ACCREDITED
CERT# 6677.01

TEST REPORT

Applicant:	Cavli Inc.
Address:	99 South Almaden Blvd., Suite 600, San Jose, CA, USA
Equipment Type:	LTE MODEM
Model Name:	CQS290 (refer to section 2.3)
Brand Name:	Cavli Wireless
FCC ID:	2BB64CQS290NA
Test Standard:	47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date:	Sep. 16, 2026
Test Date：	Sep. 21, 2026 - Oct. 14, 2026
Date of Issue:	Oct. 15, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

上海泰捷通信技术有限公司测试中心
检验检测专用章
Inspection & Testing Seal
Shanghai Tejet Communications Technology Co.,Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions
Rev. 01	Oct. 15, 2026	Initial Issue

TABLE OF CONTENTS

1 GENERAL INFORMATION 4
1.1 Test Laboratory 4
1.2 Test Location 4
2 PRODUCT INFORMATION 5
2.1 Applicant Information 5
2.2 Manufacturer Information 5
2.3 General Description for Equipment under Test (EUT) 5
2.4 Technical Information 6
3 SUMMARY OF TEST RESULTS 8
3.1 Test Standards 8
3.2 Test Verdict 8
3.3 Measurement Uncertainty 10
3.4 Decision Rule 10
4 GENERAL TEST CONFIGURATIONS 11
4.1 Test Environments 11
4.2 Test Equipment List 11
4.3 Test Software List 11
4.4 Description of Test Setup 12
4.5 Measurement Results Explanation Example 14
5 TEST ITEMS 15
5.1 Antenna Requirements 15
5.2 Frequency Hopping Systems 16
5.3 Number of Hopping Frequencies 17
5.4 Peak Output Power 18
5.5 Occupied Bandwidth 19

5.6 Carrier Frequency Separation 20
5.7 Time of Occupancy (Dwell time) 21
5.8 Conducted Spurious Emission & Authorized-band band-edge 23
5.9 Conducted Emission 24
5.10 Radiated Spurious Emission 25
5.11 Band Edge (Restricted-band band-edge) 27
ANNEX A TEST RESULT 28
A.1 Number of Hopping frequencies 28
A.2 Peak Output Power 29
A.3 Occupied Bandwidth 32
A.4 Carrier Frequency Separation 32
A.5 Time of Occupancy (Dwell time) 32
A.6 Conducted Spurious Emissions & Authorized-band band-edge 32
A.7 Conducted Emissions 33
A.8 Radiated Spurious Emission 35
A.9 Band Edge (Restricted-band band-edge) 41
ANNEX B TEST SETUP PHOTOS 45
ANNEX C EUT EXTERNAL PHOTOS 45
ANNEX D EUT INTERNAL PHOTOS 45

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Cavli Inc.
Address	99 South Almaden Blvd., Suite 600, San Jose, CA, USA

2.2 Manufacturer Information

Manufacturer	Cavli Inc.
Address	99 South Almaden Blvd., Suite 600, San Jose, CA, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	LTE MODEM
Model Name Under Test	CQS290
Series Model Name	CQS290-NA-108GNAN, CQS290-NA-108GNAH, CQS290-NA-216GNAN, CQS290-NA-216GNAH, CQS290-NA-232GNAN, CQS290-NA-232GNAH, CQS290-NA-332GNAN, CQS290-NA-332GNAH, CQS290-NA-364GNAN, CQS290-NA-364GNAH, CQS290-NA-432GNAN, CQS290-NA-432GNAH, CQS290-NA-464GNAN, CQS290-NA-464GNAH.
Description of Model name differentiation	(this information provided by the customer)

Variants	GNSS	eSim
CQS290-NA-108GNAN	Yes	No
CQS290-NA-108GNAH	Yes	Yes
CQS290-NA-216GNAN	Yes	No
CQS290-NA-216GNAH	Yes	Yes
CQS290-NA-232GNAN	Yes	No
CQS290-NA-232GNAH	Yes	Yes
CQS290-NA-332GNAN	Yes	No
CQS290-NA-332GNAH	Yes	Yes
CQS290-NA-364GNAN	Yes	No
CQS290-NA-364GNAH	Yes	Yes
CQS290-NA-432GNAN	Yes	No
CQS290-NA-432GNAH	Yes	Yes
CQS290-NA-464GNAN	Yes	No
CQS290-NA-464GNAH	Yes	Yes

Sample Number	CC26080320-001-S03
Hardware Version	V3
Software Version	2.0.0/1.3.0*
Dimensions (Approx.)	L:40.5±0.25mm* W:40.5±0.25mm* H:2.94±0.25mm
Weight (Approx.)	N/A
Note: Software Version 1.3.0 uses APPS Version LA2.1.	

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/7/12/13/17/25/66 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) GPS, BDS, GLONASS, Galileo

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

Modulation Technology	FHSS
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK
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 Gain	5.0 dBi
Antenna Impedance	50Ω
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 C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of 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.	ISED Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	N/A	--	Pass	Note [1]
2	Number of Hopping Frequencies	15.247(a)	N/A	Hopping Mode	ANNEX A.1	Pass	Note [2]
3	Peak Output Power	15.247(b)	N/A	Low/Middle/ High	ANNEX A.2	Pass	--
4	Occupied Bandwidth	15.247(a)	N/A	Low/Middle/ High	ANNEX A.3	Pass	Note [2]
5	Carrier Frequency Separation	15.247(a)	N/A	Hopping Mode	ANNEX A.4	Pass	Note [2]
6	Time of Occupancy (Dwell time)	15.247(a)	N/A	Hopping Mode	ANNEX A.5	Pass	Note [2]
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	N/A	Hopping Mode, Low/Middle/ High	ANNEX A.6	Pass	Note [2]
8	Conducted Emission	15.207	N/A	Low/Middle/ High	ANNEX A.7	Pass	Note [2]
9	Radiated Spurious Emission	15.209 15.247(d)	N/A	Hopping Mode, Low/Middle/ High	ANNEX A.8	Pass	Note [2]

10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	N/A	Hopping Mode, Low/Middle/ 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]: Compared with the EUT of test report BL-SH2580963-602 the EUT of this report has changed as below：

1. Update Software Version.
2. Update Hardware Version.
3. Change in CLK_IN path.
4. C287, C288 changed from 18pF to 1.6 pF (C67, C68).
5. FM antenna path changed.
6. C290 changed from 1 nF to 0.47 uF (C92).
7. C314 changed from 1 nF to 0.47 uF (C91).
8. XPST_CTRL (Pin-42) of WCN3950 grounded through 0R from not connected state.
9. L-matching added for B7 Duplexer, B1261. (added series 0ohm and shunt DNI).
10. Enable Band 17. (B12 and B17 share the same RF path, as B17 is a subset of B12)
11. Update Dimensions (Approx.).

Therefore, Peak Output Power, Conducted Emission, Radiated Spurious Emission and Band Edge(Restricted-band band-edge) were tested in this report, other test refer to the test report No. BL-SH2580963-602 published by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025.

3.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
Radiated emissions (9 kHz-30 MHz)	4.00 dB
Radiated emissions (30 MHz-1 GHZ)	4.40 dB
Radiated emissions (1 GHz-18 GHz)	5.20 dB
Radiated emissions (18 GHz-40 GHz)	5.60 dB
Temperature	0.82 °C
Humidity	4.08 %

3.4 Decision Rule

☐ No Need
☒ Use General Conformity Decision Rule
☐ Use Special Conformity Decision Rule

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	42% to 53%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.5℃ to +24.9℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V

4.2 Test Equipment List

Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2026.02.03	2027.02.02
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2026.02.03	2027.02.02
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2026.02.03	2027.02.02
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2026.02.03	2027.02.02
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2025.07.04	2026.07.03
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2026.02.05	2027.02.04
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2026.02.04	2027.02.03
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2026.02.04	2027.02.03
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

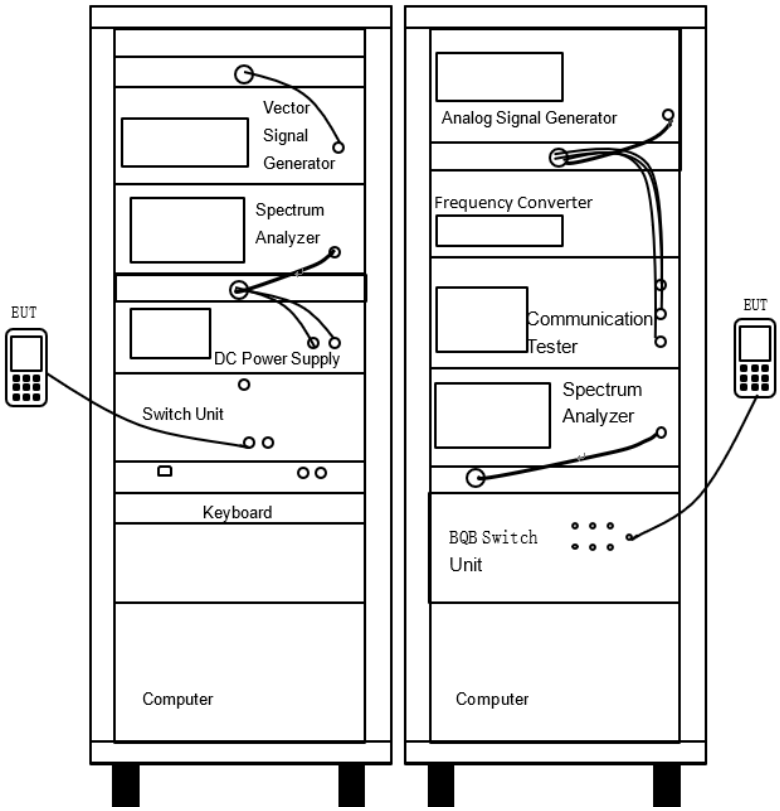
4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V3.5.2.642	N/A	The section 4.4.1
BL410-E	BALUN	V21.919	N/A	The section 4.4.3&4.4.4&4.4.5
BL410-E	BALUN	V19.618	N/A	The section 4.4.2

4.4 Description of Test Setup

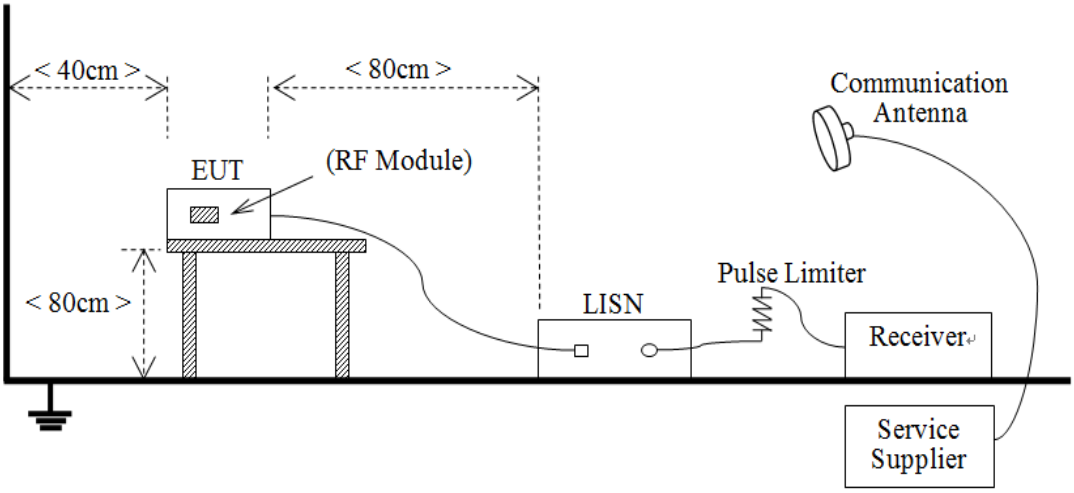
4.4.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:
Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



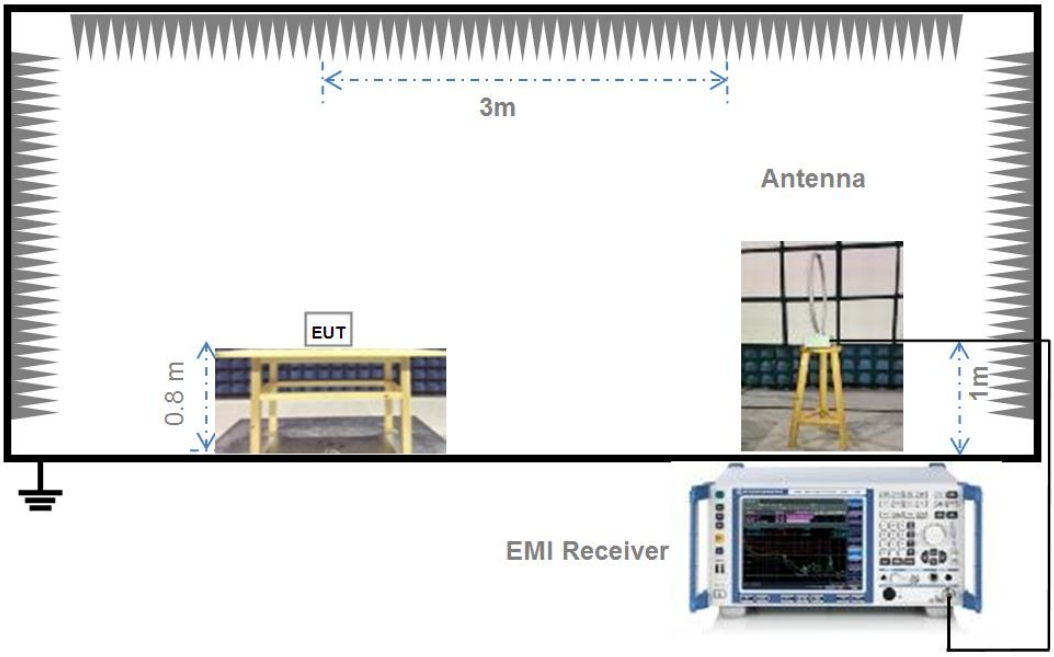
(Diagram 1)

4.4.2 For AC Power Supply Port Test



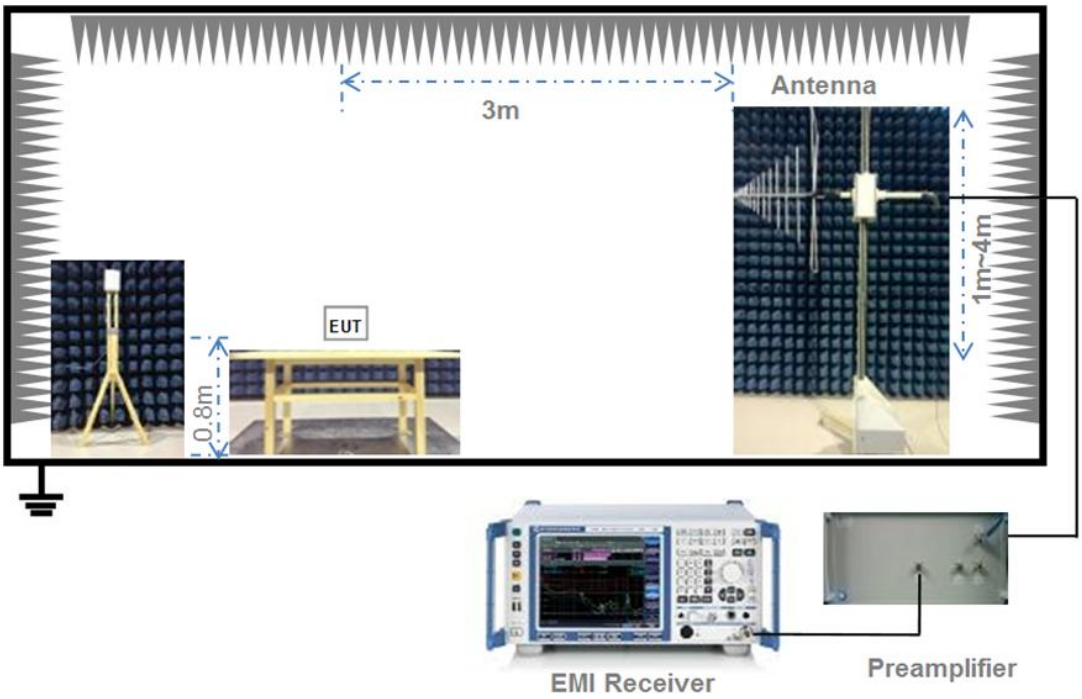
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



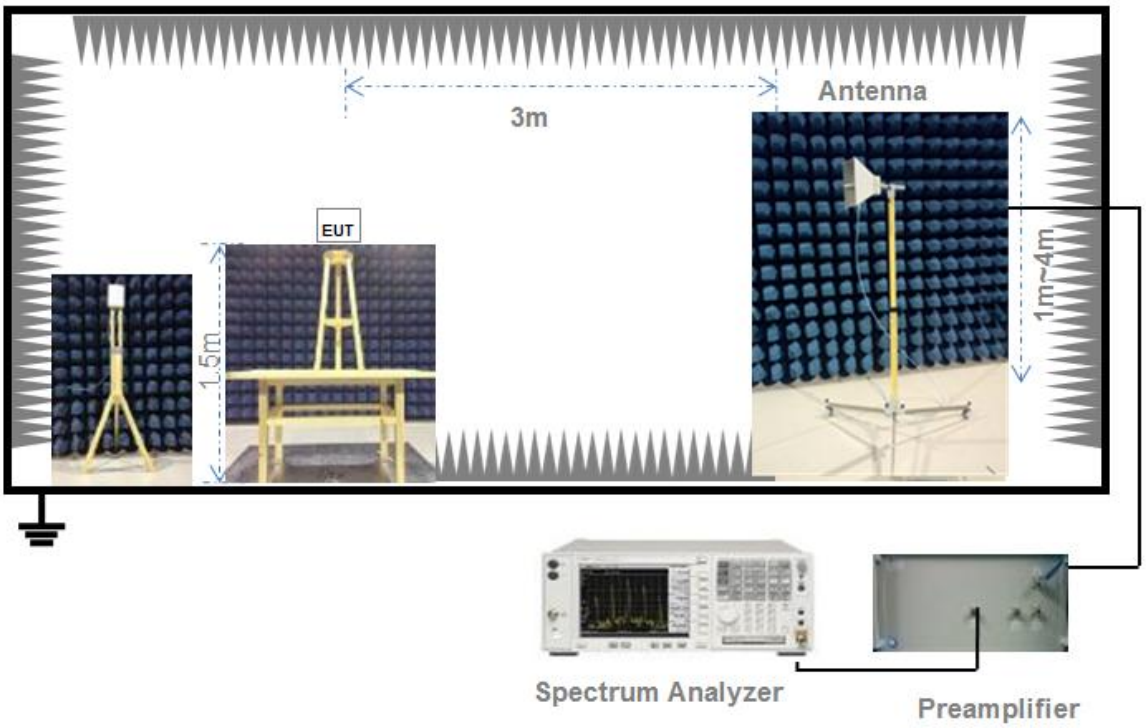
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

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

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b)

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.
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 bandwith and transmitted bandwith 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)

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 4.4.1 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 ≥ 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 4.4.1 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 ≥ 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 4.4.1 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 = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

VBW ≥ RBW

Sweep = No faster than coupled (auto) time.

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 4.4.1 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) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ 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 operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

5.7.2 Test Setup

See section 4.4.1 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 ≤ channel spacing and where possible RBW should be set >> 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
{Total of Dwell} = {Pulse Time} * (1600 / 2) / {Number of Hopping Frequency} * {Period}
{Period} = 0.4 s * {Number of Hopping Frequency}
For DH3 package type
{Total of Dwell} = {Pulse Time} * (1600 / 4) / {Number of Hopping Frequency} * {Period}
{Period} = 0.4 s * {Number of Hopping Frequency}
For DH5 package type
{Total of Dwell} = {Pulse Time} * (1600 / 6) / {Number of Hopping Frequency} * {Period}
{Period} = 0.4 s * {Number of Hopping Frequency}
For AFH Mode:
For DH1 package type
{Total of Dwell} = {Pulse Time} * (800 / 2) / {Number of Hopping Frequency} * {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 4.4.1 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 50μH/50Ω line impedance stabilization network (LISN).

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

5.9.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.
Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.7.

5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d)

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

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

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

Note:

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

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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 4.4.3 to 4.4.5 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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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 frequencies

Note: The Number of Hopping frequencies, please refer to the Report No. BL-SH2580963-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025. ANNEX A.1.

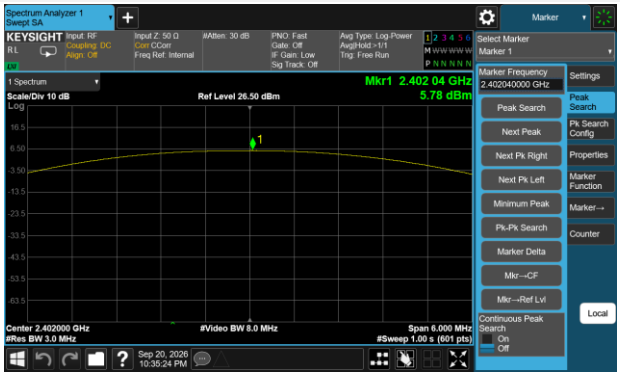
A.2 Peak Output Power

Peak Power Test Data

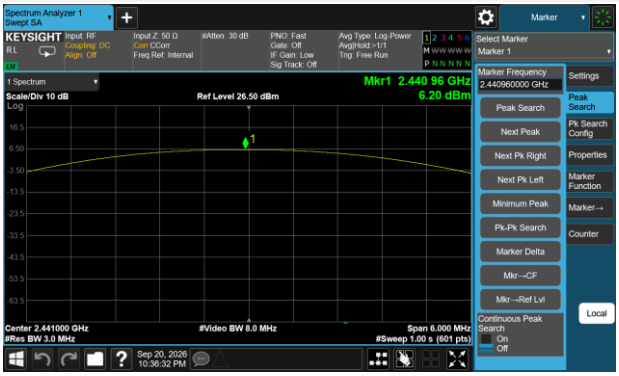
Channel	Measured Output Peak Power						Limit		Verdict
	GFSK		π/4-DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW	dBm	mW			
Low	5.78	3.78	6.36	4.33	6.46	4.43	21	125	Pass
Middle	6.20	4.17	6.77	4.75	6.91	4.91			Pass
High	5.01	3.17	5.60	3.63	5.73	3.74			Pass

Test Plots

GFSK LOW CHANNEL

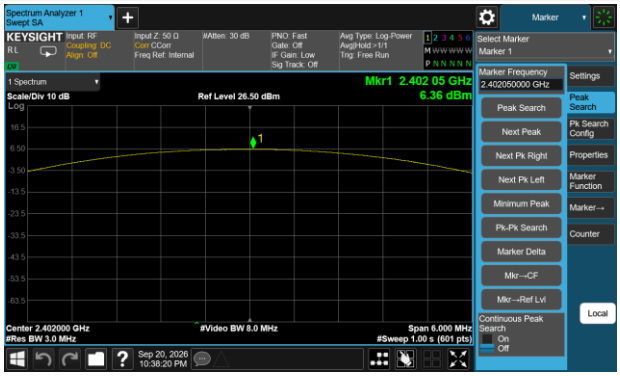


GFSK MIDDLE CHANNEL

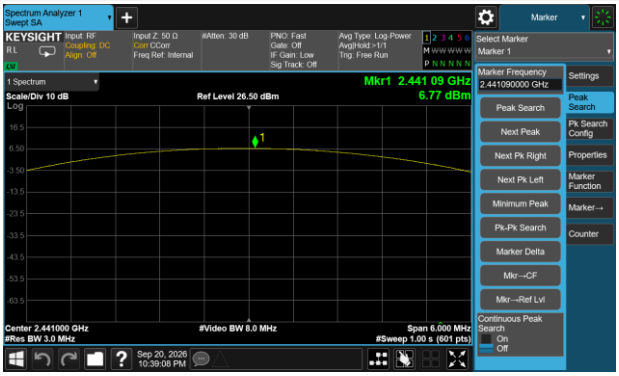


GFSK HIGH CHANNEL

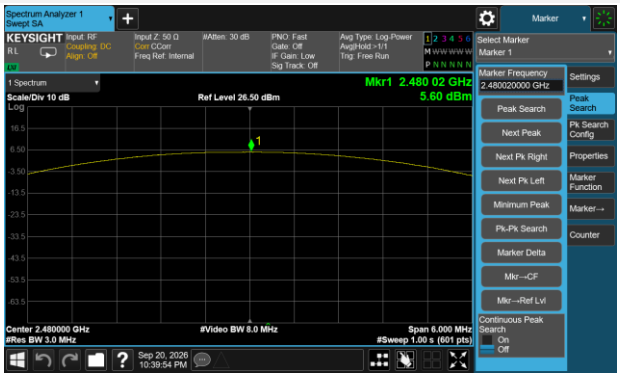
π/4-DQPSK LOW CHANNEL



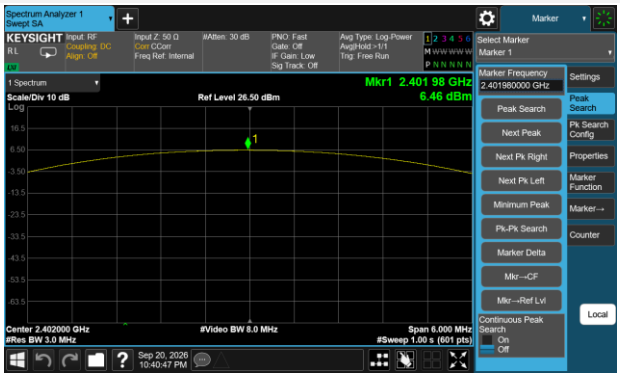
π/4-DQPSK MIDDLE CHANNEL



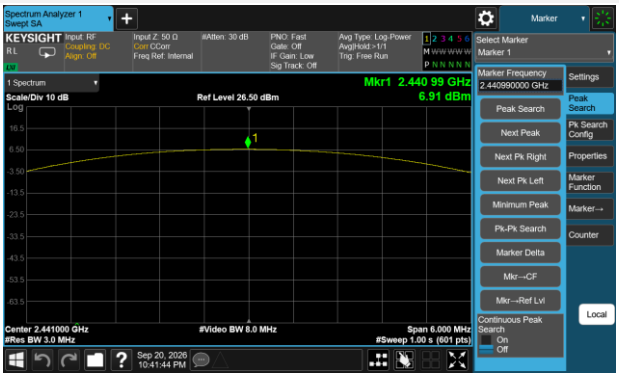
π/4-DQPSK HIGH CHANNEL



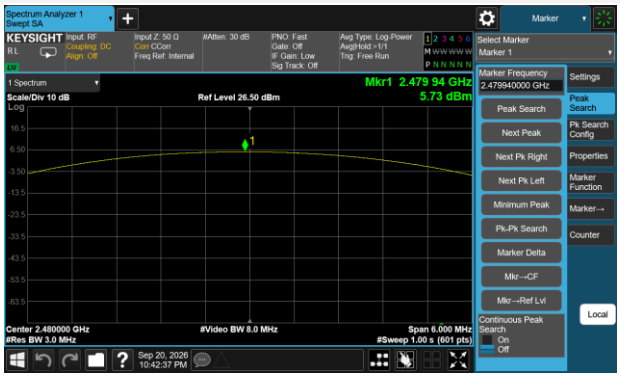
8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



A.3 Occupied Bandwidth

Note: The Occupied Bandwidth, please refer to the Report No. BL-SH2580963-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025. ANNEX A.3.

A.4 Carrier Frequency Separation

Note: The Carrier Frequency Separation, please refer to the Report No. BL-SH2580963-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025. ANNEX A.4.

A.5 Time of Occupancy (Dwell time)

Note: The Time of Occupancy (Dwell time), please refer to the Report No. BL-SH2580963-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025. ANNEX A.5.

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

Note: The Conducted Spurious Emissions & Authorized-band band-edge, please refer to the Report No. BL-SH2580963-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Sep. 12, 2025. ANNEX A.6.

A.7 Conducted Emissions

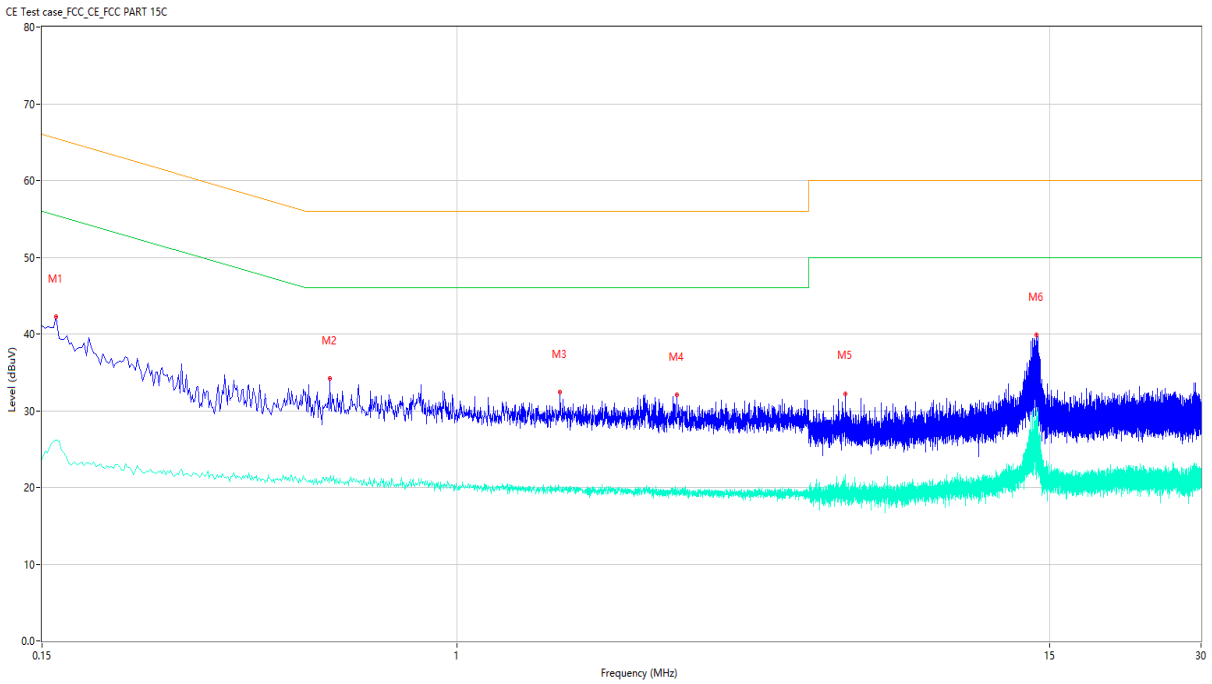
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

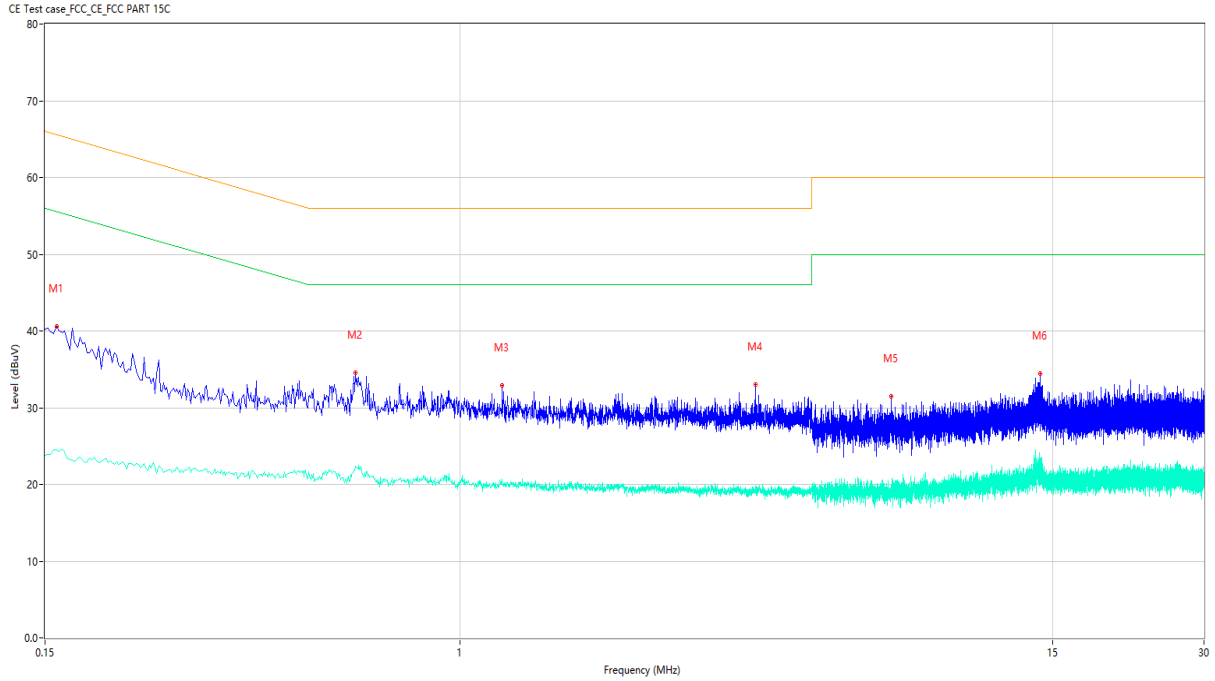
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	42.19	10.21	65.46	23.27	Peak	L	Pass
1**	0.160	26.20	10.21	55.46	29.26	AV	L	Pass
2	0.560	34.17	10.25	56.00	21.83	Peak	L	Pass
2**	0.560	21.15	10.25	46.00	24.85	AV	L	Pass
3	1.600	32.43	10.29	56.00	23.57	Peak	L	Pass
3**	1.600	19.67	10.29	46.00	26.33	AV	L	Pass
4	2.732	32.01	10.31	56.00	23.99	Peak	L	Pass
4**	2.732	19.39	10.31	46.00	26.61	AV	L	Pass
5	5.896	32.23	10.36	60.00	27.77	Peak	L	Pass
5**	5.896	21.67	10.36	50.00	28.33	AV	L	Pass
6	14.142	39.88	10.74	60.00	20.12	Peak	L	Pass
6**	14.142	29.95	10.74	50.00	20.05	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	40.58	10.21	65.57	24.99	Peak	N	Pass
1**	0.158	24.49	10.21	55.57	31.08	AV	N	Pass
2	0.620	34.57	10.14	56.00	21.43	Peak	N	Pass
2**	0.620	22.34	10.14	46.00	23.66	AV	N	Pass
3	1.214	32.90	10.14	56.00	23.10	Peak	N	Pass
3**	1.214	20.10	10.14	46.00	25.90	AV	N	Pass
4	3.864	33.03	10.18	56.00	22.97	Peak	N	Pass
4**	3.864	19.15	10.18	46.00	26.85	AV	N	Pass
5	7.180	31.48	10.24	60.00	28.52	Peak	N	Pass
5**	7.180	19.77	10.24	50.00	30.23	AV	N	Pass
6	14.184	34.40	10.58	60.00	25.60	Peak	N	Pass
6**	14.184	21.95	10.58	50.00	28.05	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, 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.

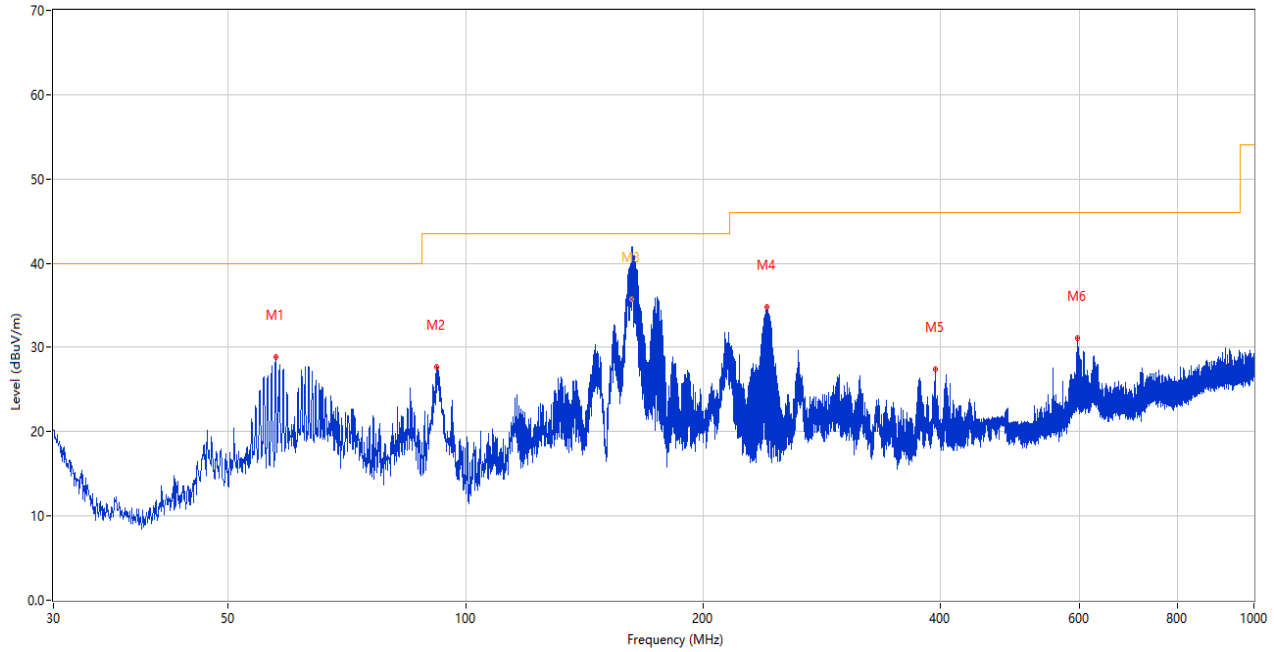
Note [3]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

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.

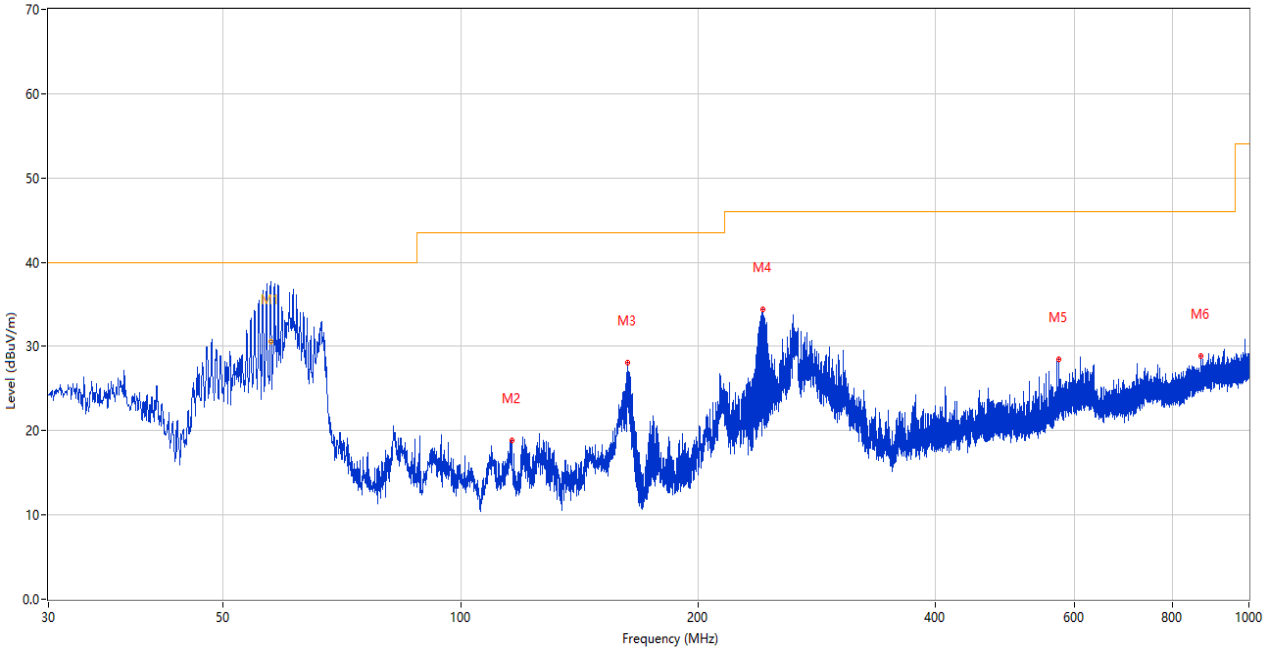
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.403	28.93	-25.68	40.0	11.07	Peak	332.00	100	Horizontal	Pass
2	91.886	27.67	-27.73	43.5	15.83	Peak	236.00	100	Horizontal	Pass
3	162.405	41.92	-28.87	43.5	1.58	Peak	133.00	100	Horizontal	N/A
3*	162.405	35.69	-28.87	43.5	7.81	QP	133.00	100	Horizontal	Pass
4	241.314	34.77	-24.70	46.0	11.23	Peak	31.00	100	Horizontal	Pass
5	394.574	27.47	-20.94	46.0	18.53	Peak	54.00	200	Horizontal	Pass
6	596.674	31.11	-15.60	46.0	14.89	Peak	66.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

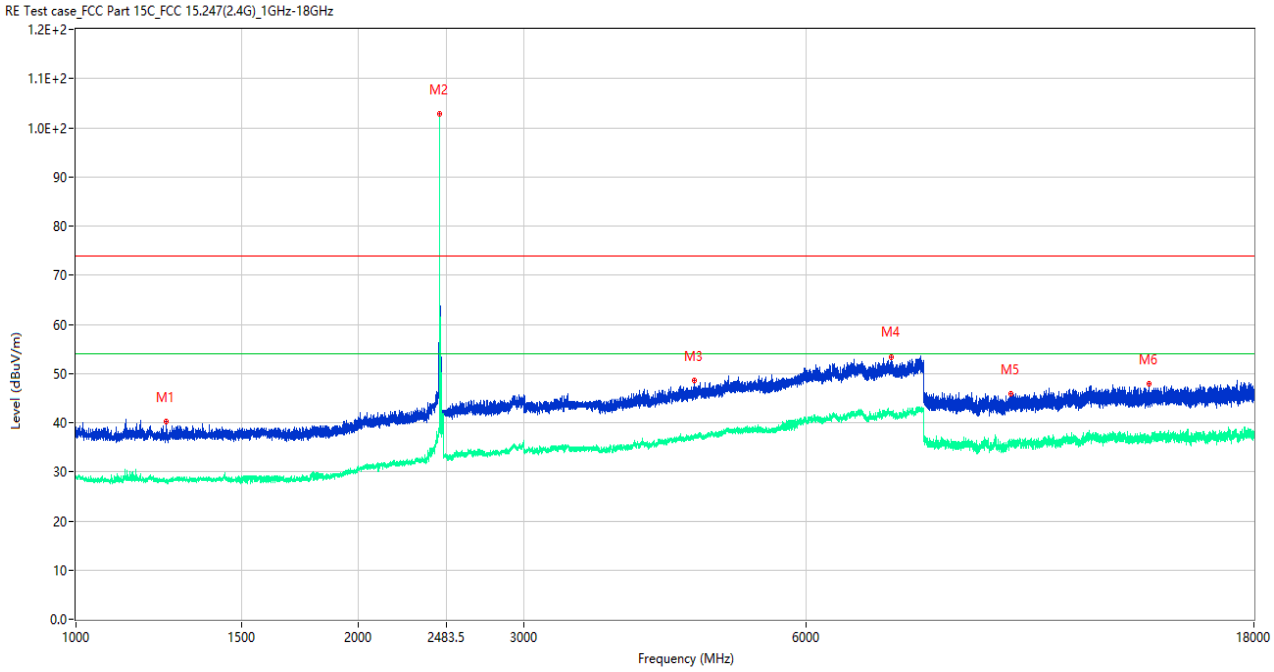


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.403	37.68	-25.68	40.0	2.32	Peak	243.00	100	Vertical	N/A
1*	57.403	30.60	-25.68	40.0	9.40	QP	243.00	100	Vertical	Pass
2	116.039	18.81	-27.70	43.5	24.69	Peak	86.00	200	Vertical	Pass
3	163.084	28.10	-28.82	43.5	15.40	Peak	208.00	200	Vertical	Pass
4	241.945	34.39	-24.63	46.0	11.61	Peak	294.00	100	Vertical	Pass
5	574.024	28.42	-16.92	46.0	17.58	Peak	360.00	100	Vertical	Pass
6	868.274	28.83	-10.63	46.0	17.17	Peak	40.00	100	Vertical	Pass

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

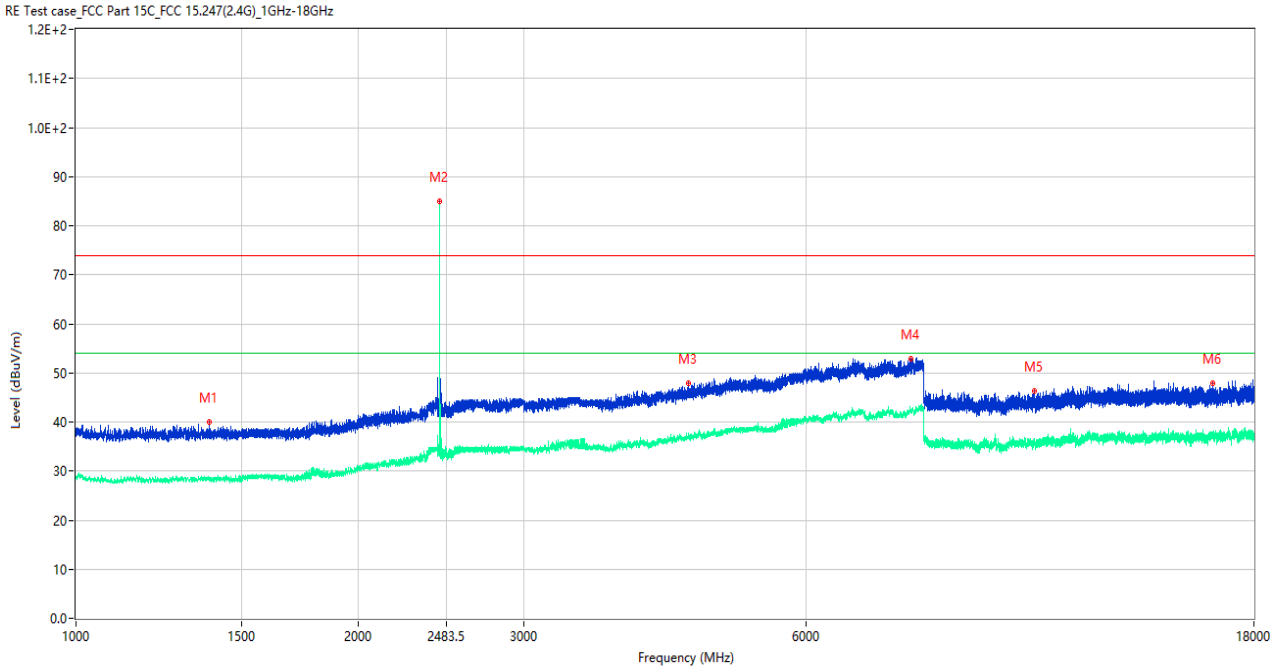
Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



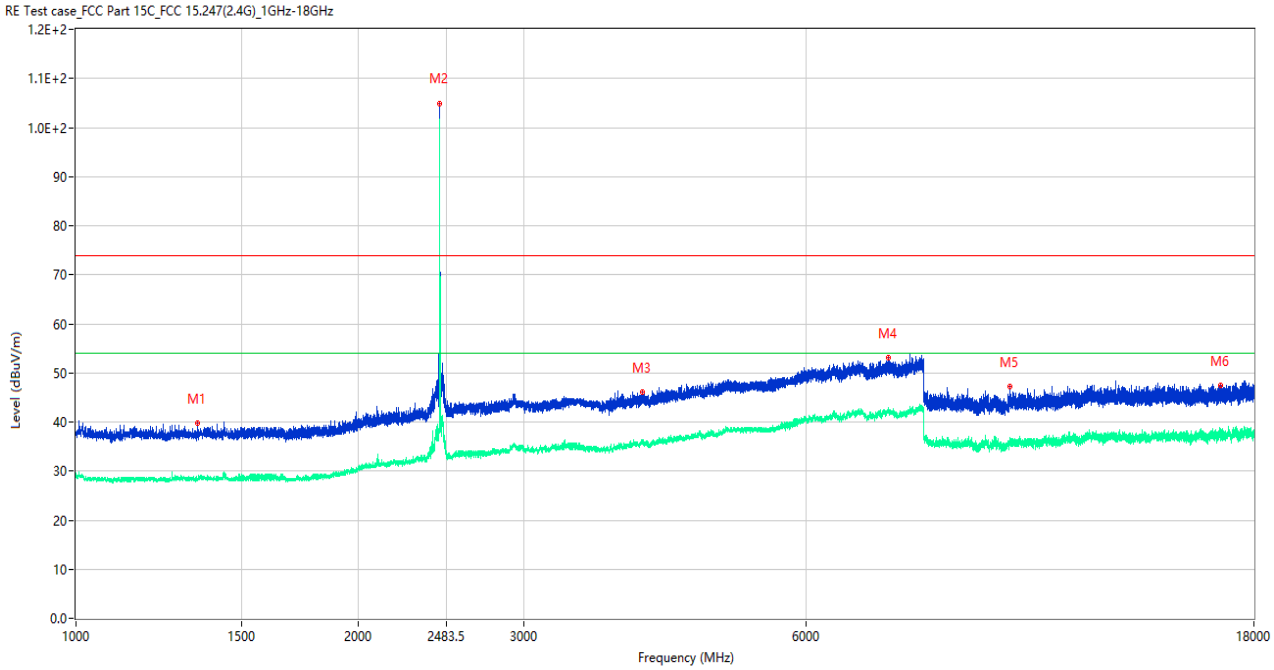
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1246.750	40.14	-16.14	74.0	33.86	Peak	227.00	150	Horizontal	Pass
1**	1246.750	28.52	-16.14	54.0	25.48	AV	227.00	150	Horizontal	Pass
2	2441.250	102.86	-12.40	74.0	-28.86	Peak	185.00	150	Horizontal	N/A
2**	2441.250	102.36	-12.40	54.0	-48.36	AV	185.00	150	Horizontal	N/A
3	4562.500	48.51	-2.74	74.0	25.49	Peak	149.00	150	Horizontal	Pass
3**	4562.500	37.25	-2.74	54.0	16.75	AV	149.00	150	Horizontal	Pass
4	7392.000	53.43	0.74	74.0	20.57	Peak	288.00	150	Horizontal	Pass
4**	7392.000	41.55	0.74	54.0	12.45	AV	288.00	150	Horizontal	Pass
5	9903.500	45.80	-4.39	74.0	28.20	Peak	291.00	150	Horizontal	Pass
5**	9903.500	35.86	-4.39	54.0	18.14	AV	291.00	150	Horizontal	Pass
6	13926.500	47.82	-2.37	74.0	26.18	Peak	360.00	150	Horizontal	Pass
6**	13926.500	36.99	-2.37	54.0	17.01	AV	360.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V



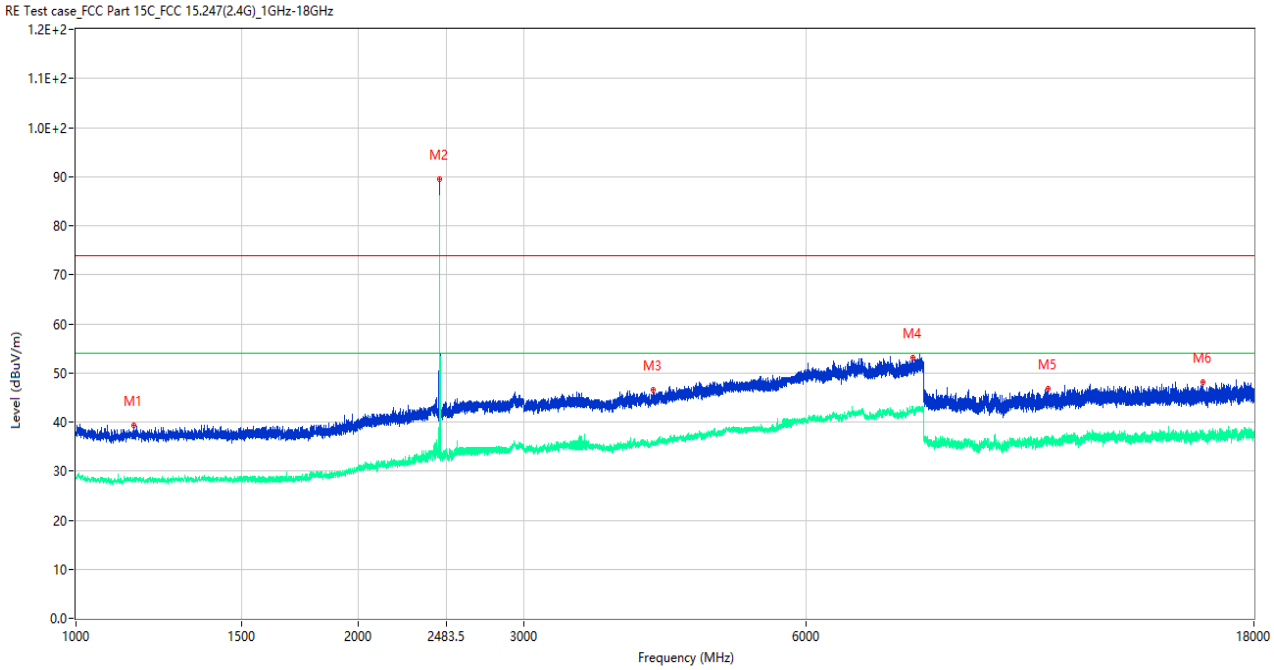
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1388.500	39.98	-15.97	74.0	34.02	Peak	292.00	150	Vertical	Pass
1**	1388.500	28.46	-15.97	54.0	25.54	AV	292.00	150	Vertical	Pass
2	2441.000	84.97	-12.39	74.0	-10.97	Peak	188.00	150	Vertical	N/A
2**	2441.000	84.03	-12.39	54.0	-30.03	AV	188.00	150	Vertical	N/A
3	4491.000	47.97	-3.30	74.0	26.03	Peak	326.00	150	Vertical	Pass
3**	4491.000	37.03	-3.30	54.0	16.97	AV	326.00	150	Vertical	Pass
4	7753.000	52.88	1.50	74.0	21.12	Peak	230.00	150	Vertical	Pass
4**	7753.000	42.43	1.50	54.0	11.57	AV	230.00	150	Vertical	Pass
5	10498.500	46.39	-3.12	74.0	27.61	Peak	154.00	150	Vertical	Pass
5**	10498.500	35.67	-3.12	54.0	18.33	AV	154.00	150	Vertical	Pass
6	16258.500	47.84	-1.59	74.0	26.16	Peak	10.00	150	Vertical	Pass
6**	16258.500	37.15	-1.59	54.0	16.85	AV	10.00	150	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	1347.000	39.81	-16.03	74.0	34.19	Peak	225.00	150	Horizontal	Pass
1**	1347.000	28.30	-16.03	54.0	25.70	AV	225.00	150	Horizontal	Pass
2	2441.000	104.95	-12.39	74.0	-30.95	Peak	56.00	150	Horizontal	N/A
2**	2441.000	101.11	-12.39	54.0	-47.11	AV	56.00	150	Horizontal	N/A
3	4019.000	46.00	-4.02	74.0	28.00	Peak	356.00	150	Horizontal	Pass
3**	4019.000	36.03	-4.02	54.0	17.97	AV	356.00	150	Horizontal	Pass
4	7343.500	53.06	1.16	74.0	20.94	Peak	98.00	150	Horizontal	Pass
4**	7343.500	42.25	1.16	54.0	11.75	AV	98.00	150	Horizontal	Pass
5	9902.500	47.28	-4.41	74.0	26.72	Peak	127.00	150	Horizontal	Pass
5**	9902.500	35.77	-4.41	54.0	18.23	AV	127.00	150	Horizontal	Pass
6	16580.500	47.40	-0.93	74.0	26.60	Peak	0.00	150	Horizontal	Pass
6**	16580.500	37.23	-0.93	54.0	16.77	AV	0.00	150	Horizontal	Pass

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



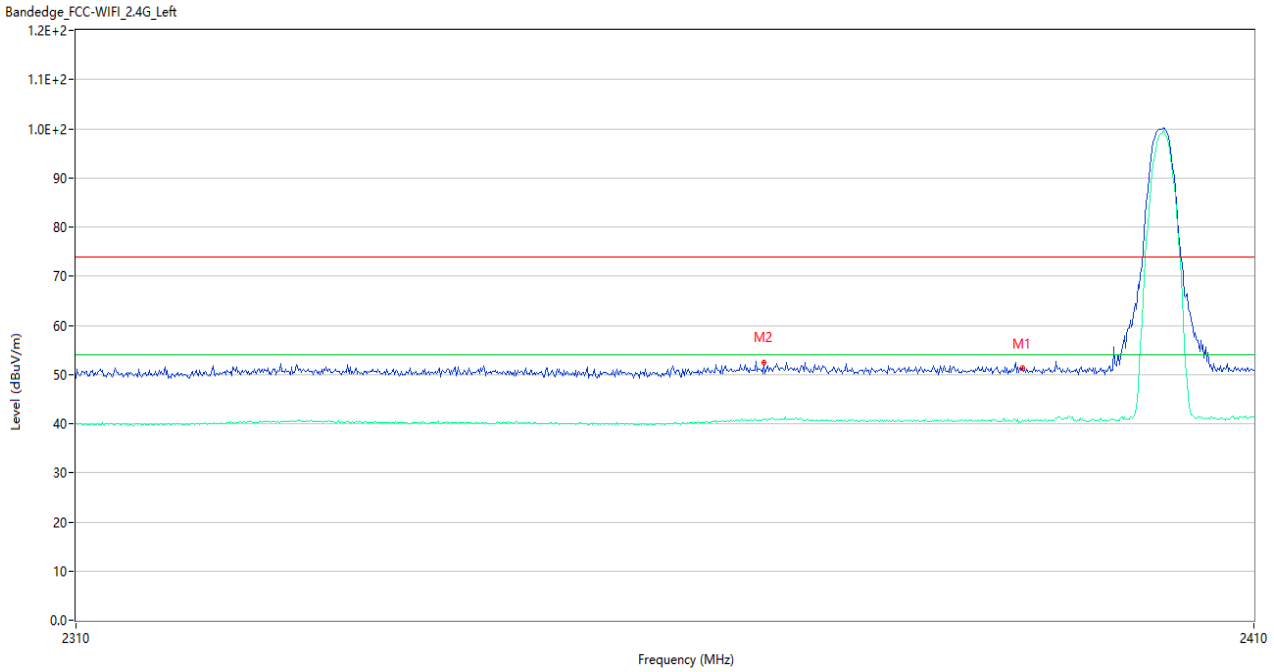
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1152.250	39.31	-15.66	74.0	34.69	Peak	154.00	150	Vertical	Pass
1**	1152.250	28.20	-15.66	54.0	25.80	AV	154.00	150	Vertical	Pass
2	2441.000	89.40	-12.39	74.0	-15.40	Peak	102.00	150	Vertical	N/A
2**	2441.000	86.16	-12.39	54.0	-32.16	AV	102.00	150	Vertical	N/A
3	4126.000	46.56	-4.54	74.0	27.44	Peak	0.00	150	Vertical	Pass
3**	4126.000	35.63	-4.54	54.0	18.37	AV	0.00	150	Vertical	Pass
4	7792.000	53.09	1.63	74.0	20.91	Peak	108.00	150	Vertical	Pass
4**	7792.000	42.10	1.63	54.0	11.90	AV	108.00	150	Vertical	Pass
5	10875.000	46.68	-3.25	74.0	27.32	Peak	208.00	150	Vertical	Pass
5**	10875.000	36.60	-3.25	54.0	17.40	AV	208.00	150	Vertical	Pass
6	15885.000	48.12	-1.51	74.0	25.88	Peak	236.00	150	Vertical	Pass
6**	15885.000	37.37	-1.51	54.0	16.63	AV	236.00	150	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, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.
Note [4]: The Level (dBuV/m) has been corrected by factor.

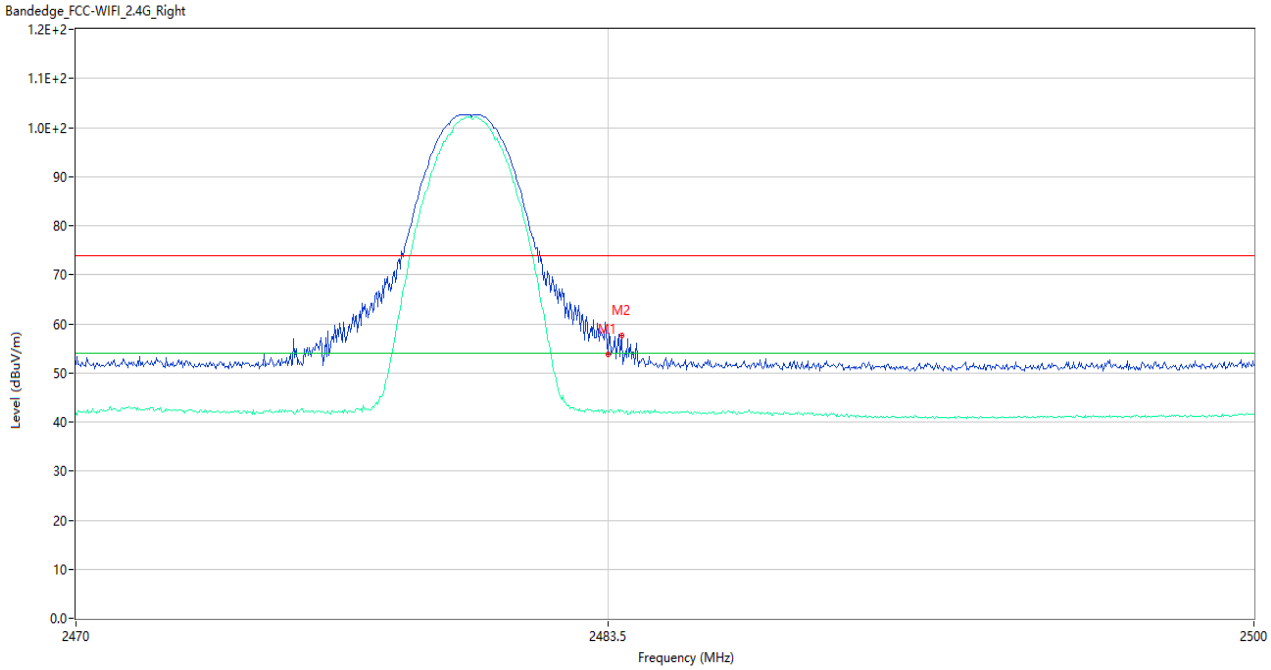
Test Data and Plots

GFSK LOW CHANNEL



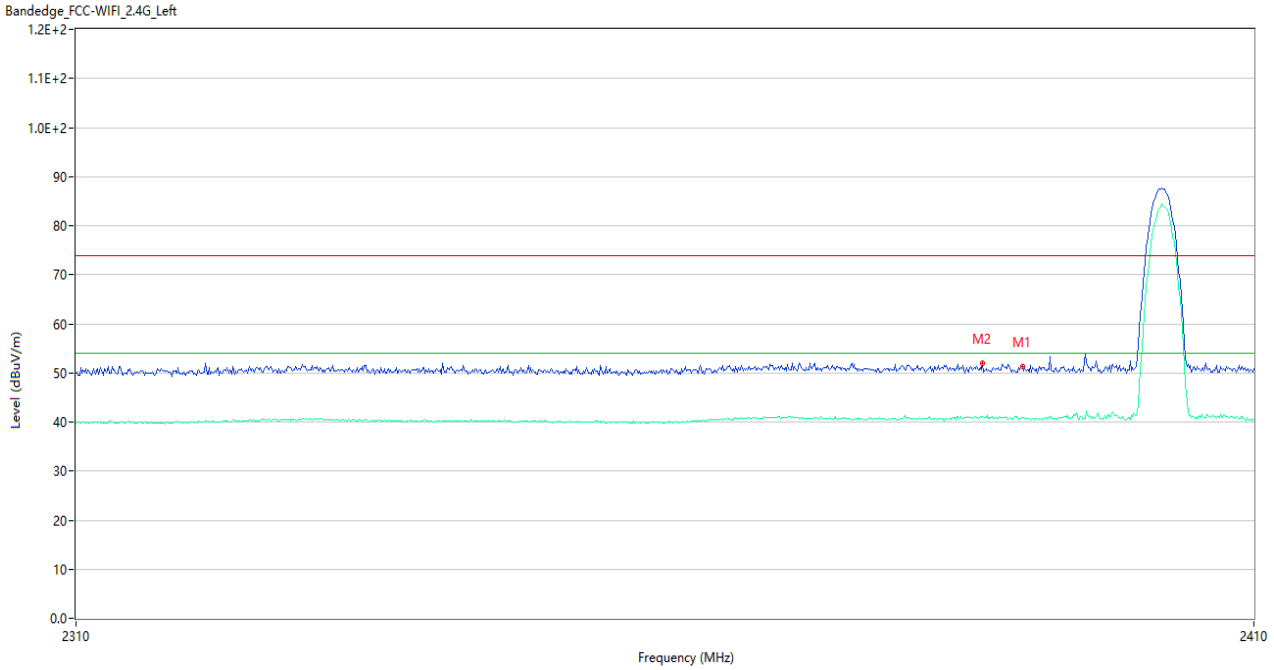
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	51.26	-4.87	74.0	22.74	Peak	31.14	150	Horizontal	Pass
1**	2390.000	40.63	-4.87	54.0	13.37	AV	31.14	150	Horizontal	Pass
2	2367.900	52.41	-4.23	74.0	21.59	Peak	13.00	150	Horizontal	Pass
2**	2367.900	40.83	-4.23	54.0	13.17	AV	13.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



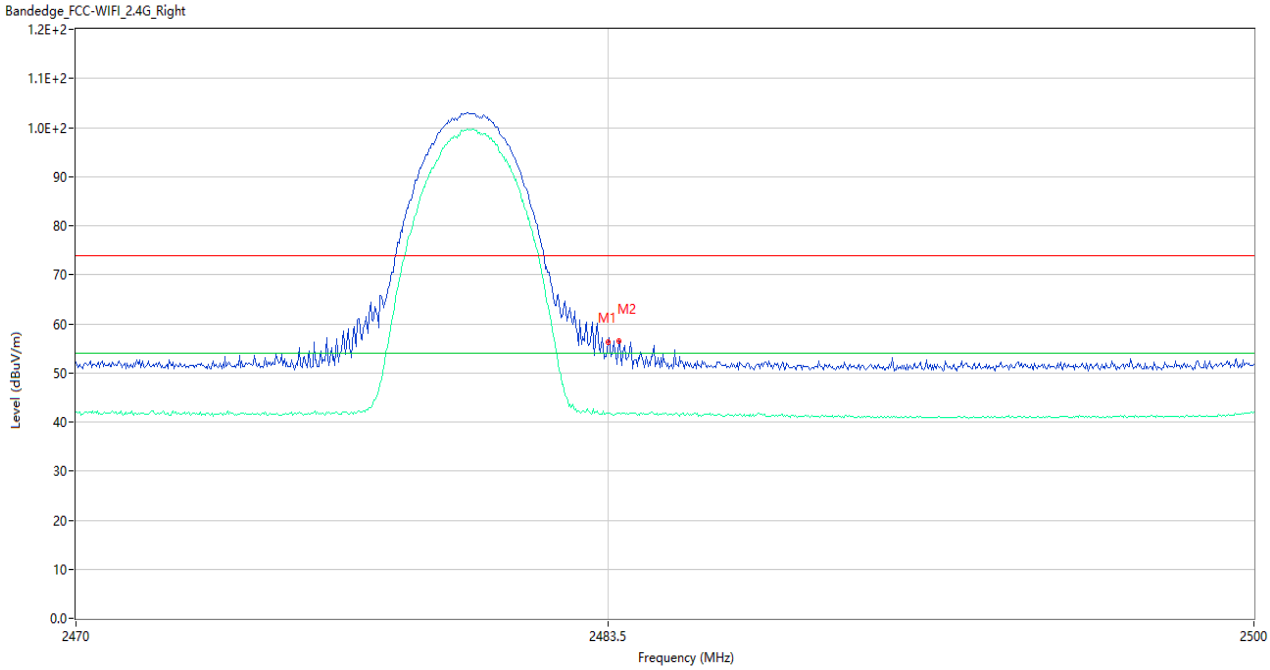
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.78	-3.78	74.0	20.22	Peak	156.00	150	Horizontal	Pass
1**	2483.500	42.10	-3.78	54.0	11.90	AV	156.00	150	Horizontal	Pass
2	2483.860	57.56	-3.78	74.0	16.44	Peak	54.00	150	Horizontal	Pass
2**	2483.860	42.23	-3.78	54.0	11.77	AV	54.00	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	2390.000	51.26	-4.87	74.0	22.74	Peak	277.00	150	Vertical	Pass
1**	2390.000	40.83	-4.87	54.0	13.17	AV	277.00	150	Vertical	Pass
2	2386.600	51.93	-4.67	74.0	22.07	Peak	0.00	150	Vertical	Pass
2**	2386.600	41.21	-4.67	54.0	12.79	AV	0.00	150	Vertical	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	56.23	-3.78	74.0	17.77	Peak	151.00	150	Horizontal	Pass
1**	2483.500	41.88	-3.78	54.0	12.12	AV	151.00	150	Horizontal	Pass
2	2483.770	56.41	-3.78	74.0	17.59	Peak	56.00	150	Horizontal	Pass
2**	2483.770	41.90	-3.78	54.0	12.10	AV	56.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26090010-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26090010-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26090010-AI.PDF”.

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--END OF REPORT--