FCC TEST REPORT
FCC ID:2BSVX-M01

Applicant:	Shenzhen Shuobier Technology Development Co., Ltd
Address:	309, Building B2, Shunjing Entrepreneurship Park, No. 3 Longteng 3rd Road, Jixiang Community, Longcheng Street, Longgang District, Shenzhen City, Guangdong China
Manufacturer:	Shenzhen Shuobier Technology Development Co., Ltd
Address:	309, Building B2, Shunjing Entrepreneurship Park, No. 3 Longteng 3rd Road, Jixiang Community, Longcheng Street, Longgang District, Shenzhen City, Guangdong China
EUT:	Sound card
Trade Mark:	N/A
Model Number:	M01
Date of Receipt:	Sep. 03, 2025
Test Date:	Sep. 03, 2025 to Sep. 10, 2025
Date of Report:	Sep. 12, 2025
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2020
Test Result:	Pass
Report Number:	DLE-250911007R

Prepared (Test Engineer):	Dimon Tan	Dimon Tan
Reviewer (Supervisor):	Jack Bu	Jack Bu
Approved (Manager):	Jade Yang	Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. VERSION

Report No.	Version	Description	Approved
DLE-250911007R	Rev.01	Initial issue of report	Sep. 12, 2025

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 DL Testing Technology Co., Ltd.
Add. : 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolon Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456
Designation Number: CN1307
IC Registered No.: 27485
CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U,where expended 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 camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber 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℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Sound card
Model No.:	M01
Serial No.:	N/A
Model Different.:	N/A
Sample(s) Status:	Engineer sample
Channel Numbers:	79
Channel Spacing:	1MHz
Operation Frequency:	2402MHz~2480MHz
Modulation Technology:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	PCB antenna
Antenna Gain:	3.38dBi
Power Supply:	Input:5V⎓1A
Battery Capacity:	3.7V, 600mAh, 2.22Wh

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		

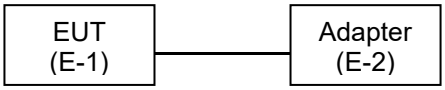
Note:

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:

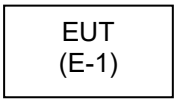
Test channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

3.2 TEST SETUP CONFIGURATION

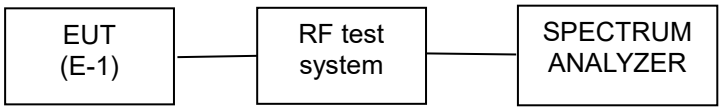
Conducted Emission



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-1	Sound card	N/A	M01	N/A	EUT
E-2	AC/DC Adapter	SANXING	SX-050450C00	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	MV_AP82xx_BP10xx_PC_Tools_V2.2.15(2021.11.12)
Power level setup	Default

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSIONS

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
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.

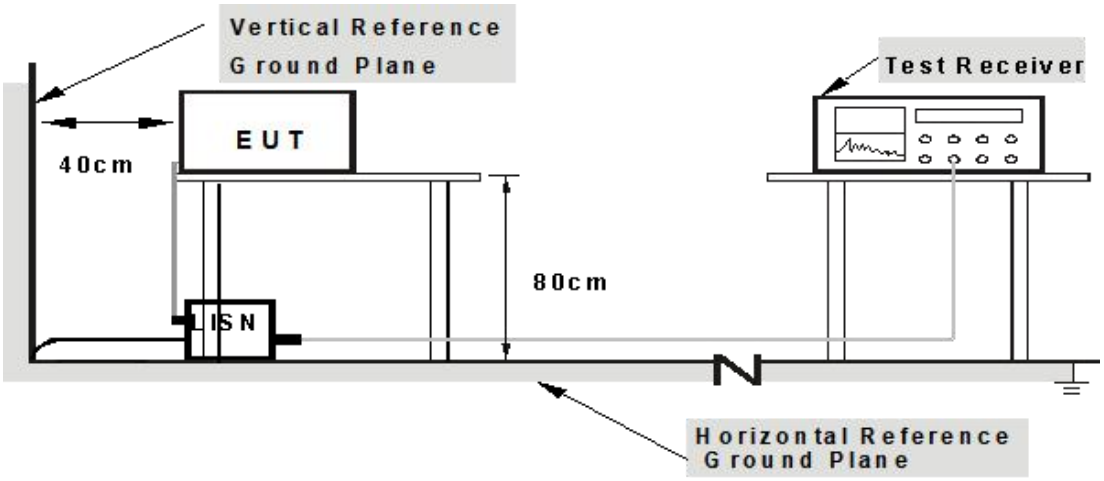
4.1.2 TEST PROCEDURE

a. 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.
b. 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.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. 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



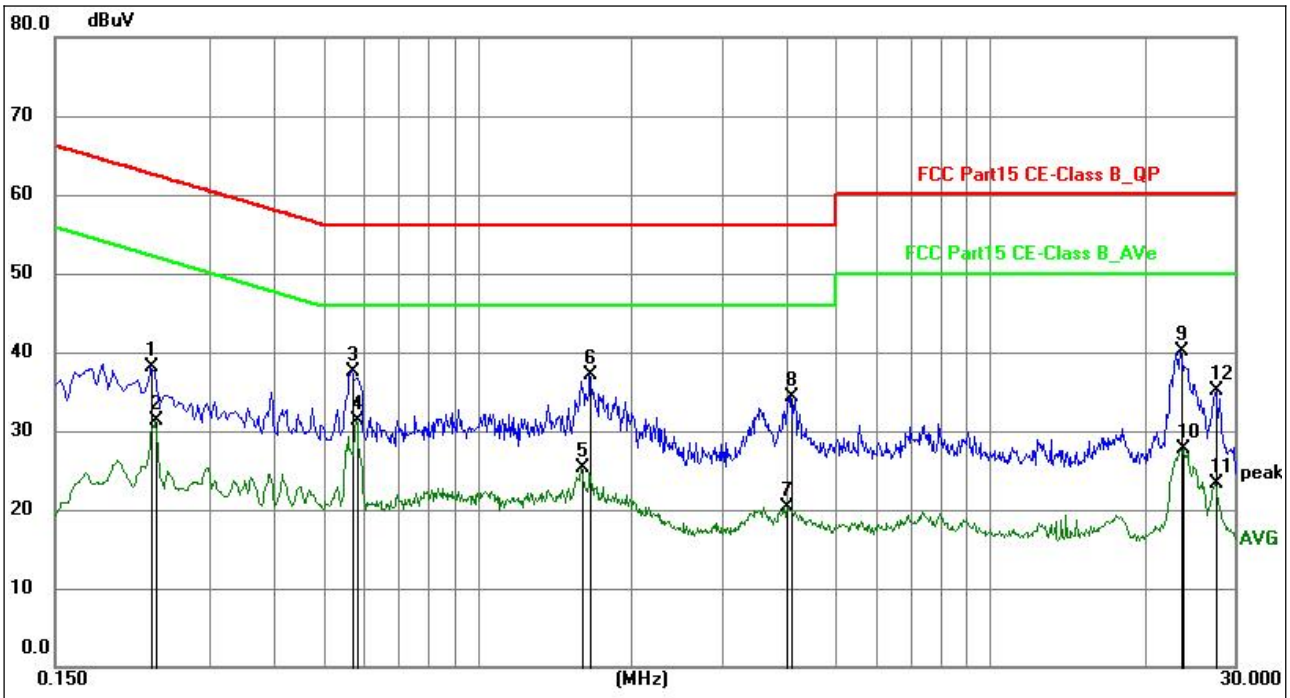
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

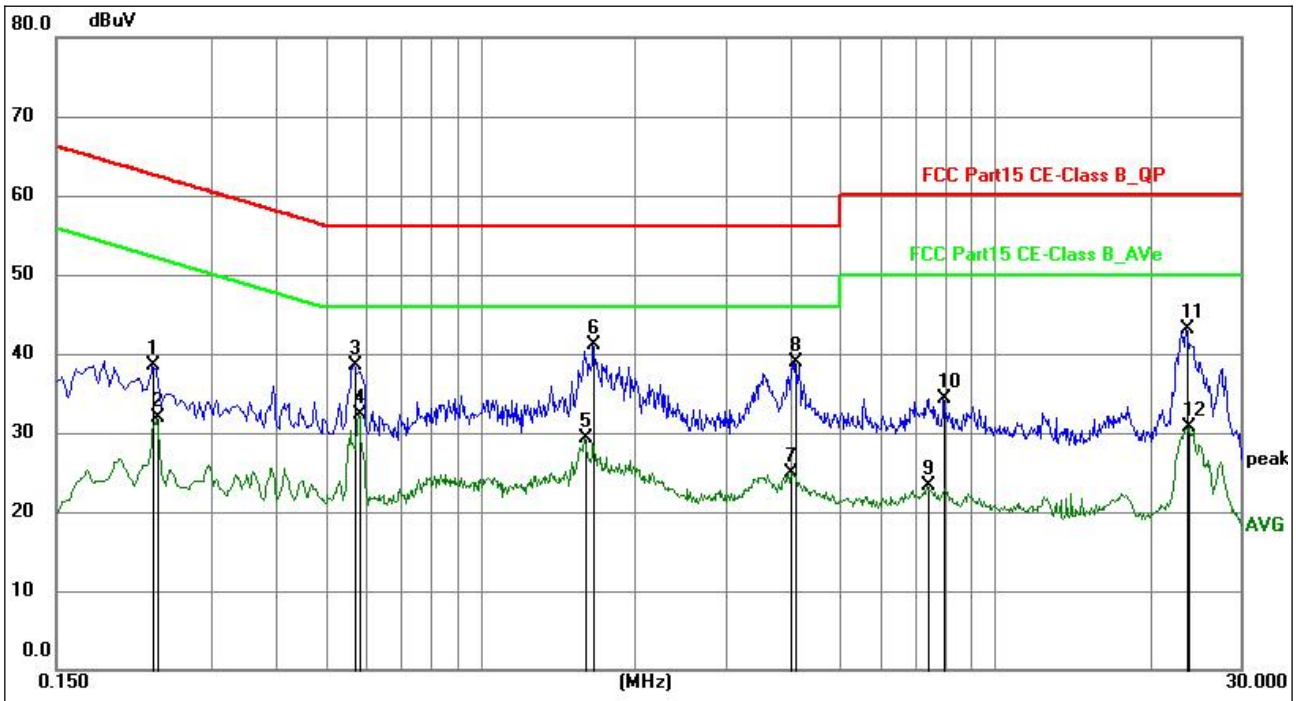
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 8-DPSK - 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2310	17.66	20.37	38.03	62.41	-24.38	QP	P	
2	0.2355	11.02	20.37	31.39	52.25	-20.86	AVG	P	
3	0.5684	17.31	20.29	37.60	56.00	-18.40	QP	P	
4	0.5819	11.04	20.29	31.33	46.00	-14.67	AVG	P	
5	1.5988	5.05	20.30	25.35	46.00	-20.65	AVG	P	
6	1.6619	16.86	20.30	37.16	56.00	-18.84	QP	P	
7	4.0155	0.05	20.34	20.39	46.00	-25.61	AVG	P	
8	4.0739	13.97	20.35	34.32	56.00	-21.68	QP	P	
9	23.5365	19.54	20.60	40.14	60.00	-19.86	QP	P	
10	23.8154	7.17	20.60	27.77	50.00	-22.23	AVG	P	
11	27.4290	2.59	20.69	23.28	50.00	-26.72	AVG	P	
12	27.6360	14.33	20.70	35.03	60.00	-24.97	QP	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.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case TX 8-DPSK - 2402MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	TX 8-DPSK - 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2310	18.16	20.37	38.53	62.41	-23.88	QP	P	
2	0.2354	11.52	20.37	31.89	52.26	-20.37	AVG	P	
3	0.5684	18.31	20.29	38.60	56.00	-17.40	QP	P	
4	0.5818	12.04	20.29	32.33	46.00	-13.67	AVG	P	
5	1.5988	9.05	20.30	29.35	46.00	-16.65	AVG	P	
6	1.6618	20.86	20.30	41.16	56.00	-14.84	QP	P	
7	4.0155	4.55	20.34	24.89	46.00	-21.11	AVG	P	
8	4.0739	18.47	20.35	38.82	56.00	-17.18	QP	P	
9	7.3994	2.90	20.39	23.29	50.00	-26.71	AVG	P	
10	7.9664	13.94	20.41	34.35	60.00	-25.65	QP	P	
11	23.5365	22.54	20.60	43.14	60.00	-16.86	QP	P	
12	23.8154	10.17	20.60	30.77	50.00	-19.23	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.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case TX 8-DPSK - 2402MHz

4.2 RADIATED EMISSIONS

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2020
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 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 (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:

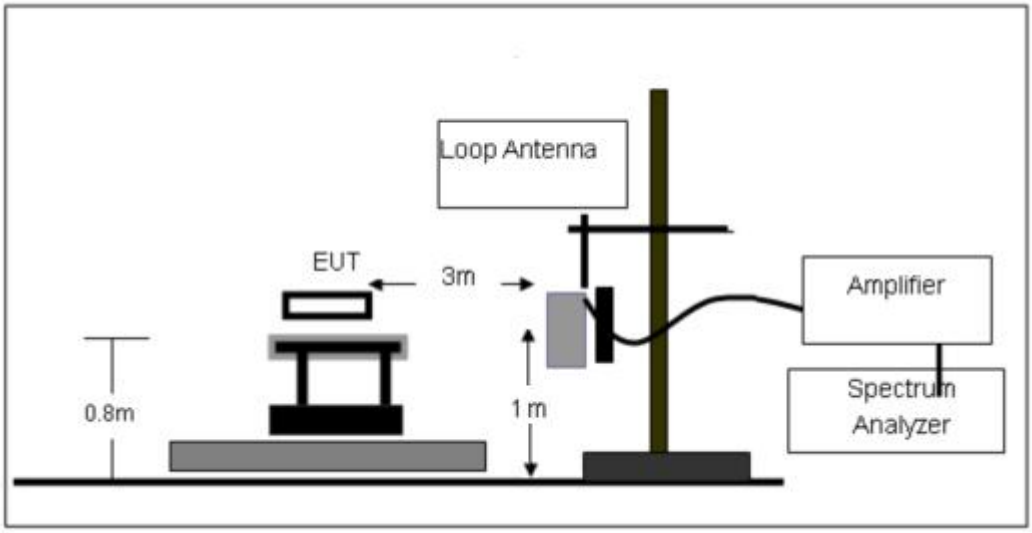
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

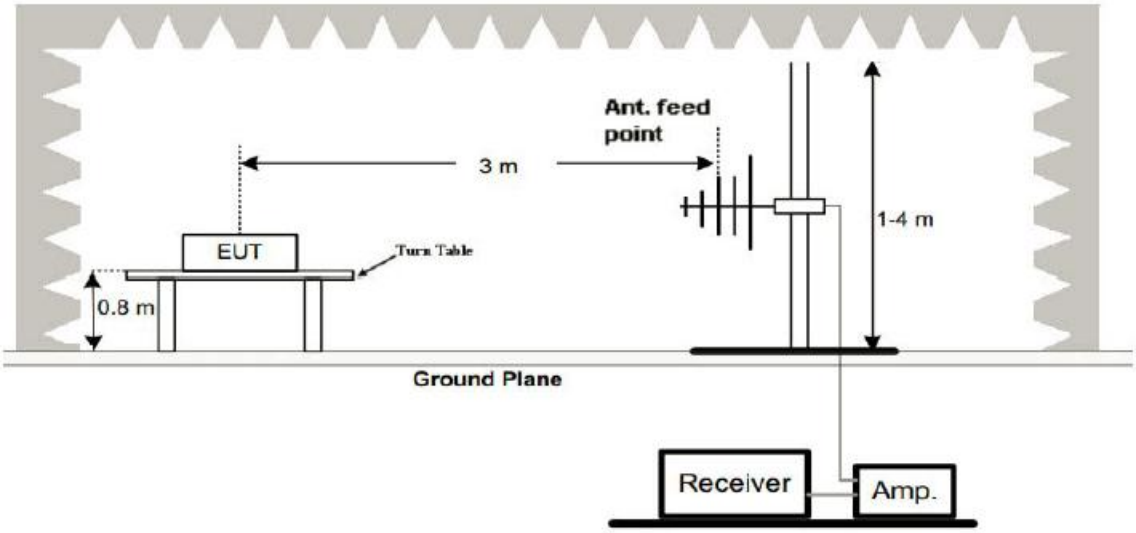
No deviation

4.2.4 TEST SETUP

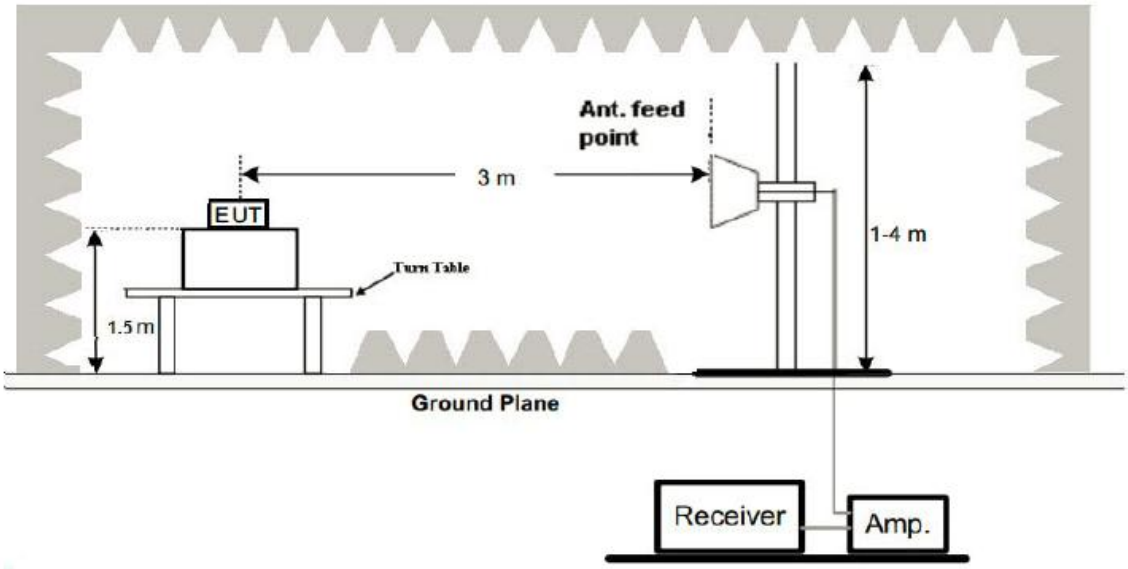
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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.

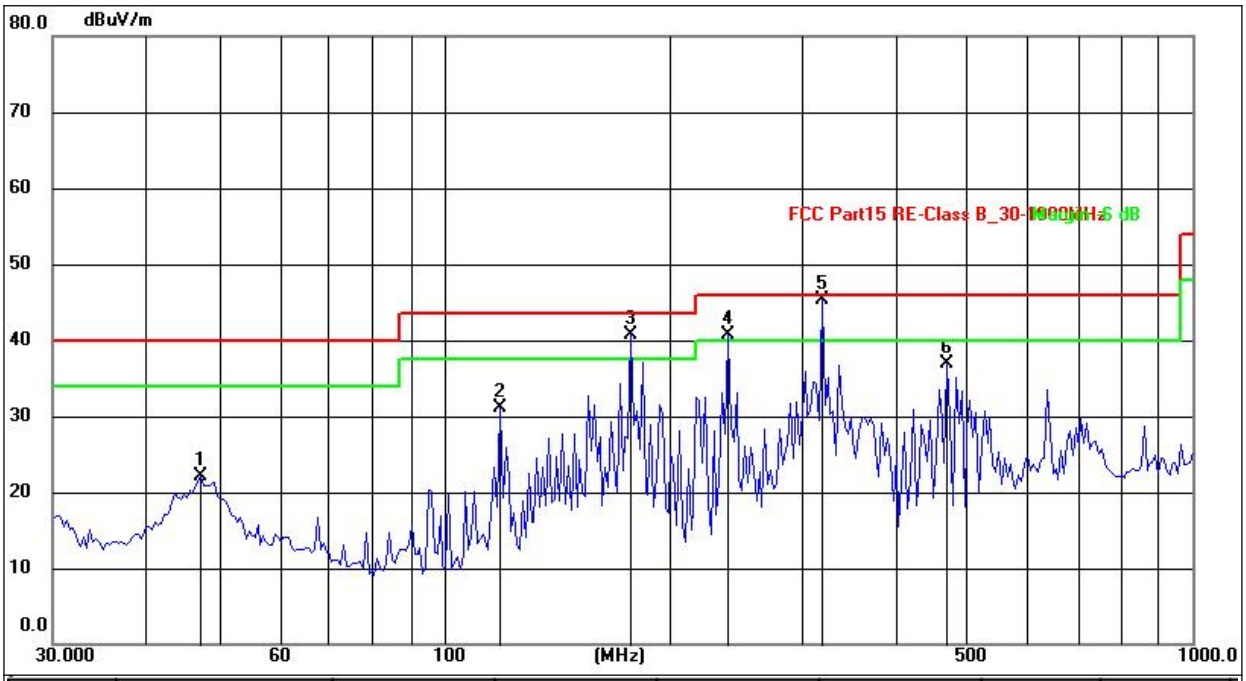
4.2.6 TEST RESULTS

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

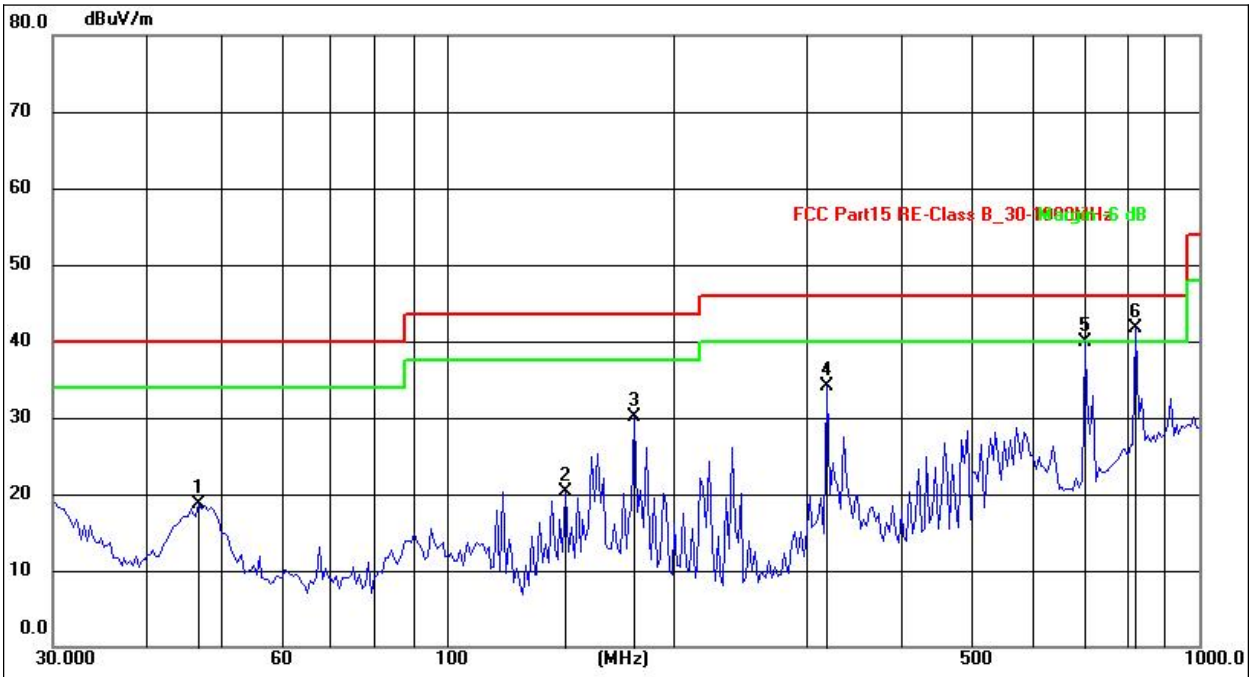
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode :	TX 8-DPSK - 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.3255	36.15	-13.96	22.19	40.00	-17.81	QP
2	118.8094	49.56	-18.49	31.07	43.50	-12.43	QP
3	177.8206	58.14	-17.40	40.74	43.50	-2.76	QP
4	239.5669	56.64	-15.96	40.68	46.00	-5.32	QP
5	319.9369	61.69	-16.45	45.24	46.00	-0.76	QP
6	470.5232	49.50	-12.51	36.99	46.00	-9.01	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 - 2402MHz.

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode :	TX 8-DPSK - 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.9123	35.71	-17.06	18.65	40.00	-21.35	QP
2	144.0818	40.86	-20.58	20.28	43.50	-23.22	QP
3	177.8206	49.75	-19.62	30.13	43.50	-13.37	QP
4	319.9368	51.28	-17.22	34.06	46.00	-11.94	QP
5	704.2260	47.18	-7.19	39.99	46.00	-6.01	QP
6	824.5968	44.22	-2.59	41.63	46.00	-4.37	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 - 2402MHz.

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	50.39	30.55	5.77	24.66	50.27	74.00	-23.73	PK
V	4804.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
V	7206.00	52.58	30.33	6.32	24.55	53.12	74.00	-20.88	PK
V	7206.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
V	9608.00	51.75	30.85	7.45	24.69	53.04	74.00	-20.96	PK
V	9608.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
V	12010.00	52.92	31.02	8.99	25.57	56.46	74.00	-17.54	PK
V	12010.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	4804.00	52.36	30.55	5.77	24.66	52.24	74.00	-21.76	PK
H	4804.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
H	7206.00	52.75	30.33	6.32	24.55	53.29	74.00	-20.71	PK
H	7206.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
H	9608.00	50.24	30.85	7.45	24.69	51.53	74.00	-22.47	PK
H	9608.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
H	12010.00	52.89	31.02	8.99	25.57	56.43	74.00	-17.57	PK
H	12010.00	43.40	31.02	8.99	25.57	46.94	54.00	-7.06	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	51.00	30.55	5.77	24.66	50.88	74.00	-23.12	PK
V	4882.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
V	7323.00	50.60	30.33	6.32	24.55	51.14	74.00	-22.86	PK
V	7323.00	43.77	30.33	6.32	24.55	44.31	54.00	-9.69	AV
V	9764.00	53.43	30.85	7.45	24.69	54.72	74.00	-19.28	PK
V	9764.00	43.60	30.85	7.45	24.69	44.89	54.00	-9.11	AV
V	12205.00	54.26	31.02	8.99	25.57	57.80	74.00	-16.20	PK
V	12205.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV
H	4882.00	53.62	30.55	5.77	24.66	53.50	74.00	-20.50	PK
H	4882.00	43.02	30.55	5.77	24.66	42.90	54.00	-11.10	AV
H	7323.00	53.00	30.33	6.32	24.55	53.54	74.00	-20.46	PK
H	7323.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
H	9764.00	54.97	30.85	7.45	24.69	56.26	74.00	-17.74	PK
H	9764.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
H	12205.00	51.35	31.02	8.99	25.57	54.89	74.00	-19.11	PK
H	12205.00	43.37	31.02	8.99	25.57	46.91	54.00	-7.09	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
High Channel:2480MHz									
V	4960.00	50.94	30.55	5.77	24.66	50.82	74.00	-23.18	PK
V	4960.00	43.95	30.55	5.77	24.66	43.83	54.00	-10.17	AV
V	7440.00	53.37	30.33	6.32	24.55	53.91	74.00	-20.09	PK
V	7440.00	43.33	30.33	6.32	24.55	43.87	54.00	-10.13	AV
V	9920.00	50.74	30.85	7.45	24.69	52.03	74.00	-21.97	PK
V	9920.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
V	12400.00	51.63	31.02	8.99	25.57	55.17	74.00	-18.83	PK
V	12400.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	AV
H	4960.00	50.01	30.55	5.77	24.66	49.89	74.00	-24.11	PK
H	4960.00	43.39	30.55	5.77	24.66	43.27	54.00	-10.73	AV
H	7440.00	51.27	30.33	6.32	24.55	51.81	74.00	-22.19	PK
H	7440.00	43.20	30.33	6.32	24.55	43.74	54.00	-10.26	AV
H	9920.00	52.14	30.85	7.45	24.69	53.43	74.00	-20.57	PK
H	9920.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
H	12400.00	51.90	31.02	8.99	25.57	55.44	74.00	-18.56	PK
H	12400.00	43.24	31.02	8.99	25.57	46.78	54.00	-7.22	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.

π/4-DQPSK - 2-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	50.05	30.55	5.77	24.66	49.93	74.00	-24.07	PK
V	4804.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
V	7206.00	54.56	30.33	6.32	24.55	55.10	74.00	-18.90	PK
V	7206.00	43.55	30.33	6.32	24.55	44.09	54.00	-9.91	AV
V	9608.00	52.74	30.85	7.45	24.69	54.03	74.00	-19.97	PK
V	9608.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
V	12010.00	52.06	31.02	8.99	25.57	55.60	74.00	-18.40	PK
V	12010.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	4804.00	50.31	30.55	5.77	24.66	50.19	74.00	-23.81	PK
H	4804.00	43.21	30.55	5.77	24.66	43.09	54.00	-10.91	AV
H	7206.00	50.30	30.33	6.32	24.55	50.84	74.00	-23.16	PK
H	7206.00	43.82	30.33	6.32	24.55	44.36	54.00	-9.64	AV
H	9608.00	50.95	30.85	7.45	24.69	52.24	74.00	-21.76	PK
H	9608.00	43.64	30.85	7.45	24.69	44.93	54.00	-9.07	AV
H	12010.00	50.18	31.02	8.99	25.57	53.72	74.00	-20.28	PK
H	12010.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	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	52.31	30.55	5.77	24.66	52.19	74.00	-21.81	PK
V	4882.00	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	7323.00	51.75	30.33	6.32	24.55	52.29	74.00	-21.71	PK
V	7323.00	43.75	30.33	6.32	24.55	44.29	54.00	-9.71	AV
V	9764.00	54.33	30.85	7.45	24.69	55.62	74.00	-18.38	PK
V	9764.00	43.38	30.85	7.45	24.69	44.67	54.00	-9.33	AV
V	12205.00	54.85	31.02	8.99	25.57	58.39	74.00	-15.61	PK
V	12205.00	43.46	31.02	8.99	25.57	47.00	54.00	-7.00	AV
H	4882.00	52.06	30.55	5.77	24.66	51.94	74.00	-22.06	PK
H	4882.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
H	7323.00	53.11	30.33	6.32	24.55	53.65	74.00	-20.35	PK
H	7323.00	43.47	30.33	6.32	24.55	44.01	54.00	-9.99	AV
H	9764.00	51.48	30.85	7.45	24.69	52.77	74.00	-21.23	PK
H	9764.00	43.55	30.85	7.45	24.69	44.84	54.00	-9.16	AV
H	12205.00	50.42	31.02	8.99	25.57	53.96	74.00	-20.04	PK
H	12205.00	43.78	31.02	8.99	25.57	47.32	54.00	-6.68	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
High Channel:2480MHz									
V	4960.00	52.79	30.55	5.77	24.66	52.67	74.00	-21.33	PK
V	4960.00	43.43	30.55	5.77	24.66	43.31	54.00	-10.69	AV
V	7440.00	52.00	30.33	6.32	24.55	52.54	74.00	-21.46	PK
V	7440.00	43.67	30.33	6.32	24.55	44.21	54.00	-9.79	AV
V	9920.00	51.83	30.85	7.45	24.69	53.12	74.00	-20.88	PK
V	9920.00	43.87	30.85	7.45	24.69	45.16	54.00	-8.84	AV
V	12400.00	54.11	31.02	8.99	25.57	57.65	74.00	-16.35	PK
V	12400.00	43.35	31.02	8.99	25.57	46.89	54.00	-7.11	AV
H	4960.00	53.85	30.55	5.77	24.66	53.73	74.00	-20.27	PK
H	4960.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
H	7440.00	51.63	30.33	6.32	24.55	52.17	74.00	-21.83	PK
H	7440.00	43.08	30.33	6.32	24.55	43.62	54.00	-10.38	AV
H	9920.00	54.07	30.85	7.45	24.69	55.36	74.00	-18.64	PK
H	9920.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
H	12400.00	51.34	31.02	8.99	25.57	54.88	74.00	-19.12	PK
H	12400.00	43.61	31.02	8.99	25.57	47.15	54.00	-6.85	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 (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	51.74	30.55	5.77	24.66	51.62	74.00	-22.38	PK
V	4804.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
V	7206.00	51.79	30.33	6.32	24.55	52.33	74.00	-21.67	PK
V	7206.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
V	9608.00	52.23	30.85	7.45	24.69	53.52	74.00	-20.48	PK
V	9608.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12010.00	53.43	31.02	8.99	25.57	56.97	74.00	-17.03	PK
V	12010.00	43.93	31.02	8.99	25.57	47.47	54.00	-6.53	AV
H	4804.00	51.98	30.55	5.77	24.66	51.86	74.00	-22.14	PK
H	4804.00	43.93	30.55	5.77	24.66	43.81	54.00	-10.19	AV
H	7206.00	52.30	30.33	6.32	24.55	52.84	74.00	-21.16	PK
H	7206.00	43.40	30.33	6.32	24.55	43.94	54.00	-10.06	AV
H	9608.00	54.89	30.85	7.45	24.69	56.18	74.00	-17.82	PK
H	9608.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12010.00	50.88	31.02	8.99	25.57	54.42	74.00	-19.58	PK
H	12010.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	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	51.83	30.55	5.77	24.66	51.71	74.00	-22.29	PK
V	4882.00	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
V	7323.00	51.86	30.33	6.32	24.55	52.40	74.00	-21.60	PK
V	7323.00	43.58	30.33	6.32	24.55	44.12	54.00	-9.88	AV
V	9764.00	53.31	30.85	7.45	24.69	54.60	74.00	-19.40	PK
V	9764.00	43.93	30.85	7.45	24.69	45.22	54.00	-8.78	AV
V	12205.00	52.78	31.02	8.99	25.57	56.32	74.00	-17.68	PK
V	12205.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	AV
H	4882.00	53.23	30.55	5.77	24.66	53.11	74.00	-20.89	PK
H	4882.00	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
H	7323.00	52.79	30.33	6.32	24.55	53.33	74.00	-20.67	PK
H	7323.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
H	9764.00	52.75	30.85	7.45	24.69	54.04	74.00	-19.96	PK
H	9764.00	43.11	30.85	7.45	24.69	44.40	54.00	-9.60	AV
H	12205.00	54.00	31.02	8.99	25.57	57.54	74.00	-16.46	PK
H	12205.00	43.93	31.02	8.99	25.57	47.47	54.00	-6.53	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
High Channel:2480MHz									
V	4960.00	54.06	30.55	5.77	24.66	53.94	74.00	-20.06	PK
V	4960.00	43.23	30.55	5.77	24.66	43.11	54.00	-10.89	AV
V	7440.00	54.06	30.33	6.32	24.55	54.60	74.00	-19.40	PK
V	7440.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
V	9920.00	50.03	30.85	7.45	24.69	51.32	74.00	-22.68	PK
V	9920.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
V	12400.00	50.91	31.02	8.99	25.57	54.45	74.00	-19.55	PK
V	12400.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV
H	4960.00	50.69	30.55	5.77	24.66	50.57	74.00	-23.43	PK
H	4960.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
H	7440.00	51.84	30.33	6.32	24.55	52.38	74.00	-21.62	PK
H	7440.00	43.28	30.33	6.32	24.55	43.82	54.00	-10.18	AV
H	9920.00	50.89	30.85	7.45	24.69	52.18	74.00	-21.82	PK
H	9920.00	43.74	30.85	7.45	24.69	45.03	54.00	-8.97	AV
H	12400.00	50.74	31.02	8.99	25.57	54.28	74.00	-19.72	PK
H	12400.00	43.37	31.02	8.99	25.57	46.91	54.00	-7.09	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
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:

a. 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:

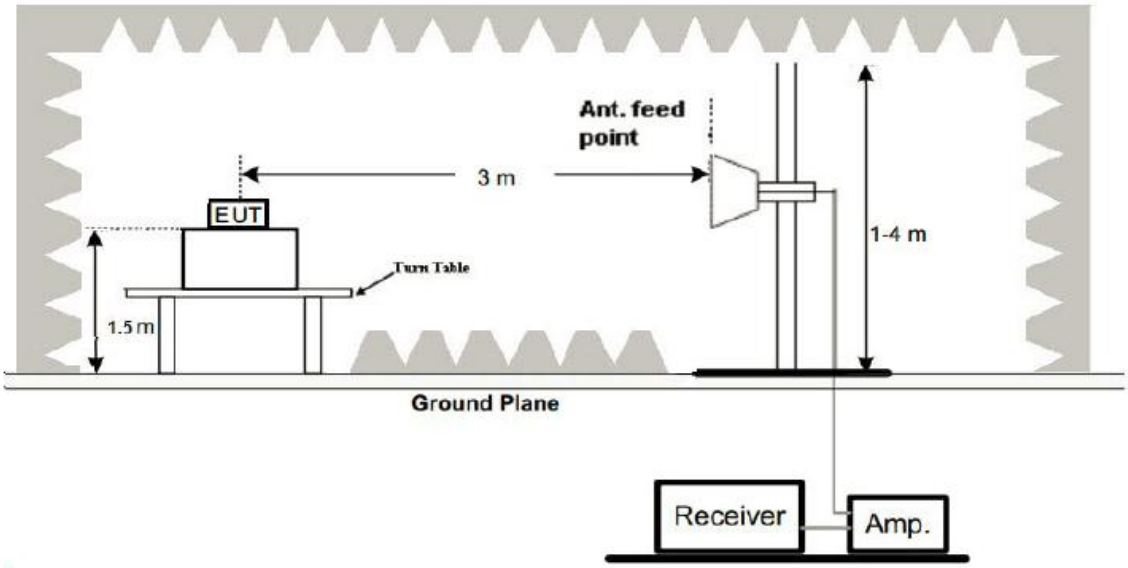
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

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)	Detector Type	Result
GFSK 1-DH1	Low Channel: 2402MHz										
	H	2310.00	54.41	30.22	4.85	23.98	53.02	74.00	-20.98	PK	PASS
	H	2310.00	44.98	30.22	4.85	23.98	43.59	54.00	-10.41	AV	PASS
	H	2350.00	54.25	30.22	4.85	23.98	52.86	74.00	-21.14	PK	PASS
	H	2350.00	44.64	30.22	4.85	23.98	43.25	54.00	-10.75	AV	PASS
	H	2390.00	53.40	30.22	4.85	23.98	52.01	74.00	-21.99	PK	PASS
	H	2390.00	44.43	30.22	4.85	23.98	43.04	54.00	-10.96	AV	PASS
	V	2400.00	54.25	30.22	4.85	23.98	52.86	74.00	-21.14	PK	PASS
	V	2400.00	44.34	30.22	4.85	23.98	42.95	54.00	-11.05	AV	PASS
	V	2390.00	54.29	30.22	4.85	23.98	52.90	74.00	-21.10	PK	PASS
	V	2390.00	44.83	30.22	4.85	23.98	43.44	54.00	-10.56	AV	PASS
	V	2400.00	54.02	30.22	4.85	23.98	52.63	74.00	-21.37	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	53.01	30.22	4.85	23.98	51.62	74.00	-22.38	PK	PASS
	H	2483.50	44.86	30.22	4.85	23.98	43.47	54.00	-10.53	AV	PASS
	H	2500.00	53.01	30.22	4.85	23.98	51.62	74.00	-22.38	PK	PASS
	H	2500.00	44.30	30.22	4.85	23.98	42.91	54.00	-11.09	AV	PASS
	V	2483.50	54.15	30.22	4.85	23.98	52.76	74.00	-21.24	PK	PASS
	V	2483.50	44.14	30.22	4.85	23.98	42.75	54.00	-11.25	AV	PASS
	V	2500.00	53.02	30.22	4.85	23.98	51.63	74.00	-22.37	PK	PASS
	V	2500.00	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV	PASS
π/4-DQ PSK 2-DH1	Low Channel: 2402MHz										
	H	2310.00	54.93	30.22	4.85	23.98	53.54	74.00	-20.46	PK	PASS
	H	2310.00	44.14	30.22	4.85	23.98	42.75	54.00	-11.25	AV	PASS
	H	2350.00	54.15	30.22	4.85	23.98	52.76	74.00	-21.24	PK	PASS
	H	2350.00	44.24	30.22	4.85	23.98	42.85	54.00	-11.15	AV	PASS
	H	2390.00	54.93	30.22	4.85	23.98	53.54	74.00	-20.46	PK	PASS
	H	2390.00	44.54	30.22	4.85	23.98	43.15	54.00	-10.85	AV	PASS
	V	2400.00	54.46	30.22	4.85	23.98	53.07	74.00	-20.93	PK	PASS
	V	2400.00	44.74	30.22	4.85	23.98	43.35	54.00	-10.65	AV	PASS
	V	2390.00	53.22	30.22	4.85	23.98	51.83	74.00	-22.17	PK	PASS
	V	2390.00	44.68	30.22	4.85	23.98	43.29	54.00	-10.71	AV	PASS
	V	2400.00	54.42	30.22	4.85	23.98	53.03	74.00	-20.97	PK	PASS
	V	2400.00	44.28	30.22	4.85	23.98	42.89	54.00	-11.11	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	54.26	30.22	4.85	23.98	52.87	74.00	-21.13	PK	PASS
	H	2483.50	44.48	30.22	4.85	23.98	43.09	54.00	-10.91	AV	PASS
	H	2500.00	54.60	30.22	4.85	23.98	53.21	74.00	-20.79	PK	PASS
	H	2500.00	44.14	30.22	4.85	23.98	42.75	54.00	-11.25	AV	PASS
	V	2483.50	54.63	30.22	4.85	23.98	53.24	74.00	-20.76	PK	PASS
	V	2483.50	44.58	30.22	4.85	23.98	43.19	54.00	-10.81	AV	PASS
	V	2500.00	54.64	30.22	4.85	23.98	53.25	74.00	-20.75	PK	PASS
	V	2500.00	44.73	30.22	4.85	23.98	43.34	54.00	-10.66	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	2310.00	53.12	30.22	4.85	23.98	51.73	74.00	-22.27	PK	PASS
	H	2310.00	44.89	30.22	4.85	23.98	43.50	54.00	-10.50	PK	PASS
	H	2350.00	54.20	30.22	4.85	23.98	52.81	74.00	-21.19	PK	PASS
	H	2350.00	44.08	30.22	4.85	23.98	42.69	54.00	-11.31	PK	PASS
	H	2390.00	53.14	30.22	4.85	23.98	51.75	74.00	-22.25	PK	PASS
	H	2390.00	44.07	30.22	4.85	23.98	42.68	54.00	-11.32	AV	PASS
	H	2400.00	54.82	30.22	4.85	23.98	53.43	74.00	-20.57	PK	PASS
	H	2400.00	44.82	30.22	4.85	23.98	43.43	54.00	-10.57	AV	PASS
	V	2360.00	53.12	30.22	4.85	23.98	51.73	74.00	-22.27	PK	PASS
	V	2360.00	44.89	30.22	4.85	23.98	43.50	54.00	-10.50	PK	PASS
	V	2390.00	54.15	30.22	4.85	23.98	52.76	74.00	-21.24	PK	PASS
	V	2390.00	44.13	30.22	4.85	23.98	42.74	54.00	-11.26	AV	PASS
	V	2400.00	54.54	30.22	4.85	23.98	53.15	74.00	-20.85	PK	PASS
	V	2400.00	44.61	30.22	4.85	23.98	43.22	54.00	-10.78	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	54.32	30.22	4.85	23.98	52.93	74.00	-21.07	Pk	PASS
	H	2483.50	44.67	30.22	4.85	23.98	43.28	54.00	-10.72	AV	PASS
	H	2500.00	54.62	30.22	4.85	23.98	53.23	74.00	-20.77	Pk	PASS
	H	2500.00	44.26	30.22	4.85	23.98	42.87	54.00	-11.13	AV	PASS
	V	2483.50	54.76	30.22	4.85	23.98	53.37	74.00	-20.63	Pk	PASS
	V	2483.50	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV	PASS
	V	2500.00	53.24	30.22	4.85	23.98	51.85	74.00	-22.15	Pk	PASS
	V	2500.00	44.15	30.22	4.85	23.98	42.76	54.00	-11.24	AV	PASS

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

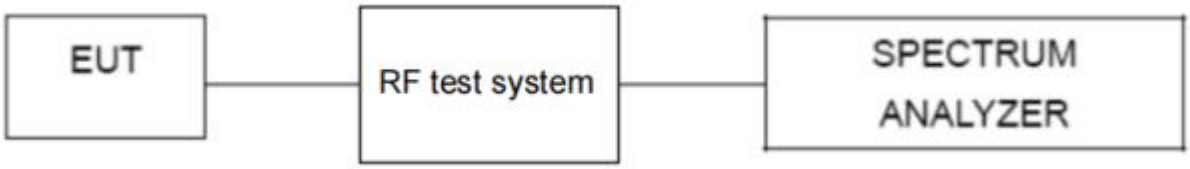
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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:

a) Set instrument center frequency to FHSS channel center frequency.
b) Set the span to ≥ 1.5 times the 20dB bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) 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:

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) 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.

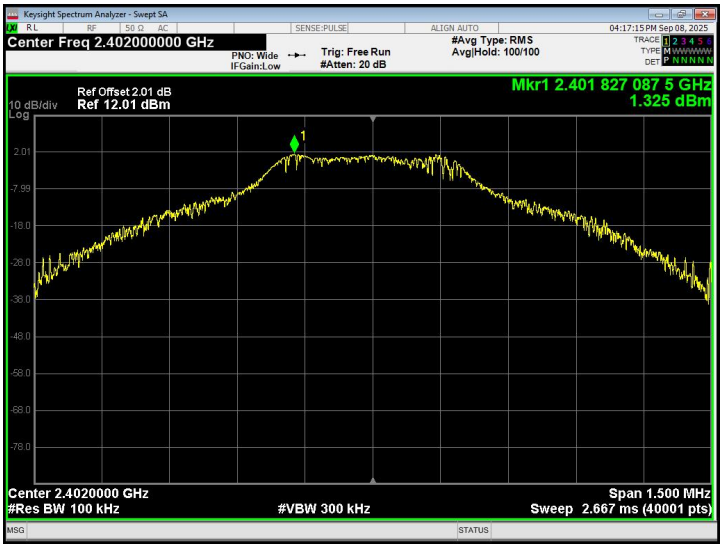
6.4 DEVIATION FROM STANDARD

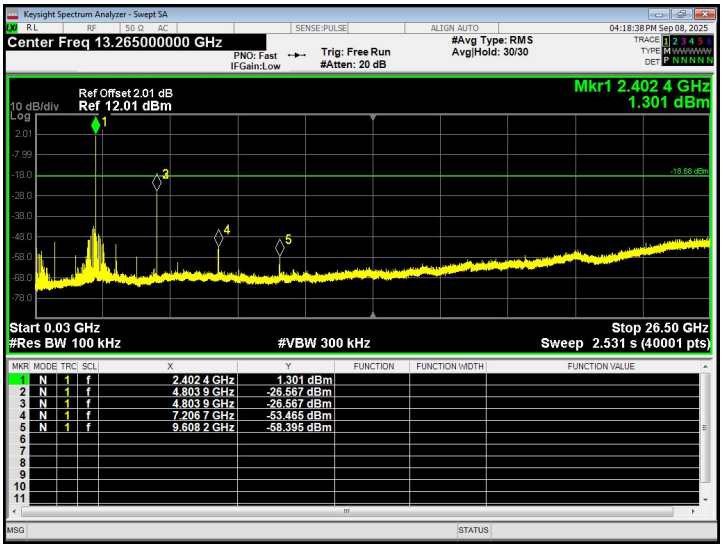
No deviation.

6.5 TEST RESULT

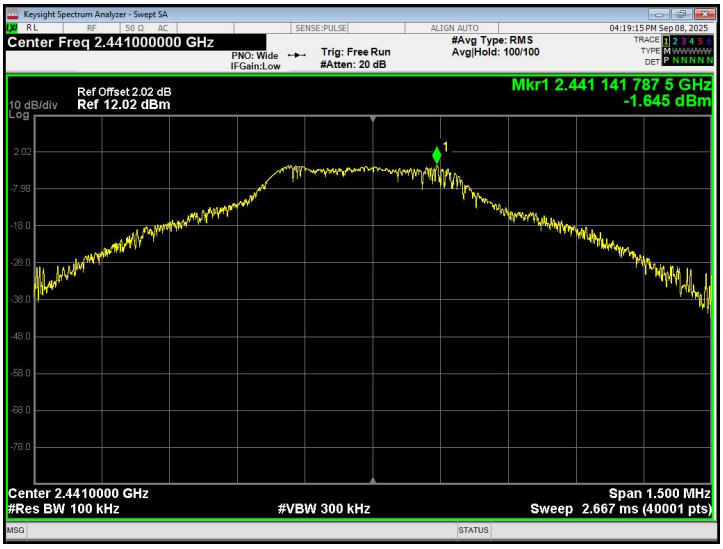
GFSK - 1-DH1

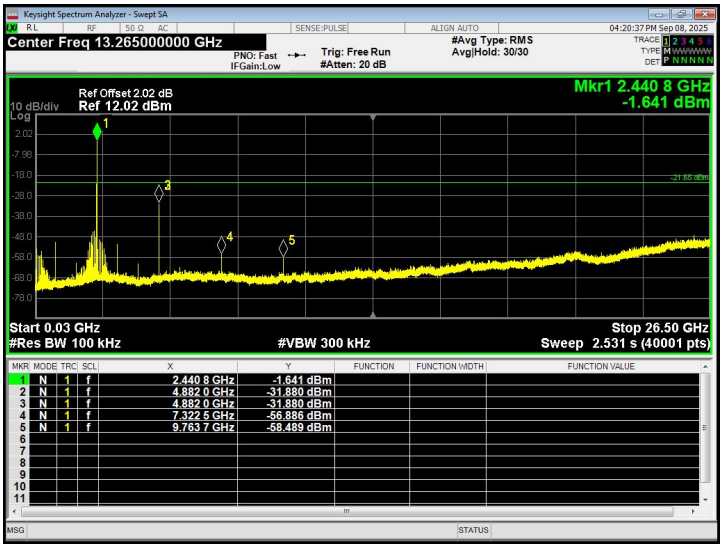
Lowest channel



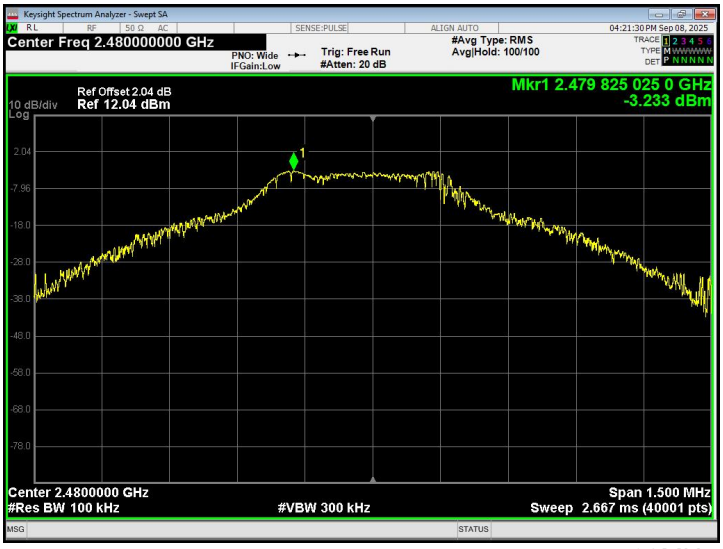


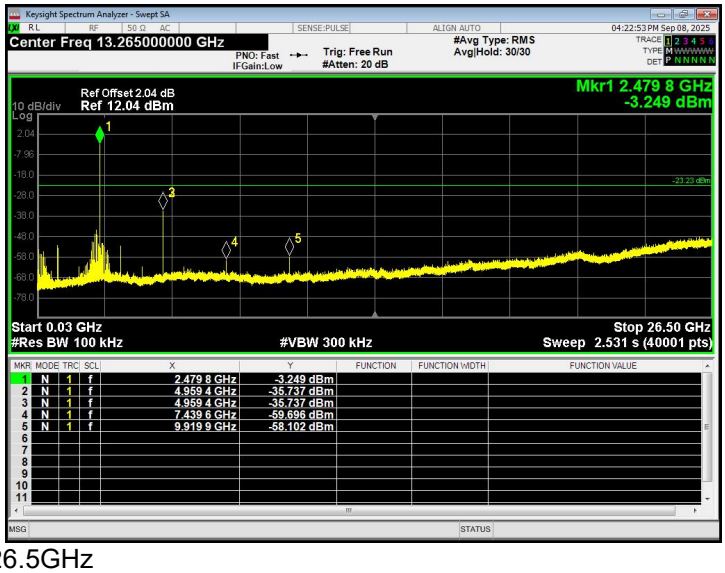
Middle channel





Highest channel

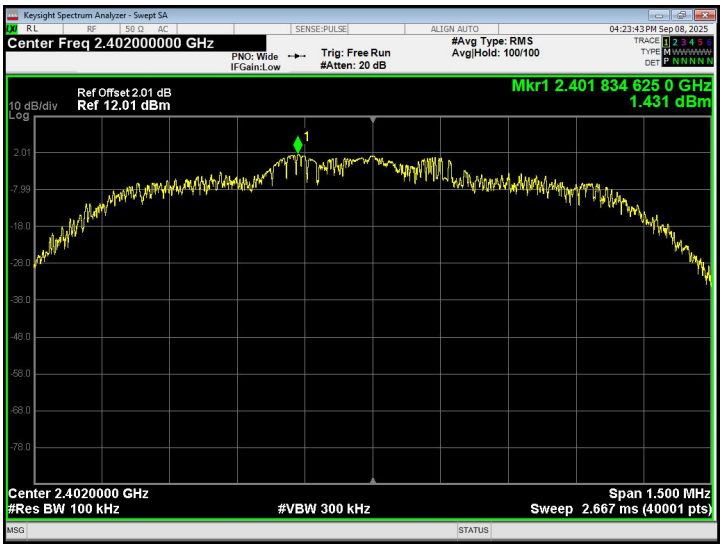


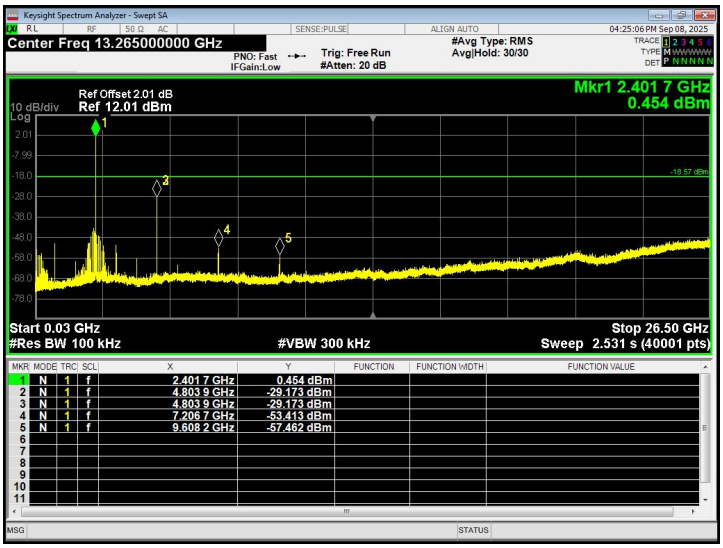


30MHz~26.5GHz

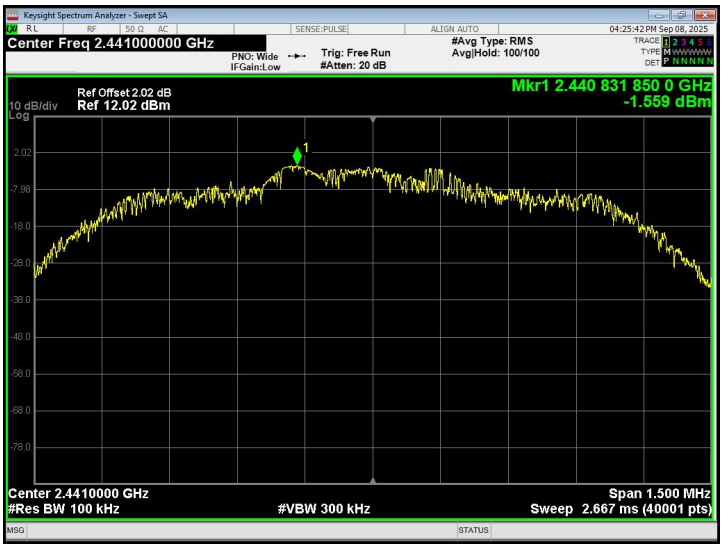
π/4-DQPSK - 2-DH1

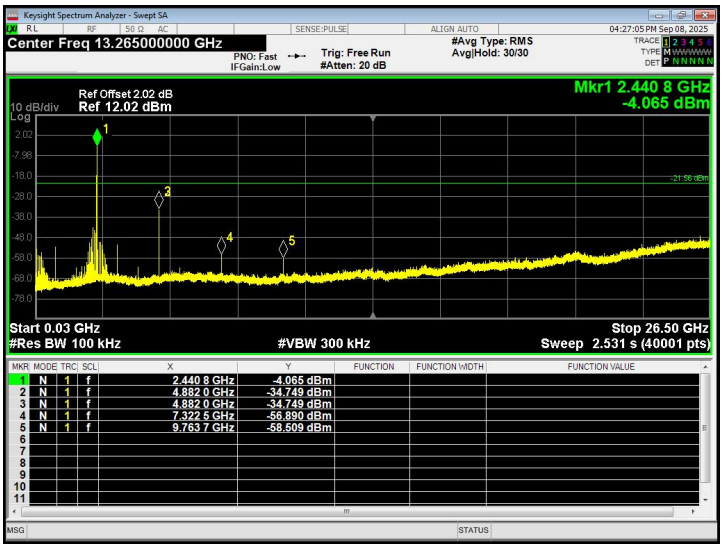
Lowest channel



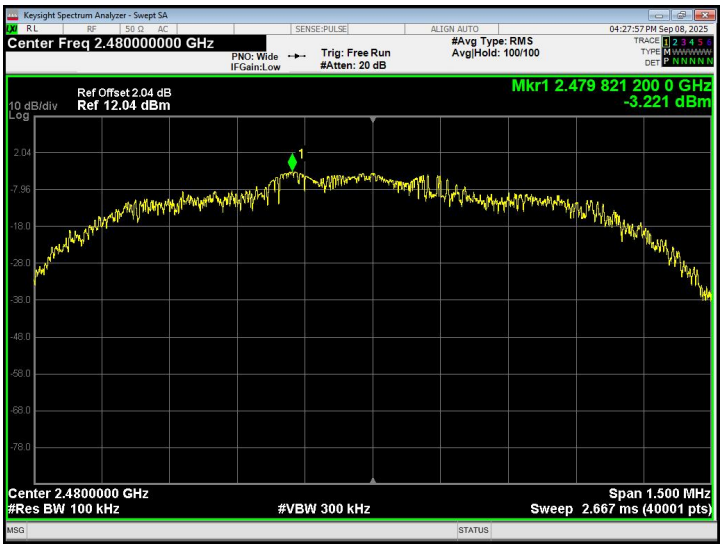


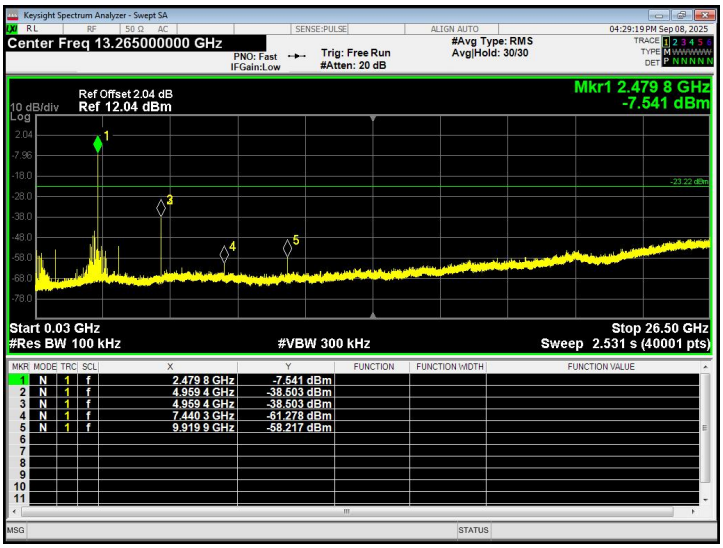
Middle channel





Highest channel

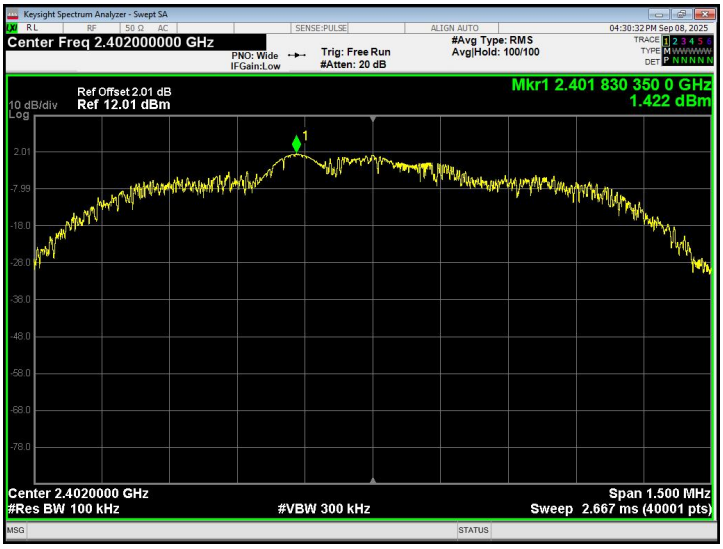


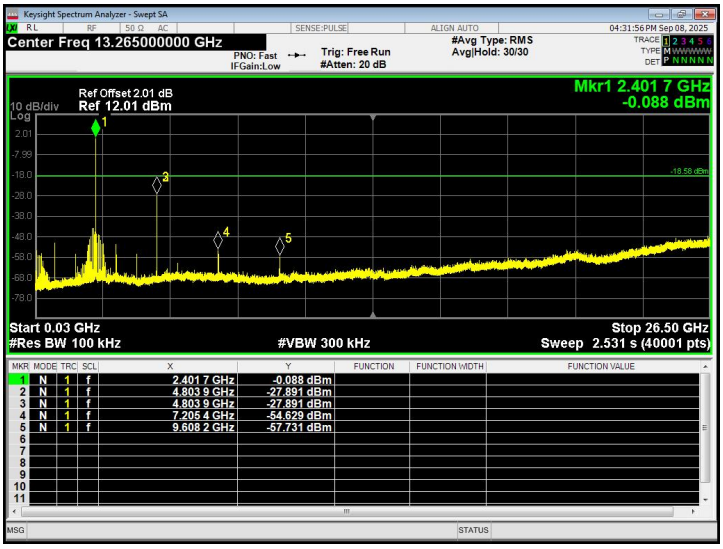


30MHz~26.5GHz

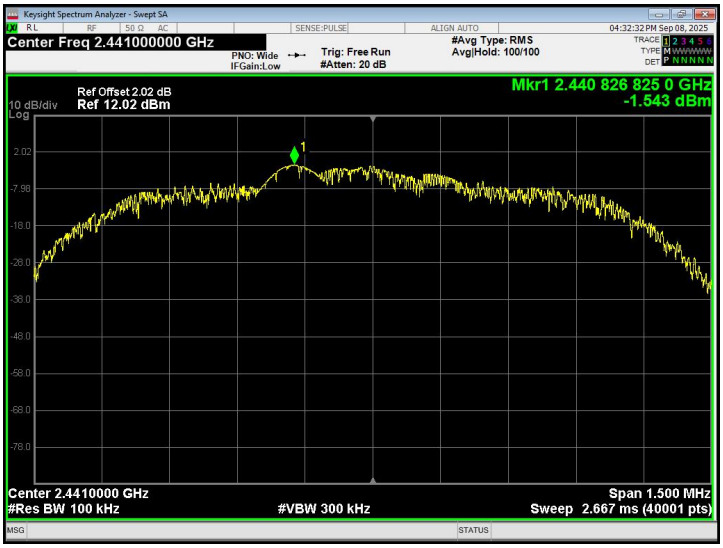
8-DPSK - 3-DH1

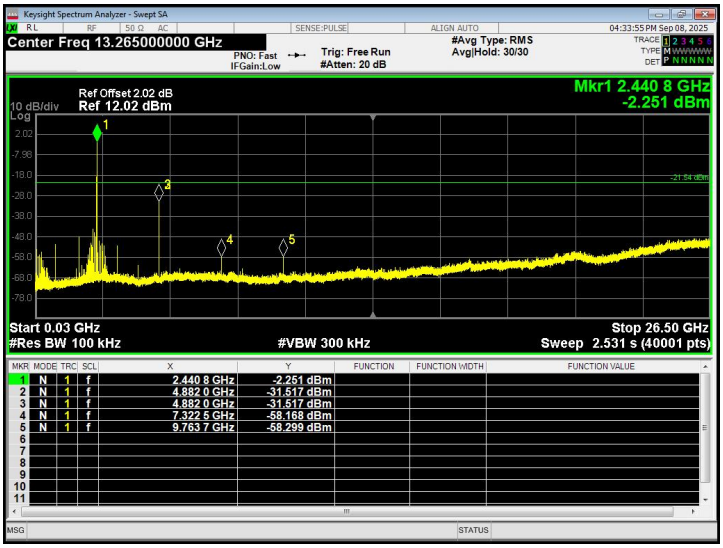
Lowest channel



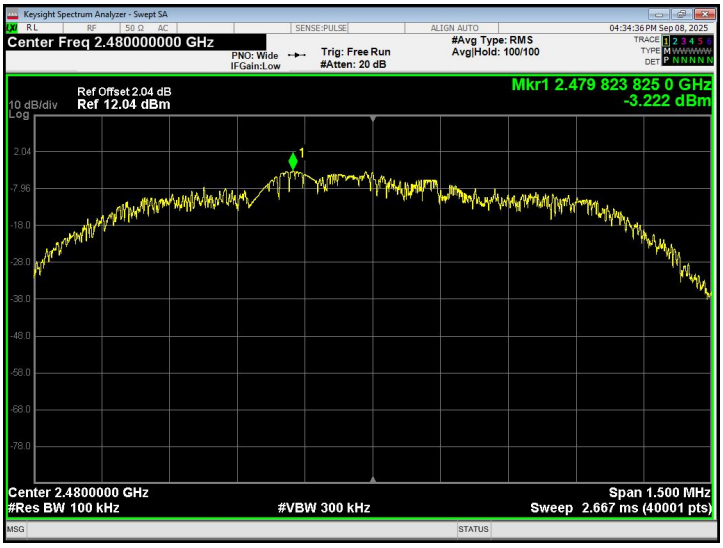


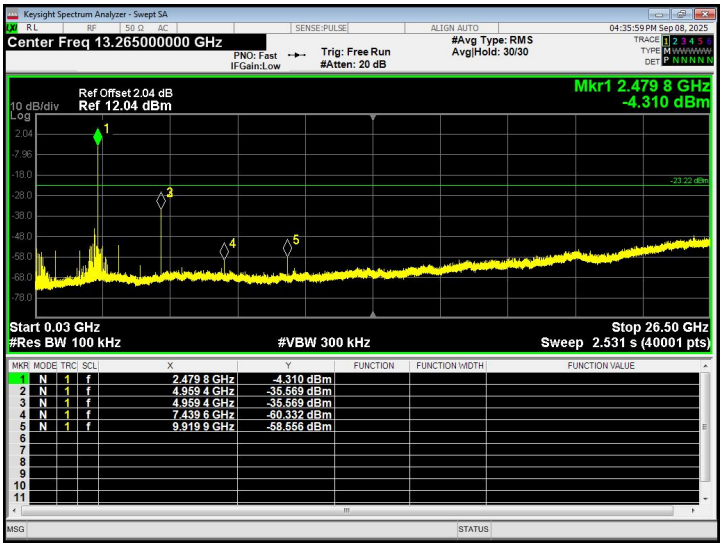
Middle channel





Highest channel

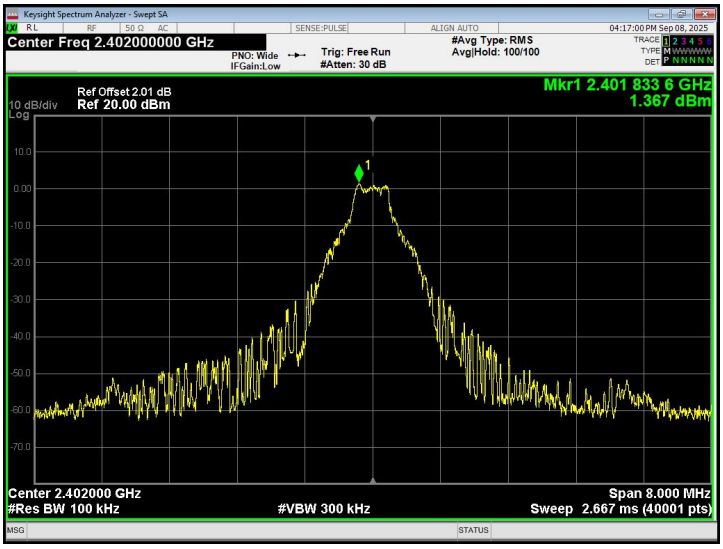


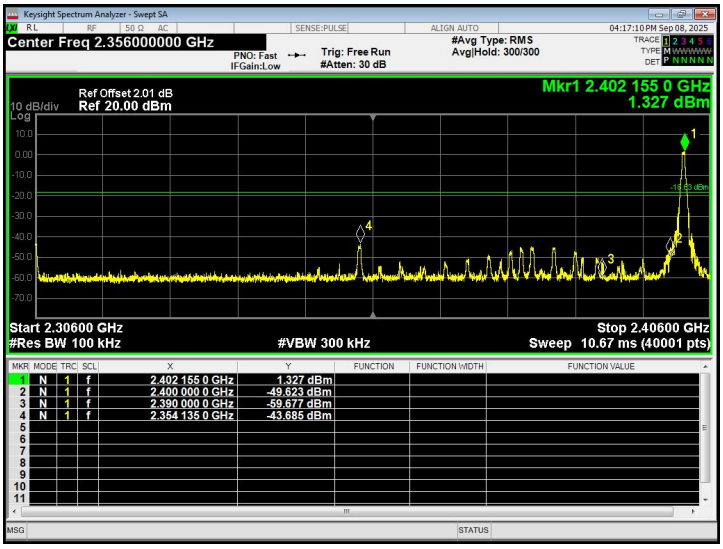
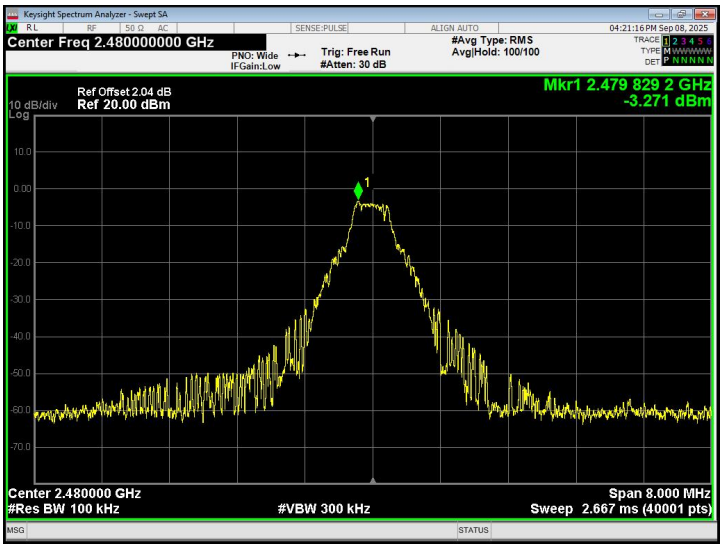
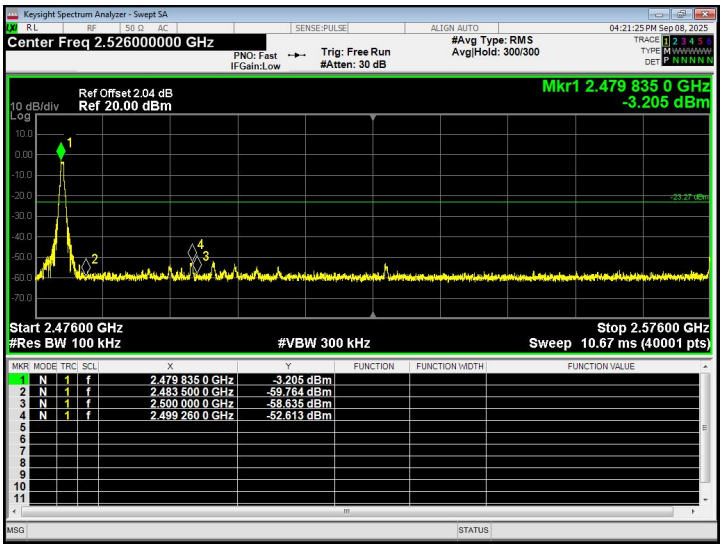


30MHz~26.5GHz

GFSK - 1-DH1

No-hopping Band edge-left side





No-hopping Band edge-right side