Shenzhen Huaxia Testing Technology Co., Ltd

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Report Template Version: V04
Report Template Revision Date: 2018-07-06

Test Report

Report No. :	CQASZ20210500028EX-01
Applicant:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Applicant:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126
Manufacturer:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Manufacturer:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126

Equipment Under Test (EUT):

Product:	tablet pc
All Model No.:	CP10
Test Model No.:	CP10
Brand Name:	COOPERS
FCC ID:	2AV6Y-CP10
Standards:	47 CFR FCC Part 15 Subpart C 15.247
Date of Test:	May 11, 2021 – Jun. 01, 2021
Date of Issue:	Jun. 01, 2021
Test Result :	**PASS***

Tested By: Lewis zhou

(Lewis Zhou)

Reviewed By: Jun Li

(Jun Li)

Approved By: Sheek.Luo

(Sheek luo)

* In the configuration tested, the EUT complied with the standards specified above.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500028EX-01	Rev.01	Initial report	Jun. 01, 2021

2 Test Summary

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

N/A: Not Applicable

3 Contents

4 General Information

4.1 Client Information

Applicant:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Applicant:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126
Manufacturer:	SHENZHEN PEICHENG TECHNOLOGY CO., LTD
Address of Manufacturer:	5th floor, B building, Yingxin factory, Baotian 3rd Rd., Xixiang, Bao'an Distict, Shenzhen, China .Zip code: 518126

4.2 General Description of EUT

Product Name:	tablet pc
Test Model No.:	CP10
Trade Mark:	COOPERS
Hardware Version:	V1.0
Software Version:	V1.8
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT-V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	FPC antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.7V from battery Charging : DC 5.0V 1A

Note: 1. This report is only for BT

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

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

4.3 Additional Instructions

EUT Test Software Settings:	
Mode:	☐ Special software is used. ☒ Through engineering command into the engineering mode. engineering command: *!*!3646633!*!*
EUT Power level:	Class2 (Power level is built-in set parameters and cannot be changed and selected)

Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

Mode	Channel	Frequency(MHz)
DH1/DH3/DH5	CH0	2402
	CH39	2441
	CH78	2480
2DH1/2DH3/2DH5	CH0	2402
	CH39	2441
	CH78	2480

4.4 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	995mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
ADAPTER	/	MODEL: FJ-SW1260502500UN INPUT:100-240 50/60Hz 0.4A Max OUTPUT:5V 1500mA	Provide by lab	SDOC

4.6 Statement of the 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 Huaxia Testing 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 CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:
IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

- **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.

4.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/25	2021/10/24
EXA spectrum alalyzer	Keysight	N9010A	CQA-106	2020/9/26	2021/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2020/10/25	2021/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2020/10/21	2020/10/20
Bilog Antenna	R&S	HL562	CQA-011	2020/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2020/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/25	2021/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
LISN	R&S	ENV216	CQA-003	2020/10/23	2021/10/22
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25

Note:

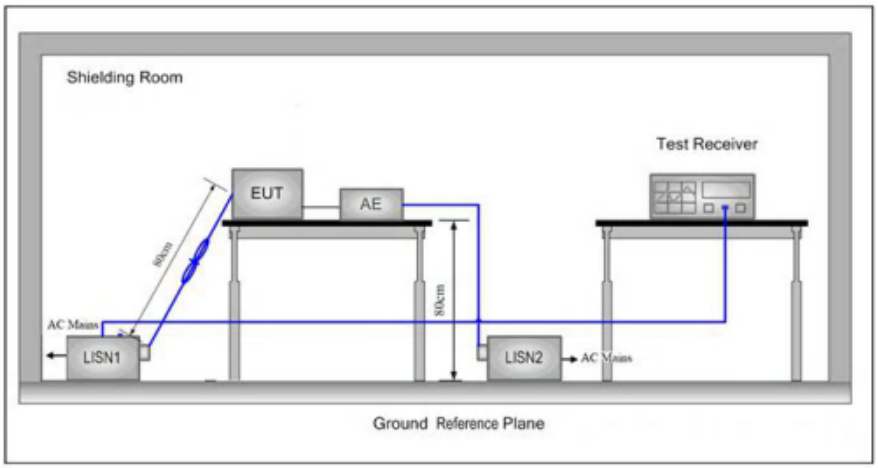
The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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.	
EUT Antenna:	FPC antenna 
The antenna is FPC antenna. The best case gain of the antenna is 0dBi.	

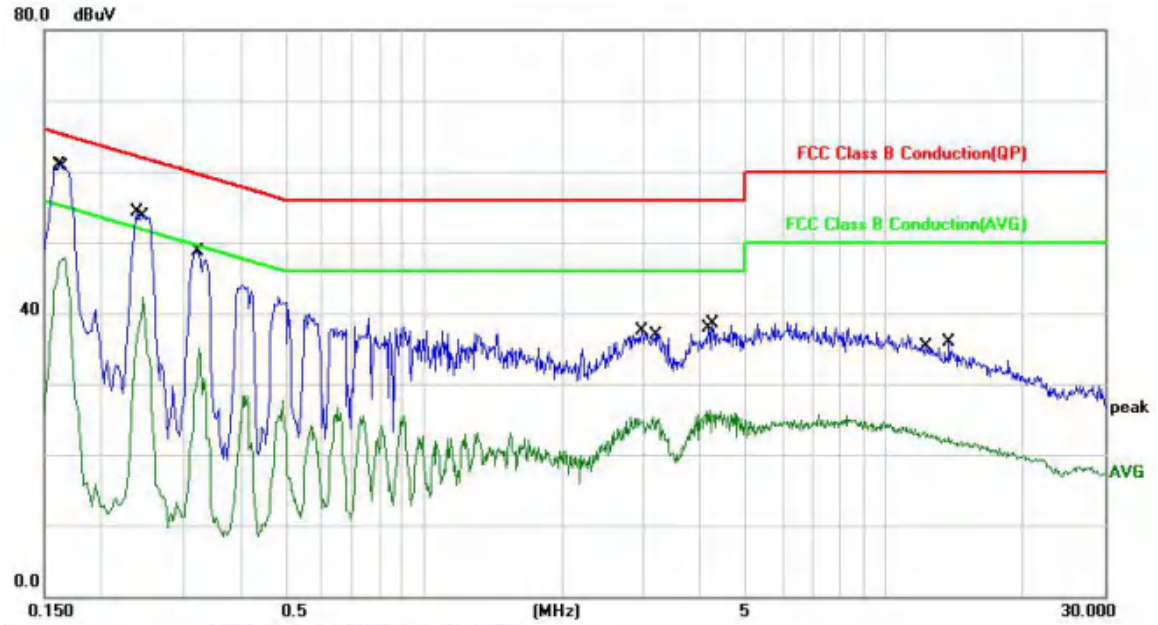
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	150kHz to 30MHz
Limit:	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 Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω 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. 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, 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. 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: 2013 on conducted measurement.
Test Setup:	

Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the WIFI of data type at the mid channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC110V/60Hz
Test Results:	Pass

Measurement Data

Live Line:

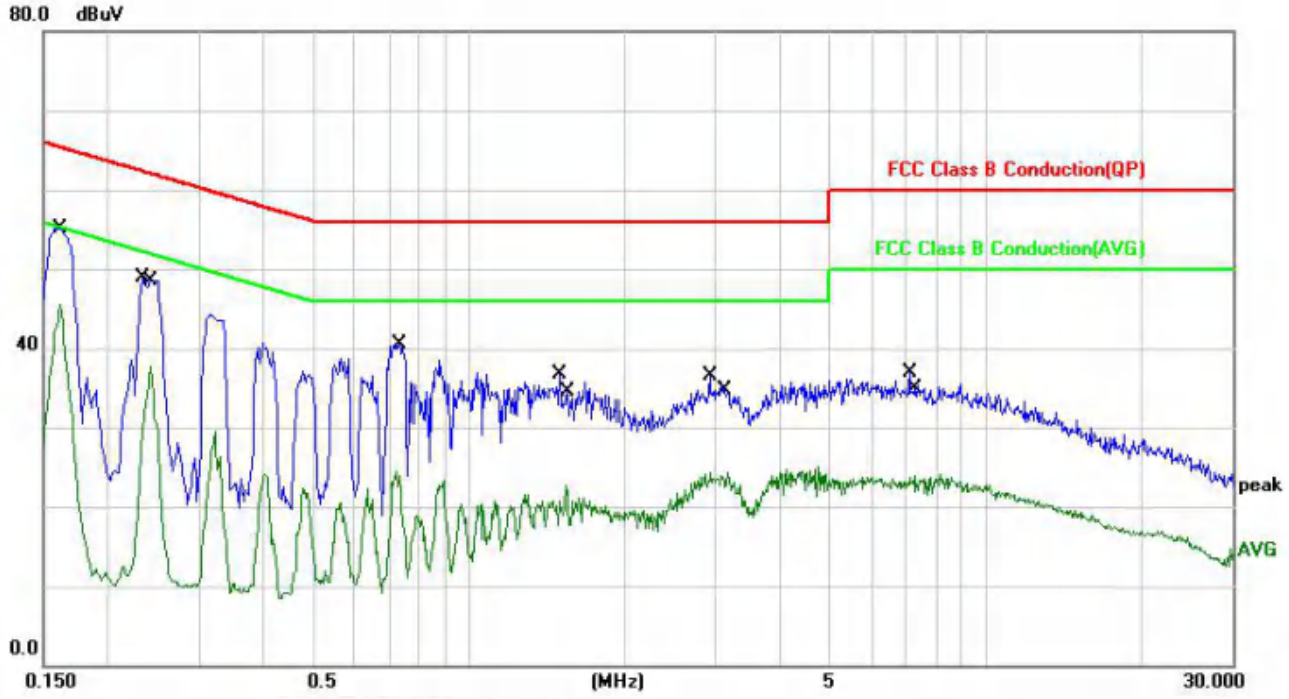


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	61.01	-0.13	60.88	65.36	-4.48	QP	
2		0.1660	48.09	-0.13	47.96	55.15	-7.19	AVG	
3		0.2380	54.36	-0.11	54.25	62.16	-7.91	QP	
4		0.2460	42.48	-0.11	42.37	51.89	-9.52	AVG	
5		0.3220	48.66	-0.01	48.65	59.65	-11.00	QP	
6		0.3260	35.10	-0.02	35.08	49.55	-14.47	AVG	
7		2.9660	37.76	-0.18	37.58	56.00	-18.42	QP	
8		3.1540	25.55	-0.18	25.37	46.00	-20.63	AVG	
9		4.1740	26.55	-0.20	26.35	46.00	-19.65	AVG	
10		4.2300	38.75	-0.20	38.55	56.00	-17.45	QP	
11		12.2100	23.50	-0.13	23.37	50.00	-26.63	AVG	
12		13.8100	36.12	-0.18	35.94	60.00	-24.06	QP	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:

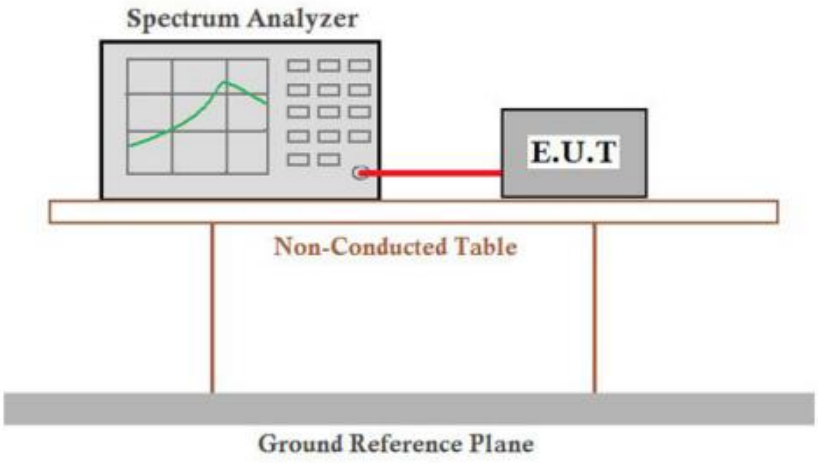


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	55.29	-0.13	55.16	65.36	-10.20	QP	
2	*	0.1620	45.53	-0.13	45.40	55.36	-9.96	AVG	
3		0.2340	49.10	-0.12	48.98	62.30	-13.32	QP	
4		0.2420	37.71	-0.11	37.60	52.02	-14.42	AVG	
5		0.7260	24.64	-0.06	24.58	46.00	-21.42	AVG	
6		0.7340	40.64	-0.06	40.58	56.00	-15.42	QP	
7		1.5020	36.95	-0.19	36.76	56.00	-19.24	QP	
8		1.5420	22.95	-0.19	22.76	46.00	-23.24	AVG	
9		2.9300	36.58	-0.18	36.40	56.00	-19.60	QP	
10		3.1700	24.41	-0.18	24.23	46.00	-21.77	AVG	
11		7.1020	37.21	-0.28	36.93	60.00	-23.07	QP	
12		7.2620	24.23	-0.28	23.95	50.00	-26.05	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

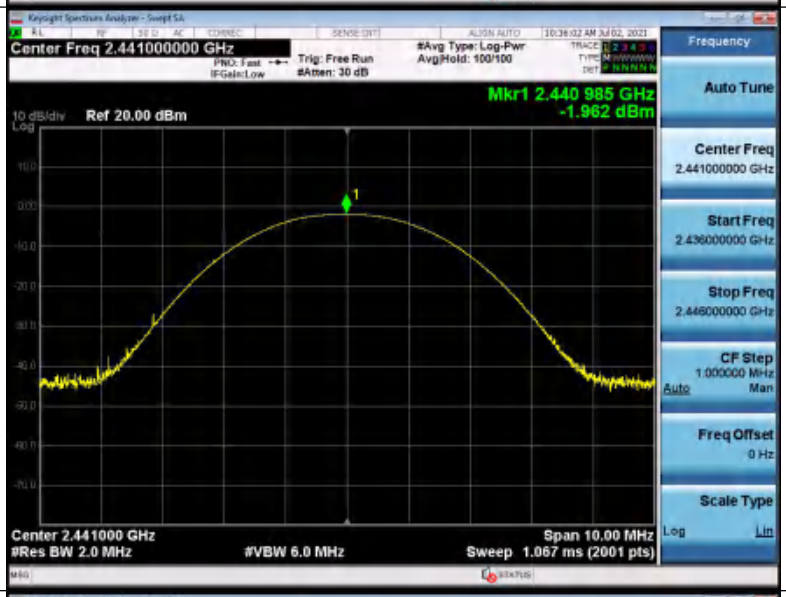
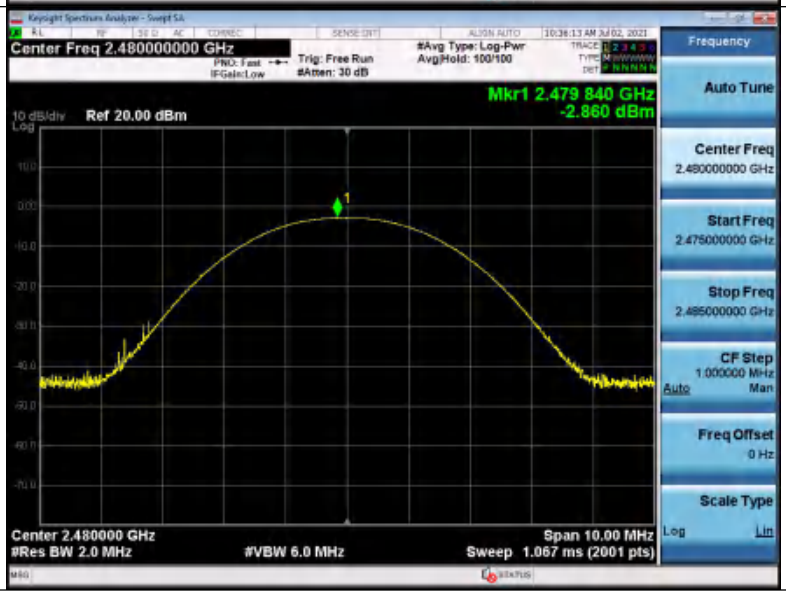
5.3 Conducted Peak Output Power

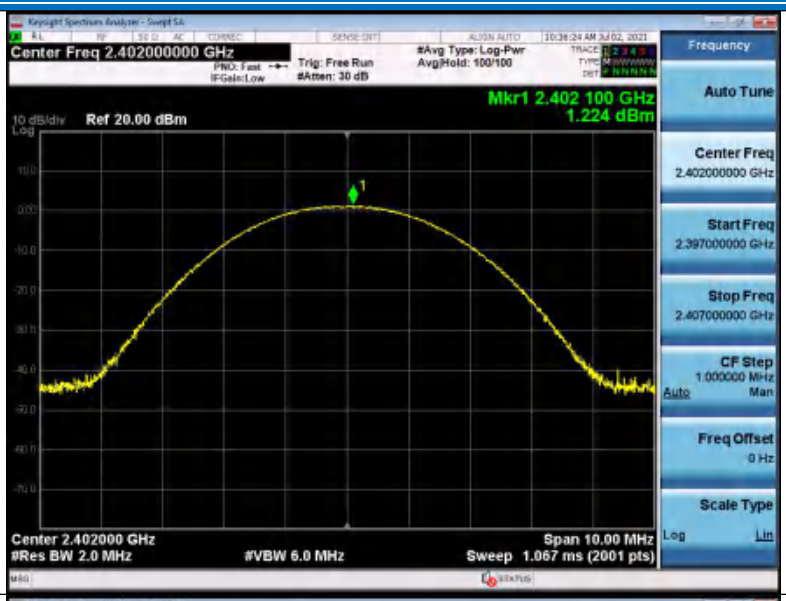
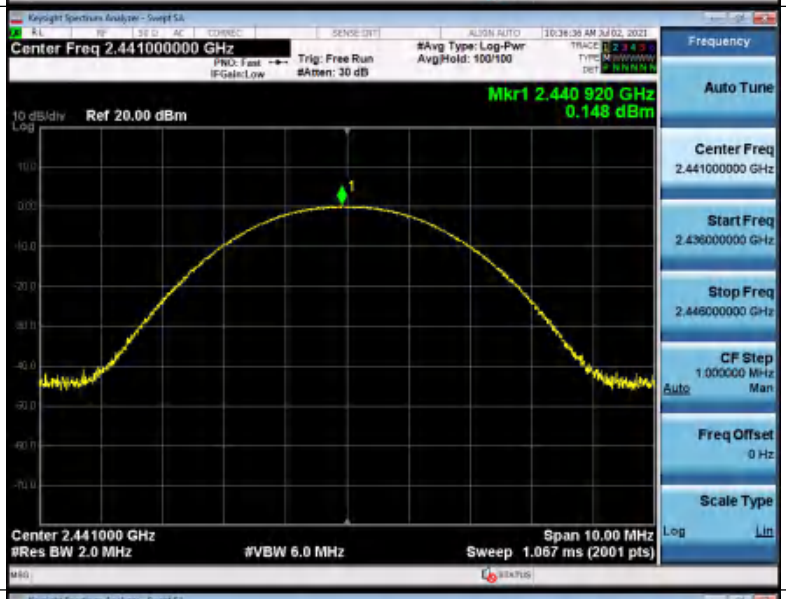
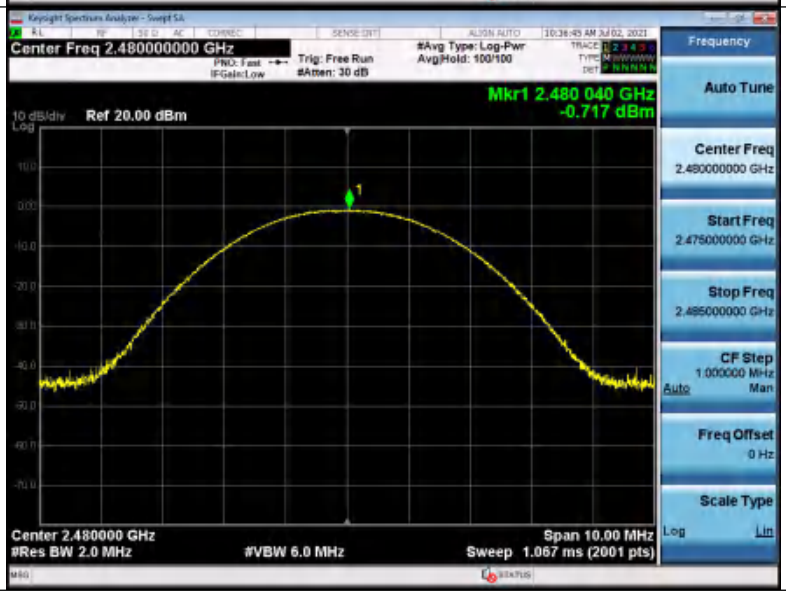
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=Cable loss+ attenuation factor.*
Limit:	21dBm
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

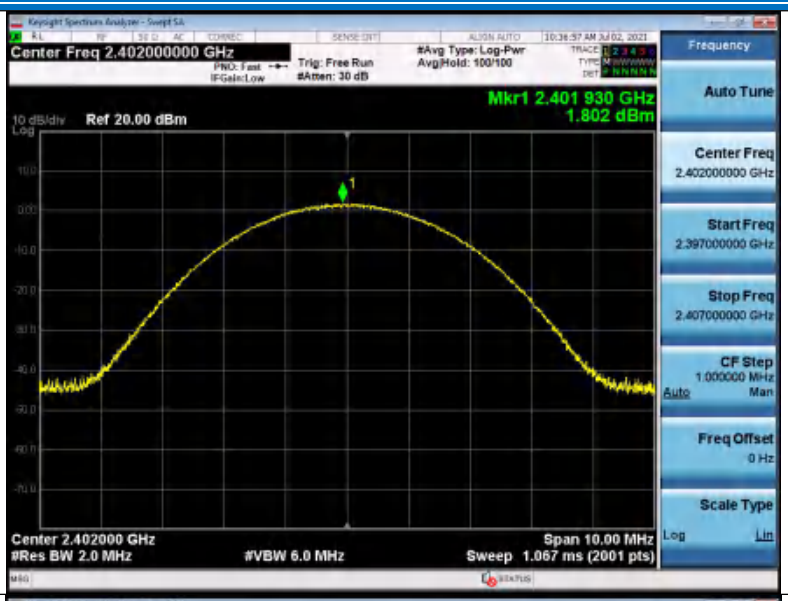
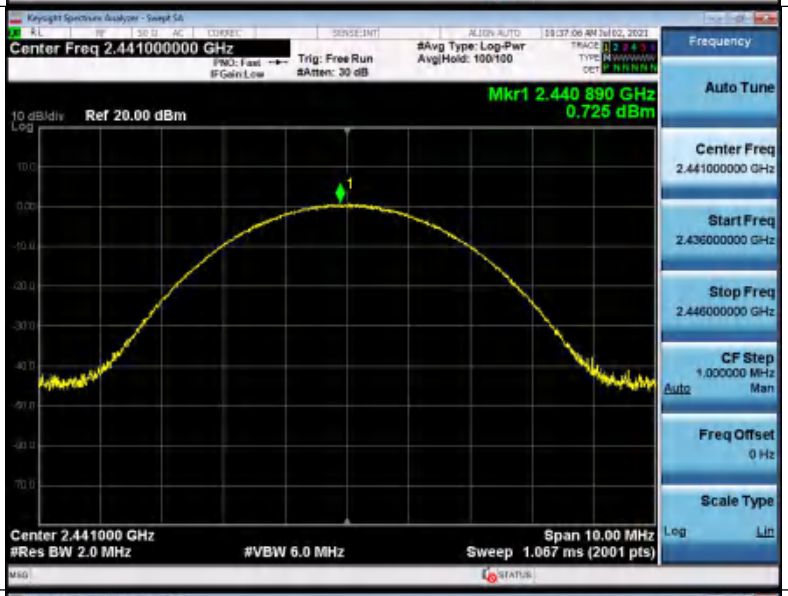
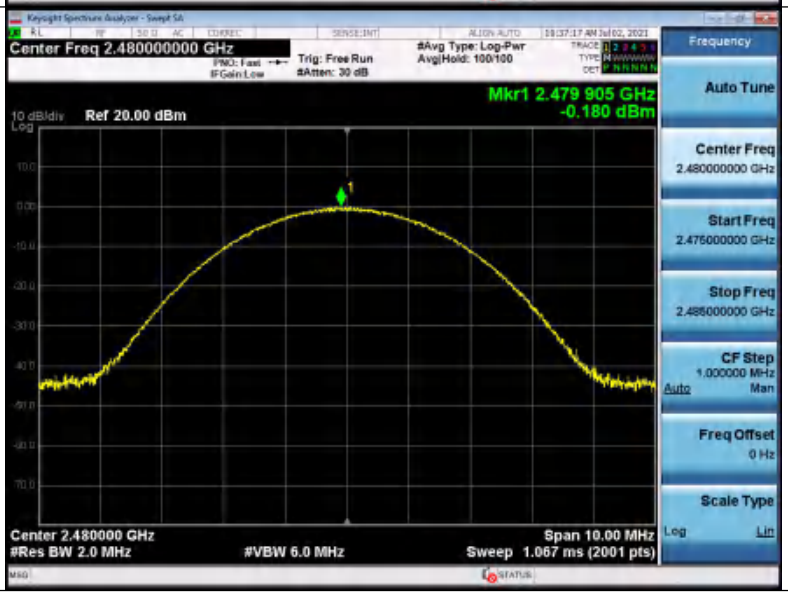
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.887	30.00	Pass
Middle	-1.962	30.00	Pass
Highest	-2.860	30.00	Pass
π/4DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	1.224	30.00	Pass
Middle	0.148	30.00	Pass
Highest	-0.717	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	1.802	30.00	Pass
Middle	0.725	30.00	Pass
Highest	-0.180	30.00	Pass

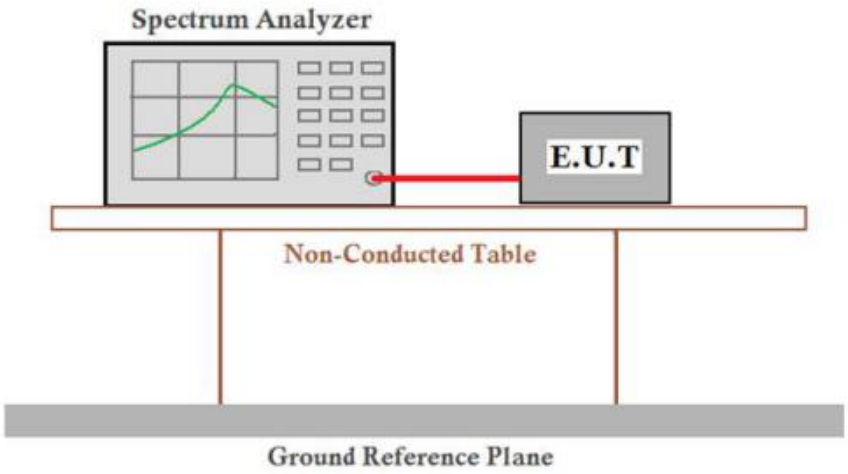
Test plot as follows:

Graphs		
GFSK/LCH		
GFSK/MCH		
GFSK/HCH		

π/4DQPSK/LCH		
π/4DQPSK/MCH		
π/4DQPSK/HCH		

8DPSK/LCH		
8DPSK/MCH		
8DPSK/HCH		

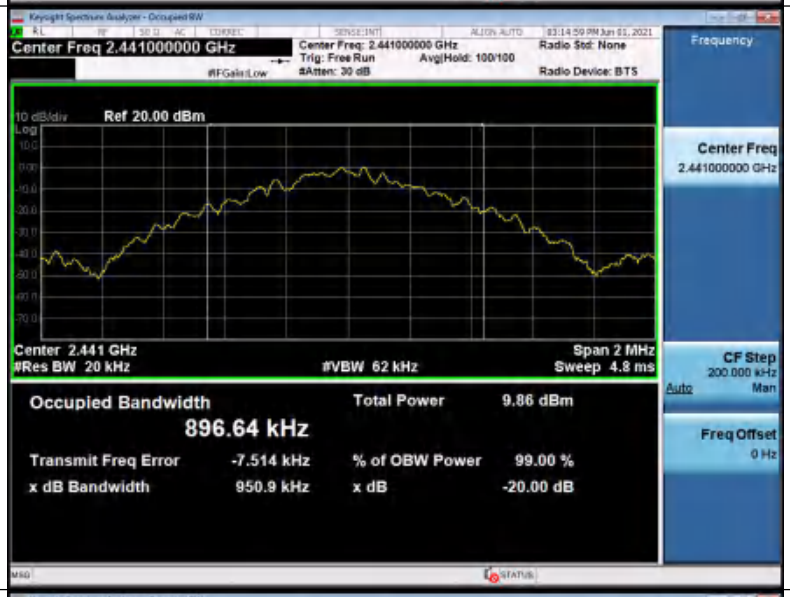
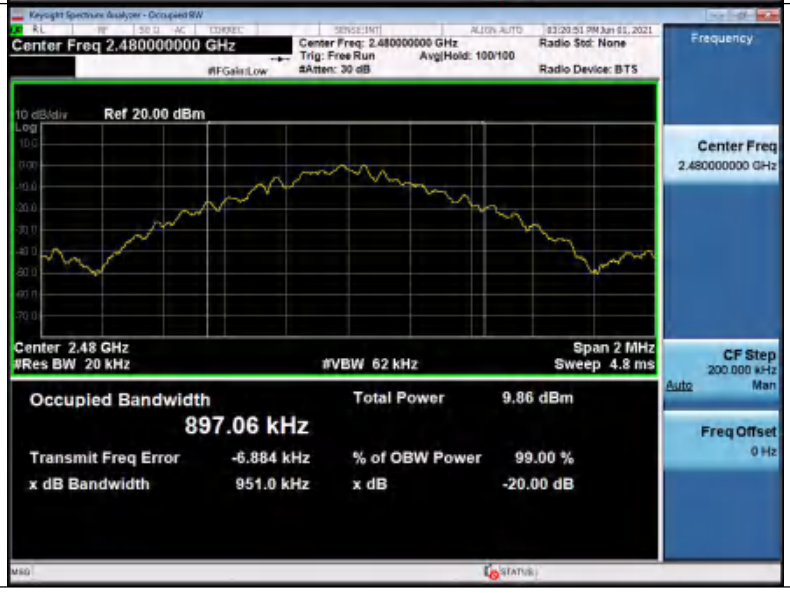
5.4 20dB Occupy Bandwidth

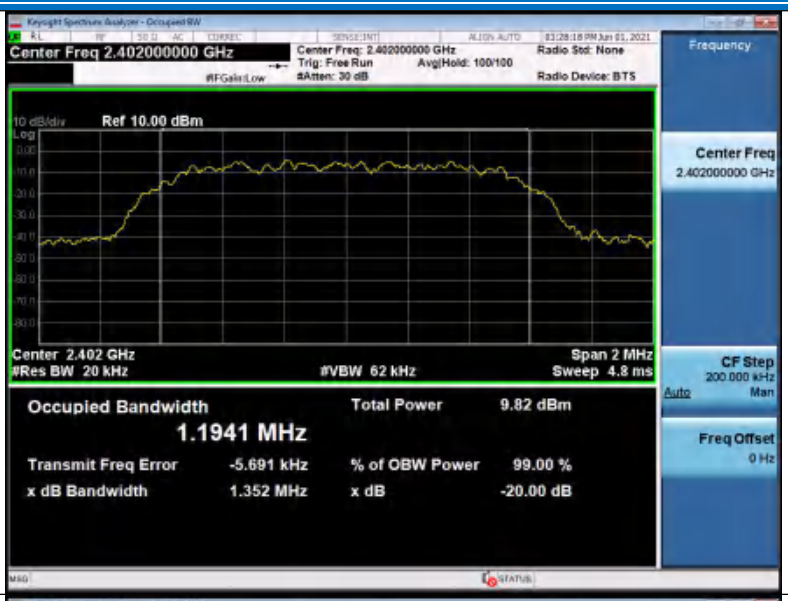
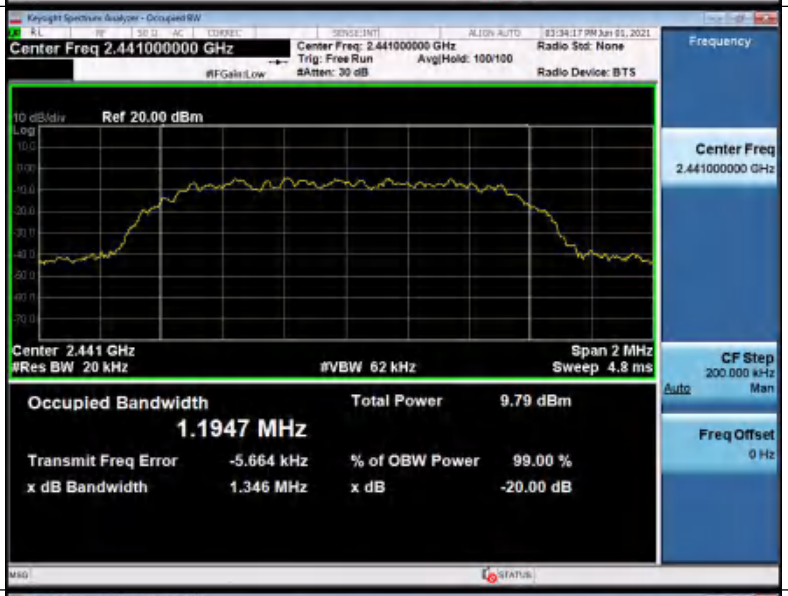
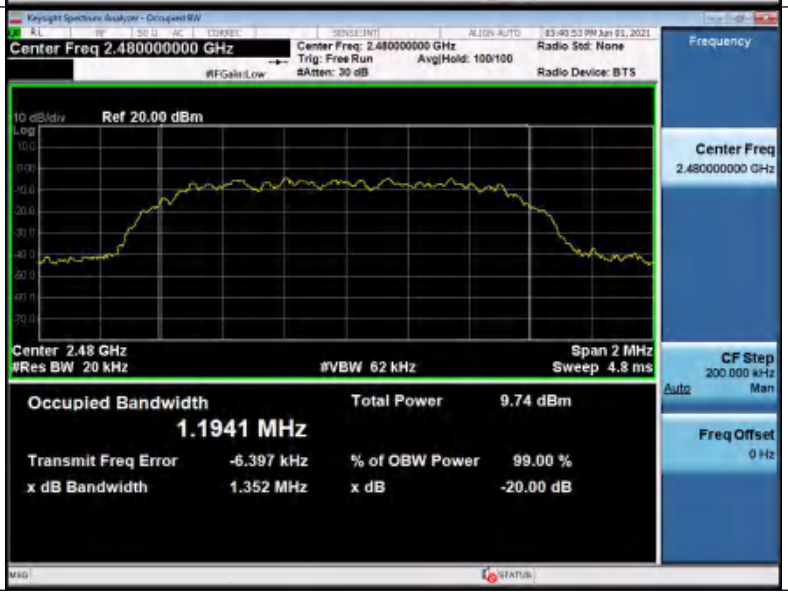
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

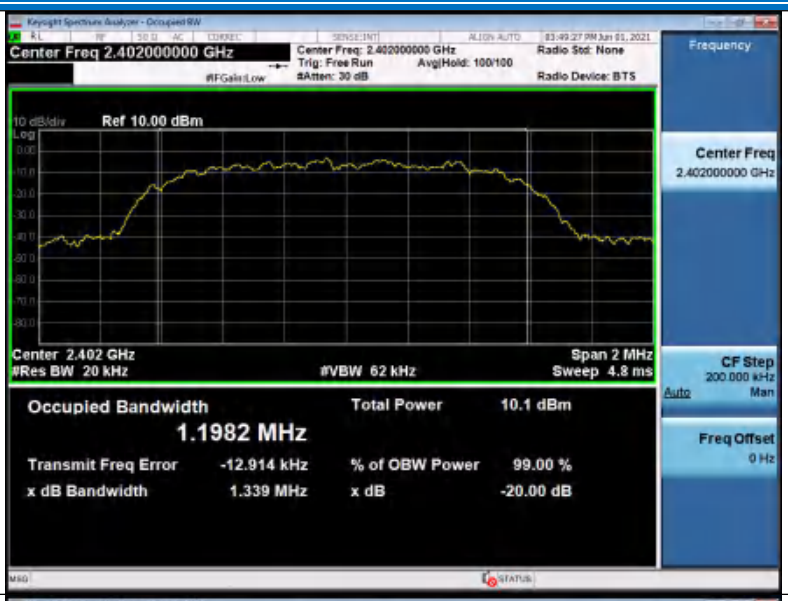
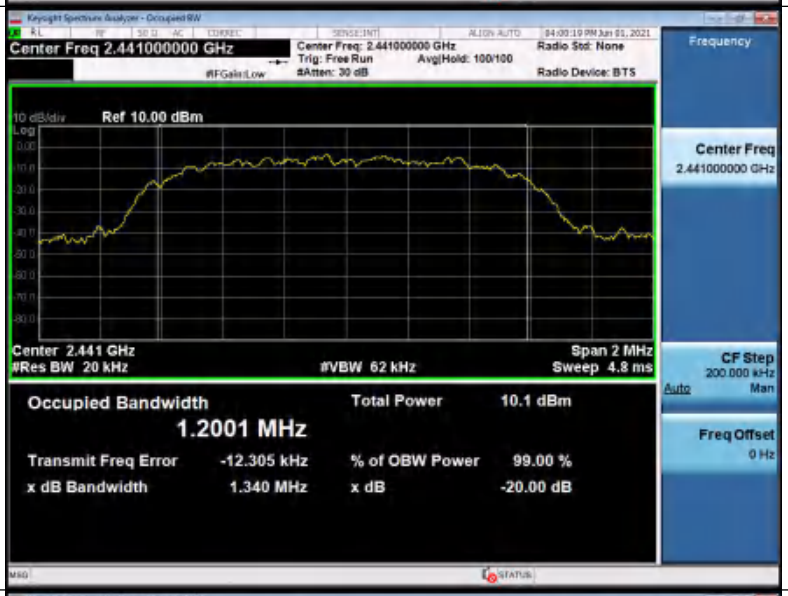
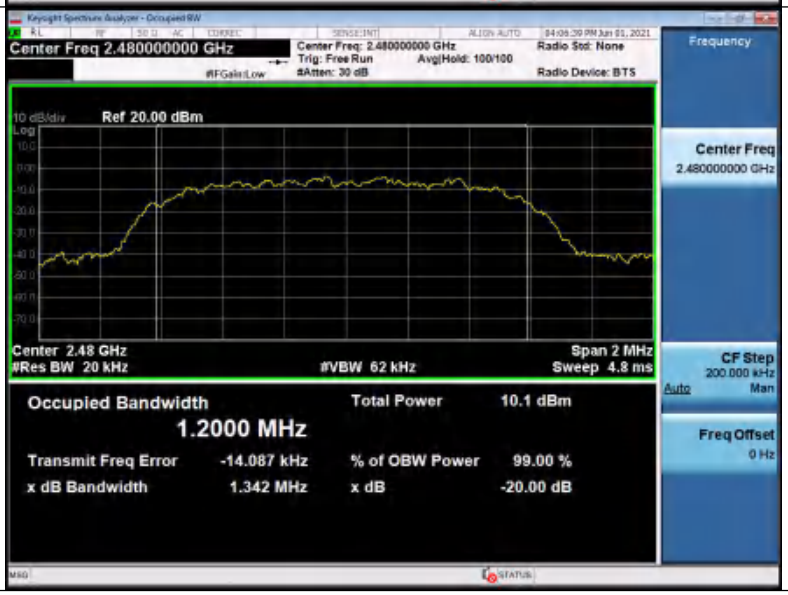
Measurement Data

Test channel	20dB Occupy Bandwidth (MHz)		
	GFSK	π/4DQPSK	8DPSK
Lowest	0.9513	1.352	1.339
Middle	0.9509	1.346	1.340
Highest	0.9510	1.352	1.342

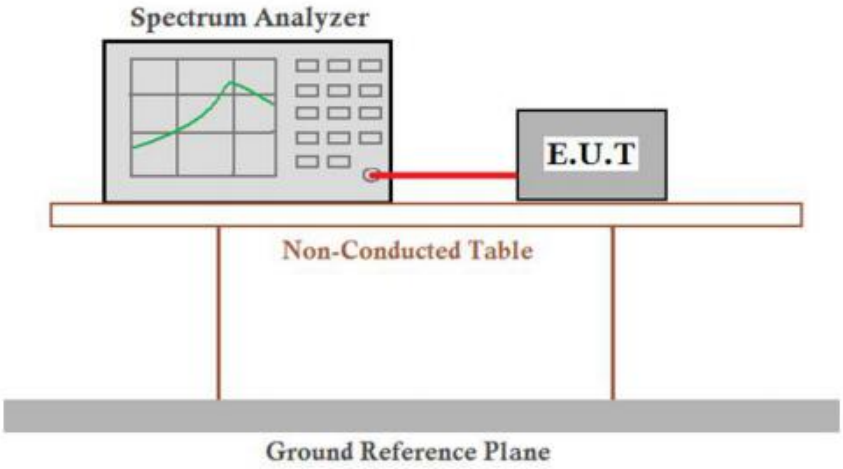
Test plot as follows:

Graphs		
GFSK/LCH		
GFSK/MCH		
GFSK/HCH		

π/4DQPSK/LCH		
π/4DQPSK/MCH		
π/4DQPSK/HCH		

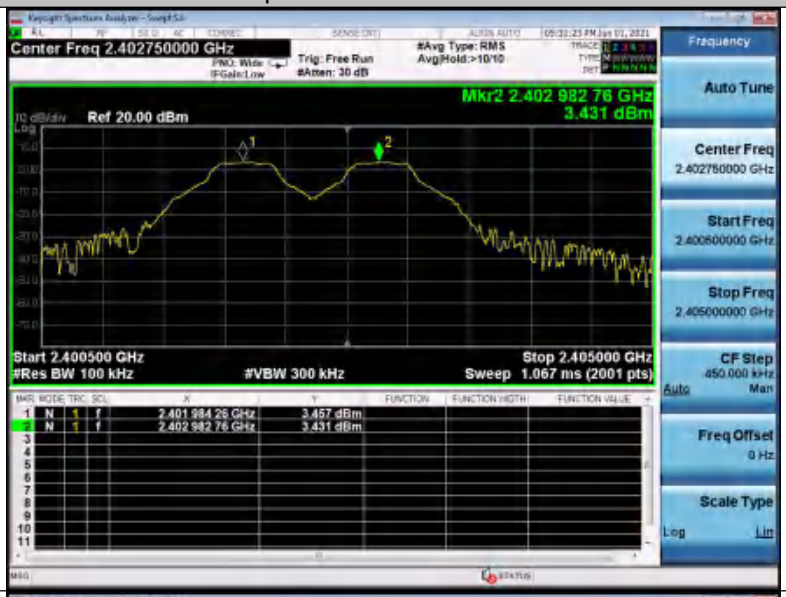
8DPSK/LCH		
8DPSK/MCH		
8DPSK/HCH		

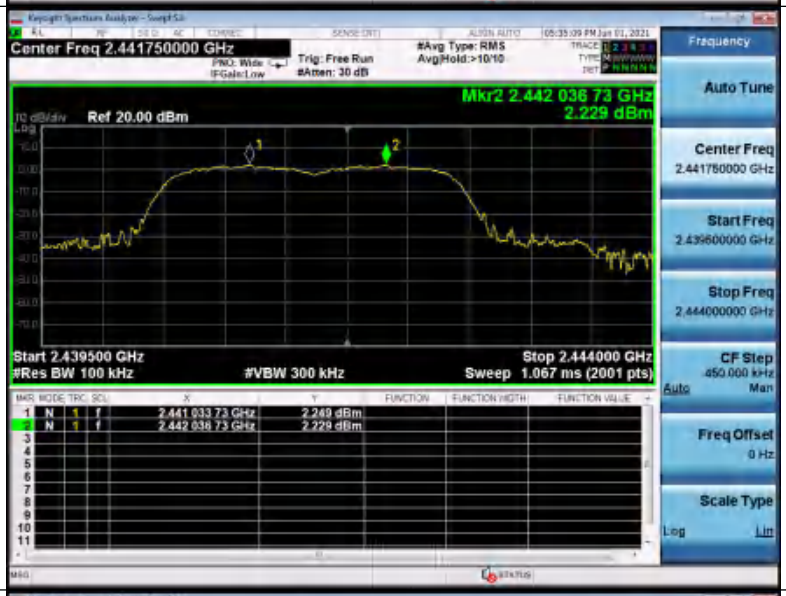
5.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK	CH00	0.994	25KHz or 2/3*20dB bandwidth	Pass
	CH01			
	CH39	0.976		
	CH40			
	CH77	1.048		
	CH78			
pi/4DQPSK	CH00	1.003	25KHz or 2/3*20dB bandwidth	Pass
	CH01			
	CH39	1.003		
	CH40			
	CH77	0.987		
	CH78			
8DPSK	CH00	1.010	25KHz or 2/3*20dB bandwidth	Pass
	CH01			
	CH39	1.007		
	CH40			
	CH77	0.999		
	CH78			

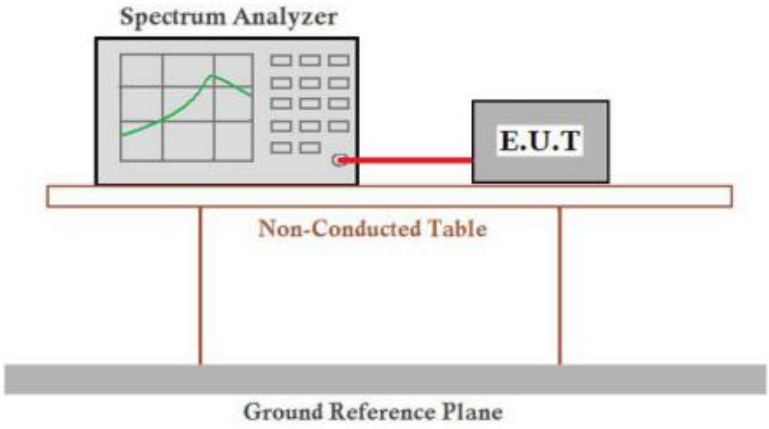
Test plot as follows:

Graphs		
GFSK/LCH		
GFSK/MCH		
GFSK/HCH		

π/4DQPSK/LCH		
π/4DQPSK/MCH		
π/4DQPSK/HCH		

8DPSK/LCH		
8DPSK/MCH		
8DPSK/HCH		

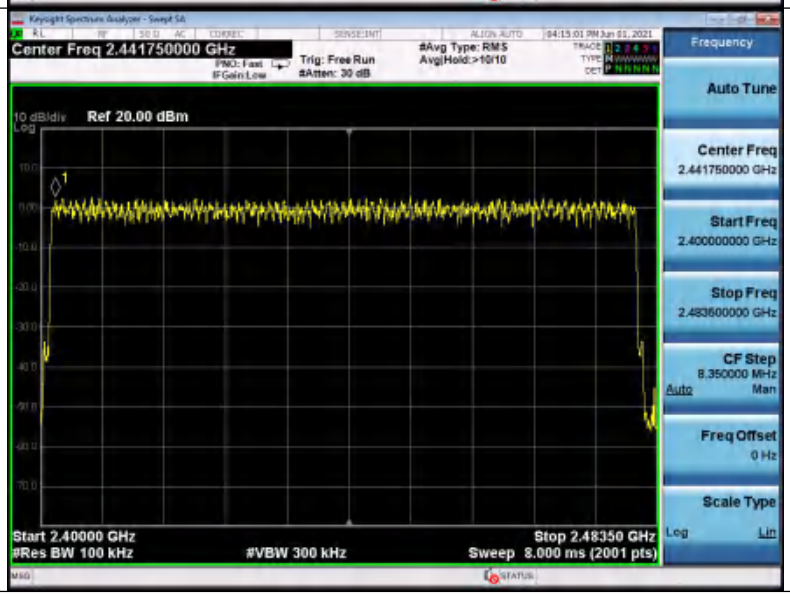
5.6 Hopping Channel Number

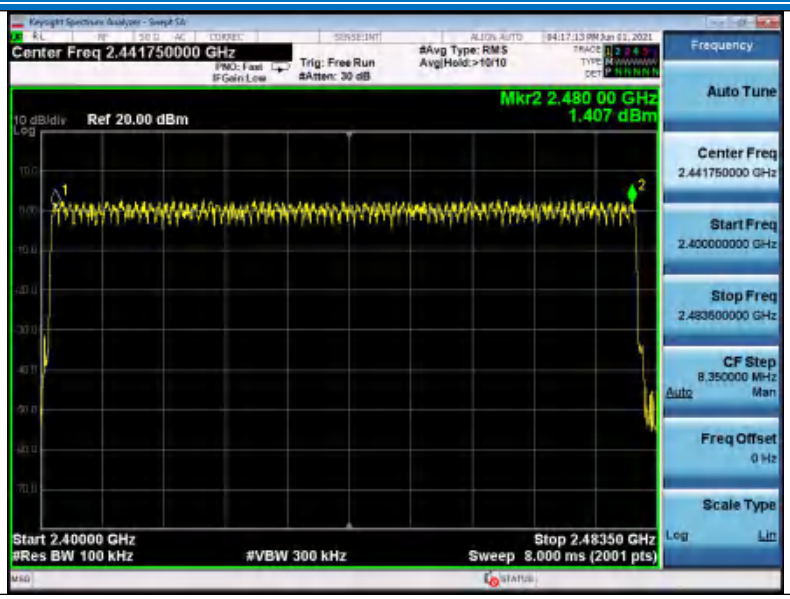
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=Cable loss+ attenuation factor.*
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

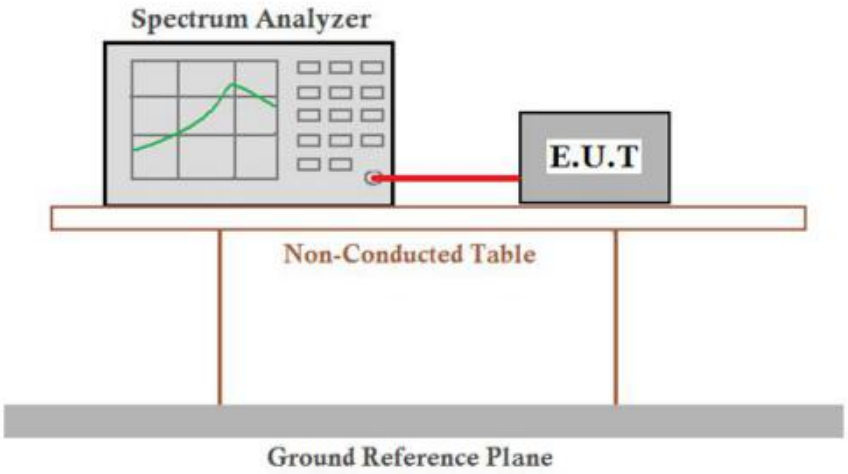
Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15

Test plot as follows:

Graphs			
GFSK/Hop			
π/4DQPSK/Hop			

8DPSK/Hop		 Center Freq 2.441750000 GHz Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg|Hold:>10/10 Frequency Mkr2 2.480 00 GHz 1.407 dBm 10 dB/div Log Ref 20.00 dBm Auto Tune Center Freq 2.441750000 GHz Start Freq 2.400000000 GHz Stop Freq 2.483500000 GHz CF Step 8.350000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin Start 2.40000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.48350 GHz Sweep 8.000 ms (2001 pts)

5.7 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=Cable loss+ attenuation factor.*
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

Measurement Data

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Dwell Time[ms]	Limit (second)
GFSK	DH1	LCH	0.3816	122.112	≤0.4
GFSK	DH1	MCH	0.3828	122.496	≤0.4
GFSK	DH1	HCH	0.3842	122.944	≤0.4
GFSK	DH3	LCH	1.652	264.320	≤0.4
GFSK	DH3	MCH	1.652	264.320	≤0.4
GFSK	DH3	HCH	1.654	264.640	≤0.4
GFSK	DH5	LCH	2.934	312.960	≤0.4
GFSK	DH5	MCH	2.944	314.027	≤0.4
GFSK	DH5	HCH	2.944	314.027	≤0.4
π/4DQPSK	2DH1	LCH	0.3835	122.720	≤0.4
π/4DQPSK	2DH1	MCH	0.3831	122.592	≤0.4
π/4DQPSK	2DH1	HCH	0.370	118.400	≤0.4
π/4DQPSK	2DH3	LCH	1.644	263.040	≤0.4
π/4DQPSK	2DH3	MCH	1.657	265.120	≤0.4
π/4DQPSK	2DH3	HCH	1.654	264.640	≤0.4
π/4DQPSK	2DH5	LCH	2.928	312.320	≤0.4
π/4DQPSK	2DH5	MCH	2.939	313.493	≤0.4
π/4DQPSK	2DH5	HCH	2.934	312.960	≤0.4
8DPSK	3DH1	LCH	0.3835	122.720	≤0.4
8DPSK	3DH1	MCH	0.3826	122.432	≤0.4
8DPSK	3DH1	HCH	0.3830	122.560	≤0.4
8DPSK	3DH3	LCH	1.653	264.480	≤0.4
8DPSK	3DH3	MCH	1.670	267.200	≤0.4
8DPSK	3DH3	HCH	1.672	267.520	≤0.4
8DPSK	3DH5	LCH	2.917	311.147	≤0.4
8DPSK	3DH5	MCH	2.929	312.427	≤0.4
8DPSK	3DH5	HCH	2.928	312.320	≤0.4

Remark:

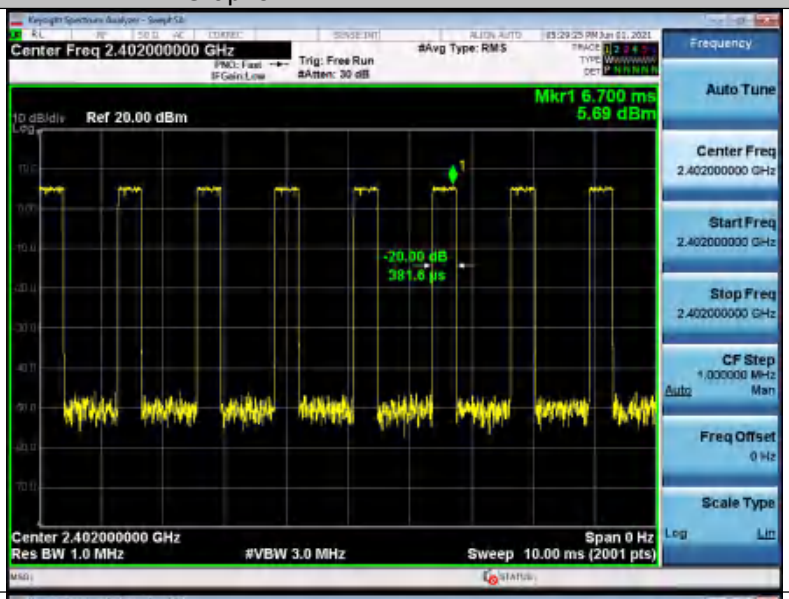
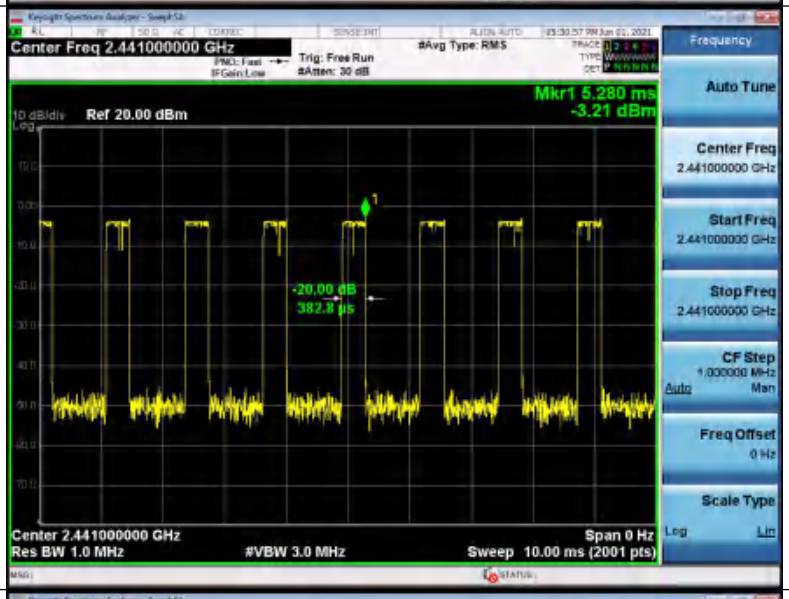
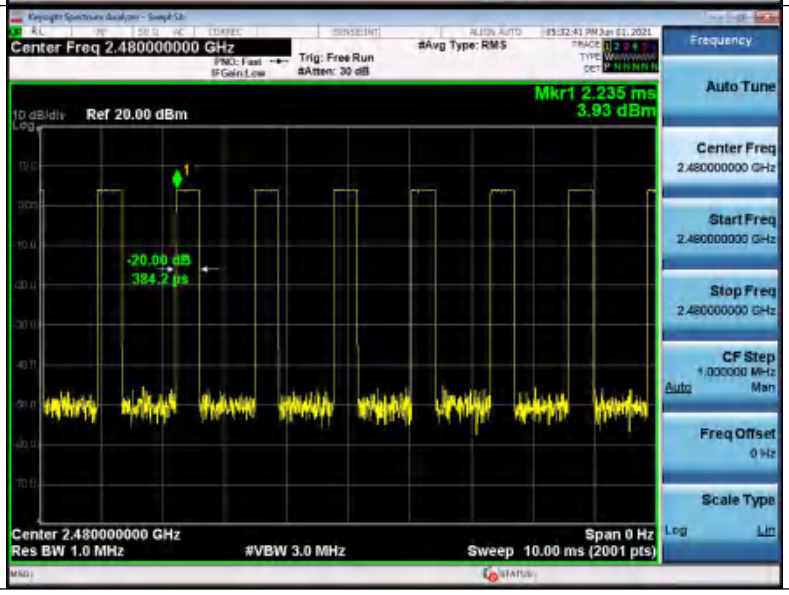
The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

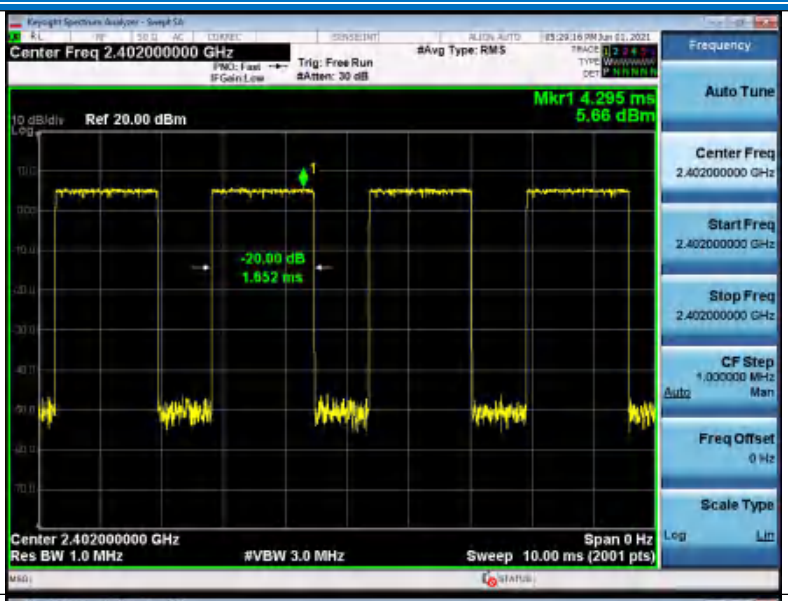
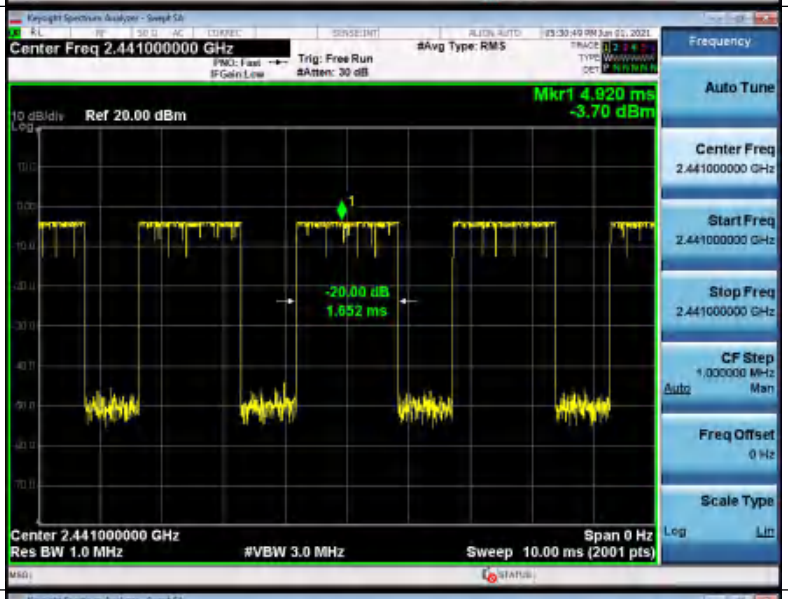
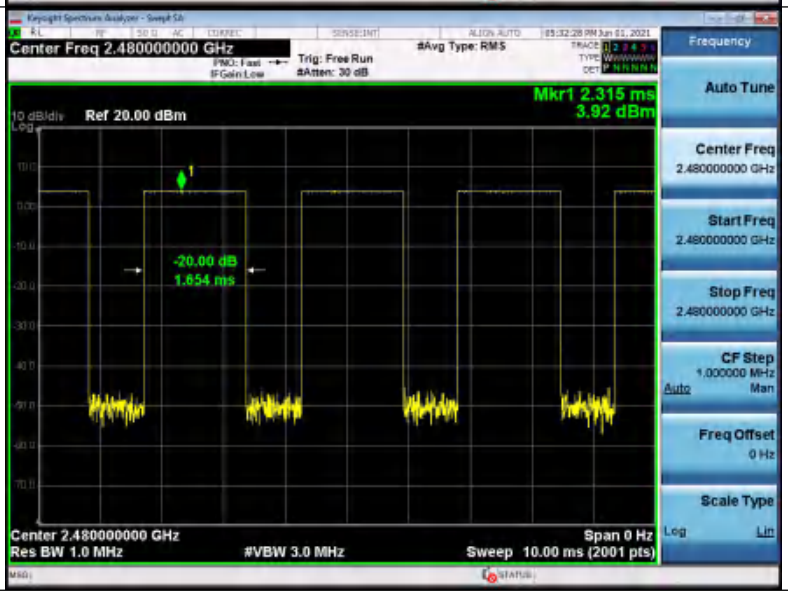
DH1/2DH1 Dwell time = Burst Width(ms)*(1600/ (2*79))*31.6

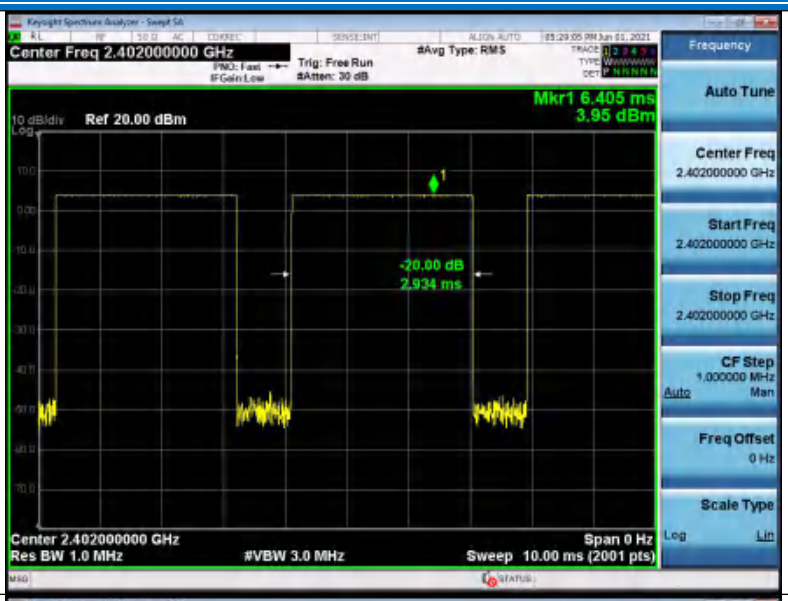
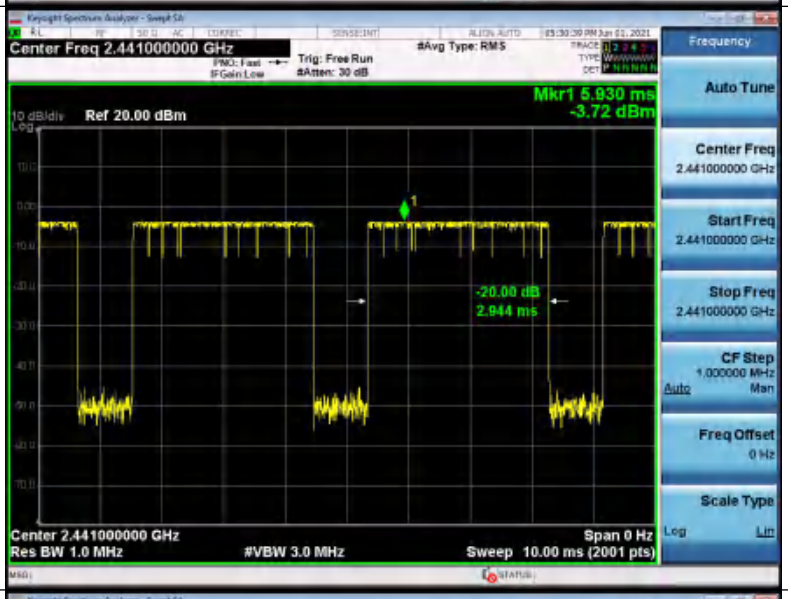
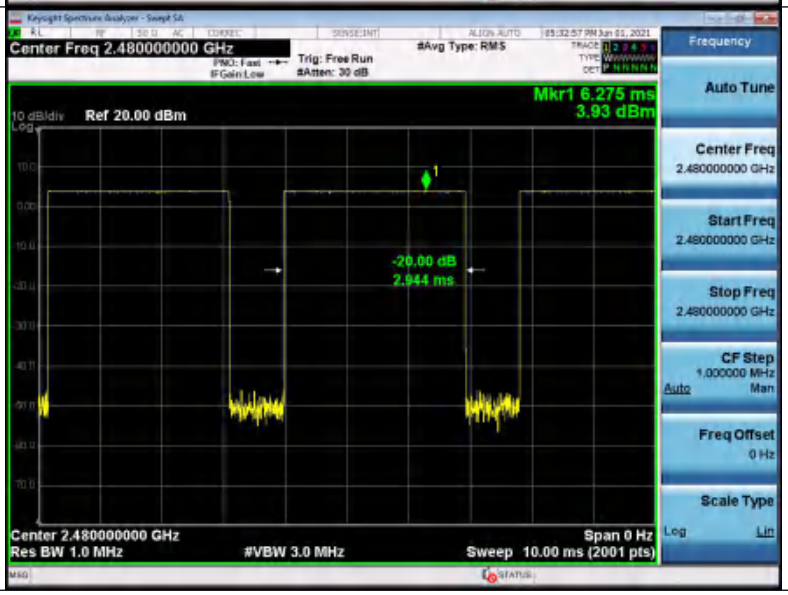
DH3/2DH3Dwell time = Burst Width (ms)*(1600/ (4*79))*31.6

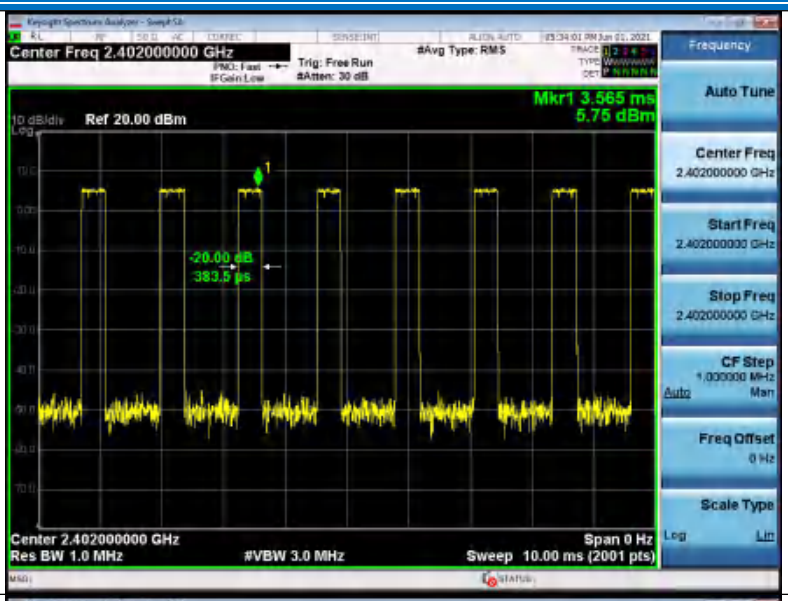
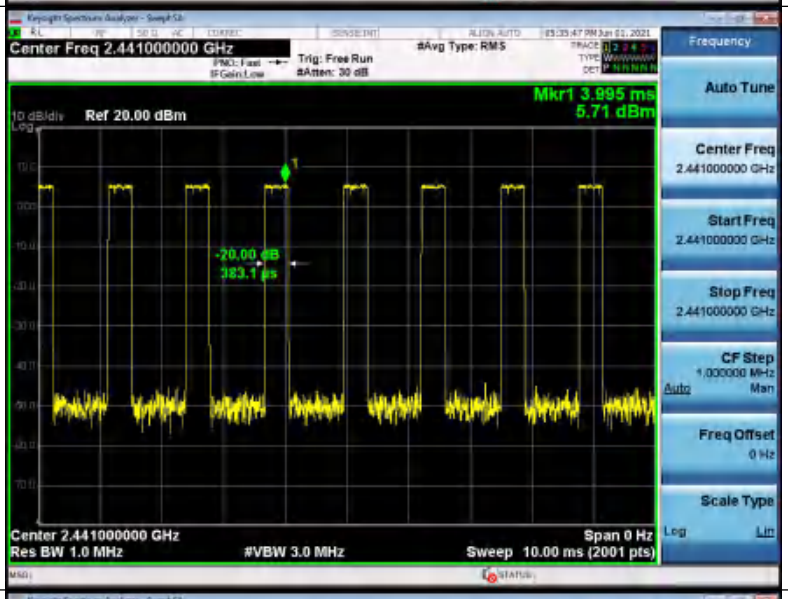
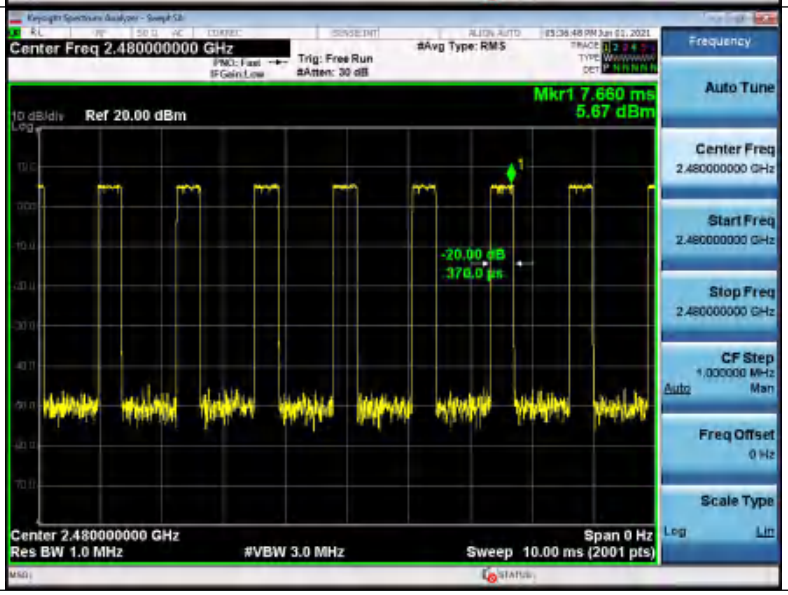
DH5/2DH5 Dwell time = Burst Width (ms)*(1600/ (6*79))*31.6

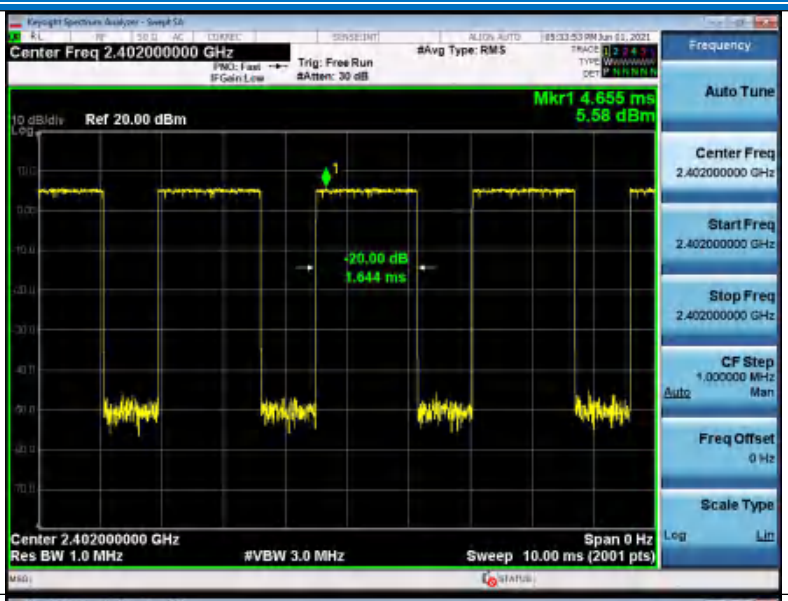
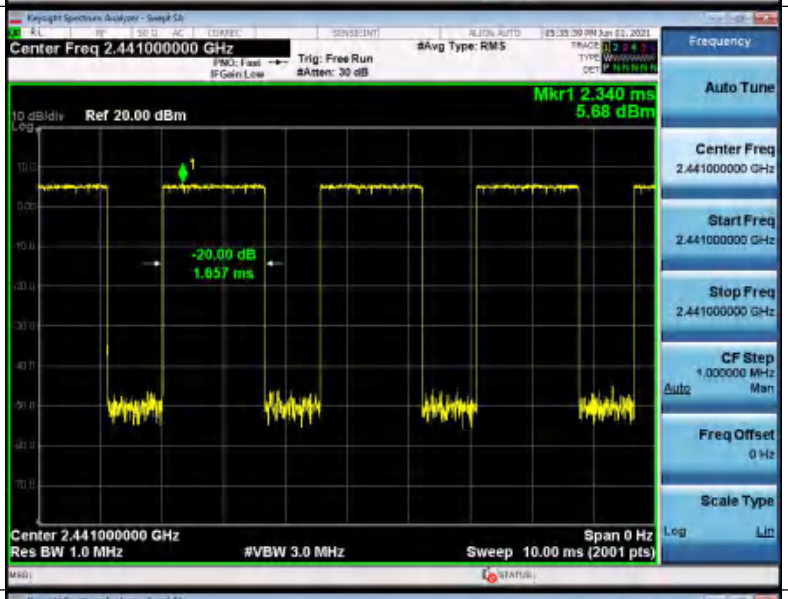
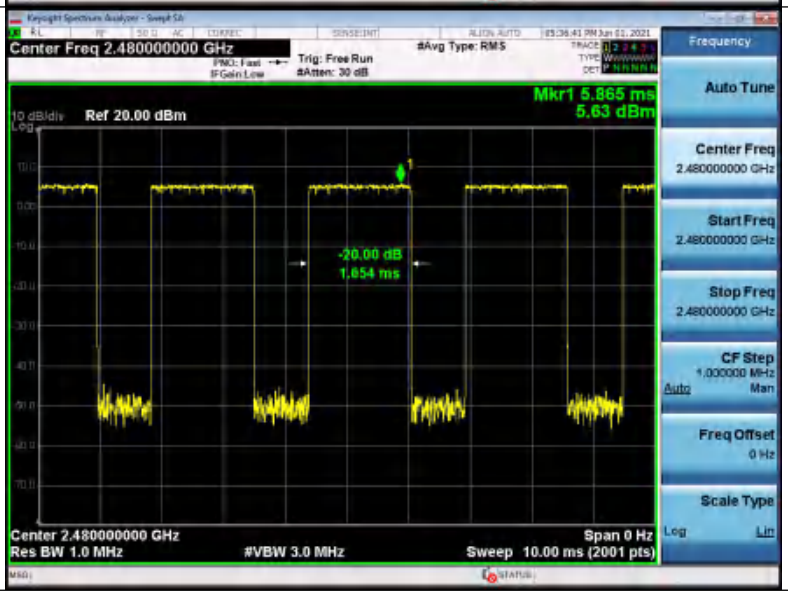
Test plot as follows:

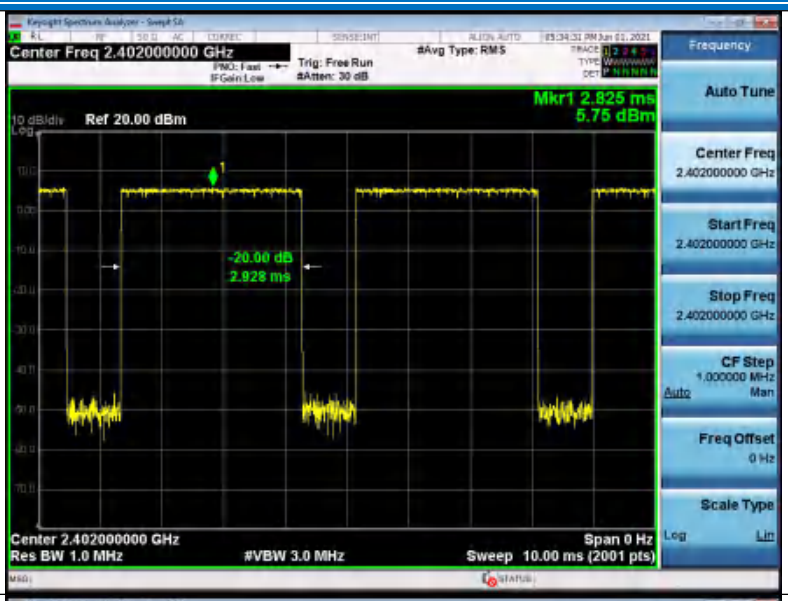
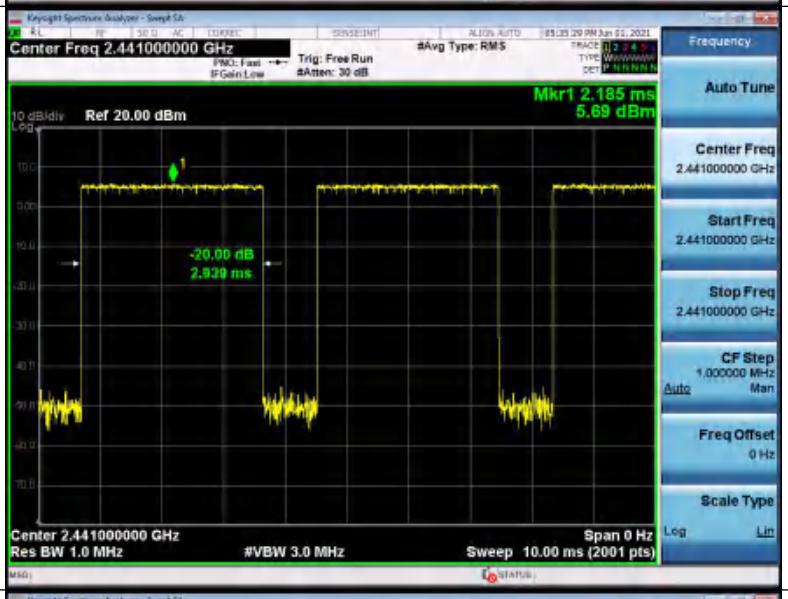
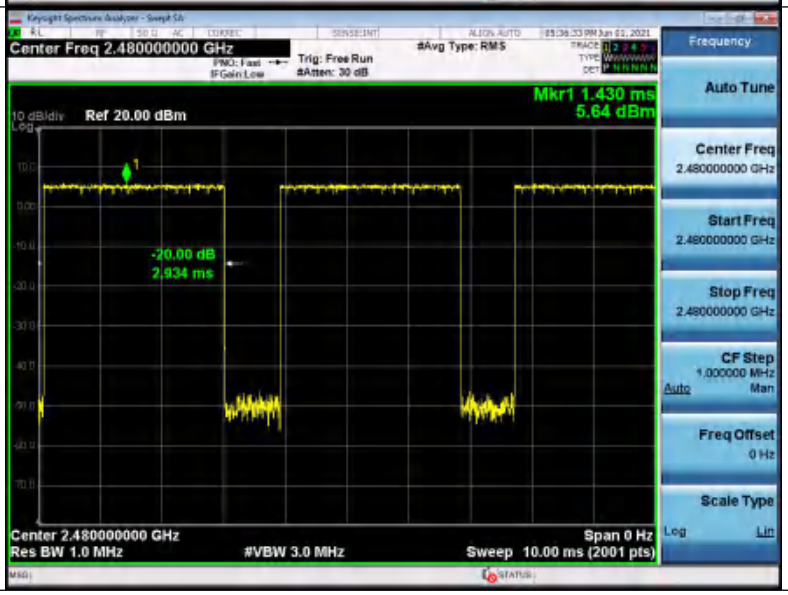
Graphs		
GFSK_DH1/LCH		
GFSK_DH1/MCH		
GFSK_DH1/HCH		

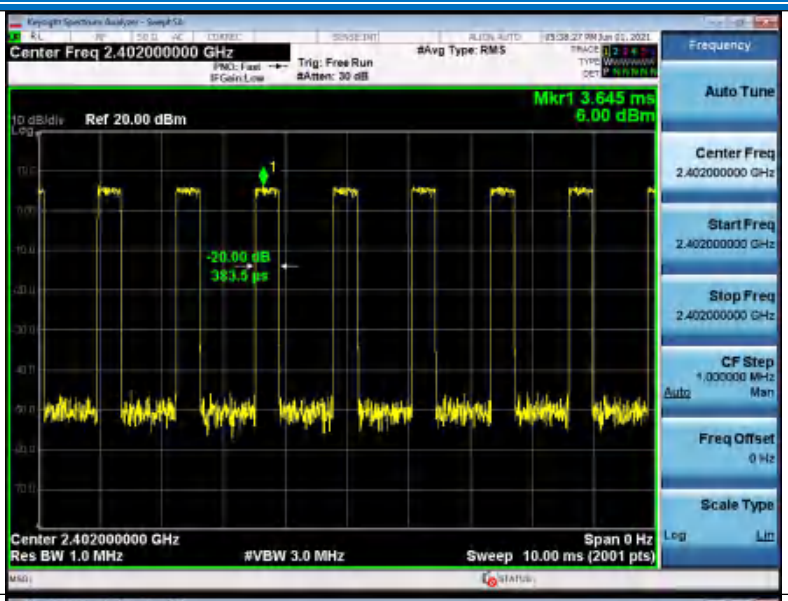
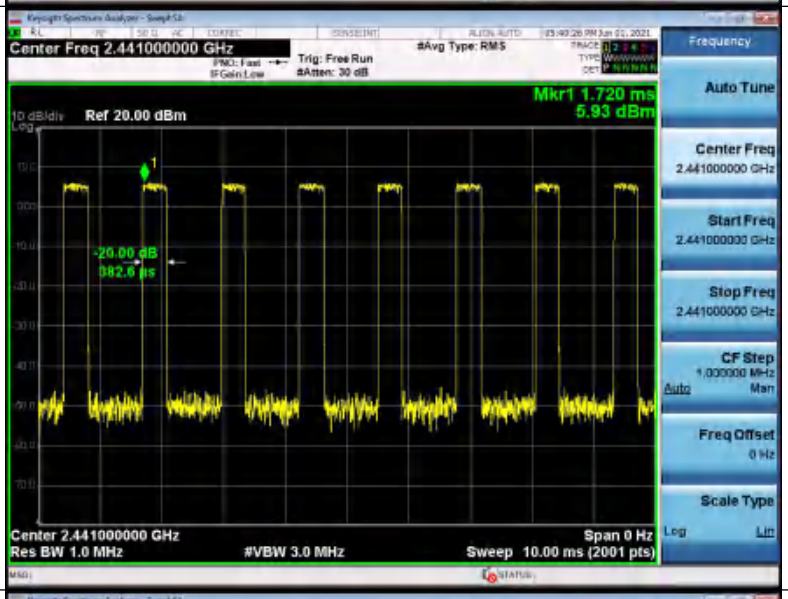
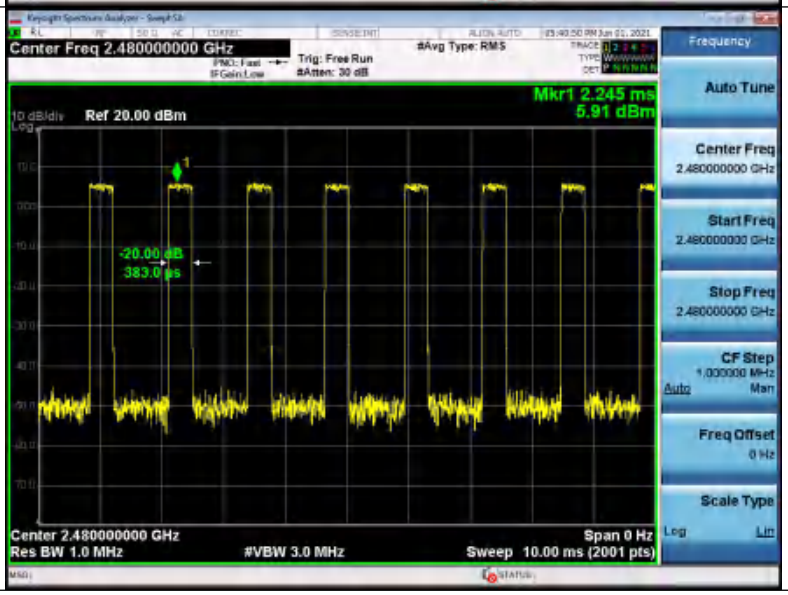
GFSK_DH3/LCH		
GFSK_DH3/MCH		
GFSK_DH3/HCH		

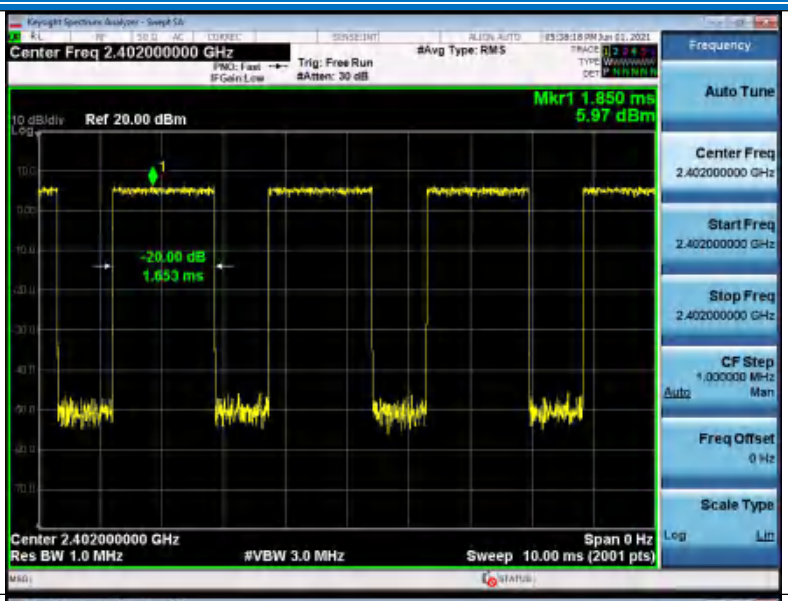
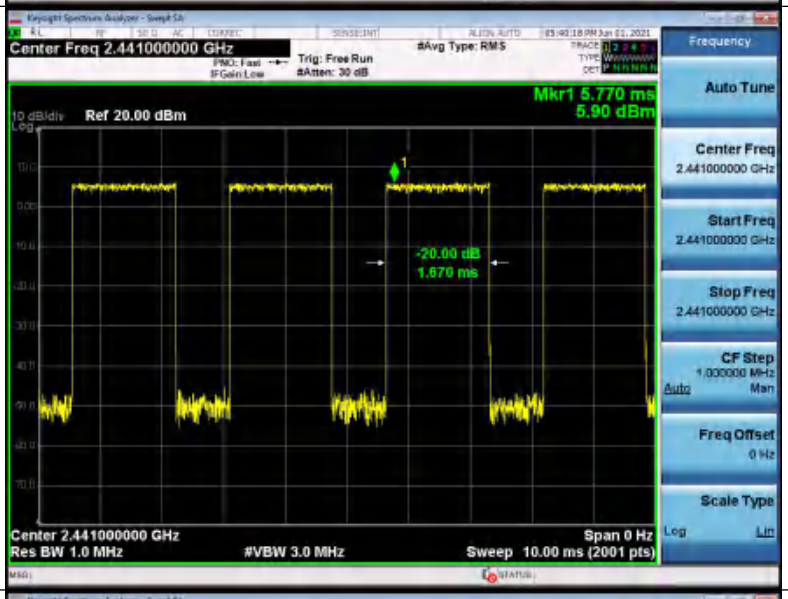
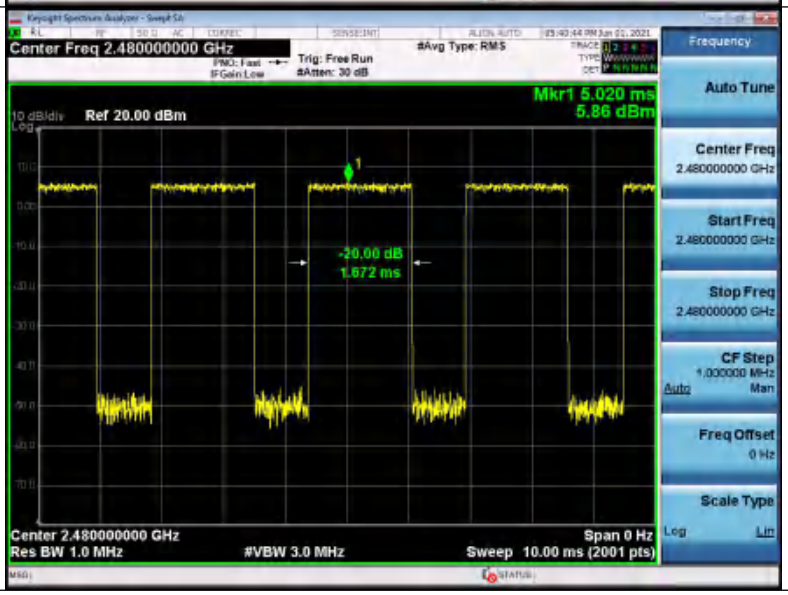
GFSK_DH5/LCH		
GFSK_DH5/MCH		
GFSK_DH5/HCH		

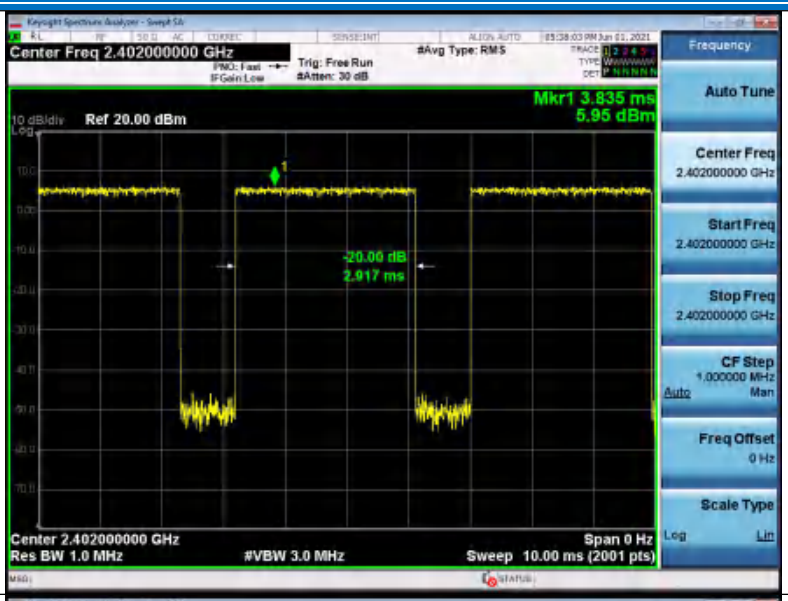
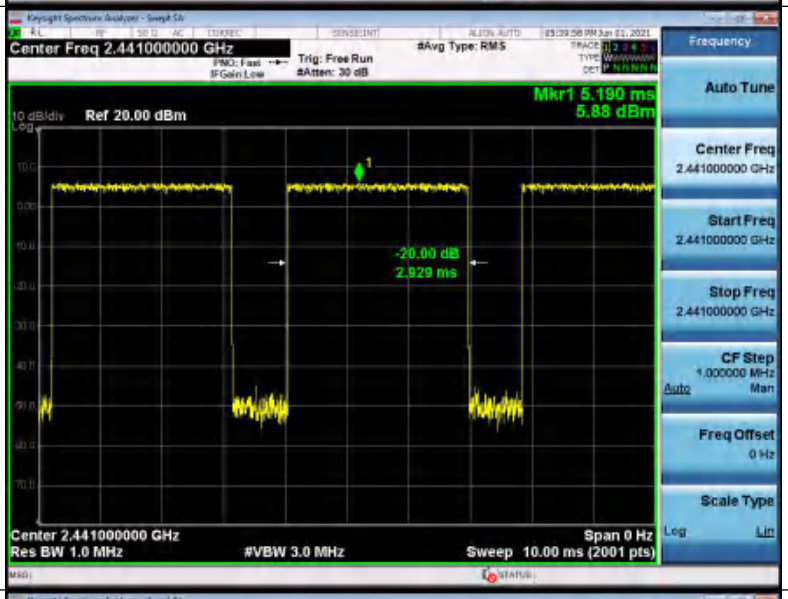
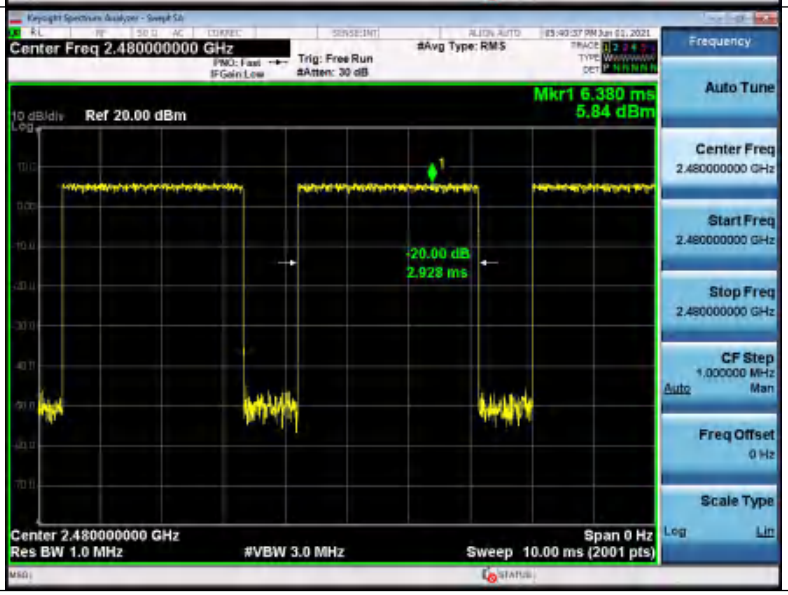
π/4DQPSK _2DH1/LCH		
π/4DQPSK _2DH1/MCH		
π/4DQPSK _2DH1/HCH		

π/4DQPSK _2DH3/LCH		
π/4DQPSK _2DH3/MCH		
π/4DQPSK _2DH3/HCH		

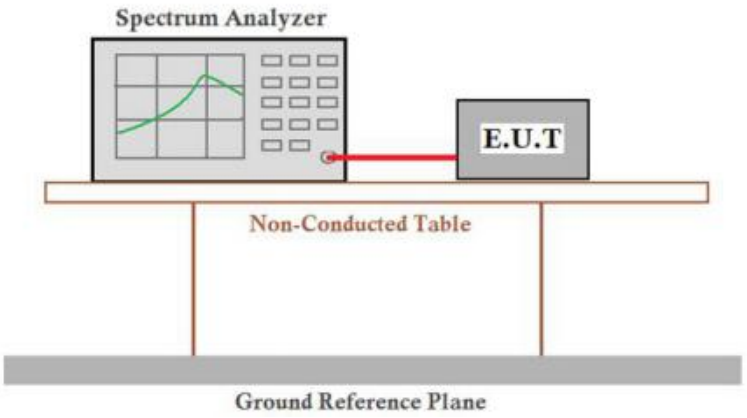
π/4DQPSK _2DH5/LCH		
π/4DQPSK _2DH5/MCH		
π/4DQPSK _2DH5/HCH		

8DPSK _3DH1/LCH		
8DPSK _3DH1/MCH		
8DPSK _3DH1/HCH		

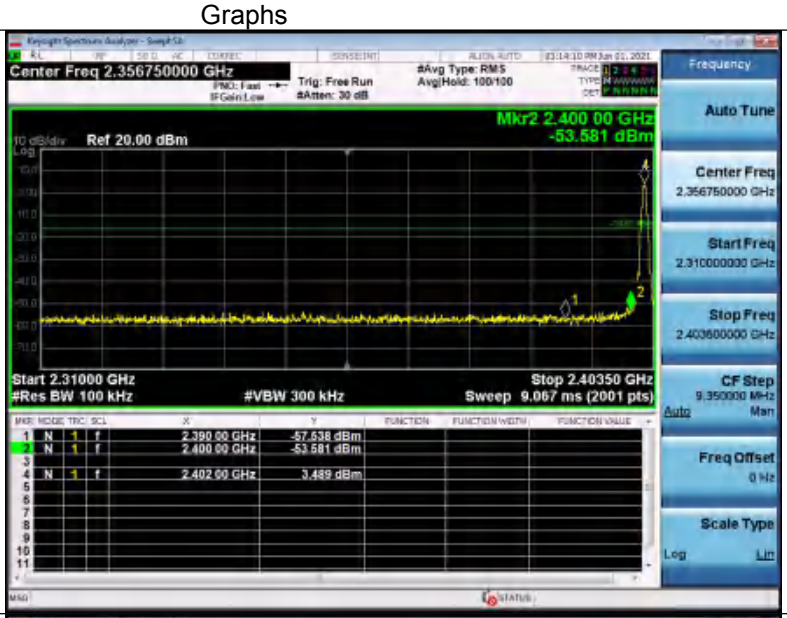
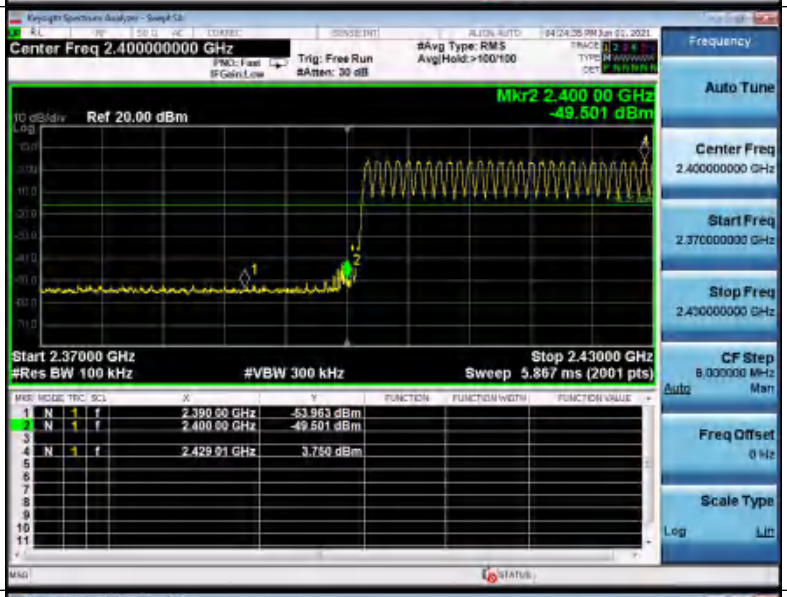
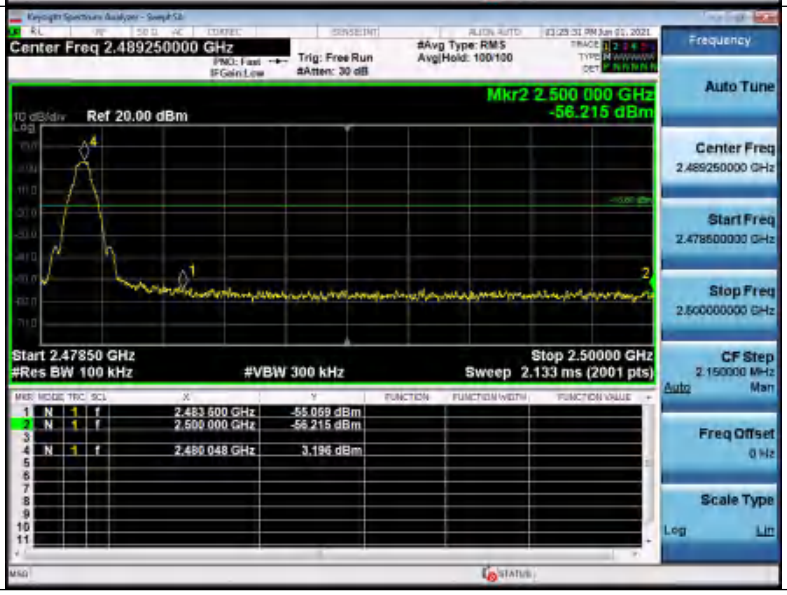
8DPSK _3DH3/LCH		
8DPSK _3DH3/MCH		
8DPSK _3DH3/HCH		

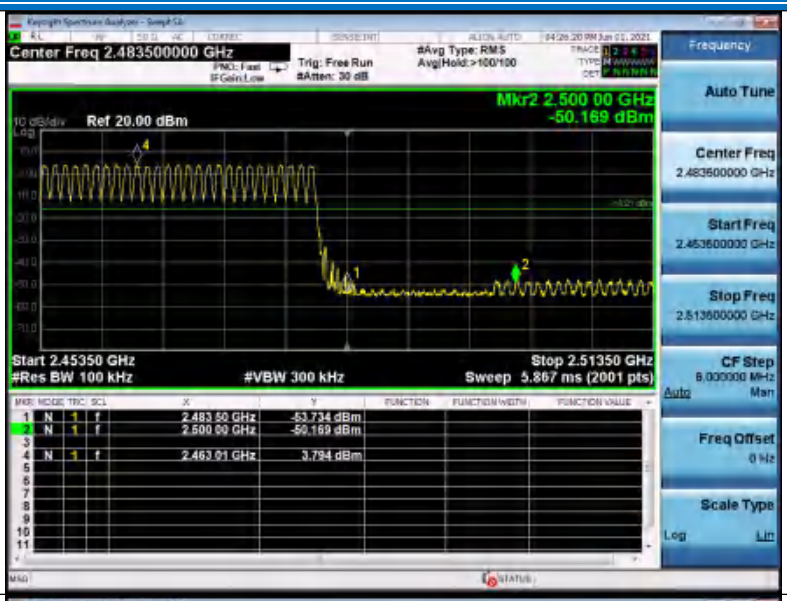
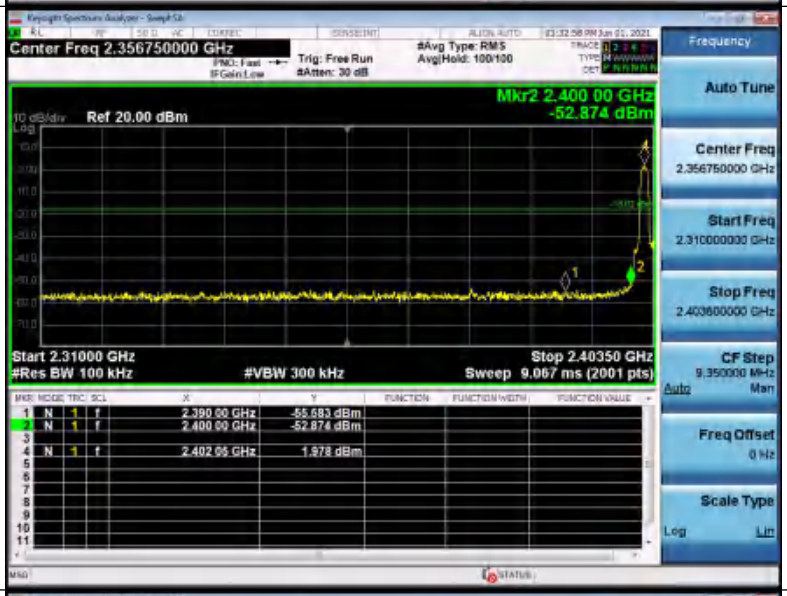
8DPSK _3DH5/LCH		
8DPSK _3DH5/MCH		
8DPSK _3DH5/HCH		

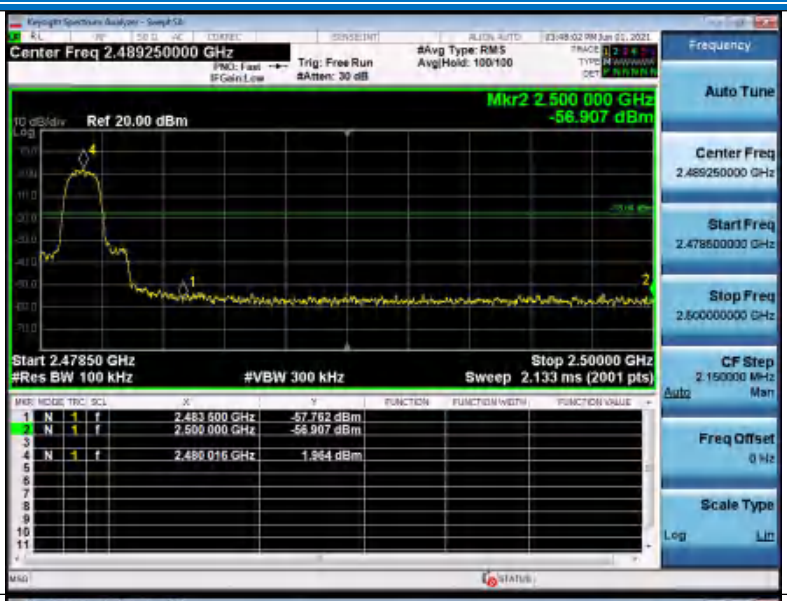
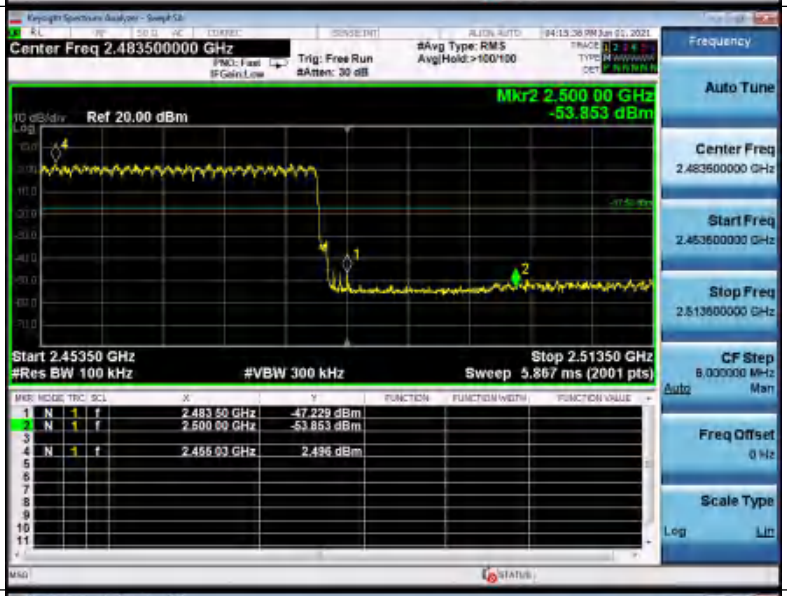
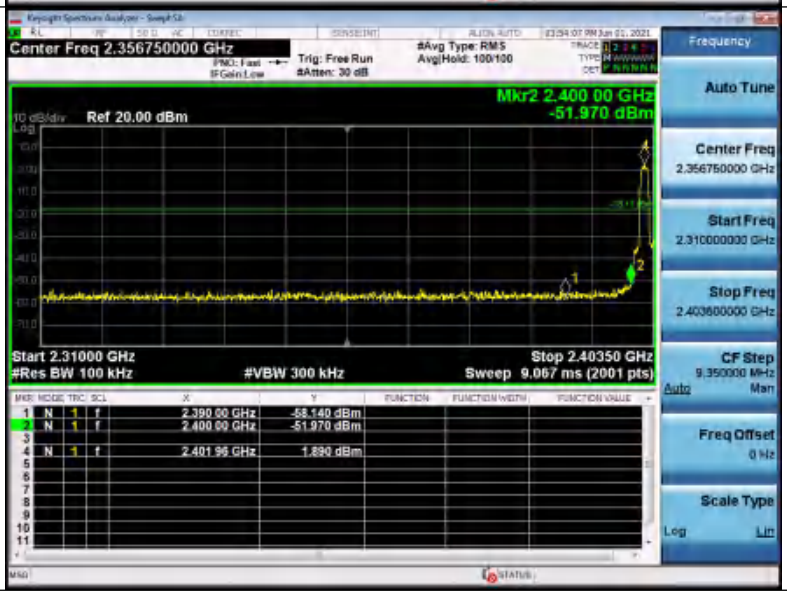
5.8 Band-edge for RF Conducted Emissions

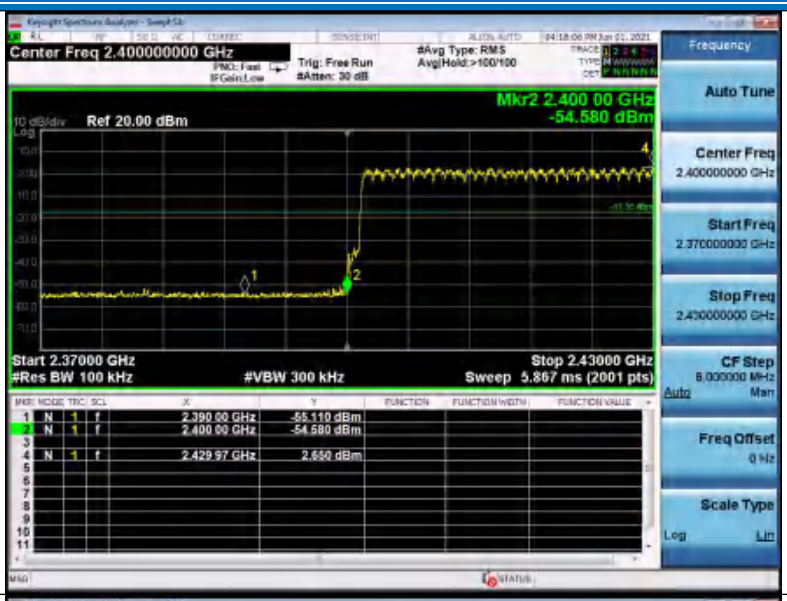
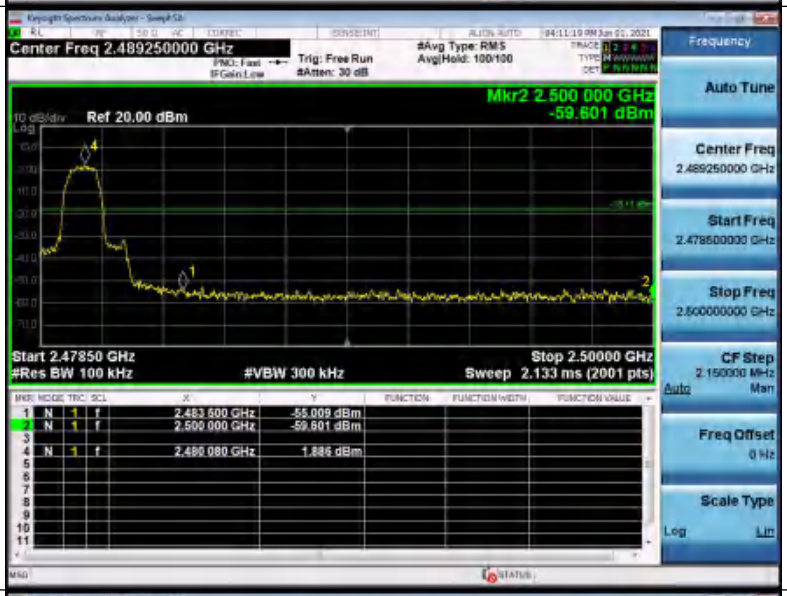
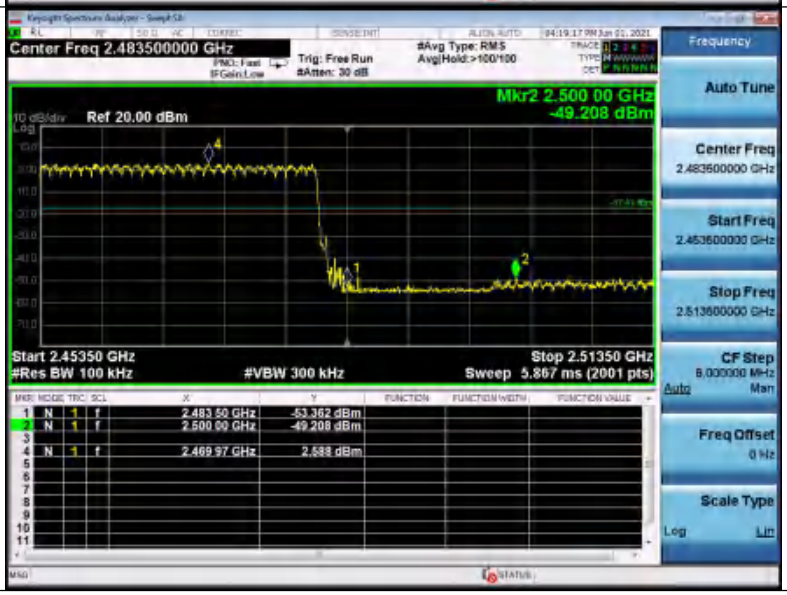
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=cable loss+ attenuation factor.*
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is 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.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Test plot as follows:

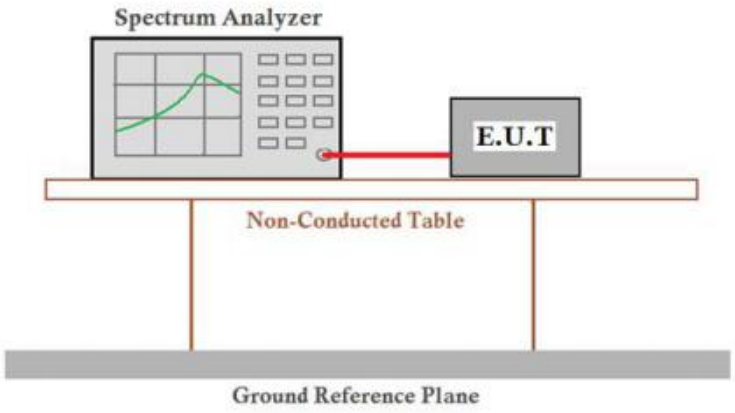
Graphs		
GFSK/LCH/No Hop		
GFSK/LCH/Hop		
GFSK/HCH/No Hop		

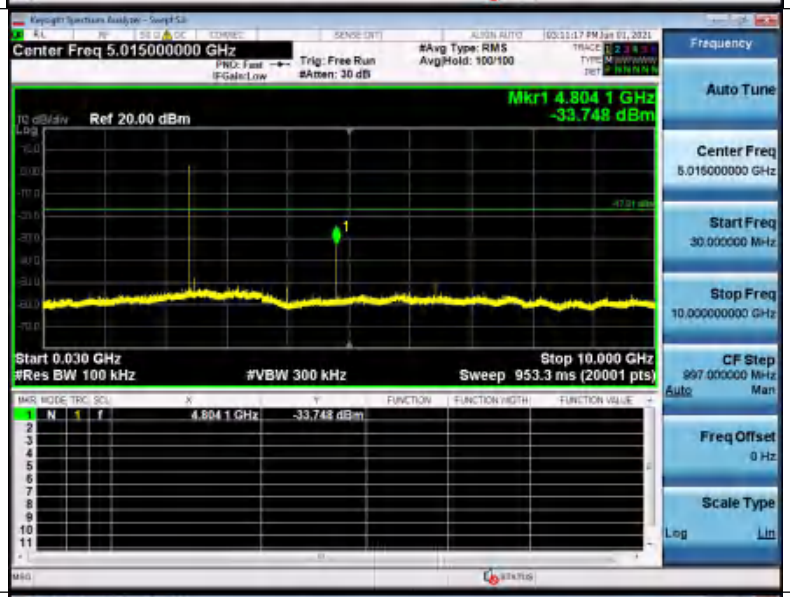
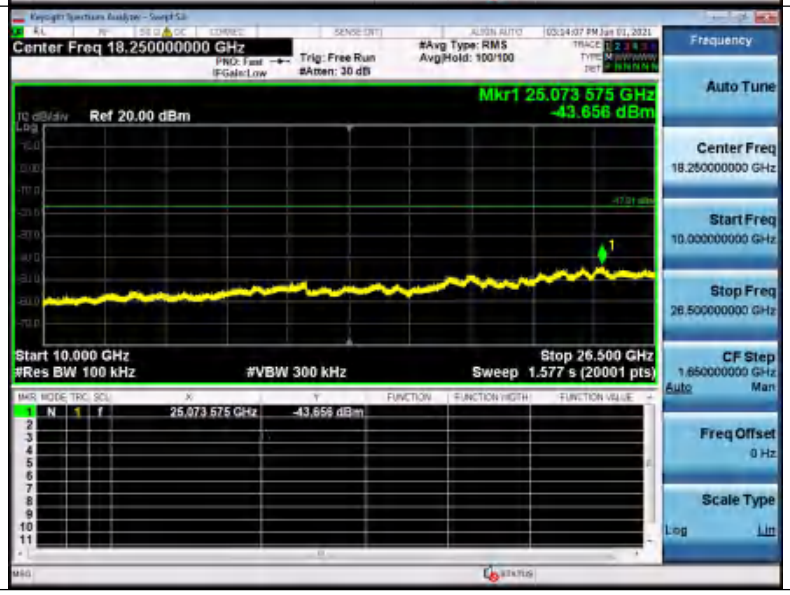
GFSK/HCH/Hop		
π/4DQPSK/LCH/No Hop		
π/4DQPSK/LCH/Hop		

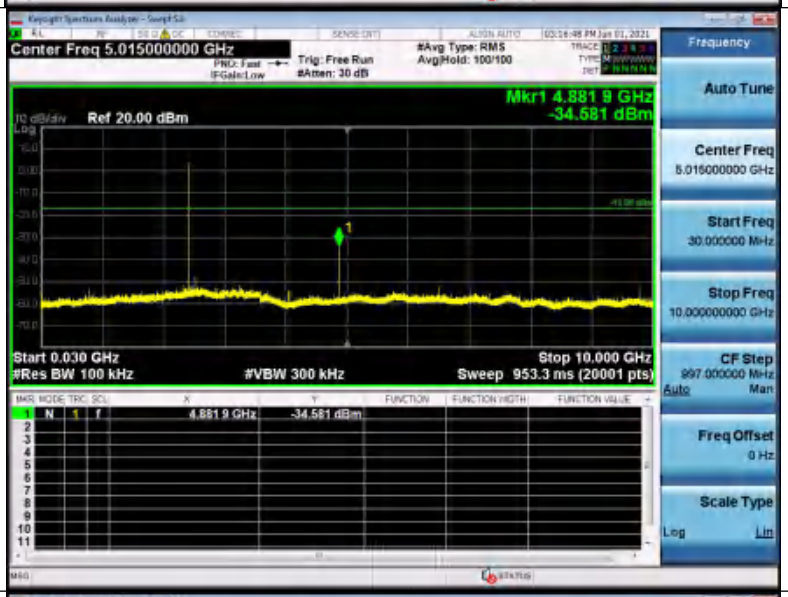
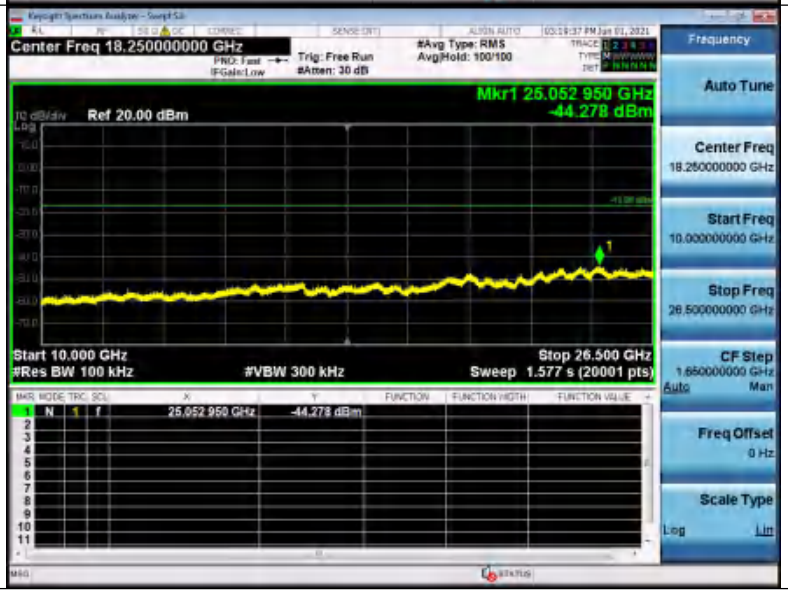
π/4DQPSK/HCH/No Hop		
π/4DQPSK/HCH/Hop		
8DPSK/LCH/ No Hop		

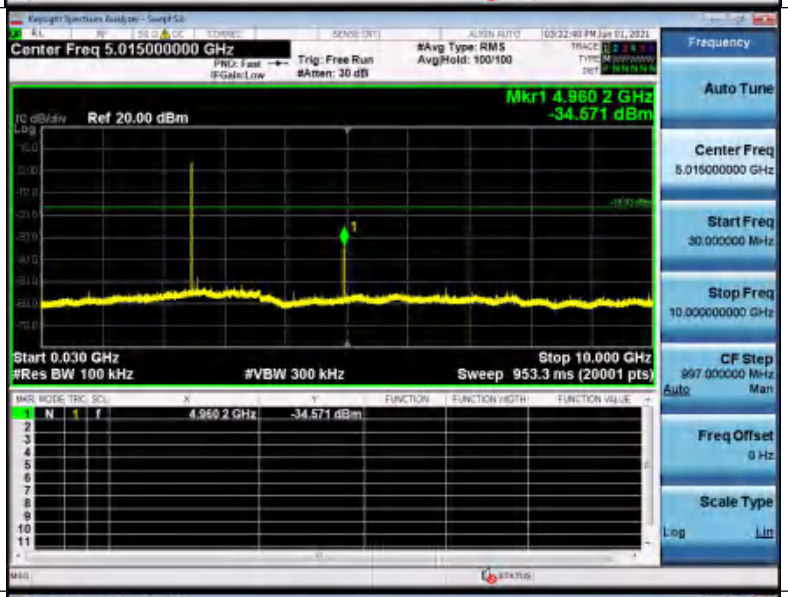
8DPSK /LCH/Hop		
8DPSK/HCH/No Hop		
8DPSK/HCH/Hop		

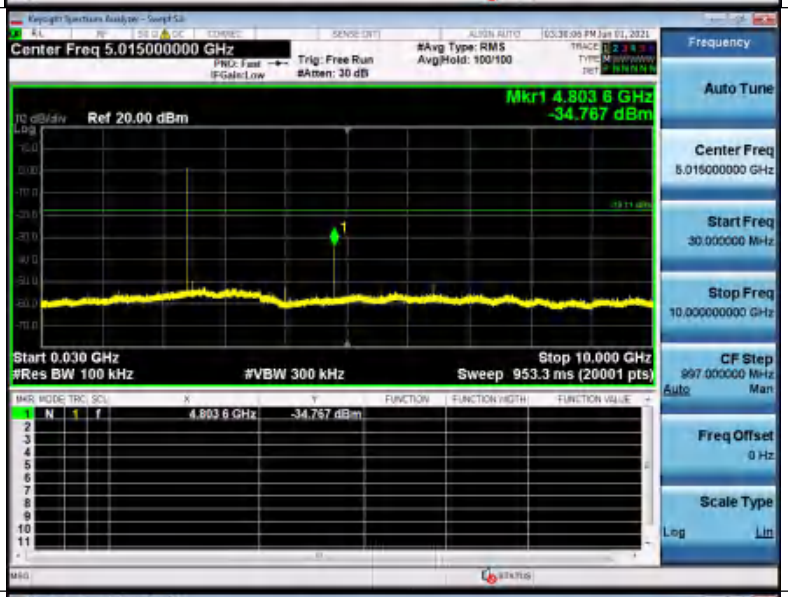
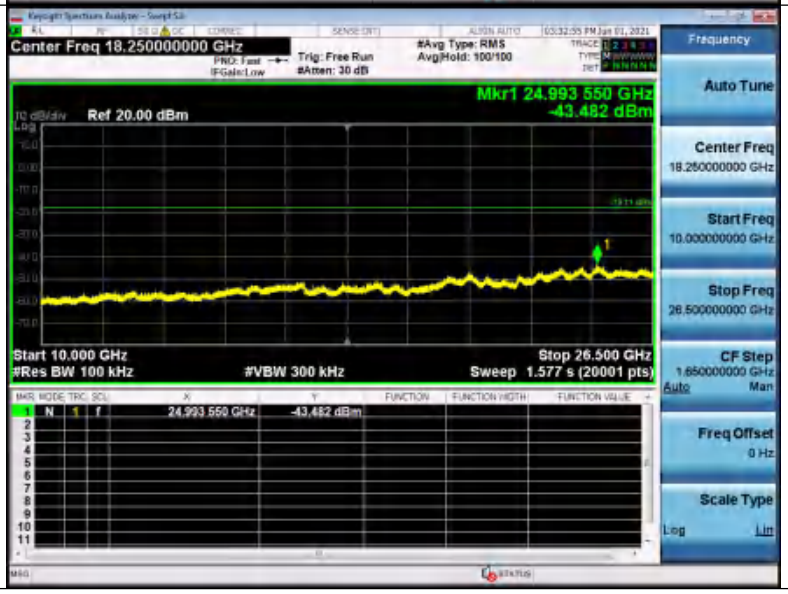
5.9 Spurious RF Conducted Emissions

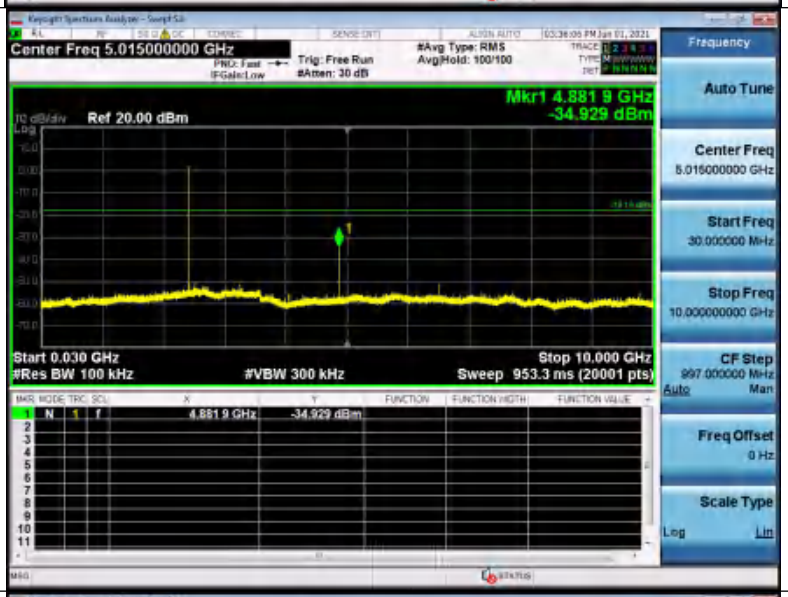
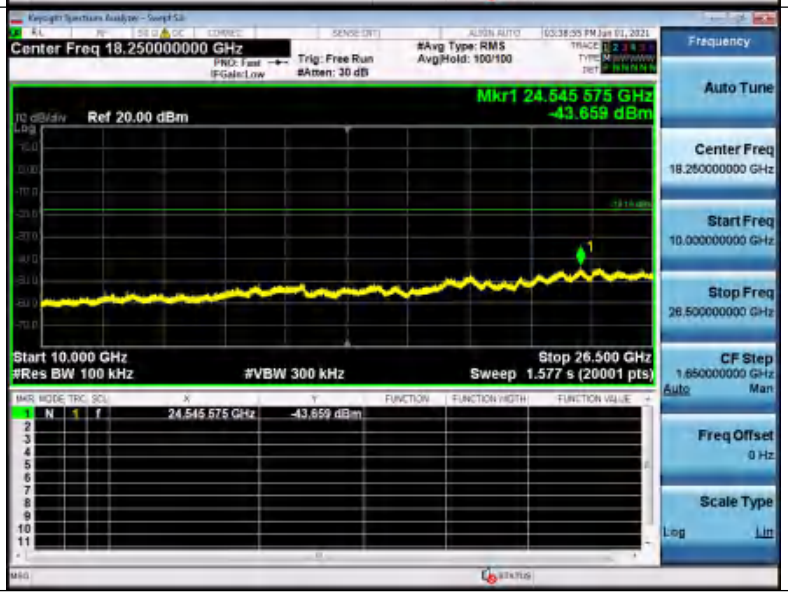
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	 *Remark: Offset=cable loss+ attenuation factor.*
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is 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.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Pass

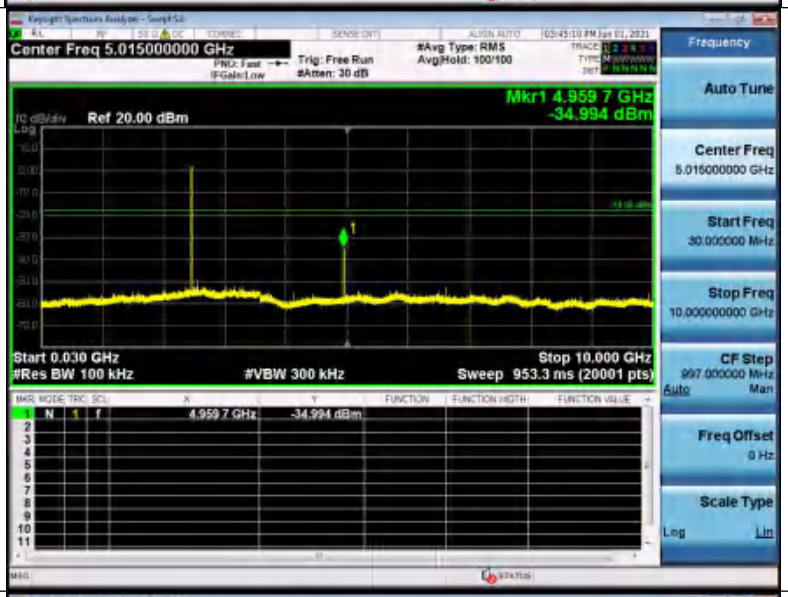
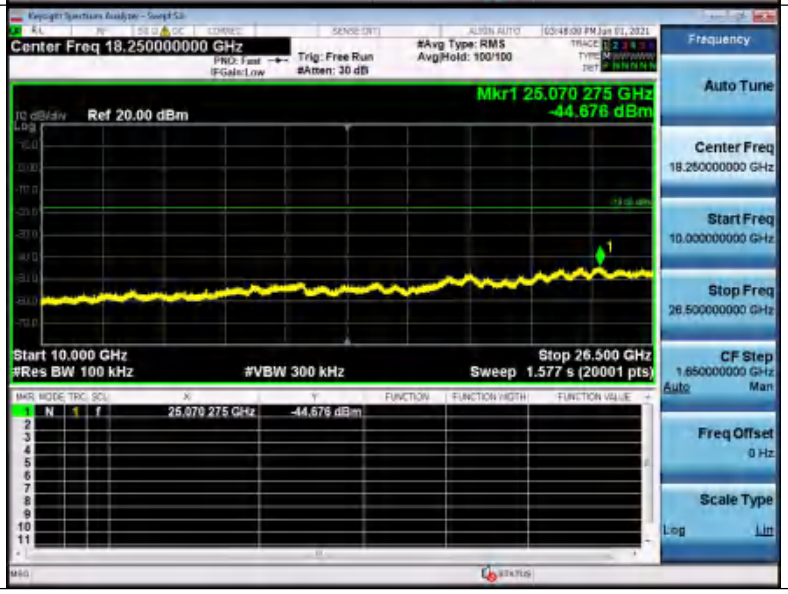
GFSK_LCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

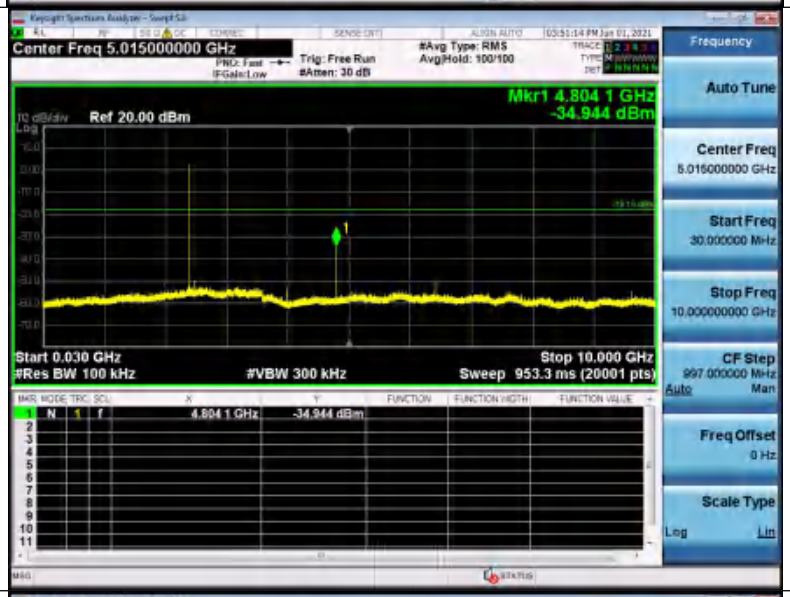
GFSK_MCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

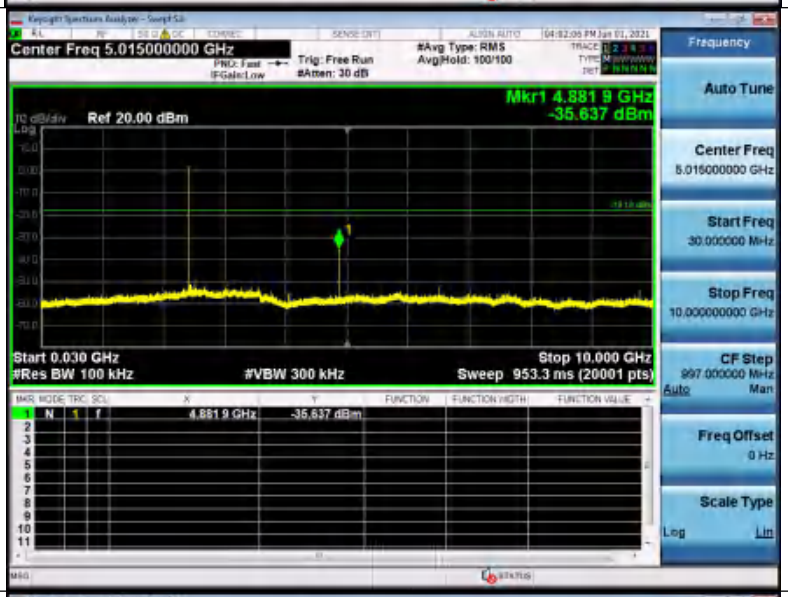
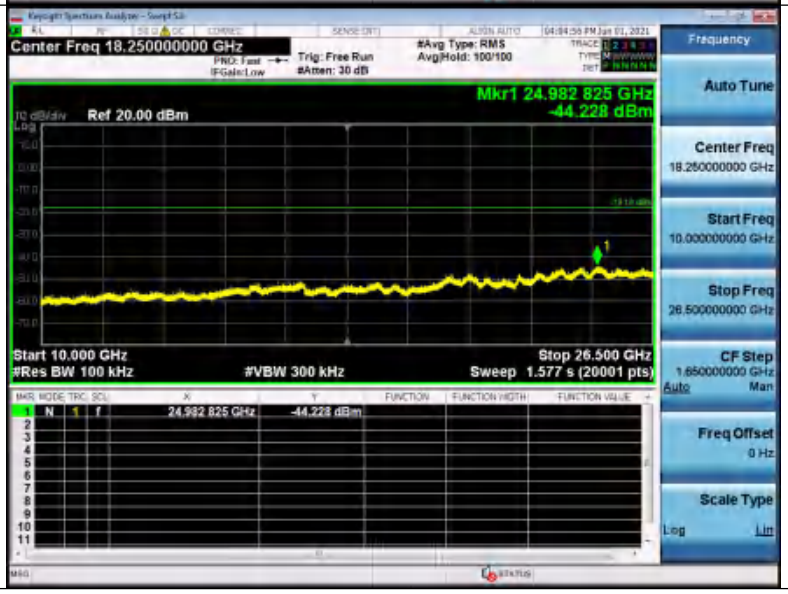
GFSK_HCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

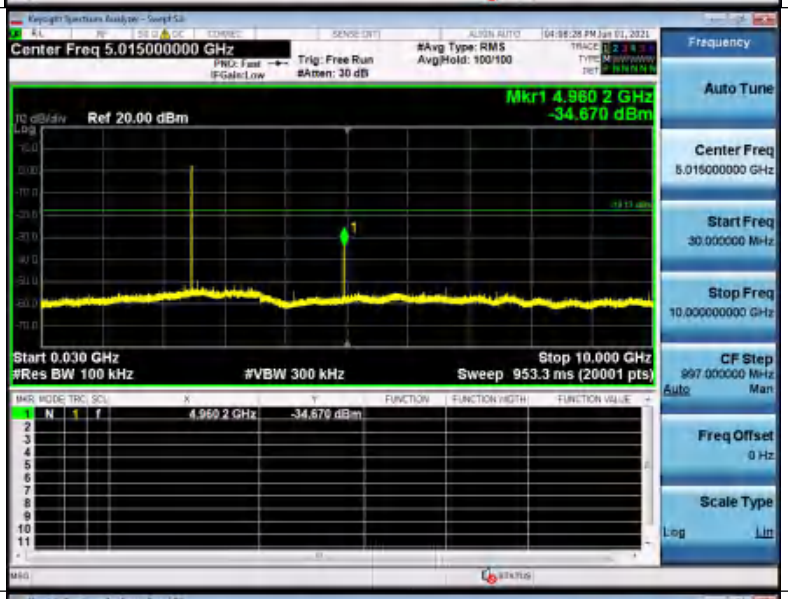
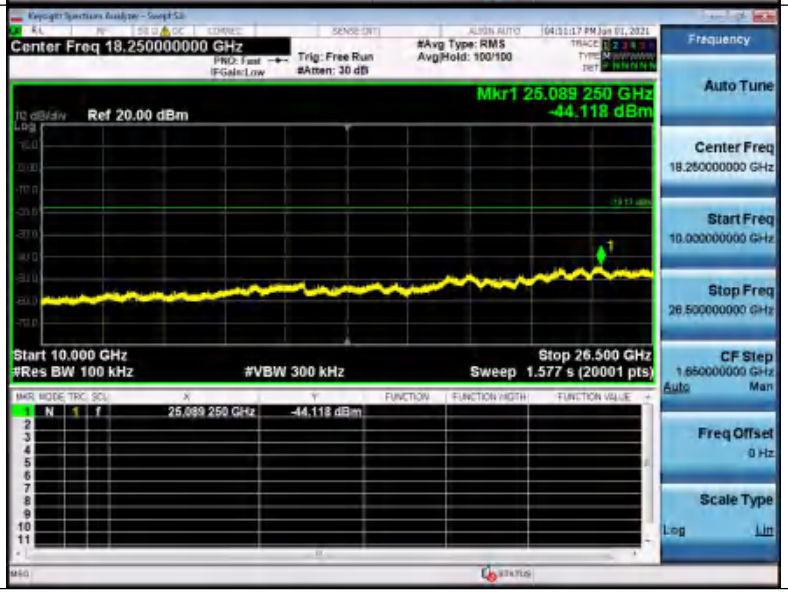
π/4DQPSK_LCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

π/4DQPSK_MCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

π/4DQPSK_HCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

8DPSK_LCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

8DPSK_MCH_Graphs			
Reference			
30MHz-10GHz			
10GHz-26.5GHz			

8DPSK_HCH_Graphs		
Reference		
30MHz-10GHz		
10GHz-26.5GHz		

Remark:

Pre test 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

5.10 Other requirements Frequency Hopping Spread Spectrum System

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:

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.

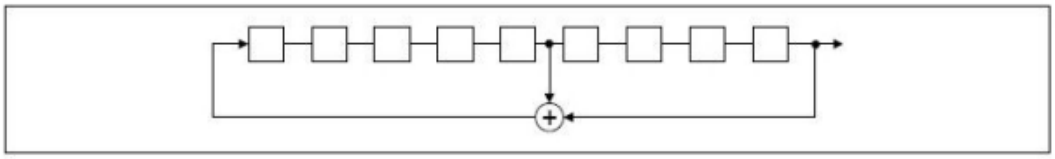
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

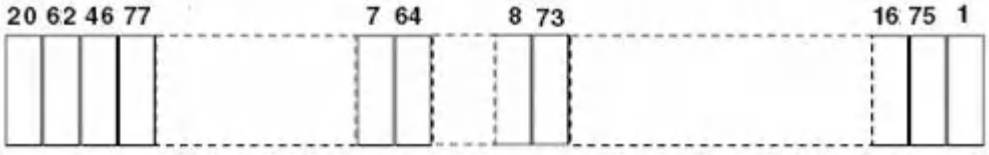
According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2^9 -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 follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)
According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

5.11 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Receiver Setup:	

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	Peak	100 kHz	300kHz	Peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/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.

Test Setup:	

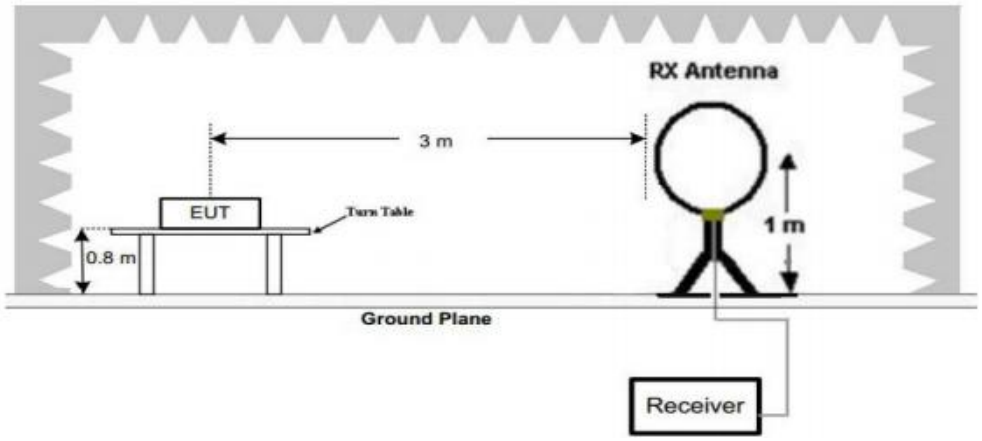


Figure 1. Below 30MHz

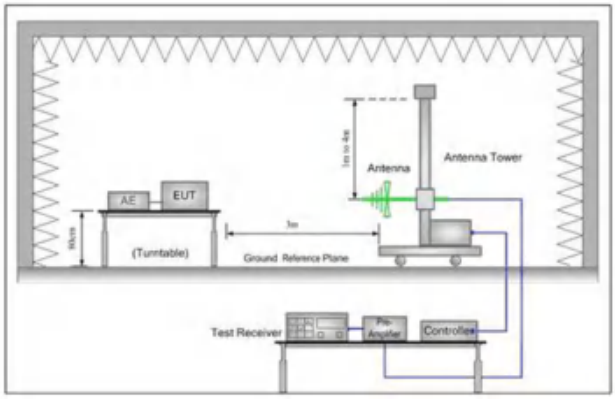


Figure 2. 30MHz to 1GHz

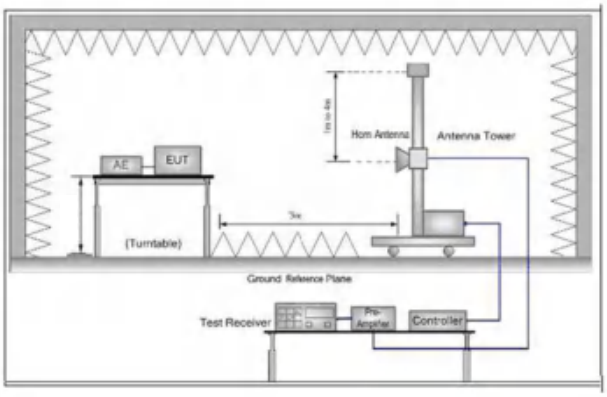


Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the 8DPSK modulation is the worst case. Pretest the EUT at 8DPSK Transmitting mode, high-channel mode is worse case Only the 8DPSK-high channel mode is recorded in the report.
Test Results:	Pass

5.11.1 Radiated Emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		51.6616	41.03	-16.82	24.21	40.00	-15.79	QP			
2		90.5374	33.04	-20.28	12.76	43.50	-30.74	QP			
3		219.8449	41.34	-17.69	23.65	46.00	-22.35	QP			
4		352.9433	43.51	-11.60	31.91	46.00	-14.09	QP			
5	*	574.6258	45.83	-2.75	43.08	46.00	-2.92	QP			
6		574.6258	40.95	-2.75	38.20	46.00	-7.80	QP			
7		833.3171	33.25	5.66	38.91	46.00	-7.09	QP			

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		57.5939	35.79	-14.03	21.76	40.00	-18.24	QP			
2		217.5443	51.97	-18.44	33.53	46.00	-12.47	QP			
3	*	351.7079	53.67	-11.61	42.06	46.00	-3.94	QP			
4		499.4247	41.24	-4.31	36.93	46.00	-9.07	QP			
5		574.6258	38.74	-2.75	35.99	46.00	-10.01	QP			
6		958.7943	27.81	6.85	34.66	46.00	-11.34	QP			

Remark:

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

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

5.11.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK(DH5)		Test channel:		Lowest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2390	60.79	-9.2	51.59	74	-22.41	**Peak**	**H**
2400	63.72	-9.39	54.33	74	-19.67	Peak	H
4804	63.56	-4.33	59.23	74	-14.77	Peak	H
7206	50.91	1.01	51.92	74	-22.08	Peak	H
2390	61.30	-9.2	52.10	74	-21.90	**Peak**	**V**
2400	62.40	-9.39	53.01	74	-20.99	Peak	V
4804	63.44	-4.33	59.11	74	-14.89	Peak	V
7206	52.17	1.01	53.18	74	-20.82	Peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Middle	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
4882	59.27	-4.11	55.16	74	-18.84	peak	H
7323	49.83	1.51	51.34	74	-22.66	peak	H
4882	59.26	-4.11	55.15	74	-18.85	peak	V
7323	51.49	1.51	53.00	74	-21.00	peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Highest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2483.5	60.54	-9.29	51.25	74	-22.75	**Peak**	**H**
4960	61.59	-4.04	57.55	74	-16.45	Peak	H
7440	52.24	1.57	53.81	74	-20.19	Peak	H
2483.5	61.13	-9.29	51.84	74	-22.16	**Peak**	**V**
4960	61.57	-4.04	57.53	74	-16.47	Peak	V
7440	53.18	1.57	54.75	74	-19.25	Peak	V

Worse case mode:		π/4DQPSK (2DH5)		Test channel:		Lowest	
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2390	60.92	-9.2	51.72	74	-22.28	**Peak**	**H**

2400	63.63	-9.39	54.24	74	-19.76	Peak	H
4804	63.06	-4.33	58.73	74	-15.27	Peak	H
7206	52.60	1.01	53.61	74	-20.39	Peak	H
2390	62.93	-9.2	53.73	74	-20.27	**Peak**	**V**
2400	65.57	-9.39	56.18	74	-17.82	Peak	V
4804	62.95	-4.33	58.62	74	-15.38	Peak	V
7206	51.23	1.01	52.24	74	-21.76	Peak	V

Worse case mode:		π/4DQPSK (2DH5)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
4882	59.62	-4.11	55.51	74	-18.49	peak	H
7323	51.50	1.51	53.01	74	-20.99	peak	H
4882	58.41	-4.11	54.30	74	-19.70	peak	V
7323	49.12	1.51	50.63	74	-23.37	peak	V

Worse case mode:		π/4DQPSK (2DH5)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
2483.5	60.97	-9.29	51.68	74	-22.32	**Peak**	**H**
4960	60.78	-4.04	56.74	74	-17.26	Peak	H
7440	51.79	1.57	53.36	74	-20.64	Peak	H
2483.5	61.23	-9.29	51.94	74	-22.06	**Peak**	**V**
4960	60.00	-4.04	55.96	74	-18.04	Peak	V
7440	53.89	1.57	55.46	74	-18.54	Peak	V

Remark:

1) 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 + Antenna Factor + Cable Factor – Preamplifier Factor

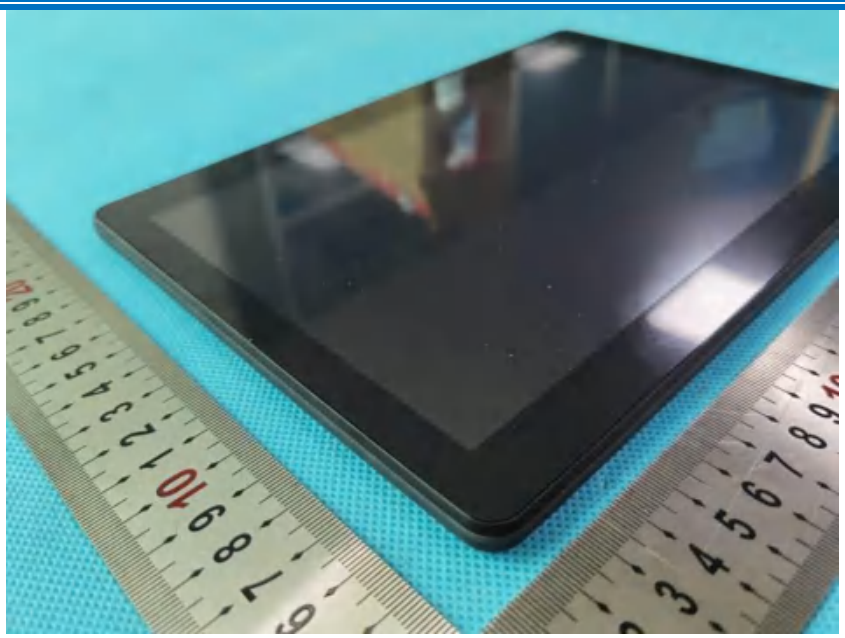
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

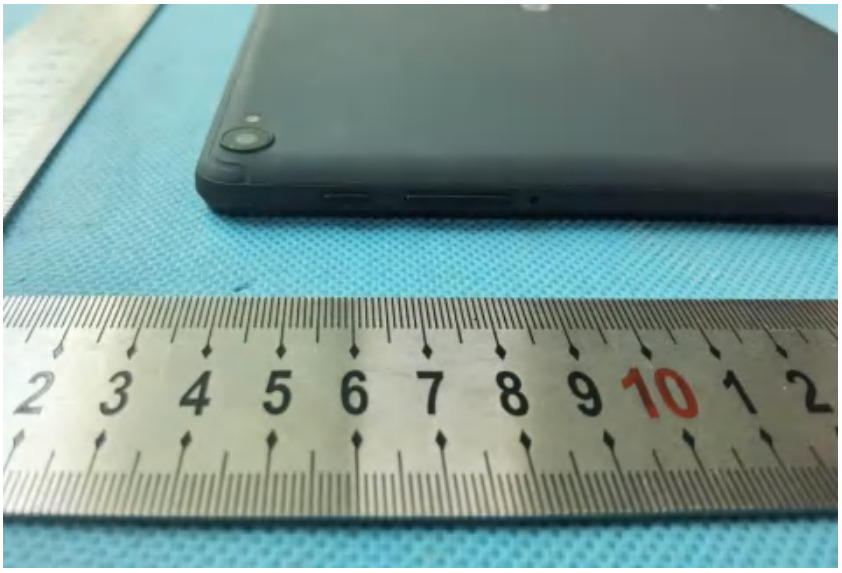
6 Photographs - EUT Test Setup

Please refer to test setup file

7 Photographs - EUT Constructional Details

External photos



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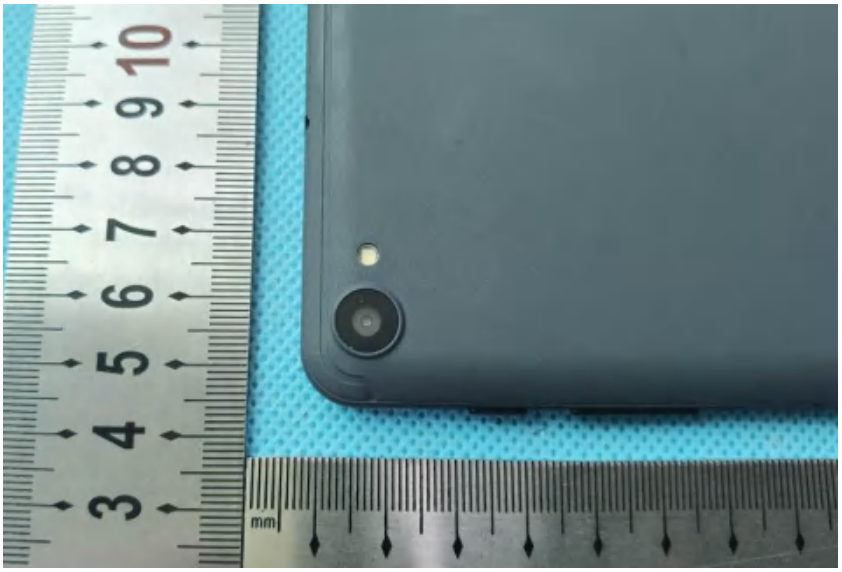
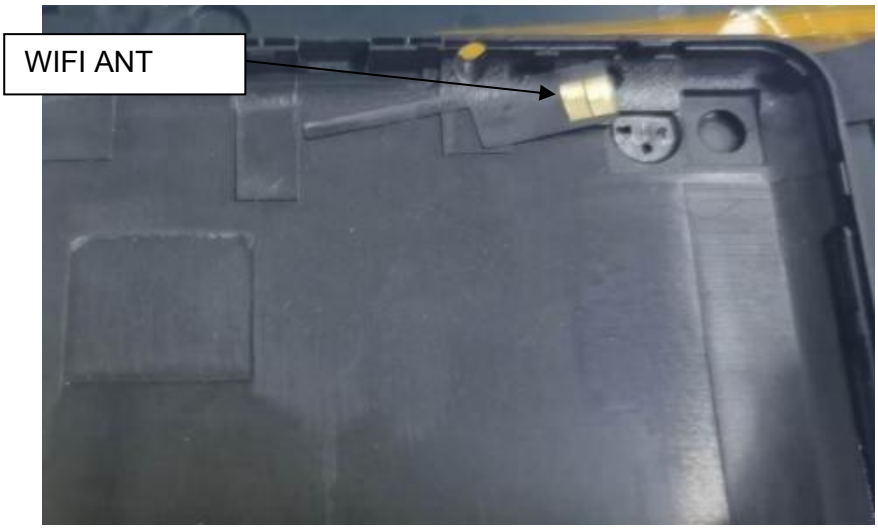
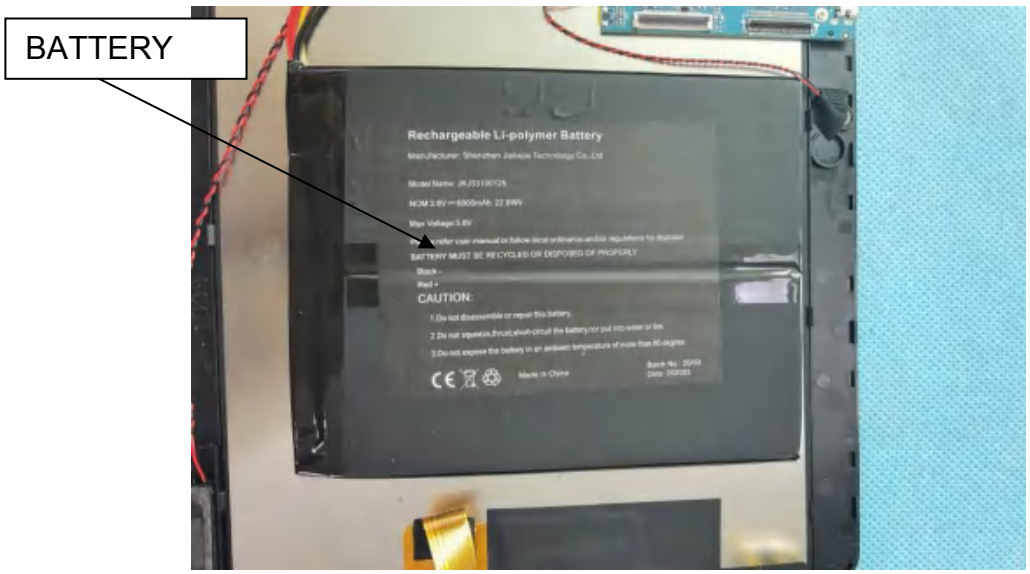
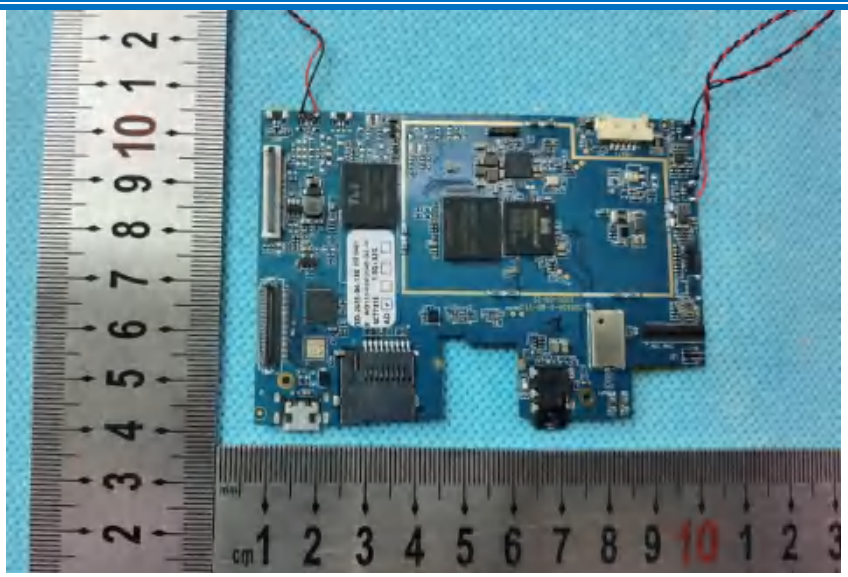
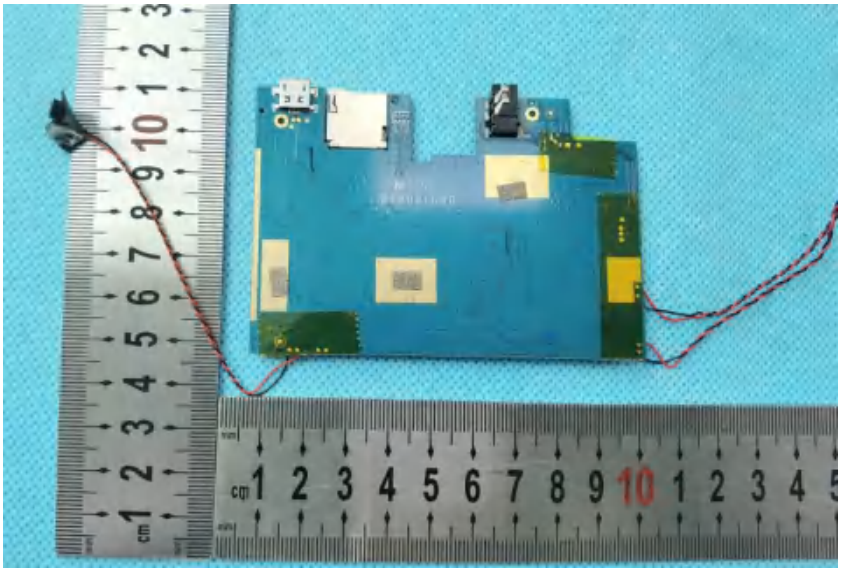

10 9 8 7 6 5 4 3
mm

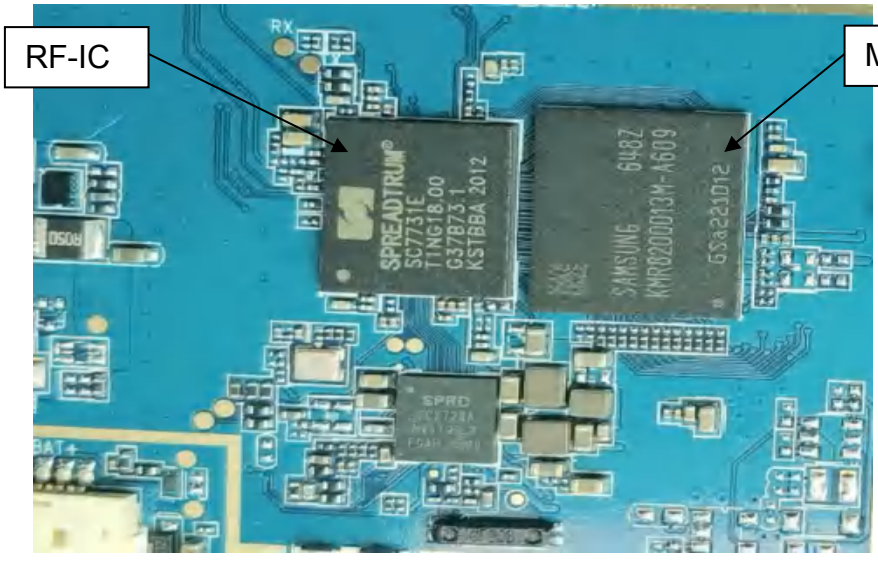
Internal photos











The End