FCC TEST REPORT

FCC ID: 2BUF9-YX03

Report No.	:	DSP26010380-1E
Applicant	:	Dongguan Hongyuansheng Electronics Co.,Ltd.
Product Name	:	Bluetooth Smart Glasses
Model Name	:	YX03
Test Standard	:	FCC Part 15.247
Date of Issue	:	2026-01-26

Shenzhen CCUT Quality Technology Co., Ltd.
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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....:	Dongguan Hongyuansheng Electronics Co.,Ltd.
Address of Applicant.....:	Room 202, Building 1, No. 82, Luhu East Road, Qingxi Town, Dongguan City, Guangdong Province
Manufacturer.....:	Dongguan Hongyuansheng Electronics Co.,Ltd.
Address of Manufacturer.....:	Room 202, Building 1, No. 82, Luhu East Road, Qingxi Town, Dongguan City, Guangdong Province
Product Name.....:	Bluetooth Smart Glasses
Brand Name.....:	-
Main Model.....:	YX03
Series Models.....:	YX01, YX02, YS01, YS02, YS03, YS05, YS06, YS07, YS08
Test Standard.....:	FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2020
Date of Test .....:	2026-01-09 to 2026-01-14
Test Result.....:	PASS
Tested By .....:	Walker Wu (Walker Wu)
Reviewed By.....:	Lorzix Luo (Lorzix Luo)
Authorized Signatory.....:	Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

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CONTENTS

1. General Information **5**
1.1 Product Information 5
1.2 Test Setup Information 6
1.3 Compliance Standards 7
1.4 Test Facilities 7
1.5 List of Measurement Instruments 8
1.6 Measurement Uncertainty 9
2. Summary of Test Results **10**
3. Antenna Requirement **11**
3.1 Standard and Limit 11
3.2 Test Result 11
4. Conducted Emissions **12**
4.1 Standard and Limit 12
4.2 Test Procedure 12
4.3 Test Data and Results 13
5. Radiated Emissions **16**
5.1 Standard and Limit 16
5.2 Test Procedure 16
5.3 Test Data and Results 18
6. Band-edge Emissions(Radiated) **22**
6.1 Standard and Limit 22
6.2 Test Procedure 22
6.3 Test Data and Results 22
7. Frequency Hopping System **24**
7.1 Standard and Limit 24
7.2 Test Procedure 24
7.3 Test Data and Results 25
8. Dwell Time **26**
8.1 Standard and Limit 26
8.2 Test Procedure 26
8.3 Test Data and Results 27
9. Maximum Peak Conducted Output Power **30**
9.1 Standard and Limit 30
9.2 Test Procedure 30
9.3 Test Data and Results 30
10. Occupied Bandwidth(-20dB) **34**
10.1 Standard and Limit 34
10.2 Test Procedure 34
10.3 Test Data and Results 34
11. Carrier Frequencies Separation **38**
11.1 Standard and Limit 38
11.2 Test Procedure 38
11.3 Test Data and Results 38
12. Number of Hopping Channel **42**
12.1 Standard and Limit 42
12.2 Test Procedure 42
12.3 Test Data and Results 42
13. Band-edge Emission(Conducted) **45**
13.1 Standard and Limit 45
13.2 Test Procedure 45
13.3 Test Data and Results 45
14. Conducted RF Spurious Emissions **53**
14.1 Standard and Limit 53
14.2 Test Procedure 53
14.3 Test Data and Results 53

Revision History

Revision	Issue Date	Description	Revised By
V1.0	2026-01-26	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Bluetooth Smart Glasses
Trade Name:	-
Main Model:	YX03
Series Models:	YX01, YX02, YS01, YS02, YS03, YS05, YS06, YS07, YS08
Rated Voltage:	DC 3.8V by battery, USB 5V Charging
Battery:	DC 3.8V, 55mAh
Test Sample No:	DSP26010380-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	Bluetooth BR/EDR
Operating Frequency:	2402MHz ~ 2480MHz
RF Output Power:	1.01dBm
Number of Channel:	79
Channel Separation:	1MHz
Modulation:	GFSK, Pi/4 DQPSK
Antenna Gain:	1.7dBi
Type of Antenna:	SMD Antenna
Type of Device:	☒ Portable Device ☐ Mobile Device ☐ Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Lowest Channel	2402MHz(DH5/2DH5)
TM2	Middle Channel	2441MHz(DH5/2DH5)
TM3	Highest Channel	2480MHz(DH5/2DH5)
TM4	Hopping	2402MHz~2480MHz
TM5	Playing with charging	Bluetooth playing

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
Adapter	Xiaomi	MDY-12-EF	HC78E2N6A23645
-	-	-	-

Test Software & Power level setup of EUT	
Test Software	Power level setup
BT_Tool	7

Note: The DUT was installed in a test fixture and this test fixture is connected to a laptop computer. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the proprietary tool BT_Tool.

List of Channels							
No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)
01	2402	21	2422	41	2442	61	2462
02	2403	22	2423	42	2443	62	2463
03	2404	23	2424	43	2444	63	2464
04	2405	24	2425	44	2445	64	2465
05	2406	25	2426	45	2446	65	2466
~	~	~	~	~	~	~	~
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No.:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2025-07-15	2026-07-14
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2025-07-15	2026-07-14
Test Cable	N/A	Cable 5	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2025-07-15	2026-07-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2025-07-15	2026-07-14
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2025-07-15	2026-07-14
Amplifier	SCHWARZBECK	BBV 9743B	00251	2025-07-15	2026-07-14
Amplifier	HUABO	YXL0518-2.5-45	--	2025-07-15	2026-07-14
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2025-07-15	2026-07-14
Loop Antenna	DAZE	ZN30900C	21104	2025-07-12	2026-07-11
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2025-07-12	2026-07-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2025-07-12	2026-07-11
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2025-07-12	2026-07-11
Attenuator	QUANJUDA	6dB	220731	2025-07-15	2026-07-14
Test Cable	N/A	Cable 1	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 2	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 3	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 4	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 8	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 9	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2025-07-16	2026-07-15
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2025-07-16	2026-07-15
RF Test Software	MWRFTest	MTS 8310	N/A	N/A	N/A
Laptop	Lenovo	ThlnkPad E15 Gen 3	SPPOZ22485	N/A	N/A

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.247(i)	RF Exposure(see the RF exposure report)	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed
FCC Part 15.247(d)	Band-edge Emissions(Radiated)	Passed
FCC Part 15.247(a)(1), (g), (h)	Frequency Hopping System	Passed
FCC Part 15.247(a)(1)(iii)	Dwell Time	Passed
FCC Part 15.247(b)(1)	Maximum Peak Conducted Output Power	Passed
FCC Part 15.215(c)	Occupied Bandwidth(-20dB)	Passed
FCC Part 15.247(a)(1)	Carrier Frequencies Separation	Passed
FCC Part 15.247(a)(1)(iii)	Number of Hopping Channel	Passed
FCC Part 15.247(d)	Band-edge Emissions(Conducted)	Passed
FCC Part 15.247(d)	Conducted RF Spurious Emissions	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an SMD antenna, fulfill the requirement of this section.

4. Conducted Emissions

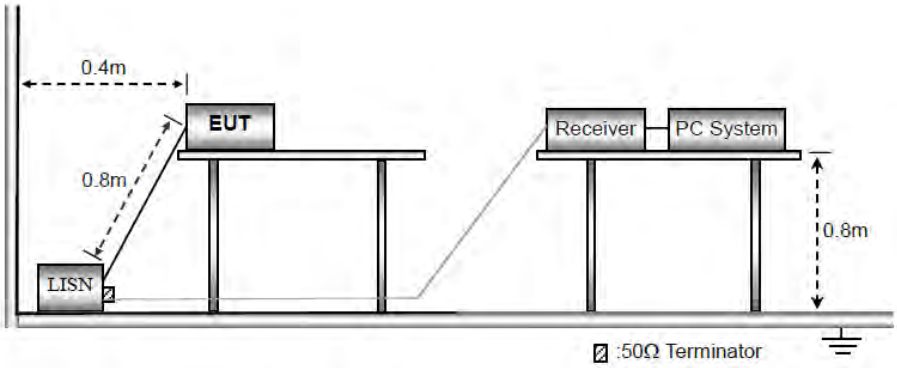
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2020 section 6.2.



Test Setup Block Diagram

a) 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.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) 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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) 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.
e) 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.

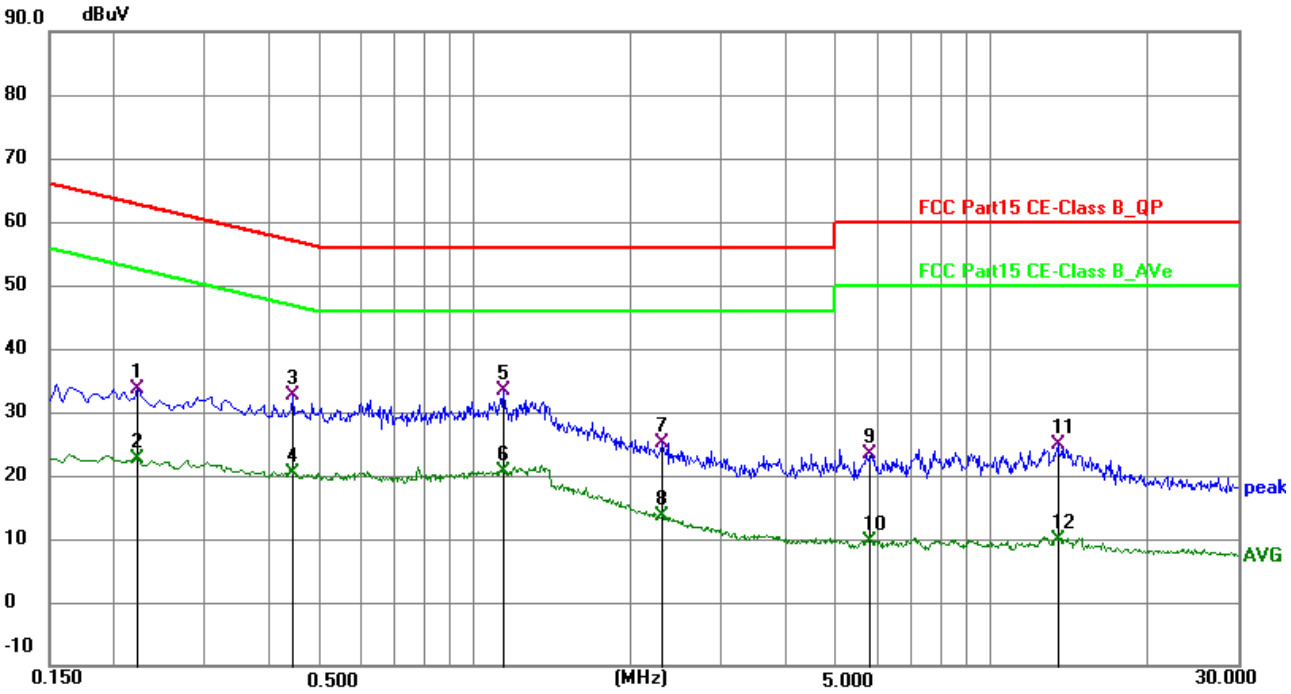
f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

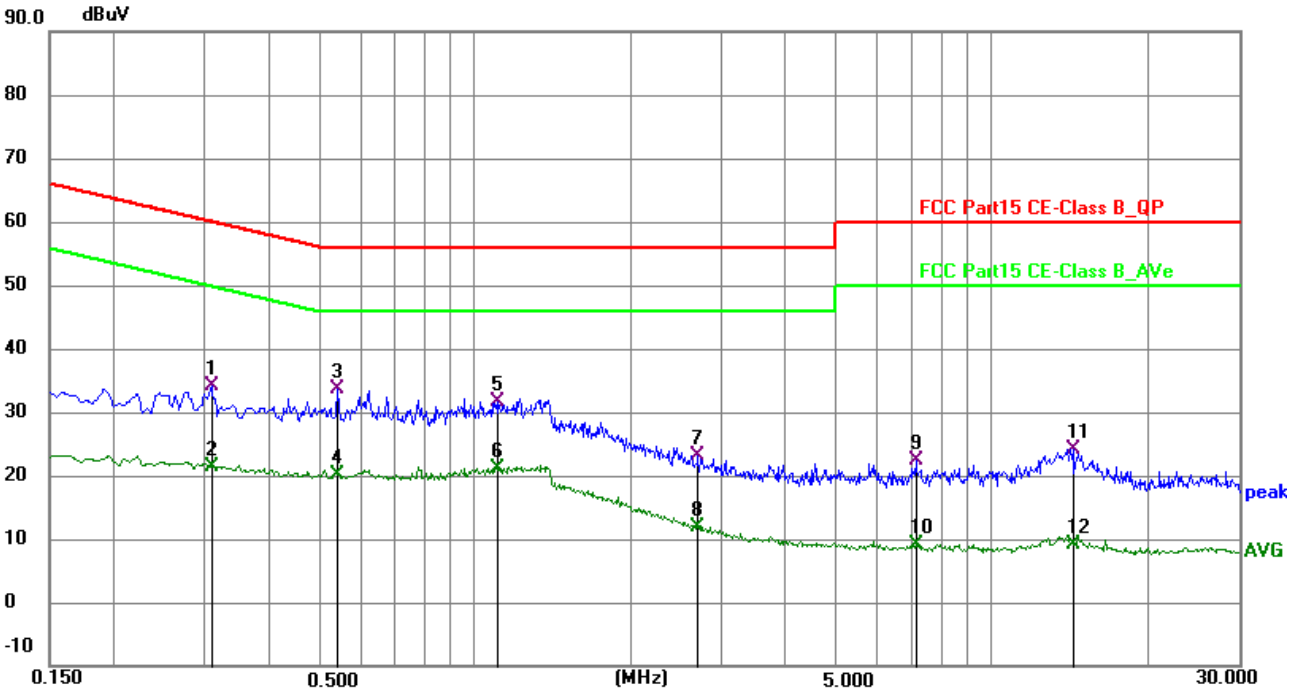
All of the modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions	
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2220	24.48	9.25	33.73	62.74	-29.01	QP	P	
2	0.2220	13.42	9.25	22.67	52.74	-30.07	AVG	P	
3	0.4425	23.14	9.38	32.52	57.01	-24.49	QP	P	
4	0.4425	10.95	9.38	20.33	47.01	-26.68	AVG	P	
5 *	1.1400	24.04	9.43	33.47	56.00	-22.53	QP	P	
6	1.1400	11.23	9.43	20.66	46.00	-25.34	AVG	P	
7	2.3010	15.75	9.47	25.22	56.00	-30.78	QP	P	
8	2.3010	4.16	9.47	13.63	46.00	-32.37	AVG	P	
9	5.8649	13.90	9.57	23.47	60.00	-36.53	QP	P	
10	5.8649	0.09	9.57	9.66	50.00	-40.34	AVG	P	
11	13.4745	15.40	9.54	24.94	60.00	-35.06	QP	P	
12	13.4745	0.39	9.54	9.93	50.00	-40.07	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3075	24.46	9.59	34.05	60.04	-25.99	QP	P	
2	0.3075	11.90	9.59	21.49	50.04	-28.55	AVG	P	
3 *	0.5415	23.93	9.58	33.51	56.00	-22.49	QP	P	
4	0.5415	10.59	9.58	20.17	46.00	-25.83	AVG	P	
5	1.1040	22.13	9.62	31.75	56.00	-24.25	QP	P	
6	1.1040	11.54	9.62	21.16	46.00	-24.84	AVG	P	
7	2.7060	13.45	9.68	23.13	56.00	-32.87	QP	P	
8	2.7060	2.20	9.68	11.88	46.00	-34.12	AVG	P	
9	7.1115	12.50	9.76	22.26	60.00	-37.74	QP	P	
10	7.1115	-0.68	9.76	9.08	50.00	-40.92	AVG	P	
11	14.3160	14.44	9.73	24.17	60.00	-35.83	QP	P	
12	14.3160	-0.52	9.73	9.21	50.00	-40.79	AVG	P	

5. Radiated Emissions

5.1 Standard and Limit

According to §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)).

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

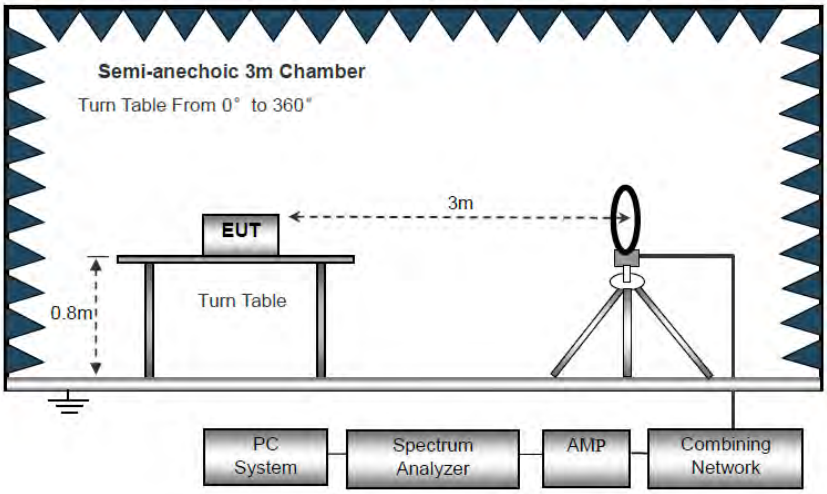
Frequency of emission (MHz)	Radiated emissions (3m)
	Quasi-peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54
Note: The more stringent limit applies at transition frequencies.	

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

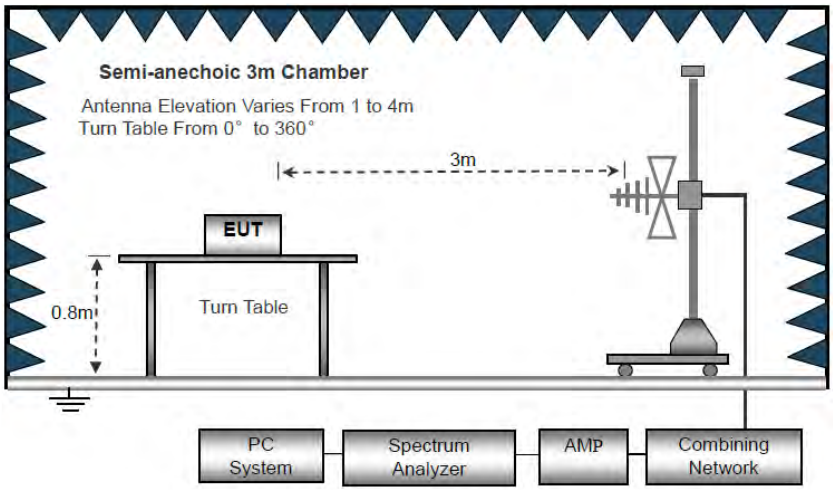
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

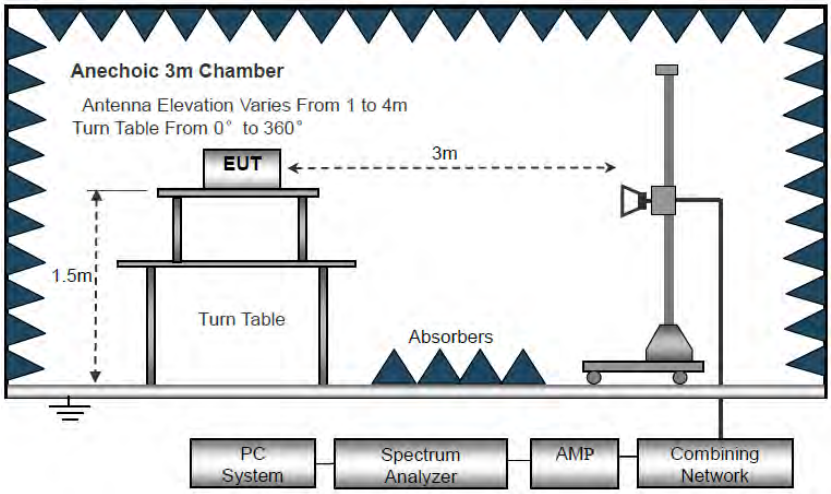
Test is conducting under the description of ANSI C63.10 - 2020 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz
VBW ≥ RBW, Sweep = auto
Detector function = peak
Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

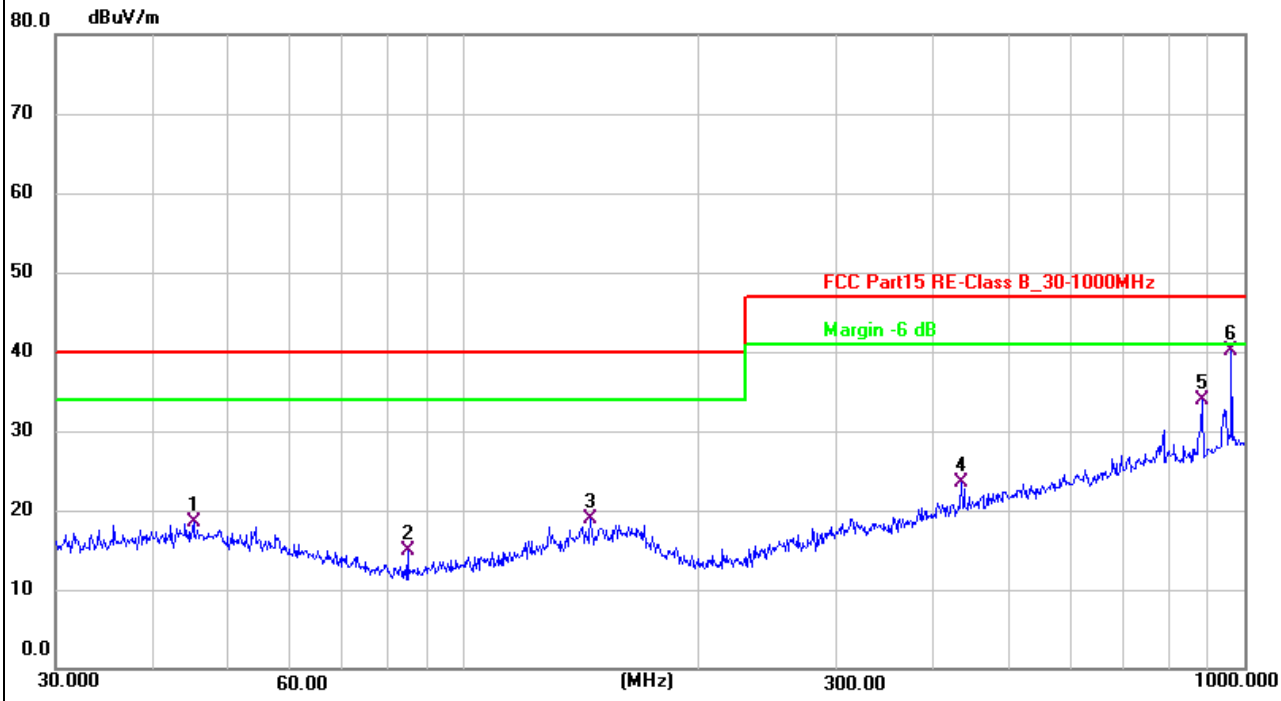
f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

All of the GFSK, π/4 DQPSK modes have been tested, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case is Left earphone GFSK_2402MHz as below:

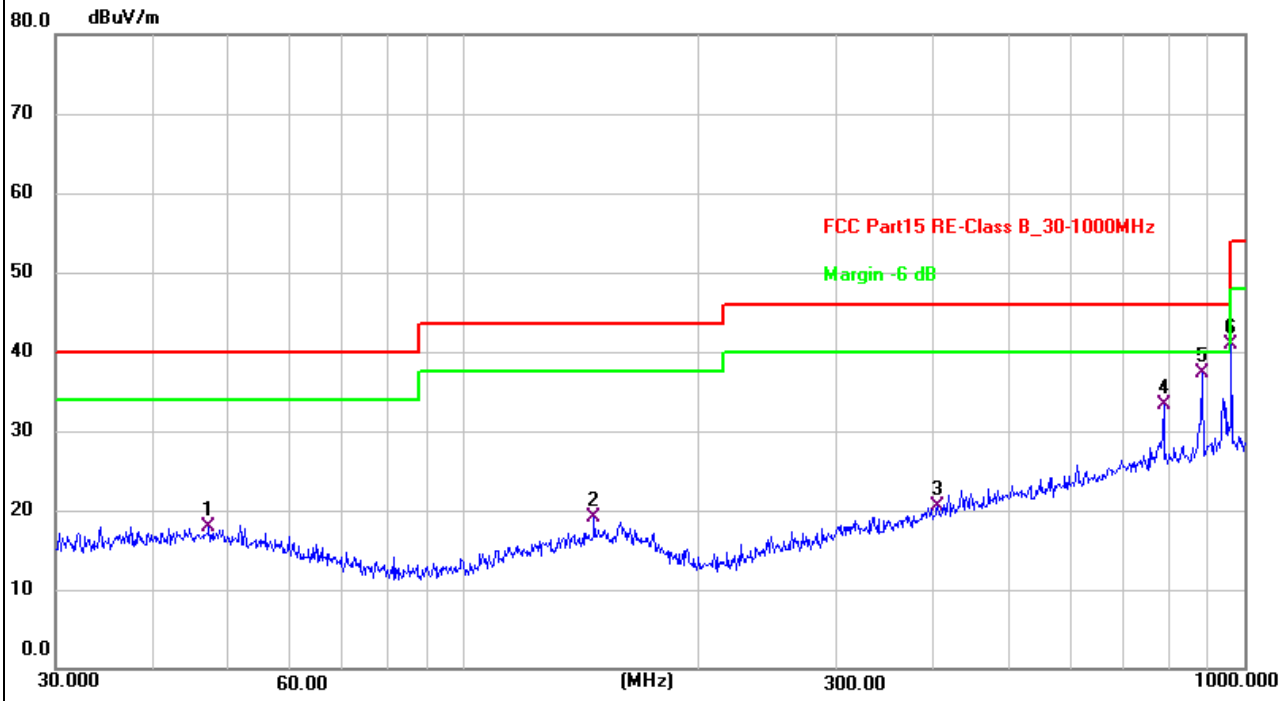
Remark: Level = Reading + Factor, Margin = Level - Limit

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.0583	26.78	-8.26	18.52	40.00	-21.48	QP	100	206	P	
2	84.7020	27.87	-12.96	14.91	40.00	-25.09	QP	100	227	P	
3	145.3505	26.78	-7.96	18.82	40.00	-21.18	QP	100	359	P	
4	434.0650	28.30	-4.85	23.45	47.00	-23.55	QP	100	134	P	
5	881.4067	31.69	2.23	33.92	47.00	-13.08	QP	100	134	P	
6 *	962.1621	36.97	3.12	40.09	47.00	-6.91	QP	100	268	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.1597	26.26	-8.32	17.94	40.00	-22.06	QP	100	185	P	
2	146.8875	26.91	-7.88	19.03	43.50	-24.47	QP	100	71	P	
3	404.6664	25.98	-5.48	20.50	46.00	-25.50	QP	100	30	P	
4	787.8511	31.96	1.36	33.32	46.00	-12.68	QP	100	245	P	
5 *	881.4067	35.08	2.23	37.31	46.00	-8.69	QP	100	20	P	
6	962.1621	37.86	3.12	40.98	54.00	-13.02	QP	100	5	P	

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (GFSK_2402MHz)							
4804	74.04	-14.72	59.32	74	-14.68	H	PK
4804	62.29	-14.72	47.57	54	-6.43	H	AV
7206	65.38	-8.41	56.97	74	-17.03	H	PK
7206	45.2	-8.41	36.79	54	-17.21	H	AV
4804	77.89	-14.72	63.17	74	-10.83	V	PK
4804	60.63	-14.72	45.91	54	-8.09	V	AV
7206	65.04	-8.41	56.63	74	-17.37	V	PK
7206	48.21	-8.41	39.8	54	-14.2	V	AV
Middle Channel (GFSK_2441MHz)							
4882	76.95	-14.64	62.31	74	-11.69	H	PK
4882	62.91	-14.64	48.27	54	-5.73	H	AV
7323	65.99	-8.28	57.71	74	-16.29	H	PK
7323	47.86	-8.28	39.58	54	-14.42	H	AV
4882	76.44	-14.64	61.8	74	-12.2	V	PK
4882	60.09	-14.64	45.45	54	-8.55	V	AV
7323	65.93	-8.28	57.65	74	-16.35	V	PK
7323	49.53	-8.28	41.25	54	-12.75	V	AV
Highest Channel (GFSK_2480MHz)							
4960	76.01	-14.53	61.48	74	-12.52	H	PK
4960	60.17	-14.53	45.64	54	-8.36	H	AV
7440	64.81	-8.13	56.68	74	-17.32	H	PK
7440	48.42	-8.13	40.29	54	-13.71	H	AV
4960	77.35	-14.53	62.82	74	-11.18	V	PK
4960	57.19	-14.53	42.66	54	-11.34	V	AV
7440	65.6	-8.13	57.47	74	-16.53	V	PK
7440	45.39	-8.13	37.26	54	-16.74	V	AV

Note 1: All of the GFSK, π/4 DQPSK modes have been tested. This EUT was tested in 3 orthogonal positions, with the X-axis being the worst, and the worst case position data of GFSK was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

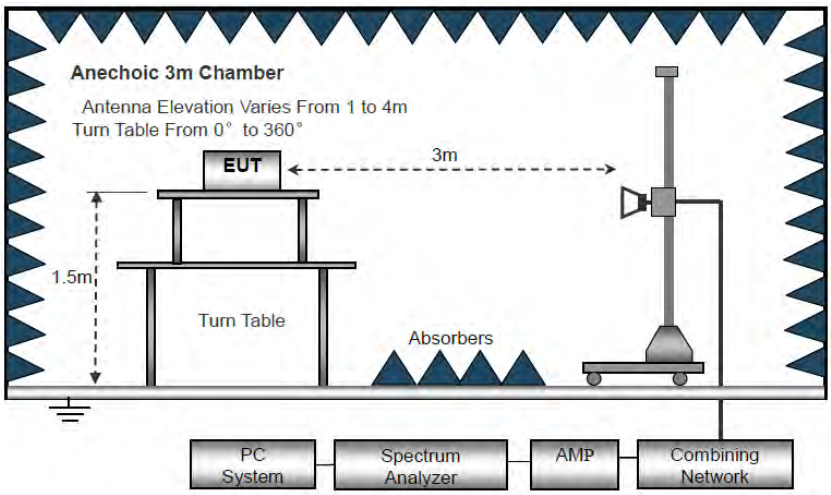
6. Band-edge Emissions(Radiated)

6.1 Standard and Limit

According to §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 Procedure

Test is conducting under the description of ANSI C63.10 - 2020 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

All of the GFSK, π/4 DQPSK modes have been tested, the EUT complied with the FCC Part 15.247 standard limit, and with the worst case Left earphone GFSK as below:

Test Mode	Frequency	Limit	Result
	MHz	dBuV/dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

Radiated Emission Test Data (Band edge emissions)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (GFSK_2402MHz)							
2310	66.63	-21.34	45.29	74	-28.71	H	PK
2310	50.77	-21.34	29.43	54	-24.57	H	AV
2390	66.23	-20.96	45.27	74	-28.73	H	PK
2390	50.43	-20.96	29.47	54	-24.53	H	AV
2400	74.89	-20.91	53.98	74	-20.02	H	PK
2400	55.89	-20.91	34.98	54	-19.02	H	AV
2310	65.53	-21.34	44.19	74	-29.81	V	PK
2310	52.81	-21.34	31.47	54	-22.53	V	AV
2390	68.51	-20.96	47.55	74	-26.45	V	PK
2390	51.31	-20.96	30.35	54	-23.65	V	AV
Highest Channel (GFSK_2480MHz)							
2483.50	67.03	-20.51	46.52	74	-27.48	H	PK
2483.50	54.78	-20.51	34.27	54	-19.73	H	AV
2500	67.15	-20.43	46.72	74	-27.28	H	PK
2500	52.67	-20.43	32.24	54	-21.76	H	AV
2483.50	67.24	-20.51	46.73	74	-27.27	V	PK
2483.50	52.41	-20.51	31.9	54	-22.1	V	AV
2500	67.12	-20.43	46.69	74	-27.31	V	PK
2500	50.52	-20.43	30.09	54	-23.91	V	AV

Remark: Level = Reading + Factor, Margin = Level - Limit

7. Frequency Hopping System

7.1 Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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

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

7.2 Test Procedure

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for DA 00-705 and FCC Part 15.247 rule.

7.3 Test Data and Results

Pseudorandom Frequency Hopping Sequence Table as below:
Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

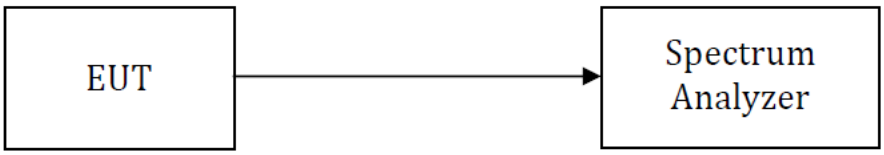
8. Dwell Time

8.1 Standard and Limit

According to 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..

8.2 Test Procedure

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Spectrum Setting: RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
3) Use video trigger with the trigger level set to enable triggering only on full pulses.
4) Sweep Time is more than once pulse time.
5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
6) Measure the maximum time duration of one single pulse.
7) Set the EUT for packet transmitting.
8) Measure the maximum time duration of one single pulse.
9) The EUT was set to the Hopping Mode for Dwell Time Test.



Test Setup Block Diagram

8.3 Test Data and Results

Left earphone:

Test Mode	Data Packet	Channel (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	2441	0.399	127.68	<400	Pass
	DH3	2441	1.656	264.96	<400	Pass
	DH5	2441	2.904	309.76	<400	Pass
Pi/4 DQPSK	2DH1	2441	0.412	131.84	<400	Pass
	2DH3	2441	1.663	266.08	<400	Pass
	2DH5	2441	2.911	310.51	<400	Pass

Note:

1. A period time = 0.4 (s) * 79 = 31.6(s)
2. DH1 time slot = Pulse Duration * (1600/(2*79)) * A period time

DH3 time slot = Pulse Duration * (1600/(4*79)) * A period time

DH5 time slot = Pulse Duration * (1600/(6*79)) * A period time

3. For GFSK, π/4-DQPSK and 8DPSK: The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Right earphone:

Test Mode	Data Packet	Channel (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	2441	0.4	128.00	<400	Pass
	DH3	2441	1.655	264.80	<400	Pass
	DH5	2441	2.904	309.76	<400	Pass
Pi/4 DQPSK	2DH1	2441	0.389	124.48	<400	Pass
	2DH3	2441	1.664	266.24	<400	Pass
	2DH5	2441	2.912	310.61	<400	Pass

Note:

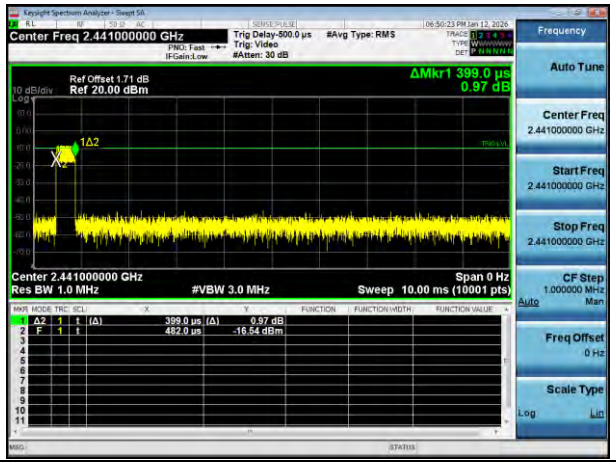
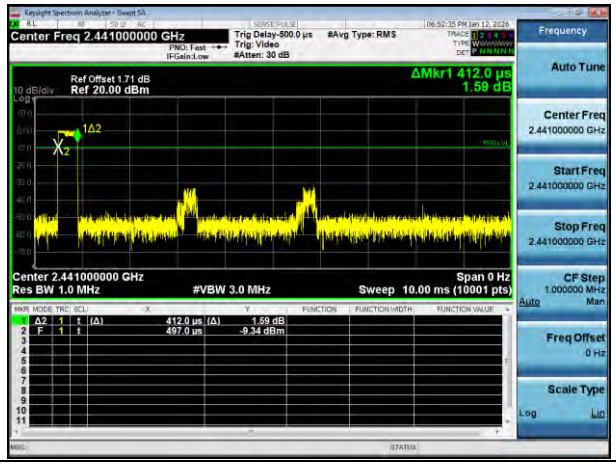
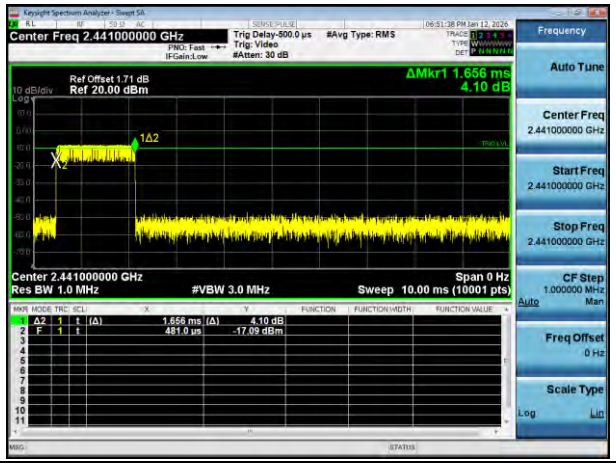
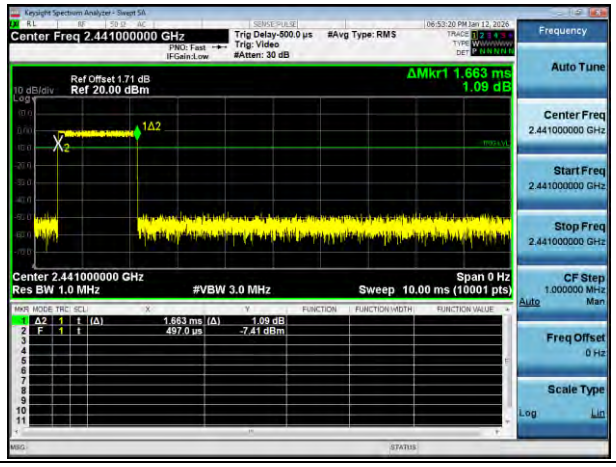
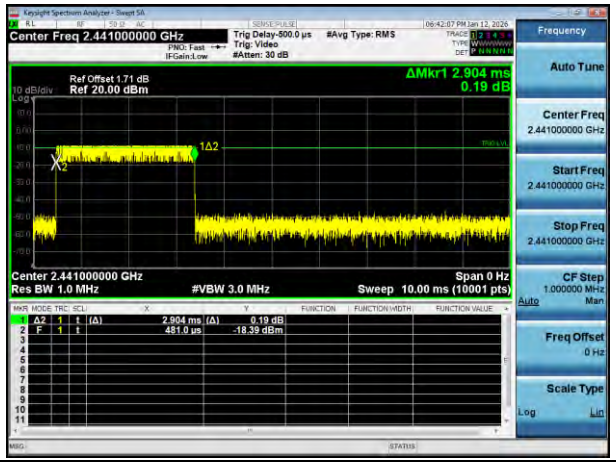
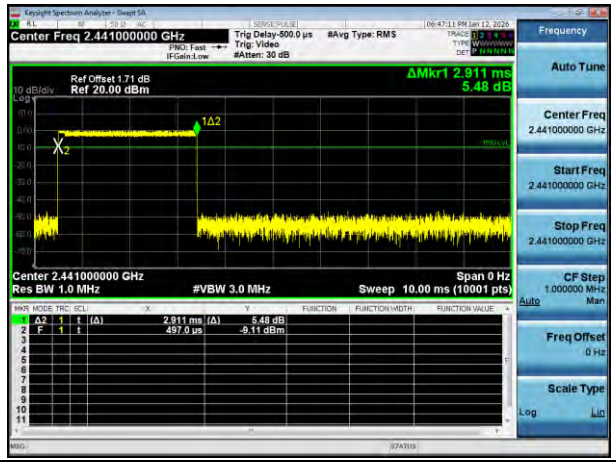
1. A period time = 0.4 (s) * 79 = 31.6(s)
2. DH1 time slot = Pulse Duration * (1600/(2*79)) * A period time

DH3 time slot = Pulse Duration * (1600/(4*79)) * A period time

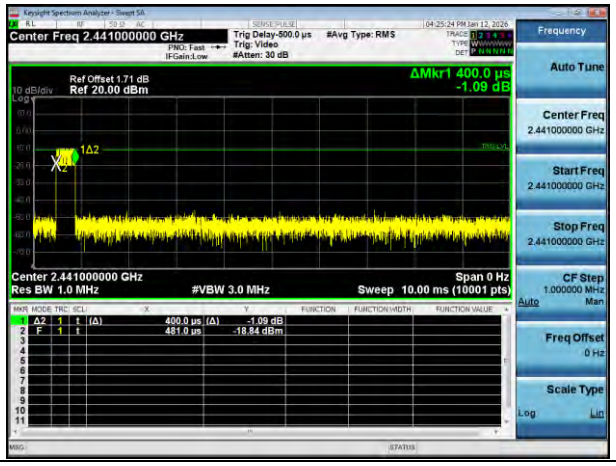
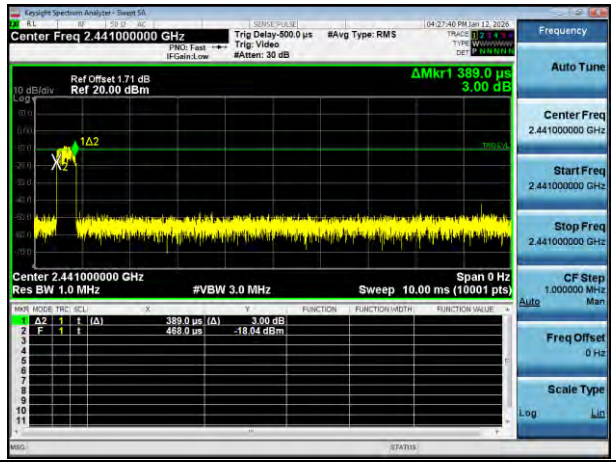
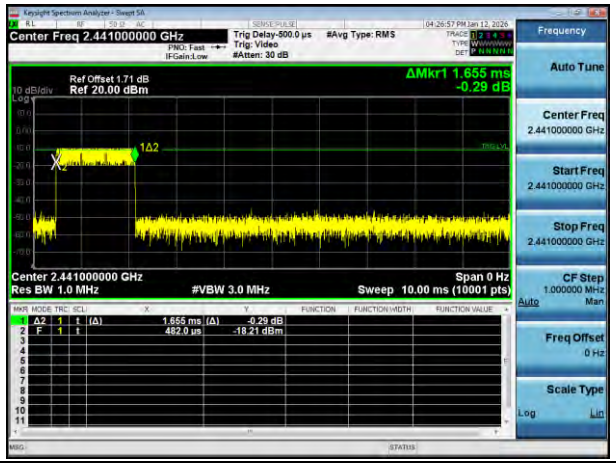
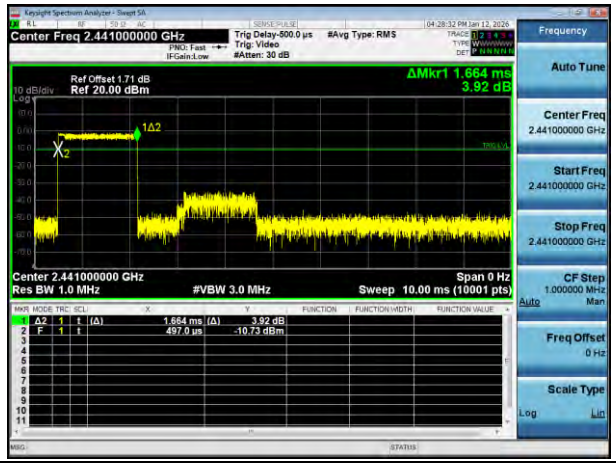
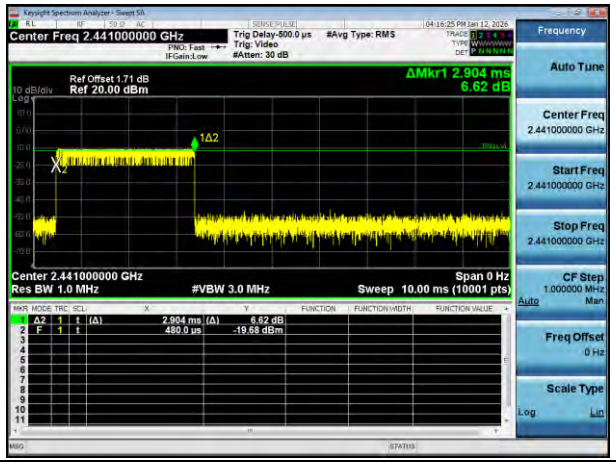
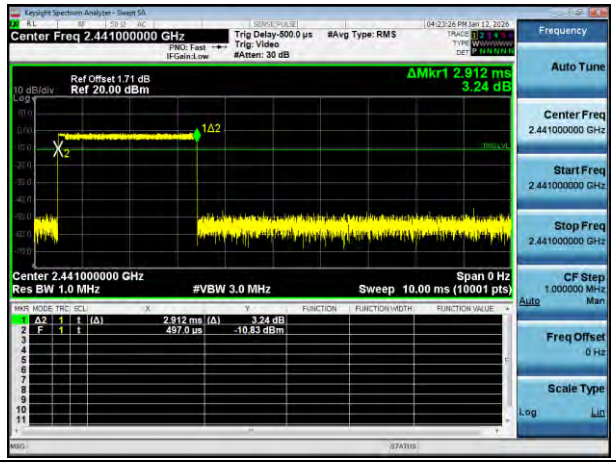
DH5 time slot = Pulse Duration * (1600/(6*79)) * A period time

3. For GFSK, π/4-DQPSK and 8DPSK: The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Left earphone:

GFSK(2441MHz)	Pi/4 DQPSK (2441MHz)
Burst(DH1)  	Burst(2DH1) 
Burst(DH3)  	Burst(2DH3) 
Burst(DH5)  	Burst(2DH5) 

Right earphone:

GFSK(2441MHz)	Pi/4 DQPSK (2441MHz)
Burst(DH1)  	Burst(2DH1) 
Burst(DH3)  	Burst(2DH3) 
Burst(DH5)  	Burst(2DH5) 

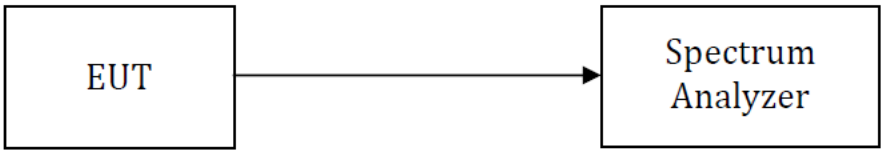
9. Maximum Peak Conducted Output Power

9.1 Standard and Limit

According to 15.247(b)(1). For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

9.2 Test Procedure

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 2MHz, VBW = 6MHz, Sweep = Auto, Detector = Peak.
4) Measure the highest amplitude appearing on spectral display and mark the value.
5) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

9.3 Test Data and Results

Left earphone:

Test Mode	Test Channel MHz	Conducted Output Power (dBm)	Limit (dBm)	Test Result
GFSK	2402	0.36	21	Pass
	2441	-0.07	21	Pass
	2480	-0.03	21	Pass
Pi/4 DQPSK	2402	1.01	21	Pass
	2441	0.71	21	Pass
	2480	0.8	21	Pass

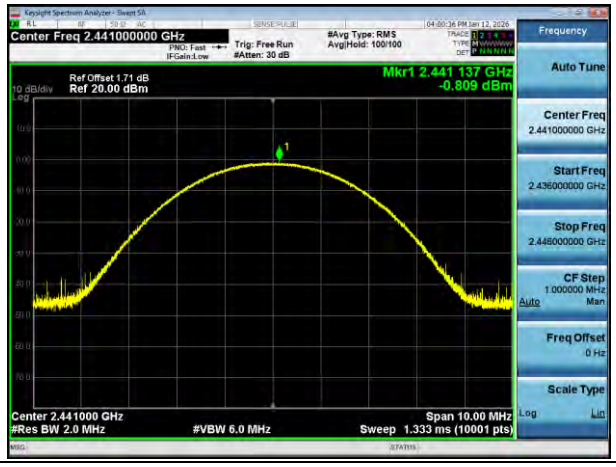
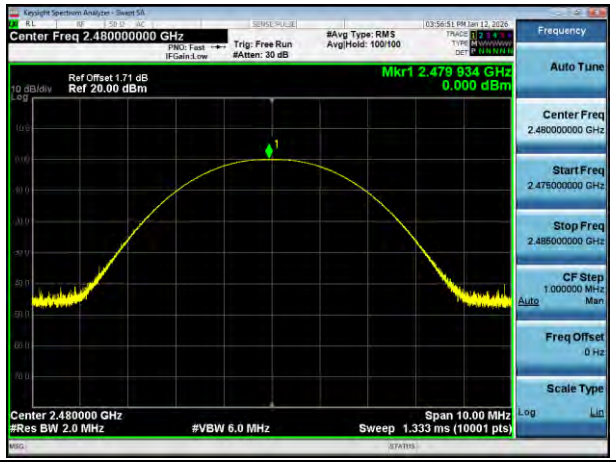
Right earphone:

Test Mode	Test Channel MHz	Conducted Output Power (dBm)	Limit (dBm)	Test Result
GFSK	2402	-3.64	21	Pass
	2441	-1.62	21	Pass
	2480	0	21	Pass
Pi/4 DQPSK	2402	-3	21	Pass
	2441	-0.81	21	Pass
	2480	0.81	21	Pass

Left earphone:

GFSK	Pi/4 DQPSK
2402MHz 	2402MHz
2441MHz 	2441MHz
2480MHz 	2480MHz

Right earphone:

GFSK	Pi/4 DQPSK
2402MHz	2402MHz
2441MHz	2441MHz
	
2480MHz	2480MHz
	

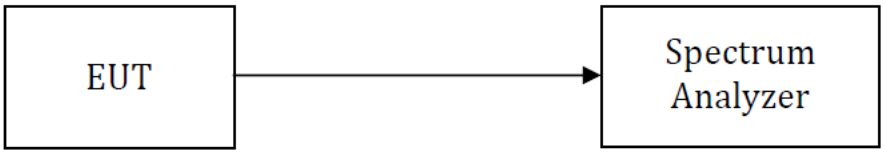
10. Occupied Bandwidth(-20dB)

10.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

10.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.
1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 30kHz, VBW = 100kHz, Sweep = Auto.
4) Set a reference level on the measuring instrument equal to the highest peak value.
5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
6) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

10.3 Test Data and Results

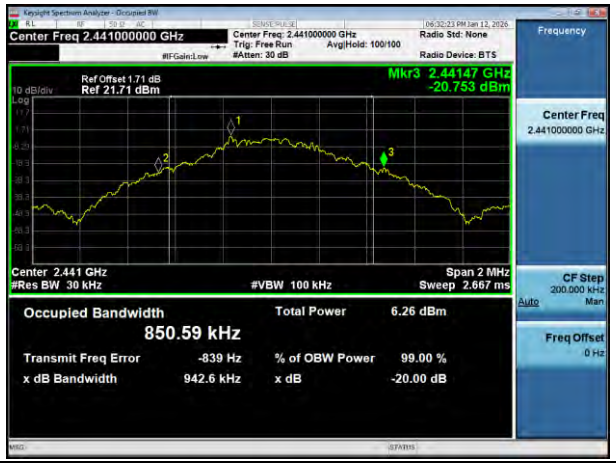
Left earphone:

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (kHz)
GFSK	2402	0.935	849.18
	2441	0.943	850.59
	2480	0.935	846.68
Pi/4 DQPSK	2402	1.271	1167.2
	2441	1.271	1170.4
	2480	1.261	1163

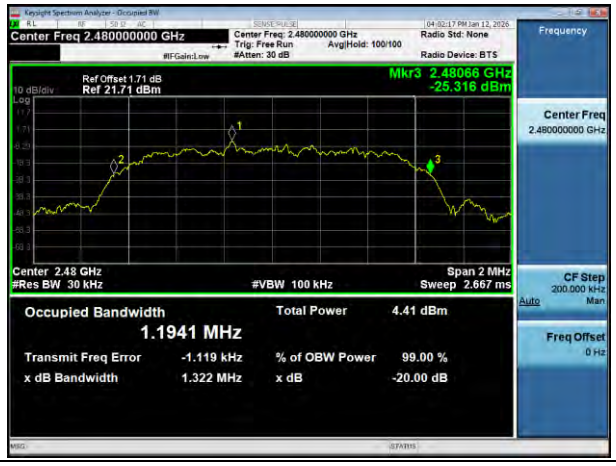
Right earphone:

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (kHz)
GFSK	2402	0.945	851.86
	2441	0.94	846.47
	2480	0.918	836.23
Pi/4 DQPSK	2402	1.274	1166.7
	2441	1.257	1161.5
	2480	1.322	1194.1

Left earphone:

GFSK	Pi/4 DQPSK
2402MHz 	2402MHz
2441MHz  	2441MHz
2480MHz 	2480MHz

Right earphone:

GFSK	Pi/4 DQPSK
2402MHz	2402MHz
2441MHz	2441MHz
2480MHz	2480MHz
	

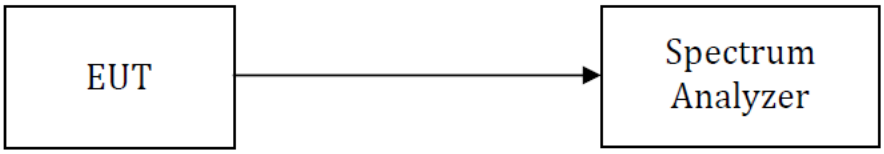
11. Carrier Frequencies Separation

11.1 Standard and Limit

According to FCC 15.247(a)(1), 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, and frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

11.2 Test Procedure

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 30kHz, VBW = 100kHz, Sweep = Auto, Detector = Peak.
4) By using the Max Hold function, record the separation of two adjacent channels.
5) Measure the frequency difference of these two adjacent channels by spectrum analyzer mark function. and then plot the result on the screen of the spectrum analyzer.
6) Repeat above procedures until all frequencies measured were complete.



Test Setup Block Diagram

11.3 Test Data and Results

Left earphone:

Test Mode	Test Channel	Test Freq. 1 (MHz)	Test Freq. 2 (MHz)	CFS (MHz)	Limit (MHz)
GFSK	Lowest	2401.834	2402.844	1.01	0.623
	Middle	2440.978	2441.836	0.858	0.629
	Highest	2478.986	2479.842	0.856	0.623
Pi/4 DQPSK	Lowest	2401.99	2402.838	0.848	0.847
	Middle	2440.826	2441.828	1.002	0.847
	Highest	2478.844	2480.046	1.202	0.841

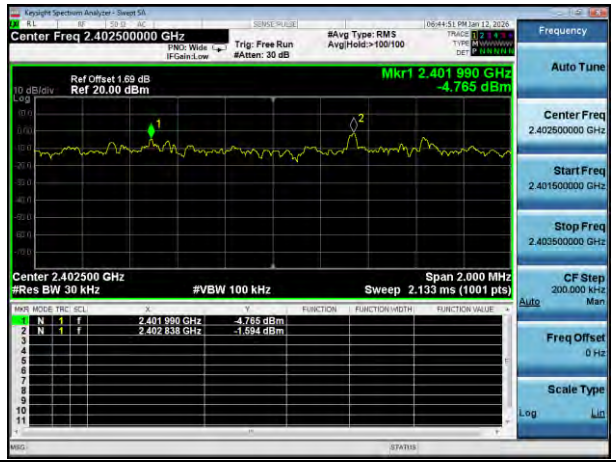
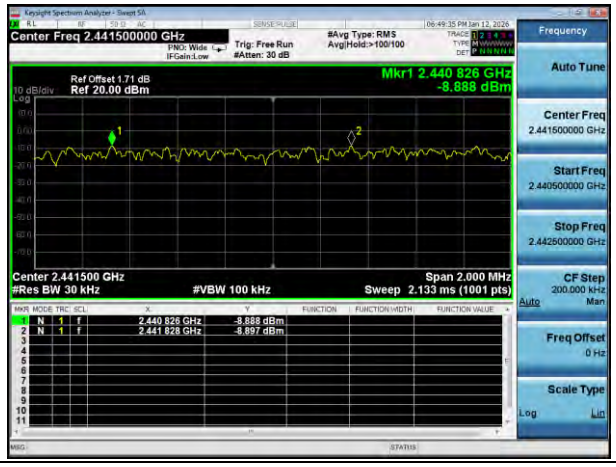
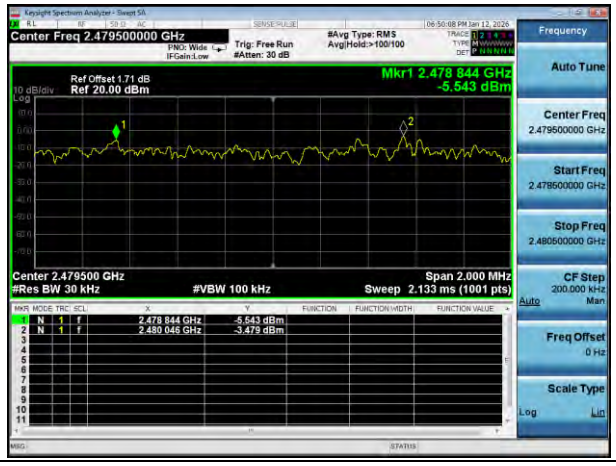
Note: CFS(Channel Frequency Separation) = Test Freq. 2 - Test Freq. 1

Right earphone:

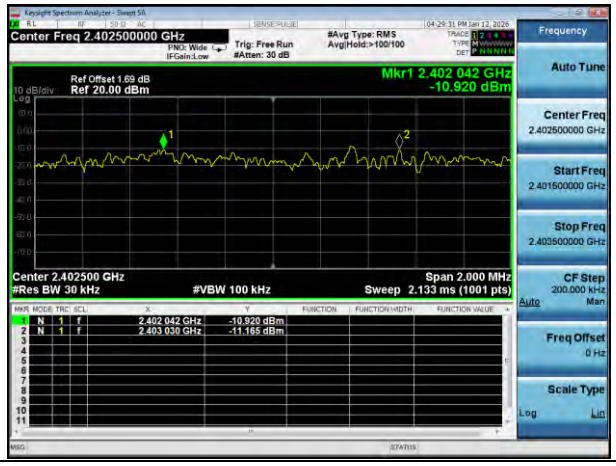
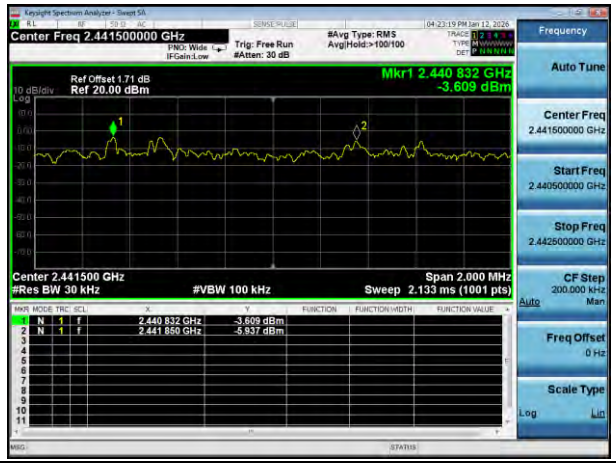
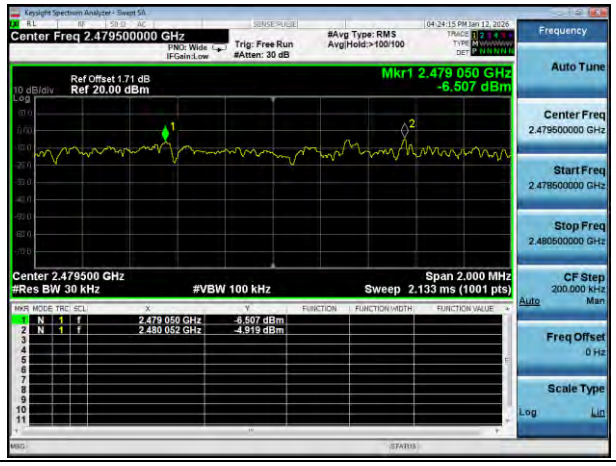
Test Mode	Test Channel	Test Freq. 1 (MHz)	Test Freq. 2 (MHz)	CFS (MHz)	Limit (MHz)
GFSK	Lowest	2401.838	2402.838	1	0.63
	Middle	2440.824	2441.826	1.002	0.627
	Highest	2478.834	2480.016	1.182	0.612
Pi/4 DQPSK	Lowest	2402.042	2403.03	0.988	0.849
	Middle	2440.832	2441.85	1.018	0.838
	Highest	2479.05	2480.052	1.002	0.881

Note: CFS(Channel Frequency Separation) = Test Freq. 2 - Test Freq. 1

Left earphone:

GFSK	Pi/4 DQPSK
Lowest	Lowest
	
Middle	Middle
	
Highest	Highest
	

Right earphone:

GFSK	Pi/4 DQPSK
Lowest	Lowest
	
Middle	Middle
	
Highest	Highest
	

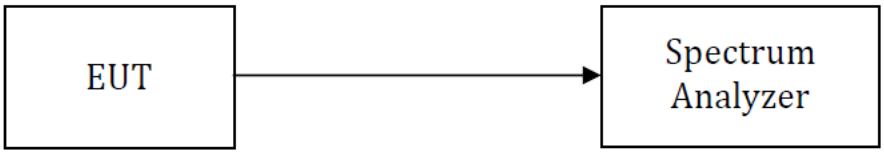
12. Number of Hopping Channel

12.1 Standard and Limit

According to FCC 15.247(a)(1), 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, and frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

12.2 Test Procedure

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.
4) Set the spectrum analyzer on Max hold mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
5) Set the spectrum analyzer on View mode and then plot the result on the screen of the spectrum analyzer.
6) Repeat the above procedures until all frequencies measured were complete.



Test Setup Block Diagram

12.3 Test Data and Results

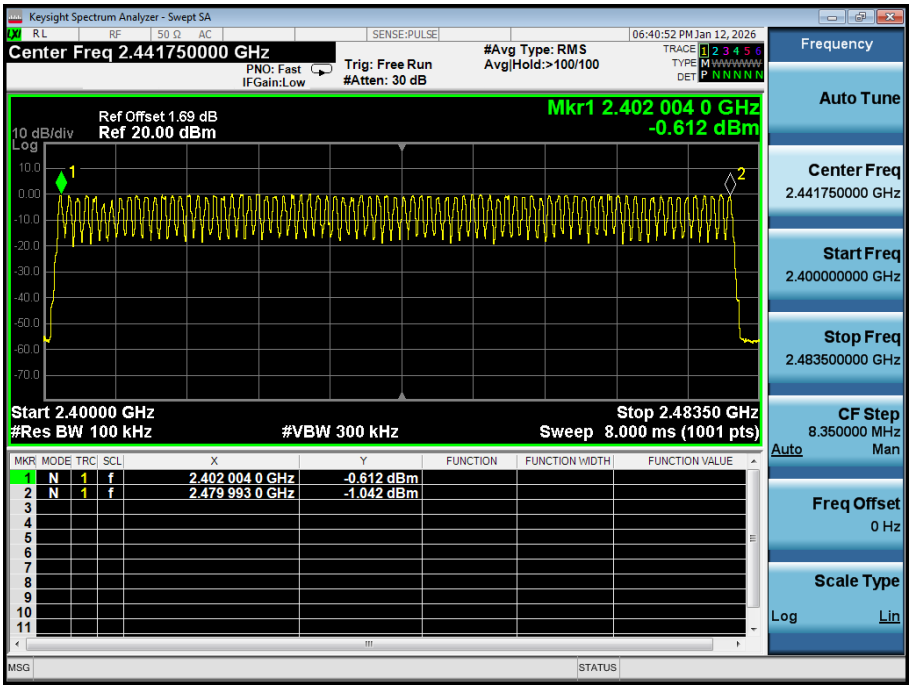
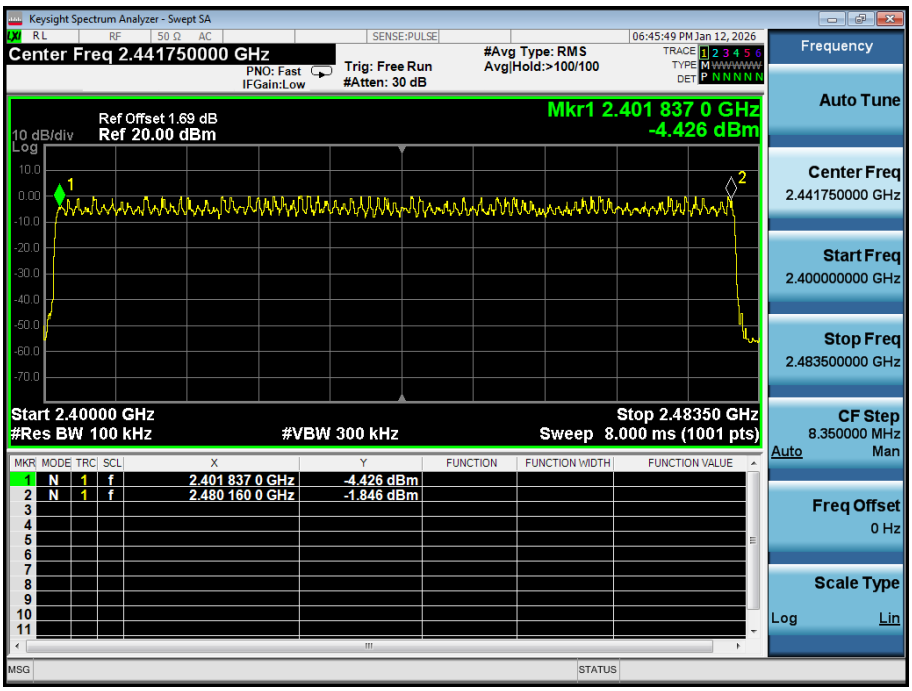
Left earphone:

Test Mode	Number of Hopping Channel	Limit	Test Result
GFSK	79	15	Pass
Pi/4 DQPSK	79	15	Pass

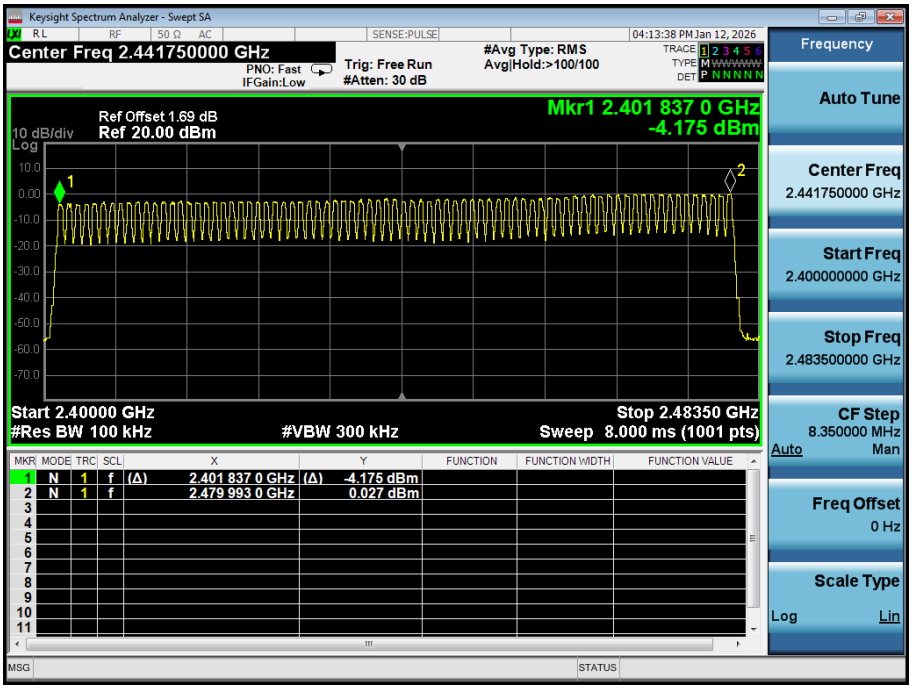
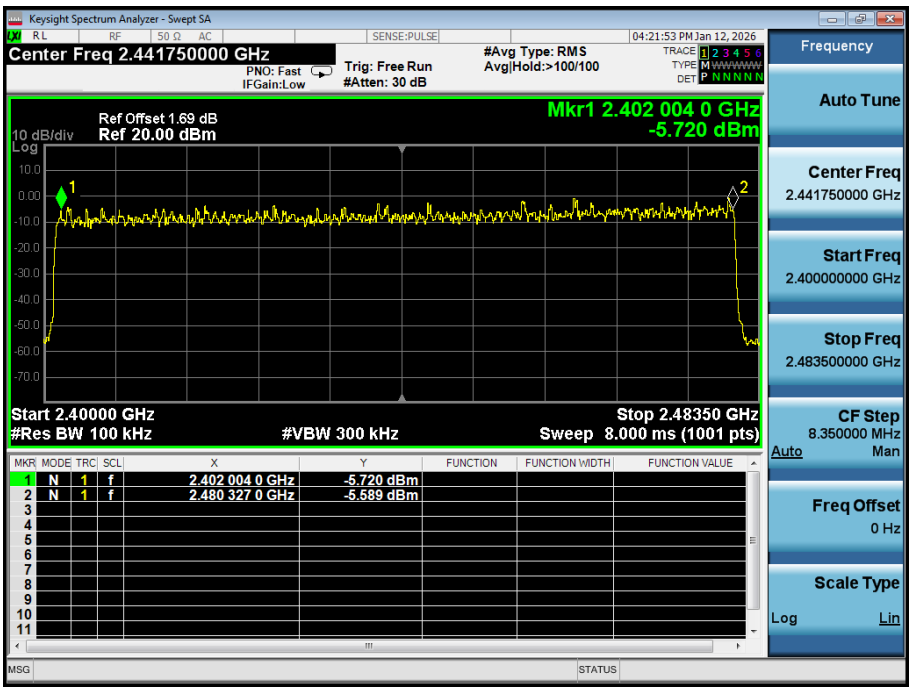
Right earphone:

Test Mode	Number of Hopping Channel	Limit	Test Result
GFSK	79	15	Pass
Pi/4 DQPSK	79	15	Pass

Left earphone:

Number of Hopping Channel
GFSK 
Pi/4 DQPSK 

Right earphone:

Number of Hopping Channel
GFSK 
Pi/4 DQPSK 

13. Band-edge Emission(Conducted)

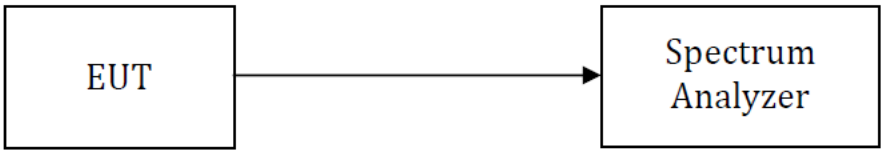
13.1 Standard and Limit

According to §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)).

13.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2020 section 6.10.

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.
4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
5) Set a convenient frequency span including 100 kHz bandwidth from band edge.
6) Measure the emission and marking the edge frequency.
7) Repeat above procedures until all frequencies measured were complete.



Test Setup Block Diagram

13.3 Test Data and Results

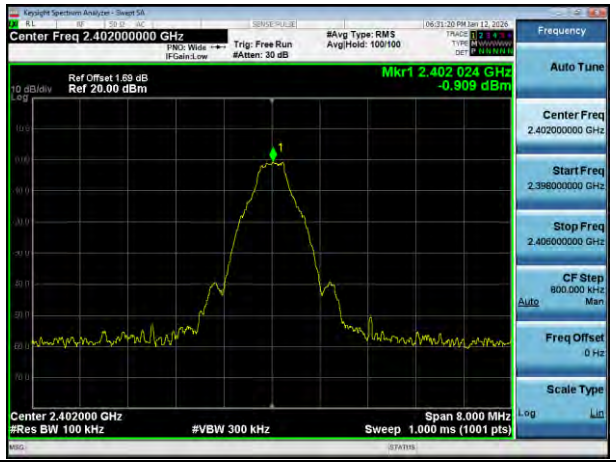
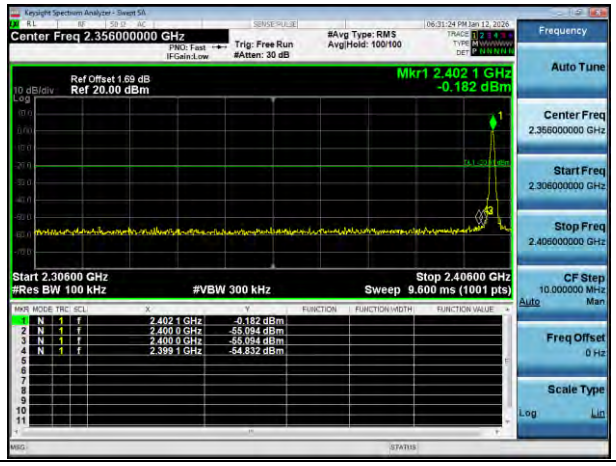
Left earphone:

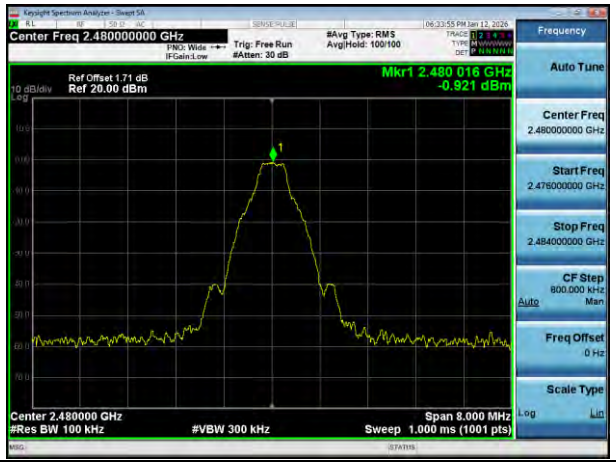
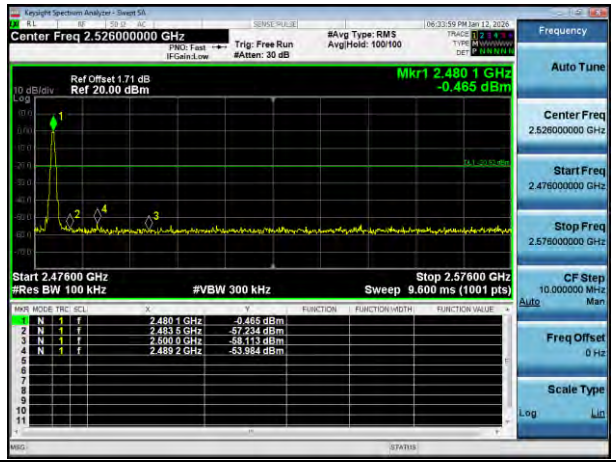
Test Mode	Band-edge	Test Channel (MHz)	Max. Value (dBc)	Limit (dBc)	Test Result
No-Hopping					
GFSK	Lowest	2402	-53.92	-20	Pass
	Highest	2480	-53.06	-20	Pass
Pi/4 DQPSK	Lowest	2402	-49.16	-20	Pass
	Highest	2480	-52.92	-20	Pass
Hopping					
GFSK	Lowest	2402	-54.25	-20	Pass
	Highest	2480	-53.2	-20	Pass
Pi/4 DQPSK	Lowest	2402	-54.42	-20	Pass
	Highest	2480	-53.61	-20	Pass

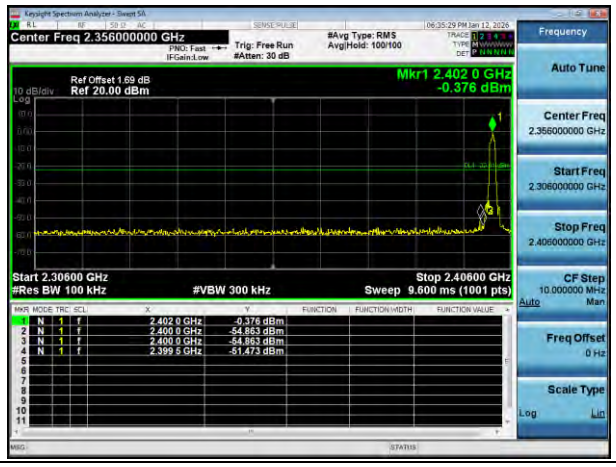
Right earphone:

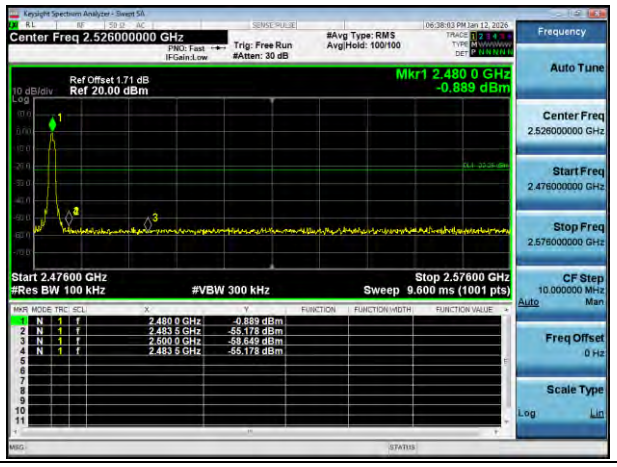
Test Mode	Band-edge	Test Channel (MHz)	Max. Value (dBc)	Limit (dBc)	Test Result
No-Hopping					
GFSK	Lowest	2402	-51.18	-20	Pass
	Highest	2480	-52.12	-20	Pass
Pi/4 DQPSK	Lowest	2402	-49.78	-20	Pass
	Highest	2480	-52.95	-20	Pass
Hopping					
GFSK	Lowest	2402	-49.95	-20	Pass
	Highest	2480	-53.74	-20	Pass
Pi/4 DQPSK	Lowest	2402	-50.22	-20	Pass
	Highest	2480	-53.03	-20	Pass

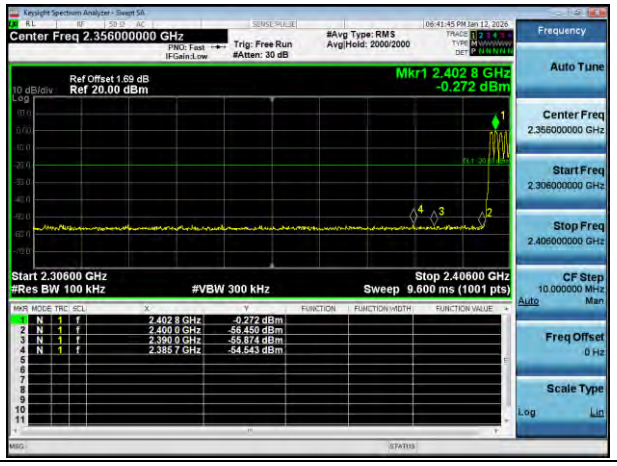
Left earphone:

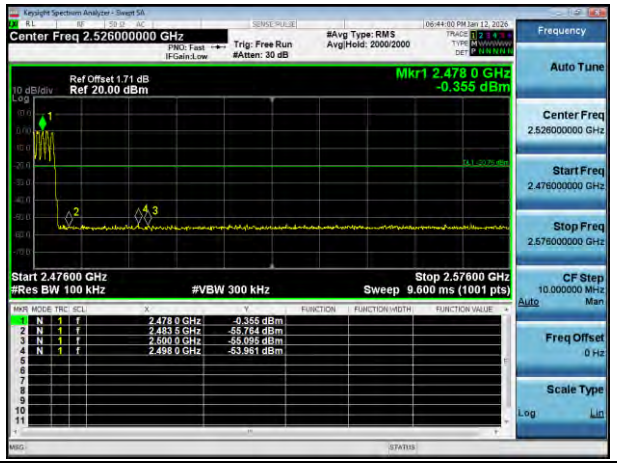
No-Hopping GFSK Lowest	
Reference Power	Band-edge Emission
	

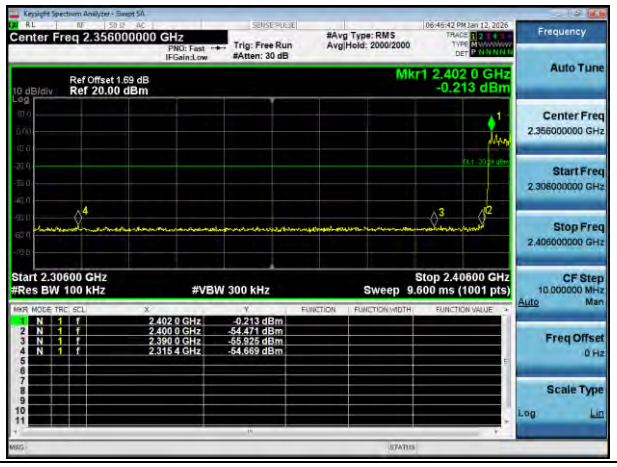
No-Hopping GFSK Highest	
Reference Power	Band-edge Emission
	

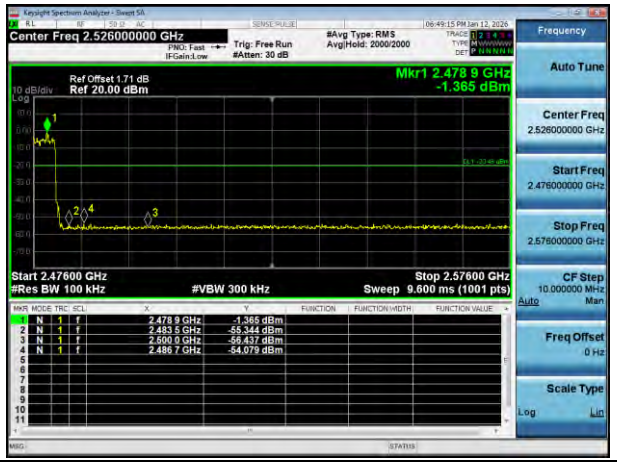
No-Hopping Pi/4 DQPSK Lowest	
Reference Power	Band-edge Emission
	

No-Hopping Pi/4 DQPSK Highest	
Reference Power	Band-edge Emission
	

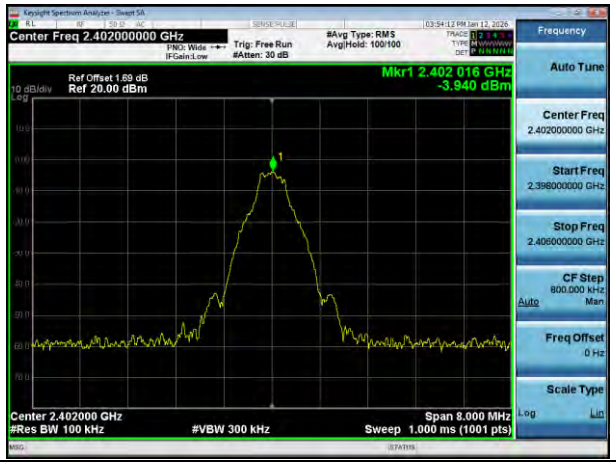
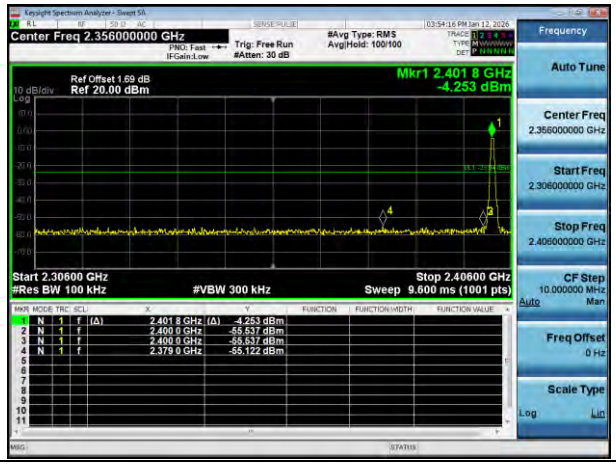
Hopping GFSK Lowest	
Reference Power	Band-edge Emission
	

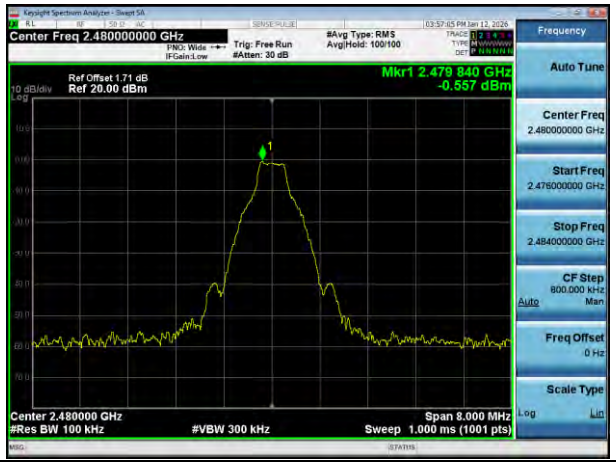
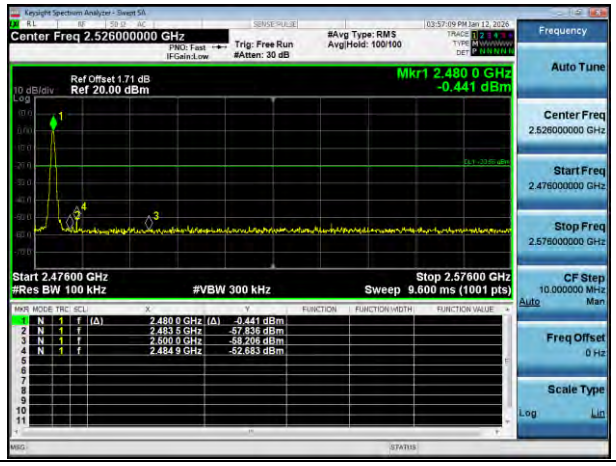
Hopping GFSK Highest	
Reference Power	Band-edge Emission
	

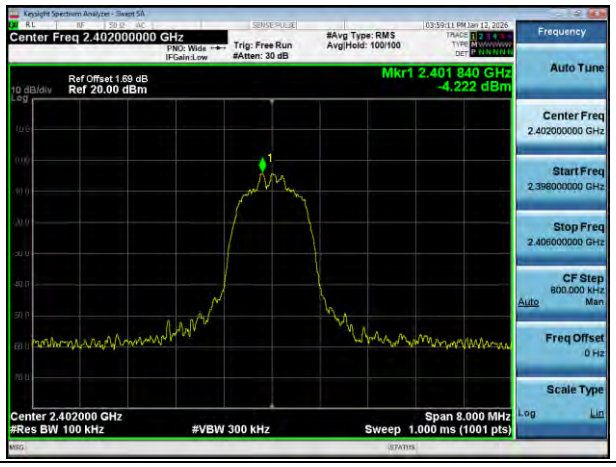
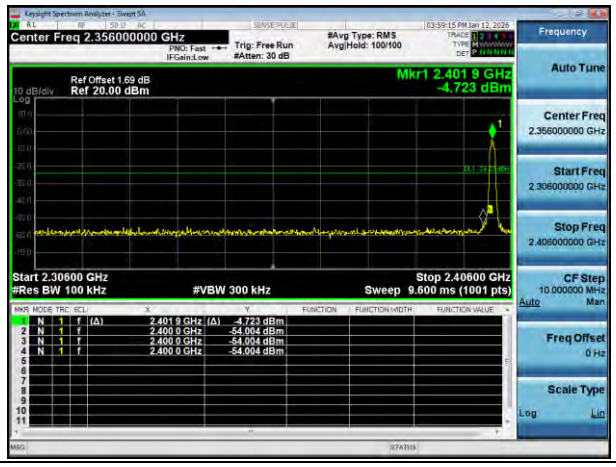
Hopping Pi/4 DQPSK Lowest	
Reference Power	Band-edge Emission
	

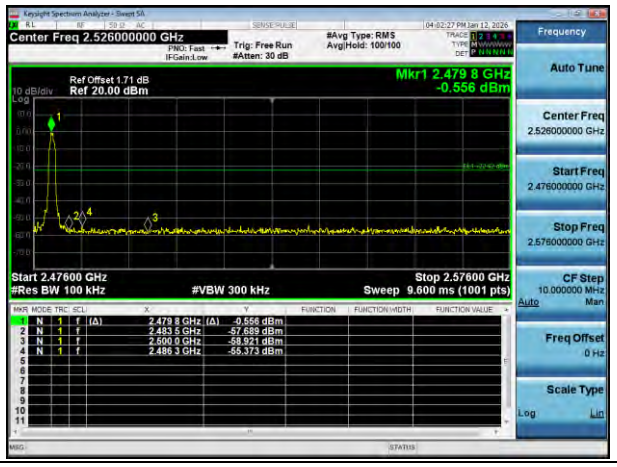
Hopping Pi/4 DQPSK Highest	
Reference Power	Band-edge Emission
	

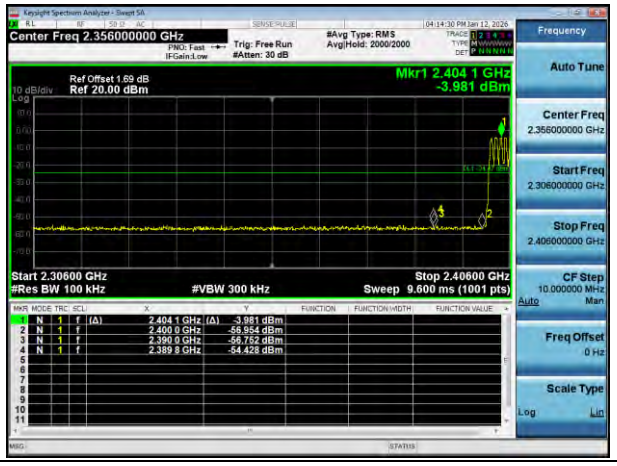
Right earphone:

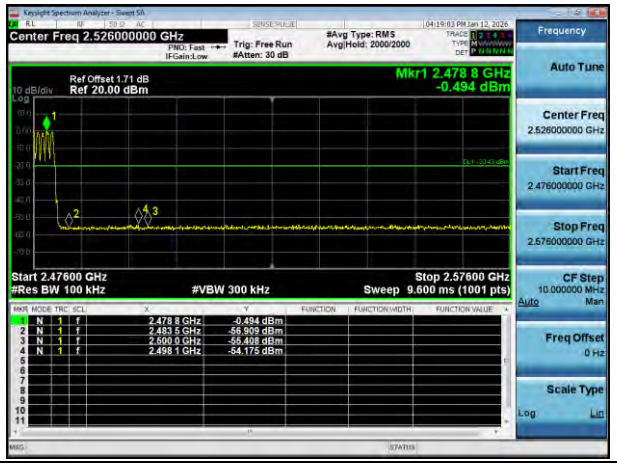
No-Hopping GFSK Lowest	
Reference Power	Band-edge Emission
	

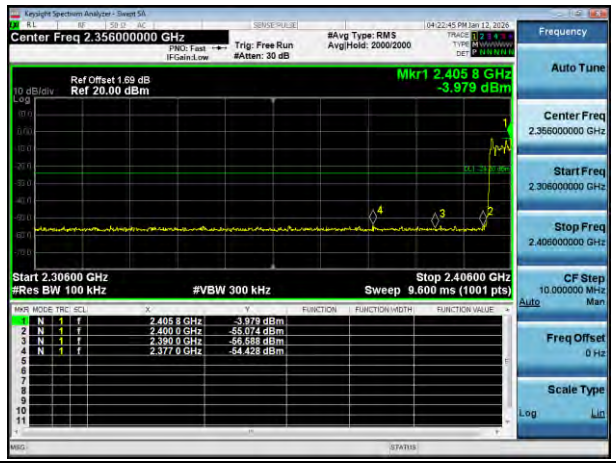
No-Hopping GFSK Highest	
Reference Power	Band-edge Emission
	

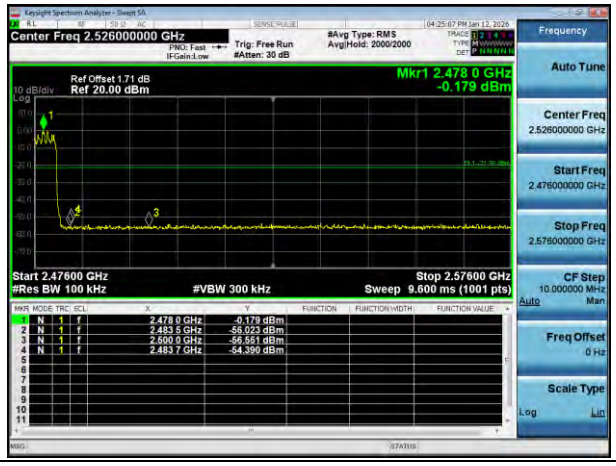
No-Hopping Pi/4 DQPSK Lowest	
Reference Power	Band-edge Emission
	

No-Hopping Pi/4 DQPSK Highest	
Reference Power	Band-edge Emission
	

Hopping GFSK Lowest	
Reference Power	Band-edge Emission
	

Hopping GFSK Highest	
Reference Power	Band-edge Emission
	

Hopping Pi/4 DQPSK Lowest	
Reference Power	Band-edge Emission
	

Hopping Pi/4 DQPSK Highest	
Reference Power	Band-edge Emission
	

14. Conducted RF Spurious Emissions

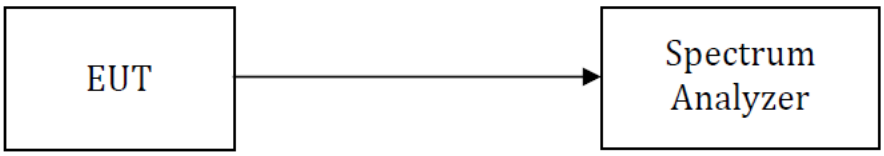
14.1 Standard and Limit

According to §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)).

14.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2020 section 6.7.

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 100kHz, VBW = 300kHz, Sweep = Auto, Detector = Peak.
4) Measure the highest amplitude appearing on spectral display and set it as a reference level.
5) Measure the spurious emissions with frequency range from 9kHz to 26.5GHz.
6) Repeat above procedures until all measured frequencies were complete.



Test Setup Block Diagram

14.3 Test Data and Results

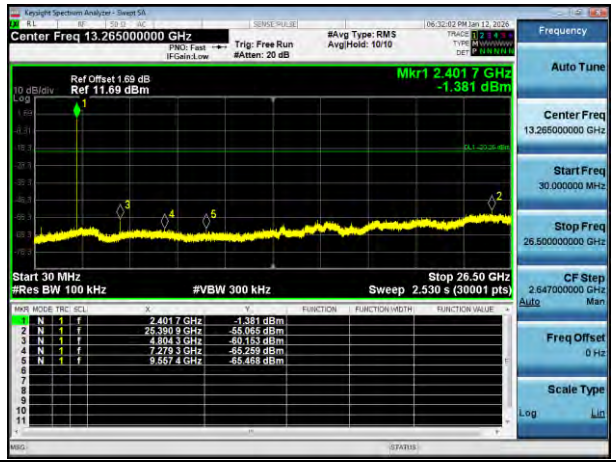
Note: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions measurement data.

Left earphone:

GFSK Lowest

Reference Power

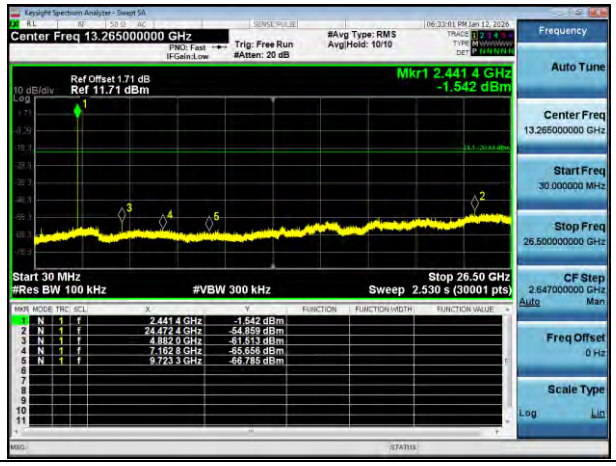
Spurious Emissions



GFSK Middle

Reference Power

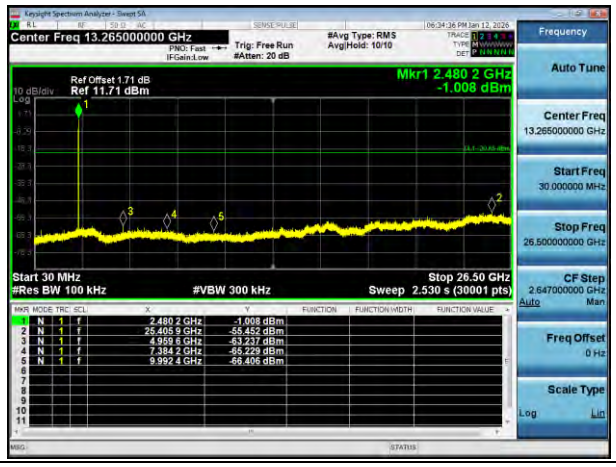
Spurious Emissions



GFSK Highest

Reference Power

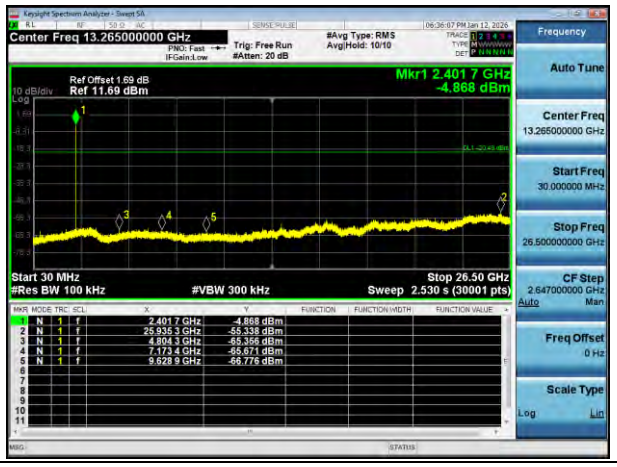
Spurious Emissions



Pi/4 DQPSK Lowest

Reference Power

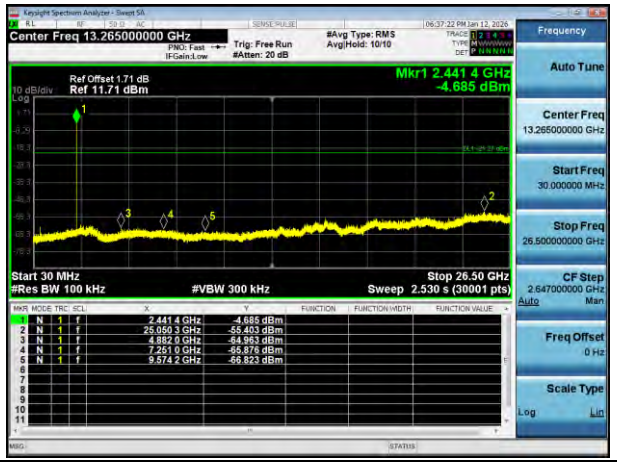
Spurious Emissions



Pi/4 DQPSK Middle

Reference Power

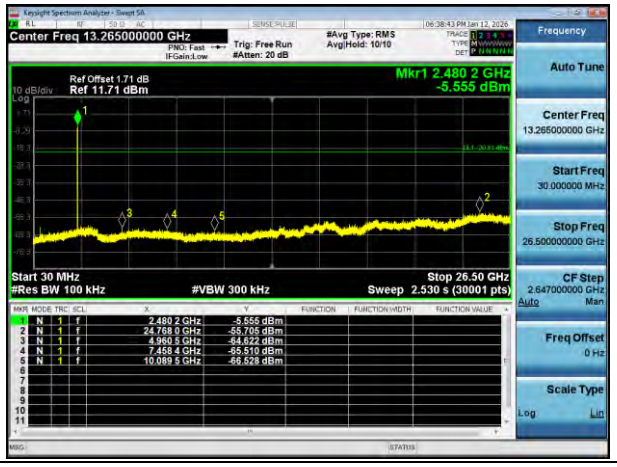
Spurious Emissions



Pi/4 DQPSK Highest

Reference Power

Spurious Emissions

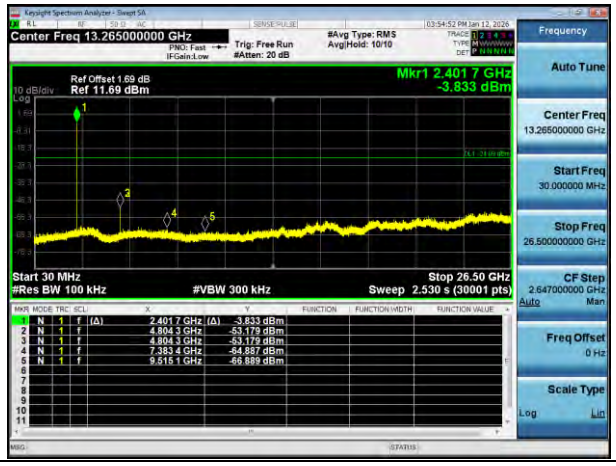


Right earphone:

GFSK Lowest

Reference Power

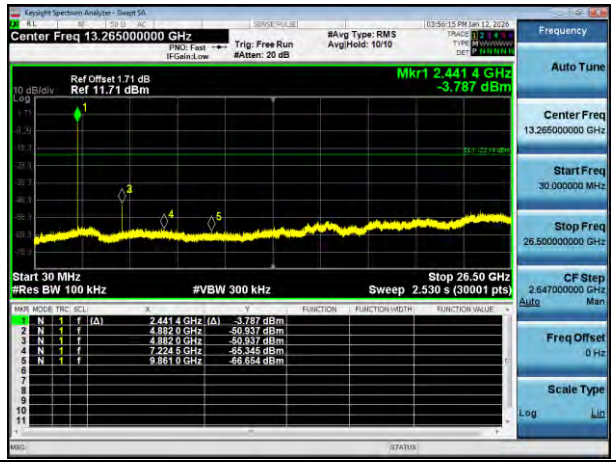
Spurious Emissions



GFSK Middle

Reference Power

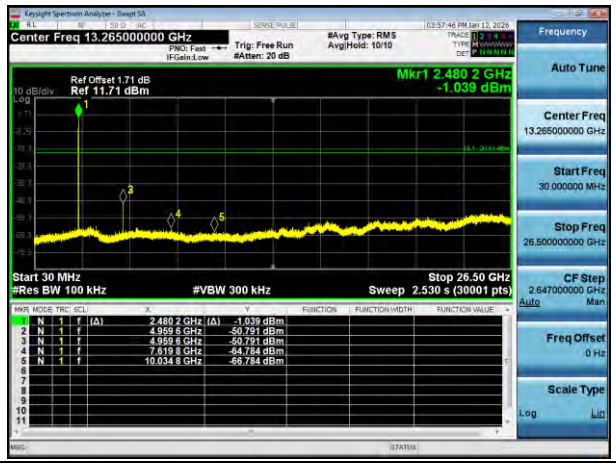
Spurious Emissions



GFSK Highest

Reference Power

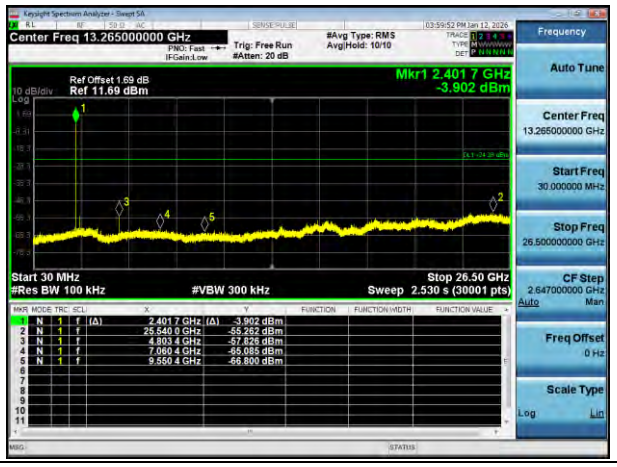
Spurious Emissions



Pi/4 DQPSK Lowest

Reference Power

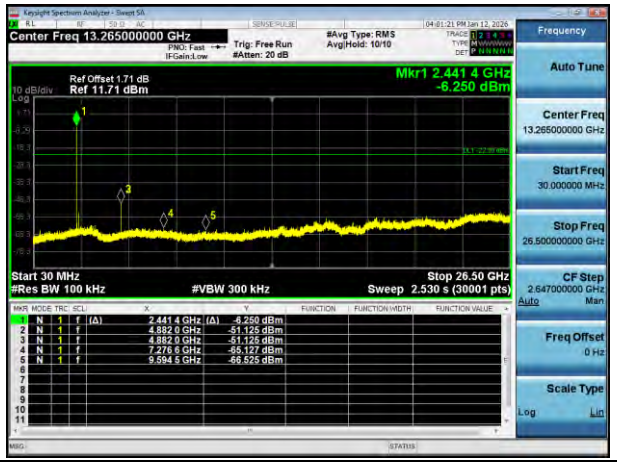
Spurious Emissions



Pi/4 DQPSK Middle

Reference Power

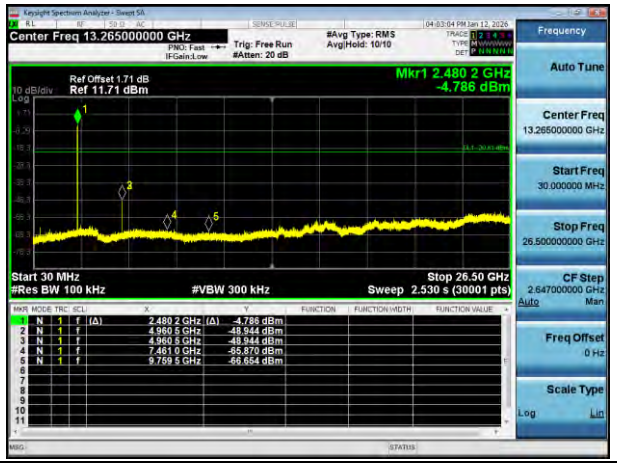
Spurious Emissions



Pi/4 DQPSK Highest

Reference Power

Spurious Emissions



******* END OF REPORT *******