

TEST REPORT

Reference No...... : WTF24D09209687W002
FCC ID : 2AYBO-SPPA200BT
Applicant..... : JVCKENWOOD USA Corporation
Address..... : 4001 Worsham Ave, Long Beach, California, 90808, United States
Manufacturer : Guangdong LEIYON Intelligence Technology Corp.
Address..... : BBK Road of Wusha, Changan, Dongguan, Guangdong, China
Product..... : Party Speaker
Model(s) : SP-PA200BT
Standards..... : FCC 47CFR Part 15.247
Date of Receipt sample : 2024-11-01
Date of Test : 2024-11-01 to 2024-11-21
Date of Issue..... : 2025-04-25
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF24D09209687W002	2024-11-01	2024-11-01 to 2024-11-21	2025-04-25	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Party Speaker
Model(s):	SP-PA200BT
Model Description:	N/A
Test Sample No.:	1-1/1
Bluetooth Version:	V5.3
Hardware Version:	BX0670_BP10_V1.2
Software Version:	SP-PA200BT

4.2 Details of E.U.T.

Operation Frequency:	2402~2480MHz
Max. RF output power:	5.21dBm
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna installation:	PCB printed antenna
Antenna Gain:	3.38dBi

Note:

#: The antenna gain is provided by the manufacturer, and the manufacturer should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings:	Input: DC 15V 3.2A
Battery:	7.4V 3600mAh 26.64Wh
Adapter:	Model: QX72W150320UL Input: 100-240V ~ 50/60Hz 1.5A Output: 15.0V===3.2A 48.0W Manufacturer: Shenzhen QI Xin Electronics Co., Ltd

4.3 Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

4.4 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests; the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting	2402MHz	2441MHz	2480MHz

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d)	PASS
Conducted Spurious emissions	15.247(d)	PASS
Band edge	15.247(d) 15.205(a)	PASS
Conducted Emission	15.207	PASS
20 dB Bandwidth and 99% Bandwidth	15.247(a)(1)	PASS
Maximum Peak Output Power	15.247(b)(1)	PASS
Frequency Separation	15.247(a)(1)	PASS
Number of Hopping Frequency	15.247(a)(1)(iii)	PASS
Dwell time	15.247(a)(1)(iii)	PASS
Antenna Requirement	15.203	Complies
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

6 Equipment Used during Test

6.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
Conducted Emissions 1#						
1	EMI Test Receiver	R&S	ESCI	100947	2024-07-18	2025-07-17
2	LISN	R&S	ENV216	100115	2024-07-18	2025-07-17
3	Cable	Top	TYPE16(3.5M)	-	2024-07-18	2025-07-17
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2024-04-22	2025-04-21
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable	Top	TYPE16(13M)	-	2024-04-22	2025-04-21
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2024-01-23	2025-01-22
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2024-04-22	2025-04-21
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2024-07-18	2025-07-17
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04 2024-11-04	2024-11-03 2025-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2024-04-27	2025-04-26
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21
RF Conducted Testing						
1	Spectrum Analyzer	R&S	FSP40	100501	2024-07-18	2025-07-17
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-07-18	2025-07-17

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 4.99 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
Dwell time	1.0%
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

7 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207
Test Method: ANSI C63.10:2013
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46
0.5 to 5	56	46
5 to 30	60	50

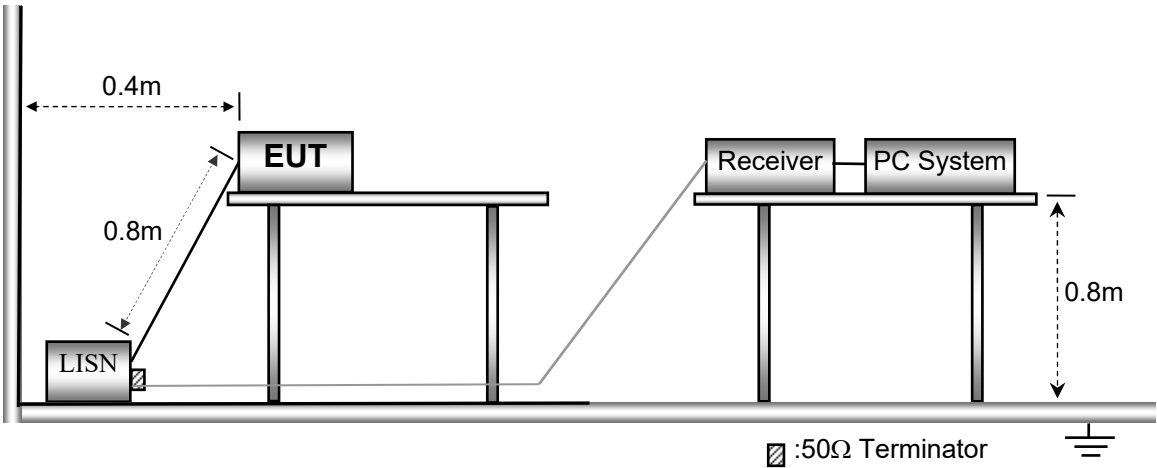
7.1 E.U.T. Operation

Operating Environment:
Temperature: 25.8 °C
Humidity: 41.7 % RH
Atmospheric Pressure: 101.2kPa
EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10: 2013.



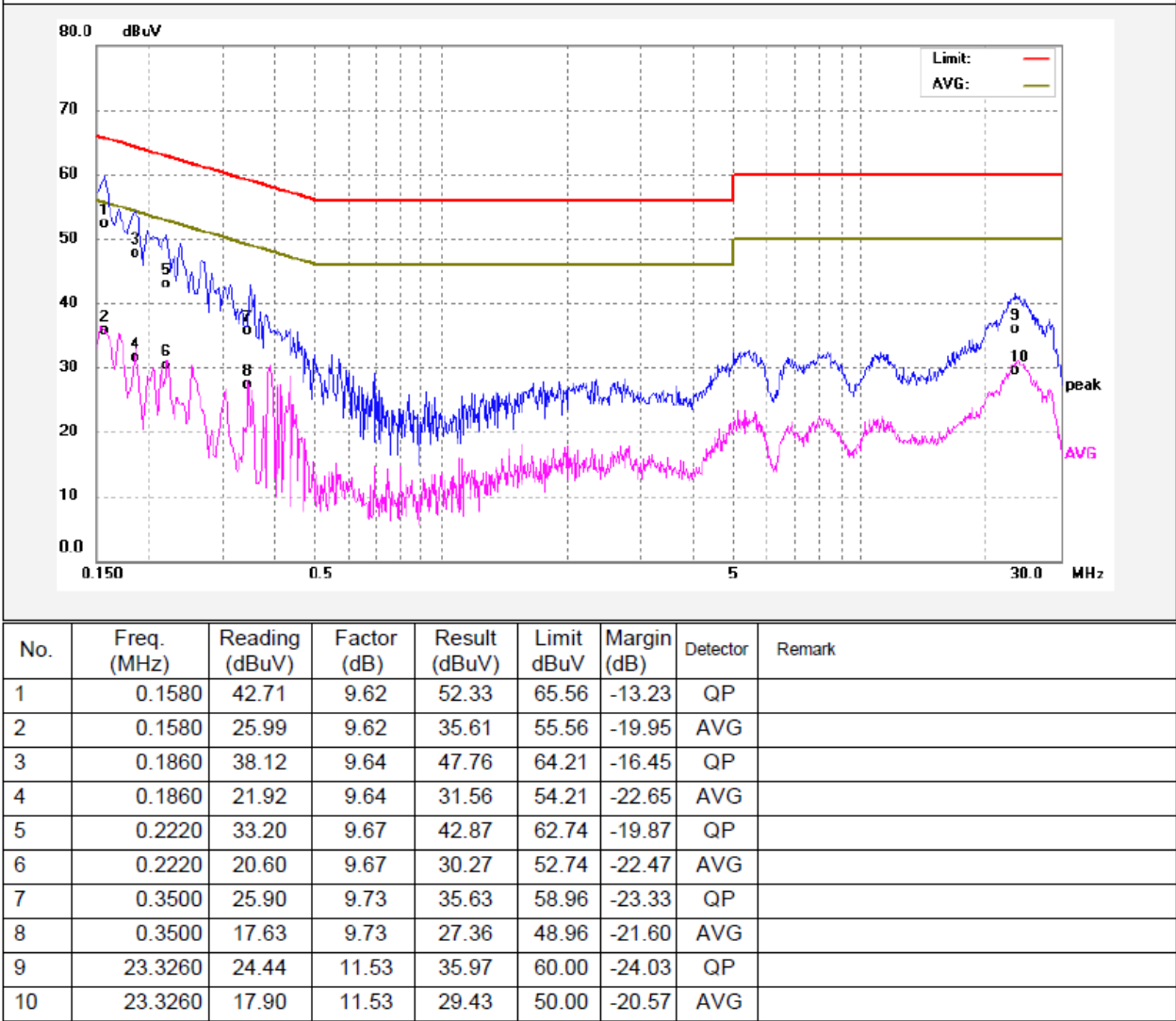
7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

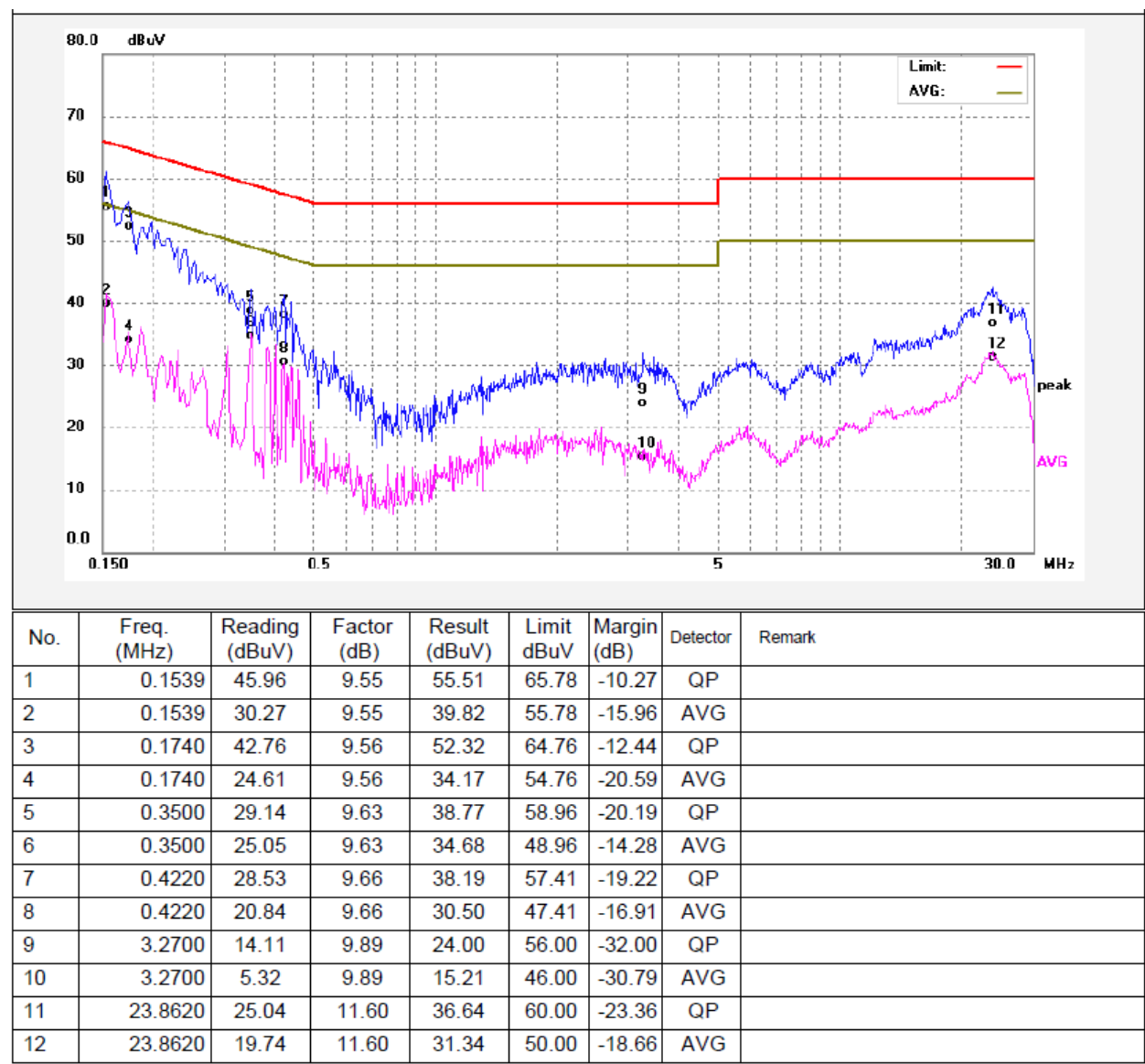
7.4 Conducted Emission Test Result

Remark: only the worst data (GFSK modulation Low channel mode) were reported

Live line:



Neutral line:



8 Radiated Spurious Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.205 &15.209 & 15.247

Test Method: ANSI C63.10: 2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	$10000 * 2400/F(kHz)$	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	$100 * 24000/F(kHz)$	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

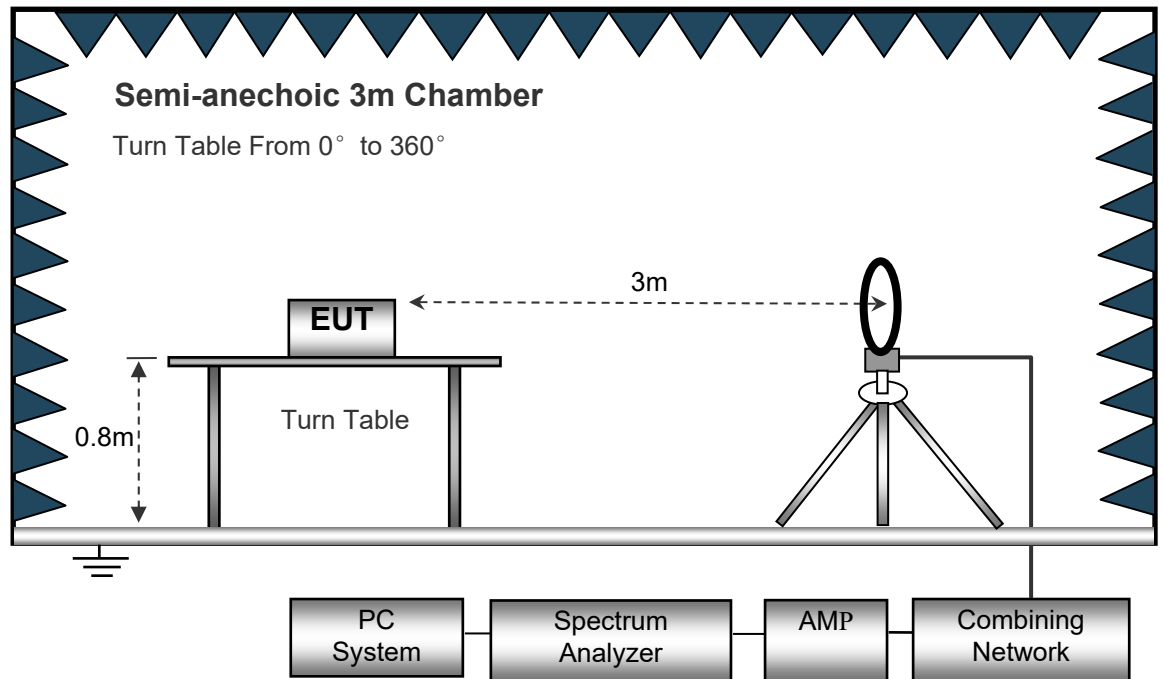
EUT Operation :

The test was performed in Transmitting mode, the worst test data were shown in the report.

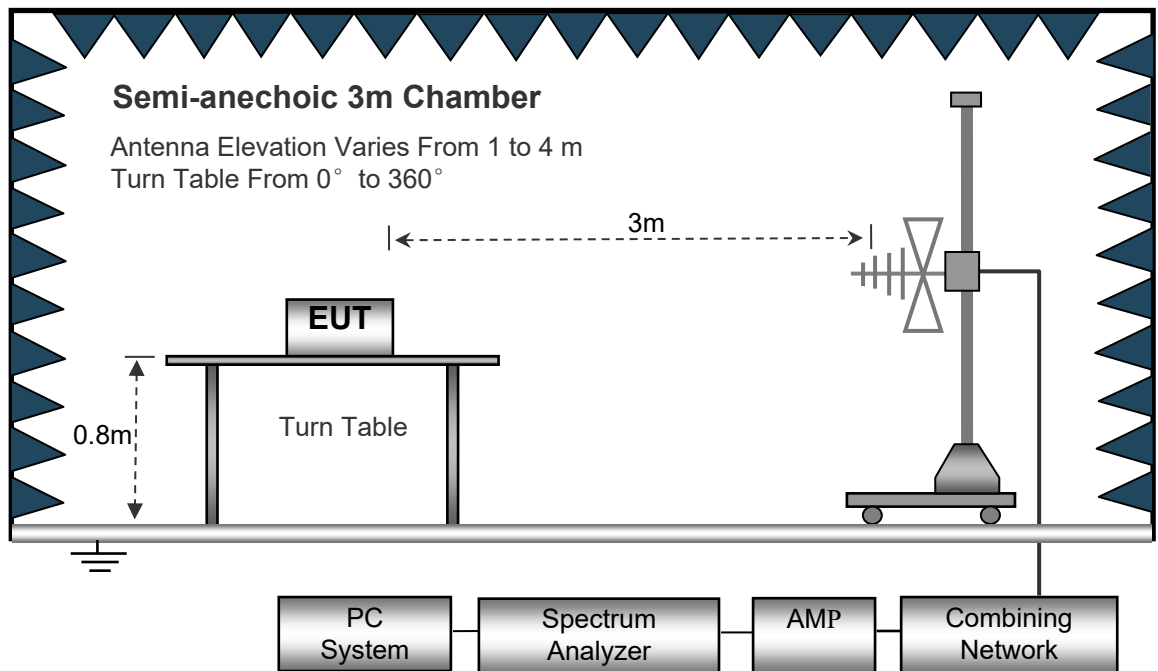
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

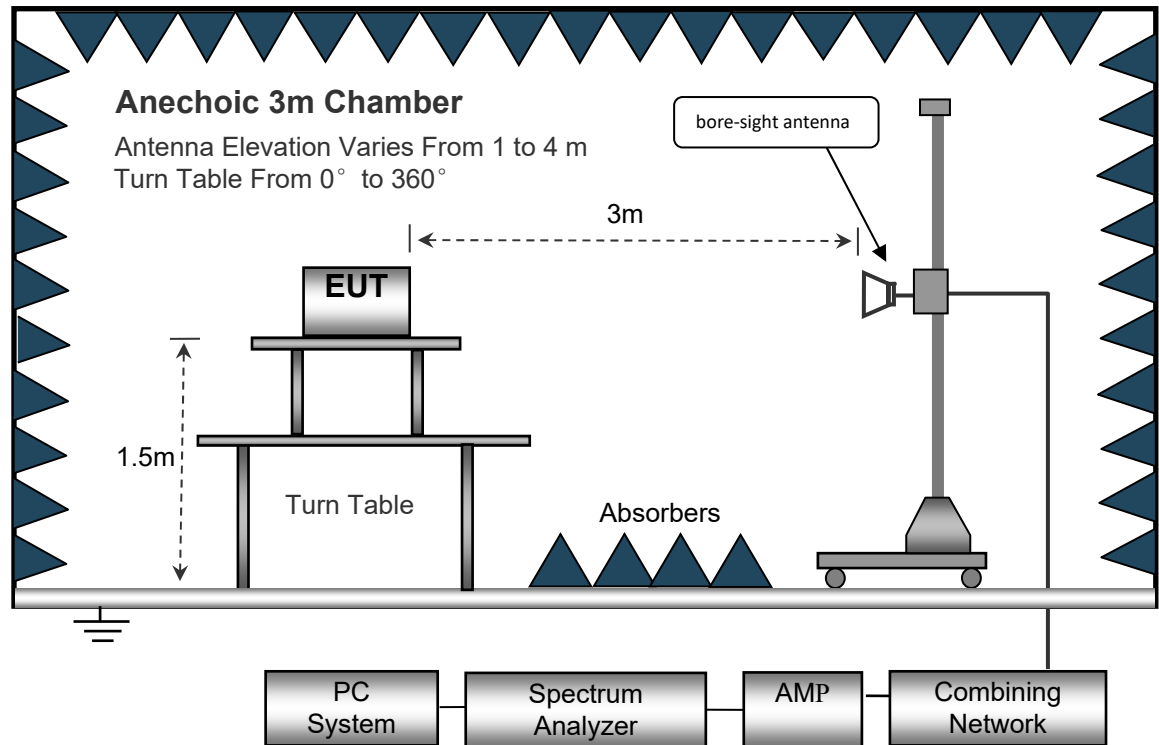
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

Test Frequency: 9kHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel 2402MHz									
273.46	42.11	QP	182	1.2	H	-13.22	28.89	46.00	-17.11
273.46	46.30	QP	315	1.4	V	-13.22	33.08	46.00	-12.92
4804.00	50.90	PK	41	1.9	V	-1.06	49.84	74.00	-24.16
4804.00	40.66	Ave	41	1.9	V	-1.06	39.60	54.00	-14.40
7206.00	52.27	PK	186	1.7	H	1.32	53.59	74.00	-20.41
7206.00	41.52	Ave	186	1.7	H	1.32	42.84	54.00	-11.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Middle Channel 2441MHz									
273.46	40.63	QP	25	1.9	H	-13.22	27.41	46.00	-18.59
273.46	45.97	QP	101	1.4	V	-13.22	32.75	46.00	-13.25
4882.00	50.54	PK	283	1.7	V	-0.62	49.92	74.00	-24.08
4882.00	39.75	Ave	283	1.7	V	-0.62	39.13	54.00	-14.87
7323.00	51.78	PK	181	2.0	H	2.21	53.99	74.00	-20.01
7323.00	41.22	Ave	181	2.0	H	2.21	43.43	54.00	-10.57

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK High Channel 2480MHz									
273.46	40.05	QP	329	1.8	H	-13.22	26.83	46.00	-19.17
273.46	45.64	QP	110	1.9	V	-13.22	32.42	46.00	-13.58
4960.00	49.92	PK	45	1.1	V	-0.24	49.68	74.00	-24.32
4960.00	39.25	Ave	45	1.1	V	-0.24	39.01	54.00	-14.99
7440.00	50.52	PK	38	1.9	H	2.84	53.36	74.00	-20.64
7440.00	39.81	Ave	38	1.9	H	2.84	42.65	54.00	-11.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
π/4 DQPSK Low Channel 2402MHz									
273.46	40.87	QP	112	1.3	H	-13.22	27.65	46.00	-18.35
273.46	46.66	QP	23	1.4	V	-13.22	33.44	46.00	-12.56
4804.00	51.59	PK	158	1.9	V	-1.06	50.53	74.00	-23.47
4804.00	37.52	Ave	158	1.9	V	-1.06	36.46	54.00	-17.54
7206.00	51.03	PK	269	1.5	H	1.33	52.36	74.00	-21.64
7206.00	38.67	Ave	269	1.5	H	1.33	40.00	54.00	-14.00

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
π/4 DQPSK Middle Channel 2441MHz									
273.46	41.61	QP	334	1.9	H	-13.22	28.39	46.00	-17.61
273.46	45.34	QP	4	1.6	V	-13.22	32.12	46.00	-13.88
4882.00	51.92	PK	86	1.7	V	-0.62	51.30	74.00	-22.70
4882.00	37.10	Ave	86	1.7	V	-0.62	36.48	54.00	-17.52
7323.00	51.65	PK	240	1.2	H	2.21	53.86	74.00	-20.14
7323.00	38.35	Ave	240	1.2	H	2.21	40.56	54.00	-13.44

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
π/4 DQPSK High Channel 2480MHz									
273.46	39.50	QP	194	1.1	H	-13.22	26.28	46.00	-19.72
273.46	47.63	QP	227	1.4	V	-13.22	34.41	46.00	-11.59
4960.00	53.45	PK	5	1.7	V	-0.24	53.21	74.00	-20.79
4960.00	35.72	Ave	5	1.7	V	-0.24	35.48	54.00	-18.52
7440.00	50.52	PK	243	1.1	H	2.84	53.36	74.00	-20.64
7440.00	37.28	Ave	243	1.1	H	2.84	40.12	54.00	-13.88

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
8DPSK Low Channel 2402MHz									
273.46	38.36	QP	72	1.3	H	-13.22	25.14	46.00	-20.86
273.46	47.41	QP	62	1.1	V	-13.22	34.19	46.00	-11.81
4804.00	52.16	PK	359	1.9	V	-1.06	51.10	74.00	-22.90
4804.00	34.51	Ave	359	1.9	V	-1.06	33.45	54.00	-20.55
7206.00	49.35	PK	152	1.4	H	1.33	50.68	74.00	-23.32
7206.00	36.93	Ave	152	1.4	H	1.33	38.26	54.00	-15.74

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
8DPSK Middle Channel 2441MHz									
273.46	37.72	QP	355	1.8	H	-13.22	24.50	46.00	-21.50
273.46	46.32	QP	90	1.2	V	-13.22	33.10	46.00	-12.90
4882.00	51.09	PK	303	1.8	V	-0.62	50.47	74.00	-23.53
4882.00	33.74	Ave	303	1.8	V	-0.62	33.12	54.00	-20.88
7323.00	48.54	PK	259	1.4	H	2.21	50.75	74.00	-23.25
7323.00	35.91	Ave	259	1.4	H	2.21	38.12	54.00	-15.88

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
8DPSK High Channel 2480MHz									
273.46	37.28	QP	265	1.1	H	-13.22	24.06	46.00	-21.94
273.46	45.45	QP	165	1.7	V	-13.22	32.23	46.00	-13.77
4960.00	51.65	PK	198	1.9	V	-0.24	51.41	74.00	-22.59
4960.00	33.89	Ave	198	1.9	V	-0.24	33.65	54.00	-20.35
7440.00	49.13	PK	310	1.6	H	2.84	51.97	74.00	-22.03
7440.00	35.92	Ave	310	1.6	H	2.84	38.76	54.00	-15.24

Radiated Restricted Band Emission

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK Low Channel 2402MHz									
2347.23	45.68	PK	321	1.6	V	-13.26	32.42	74.00	-41.58
2347.23	37.32	Ave	321	1.6	V	-13.26	24.06	54.00	-29.94
2354.82	44.75	PK	18	1.9	H	-13.02	31.73	74.00	-42.27
2354.82	36.43	Ave	18	1.9	H	-13.02	23.41	54.00	-30.59
2486.82	42.70	PK	269	1.9	V	-13.20	29.50	74.00	-44.50
2486.82	37.44	Ave	269	1.9	V	-13.20	24.24	54.00	-29.76

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
GFSK High Channel 2480MHz									
2324.28	45.18	PK	259	2.0	V	-13.19	31.99	74.00	-42.01
2324.28	36.09	Ave	259	2.0	V	-13.19	22.90	54.00	-31.10
2362.77	43.22	PK	60	1.5	H	-13.14	30.08	74.00	-43.92
2362.77	34.82	Ave	60	1.5	H	-13.14	21.68	54.00	-32.32
2490.28	41.98	PK	116	1.3	V	-13.08	28.90	74.00	-45.10
2490.28	36.15	Ave	116	1.3	V	-13.08	23.07	54.00	-30.93

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
π/4 DQPSK Low Channel 2402MHz									
2318.93	44.49	PK	222	1.3	V	-13.19	31.30	74.00	-42.70
2318.93	37.57	Ave	222	1.3	V	-13.19	24.38	54.00	-29.62
2366.51	40.70	PK	359	1.1	H	-13.14	27.56	74.00	-46.44
2366.51	33.49	Ave	359	1.1	H	-13.14	20.35	54.00	-33.65
2486.58	43.17	PK	205	1.9	V	-13.08	30.09	74.00	-43.91
2486.58	35.94	Ave	205	1.9	V	-13.08	22.86	54.00	-31.14

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
π/4 DQPSK High Channel 2480MHz									
2314.45	42.60	PK	343	1.5	V	-13.19	29.41	74.00	-44.59
2314.45	35.66	Ave	343	1.5	V	-13.19	22.47	54.00	-31.53
2368.45	39.39	PK	197	1.8	H	-13.14	26.25	74.00	-47.75
2368.45	33.94	Ave	197	1.8	H	-13.14	20.80	54.00	-33.20
2491.50	40.39	PK	347	1.8	V	-13.08	27.31	74.00	-46.69
2491.50	33.89	Ave	347	1.8	V	-13.08	20.81	54.00	-33.19

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
8DPSK Low Channel 2402MHz									
2314.72	41.13	PK	291	1.0	V	-13.19	27.94	74.00	-46.06
2314.72	35.53	Ave	291	1.0	V	-13.19	22.34	54.00	-31.66
2376.00	38.61	PK	326	1.4	H	-13.14	25.47	74.00	-48.53
2376.00	32.72	Ave	326	1.4	H	-13.14	19.58	54.00	-34.42
2492.25	39.38	PK	310	1.8	V	-13.08	26.30	74.00	-47.70
2492.25	33.73	Ave	310	1.8	V	-13.08	20.65	54.00	-33.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
8DPSK High Channel 2480MHz									
2331.32	39.36	PK	66	1.8	V	-13.19	26.17	74.00	-47.83
2331.32	34.89	Ave	66	1.8	V	-13.19	21.70	54.00	-32.30
2360.52	36.94	PK	150	1.1	H	-13.14	23.80	74.00	-50.20
2360.52	31.49	Ave	150	1.1	H	-13.14	18.35	54.00	-35.65
2484.95	37.49	PK	121	2.0	V	-13.08	24.41	74.00	-49.59
2484.95	32.86	Ave	121	2.0	V	-13.08	19.78	54.00	-34.22

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not recorded

9 Conducted Spurious Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

2. Set the spectrum analyzer:

Below 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

Above 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

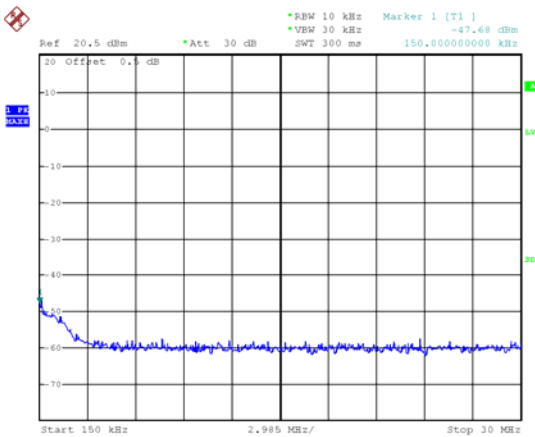
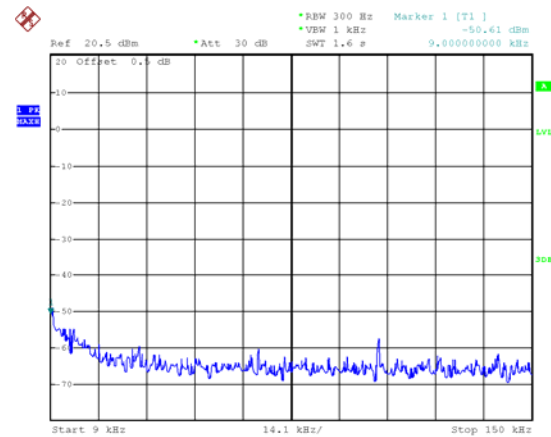
9.2 Test Result

Test plot

GFSK Low Channel

9kHz – 150kHz

150kHz – 30MHz

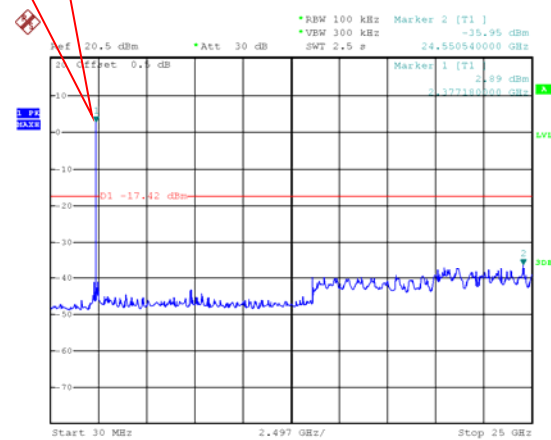


Date: 6.NOV.2024 14:45:38

Date: 6.NOV.2024 14:44:59

Fundamental

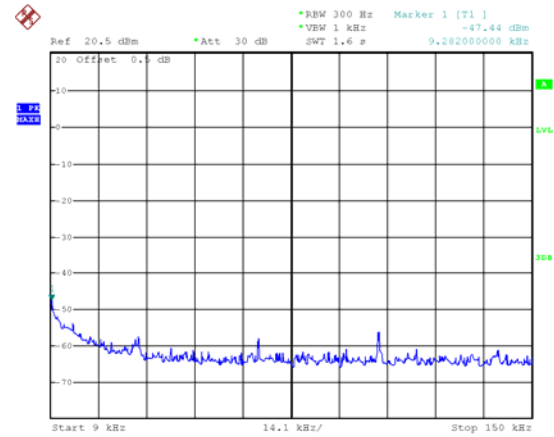
30MHz – 25GHz



Date: 8.NOV.2024 15:00:06

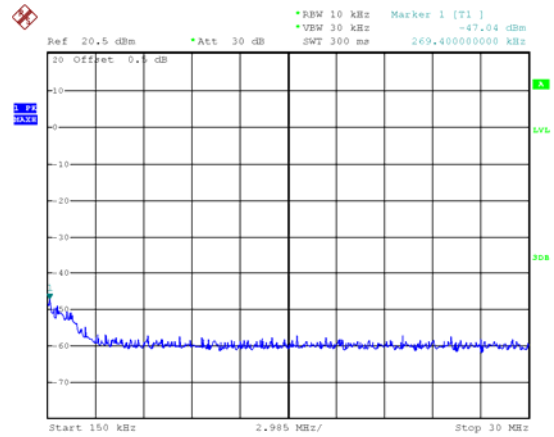
GFSK Middle Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:47:53

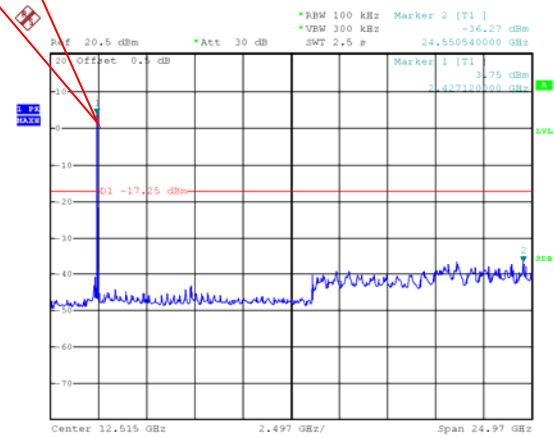
150kHz – 30MHz



Date: 6.NOV.2024 14:44:40

Fundamental

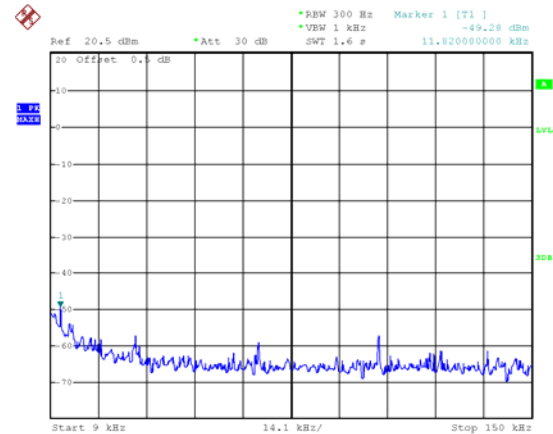
30MHz – 25GHz



Date: 8.NOV.2024 15:00:59

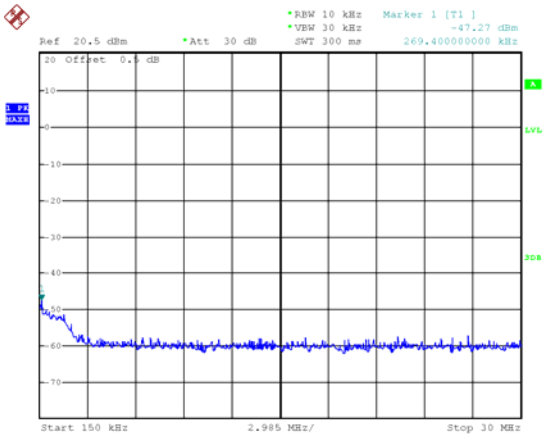
GFSK High Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:48:23

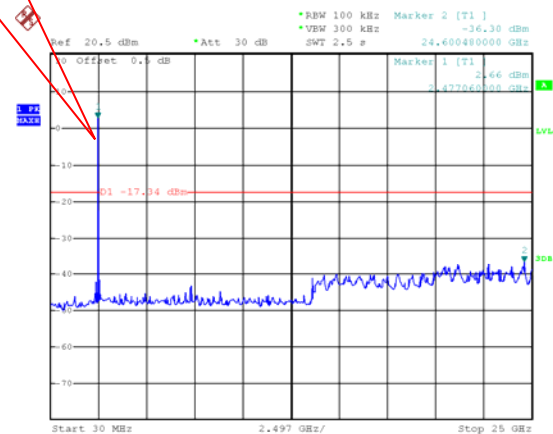
150kHz – 30MHz



Date: 6.NOV.2024 14:44:18

Fundamental

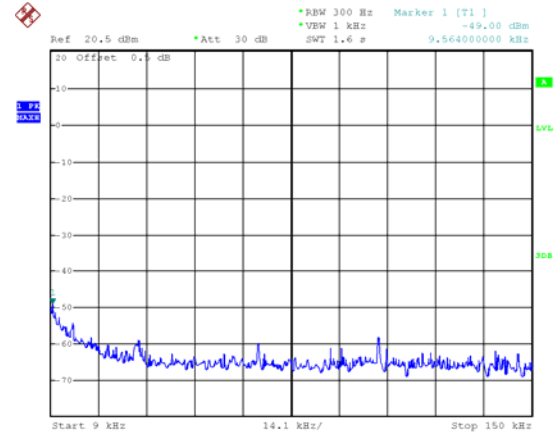
30MHz – 25GHz



Date: 8.NOV.2024 15:01:37

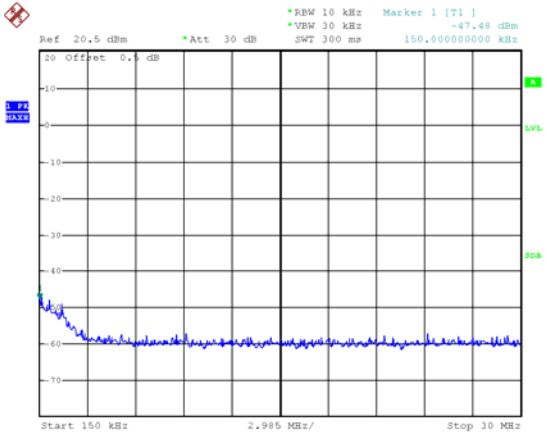
$\pi/4$ DQPSK Low Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:49:56

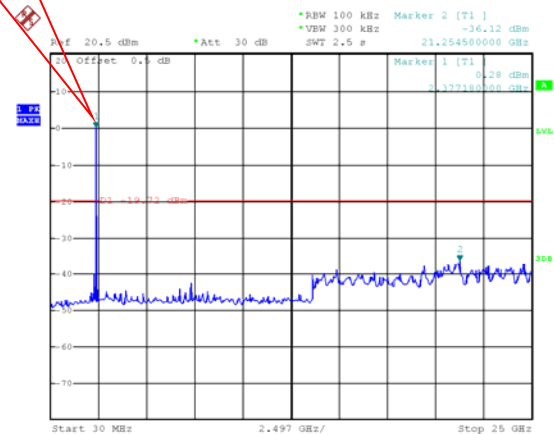
150kHz – 30MHz



Date: 6.NOV.2024 14:41:31

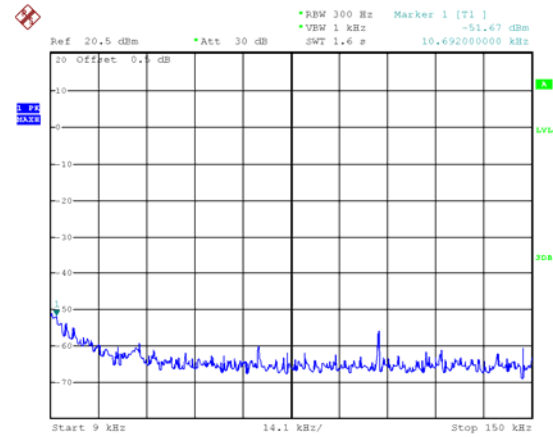
Fundamental

30MHz – 25GHz



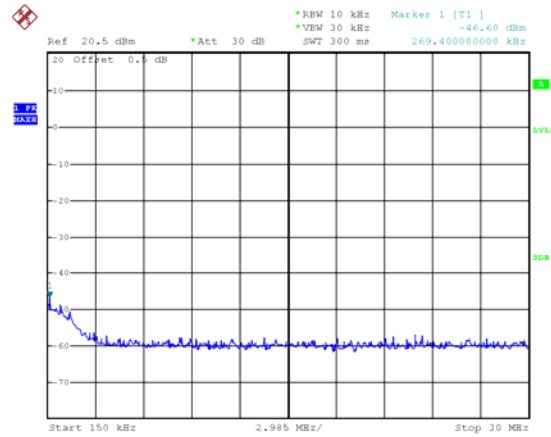
Date: 8.NOV.2024 14:54:28

$\pi/4$ DQPSK Middle Channel
9kHz – 150kHz



Date: 6.NOV.2024 14:49:25

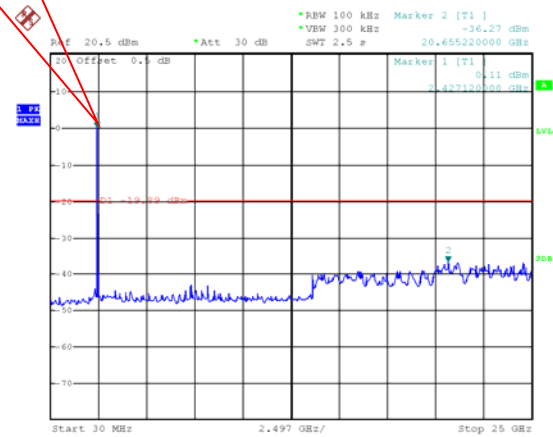
150kHz – 30MHz



Date: 6.NOV.2024 14:41:55

Fundamental

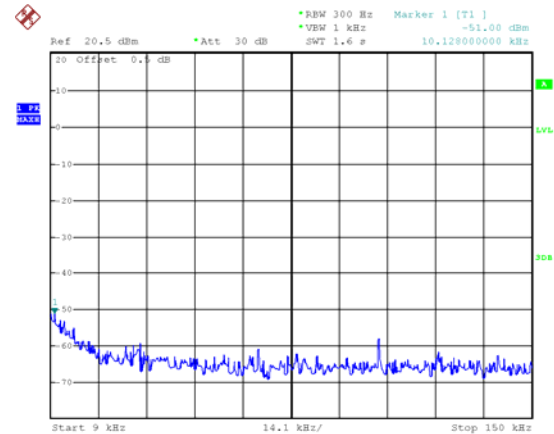
30MHz – 25GHz



Date: 8.NOV.2024 14:56:45

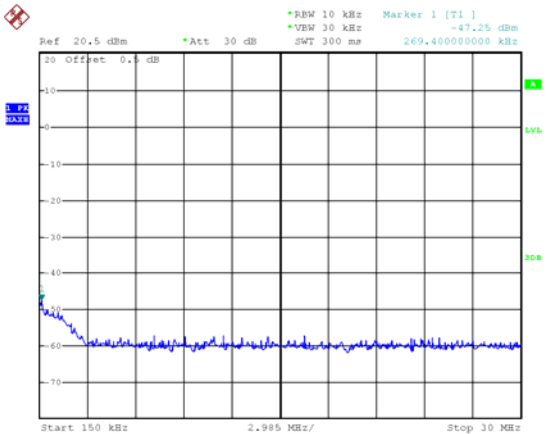
$\pi/4$ DQPSK High Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:48:50

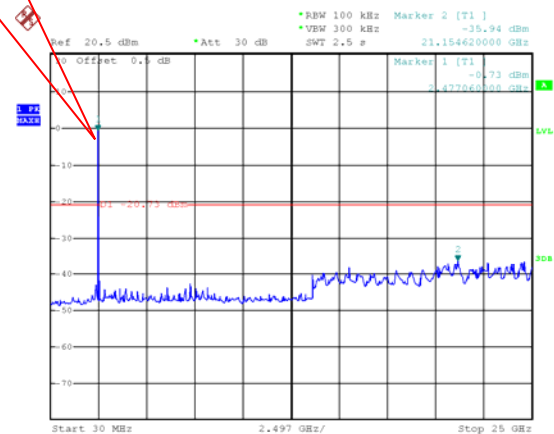
150kHz – 30MHz



Date: 6.NOV.2024 14:42:18

Fundamental

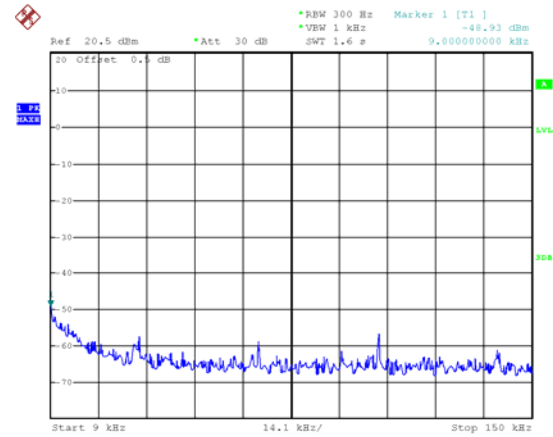
30MHz – 25GHz



Date: 8.NOV.2024 14:58:53

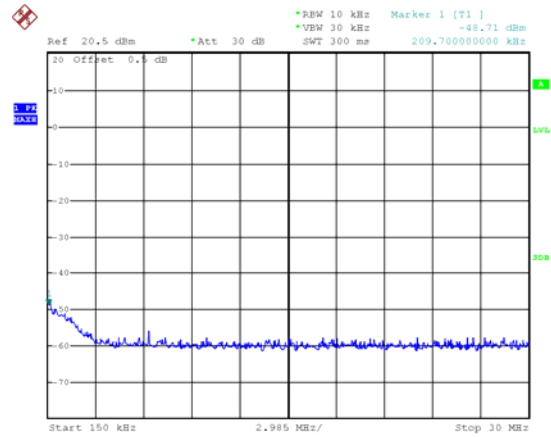
8DPSK Low Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:50:37

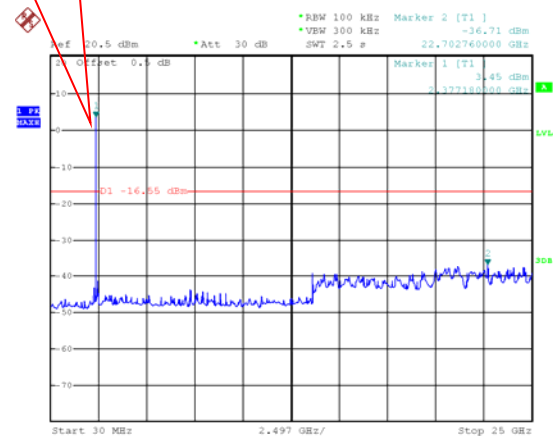
150kHz – 30MHz



Date: 6.NOV.2024 14:41:07

Fundamental

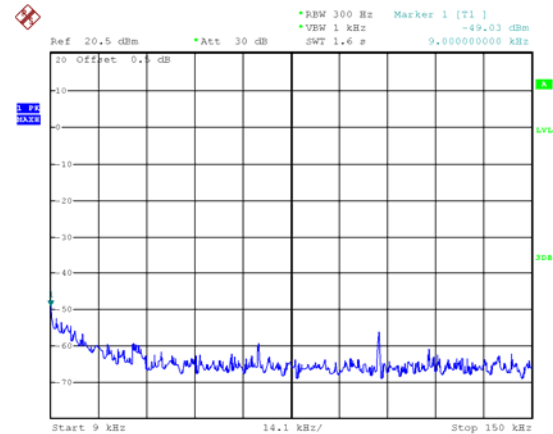
30MHz – 25GHz



Date: 8.NOV.2024 14:53:16

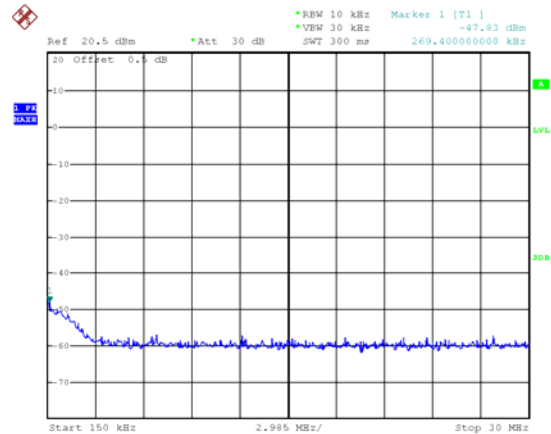
8DPSK Middle Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:51:05

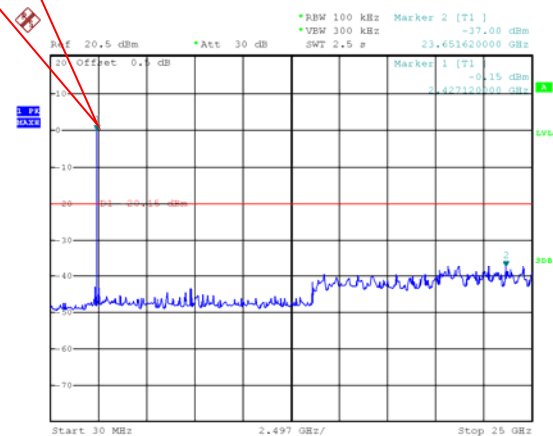
150kHz – 30MHz



Date: 6.NOV.2024 14:40:44

Fundamental

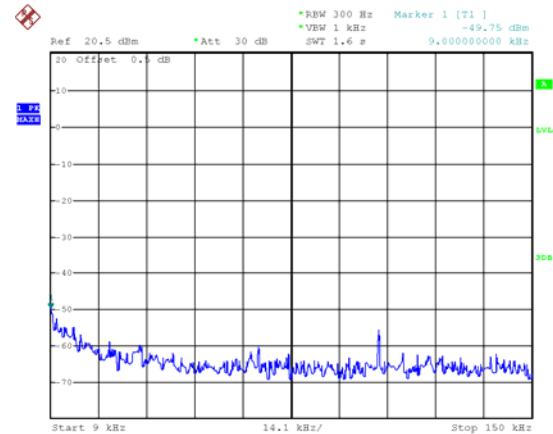
30MHz – 25GHz



Date: 8.NOV.2024 14:52:20

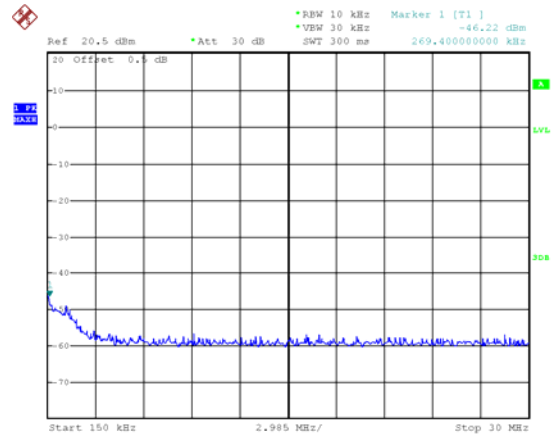
8DPSK High Channel

9kHz – 150kHz



Date: 6.NOV.2024 14:51:32

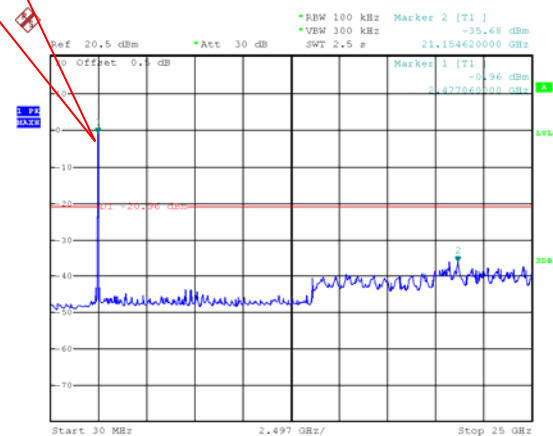
150kHz – 30MHz



Date: 6.NOV.2024 14:40:22

Fundamental

30MHz – 25GHz



Date: 8.NOV.2024 14:51:29

10 Band Edge Measurement

Test Requirement:	Section 15.247(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	ANSI C63.10: 2013
Test 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)).
Test Mode:	Transmitting

10.1 Test Procedure

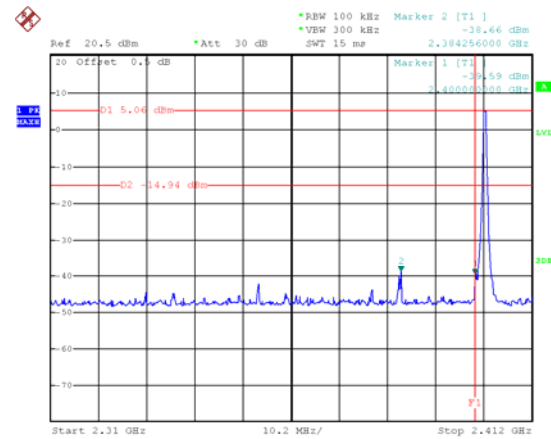
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

10.2 Test Result

Test plot

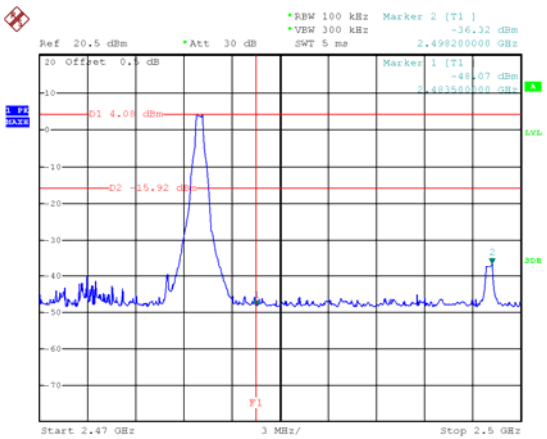
Modulation: GFSK

Transmitting Band edge-left side



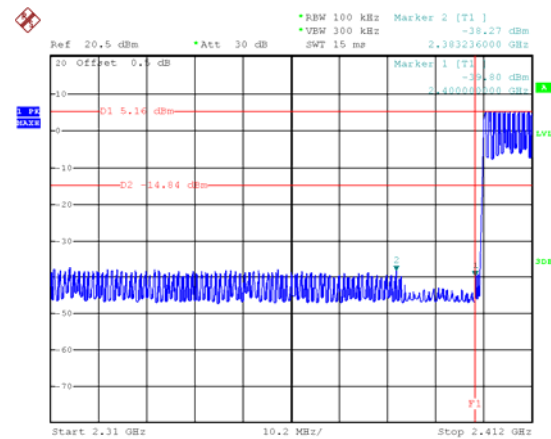
Date: 11.NOV.2024 08:46:01

Transmitting Band edge-right side



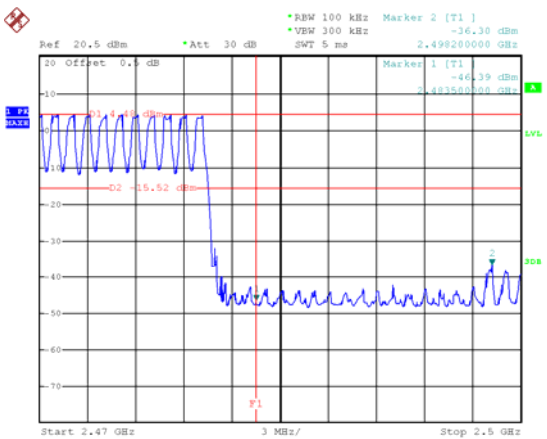
Date: 11.NOV.2024 08:47:34

Hopping Band edge-left side



Date: 11.NOV.2024 09:35:00

Hopping Band edge-right side

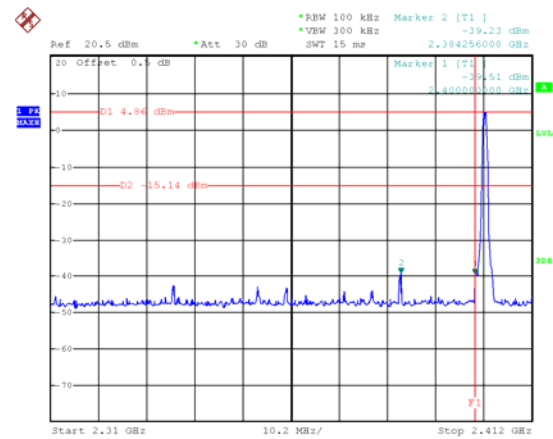


Date: 11.NOV.2024 09:27:23

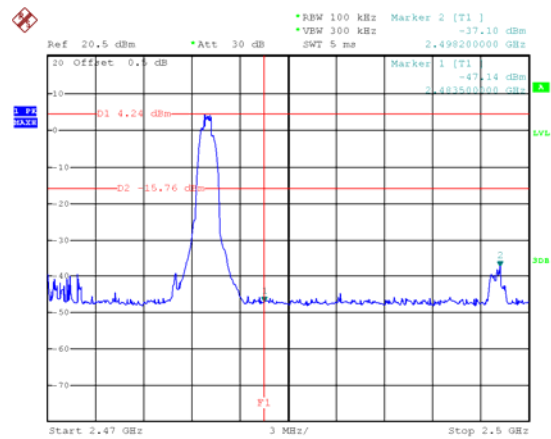
Modulation: $\pi/4$ DQPSK

Transmitting Band edge-left side

Transmitting Band edge-right side



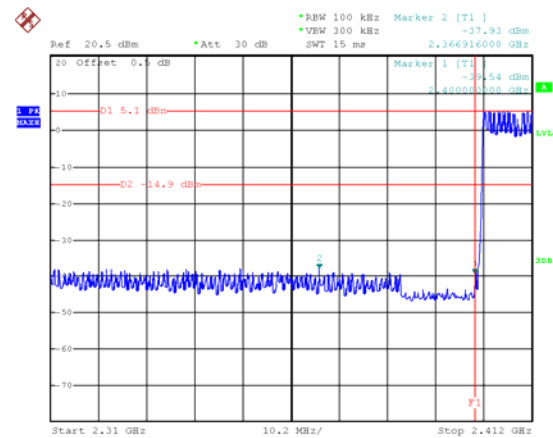
Date: 11.NOV.2024 08:48:53



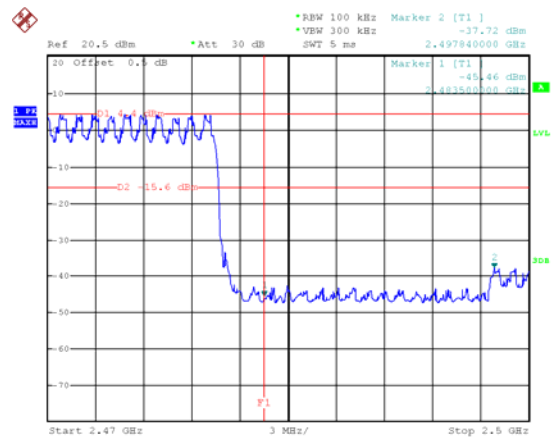
Date: 11.NOV.2024 09:24:36

Hopping Band edge-left side

Hopping Band edge-right side



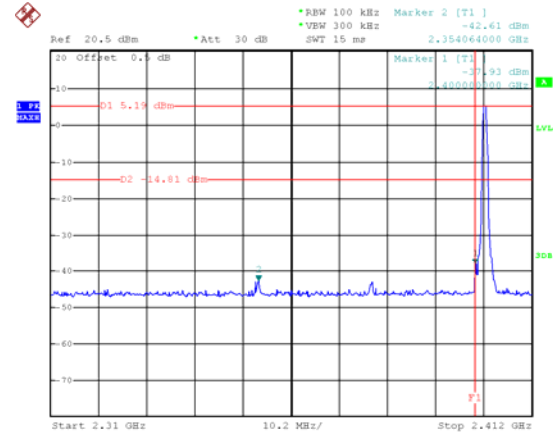
Date: 11.NOV.2024 09:05:06



Date: 11.NOV.2024 09:20:39

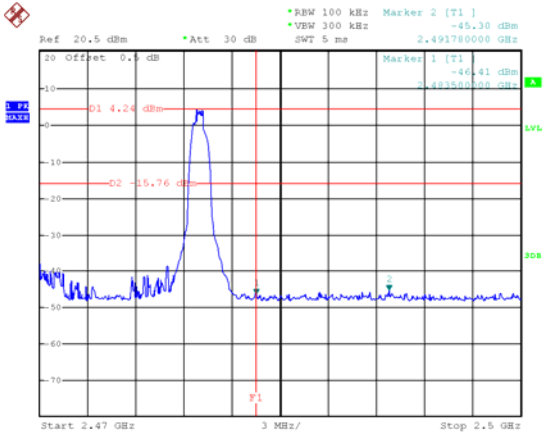
Modulation: 8DPSK

Transmitting Band edge-left side



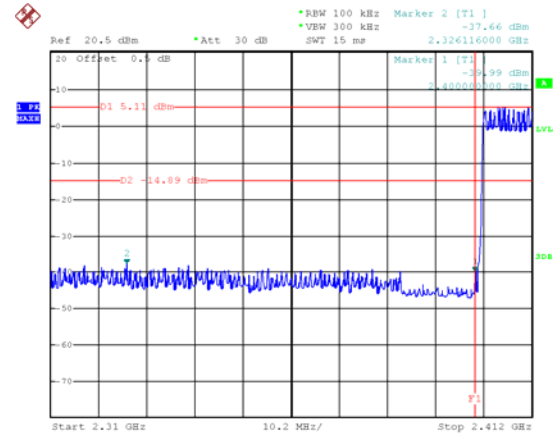
Date: 11.NOV.2024 10:15:42

Transmitting Band edge-right side



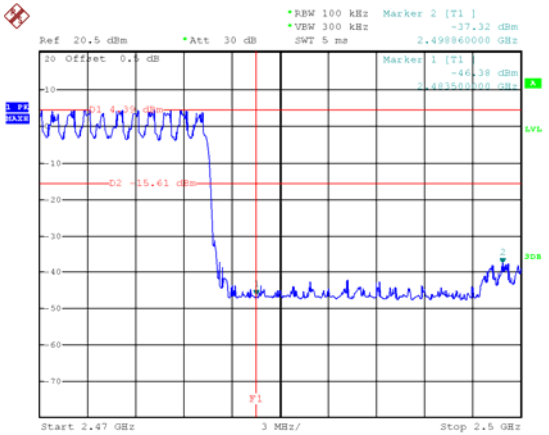
Date: 11.NOV.2024 09:57:42

Hopping Band edge-left side



Date: 11.NOV.2024 09:46:09

Hopping Band edge-right side



Date: 11.NOV.2024 09:55:03

11 20 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Mode: Test in fixing operating frequency at low, Middle, high channel.

11.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 30kHz, VBW = 100kHz

11.2 Test Result

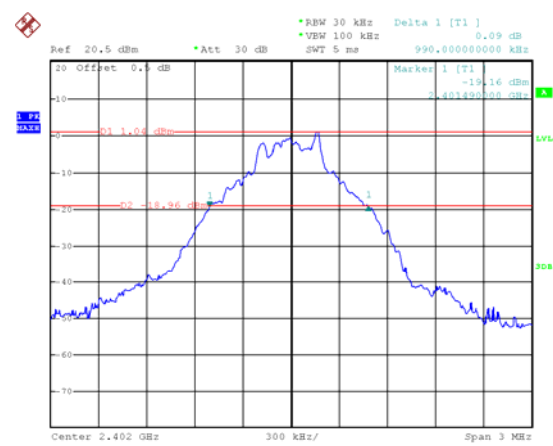
Modulation	Test Channel	20 dB Bandwidth MHz	99% Bandwidth MHz
GFSK	Low	0.990	0.912
GFSK	Middle	0.990	0.912
GFSK	High	0.996	0.906
$\pi/4$ DQPSK	Low	1.314	1.182
$\pi/4$ DQPSK	Middle	1.320	1.194
$\pi/4$ DQPSK	High	1.314	1.188
8DPSK	Low	1.320	1.182
8DPSK	Middle	1.302	1.182
8DPSK	High	1.302	1.188

Test plots

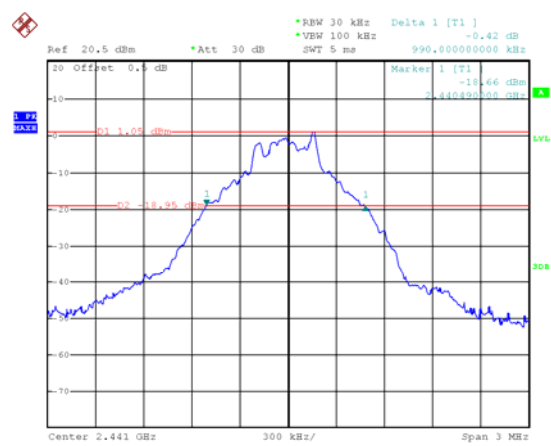
20 dB Bandwidth

Modulation: GFSK

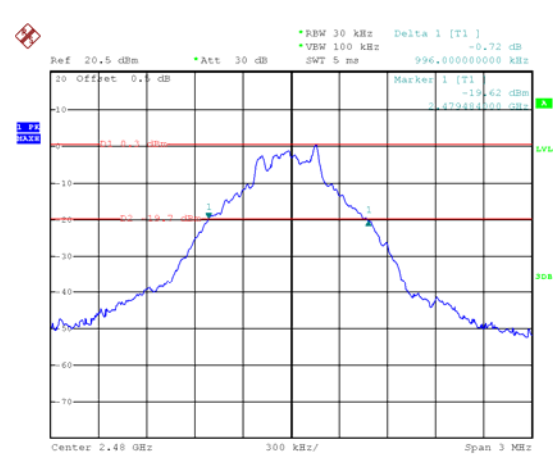
Low Channel



Middle Channel

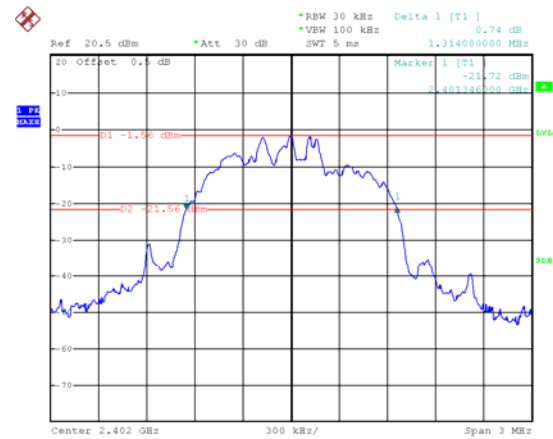


High Channel

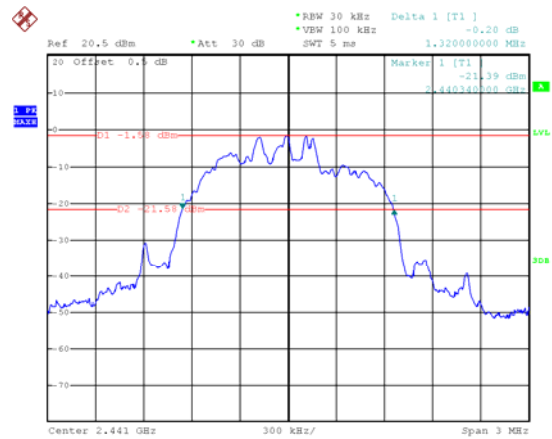


Modulation: $\pi/4$ DQPSK

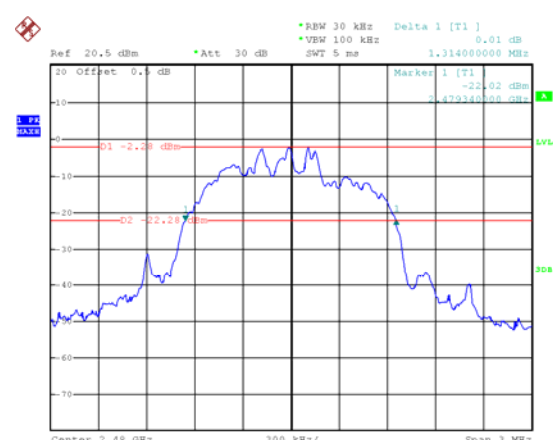
Low Channel



Middle Channel

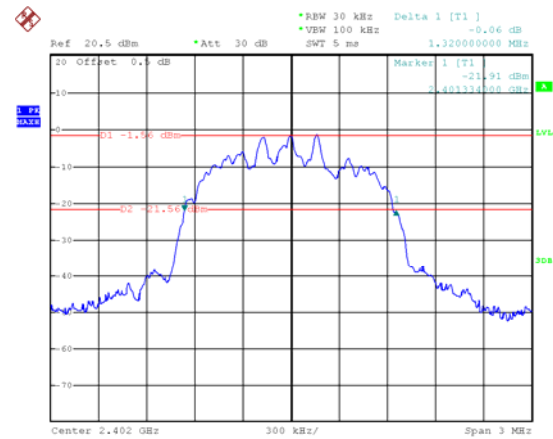


High Channel



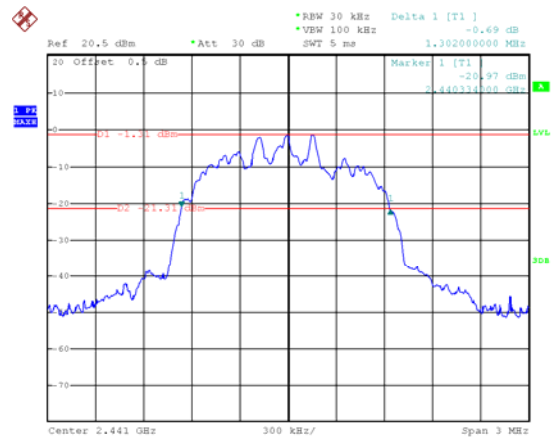
Modulation: 8DPSK

Low Channel



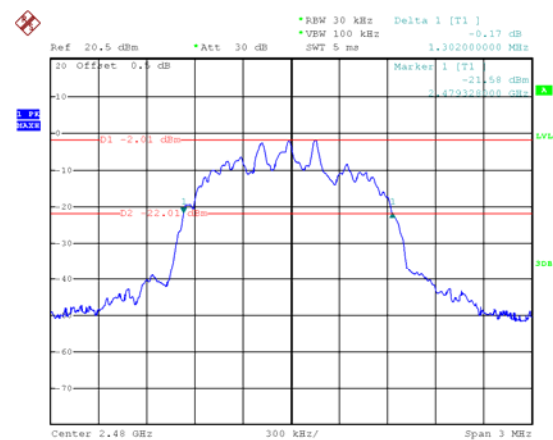
Date: 6.NOV.2024 13:18:45

Middle Channel



Date: 6.NOV.2024 13:19:37

High Channel

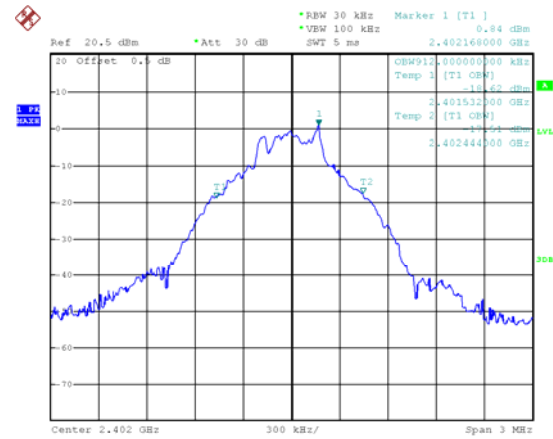


Date: 6.NOV.2024 13:20:37

99% Bandwidth

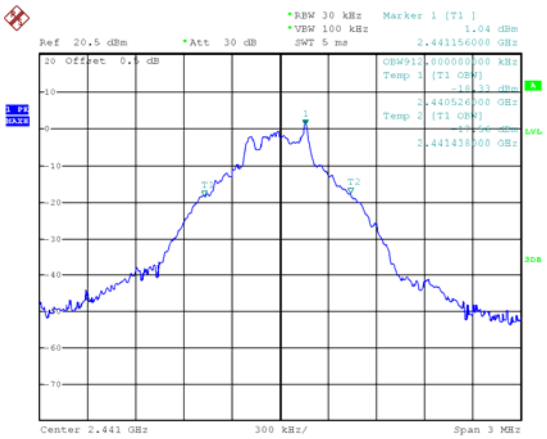
Modulation: GFSK

Low Channel



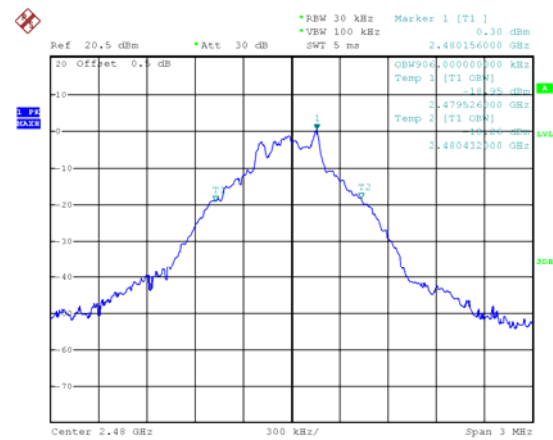
Date: 6.NOV.2024 13:10:50

Middle Channel



Date: 6.NOV.2024 13:10:21

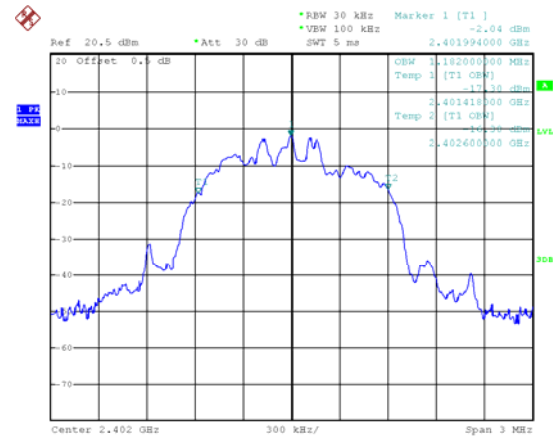
High Channel



Date: 6.NOV.2024 13:09:16

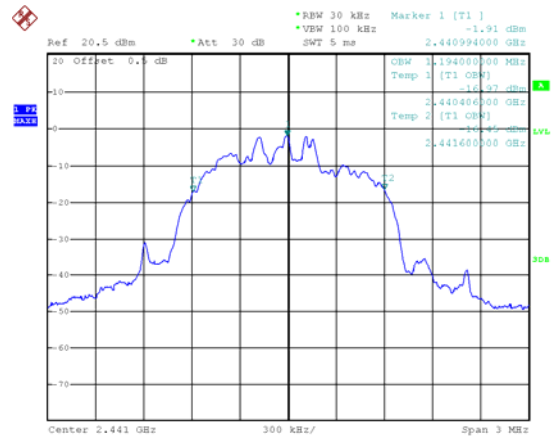
Modulation: $\pi/4$ DQPSK

Low Channel



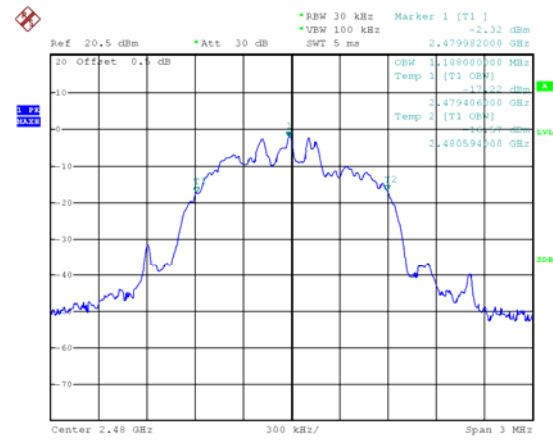
Date: 6.NOV.2024 10:34:41

Middle Channel



Date: 6.NOV.2024 13:07:52

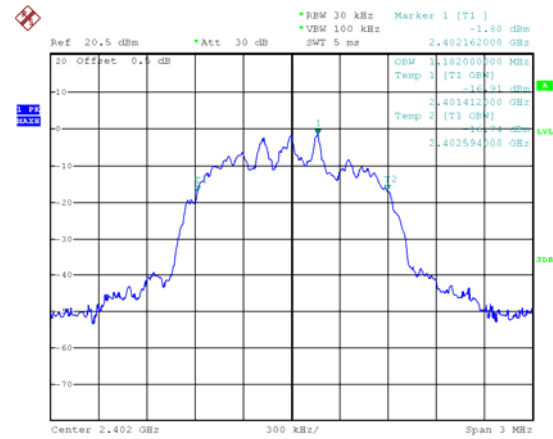
High Channel



Date: 6.NOV.2024 13:08:37

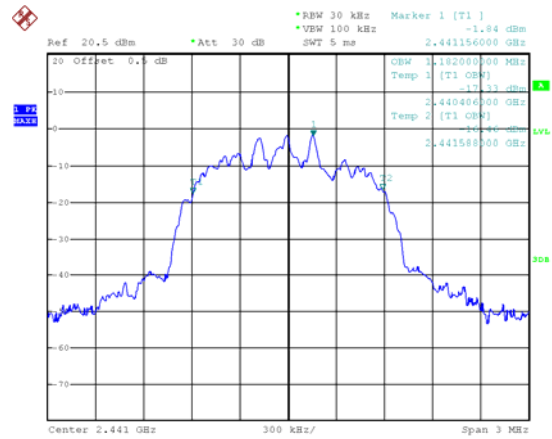
Modulation: 8DPSK

Low Channel



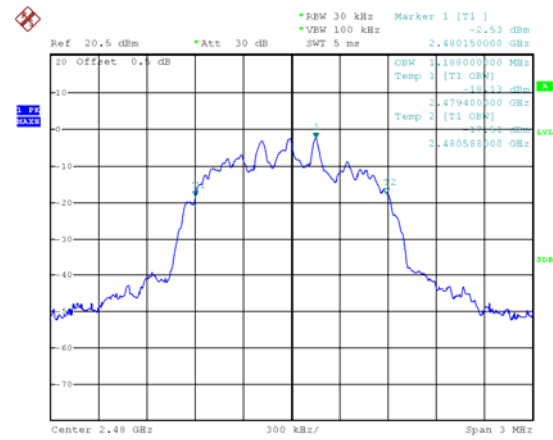
Date: 6.NOV.2024 10:33:07

Middle Channel



Date: 6.NOV.2024 10:32:31

High Channel



Date: 6.NOV.2024 10:31:48

12 Maximum Peak Output Power

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Limit: Regulation 15.247 (a)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater 0.125 watts..

Test mode: Test in fixing frequency transmitting mode.

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW $\geq$ 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
 - b) Allow trace to stabilize.
 - c) Use the marker-to-peak function to set the marker to the peak of the emission.
 - d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
 - e) A plot of the test results and setup description shall be included in the test report.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

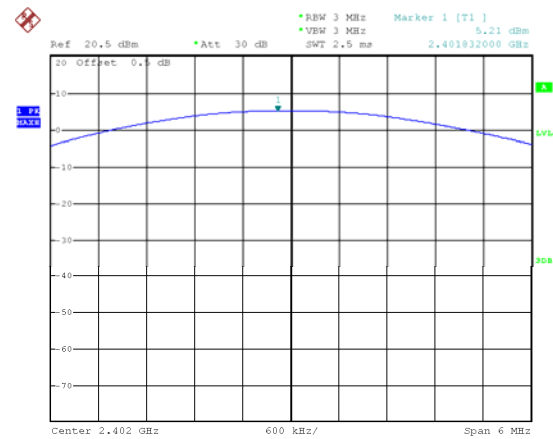
12.2 Test Result

Modulation	Test Channel	Output Power (dBm)	Limit (dBm)
GFSK	Low	5.21	30
GFSK	Middle	5.07	30
GFSK	High	4.25	30
$\pi/4$ DQPSK	Low	5.21	21
$\pi/4$ DQPSK	Middle	5.12	21
$\pi/4$ DQPSK	High	4.31	21
8DPSK	Low	5.17	21
8DPSK	Middle	5.14	21
8DPSK	High	4.26	21

Test plots

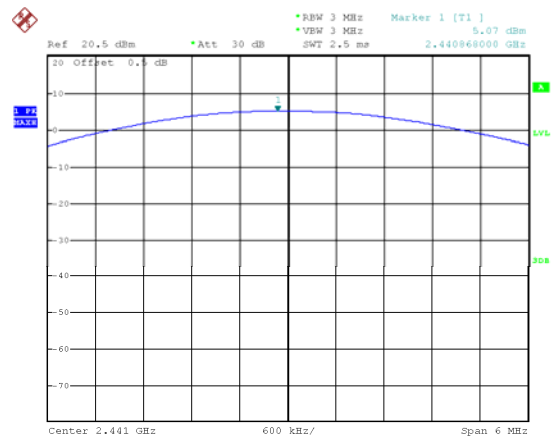
Modulation: GFSK

Low Channel



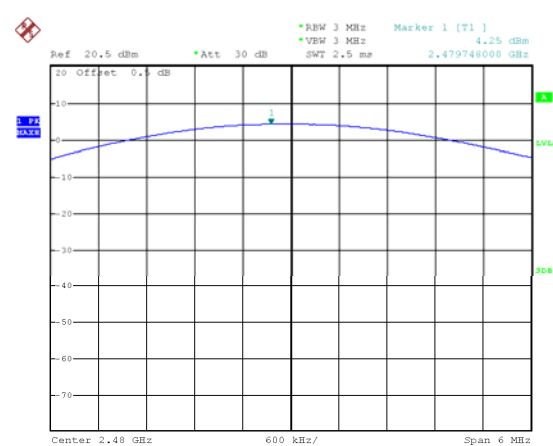
Date: 11.NOV.2024 08:40:39

Middle Channel



Date: 11.NOV.2024 08:41:15

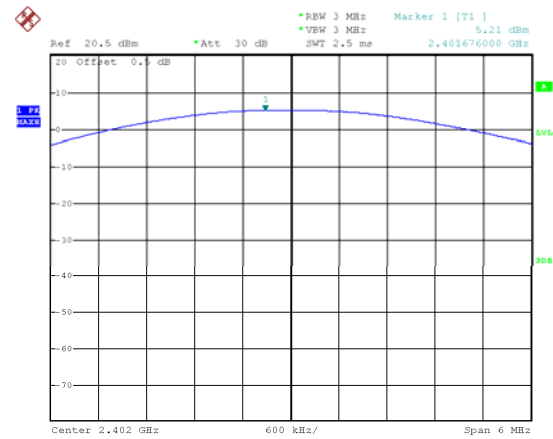
High Channel



Date: 11.NOV.2024 08:41:44

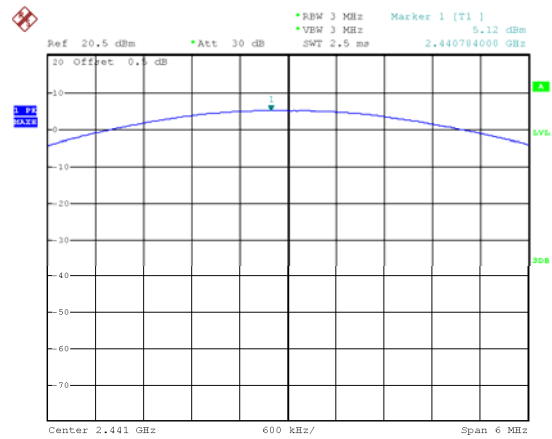
Modulation: $\pi/4$ DQPSK

Low Channel



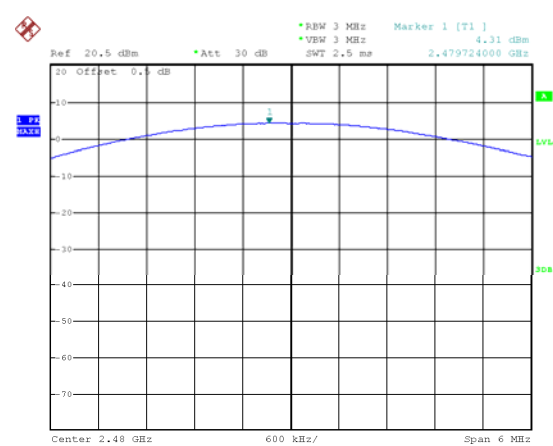
Date: 11.NOV.2024 08:38:42

Middle Channel



Date: 11.NOV.2024 08:39:23

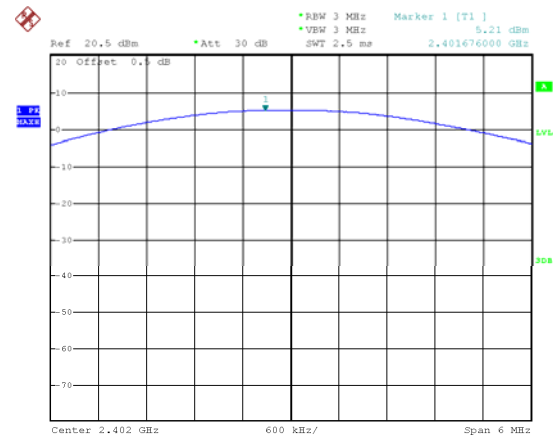
High Channel



Date: 11.NOV.2024 08:39:59

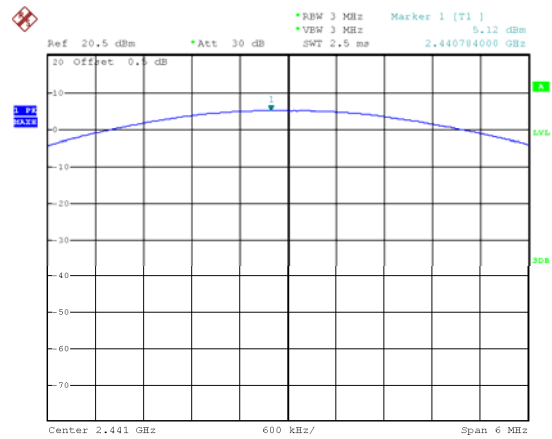
Modulation: 8DPSK

Low Channel



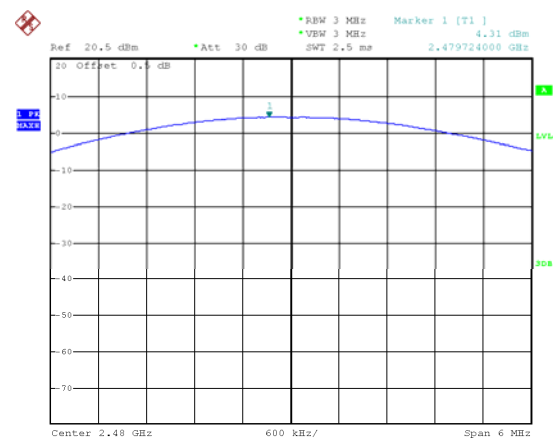
Date: 11.NOV.2024 08:38:42

Middle Channel



Date: 11.NOV.2024 08:39:23

High Channel



Date: 11.NOV.2024 08:39:59

13 Hopping Channel Separation

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Limit: Regulation 15.247(a)(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with power no greater than 0.125W.

Test Mode: Test in hopping transmitting operating mode.

13.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Span: Wide enough to capture the peaks of two adjacent channels.
 - b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
 - c) Video (or average) bandwidth (VBW) $\geq$ RBW.
 - d) Sweep: Auto.
 - e) Detector function: Peak.
 - f) Trace: Max hold.
 - g) Allow the trace to stabilize.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

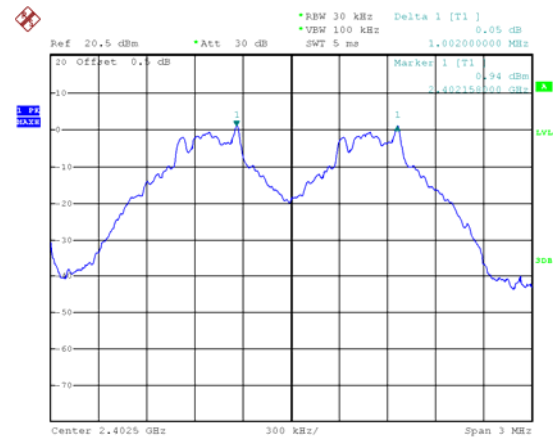
13.2 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1.002	0.660	PASS
GFSK	Middle	1.002	0.660	PASS
GFSK	High	1.002	0.664	PASS
$\pi/4$ DQPSK	Low	1.008	0.876	PASS
$\pi/4$ DQPSK	Middle	1.002	0.880	PASS
$\pi/4$ DQPSK	High	0.996	0.876	PASS
8DPSK	Low	1.002	0.880	PASS
8DPSK	Middle	1.002	0.868	PASS
8DPSK	High	1.002	0.868	PASS

Test plots

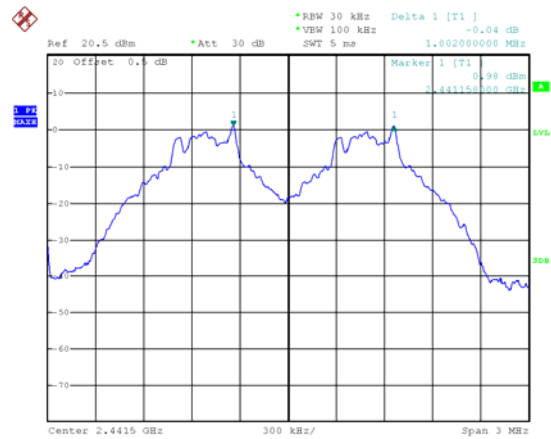
Modulation: GFSK

Low Channel



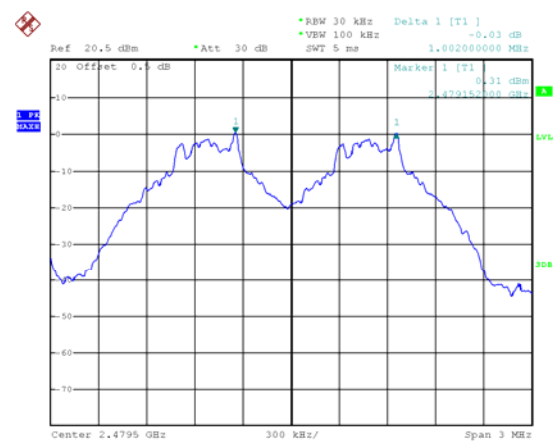
Date: 6.NOV.2024 13:29:52

Middle Channel



Date: 6.NOV.2024 13:31:40

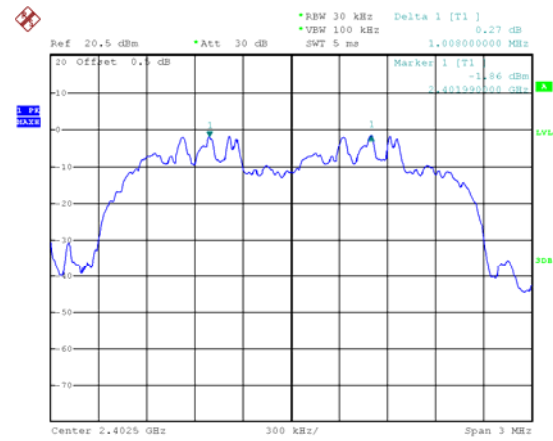
High Channel



Date: 6.NOV.2024 13:33:47

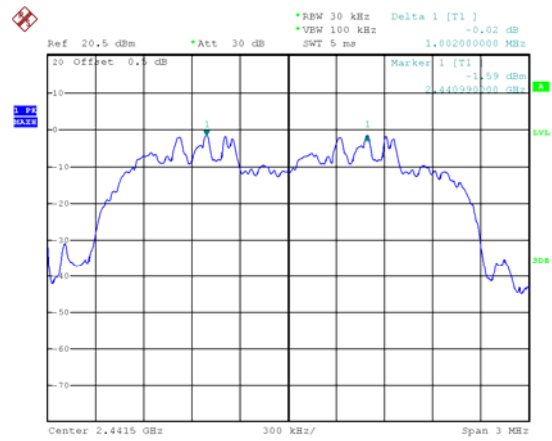
Modulation: $\pi/4$ DQPSK

Low Channel



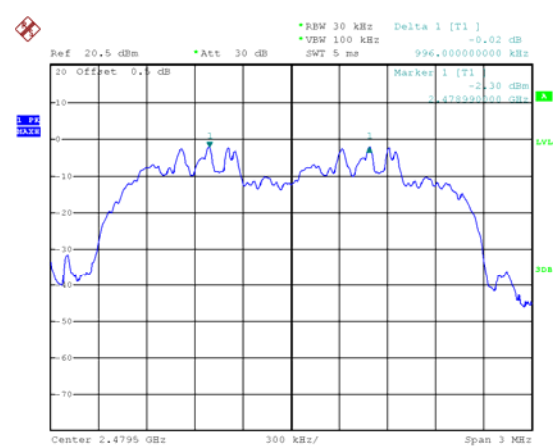
Date: 6.NOV.2024 13:43:22

Middle Channel



Date: 6.NOV.2024 13:41:11

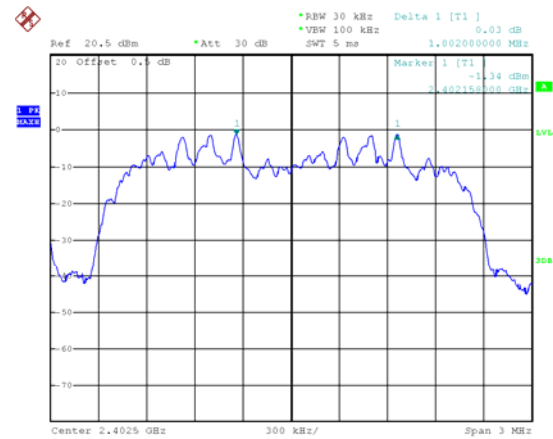
High Channel



Date: 6.NOV.2024 13:35:42

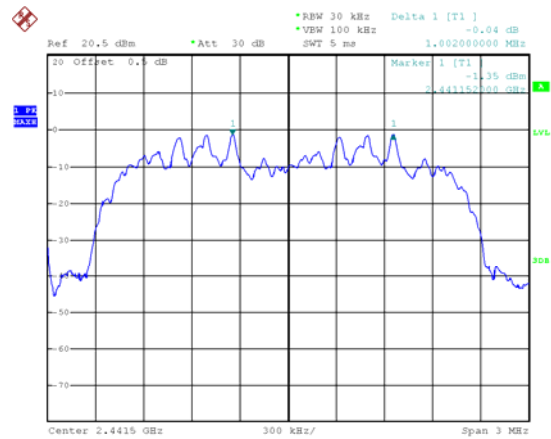
Modulation: 8DPSK

Low Channel



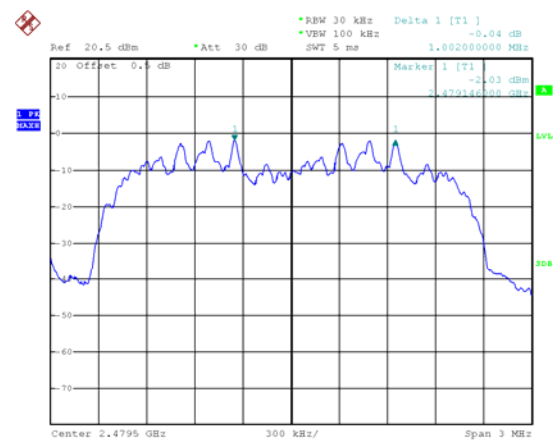
Date: 6.NOV.2024 13:44:40

Middle Channel



Date: 6.NOV.2024 13:46:41

High Channel



Date: 6.NOV.2024 13:49:27

14 Number of Hopping Frequency

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Limit: Regulation 15.247 (a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Test Mode: Test in hopping transmitting operating mode.

14.1 Test Procedure

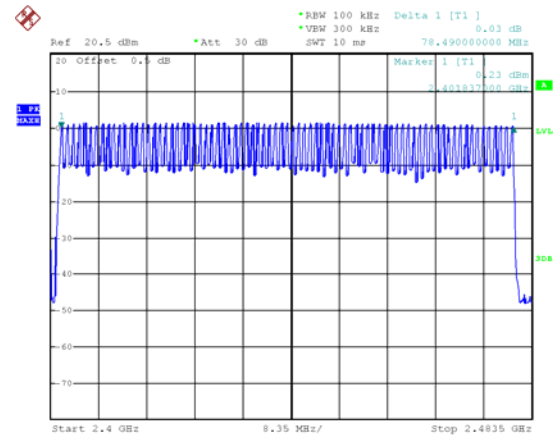
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
 - b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
 - c) VBW $\geq$ RBW.
 - d) Sweep: Auto.
 - e) Detector function: Peak.
 - f) Trace: Max hold.
 - g) Allow the trace to stabilize.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

14.2 Test Result

Total Channels are 79 Channels.

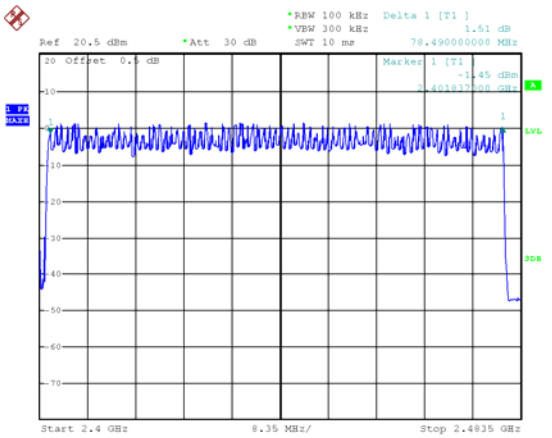
Test Plot

Modulation: GFSK



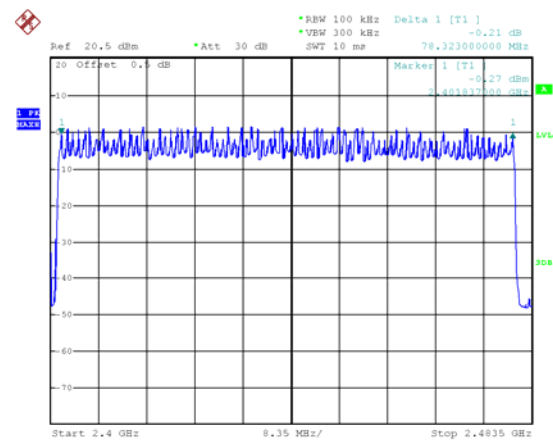
Date: 6.NOV.2024 14:13:05

Modulation: $\pi/4$ DQPSK



Date: 6.NOV.2024 14:11:26

Modulation: 8DPSK



Date: 6.NOV.2024 14:06:49

15 Dwell Time

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Limit: Regulation 15.247(a)(1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Mode: Test in hopping transmitting operating mode.

15.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0. Centred on a hopping channel;
3. Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

15.2 Test Result

DH5 Packet permit maximum $1600 / 79 / 6$ hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum $1600 / 79 / 4$ hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum $1600 / 79 / 2$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

Data Packet	Dwell Time(s)
DH5	$1600/79/6*0.4*79*(MkrDelta)/1000$
DH3	$1600/79/4*0.4*79*(MkrDelta)/1000$
DH1	$1600/79/2*0.4*79*(MkrDelta)/1000$
Remark: Mkr Delta is once pulse time.	

Modulation	Data Packet	Channel	pulse time(ms)	Dwell Time(s)	Limits(s)
GFSK	DH5	Low	2.900	0.309	0.4
		middle	2.900	0.309	0.4
		High	2.900	0.309	0.4
$\pi/4$ DQPSK	2DH5	Low	2.880	0.307	0.4
		middle	2.900	0.309	0.4
		High	2.900	0.309	0.4
8DPSK	3DH5	Low	2.900	0.309	0.4
		middle	2.900	0.309	0.4
		High	2.900	0.309	0.4

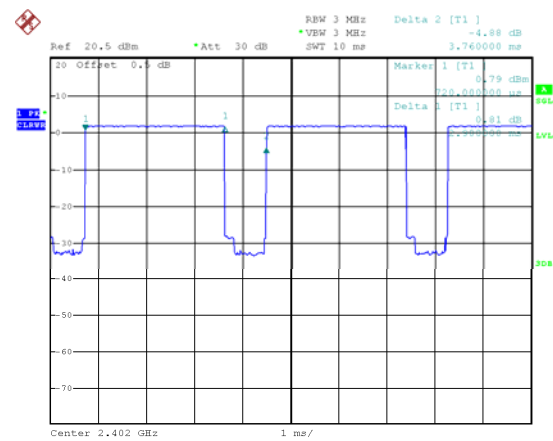
Remark: Only the worst-case mode DH5, 2DH5 and 3DH5 were recorded.

Test Plot

Modulation: GFSK

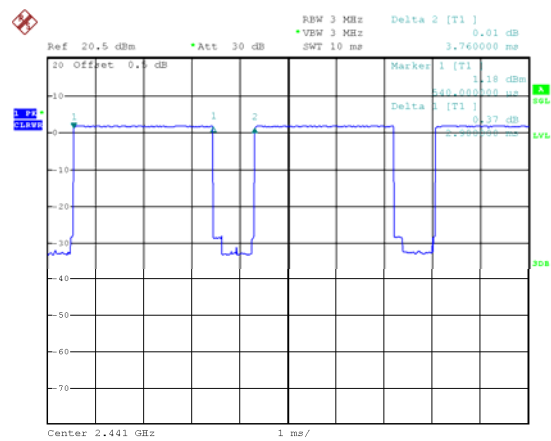
Data Packet: DH5

Low Channel



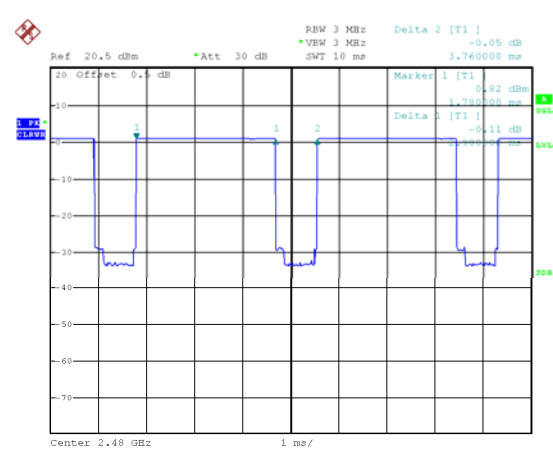
Date: 6.NOV.2024 13:27:27

Middle Channel



Date: 6.NOV.2024 13:26:52

High Channel

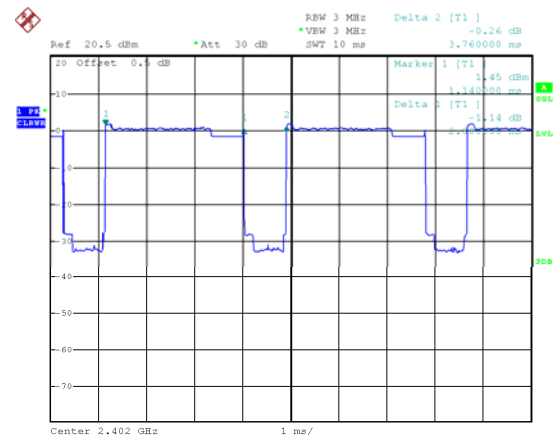


Date: 6.NOV.2024 13:26:17

Modulation: $\pi/4$ DQPSK

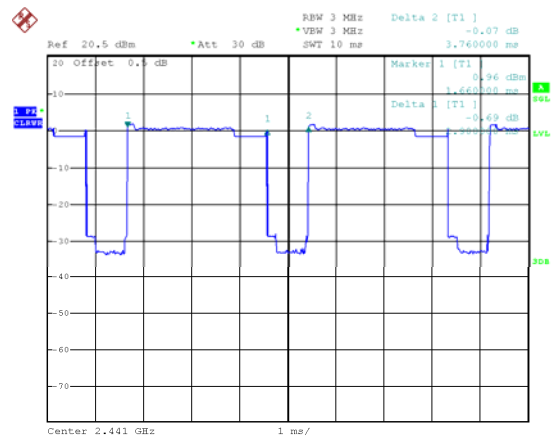
Data Packet: 2DH5

Low Channel



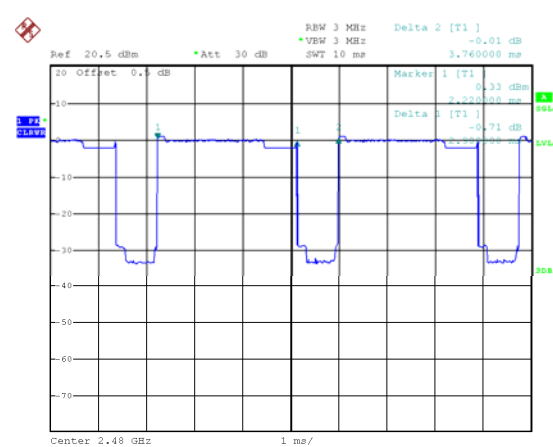
Date: 6.NOV.2024 13:24:37

Middle Channel



Date: 6.NOV.2024 13:25:14

High Channel

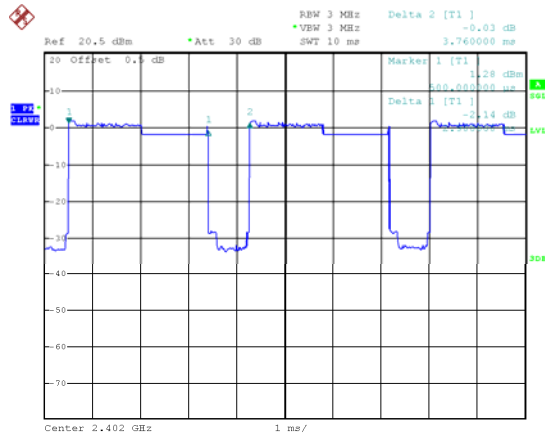


Date: 6.NOV.2024 13:25:47

Modulation: 8DPSK

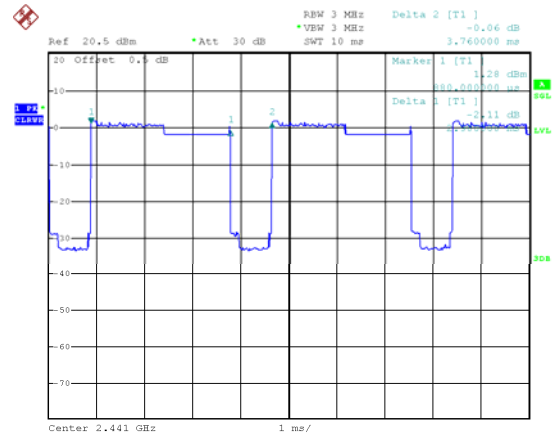
Data Packet: 3DH5

Low Channel



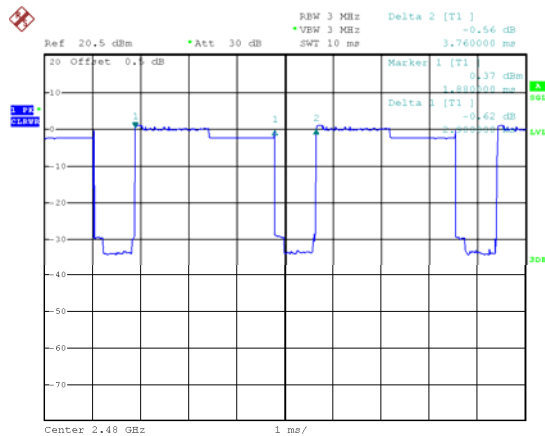
Date: 6.NOV.2024 13:23:56

Middle Channel



Date: 6.NOV.2024 13:23:25

High Channel



Date: 6.NOV.2024 13:22:42

16 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has a PCB printed antenna, fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

17 RF Exposure

Remark: refer to MPE test report: WTF24D09209687W003

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix- SP-PA200BT -Photos.

=====End of Report=====