

## TEST REPORT

**Product** : Beyond Tablet Mini Edition  
**Trade mark** : Beyond Screen  
**Model/Type reference** : BYM002  
**Serial Number** : N/A  
**Report Number** : EED32K00140002  
**FCC ID** : 2AK5X-BTM6362  
**Date of Issue** : Jul. 03, 2018  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

**Beyond Screen Limited**  
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**Beijing, 100102, China**

Prepared by:

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**2 Version**

Version No.	Date	Description
00	Jul. 03, 2018	Original

### 3 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
<b>Conducted Peak Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013	PASS
<b>20dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
<b>Carrier Frequencies Separation</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
<b>Hopping Channel Number</b>	47 CFR Part 15 Subpart C Section 15.247 (b)	ANSI C63.10-2013	PASS
<b>Dwell Time</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
<b>Pseudorandom Frequency Hopping Sequence</b>	47 CFR Part 15 Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10-2013	PASS
<b>RF Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>Radiated Spurious emissions</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested samples and the sample information are provided by the client.

The Beyond Tablet Mini Edition has two color appearance, the electrical circuit design, layout, and operational principle were identical for two color appearance, only the color is different.

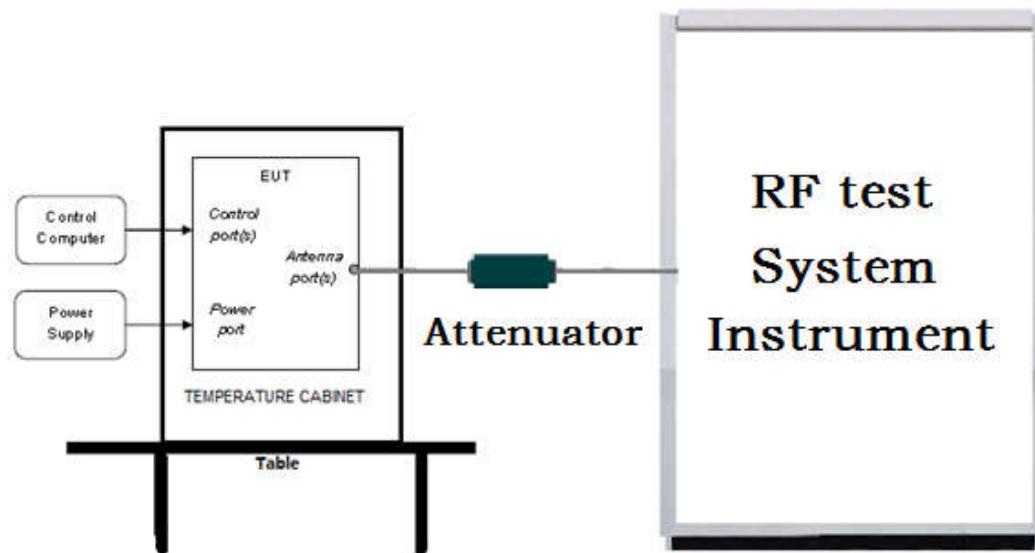
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

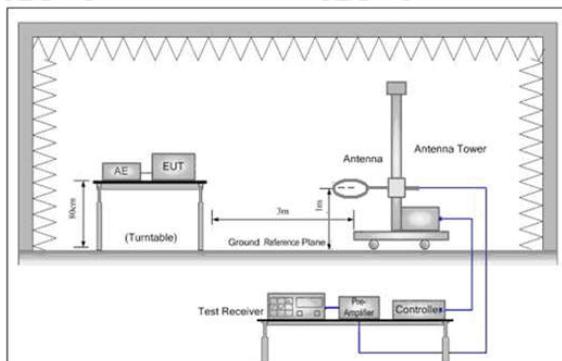


Figure 1. Below 30MHz

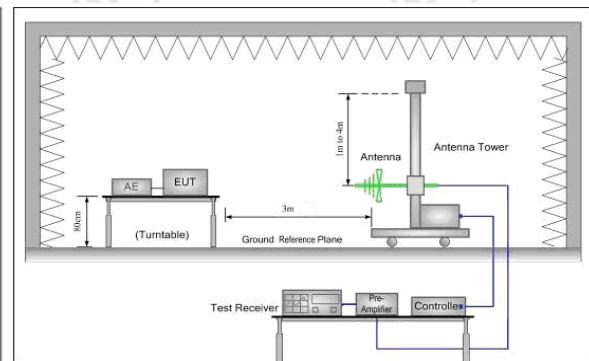


Figure 2. 30MHz to 1GHz

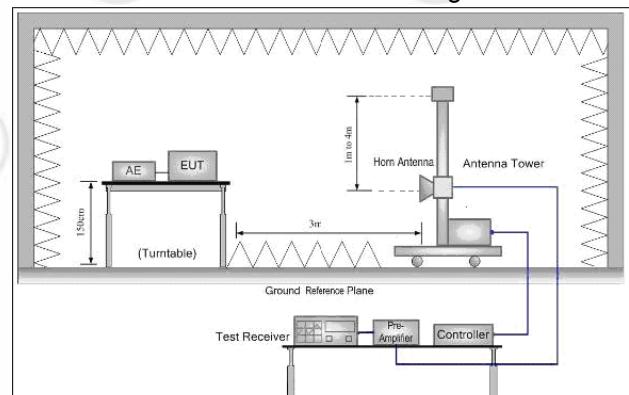
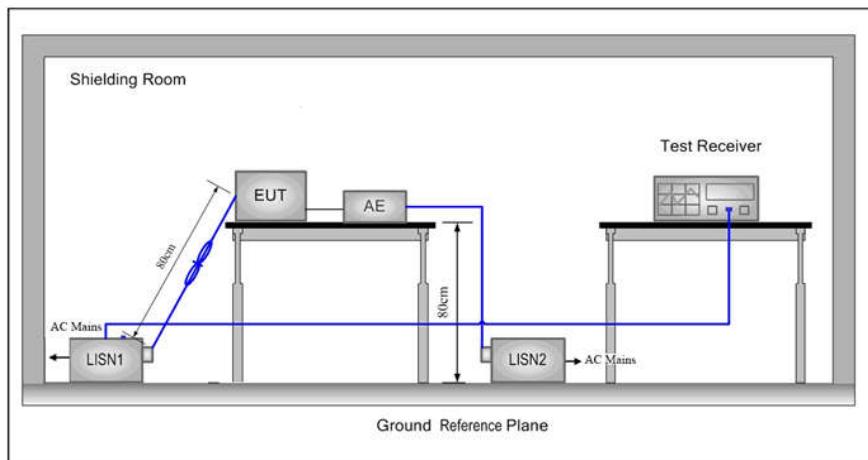


Figure 3. Above 1GHz

### 5.1.3 For Conducted Emissions test setup

#### Conducted Emissions setup



## 5.2 Test Environment

### Operating Environment:

Temperature:	26.4 °C
Humidity:	60% RH
Atmospheric Pressure:	1010mbar

## 5.3 Test Condition

Test Mode	Tx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK/ $\pi$ /4DQPSK/ 8DPSK(DH1,DH3, DH5)	2402MHz ~2480 MHz	Channel 1	Channel 40	Channel79
		2402MHz	2441MHz	2480MHz

TX mode:The EUT transmitted the continuous signal at the specific channel(s).

Test mode:

Pre-scan under all rate at Lowest channel 1

Mode	GFSK		
packets	1-DH1	1-DH3	1-DH5
Power(dBm)	-0.125	0.001	0.039

Mode	$\pi$ /4DQPSK		
packets	2-DH1	2-DH3	2-DH5
Power(dBm)	0.245	1.250	1.370
Mode	8DPSK		
packets	3-DH1	3-DH3	3-DH5
Power(dBm)	0.125	1.214	1.673

Through Pre-scan, 1-DH5 packet the power is the worst case of GFSK, 2-DH5 packet the power is the worst case of  $\pi$ /4DQPSK, 3-DH5 packet the power is the worst case of 8DPSK.

## 6 General Information

### 6.1 Client Information

Applicant:	Beyond Screen Limited
Address of Applicant:	Suite 603, Building 6, Fulltech Plaza, No. 33 North Guangshun Street, Beijing, 100102, China
Manufacturer:	Beyond Screen Limited
Address of Manufacturer:	Suite 603, Building 6, Fulltech Plaza, No. 33 North Guangshun Street, Beijing, 100102, China
Factory:	Shenzhen RuiYi Electronic Science and Technology Co., Ltd.
Address of Factory:	4th Floor, No.1, Area A, Tangtou Third Industrial Park, Shiyang Village, Baoan District, Shenzhen City, Guangdong Province, 518108, China

### 6.2 General Description of EUT

Product Name:	Beyond Tablet Mini Edition
Model No.(EUT):	BYM002
Trade mark:	Beyond Screen
EUT Supports Radios application:	Wi-Fi: 802.11 b/g/n(20M)/n(40M) , 2412MHz-2462MHz BT:4.0 BT Dual mode, 2402MHz to 2480MHz NFC :13.56MHz0MHz
Power Supply:	DC 12V and AC 120V/60Hz
Sample Received Date:	Jun. 04, 2018
Sample tested Date:	Jun. 04, 2018 to Jun. 29, 2018

### 6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	3.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Hardware Version:	BY3.LRB_V1.0, BY3.TB_V0.3(manufacturer declare )
Software Version:	V1.0(manufacturer declare )
Test Power Grade:	N/A(manufacturer declare )
Test Software of EUT:	SoFia RFTestTool V1.1(manufacturer declare )
Antenna Type:	PCB Antenna
Antenna Gain:	1.5dBi
Power Source:	Battery: 8.4V, 8000mAh
Test Voltage:	DC 12V and AC 120V/60Hz
USB cable:	100cm

#### Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz

4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

#### 6.4 Description of Support Units

The EUT has been tested independently.

#### 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

#### 6.6 Deviation from Standards

None.

#### 6.7 Abnormalities from Standard Conditions

None.

#### 6.8 Other Information Requested by the Customer

None.

**6.9 Measurement Uncertainty (95% confidence levels, k=2)**

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

## 7 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-13-2018	03-12-2019
Signal Generator	Keysight	N5182B	MY53051549	03-13-2018	03-12-2019
High-pass filter	Sinoscite	FL3CX03WG 18NM12-0398-002	---	01-10-2018	01-09-2019
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-10-2018	01-09-2019
DC Power	Keysight	E3642A	MY54426035	03-13-2018	03-12-2019
power meter & power sensor	R&S	OSP120	101374	03-13-2018	03-12-2019
RF control unit	JS Tonscend	JS0806-2	158060006	03-13-2018	03-12-2019
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-13-2018	03-12-2019

### Conducted disturbance Test

Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100009	05-25-2018	05-24-2019
Temperature/Humidity Indicator	TAYLOR	1451	1905	05-02-2018	05-01-2019
LISN	schwarzbeck	NNLK8121	8121-529	05-11-2018	05-10-2019

<b>3M Semi/full-anechoic Chamber</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial Number</b>	<b>Cal. date (mm-dd-yyyy)</b>	<b>Cal. Due date (mm-dd-yyyy)</b>
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-04-2016	06-03-2019
TRILOG Broadband Antenna	SCHWARZBEC K	VULB9163	9163-617	03-29-2018	03-28-2019
Preamplifier	JS Tonscend	EMC051845 SE	980380	01-19-2018	01-18-2019
Horn Antenna	ETS-LINDGREN	3117	00057407	07-20-2015	07-18-2018
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018	05-10-2019
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Multi device Controller	maturo	NCD/070/107 11112	---	05-02-2018	05-01-2019
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-02-2018	05-01-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-10-2018	01-09-2019
Cable line	Fulai(6M)	SF106	5220/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5216/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5217/6A	01-10-2018	01-09-2019
High-pass filter	Sinoscite	FL3CX03WG 18NM12-0398-002	---	01-10-2018	01-09-2019

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

### Test Results List:

Test requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(1)	ANSI 63.10	20dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (a)(1)	ANSI 63.10	Carrier Frequencies Separation	PASS	Appendix B)
Part15C Section 15.247 (a)(1)	ANSI 63.10	Dwell Time	PASS	Appendix C)
Part15C Section 15.247 (b)	ANSI 63.10	Hopping Channel Number	PASS	Appendix D)
Part15C Section 15.247 (b)(1)	ANSI 63.10	Conducted Peak Output Power	PASS	Appendix E)
Part15C Section 15.247(d)	ANSI 63.10	Band-edge for RF Conducted Emissions	PASS	Appendix F)
Part15C Section 15.247(d)	ANSI 63.10	RF Conducted Spurious Emissions	PASS	Appendix G)
Part15C Section 15.247 (a)(1)	ANSI 63.10	Pseudorandom Frequency Hopping Sequence	PASS	Appendix H)
Part15C Section 15.203/15.247 (c)	ANSI 63.10	Antenna Requirement	PASS	Appendix I)
Part15C Section 15.207	ANSI 63.10	AC Power Line Conducted Emission	PASS	Appendix J)
Part15C Section 15.205/15.209	ANSI 63.10	Restricted bands around fundamental frequency (Radiated) Emission	PASS	Appendix K)
Part15C Section 15.205/15.209	ANSI 63.10	Radiated Spurious Emissions	PASS	Appendix L)

## Appendix A): 20dB Occupied Bandwidth

### Test Result

Mode	Channel.	20dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	Remark
GFSK	LCH	1.030	0.91768	PASS	Peak detector
GFSK	MCH	1.031	0.91702	PASS	
GFSK	HCH	1.033	0.91994	PASS	
$\pi/4$ DQPSK	LCH	1.287	1.1792	PASS	
$\pi/4$ DQPSK	MCH	1.289	1.1811	PASS	
$\pi/4$ DQPSK	HCH	1.289	1.1836	PASS	
8DPSK	LCH	1.290	1.1771	PASS	
8DPSK	MCH	1.290	1.1773	PASS	
8DPSK	HCH	1.290	1.1799	PASS	

### Test Graph



π/4DQPSK/LCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.402000000 GHz</p> <p>Ref Offset 19.08 dB Ref 19.08 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.402 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.1792 MHz</p> <p>Total Power 7.88 dBm</p> <p>Transmit Freq Error 149.63 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 1.287 MHz x dB -20.00 dB</p>
π/4DQPSK/MCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.441000000 GHz</p> <p>Ref Offset 19.02 dB Ref 19.02 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.1811 MHz</p> <p>Total Power 8.49 dBm</p> <p>Transmit Freq Error 150.87 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 1.289 MHz x dB -20.00 dB</p>
π/4DQPSK/HCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.480000000 GHz</p> <p>Ref Offset 19.05 dB Ref 19.05 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.48 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.2 ms</p> <p>Occupied Bandwidth 1.1836 MHz</p> <p>Total Power 9.21 dBm</p> <p>Transmit Freq Error 153.93 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 1.289 MHz x dB -20.00 dB</p>

8DPSK/LCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.402000000 GHz</p> <p>Ref Offset: 19.08 dB Ref: 19.08 dBm</p> <p>Occupied Bandwidth: 1.1771 MHz</p> <p>Total Power: 7.86 dBm</p> <p>Transmit Freq Error: 152.79 kHz</p> <p>x dB Bandwidth: 1.290 MHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -20.00 dB</p>
8DPSK/MCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.441000000 GHz</p> <p>Ref Offset: 19.02 dB Ref: 19.02 dBm</p> <p>Occupied Bandwidth: 1.1773 MHz</p> <p>Total Power: 8.42 dBm</p> <p>Transmit Freq Error: 155.05 kHz</p> <p>x dB Bandwidth: 1.290 MHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -20.00 dB</p>
8DPSK/HCH	<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.480000000 GHz</p> <p>Ref Offset: 19.05 dB Ref: 19.05 dBm</p> <p>Occupied Bandwidth: 1.1799 MHz</p> <p>Total Power: 9.18 dBm</p> <p>Transmit Freq Error: 156.86 kHz</p> <p>x dB Bandwidth: 1.290 MHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -20.00 dB</p>

## Appendix B): Carrier Frequency Separation

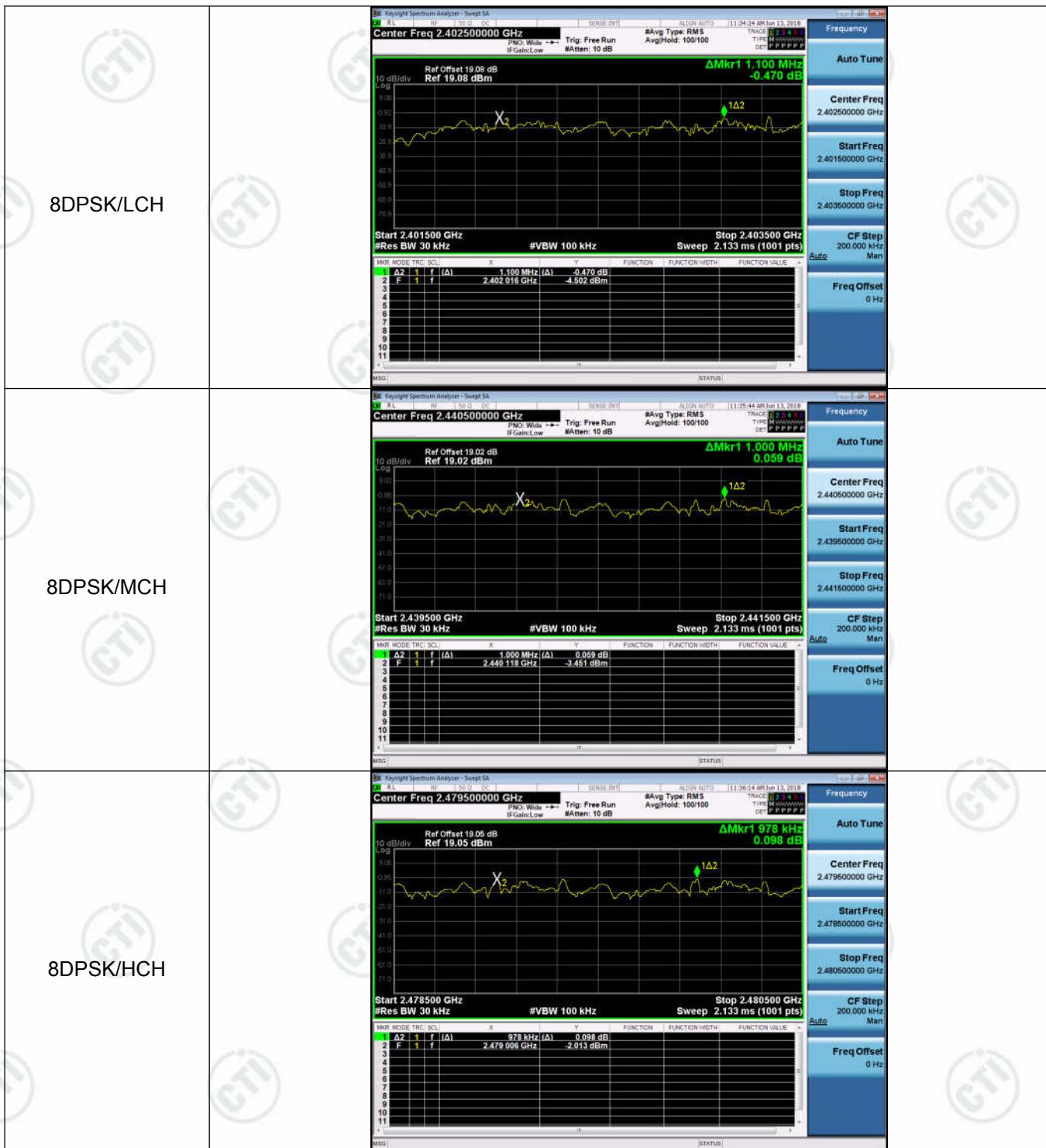
**Result Table**

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.026	PASS
GFSK	MCH	0.922	PASS
GFSK	HCH	0.984	PASS
$\pi/4$ DQPSK	LCH	0.994	PASS
$\pi/4$ DQPSK	MCH	1.124	PASS
$\pi/4$ DQPSK	HCH	0.994	PASS
8DPSK	LCH	1.100	PASS
8DPSK	MCH	1.000	PASS
8DPSK	HCH	0.978	PASS

### Test Graph





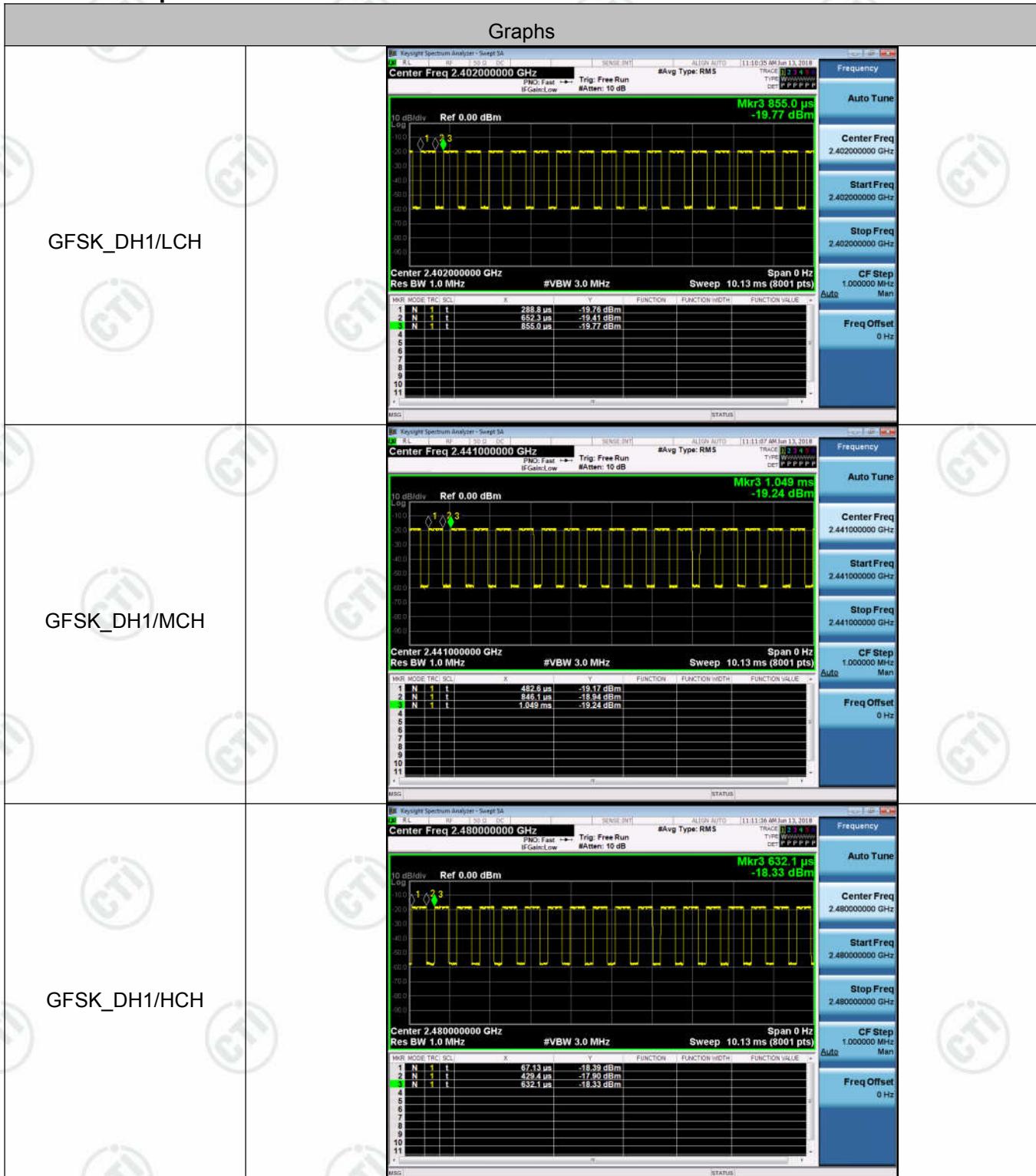


## Appendix C): Dwell Time

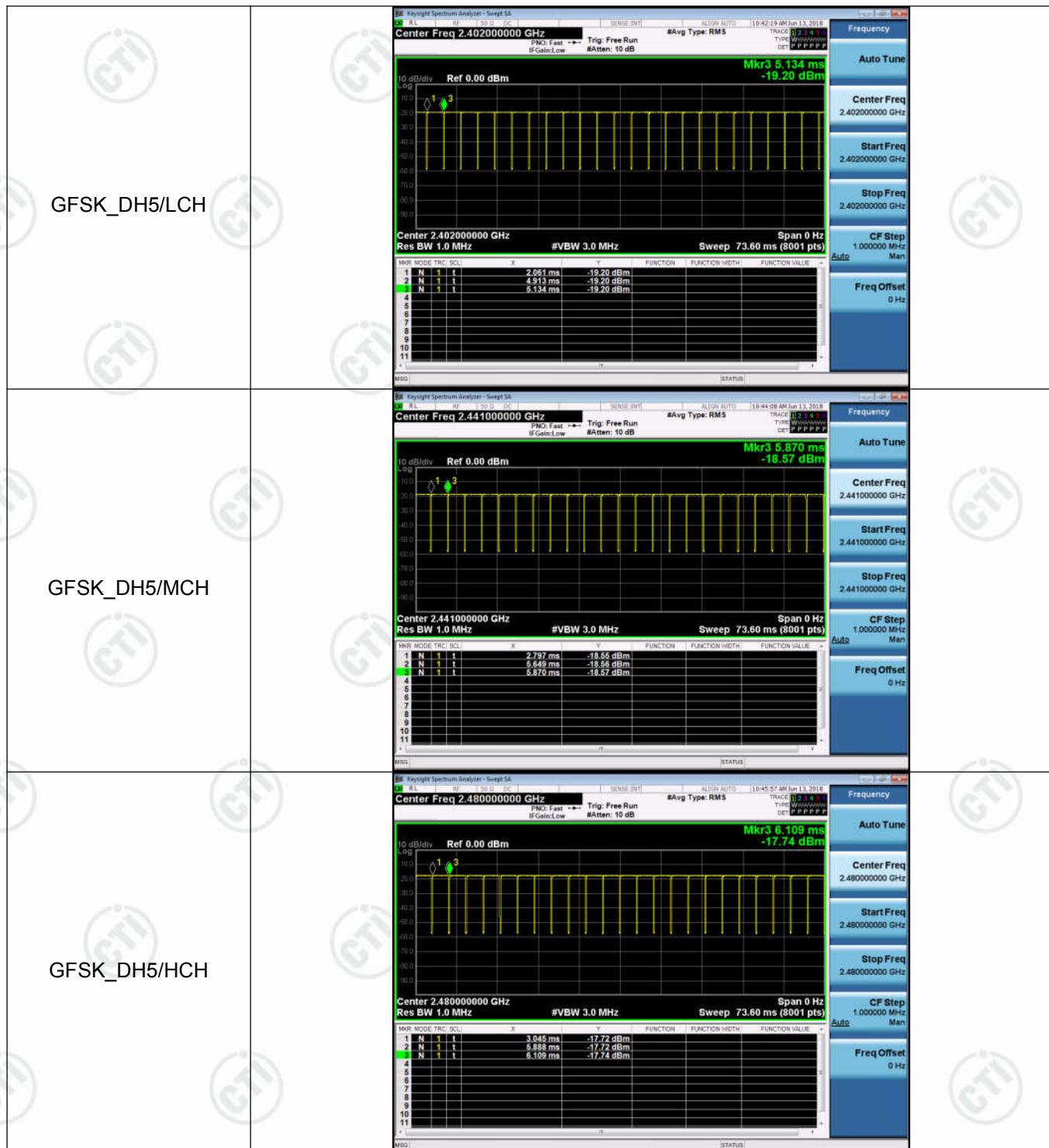
**Result Table**

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
GFSK	DH1	LCH	0.363533	320	0.116	0.64	PASS
GFSK	DH1	MCH	0.363533	320	0.116	0.64	PASS
GFSK	DH1	HCH	0.3622667	320	0.116	0.64	PASS
GFSK	DH3	LCH	1.6188	160	0.259	0.89	PASS
GFSK	DH3	MCH	1.6188	160	0.259	0.89	PASS
GFSK	DH3	HCH	1.62006	160	0.259	0.89	PASS
GFSK	DH5	LCH	2.852	106.7	0.304	0.93	PASS
GFSK	DH5	MCH	2.852	106.7	0.304	0.93	PASS
GFSK	DH5	HCH	2.8428	106.7	0.303	0.93	PASS

### Test Graph



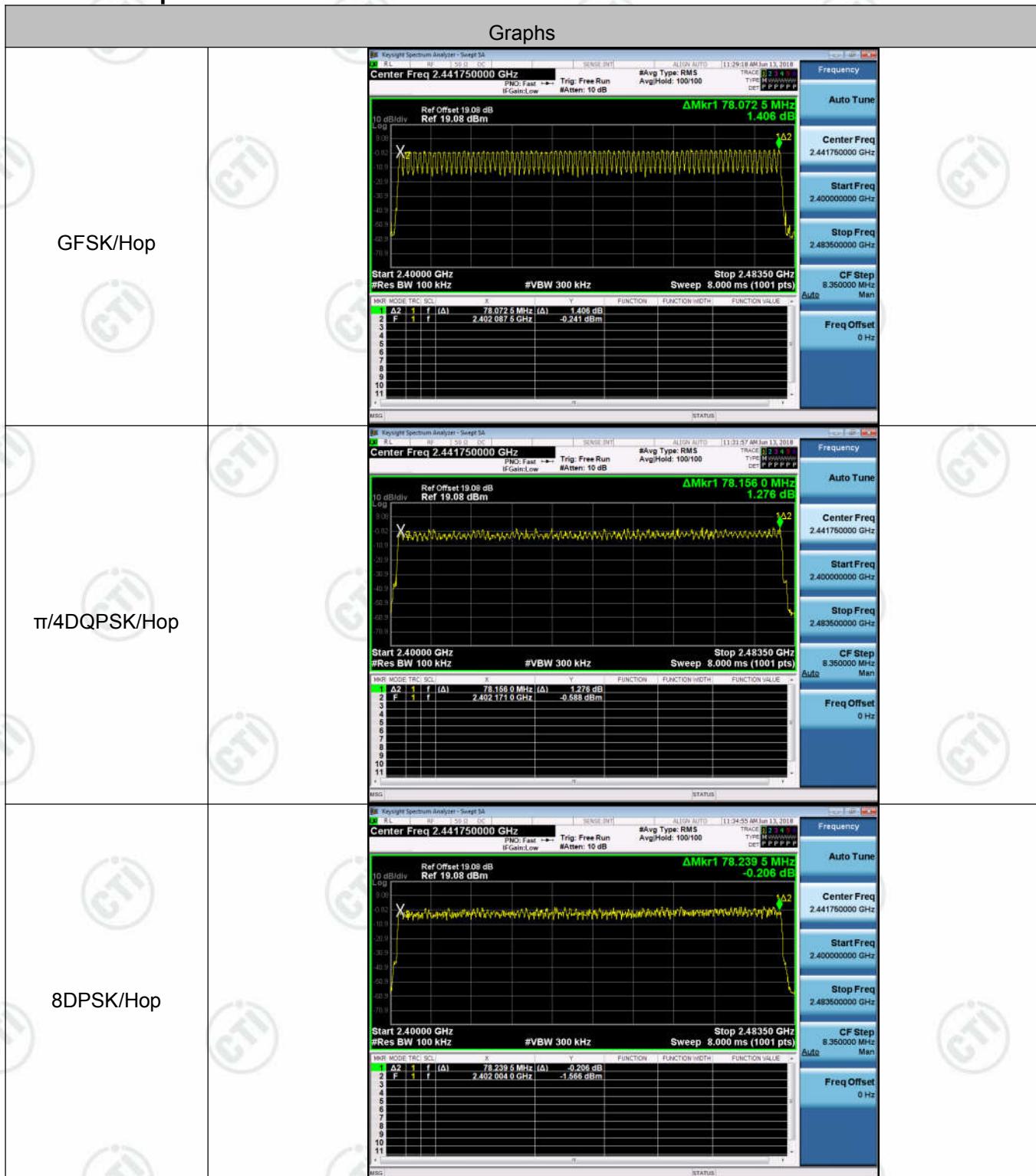




**Appendix D): Hopping Channel Number****Result Table**

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS
$\pi/4$ DQPSK	Hop	79	PASS
8DPSK	Hop	79	PASS

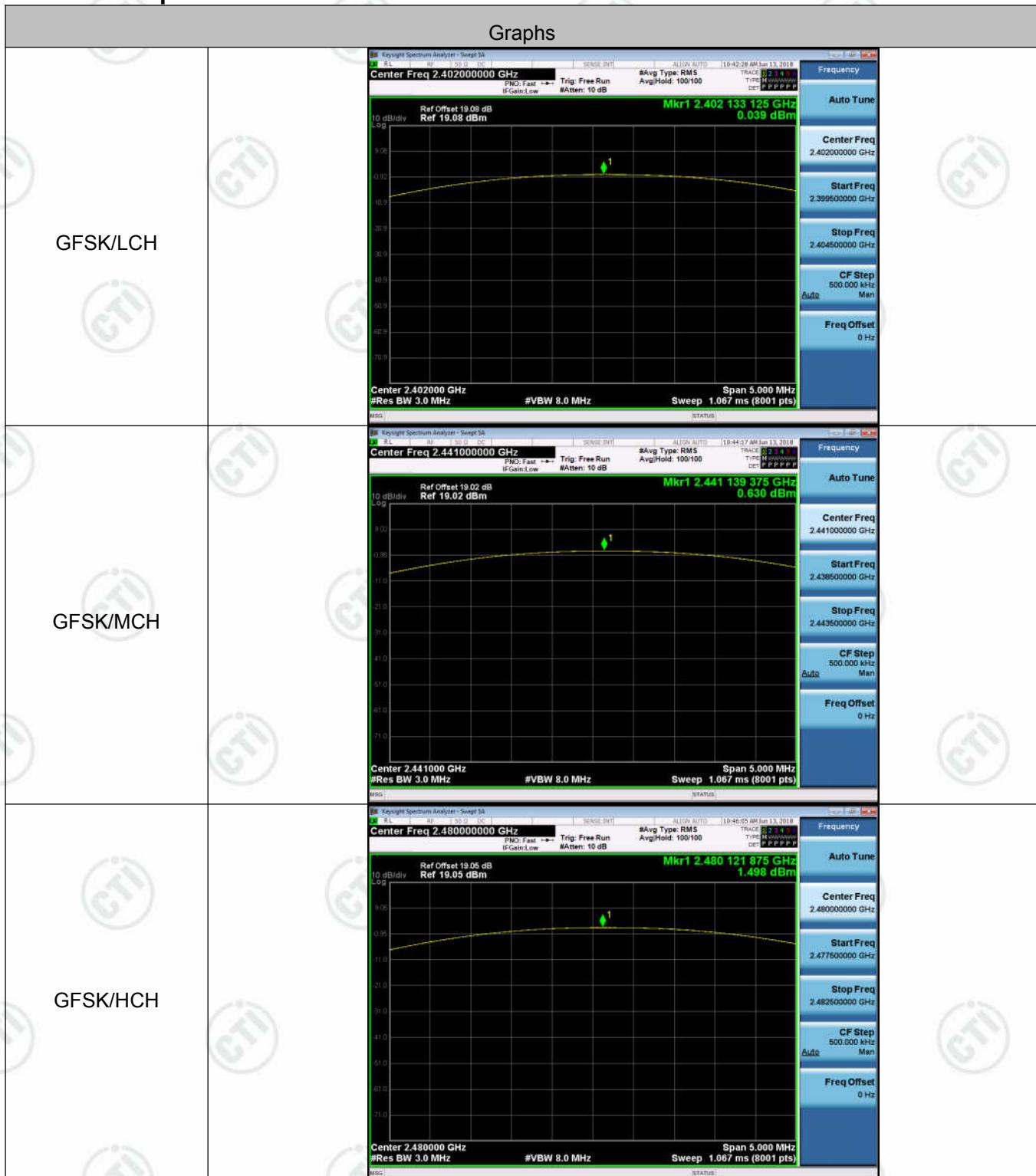
### Test Graph

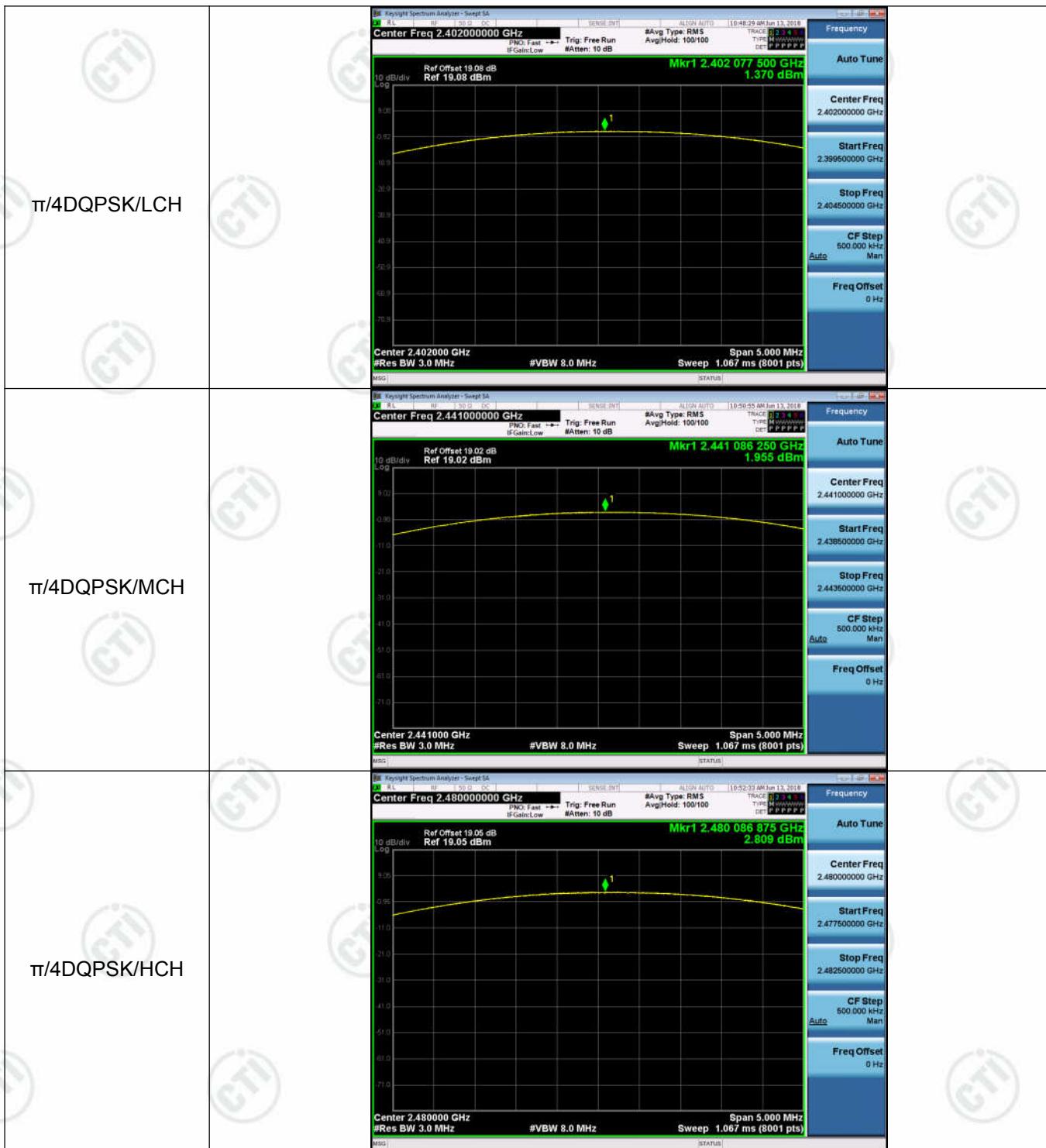


## Appendix E): Conducted Peak Output Power Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	0.039	PASS
GFSK	MCH	0.630	PASS
GFSK	HCH	1.498	PASS
$\pi/4$ DQPSK	LCH	1.370	PASS
$\pi/4$ DQPSK	MCH	1.955	PASS
$\pi/4$ DQPSK	HCH	2.809	PASS
8DPSK	LCH	1.673	PASS
8DPSK	MCH	2.307	PASS
8DPSK	HCH	3.178	PASS

### Test Graph





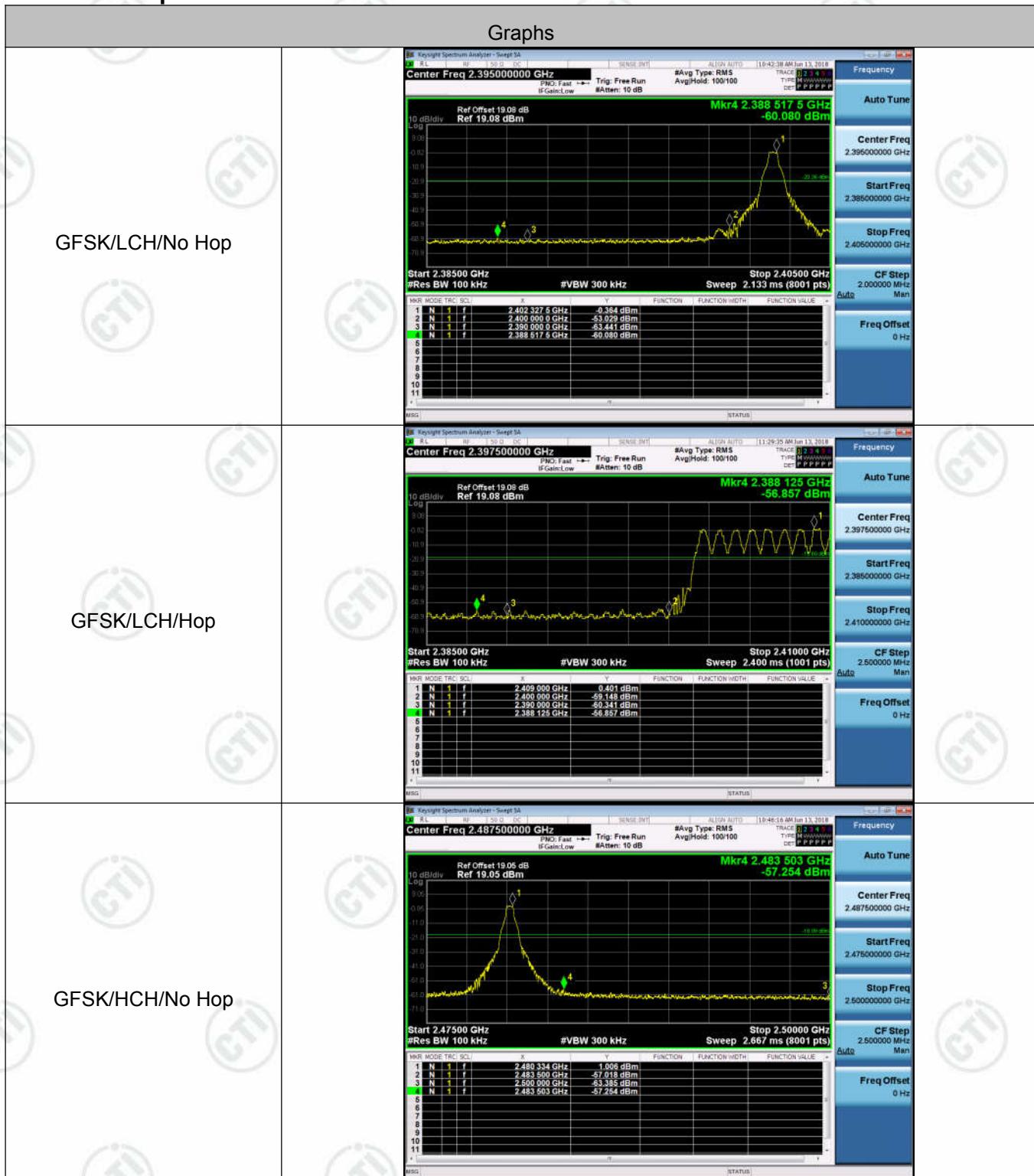


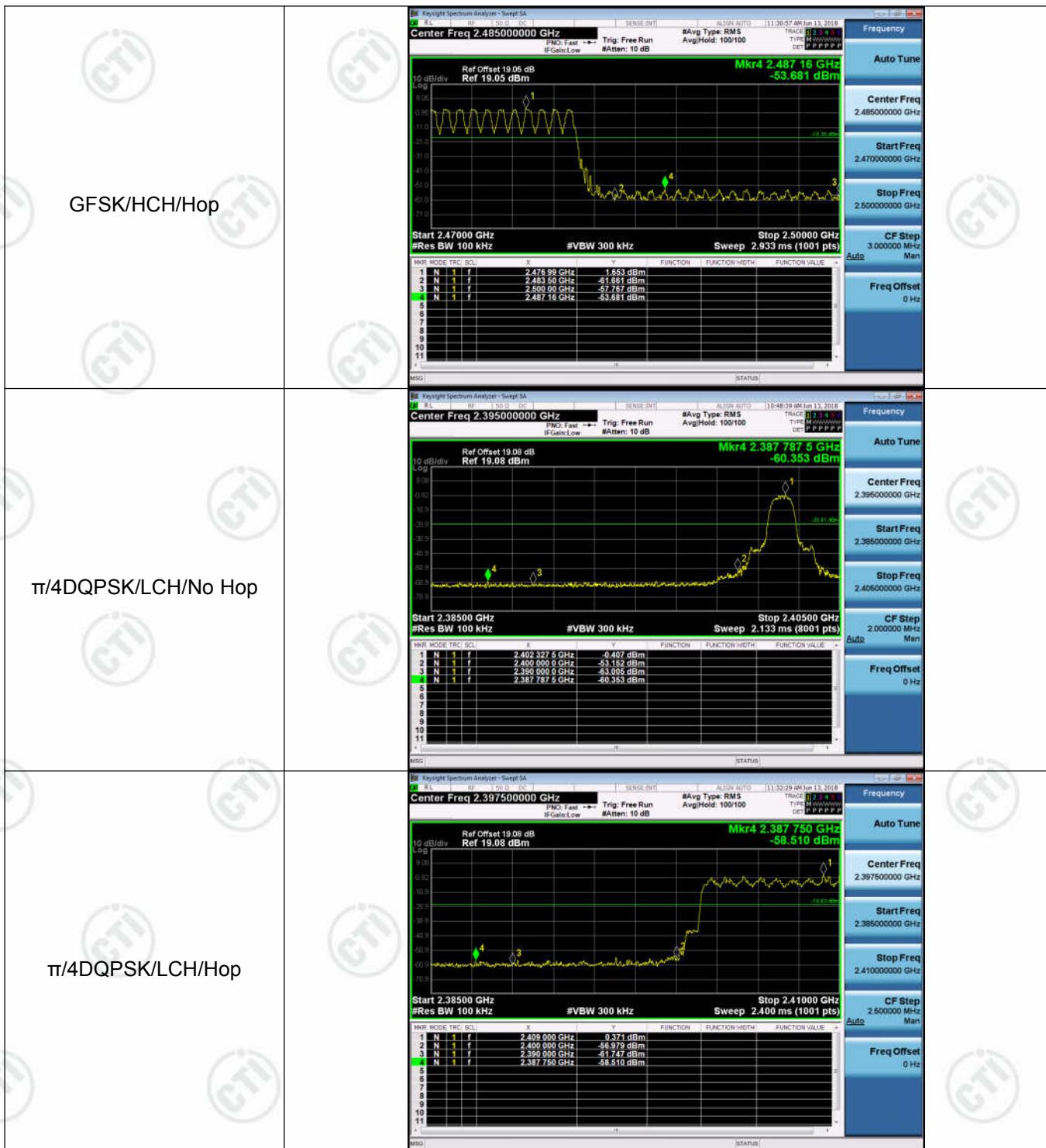
## Appendix F): Band-edge for RF Conducted Emissions

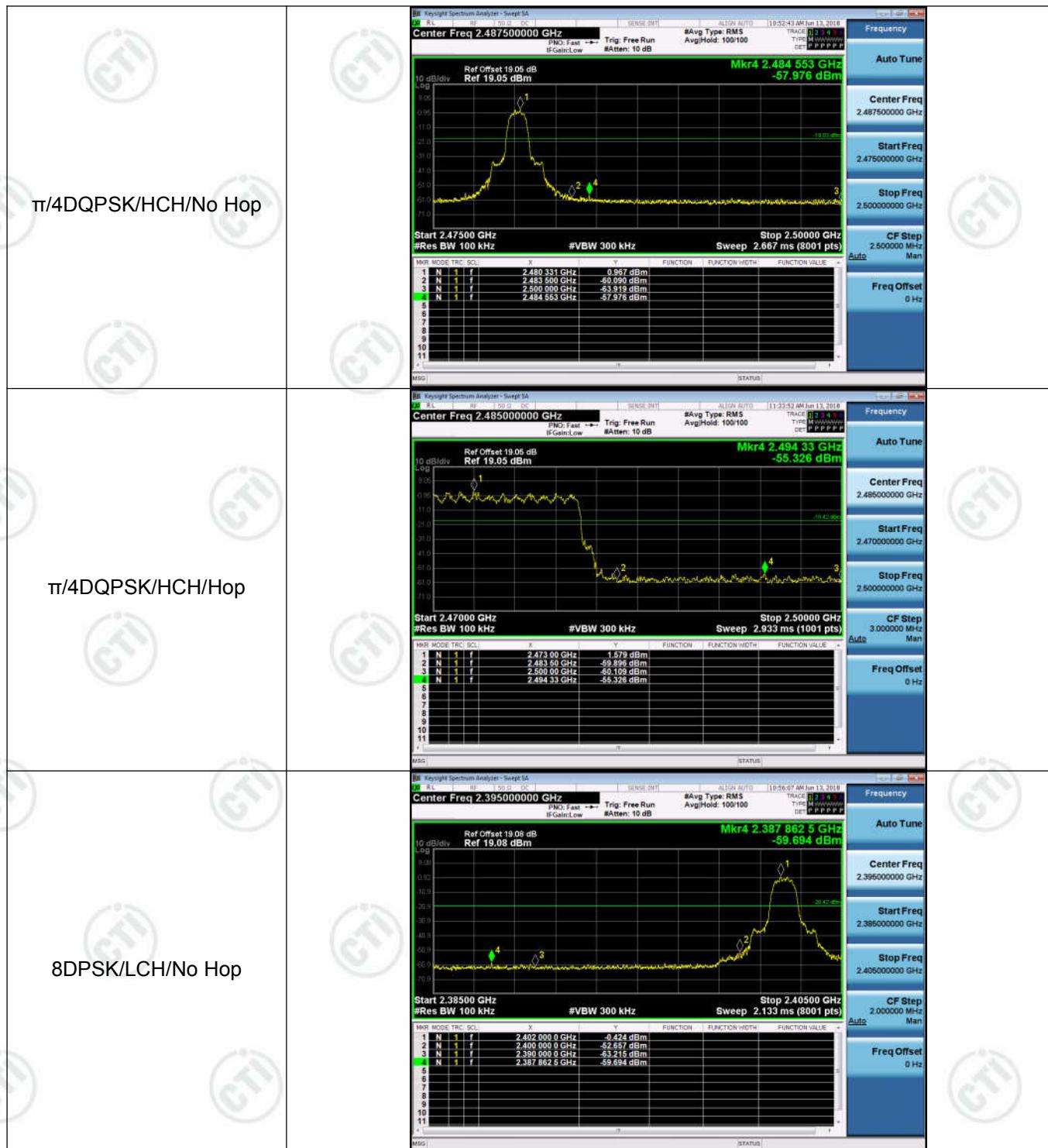
**Result Table**

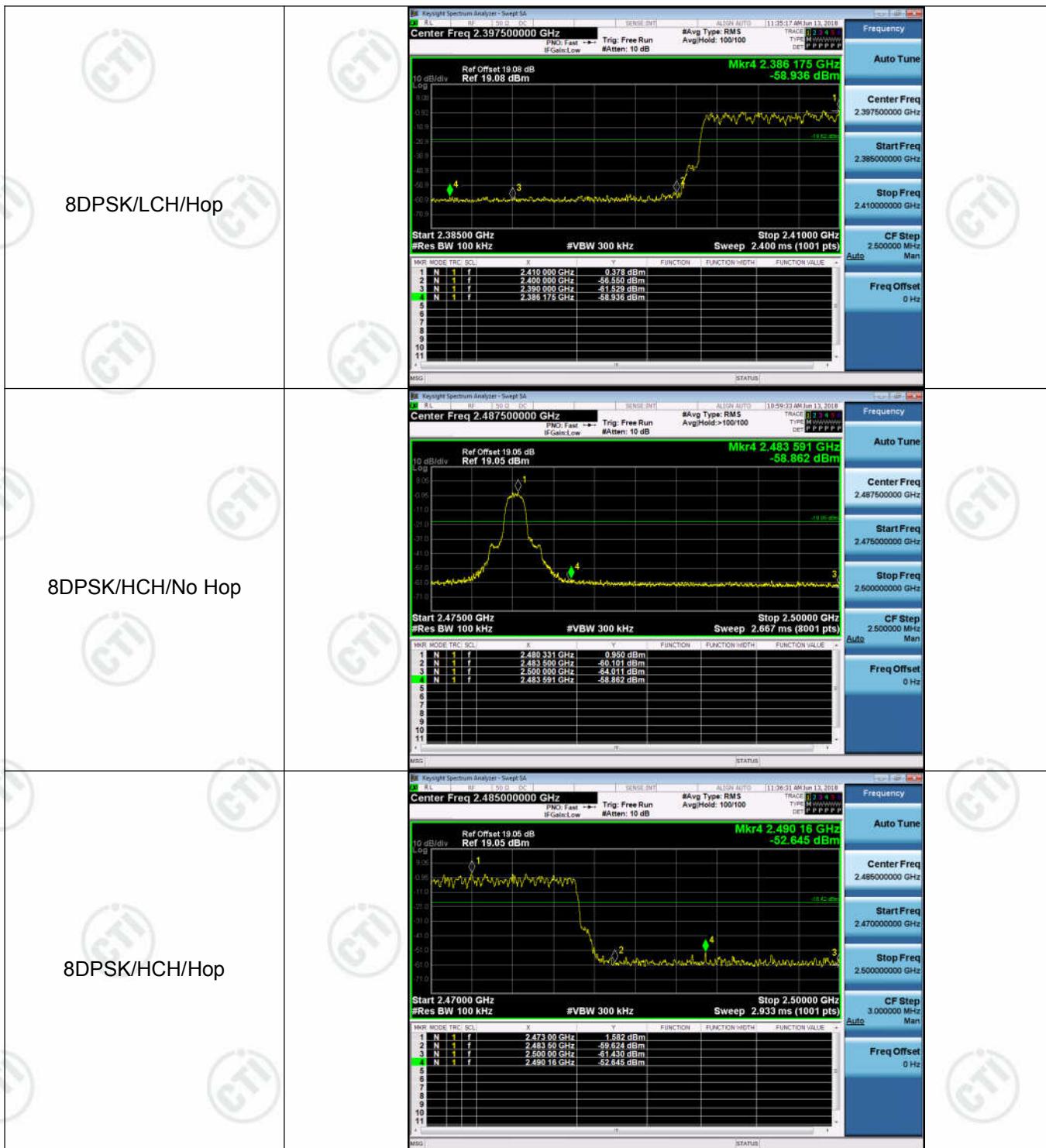
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-0.364	Off	-60.080	-20.36	PASS
			0.401	On	-56.857	-19.6	PASS
GFSK	HCH	2480	1.006	Off	-57.254	-18.99	PASS
			1.653	On	-53.681	-18.35	PASS
$\pi/4$ DQPSK	LCH	2402	-0.407	Off	-60.353	-20.41	PASS
			0.371	On	-58.510	-19.63	PASS
$\pi/4$ DQPSK	HCH	2480	0.967	Off	-57.976	-19.03	PASS
			1.579	On	-55.326	-18.42	PASS
8DPSK	LCH	2402	-0.424	Off	-59.694	-20.42	PASS
			0.378	On	-58.936	-19.62	PASS
8DPSK	HCH	2480	0.950	Off	-58.862	-19.05	PASS
			1.582	On	-52.645	-18.42	PASS

### Test Graph







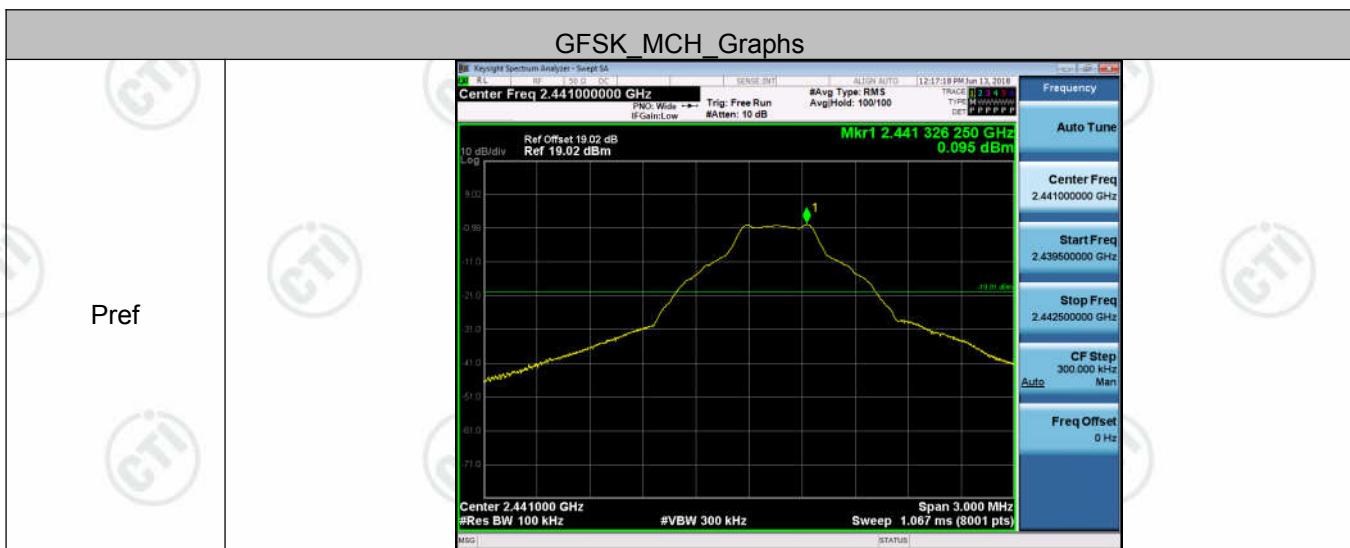
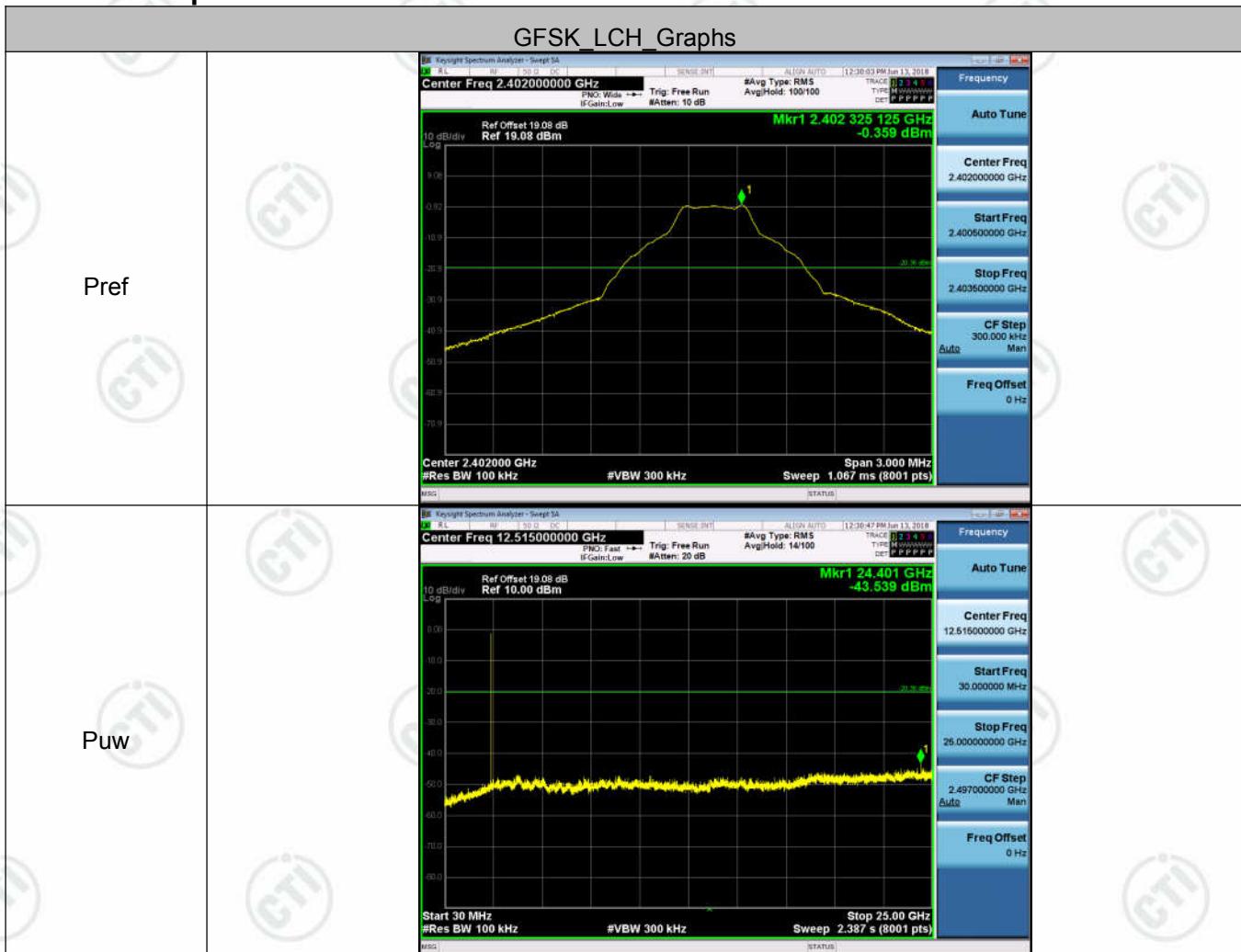


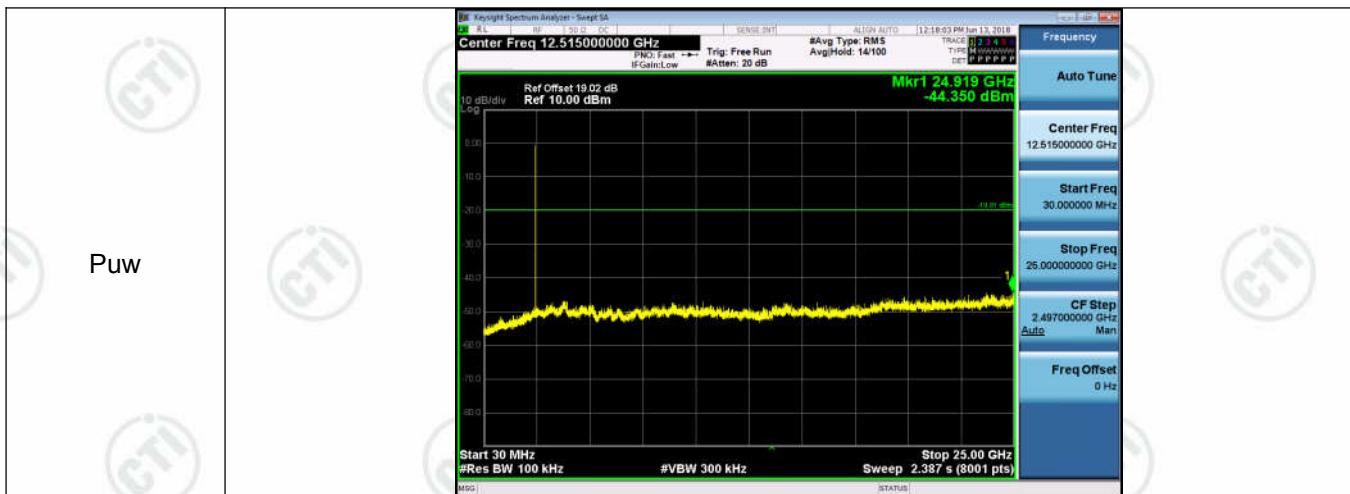
## Appendix G): RF Conducted Spurious Emissions

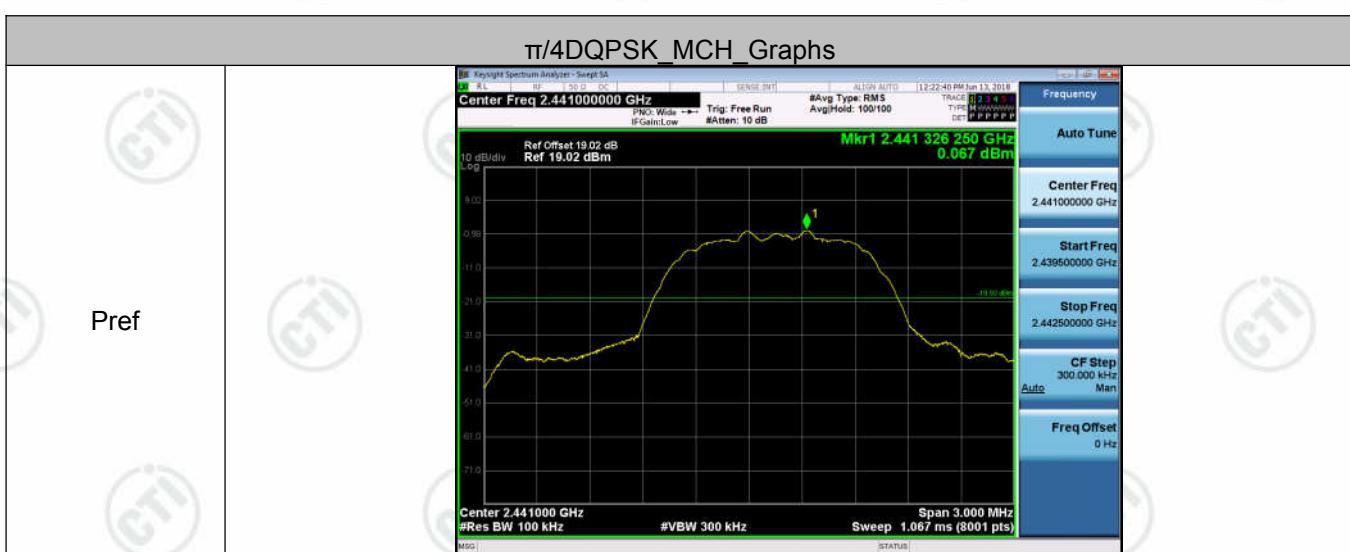
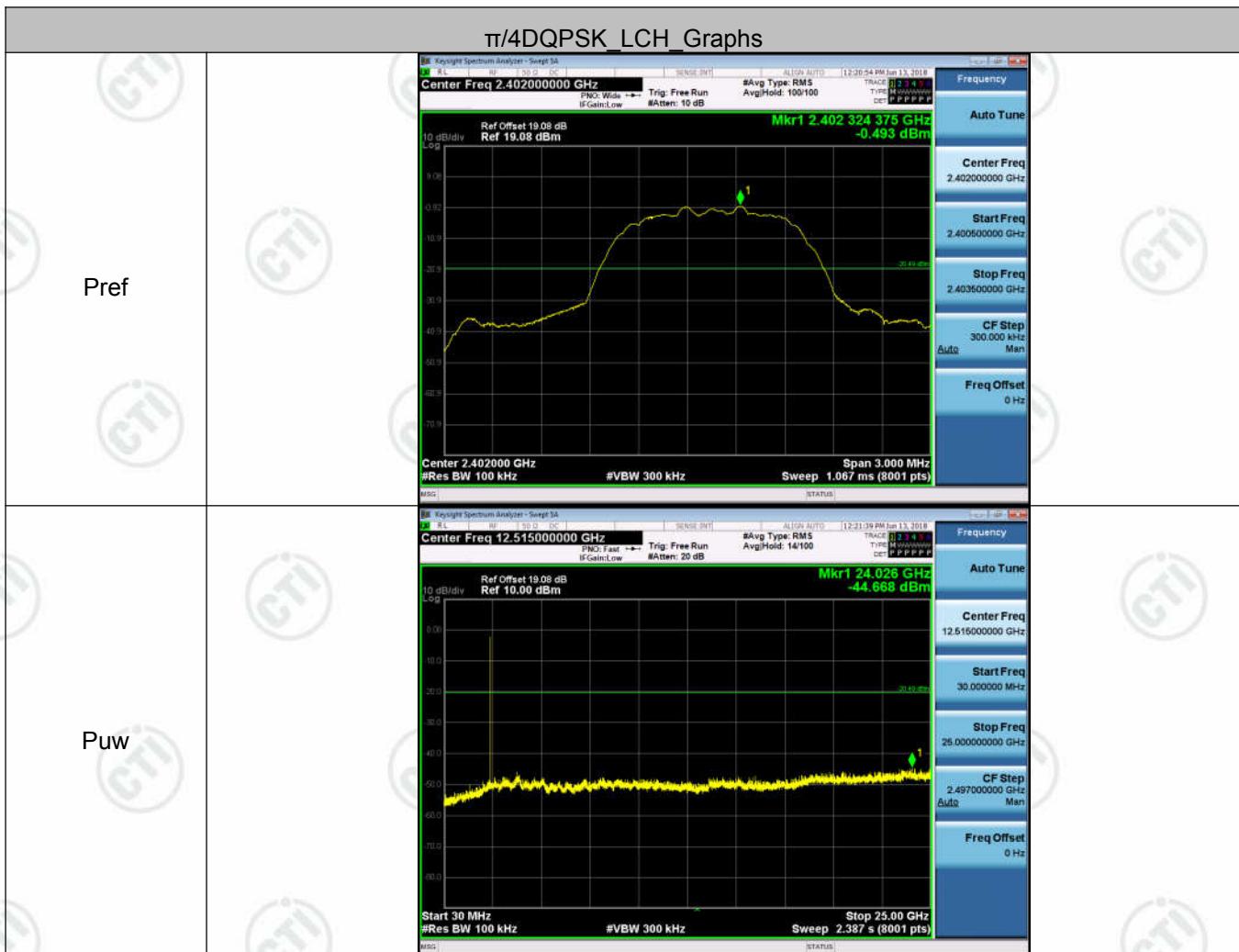
**Result Table**

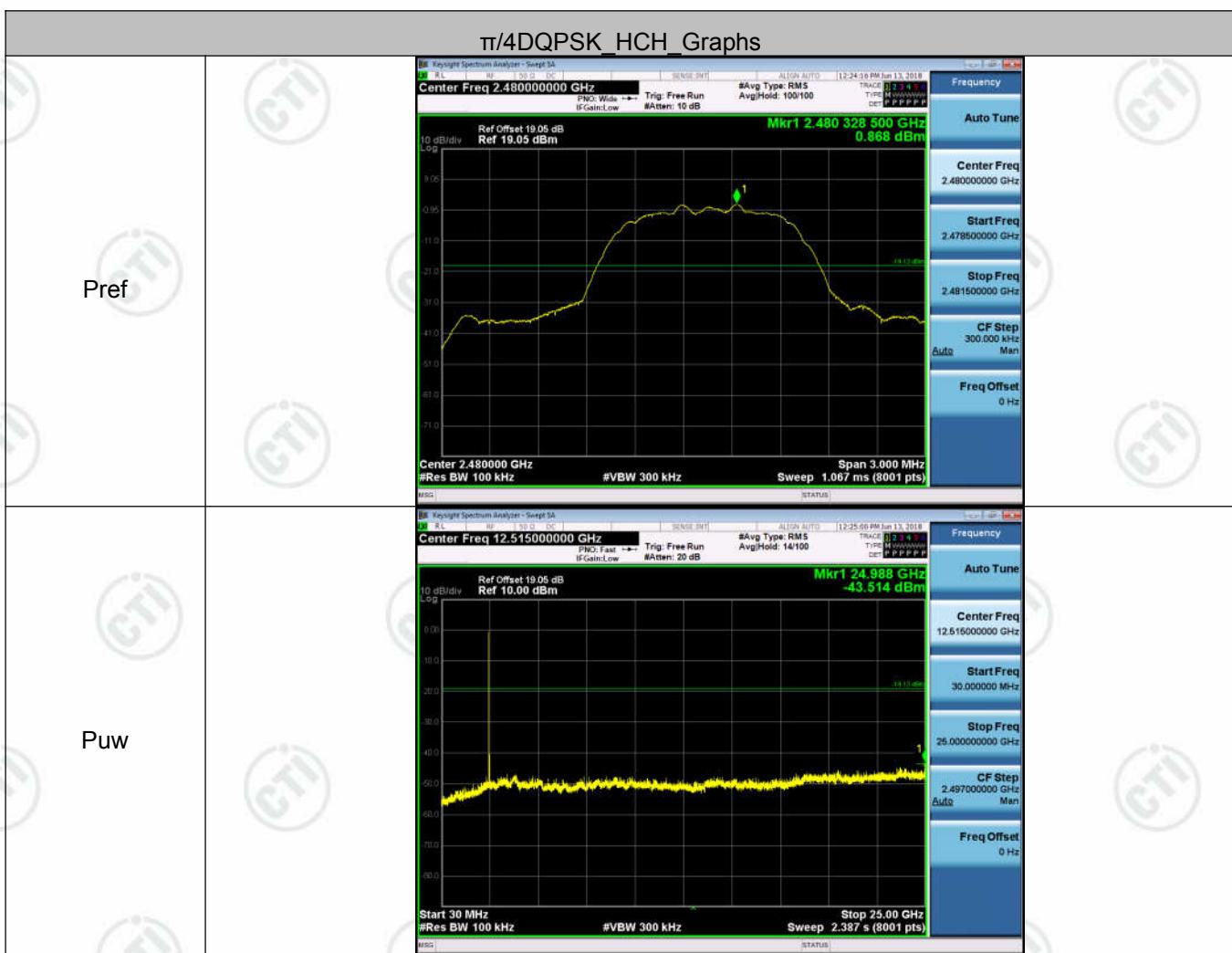
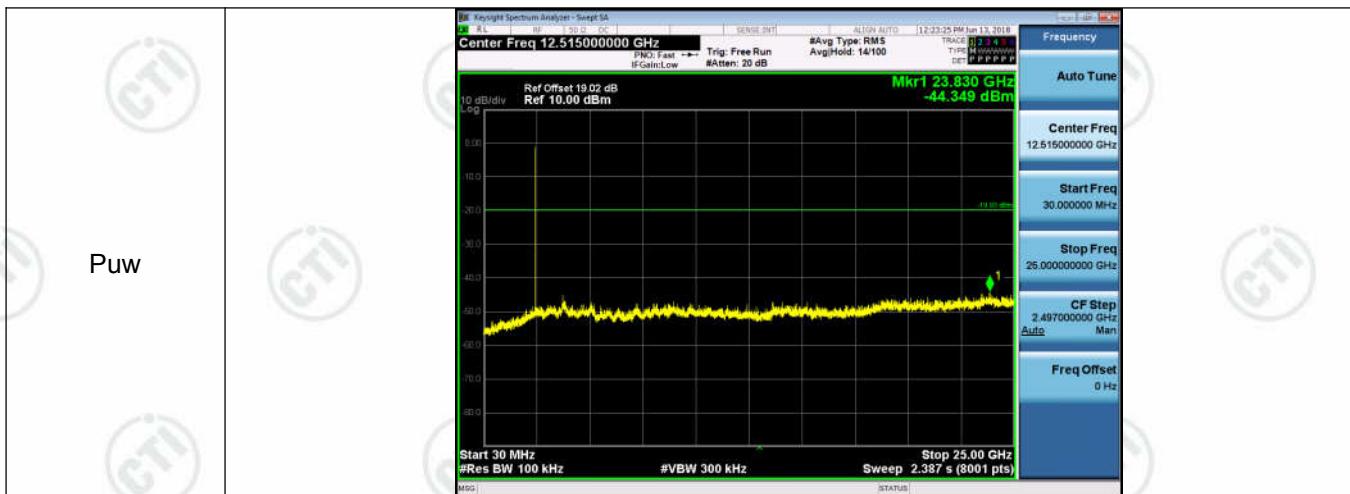
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-0.359	<Limit	PASS
GFSK	MCH	0.095	<Limit	PASS
GFSK	HCH	0.896	<Limit	PASS
$\pi/4$ DQPSK	LCH	-0.493	<Limit	PASS
$\pi/4$ DQPSK	MCH	0.067	<Limit	PASS
$\pi/4$ DQPSK	HCH	0.868	<Limit	PASS
8DPSK	LCH	-0.49	<Limit	PASS
8DPSK	MCH	0.083	<Limit	PASS
8DPSK	HCH	0.887	<Limit	PASS

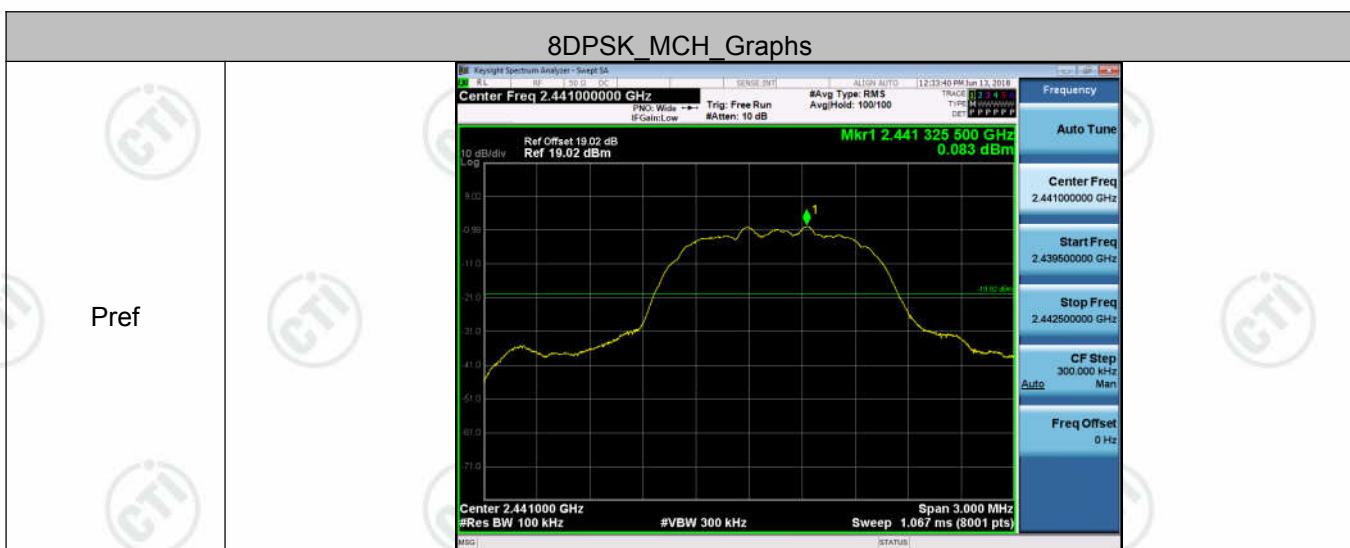
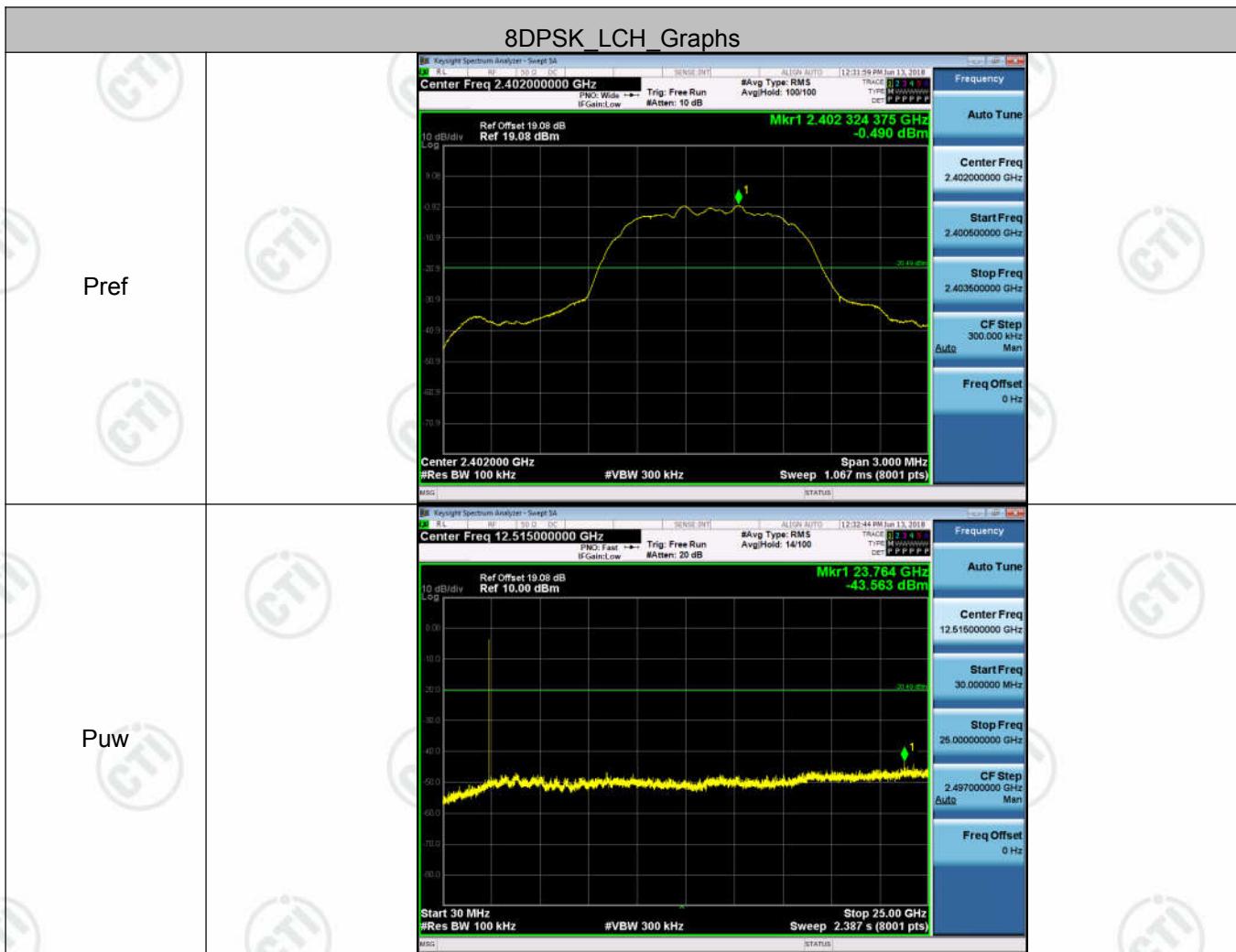
### Test Graph

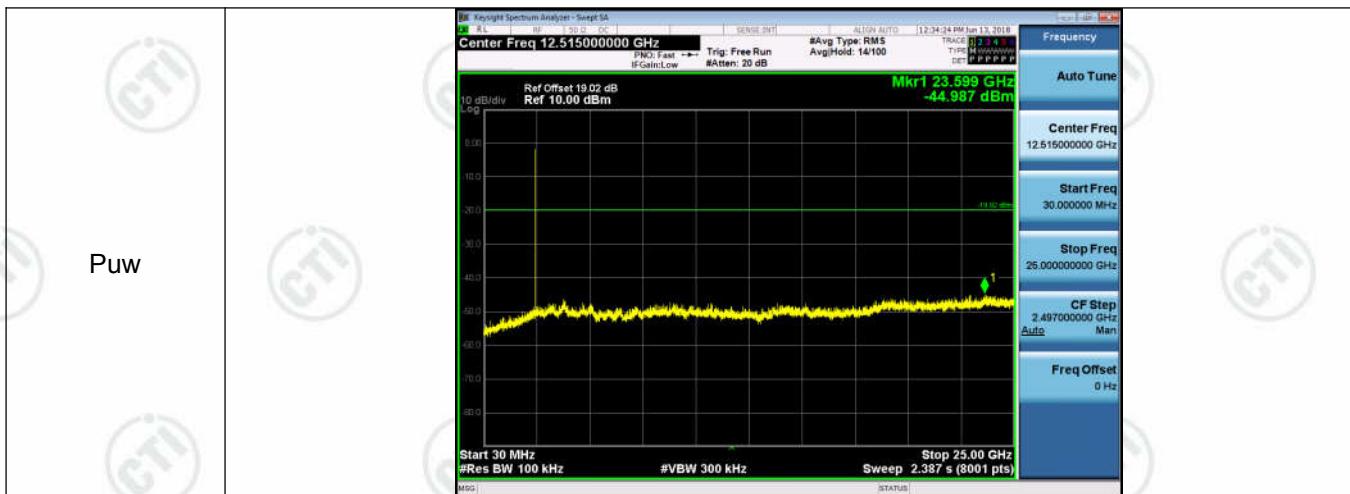




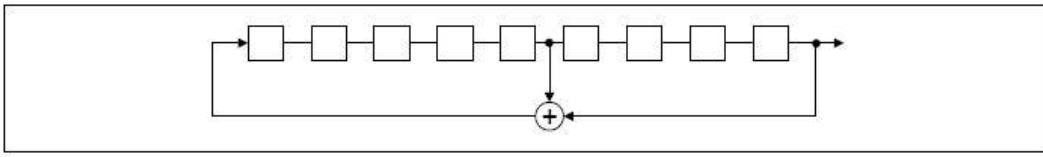








## Appendix H): Pseudorandom Frequency Hopping Sequence

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1) requirement:								
	<p>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.</p> <p>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.</p> <p>The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom 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 hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>								
<b>EUT Pseudorandom Frequency Hopping Sequence</b>									
<p>The pseudorandom 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; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"> <li>Number of shift register stages: 9</li> <li>Length of pseudo-random sequence: <math>2^9 - 1 = 511</math> bits</li> <li>Longest sequence of zeros: 8 (non-inverted signal)</li> </ul>									
									
<p><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">20 62 46 77</td> <td style="width: 25%;">7 64</td> <td style="width: 25%;">8 73</td> <td style="width: 25%;">16 75 1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Each frequency used equally on the average by each transmitter.</p> <p>The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p> <p>The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.</p>		20 62 46 77	7 64	8 73	16 75 1				
20 62 46 77	7 64	8 73	16 75 1						

## Appendix I): Antenna Requirement

### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.



## Appendix J): AC Power Line Conducted Emission

Test Procedure:	<p>Test frequency range :150KHz-30MHz</p> <p>1)The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</p> <p>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</p>														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.</p> <p>NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dB $\mu$ V)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dB $\mu$ V)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

### Measurement Data

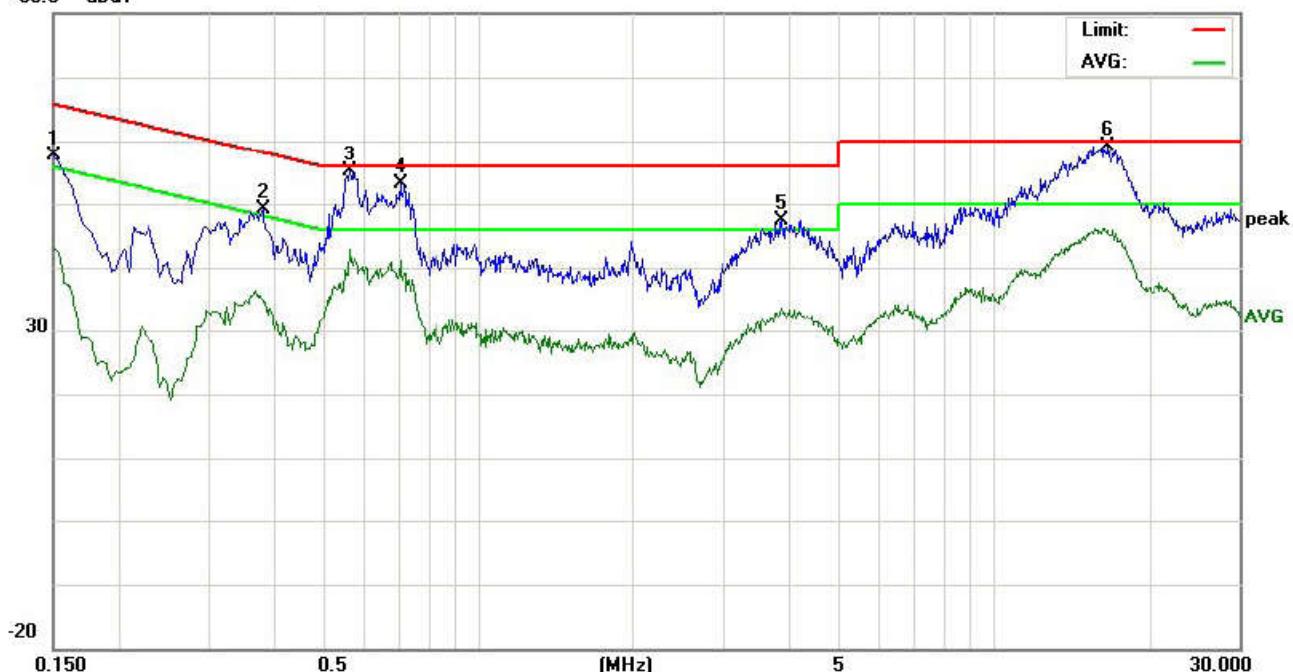
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

GE0151U-050300

Live line:

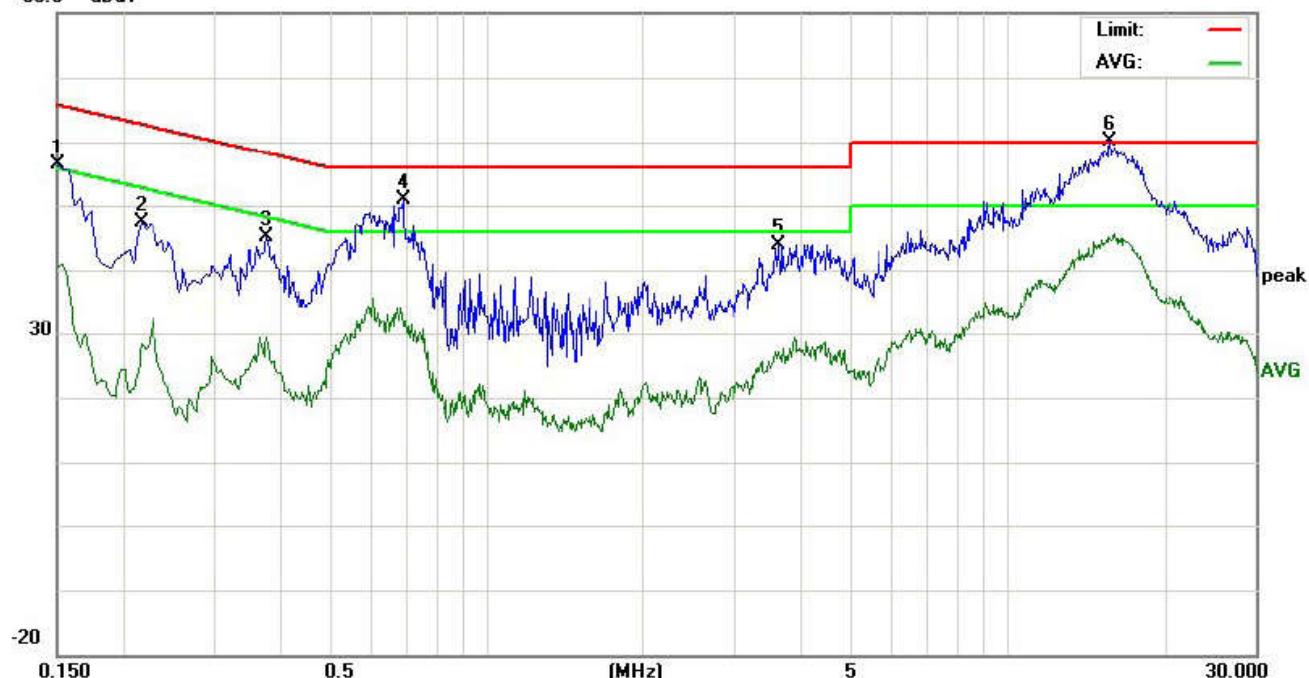
80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV)			Limit (dBuV)			Margin (dB)		
		Peak	QP	AVG	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F	Comment		
1	0.1499	47.82	44.32	33.34	9.77	57.59	54.09	43.11	66.00	56.00	-11.91	-12.89	P			
2	0.3820	39.37	36.89	25.11	9.76	49.13	46.65	34.87	58.23	48.23	-11.58	-13.36	P			
3	0.5660	45.43	41.78	30.82	9.74	55.17	51.52	40.56	56.00	46.00	-4.48	-5.44	P			
4	0.7060	43.30	38.42	28.31	9.75	53.05	48.17	38.06	56.00	46.00	-7.83	-7.94	P			
5	3.8860	37.80	34.58	23.99	9.66	47.46	44.24	33.65	56.00	46.00	-11.76	-12.35	P			
6	16.6980	49.10	42.85	33.74	10.03	59.13	52.88	43.77	60.00	50.00	-7.12	-6.23	P			

Neutral line:

80.0 dBuV

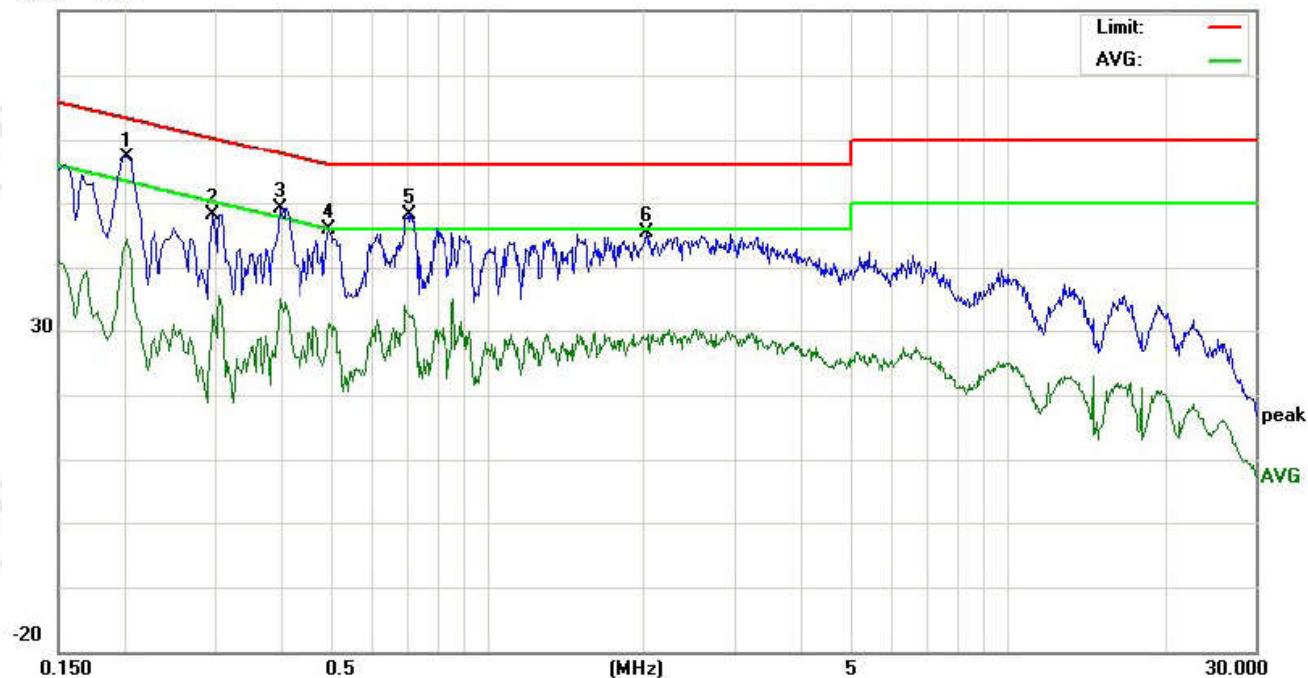


No.	Freq.	Reading_Level (dBuV)				Correct Factor		Measurement (dBuV)				Limit (dBuV)		Margin (dB)	
		MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1500	46.57	43.68	30.80	9.77	56.34	53.45	40.57	65.99	55.99	-12.54	-15.42	P		
2	0.2180	37.64	34.58	18.63	9.72	47.36	44.30	28.35	62.89	52.89	-18.59	-24.54	P		
3	0.3780	35.45	32.56	19.52	9.76	45.21	42.32	29.28	58.32	48.32	-16.00	-19.04	P		
4	0.6900	41.06	38.55	22.05	9.75	50.81	48.30	31.80	56.00	46.00	-7.70	-14.20	P		
5	3.6500	34.28	31.59	17.52	9.66	43.94	41.25	27.18	56.00	46.00	-14.75	-18.82	P		
6	15.7940	50.18	43.14	33.39	10.02	60.20	53.16	43.41	60.00	50.00	-6.84	-6.59	P		

QC01

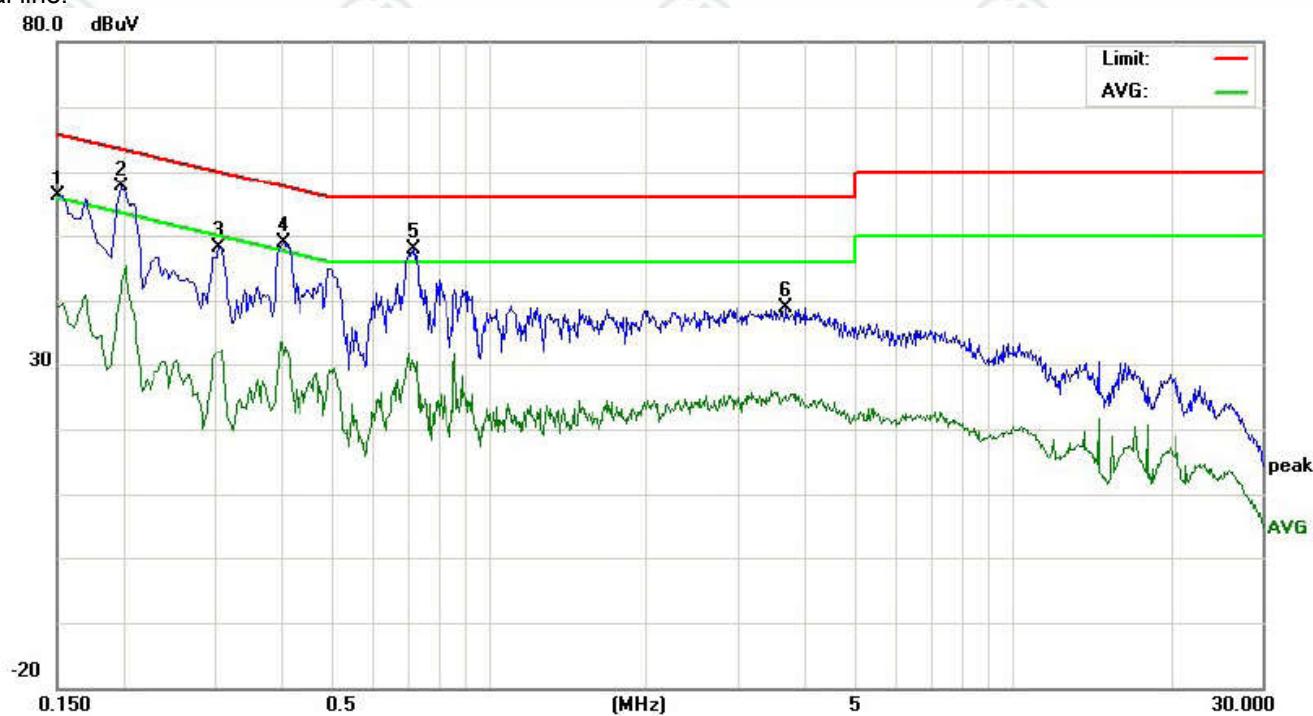
Live line:

80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV)			Limit (dBuV)			Margin (dB)		
		Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment		
1	0.2020	47.46	44.26	34.75	9.71	57.17	53.97	44.46	63.52	53.52	-9.55	-9.06	P			
2	0.2980	38.33	35.28	22.85	9.78	48.11	45.06	32.63	60.30	50.30	-15.24	-17.67	P			
3	0.3980	39.49	36.47	25.39	9.75	49.24	46.22	35.14	57.89	47.89	-11.67	-12.75	P			
4	0.4980	36.08	33.26	21.43	9.71	45.79	42.97	31.14	56.03	46.03	-13.06	-14.89	P			
5	0.7100	38.39	35.78	22.62	9.75	48.14	45.53	32.37	56.00	46.00	-10.47	-13.63	P			
6	2.0260	35.67	32.56	18.95	9.72	45.39	42.28	28.67	56.00	46.00	-13.72	-17.33	P			

Neutral line:



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit dBuV	Margin (dB)			P/F	Comment
		Peak	QP	Avg		peak	QP	Avg		QP	Avg	QP	Avg	
1	0.1500	46.39	43.26	29.30	9.77	56.16	53.03	39.07	65.99	55.99	-12.96	-16.92	P	
2	0.1980	47.80	44.58	32.06	9.71	57.51	54.29	41.77	63.69	53.69	-9.40	-11.92	P	
3	0.3060	38.32	35.49	22.08	9.78	48.10	45.27	31.86	60.08	50.08	-14.81	-18.22	P	
4	0.4060	39.08	35.69	21.52	9.75	48.83	45.44	31.27	57.73	47.73	-12.29	-16.46	P	
5	0.7180	38.14	35.24	20.25	9.75	47.89	44.99	30.00	56.00	46.00	-11.01	-16.00	P	
6	3.7140	29.26	26.48	15.02	9.66	38.92	36.14	24.68	56.00	46.00	-19.86	-21.32	P	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

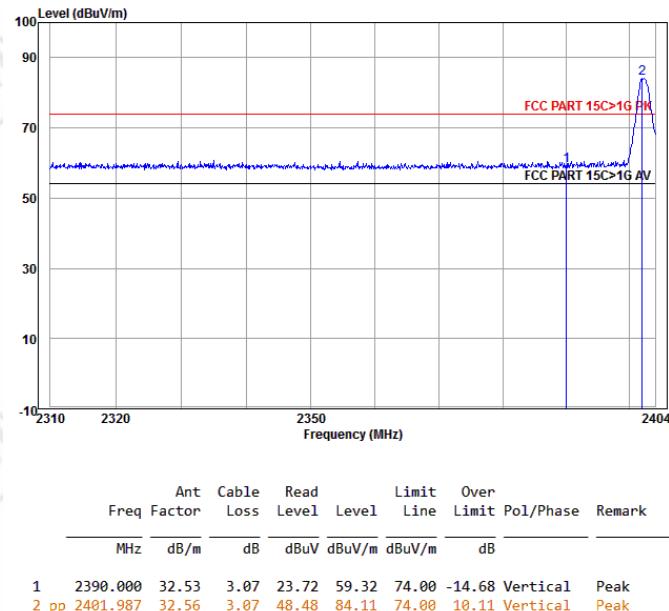
## Appendix K): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark																	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak																	
	Above 1GHz	Peak	1MHz	3MHz	Peak																	
		Peak	1MHz	10Hz	Average																	
Test Procedure:	<b>Below 1GHz test procedure as below:</b> <ul style="list-style-type: none"> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ul> <b>Above 1GHz test procedure as below:</b> <ul style="list-style-type: none"> <li>g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).</li> <li>h. b. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>																					
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Limit (dB<math>\mu</math>V/m @3m)</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr> <tr> <td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr> <tr> <td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr> <tr> <td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr> <tr> <td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr> <tr> <td>74.0</td><td>Peak Value</td></tr> </tbody> </table>		Frequency	Limit (dB $\mu$ V/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dB $\mu$ V/m @3m)	Remark																				
30MHz-88MHz	40.0	Quasi-peak Value																				
88MHz-216MHz	43.5	Quasi-peak Value																				
216MHz-960MHz	46.0	Quasi-peak Value																				
960MHz-1GHz	54.0	Quasi-peak Value																				
Above 1GHz	54.0	Average Value																				
	74.0	Peak Value																				

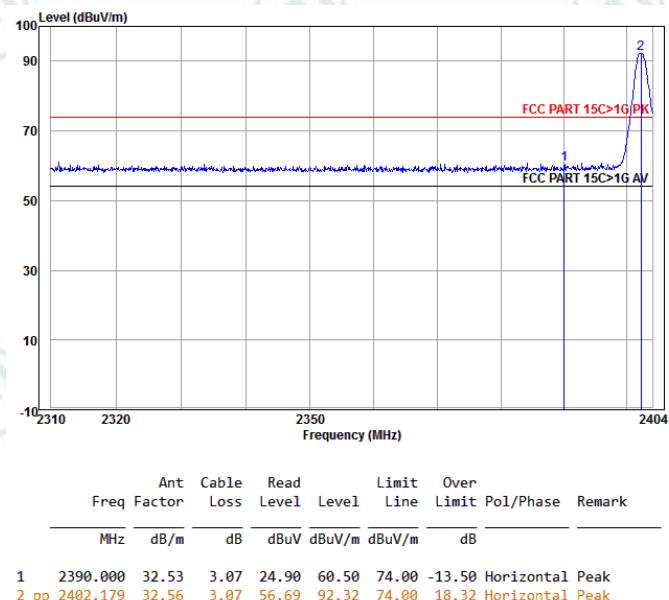
**Test plot as follows:**

GFSK:

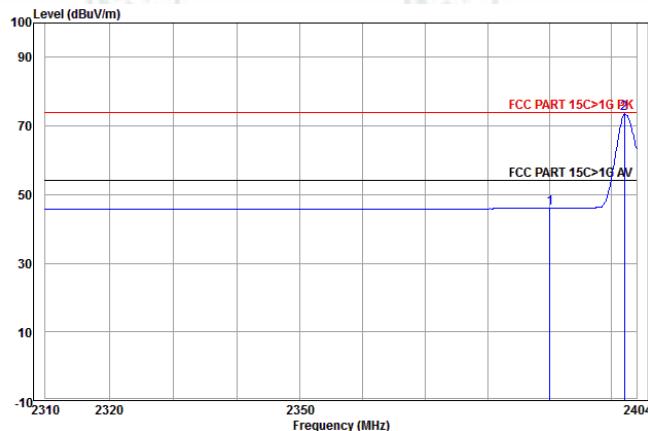
Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Peak	Vertical
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Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Peak	Horizontal
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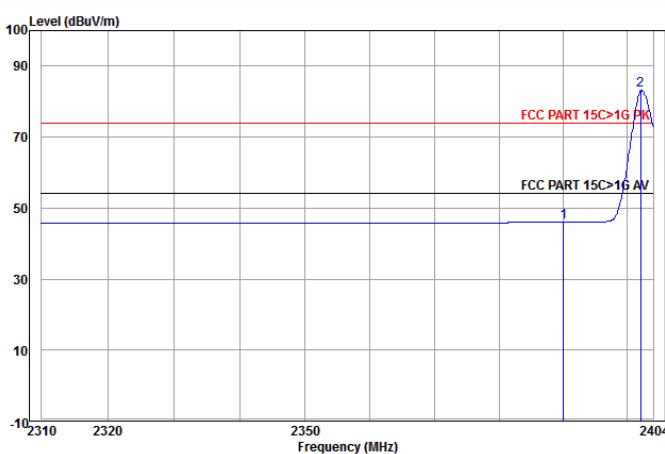


Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Average	Vertical
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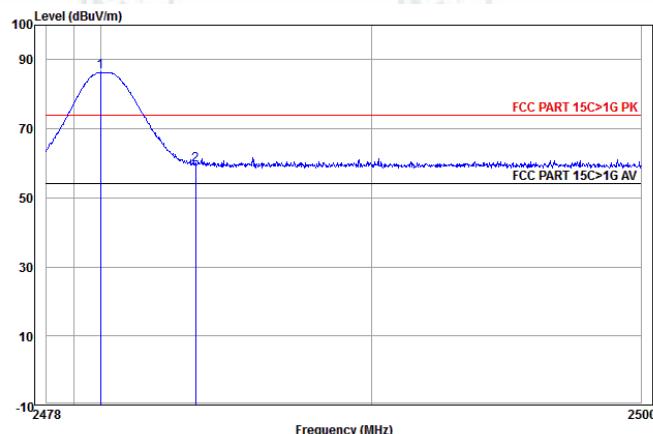
Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	3.07	10.43	46.03	54.00	-7.97 Vertical Average
2 pp	2402.083	32.56	3.07	37.88	73.51	54.00	19.51 Vertical Average

Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Average	Horizontal
------------------	------------	---------------	--------	---------	---------	------------



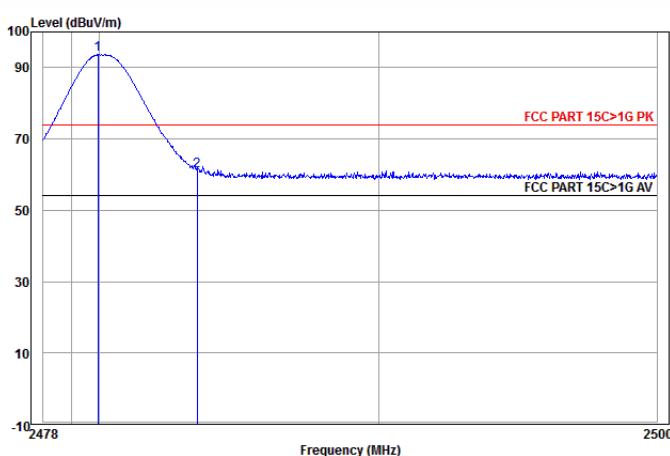
Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	3.07	10.46	46.06	54.00	-7.94 Horizontal Average
2 pp	2402.083	32.56	3.07	47.54	83.17	54.00	29.17 Horizontal Average

Worse case mode:	GFSK (DH5)	Test channel:	Highest	Remark:	Peak	Vertical
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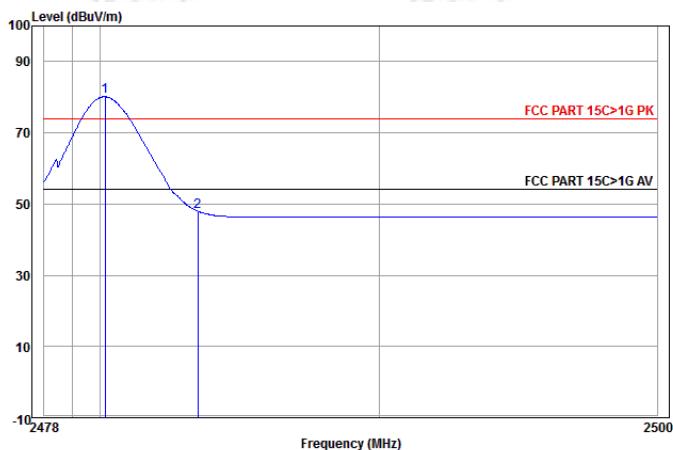
Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Over Line Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2479.994	32.71	3.12	50.57	86.40	74.00	12.40 Vertical Peak
2	2483.500	32.71	3.12	23.78	59.61	74.00	-14.39 Vertical Peak

Worse case mode:	GFSK (DH5)	Test channel:	Highest	Remark:	Peak	Horizontal
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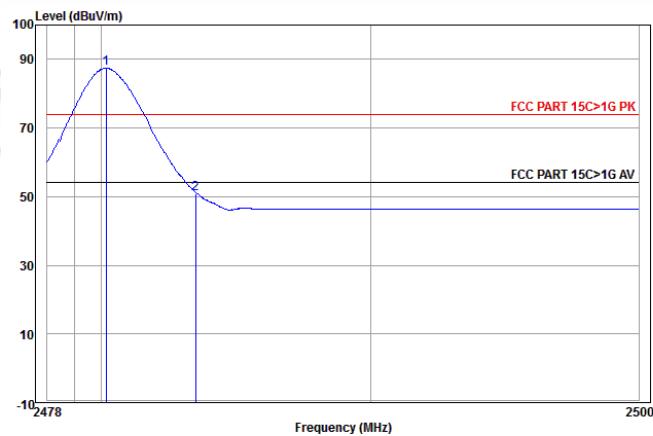
Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Over Line Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2479.950	32.71	3.12	57.80	93.63	74.00	19.63 Horizontal Peak
2	2483.500	32.71	3.12	25.21	61.04	74.00	-12.96 Horizontal Peak

Worse case mode:	GFSK (DH5)	Test channel:	Highest	Remark:	Average	Vertical
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Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.191	32.71	3.12	44.27	80.10	54.00	26.10 Vertical Average
2	2483.500	32.71	3.12	11.92	47.75	54.00	-6.25 Vertical Average

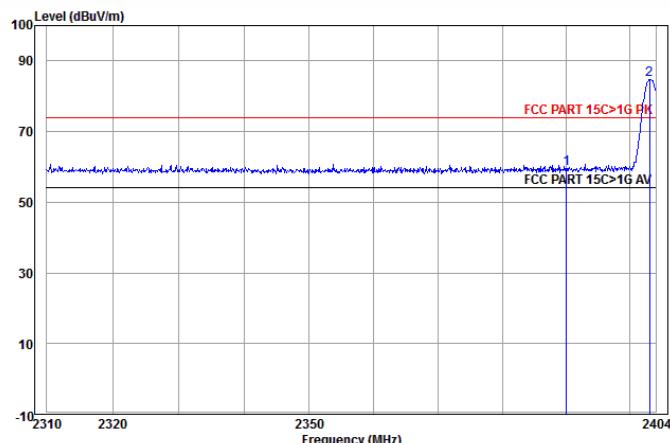
Worse case mode:	GFSK (DH5)	Test channel:	Highest	Remark:	Average	Horizontal
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Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.191	32.71	3.12	51.61	87.44	54.00	33.44 Horizontal Average
2	2483.500	32.71	3.12	14.90	50.73	54.00	-3.27 Horizontal Average

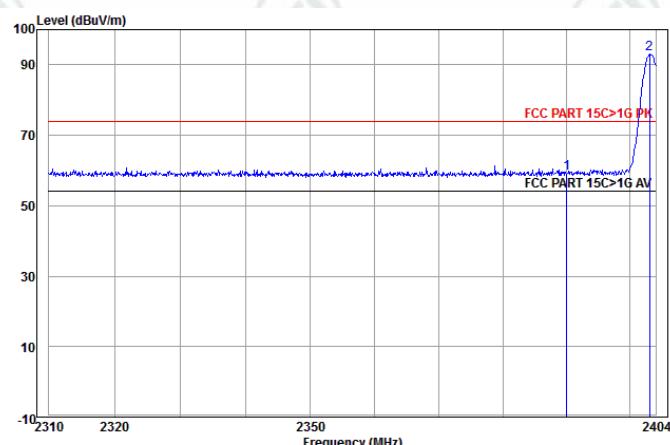
π/4DQPSK:

Worse case mode:	π/4DQPSK (2DH5)	Test channel:	Lowest	Remark:	Peak	Vertical
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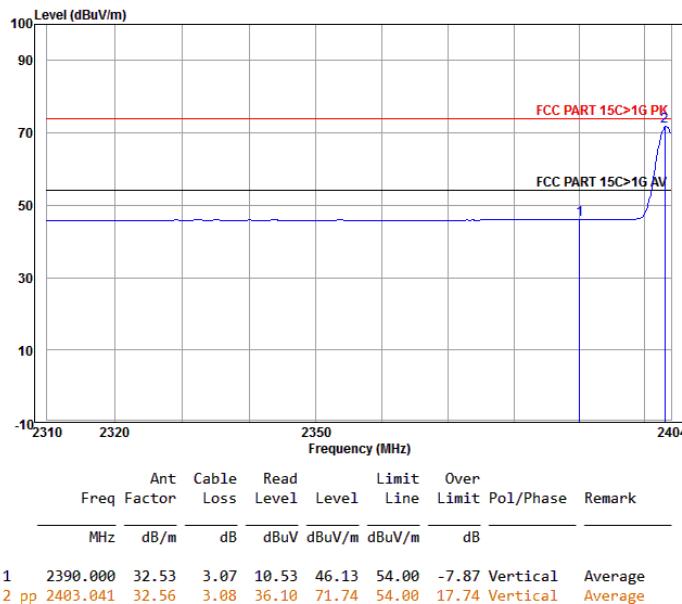
Freq	Ant Factor	Cable	Read	Limit	Over	Pol/Phase	Remark
		Loss	Level	Line	Limit		
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	3.07	23.95	59.55	74.00	-14.45 Vertical Peak
2 pp	2403.041	32.56	3.08	49.16	84.80	74.00	10.80 Vertical Peak

Worse case mode:	π/4DQPSK (2DH5)	Test channel:	Lowest	Remark:	Peak	Horizontal
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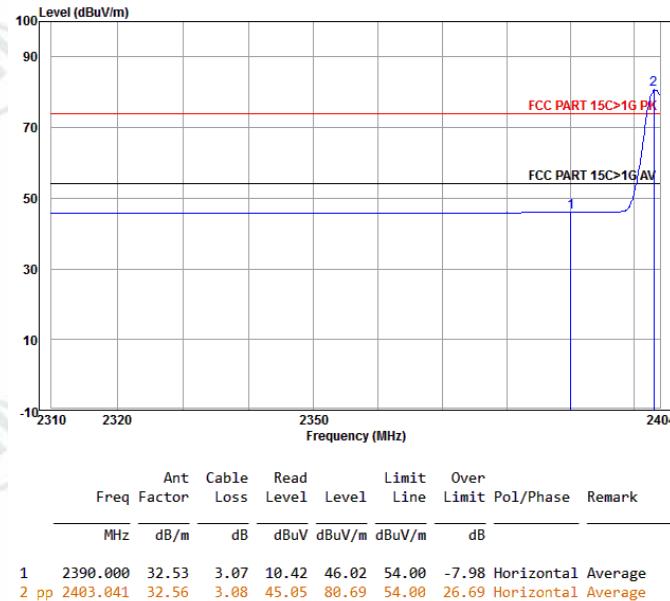


Freq	Ant Factor	Cable	Read	Limit	Over	Pol/Phase	Remark
		Loss	Level	Line	Limit		
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	32.53	3.07	23.69	59.29	74.00	-14.71 Horizontal Peak
2 pp	2403.041	32.56	3.08	57.36	93.00	74.00	19.00 Horizontal Peak

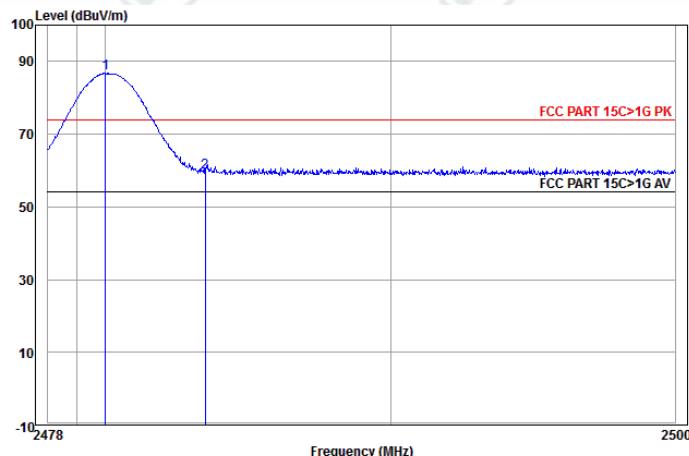
Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Lowest	Remark:	Average	Vertical
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Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Lowest	Remark:	Average	Horizontal
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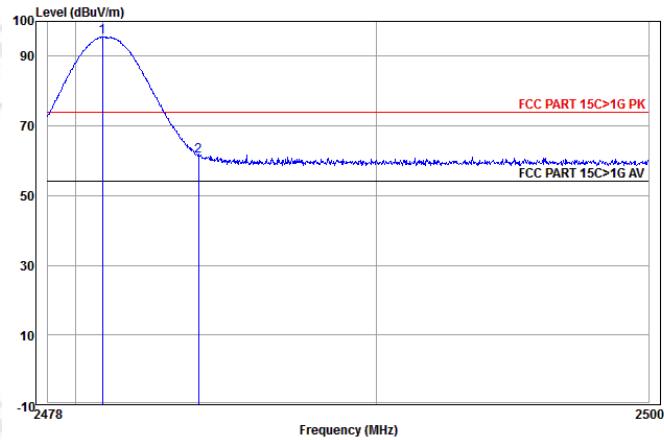


Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Highest	Remark:	Peak	Vertical
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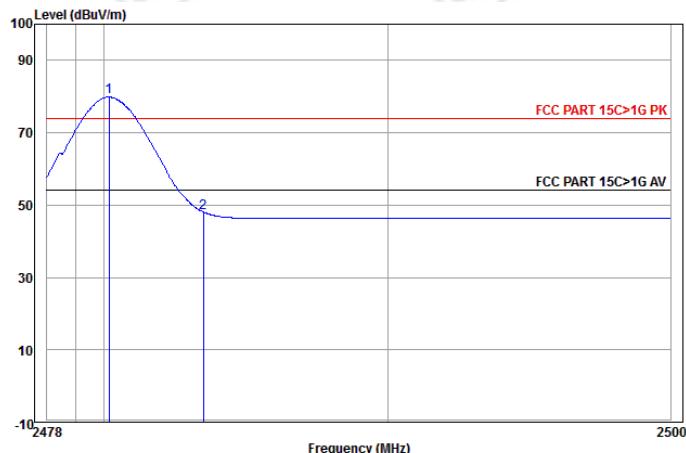
Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.016	32.71	3.12	51.00	86.83	74.00	12.83 Vertical Peak
2	2483.500	32.71	3.12	23.62	59.45	74.00	-14.55 Vertical Peak

Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Highest	Remark:	Peak	Horizontal
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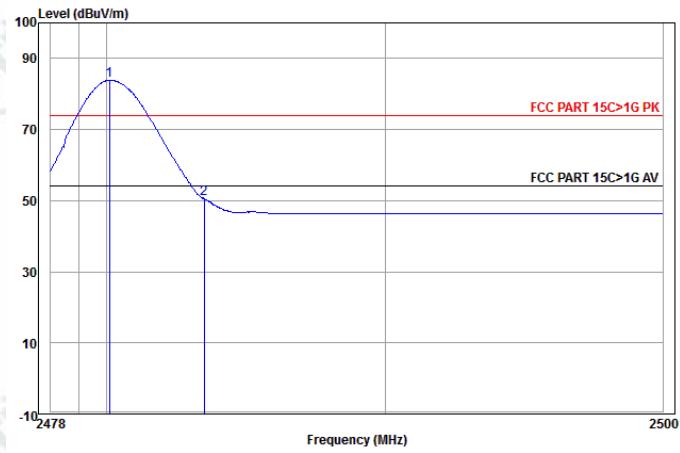
Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2479.994	32.71	3.12	59.75	95.58	74.00	21.58 Horizontal Peak
2	2483.500	32.71	3.12	25.39	61.22	74.00	-12.78 Horizontal Peak

Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Highest	Remark:	Average	Vertical
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	Ant actor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2480.191	32.71	3.12	44.05	79.88	54.00	25.88 Vertical Average
2	2483.500	32.71	3.12	11.94	47.77	54.00	-6.23 Vertical Average

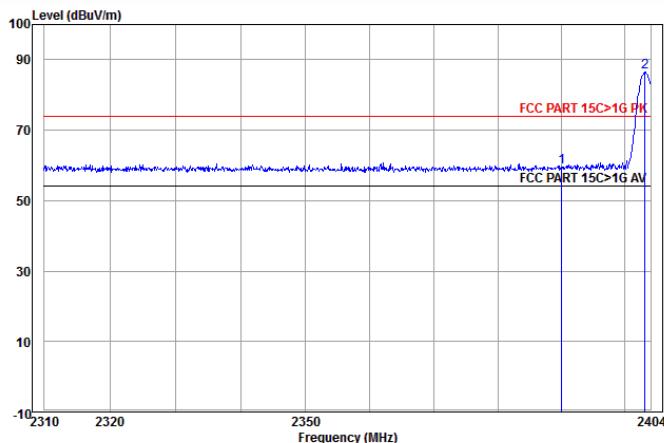
Worse case mode:	$\pi/4$ DQPSK (2DH5)	Test channel:	Highest	Remark:	Average	Horizontal
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	Ant Freq Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2480.104	32.71	3.12	48.09	83.92	54.00	29.92 Horizontal Average
2	2483.500	32.71	3.12	14.72	50.55	54.00	-3.45 Horizontal Average

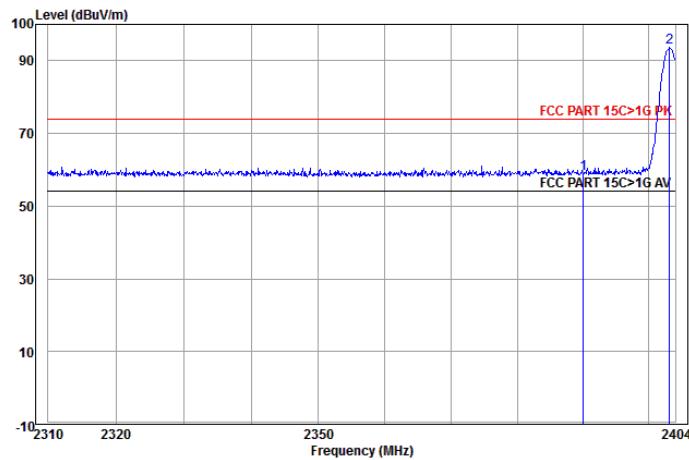
8DPSK:

Worse case mode:	8DPSK (3DH5)	Test channel:	Lowest	Remark:	Peak	Vertical
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Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Line Limit	Over Limit	Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	3.07	24.07	59.67	74.00	-14.33	Vertical Peak
2 pp	2403.137	32.56	3.08	50.84	86.48	74.00	12.48	Vertical Peak

Worse case mode:	8DPSK (3DH5)	Test channel:	Lowest	Remark:	Peak	Horizontal
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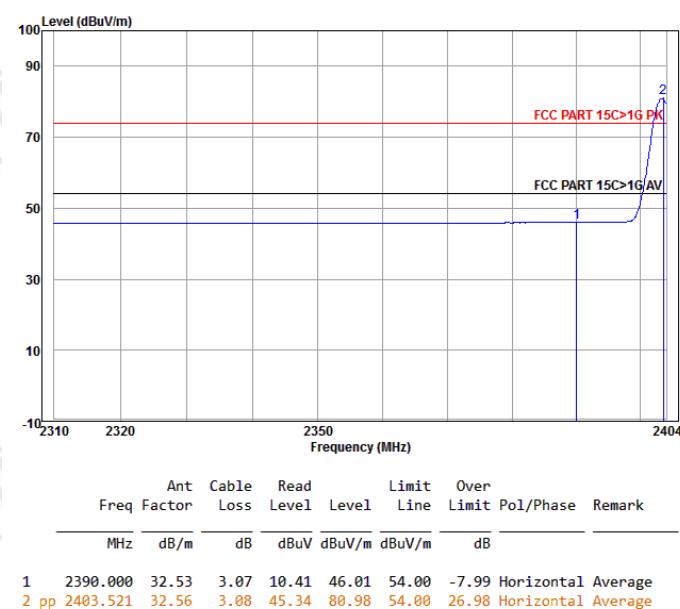


Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Line Limit	Over Limit	Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	32.53	3.07	23.36	58.96	74.00	-15.04	Horizontal Peak
2 pp	2403.137	32.56	3.08	57.93	93.57	74.00	19.57	Horizontal Peak

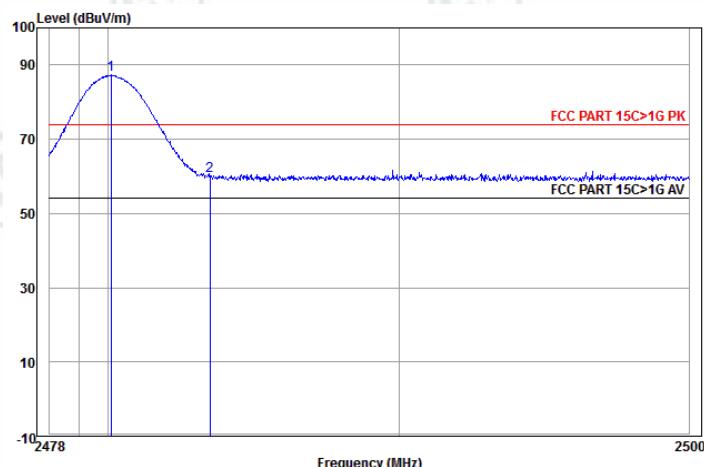
Worse case mode:	8DPSK (3DH5)	Test channel:	Lowest	Remark:	Average	Vertical
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Worse case mode:	8DPSK (3DH5)	Test channel:	Lowest	Remark:	Average	Horizontal
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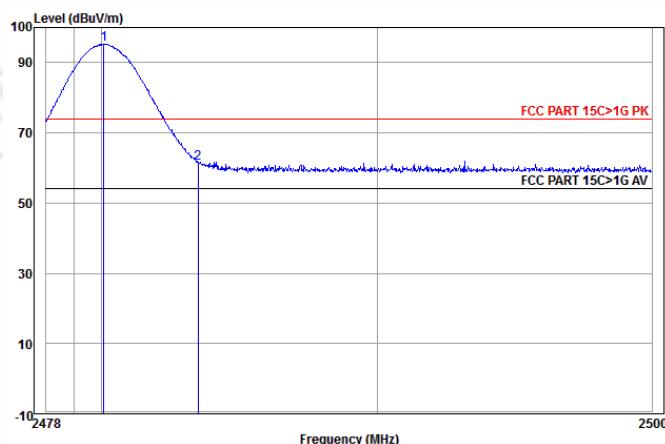


Worse case mode:	8DPSK (3DH5)	Test channel:	Highest	Remark:	Peak	Vertical
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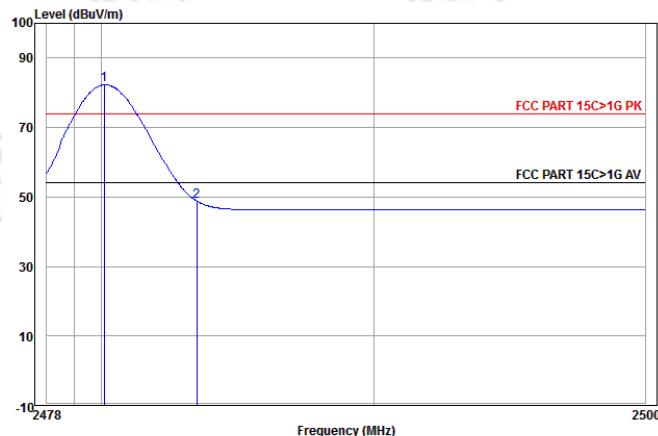
Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.104	32.71	3.12	51.50	87.33	74.00	13.33 Vertical Peak
2	2483.500	32.71	3.12	24.32	60.15	74.00	-13.85 Vertical Peak

Worse case mode:	8DPSK (3DH5)	Test channel:	Highest	Remark:	Peak	Horizontal
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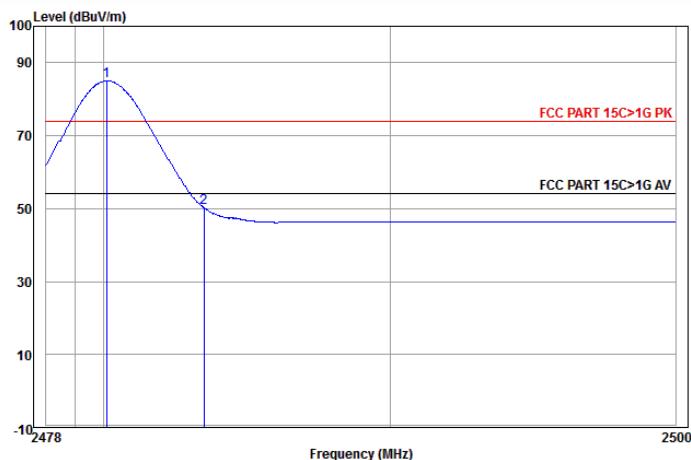
Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase	Remark
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.082	32.71	3.12	59.46	95.29	74.00	21.29 Horizontal Peak
2	2483.500	32.71	3.12	25.52	61.35	74.00	-12.65 Horizontal Peak

Worse case mode:	8DPSK (3DH5)	Test channel:	Highest	Remark:	Average	Vertical
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Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2480.104	32.71	3.12	46.49	82.32	54.00	28.32 Vertical Average
2	2483.500	32.71	3.12	12.98	48.81	54.00	-5.19 Vertical Average

Worse case mode:	8DPSK (3DH5)	Test channel:	Highest	Remark:	Average	Horizontal
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Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz		dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2480.104	32.71	3.12	49.21	85.04	54.00	31.04 Horizontal Average
2	2483.500	32.71	3.12	14.46	50.29	54.00	-3.71 Horizontal Average

Note:

1) Through Pre-scan transmitter mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of  $\pi/4$ DQPSK modulation type, the 3-DH5 of data type is the worse case of 8DPSK modulation type in charge + transmitter mode.

2) As shown in this section, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.

3) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

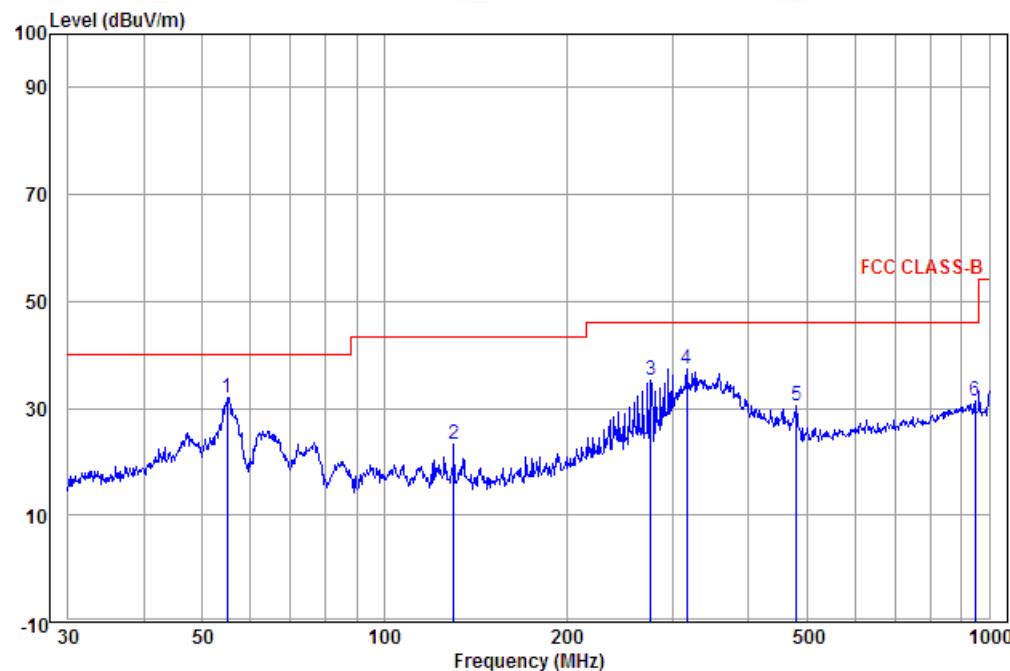
## Appendix L): Radiated Spurious Emissions

<b>Receiver Setup:</b>		Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak		
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average		
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak		
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average		
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak		
Above 1GHz	Peak	1MHz	3MHz	Peak		
	Peak	1MHz	10Hz	Average		
<b>Test Procedure:</b>						
<b>Below 1GHz test procedure as below:</b>						
a.	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.					
b.	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.					
c.	The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.					
d.	For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.					
e.	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.					
f.	If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
<b>Above 1GHz test procedure as below:</b>						
g.	Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).					
h.	Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
i.	The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.					
j.	Repeat above procedures until all frequencies measured was complete.					
<b>Limit:</b>	Frequency	Field strength (microvolt/meter)	Limit (dB $\mu$ V/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
	30MHz-88MHz	100	40.0	Quasi-peak	3	
	88MHz-216MHz	150	43.5	Quasi-peak	3	
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz	500	54.0	Quasi-peak	3	
	Above 1GHz	500	54.0	Average	3	
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

## Radiated Spurious Emissions test Data:

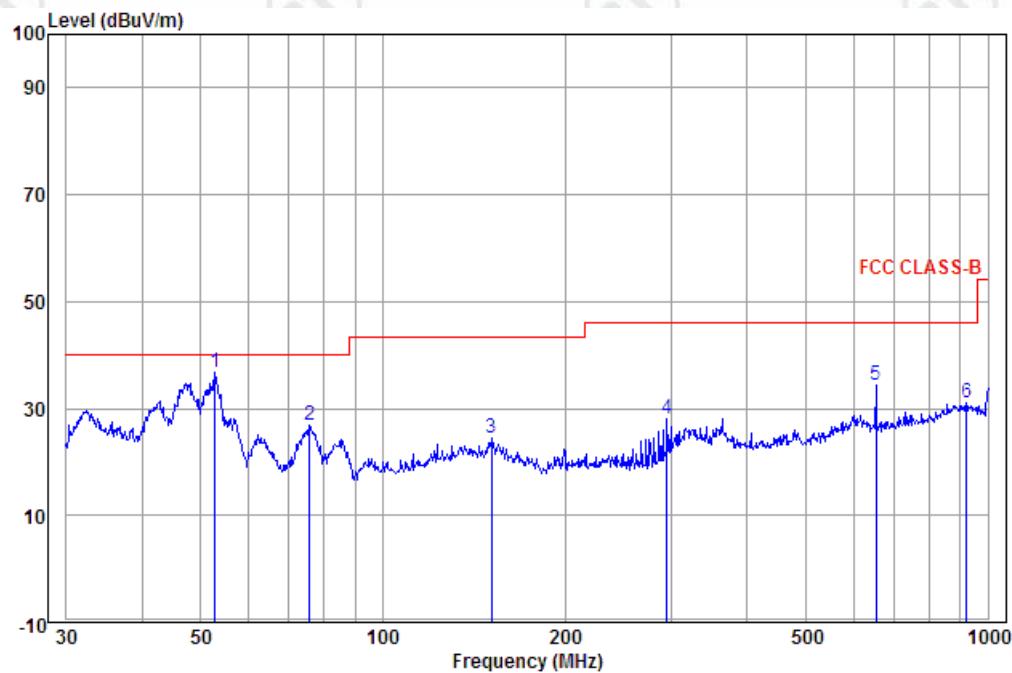
## Radiated Emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Horizontal



Freq	Ant Factor	Cable Loss	Read Level	Limit Line	Over Limit		Pol/Phase	Remark					
					MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	dB
1 pp	55.027	13.81	0.16	18.13	32.10	40.00	-7.90	Horizontal	QP				
2	130.379	10.08	0.60	12.59	23.27	43.50	-20.23	Horizontal	QP				
3	276.124	13.04	1.19	20.91	35.14	46.00	-10.86	Horizontal	QP				
4	316.589	13.75	1.16	22.54	37.45	46.00	-8.55	Horizontal	QP				
5	480.528	16.64	1.50	12.31	30.45	46.00	-15.55	Horizontal	QP				
6	948.761	22.00	2.35	6.98	31.33	46.00	-14.67	Horizontal	QP				

Test mode:	Transmitting	Vertical
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Freq	Ant Factor	Ant	Cable	Read	Limit	Over	Remark	
		MHz	dB/m	dB	dBuV	dBuV/m	Line	
1 pp	52.760	14.16	0.14	22.48	36.78	40.00	-3.22	Vertical QP
2	75.711	9.34	0.35	17.24	26.93	40.00	-13.07	Vertical QP
3	151.067	8.87	0.62	14.85	24.34	43.50	-19.16	Vertical QP
4	295.147	13.33	1.09	13.75	28.17	46.00	-17.83	Vertical QP
5	654.232	18.92	1.85	13.58	34.35	46.00	-11.65	Vertical QP
6	922.516	22.05	2.43	6.46	30.94	46.00	-15.06	Vertical QP

**Transmitter Emission above 1GHz**

Worse case mode:		GFSK(1-DH5)		Test channel:		Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1842.139	31.46	2.68	43.64	48.30	38.80	74.00	-35.20	Pass	H
3018.502	33.58	3.38	44.70	49.86	42.12	74.00	-31.88	Pass	H
4410.750	33.81	5.14	44.60	49.15	43.50	74.00	-30.50	Pass	H
4804.000	34.69	5.98	44.60	48.40	44.47	74.00	-29.53	Pass	H
7206.000	36.42	6.97	44.77	46.04	44.66	74.00	-29.34	Pass	H
9608.000	37.88	6.98	45.58	46.22	45.50	74.00	-28.50	Pass	H
1846.834	31.47	2.69	43.64	48.40	38.92	74.00	-35.08	Pass	V
3192.366	33.43	3.54	44.68	51.99	44.28	74.00	-29.72	Pass	V
4804.000	34.69	5.98	44.60	47.40	43.47	74.00	-30.53	Pass	V
5490.177	35.51	6.92	44.55	48.87	46.75	74.00	-27.25	Pass	V
7206.000	36.42	6.97	44.77	45.85	44.47	74.00	-29.53	Pass	V
9608.000	37.88	6.98	45.58	46.30	45.58	74.00	-28.42	Pass	V

Worse case mode:		GFSK(1-DH5)		Test channel:		Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1809.605	31.41	2.65	43.67	48.25	38.64	74.00	-35.36	Pass	H
3342.042	33.30	3.67	44.66	50.48	42.79	74.00	-31.21	Pass	H
4688.616	34.44	5.74	44.60	49.20	44.78	74.00	-29.22	Pass	H
4882.000	34.85	6.14	44.60	47.20	43.59	74.00	-30.41	Pass	H
7323.000	36.43	6.85	44.87	47.03	45.44	74.00	-28.56	Pass	H
9764.000	38.05	7.12	45.55	47.14	46.76	74.00	-27.24	Pass	H
1828.125	31.44	2.67	43.66	47.95	38.40	74.00	-35.60	Pass	V
3192.366	33.43	3.54	44.68	52.88	45.17	74.00	-28.83	Pass	V
4652.947	34.36	5.67	44.60	48.14	43.57	74.00	-30.43	Pass	V
4882.000	34.85	6.14	44.60	47.82	44.21	74.00	-29.79	Pass	V
7323.000	36.43	6.85	44.87	46.99	45.40	74.00	-28.60	Pass	V
9764.000	38.05	7.12	45.55	46.81	46.43	74.00	-27.57	Pass	V

Worse case mode:		GFSK(1-DH5)		Test channel:		Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1823.477	31.43	2.66	43.66	48.07	38.50	74.00	-35.50	Pass	H
2124.374	31.98	2.92	43.68	48.29	39.51	74.00	-34.49	Pass	H
3233.257	33.39	3.58	44.67	51.37	43.67	74.00	-30.33	Pass	H
4960.000	35.02	6.29	44.60	47.88	44.59	74.00	-29.41	Pass	H
7440.000	36.45	6.73	44.97	47.25	45.46	74.00	-28.54	Pass	H
9920.000	38.22	7.26	45.52	46.29	46.25	74.00	-27.75	Pass	H
1768.619	31.35	2.60	43.71	47.63	37.87	74.00	-36.13	Pass	V
3192.366	33.43	3.54	44.68	52.57	44.86	74.00	-29.14	Pass	V
4960.000	35.02	6.29	44.60	48.38	45.09	74.00	-28.91	Pass	V
5490.177	35.51	6.92	44.55	49.21	47.09	74.00	-26.91	Pass	V
7440.000	36.45	6.73	44.97	46.61	44.82	74.00	-29.18	Pass	V
9920.000	38.22	7.26	45.52	46.62	46.58	74.00	-27.42	Pass	V

Worse case mode:		$\pi/4$ DQPSK(2-DH5)		Test channel:		Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
2140.659	32.02	2.93	43.70	47.63	38.88	74.00	-35.12	Pass	H
3644.175	33.06	3.92	44.63	50.53	42.88	74.00	-31.12	Pass	H
4804.000	34.69	5.98	44.60	47.27	43.34	74.00	-30.66	Pass	H
6494.564	36.16	7.31	44.55	48.68	47.60	74.00	-26.40	Pass	H
7206.000	36.42	6.97	44.77	46.39	45.01	74.00	-28.99	Pass	H
9608.000	37.88	6.98	45.58	45.42	44.70	74.00	-29.30	Pass	H
1786.719	31.37	2.62	43.70	48.03	38.32	74.00	-35.68	Pass	V
3018.502	33.58	3.38	44.70	50.38	42.64	74.00	-31.36	Pass	V
3192.366	33.43	3.54	44.68	51.63	43.92	74.00	-30.08	Pass	V
4804.000	34.69	5.98	44.60	47.59	43.66	74.00	-30.34	Pass	V
7206.000	36.42	6.97	44.77	46.00	44.62	74.00	-29.38	Pass	V
9608.000	37.88	6.98	45.58	45.86	45.14	74.00	-28.86	Pass	V

Worse case mode:		$\pi/4$ DQPSK(2-DH5)		Test channel:		Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1832.785	31.45	2.67	43.65	47.81	38.28	74.00	-35.72	Pass	H
3192.366	33.43	3.54	44.68	52.70	44.99	74.00	-29.01	Pass	H
4882.000	34.85	6.14	44.60	46.69	43.08	74.00	-30.92	Pass	H
5476.219	35.50	6.90	44.55	48.85	46.70	74.00	-27.30	Pass	H
7323.000	36.43	6.85	44.87	47.80	46.21	74.00	-27.79	Pass	H
9764.000	38.05	7.12	45.55	46.22	45.84	74.00	-28.16	Pass	H
2076.259	31.88	2.89	43.61	48.34	39.50	74.00	-34.50	Pass	V
4170.530	33.23	4.60	44.60	49.50	42.73	74.00	-31.27	Pass	V
4882.000	34.85	6.14	44.60	47.36	43.75	74.00	-30.25	Pass	V
5462.297	35.49	6.89	44.55	49.77	47.60	74.00	-26.40	Pass	V
7323.000	36.43	6.85	44.87	47.68	46.09	74.00	-27.91	Pass	V
9764.000	38.05	7.12	45.55	45.69	45.31	74.00	-28.69	Pass	V

Worse case mode:		$\pi/4$ DQPSK(2-DH5)		Test channel:		Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
2070.980	31.86	2.88	43.60	47.81	38.95	74.00	-35.05	Pass	H
3225.037	33.40	3.57	44.67	49.91	42.21	74.00	-31.79	Pass	H
4960.000	35.02	6.29	44.60	47.63	44.34	74.00	-29.66	Pass	H
7338.621	36.44	6.83	44.88	48.81	47.20	74.00	-26.80	Pass	H
7440.000	36.45	6.73	44.97	45.91	44.12	74.00	-29.88	Pass	H
9920.000	38.22	7.26	45.52	46.49	46.45	74.00	-27.55	Pass	H
3018.502	33.58	3.38	44.70	50.29	42.55	74.00	-31.45	Pass	V
3200.502	33.42	3.55	44.68	52.29	44.58	74.00	-29.42	Pass	V
4960.000	35.02	6.29	44.60	47.35	44.06	74.00	-29.94	Pass	V
5379.504	35.42	6.80	44.56	49.08	46.74	74.00	-27.26	Pass	V
7440.000	36.45	6.73	44.97	46.50	44.71	74.00	-29.29	Pass	V
9920.000	38.22	7.26	45.52	46.43	46.39	74.00	-27.61	Pass	V

Worse case mode:		8DPSK(3-DH5)		Test channel:		Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
2108.213	31.95	2.91	43.66	48.49	39.69	74.00	-34.31	Pass	H
3026.195	33.58	3.39	44.70	49.50	41.77	74.00	-32.23	Pass	H
4804.000	34.69	5.98	44.60	47.56	43.63	74.00	-30.37	Pass	H
5151.676	35.23	6.55	44.58	49.31	46.51	74.00	-27.49	Pass	H
7206.000	36.42	6.97	44.77	46.01	44.63	74.00	-29.37	Pass	H
9608.000	37.88	6.98	45.58	47.16	46.44	74.00	-27.56	Pass	H
3192.366	33.43	3.54	44.68	50.43	42.72	74.00	-31.28	Pass	V
4736.600	34.54	5.84	44.60	49.07	44.85	74.00	-29.15	Pass	V
4804.000	34.69	5.98	44.60	47.82	43.89	74.00	-30.11	Pass	V
6063.190	35.93	7.42	44.51	48.81	47.65	74.00	-26.35	Pass	V
7206.000	36.42	6.97	44.77	46.40	45.02	74.00	-28.98	Pass	V
9608.000	37.88	6.98	45.58	46.31	45.59	74.00	-28.41	Pass	V

Worse case mode:		8DPSK(3-DH5)		Test channel:		Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
1805.005	31.40	2.64	43.68	48.41	38.77	74.00	-35.23	Pass	H
3003.173	33.60	3.36	44.70	49.88	42.14	74.00	-31.86	Pass	H
4880.000	34.85	6.13	44.60	49.30	45.68	74.00	-28.32	Pass	H
6109.670	35.96	7.41	44.51	49.10	47.96	74.00	-26.04	Pass	H
7323.000	36.43	6.85	44.87	47.87	46.28	74.00	-27.72	Pass	H
9764.000	38.05	7.12	45.55	46.95	46.57	74.00	-27.43	Pass	H
3184.250	33.43	3.53	44.68	50.81	43.09	74.00	-30.91	Pass	V
4700.566	34.46	5.77	44.60	48.69	44.32	74.00	-29.68	Pass	V
4960.000	35.02	6.29	44.60	47.26	43.97	74.00	-30.03	Pass	V
5865.832	35.80	7.31	44.51	48.91	47.51	74.00	-26.49	Pass	V
7440.000	36.45	6.73	44.97	46.14	44.35	74.00	-29.65	Pass	V
9920.000	38.22	7.26	45.52	46.71	46.67	74.00	-27.33	Pass	V

Worse case mode:		8DPSK(3-DH5)		Test channel:		Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Result	Antenna Polaxis
2081.550	31.89	2.89	43.62	47.81	38.97	74.00	-35.03	Pass	H
3057.166	33.55	3.41	44.69	49.88	42.15	74.00	-31.85	Pass	H
4960.000	35.02	6.29	44.60	47.29	44.00	74.00	-30.00	Pass	H
5865.832	35.80	7.31	44.51	49.10	47.70	74.00	-26.30	Pass	H
7440.000	36.45	6.73	44.97	47.52	45.73	74.00	-28.27	Pass	H
9920.000	38.22	7.26	45.52	46.94	46.90	74.00	-27.10	Pass	H
1814.218	31.42	2.65	43.67	48.37	38.77	74.00	-35.23	Pass	V
3184.250	33.43	3.53	44.68	52.06	44.34	74.00	-29.66	Pass	V
4960.000	35.02	6.29	44.60	46.89	43.60	74.00	-30.40	Pass	V
6109.670	35.96	7.41	44.51	48.39	47.25	74.00	-26.75	Pass	V
7440.000	36.45	6.73	44.97	46.01	44.22	74.00	-29.78	Pass	V
9920.000	38.22	7.26	45.52	46.66	46.62	74.00	-27.38	Pass	V

## Note:

- 1) Through Pre-scan transmitter mode with all kind of modulation and all kind of data type, find the 1-DH5 of data type is the worse case of GFSK modulation type, the 2-DH5 of data type is the worse case of  $\pi/4$ DQPSK modulation type, he 3-DH5 of data type is the worse case of 8DPSKmodulation type in transmitter mode.
- 2) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.
- 3) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

- 4) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## PHOTOGRAPHS OF TEST SETUP

Refer to appendix for EUT Test setup-1.

## PHOTOGRAPHS OF EUT Constructional Details

Refer to appendix for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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