

TEST REPORT

Applicant: Shenzhen Dancing Future Technology Ltd.
Address: Room 314, Block H2, OCT east industrial area, No1
Xiangshan east street, Guanghua community,
Shahe street, Nanshan district, Shenzhen China
Equipment Type: Oladance Wearable Stereo B2
Model Name: OLA06
Brand Name: Oladance
FCC ID: 2A9AR-OLA06L
ISED Number: 29727-OLA06L
HVIN: OLA06L
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 2
(refer section 3.1)
Test Date: Sep. 29, 2022 - Oct. 12, 2022
Date of Issue: Nov. 28, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 28, 2022</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. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Dancing Future Technology Ltd.
Address	Room 314, Block H2, OCT east industrial area, No1 Xiangshan east street, Guanghua community, Shahe street, Nanshan district, Shenzhen China

2.2 Manufacturer Information

Manufacturer	Shenzhen Dancing Future Technology Ltd.
Address	Room 314, Block H2, OCT east industrial area, No1 Xiangshan east street, Guanghua community, Shahe street, Nanshan district, Shenzhen China

2.3 Factory Information

Factory	LianGang Optoelectronic Technology Co., Ltd.
Address	150 JingHai West Road, ShaQu Village ShaTou Area, ChangAn Town, DongGuan GuangDong, P.R. China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Oladance Wearable Stereo B2
Model Name Under Test	OLA06
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	D10OLA06GYA123M0000001
Hardware Version	V1.0
Software Version	V105
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE)
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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	LDS Antenna
Antenna Gain	-0.2 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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 2	Digital Transmission Systems (DTSS), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
5	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.	ISED Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	RSS-247, 5.4 (f)	N/A	--	Pass	Note ¹
2	Number of Hopping Frequencies	15.247(a)	RSS-247, 5.1 (d)	Hopping Mode	ANNEX A.1	Pass	Note ²
3	Peak Output Power and E.I.R.P	15.247(b)	RSS-247, 5.4 (b)	Low/Middle/High	ANNEX A.2	Pass	--
4	Occupied Bandwidth	15.247(a)	RSS-247, 5.1 (a)	Low/Middle/High	ANNEX A.3	Pass	Note ²
5	Carrier Frequency Separation	15.247(a)	RSS-247, 5.1 (b)	Hopping Mode	ANNEX A.4	Pass	Note ²
6	Time of Occupancy (Dwell time)	15.247(a)	RSS-247, 5.1 (d)	Hopping Mode	ANNEX A.5	Pass	Note ²
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	RSS-247, 5.5	Hopping Mode; Low/Middle/High	ANNEX A.6	Pass	Note ²
8	Conducted Emission	15.207	RSS-GEN, 8.8	Low/Middle/High	ANNEX A.7	Pass	Note ²
9	Radiated Spurious Emission	15.209 15.247(d)	RSS-247, 5.5	Low/Middle/High	ANNEX A.8	Pass	Note ²
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	RSS-247, 5.5	Low/High	ANNEX A.9	Pass	Note ²
11	Receiver Spurious Emissions	--	RSS-Gen, 7.3	--	--	N/A	Note ³

Note ¹: Please refer to section 5.1

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.

Note ³: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	37% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.1°C to +24.9°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2022.07.26	2023.07.25
Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2022.05.19	2023.05.18
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2022.09.06	2023.09.05
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2022.06.29	2023.06.28
Test Antenna-Horn (1-18 GHz)	SCHWARZBECK	BBHA 9120D	02460	2021.05.19	2024.05.08
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.08.16	2024.08.15
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2022.09.09	2023.09.08
Test Antenna-Bi-Log (30 MHz-1 GHz)	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop (9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2022.06.01	2023.05.31
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	N/A	2022.02.19	2025.02.18

4.3 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	0.82°C
Humidity	4.1%

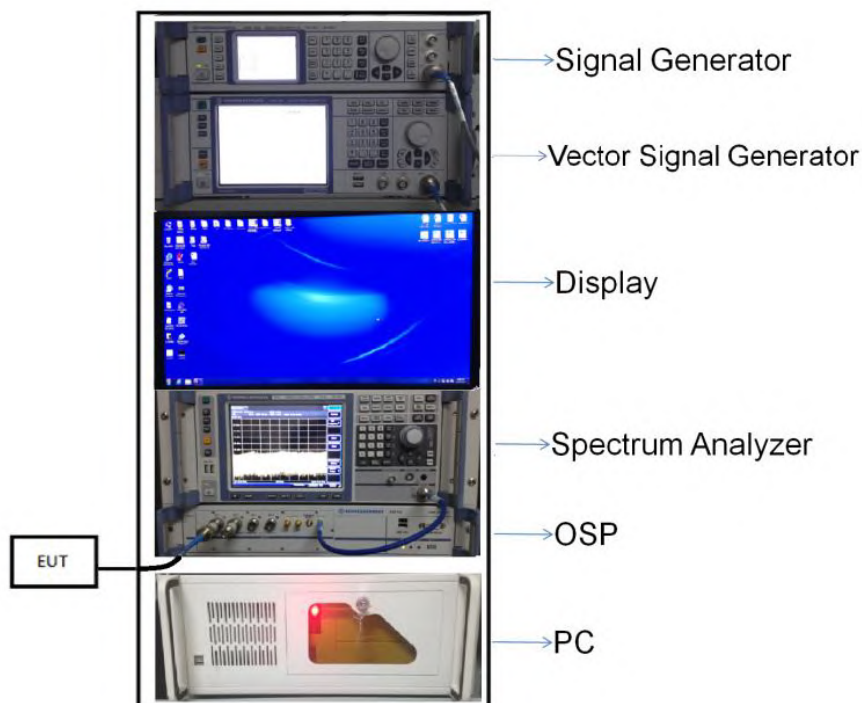
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

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

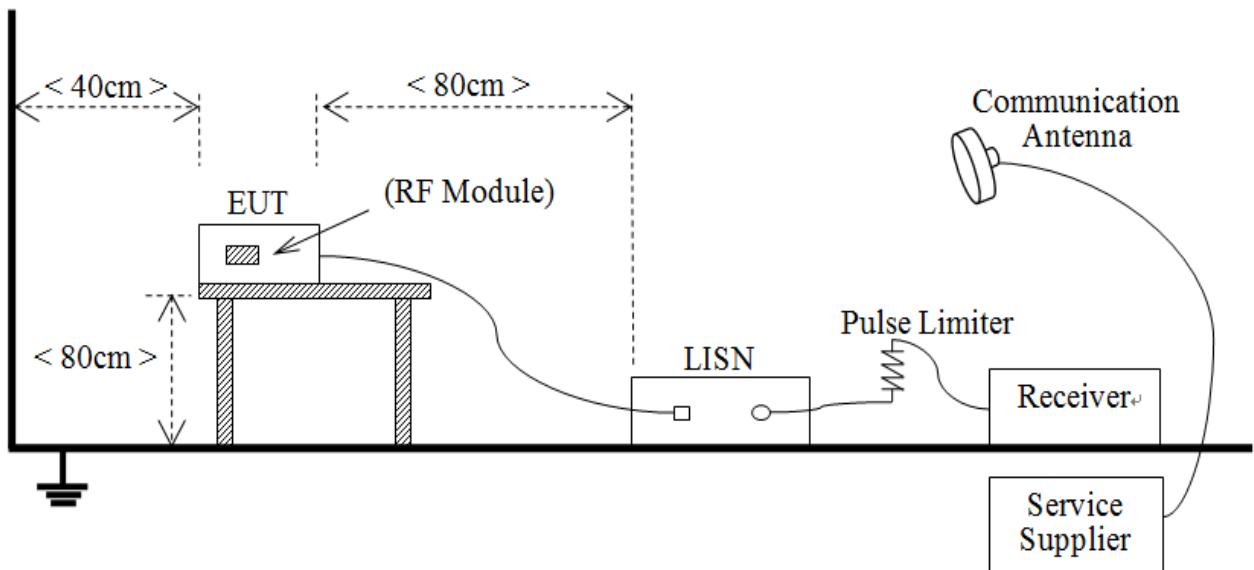
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



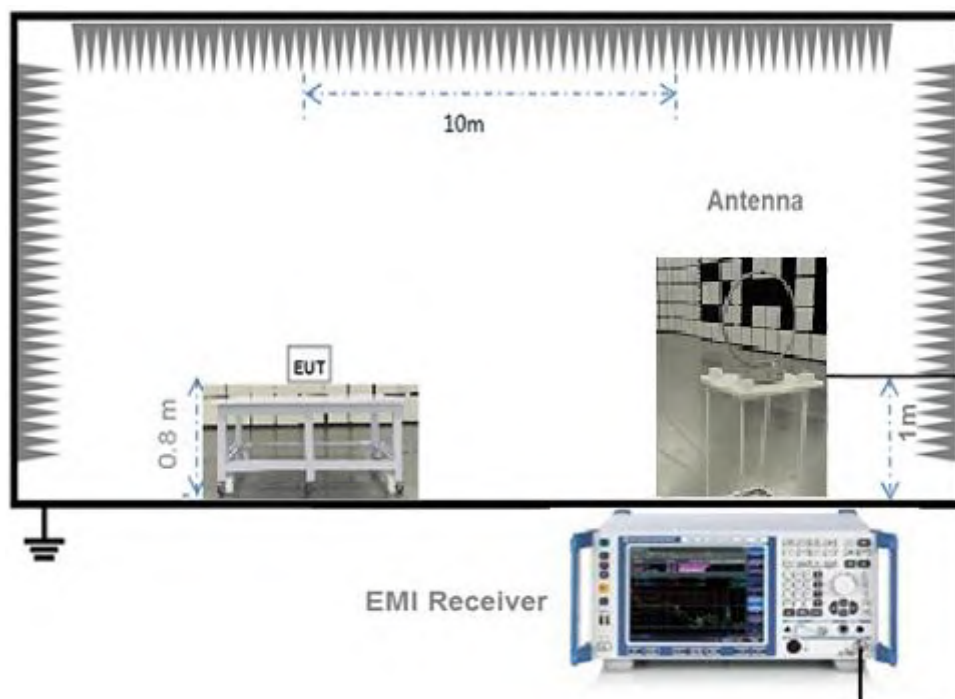
(Diagram 1)

4.4.2 For AC Power Supply Port Test



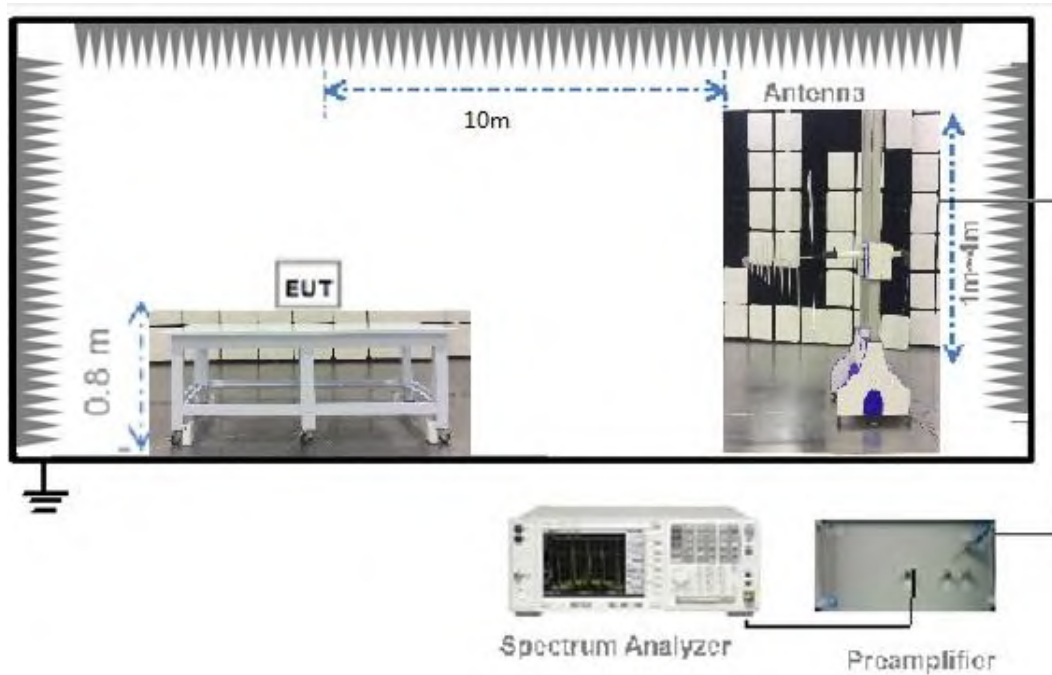
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



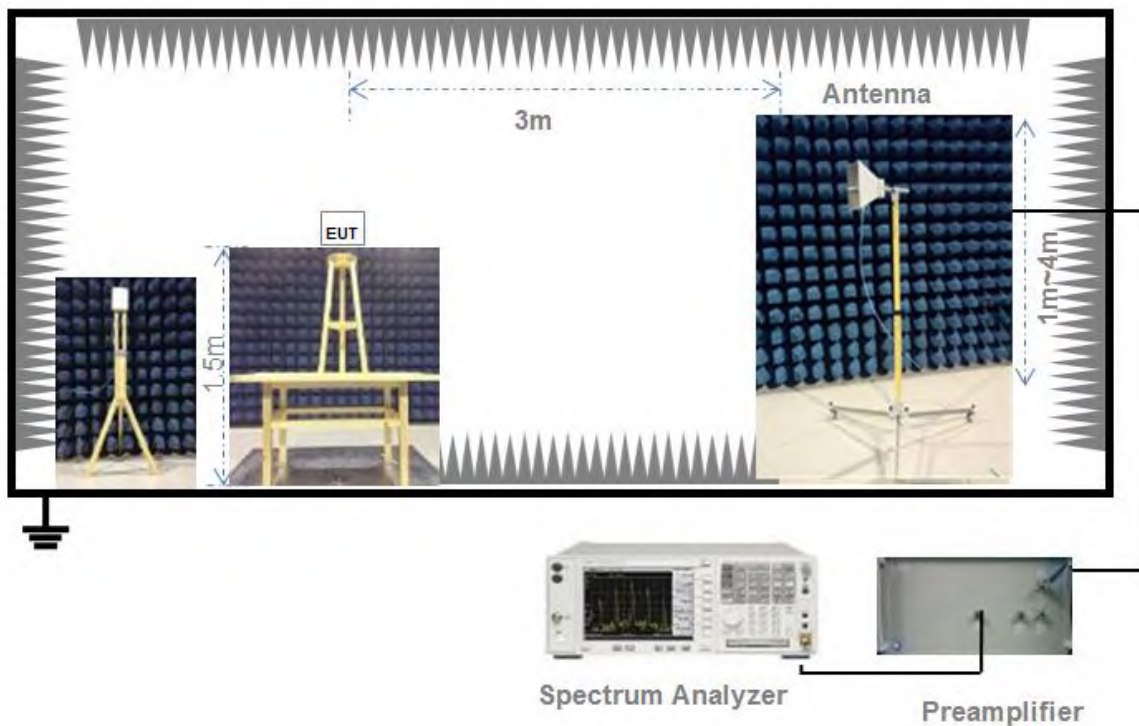
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 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); RSS-247, 5.4 (f)

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.

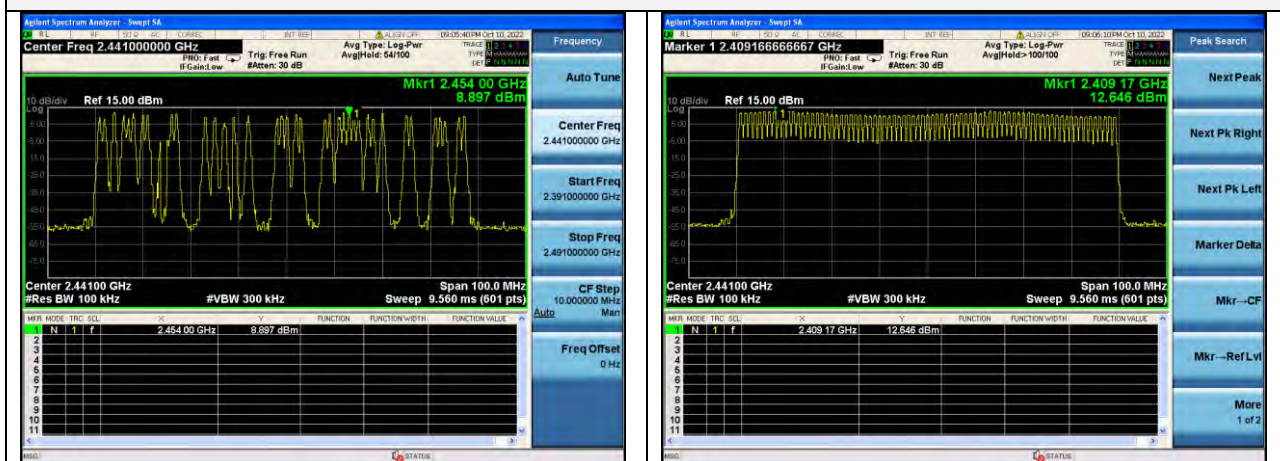
For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts,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

Reference Documents



3. 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.
4. 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.
5. Connected devices communicate on the same physical channel by synchronizing with a common clock and hopping sequence.
6. EUT isn't short burst systems.
7. 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); RSS-247, 5.1 (d)

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 and E.I.R.P

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.

RSS-247, 5.4 (b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

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); RSS-247, 5.1 (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); RSS-247, 5.1 (b)

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); RSS-247, 5.1 (d)

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); RSS-247, 5.5

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; RSS-GEN, 8.8

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); RSS-247, 5.5

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

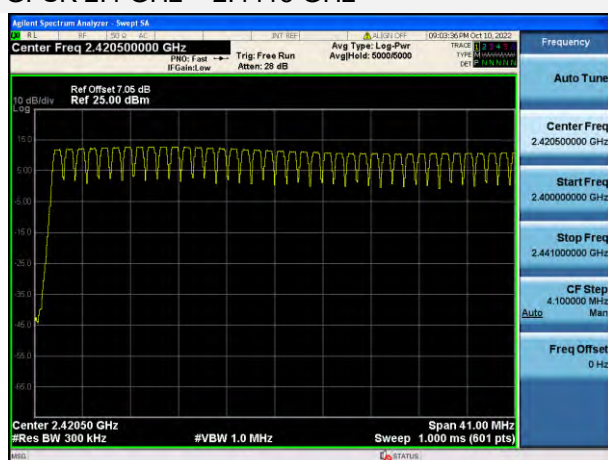
A.1 Number of Hopping Frequency

Test Data

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

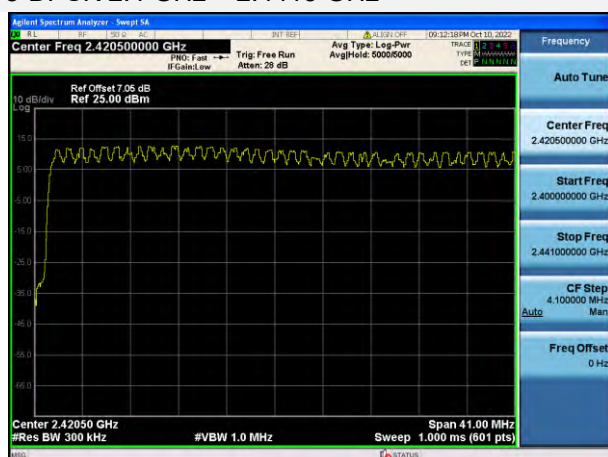
GFSK 2.4 GHz ~ 2.4415 GHz



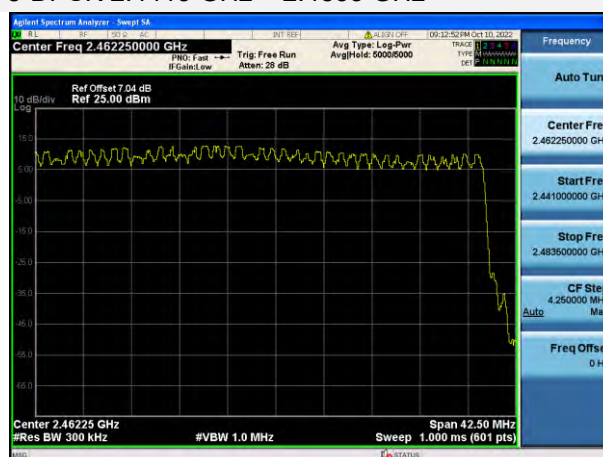
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz



8-DPSK 2.4415 GHz ~ 2.4835 GHz



A.2 Peak Output Power and E.I.R.P

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	12.12	16.28	12.08	16.13	12.06	16.06	21	125	Pass
Middle	11.08	12.81	11.04	12.70	11.04	12.71			Pass
High	10.27	10.64	10.26	10.61	10.28	10.67			Pass

E.I.R.P Test Data (For ISSED)

Channel	E.I.R.P						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	11.92	15.55	11.88	15.40	11.86	15.34	36	4000	Pass
Middle	10.88	12.23	10.84	12.13	10.84	12.13			Pass
High	10.07	10.16	10.06	10.13	10.08	10.19			Pass

Test Plots

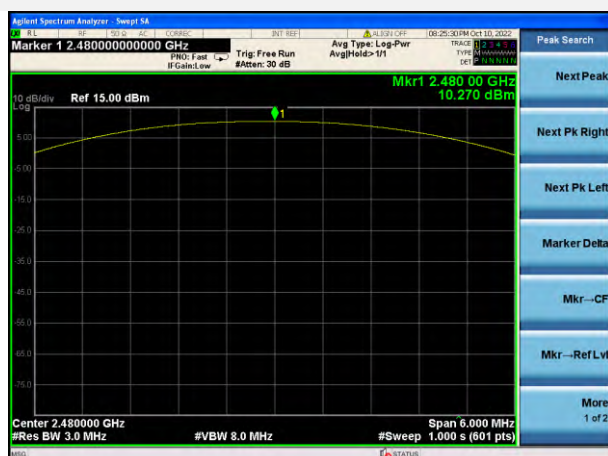
GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

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

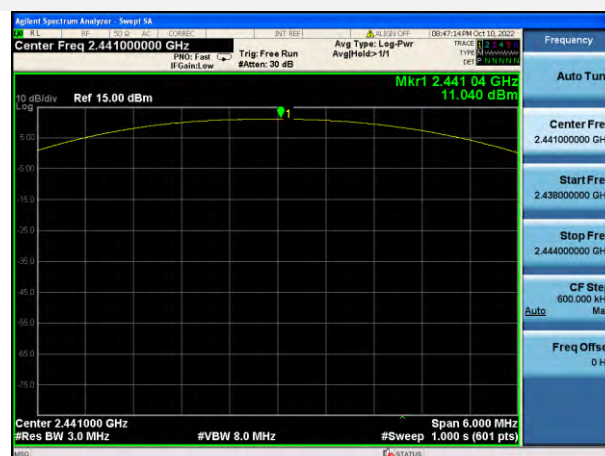
$\pi/4$ -DQPSK HIGH CHANNEL



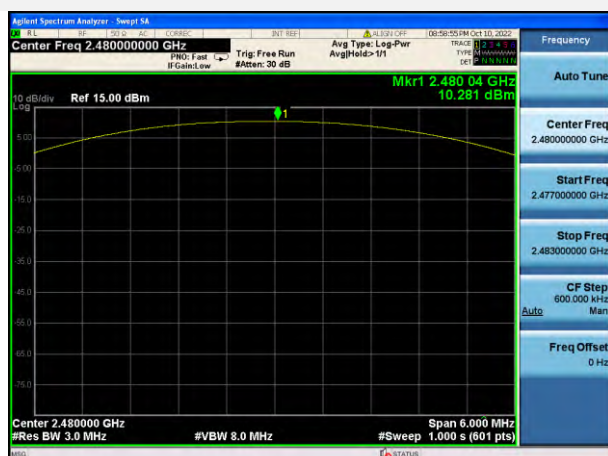
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.3 20 dB and 99% bandwidth

Test Data

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	0.955000	0.853850
Middle	0.955000	0.855530
High	0.960000	0.854900
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.275000	1.151400
Middle	1.280000	1.152100
High	1.285000	1.160100
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.275000	1.155500
Middle	1.275000	1.152400
High	1.285000	1.165000



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



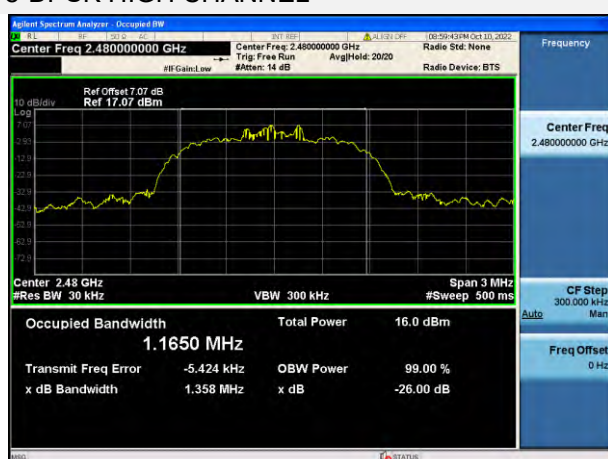
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



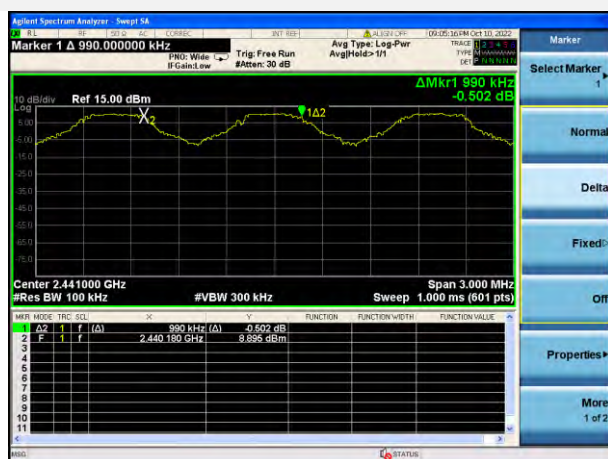
A.4 Hopping Frequency Separation

Test Data

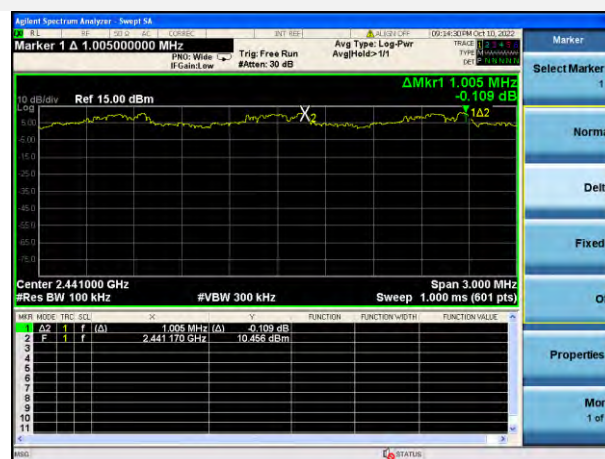
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	0.990	0.640	Pass
8-DPSK	1.005	0.857	Pass

Test Plots

GFSK



8-DPSK



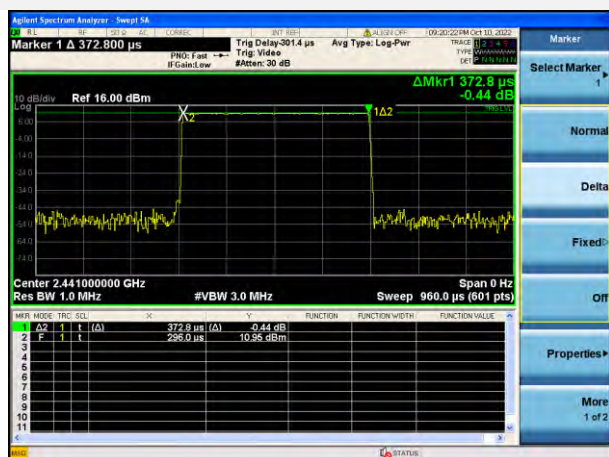
A.5 Average Time of Occupancy

Test Data

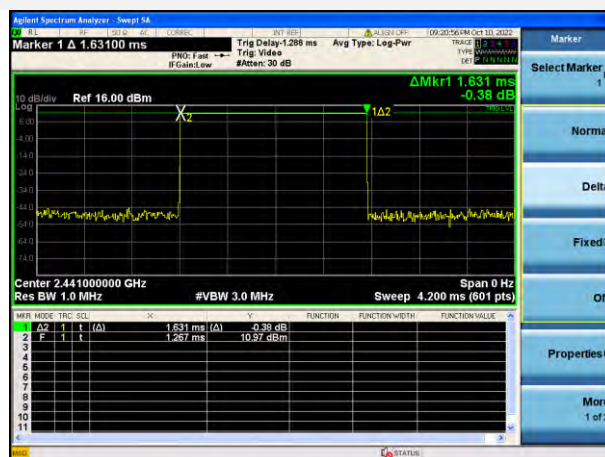
GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37280	119.296	0.4	Pass
DH 3	1.63100	260.960	0.4	Pass
DH 5	2.87600	306.773	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	122.368	0.4	Pass
DH 3	1.63100	260.960	0.4	Pass
DH 5	2.88800	308.053	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37280	59.648	0.4	Pass
DH 3	1.63100	130.480	0.4	Pass
DH 5	2.87600	153.387	0.4	Pass

Test Plots

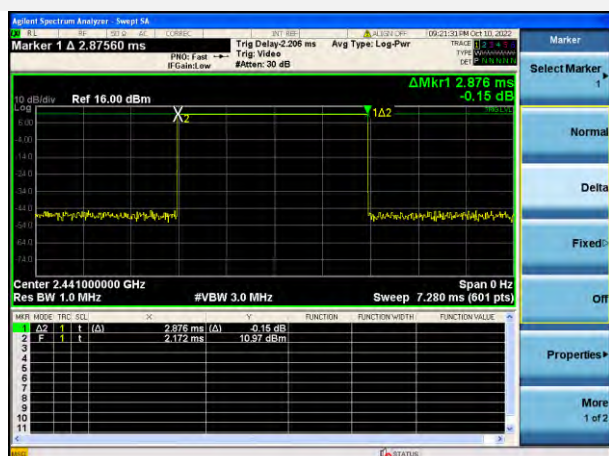
GFSK DH1



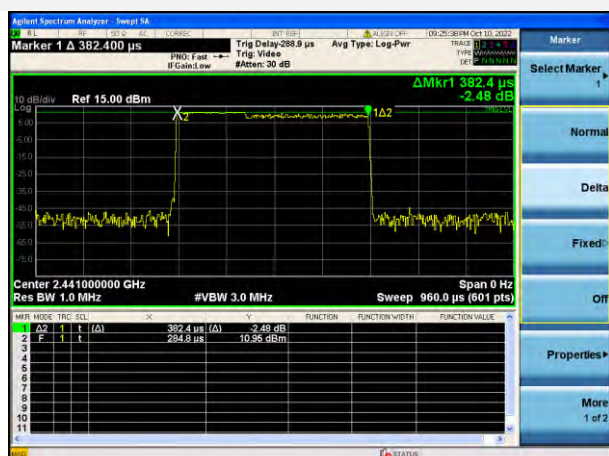
GFSK DH3



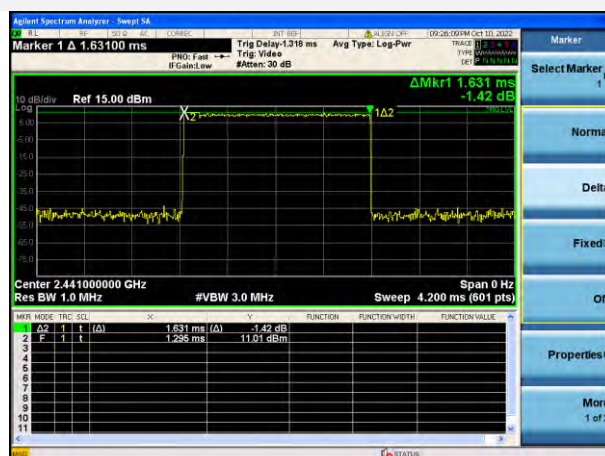
GFSK DH5



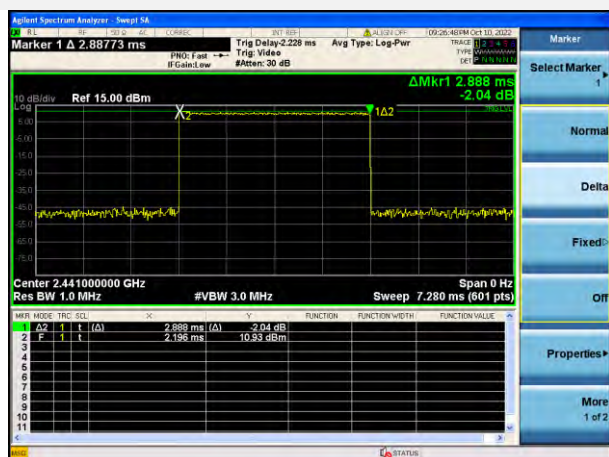
8-DPSK DH1



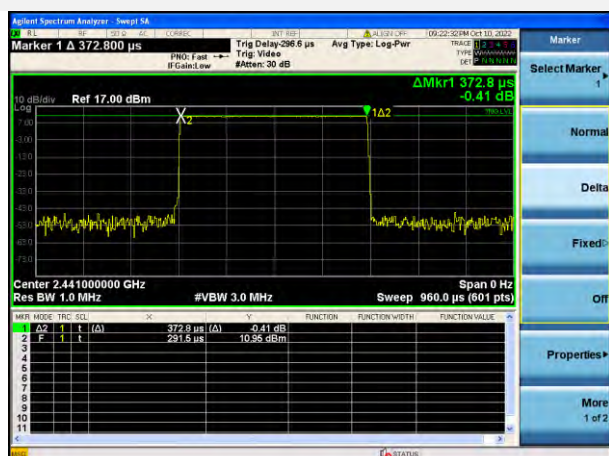
8-DPSK DH3



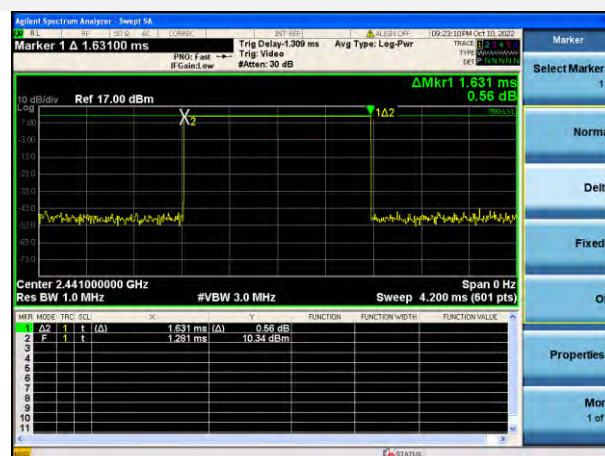
8-DPSK DH5



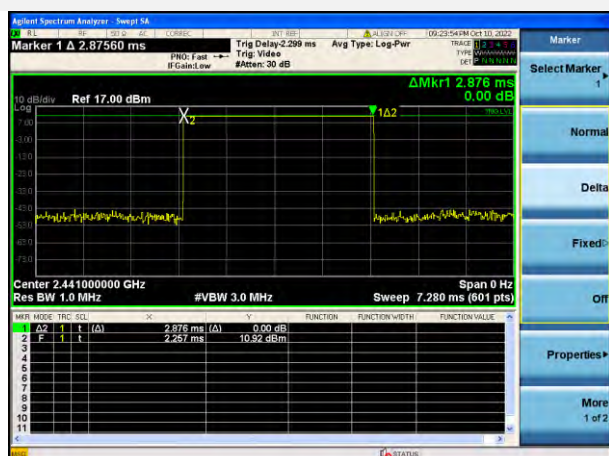
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-40.54	11.86	-8.14	Pass
Middle	-38.86	10.78	-9.22	Pass
High	-40.56	10.01	-9.99	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.80	11.79	-8.22	Pass
Middle	-40.71	10.81	-9.19	Pass
High	-39.63	10.04	-9.96	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-40.16	12.65	-7.35	Pass
8-DPSK	-40.20	12.39	-7.61	Pass

Test Plots

GFSK LOW CHANNEL, CARRIER LEVEL

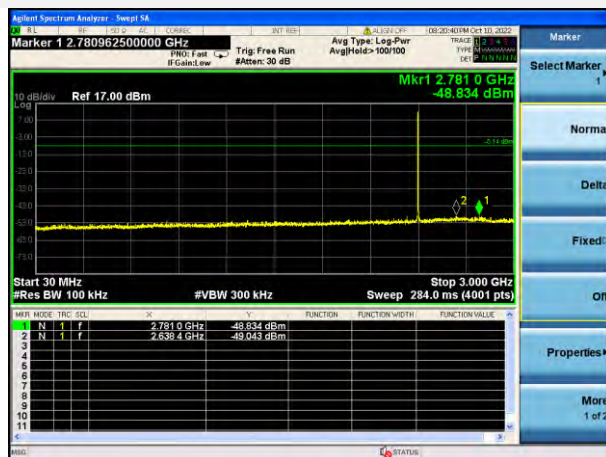


GFSK LOW CHANNEL, BAND EDGE



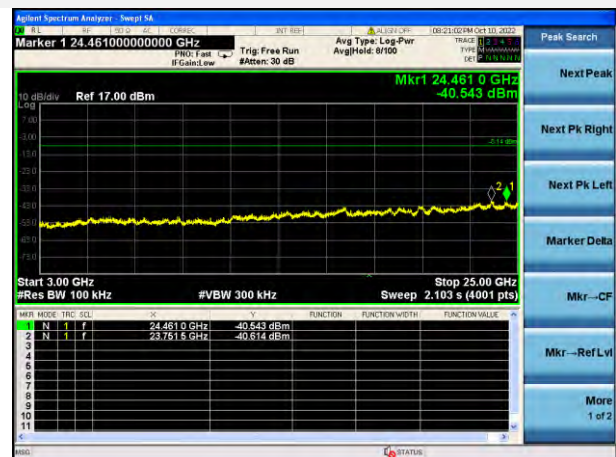
GFSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz



GFSK LOW CHANNEL, SPURIOUS

3 GHz ~ 25 GHz

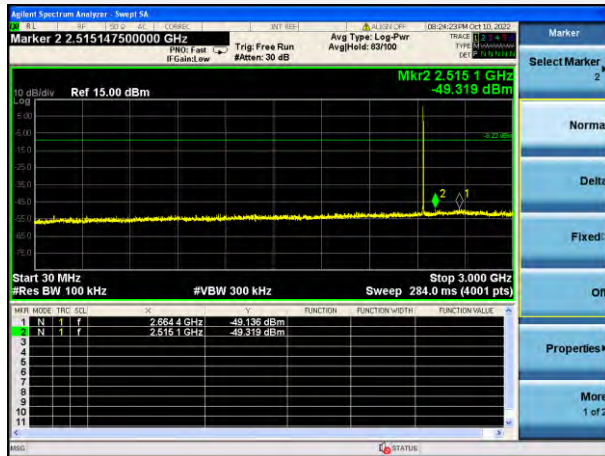


GFSK MIDDLE CHANNEL, CARRIER LEVEL



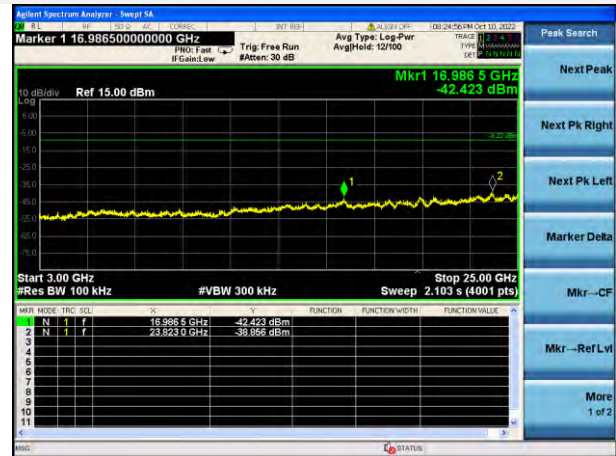
GFSK MIDDLE CHANNEL, SPURIOUS

30 MHz ~ 3 GHz



GFSK MIDDLE CHANNEL, SPURIOUS

3 GHz ~ 25 GHz



GFSK HIGH CHANNEL, CARRIER LEVEL

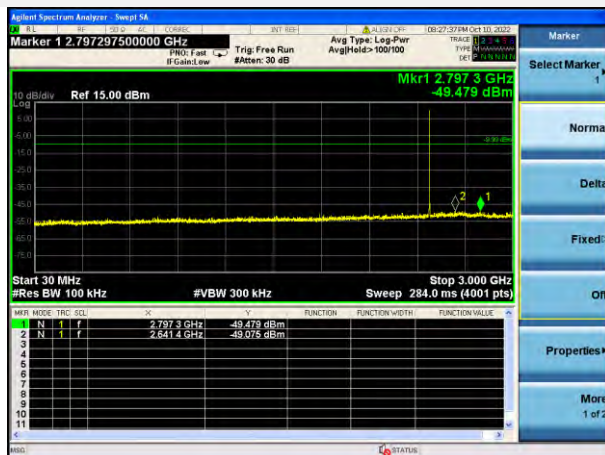


GFSK HIGH CHANNEL, BAND EDGE



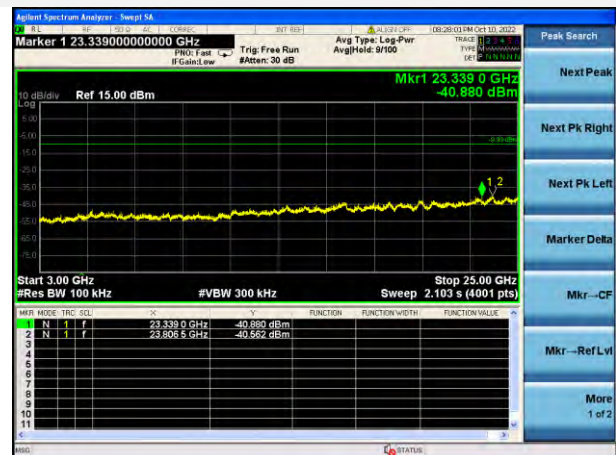
GFSK HIGH CHANNEL, SPURIOUS

30 MHz ~ 3 GHz



GFSK HIGH CHANNEL, SPURIOUS

3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

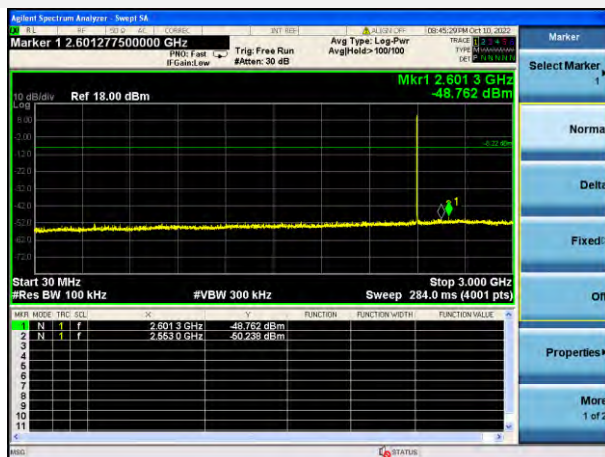


8-DPSK LOW CHANNEL, BAND EDGE



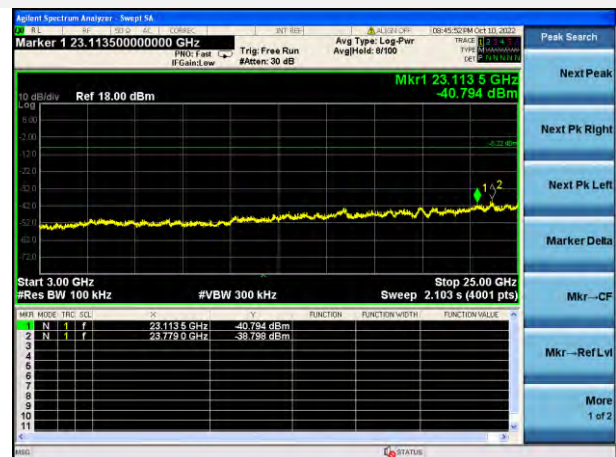
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

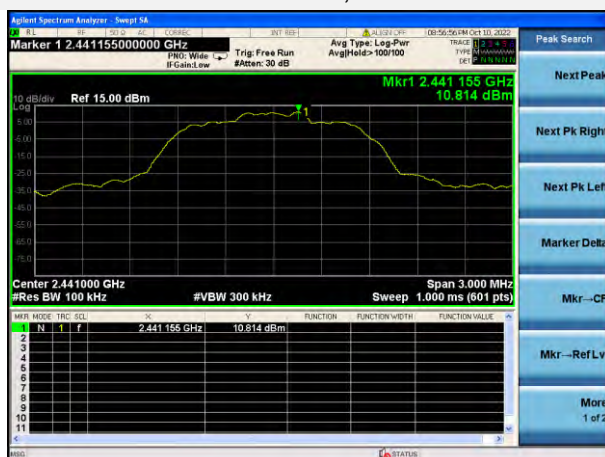


8-DPSK LOW CHANNEL, SPURIOUS

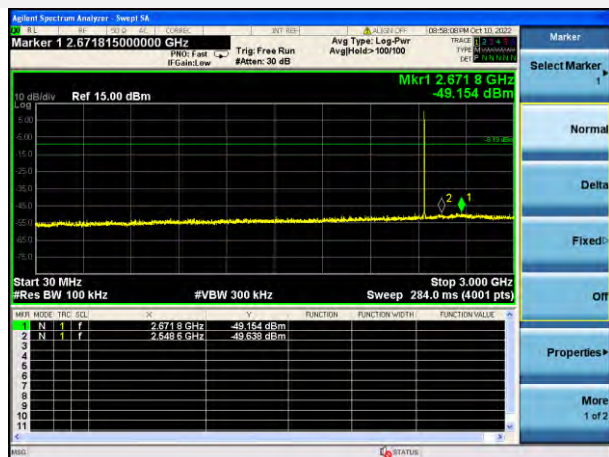
3 GHz ~ 25 GHz



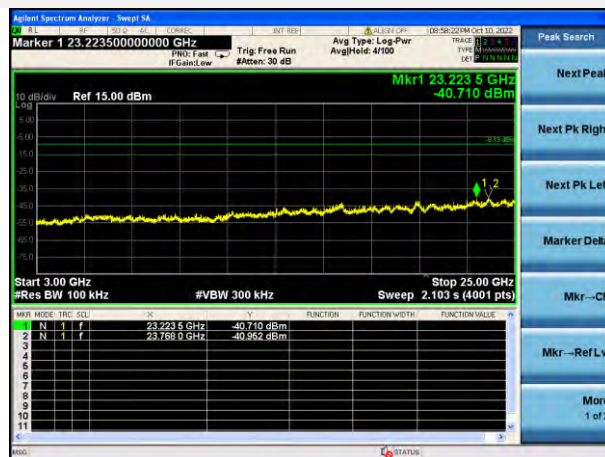
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



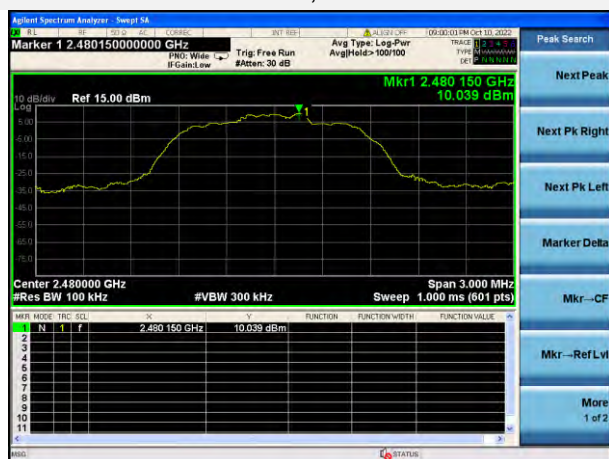
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



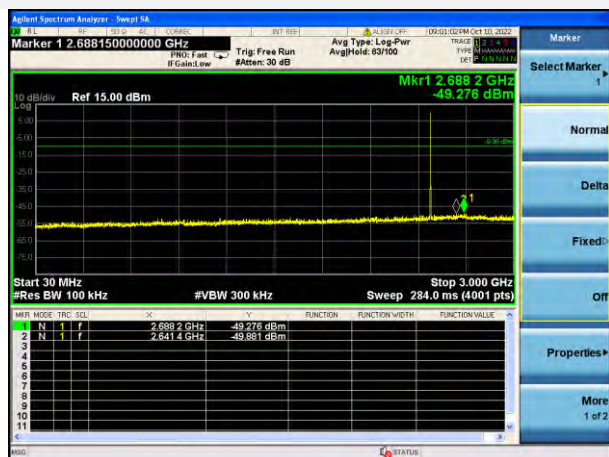
8-DPSK HIGH CHANNEL, CARRIER LEVEL



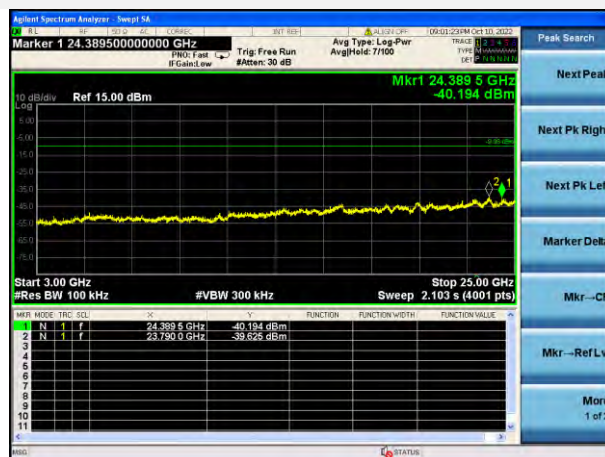
8-DPSK HIGH CHANNEL, BAND EDGE



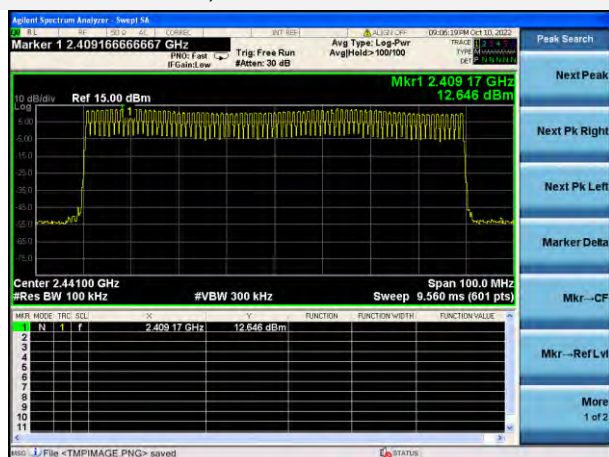
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



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



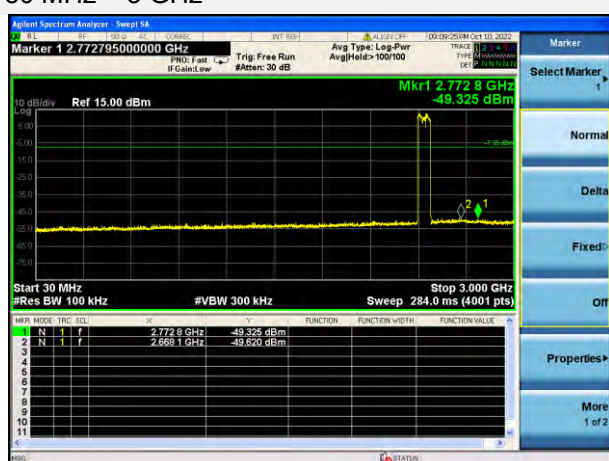
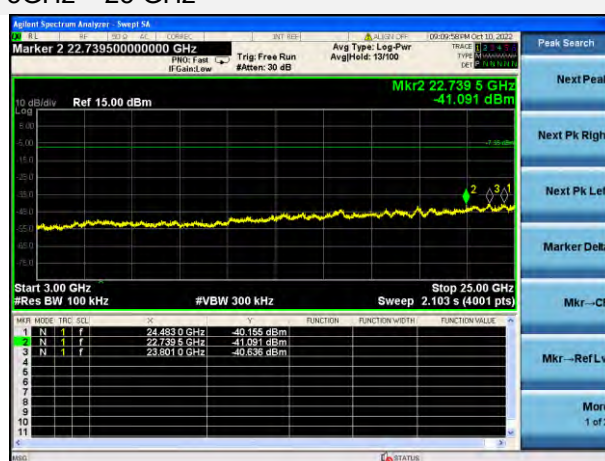
GFSK HOPPING, CARRIER LEVEL



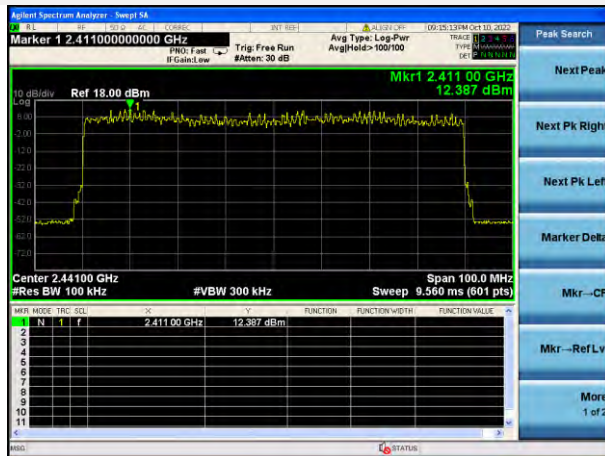
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)

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

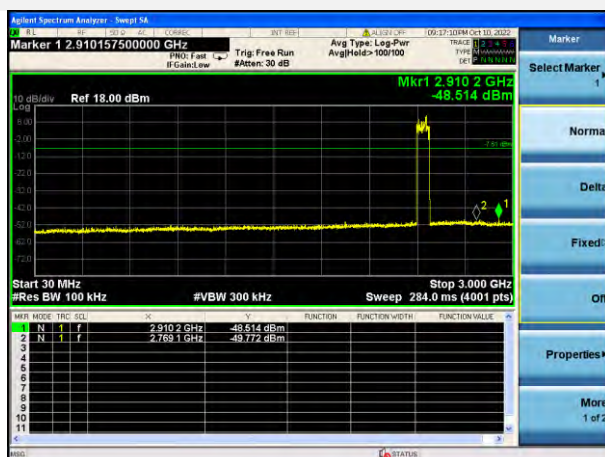
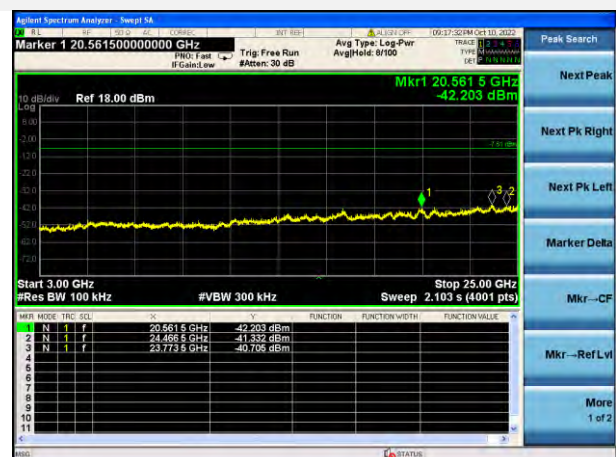
8-DPSK HOPPING, CARRIER LEVEL



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

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note ²: 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.

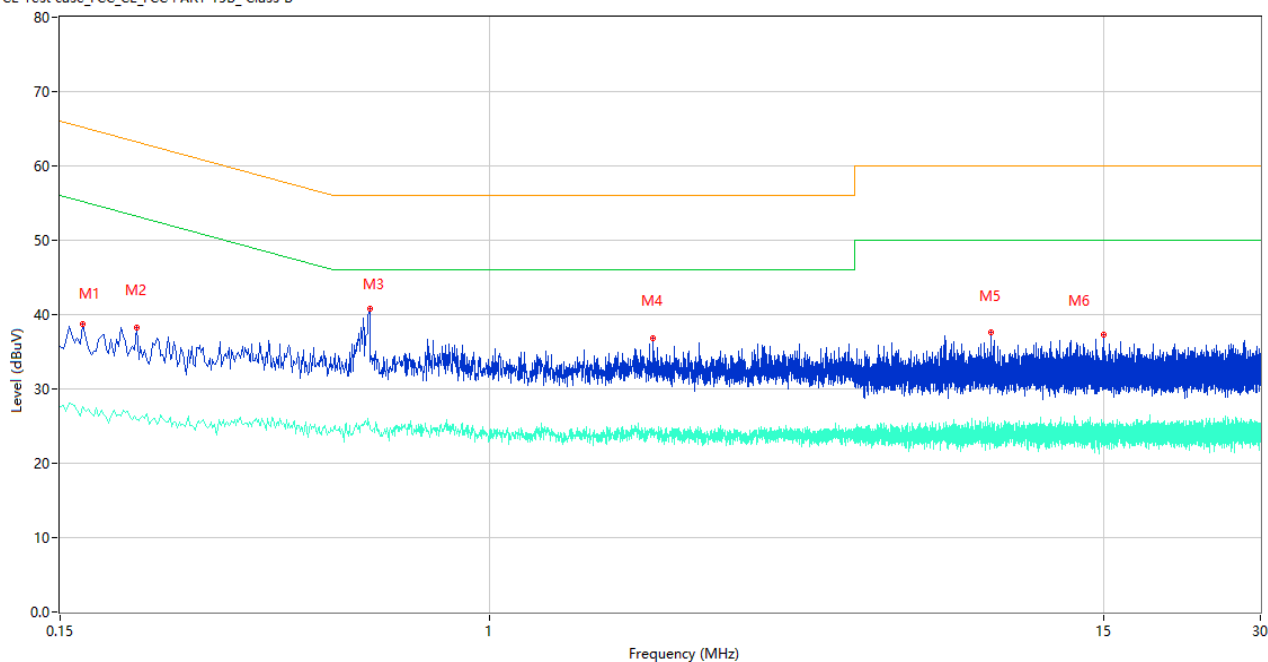
Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

Charging Case 1

PHASE L

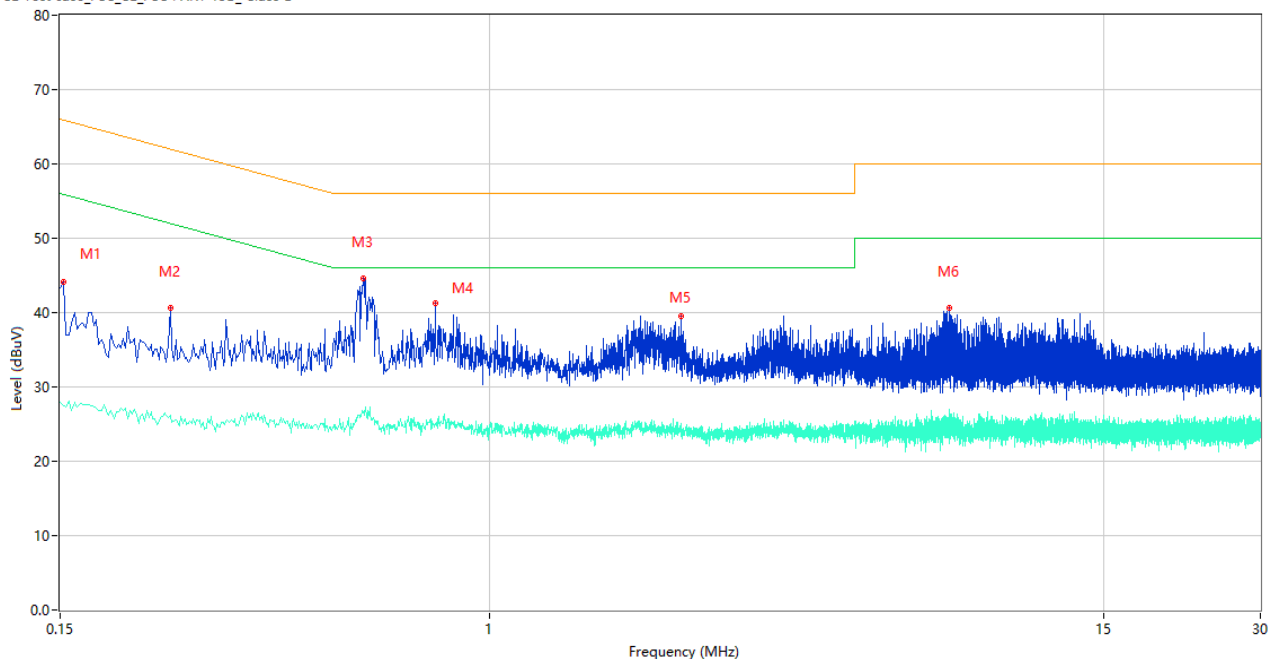
CE Test case_FCC_CE_FCC PART 15B_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.166	38.66	10.08	65.16	-26.50	Peak	L	Pass
1**	0.166	27.56	10.08	55.16	-27.60	AV	L	Pass
2	0.210	38.30	10.05	63.21	-24.91	Peak	L	Pass
2**	0.210	25.93	10.05	53.21	-27.28	AV	L	Pass
3	0.588	40.79	10.31	56.00	-15.21	Peak	L	Pass
3**	0.588	24.96	10.31	46.00	-21.04	AV	L	Pass
4	2.058	36.86	10.46	56.00	-19.14	Peak	L	Pass
4**	2.058	24.05	10.46	46.00	-21.95	AV	L	Pass
5	9.124	37.55	10.24	60.00	-22.45	Peak	L	Pass
5**	9.124	23.72	10.24	50.00	-26.28	AV	L	Pass
6	14.988	37.23	10.13	60.00	-22.77	Peak	L	Pass
6**	14.988	22.99	10.13	50.00	-27.01	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B

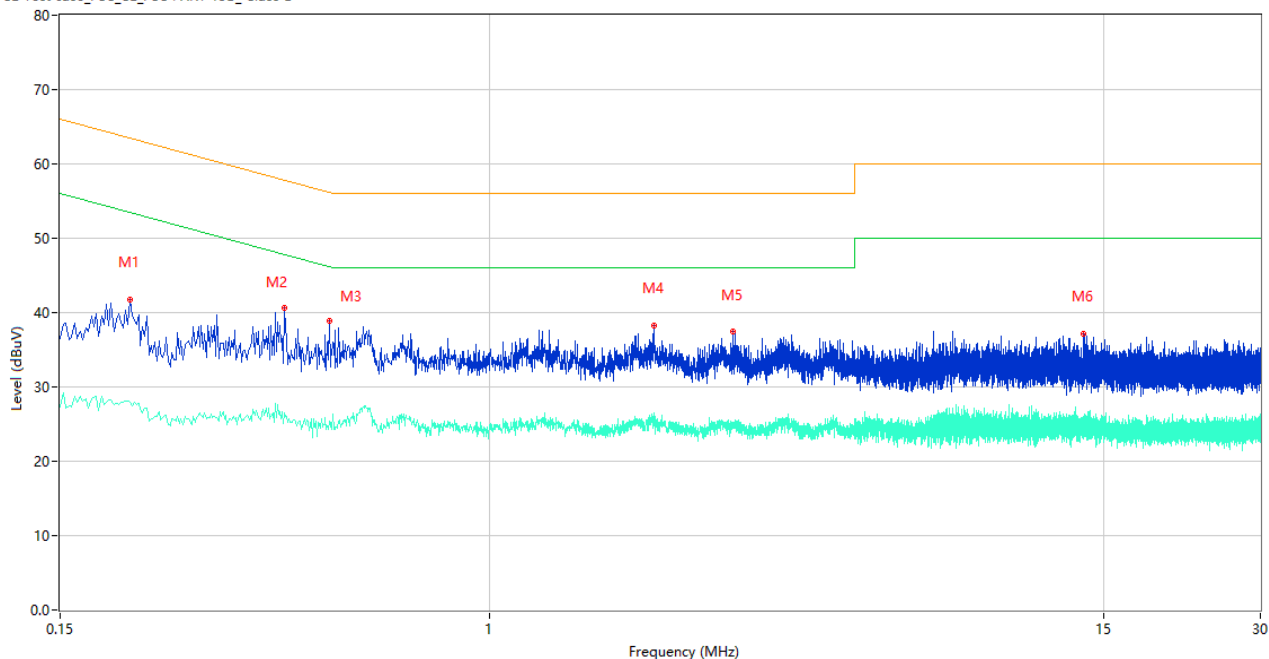


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	44.07	10.09	65.89	-21.82	Peak	N	Pass
1**	0.152	27.39	10.09	55.89	-28.50	AV	N	Pass
2	0.244	40.62	10.02	61.96	-21.34	Peak	N	Pass
2**	0.244	26.24	10.02	51.96	-25.72	AV	N	Pass
3	0.572	44.59	10.27	56.00	-11.41	Peak	N	Pass
3**	0.572	26.46	10.27	46.00	-19.54	AV	N	Pass
4	0.786	41.22	10.58	56.00	-14.78	Peak	N	Pass
4**	0.786	25.00	10.58	46.00	-21.00	AV	N	Pass
5	2.322	39.55	10.25	56.00	-16.45	Peak	N	Pass
5**	2.322	24.96	10.25	46.00	-21.04	AV	N	Pass
6	7.616	40.59	10.17	60.00	-19.41	Peak	N	Pass
6**	7.616	27.03	10.17	50.00	-22.97	AV	N	Pass

Charging Case 2

PHASE L

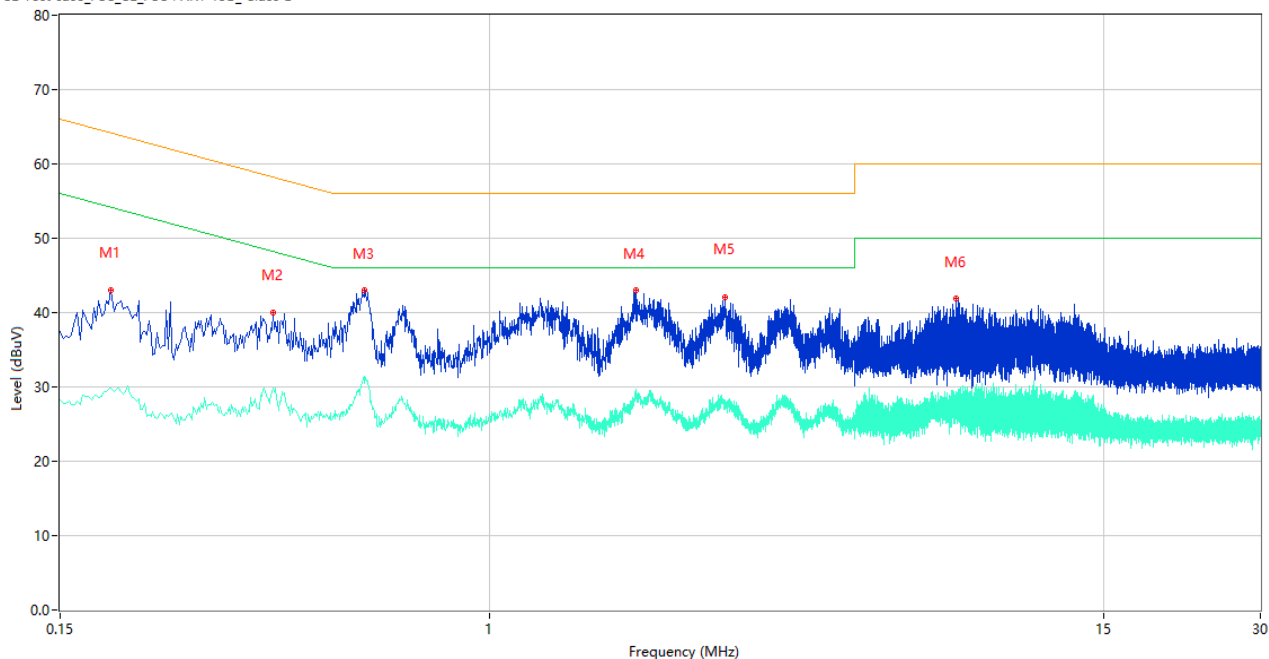
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.204	41.79	10.05	63.45	-21.66	Peak	L	Pass
1**	0.204	27.98	10.05	53.45	-25.47	AV	L	Pass
2	0.404	40.56	10.72	57.77	-17.21	Peak	L	Pass
2**	0.404	26.58	10.72	47.77	-21.19	AV	L	Pass
3	0.492	38.83	10.18	56.13	-17.30	Peak	L	Pass
3**	0.492	25.41	10.18	46.13	-20.72	AV	L	Pass
4	2.064	38.28	10.39	56.00	-17.72	Peak	L	Pass
4**	2.064	25.84	10.39	46.00	-20.16	AV	L	Pass
5	2.920	37.42	10.15	56.00	-18.58	Peak	L	Pass
5**	2.920	24.98	10.15	46.00	-21.02	AV	L	Pass
6	13.748	37.13	10.24	60.00	-22.87	Peak	L	Pass
6**	13.748	23.98	10.24	50.00	-26.02	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.188	43.06	10.06	64.12	-21.06	Peak	N	Pass
1**	0.188	29.87	10.06	54.12	-24.25	AV	N	Pass
2	0.384	40.08	10.83	58.19	-18.11	Peak	N	Pass
2**	0.384	29.87	10.83	48.19	-18.32	AV	N	Pass
3	0.576	42.97	10.28	56.00	-13.03	Peak	N	Pass
3**	0.576	30.55	10.28	46.00	-15.45	AV	N	Pass
4	1.906	42.95	10.75	56.00	-13.05	Peak	N	Pass
4**	1.906	29.69	10.75	46.00	-16.31	AV	N	Pass
5	2.826	42.12	10.09	56.00	-13.88	Peak	N	Pass
5**	2.826	26.93	10.09	46.00	-19.07	AV	N	Pass
6	7.820	41.85	10.17	60.00	-18.15	Peak	N	Pass
6**	7.820	29.40	10.17	50.00	-20.60	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.

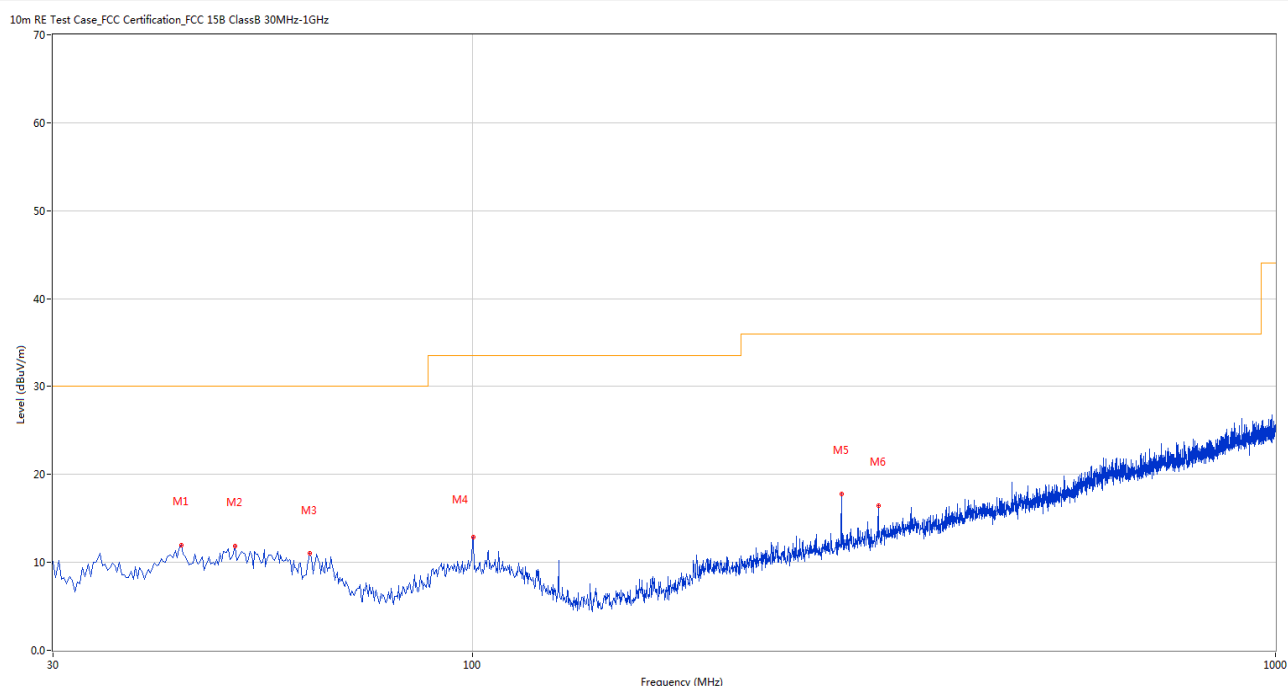
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

Charging Case 1

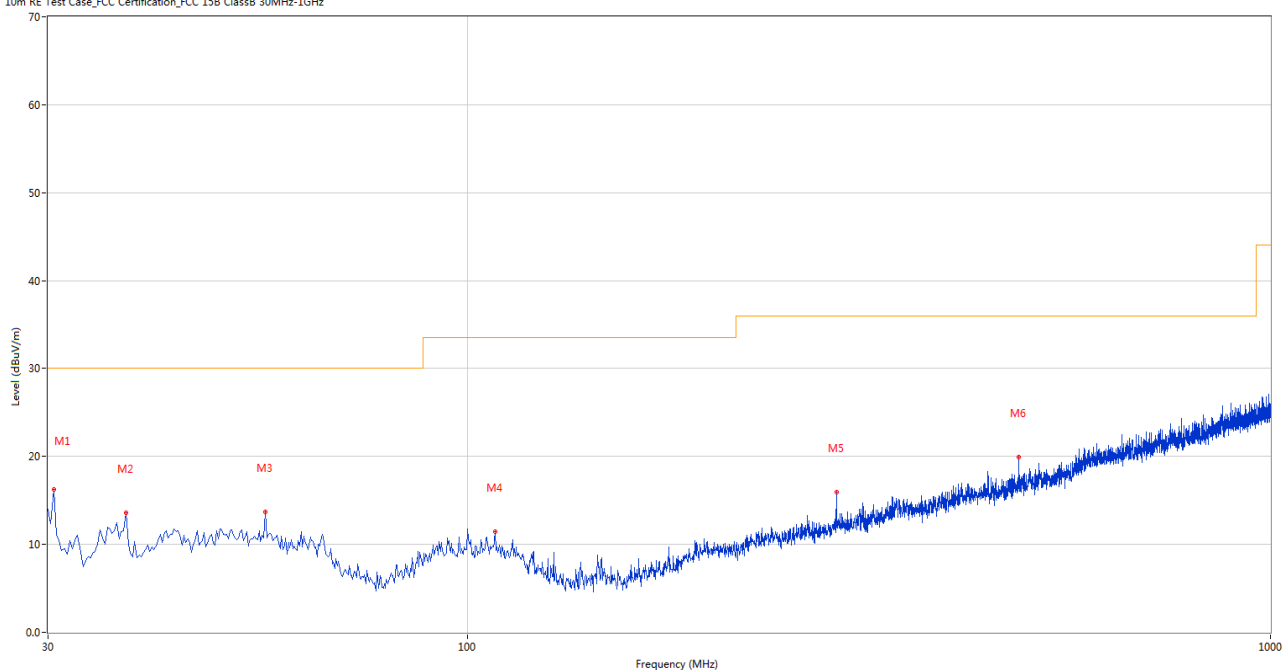
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.334	11.97	-26.26	30.0	-18.03	Peak	245.00	200	Horizontal	Pass
2	50.607	11.87	-26.19	30.0	-18.13	Peak	75.00	100	Horizontal	Pass
3	62.729	10.99	-28.06	30.0	-19.01	Peak	192.00	100	Horizontal	Pass
4	100.065	12.84	-27.96	33.5	-20.66	Peak	360.00	200	Horizontal	Pass
5	287.956	17.75	-25.19	36.0	-18.25	Peak	248.00	200	Horizontal	Pass
6	319.958	16.43	-24.53	36.0	-19.57	Peak	248.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.485	16.24	-29.45	30.0	-13.76	Peak	44.00	100	Vertical	Pass
2	37.516	13.61	-27.91	30.0	-16.39	Peak	326.00	100	Vertical	Pass
3	55.941	13.70	-26.78	30.0	-16.30	Peak	217.00	200	Vertical	Pass
4	108.308	11.44	-27.81	33.5	-22.06	Peak	195.00	100	Vertical	Pass
5	287.956	15.91	-25.19	36.0	-20.09	Peak	106.00	100	Vertical	Pass
6	486.271	19.95	-20.69	36.0	-16.05	Peak	211.00	200	Vertical	Pass

Charging Case 2

30 MHz to 1 GHz, ANT H

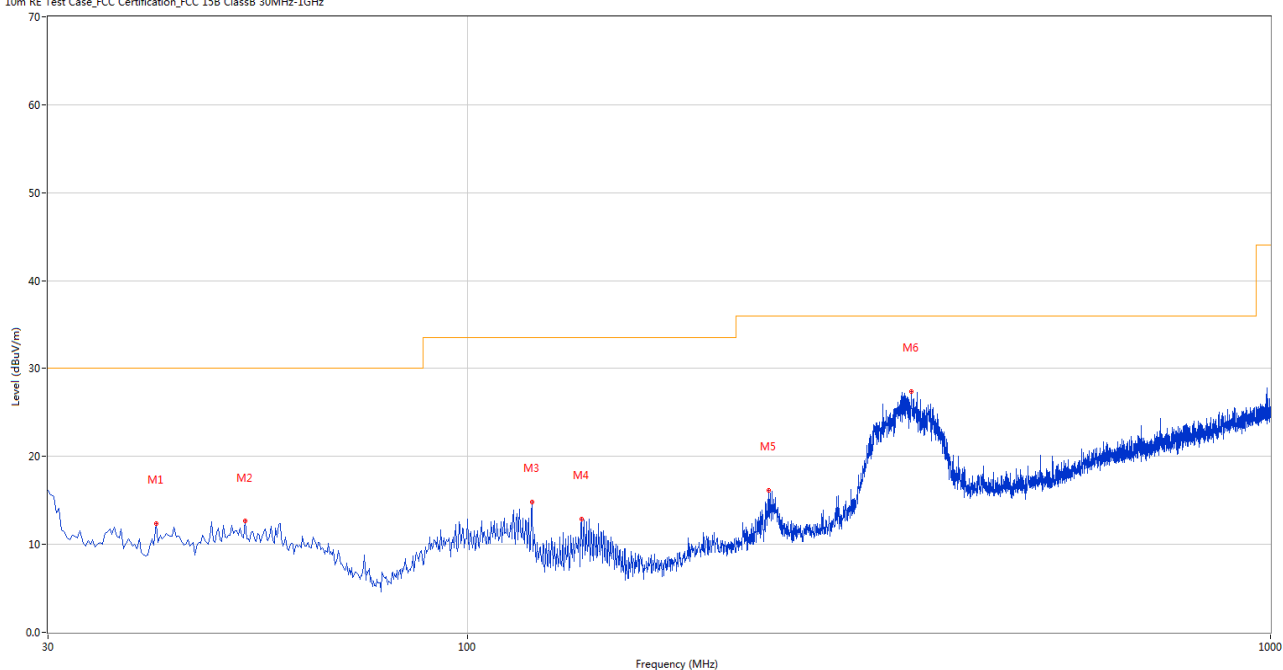
10m RE Test Case_FCC Certification_FCC 15B ClassB 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.092	12.00	-26.21	30.0	-18.00	Peak	72.00	100	Horizontal	Pass
2	56.911	13.62	-27.06	30.0	-16.38	Peak	109.00	200	Horizontal	Pass
3	100.065	12.28	-27.96	33.5	-21.22	Peak	351.00	100	Horizontal	Pass
4	287.956	18.38	-25.19	36.0	-17.62	Peak	260.00	200	Horizontal	Pass
5	353.414	21.94	-23.43	36.0	-14.06	Peak	245.00	200	Horizontal	Pass
6	436.328	19.33	-21.54	36.0	-16.67	Peak	360.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



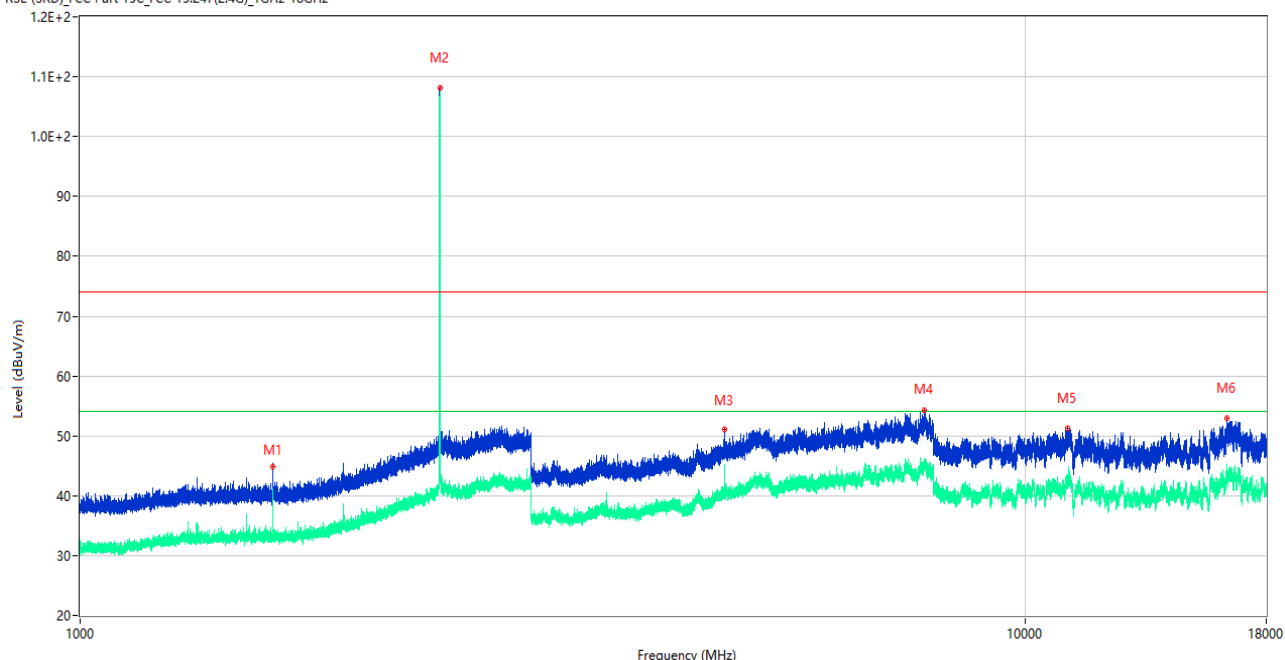
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.910	12.36	-27.06	30.0	-17.64	Peak	109.00	200	Vertical	Pass
2	52.789	12.62	-26.33	30.0	-17.38	Peak	38.00	100	Vertical	Pass
3	120.187	14.82	-29.78	33.5	-18.68	Peak	259.00	100	Vertical	Pass
4	138.613	12.91	-31.58	33.5	-20.59	Peak	218.00	100	Vertical	Pass
5	237.286	16.15	-26.62	36.0	-19.85	Peak	54.00	100	Vertical	Pass
6	356.566	27.39	-23.27	36.0	-8.61	Peak	35.00	100	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.

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

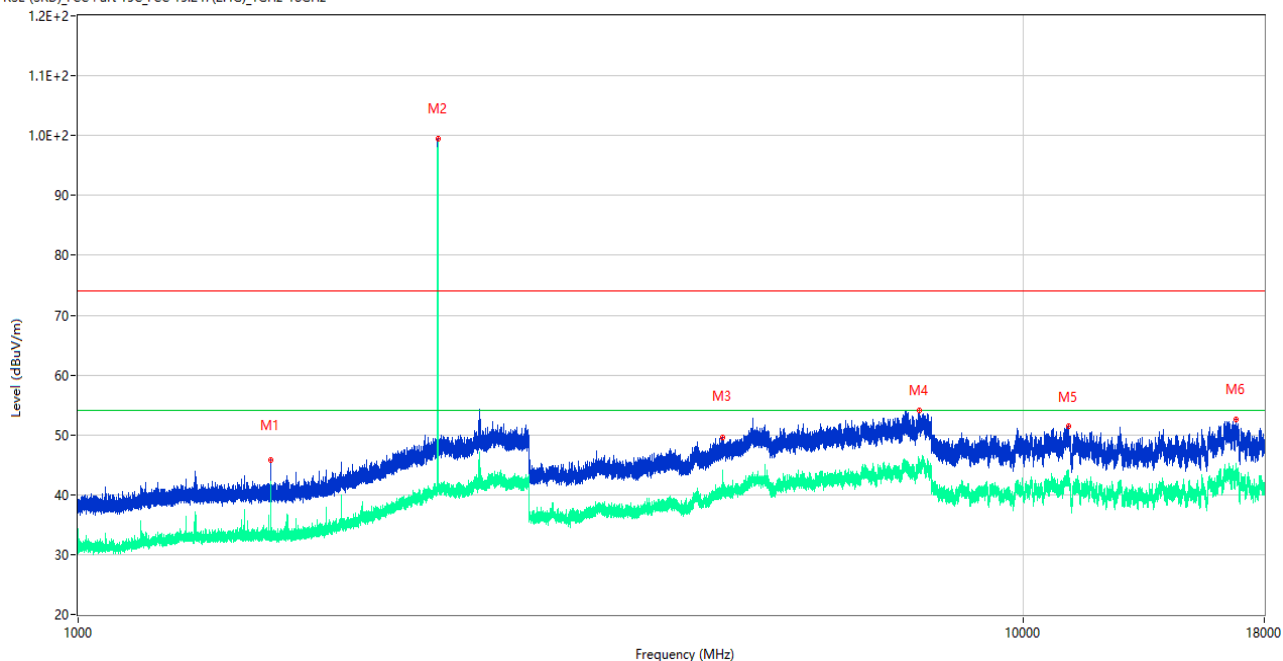
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	44.91	-16.85	74.0	-29.09	Peak	211.00	200	Horizontal	Pass
1**	1599.800	40.07	-16.85	54.0	-13.93	AV	211.00	200	Horizontal	Pass
2	2402.200	108.14	-10.10	--	--	Peak	261.00	100	Horizontal	N/A
2**	2402.200	107.90	-10.10	--	--	AV	261.00	100	Horizontal	N/A
3	4804.500	51.02	-2.72	74.0	-22.98	Peak	207.00	200	Horizontal	Pass
3**	4804.500	43.54	-2.72	54.0	-10.46	AV	207.00	200	Horizontal	Pass
4	7820.750	54.31	2.91	74.0	-19.69	Peak	83.00	300	Horizontal	Pass
4**	7820.750	45.33	2.91	54.0	-8.67	AV	83.00	300	Horizontal	Pass
5	11098.662	51.32	-1.03	74.0	-22.68	Peak	304.00	100	Horizontal	Pass
5**	11098.662	41.90	-1.03	54.0	-12.10	AV	304.00	100	Horizontal	Pass
6	16342.313	53.03	0.63	74.0	-20.97	Peak	351.00	300	Horizontal	Pass
6**	16342.313	44.31	0.63	54.0	-9.69	AV	351.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

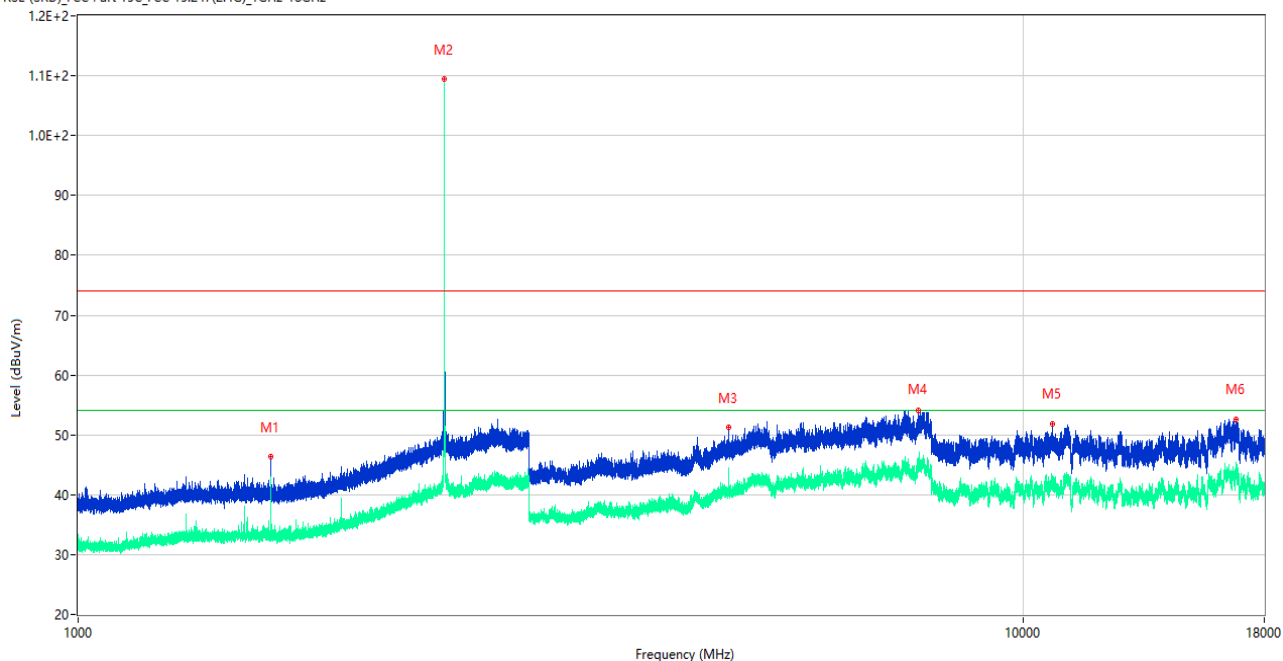
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	45.79	-16.85	74.0	-28.21	Peak	176.00	400	Vertical	Pass
1**	1599.800	41.35	-16.85	54.0	-12.65	AV	176.00	400	Vertical	Pass
2	2401.900	99.53	-10.12	--	--	Peak	41.00	200	Vertical	N/A
2**	2401.900	99.19	-10.12	--	--	AV	41.00	200	Vertical	N/A
3	4803.750	49.48	-2.78	74.0	-24.52	Peak	241.00	100	Vertical	Pass
3**	4803.750	43.05	-2.78	54.0	-10.95	AV	241.00	100	Vertical	Pass
4	7761.000	54.10	1.68	74.0	-19.90	Peak	42.00	400	Vertical	Pass
4**	7761.000	44.96	1.68	54.0	-9.04	AV	42.00	400	Vertical	Pass
5	11167.776	51.43	-1.25	74.0	-22.57	Peak	113.00	400	Vertical	Pass
5**	11167.776	42.82	-1.25	54.0	-11.18	AV	113.00	400	Vertical	Pass
6	16793.026	52.60	0.91	74.0	-21.40	Peak	212.00	100	Vertical	Pass
6**	16793.026	43.23	0.91	54.0	-10.77	AV	212.00	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

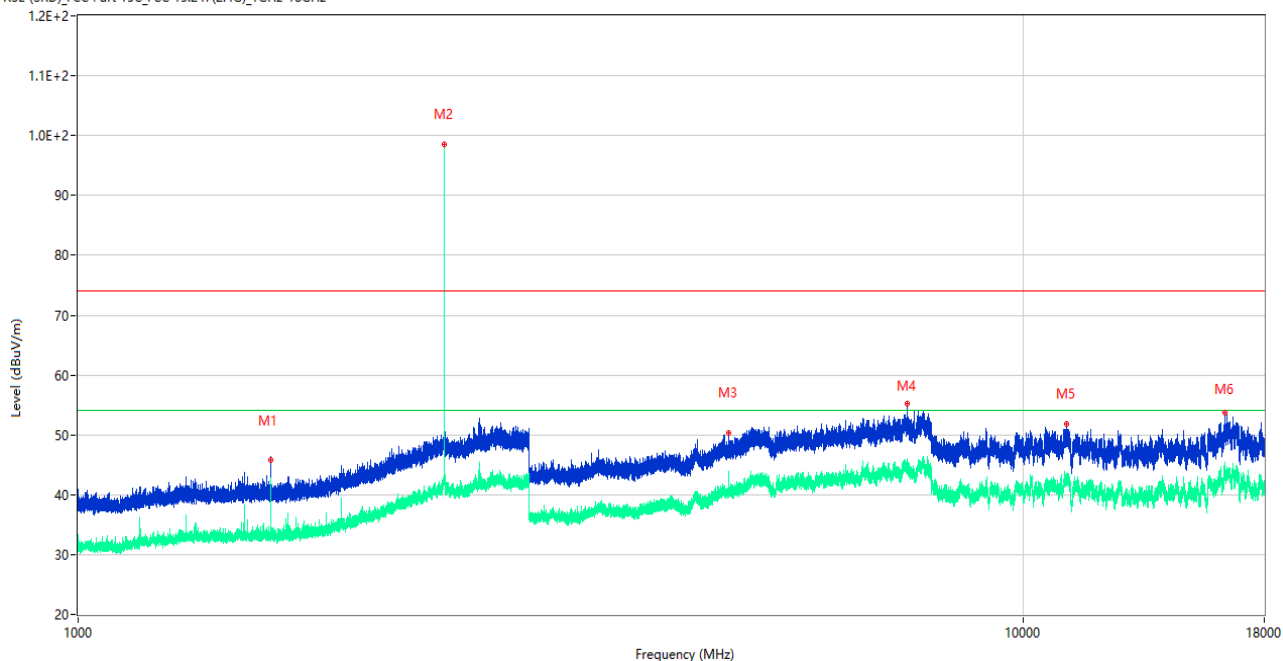
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	46.32	-16.85	74.0	-27.68	Peak	335.00	200	Horizontal	Pass
1**	1599.900	42.66	-16.85	54.0	-11.34	AV	335.00	200	Horizontal	Pass
2	2441.100	109.39	-9.40	--	--	Peak	257.00	150	Horizontal	N/A
2**	2441.100	109.18	-9.40	--	--	AV	257.00	150	Horizontal	N/A
3	4881.750	51.18	-2.32	74.0	-22.82	Peak	222.00	200	Horizontal	Pass
3**	4881.750	43.47	-2.32	54.0	-10.53	AV	222.00	200	Horizontal	Pass
4	7751.000	54.11	1.47	74.0	-19.89	Peak	135.00	400	Horizontal	Pass
4**	7751.000	44.71	1.47	54.0	-9.29	AV	135.00	400	Horizontal	Pass
5	10730.063	51.84	-1.96	74.0	-22.16	Peak	74.00	300	Horizontal	Pass
5**	10730.063	41.52	-1.96	54.0	-12.48	AV	74.00	300	Horizontal	Pass
6	16816.650	52.66	1.03	74.0	-21.34	Peak	163.00	200	Horizontal	Pass
6**	16816.650	43.47	1.03	54.0	-10.53	AV	163.00	200	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

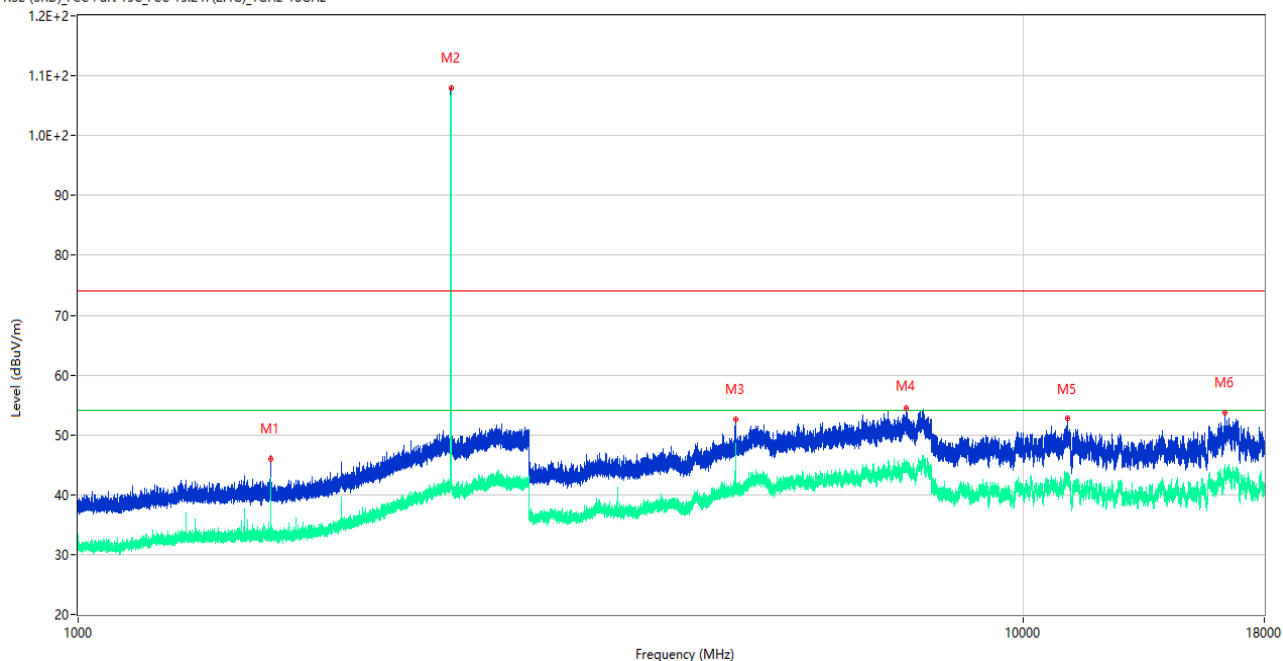
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	45.82	-16.85	74.0	-28.18	Peak	286.00	200	Vertical	Pass
1**	1599.900	42.84	-16.85	54.0	-11.16	AV	286.00	200	Vertical	Pass
2	2441.100	98.59	-9.40	--	--	Peak	252.00	100	Vertical	N/A
2**	2441.100	98.41	-9.40	--	--	AV	252.00	100	Vertical	N/A
3	4881.750	50.24	-2.32	74.0	-23.76	Peak	237.00	200	Vertical	Pass
3**	4881.750	43.16	-2.32	54.0	-10.84	AV	237.00	200	Vertical	Pass
4	7544.750	55.27	1.83	74.0	-18.73	Peak	210.00	300	Vertical	Pass
4**	7544.750	46.05	1.83	54.0	-7.95	AV	210.00	300	Vertical	Pass
5	11130.488	51.87	-0.97	74.0	-22.13	Peak	359.00	200	Vertical	Pass
5**	11130.488	42.97	-0.97	54.0	-11.03	AV	359.00	200	Vertical	Pass
6	16349.138	53.73	0.82	74.0	-20.27	Peak	360.00	400	Vertical	Pass
6**	16349.138	43.97	0.82	54.0	-10.03	AV	360.00	400	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

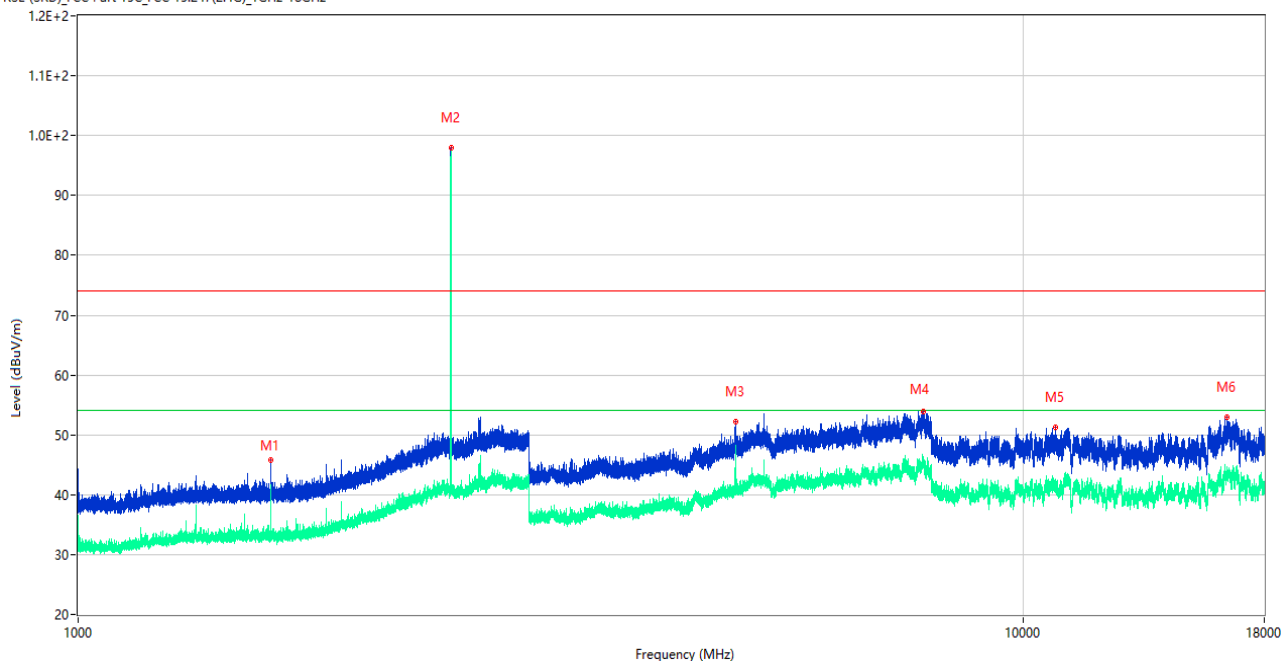
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	46.04	-16.85	74.0	-27.96	Peak	57.00	400	Horizontal	Pass
1**	1599.900	42.28	-16.85	54.0	-11.72	AV	57.00	400	Horizontal	Pass
2	2479.800	107.98	-10.55	--	--	Peak	259.00	100	Horizontal	N/A
2**	2479.800	106.97	-10.55	--	--	AV	259.00	100	Horizontal	N/A
3	4960.500	52.63	-2.64	74.0	-21.37	Peak	260.00	150	Horizontal	Pass
3**	4960.500	48.36	-2.64	54.0	-5.64	AV	260.00	150	Horizontal	Pass
4	7516.500	54.53	2.04	74.0	-19.47	Peak	120.00	200	Horizontal	Pass
4**	7516.500	44.29	2.04	54.0	-9.71	AV	120.00	200	Horizontal	Pass
5	11135.237	52.75	-0.97	74.0	-21.25	Peak	58.00	200	Horizontal	Pass
5**	11135.237	41.84	-0.97	54.0	-12.16	AV	58.00	200	Horizontal	Pass
6	16341.000	53.77	0.59	74.0	-20.23	Peak	61.00	300	Horizontal	Pass
6**	16341.000	43.14	0.59	54.0	-10.86	AV	61.00	300	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

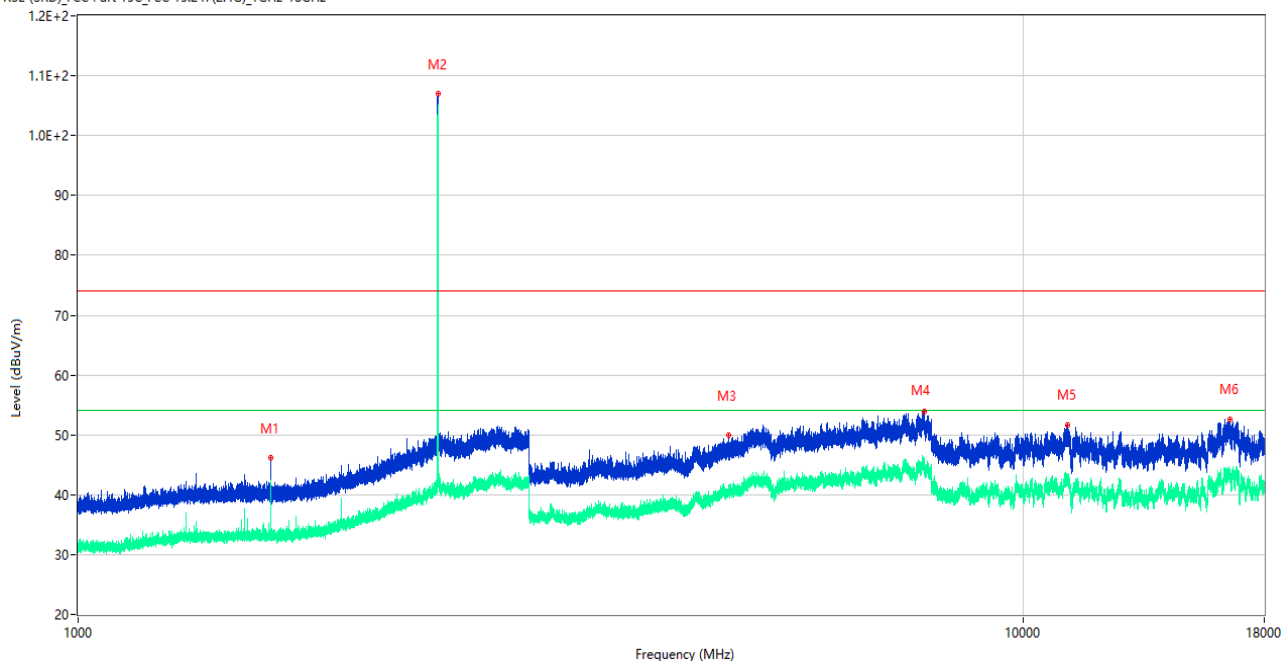
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.100	45.86	-16.86	74.0	-28.14	Peak	201.00	150	Vertical	Pass
1**	1600.100	41.46	-16.86	54.0	-12.54	AV	201.00	150	Vertical	Pass
2	2479.800	97.97	-10.55	--	--	Peak	261.00	200	Vertical	N/A
2**	2479.800	96.45	-10.55	--	--	AV	261.00	200	Vertical	N/A
3	4960.250	52.26	-2.64	74.0	-21.74	Peak	74.00	200	Vertical	Pass
3**	4960.250	48.22	-2.64	54.0	-5.78	AV	74.00	200	Vertical	Pass
4	7851.500	53.97	2.37	74.0	-20.03	Peak	360.00	100	Vertical	Pass
4**	7851.500	45.61	2.37	54.0	-8.39	AV	360.00	100	Vertical	Pass
5	10819.363	51.36	-2.56	74.0	-22.64	Peak	137.00	300	Vertical	Pass
5**	10819.363	41.28	-2.56	54.0	-12.72	AV	137.00	300	Vertical	Pass
6	16416.074	52.97	0.02	74.0	-21.03	Peak	207.00	100	Vertical	Pass
6**	16416.074	43.15	0.02	54.0	-10.85	AV	207.00	100	Vertical	Pass

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

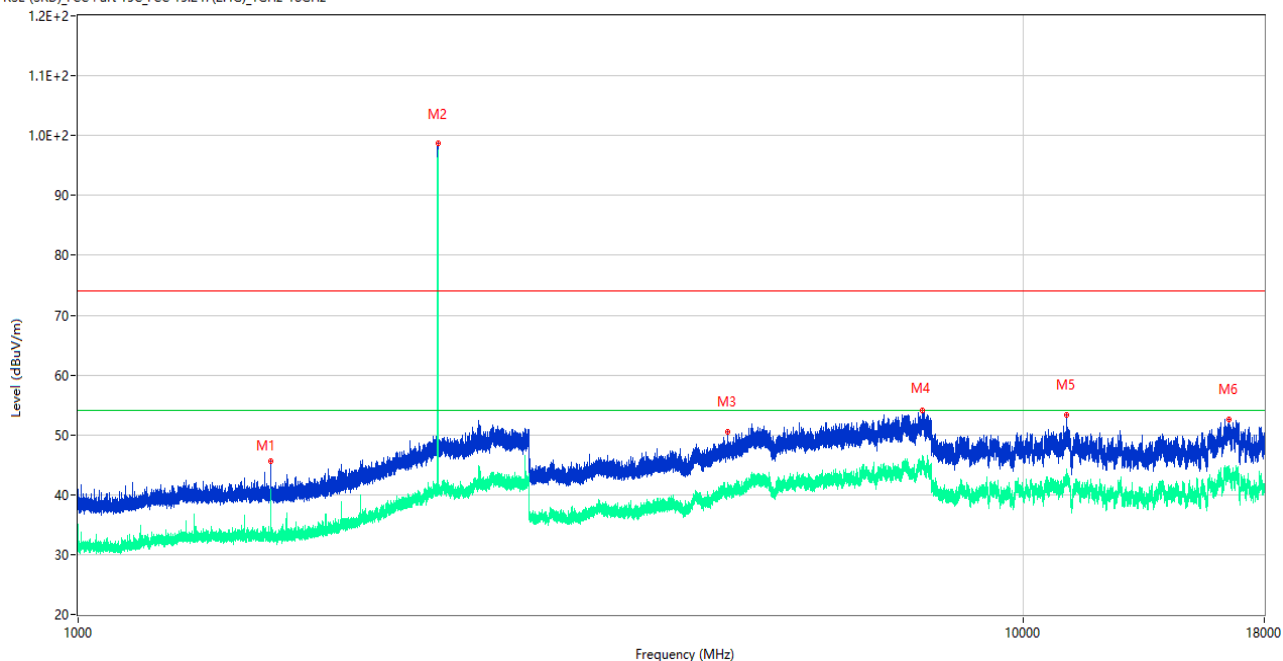
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	46.16	-16.85	74.0	-27.84	Peak	132.00	400	Horizontal	Pass
1**	1599.900	42.03	-16.85	54.0	-11.97	AV	132.00	400	Horizontal	Pass
2	2401.900	106.98	-10.12	--	--	Peak	262.00	200	Horizontal	N/A
2**	2401.900	103.95	-10.12	--	--	AV	262.00	200	Horizontal	N/A
3	4879.000	49.97	-2.39	74.0	-24.03	Peak	208.00	200	Horizontal	Pass
3**	4879.000	40.73	-2.39	54.0	-13.27	AV	208.00	200	Horizontal	Pass
4	7858.750	53.86	2.16	74.0	-20.14	Peak	285.00	200	Horizontal	Pass
4**	7858.750	45.88	2.16	54.0	-8.12	AV	285.00	200	Horizontal	Pass
5	11133.575	51.70	-0.97	74.0	-22.30	Peak	162.00	100	Horizontal	Pass
5**	11133.575	42.35	-0.97	54.0	-11.65	AV	162.00	100	Horizontal	Pass
6	16543.387	52.59	0.07	74.0	-21.41	Peak	201.00	300	Horizontal	Pass
6**	16543.387	43.75	0.07	54.0	-10.25	AV	201.00	300	Horizontal	Pass

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

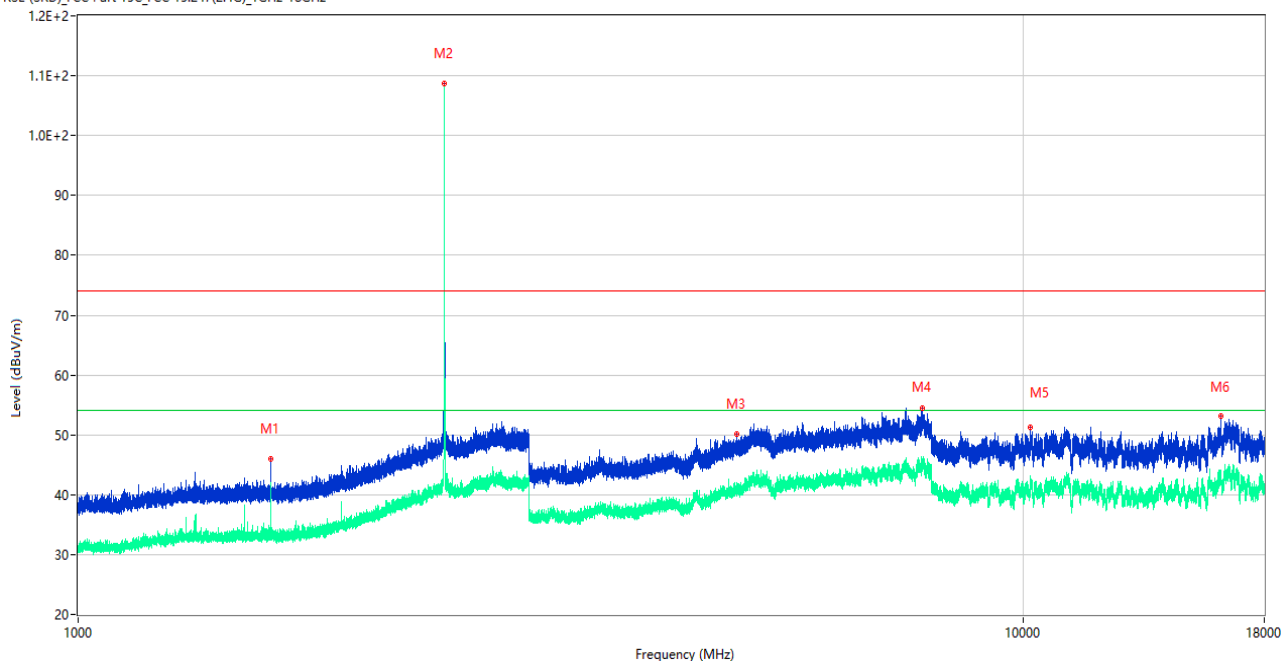
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1600.000	45.57	-16.86	74.0	-28.43	Peak	284.00	150	Vertical	Pass
1**	1600.000	40.64	-16.86	54.0	-13.36	AV	284.00	150	Vertical	Pass
2	2401.900	98.64	-10.12	--	--	Peak	38.00	150	Vertical	N/A
2**	2401.900	96.65	-10.12	--	--	AV	38.00	150	Vertical	N/A
3	4871.000	50.58	-2.61	74.0	-23.42	Peak	268.00	200	Vertical	Pass
3**	4871.000	40.20	-2.61	54.0	-13.80	AV	268.00	200	Vertical	Pass
4	7832.500	54.01	3.35	74.0	-19.99	Peak	76.00	400	Vertical	Pass
4**	7832.500	44.88	3.35	54.0	-9.12	AV	76.00	400	Vertical	Pass
5	11127.875	53.35	-0.97	74.0	-20.65	Peak	313.00	300	Vertical	Pass
5**	11127.875	42.35	-0.97	54.0	-11.65	AV	313.00	300	Vertical	Pass
6	16498.238	52.67	0.36	74.0	-21.33	Peak	302.00	400	Vertical	Pass
6**	16498.238	43.34	0.36	54.0	-10.66	AV	302.00	400	Vertical	Pass

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

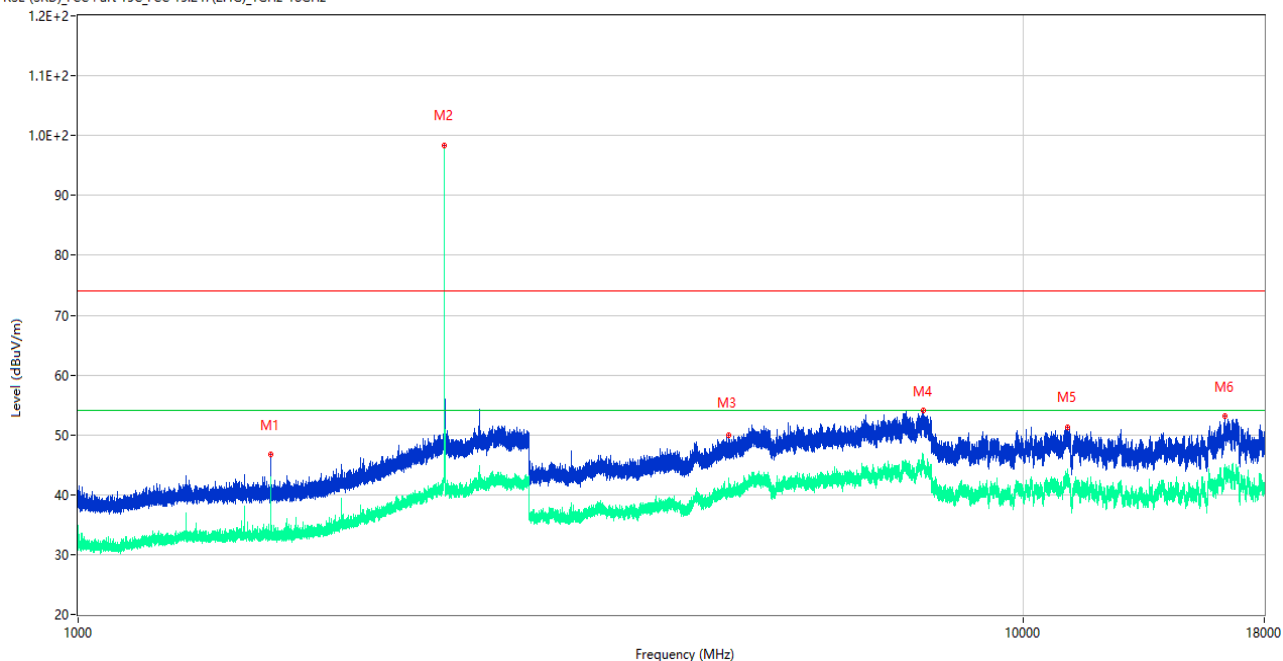
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	46.02	-16.85	74.0	-27.98	Peak	132.00	400	Horizontal	Pass
1**	1599.900	41.92	-16.85	54.0	-12.08	AV	132.00	400	Horizontal	Pass
2	2441.200	108.78	-9.39	--	--	Peak	252.00	200	Horizontal	N/A
2**	2441.200	108.53	-9.39	--	--	AV	252.00	200	Horizontal	N/A
3	4978.250	50.19	-2.55	74.0	-23.81	Peak	314.00	100	Horizontal	Pass
3**	4978.250	40.52	-2.55	54.0	-13.48	AV	314.00	100	Horizontal	Pass
4	7825.000	54.41	3.11	74.0	-19.59	Peak	43.00	400	Horizontal	Pass
4**	7825.000	45.71	3.11	54.0	-8.29	AV	43.00	400	Horizontal	Pass
5	10182.862	51.35	-2.35	74.0	-22.65	Peak	360.00	400	Horizontal	Pass
5**	10182.862	41.83	-2.35	54.0	-12.17	AV	360.00	400	Horizontal	Pass
6	16191.901	53.07	0.20	74.0	-20.93	Peak	40.00	300	Horizontal	Pass
6**	16191.901	44.04	0.20	54.0	-9.96	AV	40.00	300	Horizontal	Pass

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

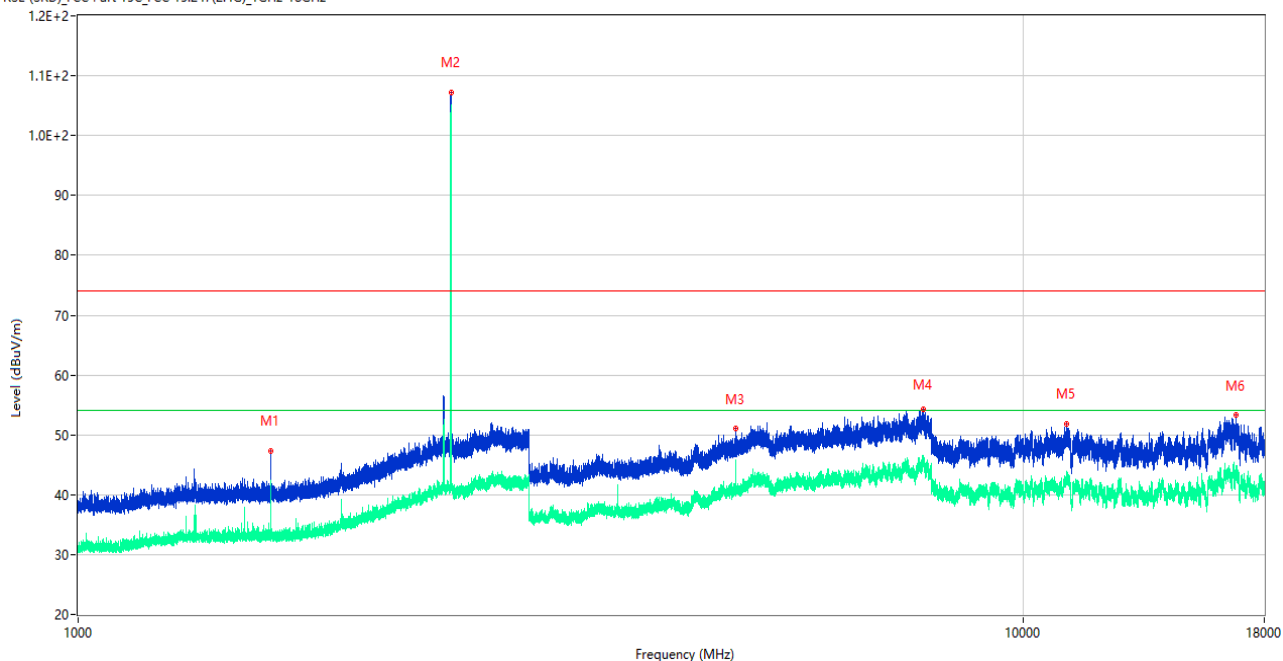
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.800	46.73	-16.85	74.0	-27.27	Peak	16.00	300	Vertical	Pass
1**	1599.800	41.85	-16.85	54.0	-12.15	AV	16.00	300	Vertical	Pass
2	2440.900	98.39	-9.40	--	--	Peak	266.00	100	Vertical	N/A
2**	2440.900	98.07	-9.40	--	--	AV	266.00	100	Vertical	N/A
3	4882.500	49.88	-2.32	74.0	-24.12	Peak	181.00	150	Vertical	Pass
3**	4882.500	40.84	-2.32	54.0	-13.16	AV	181.00	150	Vertical	Pass
4	7841.500	54.16	3.10	74.0	-19.84	Peak	202.00	400	Vertical	Pass
4**	7841.500	45.50	3.10	54.0	-8.50	AV	202.00	400	Vertical	Pass
5	11137.138	51.32	-0.96	74.0	-22.68	Peak	62.00	100	Vertical	Pass
5**	11137.138	42.08	-0.96	54.0	-11.92	AV	62.00	100	Vertical	Pass
6	16355.174	53.07	0.74	74.0	-20.93	Peak	297.00	300	Vertical	Pass
6**	16355.174	44.04	0.74	54.0	-9.96	AV	297.00	300	Vertical	Pass

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

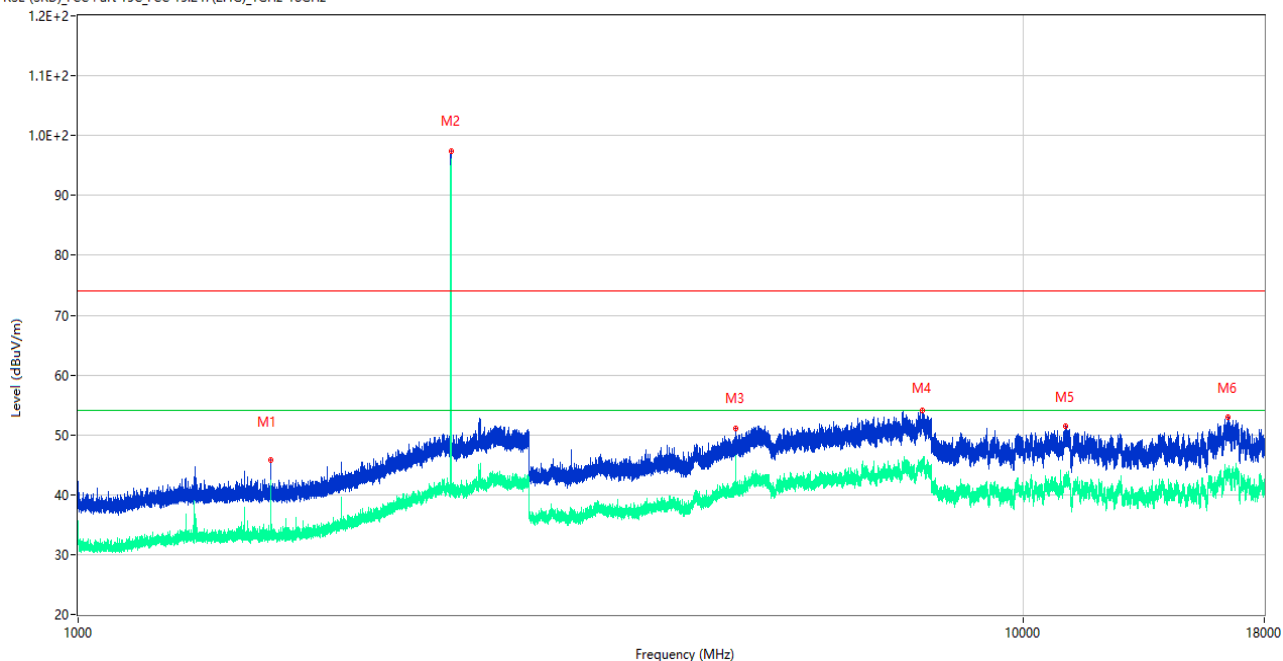
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	47.38	-16.85	74.0	-26.62	Peak	42.00	400	Horizontal	Pass
1**	1599.900	42.30	-16.85	54.0	-11.70	AV	42.00	400	Horizontal	Pass
2	2479.900	107.25	-10.56	--	--	Peak	257.00	100	Horizontal	N/A
2**	2479.900	104.56	-10.56	--	--	AV	257.00	100	Horizontal	N/A
3	4971.250	51.00	-2.61	74.0	-23.00	Peak	18.00	200	Horizontal	Pass
3**	4971.250	40.34	-2.61	54.0	-13.66	AV	18.00	200	Horizontal	Pass
4	7839.000	54.21	3.34	74.0	-19.79	Peak	26.00	400	Horizontal	Pass
4**	7839.000	46.16	3.34	54.0	-7.84	AV	26.00	400	Horizontal	Pass
5	11131.437	51.89	-0.97	74.0	-22.11	Peak	271.00	200	Horizontal	Pass
5**	11131.437	42.55	-0.97	54.0	-11.45	AV	271.00	200	Horizontal	Pass
6	16796.175	53.29	1.02	74.0	-20.71	Peak	35.00	100	Horizontal	Pass
6**	16796.175	43.54	1.02	54.0	-10.46	AV	35.00	100	Horizontal	Pass

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

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.900	45.76	-16.85	74.0	-28.24	Peak	227.00	300	Vertical	Pass
1**	1599.900	41.88	-16.85	54.0	-12.12	AV	227.00	300	Vertical	Pass
2	2479.800	97.40	-10.55	--	--	Peak	264.00	100	Vertical	N/A
2**	2479.800	95.53	-10.55	--	--	AV	264.00	100	Vertical	N/A
3	4960.000	51.08	-2.64	74.0	-22.92	Peak	244.00	200	Vertical	Pass
3**	4960.000	42.10	-2.64	54.0	-11.90	AV	244.00	200	Vertical	Pass
4	7832.750	54.08	3.38	74.0	-19.92	Peak	57.00	100	Vertical	Pass
4**	7832.750	45.00	3.38	54.0	-9.00	AV	57.00	100	Vertical	Pass
5	11100.562	51.44	-1.01	74.0	-22.56	Peak	226.00	400	Vertical	Pass
5**	11100.562	43.16	-1.01	54.0	-10.84	AV	226.00	400	Vertical	Pass
6	16484.850	52.88	0.40	74.0	-21.12	Peak	0.00	400	Vertical	Pass
6**	16484.850	42.81	0.40	54.0	-11.19	AV	0.00	400	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.

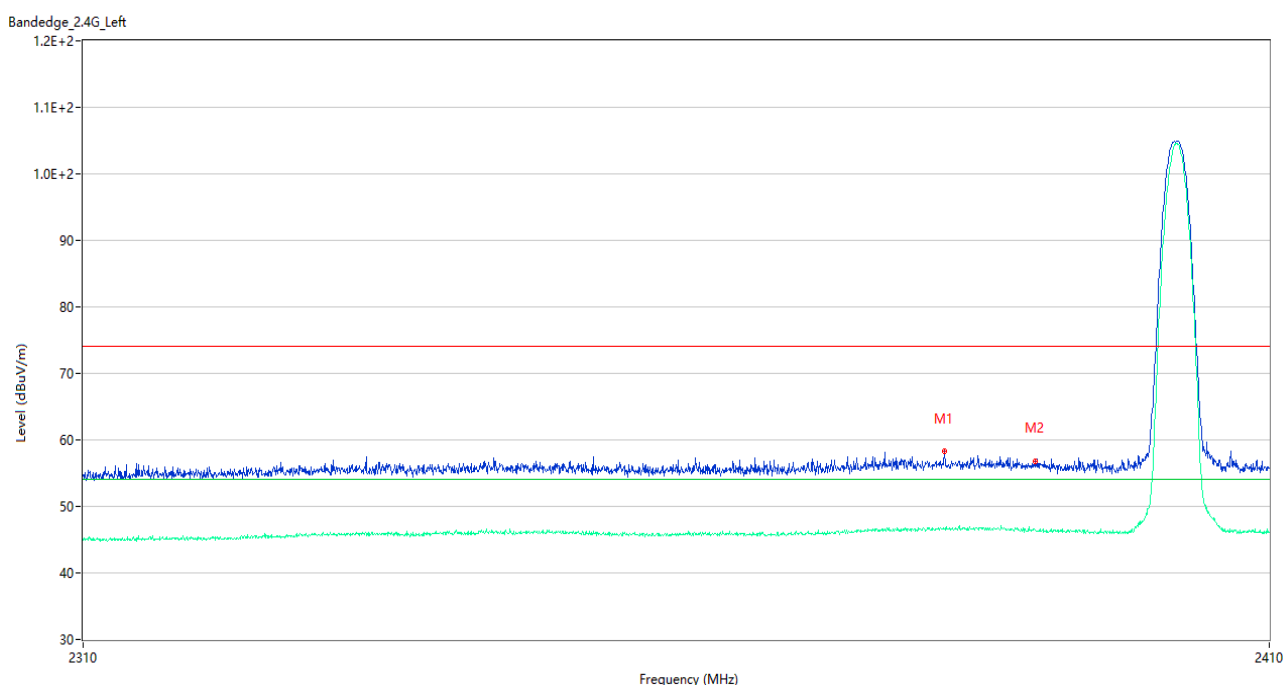
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

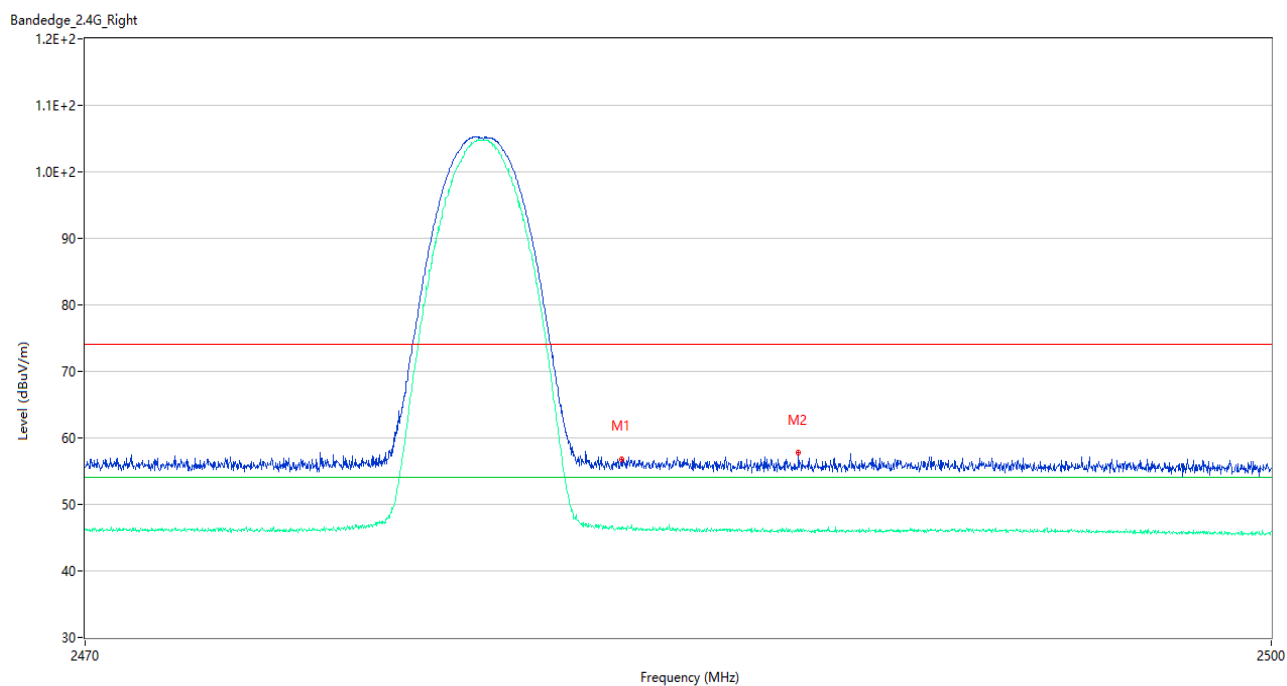
Test Data and Plots

GFSK LOW CHANNEL



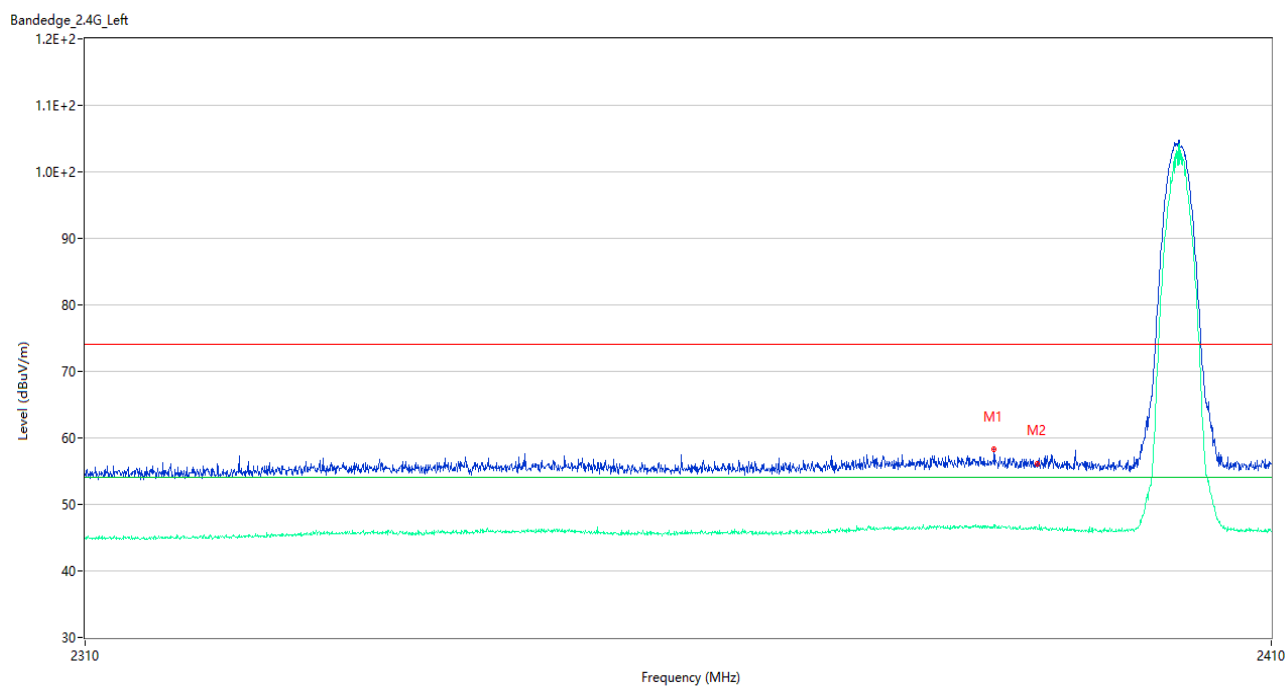
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2382.200	58.29	2.00	74.0	-15.71	Peak	89.00	100	Horizontal	Pass
1**	2382.200	46.59	2.00	54.0	-7.41	AV	89.00	100	Horizontal	Pass
2	2389.950	56.83	1.86	74.0	-17.17	Peak	182.00	100	Horizontal	Pass
2**	2389.950	46.46	1.86	54.0	-7.54	AV	182.00	100	Horizontal	Pass

GFSK HIGH CHANNEL



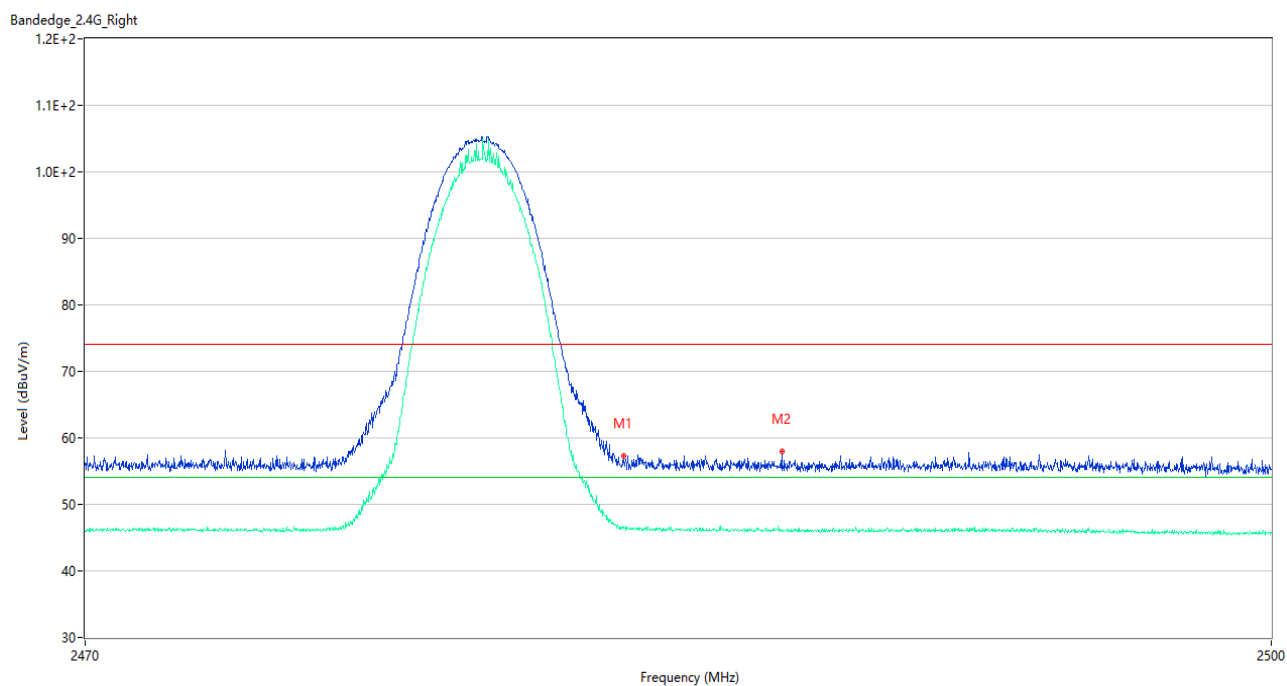
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	56.81	1.77	74.0	-17.19	Peak	145.00	200	Horizontal	Pass
1**	2483.515	46.65	1.77	54.0	-7.35	AV	145.00	200	Horizontal	Pass
2	2488.000	57.77	1.64	74.0	-16.23	Peak	151.00	100	Horizontal	Pass
2**	2488.000	46.23	1.64	54.0	-7.77	AV	151.00	100	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.250	58.23	2.06	74.0	-15.77	Peak	125.00	150	Horizontal	Pass
1**	2386.250	46.59	2.06	54.0	-7.41	AV	125.00	150	Horizontal	Pass
2	2389.950	56.12	1.86	74.0	-17.88	Peak	31.00	150	Horizontal	Pass
2**	2389.950	46.24	1.86	54.0	-7.76	AV	31.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	57.21	1.77	74.0	-16.79	Peak	40.00	150	Horizontal	Pass
1**	2483.575	46.56	1.77	54.0	-7.44	AV	40.00	150	Horizontal	Pass
2	2487.580	57.92	1.65	74.0	-16.08	Peak	296.00	100	Horizontal	Pass
2**	2487.580	46.14	1.65	54.0	-7.86	AV	296.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2291088-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2291088-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2291088-AI.PDF”.

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--END OF REPORT--