



FCC 47 CFR PART 15 SUBPART C 15.247 TEST REPORT

FOR

Bluetooth Keyboard

Model : FC900RBT

Trade Name : Leopold

Issued to

Leopold Co., Ltd.
B-dong-306, DaebangTriplaon Business Tower, 158,
Haneulmaeul-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do
10355 South Korea

Issued by

WH Technology Corp.



Xizhi Office	7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Xizhi Lab	No. 67-22, Baoxin St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Tel.: +886-2-7729-7707 Fax: +886-2-8648-1311	

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1. General Information

Applicant : Leopold Co., Ltd.

Address : B-dong-306, DaebangTriplaon Business Tower, 158,
Haneulmaeul-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do
10355 South Korea

Manufacturer : Datacomp Electronics Co.,Ltd.

Address : No.38, Sec.2, Nankan Rd., Lujhu Dist., Taoyuan City 338
Taiwan.(R.O.C)

EUT : Bluetooth Keyboard

Model Name : FC900RBT

Series Model : FC750RBT、FC980MBT、NP900RBT

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2013. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart C

Receipt Date : 01/29/2021

Final Test Date : 03/11/2021

Tested By:

Reviewed by:

Mar. 11, 2021

Date

Bing Zhang / Engineer

Mar. 11, 2021

Date

Bell Wei / Manager
Designation Number: TW2954



2. Report of Measurements and Examinations

2.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Emission	Pass
15.247(a)(1)	Channel Carrier Frequencies Separation	Pass
15.247(a)(1)	20dB Bandwidth Measurement	Pass
15.247(a)(1)	Dwell Time	Pass
15.247(b)	Number of Hopping Channels	Pass
15.247(b)	Peak Output Power Measurement Data	Pass
15.247(d)	Band Edges Measurement Data	Pass



3. Test Configuration of Equipment under Test

3.1 Description of the Tested Samples

EUT Name : Bluetooth Keyboard
Model Number : FC900RBT
Series Model : FC750RBT、FC980MBT、NP900RBT
FCC ID : RPK-LEOBTMODEL
Receipt Date : 01/29/2021
EUT Power Rating : DC 5V from PC
DC 3V from AAA Batteries*2
Operate Frequency : Refer to the channel list as described below
(2402 ~ 2480 MHz)
Modulation Technique : GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channels : 79
Channel Spacing : 1 MHz
Operating Mode : Simplex Duplex
Antenna Type : PCB Antenna
Antenna Gain : 2.78 dBi



3.2 Carrier Frequency of Channels

Channel	Frequency (MHz)						
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

3.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10-2013.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive “BLUETEST3” under WIN8 was executed to keep transmitting and receiving data via Wireless.
- d. The following test modes were performed for test:
 - GFSK: CH00: 2402MHz, CH39: 2441MHz, CH78: 2480MHz
 - π/4-DQPSK: CH00: 2402MHz, CH39: 2441MHz, CH78: 2480MHz
 - 8DPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.



3.4 Test Methodology & General Test Procedures

All testing as described below were performed in accordance with ANSI C63.10-2013 and FCC CFR 47 Part 15 Subpart C.

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane according to clause 15.207 and requirements of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

- 1) Putting the EUT on the platform and turning on the EUT (on/off button on the bottom of the EUT).
- 2) Setting test channel described as "Channel setting and operating condition", and testing channel by channel.
- 3) For the spurious emission test based on ANSI(2013), at the frequency where below 1GHz used quasi-peak detector mode; where above 1GHz used the peak and average detector mode. IF the peak value may be under average limit, the average mode will not be performed.



3.5 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated emission	±4.11dB
Peak Output Power (Conducted)	±1.38dB
Peak Output Power (Radiated)	±1.70dB
Power Spectral Density	±1.39dB
Radiated emission (3m)	±4.11dB
Radiated emission (10m)	±3.89dB

3.6 Description of the Support Equipments

Setup Diagram

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

Support Equipment

Peripherals Devices:

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1.	Notebook	N15C5	N/A	PD97265 NG	acer	N/A	N/A
2.	USB-UART	V2.2	N/A	N/A	GZUt	N/A	N/A
3.	Uart Tool	2034	N/A	N/A	TYE	N/A	N/A

Note: (1) All the above equipment /cable were placed in worse case position to maximize emission signals during emission test.

(2) Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.



4. Test and Measurement Equipment

4.1 Calibration

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2 Equipment

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.



TABLELIST OF TEST AND MEASUREMENT EQUIPMENT

Conducted emission				
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
EMI Test Receiver	R&S	ESHS10	830223/008	2021/08/11
Spectrum Analyzer	R&S	FSP3	833387/010	2021/12/09
Two-Line V-Network	R&S	NNB-2/16z	98062	2021/08/15
Test Cable	N/A	N/A	WH-CON03	2021/10/19
Measurement Software	AUDIX	e3	V6.101222a	N/A
Radiated emission Below 1GHz				
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
Bilog antenna	ETC	MCTD2786B	BLB19O04027/J B-5-027	2021/11/17
LOOP Antenna	EMCO	6507	9301-1298	2022/01/14
Pre-amplifier	EMCI	EMC9135	980334	2021/06/18
Cable	EMCI	N male on end of both sides (EMI4)	30m	2021/12/07
Receiver	R&S	ESVS30	826006/002	2022/01/21
Spectrum Analyzer	R&S	FSP7	830180/006	2021/04/23
Measurement Software	AUDIX	e3	V6.101222a	N/A
Radiated emission Above 1GHz				
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date
Horn antenna	ETS LINDGREN	3117	00114397	2021/04/08
Horn antenna	com-power	AH-826	81000	2021/10/15
Horn antenna	Schwarzbeck	BBHA9170	#687	2021/06/21
Pre-amplifier	EMCI	EMC051845	980108	2021/12/09
Pre-amplifier	MITEQ	JS4-18002600-30-5A	808329	2021/09/23
Pre-amplifier	EMC INSTRUMENT	EMC264035SE	980288	2021/05/06
RF CABLE	SUCOFLEX	104PEA	27348/4PEA	2021/08/12
RF CABLE	AGILENT	EMC102-KM-KM-3000	160101	2021/09/10
RF CABLE	AGILENT	EMC102-KM-KM-600	160102	2021/09/10
Spectrum Analyzer	R&S	FSP7	830180/006	2021/04/23
Spectrum Analyzer	AGILENT	N9010A	MY51280195	2021/09/22
Spectrum Analyzer	ADVANTEST	R3182	150900201	2022/02/09

*CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR.



5. Antenna Requirements

5.1 Standard Applicable

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

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

5.2 Antenna Construction and Directional Gain

Antenna Type: PCB Antenna

Antenna Gain: 2.78 dBi



6. Test of Conducted Emission

6.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

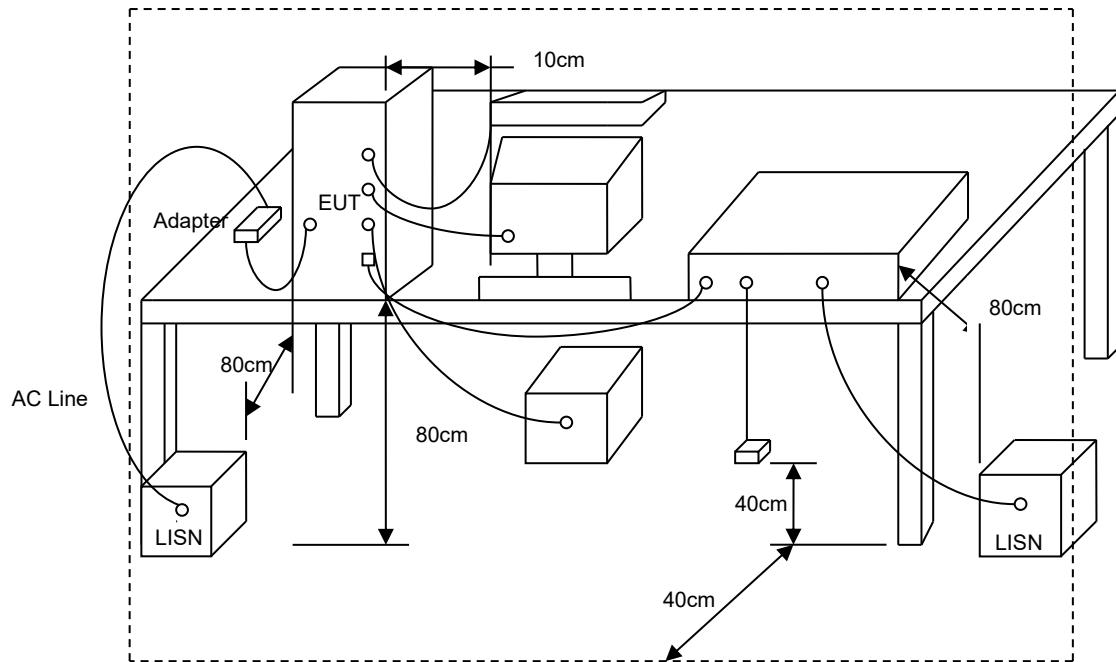
*Decreases with the logarithm of the frequency.

6.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



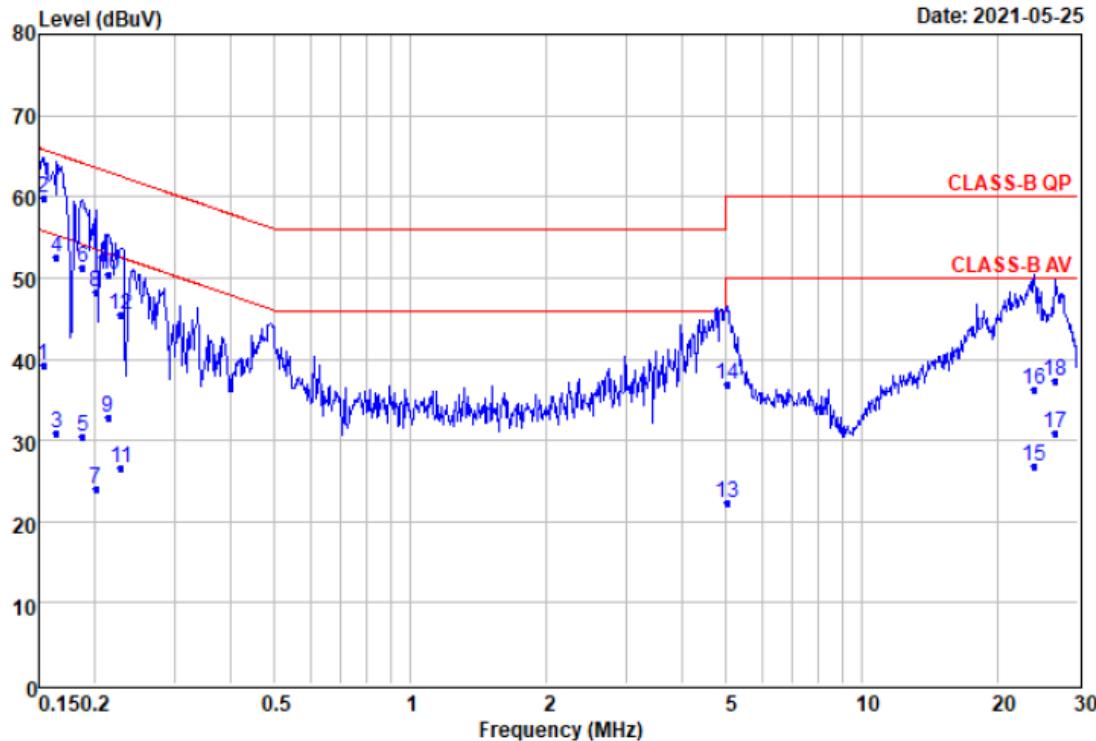
6.3 Typical Test Setup





6.4 Test Result and Data

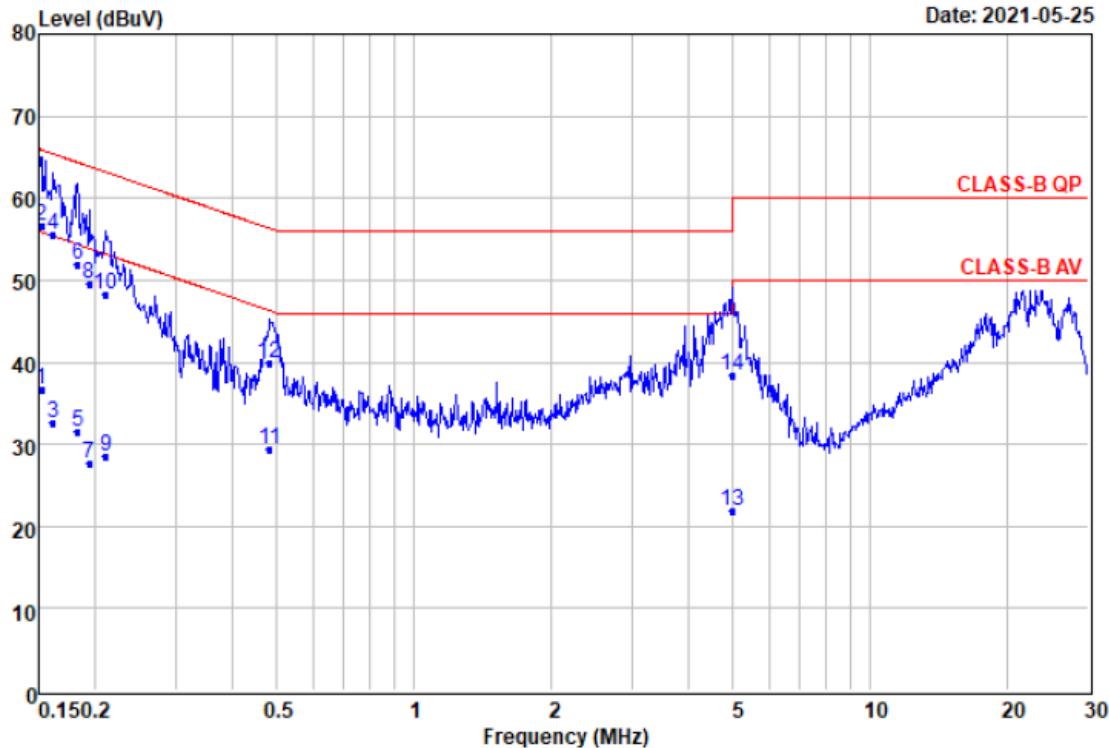
Power	: DC 5V	Pol/Phase	: LINE
Temperature	: 24.6 °C	Humidity	: 45 %
Test Mode	: USB Power		



Remarks	: Factor=Insertion loss+Cable loss						
	Freq	Read Level	Level Factor	Over Limit	Line Limit	Remark	
	MHz	dBuV	dBuV	dB	dB	dBuV	
1	0.15	29.17	39.27	10.10	-16.51	55.78	Average
2 @	0.15	49.84	59.94	10.10	-5.84	65.78	QP
3	0.16	20.74	30.83	10.09	-24.42	55.25	Average
4	0.16	42.48	52.57	10.09	-12.68	65.25	QP
5	0.19	20.40	30.48	10.08	-23.67	54.15	Average
6	0.19	41.16	51.24	10.08	-12.91	64.15	QP
7	0.20	14.04	24.12	10.08	-29.46	53.58	Average
8	0.20	38.10	48.18	10.08	-15.40	63.58	QP
9	0.21	22.66	32.74	10.08	-20.31	53.05	Average
10	0.21	40.30	50.38	10.08	-12.67	63.05	QP
11	0.23	16.48	26.55	10.07	-25.97	52.52	Average
12	0.23	35.36	45.43	10.07	-17.09	62.52	QP
13	5.00	11.89	22.20	10.31	-27.80	50.00	Average
14	5.00	26.66	36.97	10.31	-23.03	60.00	QP
15	24.01	16.05	26.87	10.82	-23.13	50.00	Average
16	24.01	25.42	36.24	10.82	-23.76	60.00	QP
17	26.70	19.93	30.85	10.92	-19.15	50.00	Average
18	26.70	26.31	37.23	10.92	-22.77	60.00	QP



Power	: DC 5V	Pol/Phase	: NEUTRAL
Temperature	: 24.6 °C	Humidity	: 45 %
Test Mode	: USB Power		



Remarks	: Factor=Insertion loss+Cable loss						
	Freq	Read Level	Over Limit	Line	Limit	Remark	
	MHz	dBuV	dBuV	dB	dB	dBuV	
1	0.15	26.69	36.78	10.09	-19.09	55.87	Average
2 @	0.15	46.62	56.71	10.09	-9.16	65.87	QP
3	0.16	22.58	32.67	10.09	-22.71	55.38	Average
4	0.16	45.52	55.61	10.09	-9.77	65.38	QP
5	0.18	21.42	31.50	10.08	-22.87	54.37	Average
6	0.18	41.90	51.98	10.08	-12.39	64.37	QP
7	0.19	17.49	27.57	10.08	-26.32	53.89	Average
8	0.19	39.54	49.62	10.08	-14.27	63.89	QP
9	0.21	18.43	28.51	10.08	-24.67	53.18	Average
10	0.21	38.16	48.24	10.08	-14.94	63.18	QP
11	0.48	19.24	29.30	10.06	-17.02	46.32	Average
12	0.48	29.88	39.94	10.06	-16.38	56.32	QP
13	4.98	11.61	21.93	10.32	-24.07	46.00	Average
14	4.98	28.12	38.44	10.32	-17.56	56.00	QP



7. Test of Radiated Emission

7.1 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



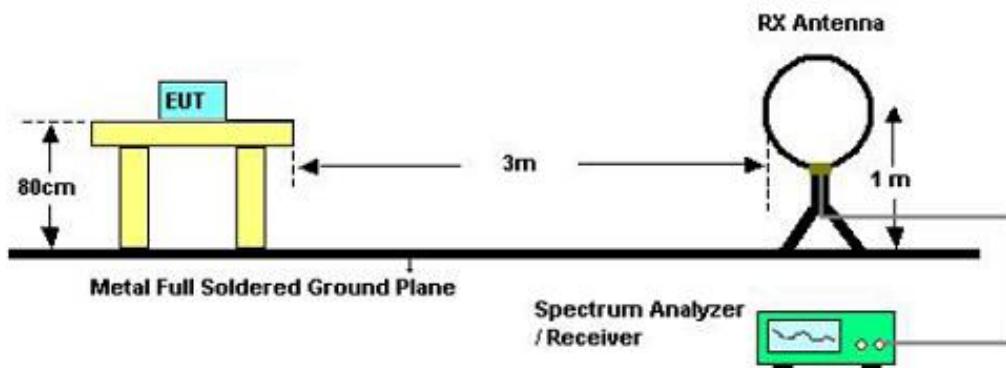
7.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

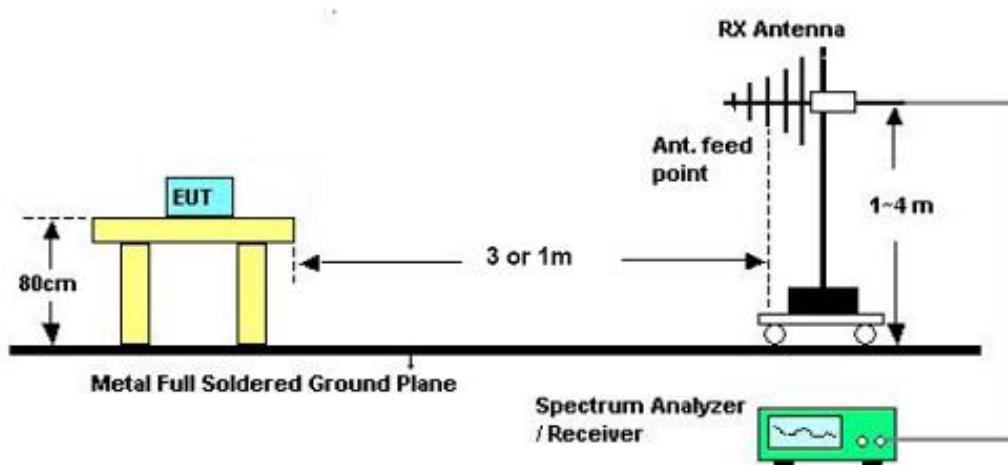


7.3 Typical Test Setup

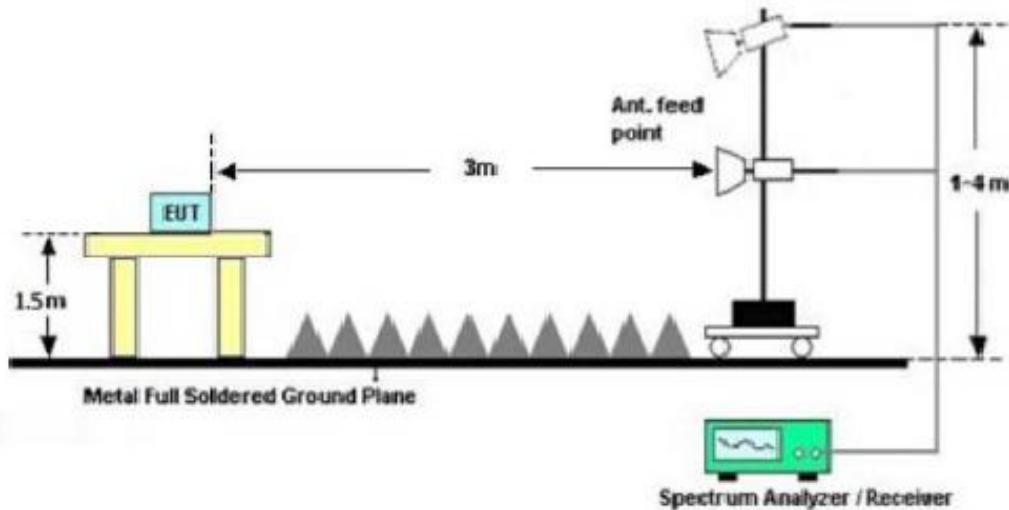
For radiated emissions below 30MHz



For radiated emissions above 30MHz



For radiated emissions above 1GHz



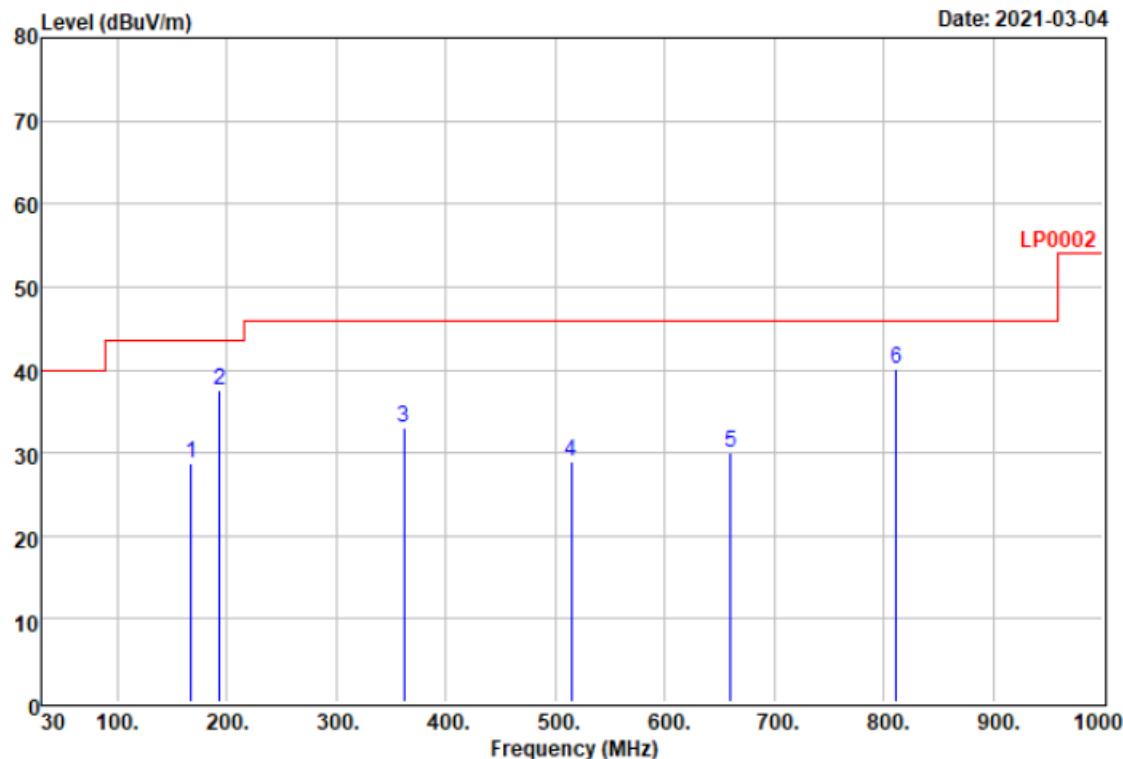


7.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

7.5 Test Result and Data (30MHz ~ 1GHz, worst emissions found)

Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: GFSK: CH00		



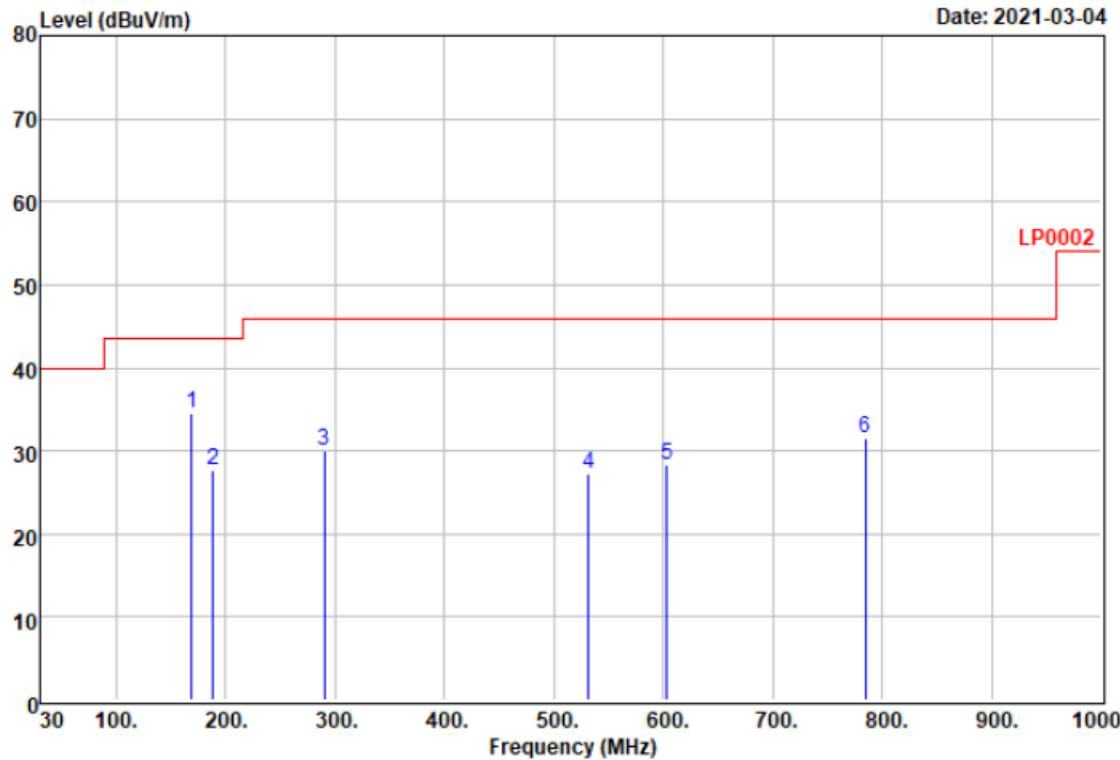
Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Read		Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark

	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	166.980	46.59	-17.88	28.71	43.50	-14.79	QP
2	193.380	55.98	-18.44	37.54	43.50	-5.96	QP
3	361.800	45.39	-12.38	33.01	46.00	-12.99	QP
4	514.870	38.28	-9.38	28.90	46.00	-17.10	QP
5	660.470	35.96	-5.95	30.01	46.00	-15.99	QP
6 @	811.480	44.81	-4.75	40.06	46.00	-5.94	QP



Power	:	DC 5V	Pol/Phase	:	VERTICAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	GFSK: CH00			

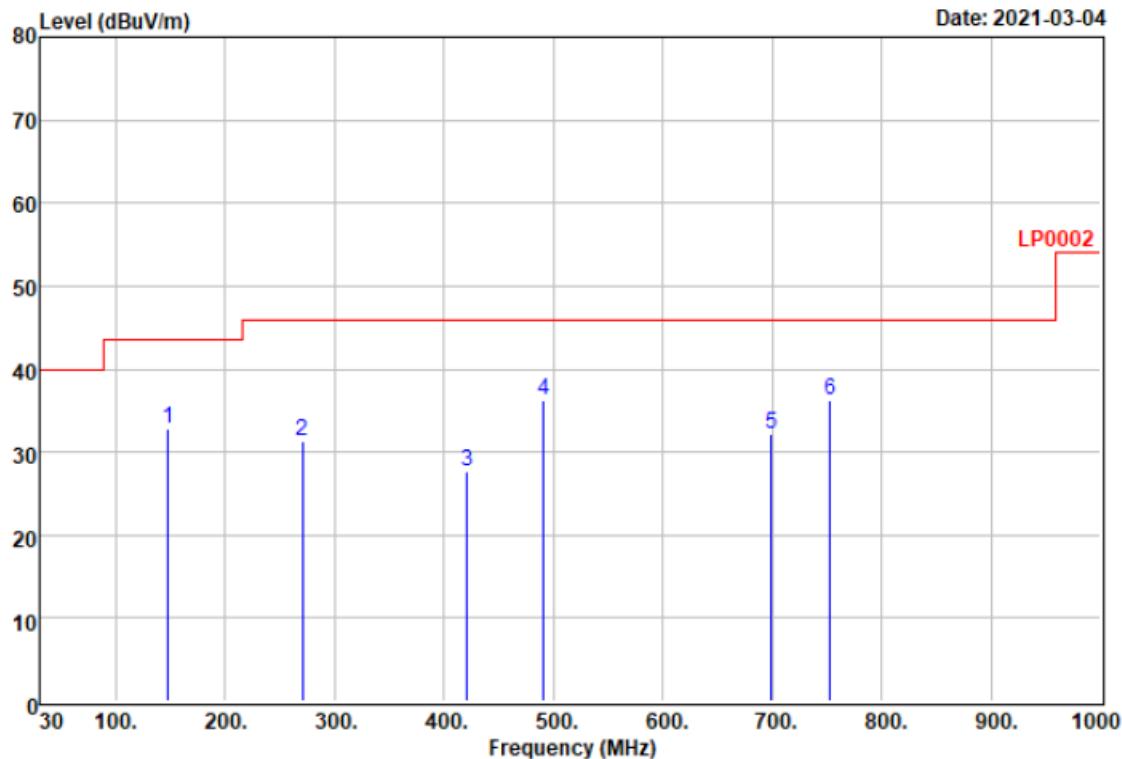


Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

Freq	Read		Limit		Over		Remark
	Level	Factor	Level	Line	Line	Limit	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	169.010	52.73	-18.26	34.47	43.50	-9.03	QP
2	187.940	46.62	-18.85	27.77	43.50	-15.73	QP
3	290.110	43.90	-13.87	30.03	46.00	-15.97	QP
4	531.890	36.02	-8.83	27.19	46.00	-18.81	QP
5	603.110	36.69	-8.29	28.40	46.00	-17.60	QP
6	785.130	36.98	-5.54	31.44	46.00	-14.56	QP



Power	:	DC 5V	Pol/Phase	:	HORIZONTAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	π/4-DQPSK: CH00			



Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

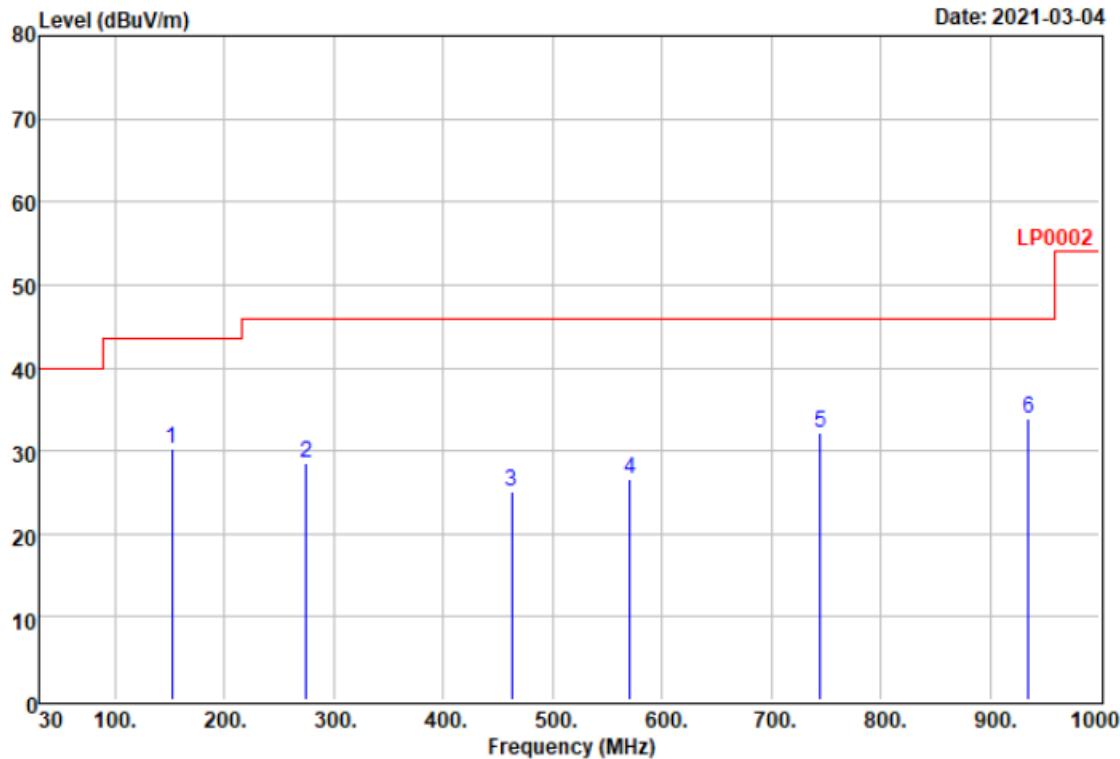
Freq	Read			Limit		Over	Remark
	Level	Factor	Level	Line	dBuV/m		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 147.860	47.65	-14.77	32.88	43.50	-10.62	QP	
2 270.850	45.66	-14.45	31.21	46.00	-14.79	QP	
3 421.130	38.16	-10.46	27.70	46.00	-18.30	QP	
4 491.100	45.71	-9.52	36.19	46.00	-9.81	QP	
5 699.300	39.14	-6.88	32.26	46.00	-13.74	QP	
6 @ 752.720	42.35	-6.06	36.29	46.00	-9.71	QP	



WH Technology Corp.

Date of Issue: Mar. 11, 2021
Report No.: WH-FCC-R21012903

Power	:	DC 5V	Pol/Phase	:	VERTICAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	$\pi/4$ -DQPSK: CH00			

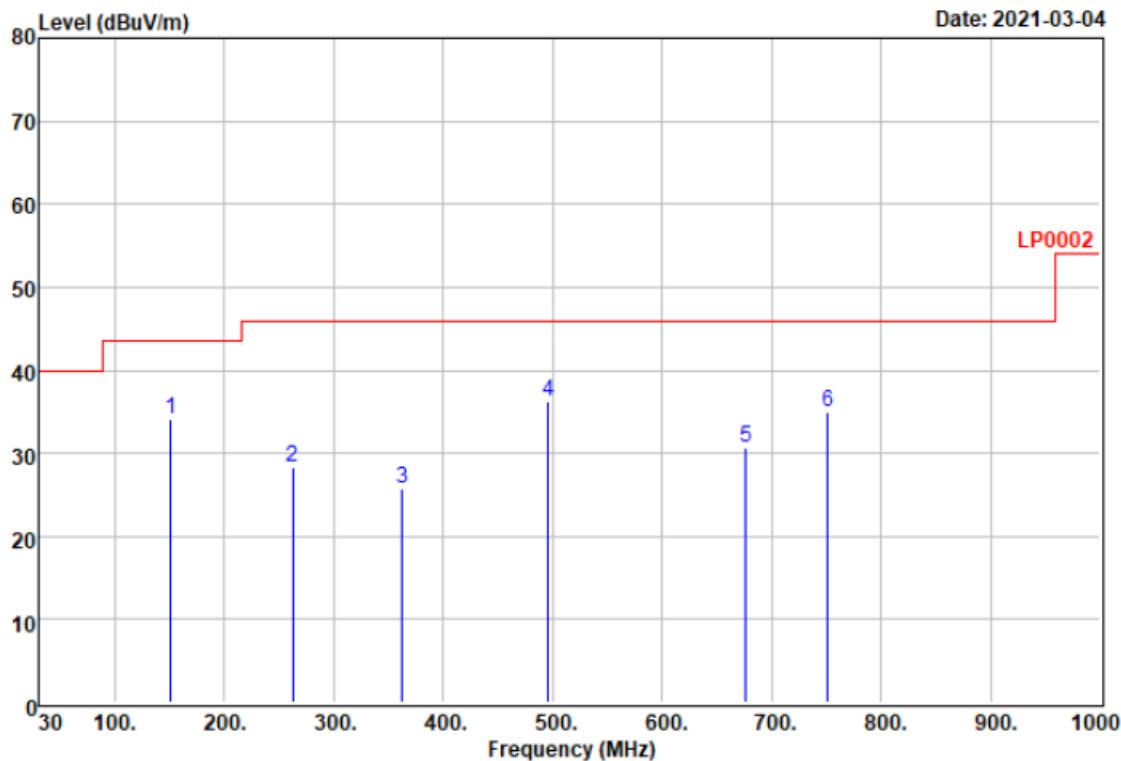


Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

Freq	Read			Limit Line	Over Limit	Remark
	Level	Factor	Level			
MHz	dB _{uV}	dB/m	dB _{uV/m}	dB _{uV/m}	dB	
1 151.690	45.66	-15.43	30.23	43.50	-13.27	QP
2 274.320	42.98	-14.36	28.62	46.00	-17.38	QP
3 462.320	35.36	-10.22	25.14	46.00	-20.86	QP
4 570.580	35.16	-8.53	26.63	46.00	-19.37	QP
5 744.600	38.22	-6.15	32.07	46.00	-13.93	QP
6 @ 935.380	36.20	-2.39	33.81	46.00	-12.19	QP



Power	:	DC 5V	Pol/Phase	:	HORIZONTAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	8DPSK: CH00			



Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Read		Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark

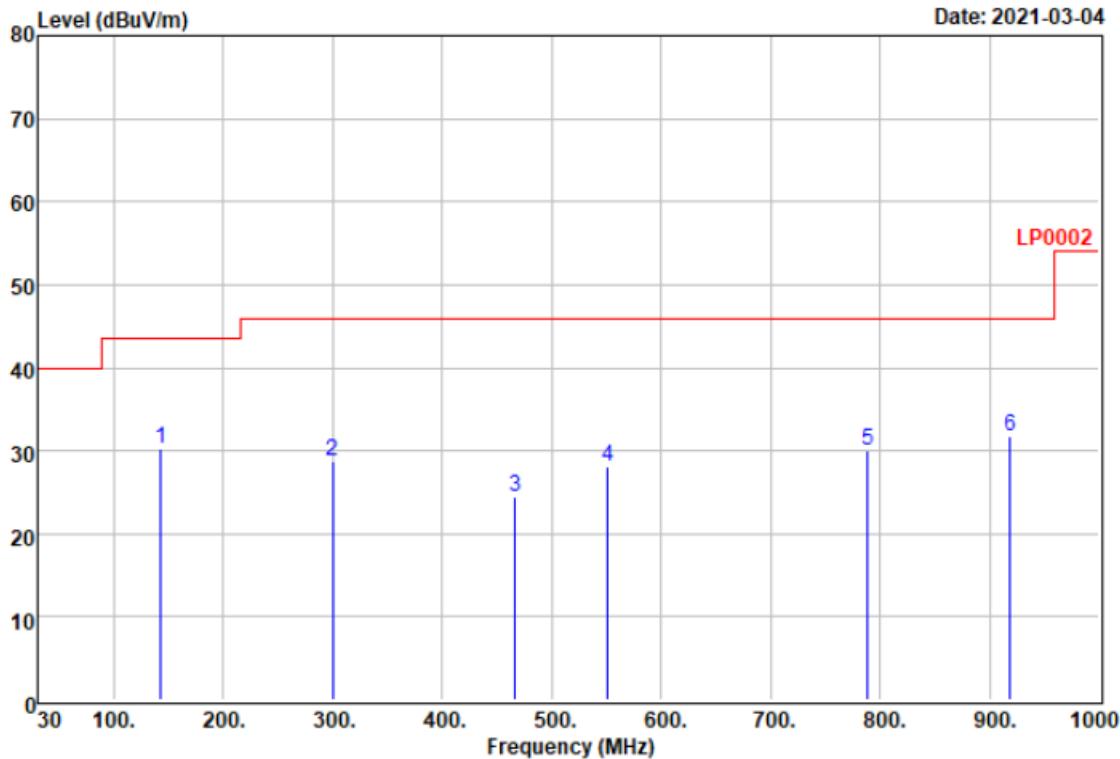
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	@	150.920	49.52	-15.34	34.18	43.50	-9.32	QP
2		262.250	43.13	-14.92	28.21	46.00	-17.79	QP
3		362.370	38.12	-12.38	25.74	46.00	-20.26	QP
4		495.920	45.73	-9.51	36.22	46.00	-9.78	QP
5		676.930	37.35	-6.74	30.61	46.00	-15.39	QP
6		751.290	40.94	-6.08	34.86	46.00	-11.14	QP



WH Technology Corp.

Date of Issue: Mar. 11, 2021
Report No.: WH-FCC-R21012903

Power	:	DC 5V	Pol/Phase	:	VERTICAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	8DPSK: CH00			



Remarks : 1.Result=Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

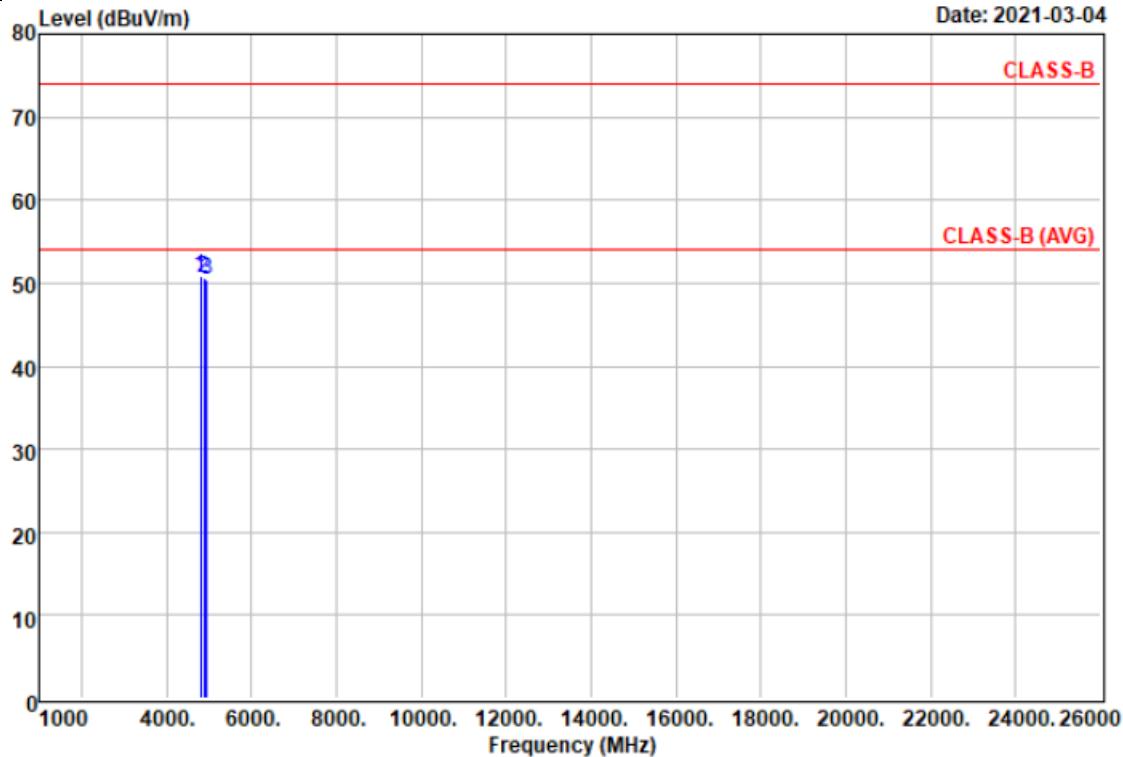
	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark

	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	142.910	44.37	-14.04	30.33	43.50	-13.17	QP
2	299.830	42.44	-13.79	28.65	46.00	-17.35	QP
3	466.840	34.65	-10.16	24.49	46.00	-21.51	QP
4	551.600	36.53	-8.36	28.17	46.00	-17.83	QP
5	788.640	35.56	-5.45	30.11	46.00	-15.89	QP
6	918.710	34.89	-3.15	31.74	46.00	-14.26	QP



7.6 Test Result and Data (Above 1GHz)

Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: GFSK: CH00, CH39, CH78		



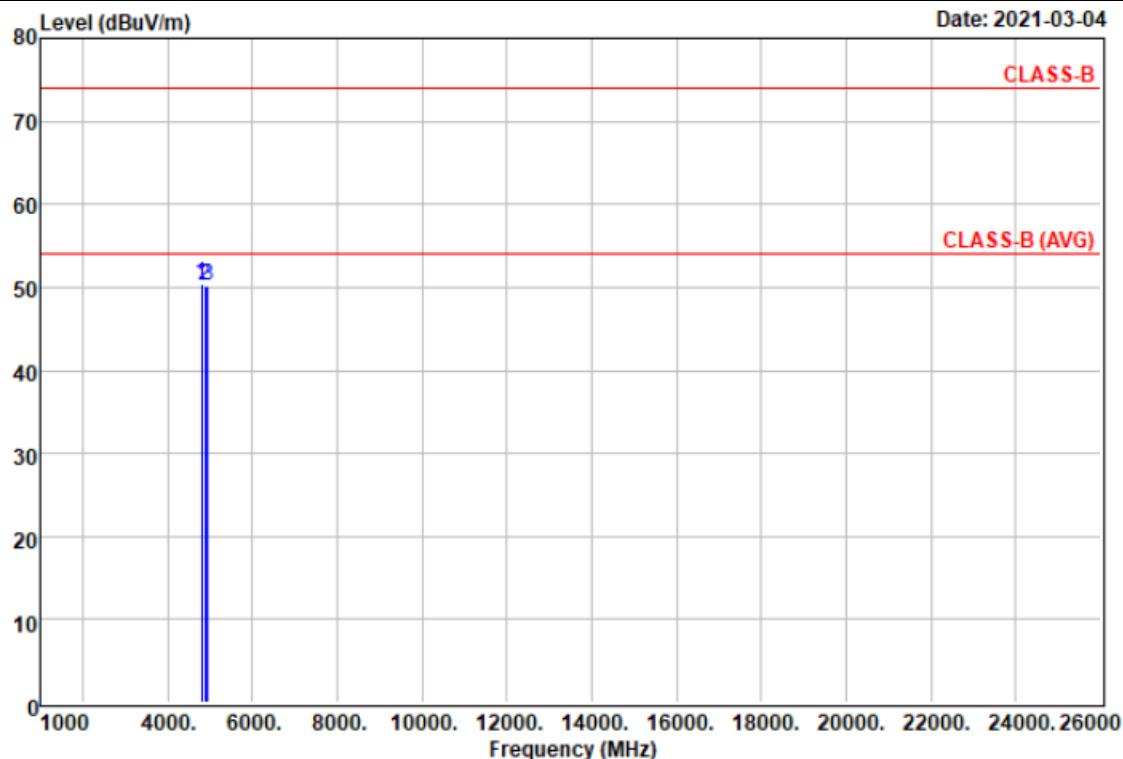
Freq	Read		Limit	Over	Over	Remark
	Level	Factor		Line	Limit	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 @	4804.000	55.43	-4.64	50.79	74.00	-23.21 Peak
2	4882.000	54.95	-4.29	50.66	74.00	-23.34 Peak
3	4960.000	54.27	-3.86	50.41	74.00	-23.59 Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



Power	: DC 5V	Pol/Phase	: VERTICAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: GFSK: CH00, CH39, CH78		



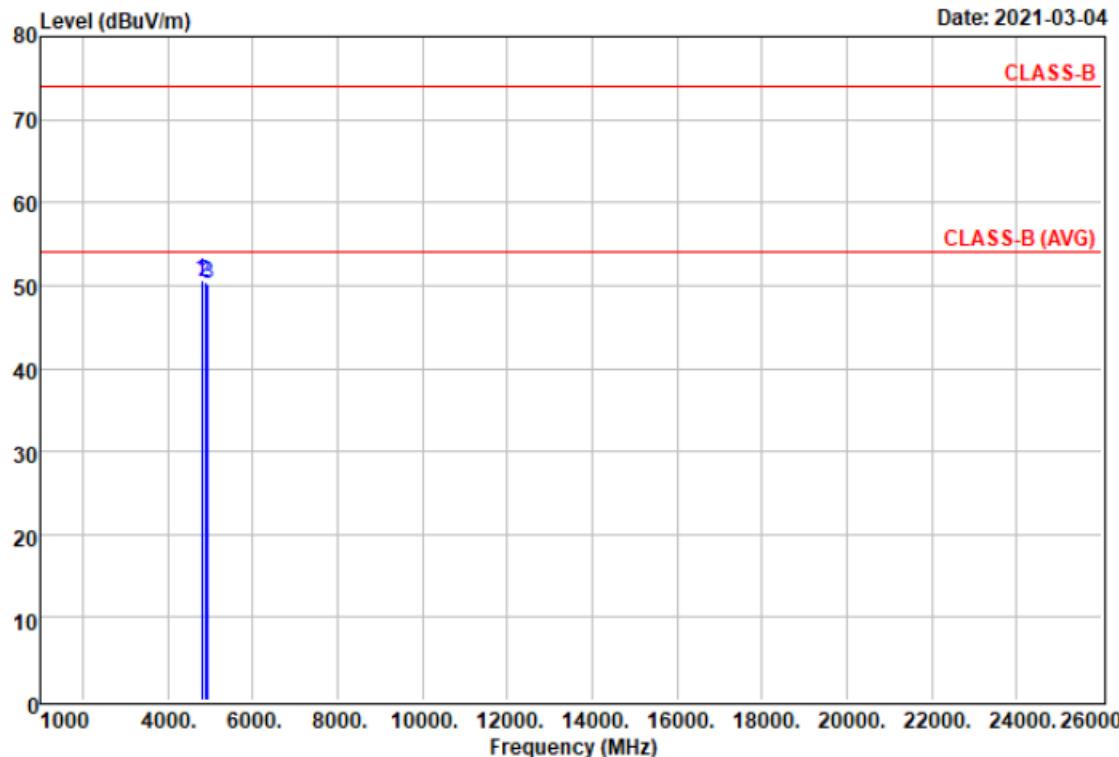
Freq	Read		Limit	Over	Over	Remark
	Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	@ 4804.000	55.01	-4.64	50.37	74.00	-23.63 Peak
2	4882.000	54.48	-4.29	50.19	74.00	-23.81 Peak
3	4960.000	53.96	-3.86	50.10	74.00	-23.90 Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: π/4-DQPSK: CH00, CH39, CH78		



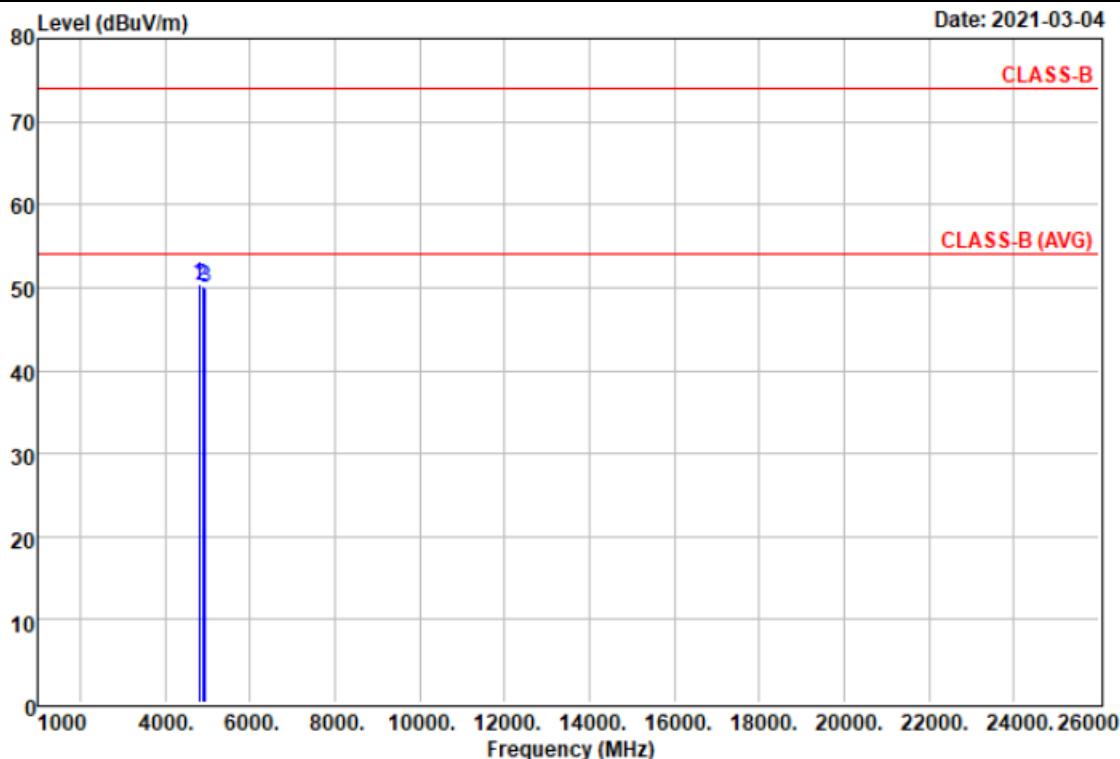
Freq	Read		Limit	Over	Over	Over
	Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 @	4804.000	55.33	-4.64	50.69	74.00	-23.31 Peak
2	4882.000	54.73	-4.29	50.44	74.00	-23.56 Peak
3	4960.000	54.14	-3.86	50.28	74.00	-23.72 Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



Power	: DC 5V	Pol/Phase	: VERTICAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: π/4-DQPSK: CH00, CH39, CH78		



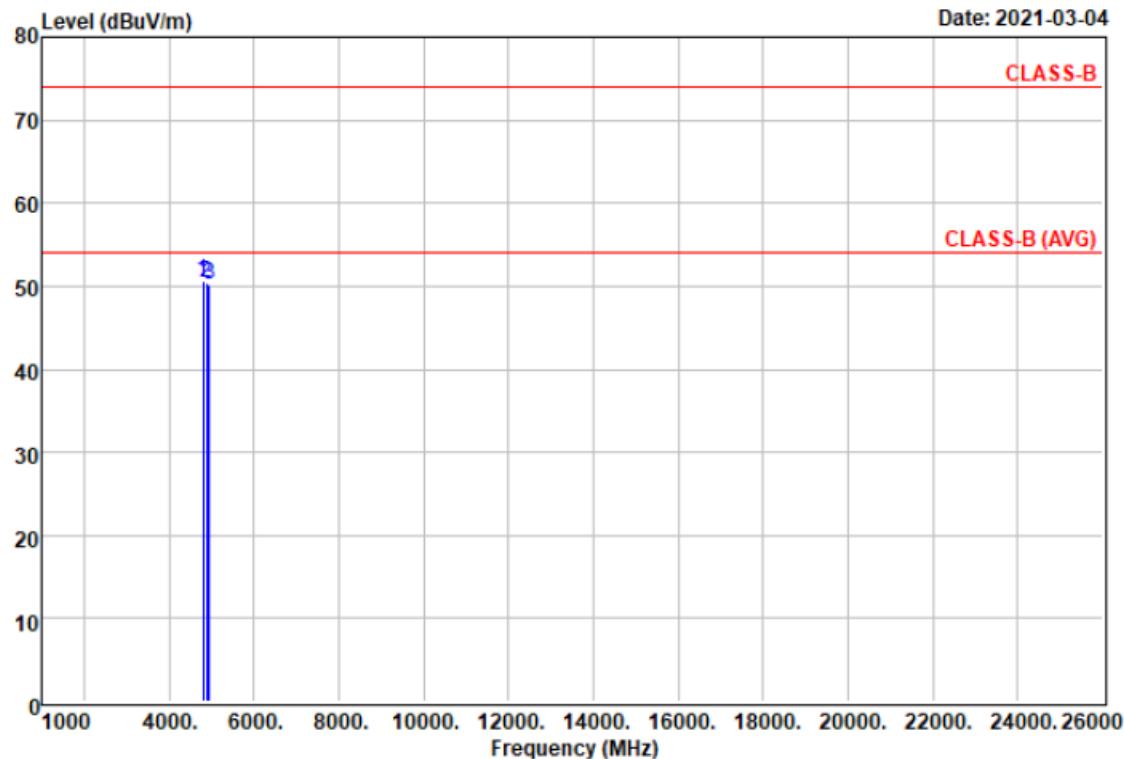
Freq	Read		Limit	Over	Over	Remark	
	Level	Factor					
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	@ 4804.000	54.94	-4.64	50.30	74.00	-23.70	Peak
2	4882.000	54.45	-4.29	50.16	74.00	-23.84	Peak
3	4960.000	53.94	-3.86	50.08	74.00	-23.92	Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: 8DPSK: CH00, CH39, CH78		



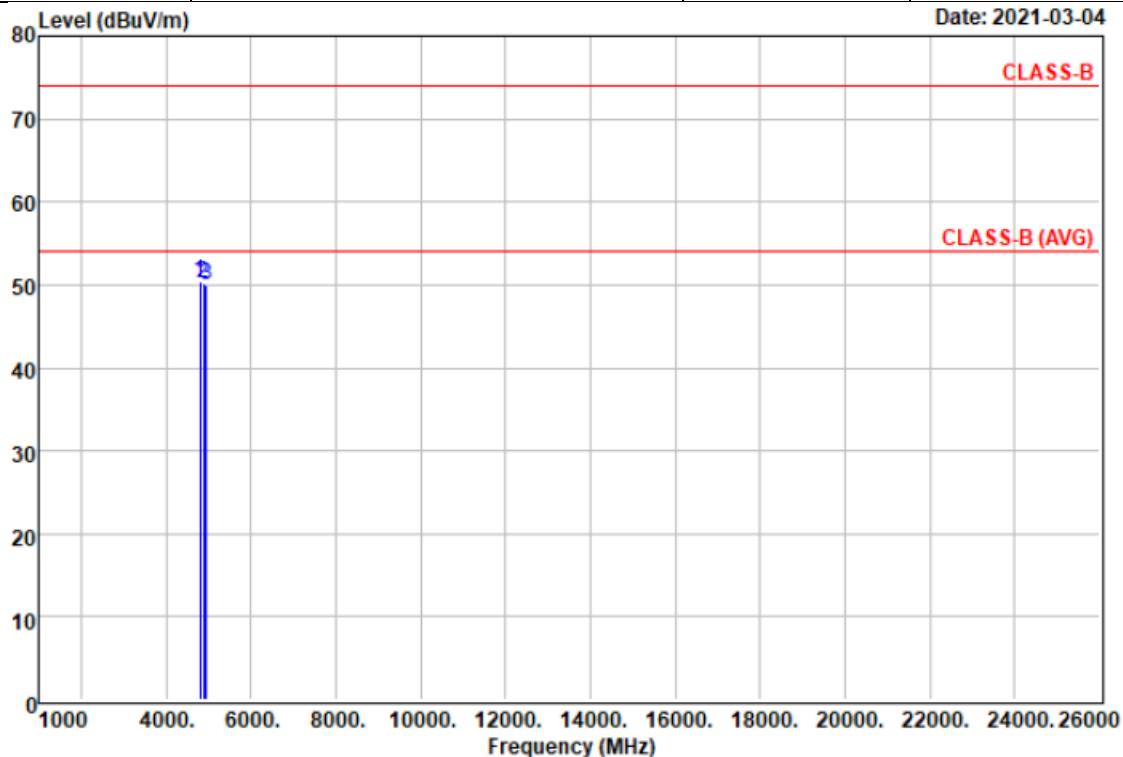
Freq	Read		Limit	Over	Remark	
	Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 @	4804.000	55.27	-4.64	50.63	74.00	-23.37 Peak
2	4882.000	54.69	-4.29	50.40	74.00	-23.60 Peak
3	4960.000	54.09	-3.86	50.23	74.00	-23.77 Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



Power	:	DC 5V	Pol/Phase	:	VERTICAL
Temperature	:	18 °C	Humidity	:	66 %
Test Mode	:	8DPSK: CH00, CH39, CH78			



Freq	Read			Limit		Over	
	Level	Factor	Level	Line	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	4804.000	54.95	-4.64	50.31	74.00	-23.69	Peak
2	4882.000	54.42	-4.29	50.13	74.00	-23.87	Peak
3	4960.000	53.88	-3.86	50.02	74.00	-23.98	Peak

Note:

1. Emission level = Reading level + Correction factor
2. Correction factor: Antenna factor, Cable loss, Pre-Amp, etc.
3. Measurements above 1000 MHz, Peak detector setting: 1 MHz RBW with 1 MHz VBW.
4. Measurements above 1000 MHz, Average detector setting: 1 MHz RBW with 10Hz VBW.
5. Peak detector measurement data will represent the worst case results.
6. Where limits are specified for both average and peak detector functions, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
7. The other emission levels were 20dB below the limit.



8. 20dB Bandwidth Measurement Data

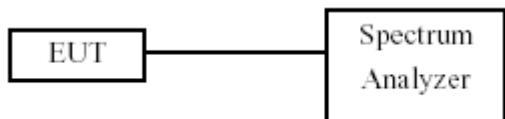
8.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400 ~ 2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

8.3 Test Setup Layout



8.4 Test Result and Data

Test Date: 2021.03.03

Temperature: 24°C

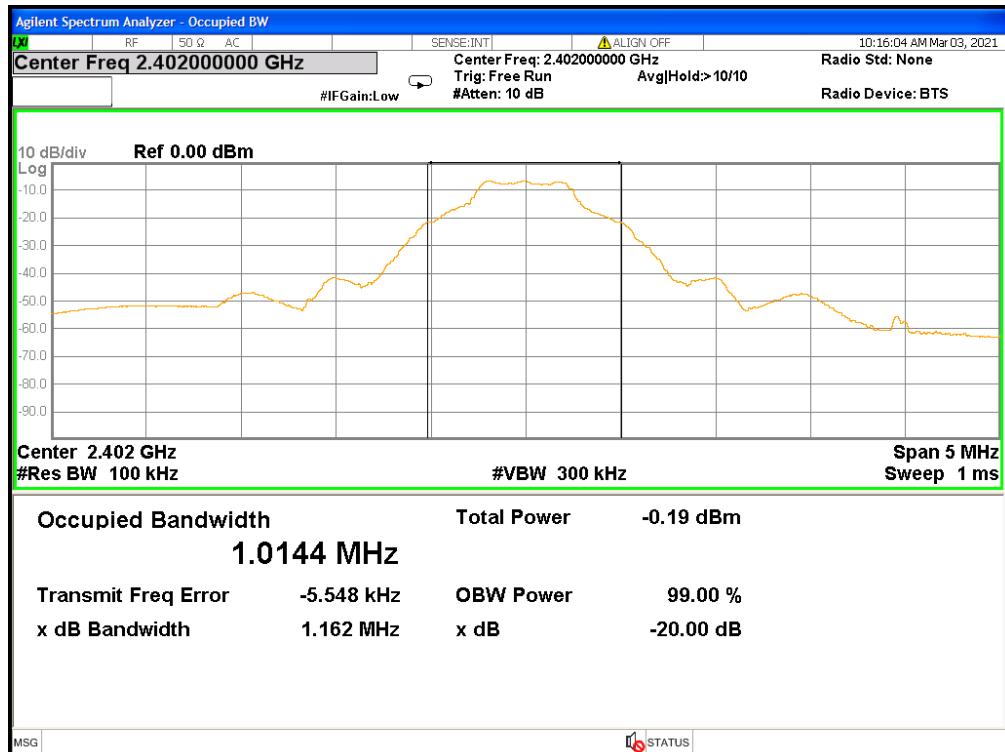
Atmospheric pressure: 1012 hPa

Humidity: 55%

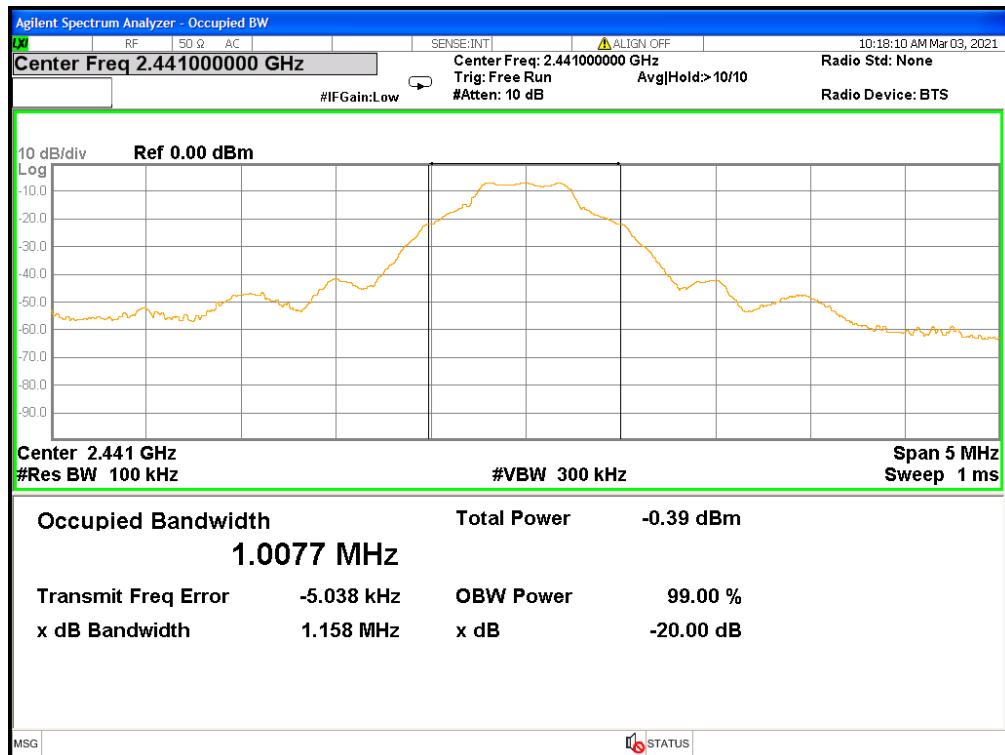
Modulation Standard	Channel	Frequency (MHz)	20dB Bandwidth (MHz)
GFSK (1Mbps)	00	2402	1.162
	39	2441	1.158
	78	2480	1.147
$\pi/4$ -DQPSK (2Mbps)	00	2402	1.150
	39	2441	1.157
	78	2480	1.148
8DPSK (3Mbps)	00	2402	1.151
	39	2441	1.173
	78	2480	1.156



GFSK (1Mbps) Channel: 00

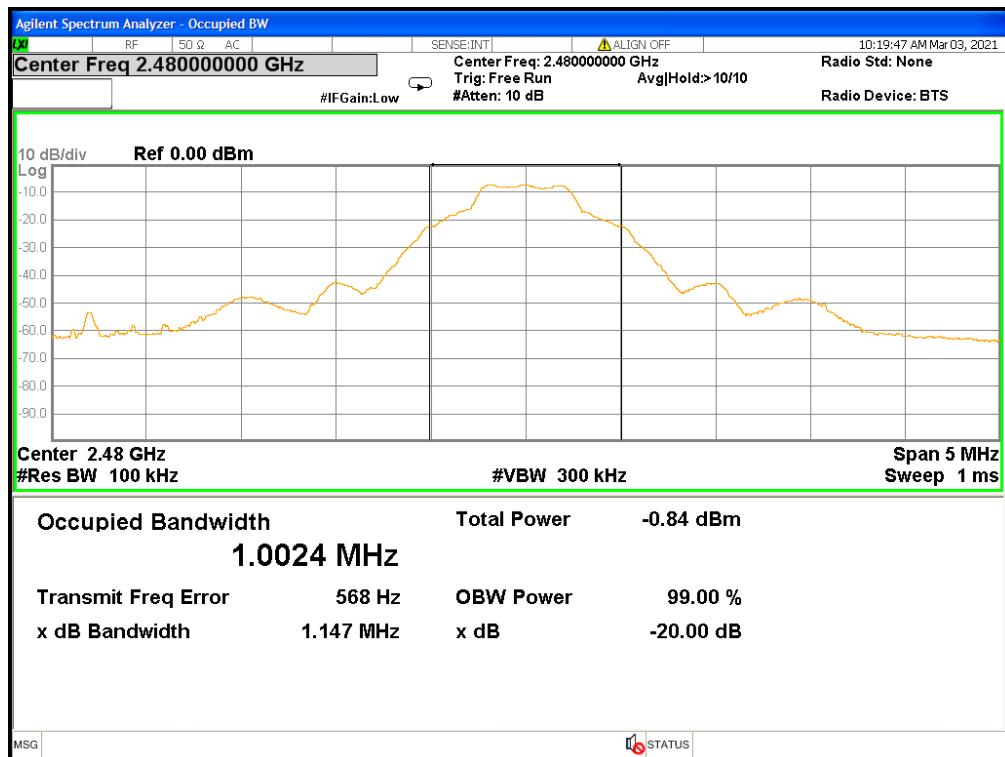


GFSK (1Mbps) Channel: 39

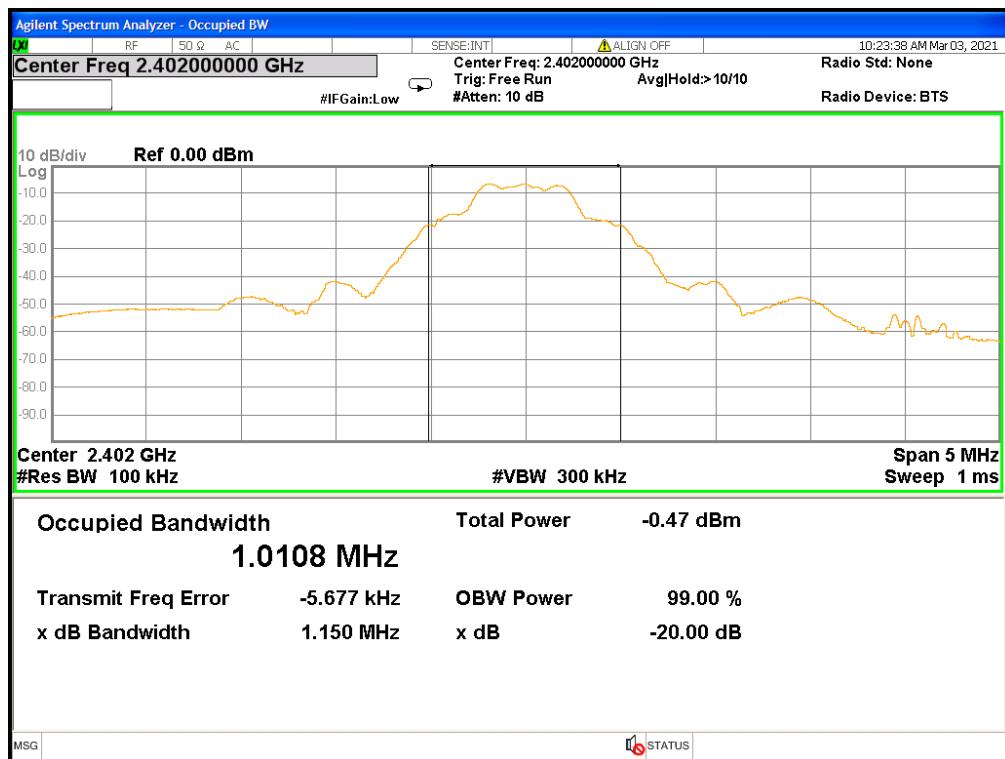




GFSK (1Mbps) Channel: 78

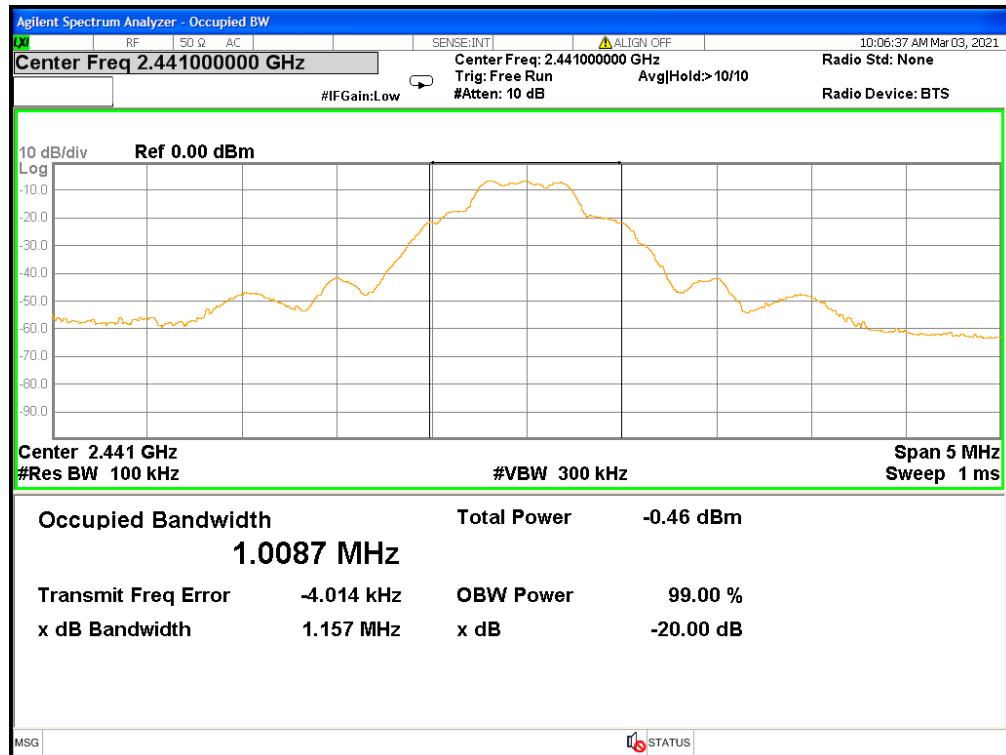


$\pi/4$ -DQPSK (2Mbps) Channel: 00

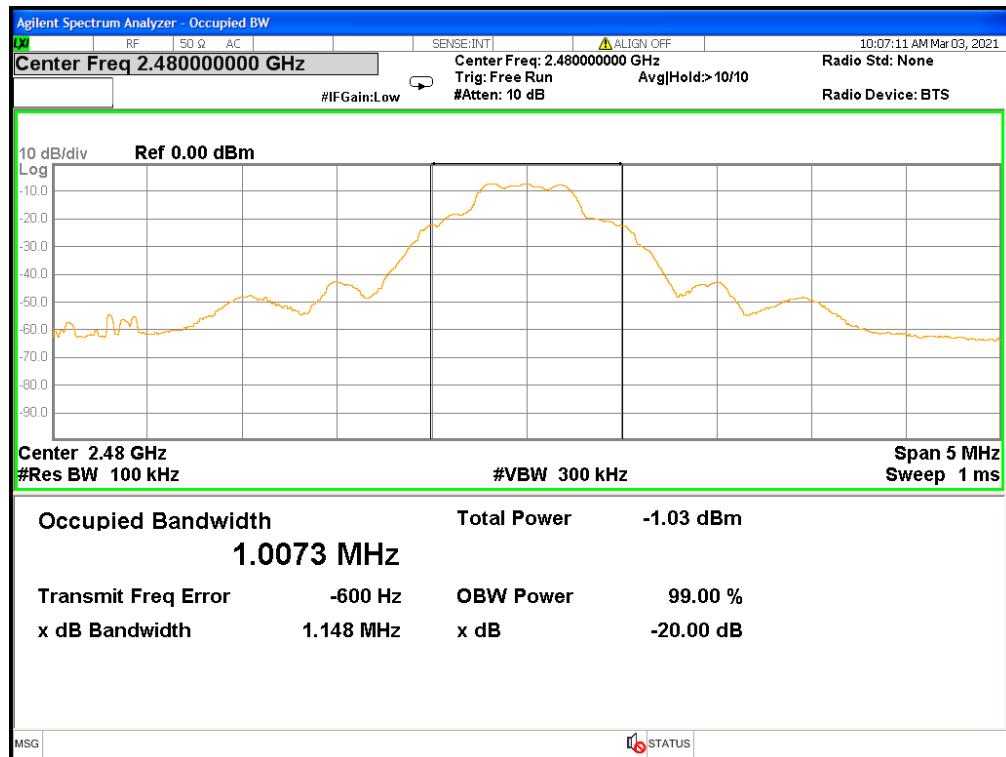




$\pi/4$ -DQPSK (2Mbps) Channel: 39

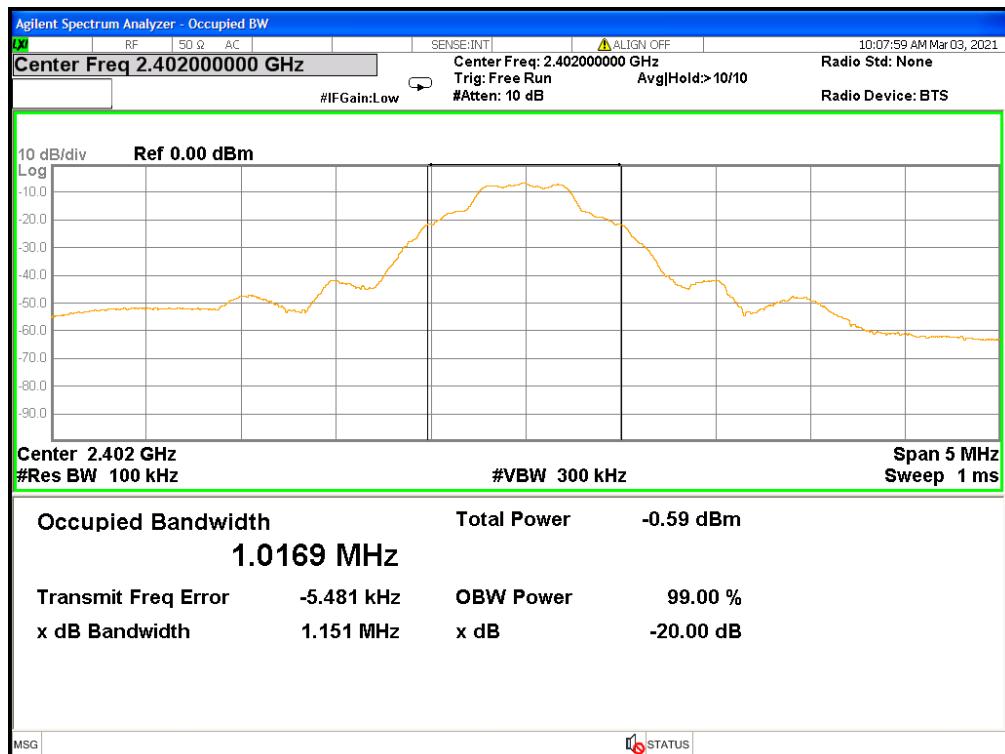


$\pi/4$ -DQPSK (2Mbps) Channel: 78

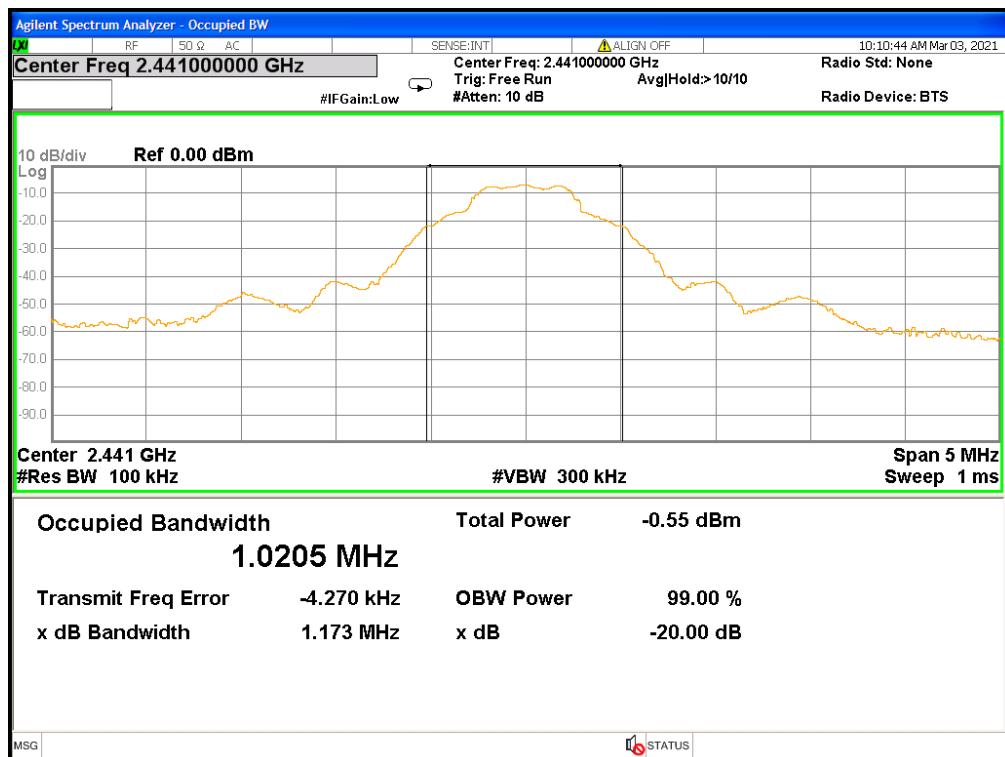




8DPSK (3Mbps) Channel: 00

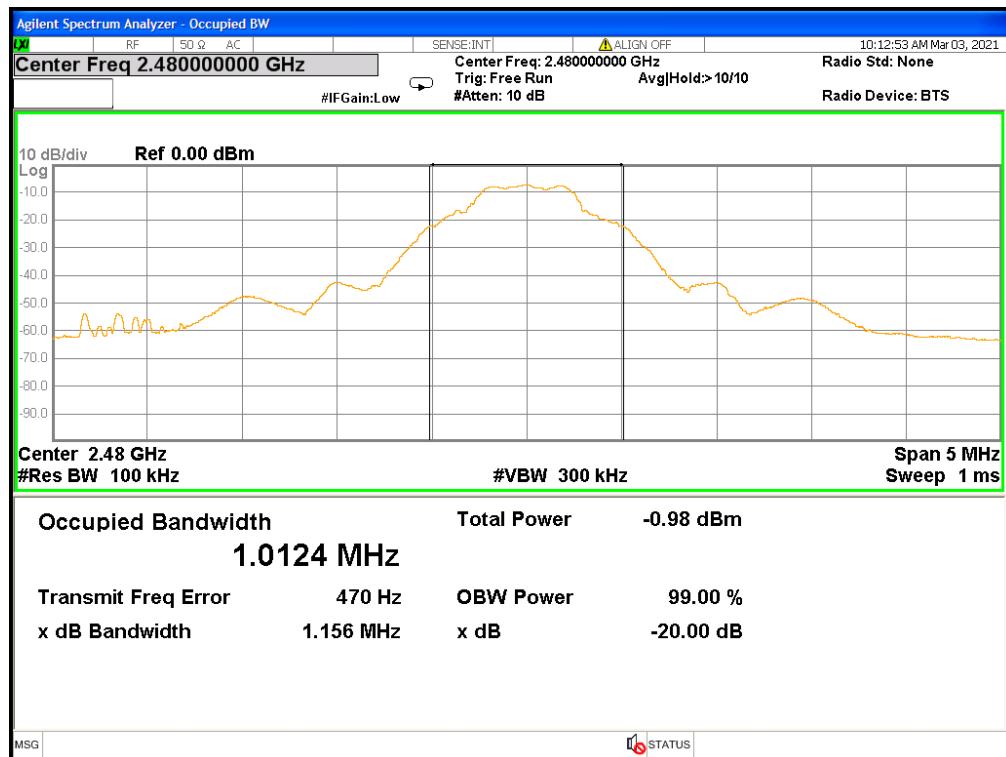


8DPSK (3Mbps) Channel: 39





8DPSK (3Mbps) Channel: 78





9. Frequencies Separation

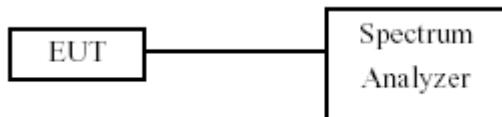
9.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 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.

9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels.

9.3 Test Setup Layout



9.4 Test Result and Data

Test Date: 2020.05.07

Temperature: 23°C

Atmospheric pressure: 1012 hPa

Humidity: 57%

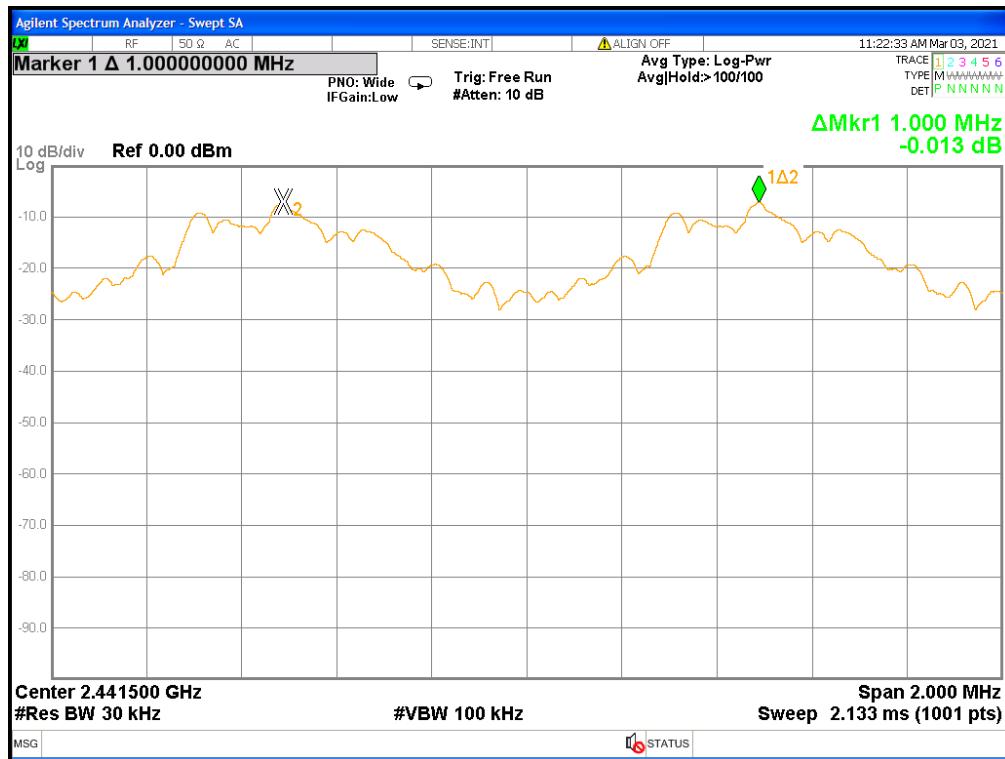
Modulation Standard	Channel	Frequency (MHz)	Frequency Separation (MHz)	2/3 20dB Bandwidth (MHz)
GFSK (1Mbps)	00	2402	0.996	0.774
	39	2441	1.000	0.772
	78	2480	1.002	0.764
$\pi/4$ -DQPSK (2Mbps)	00	2402	0.998	0.766
	39	2441	1.000	0.771
	78	2480	1.002	0.765
8DPSK (3Mbps)	00	2402	0.996	0.767
	39	2441	1.000	0.782
	78	2480	1.000	0.770



GFSK (1Mbps) Channel: 00



GFSK (1Mbps) Channel: 39

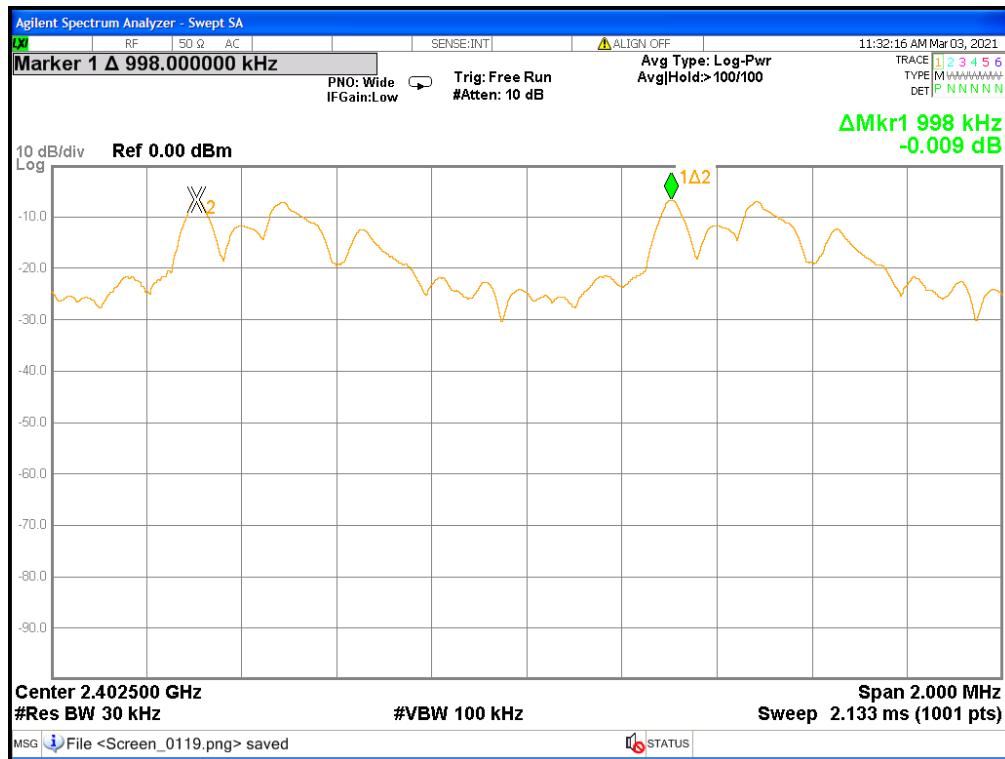




GFSK (1Mbps) Channel: 78

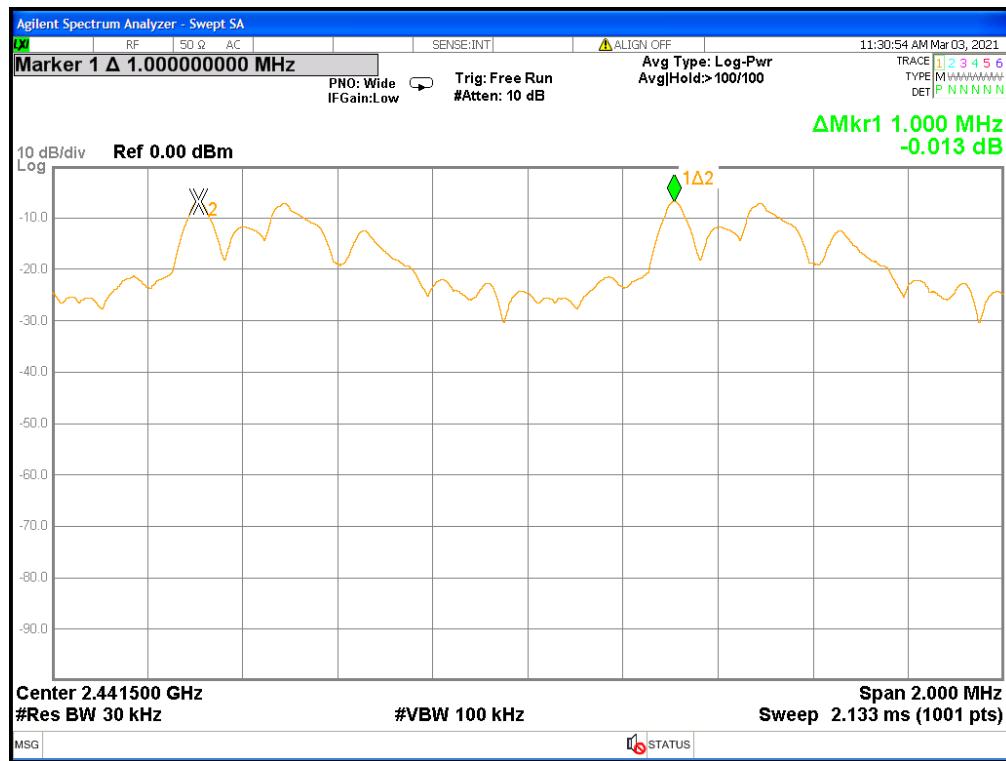


π/4-DQPSK (2Mbps) Channel: 00

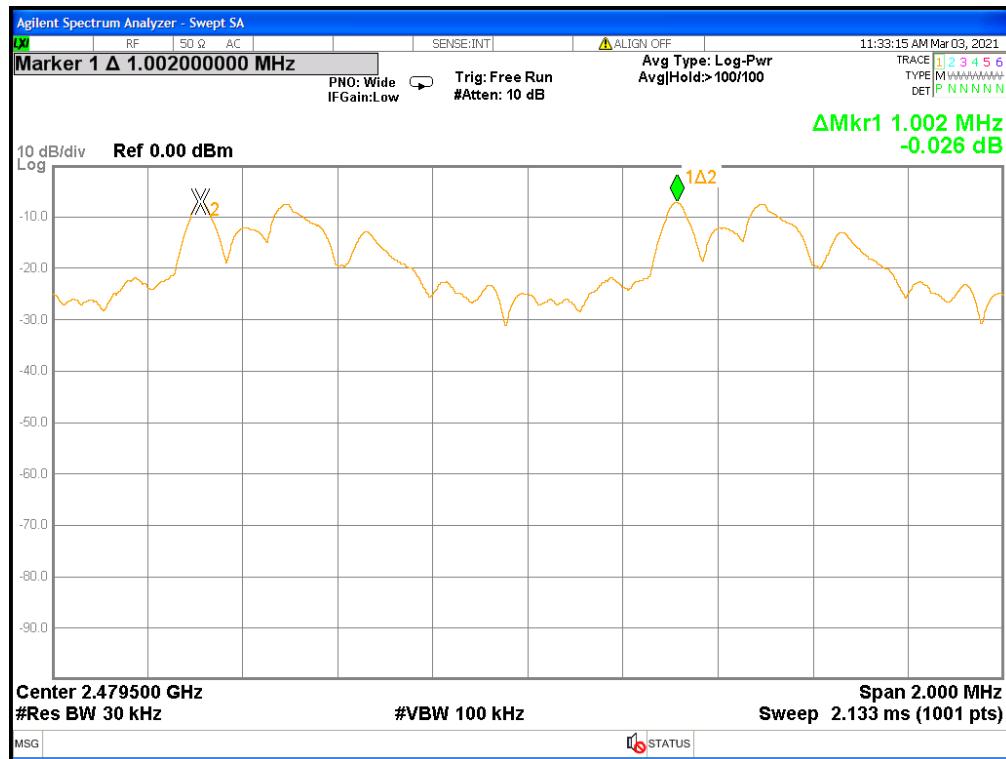




$\pi/4$ -DQPSK (2Mbps) Channel: 39

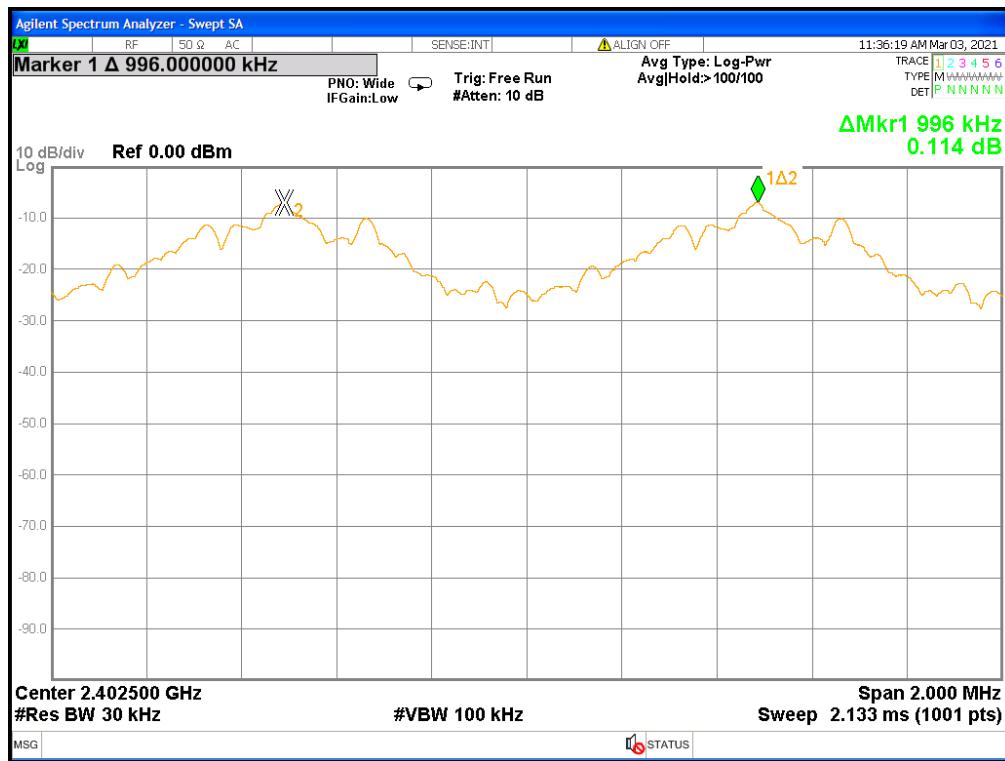


$\pi/4$ -DQPSK (2Mbps) Channel: 78





8DPSK (3Mbps) Channel: 00



8DPSK (3Mbps) Channel: 39





8DPSK (3Mbps) Channel: 78





10. Dwell Time on each channel

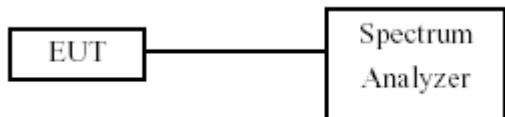
10.1 Test Limit

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

10.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Adjust the center frequency to measure frequency, then set zero span mode.
- c. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
- d. Measure the time duration of one transmission on the measured frequency.

10.3 Test Setup Layout





10.4 Test Result and Data

Test Date: 2021.03.03 Temperature: 24°C

Atmospheric pressure: 1012 hPa Humidity: 55%

Modulation Standard	Channel	Frequency (MHz)	Reading Data (ms)	Dwell Time (ms)
GFSK DH1	0	2402	0.4243	135.776
	39	2441	0.4243	135.776
	78	2480	0.4144	132.608
GFSK DH3	0	2402	1.6670	266.720
	39	2441	1.6770	268.320
	78	2480	1.6770	268.320
GFSK DH5	0	2402	2.9210	311.573
	39	2441	2.9210	311.573
	78	2480	2.9210	311.573
p/4-DQPSK 2DH1	0	2402	0.4341	138.912
	39	2441	0.4341	138.912
	78	2480	0.4243	135.763
p/4-DQPSK 2DH3	0	2402	1.6580	265.280
	39	2441	1.6770	268.320
	78	2480	1.6770	268.320
p/4-DQPSK 2DH5	0	2402	2.9210	311.573
	39	2441	2.9210	311.573
	78	2480	2.9210	311.573
8DPSK 3DH1	0	2402	0.4341	138.912
	39	2441	0.4243	135.776
	78	2480	0.4144	132.608
8DPSK 3DH3	0	2402	1.6770	268.320
	39	2441	1.6770	268.320
	78	2480	1.6770	268.320
8DPSK 3DH5	0	2402	2.9300	312.533
	39	2441	2.9400	313.600
	78	2480	2.9210	311.573

Test period: 0.4(second/ channel) x 79 channel= 31.6 second

Example:

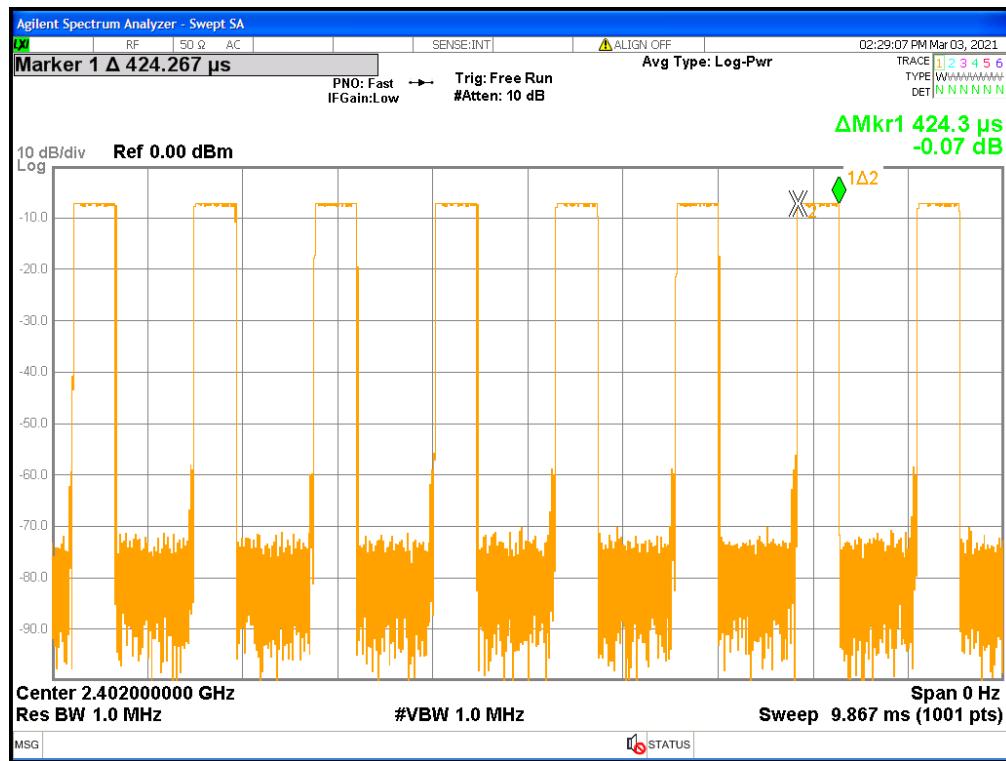
CH00,DH1 mode = $0.420 \text{ (ms)} * [(1600/2)/79] * 31.6 = 134.4 \text{ (ms)}$

CH00,DH3 mode = $1.680 \text{ (ms)} * [(1600/4)/79] * 31.6 = 268.8 \text{ (ms)}$

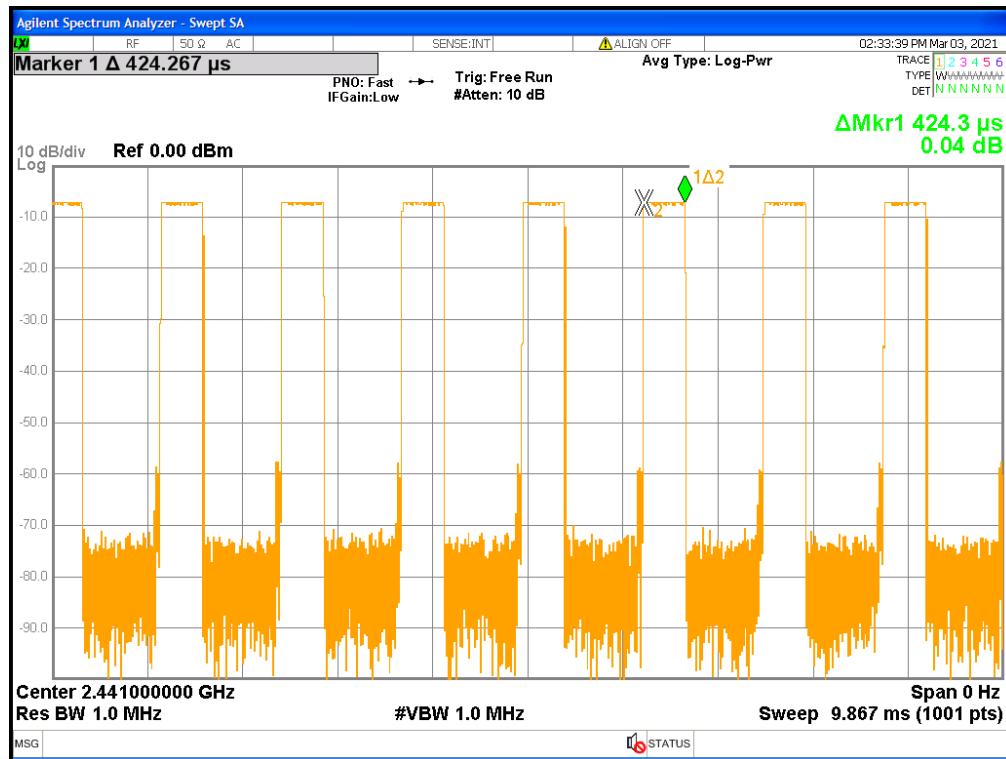
CH00,DH5 mode = $2.930 \text{ (ms)} * [(1600/6)/79] * 31.6 = 312.5 \text{ (ms)}$



GFSK (1Mbps) Rate: DH1 Channel: 00



GFSK (1Mbps) Rate: DH1 Channel: 39

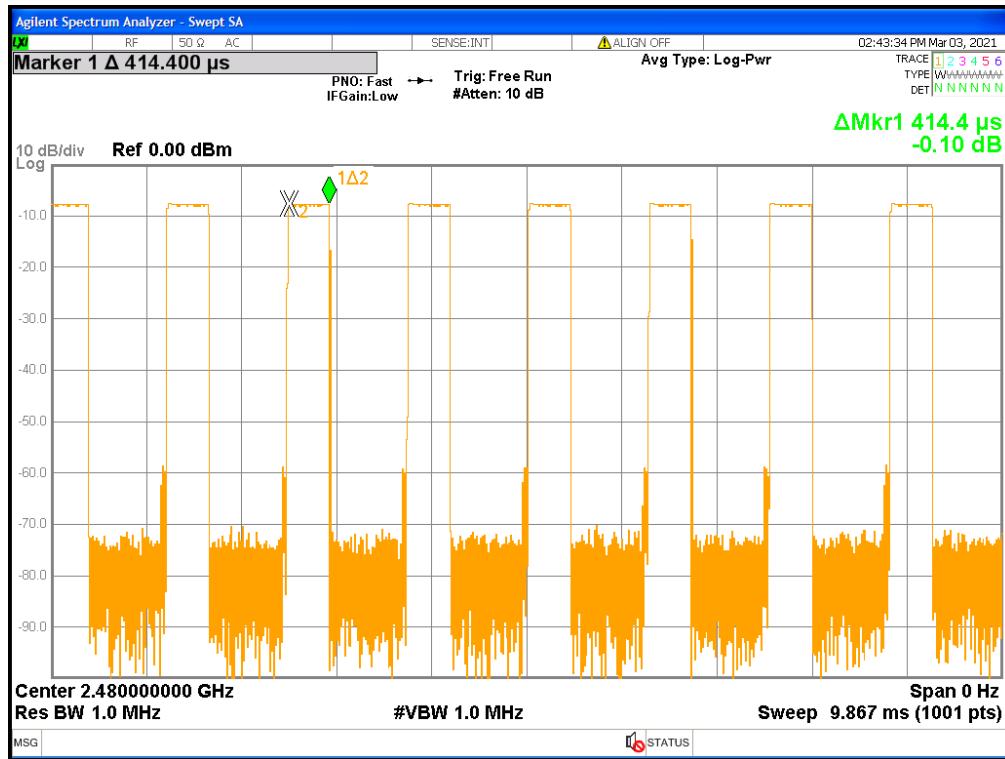




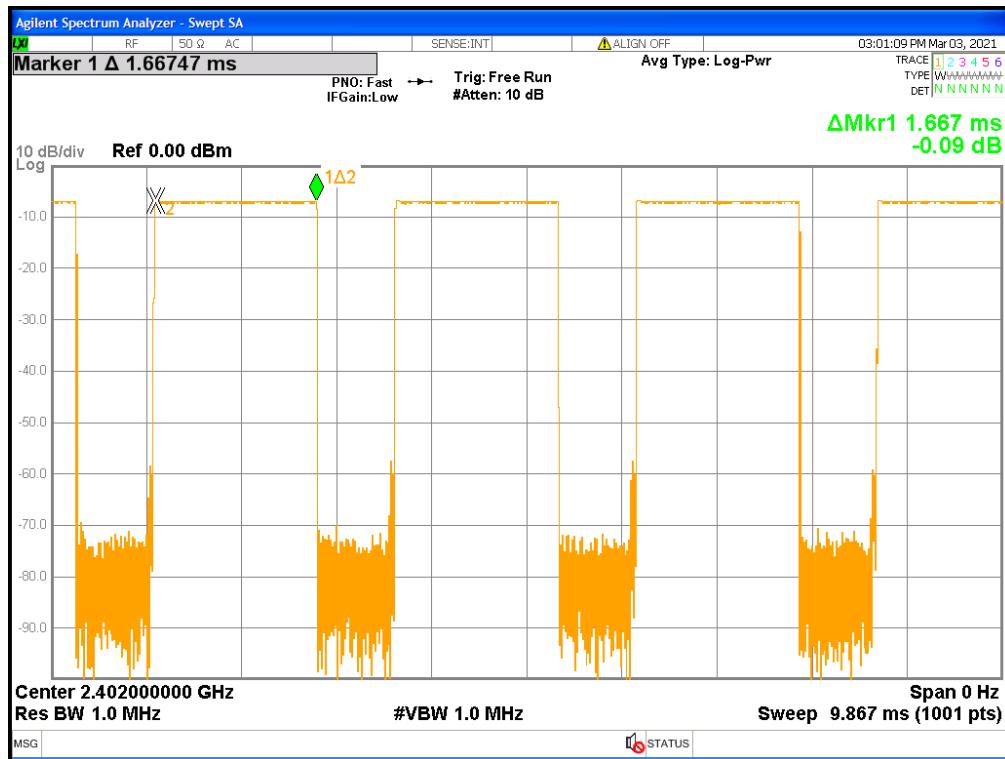
WH Technology Corp.

Date of Issue: Mar. 11, 2021
Report No.: WH-FCC-R21012903

GFSK (1Mbps) Rate: DH1 Channel: 78

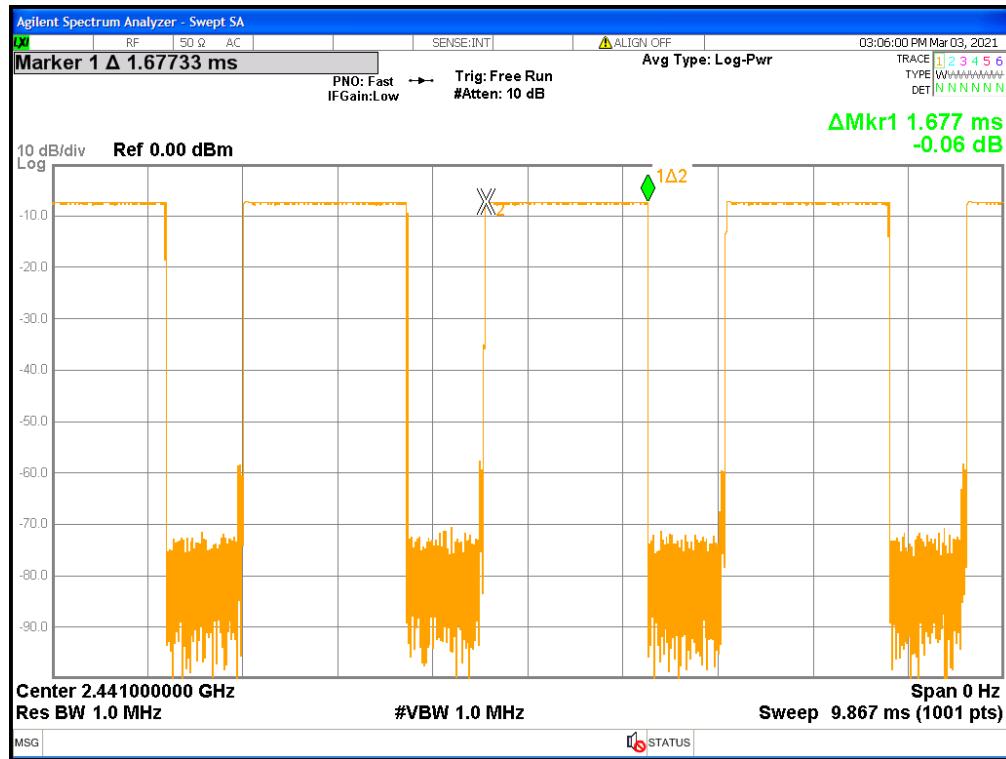


GFSK (1Mbps) Rate: DH3 Channel: 00

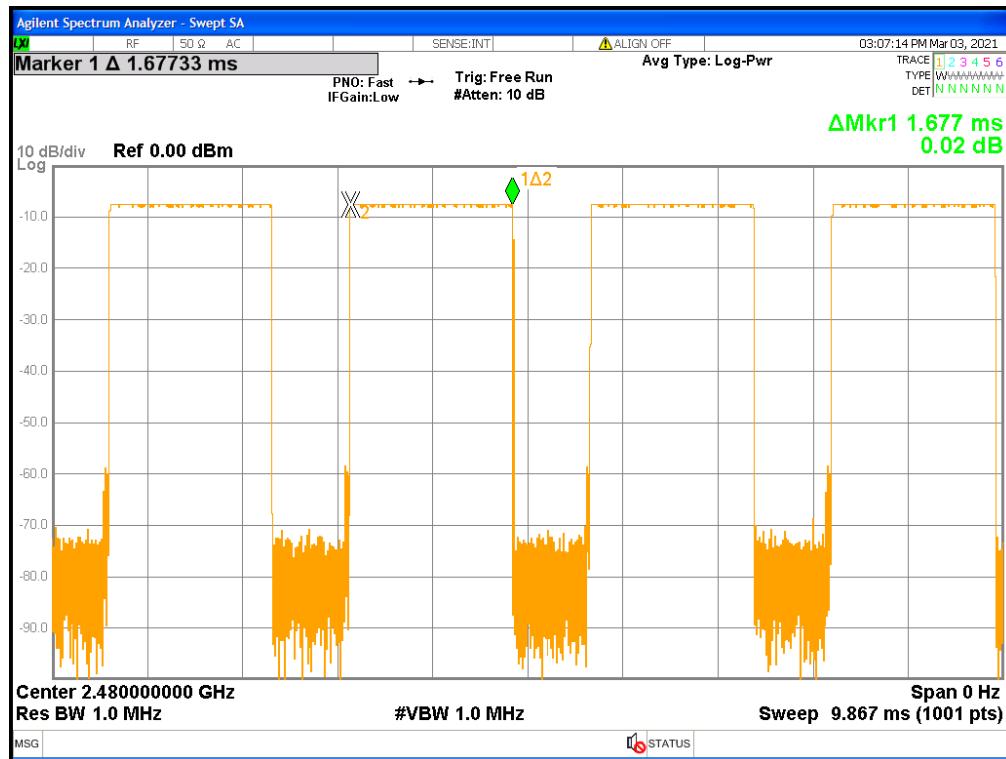




GFSK (1Mbps) Rate: DH3 Channel: 39

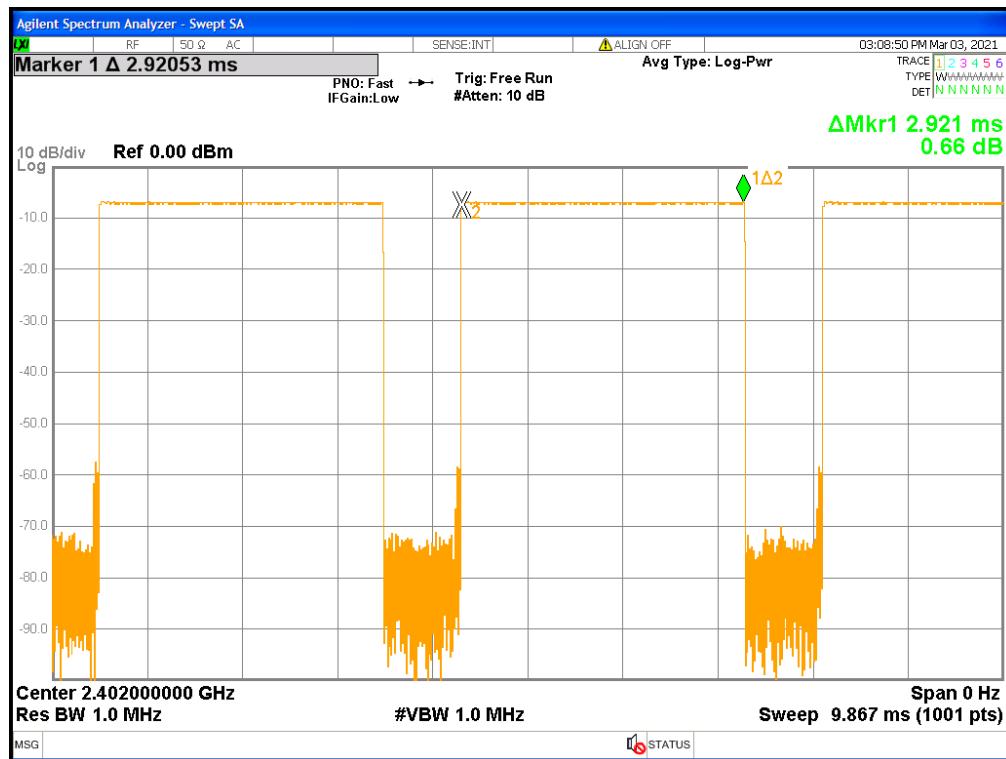


GFSK (1Mbps) Rate: DH3 Channel: 78

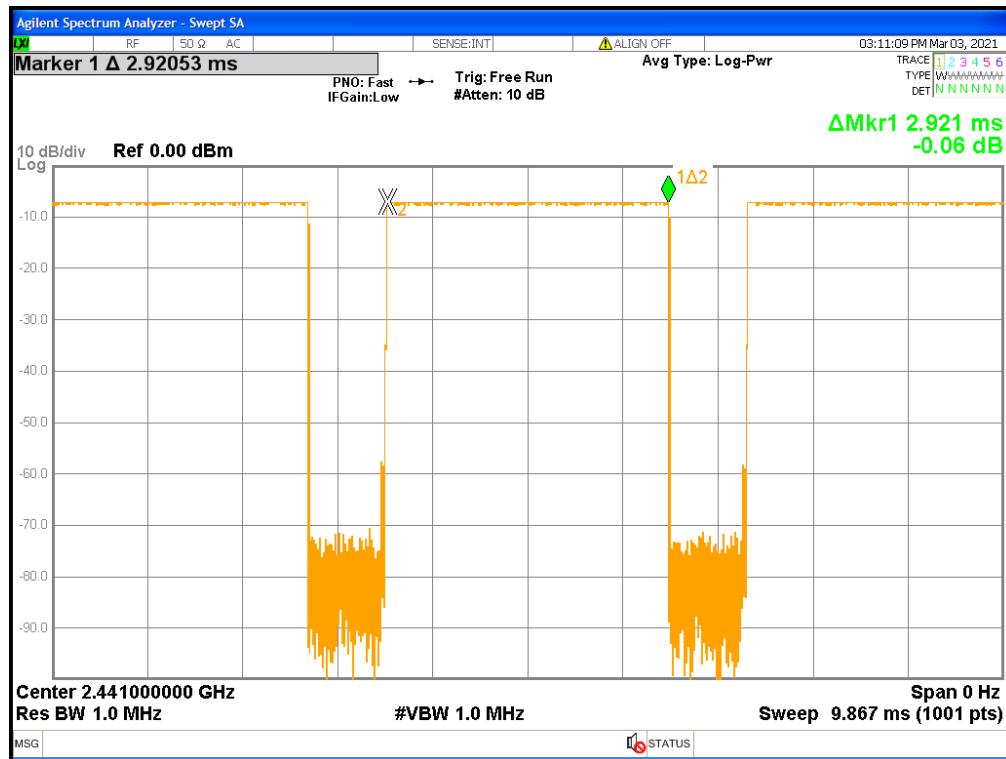




GFSK (1Mbps) Rate: DH5 Channel: 00



GFSK (1Mbps) Rate: DH5 Channel: 39

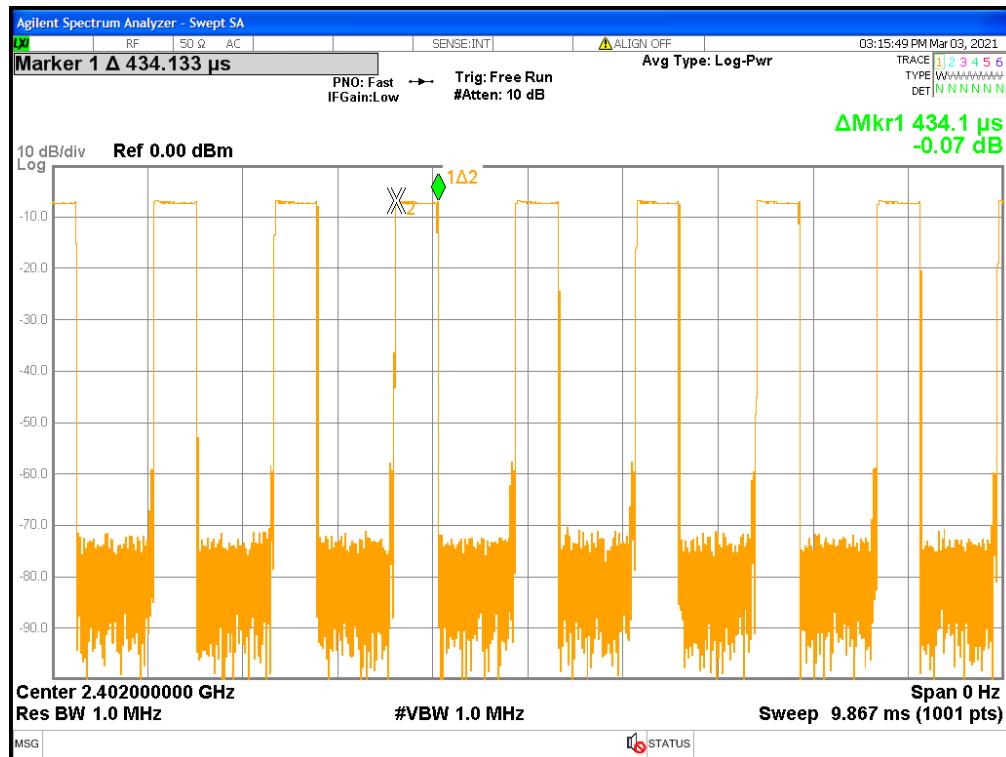




GFSK (1Mbps) Rate: DH5 Channel: 78

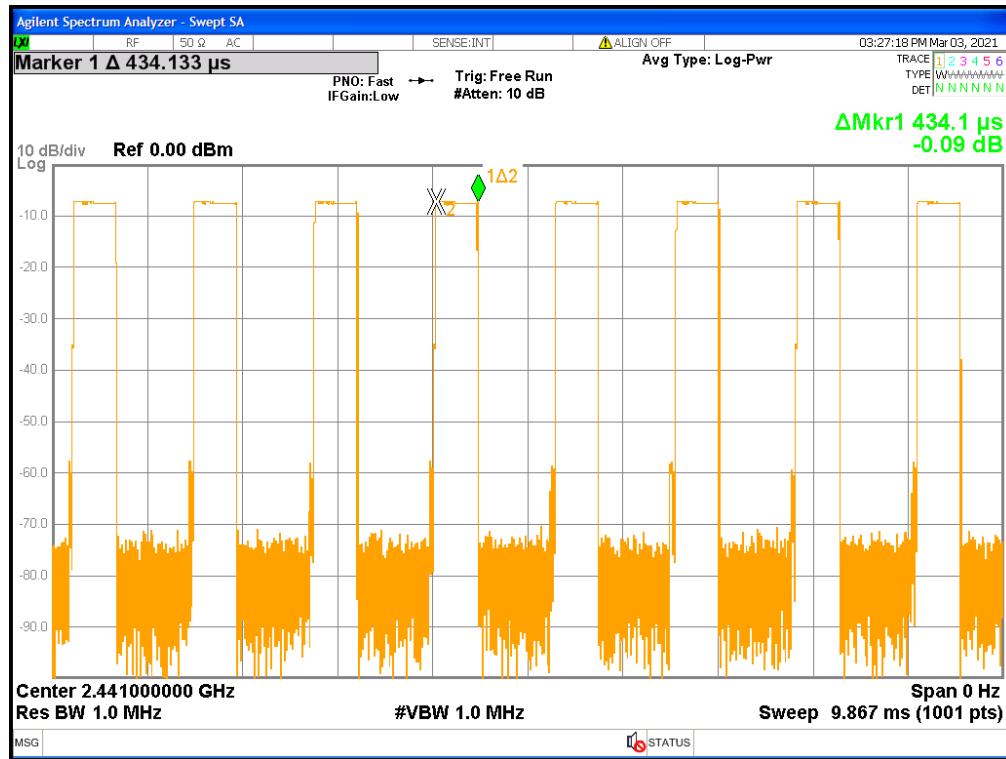


π/4-DQPSK (2Mbps) Rate: 2DH1 Channel: 00

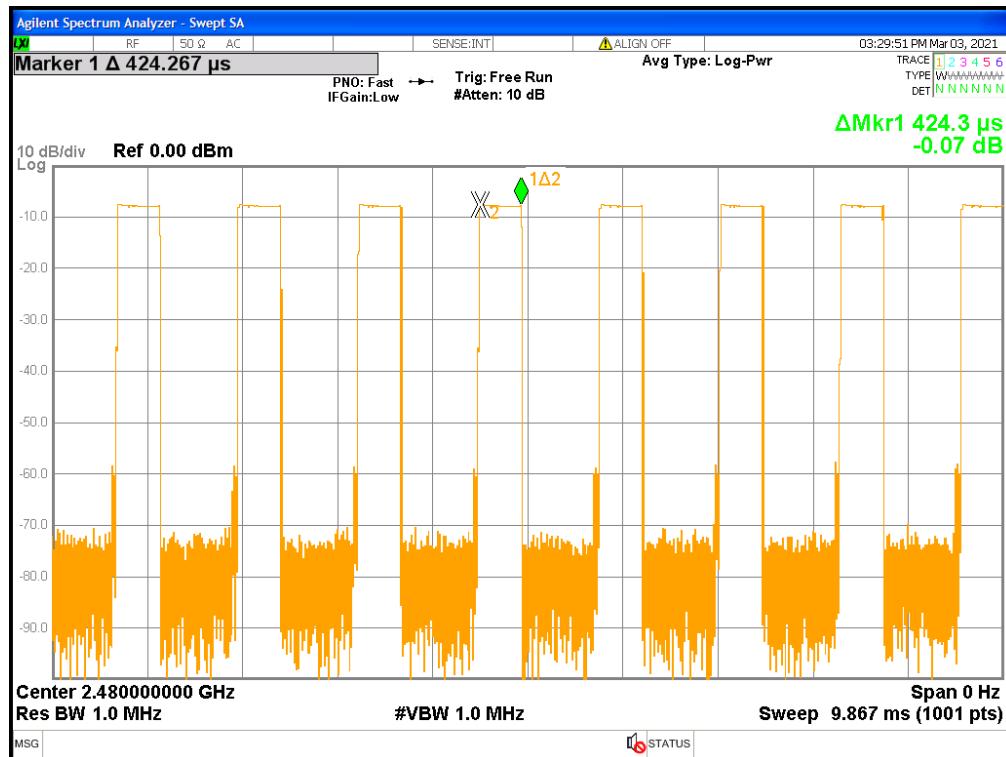




$\pi/4$ -DQPSK (2Mbps) Rate: 2DH1 Channel: 39



$\pi/4$ -DQPSK (2Mbps) Rate: 2DH1 Channel: 78





$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 00

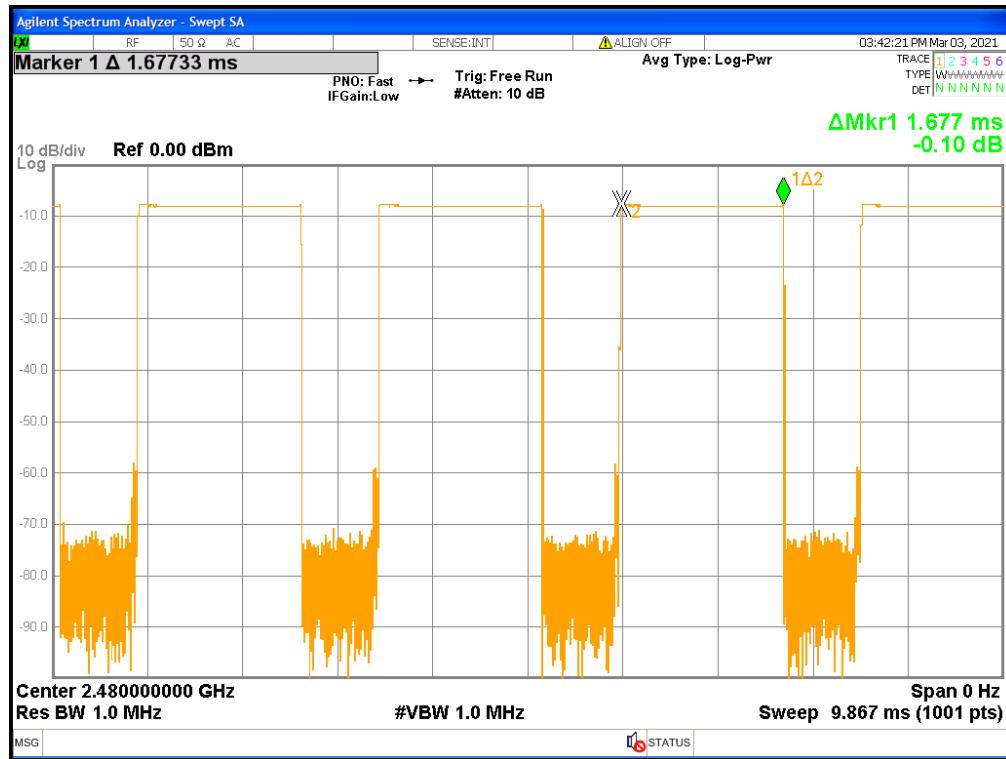


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 39

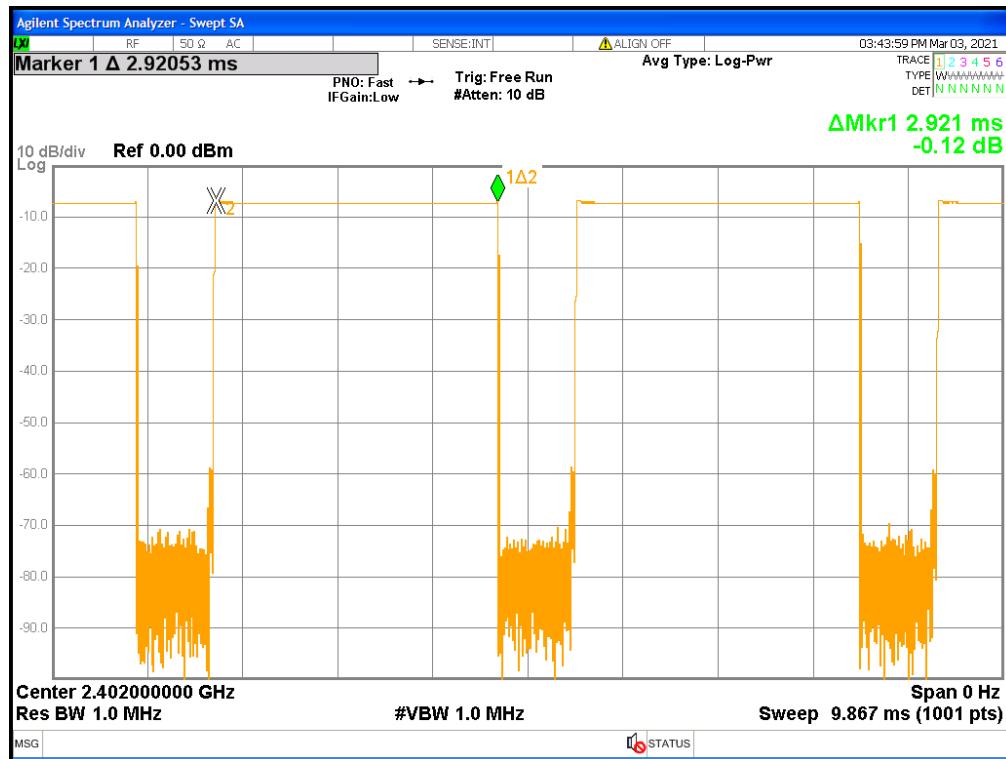




$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 78



$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 00

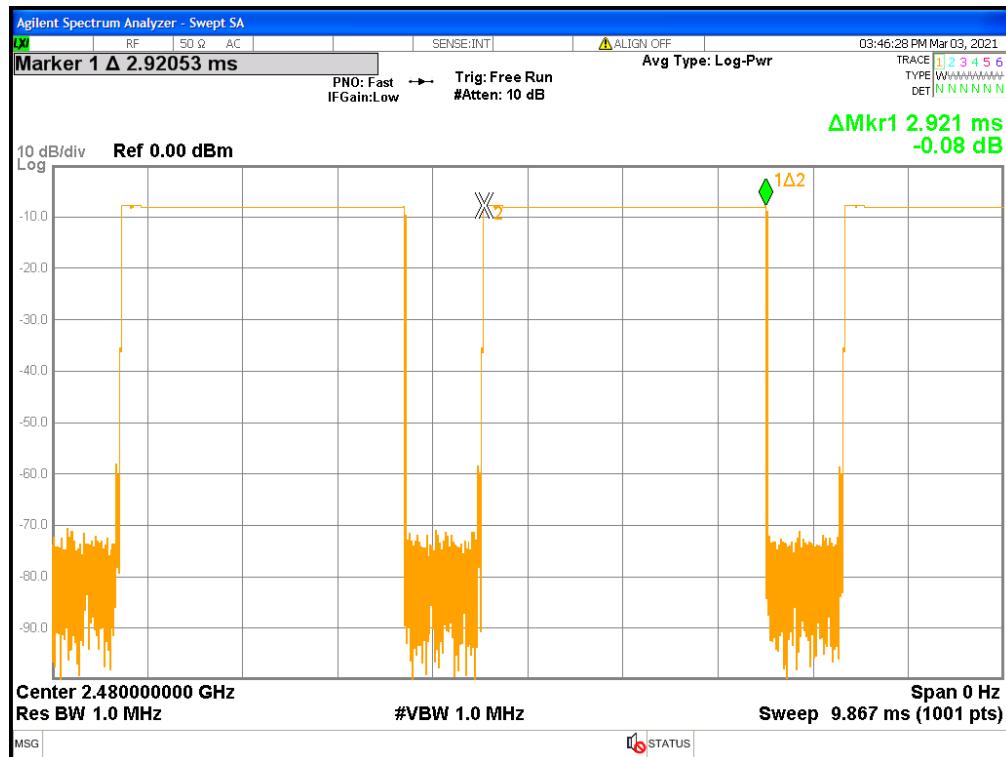




$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 39

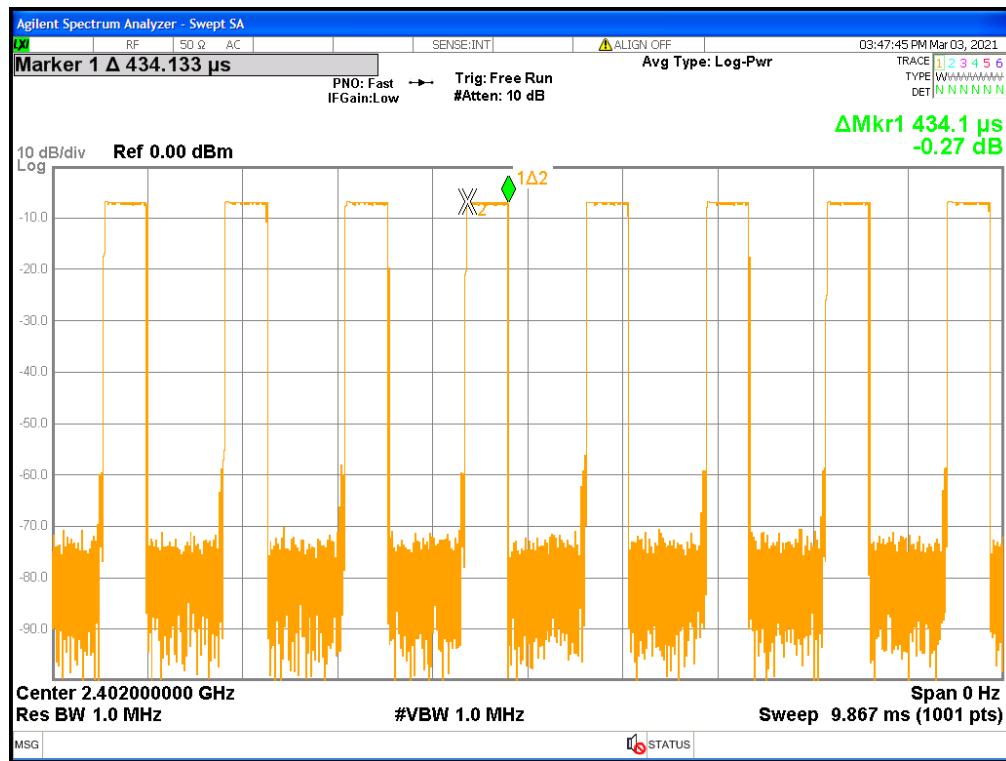


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 78

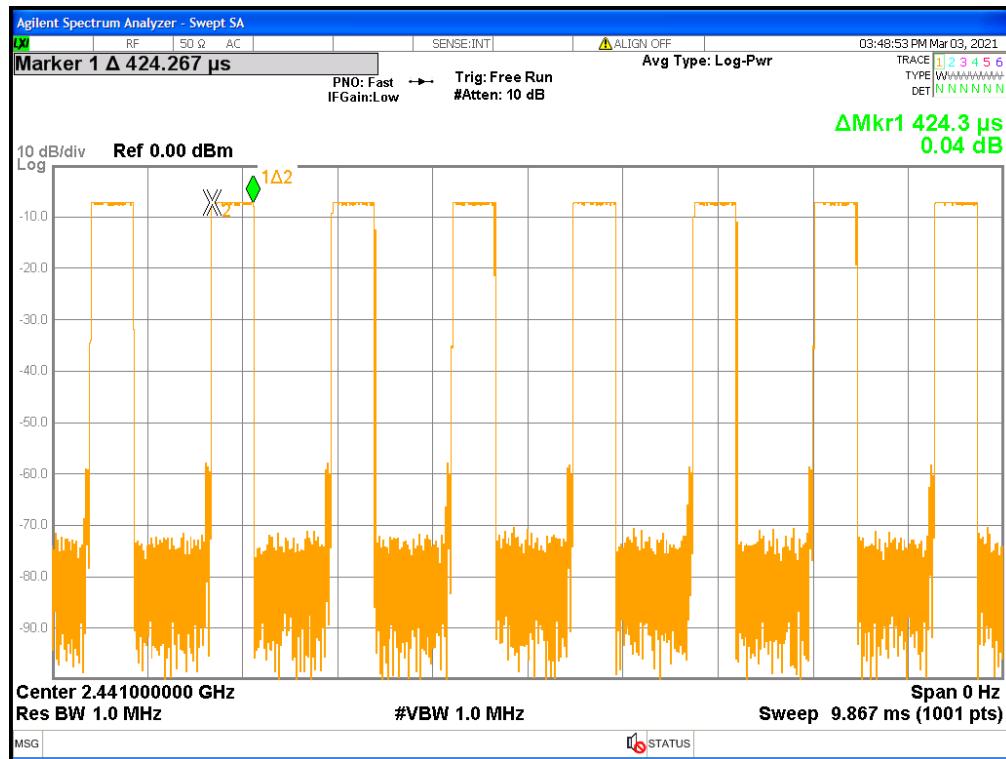




8DPSK (3Mbps) Rate: 3DH1 Channel: 00

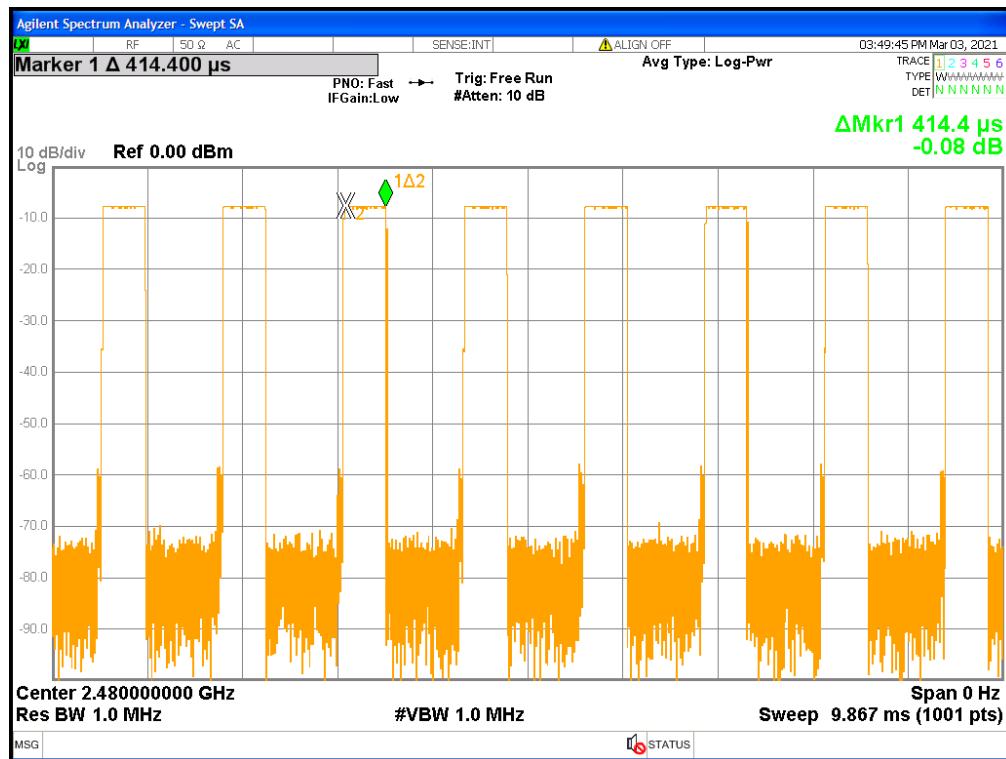


8DPSK (3Mbps) Rate: 3DH1 Channel: 39

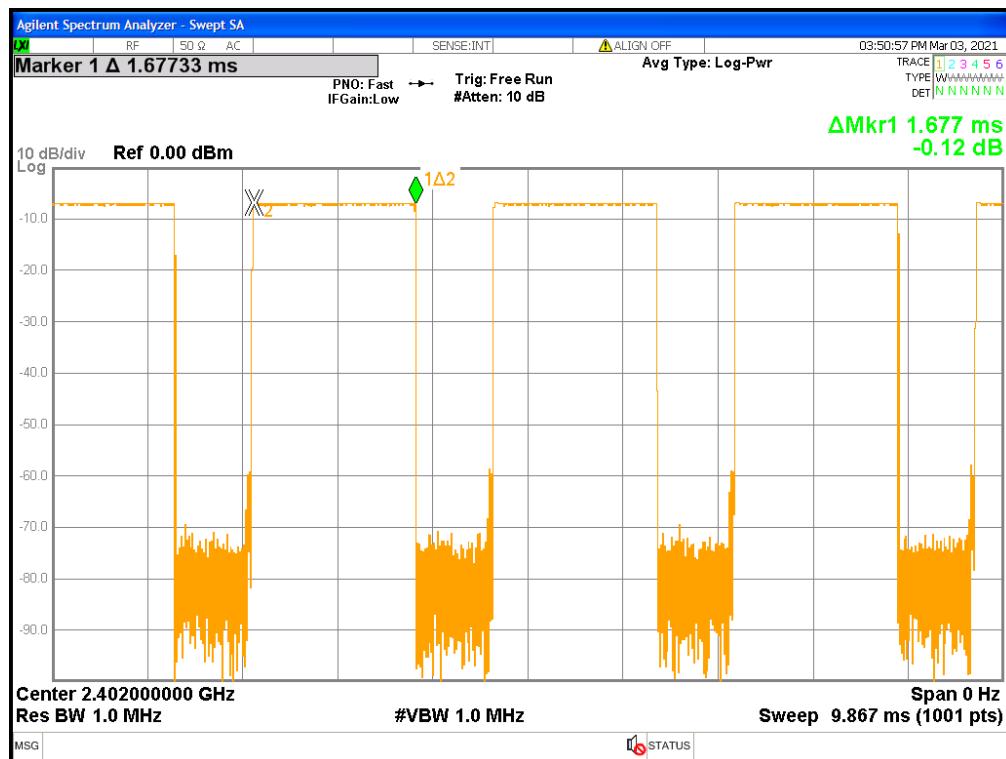




8DPSK (3Mbps) Rate: 3DH1 Channel: 78

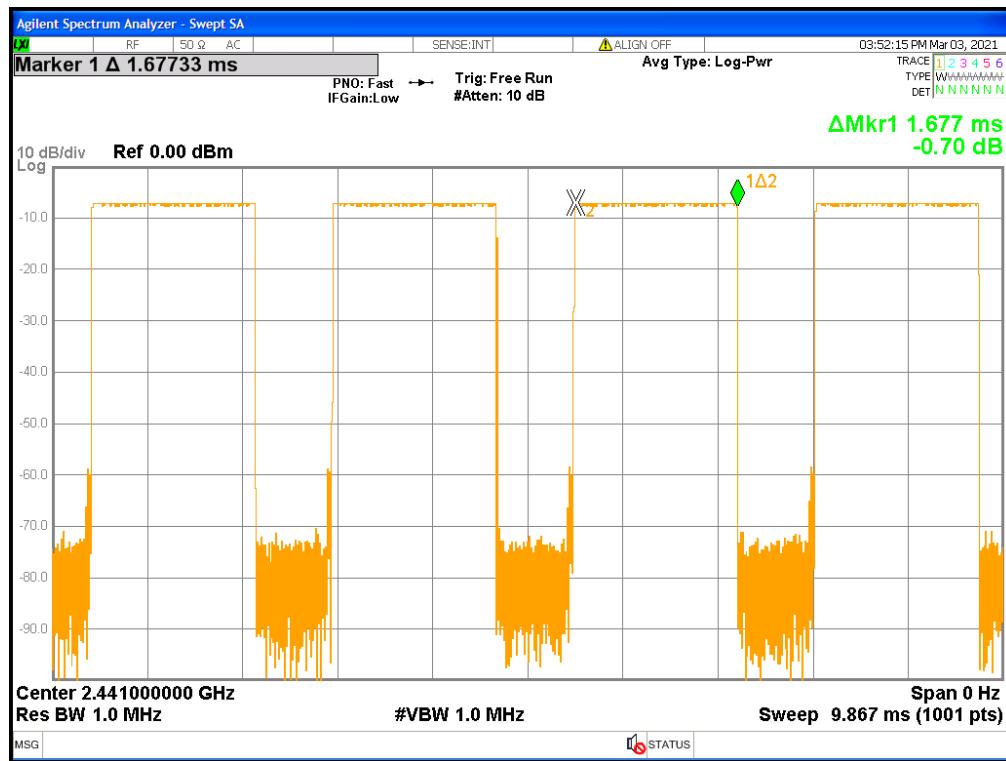


8DPSK (3Mbps) Rate: 3DH3 Channel: 00

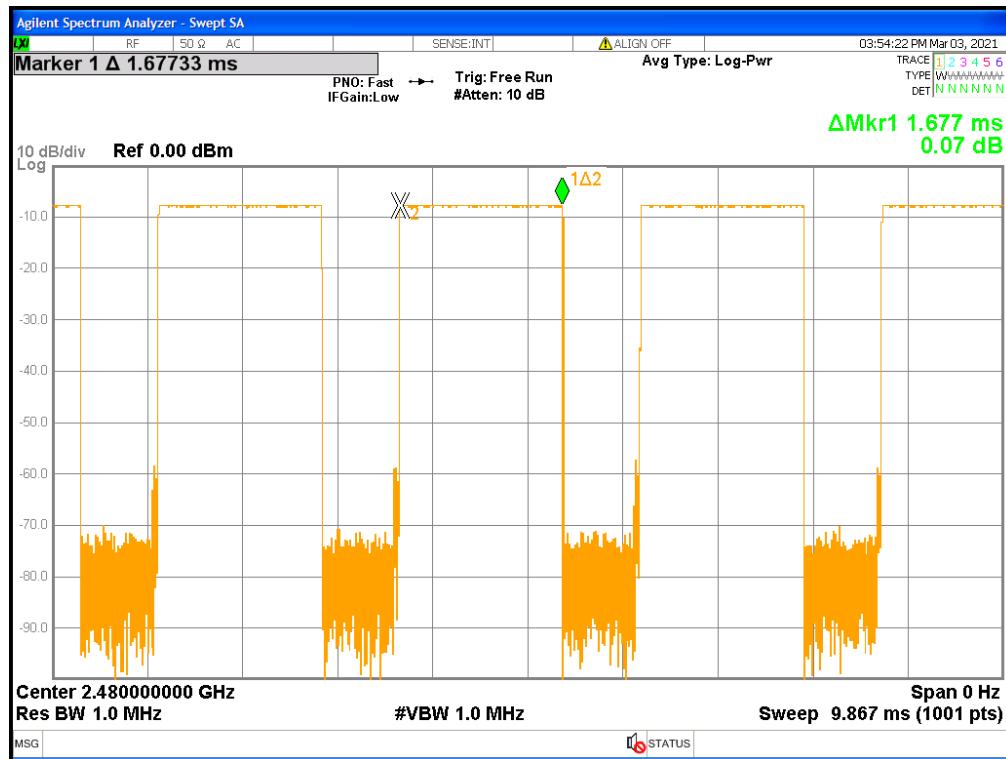




8DPSK (3Mbps) Rate: 3DH3 Channel: 39

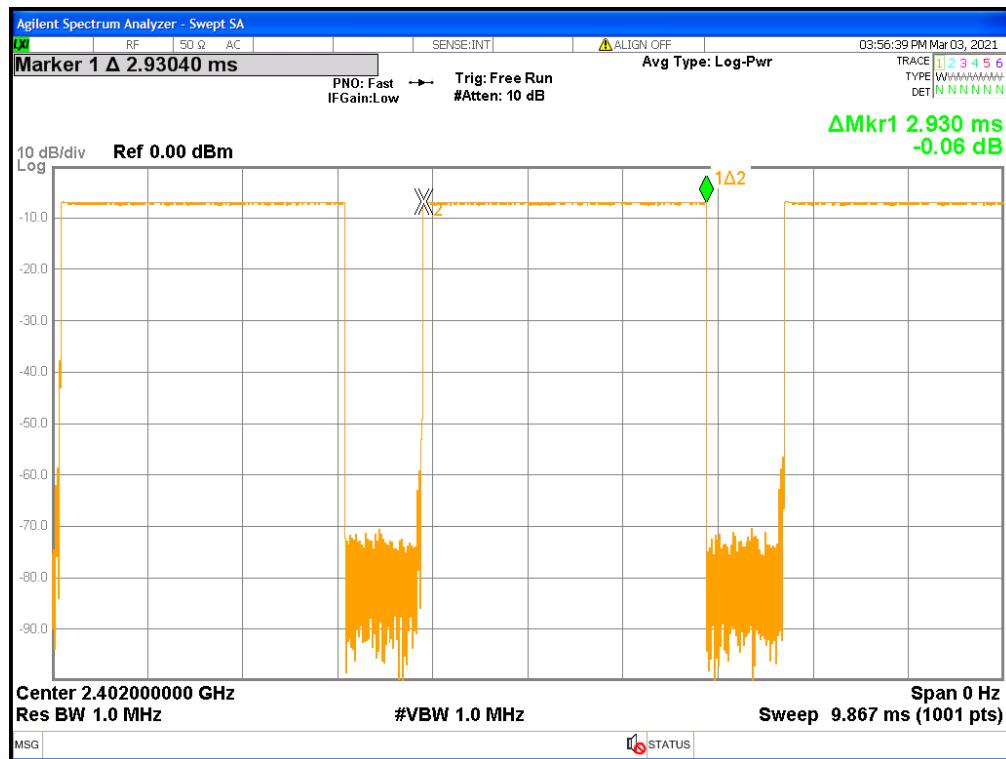


8DPSK (3Mbps) Rate: 3DH3 Channel: 78

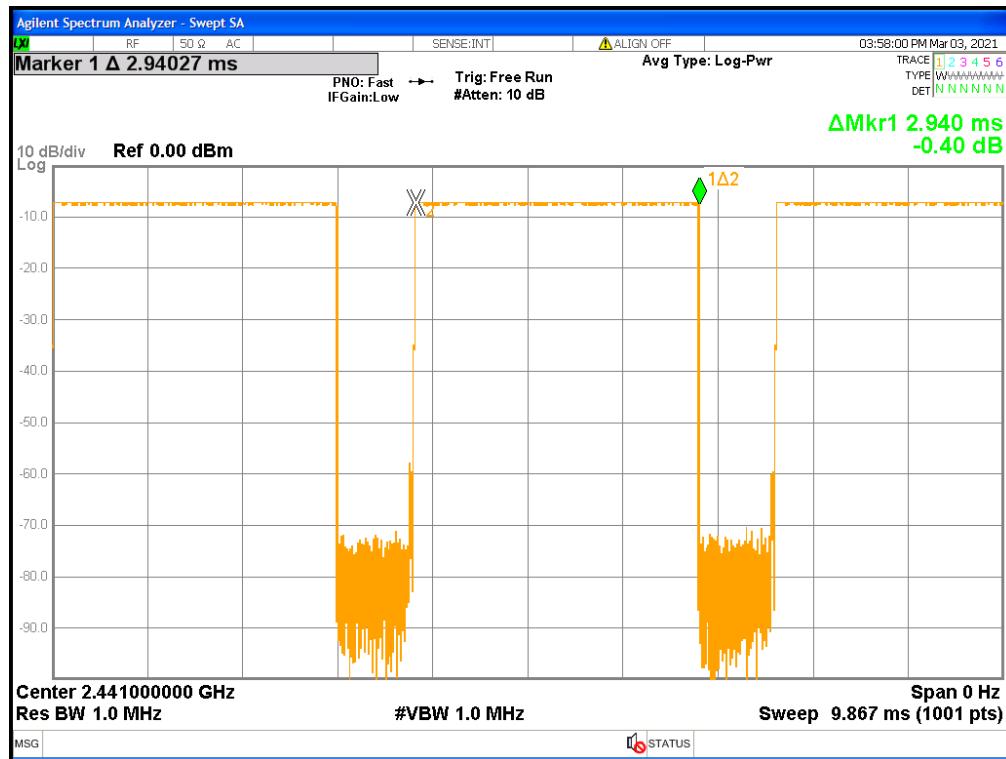




8DPSK (3Mbps) Rate: 3DH5 Channel: 00

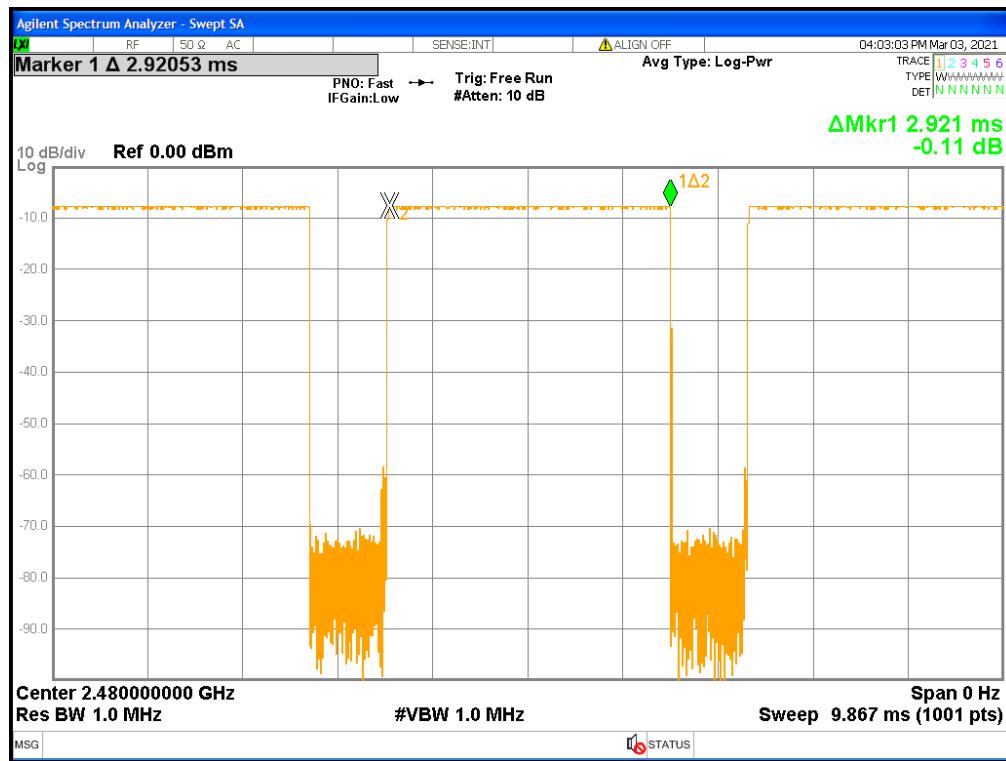


8DPSK (3Mbps) Rate: 3DH5 Channel: 39





8DPSK (3Mbps) Rate: 3DH5 Channel: 78





11. Number of Hopping Channels

11.1 Test Limit

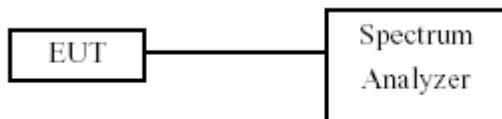
Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

11.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- c. Set the MaxHold function, and then keep the EUT in hopping mode.

Record all the signals from each channel until each one has been record.

11.3 Test Setup Layout



11.4 Test Result and Data

Test Date: 2021.03.03

Temperature: 24°C

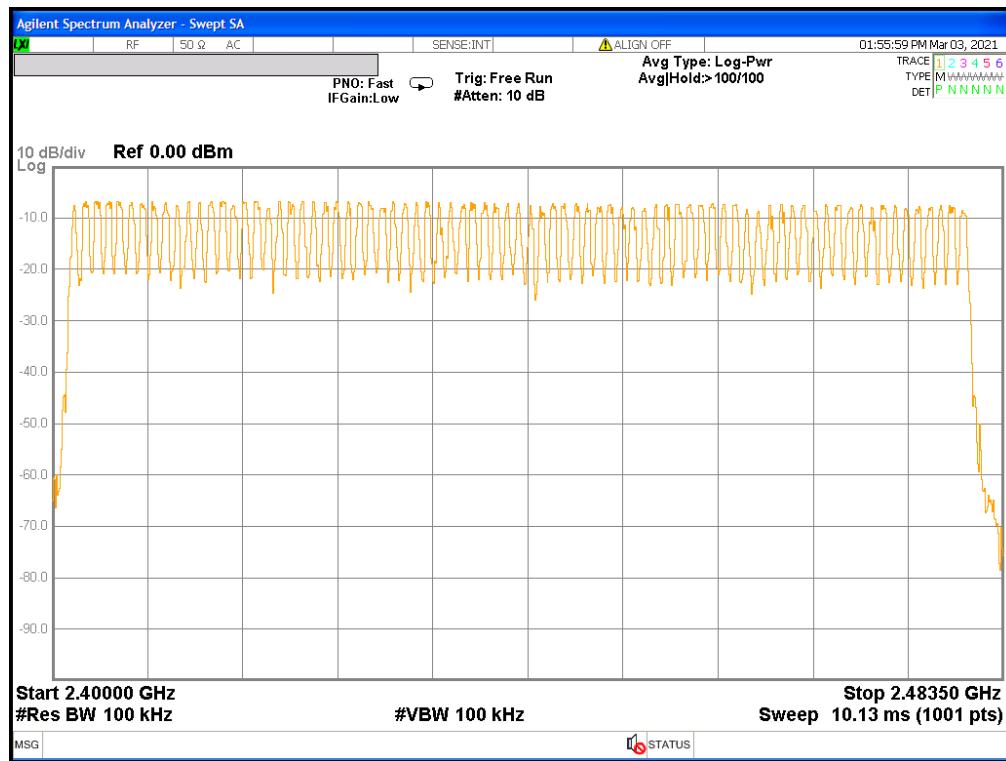
Atmospheric pressure: 1012 hPa

Humidity: 55%

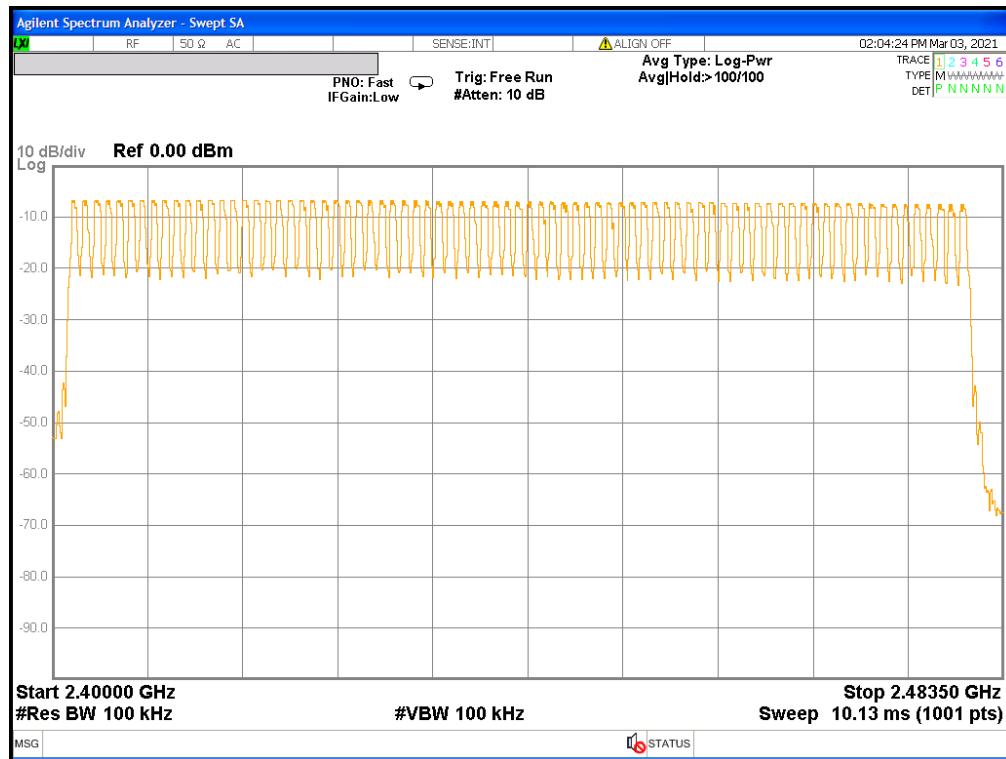
Modulation Standard	Hopping Channels
GFSK (1Mbps)	79
$\pi/4$ -DQPSK (2Mbps)	79
8DPSK (2Mbps)	79



GFSK (1Mbps)

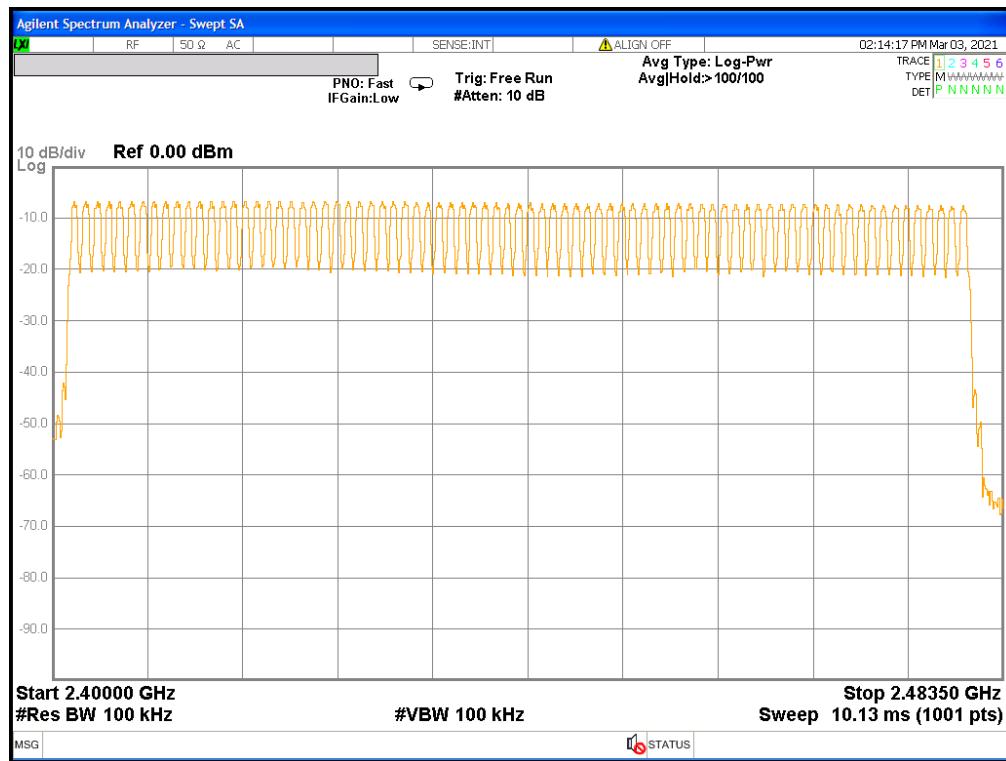


π/4-DQPSK (2Mbps)





8DPSK (3Mbps)





12. Maximum Peak Output Power

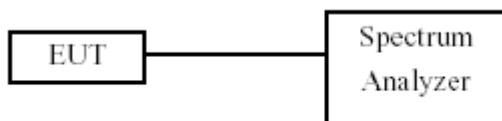
12.1 Test Limit

The Maximum Peak Output Power Measurement is 30 dBm.

12.2 Test Procedures

The transmitter output was connected to the spectrum analyzer. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

12.3 Test Setup Layout



12.4 Test Result and Data

Test Date: 2021.03.03

Temperature: 24°C

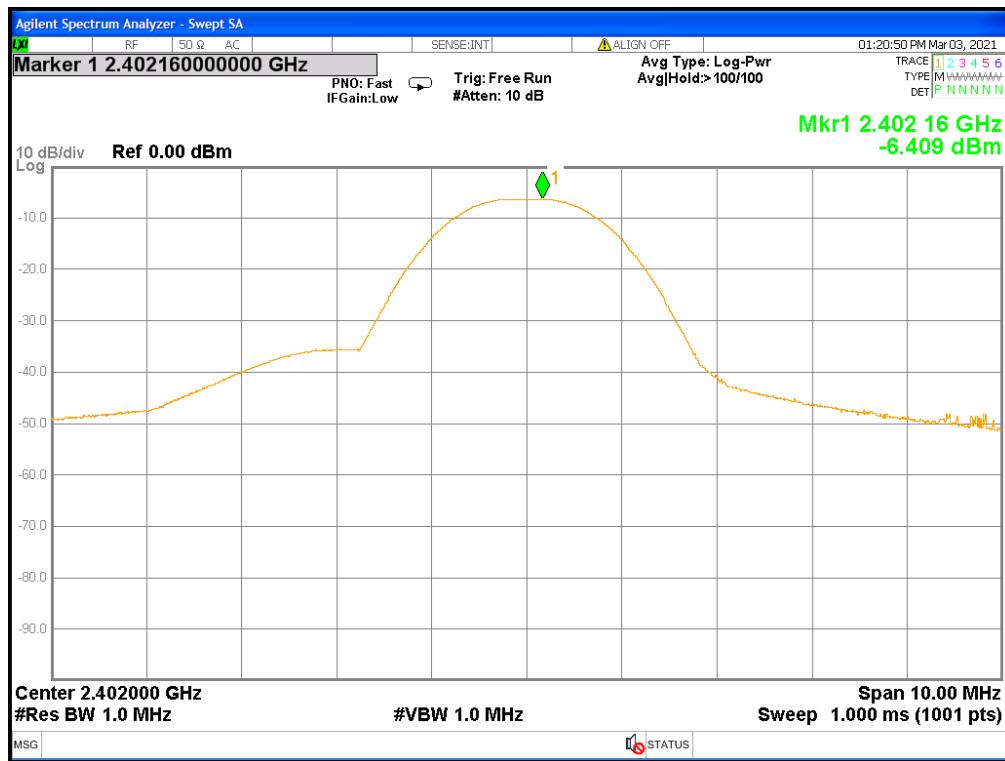
Atmospheric pressure: 1012 hPa

Humidity: 55%

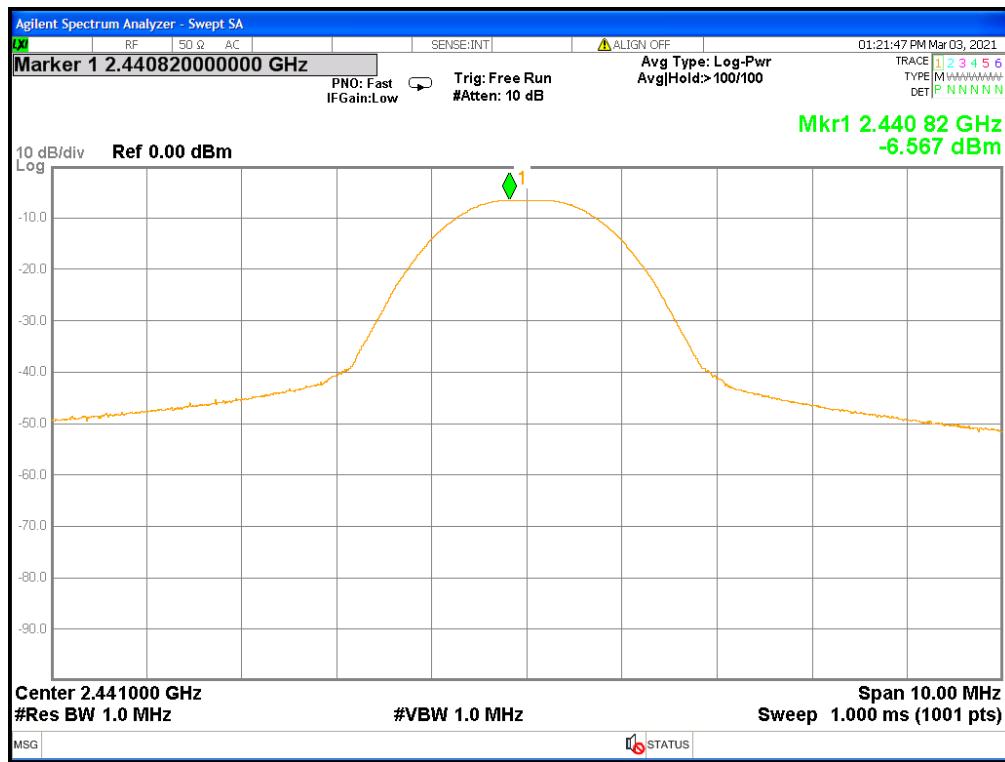
Modulation Standard	Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK (1Mbps)	00	2402	-6.409	0.228613
	39	2441	-6.567	0.220445
	78	2480	-7.148	0.192841
$\pi/4$ -DQPSK (2Mbps)	00	2402	-6.521	0.222792
	39	2441	-6.995	0.199756
	78	2480	-7.591	0.174141
8DPSK (3Mbps)	00	2402	-6.706	0.213501
	39	2441	-7.003	0.199388
	78	2480	-7.598	0.173860



GFSK (1Mbps) Channel: 00

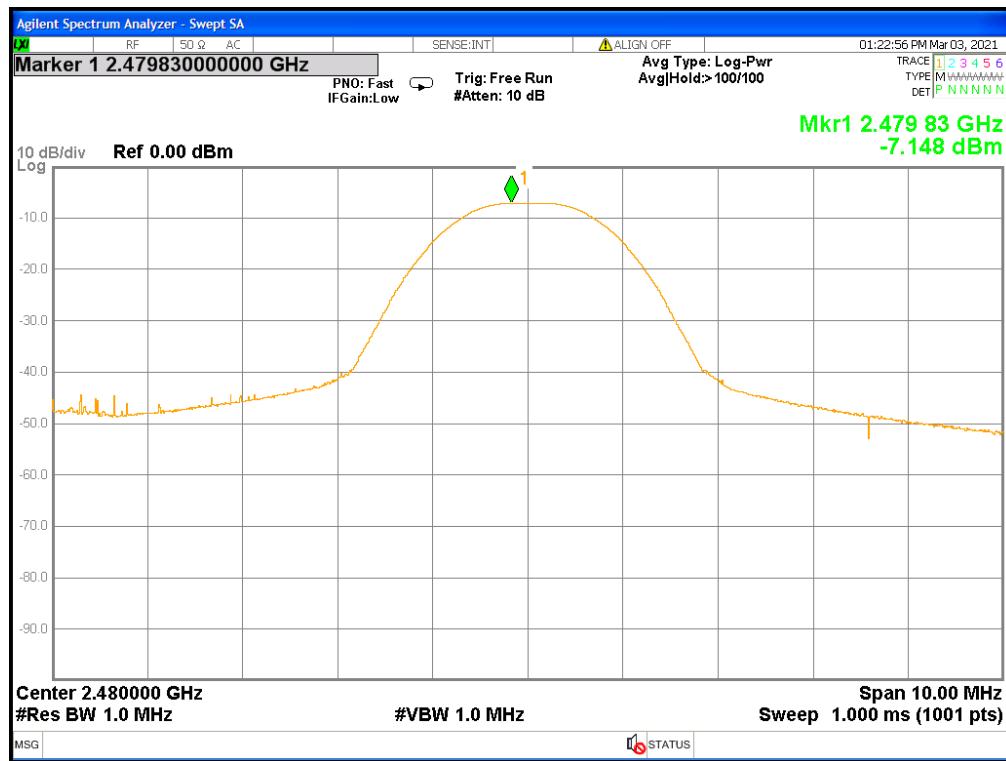


GFSK (1Mbps) Channel: 39

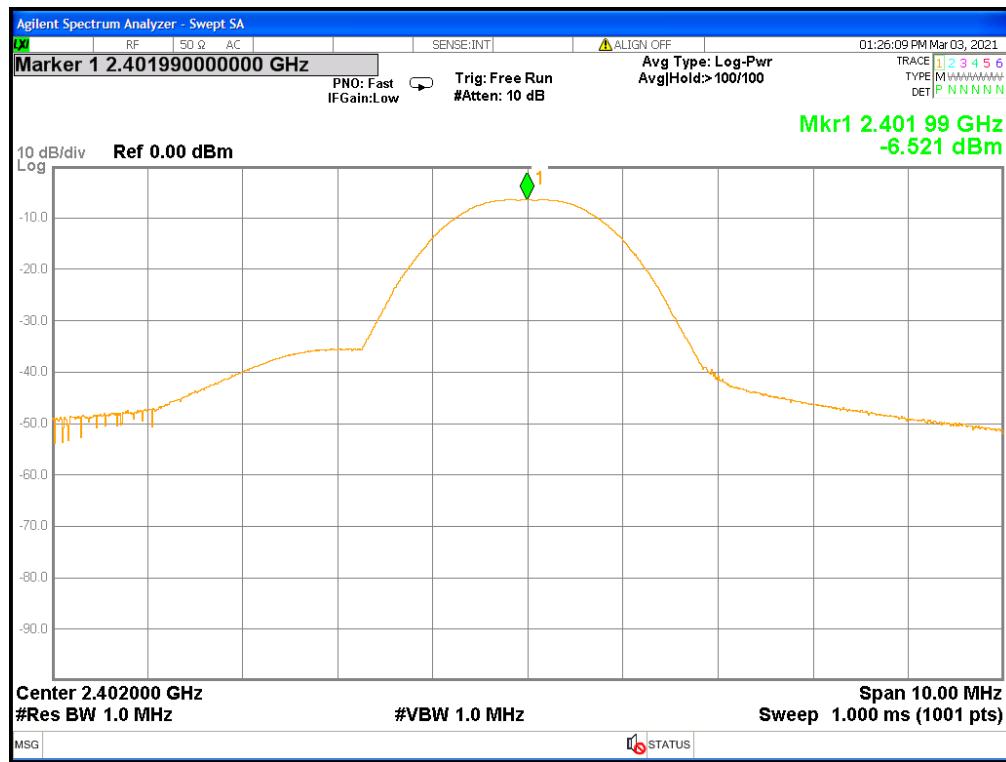




GFSK (1Mbps) Channel: 78

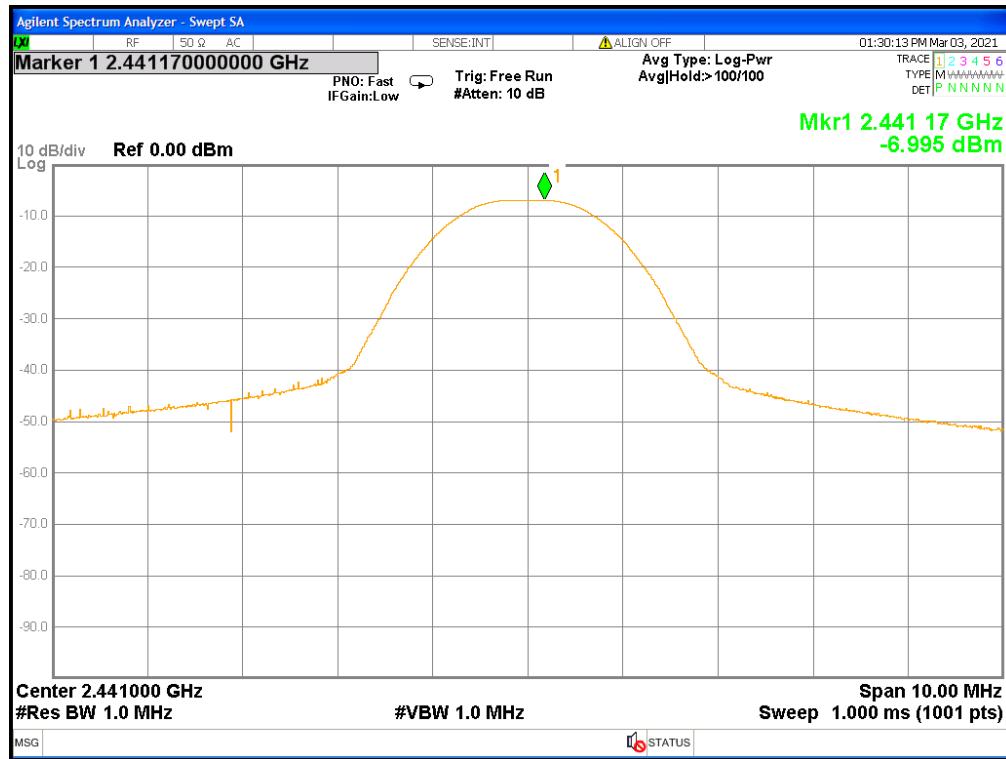


π/4-DQPSK (2Mbps) Channel: 00

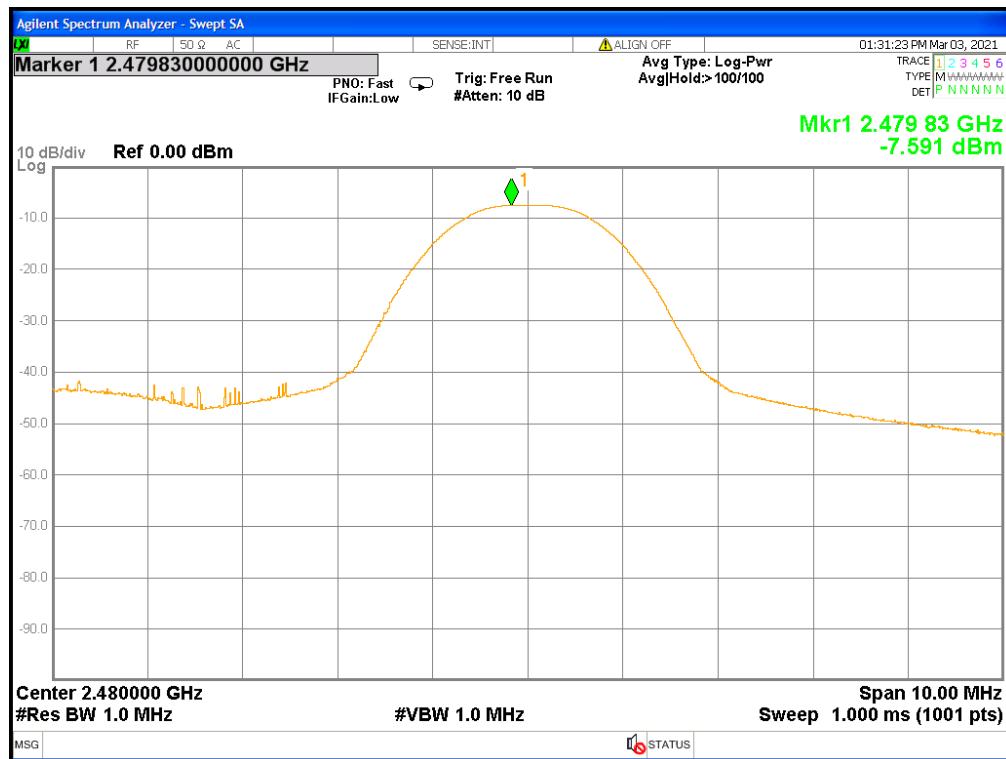




$\pi/4$ -DQPSK (2Mbps) Channel: 39

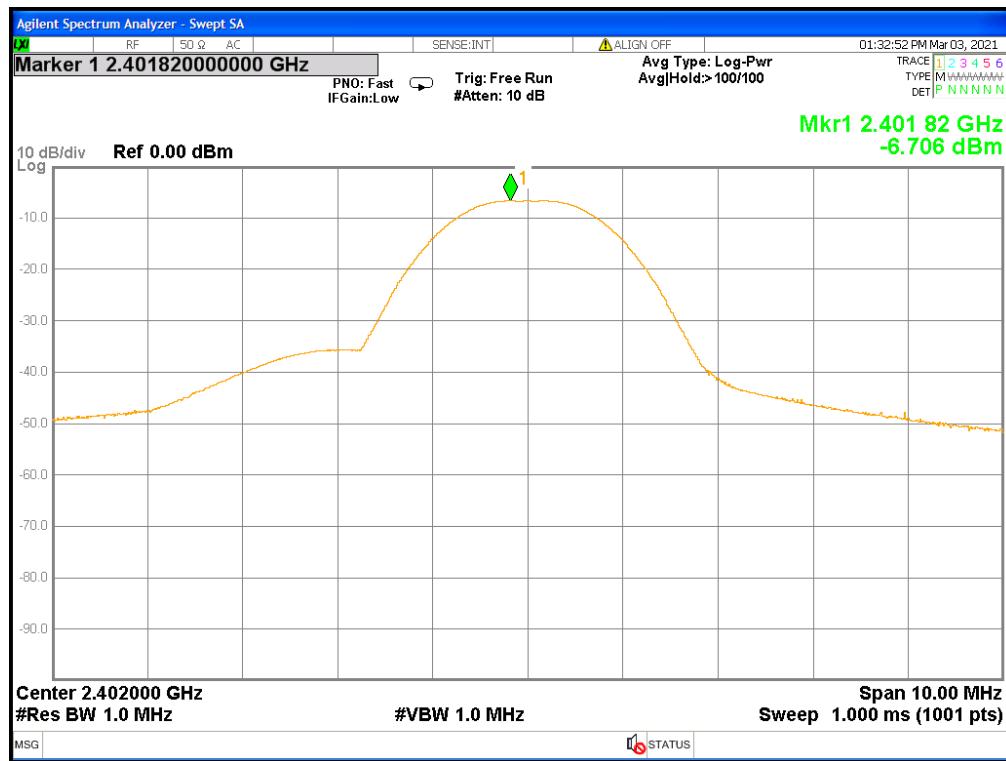


$\pi/4$ -DQPSK (2Mbps) Channel: 78

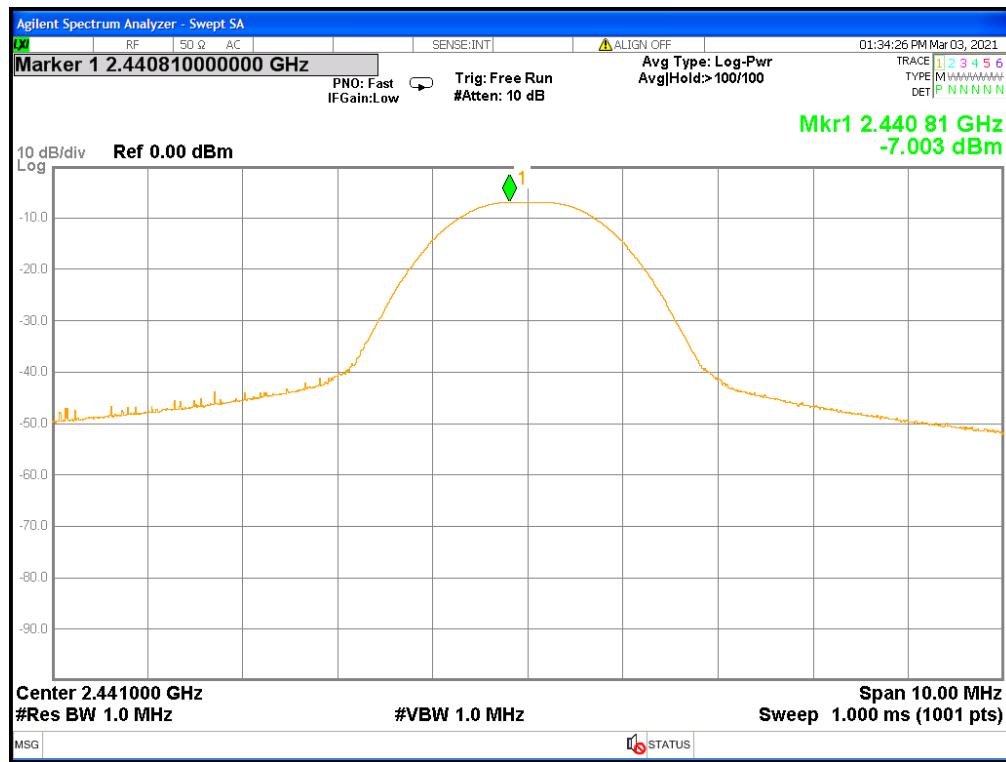




8DPSK (3Mbps) Channel: 00

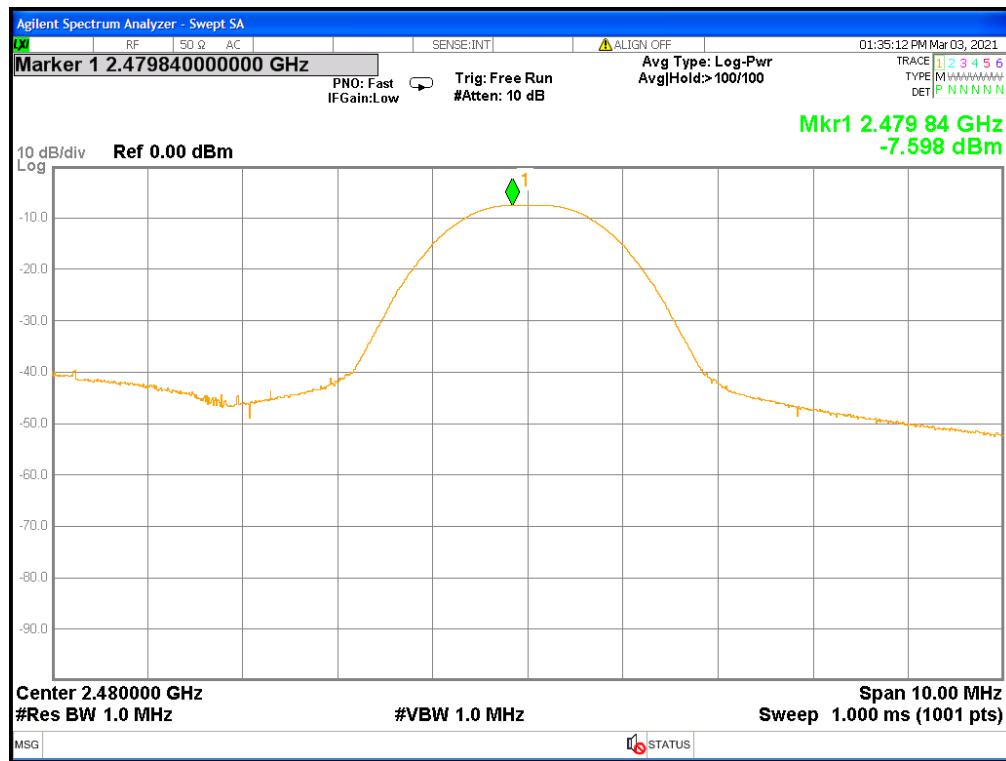


8DPSK (3Mbps) Channel: 39





8DPSK (3Mbps) Channel: 78





13. Band Edges Measurement

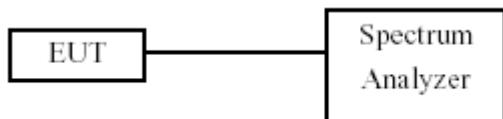
13.1 Test Limit

Below – 20 dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

13.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 kHz.
- c. Set VBW of spectrum analyzer to 300 kHz.
- d. The band edges was measured and recorded.

13.3 Test Setup Layout



13.4 Test Result and Data

Test Date: 2021.03.03

Temperature: 24°C

Atmospheric pressure: 1012 hPa

Humidity: 55%

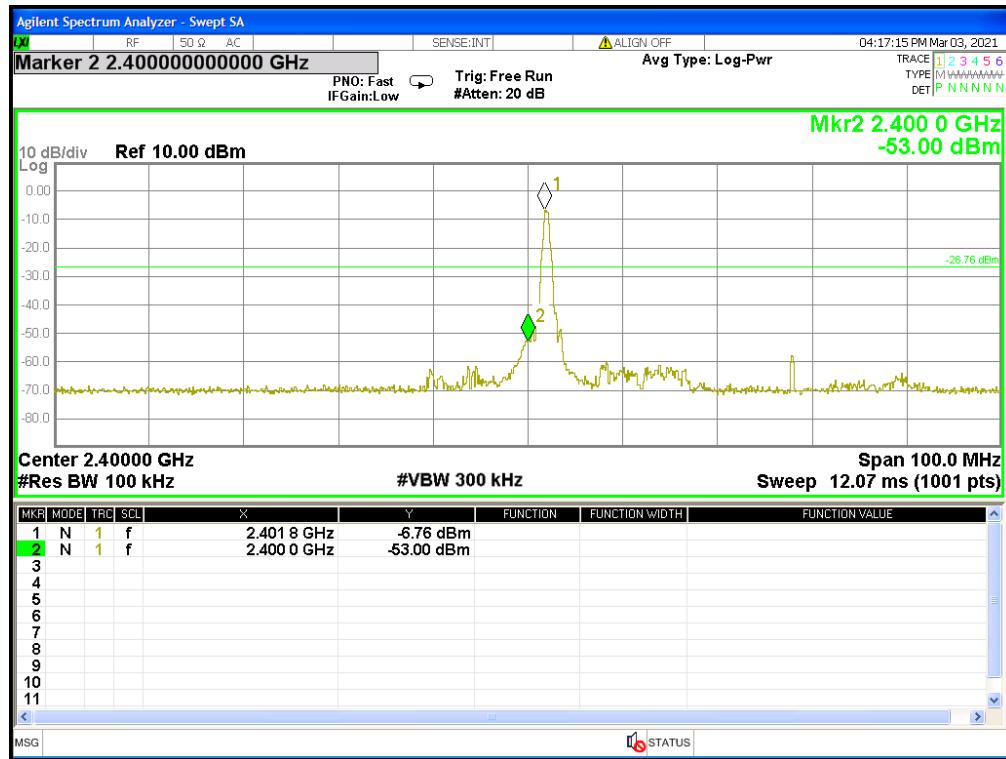
Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)	maximum value (dBm)
GFSK (1Mbps)	00	2402	2400.0	-53.00
	78	2480	2484.5	-68.52
$\pi/4$ -DQPSK (2Mbps)	00	2402	2399.8	-53.09
	78	2480	2487.0	-64.11
8DPSK (3Mbps)	00	2402	2400.0	-52.69
	78	2480	2486.6	-67.55



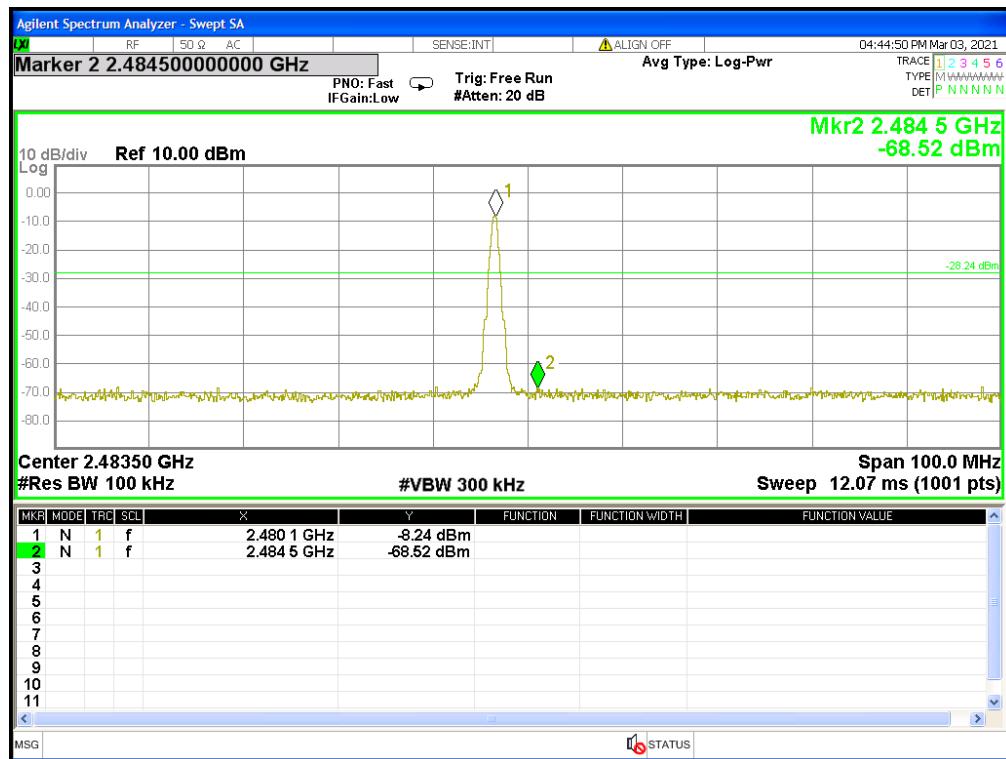
WH Technology Corp.

Date of Issue: Mar. 11, 2021
Report No.: WH-FCC-R21012903

GFSK (1Mbps) Channel: 00

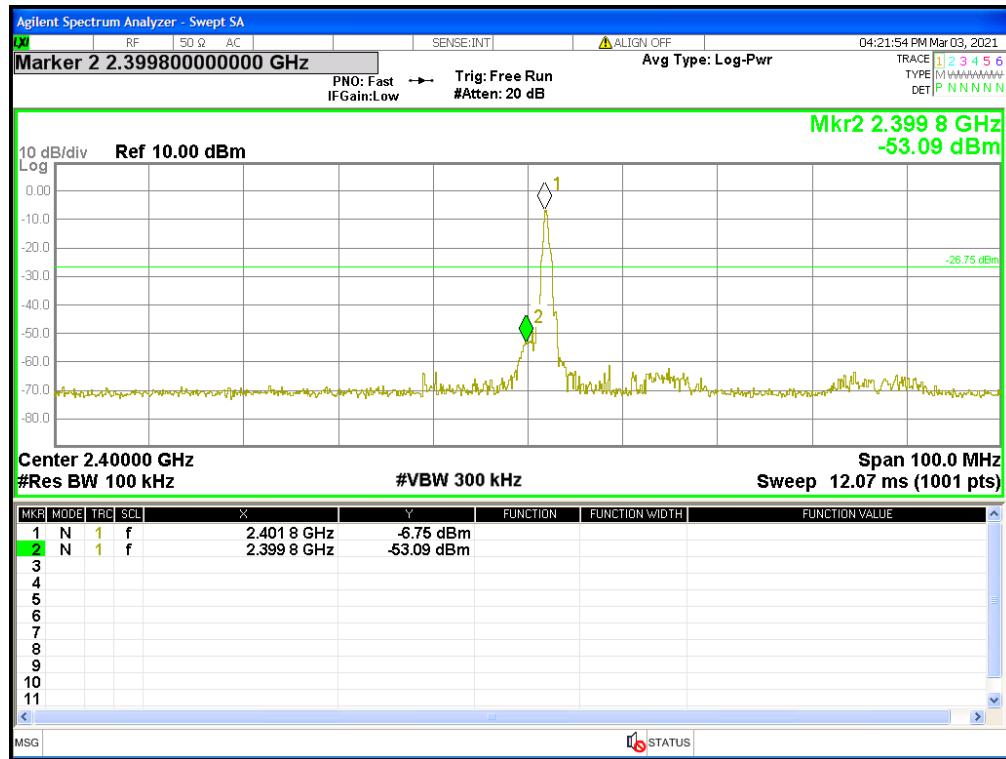


GFSK (1Mbps) Channel: 78

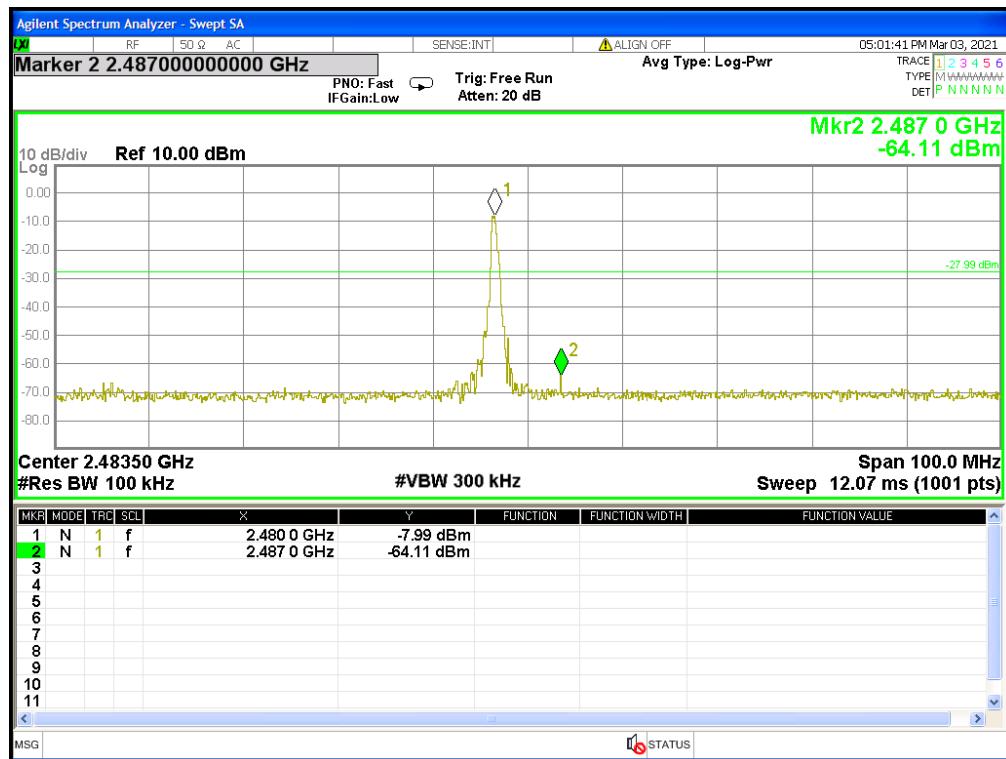




$\pi/4$ -DQPSK (2Mbps) Channel: 00

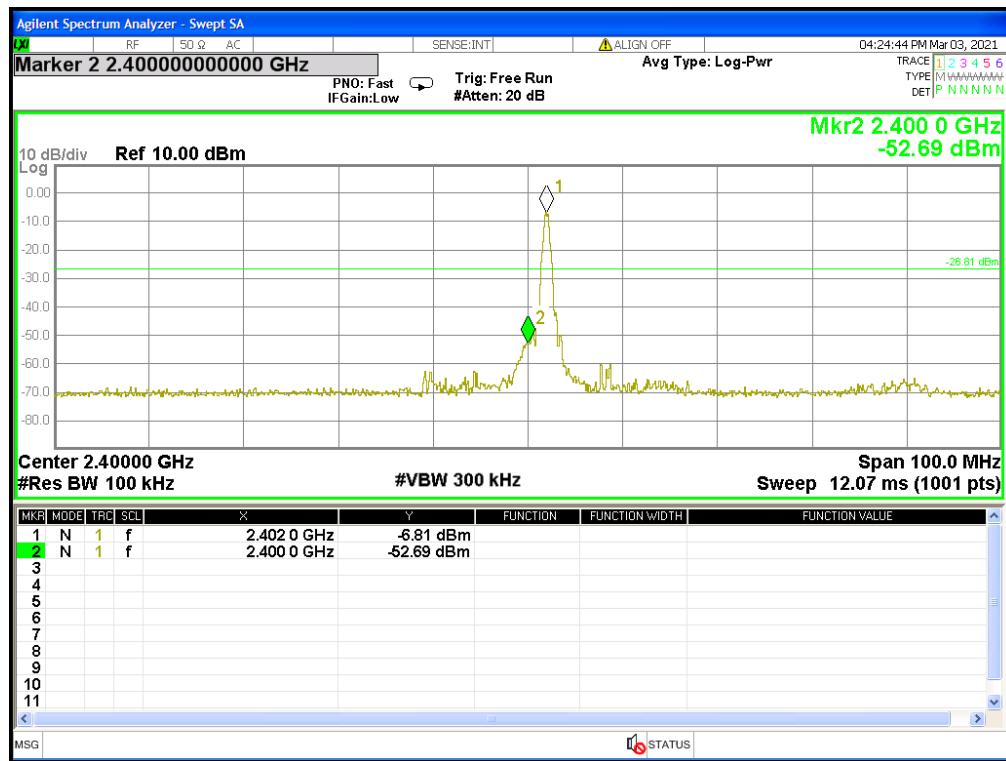


$\pi/4$ -DQPSK (2Mbps) Channel: 78

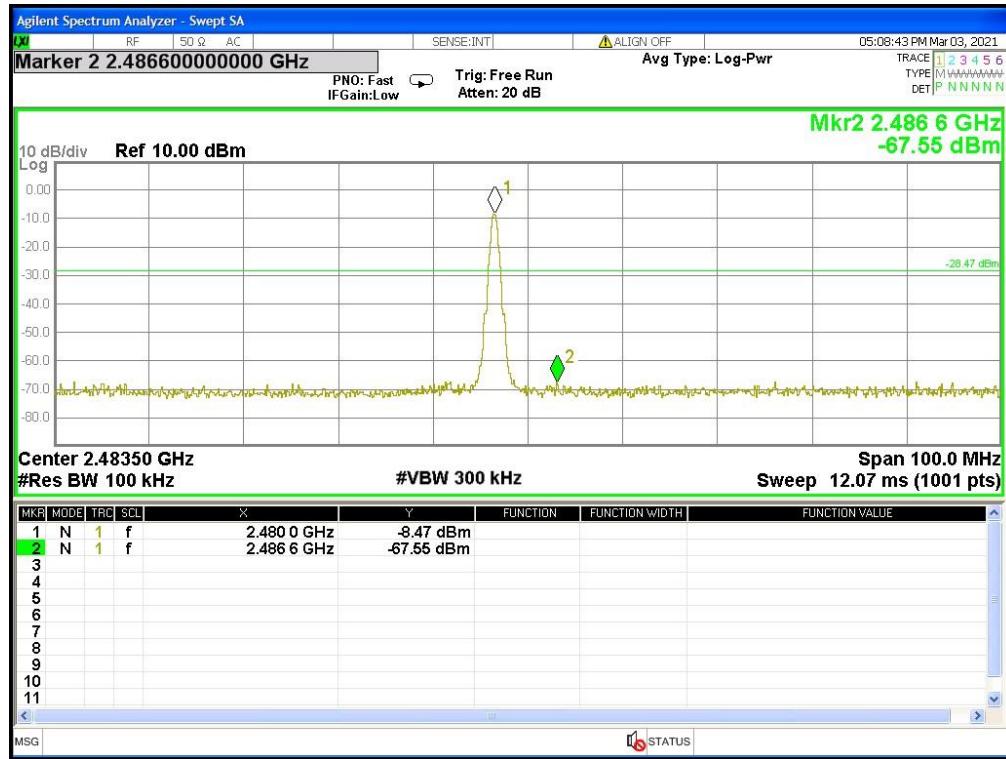




8DPSK (3Mbps) Channel: 00



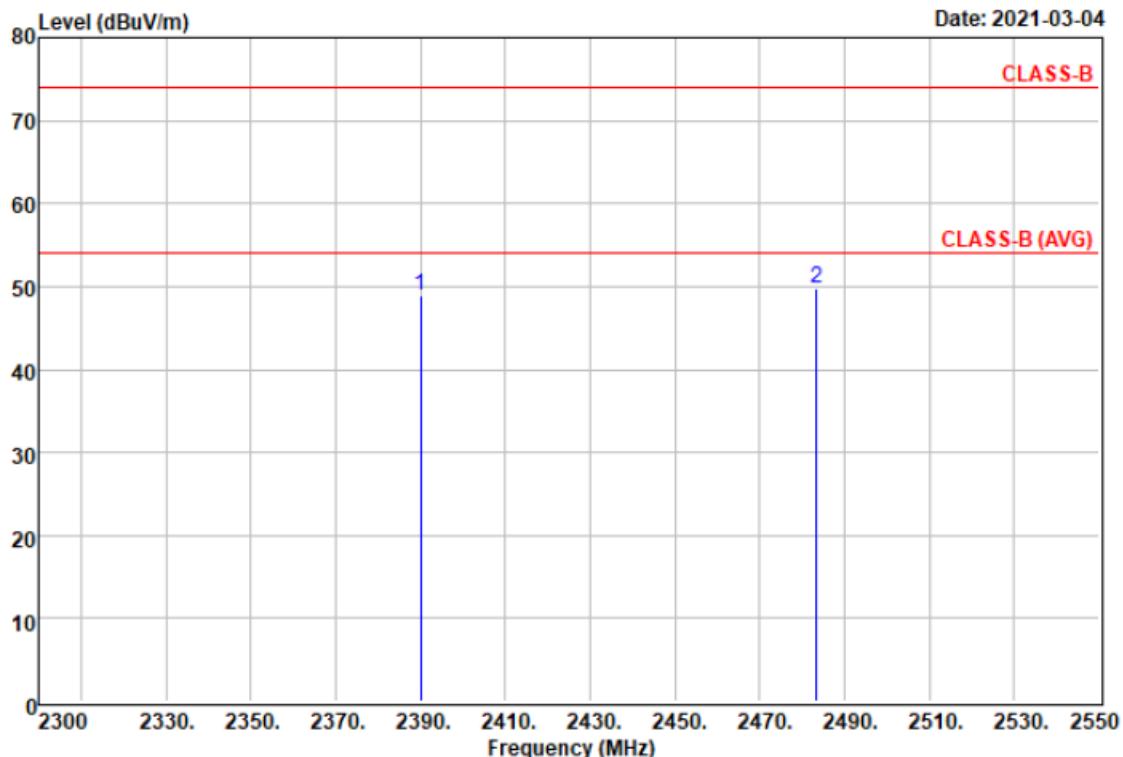
8DPSK (3Mbps) Channel: 78





13.5 Restrict Band Emission Measurement Data

Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: GFSK



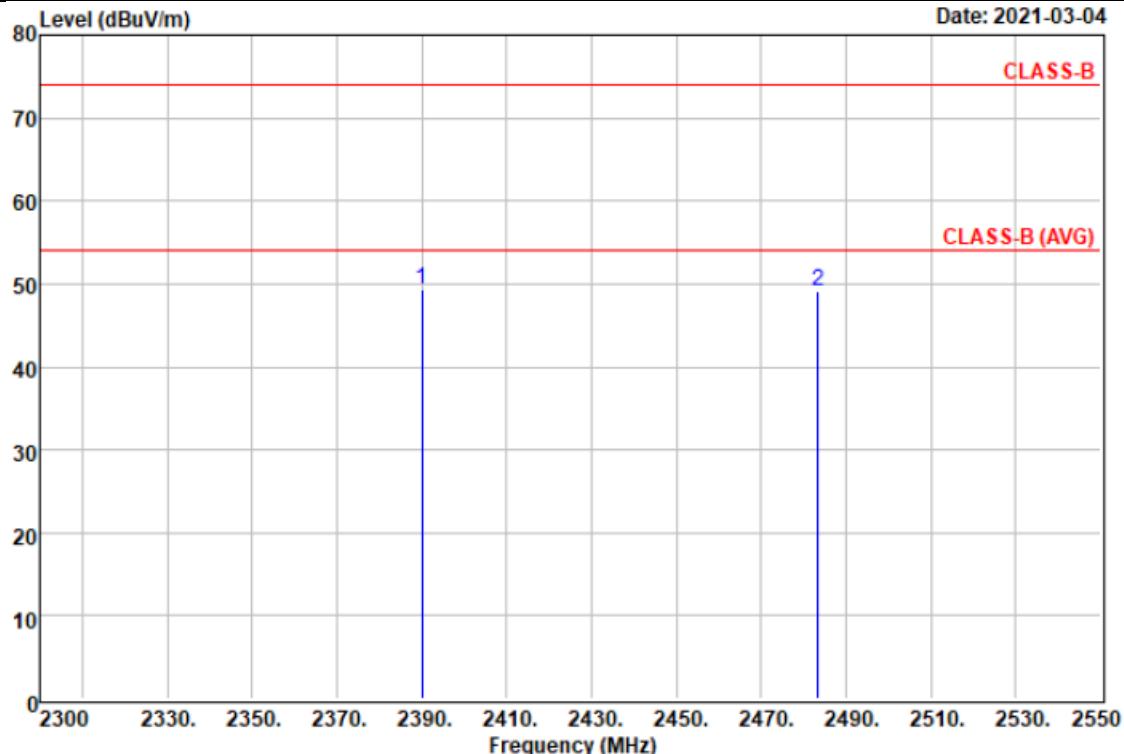
Freq	Read		Limit	Over	Over	Remark	
	Level	Factor					
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2390.000	59.11	-10.19	48.92	74.00	-25.08	Peak
2 @	2483.500	59.50	-9.69	49.81	74.00	-24.19	Peak

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



Power	: DC 5V	Pol/Phase	: VERTICAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: GFSK



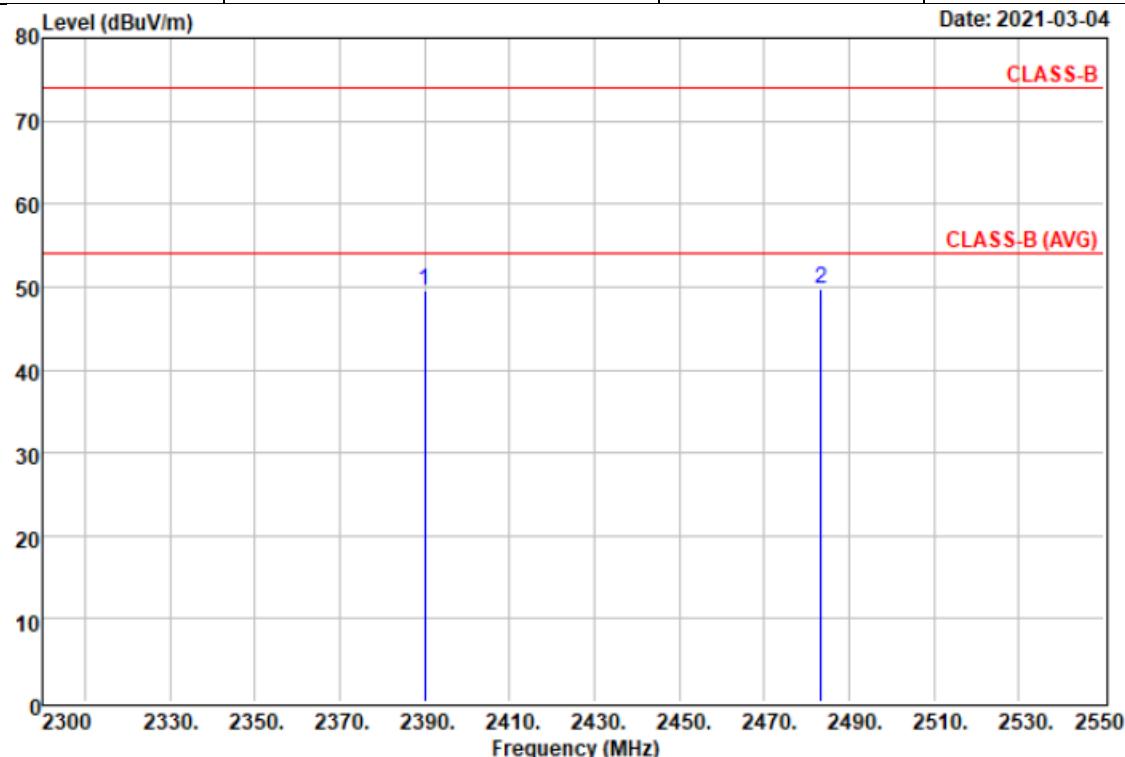
Freq	Read		Limit	Over	Over	Remark	
	Level	Factor					
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	@ 2390.000	59.47	-10.19	49.28	74.00	-24.72	Peak
2	2483.500	58.75	-9.69	49.06	74.00	-24.94	Peak

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: π/4-DQPSK



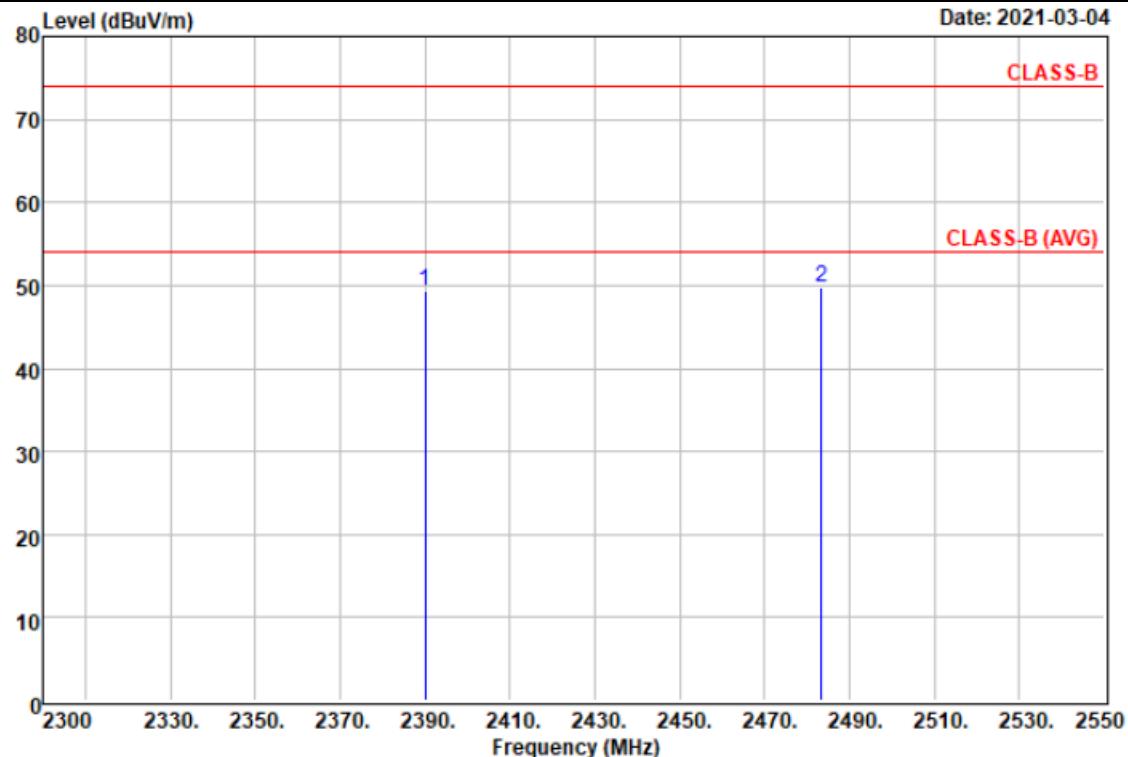
Freq	Read		Limit	Over	Remark
	Level	Factor			
	MHz	dBuV	dB/m	dBuV/m	dB
1	2390.000	59.79	-10.19	49.60	74.00 -24.40 Peak
2	@ 2483.500	59.40	-9.69	49.71	74.00 -24.29 Peak

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



Power	: DC 5V	Pol/Phase	: VERTICAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: $\pi/4$ -DQPSK



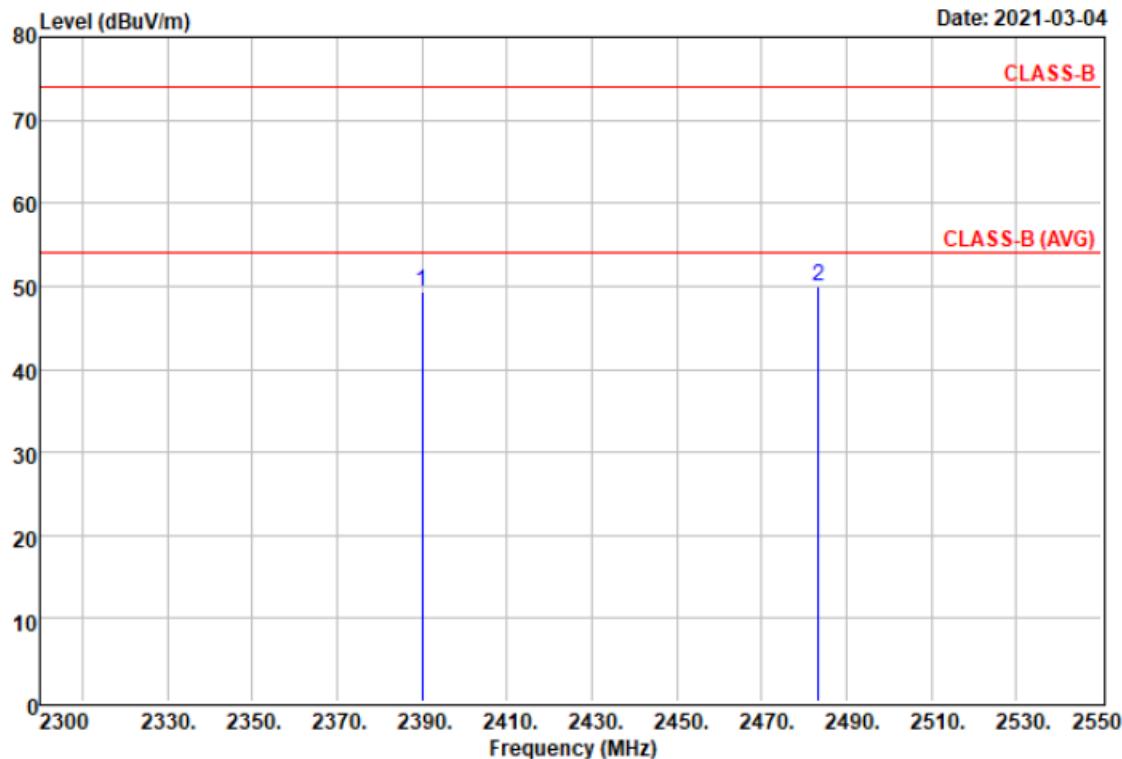
Freq	Read		Limit	Over	Over	Over
	Level	Factor				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	2390.000	59.52	-10.19	49.33	74.00	-24.67
2 @	2483.500	59.54	-9.69	49.85	74.00	-24.15

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



Power	: DC 5V	Pol/Phase	: HORIZONTAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: 8DPSK



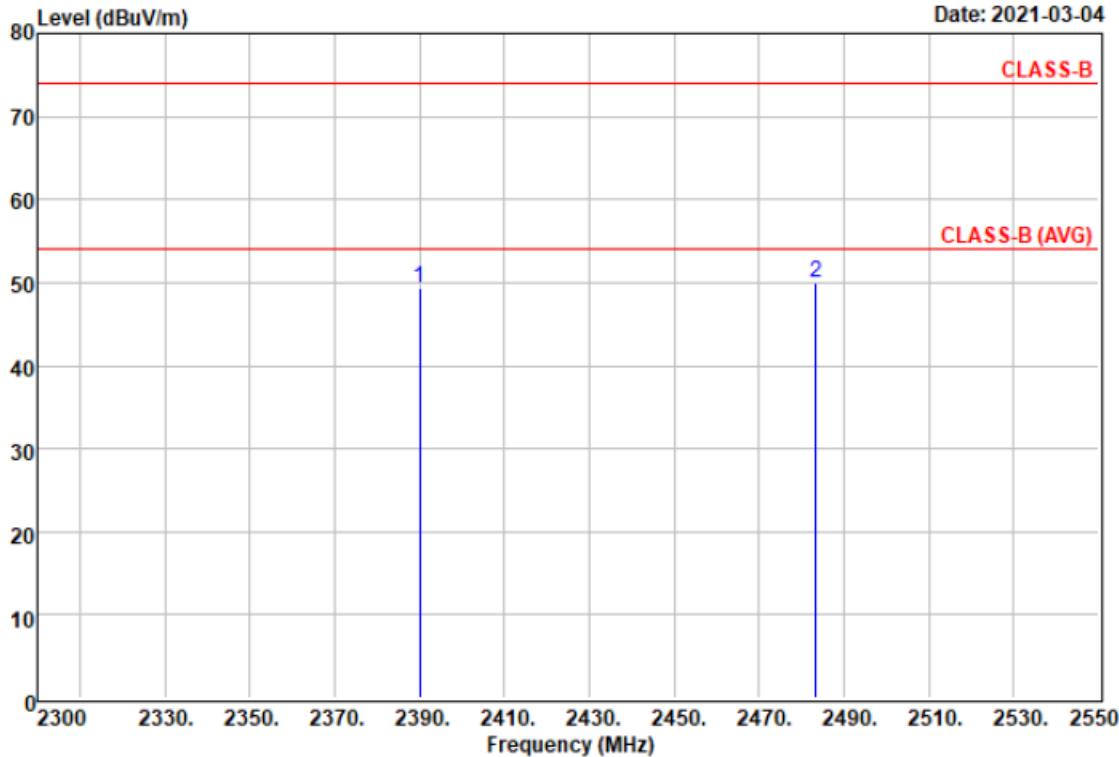
	Read		Limit	Over		
Freq	Level	Factor	Level	Line	Limit	
					Remark	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	
1	2390.000	59.49	-10.19	49.30	74.00	-24.70 Peak
2 @	2483.500	59.71	-9.69	50.02	74.00	-23.98 Peak

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



Power	: DC 5V	Pol/Phase	: VERTICAL
Temperature	: 18 °C	Humidity	: 66 %
Test Mode	: CH LO & HI – Restricted Bands	Memo	: 8DPSK



Freq	Read			Limit	Over	Over
	Level	Factor	Level			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 2390.000	59.56	-10.19	49.37	74.00	-24.63	Peak
2 @ 2483.500	59.63	-9.69	49.94	74.00	-24.06	Peak

Note:

1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 10 Hz for Average detection at frequency above 1 GHz.



14. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

14.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.