



FCC TEST REPORT

FCC ID: 2AVRV100129878V2

Report Number.....: **ZKT-260611L0826E**

Date of Test Jun. 08, 2026 to Jun. 12, 2026

Date of issue: Jun. 12, 2026

Total number of pages..... 70

Test Result: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue,
Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: DP AUDIO VIDEO LLC

Address: 1001 GAYLEY AVENUE P.O. BOX 24857,LOS ANGELES,CA,USA
90024.

Manufacturer's name: GANZHOU CITY MOSWS ELECTRONICS LTD

Address: South of Jinlingxi Road, East of Qifengshan Road, Ganzhou
development area Ganzhou city, Jiangxi province, China.

Test specification:

Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor 1-2023

Test procedure: /

Non-standard test method: N/A

Test Report Form No.....: TRF-EL-111_V0

Test Report Form(s) Originator.....: ZKT Testing

Master TRF: Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name: mini bluetooth waterproof pool speaker

Trademark: Bluescape

Model/Type reference: 100129878

Ratings: Input: 5V===
Battery: 3.7V===, 1200mAh, 4.44Wh



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature): Jim Liu

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature): Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260611L0826E	Rev.01	Initial issue of report	Jun. 12, 2026



2. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna Requirement	PASS	
15.207	AC Power Line Conducted Emission	PASS	
15.247 (b)(1)	Conducted Peak Output Power	PASS	
15.247 (a)(1)	20dB Occupied Bandwidth	PASS	
15.247 (a)(1)	Carrier Frequencies Separation	PASS	
15.247 (a)(1)(iii)	Hopping Channel Number	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205/15.209	Radiated Emission and Restricted Band	PASS	
15.247(d)	Conducted Unwanted emissions and Band Edge	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃
13	Dwell time	U=0.02S



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	mini bluetooth waterproof pool speaker
Model No.:	100129878
Serial No.:	ET2289
Model Different.:	All the models are electrical identical (i.e., circuit design, PCB Layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.), same mechanical structure and design, except model names and appearance color.
Sample(s) Status:	Engineer sample
Channel Numbers:	79
Channel Spacing:	1MHz
Operation Frequency:	2402MHz~2480MHz
Modulation Technology:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type:	PCB antenna
Antenna Gain:	-0.68dBi
Ratings:	Input: 5V--- Battery: 3.7V---, 1200mAh, 4.44Wh



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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:

Test channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

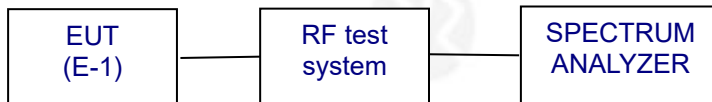


3.2 TEST SETUP CONFIGURATION

Conducted Emission& Radiated Emission



Conducted Spurious



3.3 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-2	AC/DC Adapter	N/A	X569	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) EUT is tested with new battery.

3.4 TEST MODE

Transmitting mode	Keep the EUT in continuously transmitting mode
Charging Mode:	Keep the EUT in Charging mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data. For battery operated equipment, the equipment tests shall be performed using a new battery.	

Test Software	FCC Assist 1.1.3
Power level setup	Default



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May. 22, 2025	May. 21, 2026
						May. 25, 2026	May. 24, 2027
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
12	Test Cable	N/A	R-02	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
13	Test Cable	N/A	R-03	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
4	Test Cable	N/A	RF-02	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
5	Test Cable	N/A	RF-03	N/A	N/A	May. 25, 2025	May. 24, 2026
						May. 25, 2026	May. 24, 2027
6	ESG Signal Generator	Agilent	E4421B	GB40051203	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	MY47420215	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-R FCB	10371	N/A	Sep. 19, 2025	Sep. 18, 2026
12	MWRF Power Sensor	MW	MW100-P SB	10371	N/A	Sep. 19, 2025	Sep. 18, 2026
13	Power Meter	KEYSIGHT	N1912AP	926431	A.05.00	Sep. 19, 2025	Sep. 18, 2026
14	D.C. Power Supply	LongWei	TPR-6405 D	GQ7516	N/A	Sep. 19, 2025	Sep. 18, 2026
15	Attenuators	XINQY	XQY-SMAJ KS-12-2W	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
16	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSIONS

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor 1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

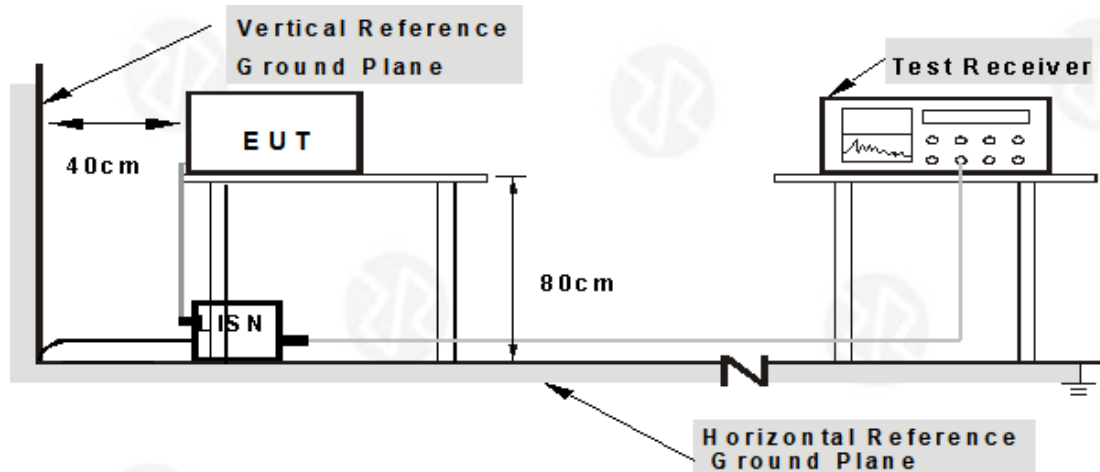
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

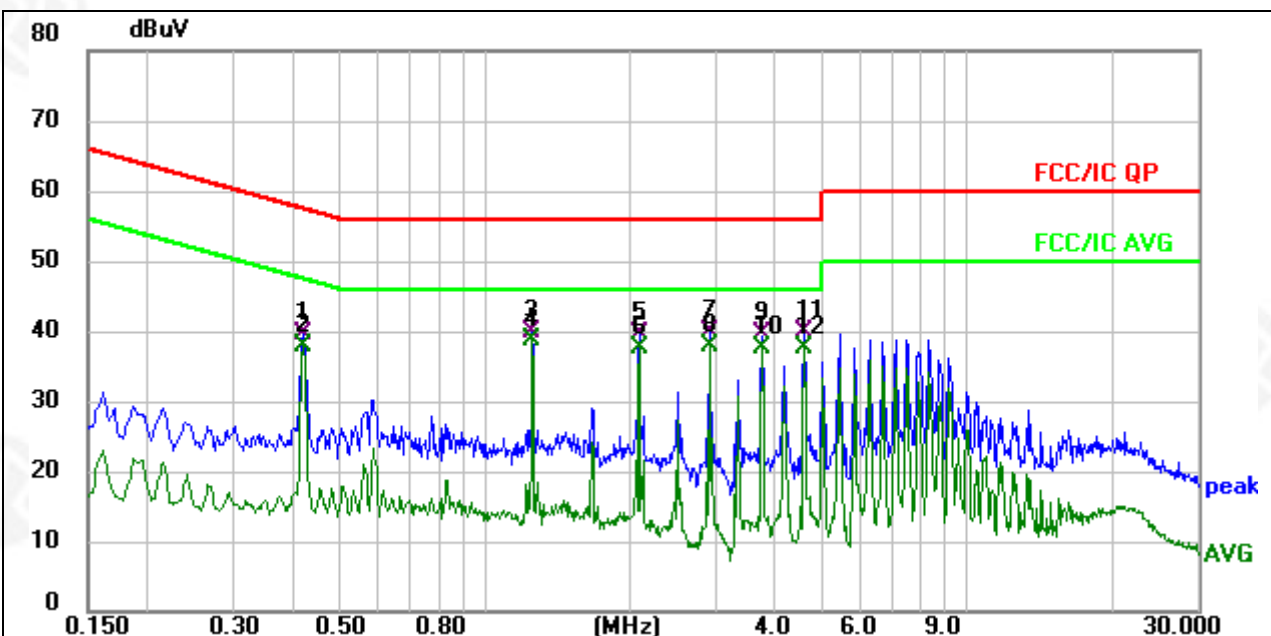
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Charging+TX 8-DPSK - 2480MHz



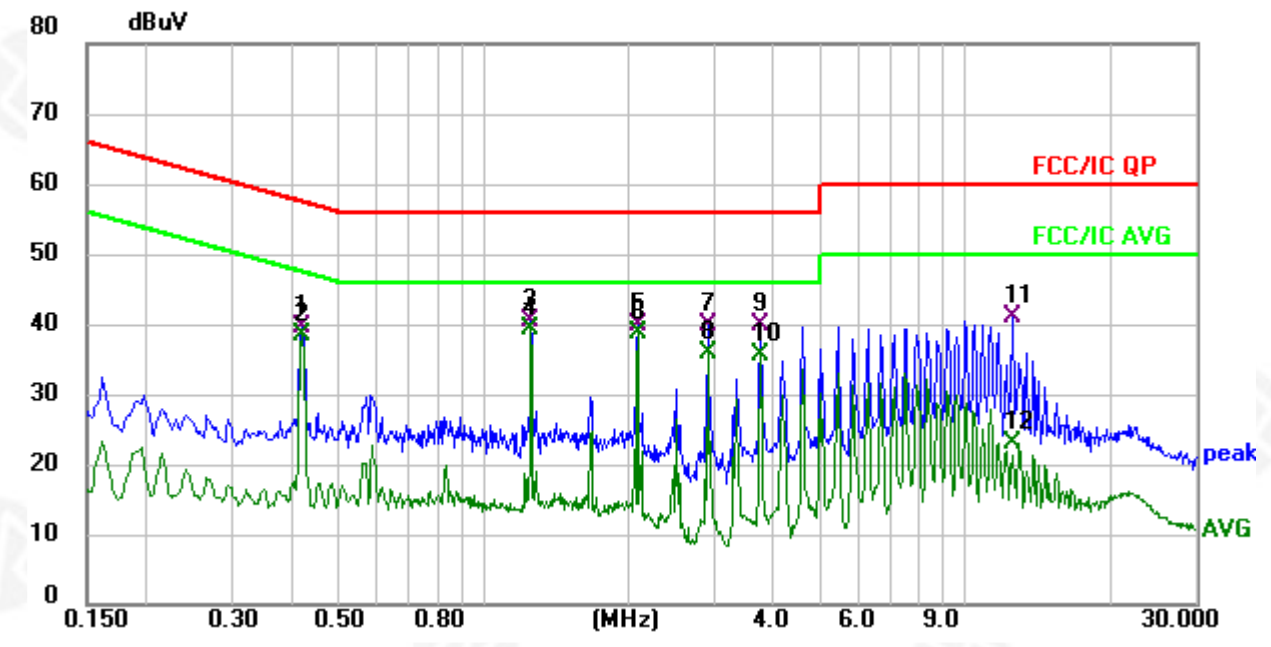
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4180	29.87	9.68	39.55	57.49	-17.94	QP	P
2	0.4180	28.30	9.68	37.98	47.49	-9.51	AVG	P
3	1.2540	30.08	9.71	39.79	56.00	-16.21	QP	P
4 *	1.2540	28.96	9.71	38.67	46.00	-7.33	AVG	P
5	2.0900	29.97	9.73	39.70	56.00	-16.30	QP	P
6	2.0900	27.80	9.73	37.53	46.00	-8.47	AVG	P
7	2.9260	30.19	9.75	39.94	56.00	-16.06	QP	P
8	2.9260	28.05	9.75	37.80	46.00	-8.20	AVG	P
9	3.7620	29.67	9.76	39.43	56.00	-16.57	QP	P
10	3.7620	27.86	9.76	37.62	46.00	-8.38	AVG	P
11	4.5980	30.16	9.78	39.94	56.00	-16.06	QP	P
12	4.5980	27.86	9.78	37.64	46.00	-8.36	AVG	P

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case TX 8-DPSK - 2402MHz



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Charging+TX 8-DPSK - 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4180	29.89	9.68	39.57	57.49	-17.92	QP	P
2	0.4180	28.67	9.68	38.35	47.49	-9.14	AVG	P
3	1.2540	30.68	9.71	40.39	56.00	-15.61	QP	P
4 *	1.2540	29.52	9.71	39.23	46.00	-6.77	AVG	P
5	2.0900	30.26	9.73	39.99	56.00	-16.01	QP	P
6	2.0900	28.86	9.73	38.59	46.00	-7.41	AVG	P
7	2.9260	30.14	9.75	39.89	56.00	-16.11	QP	P
8	2.9260	26.13	9.75	35.88	46.00	-10.12	AVG	P
9	3.7620	30.06	9.76	39.82	56.00	-16.18	QP	P
10	3.7620	25.79	9.76	35.55	46.00	-10.45	AVG	P
11	12.5020	31.00	9.91	40.91	60.00	-19.09	QP	P
12	12.5020	13.14	9.91	23.05	50.00	-26.95	AVG	P

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Measurement Level = Reading level + Correct Factor
- 4.The test data shows only the worst case TX 8-DPSK - 2480MHz



4.2 RADIATED EMISSIONS

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor 1-2023				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	MX5Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

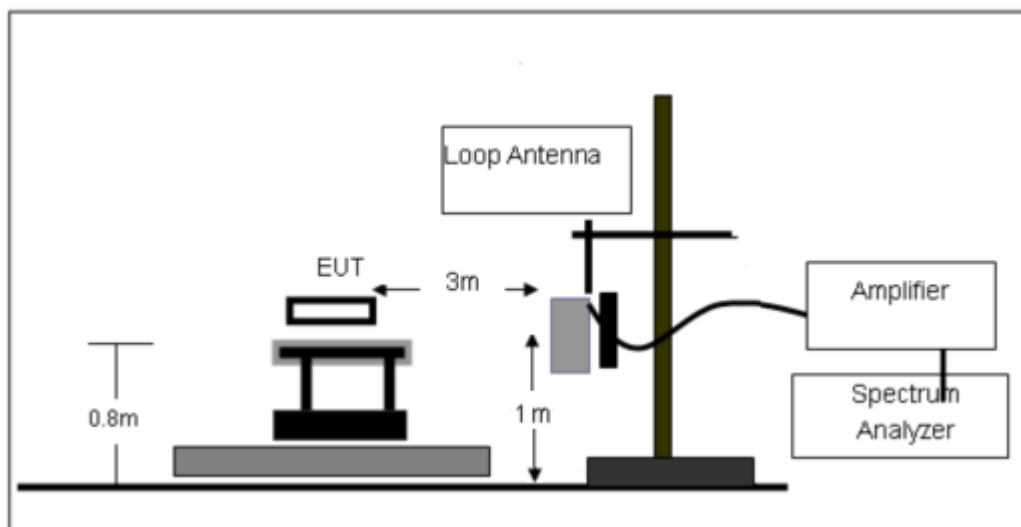
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

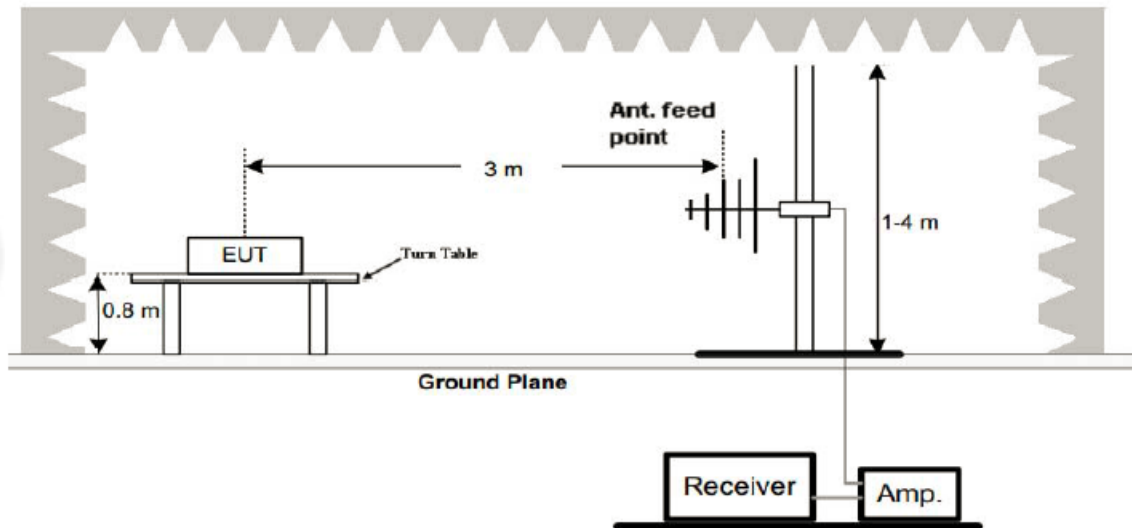
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

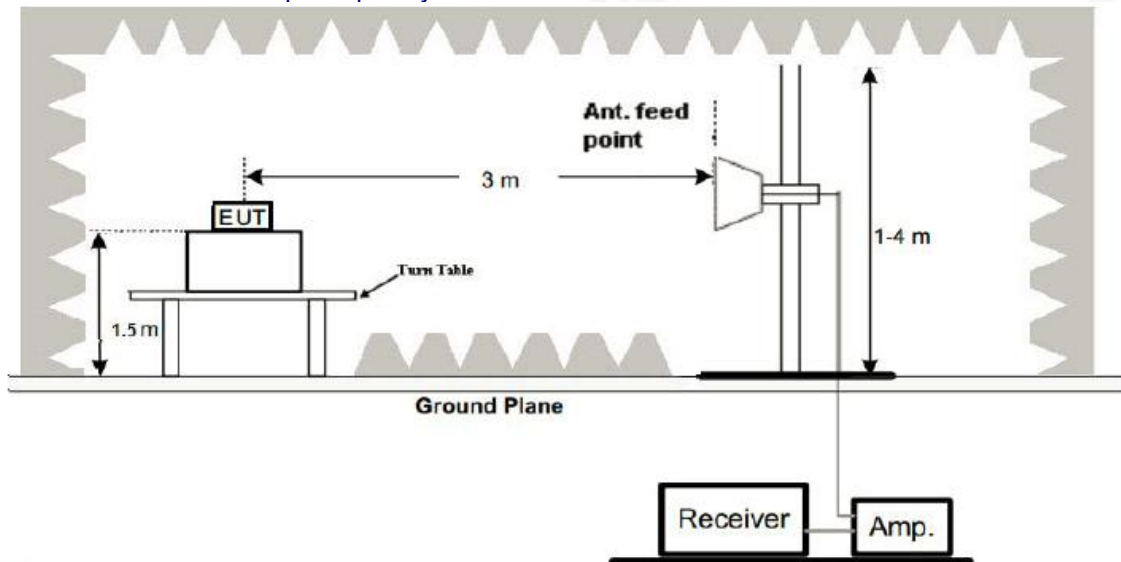




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

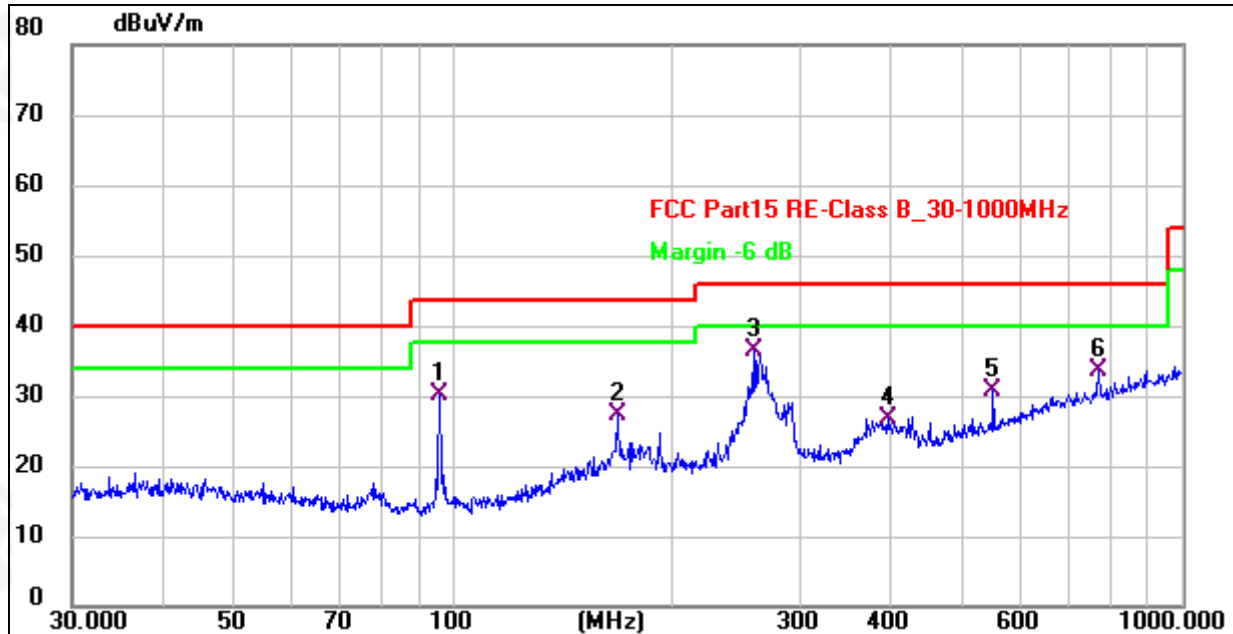
Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Charging+TX 8-DPSK - 2480MHz



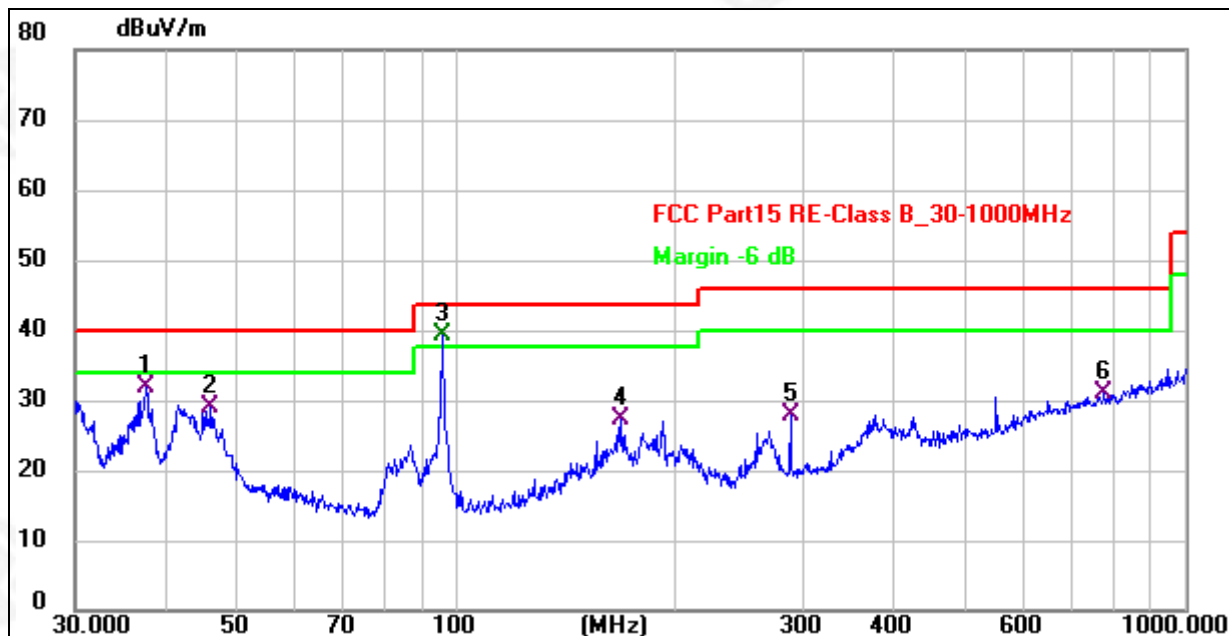
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	96.0985	43.40	-13.29	30.11	43.50	-13.39	QP
2	167.8242	37.71	-10.41	27.30	43.50	-16.20	QP
3 *	258.3264	45.46	-9.09	36.37	46.00	-9.63	QP
4	394.8545	33.41	-6.73	26.68	46.00	-19.32	QP
5	550.9480	33.64	-2.95	30.69	46.00	-15.31	QP
6	768.7481	32.92	0.78	33.70	46.00	-12.30	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor 6.Margin= Measurement Level-Limit.
6. The test data shows only the worst case TX 8-DPSK - 2480MHz.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Charging+TX 8-DPSK - 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.5479	42.89	-10.94	31.95	40.00	-8.05	QP
2	46.0164	40.27	-11.18	29.09	40.00	-10.91	QP
3 *	96.0986	52.48	-13.29	39.19	43.50	-4.31	QP
4	167.8243	37.83	-10.41	27.42	43.50	-16.08	QP
5	287.9904	36.09	-8.29	27.80	46.00	-18.20	QP
6	774.1584	30.26	0.81	31.07	46.00	-14.93	QP

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor 6.Margin= Measurement Level-Limit.
6. The test data shows only the worst case TX 8-DPSK - 2480MHz.



1GHz~25GHz

GFSK - 1-DH1

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	53.40	30.55	5.77	24.66	53.28	74.00	-20.72	PK
V	4804.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
V	7206.00	52.18	30.33	6.32	24.55	52.72	74.00	-21.28	PK
V	7206.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
V	9608.00	54.83	30.85	7.45	24.69	56.12	74.00	-17.88	PK
V	9608.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
V	12010.00	52.48	31.02	8.99	25.57	56.02	74.00	-17.98	PK
V	12010.00	43.22	31.02	8.99	25.57	46.76	54.00	-7.24	AV
H	4804.00	53.93	30.55	5.77	24.66	53.81	74.00	-20.19	PK
H	4804.00	43.98	30.55	5.77	24.66	43.86	54.00	-10.14	AV
H	7206.00	50.77	30.33	6.32	24.55	51.31	74.00	-22.69	PK
H	7206.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
H	9608.00	51.64	30.85	7.45	24.69	52.93	74.00	-21.07	PK
H	9608.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
H	12010.00	54.79	31.02	8.99	25.57	58.33	74.00	-15.67	PK
H	12010.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	53.89	30.55	5.77	24.66	53.77	74.00	-20.23	PK
V	4882.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
V	7323.00	53.44	30.33	6.32	24.55	53.98	74.00	-20.02	PK
V	7323.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
V	9764.00	54.55	30.85	7.45	24.69	55.84	74.00	-18.16	PK
V	9764.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
V	12205.00	51.26	31.02	8.99	25.57	54.80	74.00	-19.20	PK
V	12205.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV
H	4882.00	53.08	30.55	5.77	24.66	52.96	74.00	-21.04	PK
H	4882.00	43.37	30.55	5.77	24.66	43.25	54.00	-10.75	AV
H	7323.00	53.21	30.33	6.32	24.55	53.75	74.00	-20.25	PK
H	7323.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
H	9764.00	51.26	30.85	7.45	24.69	52.55	74.00	-21.45	PK
H	9764.00	43.36	30.85	7.45	24.69	44.65	54.00	-9.35	AV
H	12205.00	50.07	31.02	8.99	25.57	53.61	74.00	-20.39	PK
H	12205.00	43.26	31.02	8.99	25.57	46.80	54.00	-7.20	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	54.42	30.55	5.77	24.66	54.30	74.00	-19.70	PK
V	4960.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
V	7440.00	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	PK
V	7440.00	43.71	30.33	6.32	24.55	44.25	54.00	-9.75	AV
V	9920.00	54.78	30.85	7.45	24.69	56.07	74.00	-17.93	PK
V	9920.00	43.30	30.85	7.45	24.69	44.59	54.00	-9.41	AV
V	12400.00	50.26	31.02	8.99	25.57	53.80	74.00	-20.20	PK
V	12400.00	43.42	31.02	8.99	25.57	46.96	54.00	-7.04	AV
H	4960.00	51.62	30.55	5.77	24.66	51.50	74.00	-22.50	PK
H	4960.00	43.42	30.55	5.77	24.66	43.30	54.00	-10.70	AV
H	7440.00	50.07	30.33	6.32	24.55	50.61	74.00	-23.39	PK
H	7440.00	43.56	30.33	6.32	24.55	44.10	54.00	-9.90	AV
H	9920.00	50.69	30.85	7.45	24.69	51.98	74.00	-22.02	PK
H	9920.00	43.03	30.85	7.45	24.69	44.32	54.00	-9.68	AV
H	12400.00	51.48	31.02	8.99	25.57	55.02	74.00	-18.98	PK
H	12400.00	43.13	31.02	8.99	25.57	46.67	54.00	-7.33	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



$\pi/4$ -DQPSK - 2-DH1

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804.00	52.41	30.55	5.77	24.66	52.29	74.00	-21.71	PK
V	4804.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
V	7206.00	54.87	30.33	6.32	24.55	55.41	74.00	-18.59	PK
V	7206.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
V	9608.00	50.40	30.85	7.45	24.69	51.69	74.00	-22.31	PK
V	9608.00	43.70	30.85	7.45	24.69	44.99	54.00	-9.01	AV
V	12010.00	52.18	31.02	8.99	25.57	55.72	74.00	-18.28	PK
V	12010.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	AV
H	4804.00	53.76	30.55	5.77	24.66	53.64	74.00	-20.36	PK
H	4804.00	43.55	30.55	5.77	24.66	43.43	54.00	-10.57	AV
H	7206.00	50.91	30.33	6.32	24.55	51.45	74.00	-22.55	PK
H	7206.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
H	9608.00	54.32	30.85	7.45	24.69	55.61	74.00	-18.39	PK
H	9608.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
H	12010.00	51.91	31.02	8.99	25.57	55.45	74.00	-18.55	PK
H	12010.00	43.28	31.02	8.99	25.57	46.82	54.00	-7.18	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2441MHz									
V	4882.00	52.95	30.55	5.77	24.66	52.83	74.00	-21.17	PK
V	4882.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
V	7323.00	50.20	30.33	6.32	24.55	50.74	74.00	-23.26	PK
V	7323.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
V	9764.00	52.02	30.85	7.45	24.69	53.31	74.00	-20.69	PK
V	9764.00	43.09	30.85	7.45	24.69	44.38	54.00	-9.62	AV
V	12205.00	51.08	31.02	8.99	25.57	54.62	74.00	-19.38	PK
V	12205.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV
H	4882.00	51.80	30.55	5.77	24.66	51.68	74.00	-22.32	PK
H	4882.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	7323.00	54.40	30.33	6.32	24.55	54.94	74.00	-19.06	PK
H	7323.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
H	9764.00	54.67	30.85	7.45	24.69	55.96	74.00	-18.04	PK
H	9764.00	43.72	30.85	7.45	24.69	45.01	54.00	-8.99	AV
H	12205.00	52.89	31.02	8.99	25.57	56.43	74.00	-17.57	PK
H	12205.00	43.97	31.02	8.99	25.57	47.51	54.00	-6.49	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	50.13	30.55	5.77	24.66	50.01	74.00	-23.99	PK
V	4960.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7440.00	52.67	30.33	6.32	24.55	53.21	74.00	-20.79	PK
V	7440.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
V	9920.00	52.39	30.85	7.45	24.69	53.68	74.00	-20.32	PK
V	9920.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
V	12400.00	54.62	31.02	8.99	25.57	58.16	74.00	-15.84	PK
V	12400.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV
H	4960.00	52.60	30.55	5.77	24.66	52.48	74.00	-21.52	PK
H	4960.00	43.91	30.55	5.77	24.66	43.79	54.00	-10.21	AV
H	7440.00	51.11	30.33	6.32	24.55	51.65	74.00	-22.35	PK
H	7440.00	43.65	30.33	6.32	24.55	44.19	54.00	-9.81	AV
H	9920.00	53.26	30.85	7.45	24.69	54.55	74.00	-19.45	PK
H	9920.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
H	12400.00	52.56	31.02	8.99	25.57	56.10	74.00	-17.90	PK
H	12400.00	43.64	31.02	8.99	25.57	47.18	54.00	-6.82	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



8-DPSK - 3-DH1

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804.00	53.49	30.55	5.77	24.66	53.37	74.00	-20.63	PK
V	4804.00	43.51	30.55	5.77	24.66	43.39	54.00	-10.61	AV
V	7206.00	50.51	30.33	6.32	24.55	51.05	74.00	-22.95	PK
V	7206.00	43.49	30.33	6.32	24.55	44.03	54.00	-9.97	AV
V	9608.00	51.71	30.85	7.45	24.69	53.00	74.00	-21.00	PK
V	9608.00	43.03	30.85	7.45	24.69	44.32	54.00	-9.68	AV
V	12010.00	51.70	31.02	8.99	25.57	55.24	74.00	-18.76	PK
V	12010.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV
H	4804.00	51.43	30.55	5.77	24.66	51.31	74.00	-22.69	PK
H	4804.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
H	7206.00	54.44	30.33	6.32	24.55	54.98	74.00	-19.02	PK
H	7206.00	43.23	30.33	6.32	24.55	43.77	54.00	-10.23	AV
H	9608.00	50.02	30.85	7.45	24.69	51.31	74.00	-22.69	PK
H	9608.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12010.00	50.38	31.02	8.99	25.57	53.92	74.00	-20.08	PK
H	12010.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2441MHz									
V	4882.00	50.10	30.55	5.77	24.66	49.98	74.00	-24.02	PK
V	4882.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
V	7323.00	54.07	30.33	6.32	24.55	54.61	74.00	-19.39	PK
V	7323.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
V	9764.00	52.66	30.85	7.45	24.69	53.95	74.00	-20.05	PK
V	9764.00	43.87	30.85	7.45	24.69	45.16	54.00	-8.84	AV
V	12205.00	53.80	31.02	8.99	25.57	57.34	74.00	-16.66	PK
V	12205.00	43.68	31.02	8.99	25.57	47.22	54.00	-6.78	AV
H	4882.00	51.53	30.55	5.77	24.66	51.41	74.00	-22.59	PK
H	4882.00	43.16	30.55	5.77	24.66	43.04	54.00	-10.96	AV
H	7323.00	51.93	30.33	6.32	24.55	52.47	74.00	-21.53	PK
H	7323.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
H	9764.00	52.31	30.85	7.45	24.69	53.60	74.00	-20.40	PK
H	9764.00	43.20	30.85	7.45	24.69	44.49	54.00	-9.51	AV
H	12205.00	54.31	31.02	8.99	25.57	57.85	74.00	-16.15	PK
H	12205.00	43.60	31.02	8.99	25.57	47.14	54.00	-6.86	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	52.68	30.55	5.77	24.66	52.56	74.00	-21.44	PK
V	4960.00	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	7440.00	50.49	30.33	6.32	24.55	51.03	74.00	-22.97	PK
V	7440.00	43.75	30.33	6.32	24.55	44.29	54.00	-9.71	AV
V	9920.00	53.38	30.85	7.45	24.69	54.67	74.00	-19.33	PK
V	9920.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
V	12400.00	54.48	31.02	8.99	25.57	58.02	74.00	-15.98	PK
V	12400.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV
H	4960.00	53.57	30.55	5.77	24.66	53.45	74.00	-20.55	PK
H	4960.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
H	7440.00	51.63	30.33	6.32	24.55	52.17	74.00	-21.83	PK
H	7440.00	43.32	30.33	6.32	24.55	43.86	54.00	-10.14	AV
H	9920.00	53.21	30.85	7.45	24.69	54.50	74.00	-19.50	PK
H	9920.00	43.88	30.85	7.45	24.69	45.17	54.00	-8.83	AV
H	12400.00	53.97	31.02	8.99	25.57	57.51	74.00	-16.49	PK
H	12400.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+Cor 1-2023				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2310MHz
Stop Frequency	2500MHz
RB / VB (emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 3MHz for Average

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

1. The EUT was placed on the top of a rotating table 0.8meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota 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,the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

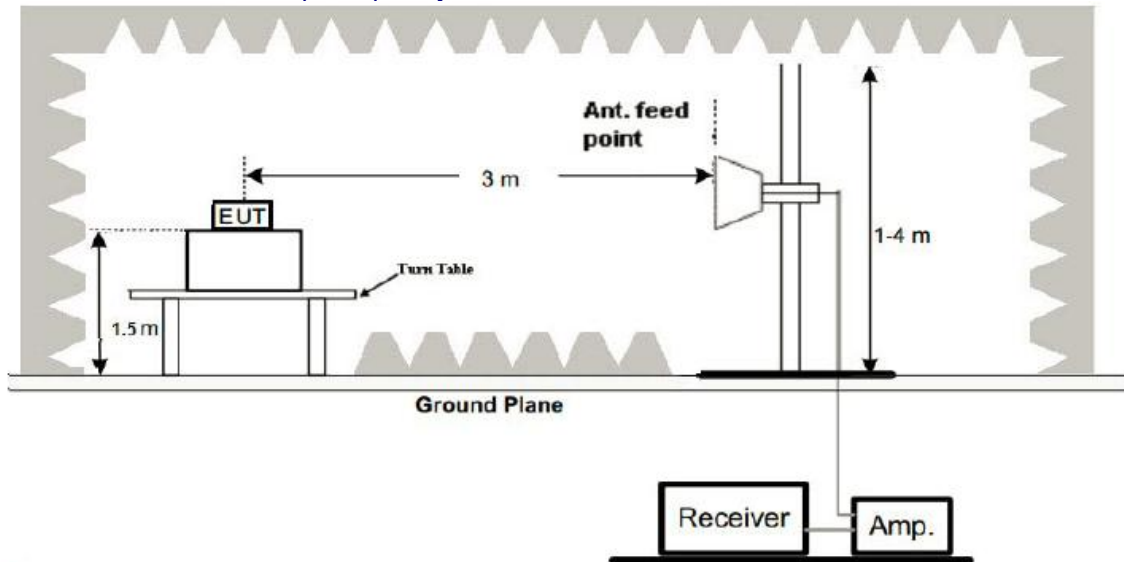


5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 5.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Detect or Type	Result
GFSK 1-DH1	Low Channel: 2402MHz										
	H	2390.00	54.29	30.22	4.85	23.98	52.90	74.00	-21.10	PK	PASS
	H	2390.00	44.95	30.22	4.85	23.98	43.56	54.00	-10.44	AV	PASS
	H	2400.00	53.31	30.22	4.85	23.98	51.92	74.00	-22.08	PK	PASS
	H	2400.00	44.30	30.22	4.85	23.98	42.91	54.00	-11.09	AV	PASS
	V	2390.00	54.96	30.22	4.85	23.98	53.57	74.00	-20.43	PK	PASS
	V	2390.00	44.07	30.22	4.85	23.98	42.68	54.00	-11.32	AV	PASS
	V	2400.00	53.21	30.22	4.85	23.98	51.82	74.00	-22.18	PK	PASS
	V	2400.00	44.35	30.22	4.85	23.98	42.96	54.00	-11.04	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	53.07	30.22	4.85	23.98	51.68	74.00	-22.32	PK	PASS
	H	2483.50	44.28	30.22	4.85	23.98	42.89	54.00	-11.11	AV	PASS
	H	2500.00	54.38	30.22	4.85	23.98	52.99	74.00	-21.01	PK	PASS
	H	2500.00	44.48	30.22	4.85	23.98	43.09	54.00	-10.91	AV	PASS
	V	2483.50	54.16	30.22	4.85	23.98	52.77	74.00	-21.23	PK	PASS
	V	2483.50	44.49	30.22	4.85	23.98	43.10	54.00	-10.90	AV	PASS
	V	2500.00	54.50	30.22	4.85	23.98	53.11	74.00	-20.89	PK	PASS
	V	2500.00	44.93	30.22	4.85	23.98	43.54	54.00	-10.46	AV	PASS
π/4-DQ PSK 2-DH1	Low Channel: 2402MHz										
	H	2390.00	53.16	30.22	4.85	23.98	51.77	74.00	-22.23	PK	PASS
	H	2390.00	44.12	30.22	4.85	23.98	42.73	54.00	-11.27	AV	PASS
	H	2400.00	53.50	30.22	4.85	23.98	52.11	74.00	-21.89	PK	PASS
	H	2400.00	44.72	30.22	4.85	23.98	43.33	54.00	-10.67	AV	PASS
	V	2390.00	53.84	30.22	4.85	23.98	52.45	74.00	-21.55	PK	PASS
	V	2390.00	44.97	30.22	4.85	23.98	43.58	54.00	-10.42	AV	PASS
	V	2400.00	53.25	30.22	4.85	23.98	51.86	74.00	-22.14	PK	PASS
	V	2400.00	44.54	30.22	4.85	23.98	43.15	54.00	-10.85	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	55.00	30.22	4.85	23.98	53.61	74.00	-20.39	PK	PASS
	H	2483.50	44.84	30.22	4.85	23.98	43.45	54.00	-10.55	AV	PASS
	H	2500.00	54.98	30.22	4.85	23.98	53.59	74.00	-20.41	PK	PASS
	H	2500.00	44.45	30.22	4.85	23.98	43.06	54.00	-10.94	AV	PASS
	V	2483.50	54.48	30.22	4.85	23.98	53.09	74.00	-20.91	PK	PASS
	V	2483.50	44.65	30.22	4.85	23.98	43.26	54.00	-10.74	AV	PASS
	V	2500.00	53.92	30.22	4.85	23.98	52.53	74.00	-21.47	PK	PASS
	V	2500.00	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV	PASS
Remark:											
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit											



	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Detect or Type	Result
8-DPSK 3-DH1	Low Channel: 2402MHz										
	H	2390.00	54.84	30.22	4.85	23.98	53.45	74.00	-20.55	PK	PASS
	H	2390.00	44.32	30.22	4.85	23.98	42.93	54.00	-11.07	AV	PASS
	H	2400.00	54.00	30.22	4.85	23.98	52.61	74.00	-21.39	PK	PASS
	H	2400.00	44.64	30.22	4.85	23.98	43.25	54.00	-10.75	AV	PASS
	V	2390.00	53.00	30.22	4.85	23.98	51.61	74.00	-22.39	PK	PASS
	V	2390.00	44.17	30.22	4.85	23.98	42.78	54.00	-11.22	AV	PASS
	V	2400.00	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	PK	PASS
	V	2400.00	44.40	30.22	4.85	23.98	43.01	54.00	-10.99	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	53.17	30.22	4.85	23.98	51.78	74.00	-22.22	Pk	PASS
	H	2483.50	44.88	30.22	4.85	23.98	43.49	54.00	-10.51	AV	PASS
	H	2500.00	54.81	30.22	4.85	23.98	53.42	74.00	-20.58	Pk	PASS
	H	2500.00	44.46	30.22	4.85	23.98	43.07	54.00	-10.93	AV	PASS
	V	2483.50	54.07	30.22	4.85	23.98	52.68	74.00	-21.32	Pk	PASS
	V	2483.50	44.88	30.22	4.85	23.98	43.49	54.00	-10.51	AV	PASS
	V	2500.00	53.19	30.22	4.85	23.98	51.80	74.00	-22.20	Pk	PASS
	V	2500.00	44.03	30.22	4.85	23.98	42.64	54.00	-11.36	AV	PASS
Remark: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit											



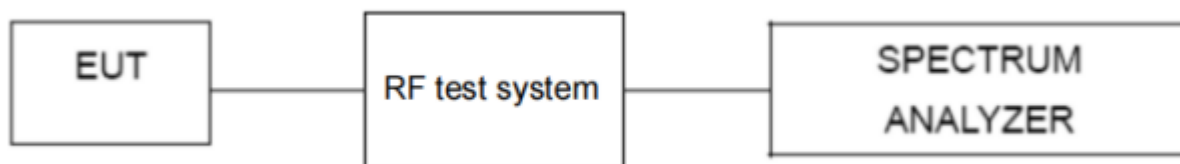
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 LIMIT

Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.2 TEST SETUP



6.3 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

- Set instrument center frequency to FHSS channel center frequency.
- Set the span to ≥ 1.5 times the 20dB bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

B. Emission level measurement, establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report



the three highest emissions relative to the limit.

6.4 DEVIATION FROM STANDARD

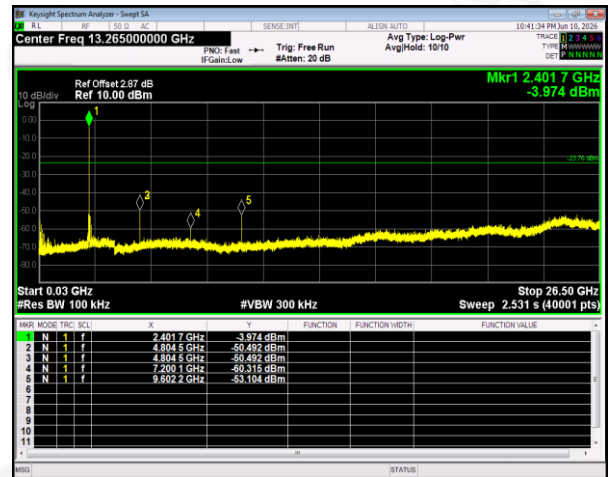
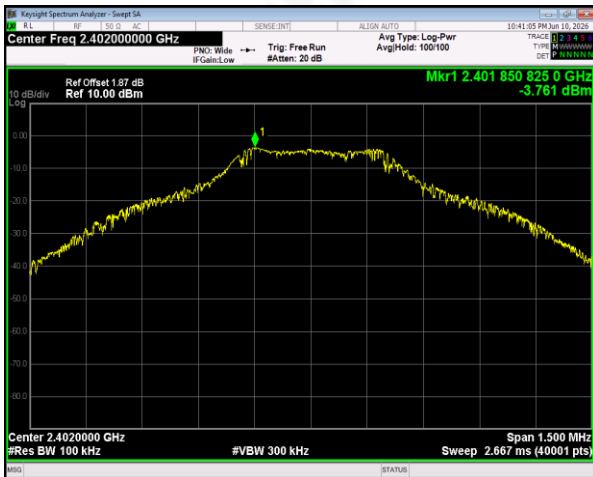
No deviation.



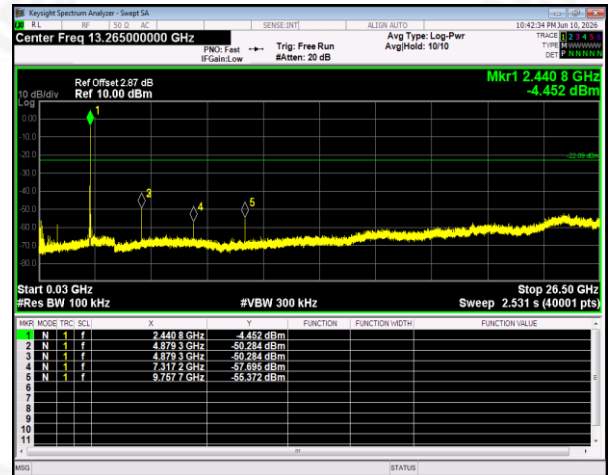
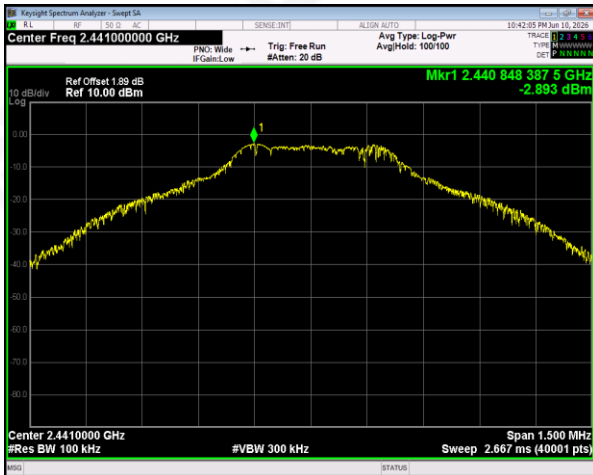
6.5 TEST RESULT

GFSK - 1-DH1

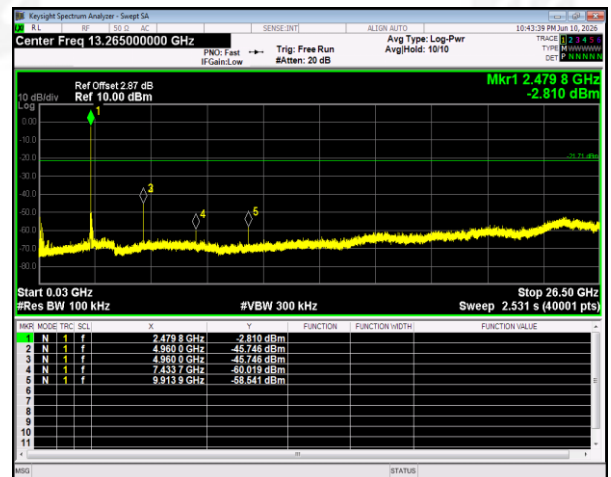
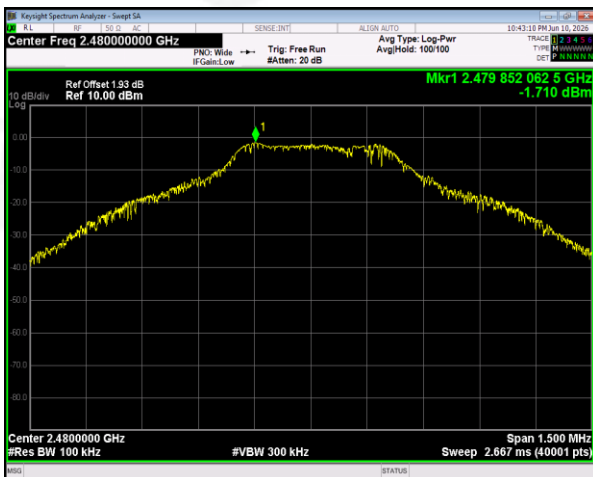
Lowest channel



Middle channel



Highest channel

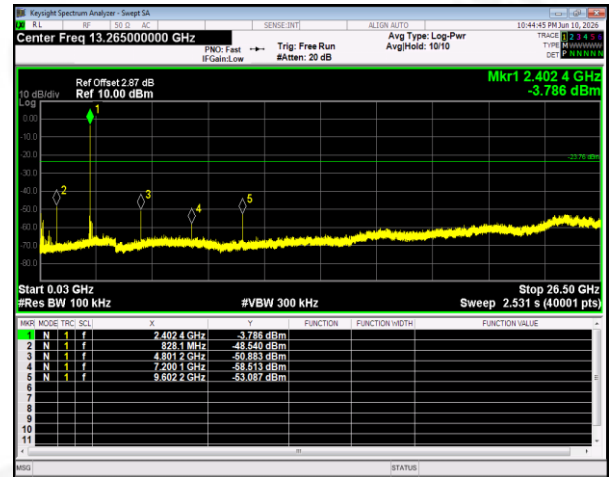
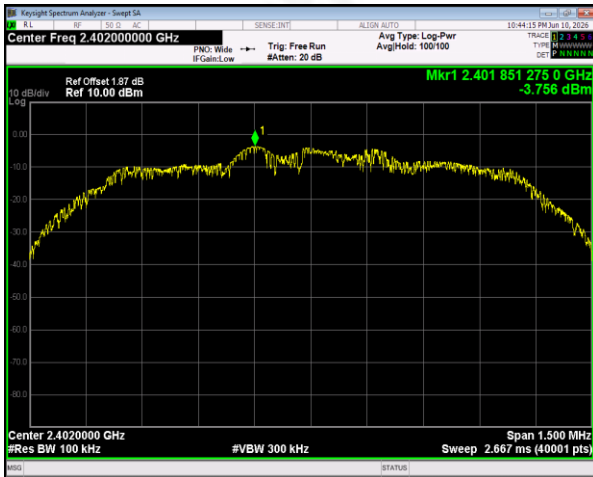


30MHz~26.5GHz

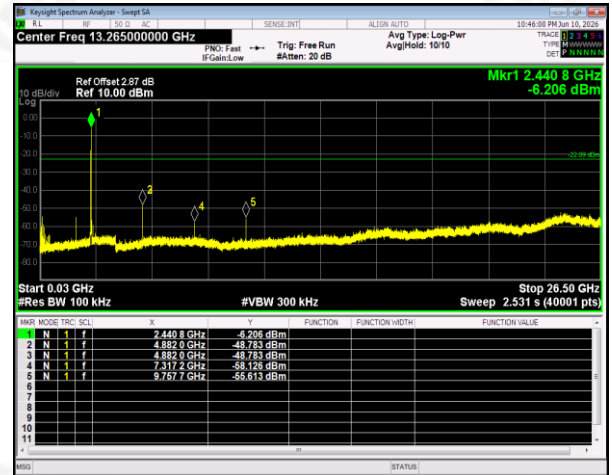
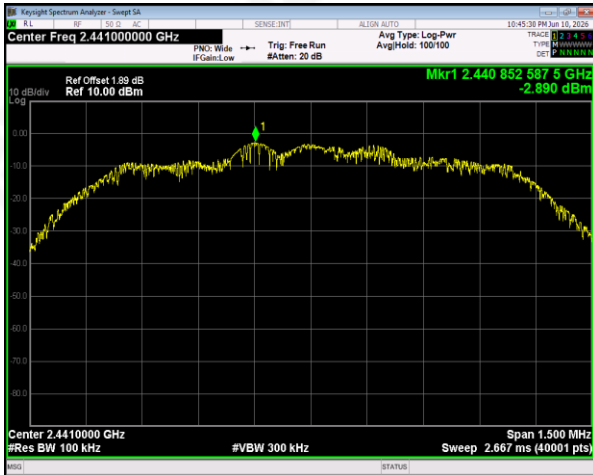


$\pi/4$ -DQPSK - 2-DH1

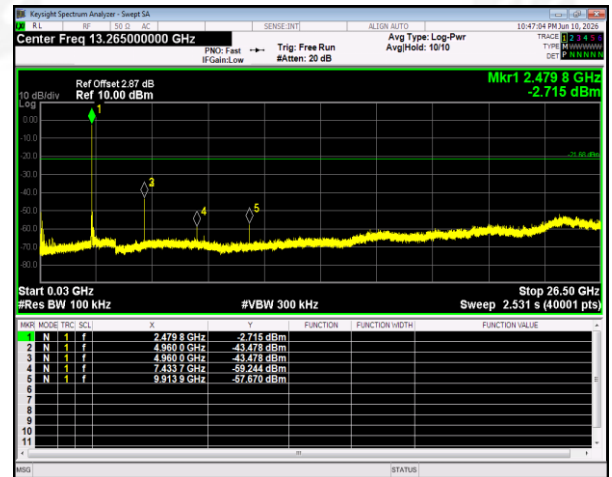
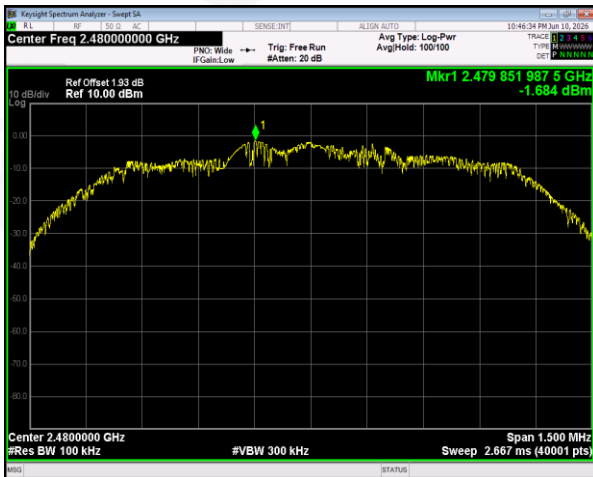
Lowest channel



Middle channel



Highest channel

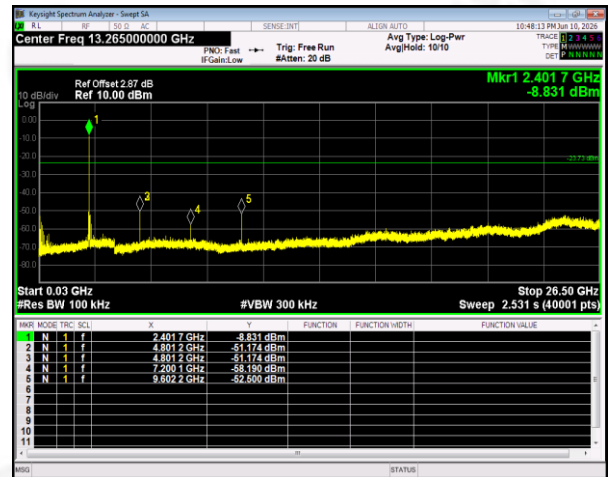
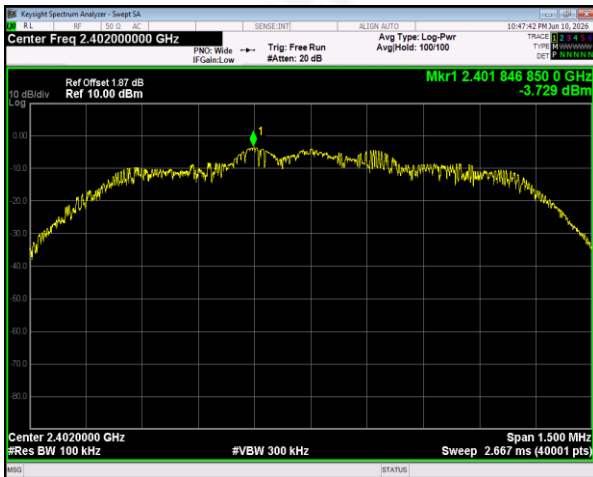


30MHz~26.5GHz

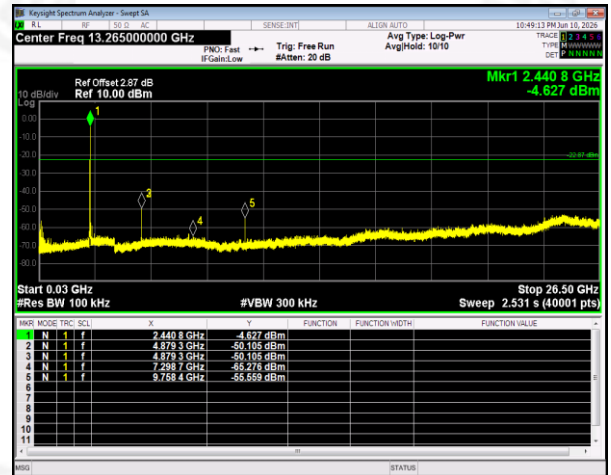
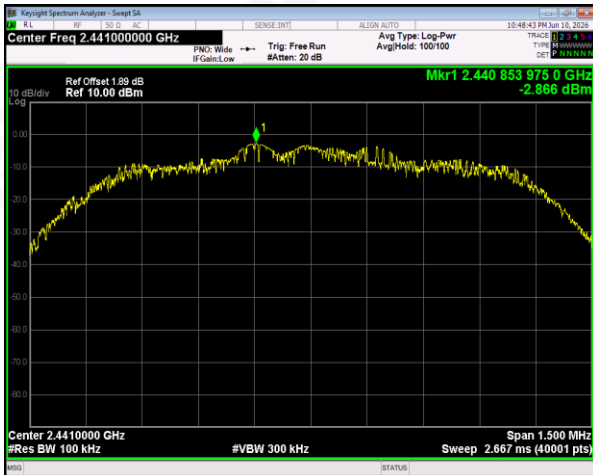


8-DPSK - 3-DH1

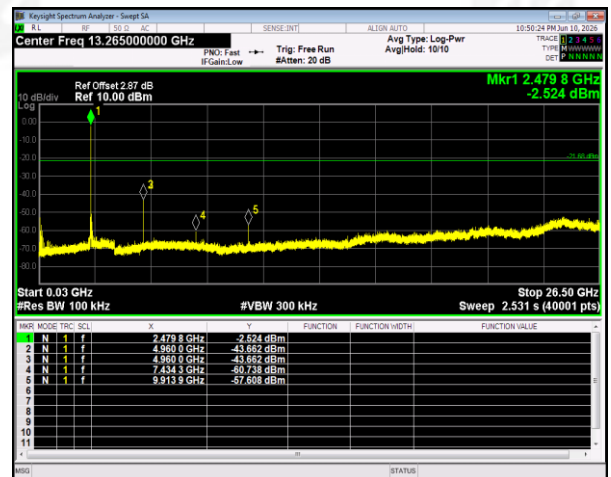
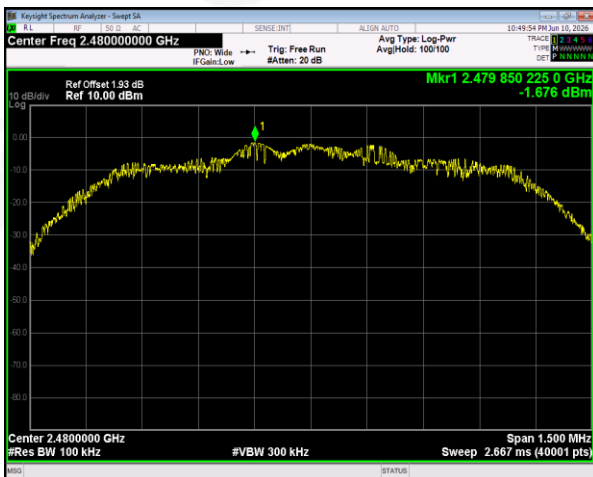
Lowest channel



Middle channel



Highest channel

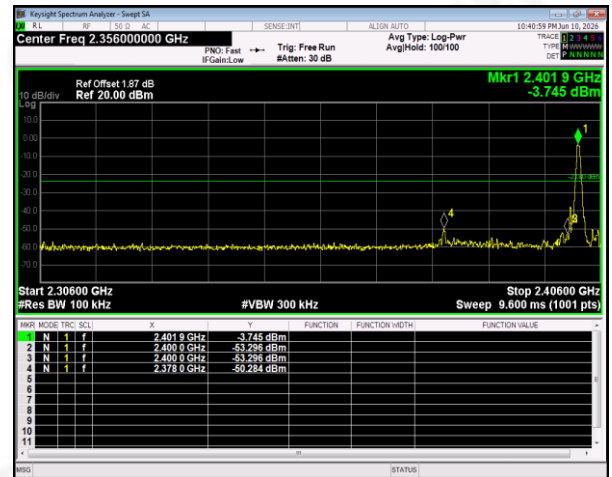
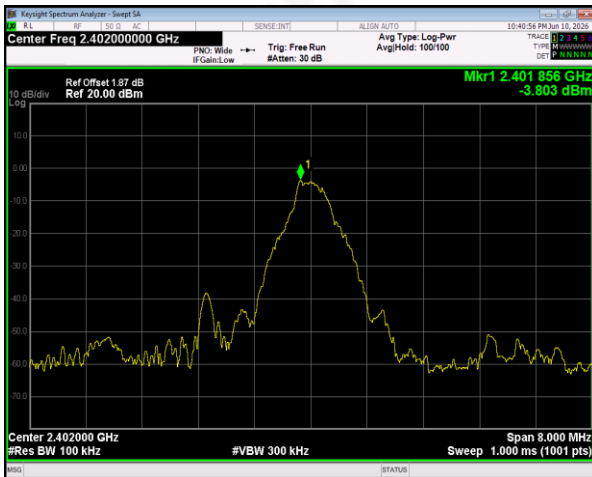


30MHz~26.5GHz

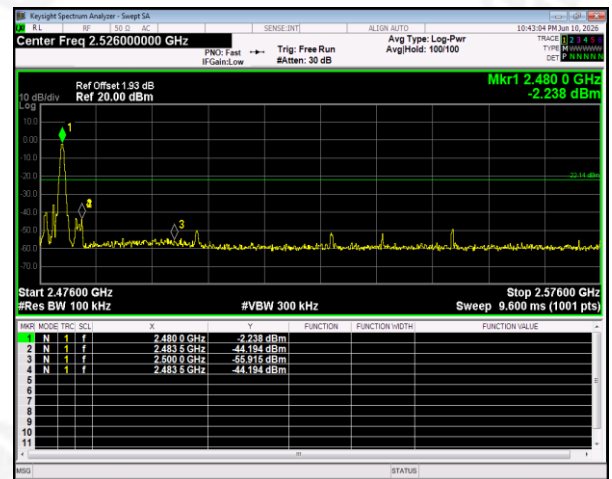
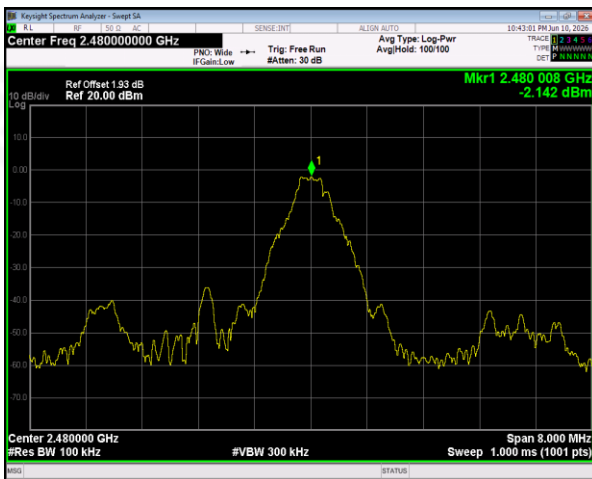


GFSK - 1-DH1

No-hopping Band edge-left side

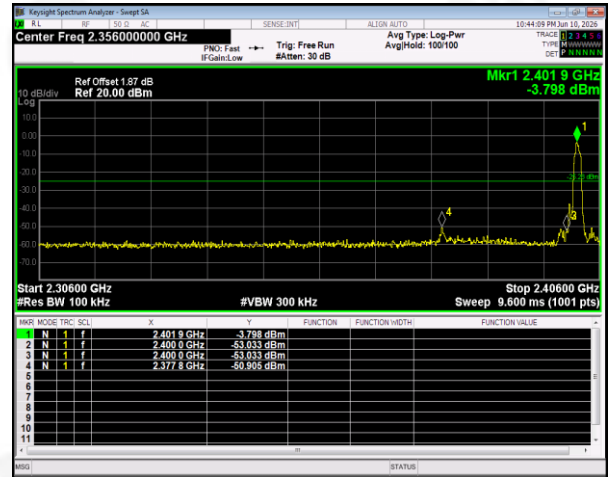
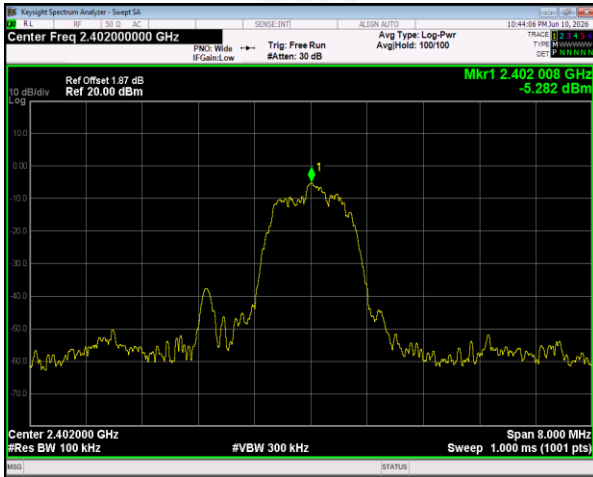


No-hopping Band edge-right side

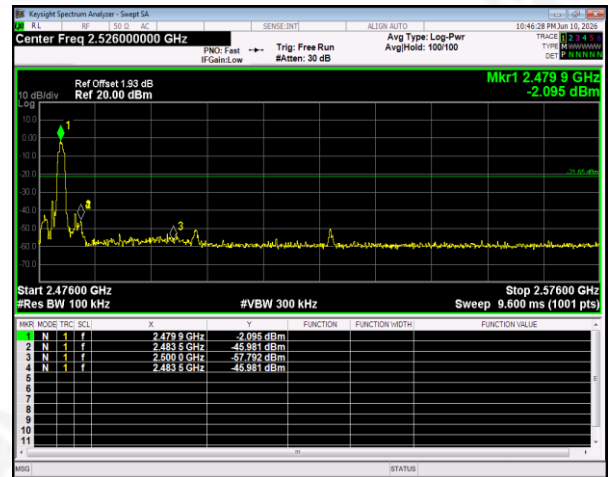




$\pi/4$ -DQPSK - 2-DH1
No-hopping Band edge-left side



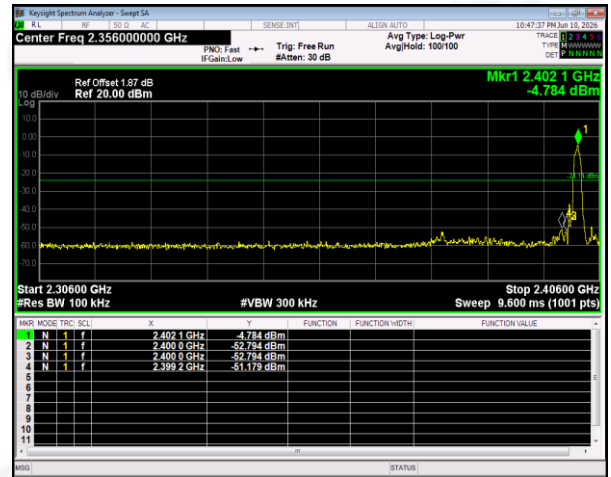
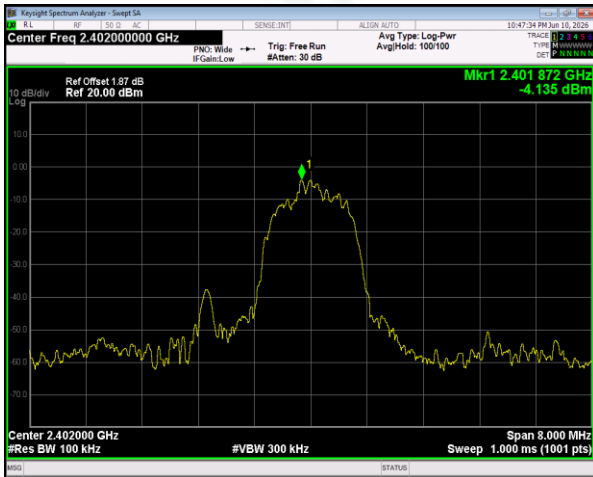
No-hopping Band edge-right side



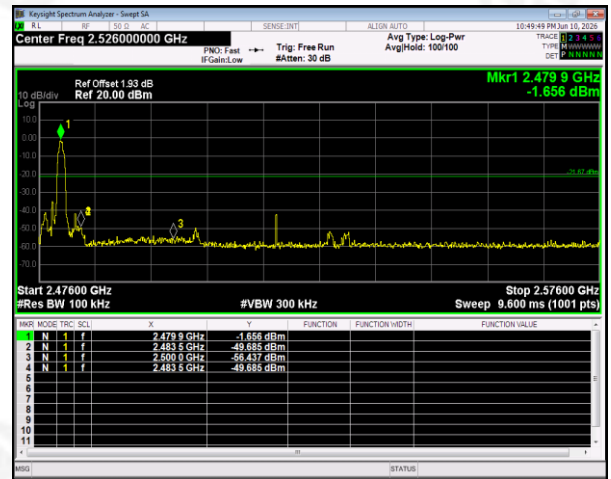


8-DPSK - 3-DH1

No-hopping Band edge-left side



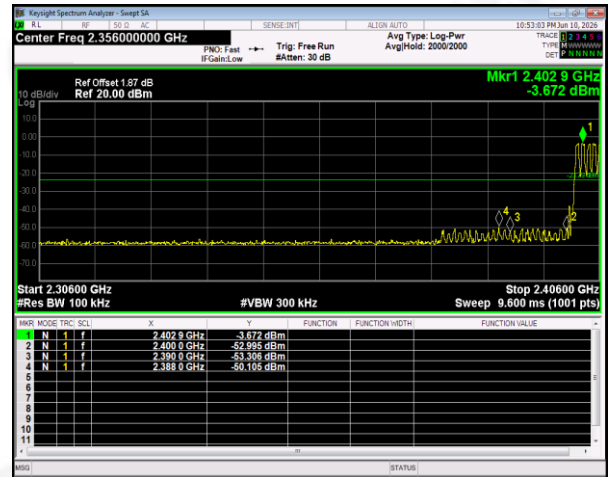
NO-hopping Band edge-right side



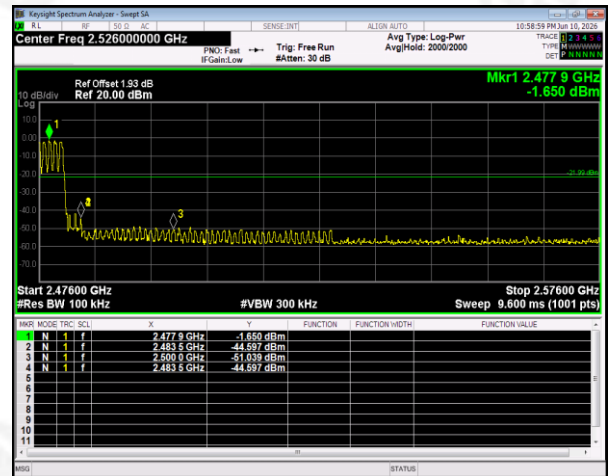


GFSK - 1-DH1

Hopping Band edge-left side



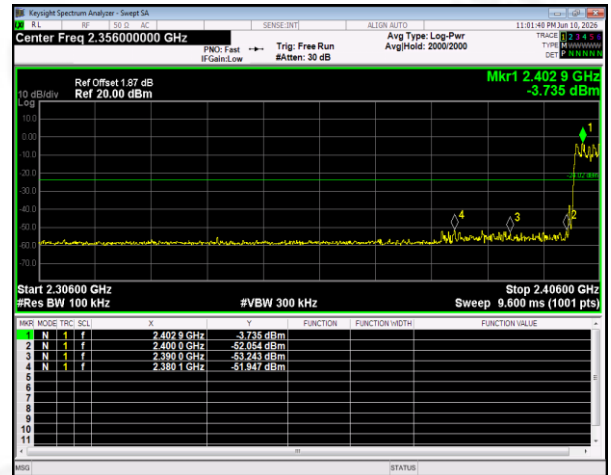
Hopping Band edge-right side





$\pi/4$ -DQPSK - 2-DH1

Hopping Band edge-left side



Hopping Band edge-right side

