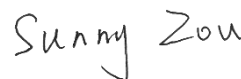
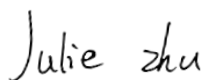


TEST REPORT

Applicant: Tiinlab Corporation
Address: No. 3333, Liuxian Avenue, Tower A, 35th Floor,
Tanglang City, Nanshan District, Shenzhen, China
Equipment Type: Wireless Earphones
Model Name: Q21-
Brand Name: 1MORE
FCC ID: 2ASDI-Q21
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Nov. 01, 2024
Test Date: Nov. 05, 2024 - Nov. 29, 2024
Date of Issue: Dec. 20, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 20, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Tiinlab Corporation
Address	No. 3333, Liuxian Avenue, Tower A, 35th Floor, Tanglang City, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Tiinlab Corporation
Address	No. 3333, Liuxian Avenue, Tower A, 35th Floor, Tanglang City, Nanshan District, Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wireless Earphones
Model Name Under Test	Q21-
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V2.0
Software Version	V1.5
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE)
-----------------------------------	------------------------

The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS	
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK	
Product Type	☐ Mobile ☒ Portable ☐ Fix Location	
Transfer Rate	DH5: 1 Mbps 2DH5: 2 Mbps 3DH5: 3 Mbps	
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.	
Number of Channel	79 (at intervals of 1 MHz)	
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz)	
Antenna Type	Left Earphone	FPC Antenna
	Right Earphone	
Antenna Gain	Left Earphone	-1.56 dBi
	Right Earphone	0.63 dBi
Antenna Impedance	50 Ω	
Antenna System (MIMO Smart Antenna)	N/A	

All channel was listed on the following table:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	2402	21	2423	42	2444	63	2465
1	2403	22	2424	43	2445	64	2466
2	2404	23	2425	44	2446	65	2467
3	2405	24	2426	45	2447	66	2468
4	2406	25	2427	46	2448	67	2469
5	2407	26	2428	47	2449	68	2470
6	2408	27	2429	48	2450	69	2471
7	2409	28	2430	49	2451	70	2472
8	2410	29	2431	50	2452	71	2473
9	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	78	2480
16	2418	37	2439	58	2460	-	-
17	2419	38	2440	59	2461	-	-
18	2420	39	2441	60	2462	-	-
19	2421	40	2442	61	2463	-	-
20	2422	41	2443	62	2464	-	-

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

3.2 Test Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	--	Pass	Note ¹
2	Number of Hopping Frequencies	15.247(a)	Hopping Mode	ANNEX A.1	Pass	Note ²
3	Peak Output Power	15.247(b)	Low/Middle/High	ANNEX A.2	Pass	--
4	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.3	Pass	--
5	Carrier Frequency Separation	15.247(a)	Hopping Mode	ANNEX A.4	Pass	Note ²
6	Time of Occupancy (Dwell time)	15.247(a)	Hopping Mode	ANNEX A.5	Pass	Note ²
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Hopping Mode; Low/Middle/High	ANNEX A.6	Pass	Note ²
8	Conducted Emission	15.207	Low/Middle/High	ANNEX A.7	Pass	Note ²
9	Radiated Spurious Emission	15.209 15.247(d)	Low/Middle/High	ANNEX A.8	Pass	Note ²
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Low/High	ANNEX A.9	Pass	Note ²

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note 2: $\pi/4$ -DQPSK is the EDR 2M rate mode, 8-DPSK is the EDR 3M rate mode. The consistency of test results in $\pi/4$ -DQPSK and 8-DPSK is very high. So we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	41% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.2℃ to +25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



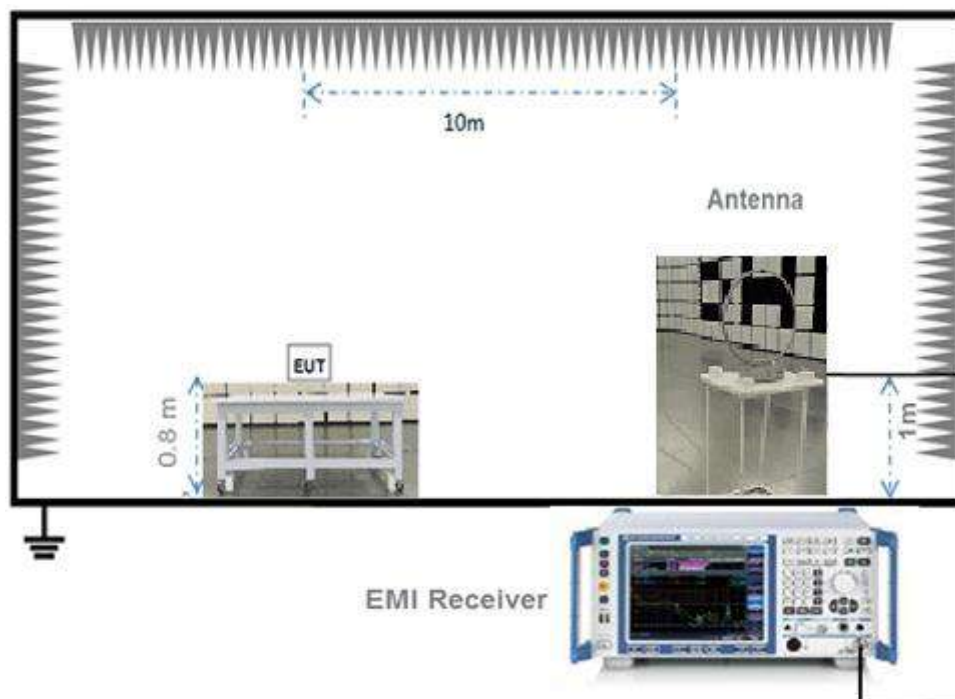
(Diagram 1)

4.5.2 For AC Power Supply Port Test



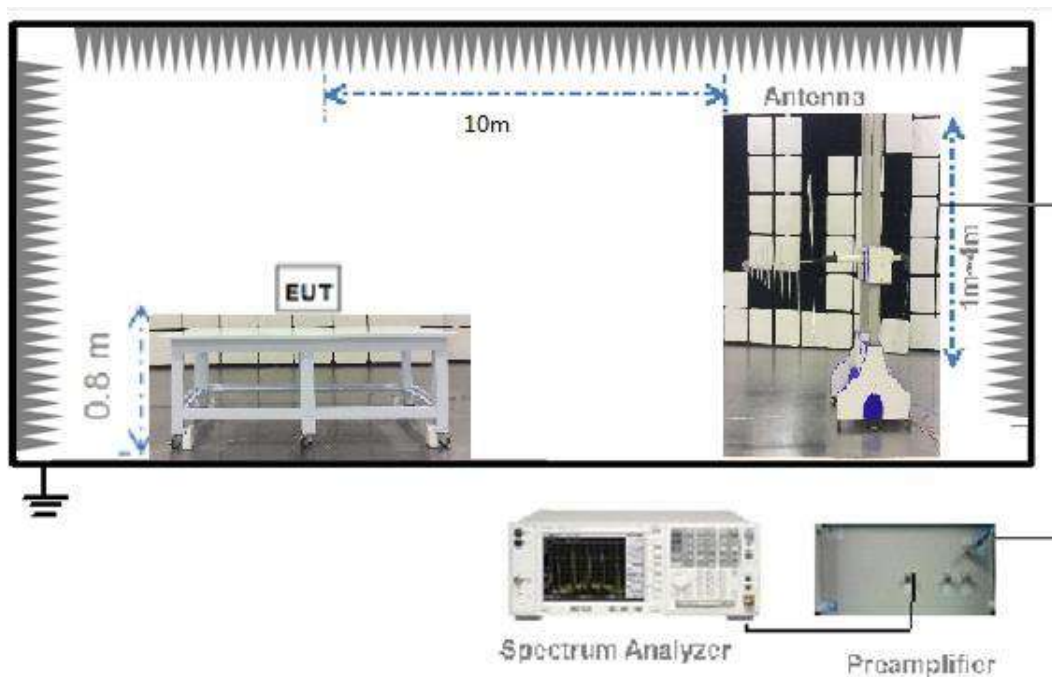
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



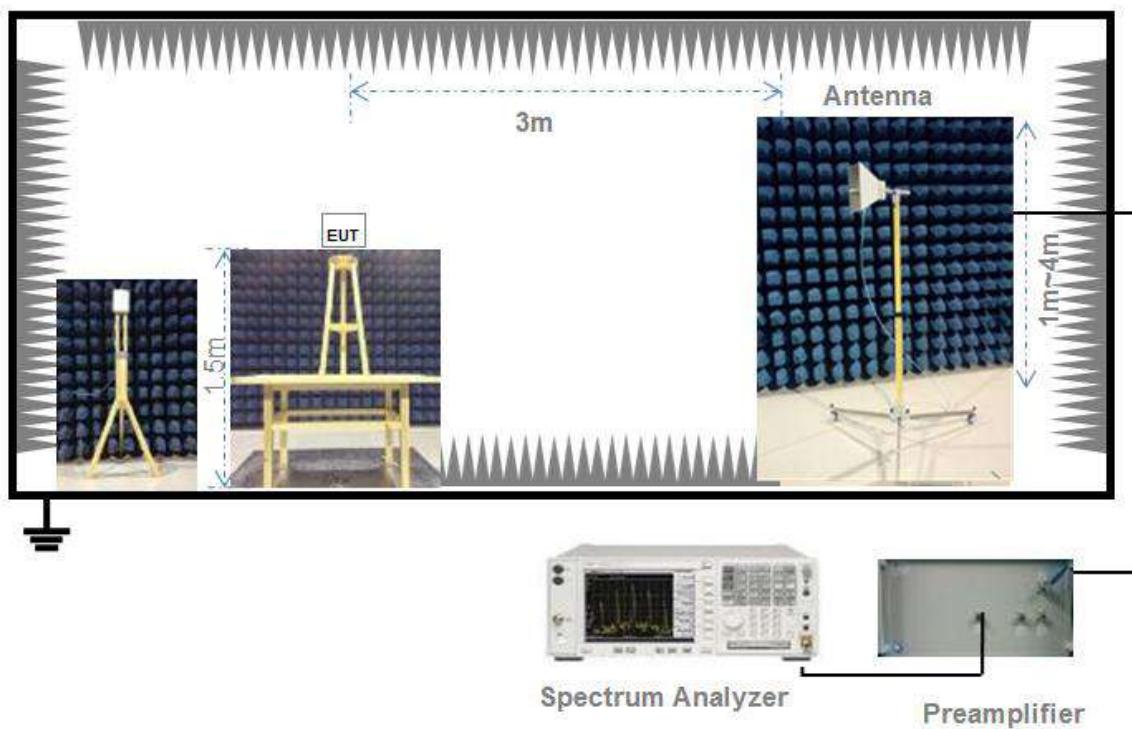
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b)

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Frequency Hopping Systems

5.2.1 Relevant Standards

FCC §15.247(a) (1) (i) (ii) (iii) (iv); FCC §15.247(g); FCC §15.247(h)

Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, to demonstrate that the sequence meets the requirement specified in the definition of an FHSS system. Per the definition in Section 2.1(c), the hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

Describe how the associated receiver(s) complies with the requirement that the input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts, and shall be designed to comply when presented with continuous data (or information) stream.

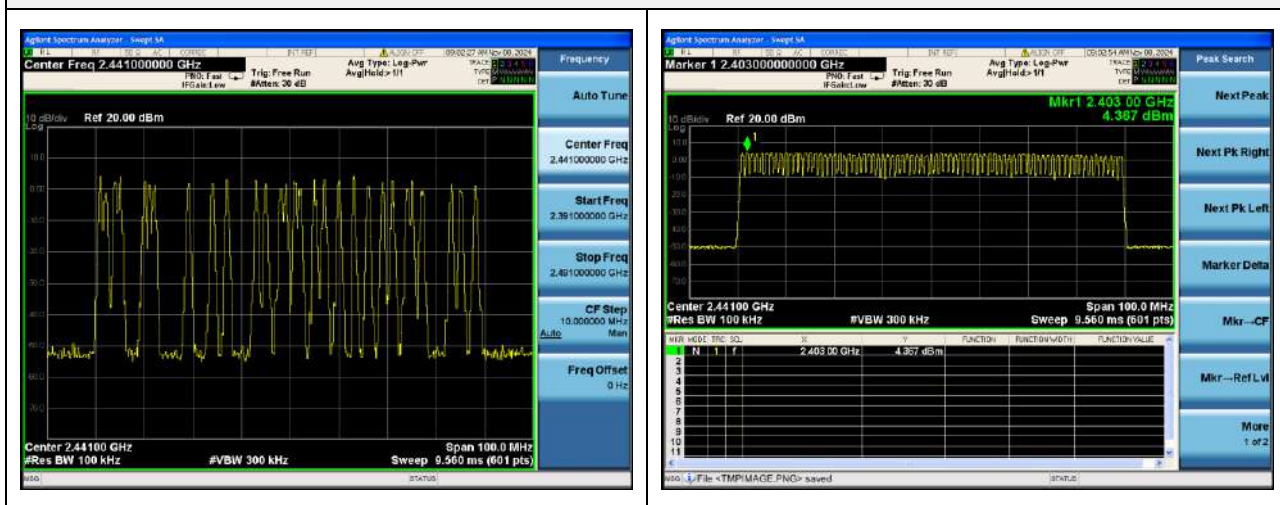
Describe how the EUT complies with the requirement that it not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

5.2.2 Description of the systems

1. According to the preset procedure of the whole network, all the stations in the automatic control network synchronously change the frequency multiple times within one second, and temporarily stay on each frequency hopping channel. Periodic synchronization signaling is sent from the primary station, instructing all slaves to simultaneously change the operating frequency, then the hopping sequence is generated.
2. The hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

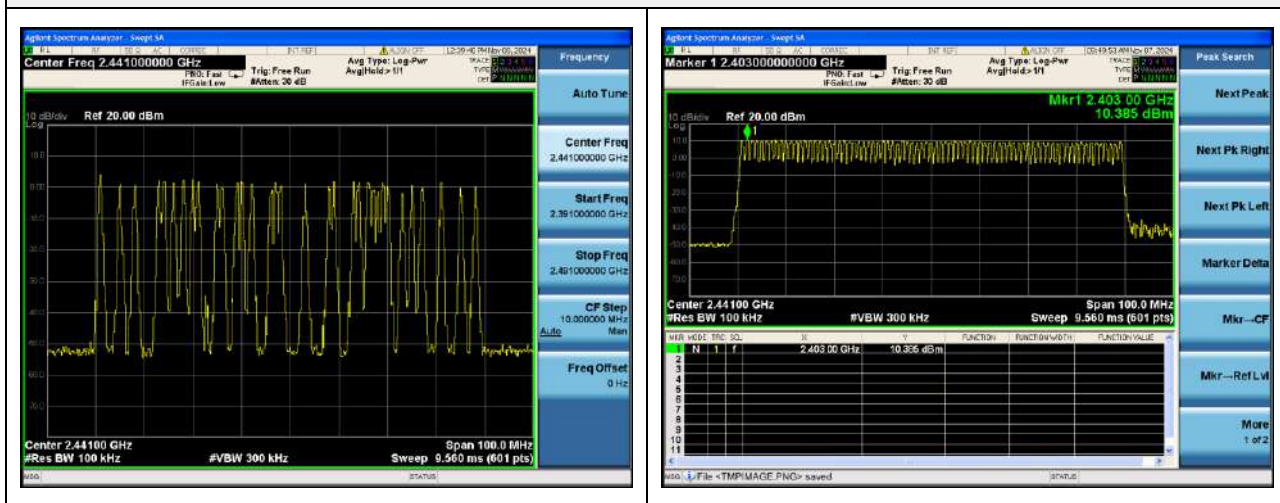
Left Earphone:

Reference Documents



Right Earphone:

Reference Documents



- Channels are classified into two categories, used and unused, where used channels are part of the hopping sequence and unused channels are replaced in the hopping sequence by used channels in a pseudo-random way. Make each individual EUT meets the requirement that each of its hopping channels is used equally on average.
- The input bandwidth and transmitted bandwidth are both 1MHz, the associated receiver(s) complies with the requirement that the input bandwidth matches the bandwidth of the transmitted signal.
- Connected devices communicate on the same physical channel by synchronizing with a common clock and hopping sequence.
- EUT isn't short burst systems.
- EUT can't have the ability to be coordinated with other FHSS systems in an effort.

5.3 Number of Hopping Frequencies

5.3.1 Limit

FCC §15.247(a) (1) (iii)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.3.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = The frequency band of operation

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.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.3.4 Test Result

Please refer to ANNEX A.1.

5.4 Peak Output Power

5.4.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.4.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.2.

5.5 Occupied Bandwidth

5.5.1 Limit

FCC §15.247(a)

Measurement of the 20dB bandwidth of the modulated signal.

5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.5.4 Test Result

Please refer to ANNEX A.3.

5.6 Carrier Frequency Separation

5.6.1 Limit

FCC §15.247(a)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of the 20 dB bandwidth of the hopping channel, whichever is greater.

5.6.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.6.4 Test Result

Please refer to ANNEX A.4.

5.7 Time of Occupancy (Dwell time)

5.7.1 Limit

FCC §15.247(a)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping 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.

5.7.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

Span: Zero span, centered on a hopping channel

RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel

Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel

Detector function: Peak

Trace: Max hold

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

The average time of occupancy on any channel within the Period can be calculated with formulas:

For GFSK and 8-DPSK:

For DH1 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH3 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH5 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For AFH Mode:

For DH1 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH3 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$
$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH5 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$
$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.7.4 Test Result

Please refer to ANNEX A.5.

5.8 Conducted Spurious Emission & Authorized-band band-edge

5.8.1 Limit

FCC §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.

5.8.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW = 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.8.4 Test Result

Please refer to ANNEX A.6.

5.9 Conducted Emission

5.9.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.9.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.7.

5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.10.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.8.

5.11 Band Edge (Restricted-band band-edge)

5.11.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.11.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.11.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Test Data

Left Earphone:

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
GFSK	2400 - 2483.5	79	15	Pass
8-DPSK	2400 - 2483.5	79	15	Pass

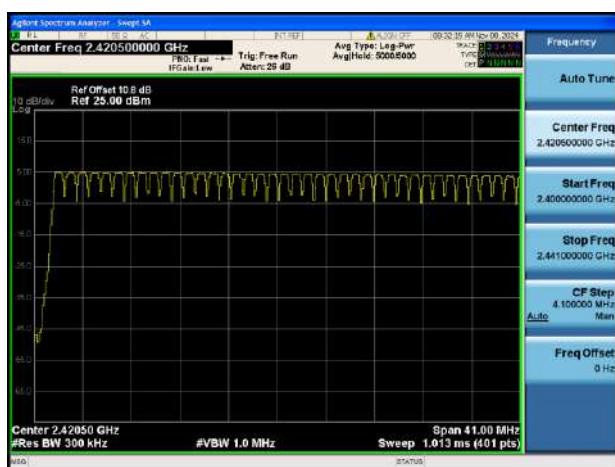
Right Earphone:

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
GFSK	2400 - 2483.5	79	15	Pass
8-DPSK	2400 - 2483.5	79	15	Pass

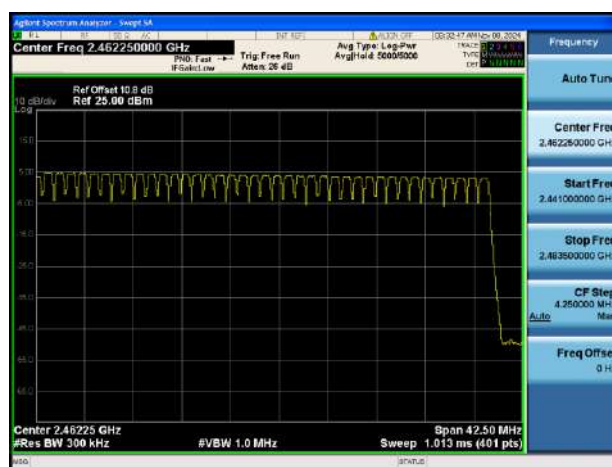
Test Plots

Left Earphone:

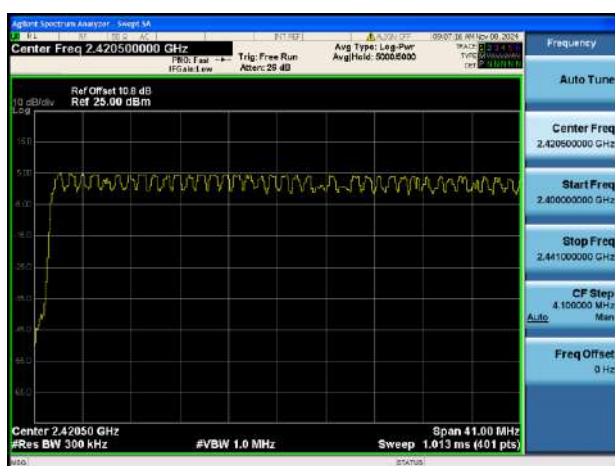
GFSK 2.4 GHz ~ 2.4415 GHz



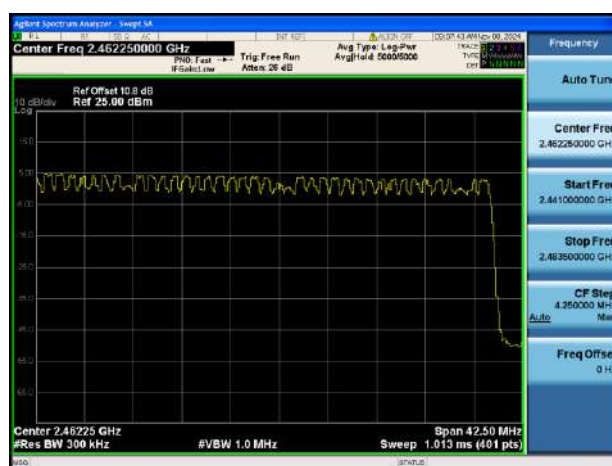
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz

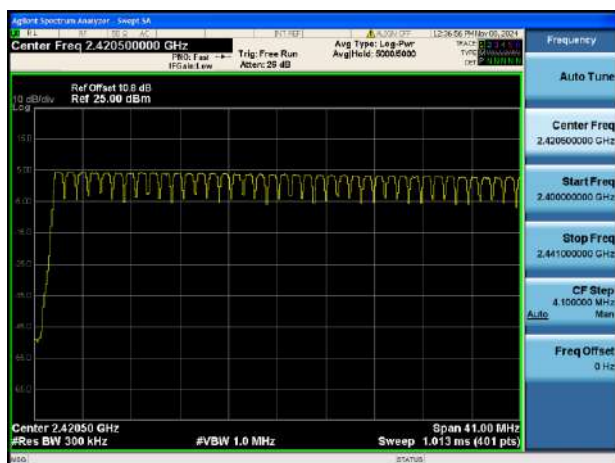


8-DPSK 2.4415 GHz ~ 2.4835 GHz

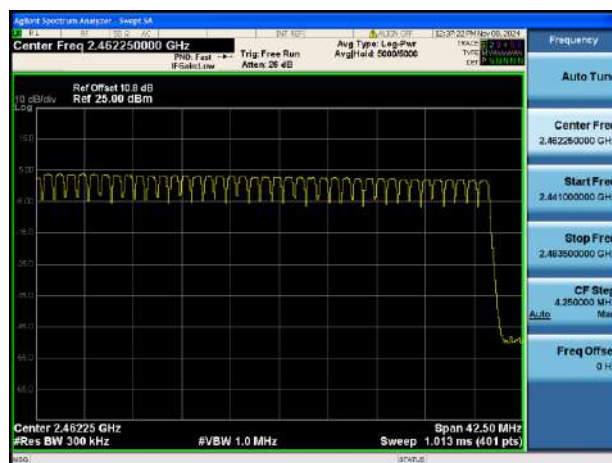


Right Earphone:

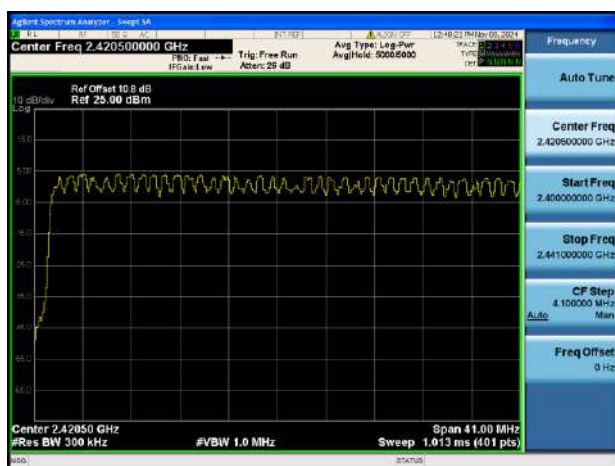
GFSK 2.4 GHz ~ 2.4415 GHz



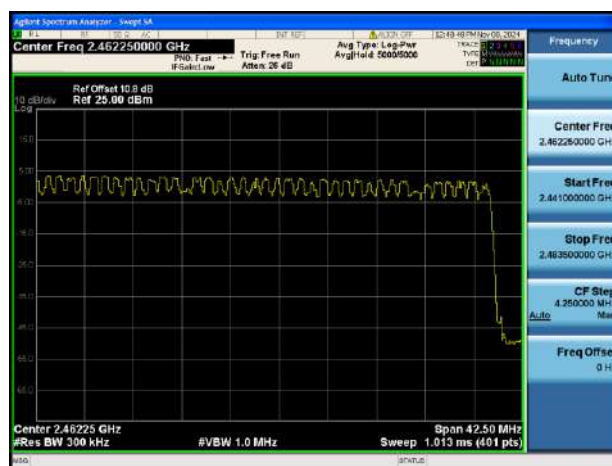
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz



8-DPSK 2.4415 GHz ~ 2.4835 GHz



A.2 Peak Output Power

Left Earphone:

Peak Power Test Data

Channel	Measured Output Peak Power						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	5.28	3.37	5.18	3.30	5.04	3.19	21	125	Pass
Middle	3.81	2.40	4.07	2.55	3.76	2.38			Pass
High	3.25	2.11	3.32	2.15	3.33	2.15			Pass

Right Earphone:

Peak Power Test Data

Channel	Measured Output Peak Power						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	4.30	2.69	4.66	2.93	4.33	2.71	21	125	Pass
Middle	2.67	1.85	2.81	1.91	2.67	1.85			Pass
High	1.96	1.57	1.89	1.55	1.82	1.52			Pass

Test Plots

Left Earphone:

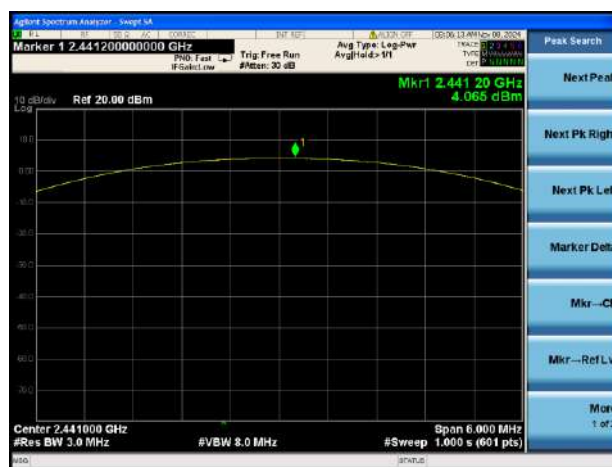
GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

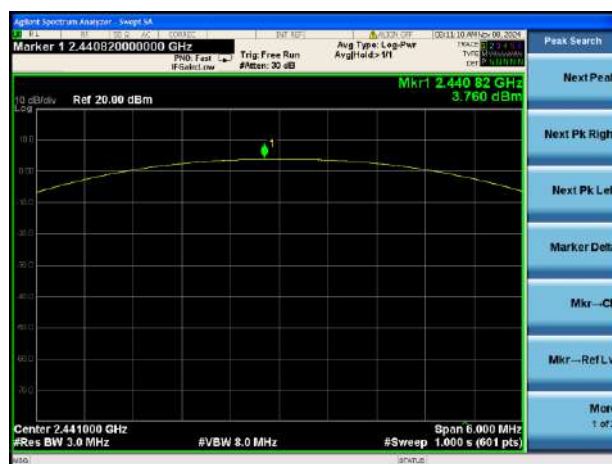
$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



Right Earphone:

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.3 20 dB and 99% bandwidth

Test Data

Left Earphone:

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.050000	0.984250
Middle	1.065200	0.988140
High	1.065200	0.980370
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.274900	1.216700
Middle	1.282500	1.193200
High	1.274900	1.193800
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.290000	1.220500
Middle	1.297400	1.201400
High	1.275100	1.197800

Right Earphone:

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.057400	1.018200
Middle	1.057600	0.996500
High	1.064900	0.988200
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.290000	1.224400
Middle	1.275100	1.197300
High	1.260000	1.182500
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.290000	1.227600
Middle	1.267300	1.203300
High	1.267300	1.181100

Test Plots

Left Earphone:

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



99% Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



Right Earphone:

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



99% Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

 $\pi/4$ -DQPSK LOW CHANNEL $\pi/4$ -DQPSK MIDDLE CHANNEL

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.4 Hopping Frequency Separation

Test Data

Left Earphone:

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.710	Pass
8-DPSK	1.000	0.865	Pass

Right Earphone:

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.710	Pass
8-DPSK	1.000	0.860	Pass

Test Plots

Left Earphone:

GFSK

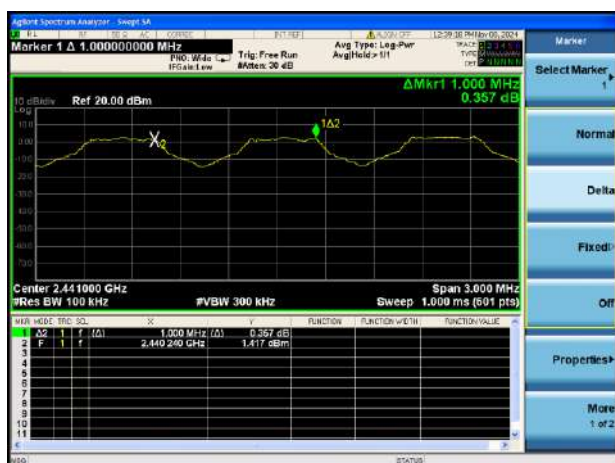


8-DPSK



Right Earphone:

GFSK



8-DPSK



A.5 Average Time of Occupancy

Test Data

Left Earphone:

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.40480	129.536	0.4	Pass
DH 3	1.65900	265.440	0.4	Pass
DH 5	2.90400	309.760	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.41440	132.608	0.4	Pass
3DH 3	1.64500	263.200	0.4	Pass
3DH 5	2.90400	309.760	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.40480	64.768	0.4	Pass
DH 3	1.66600	133.280	0.4	Pass
DH 5	2.90400	154.880	0.4	Pass

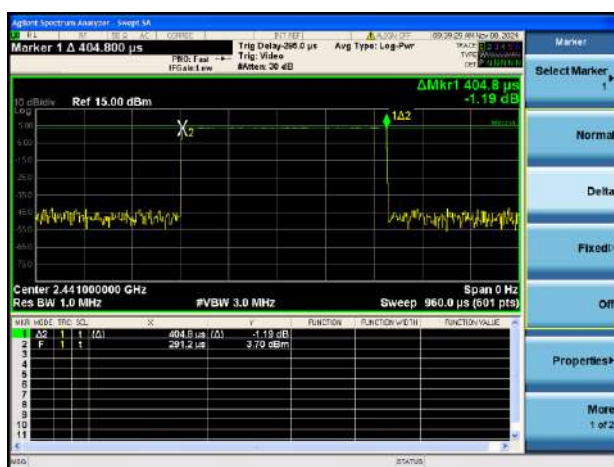
Right Earphone:

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.40480	129.536	0.4	Pass
DH 3	1.65900	265.440	0.4	Pass
DH 5	2.90400	309.760	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.41440	132.608	0.4	Pass
3DH 3	1.66600	266.560	0.4	Pass
3DH 5	2.89200	308.480	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.40480	64.768	0.4	Pass
DH 3	1.65900	132.720	0.4	Pass
DH 5	2.90400	154.880	0.4	Pass

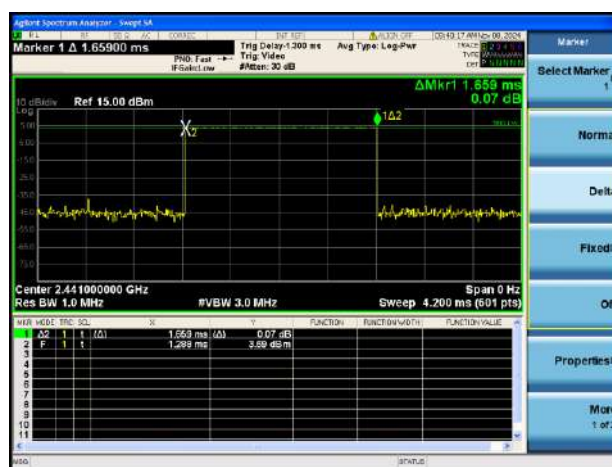
Test Plots

Left Earphone:

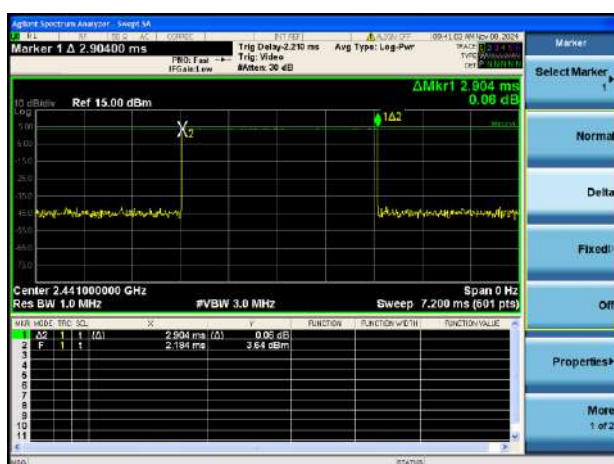
GFSK DH1



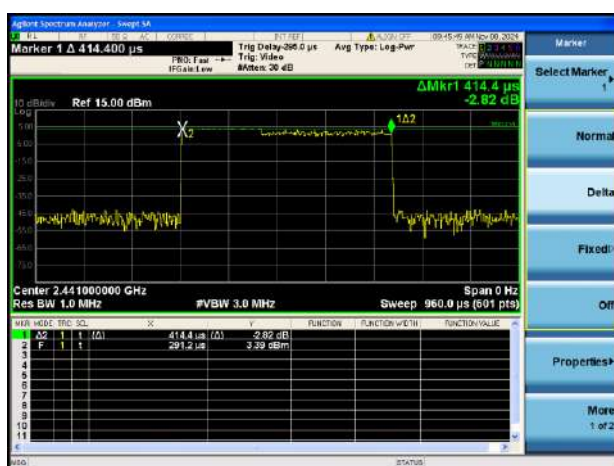
GFSK DH3



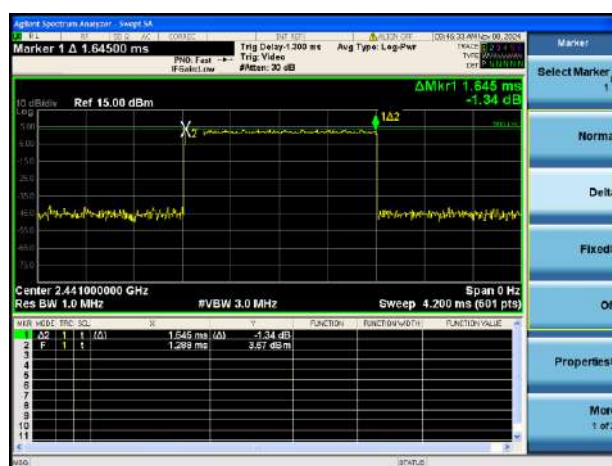
GFSK DH5



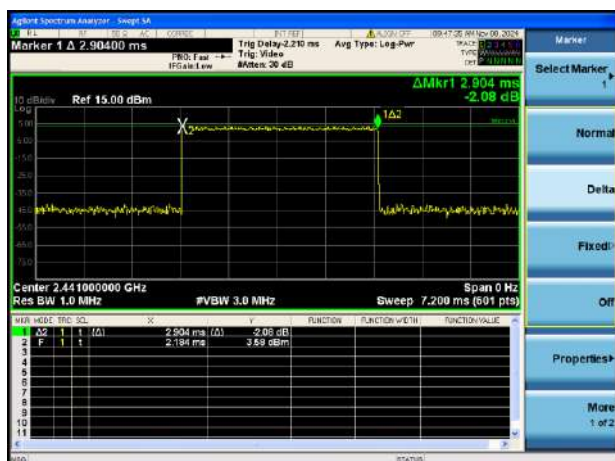
8-DPSK 3DH1



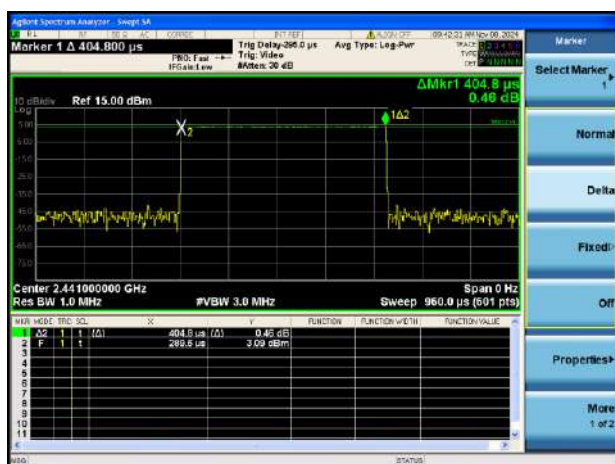
8-DPSK 3DH3



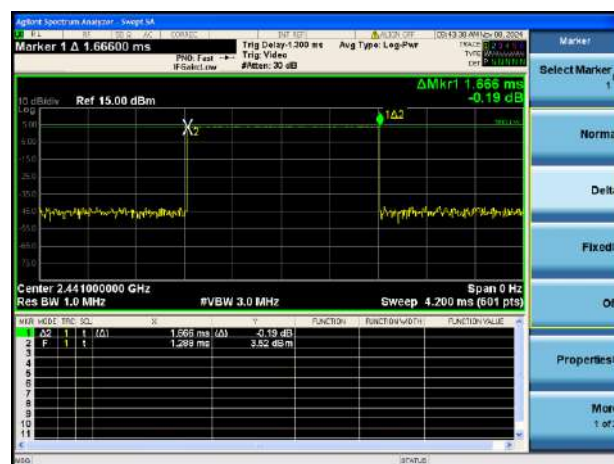
8-DPSK 3DH5



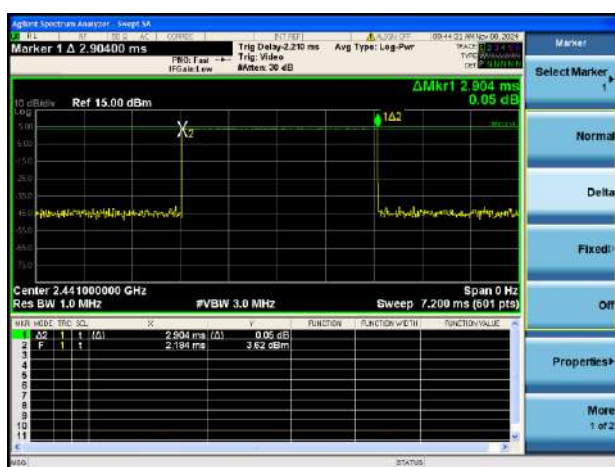
AFH Mode DH1



AFH Mode DH3

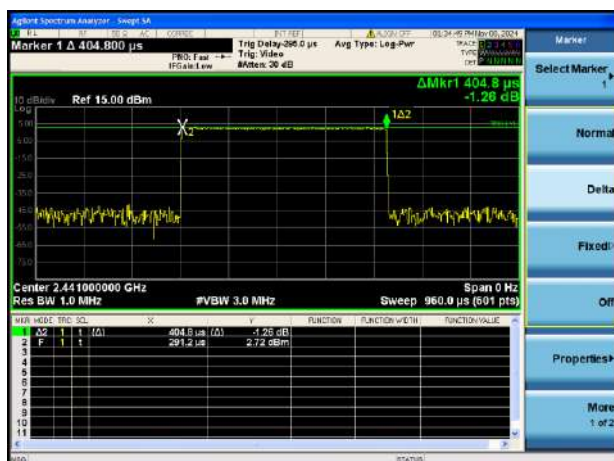


AFH Mode DH5

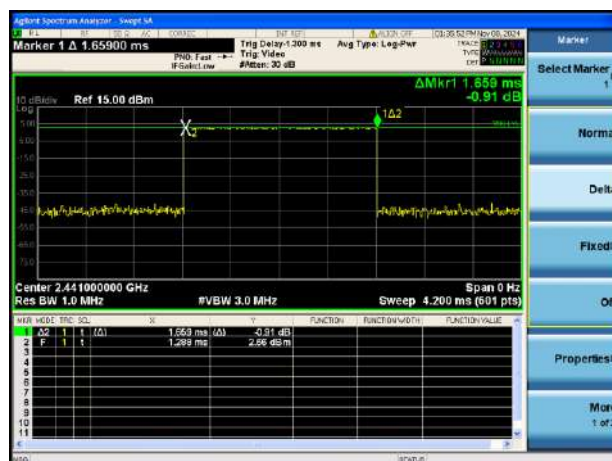


Right Earphone:

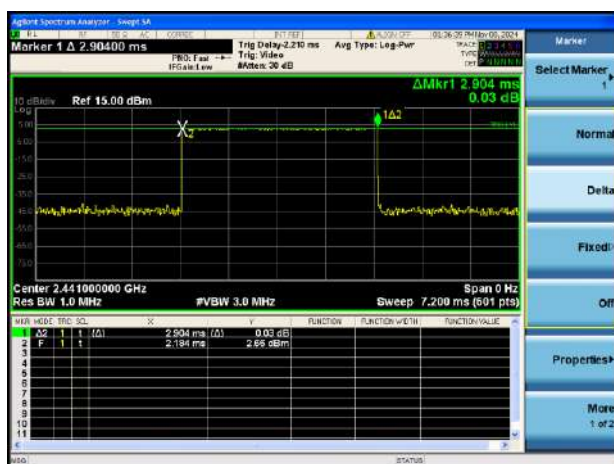
GFSK DH1



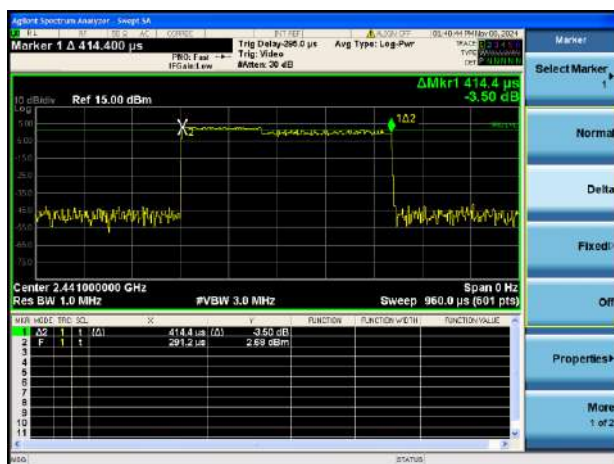
GFSK DH3



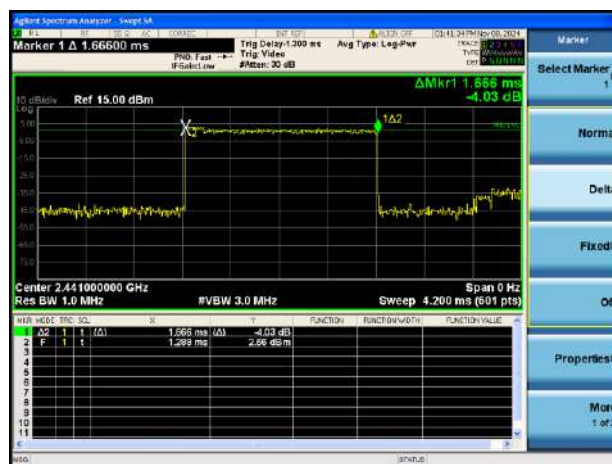
GFSK DH5



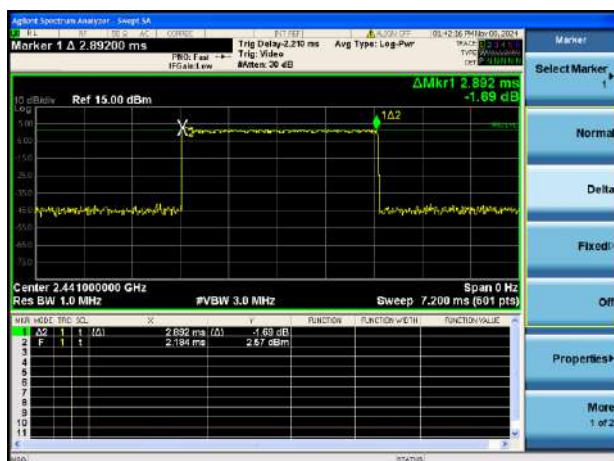
8-DPSK 3DH1



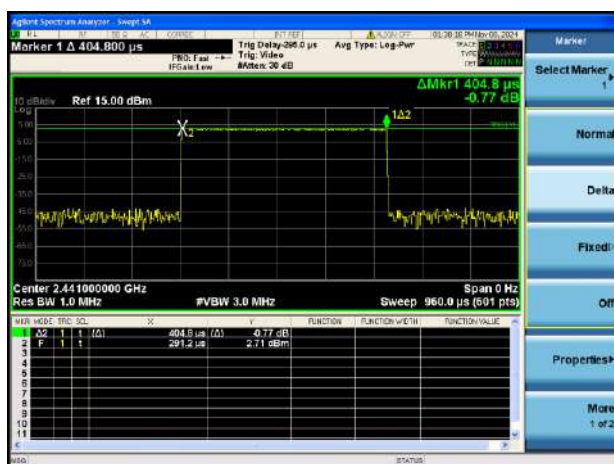
8-DPSK 3DH3



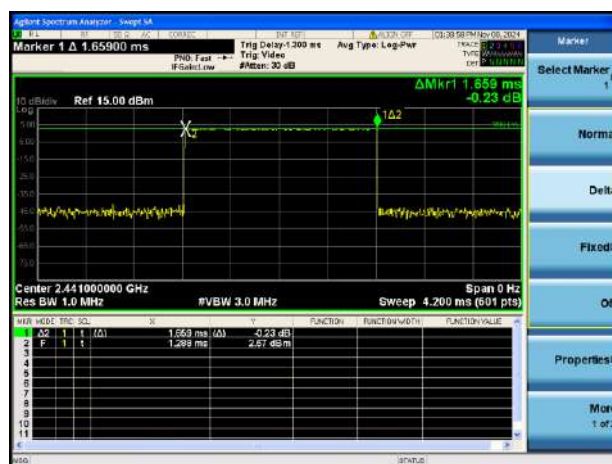
8-DPSK 3DH5



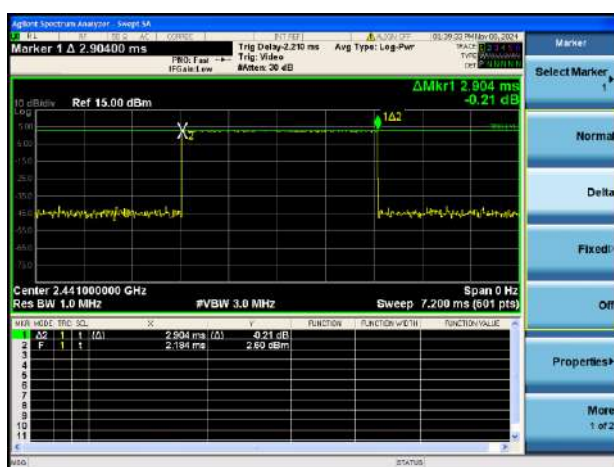
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

Left Earphone:

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-30.94	4.70	-15.30	Pass
Middle	-33.72	3.37	-16.63	Pass
High	-29.57	2.85	-17.15	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.91	4.60	-15.40	Pass
Middle	-37.65	3.36	-16.64	Pass
High	-35.92	2.95	-17.05	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-32.03	4.37	-15.63	Pass
8-DPSK	-31.49	4.84	-15.16	Pass

Right Earphone:

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.82	3.93	-16.07	Pass
Middle	-36.84	2.48	-17.52	Pass
High	-36.60	1.77	-18.23	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-37.43	4.04	-15.96	Pass
Middle	-37.66	2.39	-17.61	Pass
High	-36.10	1.61	-18.40	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-35.08	3.89	-16.11	Pass
8-DPSK	-33.61	4.31	-15.69	Pass

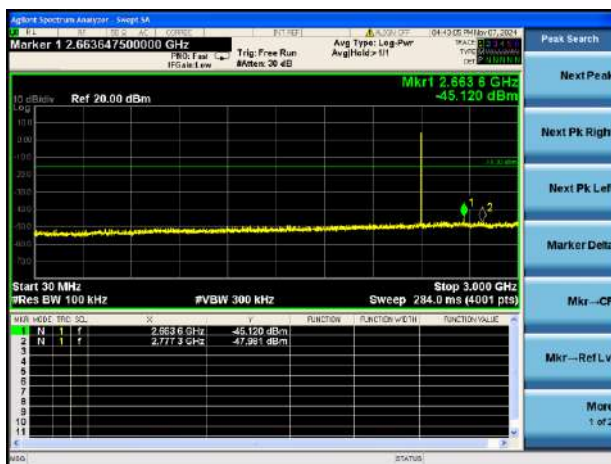
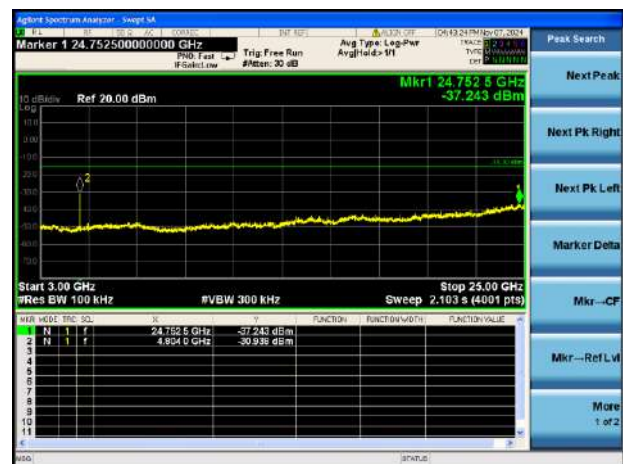
Test Plots

Left Earphone:

GFSK LOW CHANNEL, CARRIER LEVEL



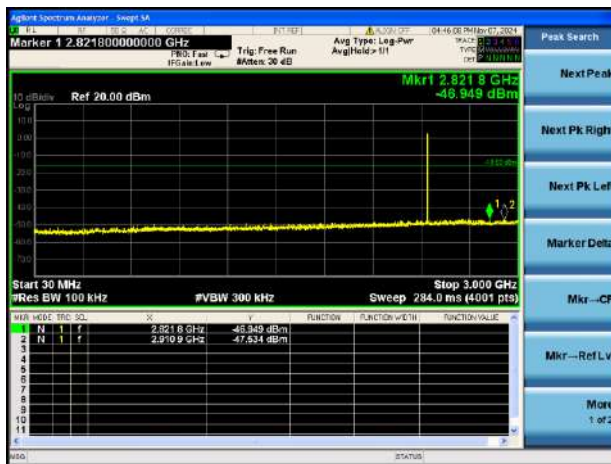
GFSK LOW CHANNEL, BAND EDGE

GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHzGFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

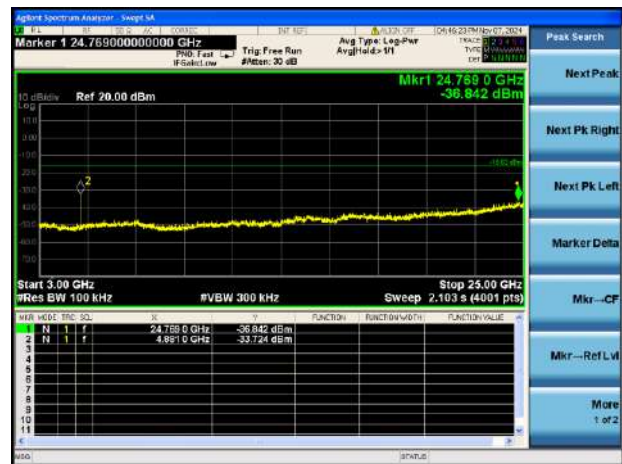
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



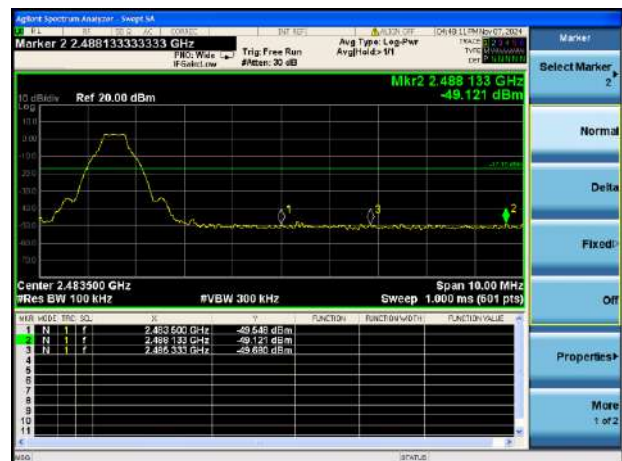
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



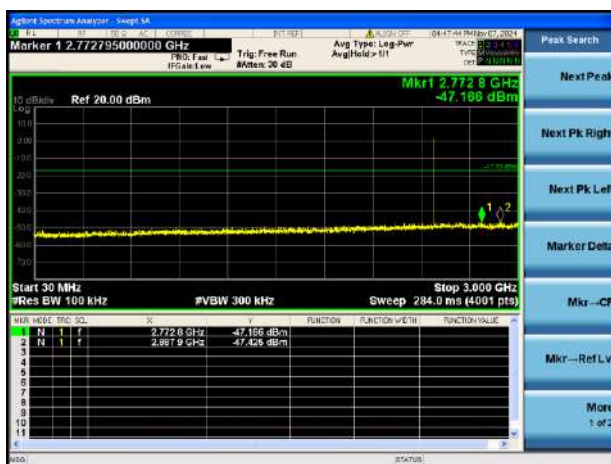
GFSK HIGH CHANNEL, CARRIER LEVEL



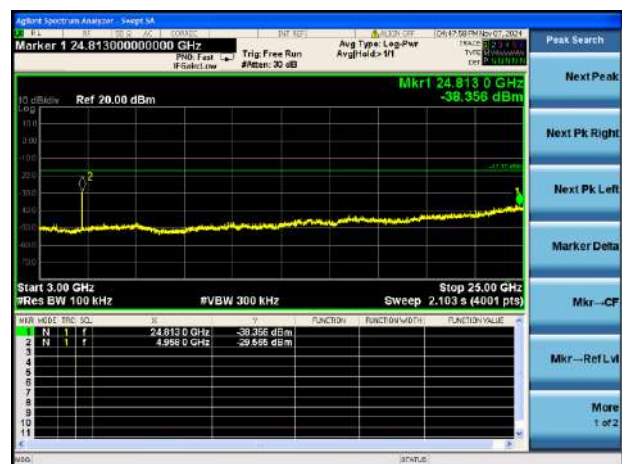
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



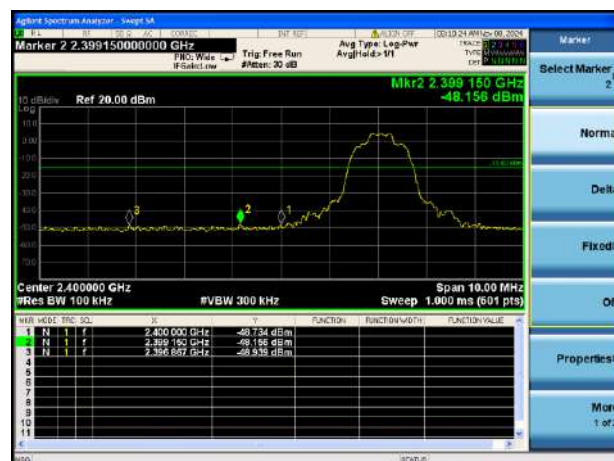
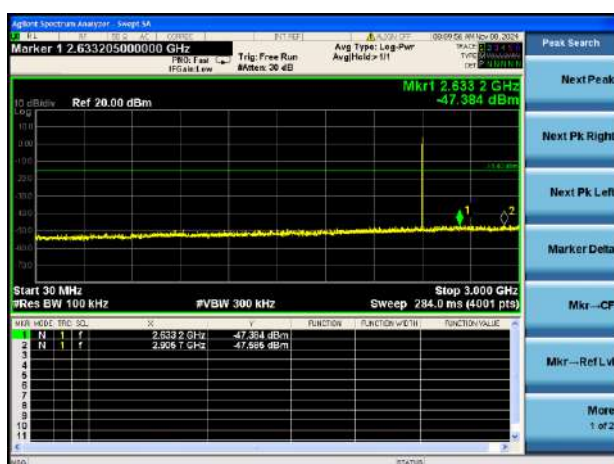
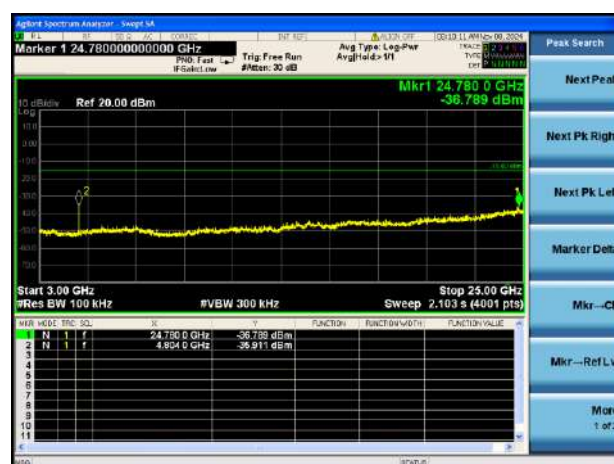
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL



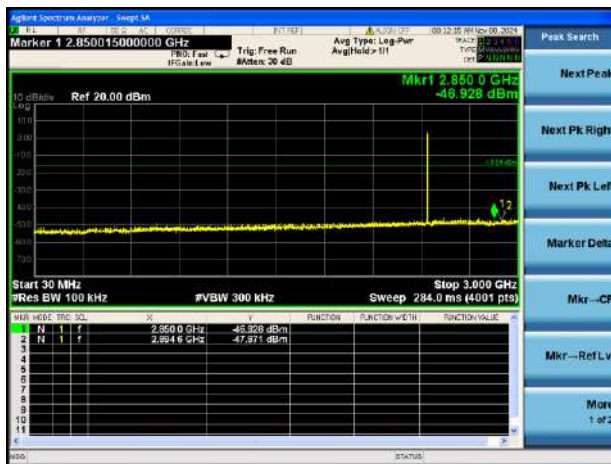
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

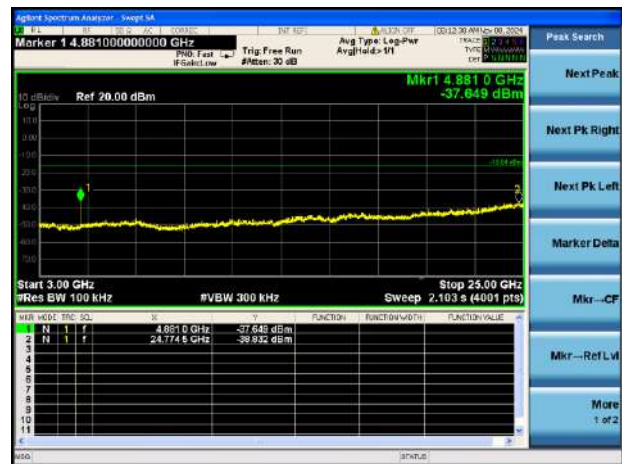
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



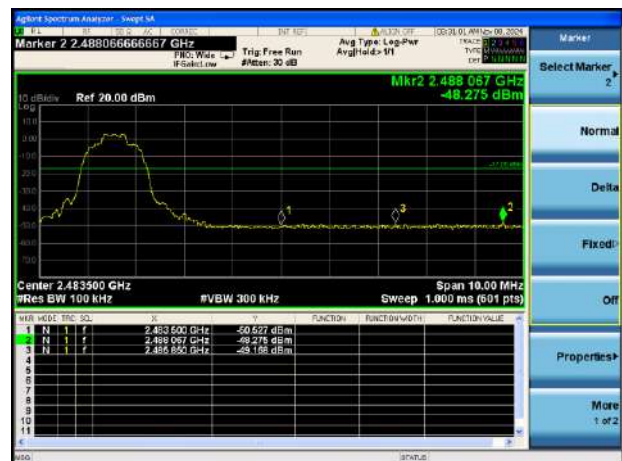
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



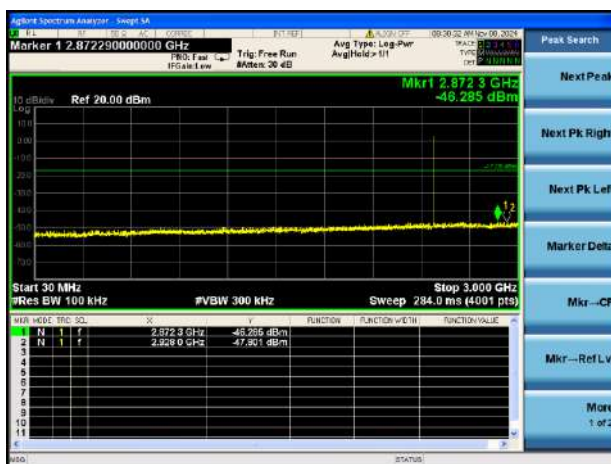
8-DPSK HIGH CHANNEL, CARRIER LEVEL



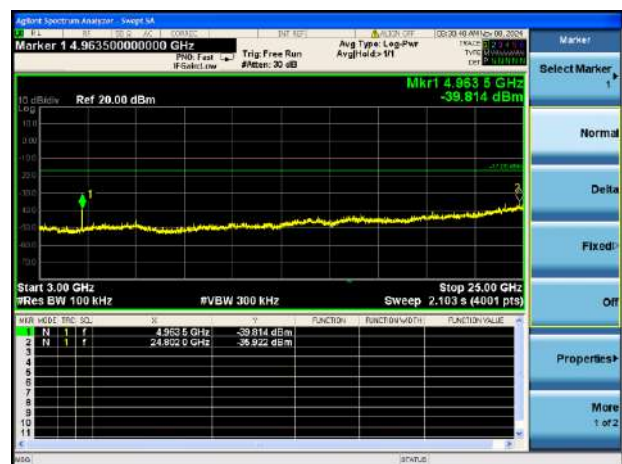
8-DPSK HIGH CHANNEL, BAND EDGE



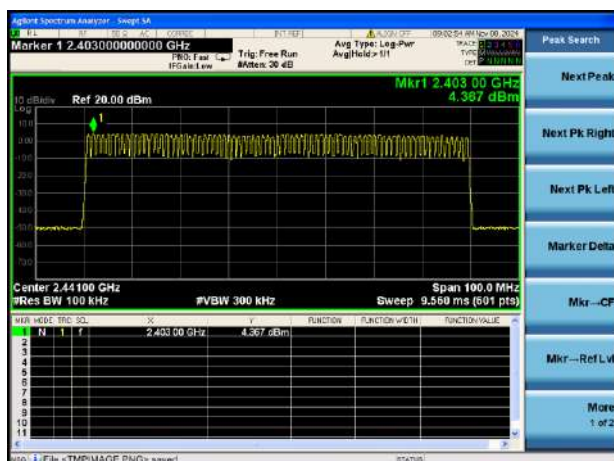
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



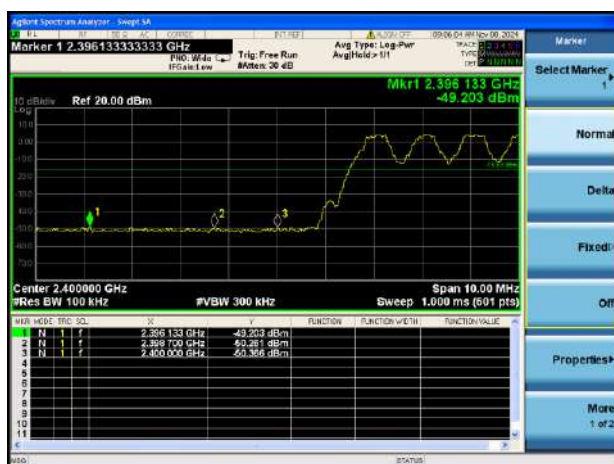
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



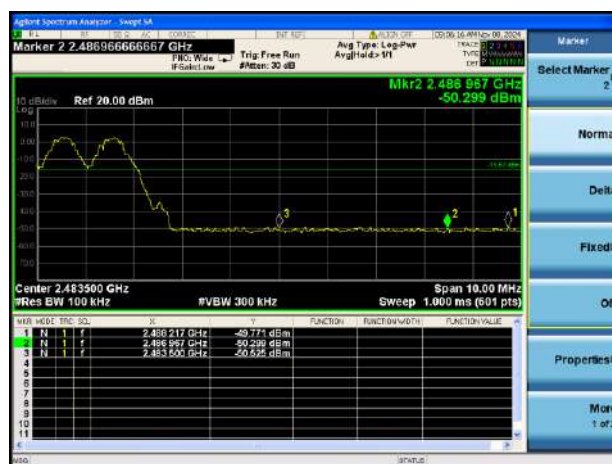
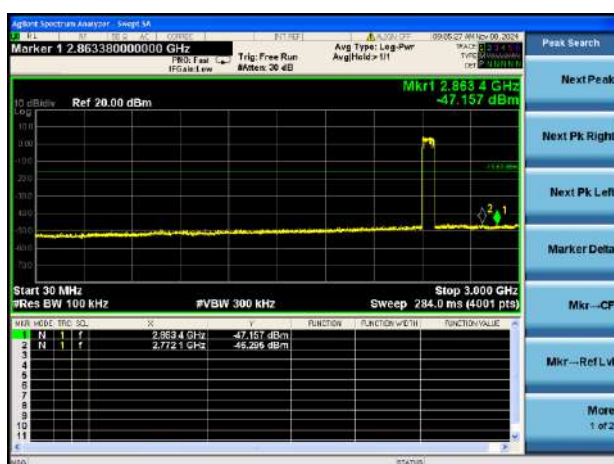
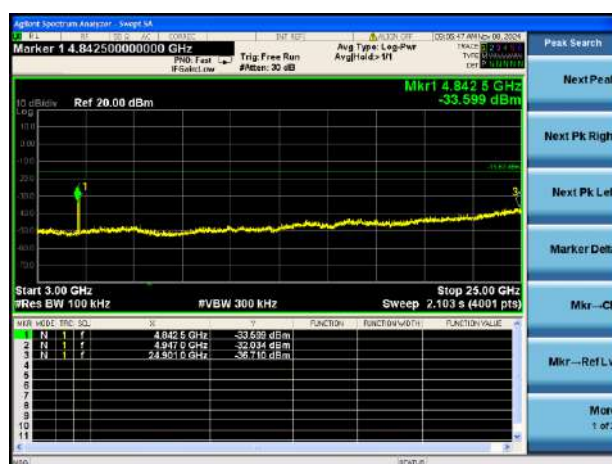
GFSK HOPPING, CARRIER LEVEL



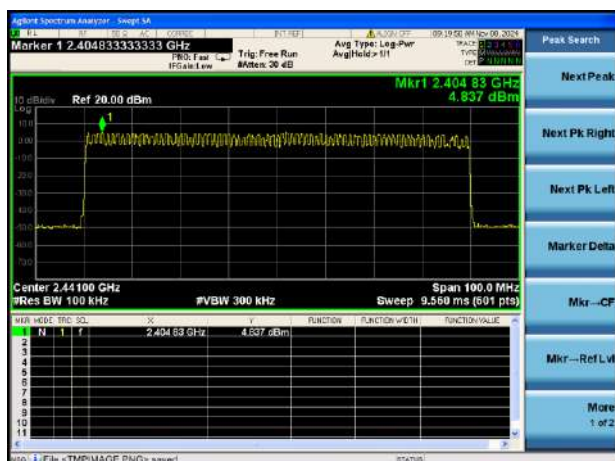
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

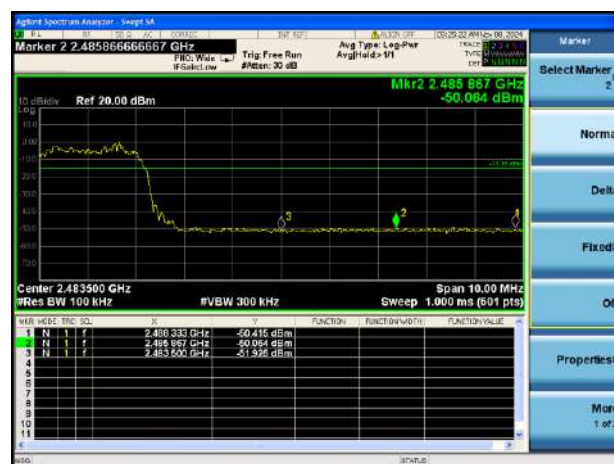
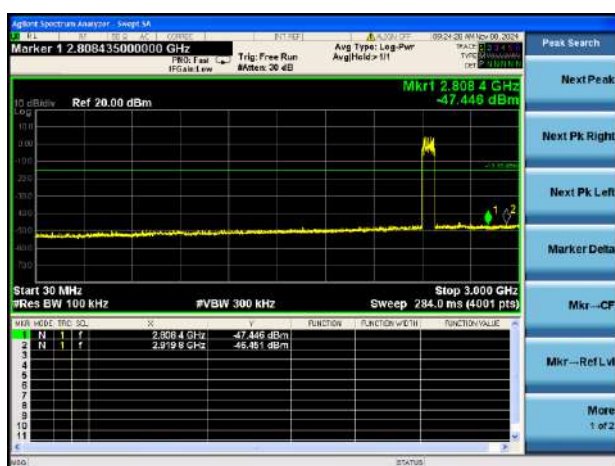
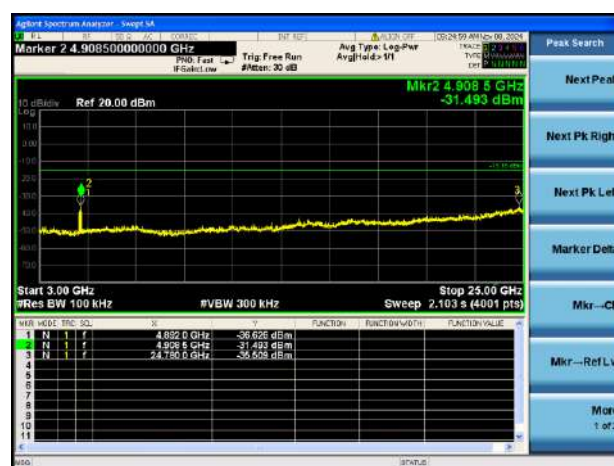
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

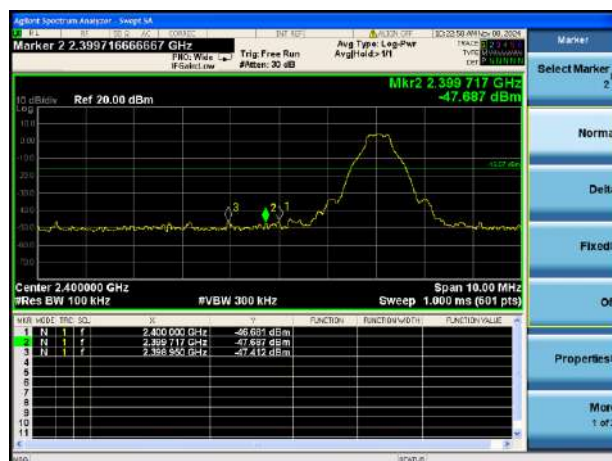
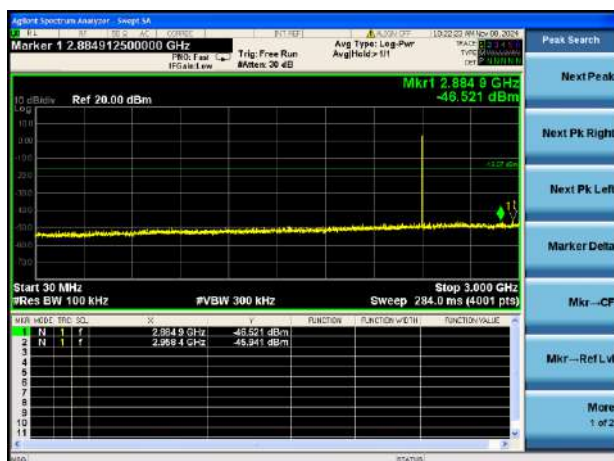
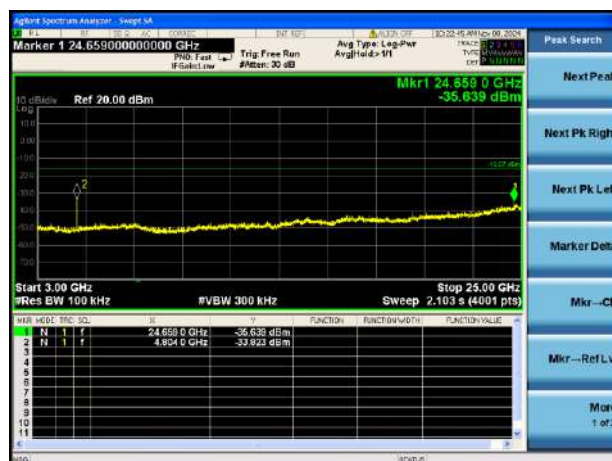
8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

Right Earphone:

GFSK LOW CHANNEL, CARRIER LEVEL



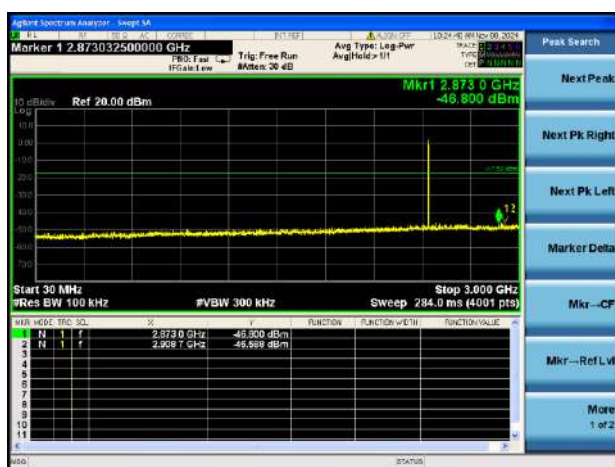
GFSK LOW CHANNEL, BAND EDGE

GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHzGFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

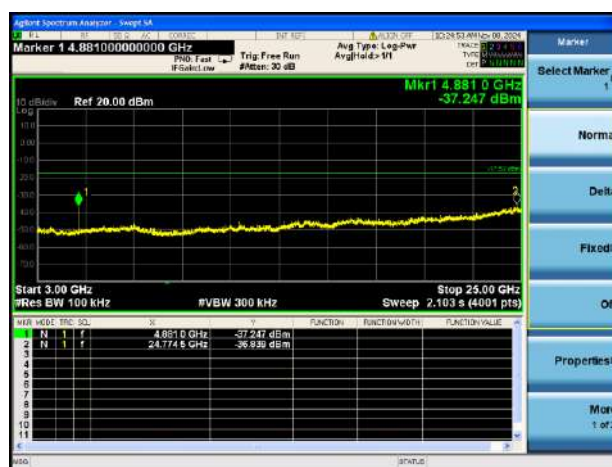
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



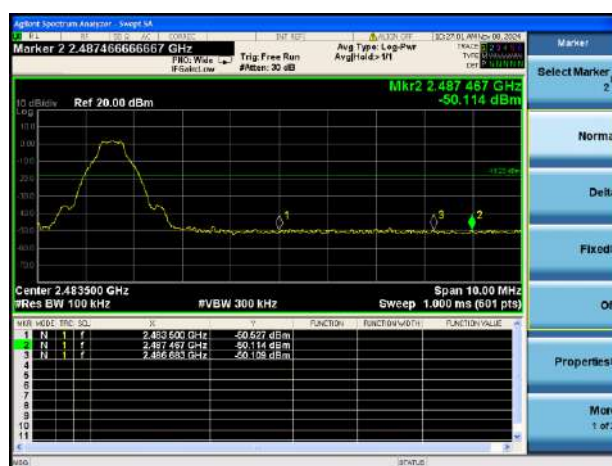
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



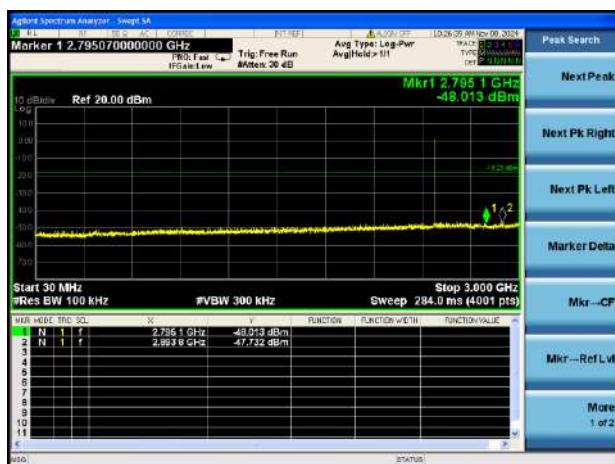
GFSK HIGH CHANNEL, CARRIER LEVEL



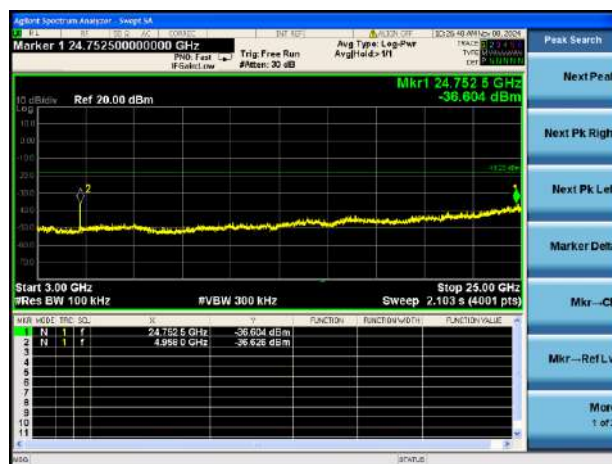
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



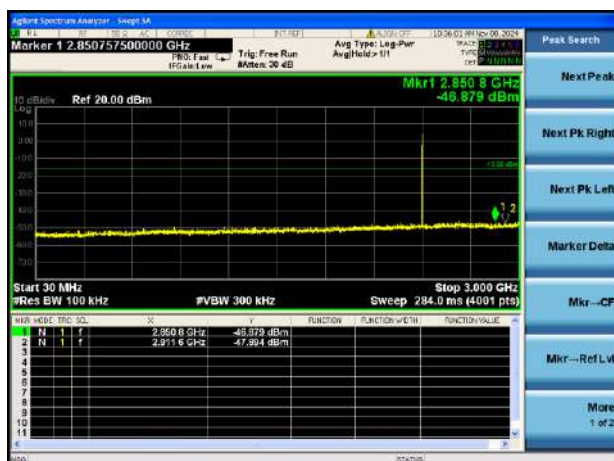
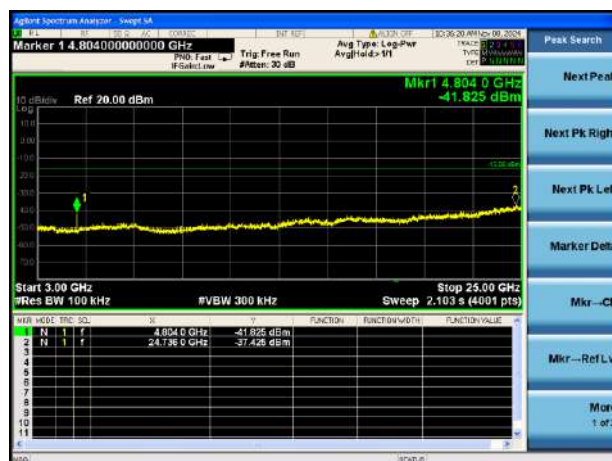
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL



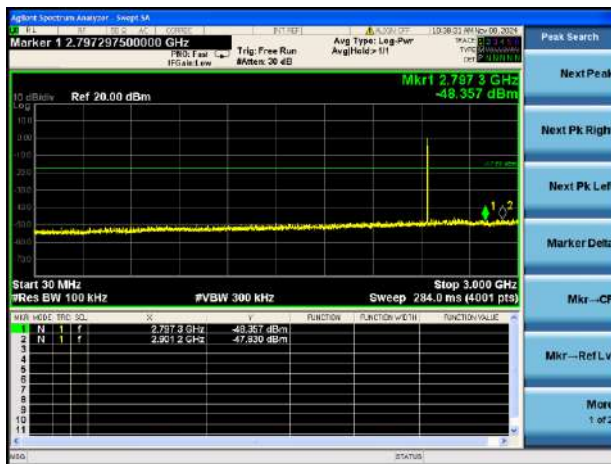
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

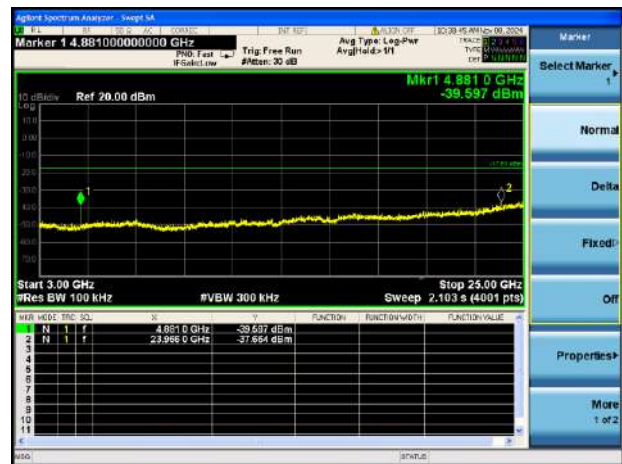
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



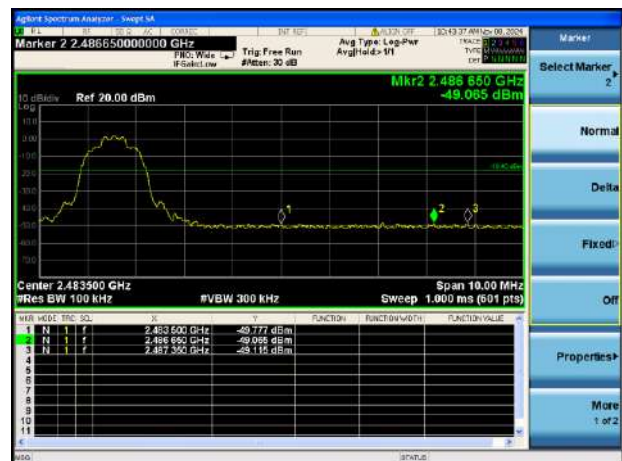
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



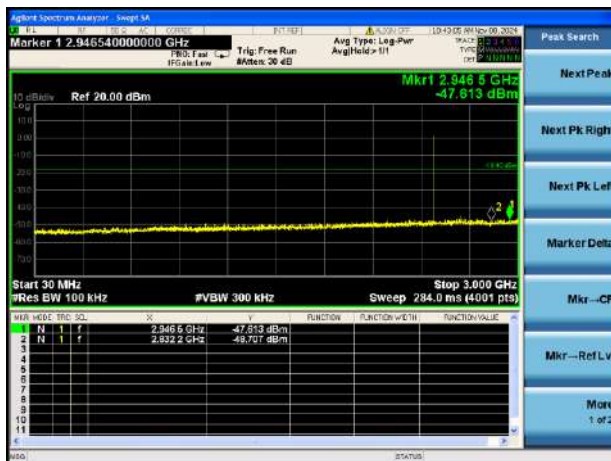
8-DPSK HIGH CHANNEL, CARRIER LEVEL



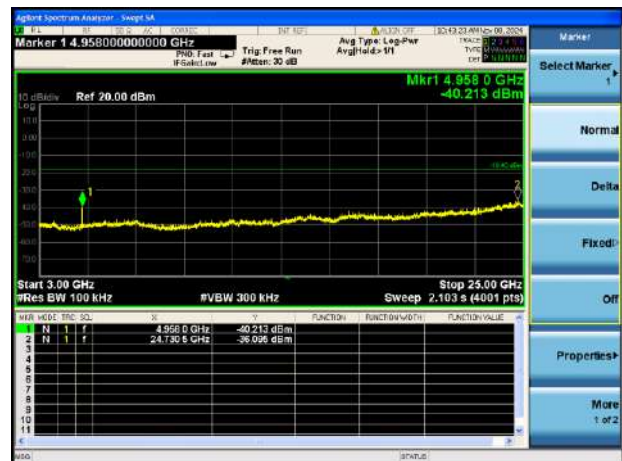
8-DPSK HIGH CHANNEL, BAND EDGE



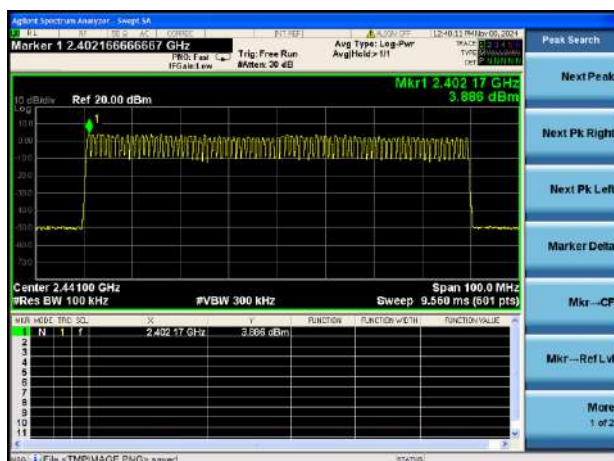
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



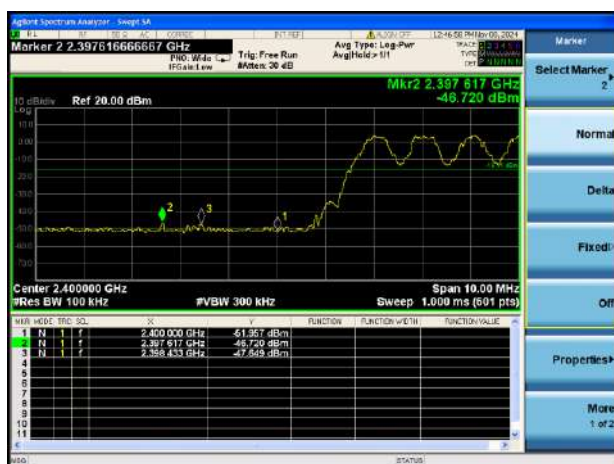
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



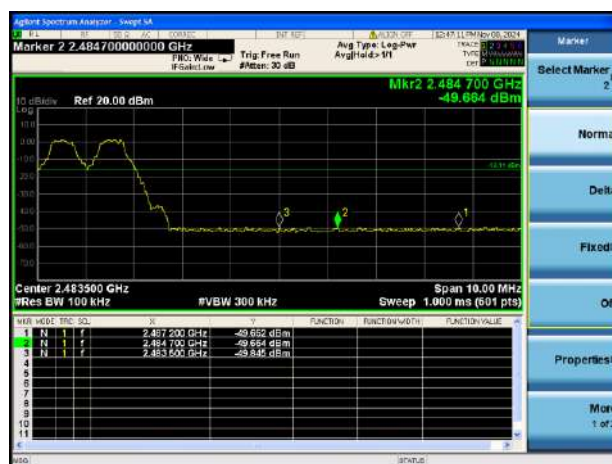
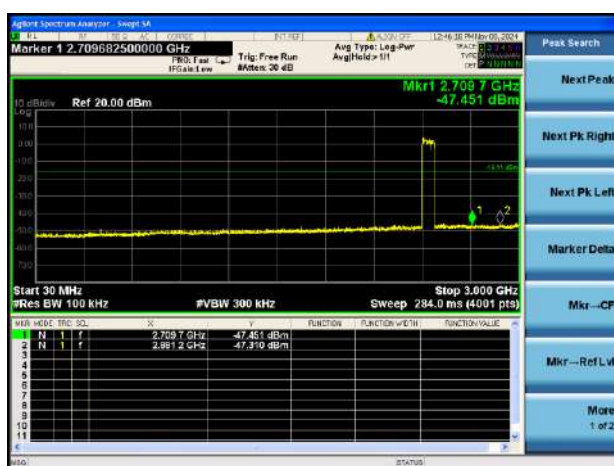
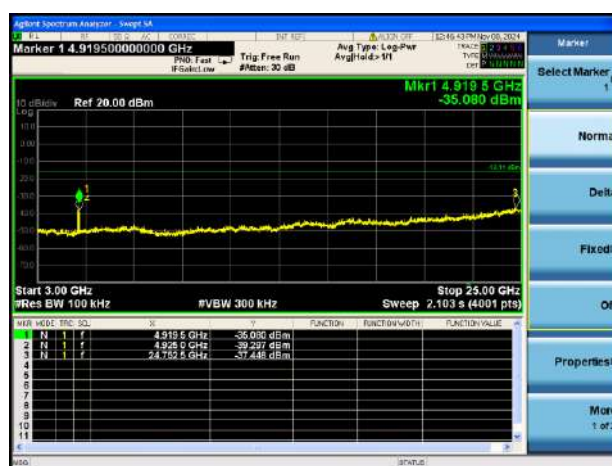
GFSK HOPPING, CARRIER LEVEL



GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

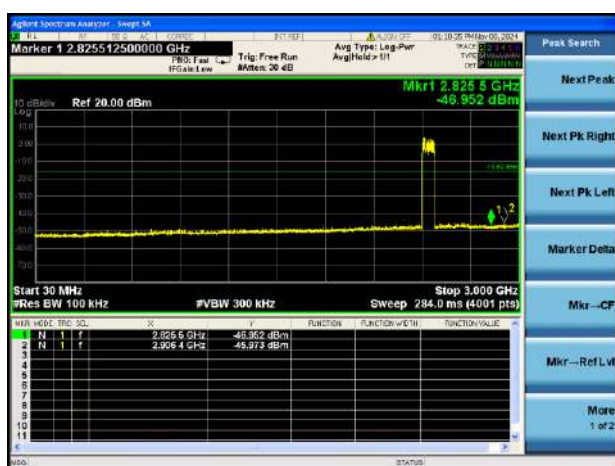
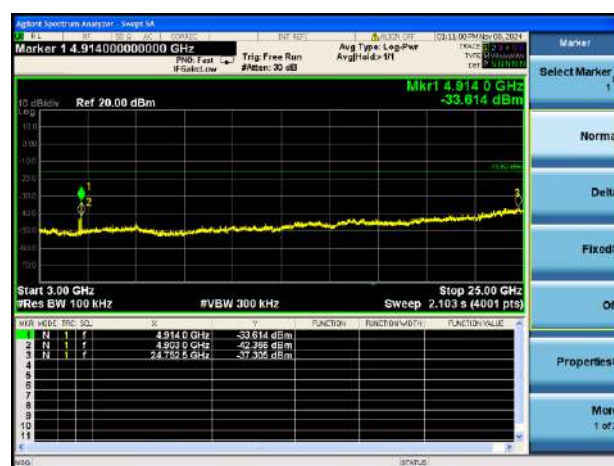
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

A.7 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

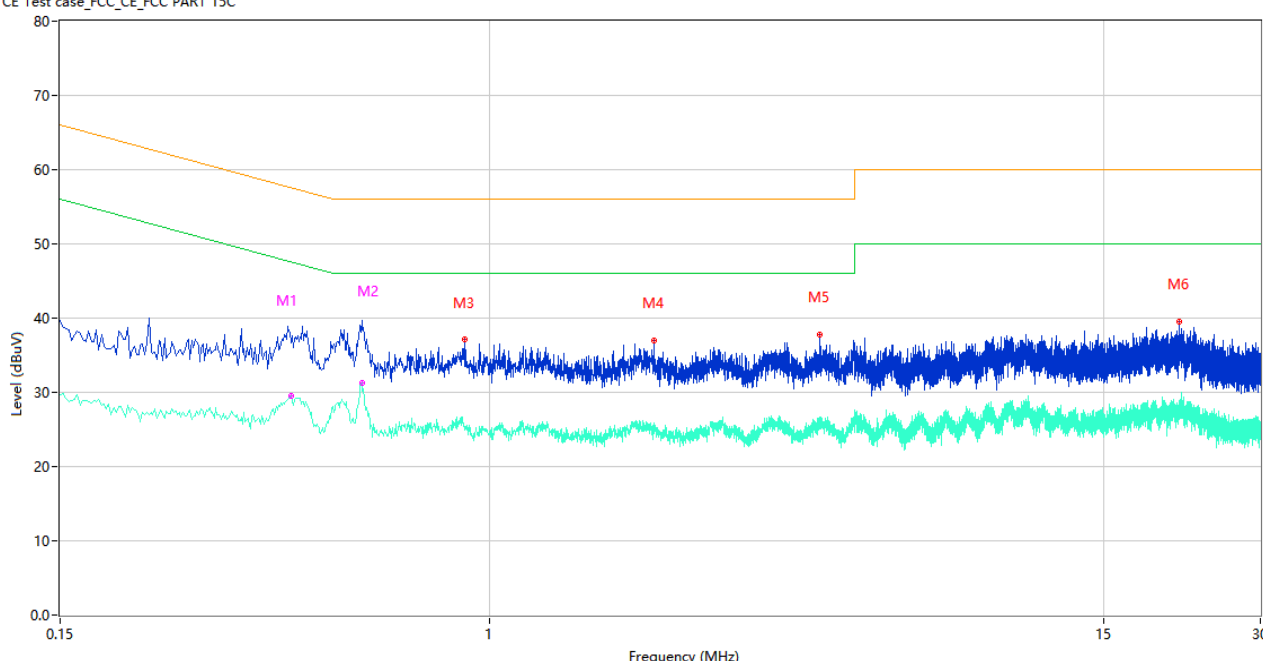
Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

Left Earphone:

PHASE L

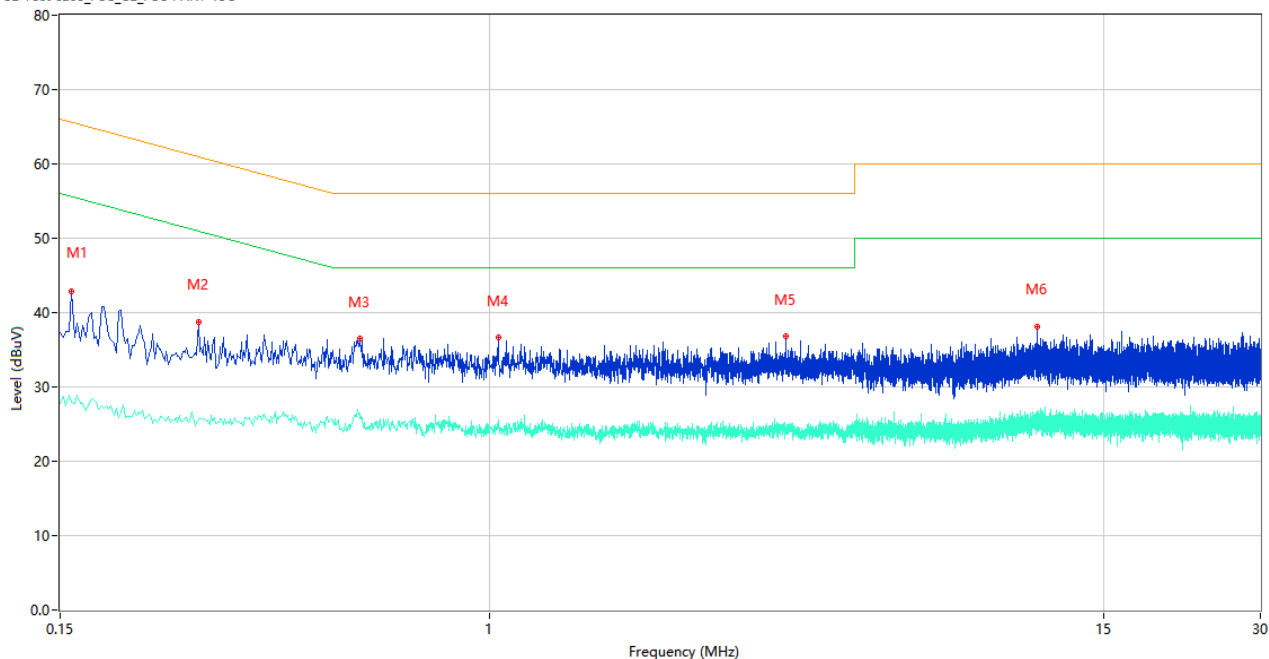
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.416	36.62	10.38	57.53	20.91	Peak	L	Pass
1**	0.416	29.48	10.38	47.53	18.05	AV	L	Pass
2	0.568	39.73	10.08	56.00	16.27	Peak	L	Pass
2**	0.568	31.33	10.08	46.00	14.67	AV	L	Pass
3	0.896	37.14	10.20	56.00	18.86	Peak	L	Pass
3**	0.896	25.46	10.20	46.00	20.54	AV	L	Pass
4	2.064	37.05	10.30	56.00	18.95	Peak	L	Pass
4**	2.064	25.85	10.30	46.00	20.15	AV	L	Pass
5	4.298	37.84	10.41	56.00	18.16	Peak	L	Pass
5**	4.298	25.86	10.41	46.00	20.14	AV	L	Pass
6	20.978	39.58	10.89	60.00	20.42	Peak	L	Pass
6**	20.978	27.44	10.89	50.00	22.56	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C

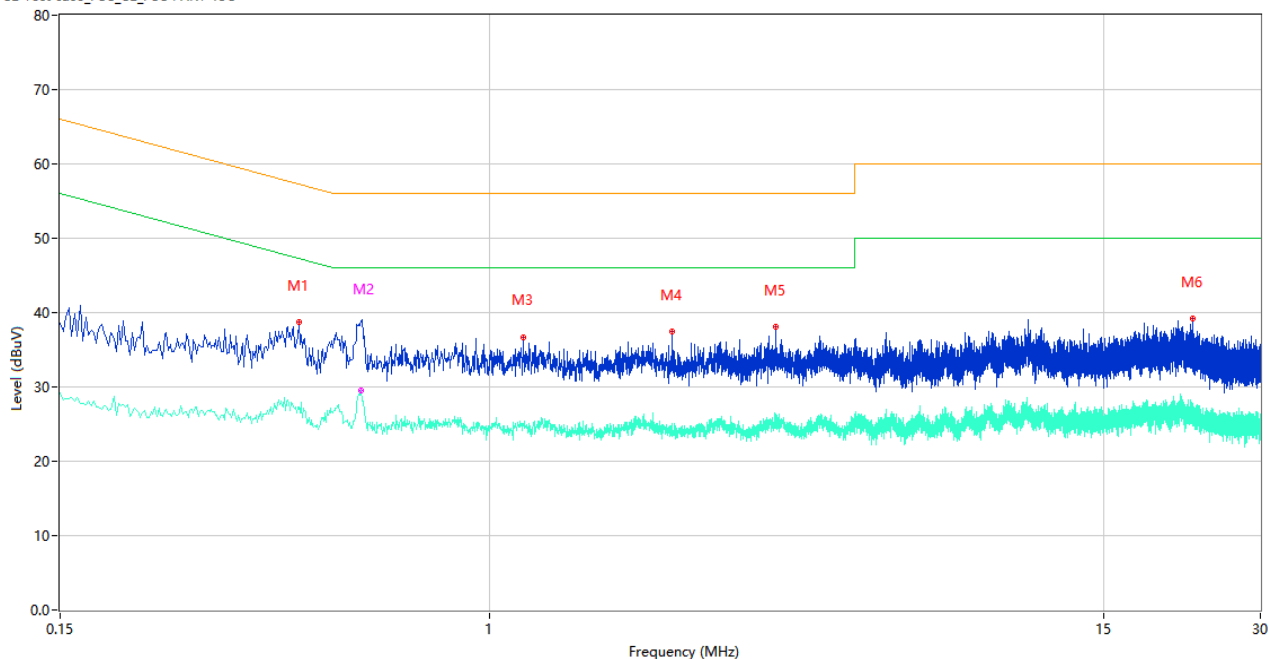


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	42.78	9.78	65.57	22.79	Peak	N	Pass
1**	0.158	27.89	9.78	55.57	27.68	AV	N	Pass
2	0.276	38.77	9.76	60.94	22.17	Peak	N	Pass
2**	0.276	25.50	9.76	50.94	25.44	AV	N	Pass
3	0.562	36.49	10.06	56.00	19.51	Peak	N	Pass
3**	0.562	26.48	10.06	46.00	19.52	AV	N	Pass
4	1.038	36.64	10.13	56.00	19.36	Peak	N	Pass
4**	1.038	25.53	10.13	46.00	20.47	AV	N	Pass
5	3.688	36.75	10.27	56.00	19.25	Peak	N	Pass
5**	3.688	24.26	10.27	46.00	21.74	AV	N	Pass
6	11.216	38.13	10.72	60.00	21.87	Peak	N	Pass
6**	11.216	25.19	10.72	50.00	24.81	AV	N	Pass

Right Earphone:

PHASE L

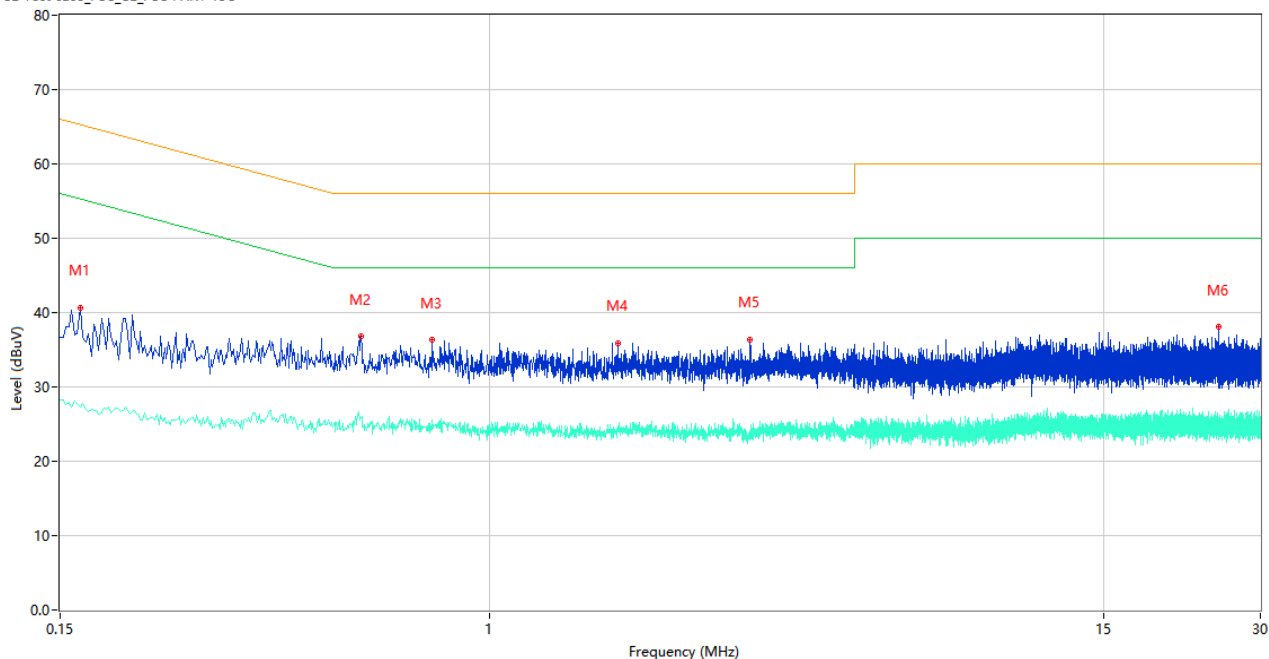
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.430	38.71	10.24	57.25	18.54	Peak	L	Pass
1**	0.430	27.33	10.24	47.25	19.92	AV	L	Pass
2	0.566	38.89	10.07	56.00	17.11	Peak	L	Pass
2**	0.566	29.47	10.07	46.00	16.53	AV	L	Pass
3	1.160	36.70	10.29	56.00	19.30	Peak	L	Pass
3**	1.160	24.71	10.29	46.00	21.29	AV	L	Pass
4	2.236	37.40	10.07	56.00	18.60	Peak	L	Pass
4**	2.236	25.07	10.07	46.00	20.93	AV	L	Pass
5	3.532	38.04	10.18	56.00	17.96	Peak	L	Pass
5**	3.532	24.66	10.18	46.00	21.34	AV	L	Pass
6	22.226	39.17	11.07	60.00	20.83	Peak	L	Pass
6**	22.226	27.55	11.07	50.00	22.45	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.164	40.63	9.78	65.26	24.63	Peak	N	Pass
1**	0.164	27.35	9.78	55.26	27.91	AV	N	Pass
2	0.566	36.77	10.07	56.00	19.23	Peak	N	Pass
2**	0.566	25.89	10.07	46.00	20.11	AV	N	Pass
3	0.776	36.31	10.36	56.00	19.69	Peak	N	Pass
3**	0.776	25.56	10.36	46.00	20.44	AV	N	Pass
4	1.756	35.90	10.15	56.00	20.10	Peak	N	Pass
4**	1.756	24.71	10.15	46.00	21.29	AV	N	Pass
5	3.158	36.41	10.06	56.00	19.59	Peak	N	Pass
5**	3.158	24.18	10.06	46.00	21.82	AV	N	Pass
6	24.924	38.05	10.88	60.00	21.95	Peak	N	Pass
6**	24.924	25.30	10.88	50.00	24.70	AV	N	Pass

A.8 Radiated Spurious Emission

Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

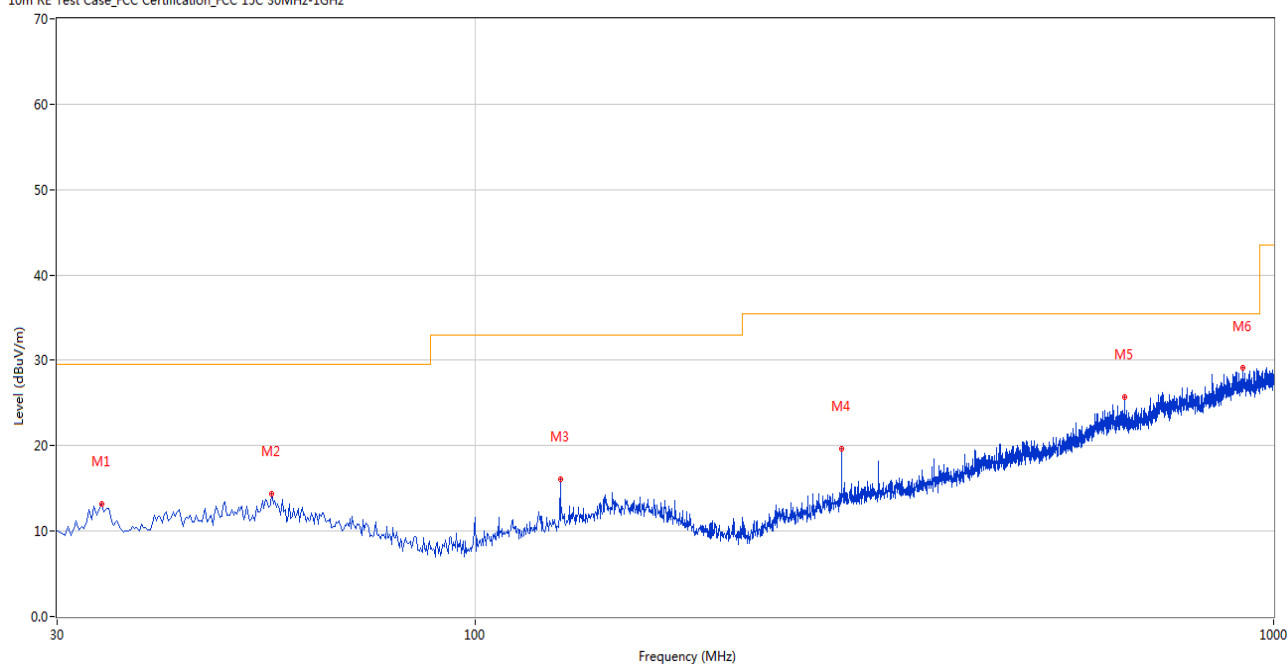
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Test Data and Plots

Left Earphone:

30 MHz to 1 GHz, ANT H

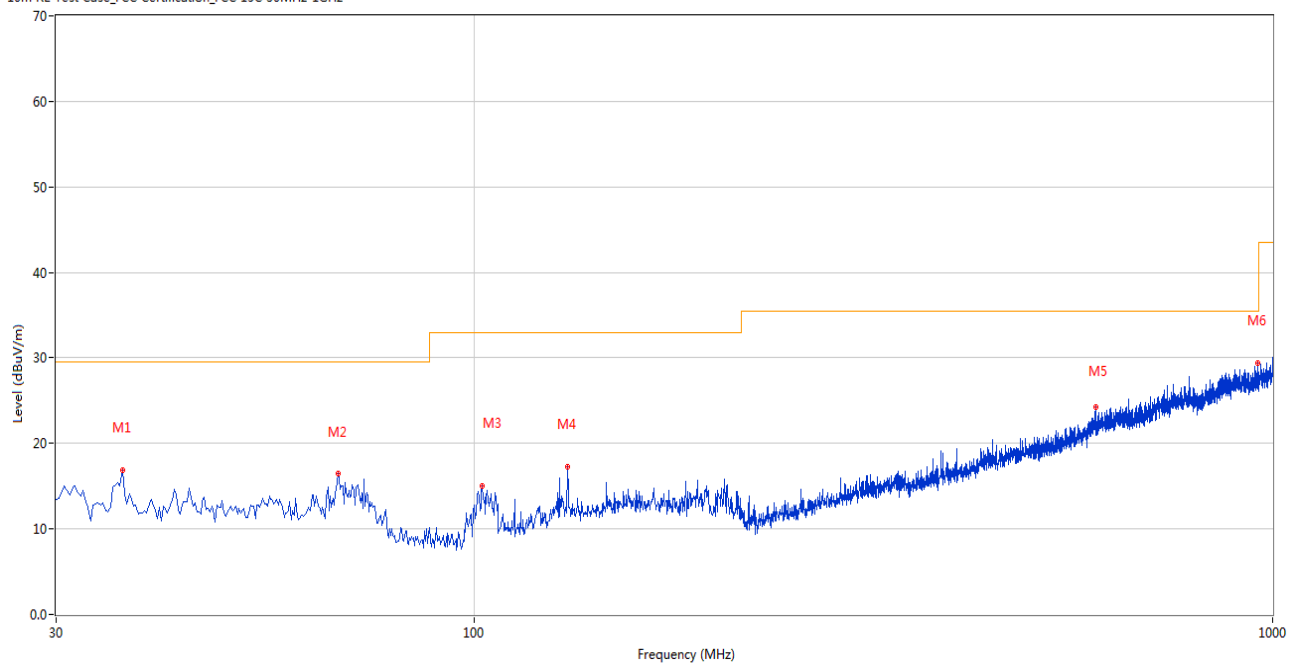
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.121	13.15	-27.20	29.5	16.35	Peak	0.00	200	Horizontal	Pass
2	55.699	14.40	-26.18	29.5	15.10	Peak	319.00	200	Horizontal	Pass
3	127.946	16.12	-27.27	33.0	16.88	Peak	0.00	100	Horizontal	Pass
4	287.956	19.67	-25.18	35.5	15.83	Peak	66.00	200	Horizontal	Pass
5	650.645	25.73	-15.70	35.5	9.77	Peak	10.00	200	Horizontal	Pass
6	915.146	29.07	-10.43	35.5	6.43	Peak	67.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz

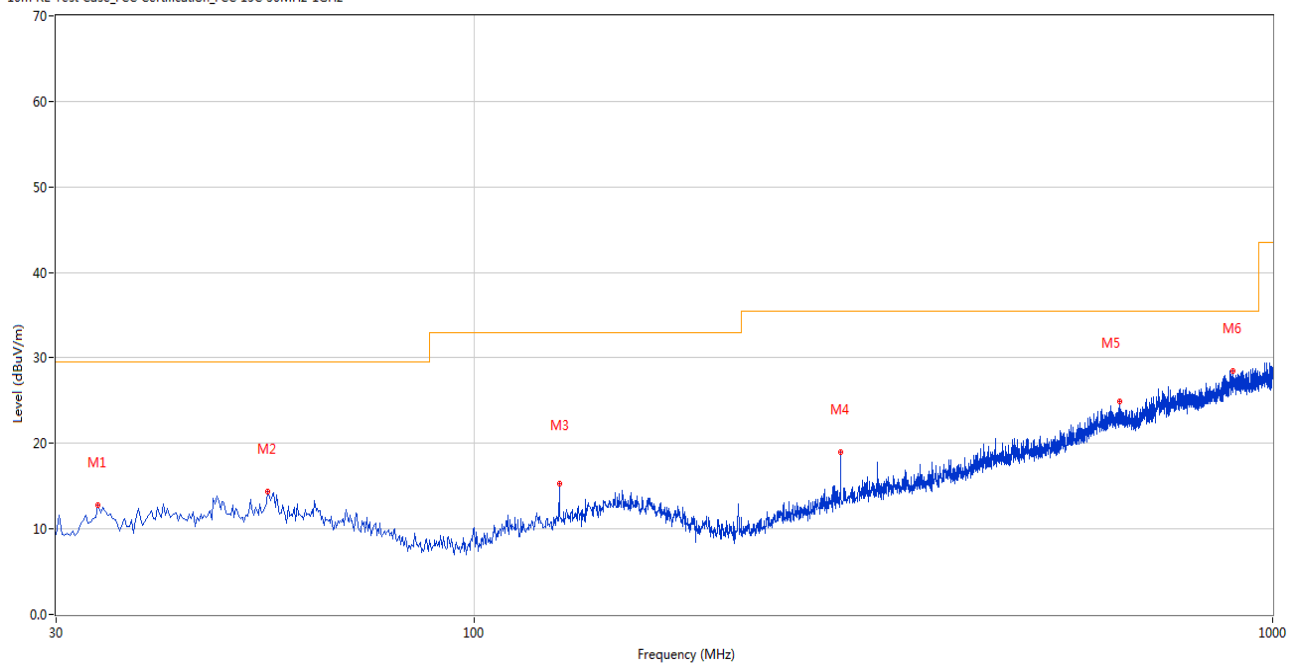


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	36.303	16.85	-27.13	29.5	12.65	Peak	166.00	100	Vertical	Pass
2	67.578	16.42	-27.97	29.5	13.08	Peak	319.00	100	Vertical	Pass
3	102.489	14.99	-30.18	33.0	18.01	Peak	182.00	100	Vertical	Pass
4	131.097	17.29	-27.09	33.0	15.71	Peak	95.00	100	Vertical	Pass
5	600.460	24.21	-16.61	35.5	11.29	Peak	194.00	100	Vertical	Pass
6	957.816	29.34	-10.60	35.5	6.16	Peak	0.00	200	Vertical	Pass

Right Earphone:

30 MHz to 1 GHz, ANT H

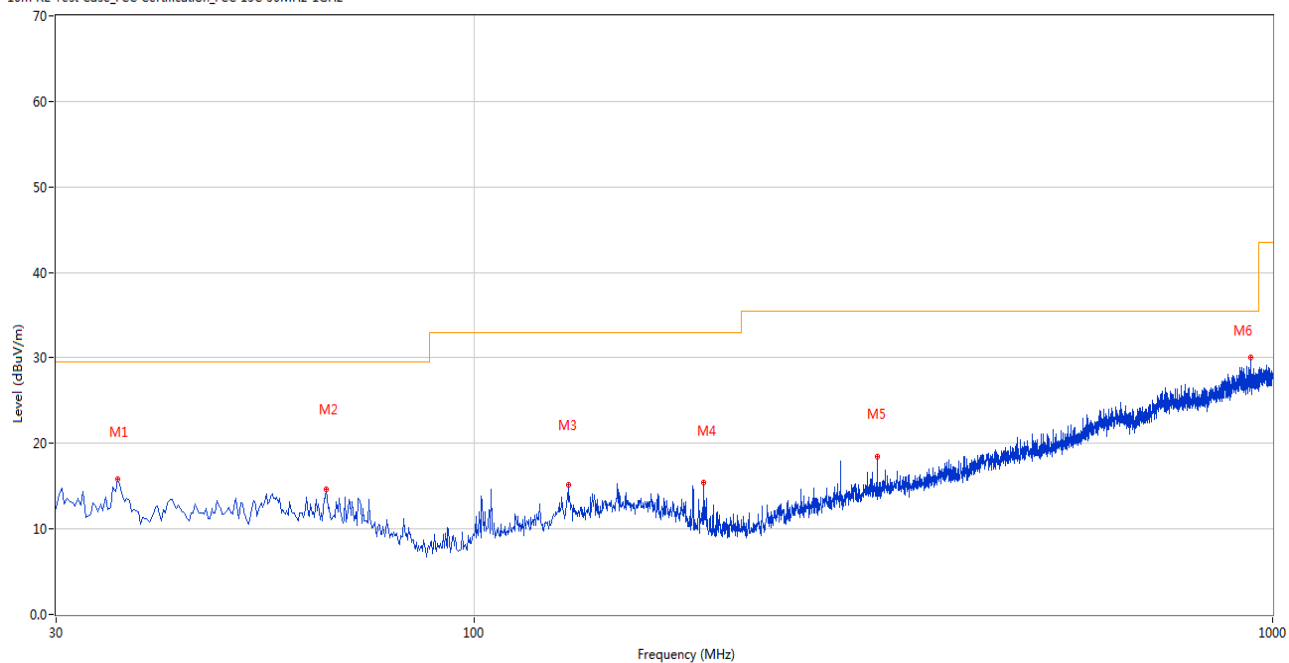
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.879	12.80	-27.25	29.5	16.70	Peak	0.00	200	Horizontal	Pass
2	55.214	14.39	-26.15	29.5	15.11	Peak	246.00	200	Horizontal	Pass
3	127.946	15.24	-27.27	33.0	17.76	Peak	0.00	200	Horizontal	Pass
4	287.956	18.98	-25.18	35.5	16.52	Peak	20.00	200	Horizontal	Pass
5	644.341	24.88	-15.71	35.5	10.62	Peak	135.00	100	Horizontal	Pass
6	892.599	28.52	-10.58	35.5	6.98	Peak	249.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.819	15.87	-27.10	29.5	13.63	Peak	93.00	100	Vertical	Pass
2	65.396	14.65	-27.56	29.5	14.85	Peak	360.00	100	Vertical	Pass
3	131.340	15.13	-27.05	33.0	17.87	Peak	0.00	200	Vertical	Pass
4	194.131	15.42	-28.54	33.0	17.58	Peak	68.00	100	Vertical	Pass
5	319.958	18.49	-24.36	35.5	17.01	Peak	0.00	200	Vertical	Pass
6	939.148	30.03	-10.50	35.5	5.47	Peak	0.00	200	Vertical	Pass

Note ¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note ²: The spurious from 18GHz-25GHz is noise only, do not show on the report.

Left Earphone:

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1580.000	41.71	74.0	32.29	Peak	67.00	200	Horizontal	Pass
1**	1580.000	32.93	54.0	21.07	AV	67.00	200	Horizontal	Pass
2	2402.200	94.85	74.0	-20.85	Peak	220.00	100	Horizontal	N/A
2**	2402.200	94.21	54.0	-40.21	AV	220.00	100	Horizontal	N/A
3	4804.250	53.62	74.0	20.38	Peak	290.00	100	Horizontal	Pass
3**	4804.250	50.56	54.0	3.44	AV	290.00	100	Horizontal	Pass
4	4804.500	53.92	74.0	20.08	Peak	290.00	150	Horizontal	Pass
4**	4804.500	50.24	54.0	3.76	AV	290.00	150	Horizontal	Pass
5	12955.537	53.76	74.0	20.24	Peak	360.00	400	Horizontal	Pass
5**	12955.537	43.85	54.0	10.15	AV	360.00	400	Horizontal	Pass
6	17017.988	55.49	74.0	18.51	Peak	0.00	300	Horizontal	Pass
6**	17017.988	45.67	54.0	8.33	AV	0.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1577.200	42.63	74.0	31.37	Peak	0.00	300	Vertical	Pass
1**	1577.200	32.44	54.0	21.56	AV	0.00	300	Vertical	Pass
2	2402.200	88.04	74.0	-14.04	Peak	235.00	100	Vertical	N/A
2**	2402.200	87.49	54.0	-33.49	AV	235.00	100	Vertical	N/A
3	4804.000	53.25	74.0	20.75	Peak	74.00	150	Vertical	Pass
3**	4804.000	49.21	54.0	4.79	AV	74.00	150	Vertical	Pass
4	4804.250	52.60	74.0	21.40	Peak	93.00	100	Vertical	Pass
4**	4804.250	49.50	54.0	4.50	AV	93.00	100	Vertical	Pass
5	12507.750	54.05	74.0	19.95	Peak	191.00	200	Vertical	Pass
5**	12507.750	44.33	54.0	9.67	AV	191.00	200	Vertical	Pass
6	16666.238	54.95	74.0	19.05	Peak	231.00	200	Vertical	Pass
6**	16666.238	44.60	54.0	9.40	AV	231.00	200	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.400	42.69	74.0	31.31	Peak	52.00	100	Horizontal	Pass
1**	1495.400	32.47	54.0	21.53	AV	52.00	100	Horizontal	Pass
2	2440.800	93.61	74.0	-19.61	Peak	239.00	150	Horizontal	N/A
2**	2440.800	92.07	54.0	-38.07	AV	239.00	150	Horizontal	N/A
3	4881.500	52.78	74.0	21.22	Peak	173.00	200	Horizontal	Pass
3**	4881.500	46.93	54.0	7.07	AV	173.00	200	Horizontal	Pass
4	4882.250	52.27	74.0	21.73	Peak	49.00	100	Horizontal	Pass
4**	4882.250	49.22	54.0	4.78	AV	49.00	100	Horizontal	Pass
5	6887.750	54.09	74.0	19.91	Peak	276.00	300	Horizontal	Pass
5**	6887.750	44.31	54.0	9.69	AV	276.00	300	Horizontal	Pass
6	12993.338	53.80	74.0	20.20	Peak	332.00	400	Horizontal	Pass
6**	12993.338	45.49	54.0	8.51	AV	332.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1300.700	42.37	74.0	31.63	Peak	19.00	200	Vertical	Pass
1**	1300.700	32.45	54.0	21.55	AV	19.00	200	Vertical	Pass
2	2440.900	89.11	74.0	-15.11	Peak	166.00	150	Vertical	N/A
2**	2440.900	88.34	54.0	-34.34	AV	166.00	150	Vertical	N/A
3	4882.000	50.89	74.0	23.11	Peak	152.00	100	Vertical	Pass
3**	4882.000	44.60	54.0	9.40	AV	152.00	100	Vertical	Pass
4	4882.250	50.17	74.0	23.83	Peak	278.00	100	Vertical	Pass
4**	4882.250	46.31	54.0	7.69	AV	278.00	100	Vertical	Pass
5	6893.000	53.37	74.0	20.63	Peak	236.00	100	Vertical	Pass
5**	6893.000	44.81	54.0	9.19	AV	236.00	100	Vertical	Pass
6	16985.176	55.55	74.0	18.45	Peak	181.00	100	Vertical	Pass
6**	16985.176	46.89	54.0	7.11	AV	181.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1544.700	42.81	74.0	31.19	Peak	0.00	100	Horizontal	Pass
1**	1544.700	34.49	54.0	19.51	AV	0.00	100	Horizontal	Pass
2	2480.000	96.76	74.0	-22.76	Peak	247.00	200	Horizontal	N/A
2**	2480.000	96.00	54.0	-42.00	AV	247.00	200	Horizontal	N/A
3	4960.250	52.44	74.0	21.56	Peak	69.00	100	Horizontal	Pass
3**	4960.250	49.96	54.0	4.04	AV	69.00	100	Horizontal	Pass
4	4960.500	54.28	74.0	19.72	Peak	48.00	100	Horizontal	Pass
4**	4960.500	49.66	54.0	4.34	AV	48.00	100	Horizontal	Pass
5	6946.000	53.64	74.0	20.36	Peak	28.00	200	Horizontal	Pass
5**	6946.000	43.29	54.0	10.71	AV	28.00	200	Horizontal	Pass
6	16867.313	55.93	74.0	18.07	Peak	222.00	100	Horizontal	Pass
6**	16867.313	45.99	54.0	8.01	AV	222.00	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	42.75	74.0	31.25	Peak	190.00	100	Vertical	Pass
1**	1592.600	34.09	54.0	19.91	AV	190.00	100	Vertical	Pass
2	2480.100	92.70	74.0	-18.70	Peak	164.00	100	Vertical	N/A
2**	2480.100	92.14	54.0	-38.14	AV	164.00	100	Vertical	N/A
3	4960.000	52.68	74.0	21.32	Peak	133.00	150	Vertical	Pass
3**	4960.000	47.47	54.0	6.53	AV	133.00	150	Vertical	Pass
4	6889.000	54.13	74.0	19.87	Peak	174.00	100	Vertical	Pass
4**	6889.000	44.52	54.0	9.48	AV	174.00	100	Vertical	Pass
5	12507.037	53.65	74.0	20.35	Peak	360.00	300	Vertical	Pass
5**	12507.037	44.88	54.0	9.12	AV	360.00	300	Vertical	Pass
6	17017.200	55.69	74.0	18.31	Peak	120.00	300	Vertical	Pass
6**	17017.200	46.42	54.0	7.58	AV	120.00	300	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.400	42.29	74.0	31.71	Peak	318.00	400	Horizontal	Pass
1**	1518.400	32.95	54.0	21.05	AV	318.00	400	Horizontal	Pass
2	2402.200	91.85	74.0	-17.85	Peak	216.00	100	Horizontal	N/A
2**	2402.200	91.23	54.0	-37.23	AV	216.00	100	Horizontal	N/A
3	3861.250	46.61	74.0	27.39	Peak	137.00	100	Horizontal	Pass
3**	3861.250	42.11	54.0	11.89	AV	137.00	100	Horizontal	Pass
4	4804.000	51.60	74.0	22.40	Peak	219.00	100	Horizontal	Pass
4**	4804.000	46.53	54.0	7.47	AV	219.00	100	Horizontal	Pass
5	4804.250	51.25	74.0	22.75	Peak	97.00	100	Horizontal	Pass
5**	4804.250	48.17	54.0	5.83	AV	97.00	100	Horizontal	Pass
6	6895.750	53.98	74.0	20.02	Peak	303.00	400	Horizontal	Pass
6**	6895.750	45.04	54.0	8.96	AV	303.00	400	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1595.400	42.16	74.0	31.84	Peak	263.00	400	Vertical	Pass
1**	1595.400	32.73		21.27	AV	263.00	400	Vertical	Pass
2	2402.200	81.55	74.0	-7.55	Peak	217.00	200	Vertical	N/A
2**	2402.200	80.90	54.0	-26.90	AV	217.00	200	Vertical	N/A
3	4817.750	49.47	74.0	24.53	Peak	41.00	100	Vertical	Pass
3**	4817.750	40.75	54.0	13.25	AV	41.00	100	Vertical	Pass
4	7925.500	53.90	74.0	20.10	Peak	293.00	300	Vertical	Pass
4**	7925.500	43.42	54.0	10.58	AV	293.00	300	Vertical	Pass
5	12508.225	53.92	74.0	20.08	Peak	37.00	200	Vertical	Pass
5**	12508.225	44.69	54.0	9.31	AV	37.00	200	Vertical	Pass
6	17004.599	55.87	74.0	18.13	Peak	4.00	200	Vertical	Pass
6**	17004.599	46.81	54.0	7.19	AV	4.00	200	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1381.500	42.36	74.0	31.64	Peak	96.00	100	Horizontal	Pass
1**	1381.500	32.87	54.0	21.13	AV	96.00	100	Horizontal	Pass
2	2440.900	92.61	74.0	-18.61	Peak	196.00	100	Horizontal	N/A
2**	2440.900	91.34	54.0	-37.34	AV	196.00	100	Horizontal	N/A
3	4882.000	51.42	74.0	22.58	Peak	190.00	150	Horizontal	Pass
3**	4882.000	47.08	54.0	6.92	AV	190.00	150	Horizontal	Pass
4	4882.750	49.81	74.0	24.19	Peak	86.00	100	Horizontal	Pass
4**	4882.750	47.55	54.0	6.45	AV	86.00	100	Horizontal	Pass
5	6910.250	53.34	74.0	20.66	Peak	272.00	300	Horizontal	Pass
5**	6910.250	43.98	54.0	10.02	AV	272.00	300	Horizontal	Pass
6	17016.675	55.12	74.0	18.88	Peak	335.00	400	Horizontal	Pass
6**	17016.675	46.11	54.0	7.89	AV	335.00	400	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1523.400	42.10	74.0	31.90	Peak	358.00	400	Vertical	Pass
1**	1523.400	32.11	54.0	21.89	AV	358.00	400	Vertical	Pass
2	2441.200	83.52	74.0	-9.52	Peak	188.00	100	Vertical	N/A
2**	2441.200	83.05	54.0	-29.05	AV	188.00	100	Vertical	N/A
3	4878.250	49.73	74.0	24.27	Peak	299.00	200	Vertical	Pass
3**	4878.250	40.86	54.0	13.14	AV	299.00	200	Vertical	Pass
4	7534.000	53.52	74.0	20.48	Peak	360.00	100	Vertical	Pass
4**	7534.000	43.33	54.0	10.67	AV	360.00	100	Vertical	Pass
5	12482.338	53.81	74.0	20.19	Peak	47.00	200	Vertical	Pass
5**	12482.338	44.26	54.0	9.74	AV	47.00	200	Vertical	Pass
6	17401.238	55.50	74.0	18.50	Peak	55.00	200	Vertical	Pass
6**	17401.238	45.51	54.0	8.49	AV	55.00	200	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.500	42.18	74.0	31.82	Peak	149.00	100	Horizontal	Pass
1**	1445.500	31.68	54.0	22.32	AV	149.00	100	Horizontal	Pass
2	2480.000	97.00	74.0	-23.00	Peak	249.00	100	Horizontal	N/A
2**	2480.000	96.46	54.0	-42.46	AV	249.00	100	Horizontal	N/A
3	4960.250	50.69	74.0	23.31	Peak	32.00	150	Horizontal	Pass
3**	4960.250	44.73	54.0	9.27	AV	32.00	150	Horizontal	Pass
4	4960.500	50.32	74.0	23.68	Peak	317.00	100	Horizontal	Pass
4**	4960.500	46.50	54.0	7.50	AV	317.00	100	Horizontal	Pass
5	6895.250	53.81	74.0	20.19	Peak	216.00	100	Horizontal	Pass
5**	6895.250	44.80	54.0	9.20	AV	216.00	100	Horizontal	Pass
6	17204.888	56.08	74.0	17.92	Peak	237.00	100	Horizontal	Pass
6**	17204.888	46.25	54.0	7.75	AV	237.00	100	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1406.000	41.81	74.0	32.19	Peak	297.00	100	Vertical	Pass
1**	1406.000	32.52	54.0	21.48	AV	297.00	100	Vertical	Pass
2	2480.000	92.24	74.0	-18.24	Peak	149.00	200	Vertical	N/A
2**	2480.000	91.22	54.0	-37.22	AV	149.00	200	Vertical	N/A
3	4960.500	48.84	74.0	25.16	Peak	150.00	100	Vertical	Pass
3**	4960.500	44.91	54.0	9.09	AV	150.00	100	Vertical	Pass
4	4961.000	50.66	74.0	23.34	Peak	129.00	100	Vertical	Pass
4**	4961.000	41.68	54.0	12.32	AV	129.00	100	Vertical	Pass
5	6894.500	54.02	74.0	19.98	Peak	360.00	200	Vertical	Pass
5**	6894.500	46.10	54.0	7.90	AV	360.00	200	Vertical	Pass
6	16402.949	56.11	74.0	17.89	Peak	243.00	200	Vertical	Pass
6**	16402.949	46.61	54.0	7.39	AV	243.00	200	Vertical	Pass

Right Earphone:**GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.400	42.24	74.0	31.76	Peak	43.00	200	Horizontal	Pass
1**	1332.400	32.92	54.0	21.08	AV	43.00	200	Horizontal	Pass
2	2402.200	93.21	74.0	-19.21	Peak	210.00	200	Horizontal	N/A
2**	2402.200	92.44	54.0	-38.44	AV	210.00	200	Horizontal	N/A
3	4804.250	52.71	74.0	21.29	Peak	360.00	100	Horizontal	Pass
3**	4804.250	49.75	54.0	4.25	AV	360.00	100	Horizontal	Pass
4	4804.500	54.22	74.0	19.78	Peak	360.00	150	Horizontal	Pass
4**	4804.500	49.52	54.0	4.48	AV	360.00	150	Horizontal	Pass
5	6889.500	53.21	74.0	20.79	Peak	151.00	300	Horizontal	Pass
5**	6889.500	44.70	54.0	9.30	AV	151.00	300	Horizontal	Pass
6	12493.737	53.61	74.0	20.39	Peak	124.00	100	Horizontal	Pass
6**	12493.737	44.83	54.0	9.17	AV	124.00	100	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1340.000	42.77	74.0	31.23	Peak	0.00	400	Vertical	Pass
1**	1340.000	33.48	54.0	20.52	AV	0.00	400	Vertical	Pass
2	2402.300	87.57	74.0	-13.57	Peak	206.00	100	Vertical	N/A
2**	2402.300	86.79	54.0	-32.79	AV	206.00	100	Vertical	N/A
3	4804.000	51.51	74.0	22.49	Peak	231.00	200	Vertical	Pass
3**	4804.000	46.74	54.0	7.26	AV	231.00	200	Vertical	Pass
4	4804.250	51.50	74.0	22.50	Peak	333.00	100	Vertical	Pass
4**	4804.250	46.79	54.0	7.21	AV	333.00	100	Vertical	Pass
5	6912.750	53.96	74.0	20.04	Peak	209.00	200	Vertical	Pass
5**	6912.750	45.33	54.0	8.67	AV	209.00	200	Vertical	Pass
6	17026.912	54.97	74.0	19.03	Peak	238.00	400	Vertical	Pass
6**	17026.912	45.94	54.0	8.06	AV	238.00	400	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1531.200	43.15	74.0	30.85	Peak	0.00	400	Horizontal	Pass
1**	1531.200	32.80	54.0	21.20	AV	0.00	400	Horizontal	Pass
2	2440.900	94.74	74.0	-20.74	Peak	217.00	100	Horizontal	N/A
2**	2440.900	93.56	54.0	-39.56	AV	217.00	100	Horizontal	N/A
3	4882.250	53.97	74.0	20.03	Peak	194.00	100	Horizontal	Pass
3**	4882.250	50.67	54.0	3.33	AV	194.00	100	Horizontal	Pass
4	7967.500	53.60	74.0	20.40	Peak	194.00	100	Horizontal	Pass
4**	7967.500	44.59	54.0	9.41	AV	194.00	100	Horizontal	Pass
5	12525.563	53.55	74.0	20.45	Peak	156.00	100	Horizontal	Pass
5**	12525.563	44.13	54.0	9.87	AV	156.00	100	Horizontal	Pass
6	17036.364	55.53	74.0	18.47	Peak	273.00	400	Horizontal	Pass
6**	17036.364	46.05	54.0	7.95	AV	273.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1595.000	42.05	74.0	31.95	Peak	316.00	300	Vertical	Pass
1**	1595.000	33.51	54.0	20.49	AV	316.00	300	Vertical	Pass
2	2441.100	84.30	74.0	-10.30	Peak	214.00	150	Vertical	N/A
2**	2441.100	83.90	54.0	-29.90	AV	214.00	150	Vertical	N/A
3	4882.250	51.48	74.0	22.52	Peak	210.00	100	Vertical	Pass
3**	4882.250	48.14	54.0	5.86	AV	210.00	100	Vertical	Pass
4	4882.750	51.66	74.0	22.34	Peak	233.00	100	Vertical	Pass
4**	4882.750	46.78	54.0	7.22	AV	233.00	100	Vertical	Pass
5	7933.750	53.05	74.0	20.95	Peak	253.00	300	Vertical	Pass
5**	7933.750	44.47	54.0	9.53	AV	253.00	300	Vertical	Pass
6	17101.725	55.41	74.0	18.59	Peak	157.00	400	Vertical	Pass
6**	17101.725	46.58	54.0	7.42	AV	157.00	400	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1592.600	42.49	74.0	31.51	Peak	245.00	400	Horizontal	Pass
1**	1592.600	32.64	54.0	21.36	AV	245.00	400	Horizontal	Pass
2	2441.200	95.28	74.0	-21.28	Peak	216.00	150	Horizontal	N/A
2**	2441.200	94.45	54.0	-40.45	AV	216.00	150	Horizontal	N/A
3	4881.750	54.47	74.0	19.53	Peak	189.00	100	Horizontal	Pass
3**	4881.750	47.02	54.0	6.98	AV	189.00	100	Horizontal	Pass
4	4882.500	52.95	74.0	21.05	Peak	209.00	100	Horizontal	Pass
4**	4882.500	50.11	54.0	3.89	AV	209.00	100	Horizontal	Pass
5	7976.250	53.52	74.0	20.48	Peak	295.00	100	Horizontal	Pass
5**	7976.250	44.45	54.0	9.55	AV	295.00	100	Horizontal	Pass
6	17006.700	55.13	74.0	18.87	Peak	102.00	200	Horizontal	Pass
6**	17006.700	46.48	54.0	7.52	AV	102.00	200	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1411.500	41.86	74.0	32.14	Peak	357.00	200	Vertical	Pass
1**	1411.500	32.49	54.0	21.51	AV	357.00	200	Vertical	Pass
2	2441.200	87.41	74.0	-13.41	Peak	187.00	100	Vertical	N/A
2**	2441.200	86.85	54.0	-32.85	AV	187.00	100	Vertical	N/A
3	4882.000	50.62	74.0	23.38	Peak	219.00	100	Vertical	Pass
3**	4882.000	47.19	54.0	6.81	AV	219.00	100	Vertical	Pass
4	4882.750	51.40	74.0	22.60	Peak	158.00	100	Vertical	Pass
4**	4882.750	45.87	54.0	8.13	AV	158.00	100	Vertical	Pass
5	7913.000	53.61	74.0	20.39	Peak	343.00	100	Vertical	Pass
5**	7913.000	43.90	54.0	10.10	AV	343.00	100	Vertical	Pass
6	17042.400	56.03	74.0	17.97	Peak	133.00	100	Vertical	Pass
6**	17042.400	46.28	54.0	7.72	AV	133.00	100	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1559.300	42.21	74.0	31.79	Peak	128.00	400	Horizontal	Pass
1**	1559.300	33.29	54.0	20.71	AV	128.00	400	Horizontal	Pass
2	2402.200	92.26	74.0	-18.26	Peak	0.00	100	Horizontal	N/A
2**	2402.200	91.89	54.0	-37.89	AV	0.00	100	Horizontal	N/A
3	4803.500	50.53	74.0	23.47	Peak	201.00	150	Horizontal	Pass
3**	4803.500	42.22	54.0	11.78	AV	201.00	150	Horizontal	Pass
4	4804.500	49.84	74.0	24.16	Peak	61.00	100	Horizontal	Pass
4**	4804.500	47.13	54.0	6.87	AV	61.00	100	Horizontal	Pass
5	11815.675	53.86	74.0	20.14	Peak	113.00	200	Horizontal	Pass
5**	11815.675	42.45	54.0	11.55	AV	113.00	200	Horizontal	Pass
6	17130.864	55.54	74.0	18.46	Peak	72.00	100	Horizontal	Pass
6**	17130.864	45.27	54.0	8.73	AV	72.00	100	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1458.200	47.32	74.0	26.68	Peak	202.00	300	Vertical	Pass
1**	1458.200	32.35	54.0	21.65	AV	202.00	300	Vertical	Pass
2	2402.200	84.08	74.0	-10.08	Peak	82.00	100	Vertical	N/A
2**	2402.200	83.66	54.0	-29.66	AV	82.00	100	Vertical	N/A
3	4803.750	49.73	74.0	24.27	Peak	118.00	200	Vertical	Pass
3**	4803.750	42.78	54.0	11.22	AV	118.00	200	Vertical	Pass
4	4804.500	49.14	74.0	24.86	Peak	140.00	100	Vertical	Pass
4**	4804.500	45.30	54.0	8.70	AV	140.00	100	Vertical	Pass
5	12997.012	53.59	74.0	20.41	Peak	230.00	200	Vertical	Pass
5**	12997.012	43.90	54.0	10.10	AV	230.00	200	Vertical	Pass
6	16996.988	55.65	74.0	18.35	Peak	29.00	100	Vertical	Pass
6**	16996.988	46.49	54.0	7.51	AV	29.00	100	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	41.85	74.0	32.15	Peak	334.00	300	Horizontal	Pass
1**	1599.800	33.50	54.0	20.50	AV	334.00	300	Horizontal	Pass
2	2441.200	92.09	74.0	-18.09	Peak	356.00	150	Horizontal	N/A
2**	2441.200	91.76	54.0	-37.76	AV	356.00	150	Horizontal	N/A
3	4882.250	52.86	74.0	21.14	Peak	67.00	100	Horizontal	Pass
3**	4882.250	50.47	54.0	3.53	AV	67.00	100	Horizontal	Pass
4	4882.500	51.44	74.0	22.56	Peak	67.00	100	Horizontal	Pass
4**	4882.500	50.59	54.0	3.41	AV	67.00	100	Horizontal	Pass
5	12490.412	53.34	74.0	20.66	Peak	51.00	300	Horizontal	Pass
5**	12490.412	44.81	54.0	9.19	AV	51.00	300	Horizontal	Pass
6	16870.199	55.54	74.0	18.46	Peak	192.00	200	Horizontal	Pass
6**	16870.199	45.87	54.0	8.13	AV	192.00	200	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1476.100	42.32	74.0	31.68	Peak	230.00	300	Vertical	Pass
1**	1476.100	32.14	54.0	21.86	AV	230.00	300	Vertical	Pass
2	2441.100	86.46	74.0	-12.46	Peak	82.00	150	Vertical	N/A
2**	2441.100	86.09	54.0	-32.09	AV	82.00	150	Vertical	N/A
3	4882.250	49.62	74.0	24.38	Peak	343.00	100	Vertical	Pass
3**	4882.250	43.26	54.0	10.74	AV	343.00	100	Vertical	Pass
4	4882.500	48.69	74.0	25.31	Peak	238.00	100	Vertical	Pass
4**	4882.500	44.65	54.0	9.35	AV	238.00	100	Vertical	Pass
5	12570.213	53.91	74.0	20.09	Peak	315.00	300	Vertical	Pass
5**	12570.213	43.01	54.0	10.99	AV	315.00	300	Vertical	Pass
6	15904.987	55.22	74.0	18.78	Peak	165.00	400	Vertical	Pass
6**	15904.987	44.73	54.0	9.27	AV	165.00	400	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.400	42.42	74.0	31.58	Peak	124.00	100	Horizontal	Pass
1**	1512.400	33.29	54.0	20.71	AV	124.00	100	Horizontal	Pass
2	2480.000	92.44	74.0	-18.44	Peak	27.00	150	Horizontal	N/A
2**	2480.000	91.54	54.0	-37.54	AV	27.00	150	Horizontal	N/A
3	4959.750	52.69	74.0	21.31	Peak	57.00	100	Horizontal	Pass
3**	4959.750	48.86	54.0	5.14	AV	57.00	100	Horizontal	Pass
4	4960.500	52.36	74.0	21.64	Peak	75.00	100	Horizontal	Pass
4**	4960.500	49.73	54.0	4.27	AV	75.00	100	Horizontal	Pass
5	12513.925	53.66	74.0	20.34	Peak	360.00	200	Horizontal	Pass
5**	12513.925	45.15	54.0	8.85	AV	360.00	200	Horizontal	Pass
6	16992.525	55.21	74.0	18.79	Peak	141.00	300	Horizontal	Pass
6**	16992.525	45.86	54.0	8.14	AV	141.00	300	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1475.600	42.24	74.0	31.76	Peak	6.00	100	Vertical	Pass
1**	1475.600	32.19	54.0	21.81	AV	6.00	100	Vertical	Pass
2	2480.200	88.68	74.0	-14.68	Peak	146.00	200	Vertical	N/A
2**	2480.200	88.07	54.0	-34.07	AV	146.00	200	Vertical	N/A
3	4959.750	48.03	74.0	25.97	Peak	105.00	100	Vertical	Pass
3**	4959.750	44.70	54.0	9.30	AV	105.00	100	Vertical	Pass
4	4972.000	49.40	74.0	24.60	Peak	360.00	150	Vertical	Pass
4**	4972.000	39.61	54.0	14.39	AV	360.00	150	Vertical	Pass
5	12479.013	53.56	74.0	20.44	Peak	38.00	400	Vertical	Pass
5**	12479.013	44.18	54.0	9.82	AV	38.00	400	Vertical	Pass
6	14453.625	55.33	74.0	18.67	Peak	266.00	300	Vertical	Pass
6**	14453.625	46.76	54.0	7.24	AV	266.00	300	Vertical	Pass

A.9 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

Test Data and Plots

Left Earphone:

GFSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2326.650	55.81	74.0	18.19	Peak	271.00	150	Horizontal	Pass
1**	2326.650	44.00	54.0	10.00	AV	271.00	150	Horizontal	Pass
2	2389.950	53.20	74.0	20.80	Peak	132.00	200	Horizontal	Pass
2**	2389.950	43.09	54.0	10.91	AV	132.00	200	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	54.86	74.0	19.14	Peak	142.00	100	Horizontal	Pass
1**	2483.590	43.83	54.0	10.17	AV	142.00	100	Horizontal	Pass
2	2493.430	55.21	74.0	18.79	Peak	207.00	150	Horizontal	Pass
2**	2493.430	44.15	54.0	9.85	AV	207.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2341.550	55.40	74.0	18.60	Peak	45.00	150	Horizontal	Pass
1**	2341.550	44.00	54.0	10.00	AV	45.00	150	Horizontal	Pass
2	2389.950	52.73	74.0	21.27	Peak	295.00	150	Horizontal	Pass
2**	2389.950	43.10	54.0	10.90	AV	295.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	53.87	74.0	20.13	Peak	290.00	100	Horizontal	Pass
1**	2483.590	43.92	54.0	10.08	AV	290.00	100	Horizontal	Pass
2	2499.190	55.50	74.0	18.50	Peak	315.00	100	Horizontal	Pass
2**	2499.190	43.69	54.0	10.31	AV	315.00	100	Horizontal	Pass

Right Earphone:**GFSK LOW CHANNEL**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2335.700	55.71	74.0	18.29	Peak	284.00	150	Horizontal	Pass
1**	2335.700	43.63	54.0	10.37	AV	284.00	150	Horizontal	Pass
2	2389.950	52.70	74.0	21.30	Peak	66.00	200	Horizontal	Pass
2**	2389.950	43.05	54.0	10.95	AV	66.00	200	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.81	74.0	20.19	Peak	144.00	100	Horizontal	Pass
1**	2483.500	43.64	54.0	10.36	AV	144.00	100	Horizontal	Pass
2	2496.445	55.62	74.0	18.38	Peak	337.00	150	Horizontal	Pass
2**	2496.445	43.92	54.0	10.08	AV	337.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2348.950	55.82	74.0	18.18	Peak	79.00	100	Horizontal	Pass
1**	2348.950	43.90	54.0	10.10	AV	79.00	100	Horizontal	Pass
2	2389.950	53.10	74.0	20.90	Peak	306.00	150	Horizontal	Pass
2**	2389.950	43.20	54.0	10.80	AV	306.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	53.82	74.0	20.18	Peak	291.00	100	Horizontal	Pass
1**	2483.590	43.72	54.0	10.28	AV	291.00	100	Horizontal	Pass
2	2487.235	55.30	74.0	18.70	Peak	177.00	100	Horizontal	Pass
2**	2487.235	43.88	54.0	10.12	AV	177.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24B0122-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24B0122-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24B0122-AI.PDF”.

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--END OF REPORT--