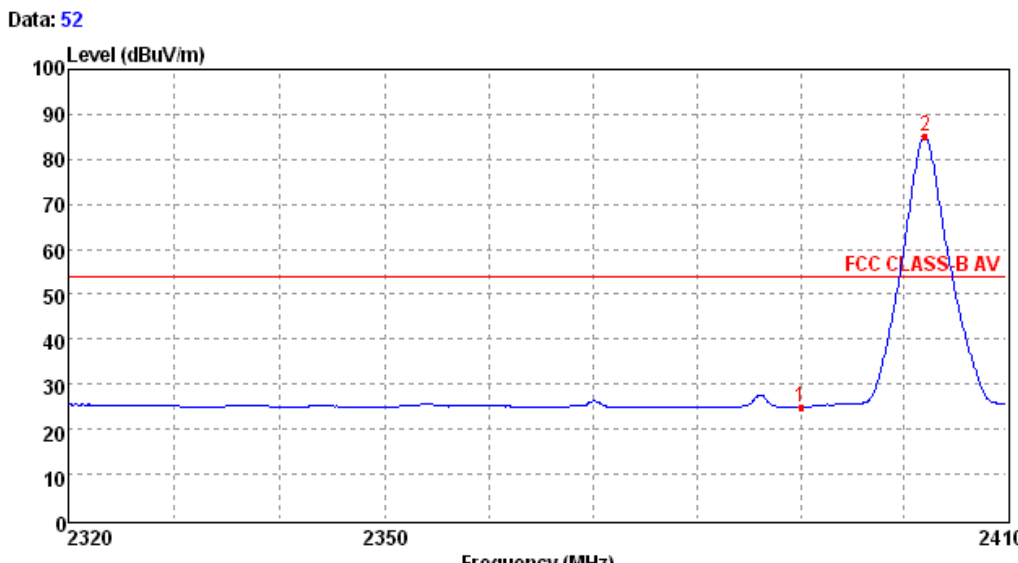


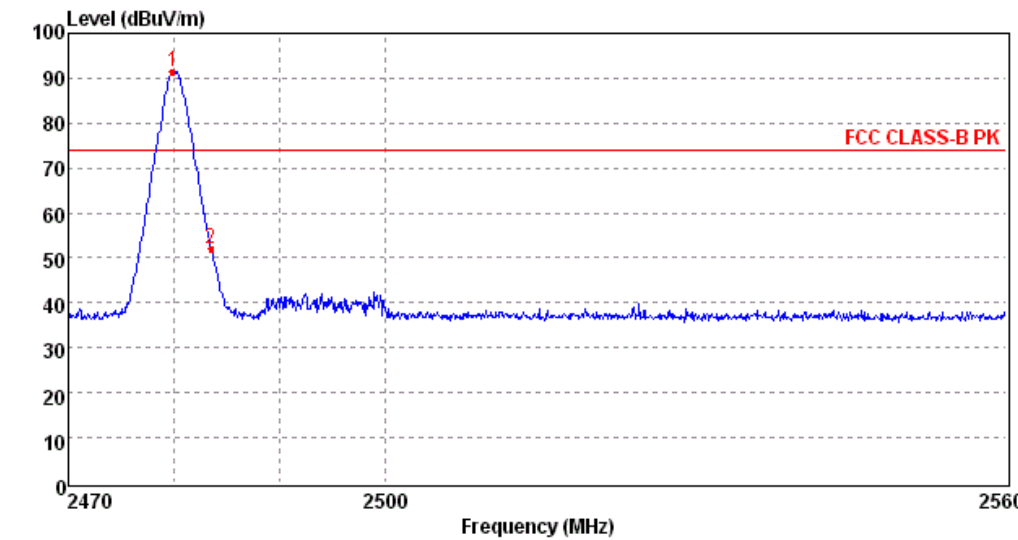
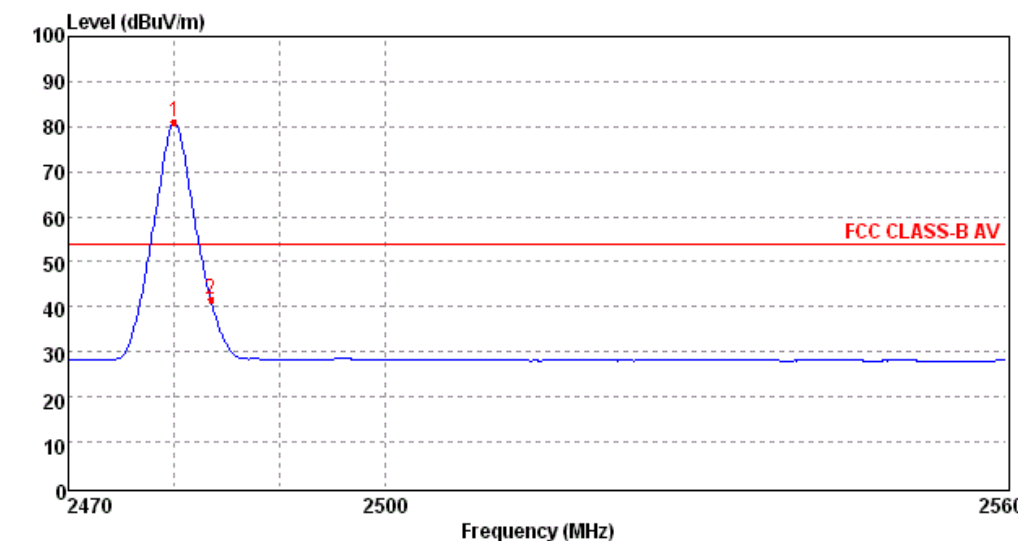
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	81.58	3.88	27.45	36.55	86.80	54.00	-27.58	Average
2	2483.50	40.96	3.88	27.45	36.55	46.18	54.00	13.04	Average

Test Mode:		π /4DQPSK			Polarization:		Horizontal		
Data: 98									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	36.86	3.32	27.49	36.12	42.14	74.00	37.14	Peak
2	2401.94	91.54	3.32	27.49	36.12	96.85	74.00	-17.54	Peak

Data: 96									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	26.94	3.32	27.49	36.12	32.22	54.00	27.06	Average
2	2402.25	81.43	3.32	27.49	36.12	86.74	54.00	-27.43	Average

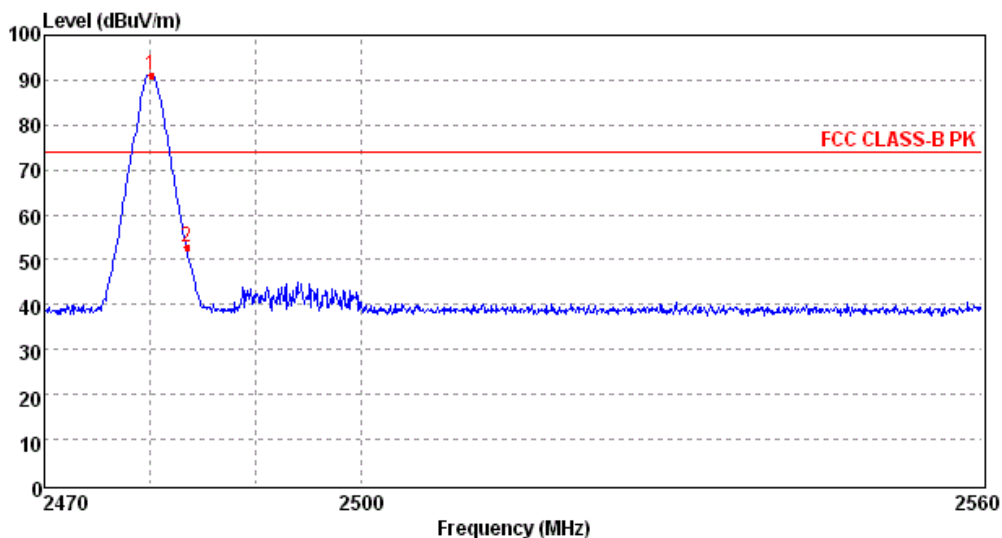
Test Mode:		π /4DQPSK			Polarization:		Vertical		
Data: 99									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	39.27	3.32	27.49	36.12	44.55	74.00	34.73	Peak
2	2402.22	91.77	3.32	27.49	36.12	97.08	74.00	-17.77	Peak

Data: 52									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	25.02	3.32	27.49	36.12	30.30	54.00	28.98	Average
2	2402.13	85.17	3.32	27.49	36.12	90.48	54.00	-31.17	Average

Test Mode:		π /4DQPSK		Polarization:		Horizontal			
Data: 114									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	91.58	3.88	27.45	36.55	96.80	74.00	-17.58	Peak
2	2483.50	52.01	3.88	27.45	36.55	57.23	74.00	21.99	Peak
Data: 112									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	80.89	3.88	27.45	36.55	86.11	54.00	-26.89	Average
2	2483.50	41.60	3.88	27.45	36.55	46.82	54.00	12.40	Average

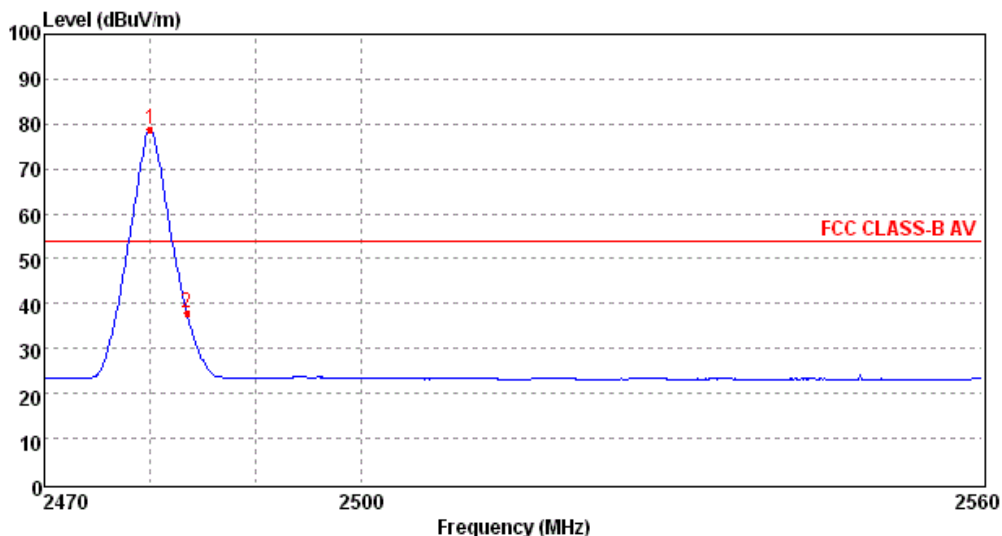
Test Mode:	$\pi/4$ QPSK	Polarization:	Vertical
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Data: 115

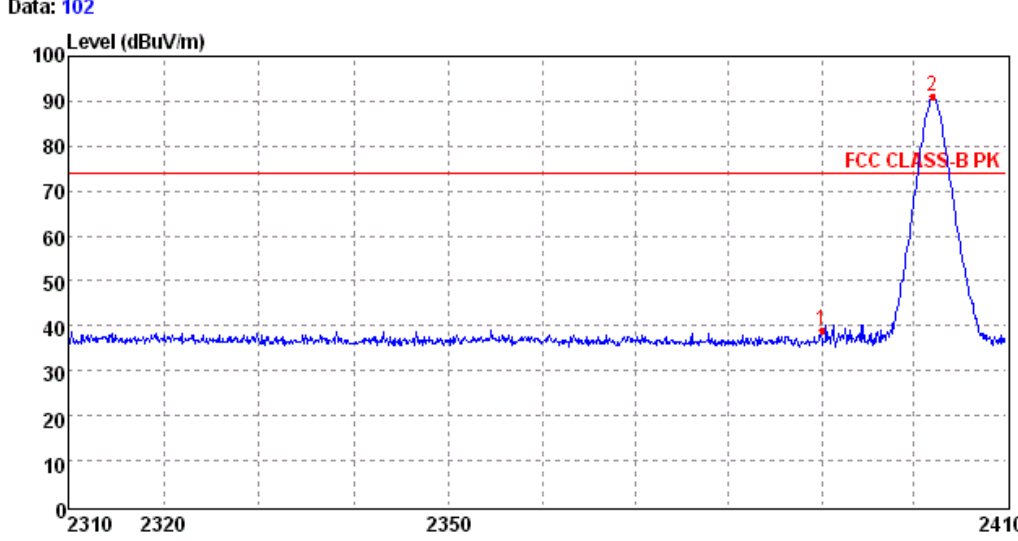


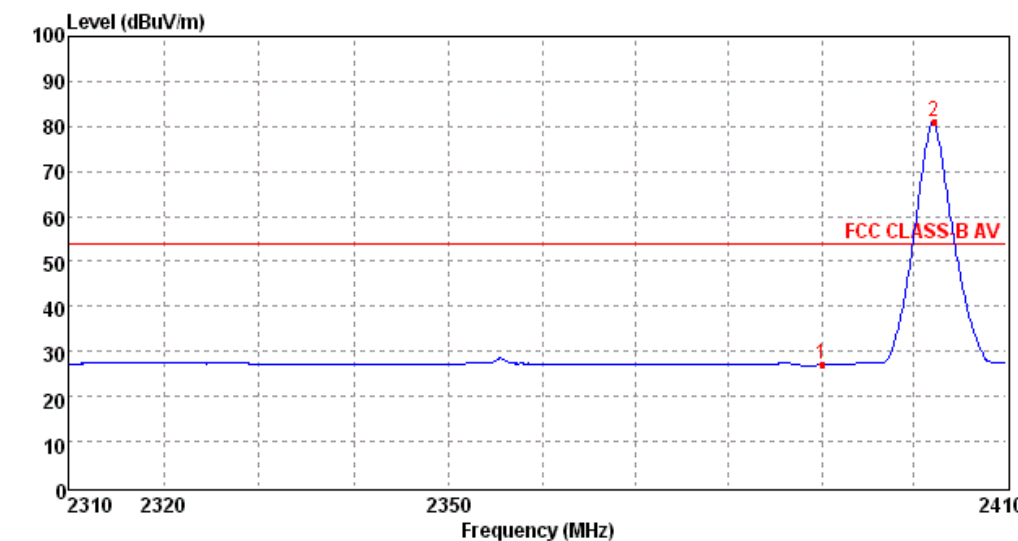
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2479.83	91.25	3.88	27.45	36.55	96.47	74.00	-17.25	Peak
2	2483.50	52.74	3.88	27.45	36.55	57.96	74.00	21.26	Peak

Data: 44



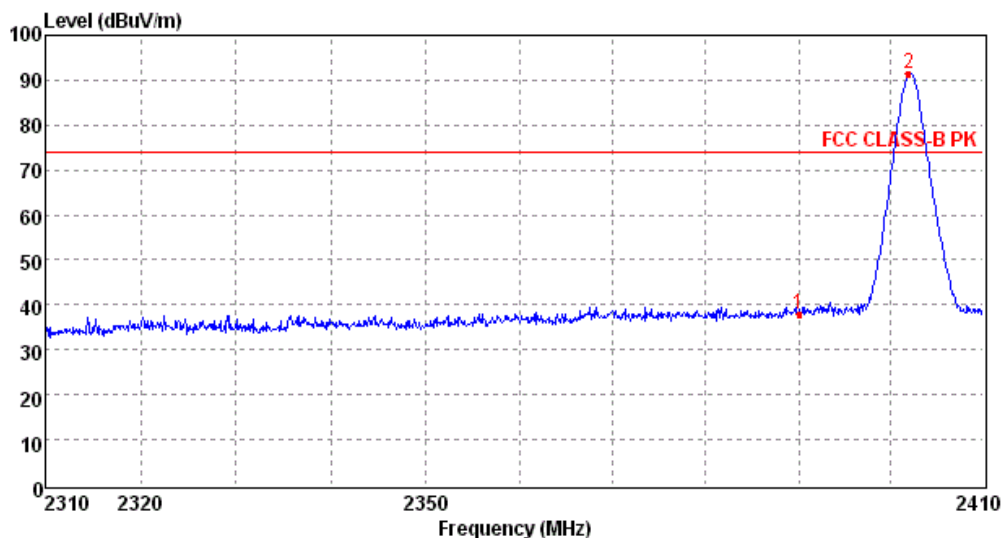
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	78.79	3.88	27.45	36.55	84.01	54.00	-24.79	Average
2	2483.50	38.04	3.88	27.45	36.55	43.26	54.00	15.96	Average

Test Mode:		8DPSK			Polarization:		Horizontal		
Data: 102									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	38.97	3.32	27.49	36.12	44.25	74.00	35.03	Peak
2	2402.03	90.98	3.32	27.49	36.12	96.29	74.00	-16.98	Peak

Data: 100									
									
Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	26.98	3.32	27.49	36.12	32.26	54.00	27.02	Average
2	2402.13	80.99	3.32	27.49	36.12	86.30	54.00	-26.99	Average

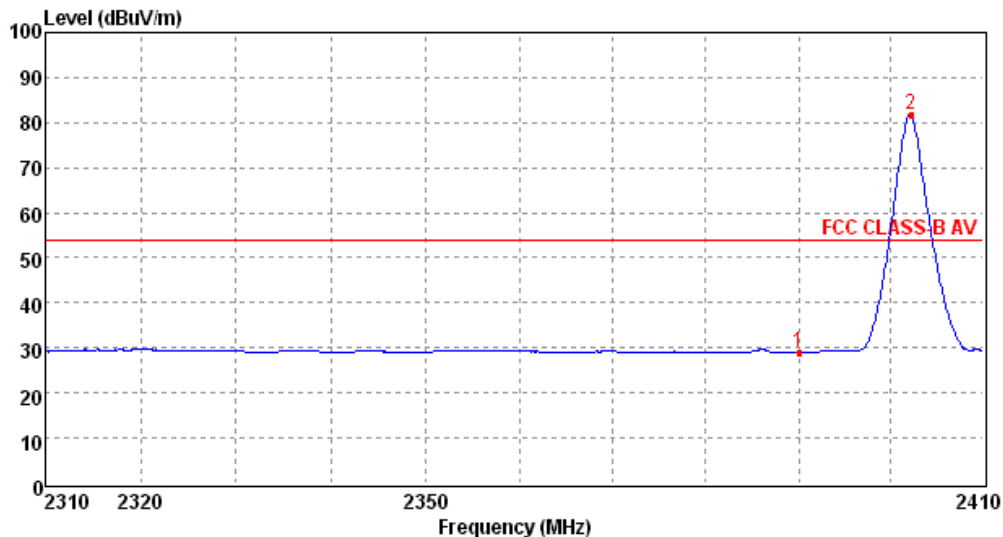
Test Mode:	8DPSK	Polarization:	Vertical
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Data: 103



Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	38.04	3.32	27.49	36.12	43.32	74.00	35.96	Peak
2	2402.22	91.63	3.32	27.49	36.12	96.94	74.00	-17.63	Peak

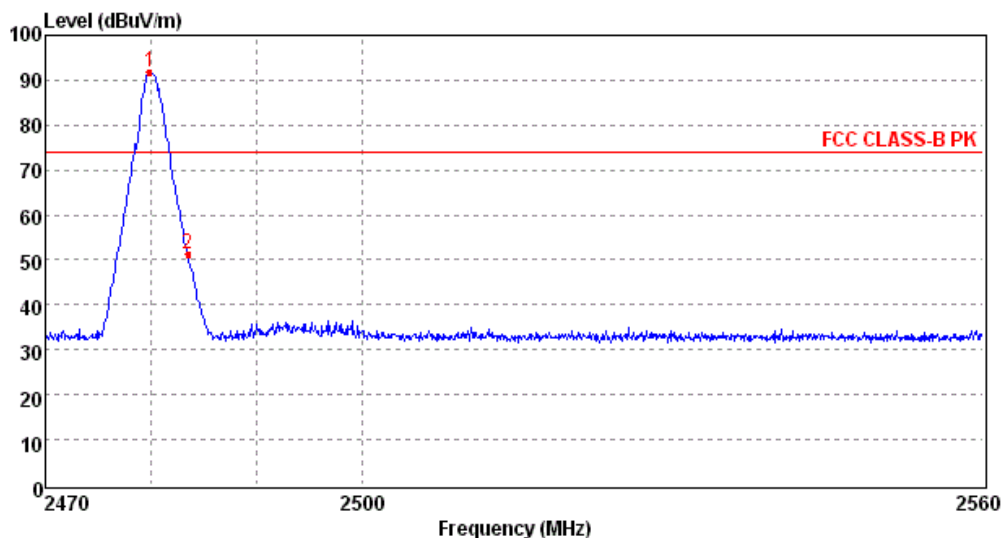
Data: 101



Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	28.98	3.32	27.49	36.12	34.26	54.00	25.02	Average
2	2402.03	81.87	3.32	27.49	36.12	87.18	54.00	-27.87	Average

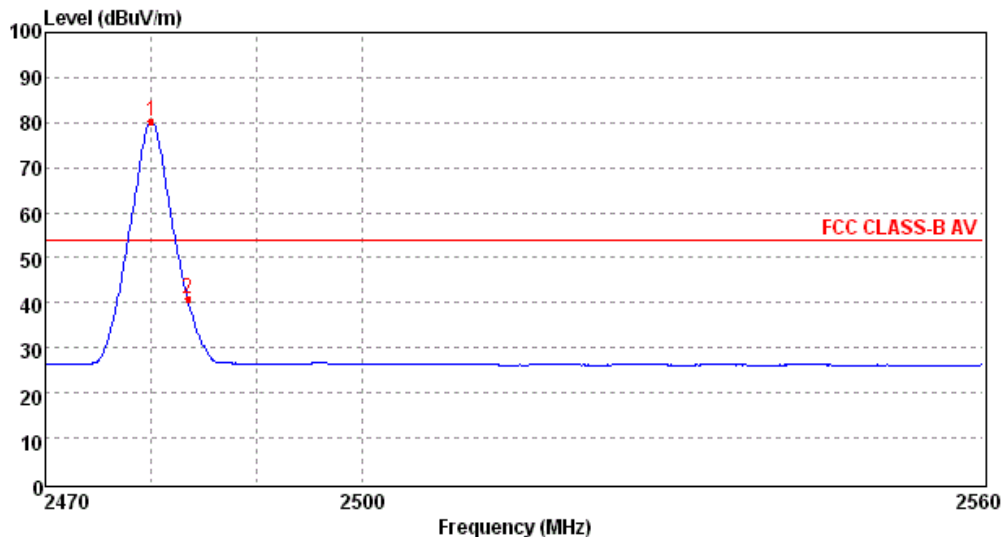
Test Mode:	8DPSK	Polarization:	Horizontal
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Data: 107



Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2479.92	91.95	3.88	27.45	36.55	97.17	74.00	-17.95	Peak
2	2483.50	51.32	3.88	27.45	36.55	56.54	74.00	22.68	Peak

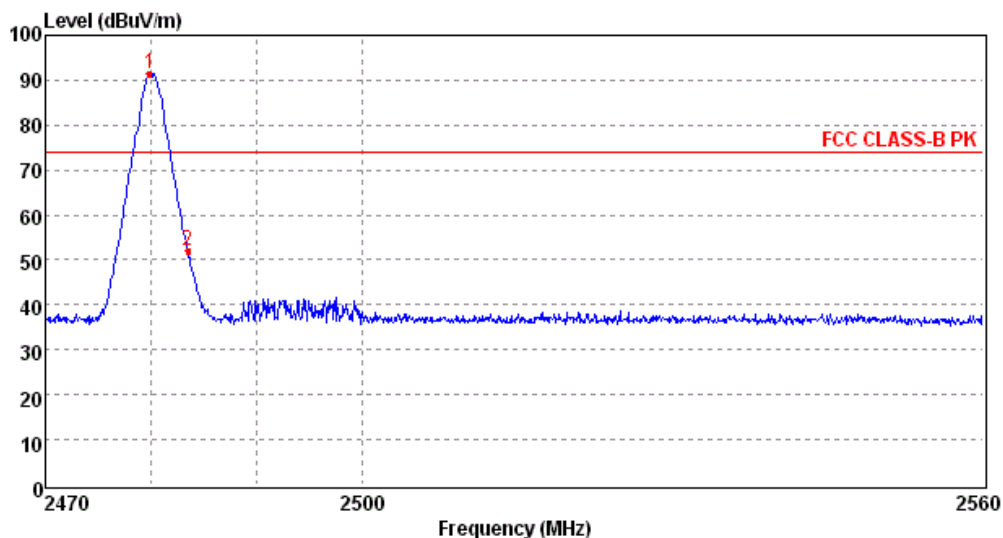
Data: 104



Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	80.30	3.88	27.45	36.55	85.52	54.00	-26.30	Average
2	2483.50	40.77	3.88	27.45	36.55	45.99	54.00	13.23	Average

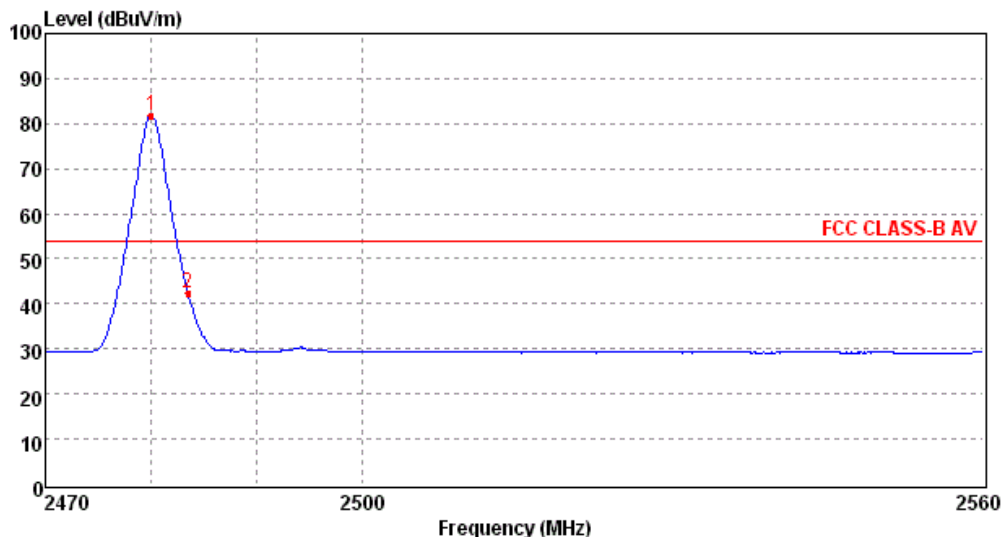
Test Mode:	8DPSK	Polarization:	Vertical
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Data: 106



Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2479.83	91.53	3.88	27.45	36.55	96.75	74.00	-17.53	Peak
2	2483.50	52.14	3.88	27.45	36.55	57.36	74.00	21.86	Peak

Data: 105

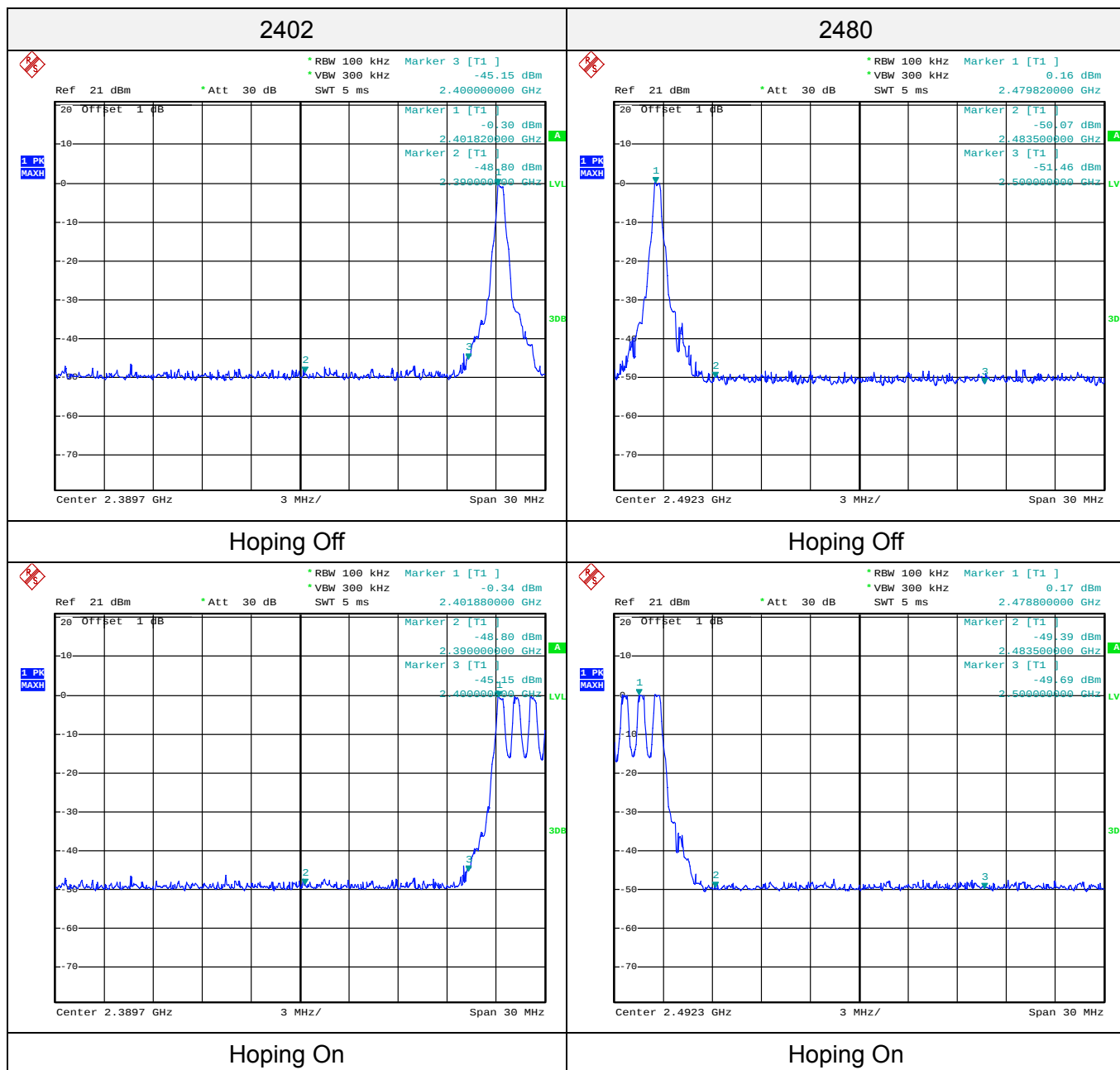


Mark	Frequency (MHz)	Level (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Reading Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2480.01	81.89	3.88	27.45	36.55	87.11	54.00	-27.89	Average
2	2483.50	42.55	3.88	27.45	36.55	47.77	54.00	11.45	Average

B. Conducted Bandedge Measurement

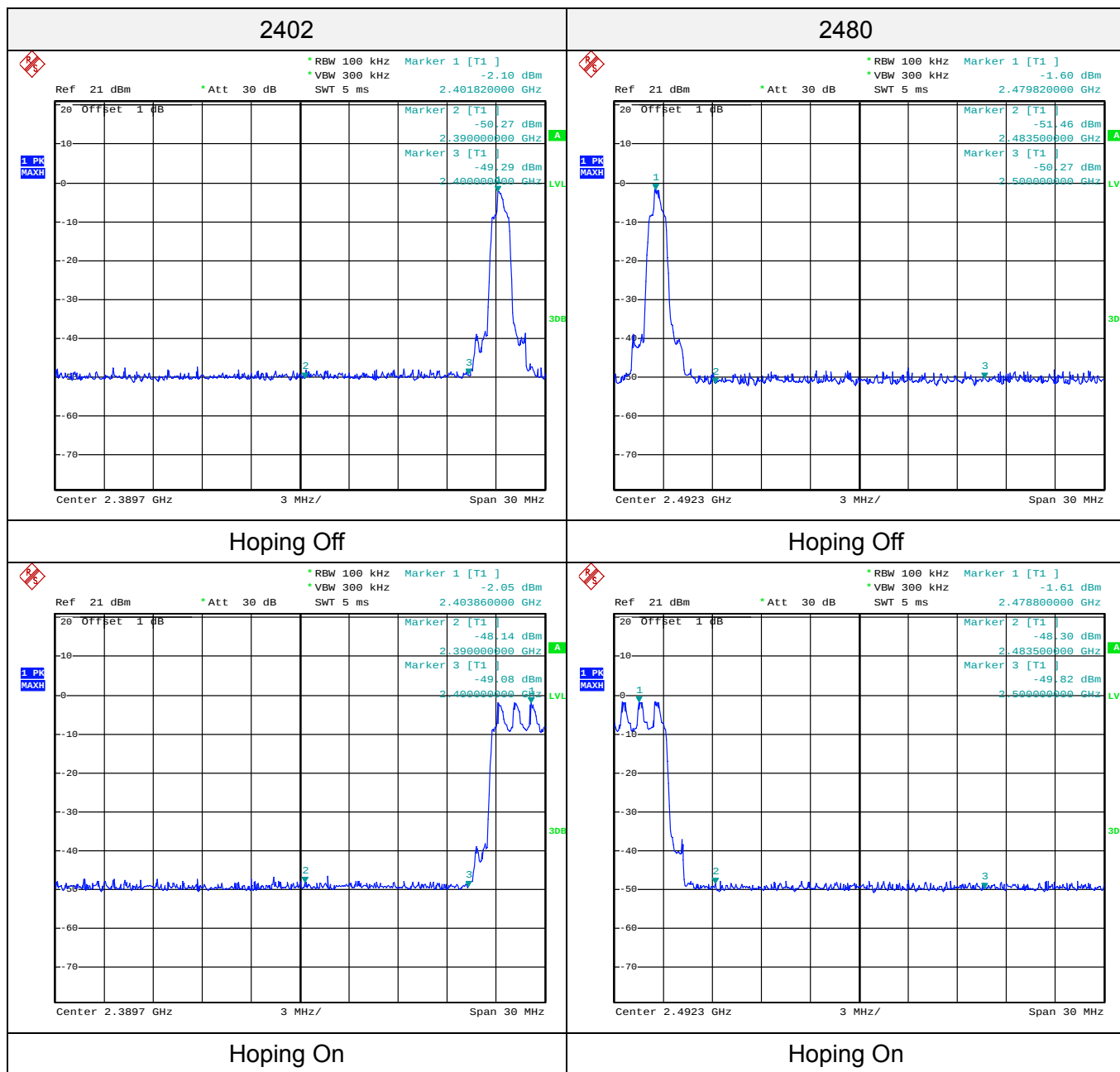
GFSK

Frequency (MHz)	Delta Peak to Band emission (dBc)	Hopping Mode	Limit (dBc)	Verdict
2400.00	44.85	OFF	20	PASS
2400.00	44.81	ON	20	PASS
2483.50	50.23	OFF	20	PASS
2483.50	49.56	ON	20	PASS



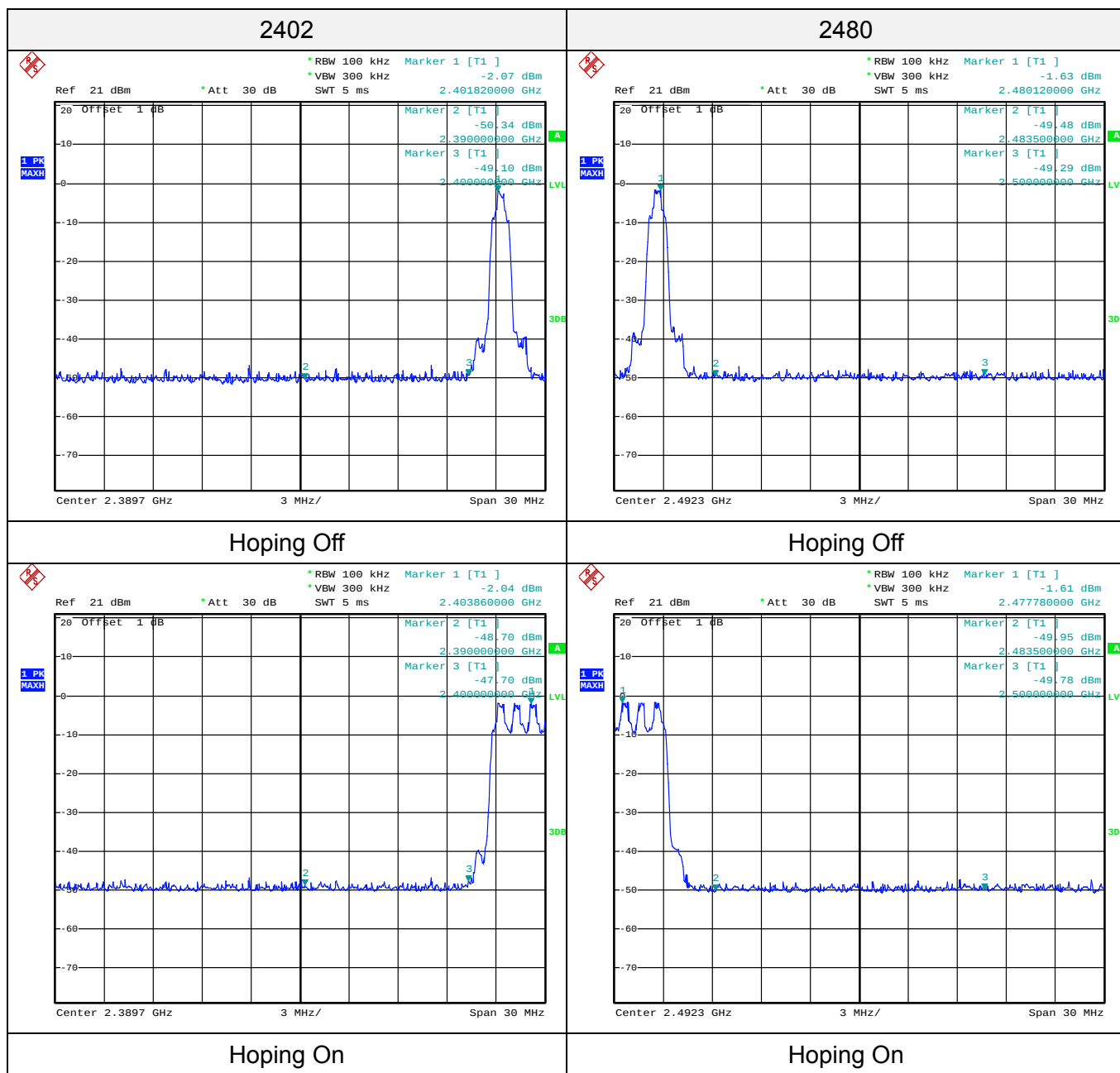
$\pi/4$ DQPSK

Frequency (MHz)	Delta Peak to Band emission (dBc)	Hopping Mode	Limit (dBc)	Verdict
2400.00	47.19	OFF	20	PASS
2400.00	47.03	ON	20	PASS
2483.50	49.86	OFF	20	PASS
2483.50	46.69	ON	20	PASS



8DPSK

Frequency (MHz)	Delta Peak to Band emission (dBc)	Hopping Mode	Limit (dBc)	Verdict
2400.00	47.03	OFF	20	PASS
2400.00	45.66	ON	20	PASS
2483.50	47.85	OFF	20	PASS
2483.50	48.34	ON	20	PASS



3.6. Frequency Separation

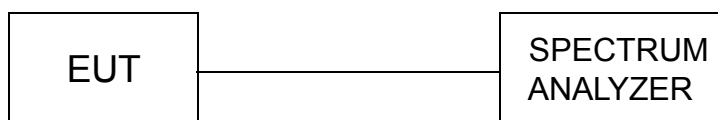
LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the $2/3 \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100KHz VBW.

TEST CONFIGURATION



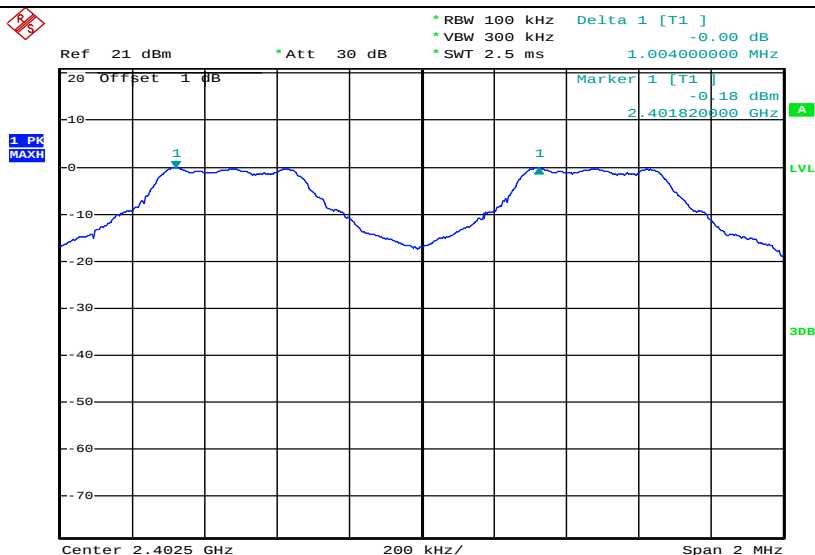
TEST RESULTS

Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK	CH40	1.004	25KHz or $2/3 \times 20\text{dB}$ bandwidth	Pass
	CH41			
$\pi/4$ DQPSK	CH40	1.004	25KHz or $2/3 \times 20\text{dB}$ bandwidth	Pass
	CH41			
8DPSK	CH40	1.004	25KHz or $2/3 \times 20\text{dB}$ bandwidth	Pass
	CH41			

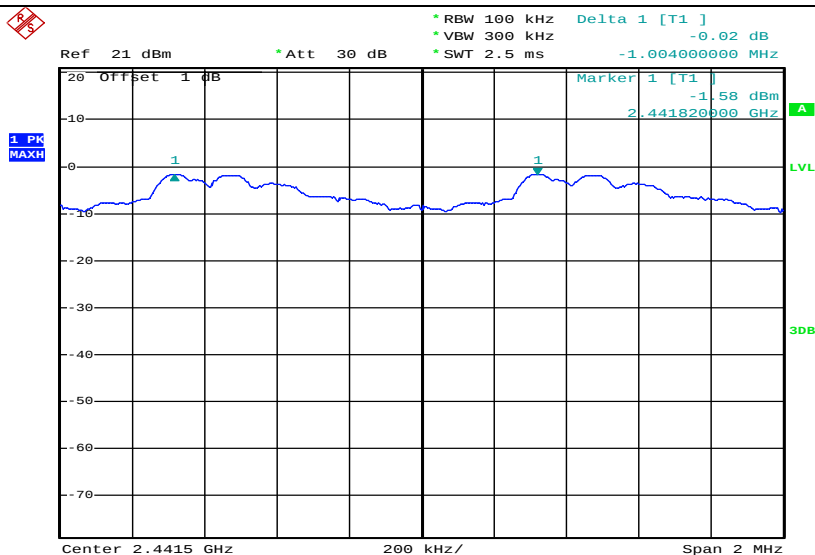
Note:

We have tested all mode at high, middle and low channel, and recorded worst case at middle

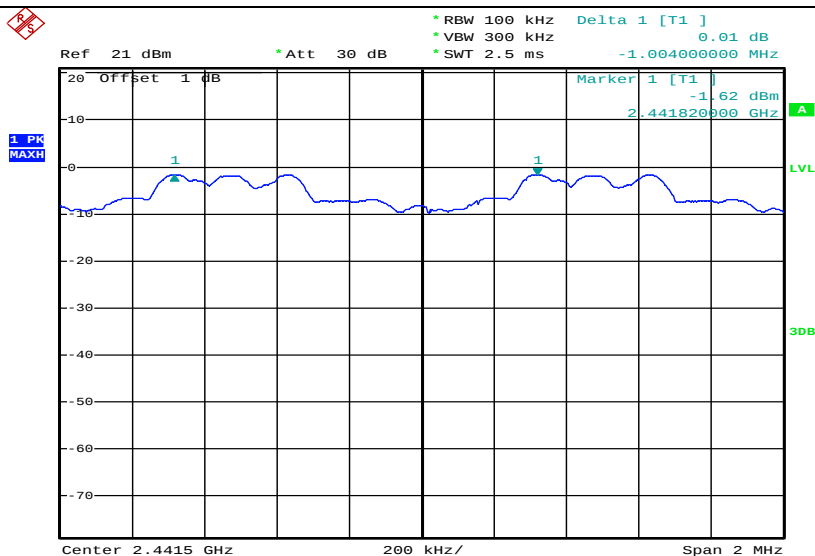
Test plot as follows:



GFSK



8DPSK



$\pi/4$ DQPSK

3.7. Number of hopping frequency

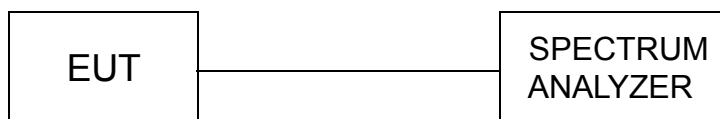
Limit

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

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

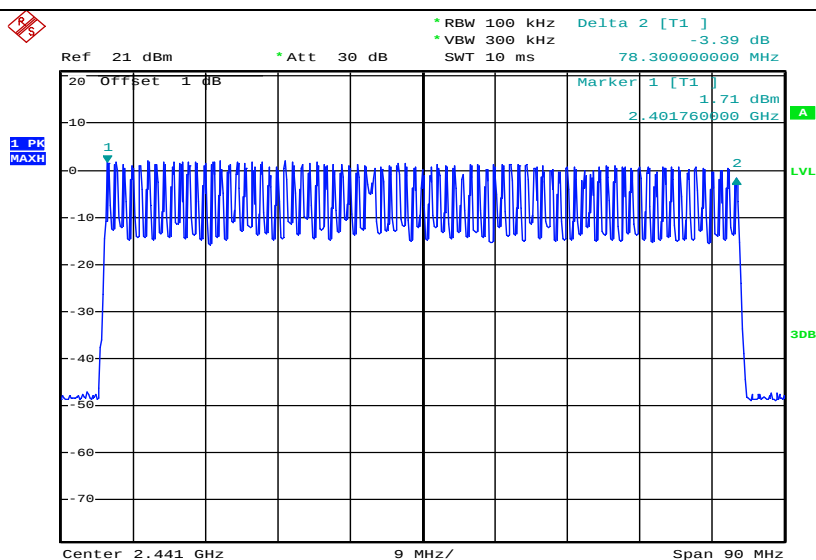
Test Configuration



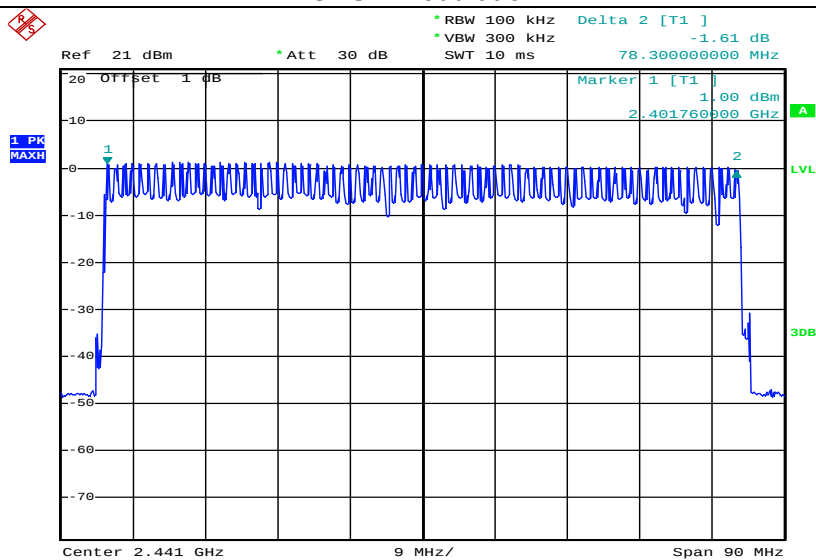
Test Results

Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	≥15	Pass
π/4DQPSK	79		
8DPSK	79		

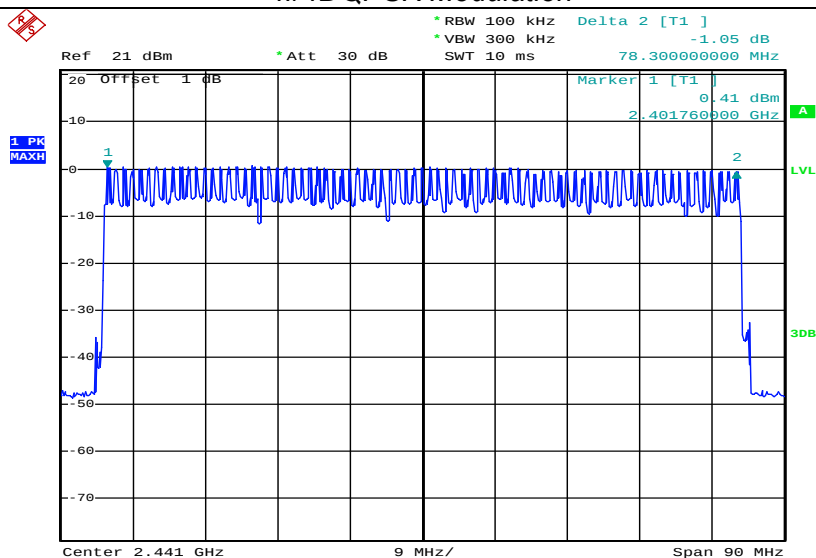
Test plot as follows:



GFSK Modulation



$\pi/4$ DQPSK Modulation



8DPSK Modulation

3.8. Time of Occupancy (Dwell Time)

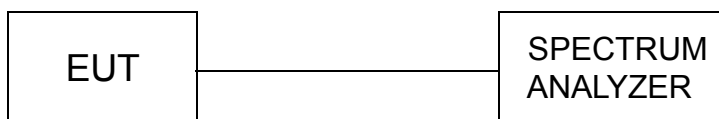
Limit

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

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 3MHz VBW,Span 0Hz.

Test Configuration



Test Results

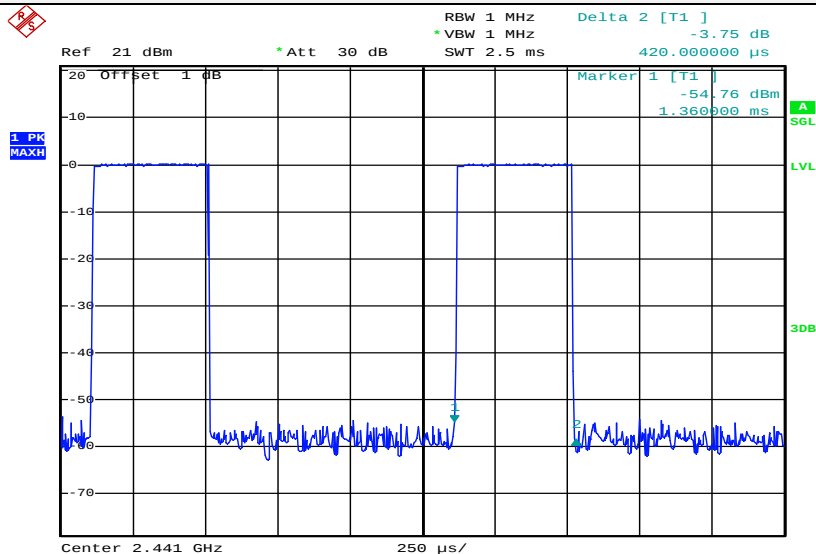
Modulation	Packet	Dwell time (second)	Limit (second)	Result
GFSK	DH1	0.134	0.40	Pass
	DH3	0.271		
	DH5	0.315		
$\pi/4$ DQPSK	2-DH1	0.138	0.40	Pass
	2-DH3	0.270		
	2-DH5	0.317		
8DPSK	3-DH1	0.138	0.40	Pass
	3-DH3	0.270		
	3-DH5	0.315		

Note:

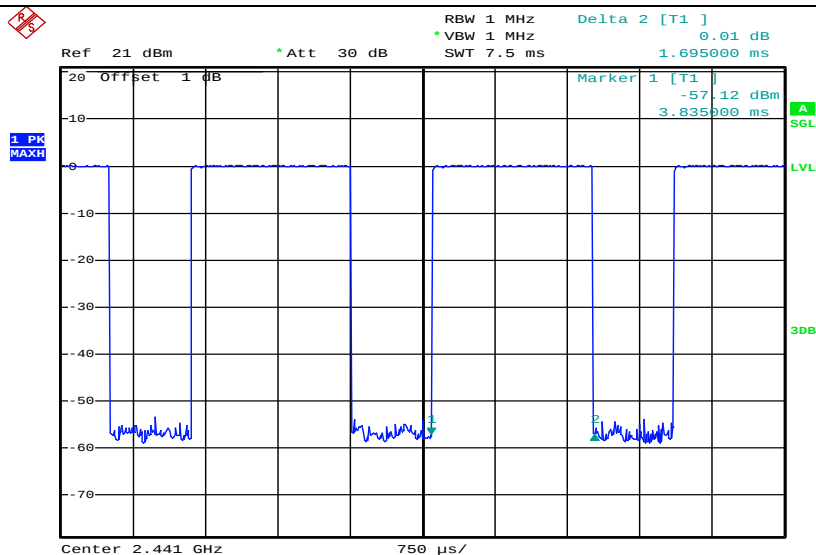
- We have tested all mode at high,middle and low channel,and recoreded worst case at middle channel.
- $\text{Dwell time} = \text{Pulse time (ms)} \times (1600 \div 2 \div 79) \times 31.6$ Second for DH1, 2-DH1, 3-DH1
 $\text{Dwell time} = \text{Pulse time (ms)} \times (1600 \div 4 \div 79) \times 31.6$ Second for DH3, 2-DH3, 3-DH3
 $\text{Dwell time} = \text{Pulse time (ms)} \times (1600 \div 6 \div 79) \times 31.6$ Second for DH5, 2-DH5, 3-DH5

Test plot as follows:

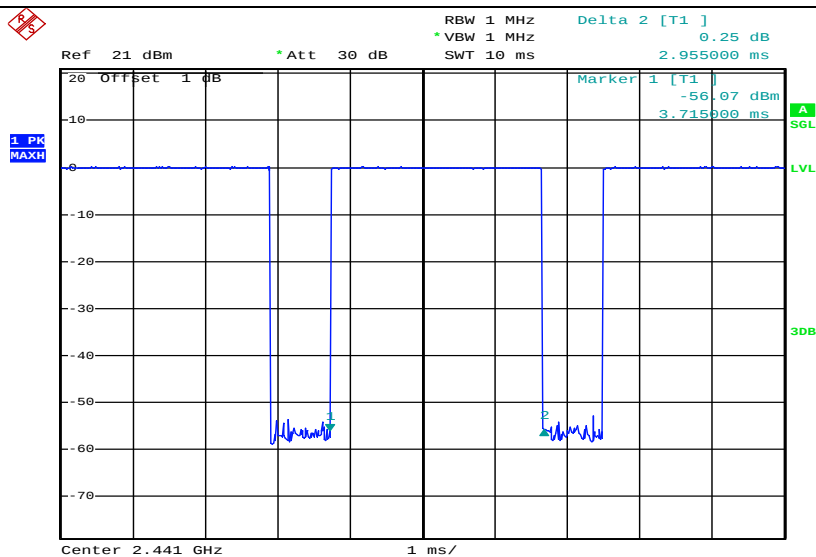
GFSK Modulation



DH1

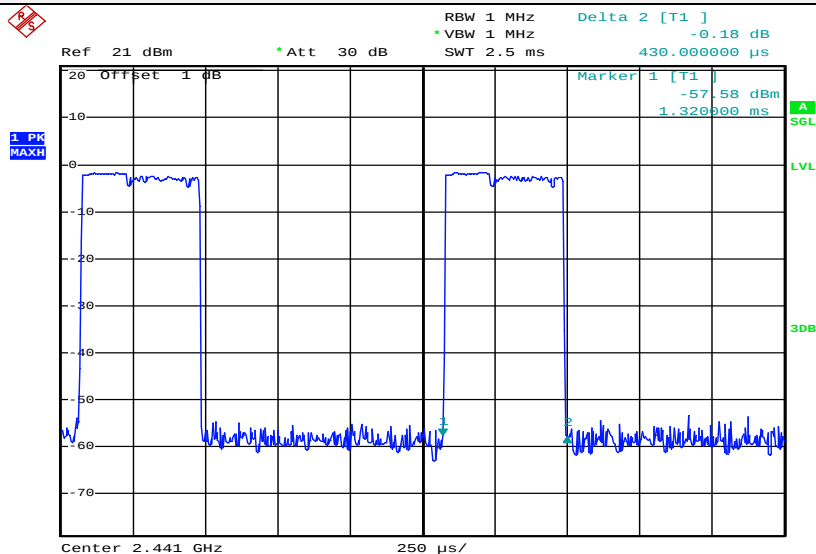


DH3

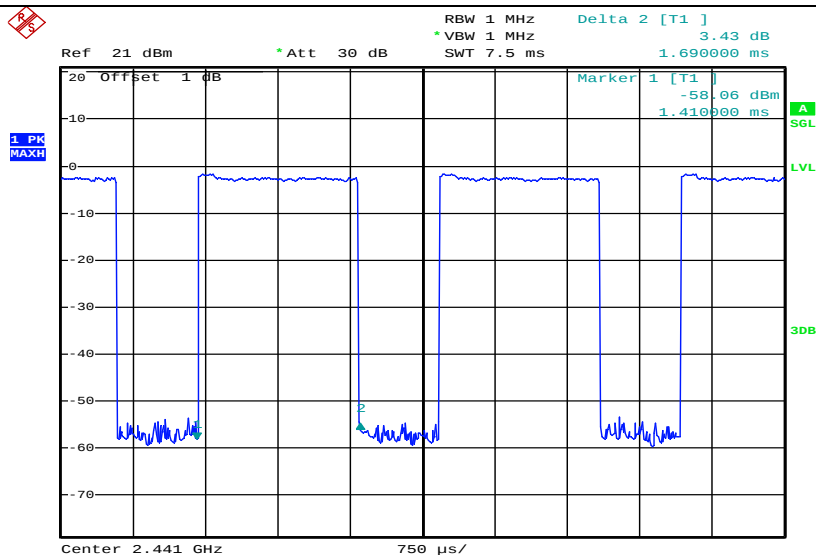


DH5

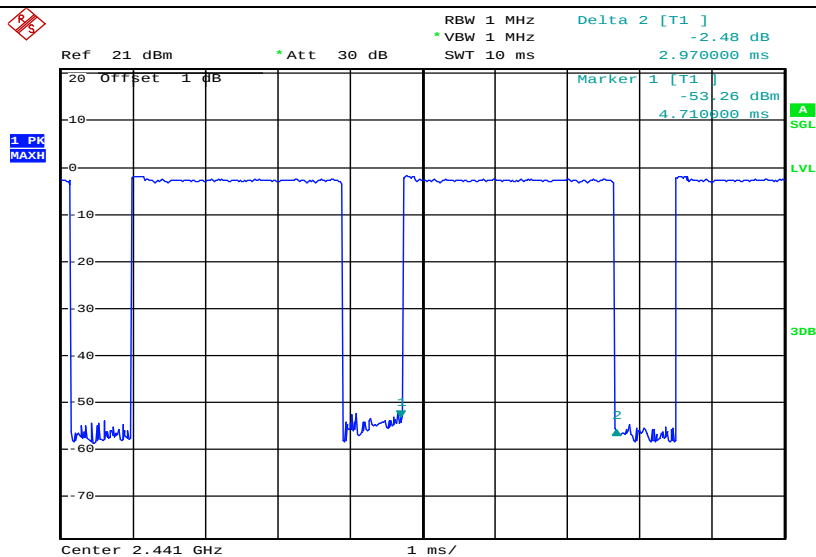
$\pi/4$ DQPSK Modulation



2-DH1

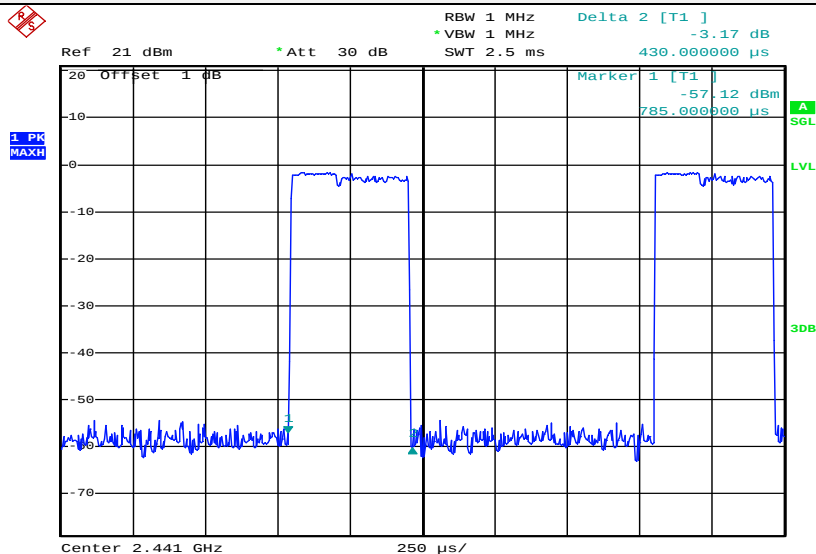


2-DH3

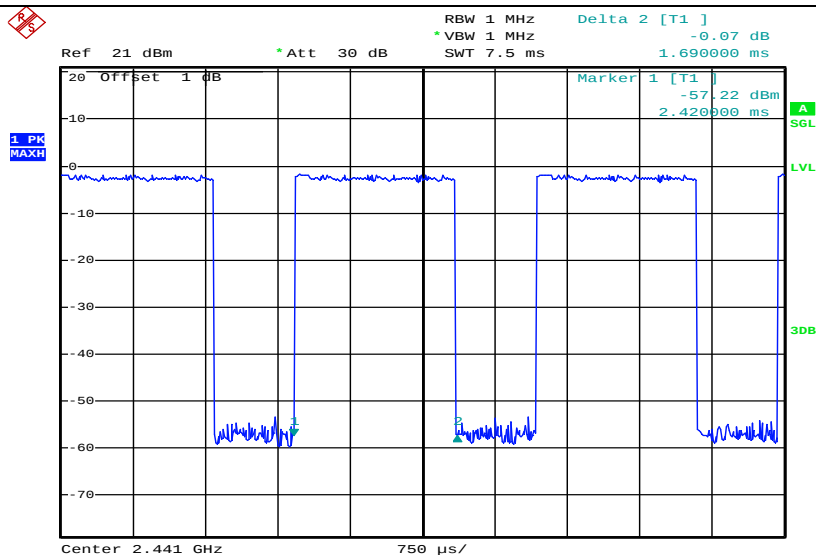


2-DH5

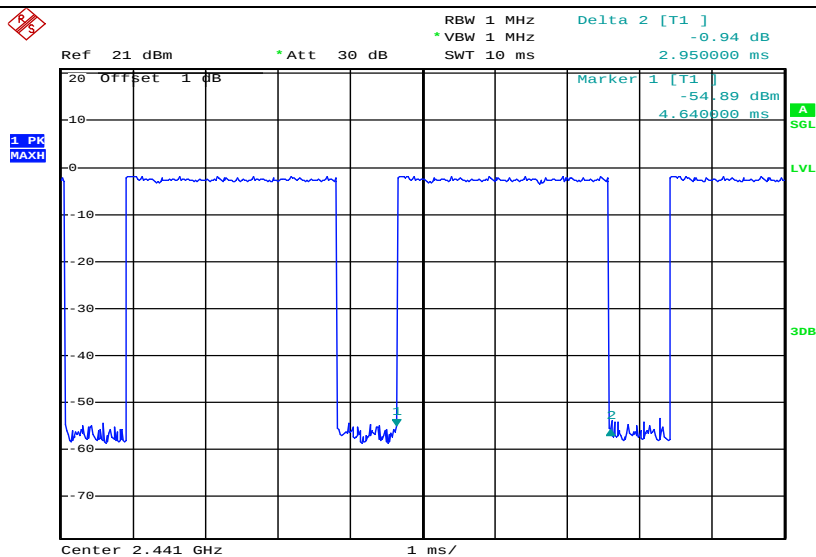
8DPSK Modulation



3-DH1



3-DH3



3-DH5

3.9. Spurious RF Conducted Emission

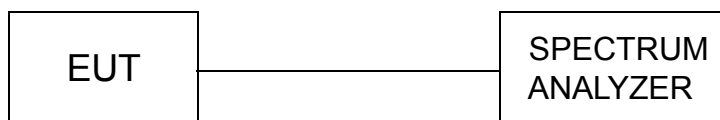
Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100 kHz and VBM= 300 KHz to measure the peak field strength, and measurement frequency range from 30MHz to 26.5GHz.

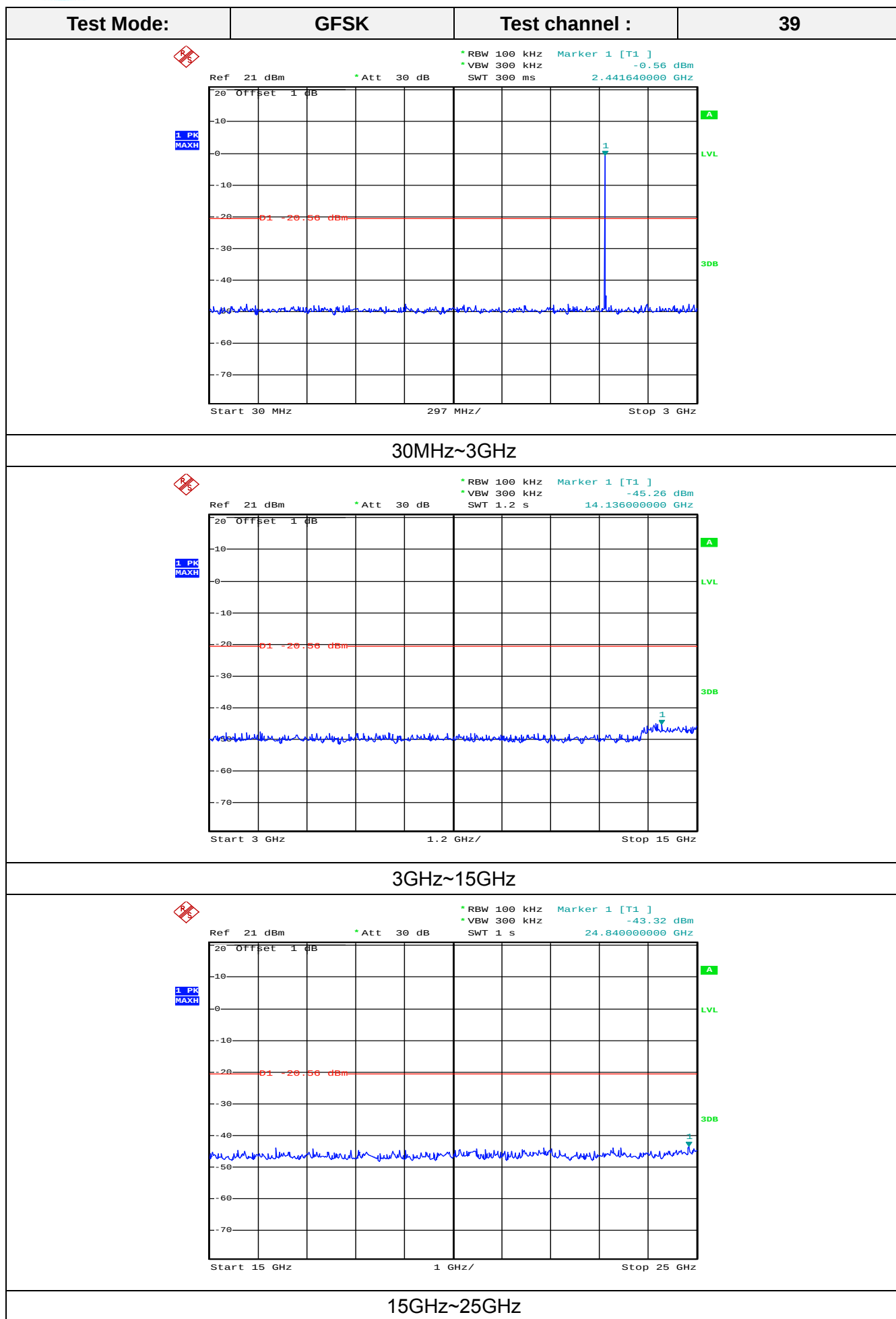
Test Configuration



Test Results

Remark: We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH1

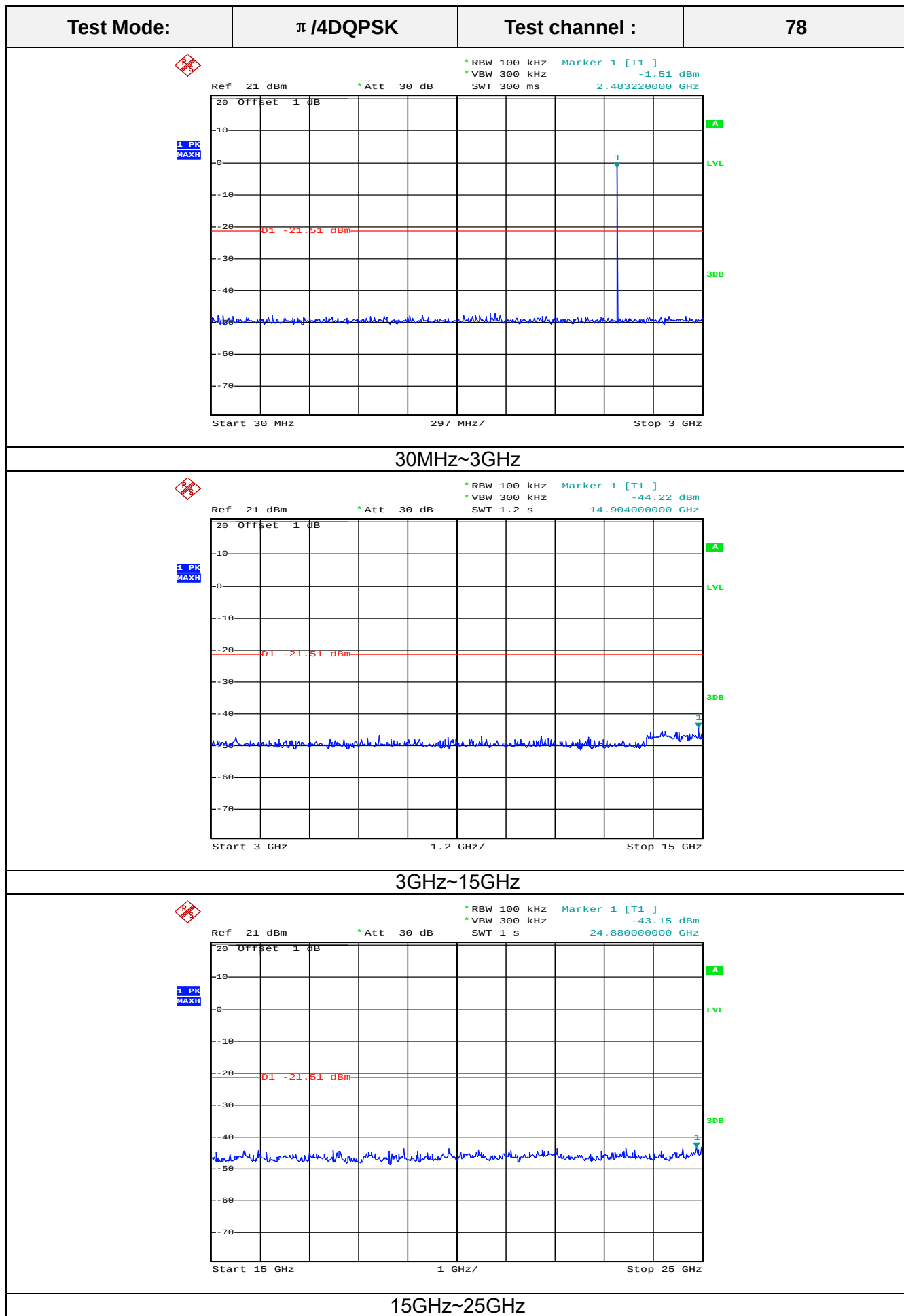






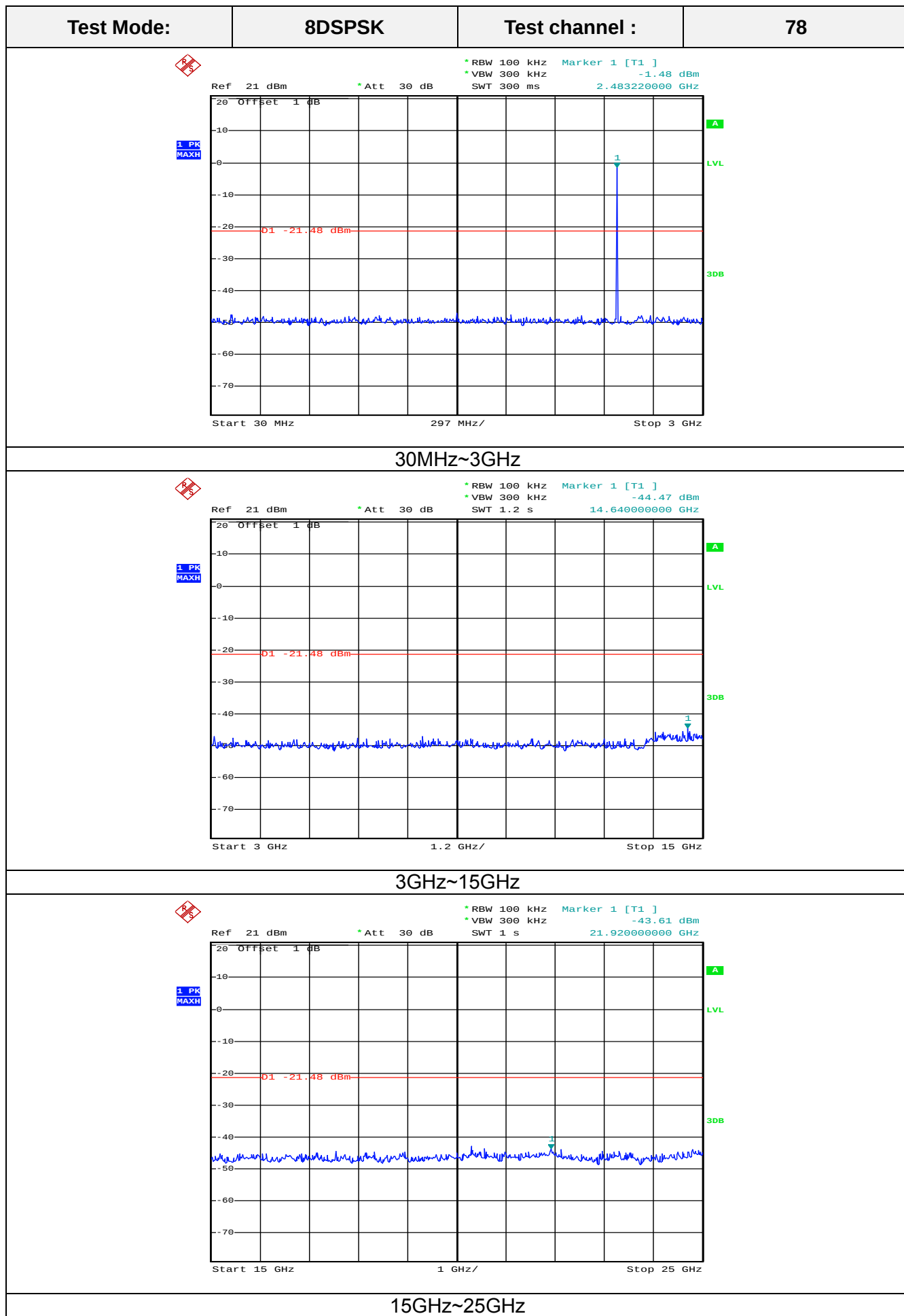












3.10. Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

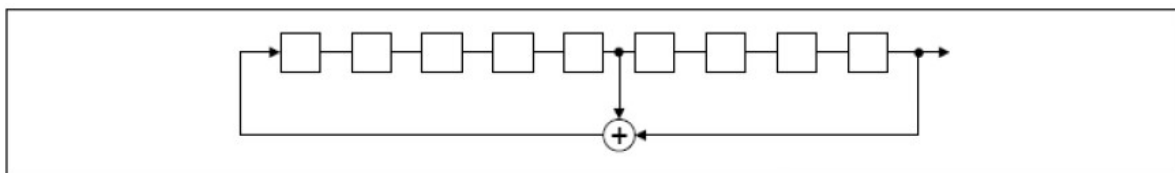
For 47 CFR Part 15C section 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

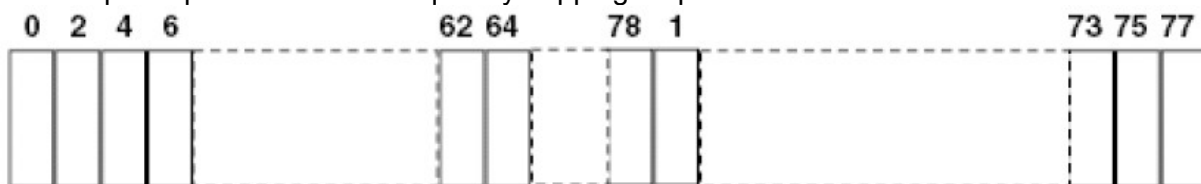
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

3.11. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

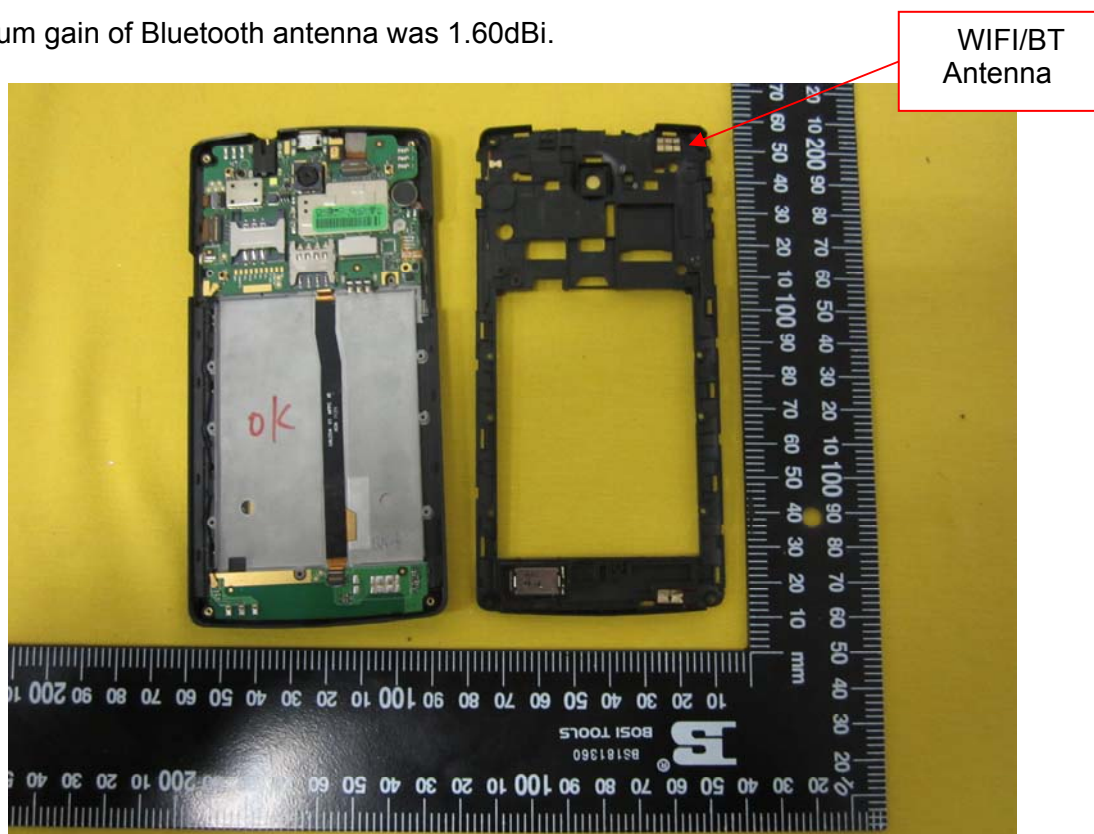
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The maximum gain of Bluetooth antenna was 1.60dBi.



4. EUT TEST PHOTO

Radiated Emission (30MHz-1GHz)



Radiated Emission (1GHz-25GHz)



Conducted Emission





5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the test report No.: GTI20140444F-1

*****THE END*****