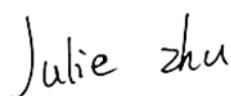
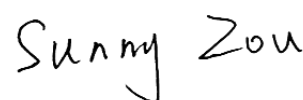


TEST REPORT

Applicant: REOLINK TECHNOLOGY PTE. LTD.
Address: 31 KAKI BUKIT ROAD 3, #06-02, TECHLINK,
SINGAPORE 417818
Equipment Type: WiFi module
Model Name: WXT0LR1201
Brand Name: Reolink
FCC ID: 2BN5S-2503B
ISED Number: 33667-2503B
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Jul. 11, 2025
Test Date: Aug. 04, 2025 - Aug. 23, 2025
Date of Issue: Sep. 02, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 02, 2025</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	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.2 Manufacturer Information

Manufacturer	REOLINK TECHNOLOGY PTE. LTD.
Address	31 KAKI BUKIT ROAD 3, #06-02, TECHLINK, SINGAPORE 417818

2.3 General Description for Equipment under Test (EUT)

EUT Name	WiFi module
Model Name Under Test	WXT0LR1201
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	2408210030000
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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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	Dipole Antenna				
Antenna Gain	<table border="1"> <tr> <td>Antenna A</td><td>3.05 dBi</td></tr> <tr> <td>Antenna B</td><td>2.77 dBi</td></tr> </table>	Antenna A	3.05 dBi	Antenna B	2.77 dBi
Antenna A	3.05 dBi				
Antenna B	2.77 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 3	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 Note ⁴
2	Number of Hopping Frequencies	15.247(a)	RSS-247, 5.1 (d)	Hopping Mode	ANNEX A.1	Pass	Note ² Note ⁴
3	Peak Output Power and E.I.R.P	15.247(b)	RSS-247, 5.4 (b)	Low/Middle/High	ANNEX A.2	Pass	Note ⁴
4	Occupied Bandwidth	15.247(a)	RSS-247, 5.1 (a)	Low/Middle/High	ANNEX A.3	Pass	Note ⁴
5	Carrier Frequency Separation	15.247(a)	RSS-247, 5.1 (b)	Hopping Mode	ANNEX A.4	Pass	Note ² Note ⁴
6	Time of Occupancy (Dwell time)	15.247(a)	RSS-247, 5.1 (d)	Hopping Mode	ANNEX A.5	Pass	Note ² Note ⁴
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 Note ⁴
8	Conducted Emission	15.207	RSS-GEN, 8.8	Low/Middle/High	ANNEX A.7	Pass	Note ² Note ⁴
9	Radiated Spurious Emission	15.209 15.247(d)	RSS-247, 5.5	Low/Middle/High	ANNEX A.8	Pass	Note ² Note ⁴
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	RSS-247, 5.5	Low/High	ANNEX A.9	Pass	Note ² Note ⁴
11	Receiver Spurious Emissions	--	RSS-Gen, 7.3	--	--	N/A	Note ³

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.

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.

Note ⁴: Compared with the EUT of test report BL-SZ24C0723-601, the EUT of this report shows different things as below:

1. Update antenna and antenna gain.

Other hardware circuit and software are the same as EUT referred to in test report BL-SZ24C0723-601.

Therefore, in addition to the above differences, just Conducted Emission & Radiated Spurious Emission & Band Edge(Restricted-band band-edge) were retested in this report, others test data and EUT information are derived from the report BL-SZ24C0723-601 published by Shenzhen BALUN Technology Co., Ltd. on Mar. 13, 2025.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	52% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+16.8℃ to +26.0℃
Working Voltage of the EUT	NV (Normal Voltage)	3.3V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2025.06.16	2026.06.15
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2025.06.17	2026.06.16
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2025.06.17	2026.06.16
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2025.06.16	2026.06.15
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2025.06.16	2026.06.15
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

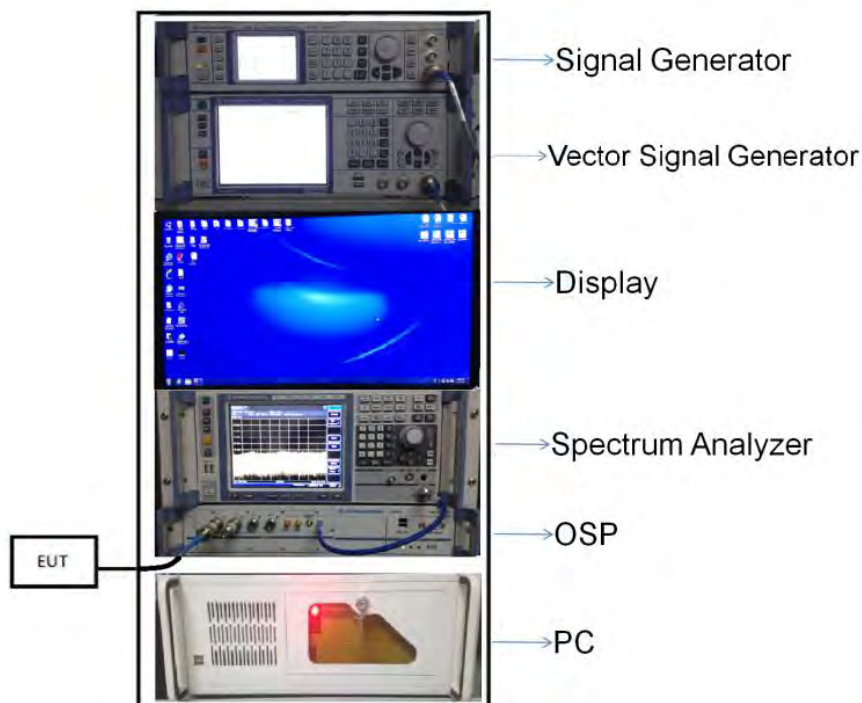
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

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

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



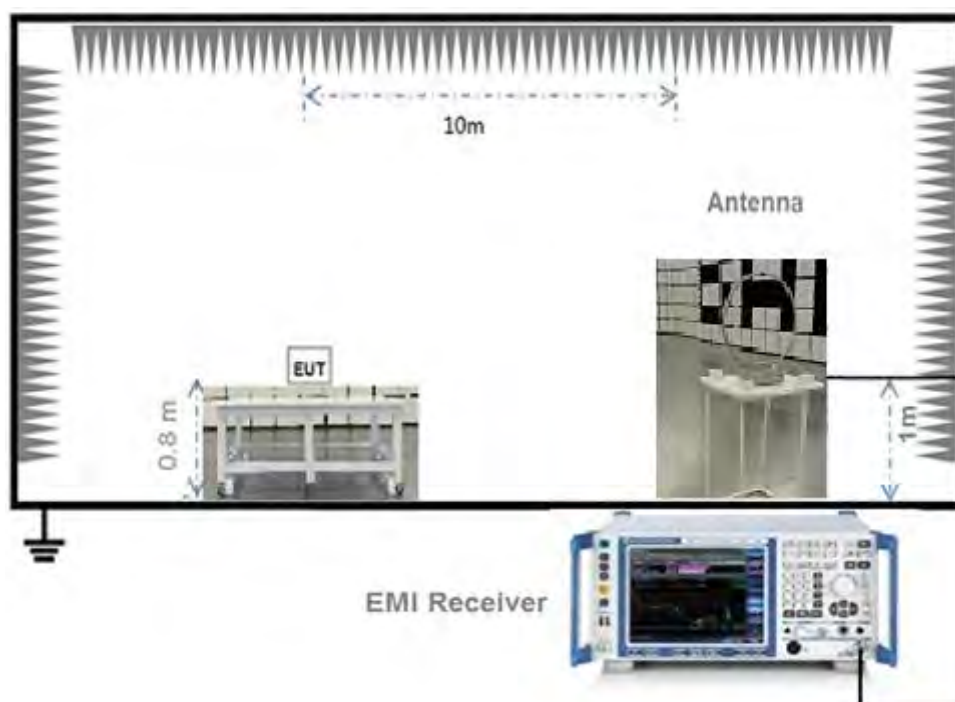
(Diagram 1)

4.5.2 For AC Power Supply Port Test



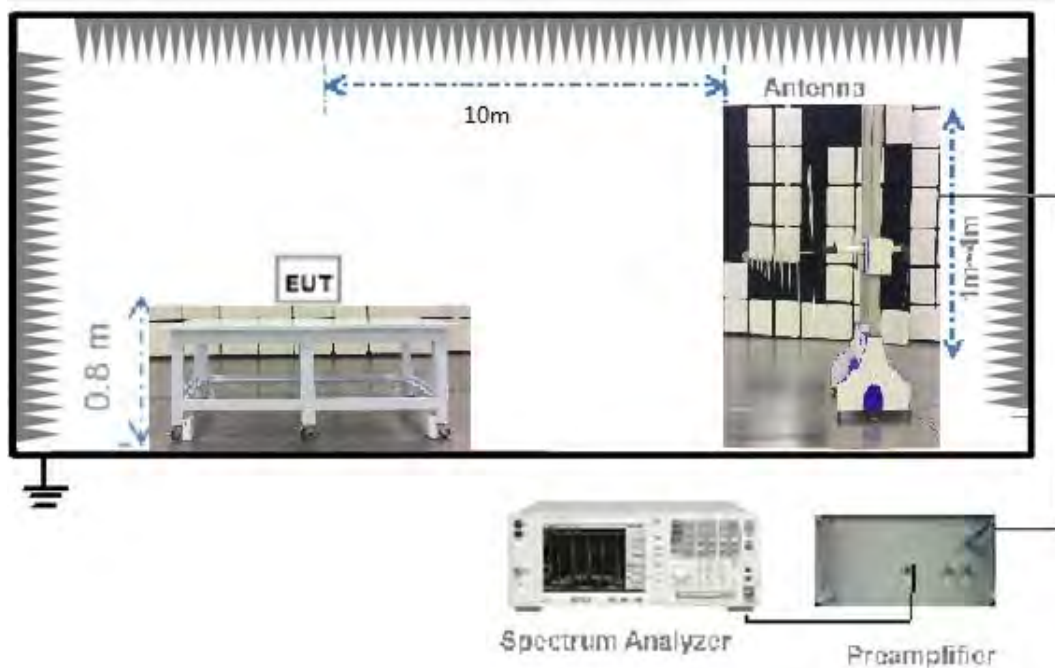
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



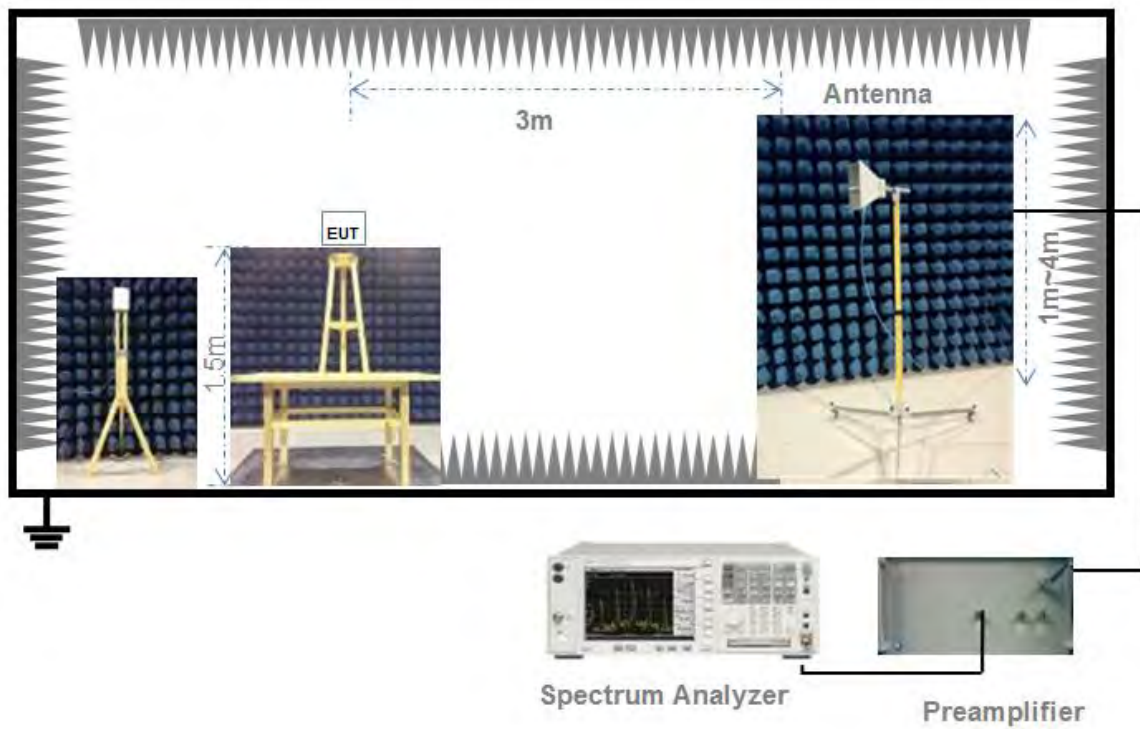
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b); 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.

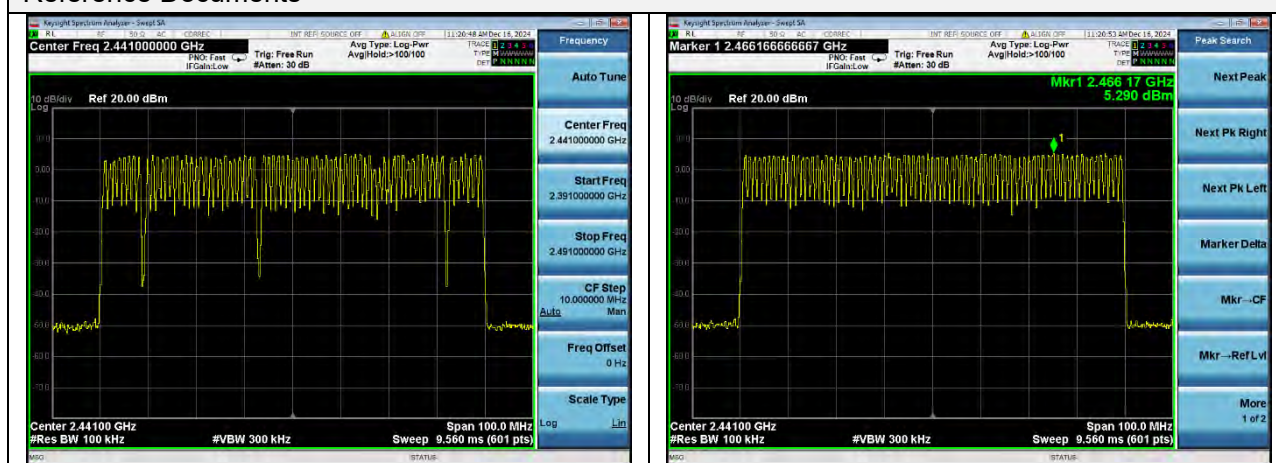
For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts,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

EIRP= Maximum peak conducted output power +Antenna Gain.

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

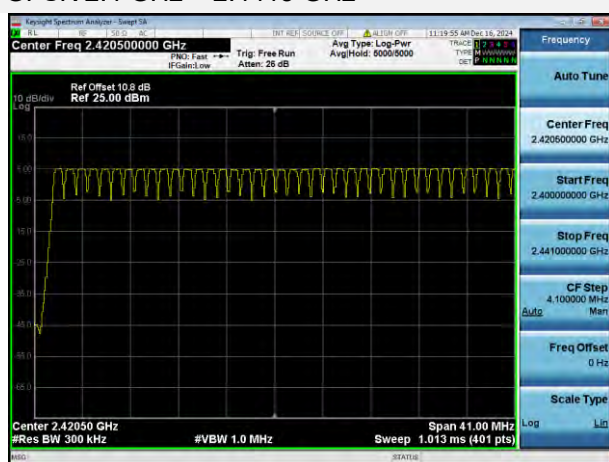
A.1 Number of Hopping Frequency

Test Data

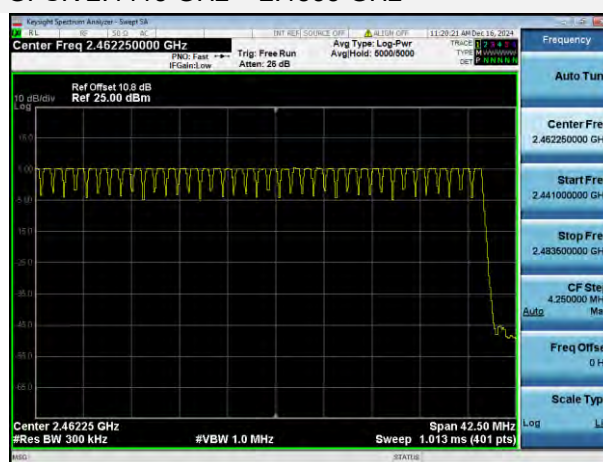
Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
GFSK	2400 - 2483.5	79	15	Pass
8-DPSK	2400 - 2483.5	79	15	Pass

Test Plots

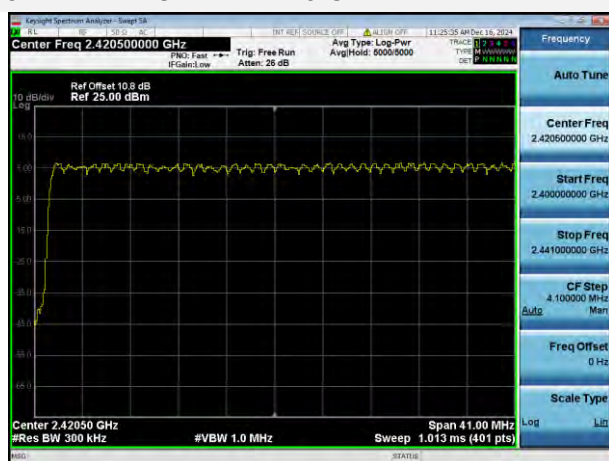
GFSK 2.4 GHz ~ 2.4415 GHz



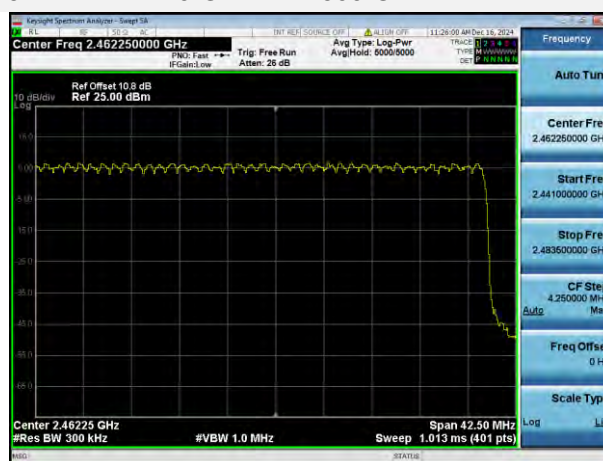
GFSK 2.4415 GHz ~ 2.4835 GHz



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	5.14	3.27	7.74	5.95	8.36	6.85	21	125	Pass
Middle	5.48	3.54	7.85	6.09	8.42	6.95			Pass
High	5.94	3.93	7.86	6.10	8.46	7.01			Pass

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

Antenna A

Antenna 1									
Channel	E.I.R.P						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	8.19	6.59	10.79	12.00	11.41	13.83	36	4000	Pass
Middle	8.53	7.14	10.90	12.30	11.47	14.03			Pass
High	8.99	7.93	10.91	12.32	11.51	14.14			Pass

Antenna B

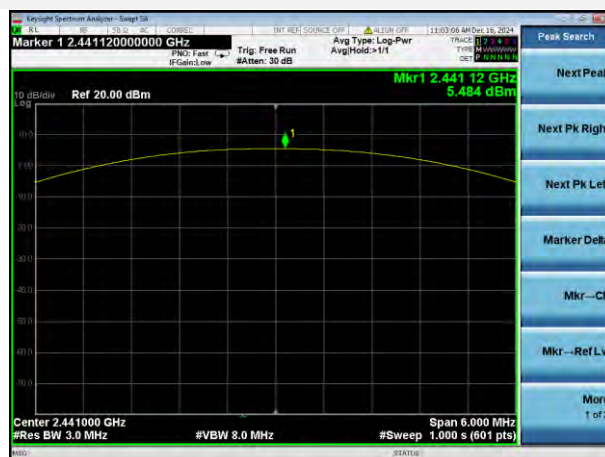
Channel	E.I.R.P						Limit		Verdict
	GFSK		$\pi/4$ -DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	7.91	6.18	10.51	11.25	11.13	12.97	36	4000	Pass
Middle	8.25	6.69	10.62	11.53	11.19	13.16			Pass
High	8.71	7.44	10.63	11.55	11.23	13.26			Pass

Test Plots

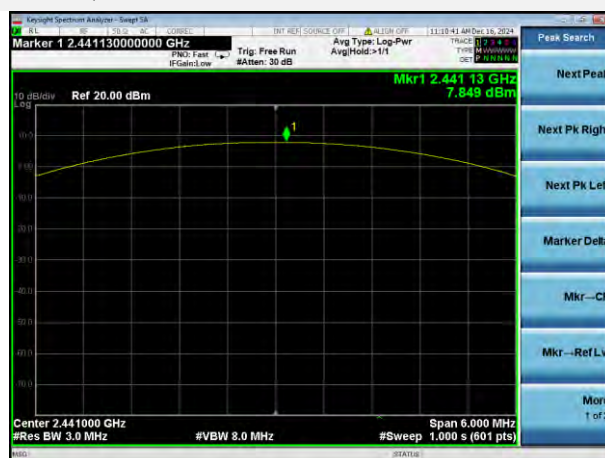
GFSK LOW CHANNEL



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	0.974854	0.898908
Middle	0.974854	0.898923
High	0.967529	0.873682
$\pi/4$ -DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.289795	1.161000
Middle	1.289795	1.160946
High	1.289795	1.162917
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.297607	1.164387
Middle	1.297607	1.165805
High	1.297607	1.166043

Test Plots

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

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

$\pi/4$ -DQPSK HIGH CHANNEL

8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



99% Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL

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

$\pi/4$ -DQPSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



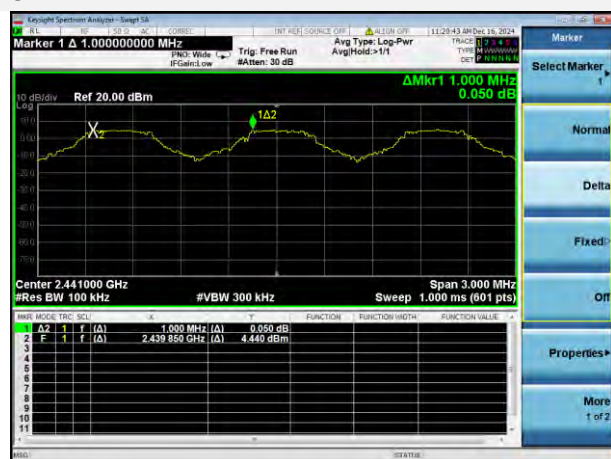
A.4 Hopping Frequency Separation

Test Data

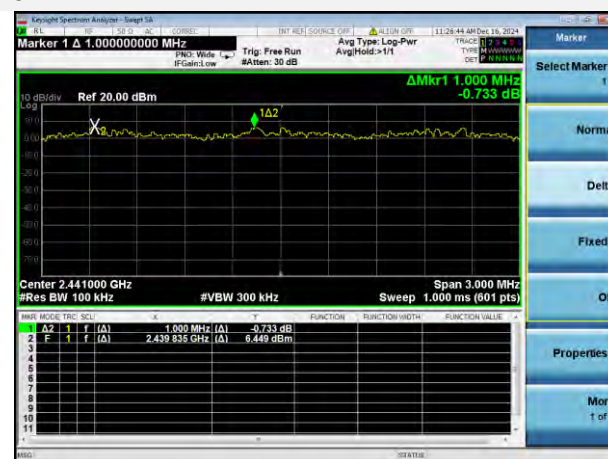
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.000	0.650	Pass
8-DPSK	1.000	0.865	Pass

Test Plots

GFSK



8-DPSK



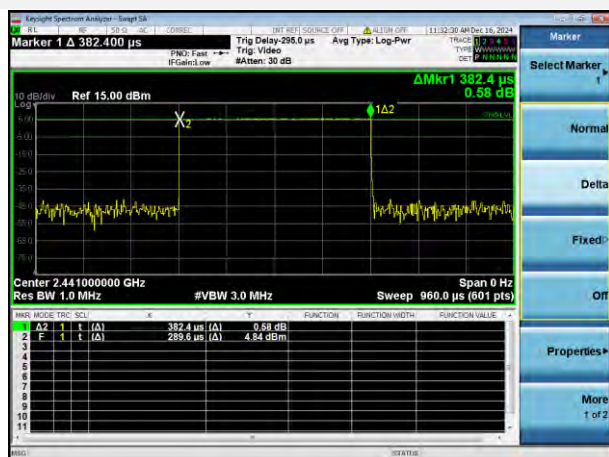
A.5 Average Time of Occupancy

Test Data

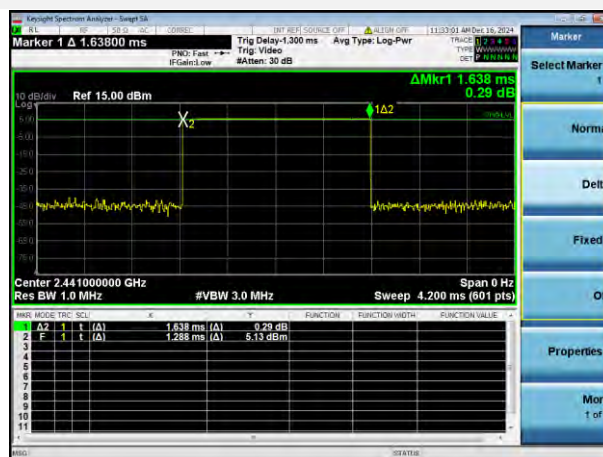
GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	122.368	0.4	Pass
DH 3	1.63800	262.080	0.4	Pass
DH 5	2.89200	308.480	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
3DH 1	0.39040	124.928	0.4	Pass
3DH 3	1.63800	262.080	0.4	Pass
3DH 5	2.89200	308.480	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38240	61.184	0.4	Pass
DH 3	1.63800	131.040	0.4	Pass
DH 5	2.89200	154.240	0.4	Pass

Test Plots

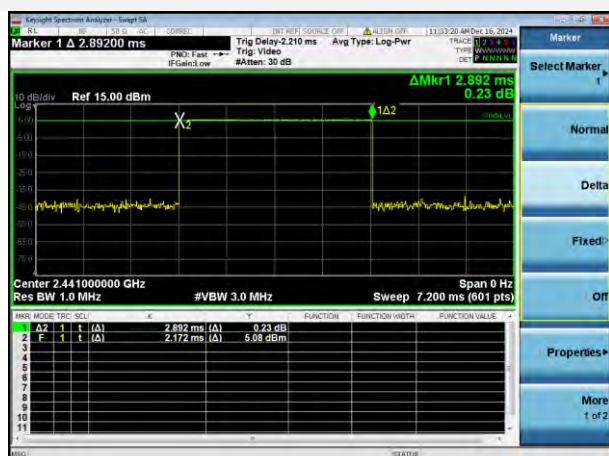
GFSK DH1



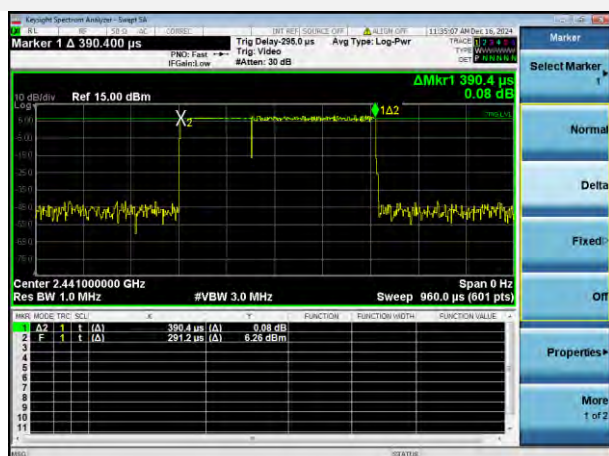
GFSK DH3



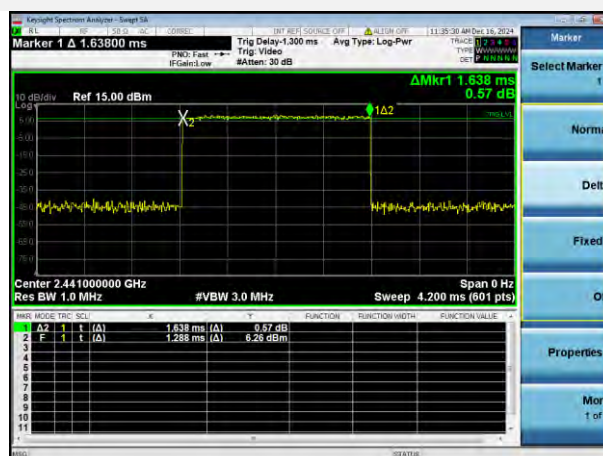
GFSK DH5



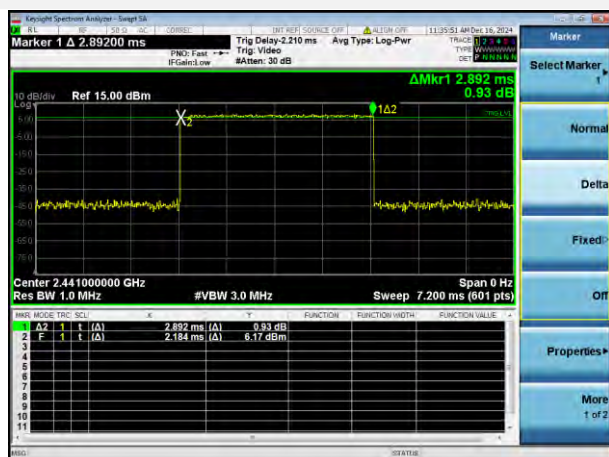
8-DPSK 3DH1



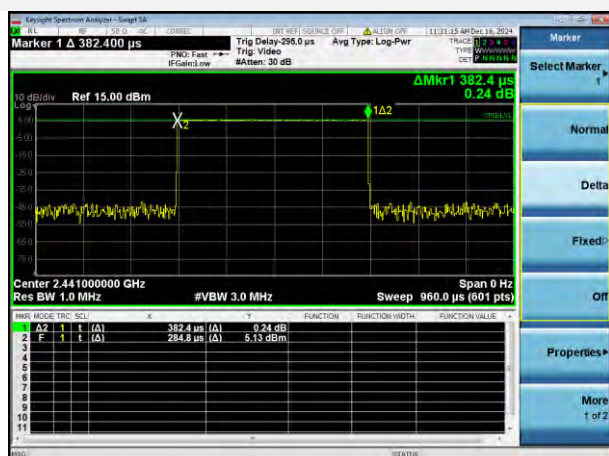
8-DPSK 3DH3



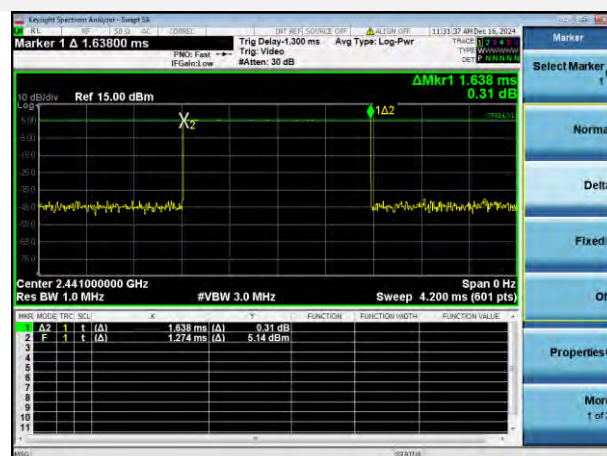
8-DPSK 3DH5



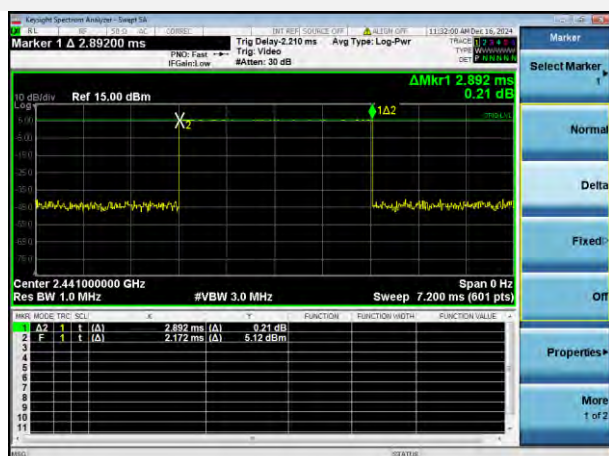
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.36	4.79	-15.21	Pass
Middle	-37.31	5.19	-14.81	Pass
High	-37.68	5.76	-14.24	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.23	6.22	-13.78	Pass
Middle	-37.71	6.28	-13.72	Pass
High	-37.77	6.29	-13.71	Pass

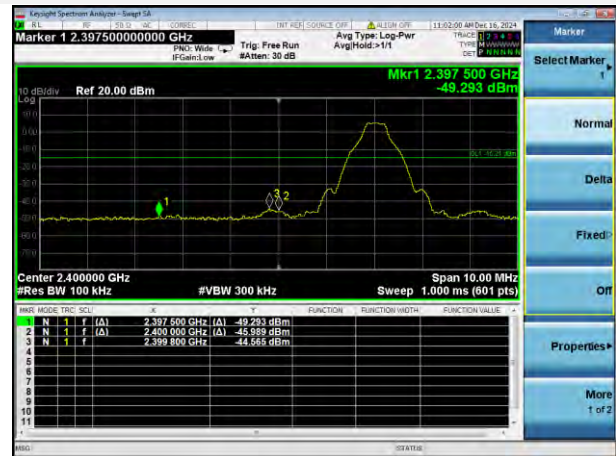
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-37.17	5.29	-14.71	Pass
8-DPSK	-37.18	6.50	-13.50	Pass

Test Plots

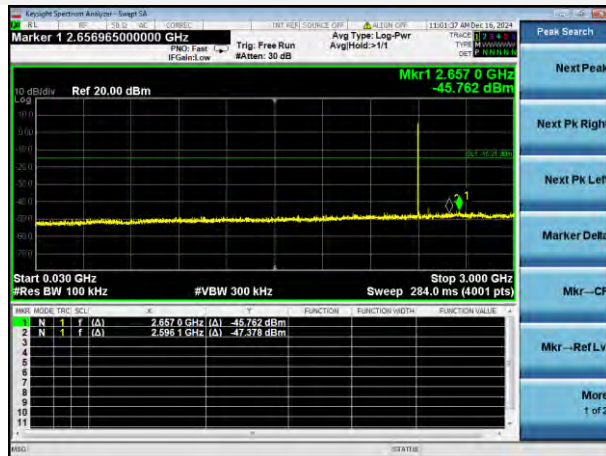
GFSK LOW CHANNEL, CARRIER LEVEL



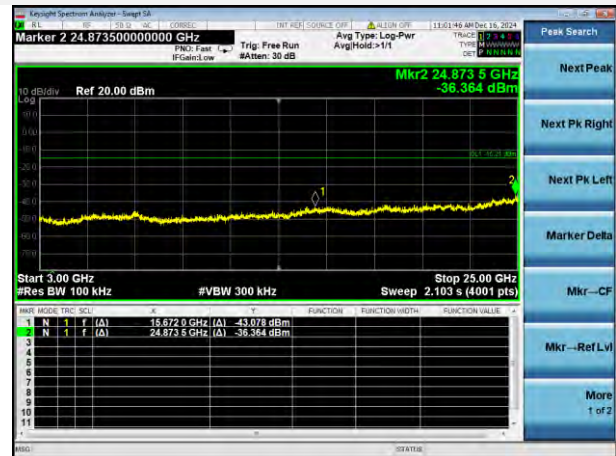
GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



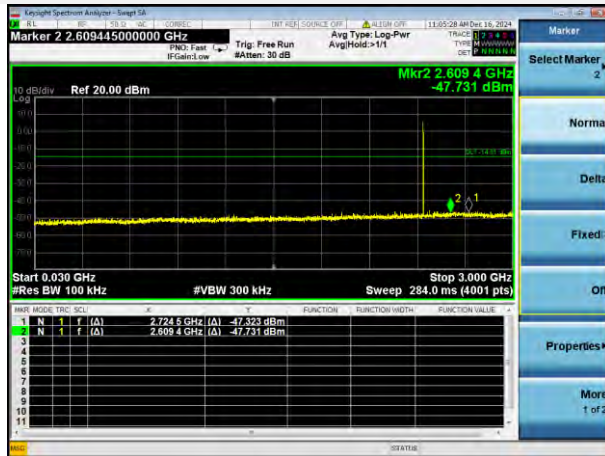
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



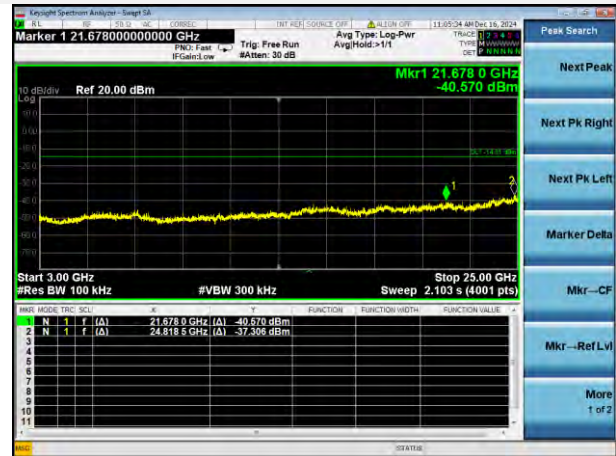
GFSK MIDDLE CHANNEL, CARRIER LEVEL



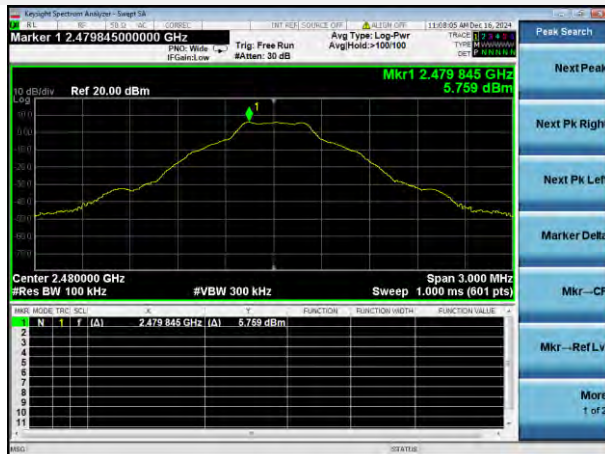
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



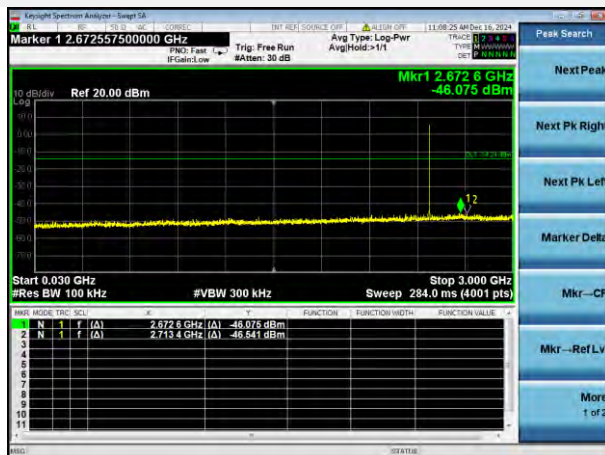
GFSK HIGH CHANNEL, CARRIER LEVEL



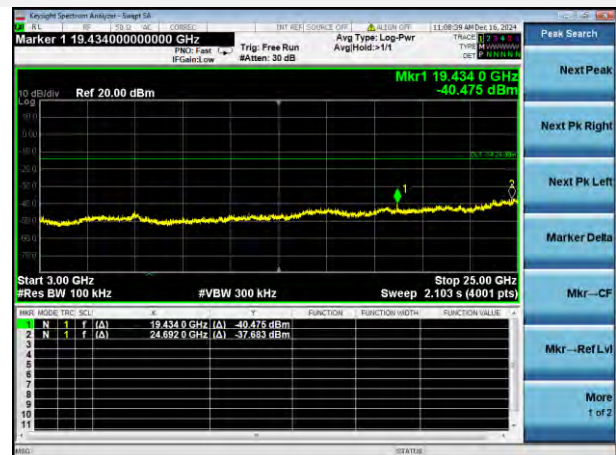
GFSK HIGH CHANNEL, BAND EDGE



GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



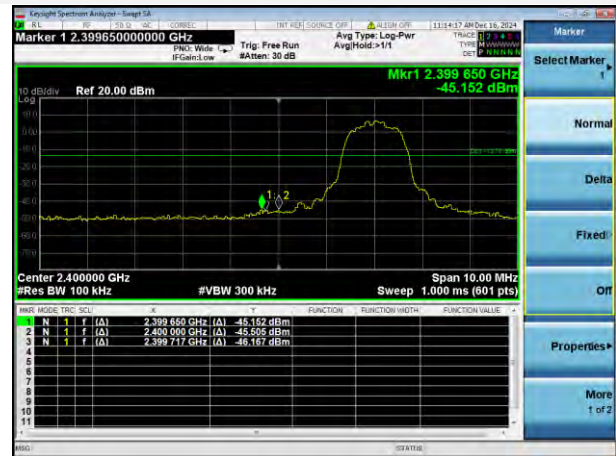
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

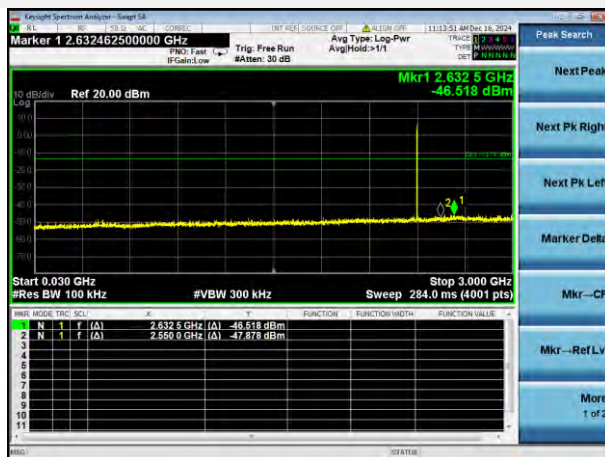


8-DPSK LOW CHANNEL, BAND EDGE



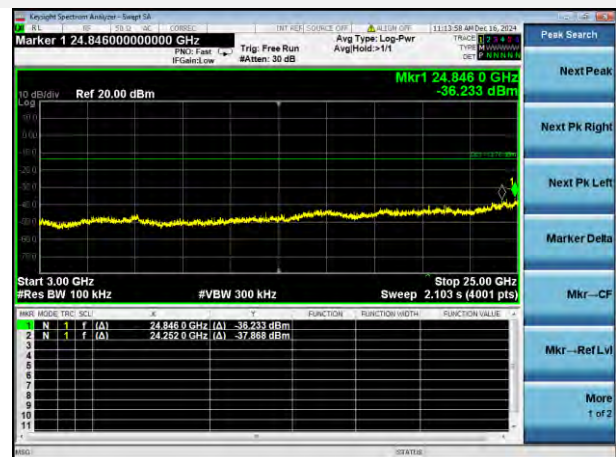
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz



8-DPSK LOW CHANNEL, SPURIOUS

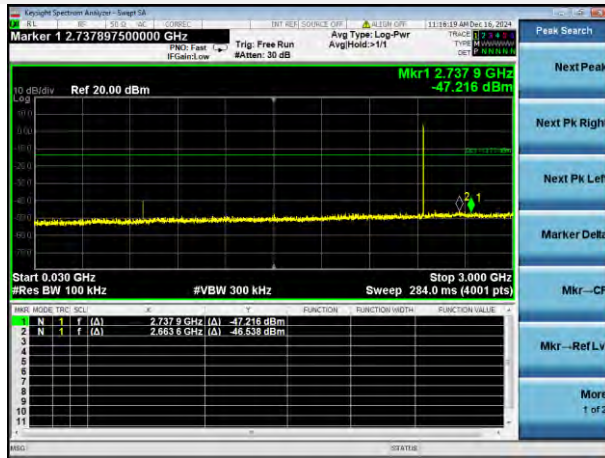
3 GHz ~ 25 GHz



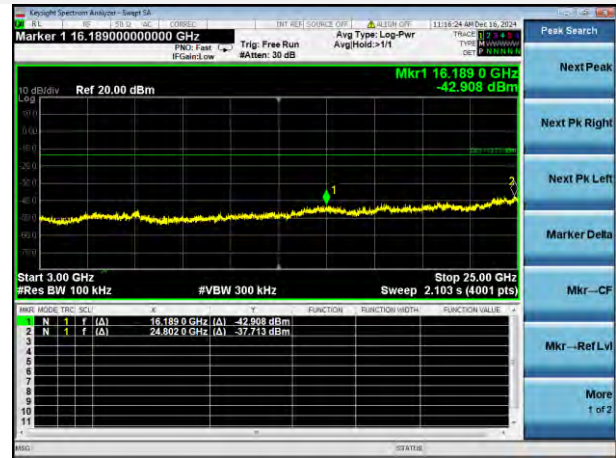
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



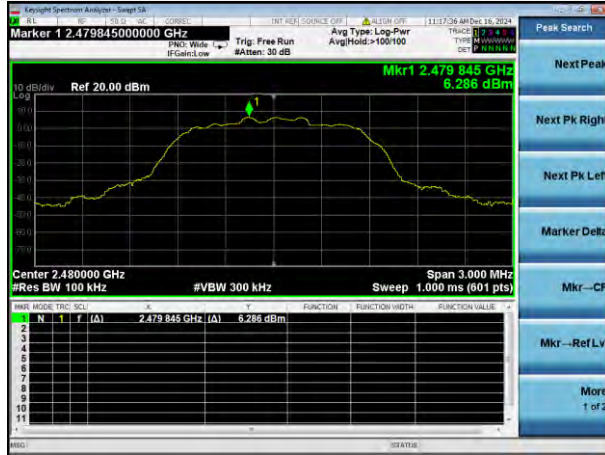
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



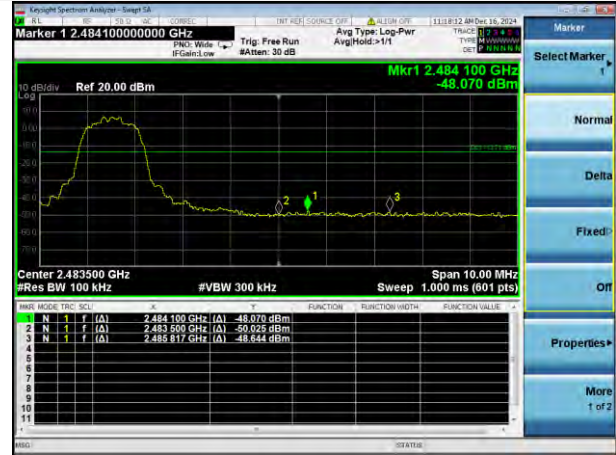
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



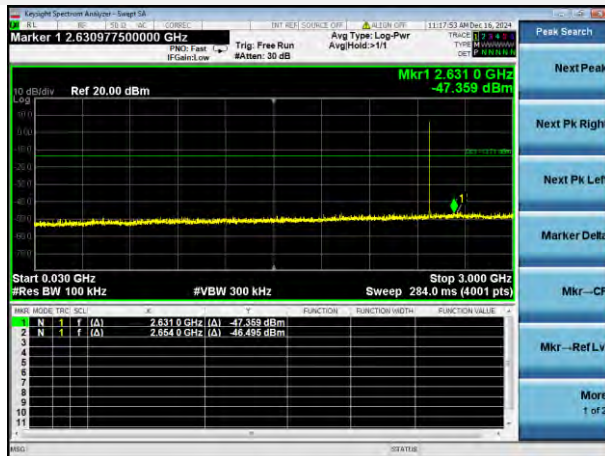
8-DPSK HIGH CHANNEL, CARRIER LEVEL



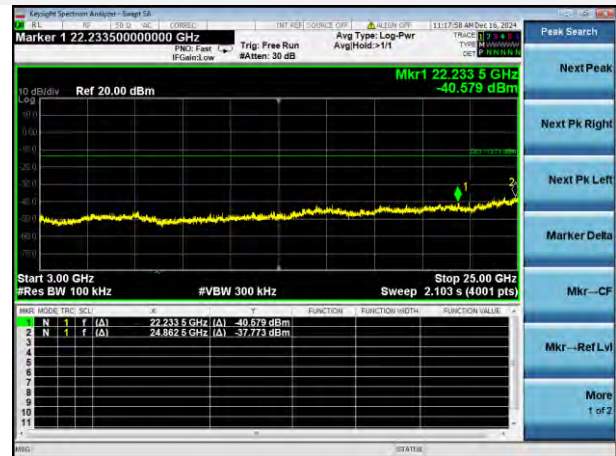
8-DPSK HIGH CHANNEL, BAND EDGE



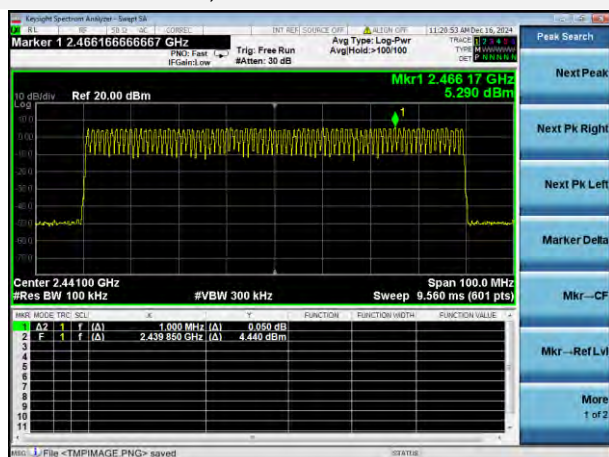
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



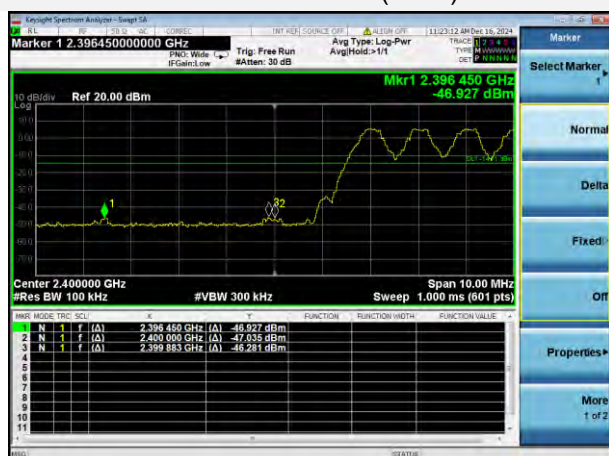
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



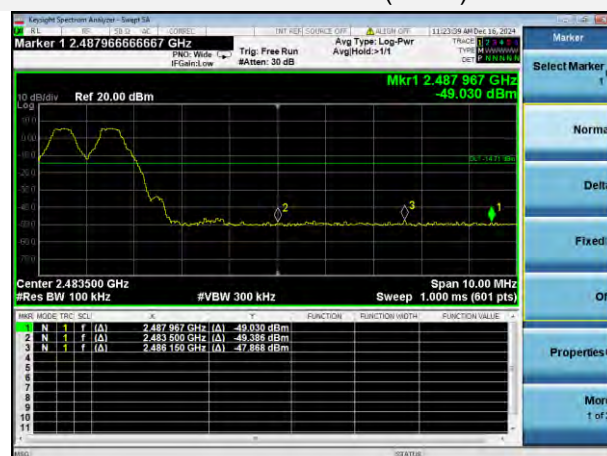
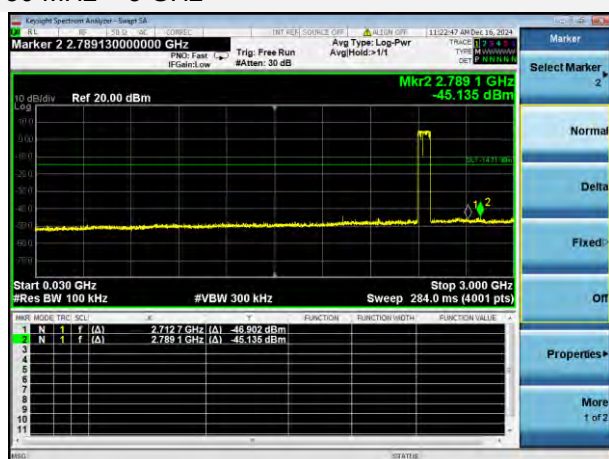
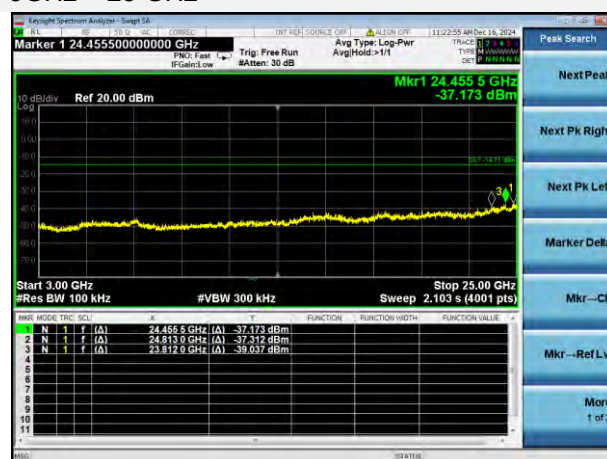
GFSK HOPPING, CARRIER LEVEL



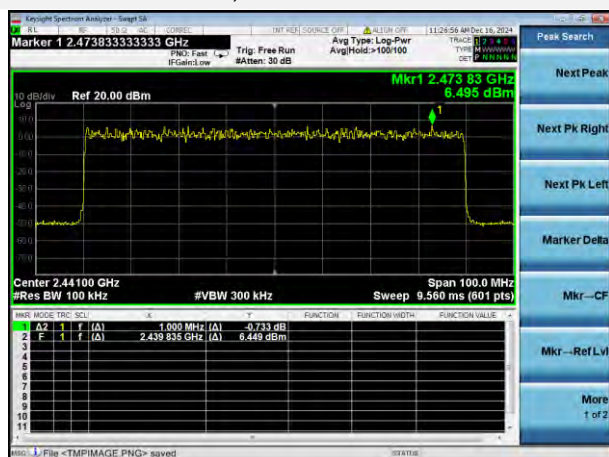
GFSK HOPPING BAND EDGE (LOW)



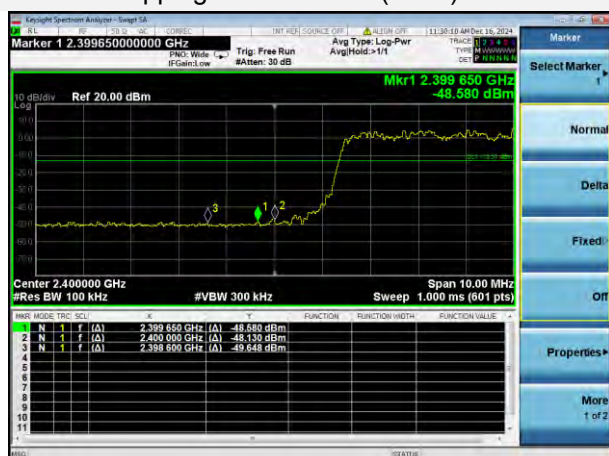
GFSK HOPPING BAND EDGE (HIGH)

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

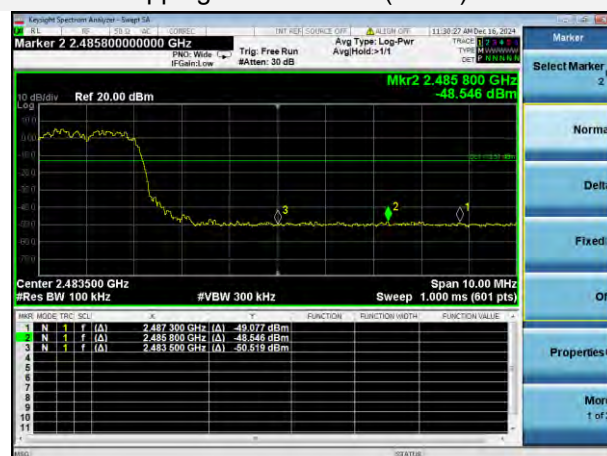
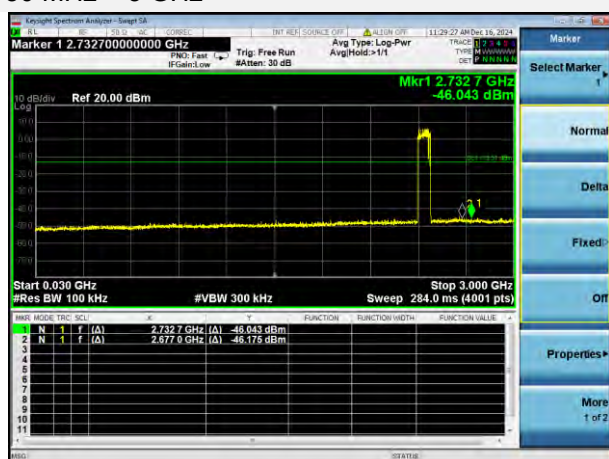
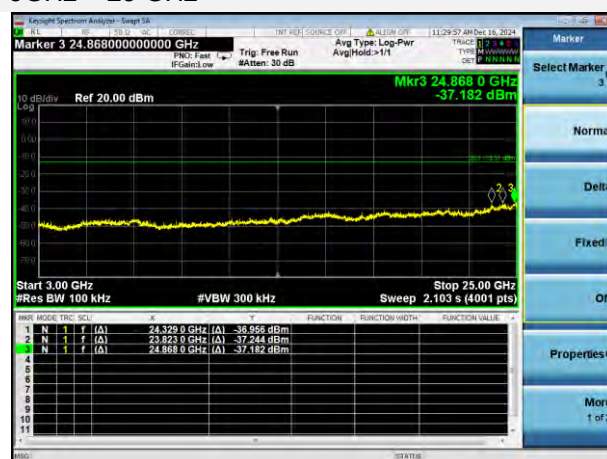
8-DPSK HOPPING, CARRIER LEVEL



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.

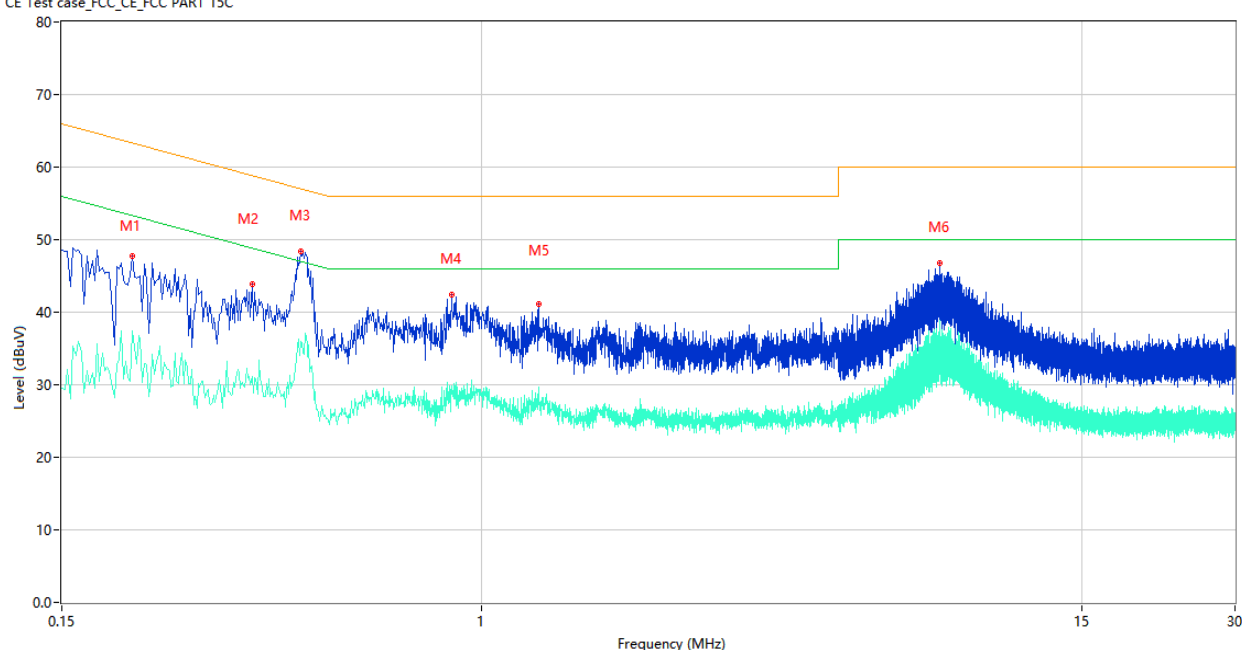
Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

Antenna A

PHASE L

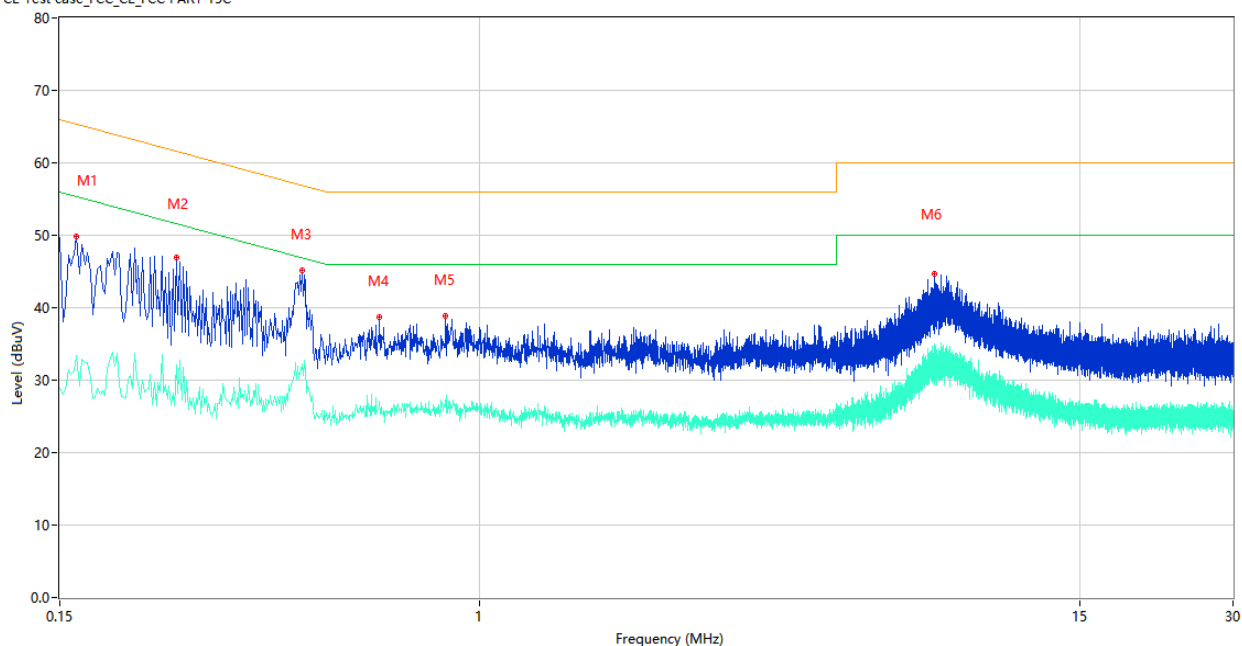
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.206	47.76	9.84	63.37	15.61	Peak	L	Pass
1**	0.206	37.49	9.84	53.37	15.88	AV	L	Pass
2	0.354	43.90	10.80	58.87	14.97	Peak	L	Pass
2**	0.354	31.19	10.80	48.87	17.68	AV	L	Pass
3	0.442	48.47	10.17	57.02	8.55	Peak	L	Pass
3**	0.442	35.93	10.17	47.02	11.09	AV	L	Pass
4	0.872	42.40	10.49	56.00	13.60	Peak	L	Pass
4**	0.872	28.69	10.49	46.00	17.31	AV	L	Pass
5	1.294	41.08	10.56	56.00	14.92	Peak	L	Pass
5**	1.294	29.62	10.56	46.00	16.38	AV	L	Pass
6	7.926	46.70	10.36	60.00	13.30	Peak	L	Pass
6**	7.926	38.92	10.36	50.00	11.08	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C

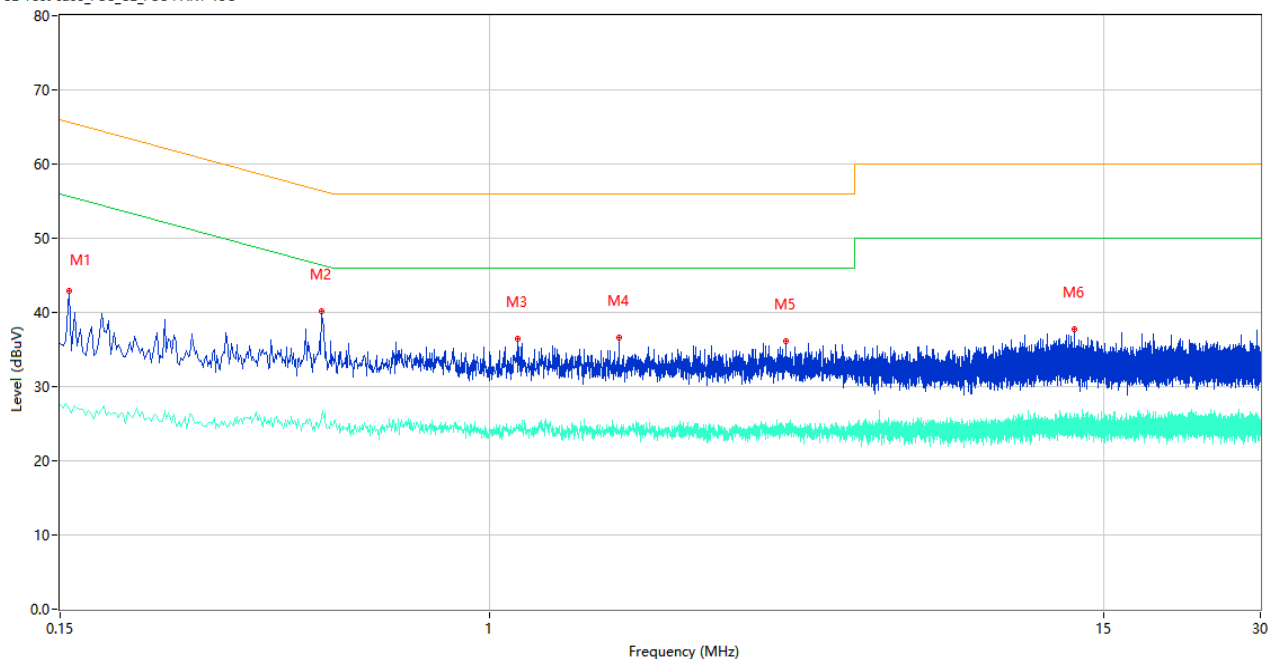


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	49.78	9.85	65.36	15.58	Peak	N	Pass
1**	0.162	33.35	9.85	55.36	22.01	AV	N	Pass
2	0.254	46.97	9.83	61.63	14.66	Peak	N	Pass
2**	0.254	32.12	9.83	51.63	19.51	AV	N	Pass
3	0.448	45.22	10.11	56.91	11.69	Peak	N	Pass
3**	0.448	32.33	10.11	46.91	14.58	AV	N	Pass
4	0.636	38.72	10.25	56.00	17.28	Peak	N	Pass
4**	0.636	27.16	10.25	46.00	18.84	AV	N	Pass
5	0.856	38.80	10.63	56.00	17.20	Peak	N	Pass
5**	0.856	27.23	10.63	46.00	18.77	AV	N	Pass
6	7.776	44.63	10.42	60.00	15.37	Peak	N	Pass
6**	7.776	35.08	10.42	50.00	14.92	AV	N	Pass

Antenna B

PHASE L

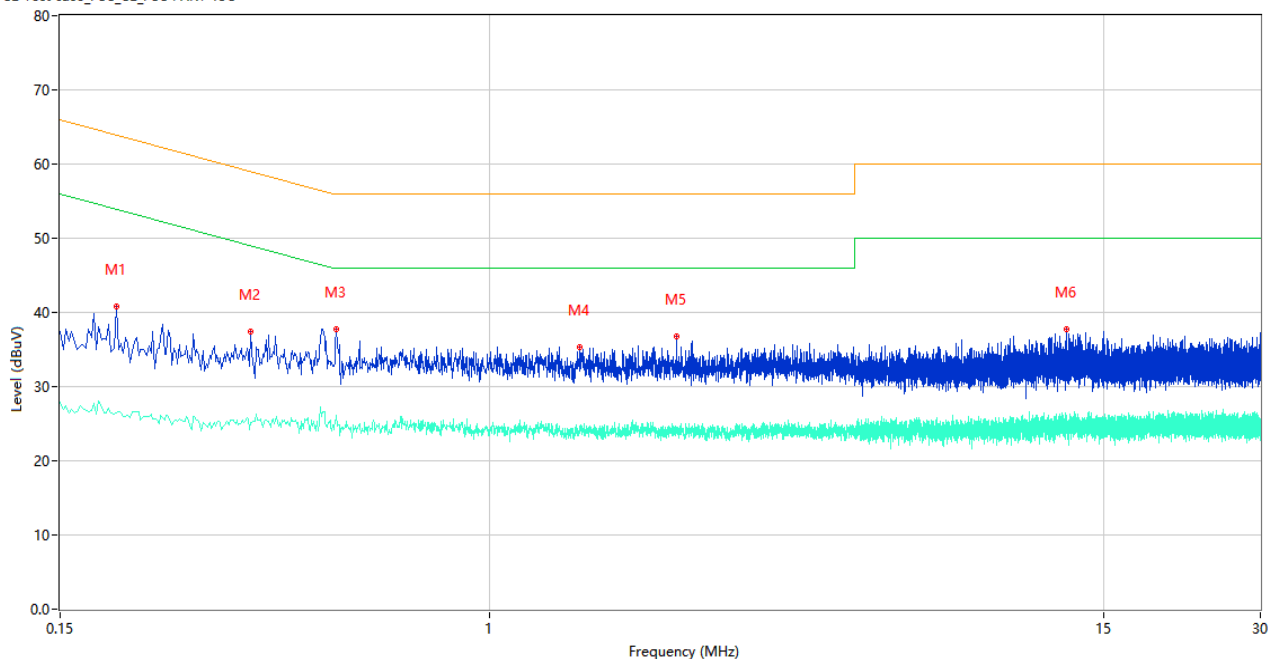
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	42.84	9.86	65.67	22.83	Peak	L	Pass
1**	0.156	27.04	9.86	55.67	28.63	AV	L	Pass
2	0.476	40.17	10.06	56.41	16.24	Peak	L	Pass
2**	0.476	25.87	10.06	46.41	20.54	AV	L	Pass
3	1.132	36.39	10.33	56.00	19.61	Peak	L	Pass
3**	1.132	24.39	10.33	46.00	21.61	AV	L	Pass
4	1.770	36.64	10.22	56.00	19.36	Peak	L	Pass
4**	1.770	24.10	10.22	46.00	21.90	AV	L	Pass
5	3.698	36.15	10.31	56.00	19.85	Peak	L	Pass
5**	3.698	24.43	10.31	46.00	21.57	AV	L	Pass
6	13.204	37.69	10.85	60.00	22.31	Peak	L	Pass
6**	13.204	25.32	10.85	50.00	24.68	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	0.192	40.81	9.84	63.95	23.14	Peak	N	Pass
1**	0.192	26.44	9.84	53.95	27.51	AV	N	Pass
2	0.348	37.43	10.78	59.01	21.58	Peak	N	Pass
2**	0.348	25.18	10.78	49.01	23.83	AV	N	Pass
3	0.508	37.79	10.05	56.00	18.21	Peak	N	Pass
3**	0.508	26.10	10.05	46.00	19.90	AV	N	Pass
4	1.490	35.35	10.29	56.00	20.65	Peak	N	Pass
4**	1.490	24.62	10.29	46.00	21.38	AV	N	Pass
5	2.282	36.71	10.32	56.00	19.29	Peak	N	Pass
5**	2.282	24.55	10.32	46.00	21.45	AV	N	Pass
6	12.720	37.67	10.67	60.00	22.33	Peak	N	Pass
6**	12.720	24.74	10.67	50.00	25.26	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.

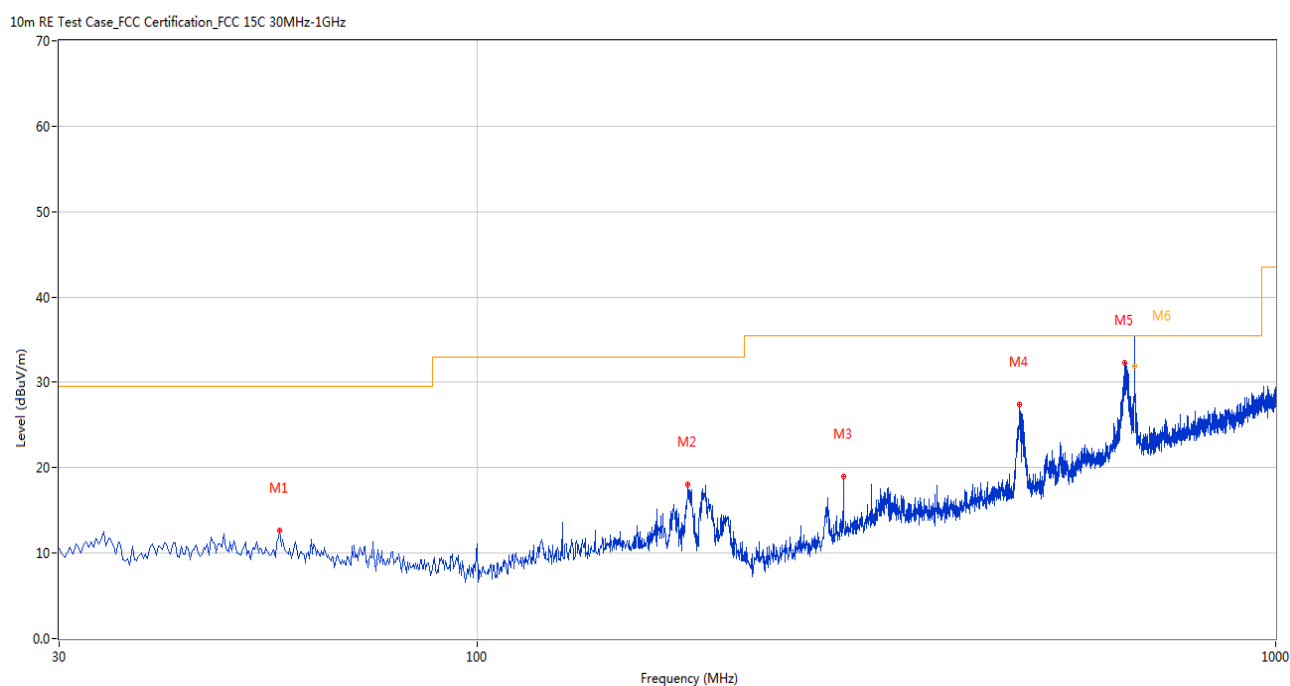
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

Antenna A

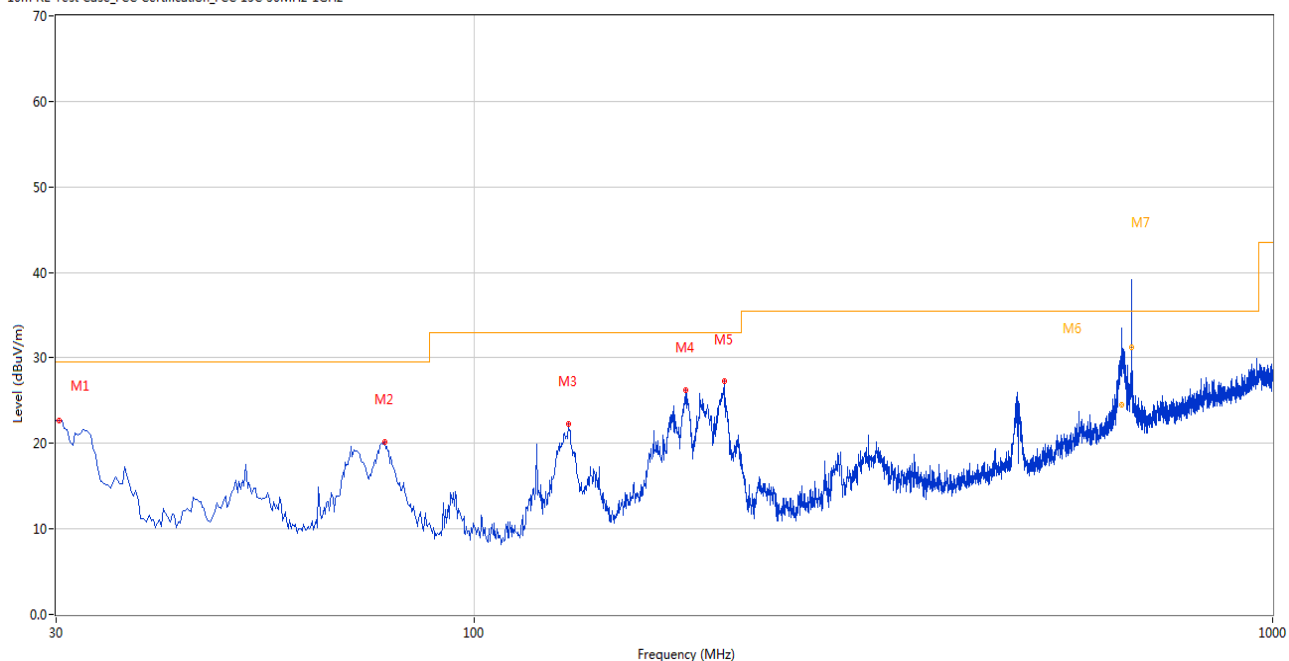
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.668	12.70	-27.24	29.5	16.80	Peak	302.00	100	Horizontal	Pass
2	183.707	18.05	-27.95	33.0	14.95	Peak	107.00	200	Horizontal	Pass
3	287.956	19.01	-25.91	35.5	16.49	Peak	307.00	200	Horizontal	Pass
4	477.786	27.45	-20.51	35.5	8.05	Peak	258.00	200	Horizontal	Pass
5	647.978	32.35	-15.79	35.5	3.15	Peak	253.00	100	Horizontal	Pass
6	666.492	37.74	-15.60	35.5	-2.24	Peak	264.00	138	Horizontal	N/A
6*	666.492	31.95	-15.60	35.5	3.55	QP	264.00	138	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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

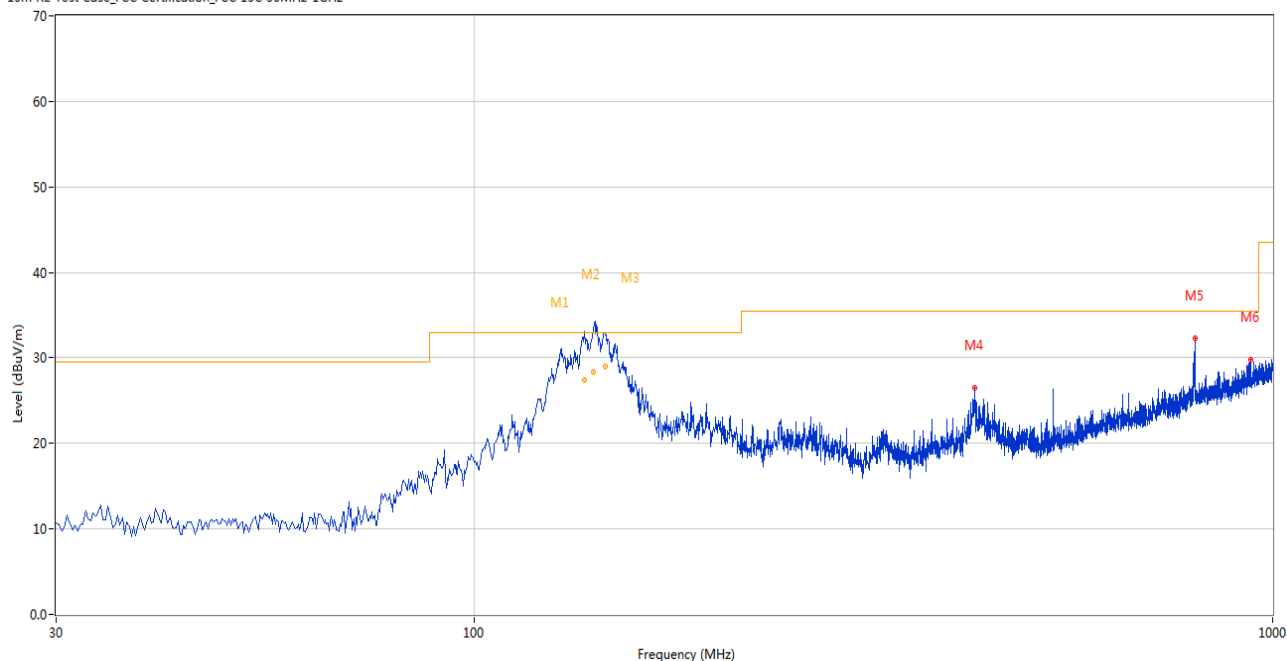


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.242	22.71	-26.84	29.5	6.79	Peak	102.00	100	Vertical	Pass
2	77.276	20.19	-29.86	29.5	9.31	Peak	154.00	200	Vertical	Pass
3	131.340	22.26	-27.33	33.0	10.74	Peak	265.00	100	Vertical	Pass
4	184.191	26.28	-28.01	33.0	6.72	Peak	123.00	100	Vertical	Pass
5	205.769	27.22	-29.37	33.0	5.78	Peak	20.00	100	Vertical	Pass
6	647.744	29.88	-15.79	35.5	5.62	Peak	296.00	199	Vertical	N/A
6*	647.744	24.54	-15.79	35.5	10.96	QP	296.00	199	Vertical	Pass
7	666.493	38.96	-15.60	35.5	-3.46	Peak	111.00	179	Vertical	N/A
7*	666.493	31.30	-15.60	35.5	4.20	QP	111.00	179	Vertical	Pass

Antenna B

30 MHz to 1 GHz, ANT H

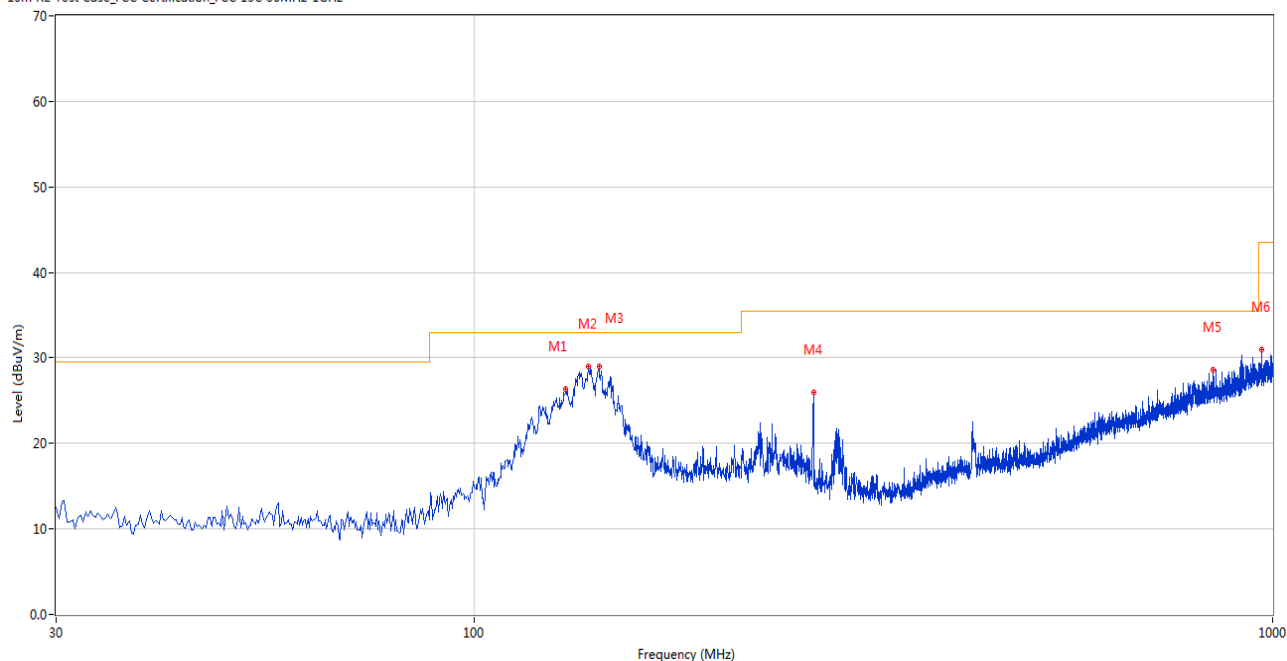
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	137.381	30.54	-26.91	33.0	2.46	Peak	360.00	199	Horizontal	N/A
1*	137.381	27.43	-26.91	33.0	5.57	QP	360.00	199	Horizontal	Pass
2	141.298	31.43	-26.76	33.0	1.57	Peak	193.00	200	Horizontal	N/A
2*	141.298	28.36	-26.76	33.0	4.64	QP	193.00	200	Horizontal	Pass
3	145.886	32.83	-26.33	33.0	0.17	Peak	166.00	200	Horizontal	N/A
3*	145.886	29.00	-26.33	33.0	4.00	QP	166.00	200	Horizontal	Pass
4	424.206	26.56	-22.02	35.5	8.94	Peak	285.00	200	Horizontal	Pass
5	799.745	32.25	-12.48	35.5	3.25	Peak	308.00	100	Horizontal	Pass
6	938.905	29.75	-9.78	35.5	5.75	Peak	150.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	130.370	26.37	-27.52	33.0	6.63	Peak	360.00	100	Vertical	Pass
2	139.340	28.98	-26.84	33.0	4.02	Peak	107.00	100	Vertical	Pass
3	143.462	29.07	-26.56	33.0	3.93	Peak	123.00	100	Vertical	Pass
4	266.378	25.99	-26.84	35.5	9.51	Peak	0.00	200	Vertical	Pass
5	841.687	28.63	-11.71	35.5	6.87	Peak	334.00	200	Vertical	Pass
6	968.240	30.99	-9.44	43.5	12.51	Peak	360.00	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.

Antenna A

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.504	41.80	74.0	32.20	Peak	279.00	200	Horizontal	Pass
1**	1333.504	34.60	54.0	19.40	AV	279.00	200	Horizontal	Pass
2	2974.148	53.73	74.0	20.27	Peak	56.00	200	Horizontal	Pass
2**	2974.148	38.62	54.0	15.38	AV	56.00	200	Horizontal	Pass
3	4915.174	50.57	74.0	23.43	Peak	240.00	200	Horizontal	Pass
3**	4915.174	40.34	54.0	13.66	AV	240.00	200	Horizontal	Pass
4	7628.647	52.85	74.0	21.15	Peak	346.00	300	Horizontal	Pass
4**	7628.647	44.39	54.0	9.61	AV	346.00	300	Horizontal	Pass
5	12478.387	51.53	74.0	22.47	Peak	332.00	200	Horizontal	Pass
5**	12478.387	42.31	54.0	11.69	AV	332.00	200	Horizontal	Pass
6	16863.761	58.00	74.0	16.00	Peak	290.00	400	Horizontal	Pass
6**	16863.761	43.15	54.0	10.85	AV	290.00	400	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1464.573	43.47	74.0	30.53	Peak	47.00	200	Vertical	Pass
1**	1464.573	33.37	54.0	20.63	AV	47.00	200	Vertical	Pass
2	2990.468	49.77	74.0	24.23	Peak	269.00	100	Vertical	Pass
2**	2990.468	43.27	54.0	10.73	AV	269.00	100	Vertical	Pass
3	4820.412	52.12	74.0	21.88	Peak	297.00	200	Vertical	Pass
3**	4820.412	39.99	54.0	14.01	AV	297.00	200	Vertical	Pass
4	7963.856	53.26	74.0	20.74	Peak	102.00	400	Vertical	Pass
4**	7963.856	45.51	54.0	8.49	AV	102.00	400	Vertical	Pass
5	12442.676	52.62	74.0	21.38	Peak	358.00	300	Vertical	Pass
5**	12442.676	44.03	54.0	9.97	AV	358.00	300	Vertical	Pass
6	17456.271	55.71	74.0	18.29	Peak	188.00	200	Vertical	Pass
6**	17456.271	48.39	54.0	5.61	AV	188.00	200	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.950	40.90	74.0	33.10	Peak	264.00	100	Horizontal	Pass
1**	1333.950	34.32	54.0	19.68	AV	264.00	100	Horizontal	Pass
2	2979.462	52.82	74.0	21.18	Peak	332.00	300	Horizontal	Pass
2**	2979.462	41.31	54.0	12.69	AV	332.00	300	Horizontal	Pass
3	4914.271	47.42	74.0	26.58	Peak	342.00	200	Horizontal	Pass
3**	4914.271	39.59	54.0	14.41	AV	342.00	200	Horizontal	Pass
4	7624.674	55.46	74.0	18.54	Peak	347.00	300	Horizontal	Pass
4**	7624.674	41.96	54.0	12.04	AV	347.00	300	Horizontal	Pass
5	12477.701	54.70	74.0	19.30	Peak	61.00	300	Horizontal	Pass
5**	12477.701	44.46	54.0	9.54	AV	61.00	300	Horizontal	Pass
6	16859.136	55.12	74.0	18.88	Peak	77.00	400	Horizontal	Pass
6**	16859.136	44.96	54.0	9.04	AV	77.00	400	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1463.175	40.12	74.0	33.88	Peak	79.00	400	Vertical	Pass
1**	1463.175	32.12	54.0	21.88	AV	79.00	400	Vertical	Pass
2	2990.584	49.75	74.0	24.25	Peak	341.00	200	Vertical	Pass
2**	2990.584	42.40	54.0	11.60	AV	341.00	200	Vertical	Pass
3	4819.439	51.95	74.0	22.05	Peak	24.00	200	Vertical	Pass
3**	4819.439	39.14	54.0	14.86	AV	24.00	200	Vertical	Pass
4	7969.100	54.10	74.0	19.90	Peak	320.00	100	Vertical	Pass
4**	7969.100	44.75	54.0	9.25	AV	320.00	100	Vertical	Pass
5	12442.416	55.19	74.0	18.81	Peak	67.00	400	Vertical	Pass
5**	12442.416	44.74	54.0	9.26	AV	67.00	400	Vertical	Pass
6	17459.225	55.91	74.0	18.09	Peak	224.00	400	Vertical	Pass
6**	17459.225	43.60	54.0	10.40	AV	224.00	400	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.900	40.44	74.0	33.56	Peak	333.00	400	Horizontal	Pass
1**	1333.900	31.67	54.0	22.33	AV	333.00	400	Horizontal	Pass
2	2978.415	53.14	74.0	20.86	Peak	73.00	200	Horizontal	Pass
2**	2978.415	38.55	54.0	15.45	AV	73.00	200	Horizontal	Pass
3	4915.907	48.46	74.0	25.54	Peak	89.00	200	Horizontal	Pass
3**	4915.907	41.97	54.0	12.03	AV	89.00	200	Horizontal	Pass
4	7624.142	55.87	74.0	18.13	Peak	114.00	300	Horizontal	Pass
4**	7624.142	45.45	54.0	8.55	AV	114.00	300	Horizontal	Pass
5	12475.326	54.62	74.0	19.38	Peak	88.00	300	Horizontal	Pass
5**	12475.326	43.13	54.0	10.87	AV	88.00	300	Horizontal	Pass
6	16856.539	57.15	74.0	16.85	Peak	49.00	400	Horizontal	Pass
6**	16856.539	45.45	54.0	8.55	AV	49.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1460.183	43.12	74.0	30.88	Peak	94.00	100	Vertical	Pass
1**	1460.183	32.49	54.0	21.51	AV	94.00	100	Vertical	Pass
2	2991.206	52.66	74.0	21.34	Peak	138.00	200	Vertical	Pass
2**	2991.206	42.14	54.0	11.86	AV	138.00	200	Vertical	Pass
3	4821.040	47.73	74.0	26.27	Peak	290.00	200	Vertical	Pass
3**	4821.040	39.19	54.0	14.81	AV	290.00	200	Vertical	Pass
4	7969.976	56.32	74.0	17.68	Peak	339.00	300	Vertical	Pass
4**	7969.976	46.67	54.0	7.33	AV	339.00	300	Vertical	Pass
5	12447.738	53.58	74.0	20.42	Peak	7.00	400	Vertical	Pass
5**	12447.738	44.15	54.0	9.85	AV	7.00	400	Vertical	Pass
6	17456.652	54.35	74.0	19.65	Peak	240.00	400	Vertical	Pass
6**	17456.652	43.77	54.0	10.23	AV	240.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.018	45.22	74.0	28.78	Peak	223.00	200	Horizontal	Pass
1**	1285.018	35.61	54.0	18.39	AV	223.00	200	Horizontal	Pass
2	2768.128	50.32	74.0	23.68	Peak	54.00	200	Horizontal	Pass
2**	2768.128	43.33	54.0	10.67	AV	54.00	200	Horizontal	Pass
3	5170.454	49.55	74.0	24.45	Peak	211.00	200	Horizontal	Pass
3**	5170.454	42.88	54.0	11.12	AV	211.00	200	Horizontal	Pass
4	6806.965	56.67	74.0	17.33	Peak	186.00	100	Horizontal	Pass
4**	6806.965	46.84	54.0	7.16	AV	186.00	100	Horizontal	Pass
5	13467.446	57.87	74.0	16.13	Peak	283.00	400	Horizontal	Pass
5**	13467.446	45.43	54.0	8.57	AV	283.00	400	Horizontal	Pass
6	17463.342	55.28	74.0	18.72	Peak	169.00	200	Horizontal	Pass
6**	17463.342	46.78	54.0	7.22	AV	169.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.544	45.36	74.0	28.64	Peak	9.00	400	Vertical	Pass
1**	1285.544	35.23	54.0	18.77	AV	9.00	400	Vertical	Pass
2	2774.749	54.22	74.0	19.78	Peak	145.00	400	Vertical	Pass
2**	2774.749	44.28	54.0	9.72	AV	145.00	400	Vertical	Pass
3	5164.061	56.79	74.0	17.21	Peak	287.00	200	Vertical	Pass
3**	5164.061	41.98	54.0	12.02	AV	287.00	200	Vertical	Pass
4	6803.053	51.51	74.0	22.49	Peak	71.00	200	Vertical	Pass
4**	6803.053	45.92	54.0	8.08	AV	71.00	200	Vertical	Pass
5	13468.774	54.73	74.0	19.27	Peak	82.00	400	Vertical	Pass
5**	13468.774	43.88	54.0	10.12	AV	82.00	400	Vertical	Pass
6	17467.585	55.66	74.0	18.34	Peak	183.00	100	Vertical	Pass
6**	17467.585	49.39	54.0	4.61	AV	183.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.044	40.68	74.0	33.32	Peak	97.00	100	Horizontal	Pass
1**	1284.044	33.86	54.0	20.14	AV	97.00	100	Horizontal	Pass
2	2771.607	52.12	74.0	21.88	Peak	333.00	200	Horizontal	Pass
2**	2771.607	45.92	54.0	8.08	AV	333.00	200	Horizontal	Pass
3	5165.350	51.78	74.0	22.22	Peak	327.00	200	Horizontal	Pass
3**	5165.350	42.68	54.0	11.32	AV	327.00	200	Horizontal	Pass
4	6806.765	53.50	74.0	20.50	Peak	101.00	300	Horizontal	Pass
4**	6806.765	48.20	54.0	5.80	AV	101.00	300	Horizontal	Pass
5	13464.744	55.81	74.0	18.19	Peak	185.00	400	Horizontal	Pass
5**	13464.744	42.63	54.0	11.37	AV	185.00	400	Horizontal	Pass
6	17464.772	53.75	74.0	20.25	Peak	82.00	200	Horizontal	Pass
6**	17464.772	48.03	54.0	5.97	AV	82.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1282.212	42.43	74.0	31.57	Peak	31.00	100	Vertical	Pass
1**	1282.212	32.65	54.0	21.35	AV	31.00	100	Vertical	Pass
2	2770.903	54.06	74.0	19.94	Peak	131.00	200	Vertical	Pass
2**	2770.903	47.20	54.0	6.80	AV	131.00	200	Vertical	Pass
3	5161.267	53.56	74.0	20.44	Peak	231.00	200	Vertical	Pass
3**	5161.267	44.88	54.0	9.12	AV	231.00	200	Vertical	Pass
4	6801.755	55.23	74.0	18.77	Peak	122.00	200	Vertical	Pass
4**	6801.755	47.88	54.0	6.12	AV	122.00	200	Vertical	Pass
5	13470.353	55.20	74.0	18.80	Peak	125.00	300	Vertical	Pass
5**	13470.353	44.23	54.0	9.77	AV	125.00	300	Vertical	Pass
6	17463.470	60.03	74.0	13.97	Peak	121.00	100	Vertical	Pass
6**	17463.470	50.66	54.0	3.34	AV	121.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.916	40.71	74.0	33.29	Peak	305.00	300	Horizontal	Pass
1**	1285.916	31.26	54.0	22.74	AV	305.00	300	Horizontal	Pass
2	2773.576	53.68	74.0	20.32	Peak	353.00	100	Horizontal	Pass
2**	2773.576	40.31	54.0	13.69	AV	353.00	100	Horizontal	Pass
3	5171.383	51.87	74.0	22.13	Peak	330.00	200	Horizontal	Pass
3**	5171.383	40.13	54.0	13.87	AV	330.00	200	Horizontal	Pass
4	6808.990	57.75	74.0	16.25	Peak	211.00	300	Horizontal	Pass
4**	6808.990	45.57	54.0	8.43	AV	211.00	300	Horizontal	Pass
5	13464.062	57.45	74.0	16.55	Peak	145.00	400	Horizontal	Pass
5**	13464.062	45.14	54.0	8.86	AV	145.00	400	Horizontal	Pass
6	17468.980	58.36	74.0	15.64	Peak	195.00	400	Horizontal	Pass
6**	17468.980	43.95	54.0	10.05	AV	195.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1280.963	45.82	74.0	28.18	Peak	244.00	100	Vertical	Pass
1**	1280.963	36.25	54.0	17.75	AV	244.00	100	Vertical	Pass
2	2772.088	52.78	74.0	21.22	Peak	324.00	300	Vertical	Pass
2**	2772.088	46.37	54.0	7.63	AV	324.00	300	Vertical	Pass
3	5164.102	52.85	74.0	21.15	Peak	5.00	200	Vertical	Pass
3**	5164.102	45.98	54.0	8.02	AV	5.00	200	Vertical	Pass
4	6809.048	53.79	74.0	20.21	Peak	20.00	400	Vertical	Pass
4**	6809.048	45.69	54.0	8.31	AV	20.00	400	Vertical	Pass
5	13468.407	52.54	74.0	21.46	Peak	58.00	300	Vertical	Pass
5**	13468.407	40.60	54.0	13.40	AV	58.00	300	Vertical	Pass
6	17461.806	59.68	74.0	14.32	Peak	345.00	100	Vertical	Pass
6**	17461.806	46.65	54.0	7.35	AV	345.00	100	Vertical	Pass

Antenna B**GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.163	44.85	74.0	29.15	Peak	5.00	300	Horizontal	Pass
1**	1333.163	29.87	54.0	24.13	AV	5.00	300	Horizontal	Pass
2	2977.228	49.09	74.0	24.91	Peak	302.00	300	Horizontal	Pass
2**	2977.228	38.56	54.0	15.44	AV	302.00	300	Horizontal	Pass
3	4918.486	46.96	74.0	27.04	Peak	316.00	200	Horizontal	Pass
3**	4918.486	39.92	54.0	14.08	AV	316.00	200	Horizontal	Pass
4	7625.375	56.15	74.0	17.85	Peak	343.00	200	Horizontal	Pass
4**	7625.375	44.48	54.0	9.52	AV	343.00	200	Horizontal	Pass
5	12479.137	55.87	74.0	18.13	Peak	14.00	300	Horizontal	Pass
5**	12479.137	47.06	54.0	6.94	AV	14.00	300	Horizontal	Pass
6	16858.582	57.54	74.0	16.46	Peak	37.00	300	Horizontal	Pass
6**	16858.582	42.80	54.0	11.20	AV	37.00	300	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1466.113	42.41	74.0	31.59	Peak	153.00	100	Vertical	Pass
1**	1466.113	31.96	54.0	22.04	AV	153.00	100	Vertical	Pass
2	2993.266	49.76	74.0	24.24	Peak	114.00	400	Vertical	Pass
2**	2993.266	38.30	54.0	15.70	AV	114.00	400	Vertical	Pass
3	4824.866	48.68	74.0	25.32	Peak	131.00	200	Vertical	Pass
3**	4824.866	41.44	54.0	12.56	AV	131.00	200	Vertical	Pass
4	7969.775	52.33	74.0	21.67	Peak	333.00	100	Vertical	Pass
4**	7969.775	42.99	54.0	11.01	AV	333.00	100	Vertical	Pass
5	12446.310	54.19	74.0	19.81	Peak	99.00	100	Vertical	Pass
5**	12446.310	42.65	54.0	11.35	AV	99.00	100	Vertical	Pass
6	17454.751	52.40	74.0	21.60	Peak	276.00	200	Vertical	Pass
6**	17454.751	45.50	54.0	8.50	AV	276.00	200	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

Note³: 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.

Note⁴: The Level (dBuV/m) has been corrected by factor.

Test Data

Antenna A

GFSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2361.666	59.15	74.0	14.85	Peak	253.00	200	Horizontal	Pass
1**	2361.666	45.49	54.0	8.51	AV	253.00	200	Horizontal	Pass
2	2390.000	55.65	74.0	18.35	Peak	272.00	300	Horizontal	Pass
2**	2390.000	47.18	54.0	6.82	AV	272.00	300	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	57.93	74.0	16.07	Peak	260.00	100	Horizontal	Pass
1**	2483.500	45.71	54.0	8.29	AV	260.00	100	Horizontal	Pass
2	2485.780	59.56	74.0	14.44	Peak	147.00	100	Horizontal	Pass
2**	2485.780	47.9	54.0	6.10	AV	147.00	100	Horizontal	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2362.481	56.68	74.0	17.32	Peak	110.00	300	Horizontal	Pass
1**	2362.481	43.9	54.0	10.10	AV	110.00	300	Horizontal	Pass
2	2390.000	56.11	74.0	17.89	Peak	120.00	300	Horizontal	Pass
2**	2390.000	48.6	54.0	5.40	AV	120.00	300	Horizontal	Pass

8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	55.2	74.0	18.80	Peak	197.00	300	Horizontal	Pass
1**	2483.500	45.17	54.0	8.83	AV	197.00	300	Horizontal	Pass
2	2484.689	60.03	74.0	13.97	Peak	258.00	100	Horizontal	Pass
2**	2484.689	45.06	54.0	8.94	AV	258.00	100	Horizontal	Pass

Antenna B

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.86	74.0	19.14	Peak	122.00	200	Horizontal	Pass
1**	2483.500	47.51	54.0	6.49	AV	122.00	200	Horizontal	Pass
2	2485.629	57.26	74.0	16.74	Peak	357.00	300	Horizontal	Pass
2**	2485.629	48.23	54.0	5.77	AV	357.00	300	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2571609-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2571609-AW-1.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2571609-AI-1.PDF”.

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--END OF REPORT--