

TEST REPORT

Applicant: INFINIX MOBILITY LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Equipment Type: Mobile phone
Model Name: X6837
Brand Name: Infinix
FCC ID: 2AIZN-YY5-X6837
Test Standard: 47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date: Sep. 27, 2023
Test Date: Oct. 10, 2023 - Nov. 06, 2023
Date of Issue: Nov. 17, 2023

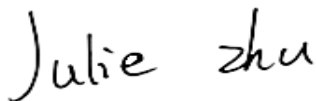
ISSUED BY:

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(Technical Director)



Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 17, 2023</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	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 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	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile phone
Model Name Under Test	X6837
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	168.6mmx76.6mmx8.25mm
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/25/26/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BeiDou, Galileo, FM Receiver, NFC
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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	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> 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	PIFA Antenna	
Antenna	ANT14	1.35 dBi
Gain	ANT12	-4.63 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	Note ²
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	54% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.2°C to +25.0°C
Working Voltage of the EUT	NV (Normal Voltage)	3.87V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2021.05.19	2024.05.08
Test Antenna-Horn	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2022.02.19	2024.08.15
Amplifier	COM-MV	ZT30- 1000M	07210897	2023.09.05	2024.09.04
Amplifier	COM-MV	LSCX_LNA 1-12G-01	7210214	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7- 18G-01	7210209	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2022.12.07	2023.12.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
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%

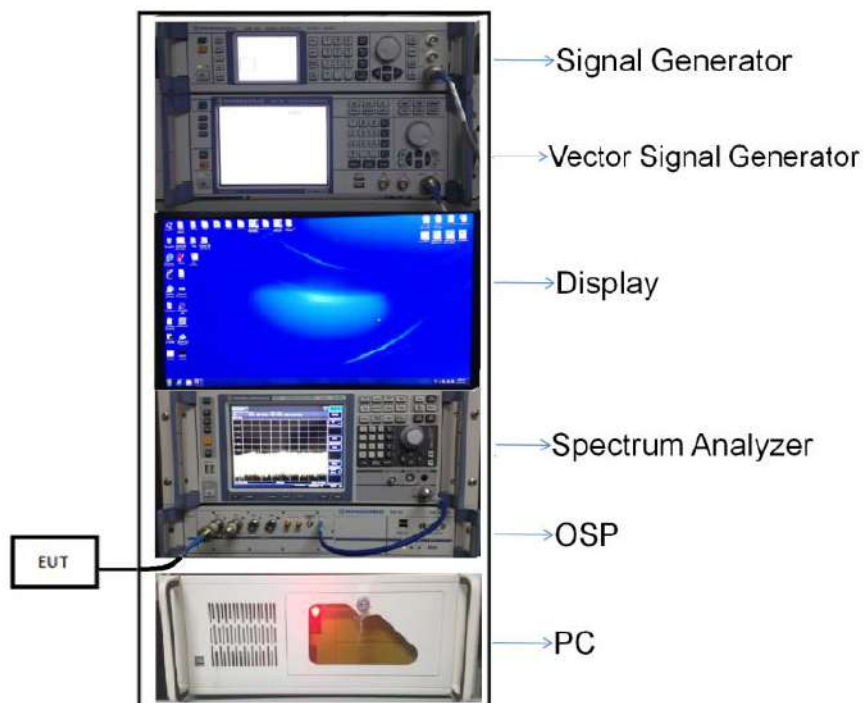
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

$$\text{Conducted value (dBm)} = \text{Measurement value (dBm)} + \text{cable loss (dB)}$$

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

$$\text{Conducted value (dBm)} = 10 \text{ dBm} + 0.5 \text{ dB} = 10.5 \text{ dBm}$$



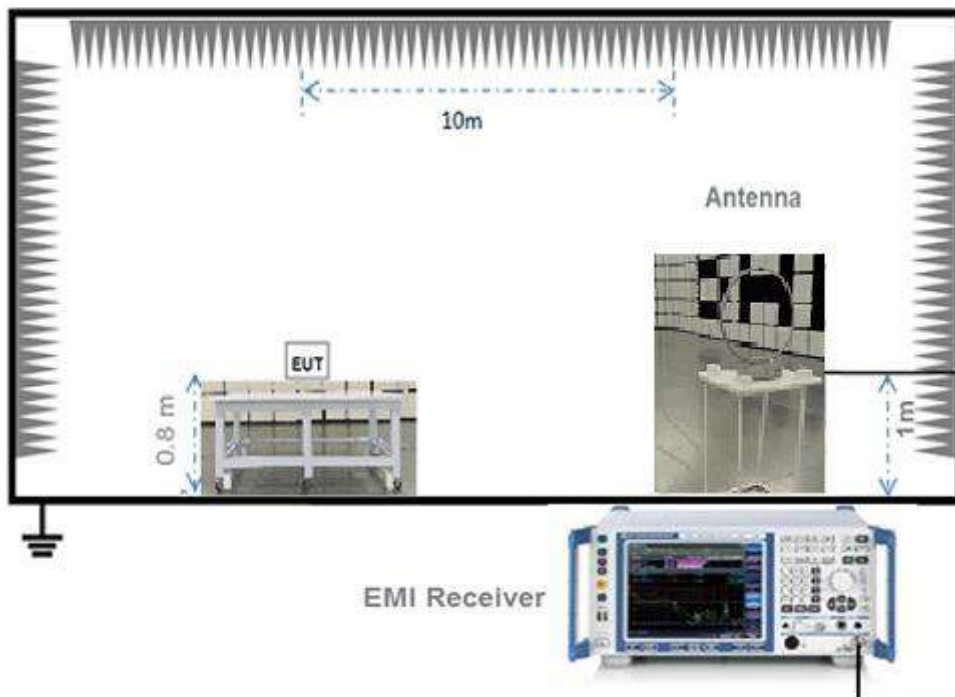
(Diagram 1)

4.5.2 For AC Power Supply Port Test



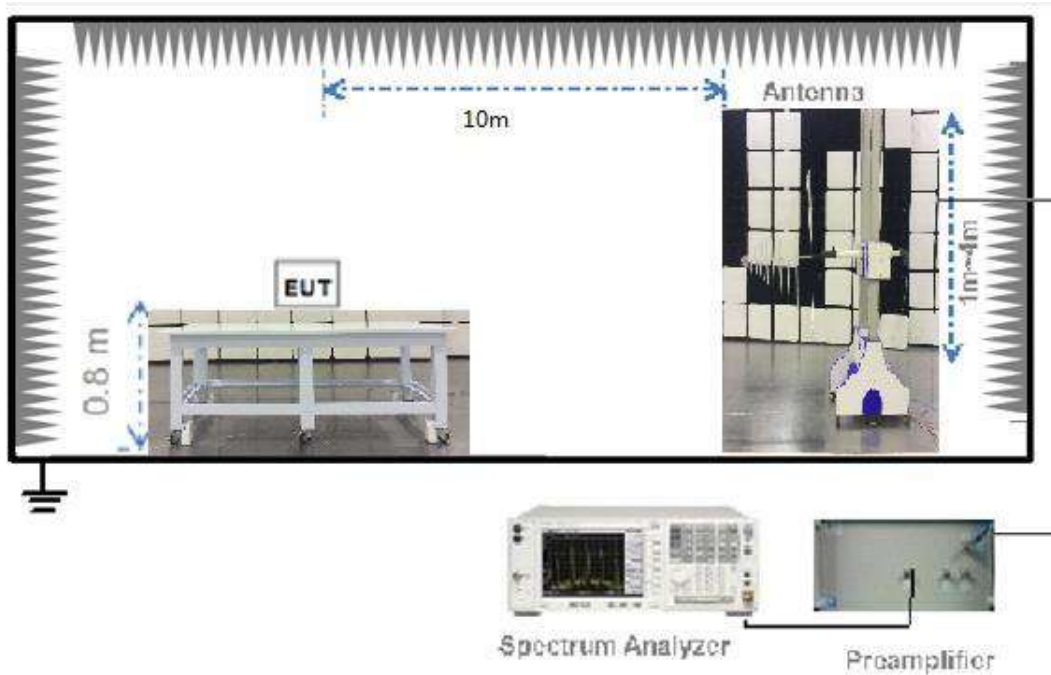
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



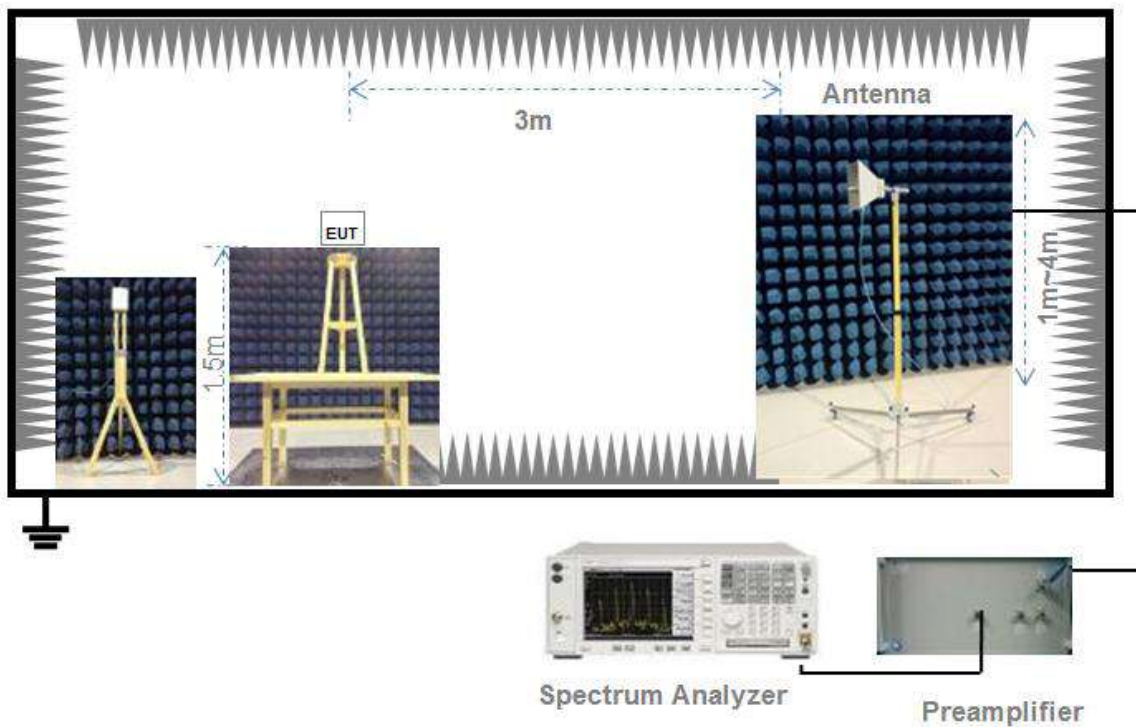
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

Measurement Results Explanation Example

4.5.6 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.

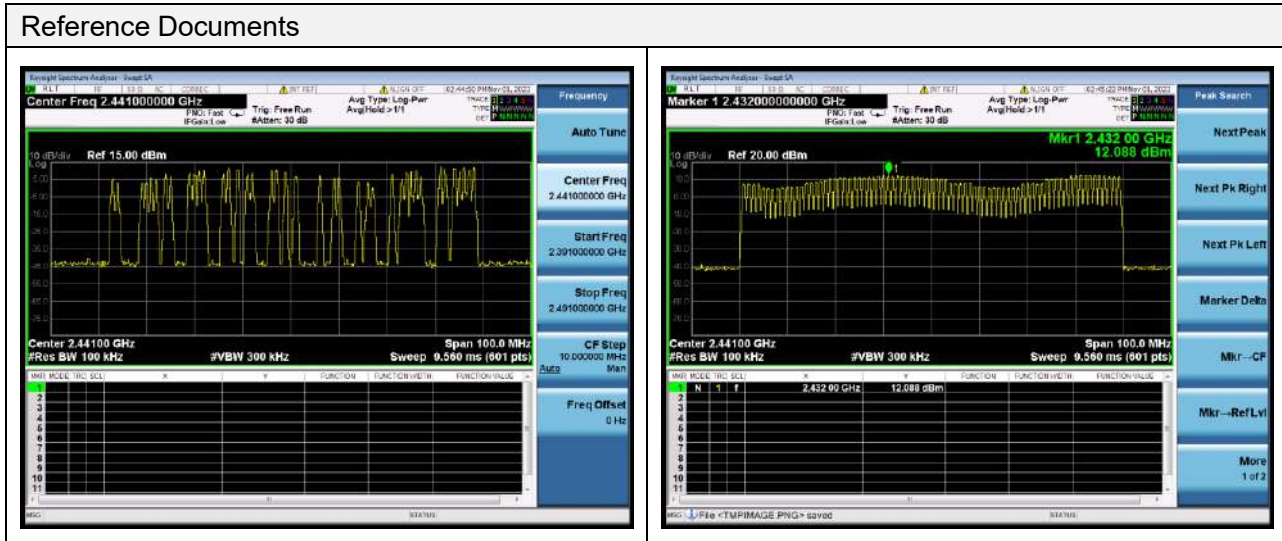
For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts,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

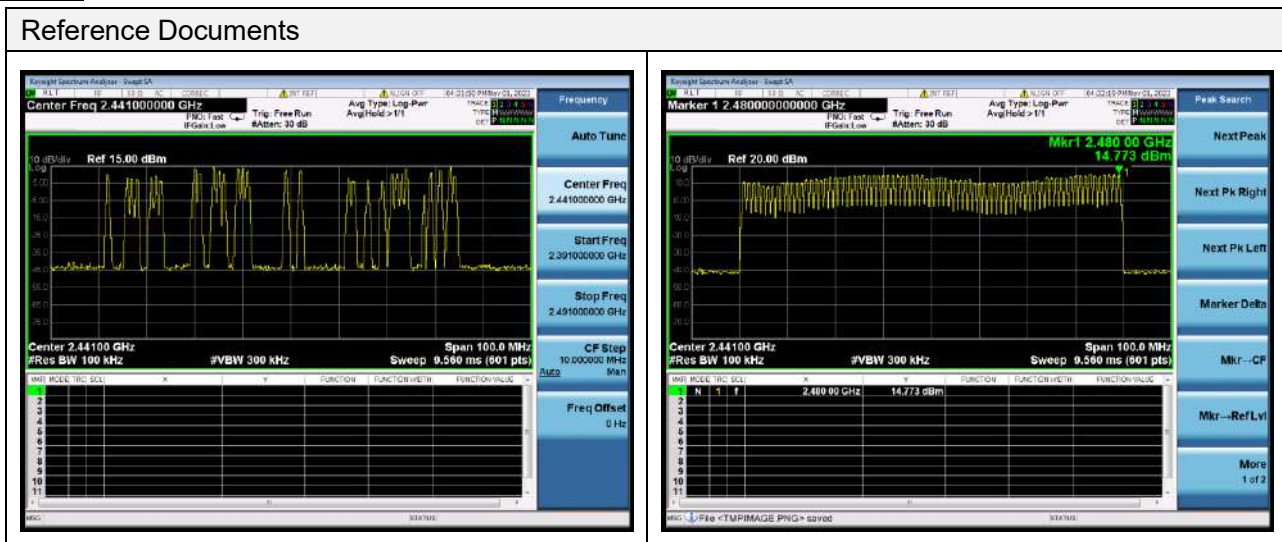
5.2.2 Description of the systems

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.

ANT14



ANT12



- 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 meet 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

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

{Period} = 0.4 s * {Number of Hopping Frequency}

For DH3 package type

{Total of Dwell} = {Pulse Time} * (800 / 4) / {Number of Hopping Frequency} * {Period}

{Period} = 0.4 s * {Number of Hopping Frequency}

For DH5 package type

{Total of Dwell} = {Pulse Time} * (800 / 6) / {Number of Hopping Frequency} * {Period}

{Period} = 0.4 s * {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 ($\mu\text{V}/\text{m}$)	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 (dB $\mu\text{V}/\text{m}$) = 20*log[Field Strength ($\mu\text{V}/\text{m}$)].
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

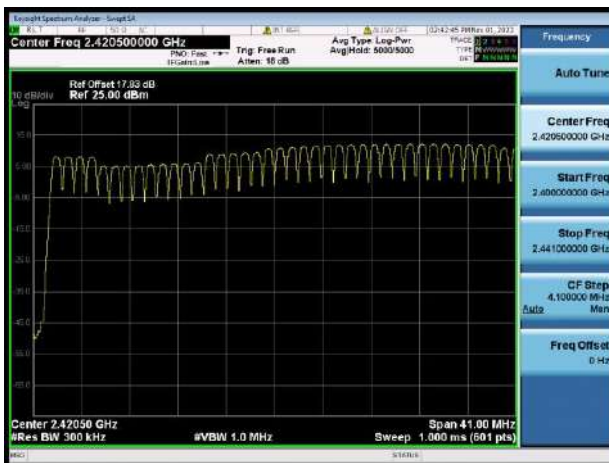
Test Data

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

ANT14

GFSK 2.4 GHz ~ 2.4415 GHz



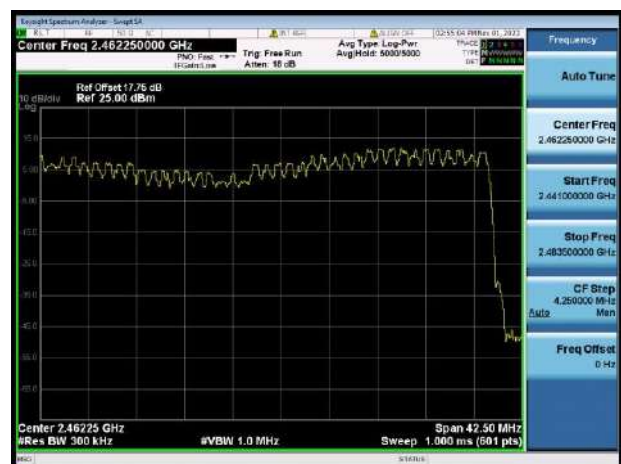
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz



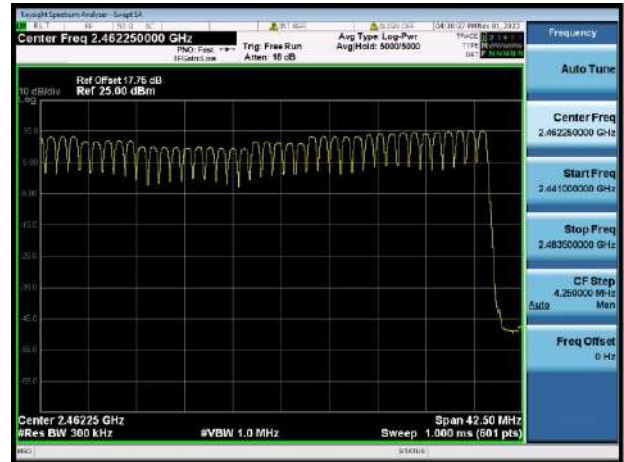
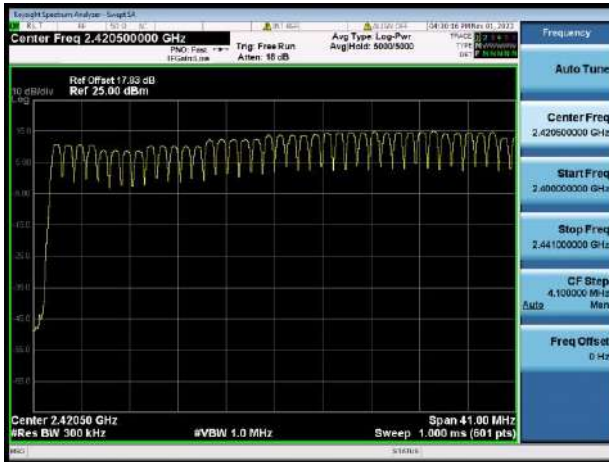
8-DPSK 2.4415 GHz ~ 2.4835 GHz



ANT12

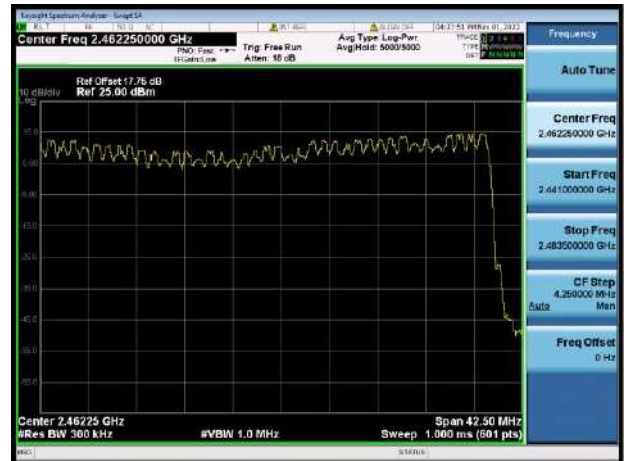
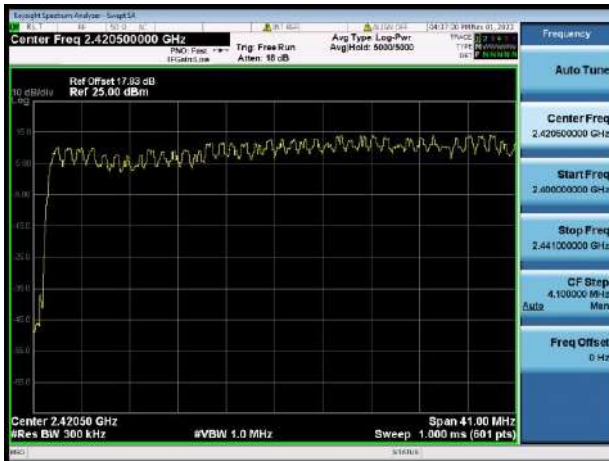
GFSK 2.4 GHz ~ 2.4415 GHz

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

Peak Power Test Data

ANT14

Channel	Measured Output Peak Power						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	8.46	7.02	7.76	5.97	7.77	5.98	21	125	Pass
Middle	11.08	12.82	10.43	11.05	10.43	11.04			Pass
High	11.96	15.71	11.43	13.90	11.45	13.95			Pass

ANT12

Channel	Measured Output Peak Power						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	11.32	13.56	10.60	11.47	10.54	11.33	21	125	Pass
Middle	13.80	23.98	12.85	19.29	12.79	18.99			Pass
High	15.49	35.41	14.78	30.05	14.76	29.92			Pass

Test Plots

ANT14

GFSK LOW CHANNEL



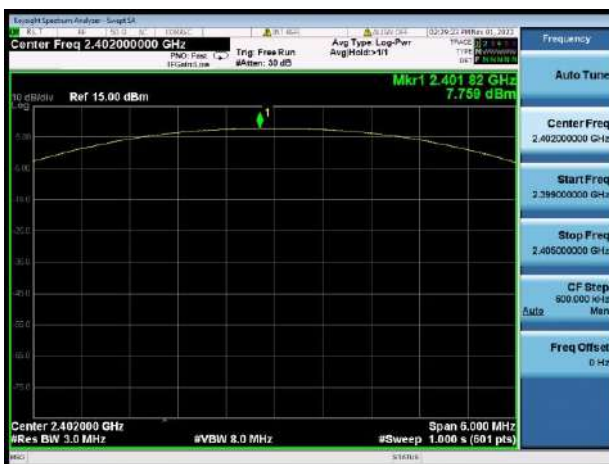
GFSK MIDDLE CHANNEL



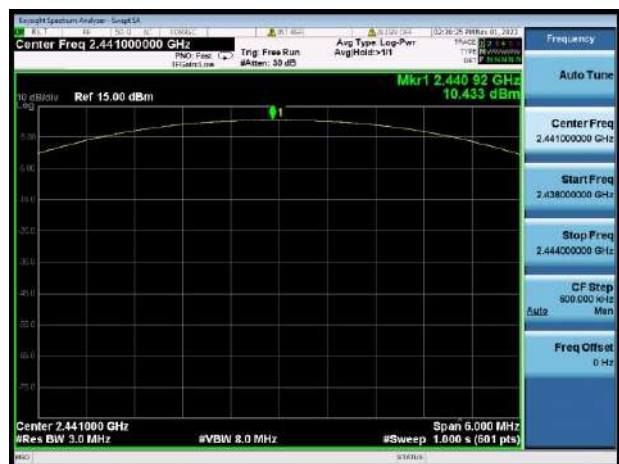
GFSK HIGH CHANNEL



$\pi/4$ -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



ANT12

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

ANT14

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	0.870000	0.755300
Middle	0.870000	0.755120
High	0.870000	0.755660
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.260000	1.145100
Middle	1.270000	1.145200
High	1.265000	1.149200
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.260000	1.144900
Middle	1.260000	1.147400
High	1.270000	1.152600

ANT12

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	0.870000	0.775020
Middle	0.865000	0.754310
High	0.865000	0.756340
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.260000	1.143900
Middle	1.260000	1.142300
High	1.270000	1.147300
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.260000	1.142300
Middle	1.260000	1.147100
High	1.260000	1.150700

Test Plots

ANT14

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL



π/4-DQPSK LOW CHANNEL



π/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



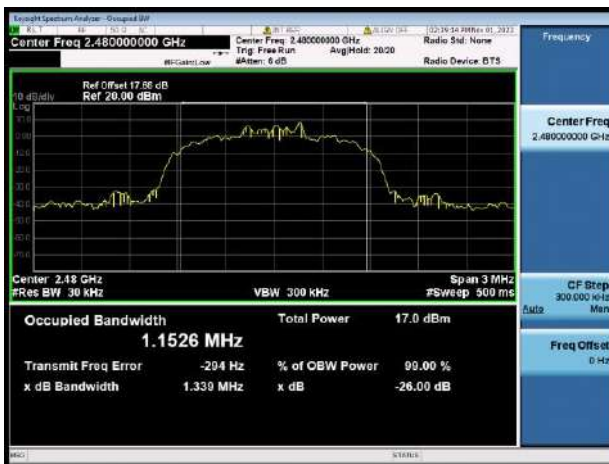
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



ANT12

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL



π/4-DQPSK LOW CHANNEL



π/4-DQPSK MIDDLE CHANNEL



$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL

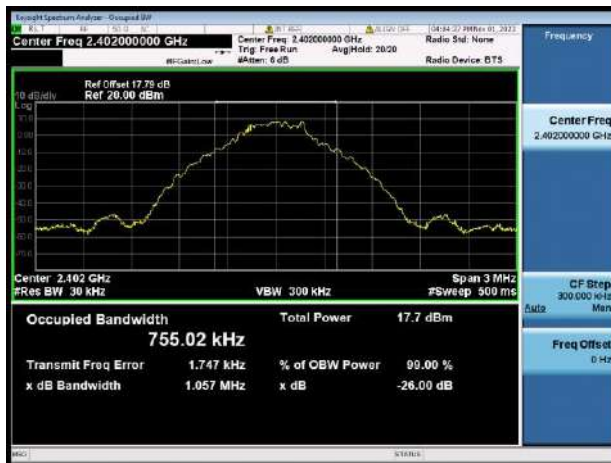


8-DPSK HIGH CHANNEL



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

ANT14

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.580	Pass
8-DPSK	1.000	0.847	Pass

ANT12

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.580	Pass
8-DPSK	1.000	0.840	Pass

Test Plots

ANT14

GFSK

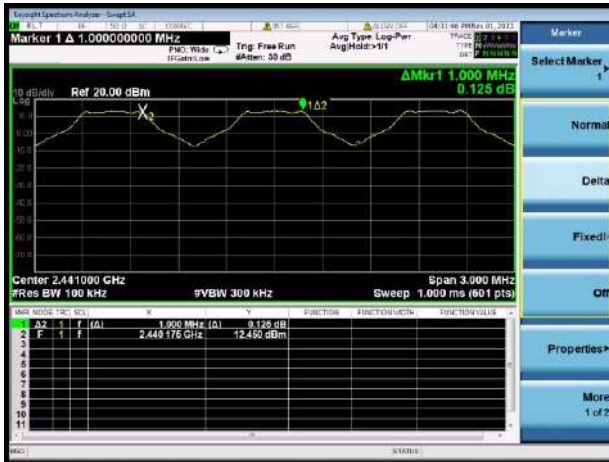
8-DPSK



ANT12

GFSK

8-DPSK



A.5 Average Time of Occupancy

Test Data

ANT14

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37280	119.296	0.4	Pass
DH 3	1.62700	260.320	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	1.63400	261.440	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	1.63400	130.720	0.4	Pass
DH 5	2.87600	153.387	0.4	Pass

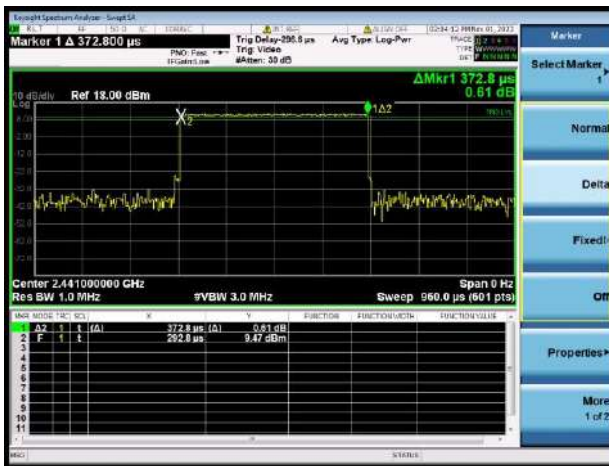
ANT12

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.37280	119.296	0.4	Pass
DH 3	1.62700	260.320	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	1.63400	261.440	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	1.62700	130.160	0.4	Pass
DH 5	2.88800	154.027	0.4	Pass

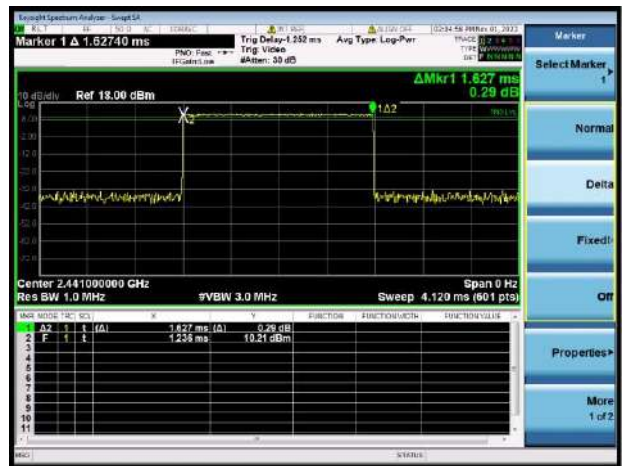
Test Plots

ANT14

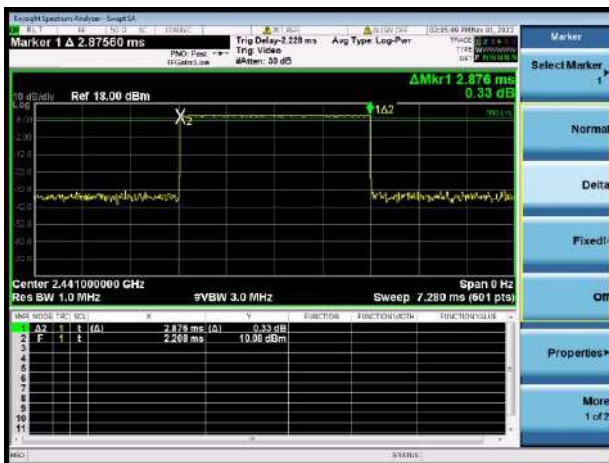
GFSK DH1



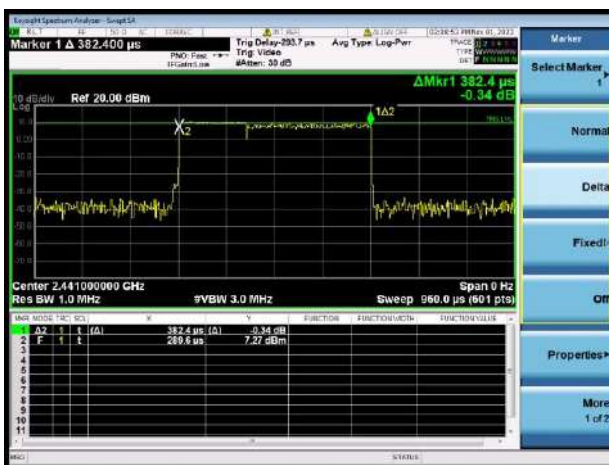
GFSK DH3



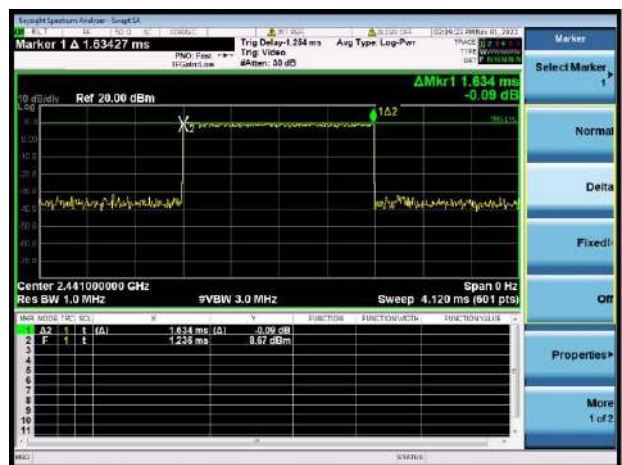
GFSK DH5



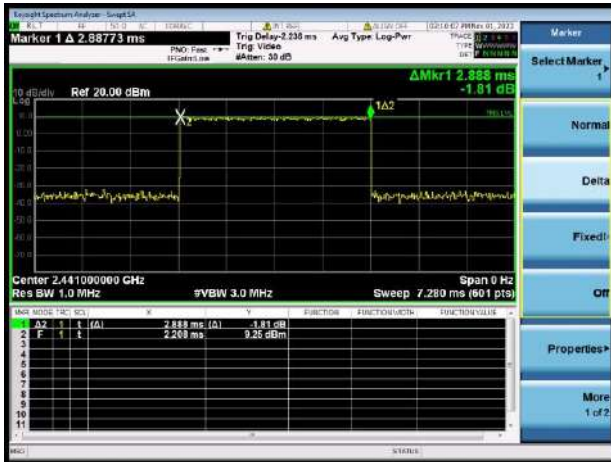
8-DPSK DH1



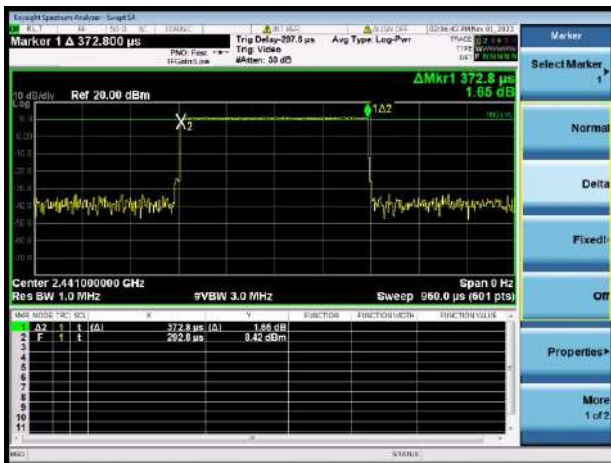
8-DPSK DH3



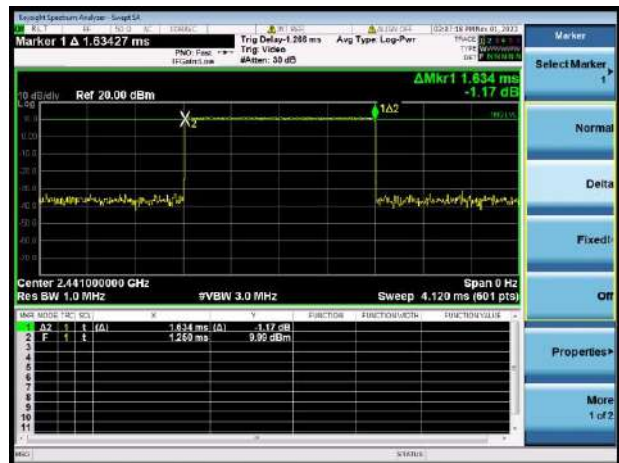
8-DPSK DH5



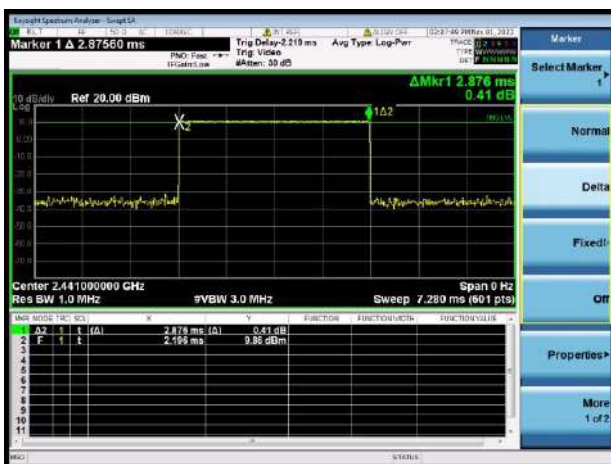
AFH Mode DH1



AFH Mode DH3

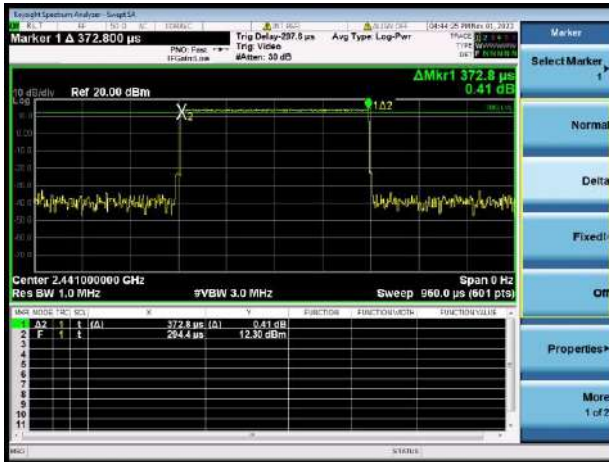


AFH Mode DH5

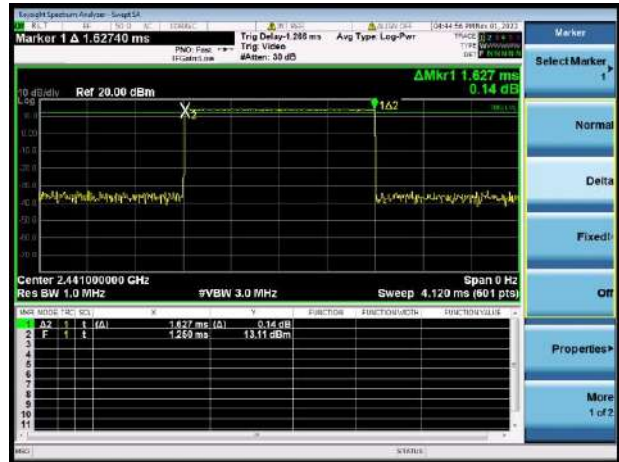


ANT12

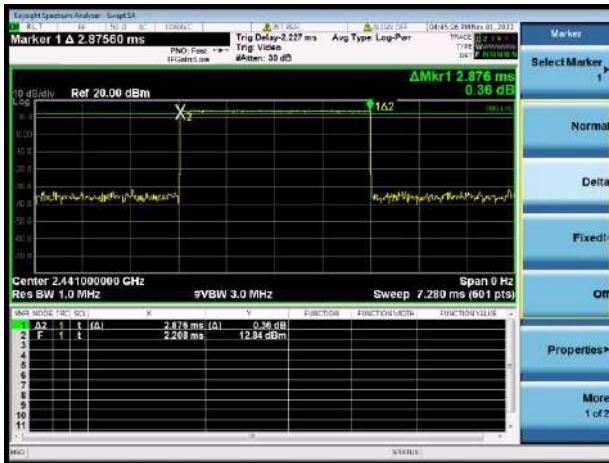
GFSK DH1



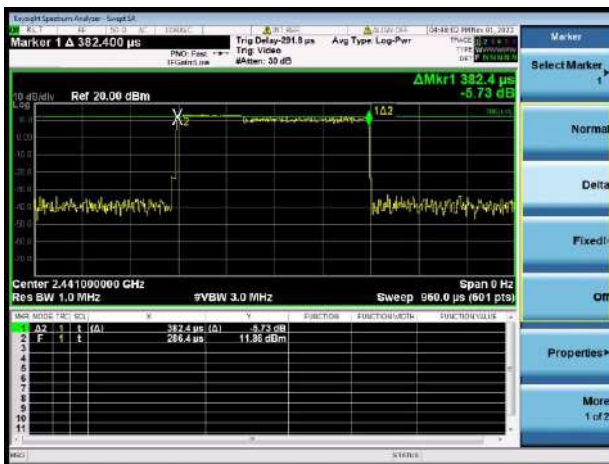
GFSK DH3



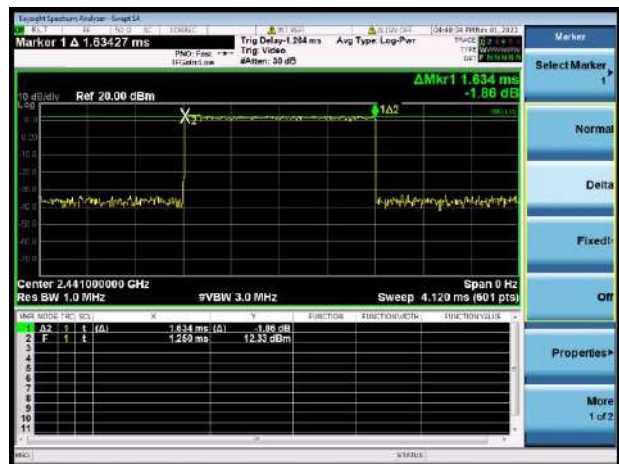
GFSK DH5



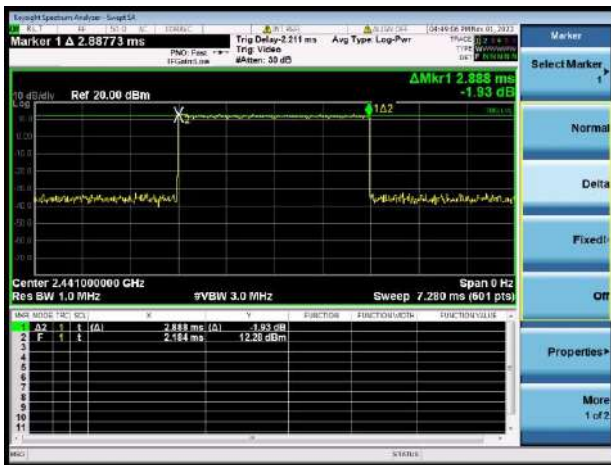
8-DPSK DH1



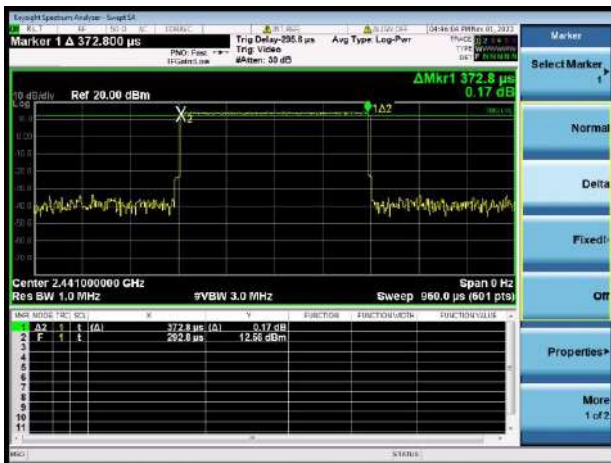
8-DPSK DH3



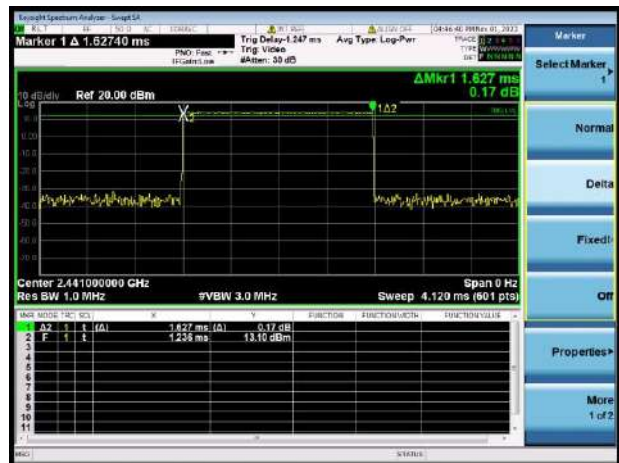
8-DPSK DH5



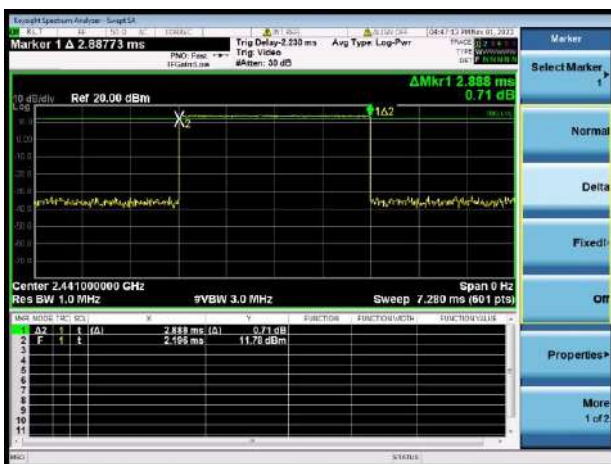
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

ANT14

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.19	7.72	-12.28	Pass
Middle	-23.38	10.28	-9.72	Pass
High	-25.08	11.18	-8.82	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.36	7.45	-12.55	Pass
Middle	-22.90	9.84	-10.17	Pass
High	-24.32	10.81	-9.20	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-24.51	12.09	-7.91	Pass
8-DPSK	-24.12	11.94	-8.06	Pass

ANT12

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.21	10.77	-9.23	Pass
Middle	-23.97	12.94	-7.06	Pass
High	-24.37	14.70	-5.30	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.24	9.71	-10.29	Pass
Middle	-24.72	12.30	-7.70	Pass
High	-24.28	14.38	-5.62	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-24.01	14.77	-5.23	Pass
8-DPSK	-22.84	13.77	-6.24	Pass

Test Plots

ANT14

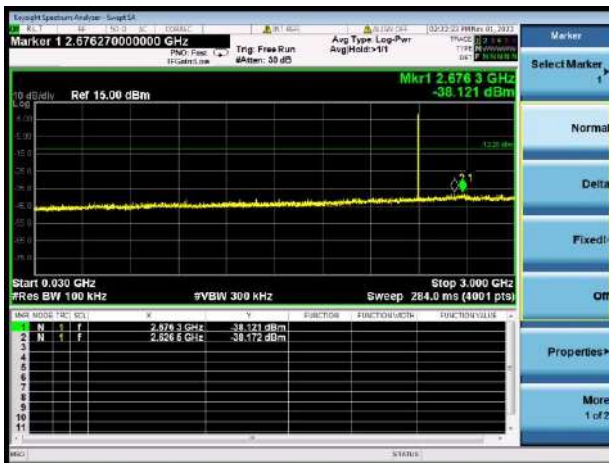
GFSK LOW CHANNEL, CARRIER LEVEL



GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



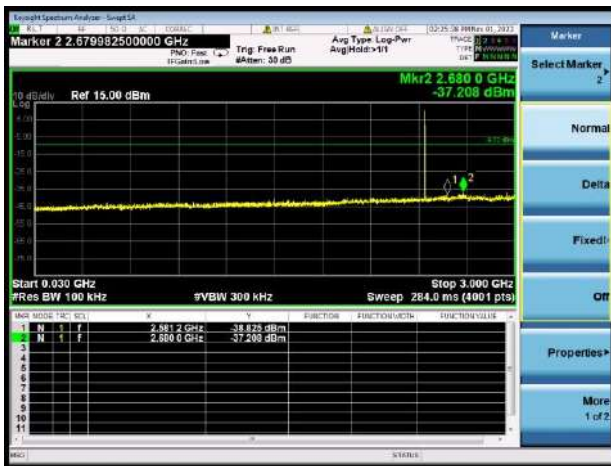
GFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



GFSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



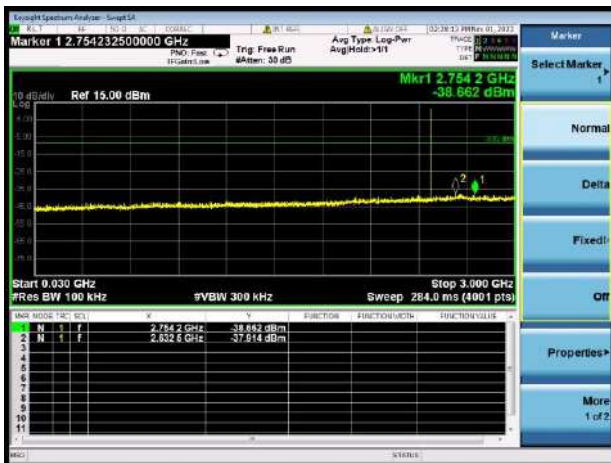
GFSK HIGH CHANNEL, CARRIER LEVEL



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

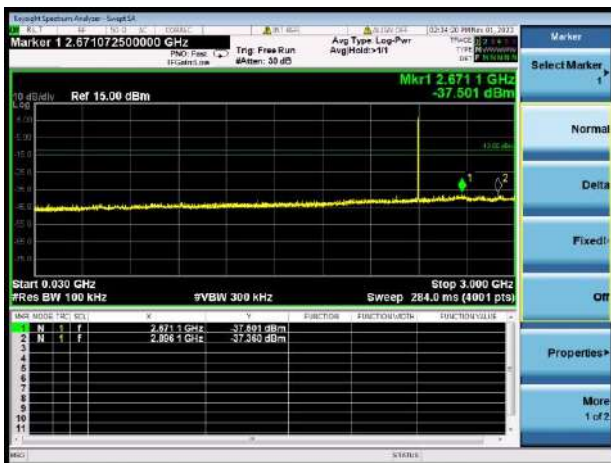


8-DPSK LOW CHANNEL, BAND EDGE



8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

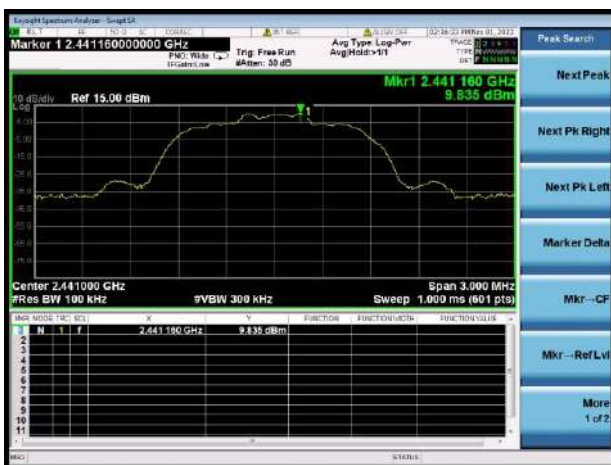


8-DPSK LOW CHANNEL, SPURIOUS

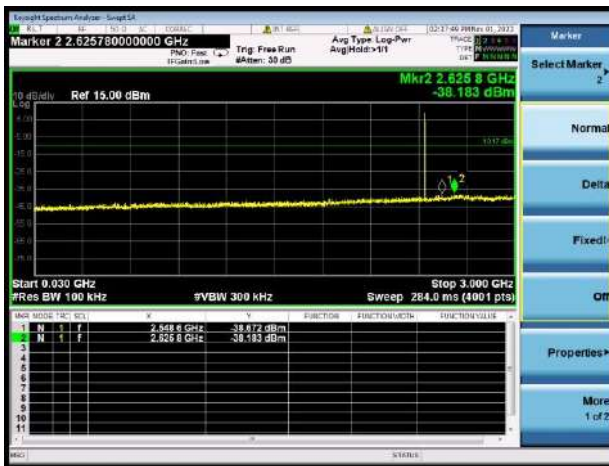
3 GHz ~ 25 GHz



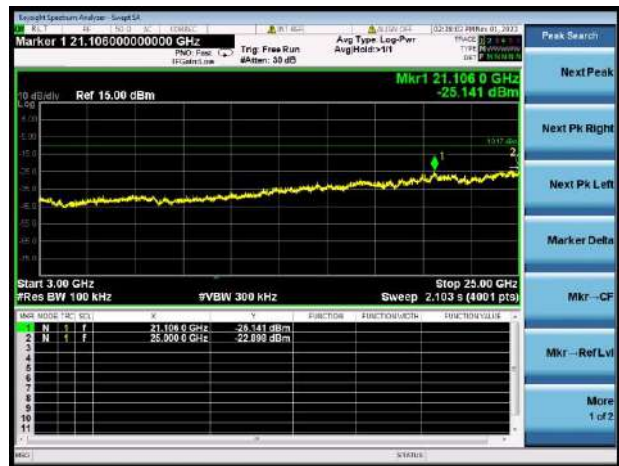
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



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



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



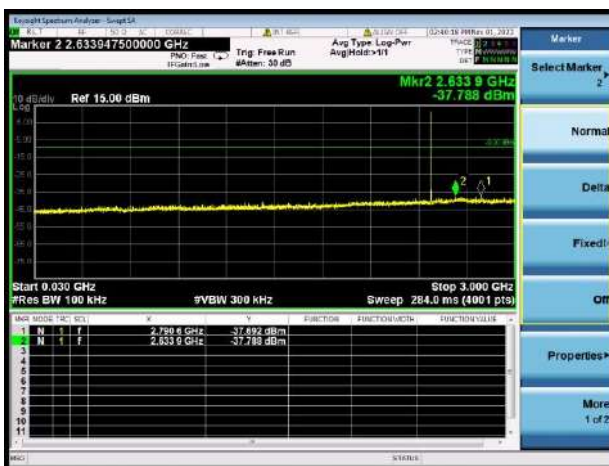
8-DPSK HIGH CHANNEL, CARRIER LEVEL



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



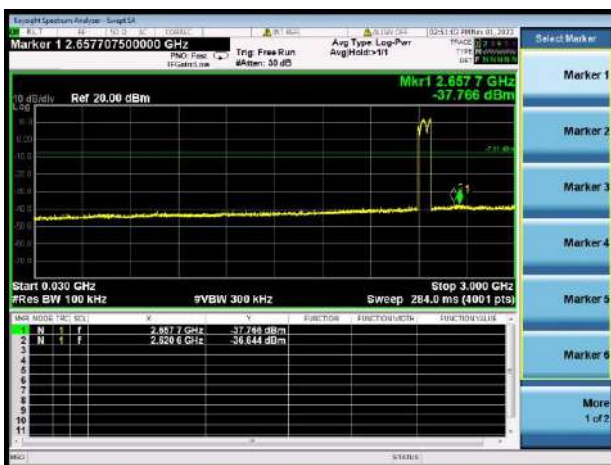
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)



GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz



GFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz



8-DPSK HOPPING, CARRIER LEVEL



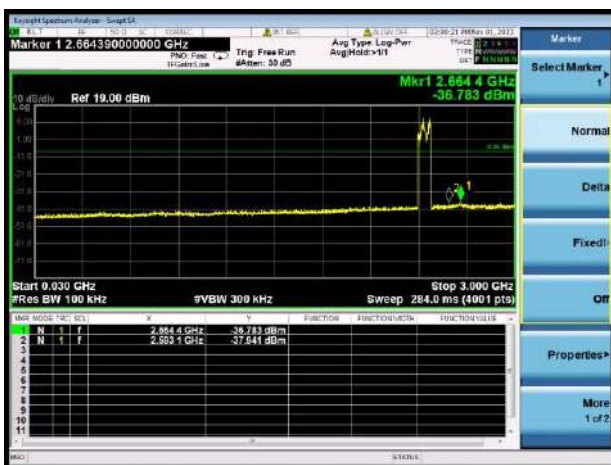
8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)



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



8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz



ANT12

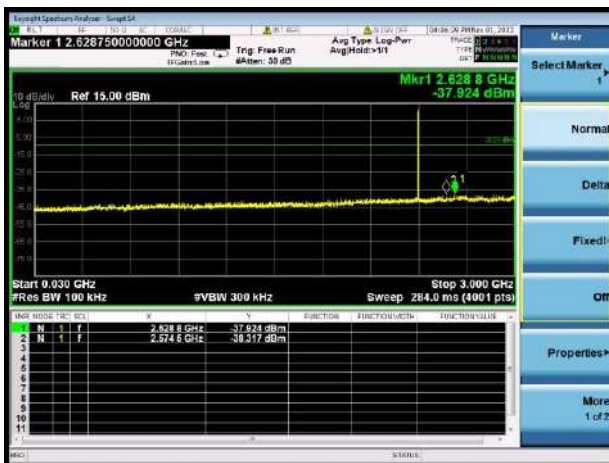
GFSK LOW CHANNEL, CARRIER LEVEL



GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



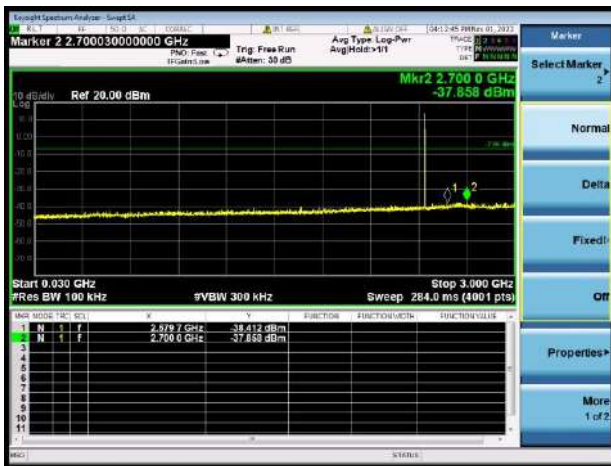
GFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



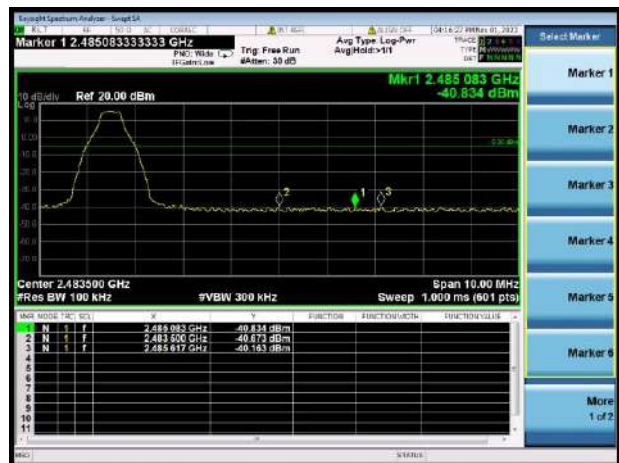
GFSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz



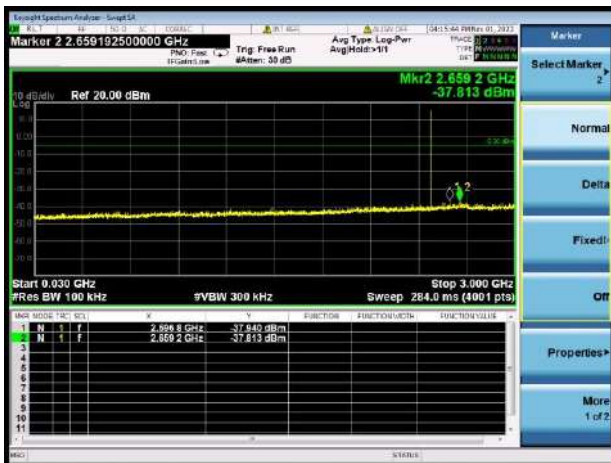
GFSK HIGH CHANNEL, CARRIER LEVEL



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

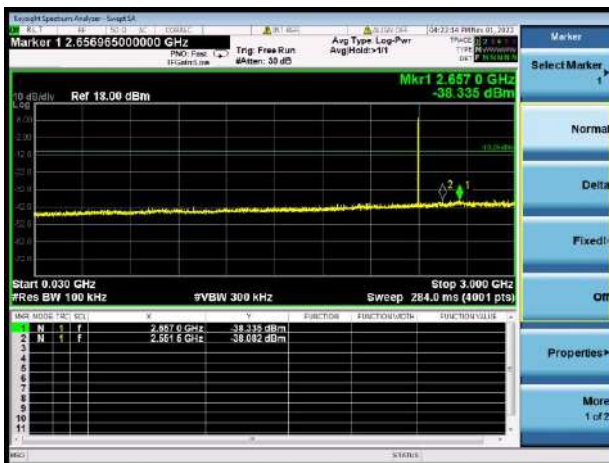


8-DPSK LOW CHANNEL, BAND EDGE



8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

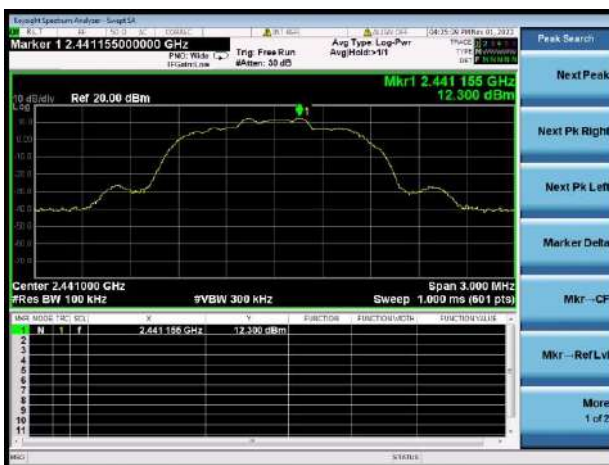


8-DPSK LOW CHANNEL, SPURIOUS

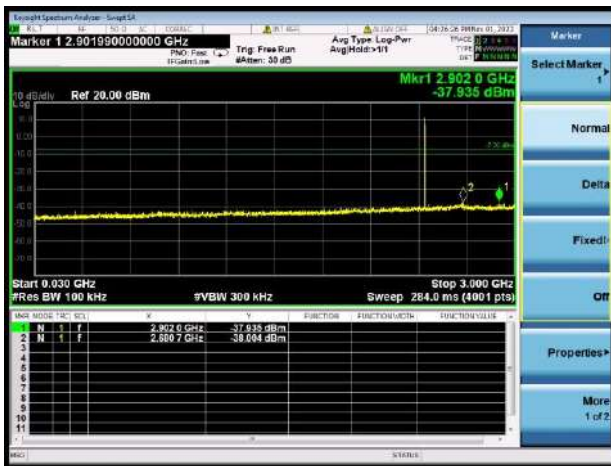
3 GHz ~ 25 GHz



8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



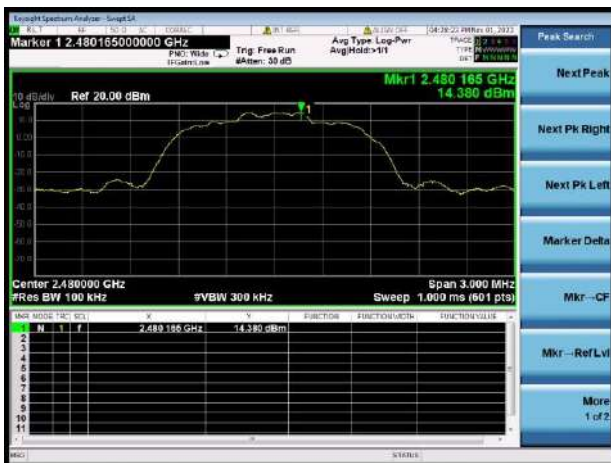
8-DPSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



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



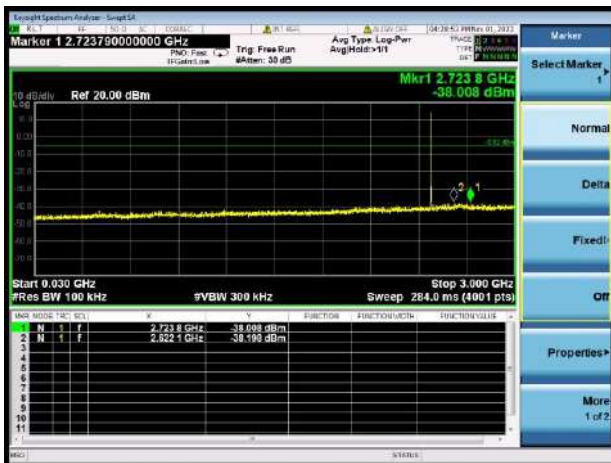
8-DPSK HIGH CHANNEL, CARRIER LEVEL



8-DPSK HIGH CHANNEL, BAND EDGE



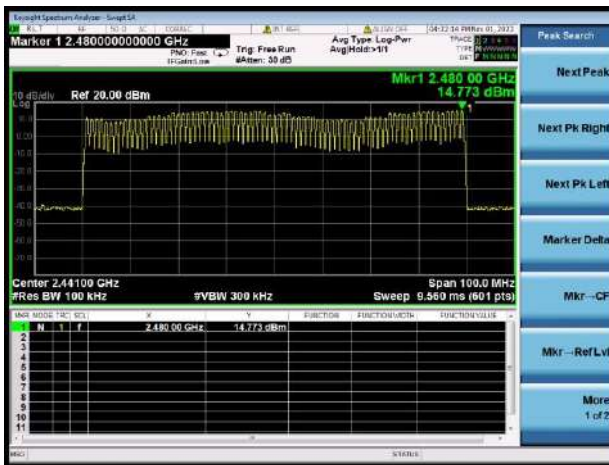
8-DPSK HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz



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



GFSK HOPPING, CARRIER LEVEL



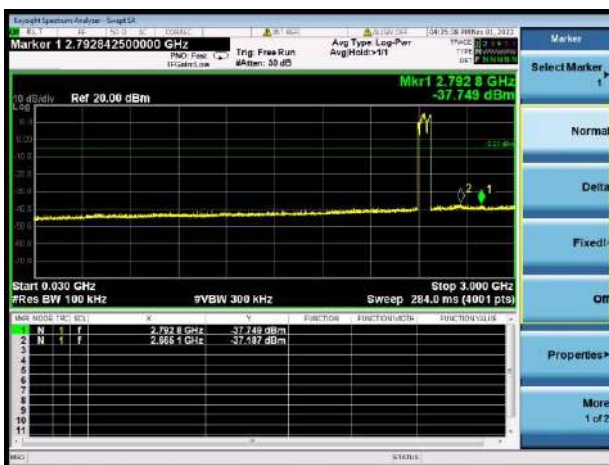
GFSK HOPPING BAND EDGE (LOW)



GFSK HOPPING BAND EDGE (HIGH)



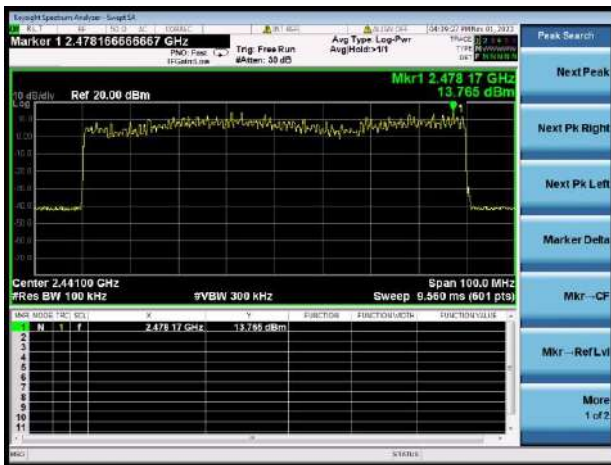
GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz



GFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz



8-DPSK HOPPING, CARRIER LEVEL



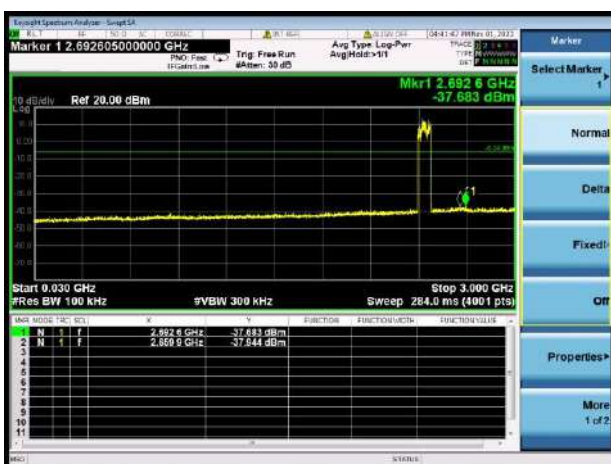
8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)



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



8-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.

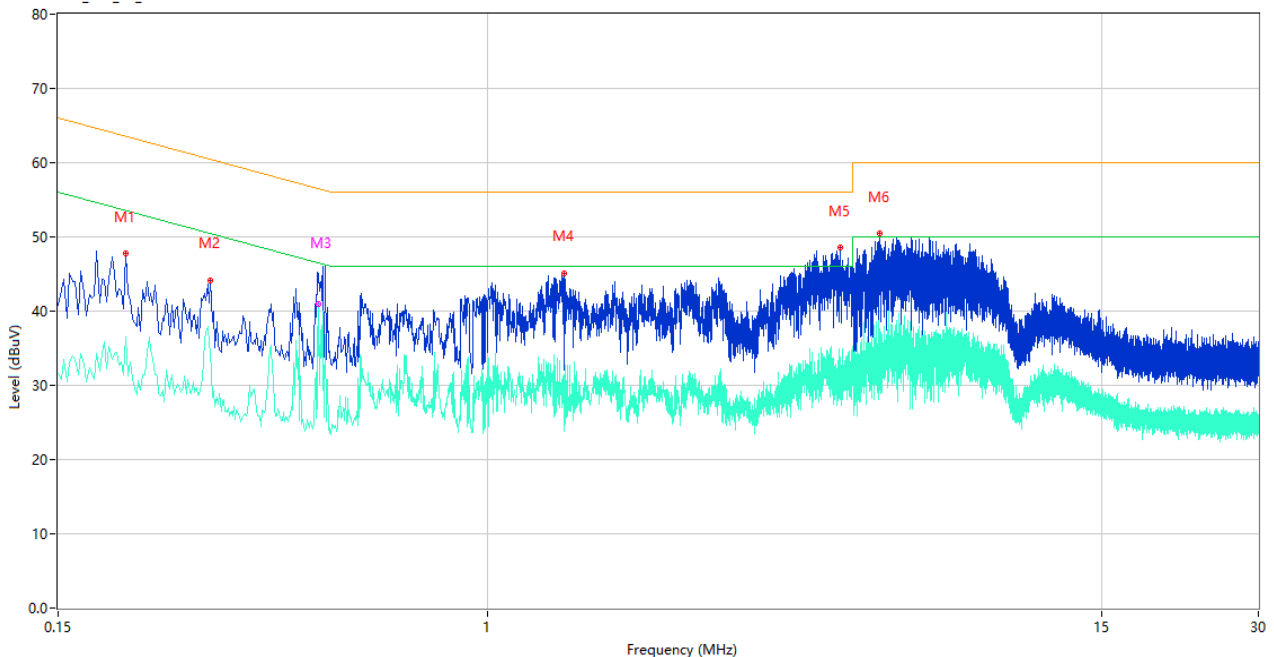
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

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

Test Data and Plots

PHASE L

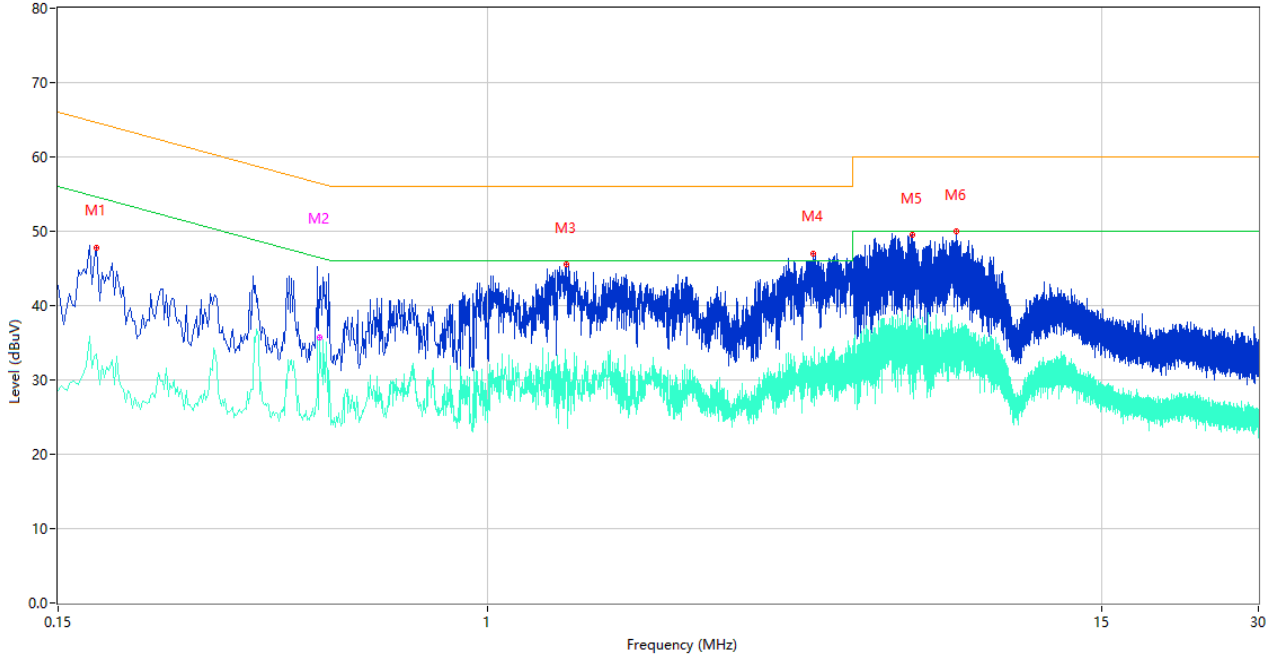
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.202	47.78	9.77	63.53	15.75	Peak	L	Pass
1**	0.202	36.57	9.77	53.53	16.96	AV	L	Pass
2	0.294	44.15	9.76	60.41	16.26	Peak	L	Pass
2**	0.294	34.56	9.76	50.41	15.85	AV	L	Pass
3	0.474	45.10	10.00	56.44	11.34	Peak	L	Pass
3**	0.474	40.98	10.00	46.44	5.46	AV	L	Pass
4	1.402	45.08	9.76	56.00	10.92	Peak	L	Pass
4**	1.402	30.38	9.76	46.00	15.62	AV	L	Pass
5	4.748	48.54	10.09	56.00	7.46	Peak	L	Pass
5**	4.748	33.08	10.09	46.00	12.92	AV	L	Pass
6	5.632	50.45	10.43	60.00	9.55	Peak	L	Pass
6**	5.632	33.26	10.43	50.00	16.74	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.178	47.82	9.78	64.58	16.76	Peak	N	Pass
1**	0.178	33.42	9.78	54.58	21.16	AV	N	Pass
2	0.476	42.56	10.00	56.41	13.85	Peak	N	Pass
2**	0.476	35.67	10.00	46.41	10.74	AV	N	Pass
3	1.416	45.52	9.85	56.00	10.48	Peak	N	Pass
3**	1.416	32.65	9.85	46.00	13.35	AV	N	Pass
4	4.210	46.91	10.05	56.00	9.09	Peak	N	Pass
4**	4.210	32.41	10.05	46.00	13.59	AV	N	Pass
5	6.518	49.49	10.17	60.00	10.51	Peak	N	Pass
5**	6.518	37.95	10.17	50.00	12.05	AV	N	Pass
6	7.918	49.93	10.31	60.00	10.07	Peak	N	Pass
6**	7.918	35.36	10.31	50.00	14.64	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.

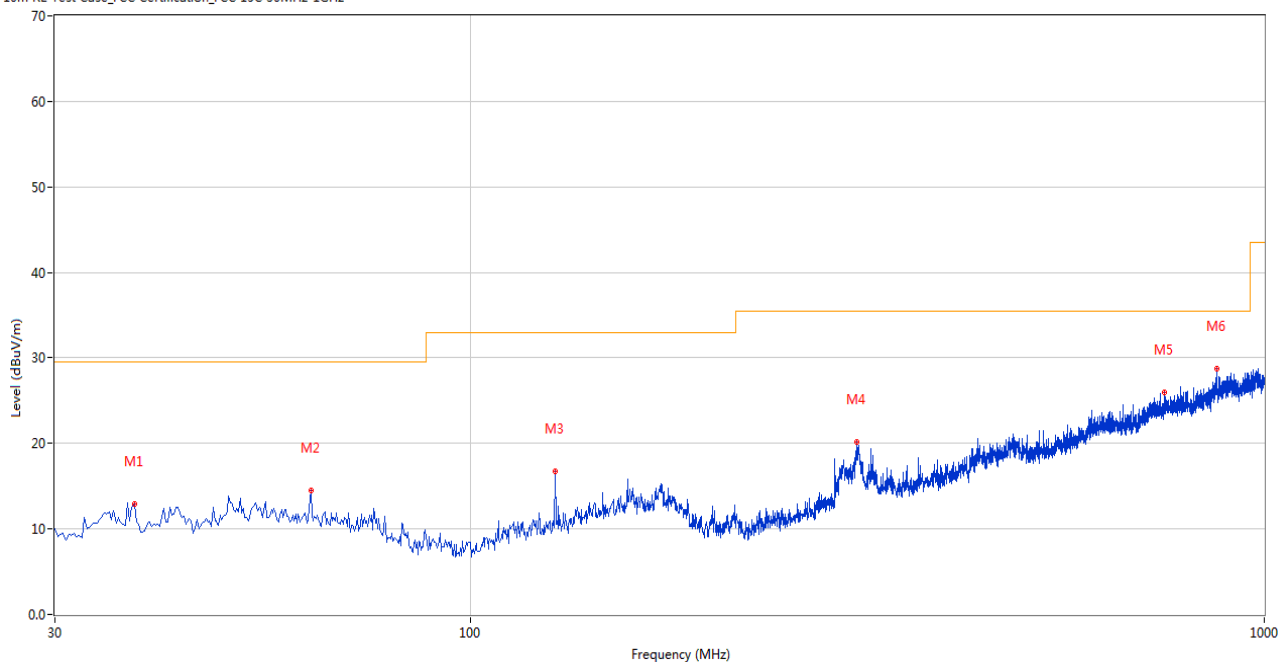
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

30 MHz to 1 GHz, ANT H

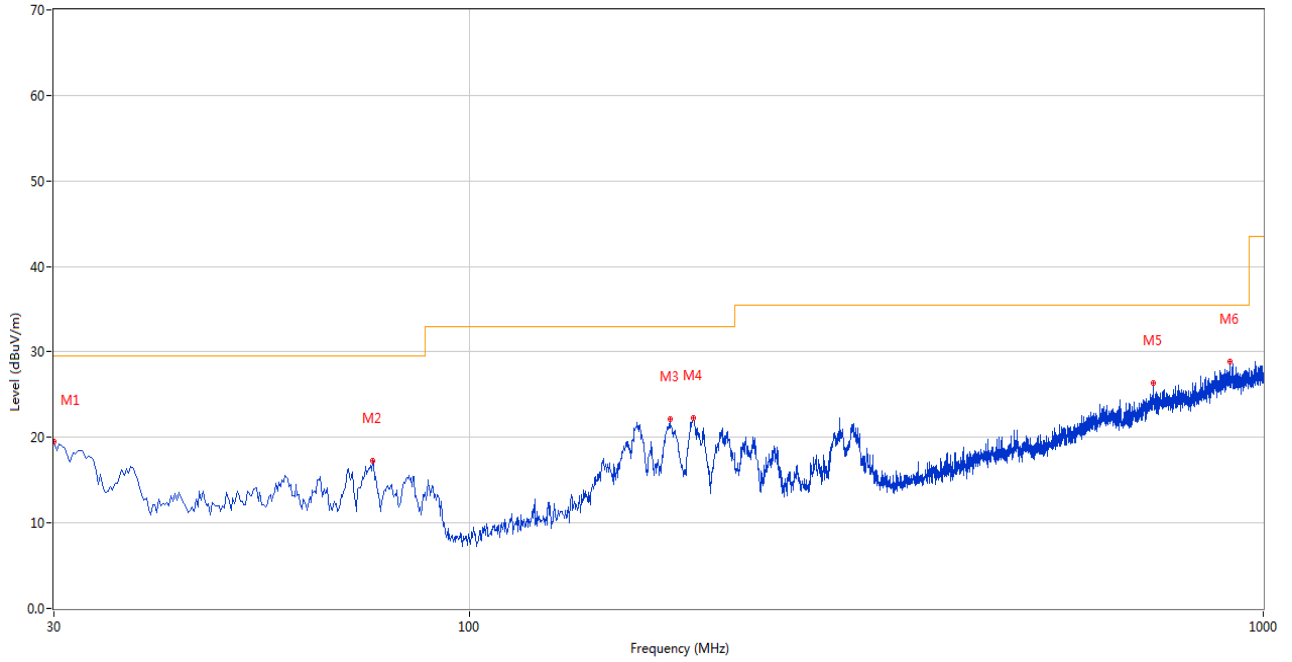
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.758	12.94	-26.92	29.5	16.56	Peak	220.00	100	Horizontal	Pass
2	62.972	14.51	-27.06	29.5	14.99	Peak	137.00	100	Horizontal	Pass
3	127.946	16.76	-27.49	33.0	16.24	Peak	28.00	200	Horizontal	Pass
4	306.866	20.13	-24.48	35.5	15.37	Peak	270.00	200	Horizontal	Pass
5	747.621	25.94	-13.17	35.5	9.56	Peak	360.00	100	Horizontal	Pass
6	871.265	28.75	-11.17	35.5	6.75	Peak	4.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



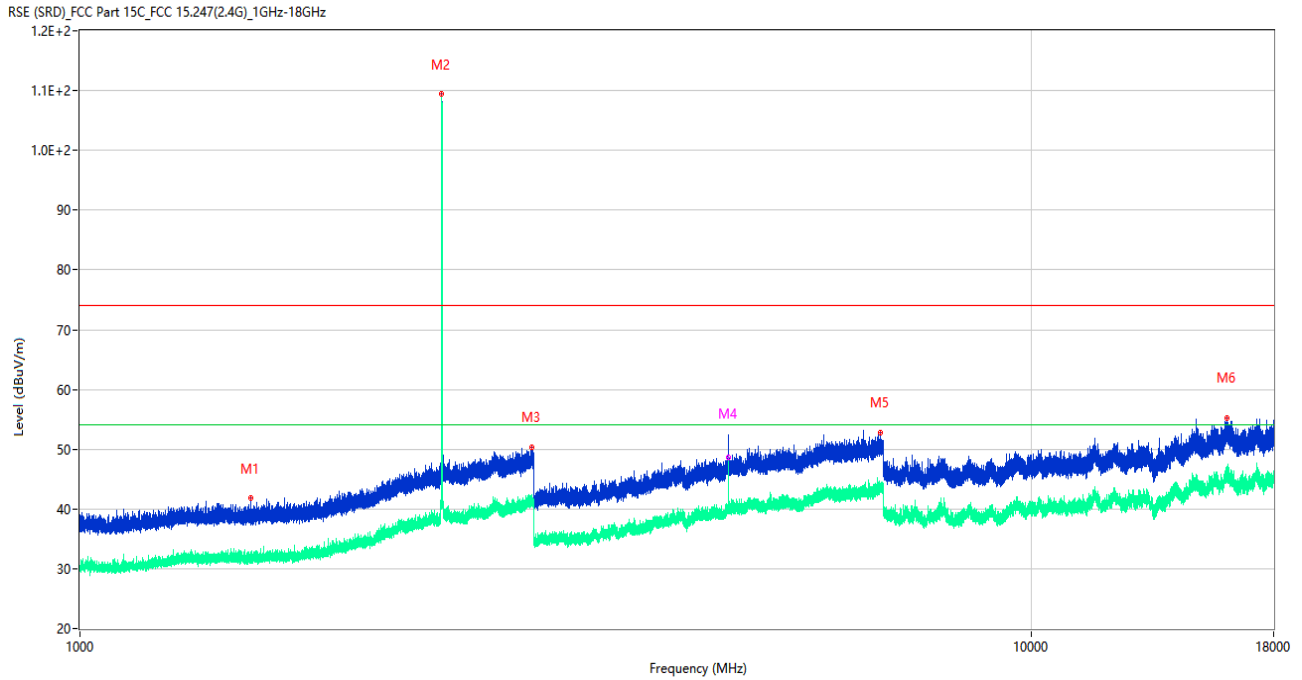
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.000	19.53	-28.25	29.5	9.97	Peak	338.00	100	Vertical	Pass
2	75.579	17.28	-29.17	29.5	12.22	Peak	208.00	200	Vertical	Pass
3	179.100	22.10	-27.16	33.0	10.90	Peak	155.00	100	Vertical	Pass
4	191.707	22.23	-28.62	33.0	10.77	Peak	211.00	100	Vertical	Pass
5	726.043	26.32	-14.01	35.5	9.18	Peak	360.00	100	Vertical	Pass
6	907.146	28.82	-10.63	35.5	6.68	Peak	257.00	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.

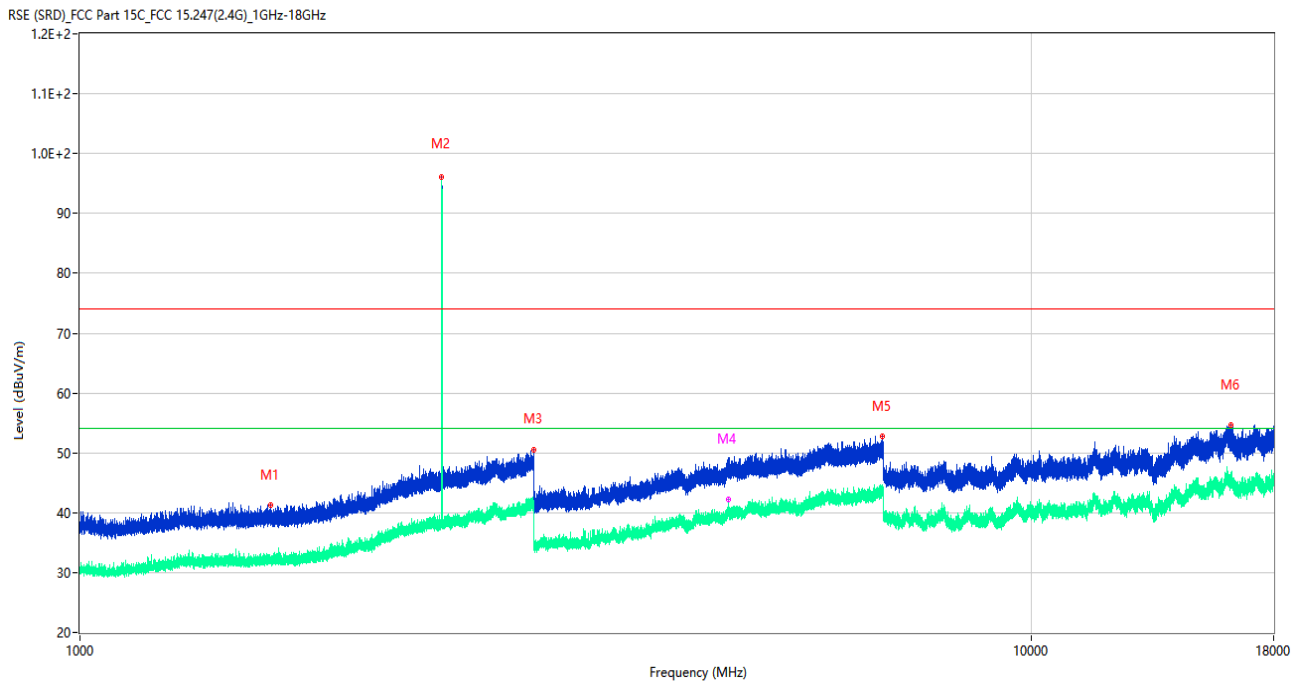
ANT14

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1513.000	41.77	-17.81	74.0	32.23	Peak	282.00	100	Horizontal	Pass
1**	1513.000	31.19	-17.81	54.0	22.81	AV	282.00	100	Horizontal	Pass
2	2402.000	109.41	-13.35	74.0	-35.41	Peak	273.00	150	Horizontal	N/A
2**	2402.000	108.83	-13.35	54.0	-54.83	AV	273.00	150	Horizontal	N/A
3	2986.700	50.29	-10.14	74.0	23.71	Peak	313.00	150	Horizontal	Pass
3**	2986.700	41.06	-10.14	54.0	12.94	AV	313.00	150	Horizontal	Pass
4	4804.000	52.36	-3.48	74.0	21.64	Peak	186.00	200	Horizontal	Pass
4**	4804.000	48.56	-3.48	54.0	5.44	AV	186.00	200	Horizontal	Pass
5	6947.600	52.83	-0.43	74.0	21.17	Peak	39.00	400	Horizontal	Pass
5**	6947.600	42.78	-0.43	54.0	11.22	AV	39.00	400	Horizontal	Pass
6	16088.475	55.16	6.89	74.0	18.84	Peak	62.00	100	Horizontal	Pass
6**	16088.475	45.32	6.89	54.0	8.68	AV	62.00	100	Horizontal	Pass

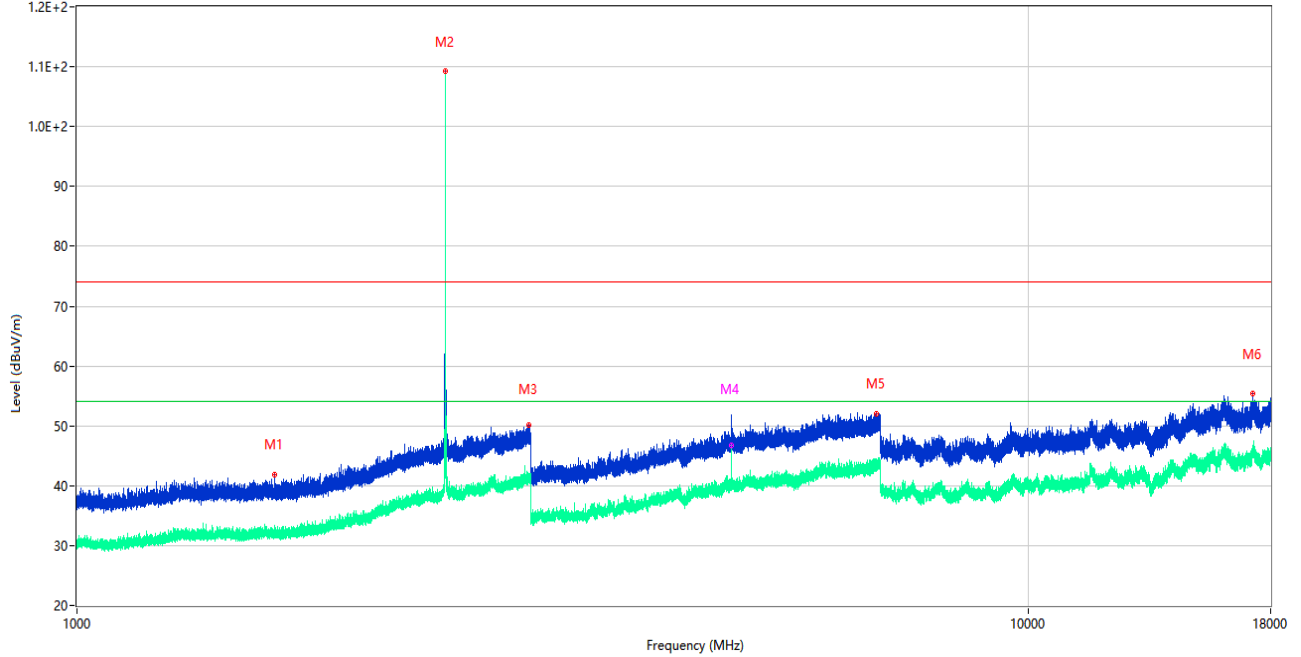
GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1586.300	41.36	-17.65	74.0	32.64	Peak	327.00	200	Vertical	Pass
1**	1586.300	31.77	-17.65	54.0	22.23	AV	327.00	200	Vertical	Pass
2	2402.000	96.11	-13.35	74.0	-22.11	Peak	22.00	100	Vertical	N/A
2**	2402.000	95.40	-13.35	54.0	-41.40	AV	22.00	100	Vertical	N/A
3	2997.600	50.45	-10.15	74.0	23.55	Peak	63.00	150	Vertical	Pass
3**	2997.600	40.62	-10.15	54.0	13.38	AV	63.00	150	Vertical	Pass
4	4804.000	49.14	-3.48	74.0	24.86	Peak	237.00	150	Vertical	Pass
4**	4804.000	42.24	-3.48	54.0	11.76	AV	237.00	150	Vertical	Pass
5	6981.400	52.83	-0.47	74.0	21.17	Peak	340.00	300	Vertical	Pass
5**	6981.400	43.16	-0.47	54.0	10.84	AV	340.00	300	Vertical	Pass
6	16234.162	54.70	6.40	74.0	19.30	Peak	162.00	200	Vertical	Pass
6**	16234.162	45.15	6.40	54.0	8.85	AV	162.00	200	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

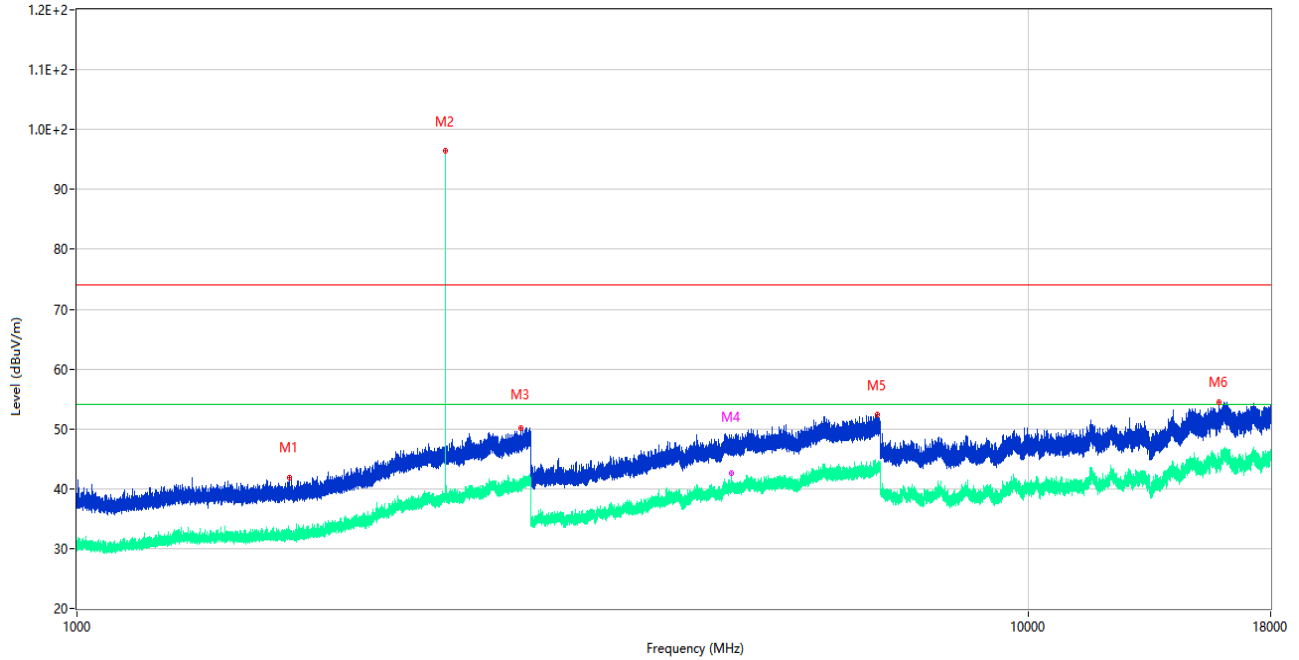
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1615.300	41.87	-17.71	74.0	32.13	Peak	105.00	100	Horizontal	Pass
1**	1615.300	32.33	-17.71	54.0	21.67	AV	105.00	100	Horizontal	Pass
2	2441.100	109.21	-12.47	74.0	-35.21	Peak	271.00	150	Horizontal	N/A
2**	2441.100	108.79	-12.47	54.0	-54.79	AV	271.00	150	Horizontal	N/A
3	2987.500	50.17	-10.14	74.0	23.83	Peak	168.00	150	Horizontal	Pass
3**	2987.500	40.99	-10.14	54.0	13.01	AV	168.00	150	Horizontal	Pass
4	4882.000	50.37	-3.64	74.0	23.63	Peak	136.00	100	Horizontal	Pass
4**	4882.000	46.78	-3.64	54.0	7.22	AV	136.00	100	Horizontal	Pass
5	6934.800	52.10	-0.42	74.0	21.90	Peak	313.00	300	Horizontal	Pass
5**	6934.800	43.74	-0.42	54.0	10.26	AV	313.00	300	Horizontal	Pass
6	17230.612	55.37	6.19	74.0	18.63	Peak	12.00	300	Horizontal	Pass
6**	17230.612	45.45	6.19	54.0	8.55	AV	12.00	300	Horizontal	Pass

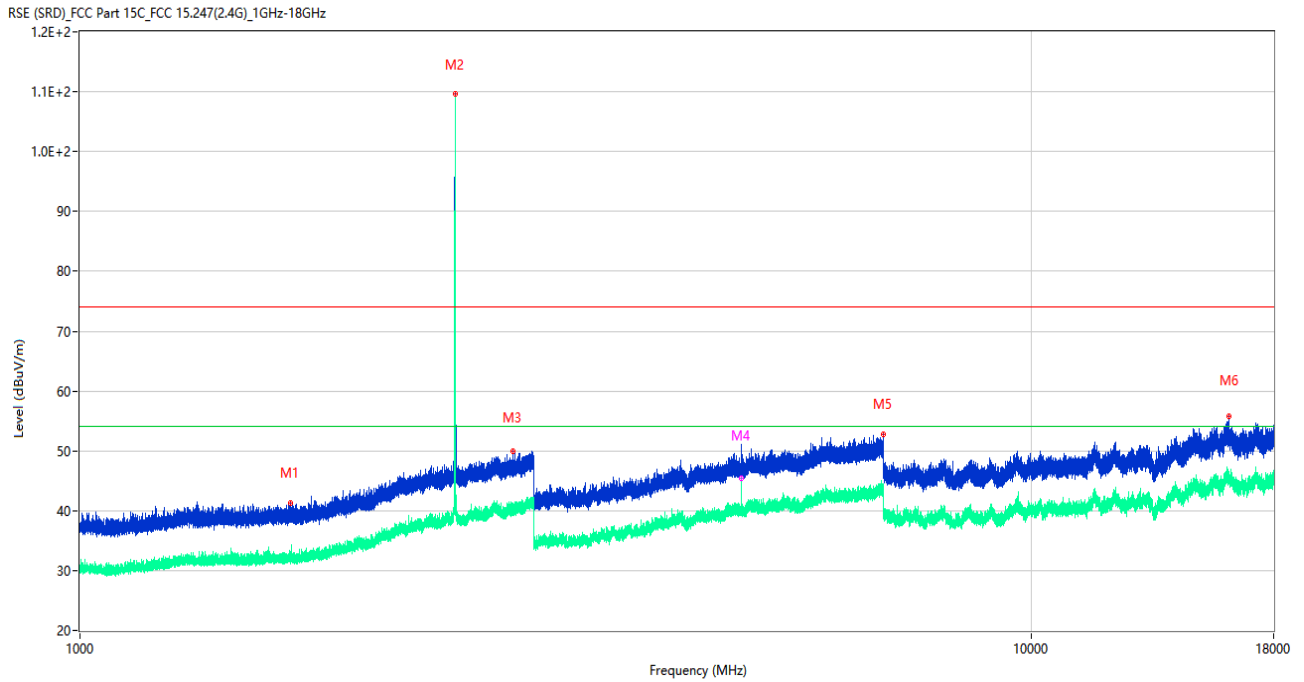
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

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



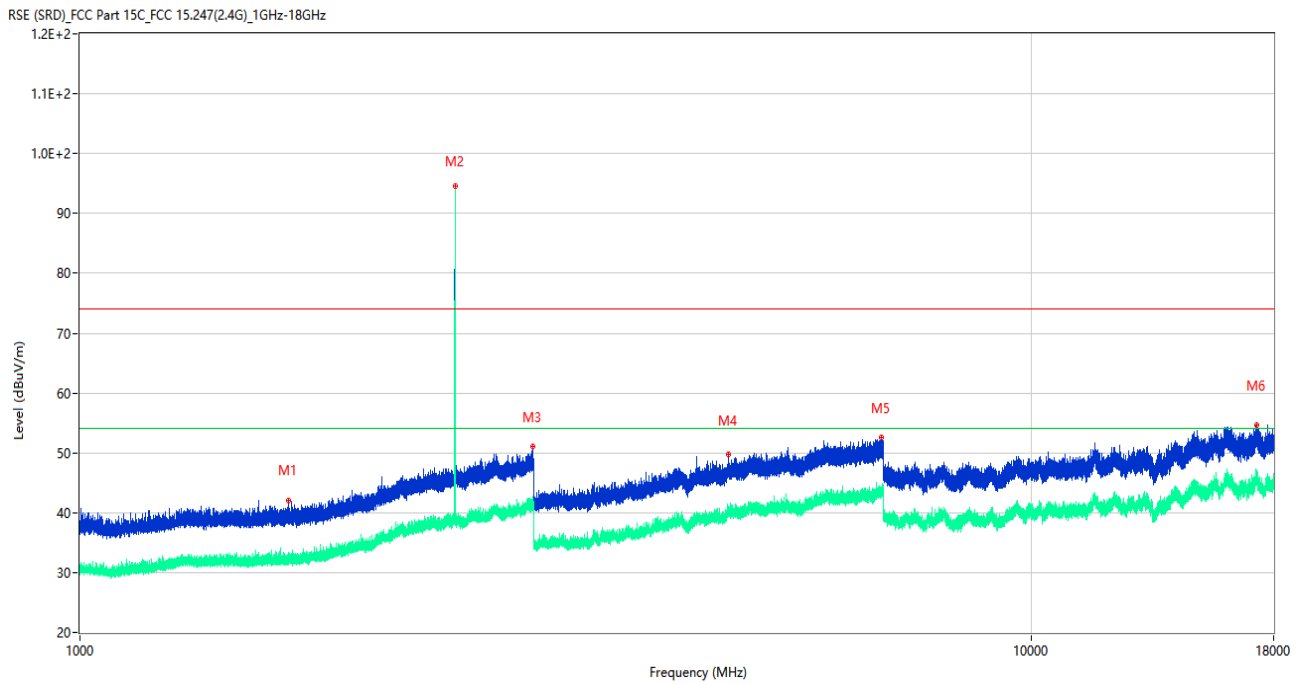
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1673.200	41.89	-17.50	74.0	32.11	Peak	114.00	100	Vertical	Pass
1**	1673.200	32.33	-17.50	54.0	21.67	AV	114.00	100	Vertical	Pass
2	2441.000	96.38	-12.47	74.0	-22.38	Peak	39.00	100	Vertical	N/A
2**	2441.000	95.95	-12.47	54.0	-41.95	AV	39.00	100	Vertical	N/A
3	2928.500	50.20	-10.55	74.0	23.80	Peak	217.00	150	Vertical	Pass
3**	2928.500	40.41	-10.55	54.0	13.59	AV	217.00	150	Vertical	Pass
4	4881.800	47.66	-3.65	74.0	26.34	Peak	3.00	200	Vertical	Pass
4**	4881.800	42.53	-3.65	54.0	11.47	AV	3.00	200	Vertical	Pass
5	6939.600	52.33	-0.38	74.0	21.67	Peak	227.00	100	Vertical	Pass
5**	6939.600	43.82	-0.38	54.0	10.18	AV	227.00	100	Vertical	Pass
6	15894.225	54.55	5.26	74.0	19.45	Peak	110.00	300	Vertical	Pass
6**	15894.225	44.29	5.26	54.0	9.71	AV	110.00	300	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1666.000	41.36	-17.39	74.0	32.64	Peak	15.00	300	Horizontal	Pass
1**	1666.000	31.89	-17.39	54.0	22.11	AV	15.00	300	Horizontal	Pass
2	2480.000	109.61	-12.83	74.0	-35.61	Peak	279.00	200	Horizontal	N/A
2**	2480.000	109.17	-12.83	54.0	-55.17	AV	279.00	200	Horizontal	N/A
3	2851.000	49.98	-10.71	74.0	24.02	Peak	148.00	150	Horizontal	Pass
3**	2851.000	39.77	-10.71	54.0	14.23	AV	148.00	150	Horizontal	Pass
4	4960.200	50.20	-3.98	74.0	23.80	Peak	221.00	150	Horizontal	Pass
4**	4960.200	45.37	-3.98	54.0	8.63	AV	221.00	150	Horizontal	Pass
5	6989.200	52.77	-0.41	74.0	21.23	Peak	330.00	100	Horizontal	Pass
5**	6989.200	43.36	-0.41	54.0	10.64	AV	330.00	100	Horizontal	Pass
6	16171.425	55.78	6.38	74.0	18.22	Peak	300.00	400	Horizontal	Pass
6**	16171.425	44.73	6.38	54.0	9.27	AV	300.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1656.800	42.04	-17.53	74.0	31.96	Peak	229.00	100	Vertical	Pass
1**	1656.800	32.01	-17.53	54.0	21.99	AV	229.00	100	Vertical	Pass
2	2479.900	94.49	-12.83	74.0	-20.49	Peak	168.00	100	Vertical	N/A
2**	2479.900	93.55	-12.83	54.0	-39.55	AV	168.00	100	Vertical	N/A
3	2994.200	51.00	-10.05	74.0	23.00	Peak	80.00	200	Vertical	Pass
3**	2994.200	41.13	-10.05	54.0	12.87	AV	80.00	200	Vertical	Pass
4	4803.200	49.74	-3.48	74.0	24.26	Peak	346.00	400	Vertical	Pass
4**	4803.200	40.86	-3.48	54.0	13.14	AV	346.00	400	Vertical	Pass
5	6958.400	52.56	-0.54	74.0	21.44	Peak	149.00	300	Vertical	Pass
5**	6958.400	43.23	-0.54	54.0	10.77	AV	149.00	300	Vertical	Pass
6	17280.225	54.67	6.42	74.0	19.33	Peak	360.00	300	Vertical	Pass
6**	17280.225	45.09	6.42	54.0	8.91	AV	360.00	300	Vertical	Pass

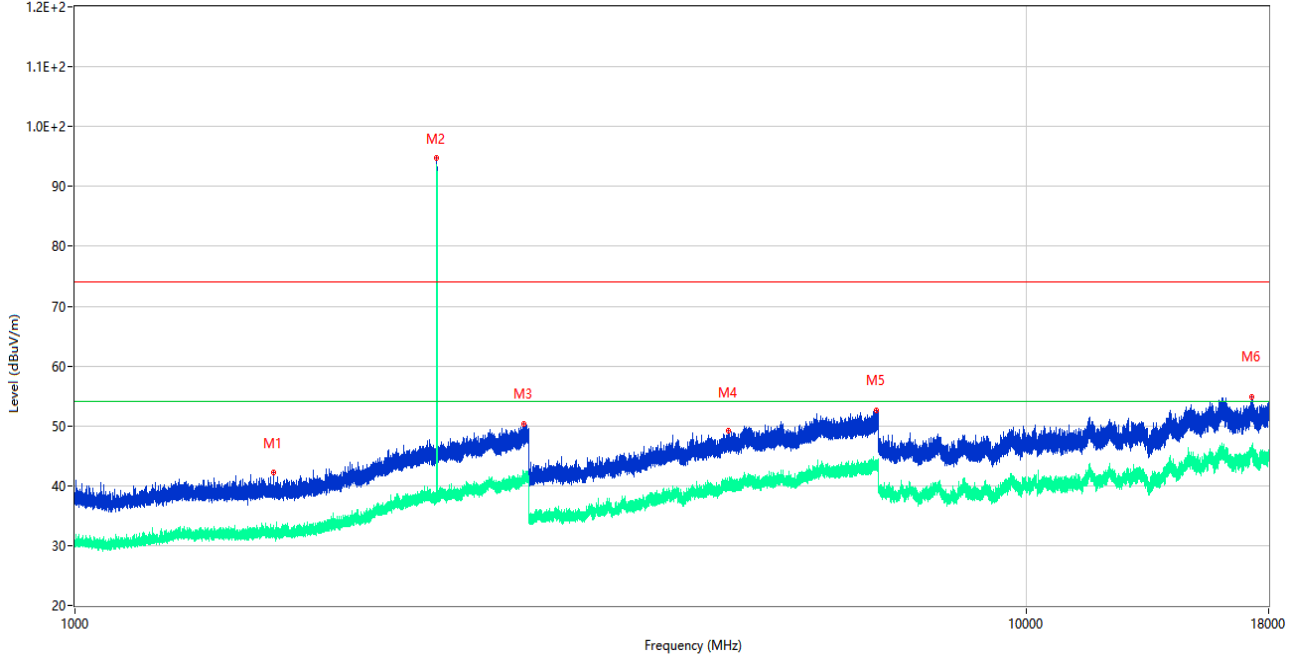
8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1636.100	41.43	-17.75	74.0	32.57	Peak	321.00	400	Horizontal	Pass
1**	1636.100	31.65	-17.75	54.0	22.35	AV	321.00	400	Horizontal	Pass
2	2402.200	107.99	-13.34	74.0	-33.99	Peak	274.00	200	Horizontal	N/A
2**	2402.200	107.26	-13.34	54.0	-53.26	AV	274.00	200	Horizontal	N/A
3	2987.300	50.91	-10.14	74.0	23.09	Peak	155.00	200	Horizontal	Pass
3**	2987.300	40.75	-10.14	54.0	13.25	AV	155.00	200	Horizontal	Pass
4	4804.200	51.05	-3.48	74.0	22.95	Peak	207.00	300	Horizontal	Pass
4**	4804.200	47.05	-3.48	54.0	6.95	AV	207.00	300	Horizontal	Pass
5	6951.000	52.63	-0.51	74.0	21.37	Peak	84.00	200	Horizontal	Pass
5**	6951.000	43.46	-0.51	54.0	10.54	AV	84.00	200	Horizontal	Pass
6	17825.700	55.17	5.23	74.0	18.83	Peak	145.00	300	Horizontal	Pass
6**	17825.700	44.87	5.23	54.0	9.13	AV	145.00	300	Horizontal	Pass

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

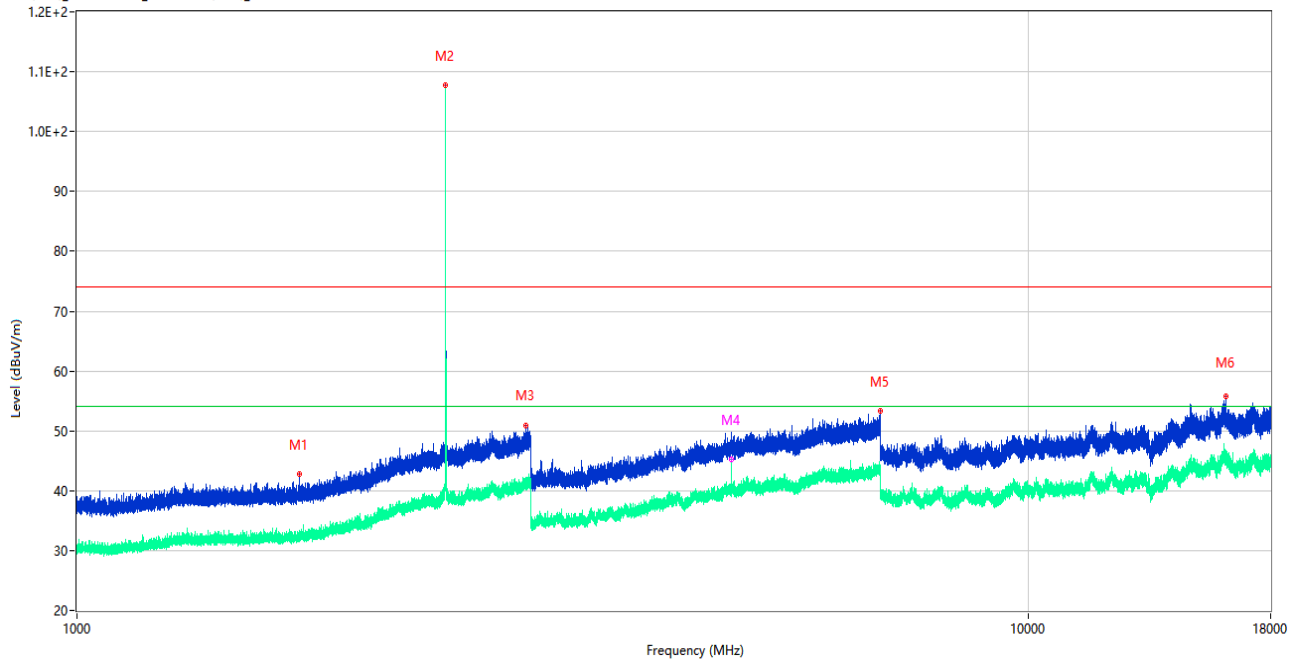
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1616.800	42.16	-17.73	74.0	31.84	Peak	63.00	100	Vertical	Pass
1**	1616.800	32.33	-17.73	54.0	21.67	AV	63.00	100	Vertical	Pass
2	2402.000	94.69	-13.35	74.0	-20.69	Peak	18.00	100	Vertical	N/A
2**	2402.000	93.72	-13.35	54.0	-39.72	AV	18.00	100	Vertical	N/A
3	2963.200	50.32	-10.42	74.0	23.68	Peak	270.00	200	Vertical	Pass
3**	2963.200	41.01	-10.42	54.0	12.99	AV	270.00	200	Vertical	Pass
4	4860.600	49.16	-3.52	74.0	24.84	Peak	242.00	300	Vertical	Pass
4**	4860.600	40.03	-3.52	54.0	13.97	AV	242.00	300	Vertical	Pass
5	6960.600	52.62	-0.54	74.0	21.38	Peak	171.00	200	Vertical	Pass
5**	6960.600	43.66	-0.54	54.0	10.34	AV	171.00	200	Vertical	Pass
6	17289.937	54.77	6.48	74.0	19.23	Peak	360.00	100	Vertical	Pass
6**	17289.937	45.59	6.48	54.0	8.41	AV	360.00	100	Vertical	Pass

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

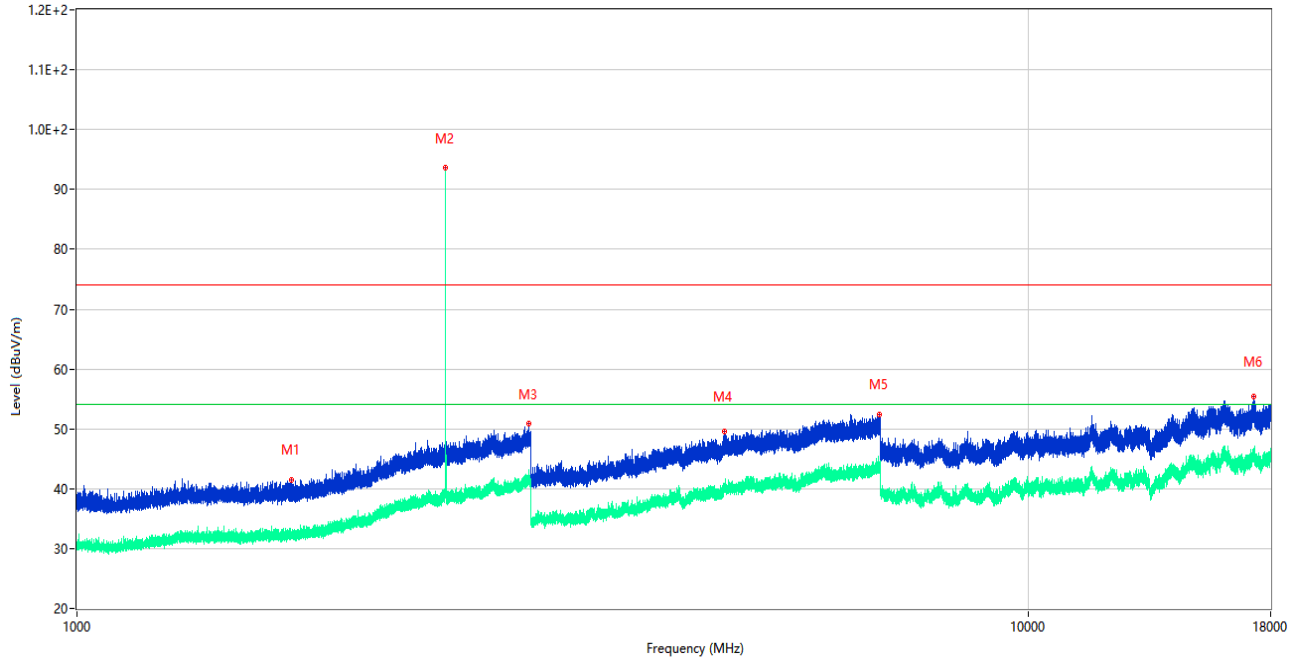
RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1715.600	42.76	-17.49	74.0	31.24	Peak	178.00	150	Horizontal	Pass
1**	1715.600	31.97	-17.49	54.0	22.03	AV	178.00	150	Horizontal	Pass
2	2440.900	107.73	-12.47	74.0	-33.73	Peak	276.00	200	Horizontal	N/A
2**	2440.900	106.72	-12.47	54.0	-52.72	AV	276.00	200	Horizontal	N/A
3	2964.700	50.91	-10.49	74.0	23.09	Peak	333.00	100	Horizontal	Pass
3**	2964.700	41.34	-10.49	54.0	12.66	AV	333.00	100	Horizontal	Pass
4	4882.600	49.19	-3.63	74.0	24.81	Peak	127.00	200	Horizontal	Pass
4**	4882.600	45.30	-3.63	54.0	8.70	AV	127.00	200	Horizontal	Pass
5	6993.600	53.32	-0.41	74.0	20.68	Peak	358.00	200	Horizontal	Pass
5**	6993.600	42.91	-0.41	54.0	11.09	AV	358.00	200	Horizontal	Pass
6	16136.776	55.76	6.73	74.0	18.24	Peak	179.00	100	Horizontal	Pass
6**	16136.776	45.41	6.73	54.0	8.59	AV	179.00	100	Horizontal	Pass

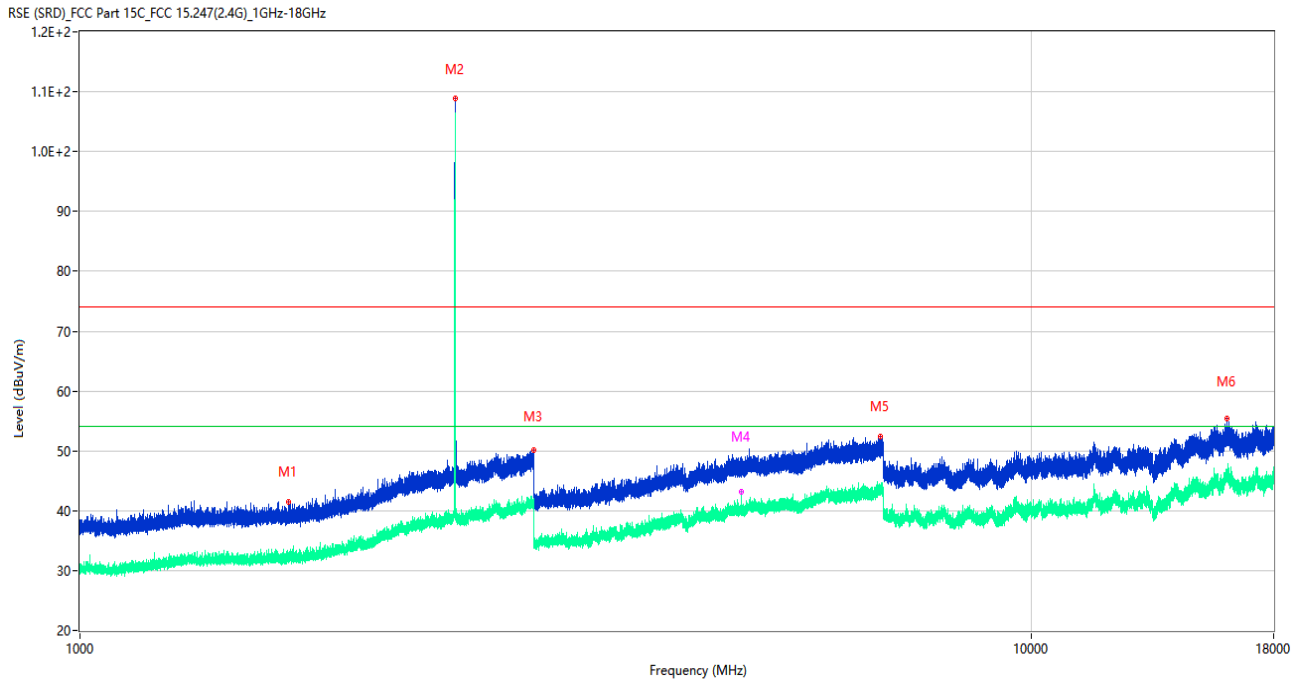
8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1680.100	41.54	-17.60	74.0	32.46	Peak	124.00	200	Vertical	Pass
1**	1680.100	32.57	-17.60	54.0	21.43	AV	124.00	200	Vertical	Pass
2	2441.200	93.61	-12.47	74.0	-19.61	Peak	45.00	100	Vertical	N/A
2**	2441.200	93.23	-12.47	54.0	-39.23	AV	45.00	100	Vertical	N/A
3	2989.600	50.81	-10.23	74.0	23.19	Peak	158.00	200	Vertical	Pass
3**	2989.600	41.28	-10.23	54.0	12.72	AV	158.00	200	Vertical	Pass
4	4792.600	49.55	-3.69	74.0	24.45	Peak	336.00	150	Vertical	Pass
4**	4792.600	39.44	-3.69	54.0	14.56	AV	336.00	150	Vertical	Pass
5	6984.600	52.39	-0.46	74.0	21.61	Peak	90.00	400	Vertical	Pass
5**	6984.600	43.31	-0.46	54.0	10.69	AV	90.00	400	Vertical	Pass
6	17280.487	55.33	6.42	74.0	18.67	Peak	180.00	100	Vertical	Pass
6**	17280.487	46.68	6.42	54.0	7.32	AV	180.00	100	Vertical	Pass

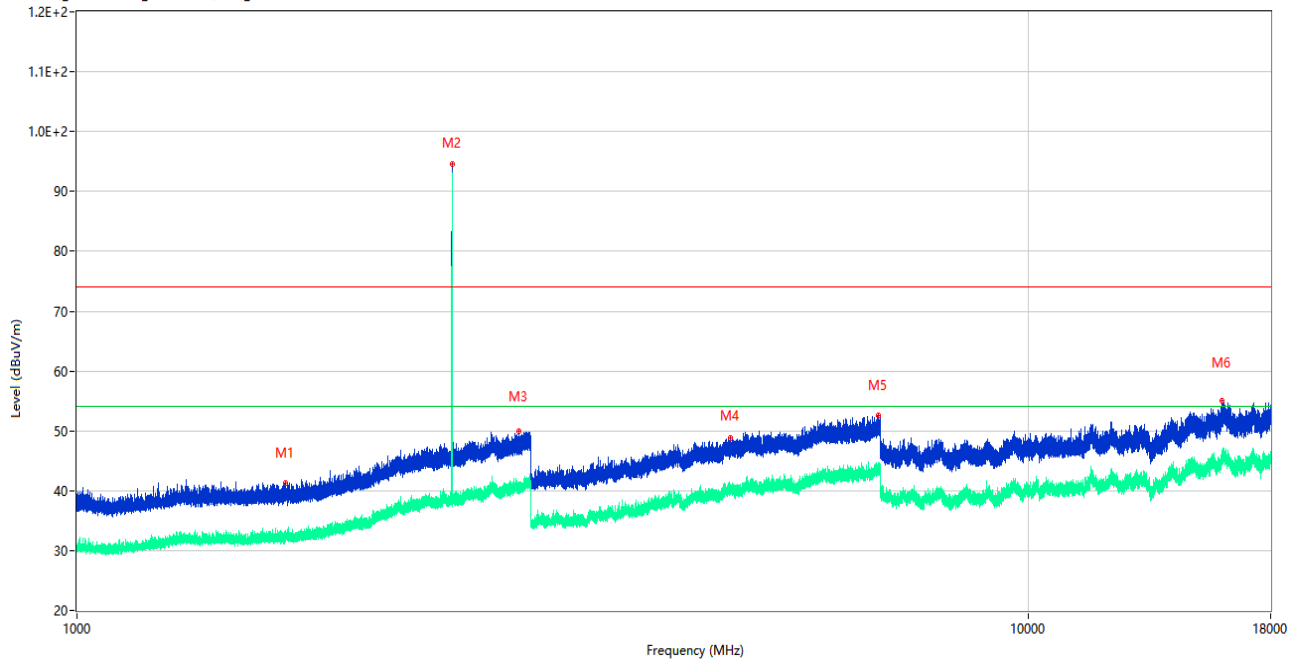
8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1656.500	41.56	-17.54	74.0	32.44	Peak	343.00	200	Horizontal	Pass
1**	1656.500	31.97	-17.54	54.0	22.03	AV	343.00	200	Horizontal	Pass
2	2480.100	108.86	-12.83	74.0	-34.86	Peak	289.00	200	Horizontal	N/A
2**	2480.100	106.14	-12.83	54.0	-52.14	AV	289.00	200	Horizontal	N/A
3	2998.200	50.16	-10.16	74.0	23.84	Peak	191.00	200	Horizontal	Pass
3**	2998.200	42.02	-10.16	54.0	11.98	AV	191.00	200	Horizontal	Pass
4	4959.800	48.85	-3.98	74.0	25.15	Peak	222.00	200	Horizontal	Pass
4**	4959.800	43.22	-3.98	54.0	10.78	AV	222.00	200	Horizontal	Pass
5	6941.600	52.41	-0.39	74.0	21.59	Peak	106.00	100	Horizontal	Pass
5**	6941.600	42.95	-0.39	54.0	11.05	AV	106.00	100	Horizontal	Pass
6	16090.050	55.38	6.89	74.0	18.62	Peak	250.00	400	Horizontal	Pass
6**	16090.050	45.98	6.89	54.0	8.02	AV	250.00	400	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

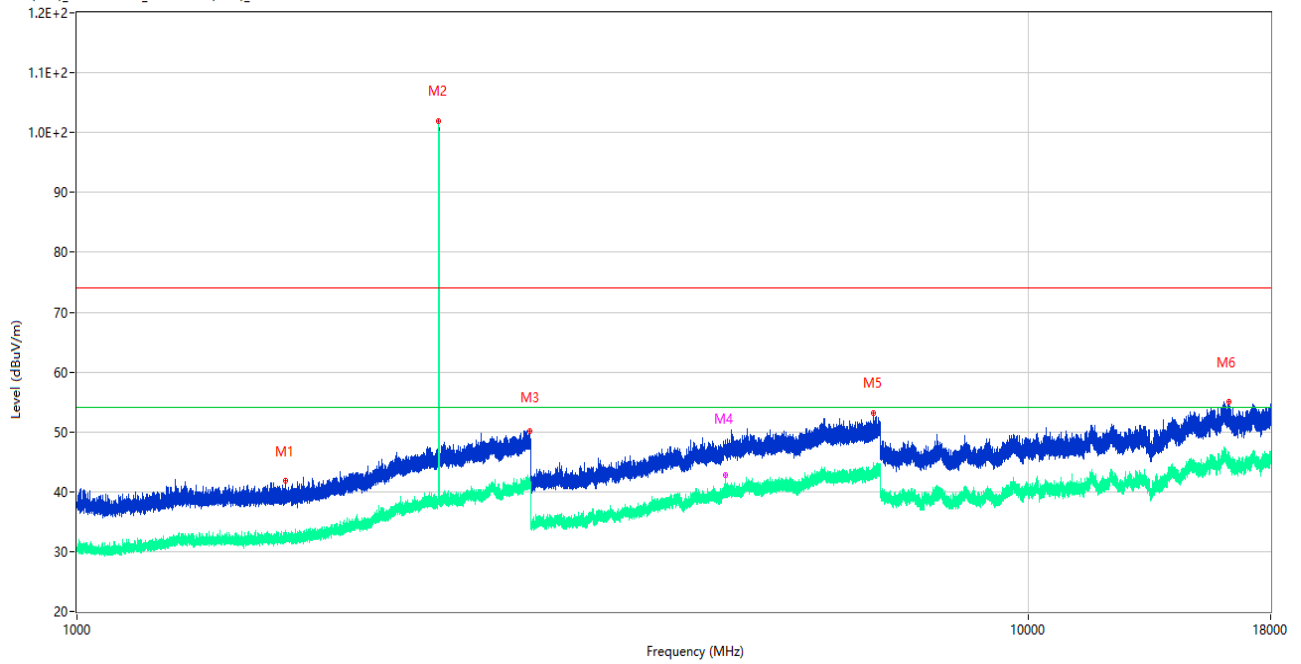


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1658.100	41.32	-17.50	74.0	32.68	Peak	286.00	300	Vertical	Pass
1**	1658.100	32.24	-17.50	54.0	21.76	AV	286.00	300	Vertical	Pass
2	2479.900	94.63	-12.83	74.0	-20.63	Peak	353.00	200	Vertical	N/A
2**	2479.900	91.90	-12.83	54.0	-37.90	AV	353.00	200	Vertical	N/A
3	2917.400	50.01	-10.43	74.0	23.99	Peak	360.00	150	Vertical	Pass
3**	2917.400	39.82	-10.43	54.0	14.18	AV	360.00	150	Vertical	Pass
4	4864.800	48.77	-3.56	74.0	25.23	Peak	249.00	400	Vertical	Pass
4**	4864.800	40.87	-3.56	54.0	13.13	AV	249.00	400	Vertical	Pass
5	6969.000	52.57	-0.44	74.0	21.43	Peak	315.00	400	Vertical	Pass
5**	6969.000	44.04	-0.44	54.0	9.96	AV	315.00	400	Vertical	Pass
6	16002.113	54.94	6.45	74.0	19.06	Peak	212.00	400	Vertical	Pass
6**	16002.113	45.14	6.45	54.0	8.86	AV	212.00	400	Vertical	Pass

ANT12

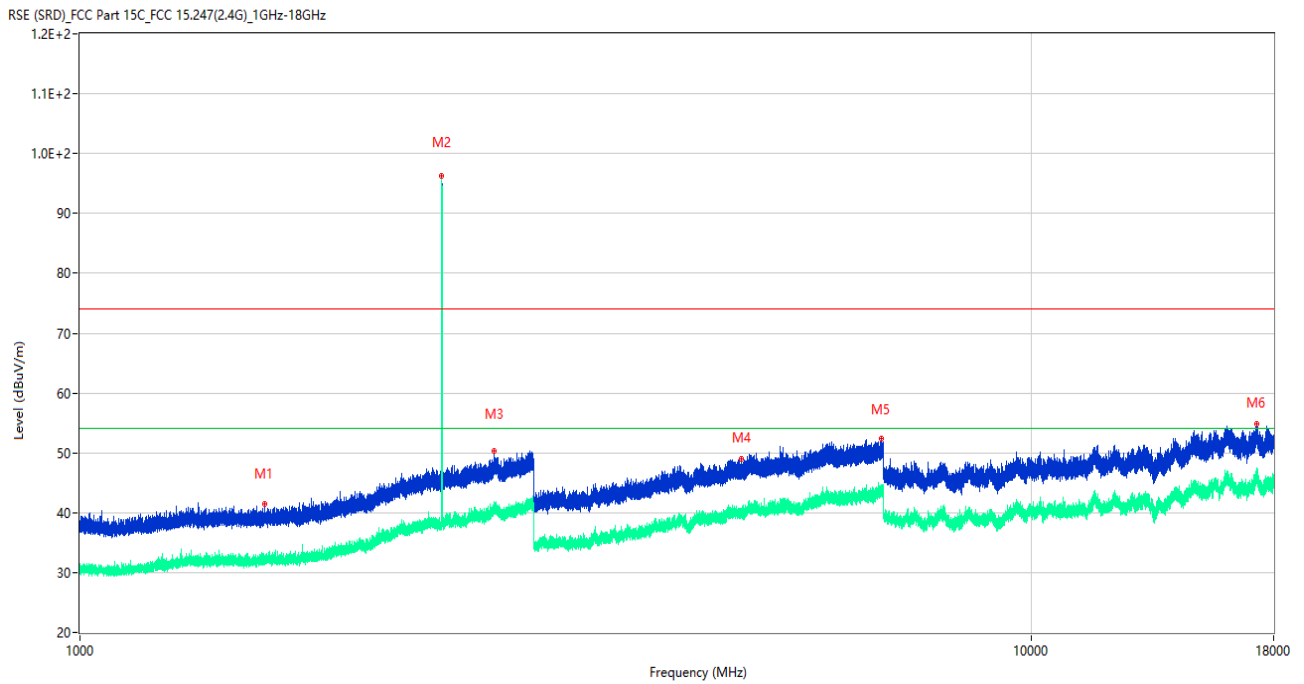
GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

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



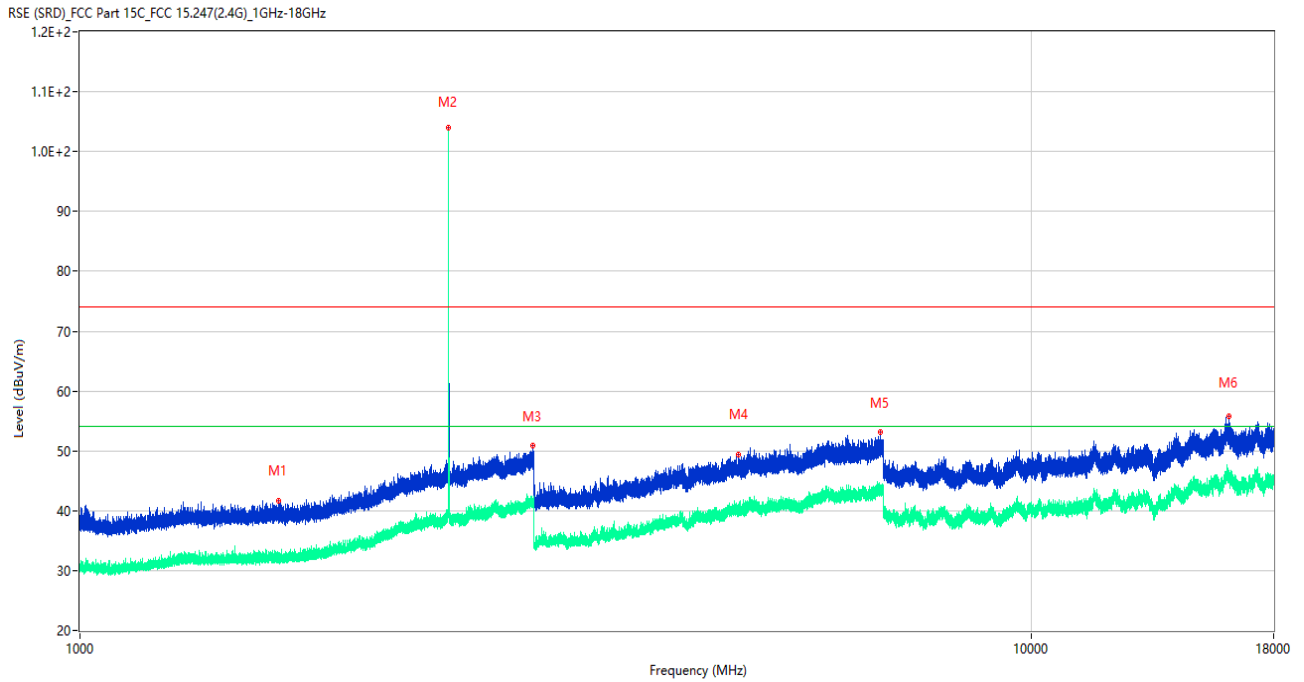
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1656.900	41.77	-17.52	74.0	32.23	Peak	67.00	400	Horizontal	Pass
1**	1656.900	31.86	-17.52	54.0	22.14	AV	67.00	400	Horizontal	Pass
2	2402.100	101.94	-13.34	74.0	-27.94	Peak	208.00	150	Horizontal	N/A
2**	2402.100	101.42	-13.34	54.0	-47.42	AV	208.00	150	Horizontal	N/A
3	2992.300	50.21	-10.19	74.0	23.79	Peak	151.00	200	Horizontal	Pass
3**	2992.300	40.77	-10.19	54.0	13.23	AV	151.00	200	Horizontal	Pass
4	4804.200	47.79	-3.48	74.0	26.21	Peak	276.00	150	Horizontal	Pass
4**	4804.200	42.71	-3.48	54.0	11.29	AV	276.00	150	Horizontal	Pass
5	6881.800	53.17	-0.69	74.0	20.83	Peak	172.00	200	Horizontal	Pass
5**	6881.800	43.58	-0.69	54.0	10.42	AV	172.00	200	Horizontal	Pass
6	16266.450	55.08	6.36	74.0	18.92	Peak	44.00	300	Horizontal	Pass
6**	16266.450	44.98	6.36	54.0	9.02	AV	44.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V



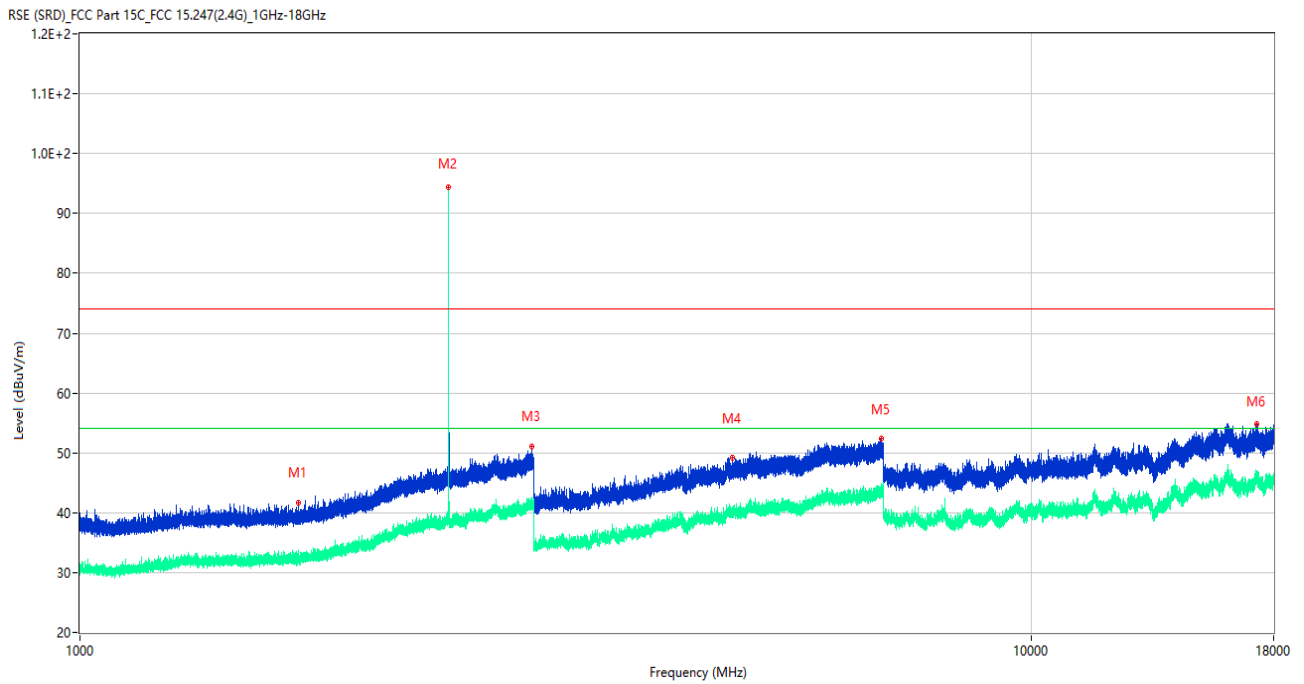
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1563.200	41.49	-17.65	74.0	32.51	Peak	89.00	400	Vertical	Pass
1**	1563.200	32.64	-17.65	54.0	21.36	AV	89.00	400	Vertical	Pass
2	2401.900	96.22	-13.35	74.0	-22.22	Peak	0.00	150	Vertical	N/A
2**	2401.900	95.41	-13.35	54.0	-41.41	AV	0.00	150	Vertical	N/A
3	2723.800	50.25	-10.82	74.0	23.75	Peak	298.00	200	Vertical	Pass
3**	2723.800	40.47	-10.82	54.0	13.53	AV	298.00	200	Vertical	Pass
4	4955.200	49.08	-3.95	74.0	24.92	Peak	203.00	400	Vertical	Pass
4**	4955.200	39.28	-3.95	54.0	14.72	AV	203.00	400	Vertical	Pass
5	6957.200	52.31	-0.57	74.0	21.69	Peak	305.00	200	Vertical	Pass
5**	6957.200	43.21	-0.57	54.0	10.79	AV	305.00	200	Vertical	Pass
6	17293.875	54.76	6.51	74.0	19.24	Peak	184.00	100	Vertical	Pass
6**	17293.875	46.38	6.51	54.0	7.62	AV	184.00	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



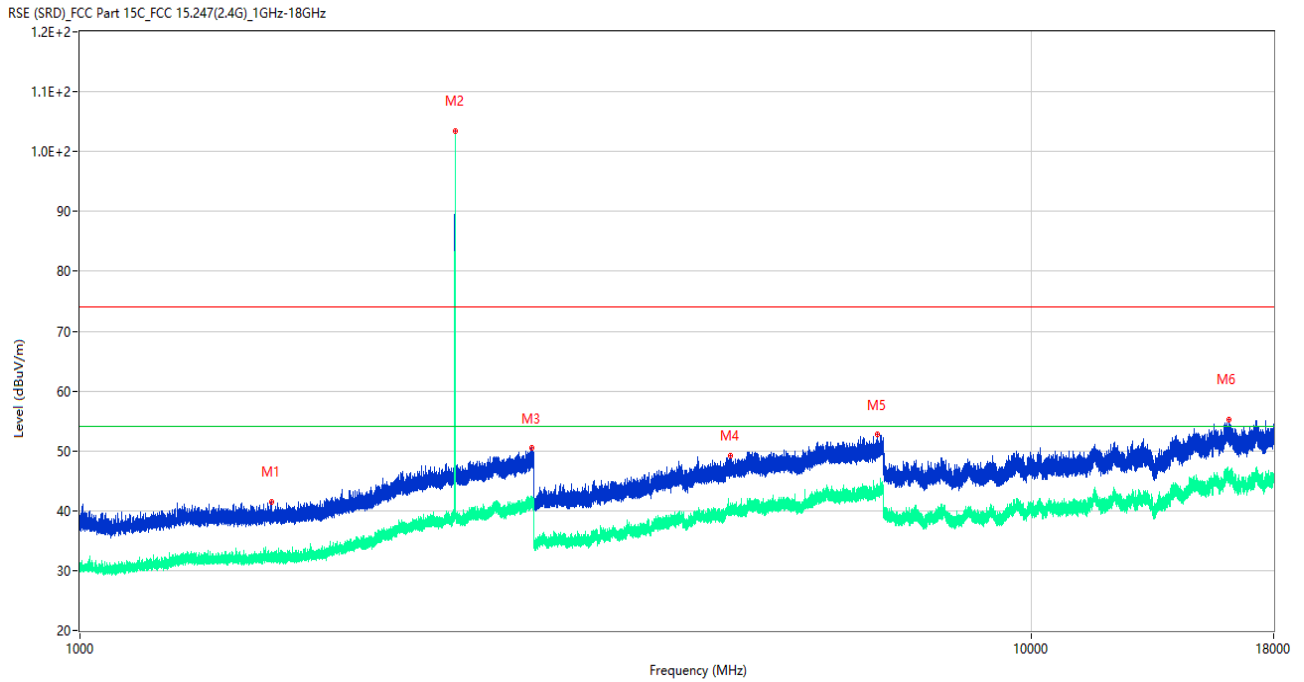
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1619.000	41.71	-17.69	74.0	32.29	Peak	324.00	300	Horizontal	Pass
1**	1619.000	31.93	-17.69	54.0	22.07	AV	324.00	300	Horizontal	Pass
2	2441.100	104.04	-12.47	74.0	-30.04	Peak	202.00	100	Horizontal	N/A
2**	2441.100	103.49	-12.47	54.0	-49.49	AV	202.00	100	Horizontal	N/A
3	2995.300	50.85	-10.09	74.0	23.15	Peak	27.00	100	Horizontal	Pass
3**	2995.300	41.34	-10.09	54.0	12.66	AV	27.00	100	Horizontal	Pass
4	4930.400	49.34	-3.83	74.0	24.66	Peak	272.00	100	Horizontal	Pass
4**	4930.400	39.74	-3.83	54.0	14.26	AV	272.00	100	Horizontal	Pass
5	6953.600	53.08	-0.54	74.0	20.92	Peak	279.00	300	Horizontal	Pass
5**	6953.600	43.29	-0.54	54.0	10.71	AV	279.00	300	Horizontal	Pass
6	16151.474	55.72	6.65	74.0	18.28	Peak	206.00	100	Horizontal	Pass
6**	16151.474	45.92	6.65	54.0	8.08	AV	206.00	100	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



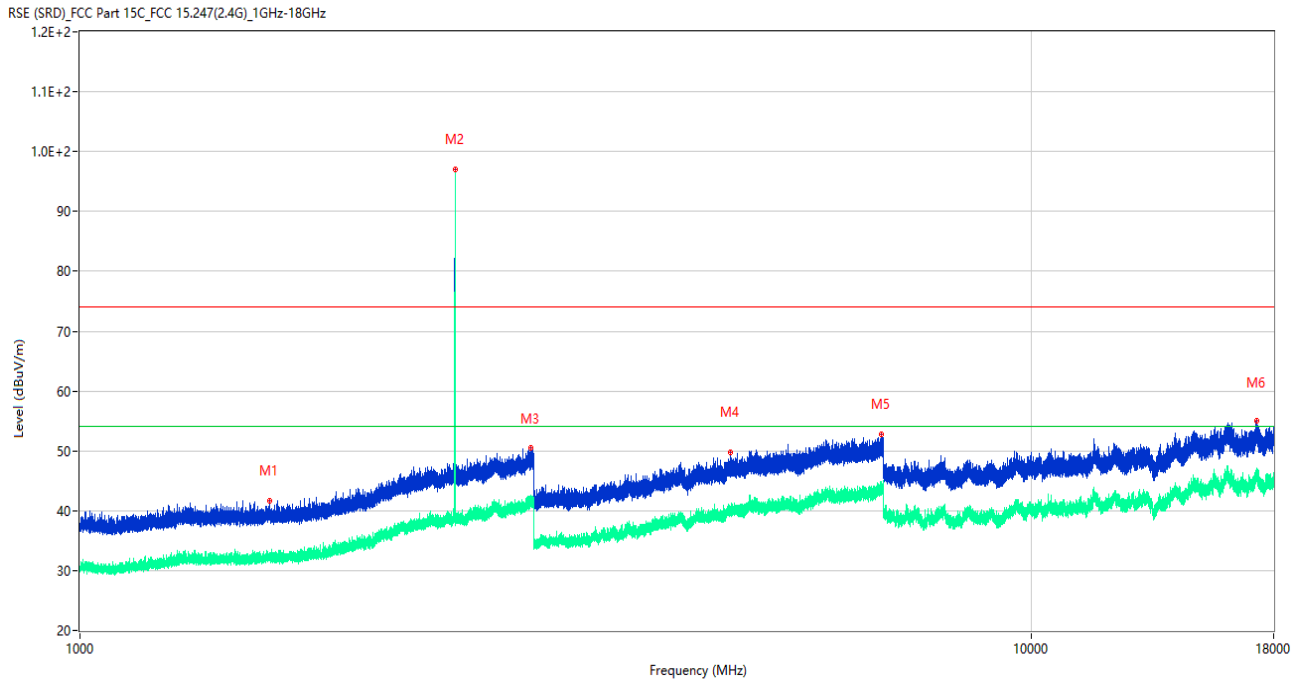
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1698.300	41.74	-17.68	74.0	32.26	Peak	285.00	400	Vertical	Pass
1**	1698.300	31.63	-17.68	54.0	22.37	AV	285.00	400	Vertical	Pass
2	2441.000	94.30	-12.47	74.0	-20.30	Peak	46.00	200	Vertical	N/A
2**	2441.000	93.71	-12.47	54.0	-39.71	AV	46.00	200	Vertical	N/A
3	2989.500	51.15	-10.22	74.0	22.85	Peak	324.00	150	Vertical	Pass
3**	2989.500	41.43	-10.22	54.0	12.57	AV	324.00	150	Vertical	Pass
4	4858.800	49.22	-3.52	74.0	24.78	Peak	360.00	200	Vertical	Pass
4**	4858.800	40.28	-3.52	54.0	13.72	AV	360.00	200	Vertical	Pass
5	6958.200	52.31	-0.55	74.0	21.69	Peak	5.00	200	Vertical	Pass
5**	6958.200	44.36	-0.55	54.0	9.64	AV	5.00	200	Vertical	Pass
6	17263.950	54.90	6.31	74.0	19.10	Peak	0.00	100	Vertical	Pass
6**	17263.950	45.52	6.31	54.0	8.48	AV	0.00	100	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H



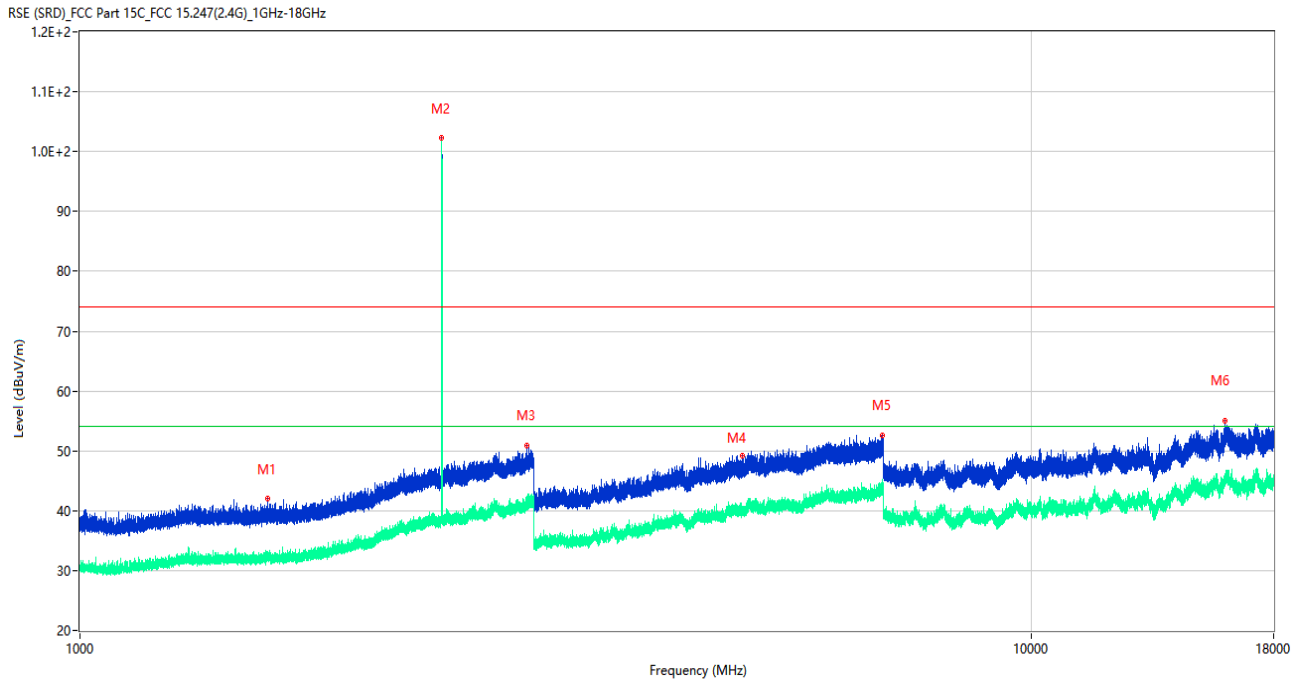
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1591.500	41.48	-17.79	74.0	32.52	Peak	40.00	300	Horizontal	Pass
1**	1591.500	31.78	-17.79	54.0	22.22	AV	40.00	300	Horizontal	Pass
2	2480.000	103.46	-12.83	74.0	-29.46	Peak	201.00	200	Horizontal	N/A
2**	2480.000	103.01	-12.83	54.0	-49.01	AV	201.00	200	Horizontal	N/A
3	2984.000	50.46	-10.21	74.0	23.54	Peak	210.00	150	Horizontal	Pass
3**	2984.000	40.92	-10.21	54.0	13.08	AV	210.00	150	Horizontal	Pass
4	4830.600	49.11	-3.62	74.0	24.89	Peak	166.00	200	Horizontal	Pass
4**	4830.600	40.19	-3.62	54.0	13.81	AV	166.00	200	Horizontal	Pass
5	6892.200	52.71	-0.54	74.0	21.29	Peak	360.00	200	Horizontal	Pass
5**	6892.200	42.63	-0.54	54.0	11.37	AV	360.00	200	Horizontal	Pass
6	16165.913	55.15	6.46	74.0	18.85	Peak	52.00	100	Horizontal	Pass
6**	16165.913	44.99	6.46	54.0	9.01	AV	52.00	100	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1581.200	41.74	-17.53	74.0	32.26	Peak	309.00	200	Vertical	Pass
1**	1581.200	32.25	-17.53	54.0	21.75	AV	309.00	200	Vertical	Pass
2	2480.000	97.05	-12.83	74.0	-23.05	Peak	309.00	200	Vertical	N/A
2**	2480.000	96.59	-12.83	54.0	-42.59	AV	309.00	200	Vertical	N/A
3	2978.700	50.43	-10.32	74.0	23.57	Peak	104.00	200	Vertical	Pass
3**	2978.700	41.48	-10.32	54.0	12.52	AV	104.00	200	Vertical	Pass
4	4831.800	49.80	-3.58	74.0	24.20	Peak	142.00	300	Vertical	Pass
4**	4831.800	39.89	-3.58	54.0	14.11	AV	142.00	300	Vertical	Pass
5	6958.200	52.83	-0.55	74.0	21.17	Peak	281.00	300	Vertical	Pass
5**	6958.200	43.05	-0.55	54.0	10.95	AV	281.00	300	Vertical	Pass
6	17299.386	54.97	6.55	74.0	19.03	Peak	7.00	400	Vertical	Pass
6**	17299.386	45.95	6.55	54.0	8.05	AV	7.00	400	Vertical	Pass

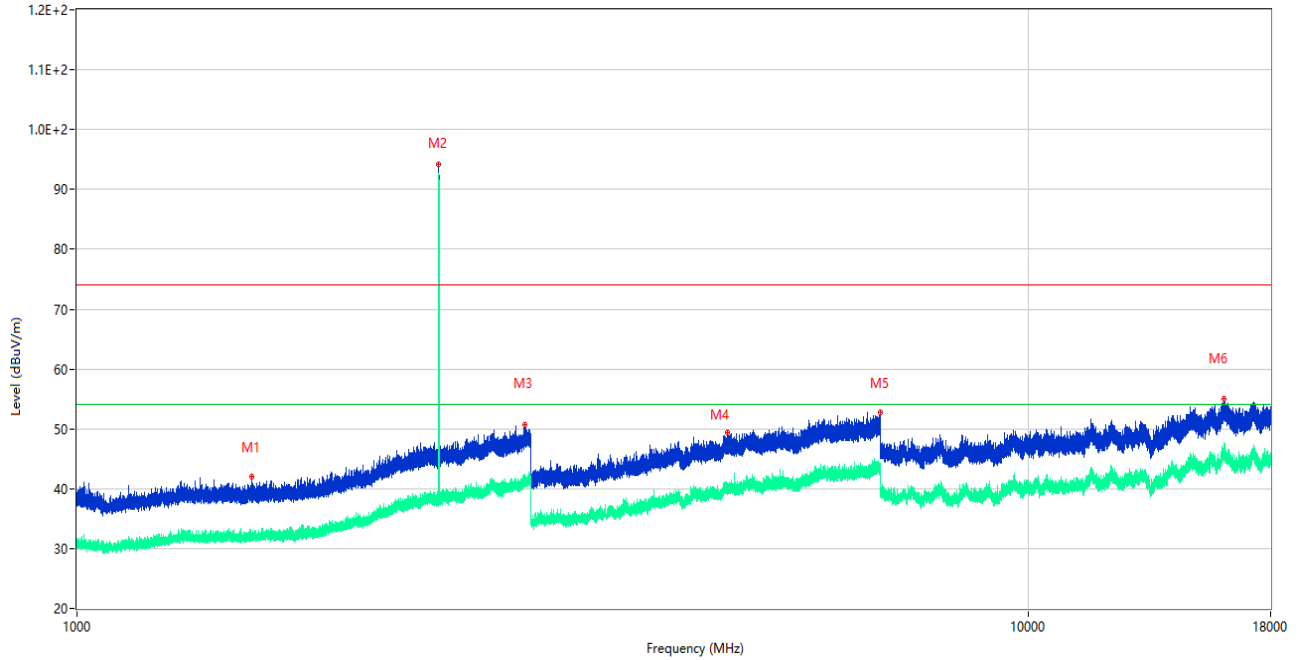
8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1575.000	41.98	-17.55	74.0	32.02	Peak	171.00	400	Horizontal	Pass
1**	1575.000	32.16	-17.55	54.0	21.84	AV	171.00	400	Horizontal	Pass
2	2402.200	102.25	-13.34	74.0	-28.25	Peak	103.00	100	Horizontal	N/A
2**	2402.200	101.75	-13.34	54.0	-47.75	AV	103.00	100	Horizontal	N/A
3	2952.900	50.92	-10.28	74.0	23.08	Peak	171.00	200	Horizontal	Pass
3**	2952.900	41.36	-10.28	54.0	12.64	AV	171.00	200	Horizontal	Pass
4	4973.200	49.25	-3.95	74.0	24.75	Peak	83.00	300	Horizontal	Pass
4**	4973.200	40.81	-3.95	54.0	13.19	AV	83.00	300	Horizontal	Pass
5	6971.200	52.60	-0.41	74.0	21.40	Peak	197.00	200	Horizontal	Pass
5**	6971.200	43.65	-0.41	54.0	10.35	AV	197.00	200	Horizontal	Pass
6	15992.925	55.01	6.36	74.0	18.99	Peak	294.00	100	Horizontal	Pass
6**	15992.925	44.35	6.36	54.0	9.65	AV	294.00	100	Horizontal	Pass

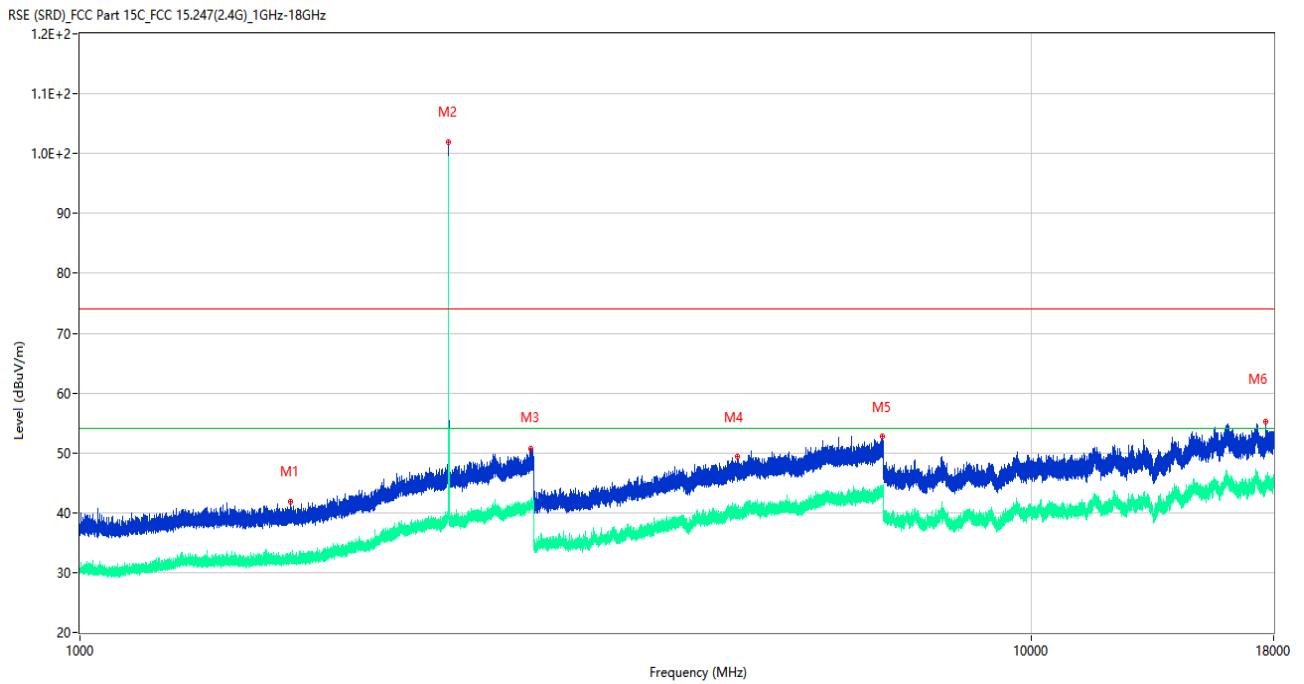
8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

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



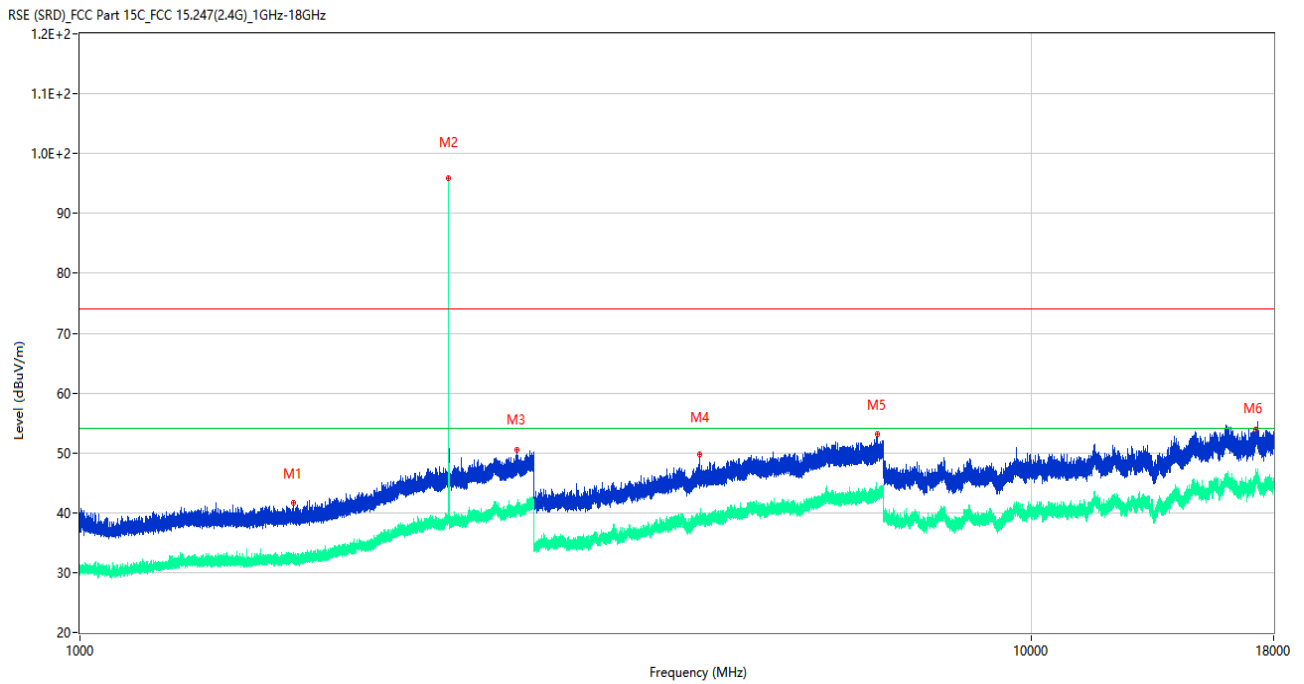
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1527.700	41.96	-17.73	74.0	32.04	Peak	341.00	300	Vertical	Pass
1**	1527.700	32.18	-17.73	54.0	21.82	AV	341.00	300	Vertical	Pass
2	2402.000	94.24	-13.35	74.0	-20.24	Peak	275.00	100	Vertical	N/A
2**	2402.000	92.68	-13.35	54.0	-38.68	AV	275.00	100	Vertical	N/A
3	2960.400	50.64	-10.41	74.0	23.36	Peak	93.00	150	Vertical	Pass
3**	2960.400	40.96	-10.41	54.0	13.04	AV	93.00	150	Vertical	Pass
4	4836.000	49.35	-3.63	74.0	24.65	Peak	149.00	200	Vertical	Pass
4**	4836.000	39.28	-3.63	54.0	14.72	AV	149.00	200	Vertical	Pass
5	6993.800	52.68	-0.42	74.0	21.32	Peak	0.00	100	Vertical	Pass
5**	6993.800	43.96	-0.42	54.0	10.04	AV	0.00	100	Vertical	Pass
6	16079.813	55.02	6.88	74.0	18.98	Peak	326.00	400	Vertical	Pass
6**	16079.813	46.51	6.88	54.0	7.49	AV	326.00	400	Vertical	Pass

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



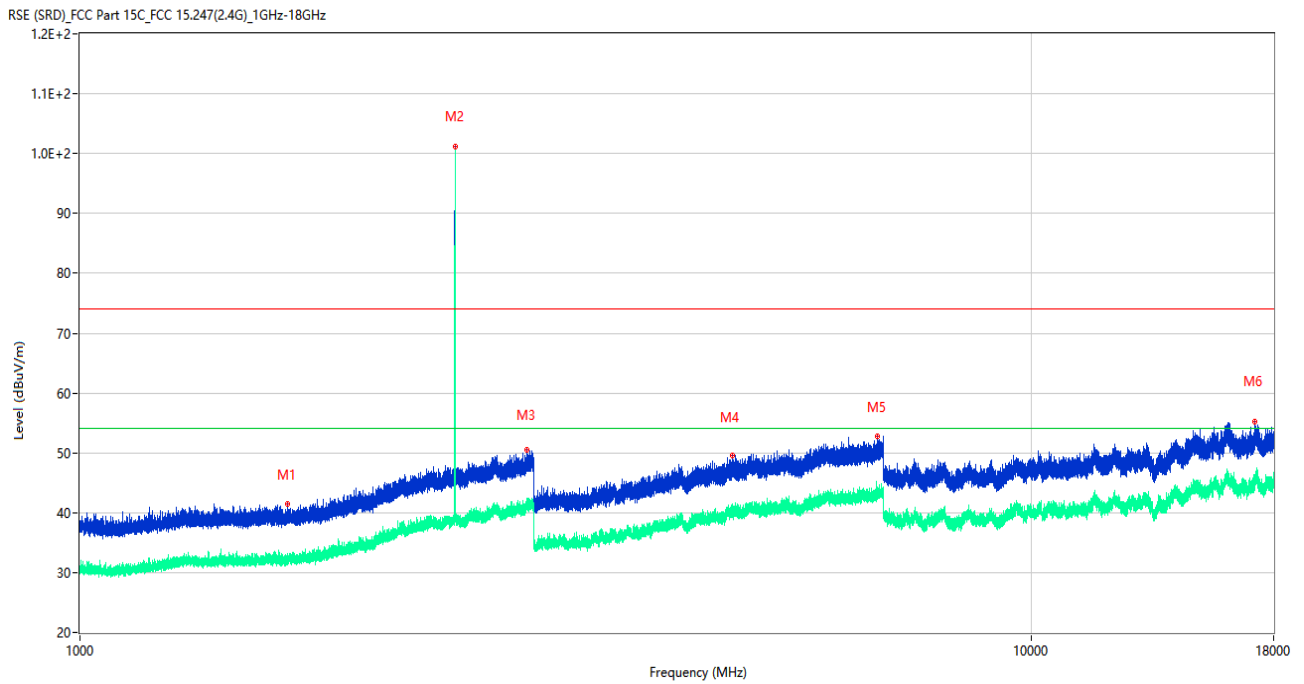
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1665.600	41.89	-17.38	74.0	32.11	Peak	135.00	200	Horizontal	Pass
1**	1665.600	32.07	-17.38	54.0	21.93	AV	135.00	200	Horizontal	Pass
2	2440.700	101.98	-12.46	74.0	-27.98	Peak	114.00	200	Horizontal	N/A
2**	2440.700	98.32	-12.46	54.0	-44.32	AV	114.00	200	Horizontal	N/A
3	2981.800	50.68	-10.27	74.0	23.32	Peak	157.00	100	Horizontal	Pass
3**	2981.800	42.20	-10.27	54.0	11.80	AV	157.00	100	Horizontal	Pass
4	4913.800	49.31	-3.71	74.0	24.69	Peak	40.00	100	Horizontal	Pass
4**	4913.800	40.11	-3.71	54.0	13.89	AV	40.00	100	Horizontal	Pass
5	6981.400	52.70	-0.47	74.0	21.30	Peak	213.00	400	Horizontal	Pass
5**	6981.400	44.11	-0.47	54.0	9.89	AV	213.00	400	Horizontal	Pass
6	17657.176	55.15	5.68	74.0	18.85	Peak	95.00	200	Horizontal	Pass
6**	17657.176	44.76	5.68	54.0	9.24	AV	95.00	200	Horizontal	Pass

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



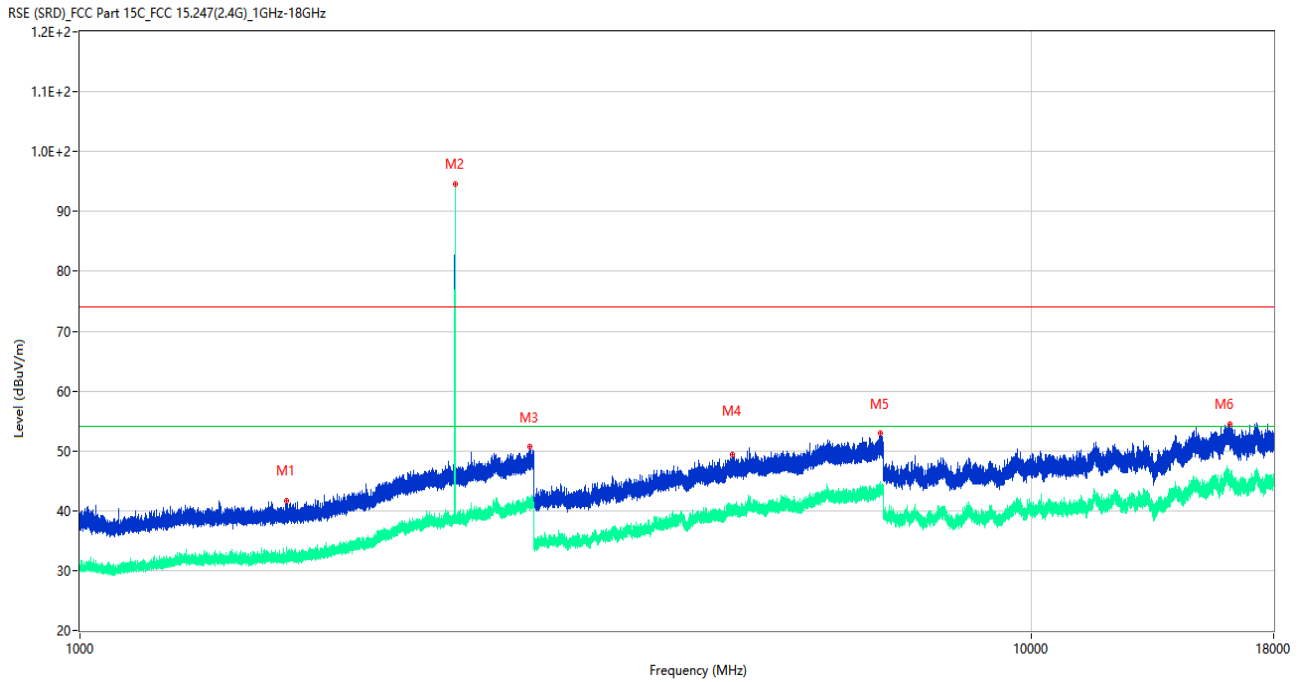
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1675.300	41.60	-17.55	74.0	32.40	Peak	33.00	100	Vertical	Pass
1**	1675.300	32.67	-17.55	54.0	21.33	AV	33.00	100	Vertical	Pass
2	2441.100	95.90	-12.47	74.0	-21.90	Peak	279.00	100	Vertical	N/A
2**	2441.100	95.38	-12.47	54.0	-41.38	AV	279.00	100	Vertical	N/A
3	2881.400	50.58	-10.12	74.0	23.42	Peak	157.00	100	Vertical	Pass
3**	2881.400	40.39	-10.12	54.0	13.61	AV	157.00	100	Vertical	Pass
4	4479.000	49.84	-3.96	74.0	24.16	Peak	60.00	150	Vertical	Pass
4**	4479.000	38.73	-3.96	54.0	15.27	AV	60.00	150	Vertical	Pass
5	6893.600	53.09	-0.50	74.0	20.91	Peak	360.00	200	Vertical	Pass
5**	6893.600	42.78	-0.50	54.0	11.22	AV	360.00	200	Vertical	Pass
6	17255.025	53.91	6.25	74.0	20.09	Peak	0.00	400	Vertical	Pass
6**	17255.025	44.66	6.25	54.0	9.34	AV	0.00	400	Vertical	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1654.500	41.44	-17.58	74.0	32.56	Peak	155.00	300	Horizontal	Pass
1**	1654.500	32.59	-17.58	54.0	21.41	AV	155.00	300	Horizontal	Pass
2	2480.100	101.22	-12.83	74.0	-27.22	Peak	94.00	200	Horizontal	N/A
2**	2480.100	100.66	-12.83	54.0	-46.66	AV	94.00	200	Horizontal	N/A
3	2949.600	50.54	-10.32	74.0	23.46	Peak	230.00	200	Horizontal	Pass
3**	2949.600	40.86	-10.32	54.0	13.14	AV	230.00	200	Horizontal	Pass
4	4857.800	49.60	-3.53	74.0	24.40	Peak	176.00	100	Horizontal	Pass
4**	4857.800	39.26	-3.53	54.0	14.74	AV	176.00	100	Horizontal	Pass
5	6898.000	52.72	-0.39	74.0	21.28	Peak	33.00	200	Horizontal	Pass
5**	6898.000	42.67	-0.39	54.0	11.33	AV	33.00	200	Horizontal	Pass
6	17207.775	55.18	6.03	74.0	18.82	Peak	326.00	300	Horizontal	Pass
6**	17207.775	45.74	6.03	54.0	8.26	AV	326.00	300	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1648.000	41.72	-17.75	74.0	32.28	Peak	306.00	400	Vertical	Pass
1**	1648.000	31.97	-17.75	54.0	22.03	AV	306.00	400	Vertical	Pass
2	2480.100	94.67	-12.83	74.0	-20.67	Peak	283.00	200	Vertical	N/A
2**	2480.100	93.60	-12.83	54.0	-39.60	AV	283.00	200	Vertical	N/A
3	2969.200	50.60	-10.52	74.0	23.40	Peak	142.00	100	Vertical	Pass
3**	2969.200	41.02	-10.52	54.0	12.98	AV	142.00	100	Vertical	Pass
4	4855.200	49.45	-3.43	74.0	24.55	Peak	11.00	100	Vertical	Pass
4**	4855.200	40.22	-3.43	54.0	13.78	AV	11.00	100	Vertical	Pass
5	6950.000	52.93	-0.47	74.0	21.07	Peak	119.00	300	Vertical	Pass
5**	6950.000	43.64	-0.47	54.0	10.36	AV	119.00	300	Vertical	Pass
6	16201.875	54.46	6.03	74.0	19.54	Peak	0.00	400	Vertical	Pass
6**	16201.875	44.33	6.03	54.0	9.67	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

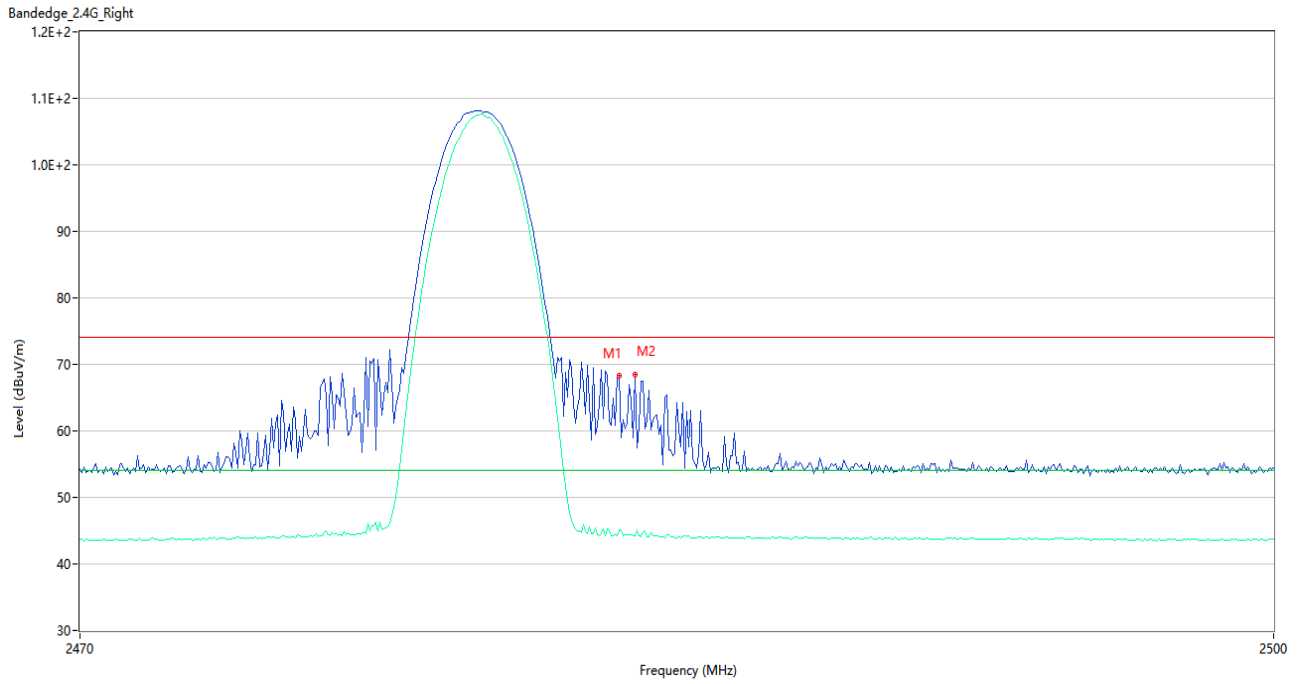
ANT14

GFSK LOW CHANNEL



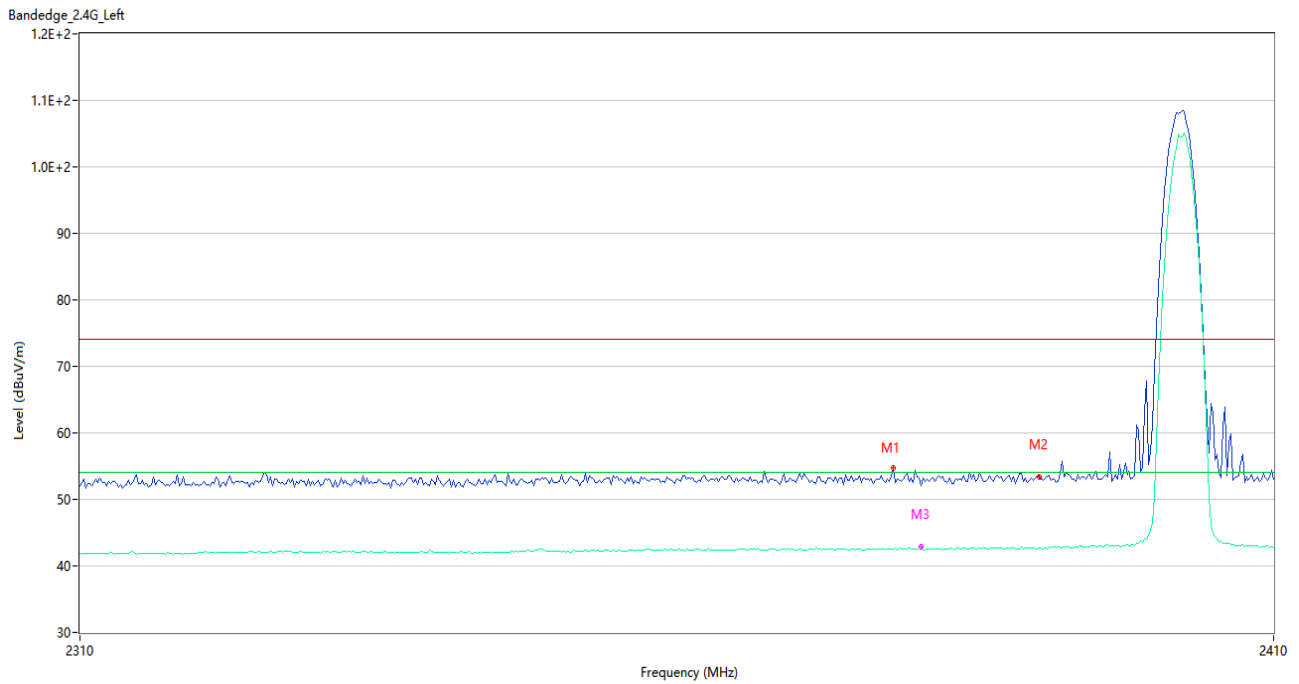
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.833	54.37	-2.23	74.0	19.63	Peak	200.00	100	Horizontal	Pass
1**	2384.833	42.63	-2.23	54.0	11.37	AV	200.00	100	Horizontal	Pass
2	2390.000	53.19	-2.35	74.0	20.81	Peak	179.00	200	Horizontal	Pass
2**	2390.000	42.80	-2.35	54.0	11.20	AV	179.00	200	Horizontal	Pass
3	2389.667	52.71	-2.34	74.0	21.29	Peak	262.00	150	Horizontal	Pass
3**	2389.667	43.07	-2.34	54.0	10.93	AV	262.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



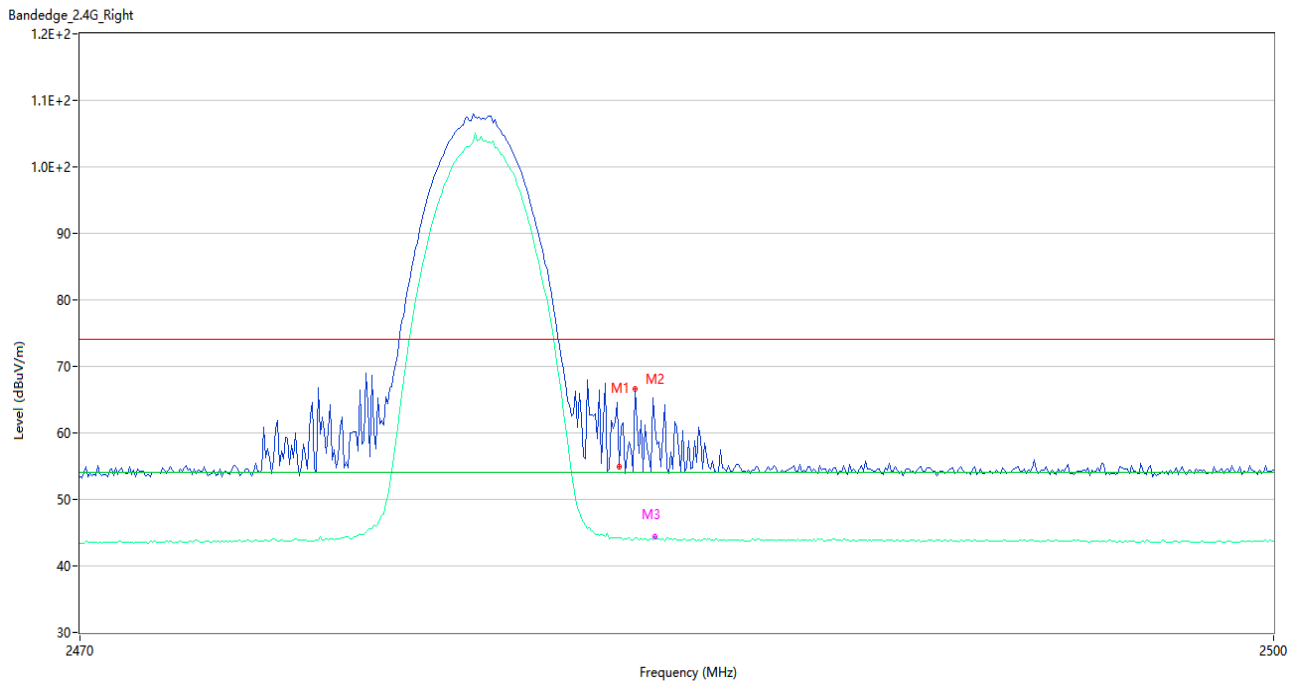
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	68.26	-0.86	74.0	5.74	Peak	4.00	150	Horizontal	Pass
1**	2483.500	45.08	-0.86	54.0	8.92	AV	4.00	150	Horizontal	Pass
2	2483.900	68.43	-0.85	74.0	5.57	Peak	9.00	100	Horizontal	Pass
2**	2483.900	44.25	-0.85	54.0	9.75	AV	9.00	100	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2377.667	54.72	-2.32	74.0	19.28	Peak	283.00	200	Horizontal	Pass
1**	2377.667	42.43	-2.32	54.0	11.57	AV	283.00	200	Horizontal	Pass
2	2390.000	53.33	-2.35	74.0	20.67	Peak	339.00	100	Horizontal	Pass
2**	2390.000	42.64	-2.35	54.0	11.36	AV	339.00	100	Horizontal	Pass
3	2380.000	52.12	-2.33	74.0	21.88	Peak	208.00	150	Horizontal	Pass
3**	2380.000	42.83	-2.33	54.0	11.17	AV	208.00	150	Horizontal	Pass

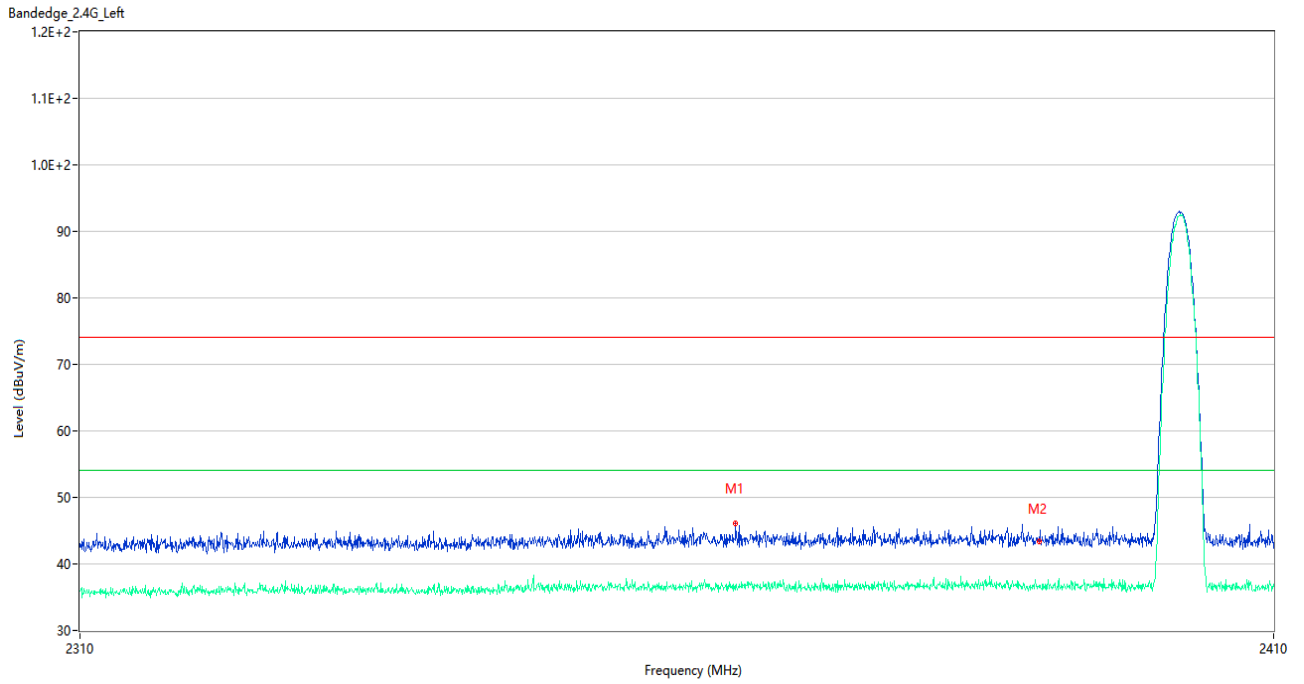
8-DPSK HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.00	-0.86	74.0	19.00	Peak	104.00	100	Horizontal	Pass
1**	2483.500	44.16	-0.86	54.0	9.84	AV	104.00	100	Horizontal	Pass
2	2483.900	66.59	-0.85	74.0	7.41	Peak	360.00	100	Horizontal	Pass
2**	2483.900	44.16	-0.85	54.0	9.84	AV	360.00	100	Horizontal	Pass
3	2484.400	60.97	-0.84	74.0	13.03	Peak	0.00	150	Horizontal	Pass
3**	2484.400	44.45	-0.84	54.0	9.55	AV	0.00	150	Horizontal	Pass

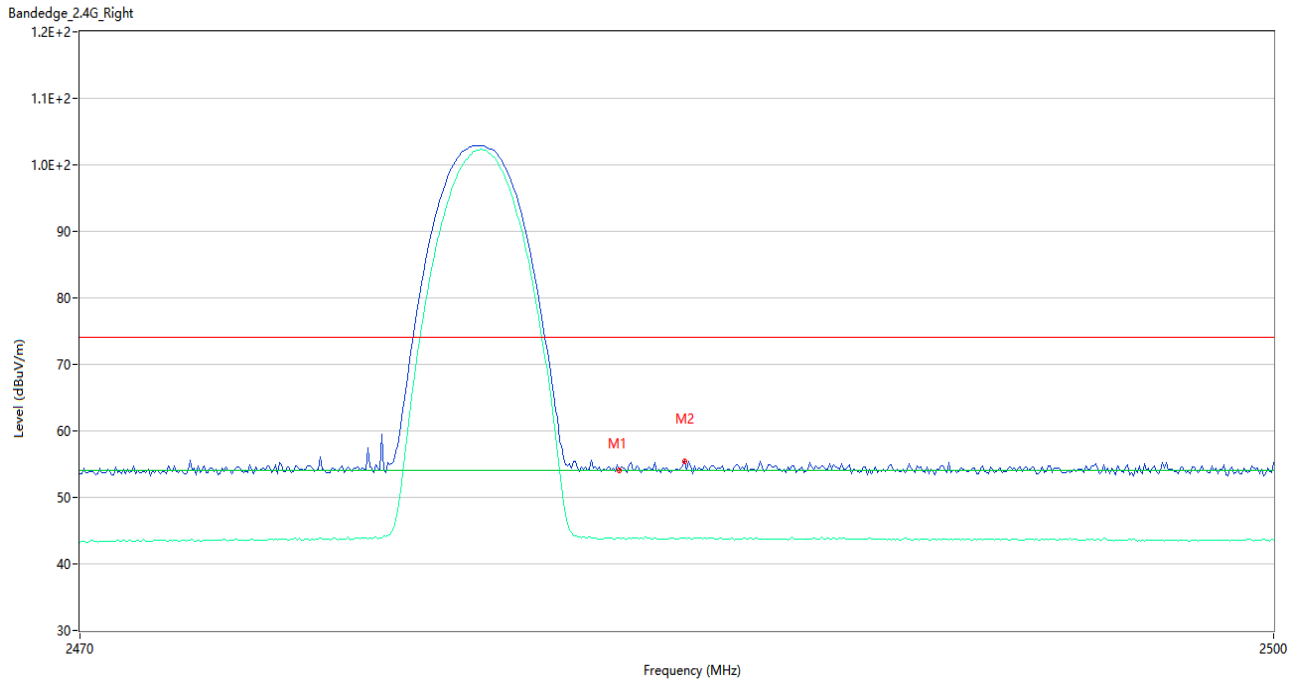
ANT12

GFSK LOW CHANNEL



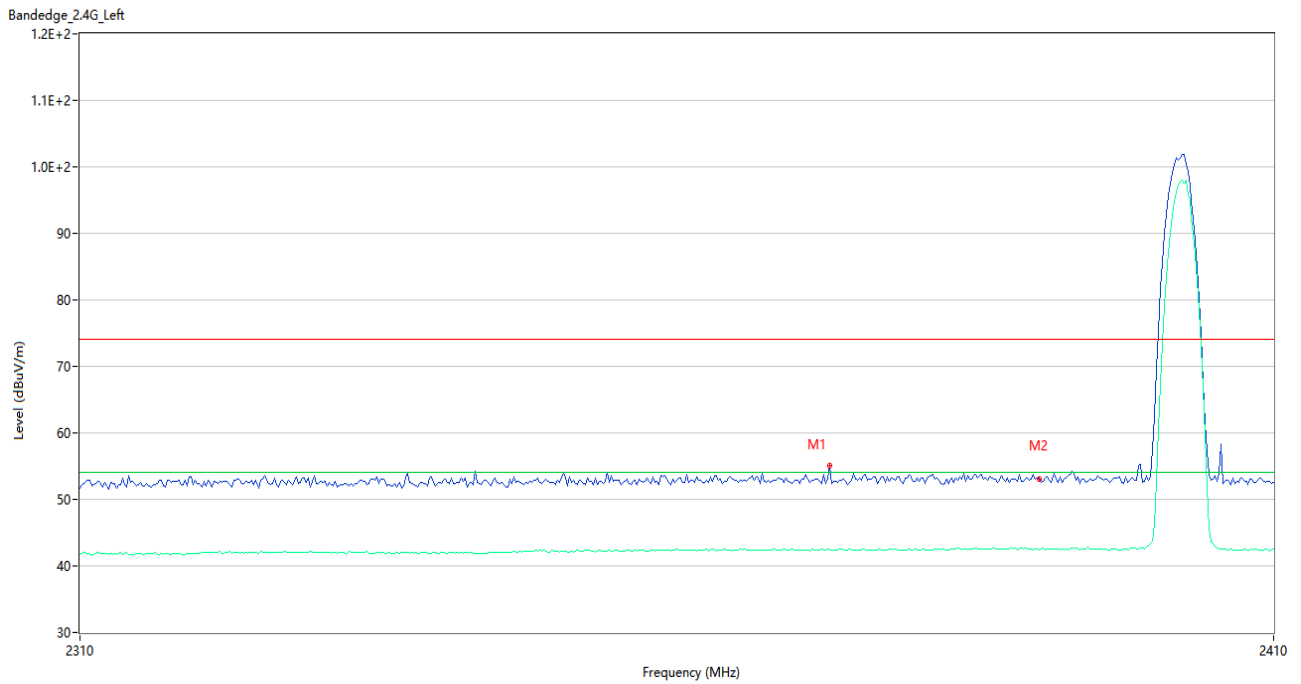
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2364.400	46.06	-14.36	74.0	27.94	Peak	359.00	100	Horizontal	Pass
1**	2364.400	36.80	-14.36	54.0	17.20	AV	359.00	100	Horizontal	Pass
2	2390.000	43.35	-14.35	74.0	30.65	Peak	332.00	150	Horizontal	Pass
2**	2390.000	36.82	-14.35	54.0	17.18	AV	332.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



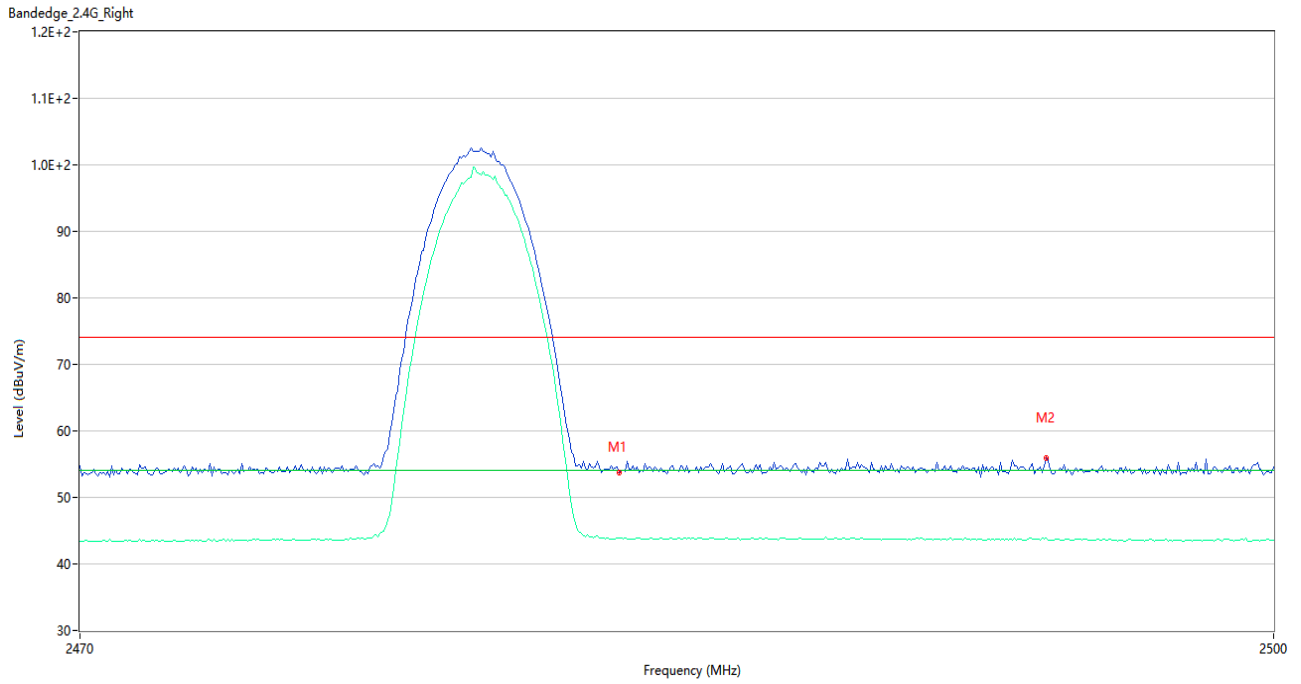
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.06	-0.86	74.0	19.94	Peak	252.00	150	Horizontal	Pass
1**	2483.500	43.96	-0.86	54.0	10.04	AV	252.00	150	Horizontal	Pass
2	2485.150	55.44	-0.84	74.0	18.56	Peak	21.00	150	Horizontal	Pass
2**	2485.150	43.82	-0.84	54.0	10.18	AV	21.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2372.333	55.15	-2.37	74.0	18.85	Peak	356.00	150	Horizontal	Pass
1**	2372.333	42.44	-2.37	54.0	11.56	AV	356.00	150	Horizontal	Pass
2	2390.000	53.13	-2.35	74.0	20.87	Peak	83.00	150	Horizontal	Pass
2**	2390.000	42.43	-2.35	54.0	11.57	AV	83.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.79	-0.86	74.0	20.21	Peak	280.00	200	Horizontal	Pass
1**	2483.500	43.84	-0.86	54.0	10.16	AV	280.00	200	Horizontal	Pass
2	2494.250	55.95	-0.86	74.0	18.05	Peak	110.00	150	Horizontal	Pass
2**	2494.250	43.83	-0.86	54.0	10.17	AV	110.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2391126-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2391126-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2391126-AI.PDF”.

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