



TEST REPORT

Applicant: Arashi Vision Inc.
Address: 11th Floor, Building 2, Jinlitong Financial Center,
Bao'an District, 51800 Shenzhen, Guangdong,
China.
Equipment Type: Insta360 Mic Transmitter
Model Name: MC120
Brand Name: Insta360
FCC ID: 2AWWH-MC120
ISED Number: 26293-MC120
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Jun. 04, 2026
Test Date: Jun. 05, 2026 - Jul. 23, 2026
Date of Issue: Aug. 03, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Yang Wenxuan**Checked by:** Li Ganming**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 03, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
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 CAB identifier number is CN0030.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Arashi Vision Inc.
Address	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 51800 shenzhen, Guangdong, China.

2.2 Manufacturer Information

Manufacturer	Arashi Vision Inc.
Address	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 51800 shenzhen, Guangdong, China.

2.3 General Description for Equipment under Test (EUT)

EUT Name	Insta360 Mic Transmitter
Model Name Under Test	MC120
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	BZEF3ABGQS5MSA
Hardware Version	V01
Software Version	V1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G ISM Band
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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
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Transfer Rate	1 Mbps, 2 Mbps
Frequency Range	The frequency range used is 2402 MHz – 2480 MHz; The frequency block is 2400 MHz to 2483.5 MHz.
Number of Channel	40 (at intervals of 2 MHz) ^{note1}
Tested Channel	1Mbps: 0 (2402 MHz), 19 (2440 MHz), 39 (2480 MHz) 2Mbps: 1 (2404 MHz), 19 (2440 MHz), 38 (2478 MHz)
Antenna Type	FPC Antenna
Antenna Gain	2.64 dBi
Adaptive or Non-Adaptive	Non-Adaptive
The Max RF Output power	14.60 dBm
Note1: 2Mbps does not support Channel 0, Channel 12, Channel 39.	

All channel was listed on the following table:

1M:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
1	2402	11	2422	21	2442	31	2462
2	2404	12	2424	22	2444	32	2464
3	2406	13	2426	23	2446	33	2466
4	2408	14	2428	24	2448	34	2468
5	2410	15	2430	25	2450	35	2470
6	2412	16	2432	26	2452	36	2472
7	2414	17	2434	27	2454	37	2474
8	2416	18	2436	28	2456	38	2476
9	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

2M:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
\	\	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	\	\	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	\	\

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 4	Digital Transmission Systems, Frequency Hopping Systems and LicenceExempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of 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 Verdict

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.5 (c)	--	Pass ^{Note 1}
2	Number of Hopping Frequency	15.247(a)	RSS-247, 6.2.3.1 (b)	ANNEX A.1	Pass
3	Peak Output Power and E.I.R.P	15.247(b)	RSS-247, 6.2.3.2	ANNEX A.2	Pass
4	Occupied Bandwidth	15.247(a)	RSS-247, 6.2.1 (a)	ANNEX A.3	Pass
5	Hopping Frequency Separation	15.247(a)	RSS-247, 6.2.3.1 (a)	ANNEX A.4	Pass
6	Time of Occupancy (Dwell time)	15.247(a)	RSS-247, 6.2.3.1 (b)	ANNEX A.5	Pass
7	Conducted Spurious Emission& Authorized-band band-edge	15.247(d)	RSS-247, 6.6	ANNEX A.6	Pass
8	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.7	Pass
9	Radiated Spurious Emission	15.209 15.247(d)	RSS-247, 6.6	ANNEX A.8	Pass
10	Band Edge (Restricted-band band-edge)	15.209 15.247(d)	RSS-247, 6.6	ANNEX A.9	Pass
11	Receiver Spurious Emissions	--	RSS-Gen, 7.3	--	N/A ^{Note 2}

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

Note ²: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.2℃ to +25.7℃
Working Voltage of the EUT	NV (Normal Voltage)	5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2026.05.11	2027.05.10
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
				2026.06.23	2027.06.22
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2026.05.12	2028.05.11
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	KEYSIGHT	N9038A	MY55330121	2025.12.26	2026.12.25
Filtering unit	BALUN	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.12.26	2026.12.25
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
				2026.06.22	2027.06.21
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04
Spectrum Analyzer	KEYSIGHT	N9020B	MY60110810	2026.03.07	2027.03.06

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V3.0.1.528	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

4.4.1 For Antenna Port Test

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

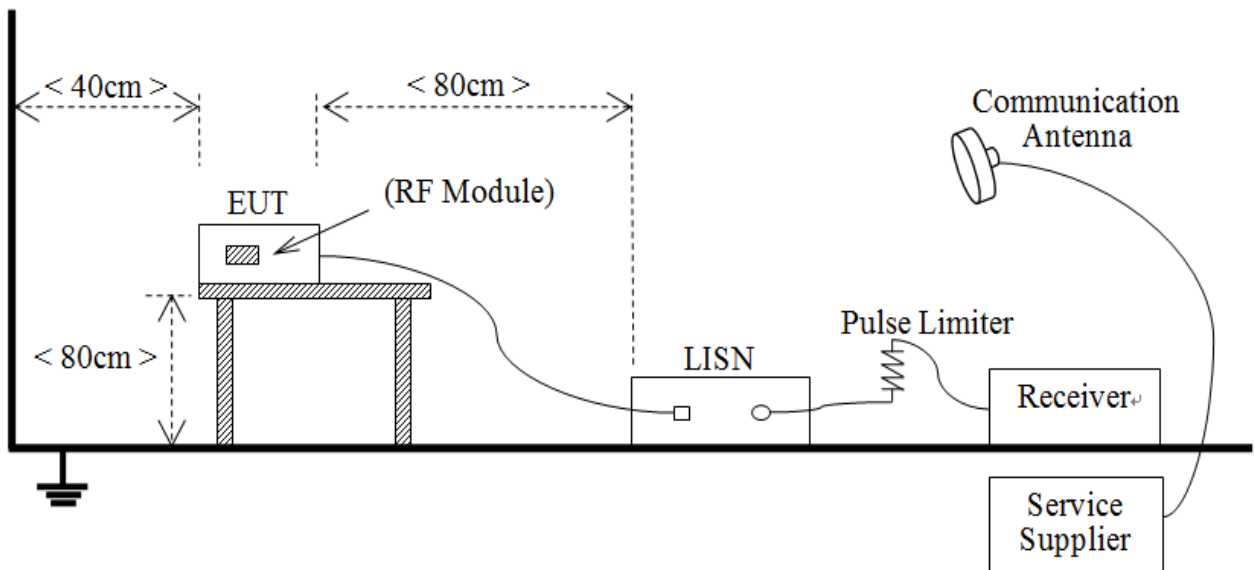
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



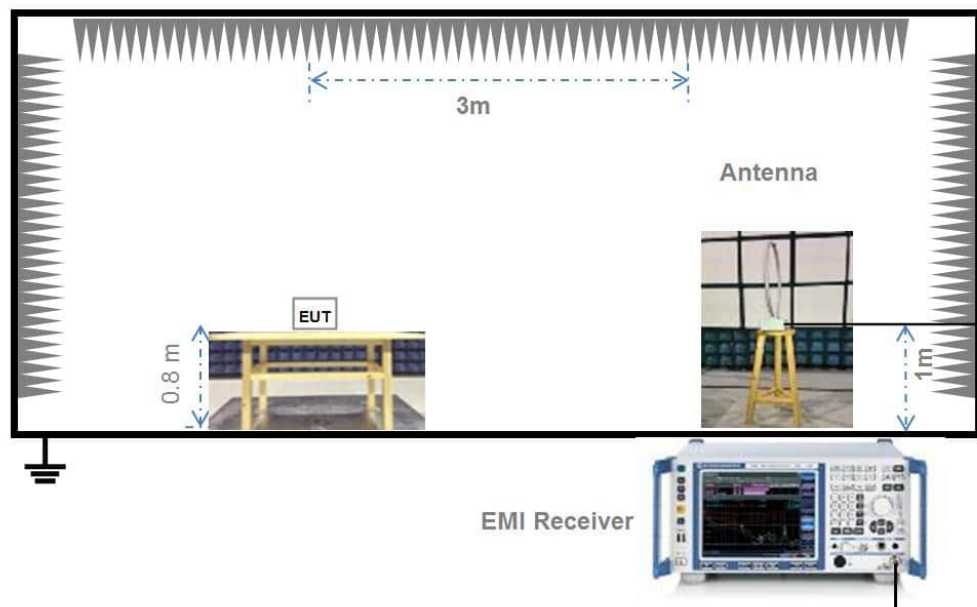
(Diagram 1)

4.4.2 For AC Power Supply Port Test



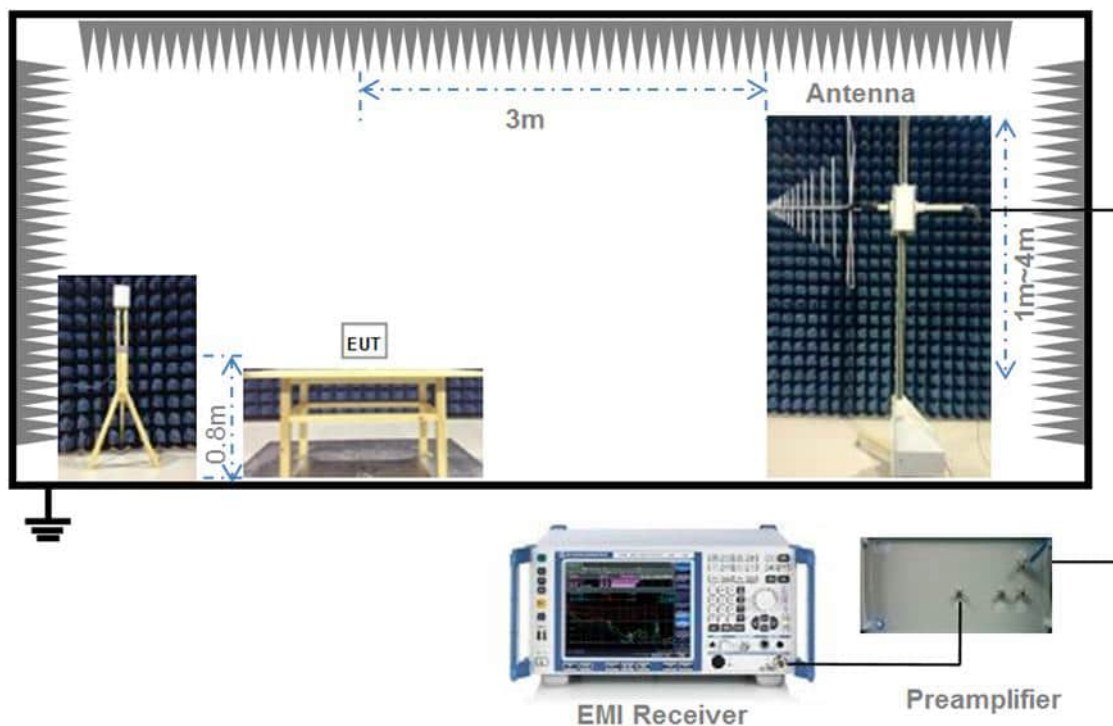
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



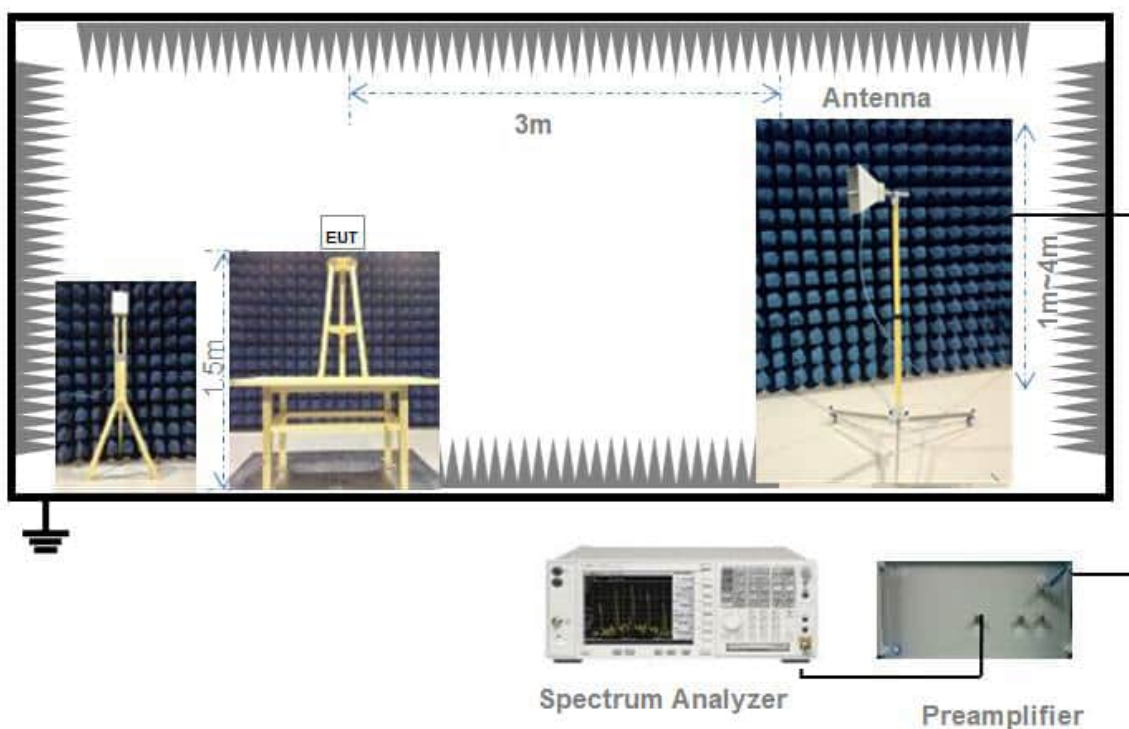
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 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.

4.5.2 For radiated band edges and spurious emission test:

Per part 15.35(c), the EUT Bluetooth average emission level could be determined by the peak emission level applying duty cycle correction factor, to represent averaging over the whole pulse train.

The average level is derived from the peak level corrected with "Duty cycle correction factor".

Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + Duty cycle correction factor (dB)

Duty cycle correction factor (dB) = $20 * \log (\text{Duty cycle})$.

Duty cycle = on time / 100 milliseconds

On time = dwell time * hopping number in 100 ms

For example: bluetooth with dwell time 2.9 ms and 3 hops in 100 ms, then

Duty cycle correction factor (dB) = $20 * \log ((2.9 * 3) / 100) = -21.21 \text{ dB}$

Following shows an average computation example with duty cycle correction factor = -21.21 dB, and the peak emission level is 45.61 dBuV/m.

Example:

Average Emission Level (dBuV/m) = Peak Emission Level (dBuV/m) + duty cycle correction factor (dB)
= $45.61 + (-21.21) = 24.4 \text{ (dBuV/m)}$

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b); RSS-247,6.5 (c)

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.	The antenna is welded on the mainboard, can't be replaced by the consumer

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 Number of Hopping Frequency

5.2.1 Limit

FCC §15.247(a) (1) (iii); RSS-247, 6.2.3.1(b)

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

5.2.2 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.

5.2.3 Test Procedure

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

Span = the frequency band of operation

RBW $\geq$ 1% of the span

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Output Power and E.I.R.P

5.3.1 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. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

RSS-247, 6.2.3.2

The following transmitter output power and e.i.r.p. requirements shall apply:

- a. if the hopset uses 75 or more hopping channels, the maximum peak conducted output power shall not exceed 1.0 W.
- b. if the hopset uses less than 75 hopping channels the maximum peak conducted output power shall not exceed 0.125 W.
- c. the e.i.r.p. shall not exceed 4 W, except as provided in sections 6.5 a) and b).

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

Use the following spectrum analyzer settings:

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

RBW > the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a); RSS-247, 6.2.1 (a)

Measurement of the 20dB bandwidth of the modulated signal.

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

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq$ 1% of the 20 dB bandwidth

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.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a); RSS-247, 6.2.3.1(a)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

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

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.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a); RSS-247, 6.2.3.1(b)

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.

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

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * \{\text{Number of Hopping Frequency in Period}\}$$

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

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

5.6.4 Test Result

Please refer to ANNEX A.5

5.7 Conducted Spurious Emission & Authorized-band band-edge

5.7.1 Limit

FCC §15.247(d); RSS-247, 6.6

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.

5.7.2 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

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 $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Conducted Emission

5.8.1 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

5.8.2 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.

5.8.3 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.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

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) = $20 \times \log[\text{Field Strength } (\mu\text{V/m})]$.
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).

5.9.2 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.

5.9.3 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.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Band Edge (Restricted-band band-edge)

5.10.1 Limit

FCC §15.209&15.247(d); RSS-247, 6.6

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).

5.10.2 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.9.

ANNEX A TEST RESULT

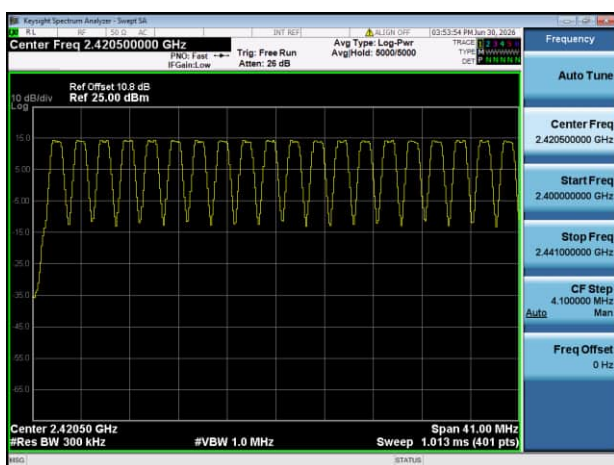
A.1 Number of Hopping Frequency

Test Data

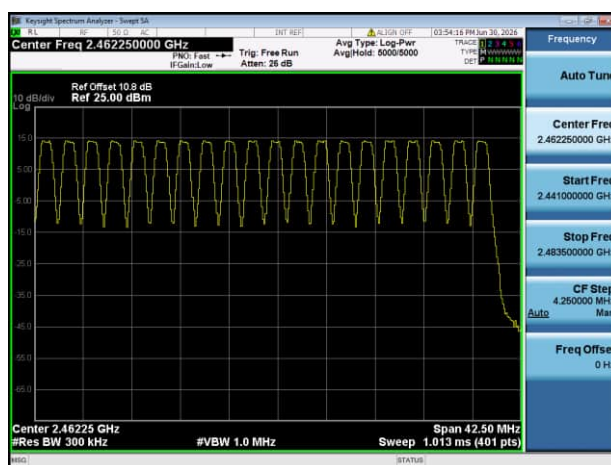
Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
1M	2400 - 2483.5	40	15	Pass
2M	2400 - 2483.5	40	15	Pass

Test Plots

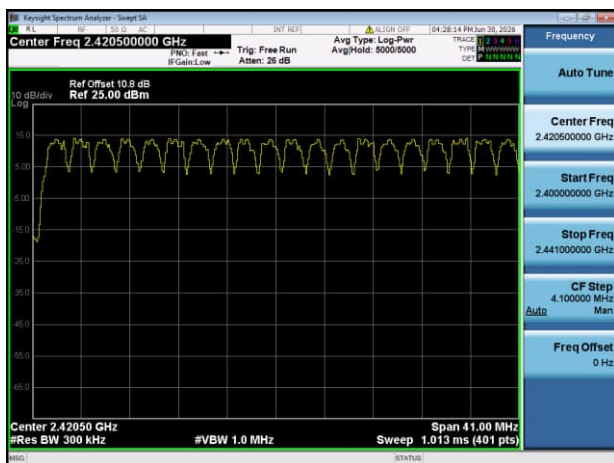
1M 2.4 GHz ~ 2.4835 GHz



1M 2.4 GHz ~ 2.4835 GHz



2M 2.4 GHz ~ 2.4835 GHz



2M 2.4 GHz ~ 2.4835 GHz



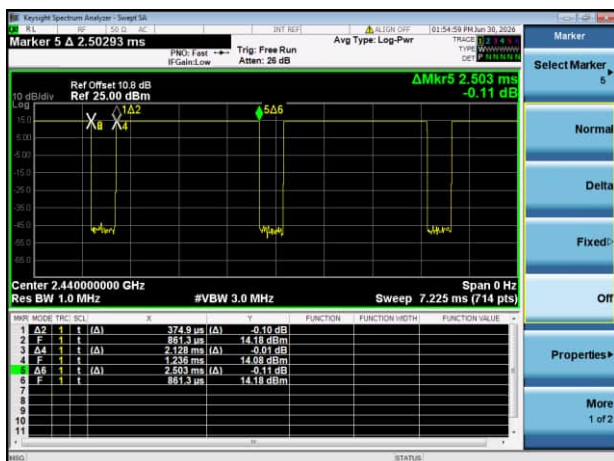
A.2 Peak Output Power and E.I.R.P

Duty Cycle

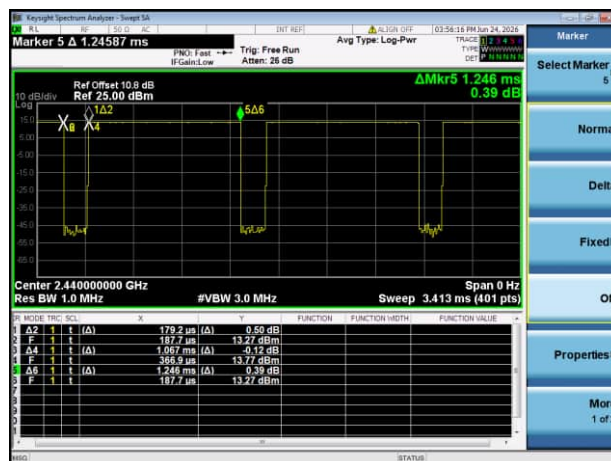
Test Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle	Duty Factor
1M	2.128	2.503	85.02%	0.70
2M	1.067	1.246	85.63%	0.67

Test Plots

1M



2M



Peak Power Test Data

Channel	Measured Output Peak Power		Limit		Verdict
	1M		dBm	mW	
	dBm	mW			
Low	14.59	28.78	21	125	Pass
Middle	14.41	27.62			Pass
High	14.31	26.96			Pass

Channel	Measured Output Peak Power		Limit		Verdict
	2M		dBm	mW	
	dBm	mW			
Low	14.60	28.83	21	125	Pass
Middle	14.34	27.16			Pass
High	14.37	27.35			Pass

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

Channel	E.I.R.P		Limit		Verdict
	1M		dBm	mW	
	dBm	mW			
Low	17.23	52.86	36	4000	Pass
Middle	17.05	50.72			Pass
High	16.95	49.51			Pass

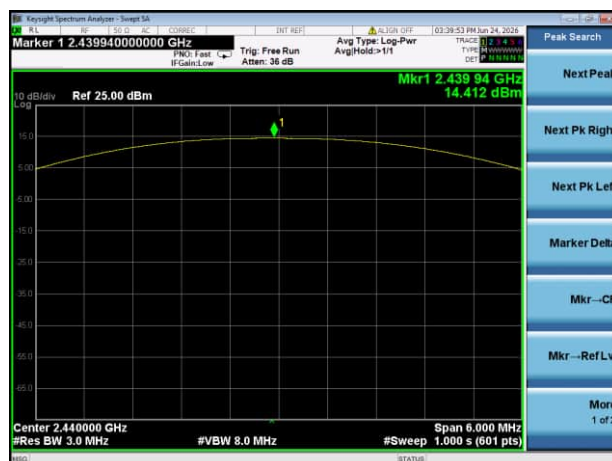
Channel	E.I.R.P		Limit		Verdict
	2M		dBm	mW	
	dBm	mW			
Low	17.24	52.95	36	4000	Pass
Middle	16.98	49.89			Pass
High	17.01	50.23			Pass

Test Plots

1M LOW CHANNEL



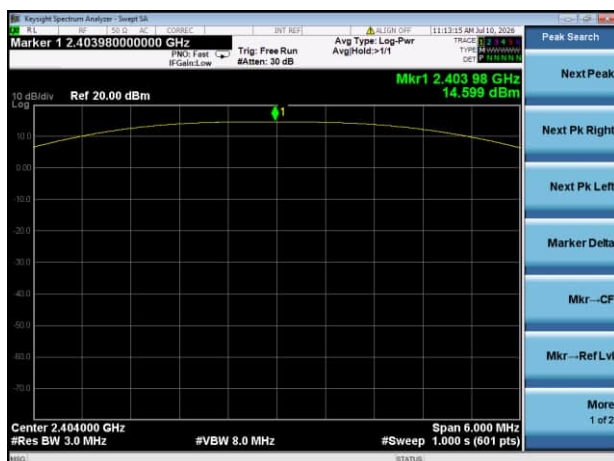
1M MIDDLE CHANNEL



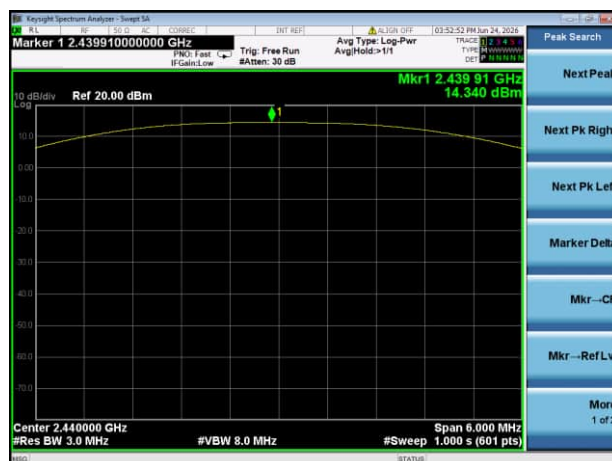
1M HIGH CHANNEL



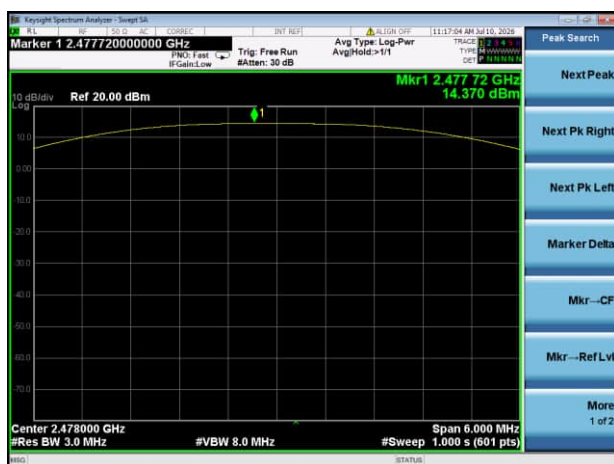
2M LOW CHANNEL



2M MIDDLE CHANNEL



2M HIGH CHANNEL



A.3 Occupied Bandwidth

Test Data

1M		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.169900	1.043900
Middle	1.169900	1.042600
High	1.177500	1.042600

2M		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	2.190000	2.065800
Middle	2.190000	2.062600
High	2.190000	2.063900

Test Plots

20 dB Bandwidth

1M LOW CHANNEL



1M MIDDLE CHANNEL



1M HIGH CHANNEL



2M LOW CHANNEL



2M MIDDLE CHANNEL



2M HIGH CHANNEL



99% Bandwidth

1M LOW CHANNEL



1M MIDDLE CHANNEL



1M HIGH CHANNEL



2M LOW CHANNEL



2M MIDDLE CHANNEL



2M HIGH CHANNEL



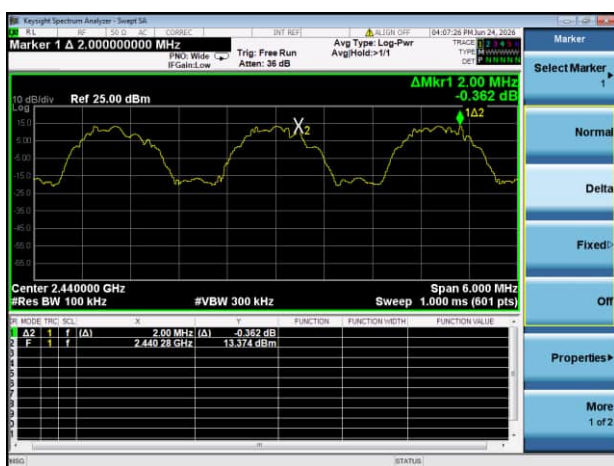
A.4 Hopping Frequency Separation

Test Data

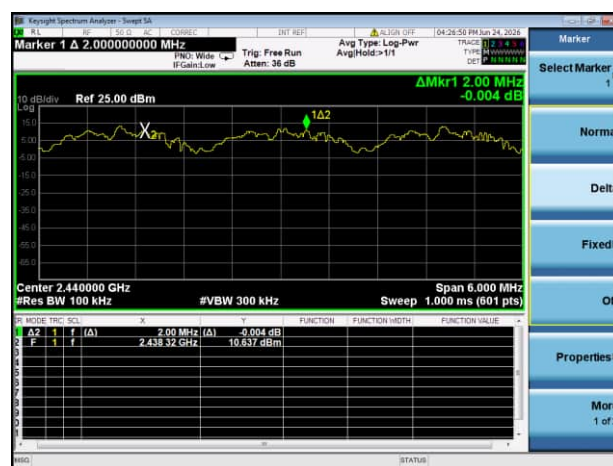
Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
1M	2.000	0.785	Pass
2M	2.000	1.460	Pass

Test Plots

1M



2M



A.5 Time of Occupancy (Dwell time)

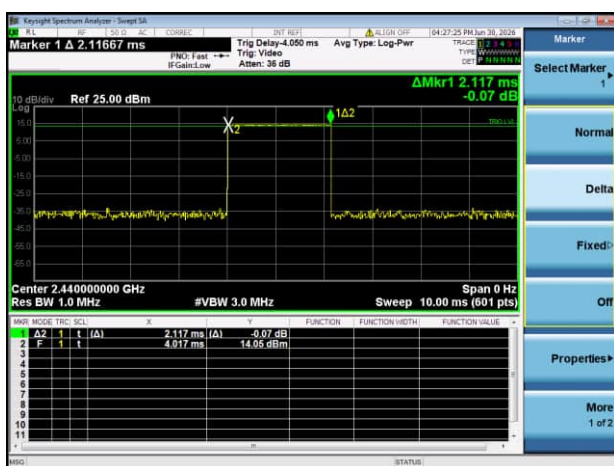
Test Data

1M				
Test Mode	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
Hopping	2.11700	4.017	0.4	Pass

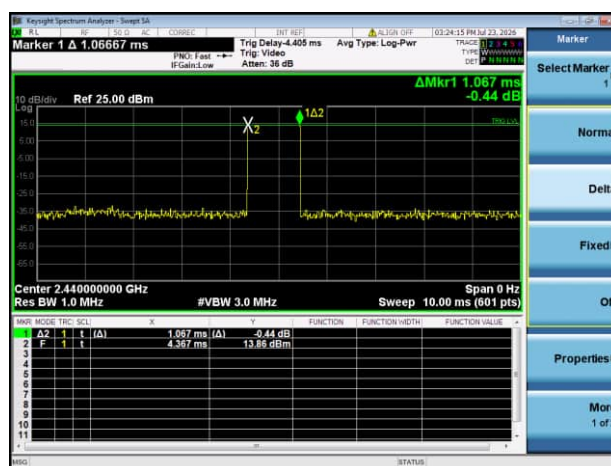
2M				
Test Mode	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
Hopping	1.06700	4.367	0.4	Pass

Test Plots

1M



2M



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

Test Data

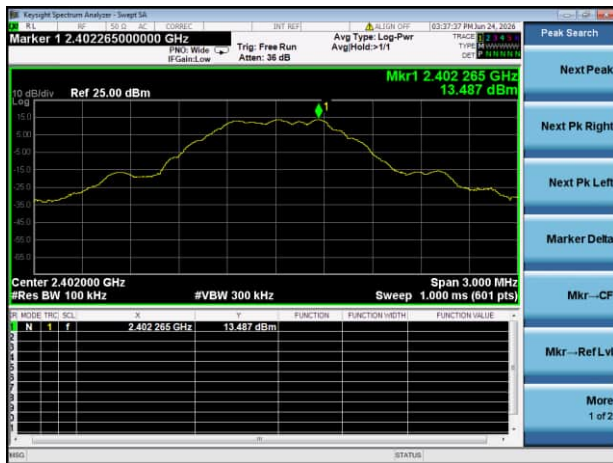
1M				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-29.25	13.49	-6.51	Pass
Middle	-28.55	13.29	-6.71	Pass
High	-28.20	13.21	-6.79	Pass

2M				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-29.37	13.06	-6.94	Pass
Middle	-27.68	12.90	-7.10	Pass
High	-28.28	12.82	-7.18	Pass

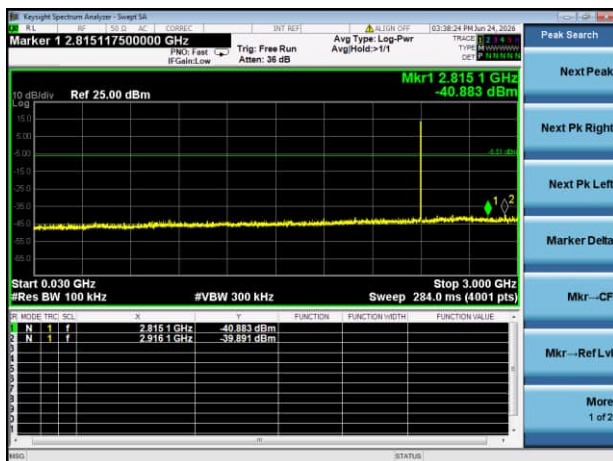
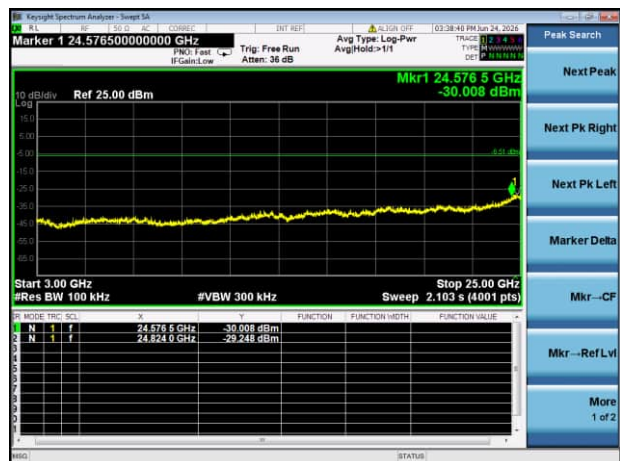
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1M	-28.72	13.61	-6.39	Pass
2M	-28.76	12.96	-7.04	Pass

Test Plots

1M LOW CHANNEL, CARRIER LEVEL



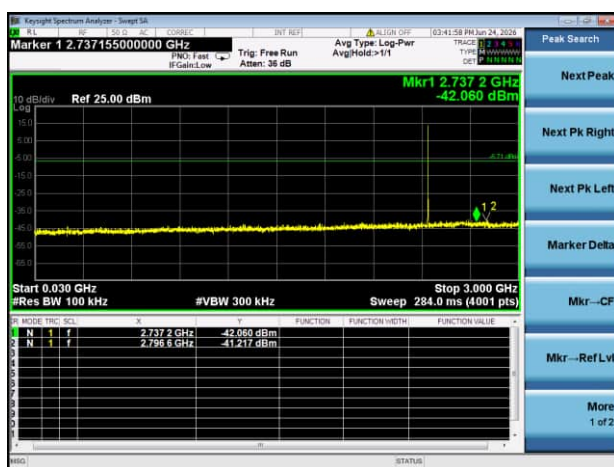
1M LOW CHANNEL, BAND EDGE

1M LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz1M LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

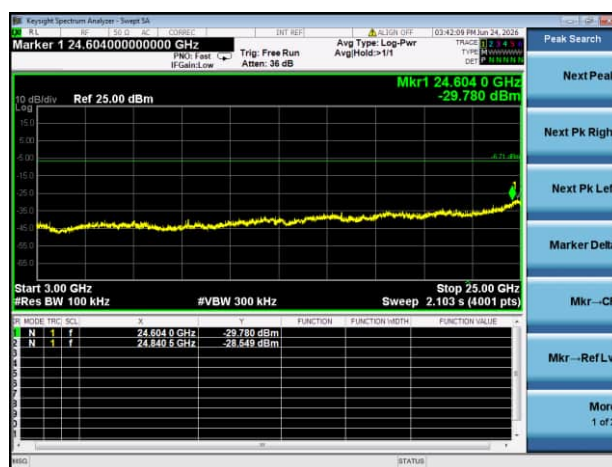
1M MIDDLE CHANNEL, CARRIER LEVEL



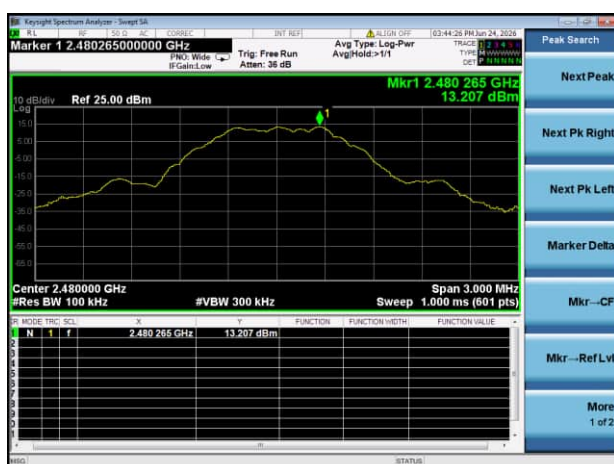
1M MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



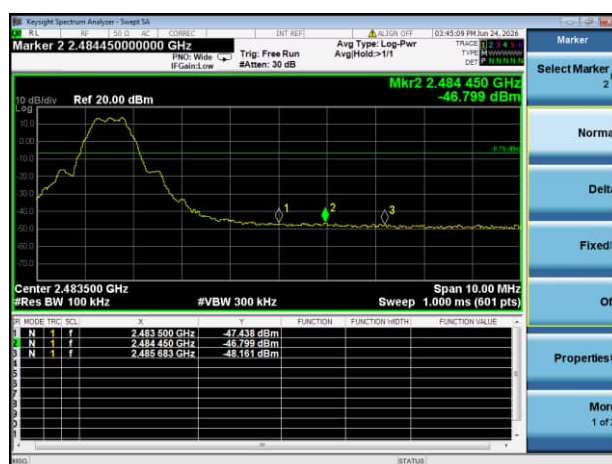
1M MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



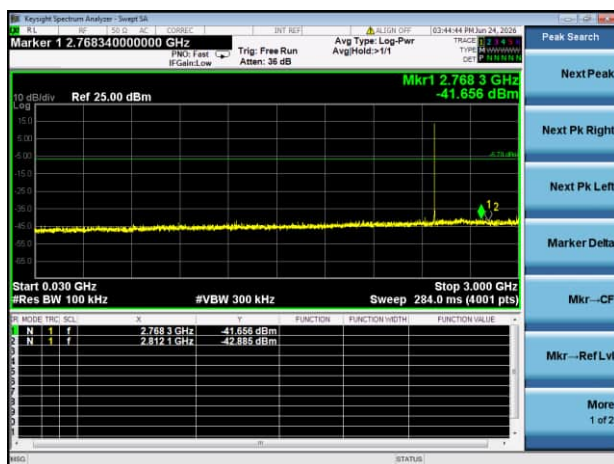
1M HIGH CHANNEL, CARRIER LEVEL



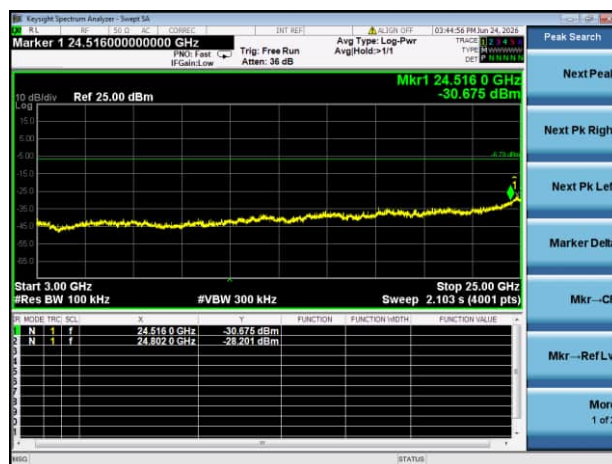
1M HIGH CHANNEL, BAND EDGE



1M HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



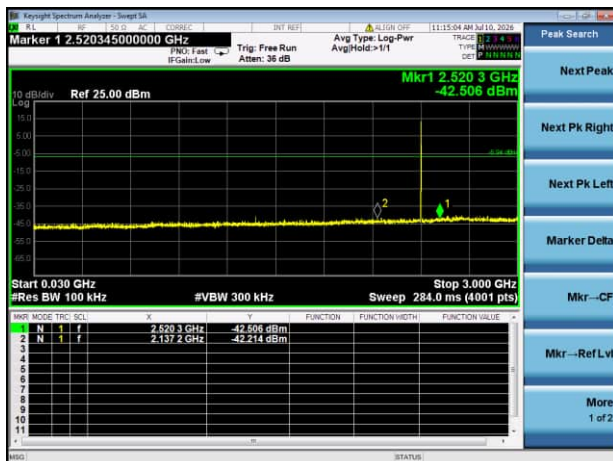
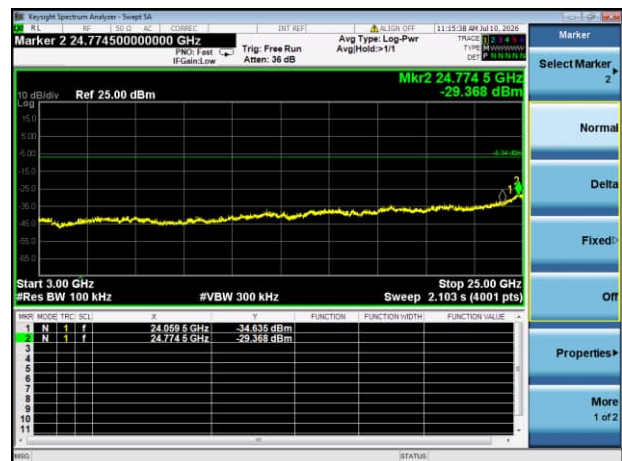
1M HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



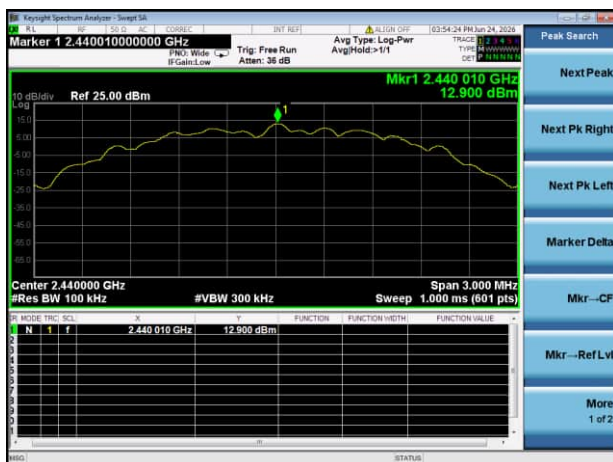
2M LOW CHANNEL, CARRIER LEVEL



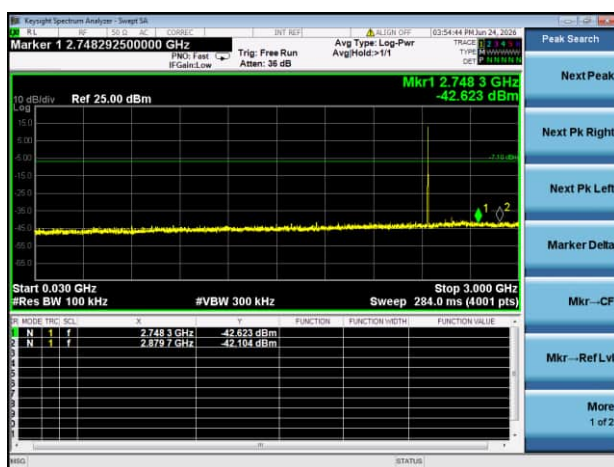
2M LOW CHANNEL, BAND EDGE

2M LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz2M LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

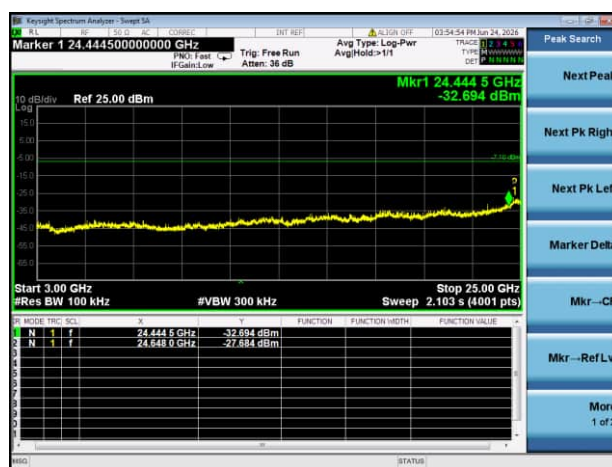
2M MIDDLE CHANNEL, CARRIER LEVEL



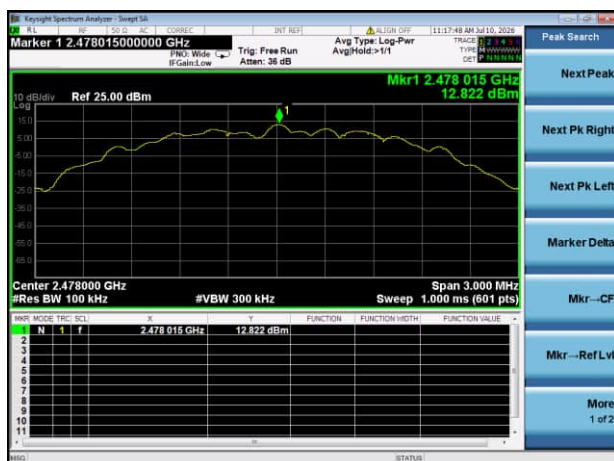
2M MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



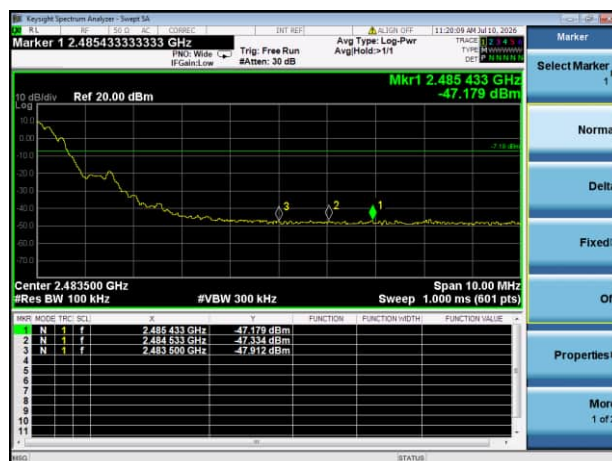
2M MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



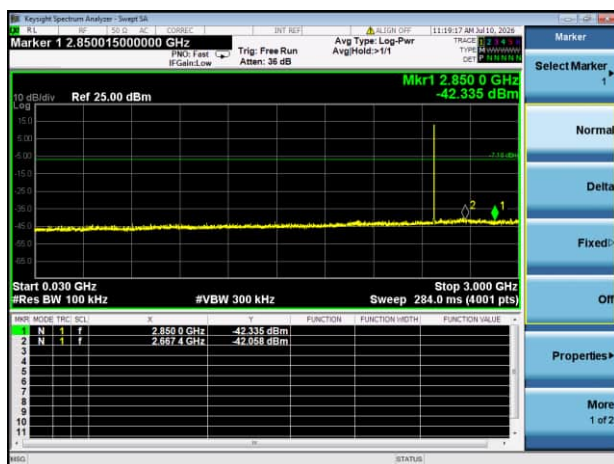
2M HIGH CHANNEL, CARRIER LEVEL



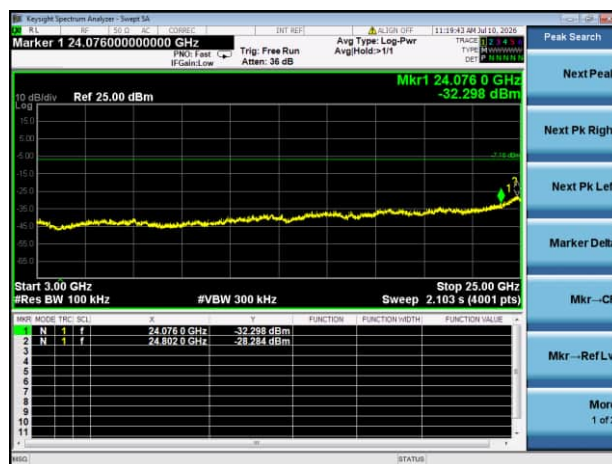
2M HIGH CHANNEL, BAND EDGE



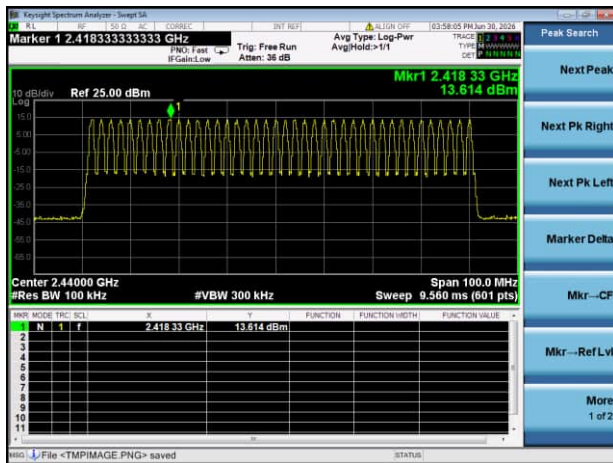
2M HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



2M HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



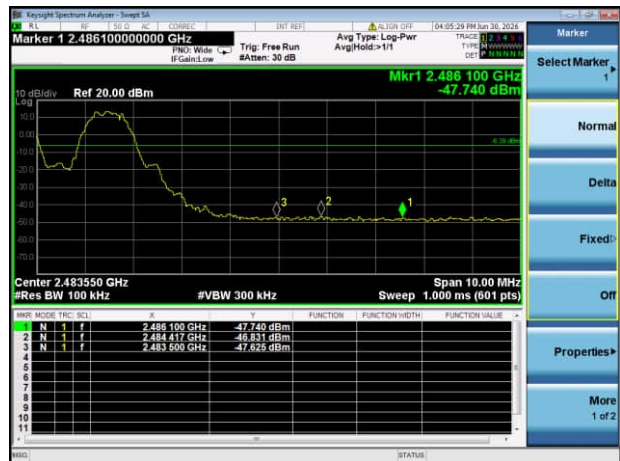
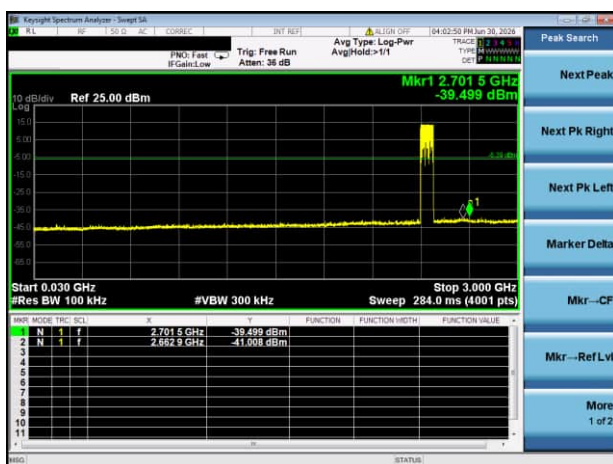
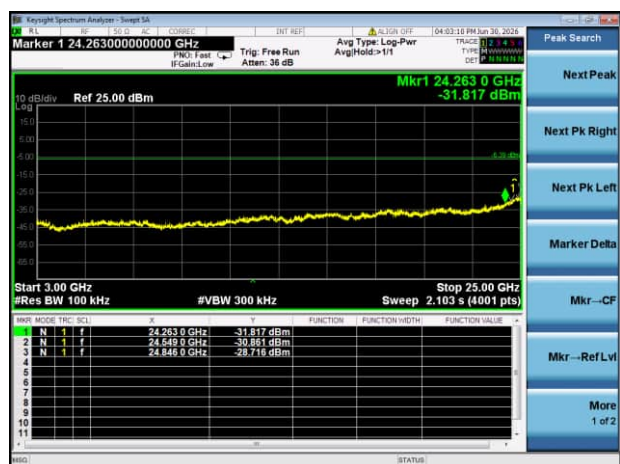
1M HOPPING, CARRIER LEVEL



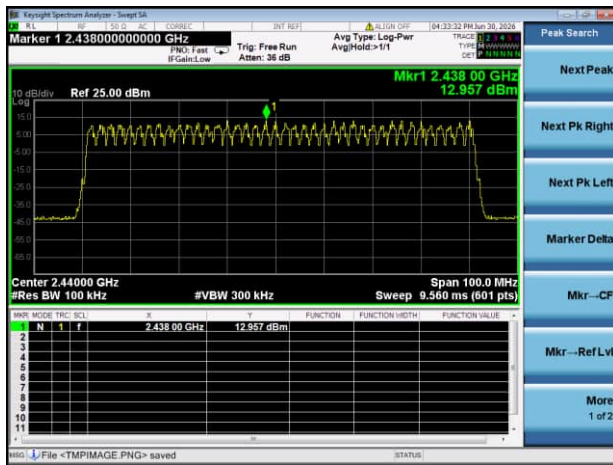
1M HOPPING BAND EDGE (LOW)



1M HOPPING BAND EDGE (HIGH)

1M Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz1M Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

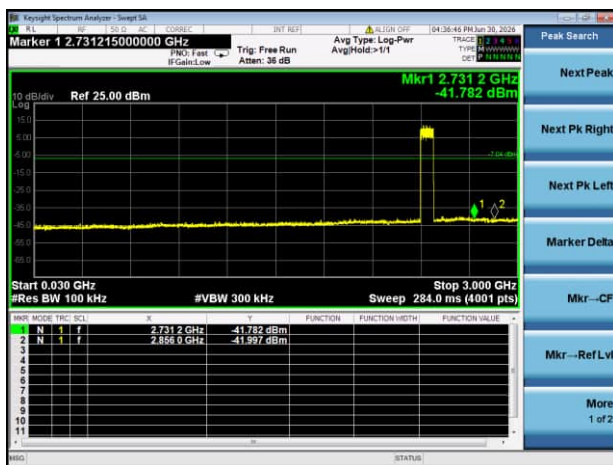
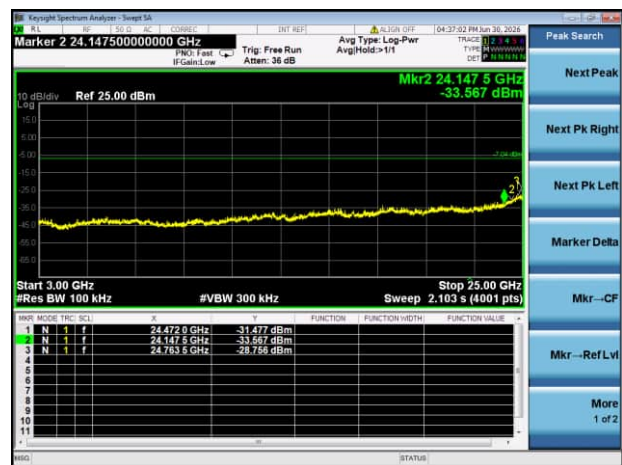
2M HOPPING, CARRIER LEVEL



2M HOPPING BAND EDGE (LOW)



2M HOPPING BAND EDGE (HIGH)

2M Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz2M Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

A.7 Conducted Emissions

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

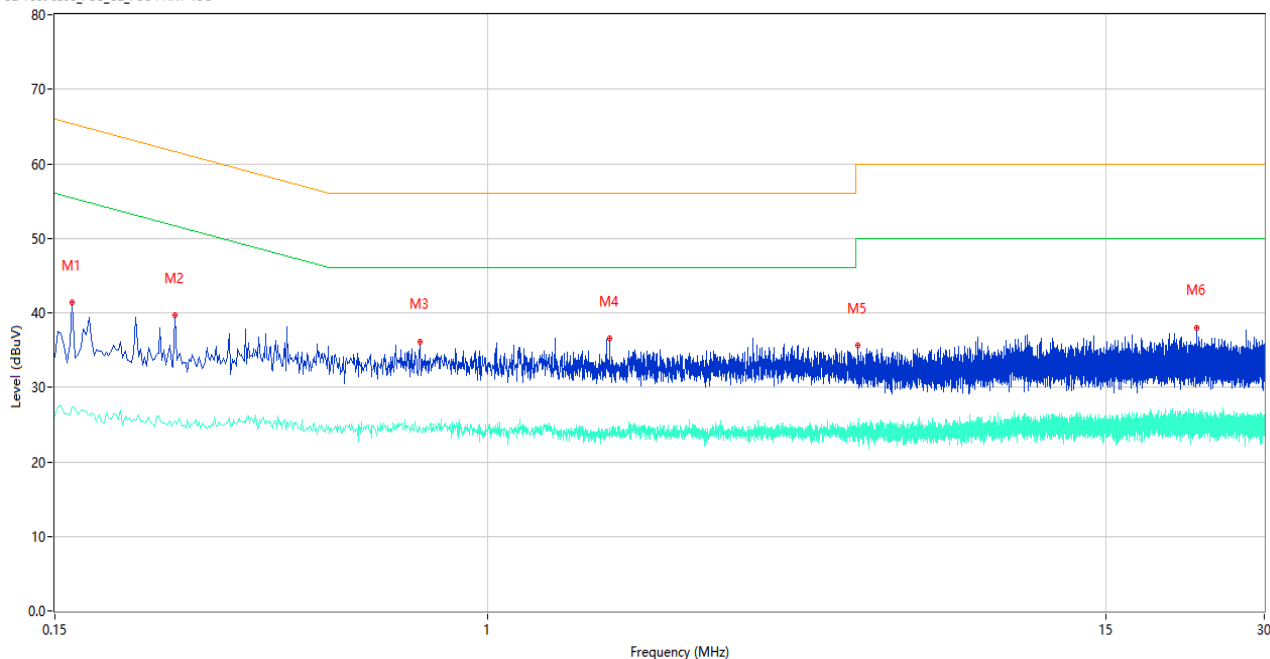
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE N

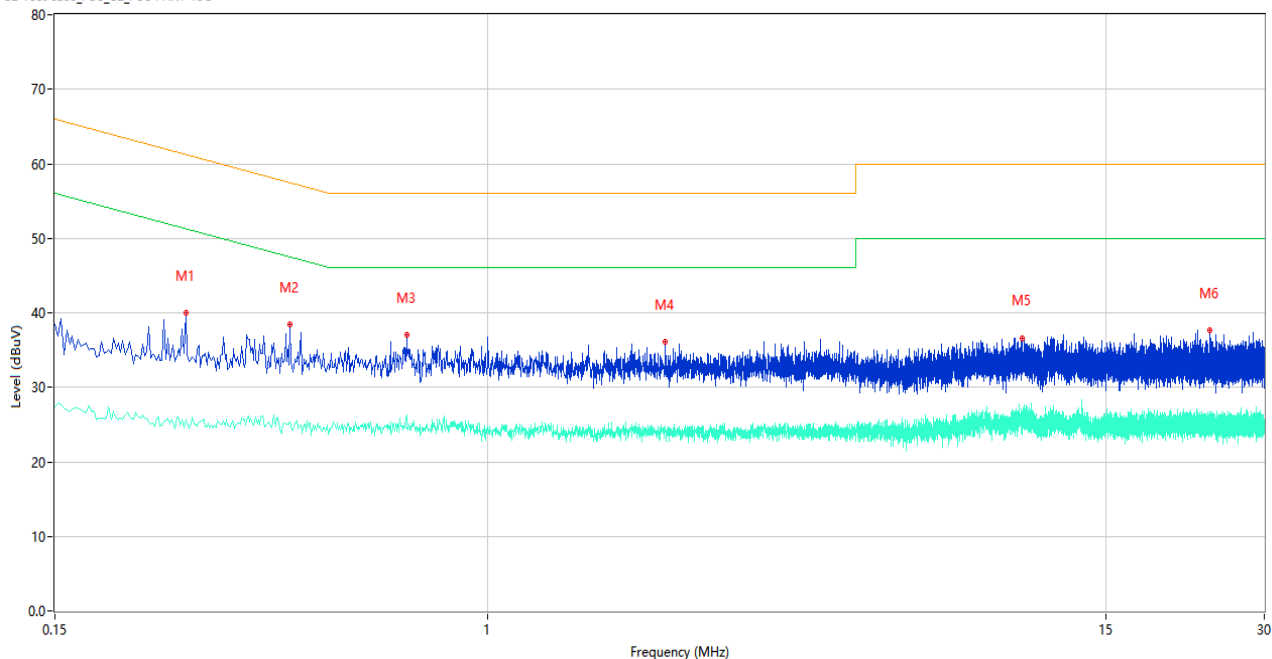
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	41.46	9.85	65.36	23.90	Peak	N	Pass
1**	0.162	27.34	9.85	55.36	28.02	AV	N	Pass
2	0.254	39.69	9.82	61.63	21.94	Peak	N	Pass
2**	0.254	25.52	9.82	51.63	26.11	AV	N	Pass
3	0.744	36.17	10.28	56.00	19.83	Peak	N	Pass
3**	0.744	24.65	10.28	46.00	21.35	AV	N	Pass
4	1.704	36.61	10.24	56.00	19.39	Peak	N	Pass
4**	1.704	24.53	10.24	46.00	21.47	AV	N	Pass
5	5.058	35.60	10.38	60.00	24.40	Peak	N	Pass
5**	5.058	24.38	10.38	50.00	25.62	AV	N	Pass
6	22.316	38.00	11.43	60.00	22.00	Peak	N	Pass
6**	22.316	25.48	11.43	50.00	24.52	AV	N	Pass

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	0.266	40.05	9.82	61.24	21.19	Peak	L	Pass
1**	0.266	25.72	9.82	51.24	25.52	AV	L	Pass
2	0.420	38.41	10.40	57.45	19.04	Peak	L	Pass
2**	0.420	25.41	10.40	47.45	22.04	AV	L	Pass
3	0.700	37.10	10.70	56.00	18.90	Peak	L	Pass
3**	0.700	26.26	10.70	46.00	19.74	AV	L	Pass
4	2.178	36.06	10.13	56.00	19.94	Peak	L	Pass
4**	2.178	24.24	10.13	46.00	21.76	AV	L	Pass
5	10.394	36.64	10.47	60.00	23.36	Peak	L	Pass
5**	10.394	25.37	10.47	50.00	24.63	AV	L	Pass
6	23.630	37.64	11.08	60.00	22.36	Peak	L	Pass
6**	23.630	26.74	11.08	50.00	23.26	AV	L	Pass

A.8 Radiated 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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, 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 1M-Hopping mode is the worst.

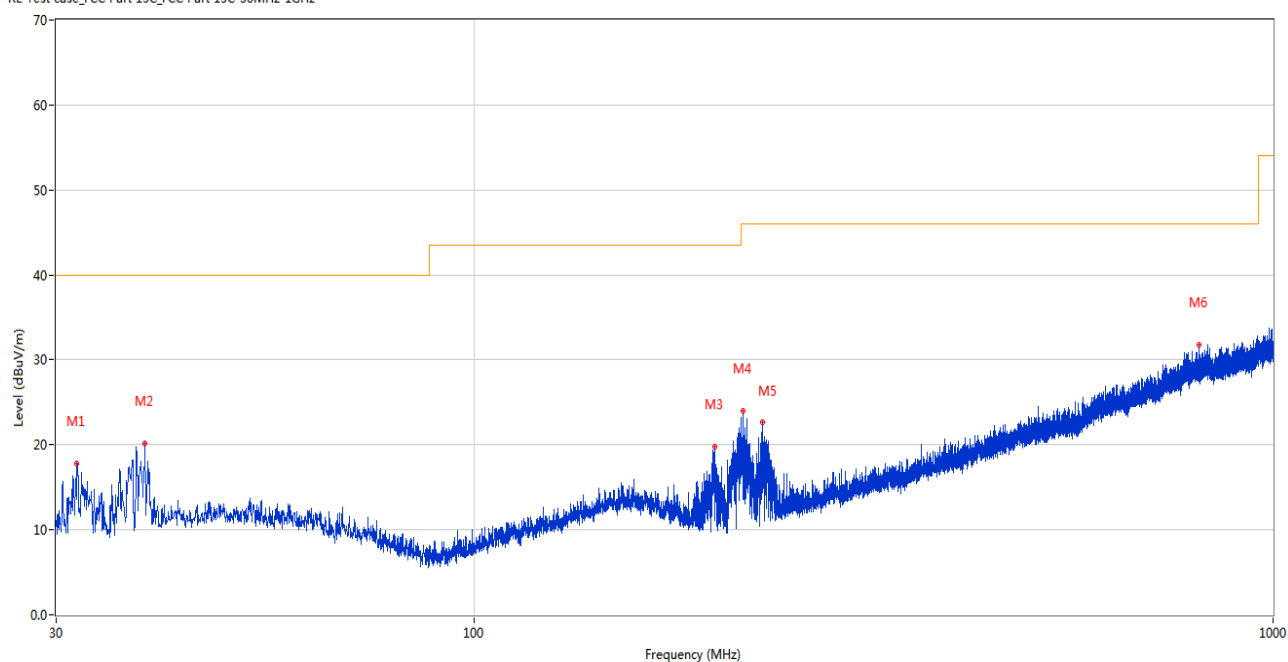
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

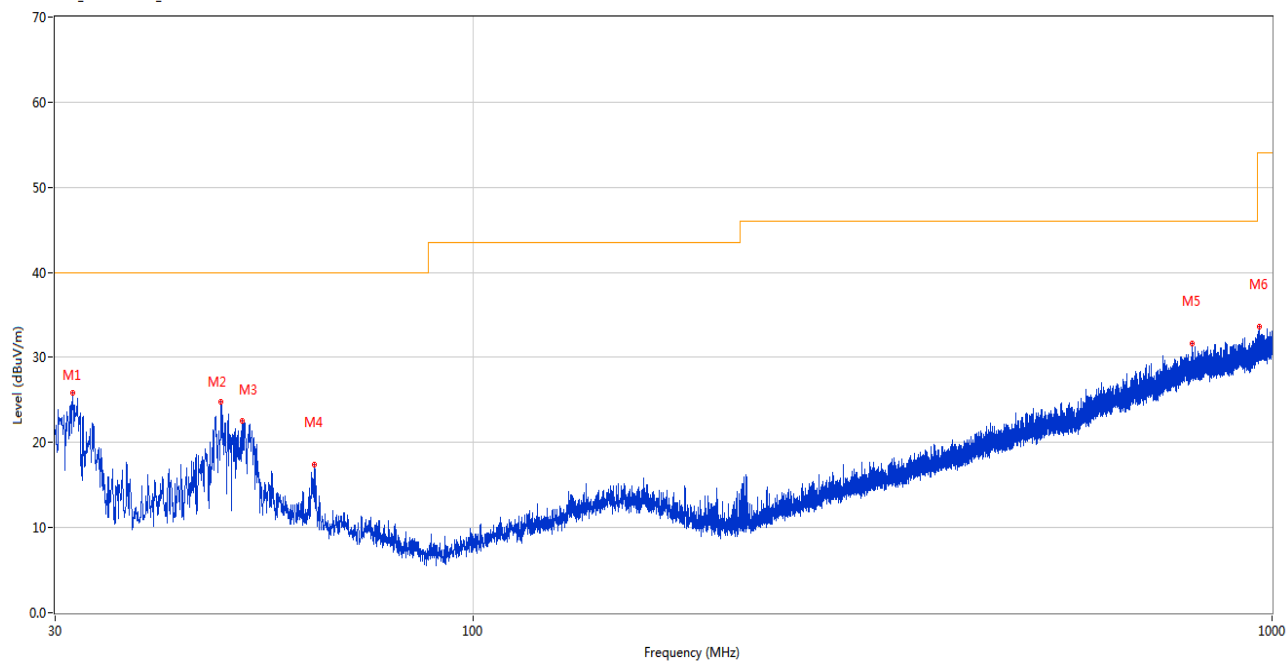
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.843	17.81	-26.76	40.0	22.19	Peak	339.00	100	Horizontal	Pass
2	38.779	20.13	-25.66	40.0	19.87	Peak	58.00	100	Horizontal	Pass
3	200.235	19.83	-26.92	43.5	23.67	Peak	40.00	100	Horizontal	Pass
4	217.258	23.95	-26.70	46.0	22.05	Peak	187.00	100	Horizontal	Pass
5	229.868	22.61	-25.92	46.0	23.39	Peak	194.00	100	Horizontal	Pass
6	808.182	31.81	-9.02	46.0	14.19	Peak	242.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



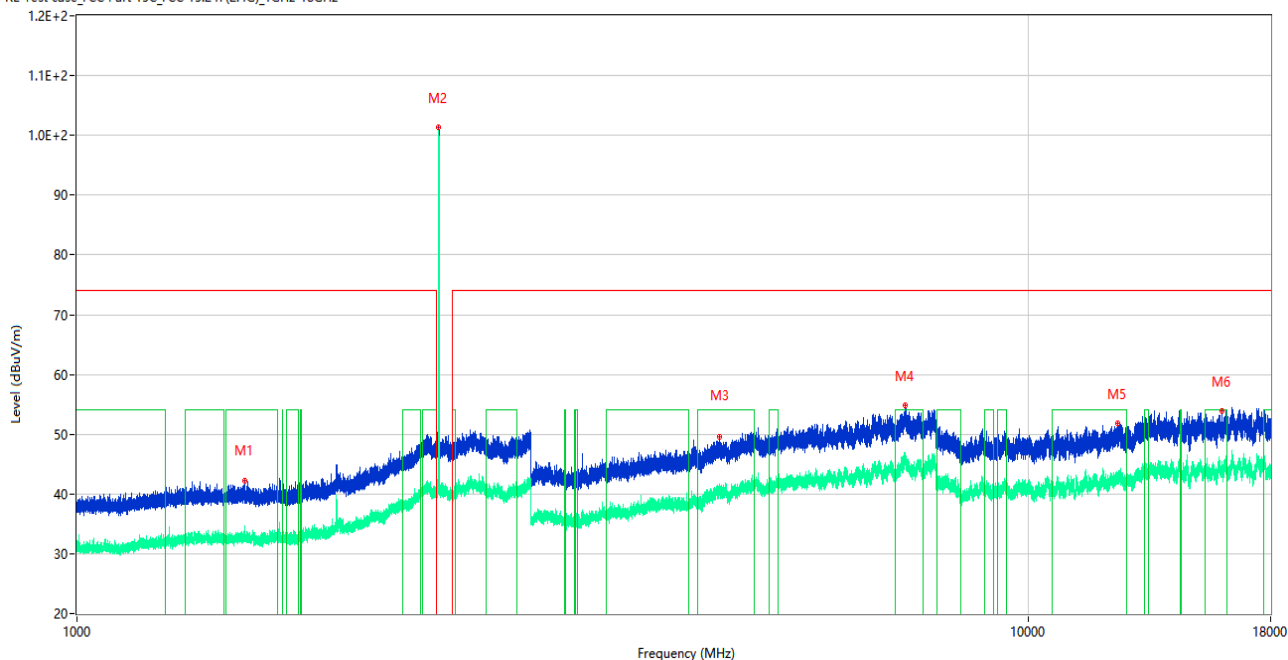
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.552	25.87	-26.78	40.0	14.13	Peak	0.00	100	Vertical	Pass
2	48.333	24.77	-24.79	40.0	15.23	Peak	94.00	100	Vertical	Pass
3	51.389	22.53	-24.84	40.0	17.47	Peak	0.00	100	Vertical	Pass
4	63.368	17.45	-26.06	40.0	22.55	Peak	0.00	100	Vertical	Pass
5	793.536	31.63	-9.13	46.0	14.37	Peak	1.00	200	Vertical	Pass
6	964.255	33.68	-6.90	54.0	20.32	Peak	0.00	200	Vertical	Pass

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

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

1M LOW CHANNEL 1 GHz to 18 GHz, ANT H

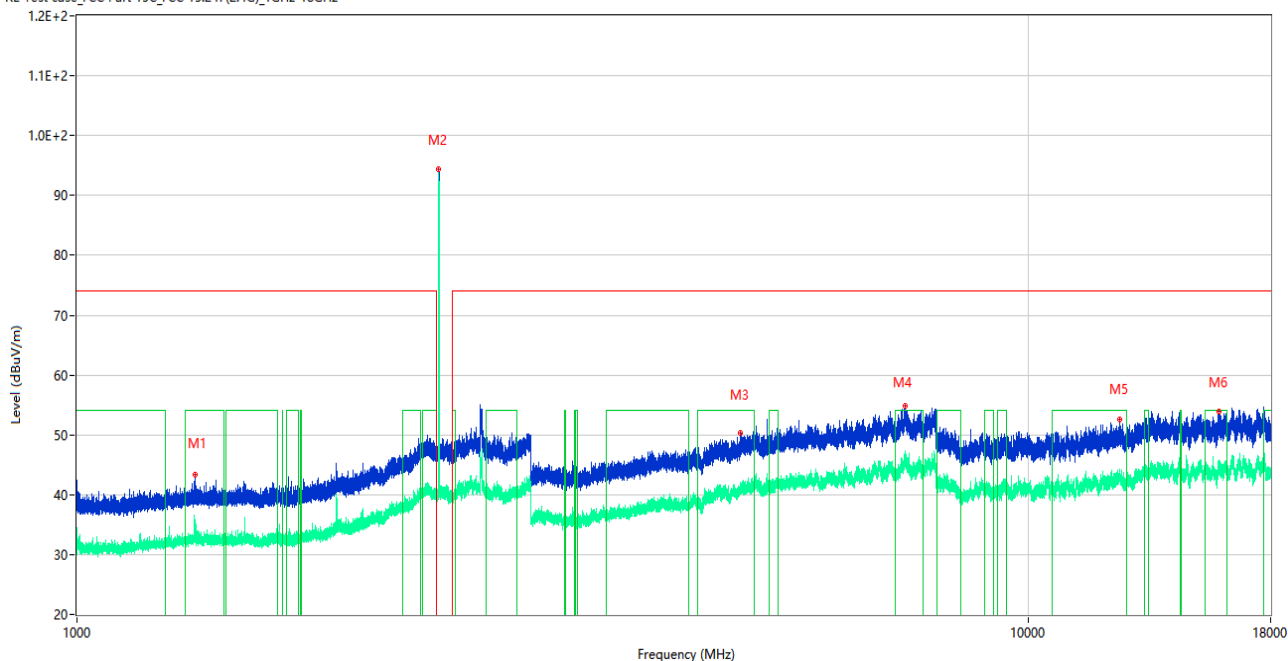
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.000	42.30	74.0	31.70	Peak	0.00	100	Horizontal	Pass
1**	1500.000	34.03	54.0	19.97	AV	0.00	100	Horizontal	Pass
2	2401.700	101.32	--	--	Peak	242.00	200	Horizontal	N/A
2**	2401.700	99.52	--	--	AV	242.00	200	Horizontal	N/A
3	4743.000	49.55	74.0	24.45	Peak	134.00	100	Horizontal	Pass
3**	4743.000	40.17	54.0	13.83	AV	134.00	100	Horizontal	Pass
4	7428.750	54.81	74.0	19.19	Peak	49.00	200	Horizontal	Pass
4**	7428.750	45.79	54.0	8.21	AV	49.00	200	Horizontal	Pass
5	12431.037	51.79	74.0	22.21	Peak	74.00	100	Horizontal	Pass
5**	12431.037	42.14	54.0	11.86	AV	74.00	100	Horizontal	Pass
6	16000.012	53.89	74.0	20.11	Peak	349.00	200	Horizontal	Pass
6**	16000.012	43.62	54.0	10.38	AV	349.00	200	Horizontal	Pass

1M LOW CHANNEL 1 GHz to 18 GHz, ANT V

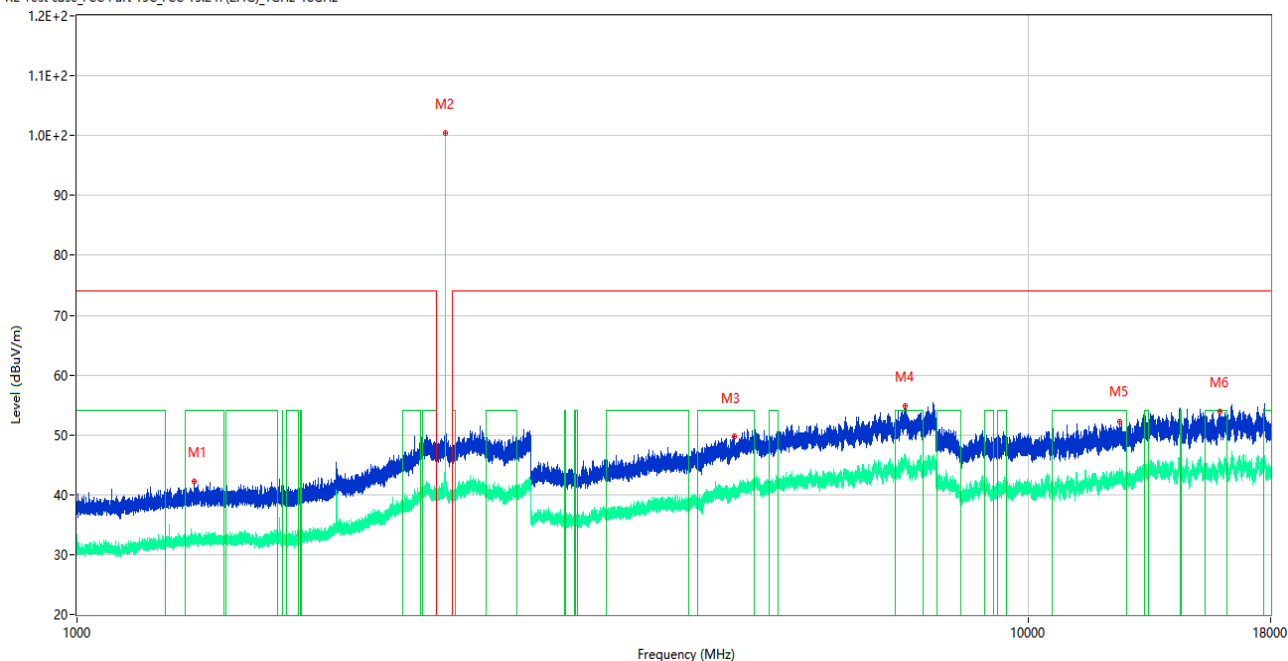
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	43.43	74.0	30.57	Peak	163.00	100	Vertical	Pass
1**	1331.400	33.50	54.0	20.50	AV	163.00	100	Vertical	Pass
2	2401.800	94.35	--	--	Peak	132.00	200	Vertical	N/A
2**	2401.800	93.14	--	--	AV	132.00	200	Vertical	N/A
3	4986.750	50.24	74.0	23.76	Peak	188.00	200	Vertical	Pass
3**	4986.750	41.21	54.0	12.79	AV	188.00	200	Vertical	Pass
4	7427.750	54.87	74.0	19.13	Peak	0.00	300	Vertical	Pass
4**	7427.750	46.12	54.0	7.88	AV	0.00	300	Vertical	Pass
5	12498.250	52.60	74.0	21.40	Peak	11.00	200	Vertical	Pass
5**	12498.250	43.02	54.0	10.98	AV	11.00	200	Vertical	Pass
6	15881.362	53.86	74.0	20.14	Peak	61.00	100	Vertical	Pass
6**	15881.362	44.45	54.0	9.55	AV	61.00	100	Vertical	Pass

1M MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

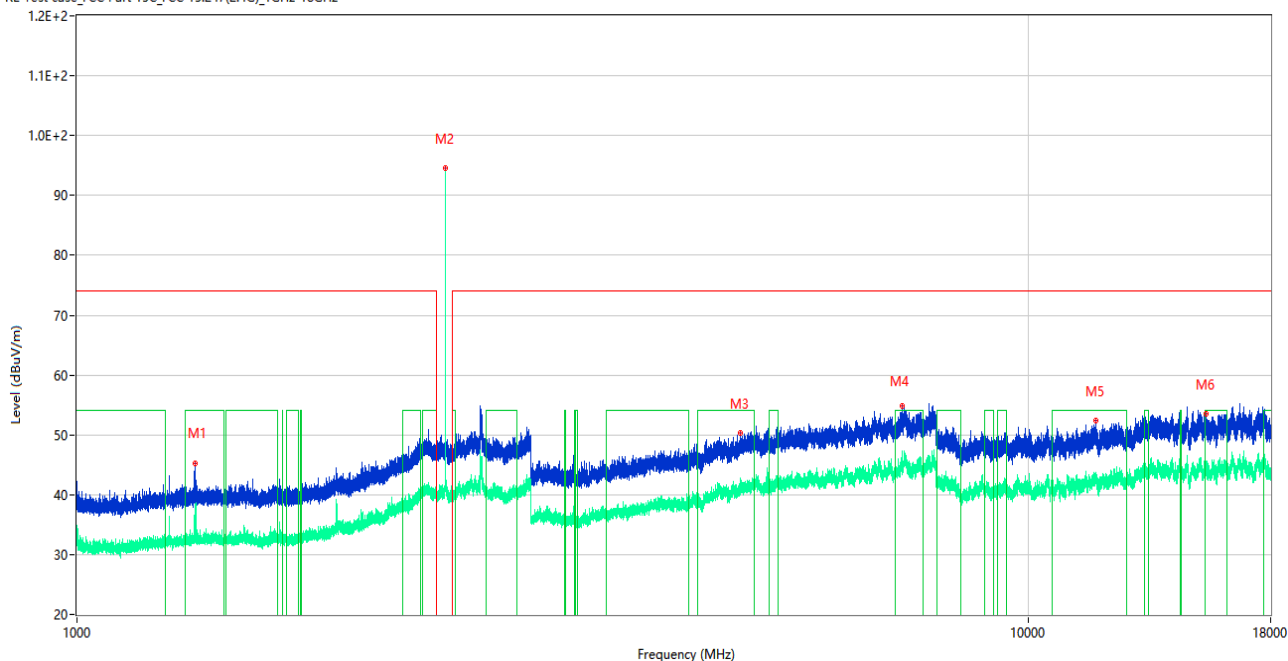
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	42.17	74.0	31.83	Peak	38.00	300	Horizontal	Pass
1**	1329.100	32.28	54.0	21.72	AV	38.00	300	Horizontal	Pass
2	2440.300	100.34	--	--	Peak	250.00	200	Horizontal	N/A
2**	2440.300	99.55	--	--	AV	250.00	200	Horizontal	N/A
3	4910.250	49.74	74.0	24.26	Peak	237.00	100	Horizontal	Pass
3**	4910.250	40.29	54.0	13.71	AV	237.00	100	Horizontal	Pass
4	7422.500	54.77	74.0	19.23	Peak	274.00	300	Horizontal	Pass
4**	7422.500	46.00	54.0	8.00	AV	274.00	300	Horizontal	Pass
5	12488.988	52.27	74.0	21.73	Peak	42.00	100	Horizontal	Pass
5**	12488.988	42.46	54.0	11.54	AV	42.00	100	Horizontal	Pass
6	15919.425	53.87	74.0	20.13	Peak	126.00	300	Horizontal	Pass
6**	15919.425	45.02	54.0	8.98	AV	126.00	300	Horizontal	Pass

1M MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

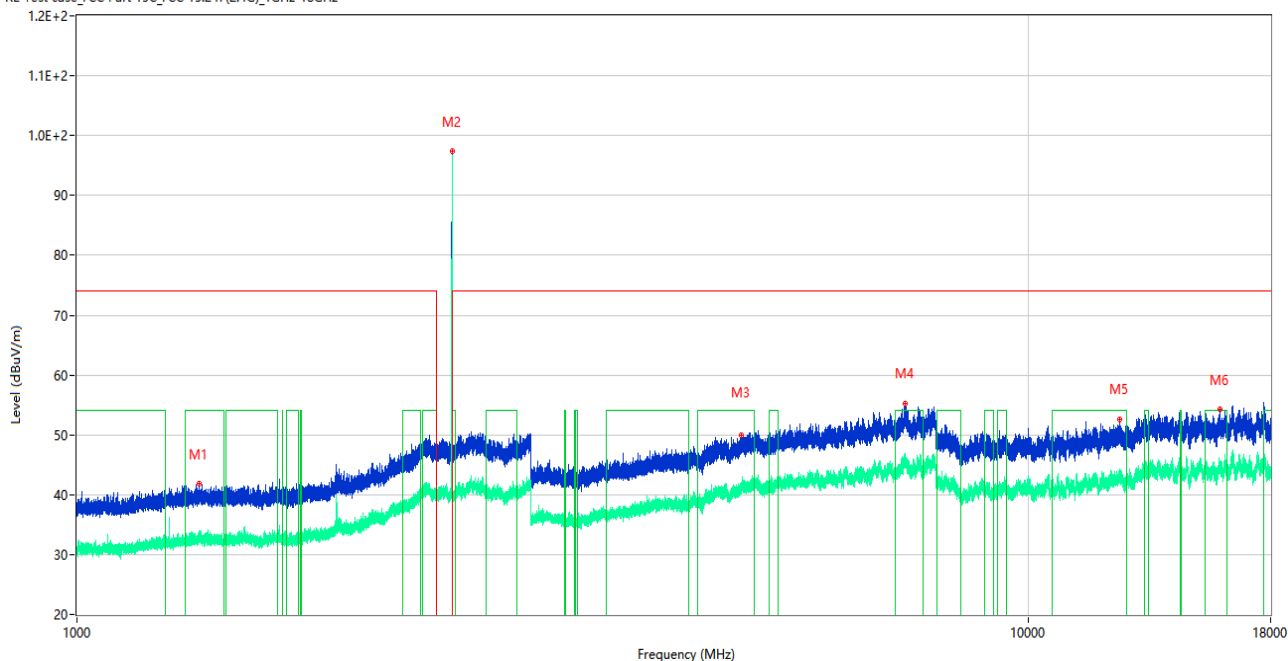
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.800	45.18	74.0	28.82	Peak	154.00	400	Vertical	Pass
1**	1329.800	35.19	54.0	18.81	AV	154.00	400	Vertical	Pass
2	2440.300	94.50	--	--	Peak	98.00	200	Vertical	N/A
2**	2440.300	93.86	--	--	AV	98.00	200	Vertical	N/A
3	4988.750	50.30	74.0	23.70	Peak	50.00	200	Vertical	Pass
3**	4988.750	42.82	54.0	11.18	AV	50.00	200	Vertical	Pass
4	7368.000	54.91	74.0	19.09	Peak	283.00	100	Vertical	Pass
4**	7368.000	45.27	54.0	8.73	AV	283.00	100	Vertical	Pass
5	11798.100	52.32	74.0	21.68	Peak	63.00	100	Vertical	Pass
5**	11798.100	42.06	54.0	11.94	AV	63.00	100	Vertical	Pass
6	15405.712	53.45	74.0	20.55	Peak	198.00	200	Vertical	Pass
6**	15405.712	43.42	54.0	10.58	AV	198.00	200	Vertical	Pass

1M HIGH CHANNEL 1 GHz to 18 GHz, ANT H

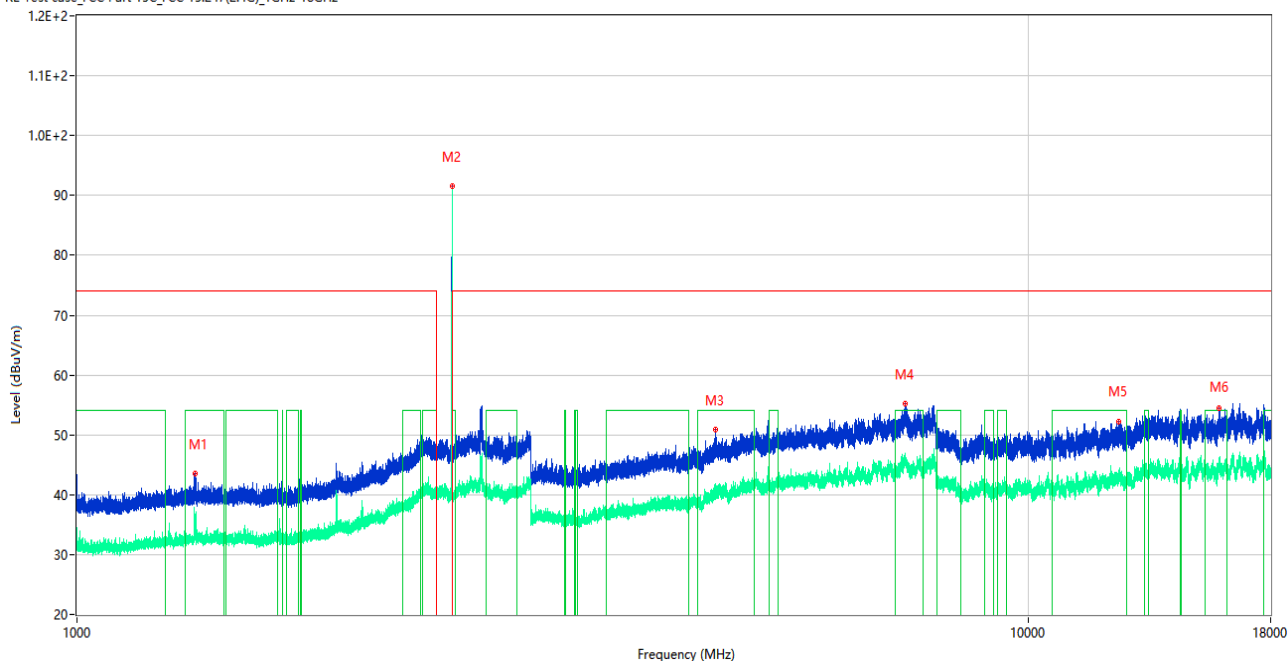
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1342.900	41.77	74.0	32.23	Peak	30.00	300	Horizontal	Pass
1**	1342.900	32.53	54.0	21.47	AV	30.00	300	Horizontal	Pass
2	2480.100	97.31	--	--	Peak	256.00	100	Horizontal	N/A
2**	2480.100	96.65	--	--	AV	256.00	100	Horizontal	N/A
3	4997.500	49.92	74.0	24.08	Peak	164.00	100	Horizontal	Pass
3**	4997.500	41.23	54.0	12.77	AV	164.00	100	Horizontal	Pass
4	7431.500	55.24	74.0	18.76	Peak	164.00	100	Horizontal	Pass
4**	7431.500	46.05	54.0	7.95	AV	164.00	100	Horizontal	Pass
5	12493.263	52.63	74.0	21.37	Peak	61.00	150	Horizontal	Pass
5**	12493.263	42.94	54.0	11.06	AV	61.00	150	Horizontal	Pass
6	15912.863	54.23	74.0	19.77	Peak	0.00	200	Horizontal	Pass
6**	15912.863	44.64	54.0	9.36	AV	0.00	200	Horizontal	Pass

1M HIGH CHANNEL 1 GHz to 18 GHz, ANT V

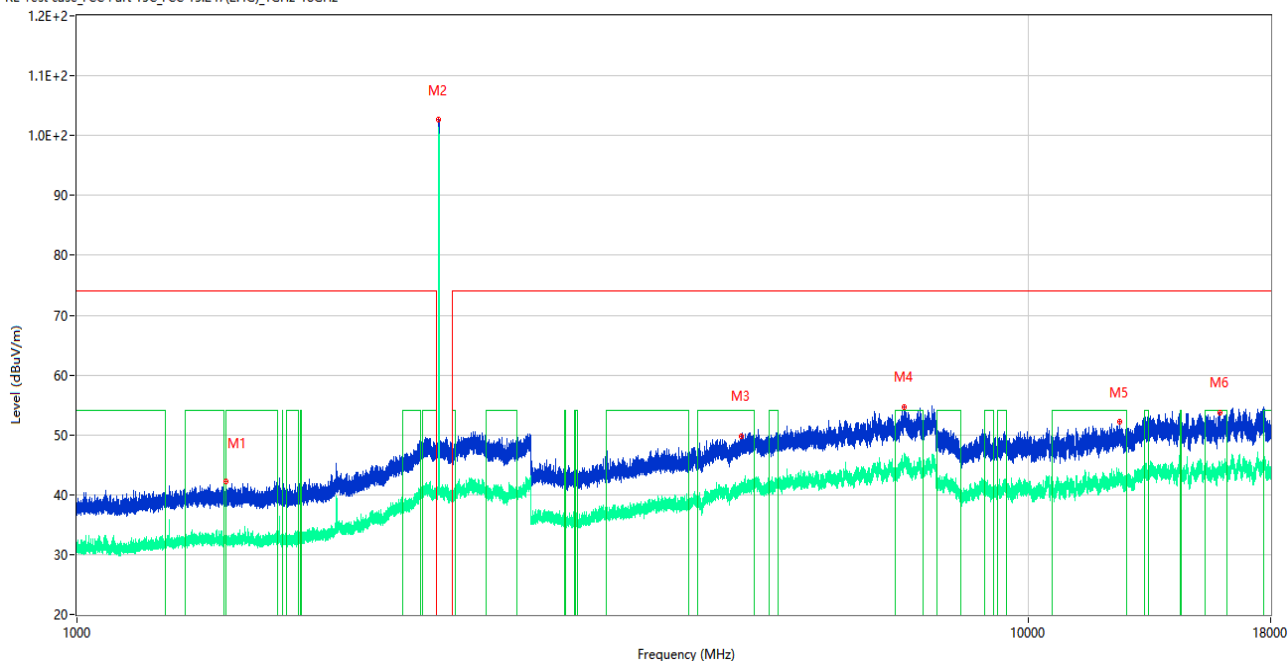
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.200	43.46	74.0	30.54	Peak	150.00	400	Vertical	Pass
1**	1332.200	34.51	54.0	19.49	AV	150.00	400	Vertical	Pass
2	2480.100	91.50	--	--	Peak	105.00	100	Vertical	N/A
2**	2480.100	90.94	--	--	AV	105.00	100	Vertical	N/A
3	4695.000	50.81	74.0	23.19	Peak	279.00	100	Vertical	Pass
3**	4695.000	40.45	54.0	13.55	AV	279.00	100	Vertical	Pass
4	7426.000	55.16	74.0	18.84	Peak	360.00	300	Vertical	Pass
4**	7426.000	46.41	54.0	7.59	AV	360.00	300	Vertical	Pass
5	12468.799	52.22	74.0	21.78	Peak	244.00	150	Vertical	Pass
5**	12468.799	42.88	54.0	11.12	AV	244.00	150	Vertical	Pass
6	15891.599	54.55	74.0	19.45	Peak	301.00	300	Vertical	Pass
6**	15891.599	45.15	54.0	8.85	AV	301.00	300	Vertical	Pass

2M LOW CHANNEL 1 GHz to 18 GHz, ANT H

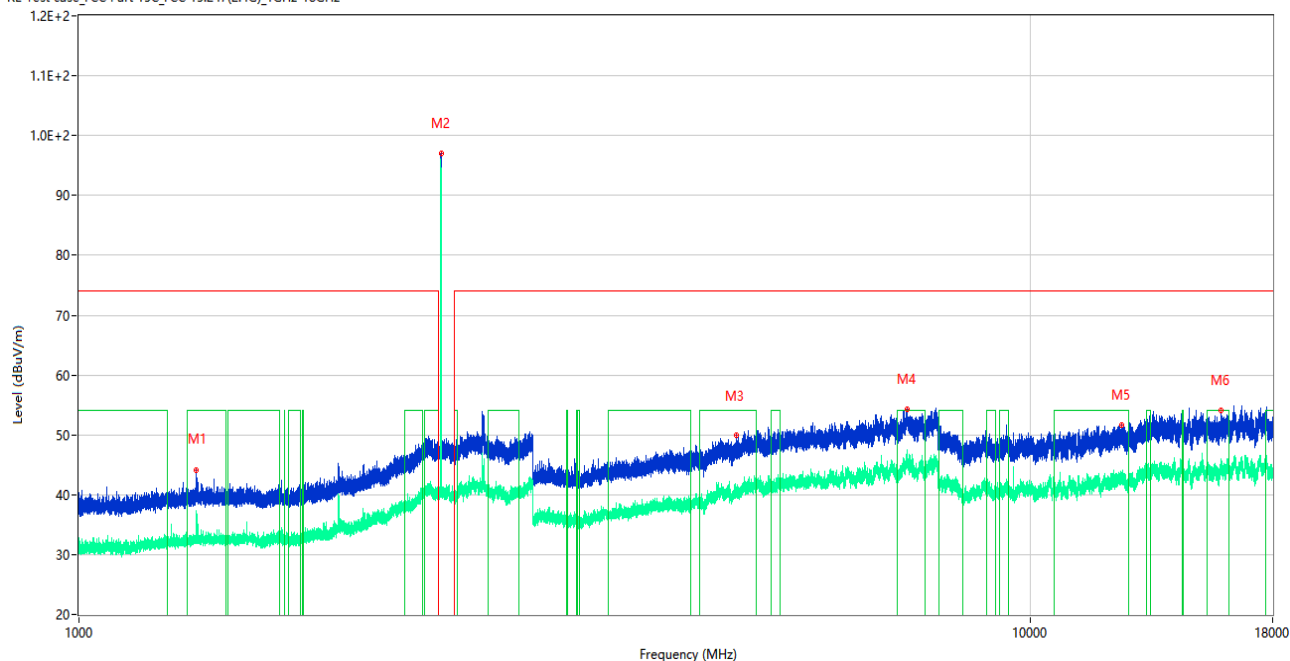
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.000	42.22	74.0	31.78	Peak	250.00	300	Horizontal	Pass
1**	1435.000	32.81	54.0	21.19	AV	250.00	300	Horizontal	Pass
2	2401.500	102.63	--	--	Peak	257.00	200	Horizontal	N/A
2**	2401.500	100.33	--	--	AV	257.00	200	Horizontal	N/A
3	4992.000	49.69	74.0	24.31	Peak	206.00	150	Horizontal	Pass
3**	4992.000	41.02	54.0	12.98	AV	206.00	150	Horizontal	Pass
4	7410.000	54.65	74.0	19.35	Peak	165.00	100	Horizontal	Pass
4**	7410.000	45.85	54.0	8.15	AV	165.00	100	Horizontal	Pass
5	12500.150	52.12	74.0	21.88	Peak	242.00	100	Horizontal	Pass
5**	12500.150	42.80	54.0	11.20	AV	242.00	100	Horizontal	Pass
6	15909.450	53.80	74.0	20.20	Peak	280.00	100	Horizontal	Pass
6**	15909.450	44.52	54.0	9.48	AV	280.00	100	Horizontal	Pass

2M LOW CHANNEL 1 GHz to 18 GHz, ANT V

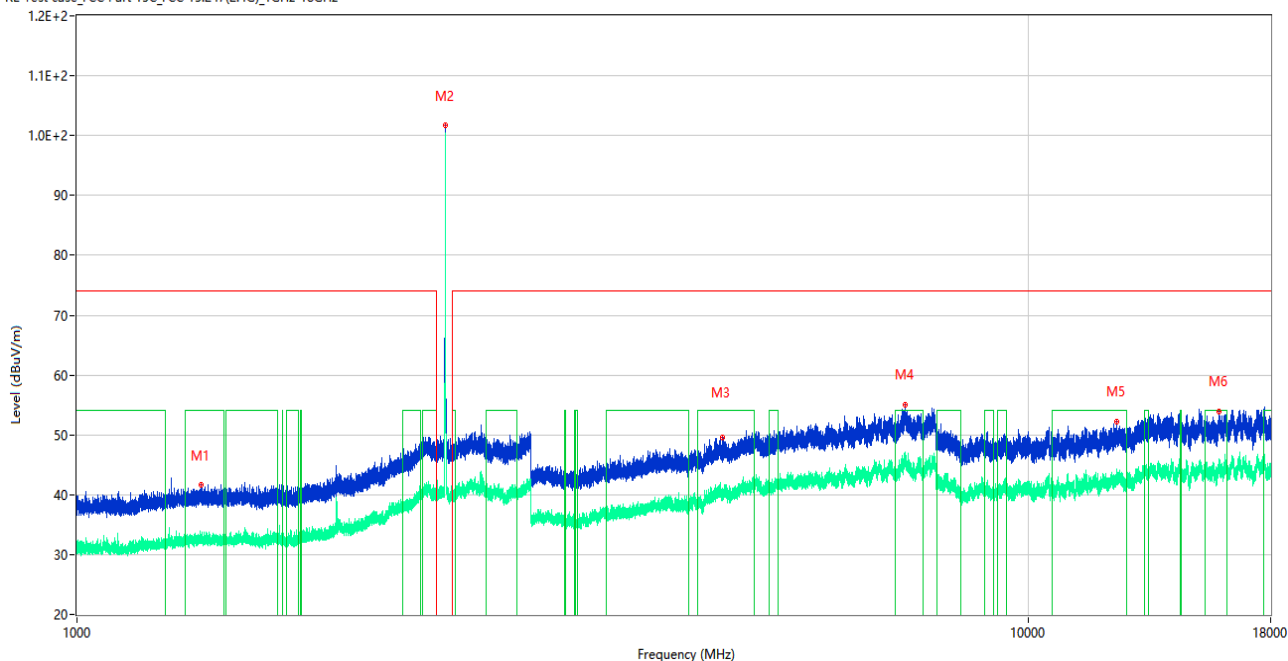
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	44.13	74.0	29.87	Peak	163.00	300	Vertical	Pass
1**	1329.100	36.25	54.0	17.75	AV	163.00	300	Vertical	Pass
2	2402.600	97.07	--	--	Peak	133.00	200	Vertical	N/A
2**	2402.600	94.44	--	--	AV	133.00	200	Vertical	N/A
3	4911.250	50.02	74.0	23.98	Peak	45.00	100	Vertical	Pass
3**	4911.250	41.08	54.0	12.92	AV	45.00	100	Vertical	Pass
4	7431.000	54.35	74.0	19.65	Peak	360.00	400	Vertical	Pass
4**	7431.000	46.22	54.0	7.78	AV	360.00	400	Vertical	Pass
5	12489.224	51.66	74.0	22.34	Peak	191.00	150	Vertical	Pass
5**	12489.224	42.94	54.0	11.06	AV	191.00	150	Vertical	Pass
6	15884.775	54.11	74.0	19.89	Peak	360.00	200	Vertical	Pass
6**	15884.775	44.40	54.0	9.60	AV	360.00	200	Vertical	Pass

2M MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

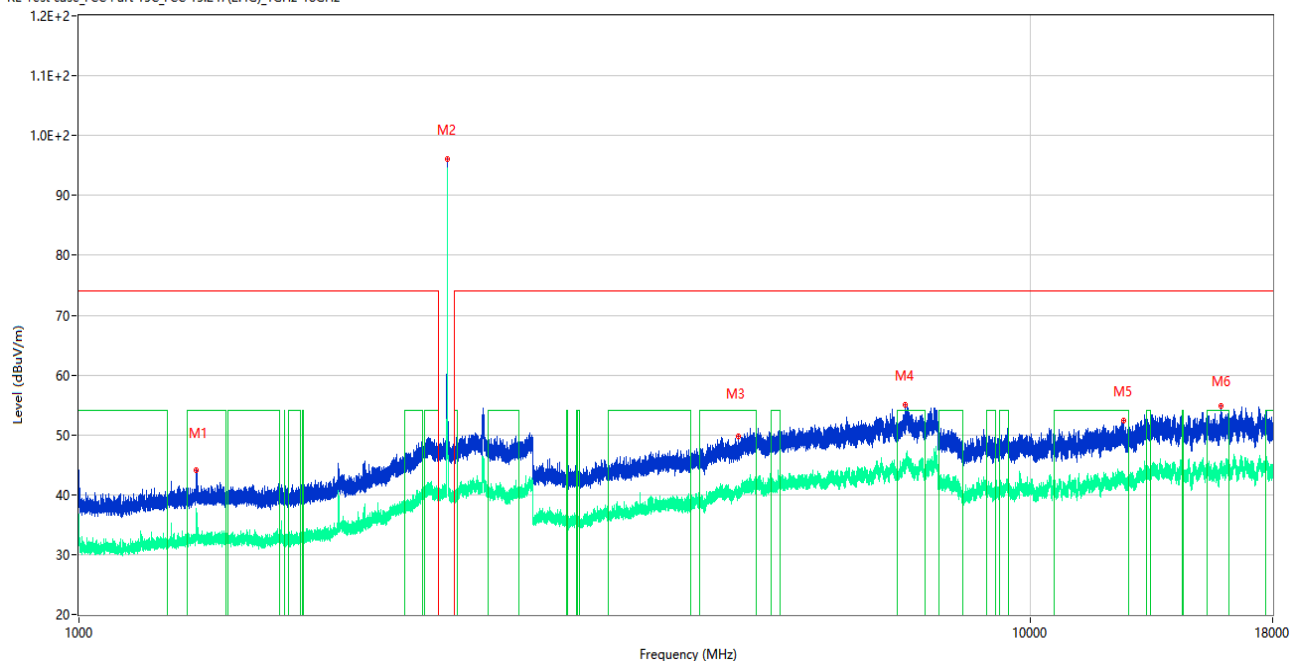
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1350.600	41.59	74.0	32.41	Peak	349.00	150	Horizontal	Pass
1**	1350.600	32.52	54.0	21.48	AV	349.00	150	Horizontal	Pass
2	2440.600	101.70	--	--	Peak	259.00	100	Horizontal	N/A
2**	2440.600	98.22	--	--	AV	259.00	100	Horizontal	N/A
3	4776.250	49.62	74.0	24.38	Peak	9.00	150	Horizontal	Pass
3**	4776.250	39.65	54.0	14.35	AV	9.00	150	Horizontal	Pass
4	7427.000	55.06	74.0	18.94	Peak	176.00	400	Horizontal	Pass
4**	7427.000	46.44	54.0	7.56	AV	176.00	400	Horizontal	Pass
5	12395.888	52.23	74.0	21.77	Peak	50.00	100	Horizontal	Pass
5**	12395.888	42.74	54.0	11.26	AV	50.00	100	Horizontal	Pass
6	15878.737	53.96	74.0	20.04	Peak	254.00	200	Horizontal	Pass
6**	15878.737	44.38	54.0	9.62	AV	254.00	200	Horizontal	Pass

2M MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

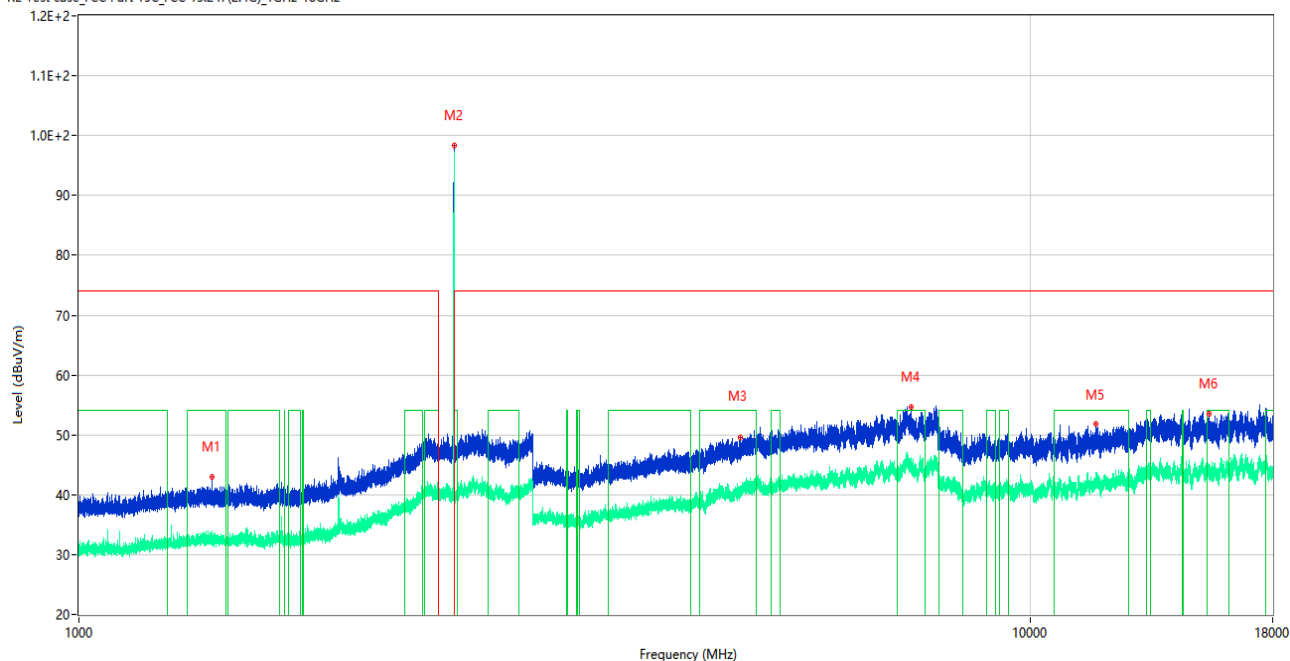
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.700	44.10	74.0	29.90	Peak	162.00	400	Vertical	Pass
1**	1327.700	33.44	54.0	20.56	AV	162.00	400	Vertical	Pass
2	2440.400	96.01	--	--	Peak	97.00	100	Vertical	N/A
2**	2440.400	93.68	--	--	AV	97.00	100	Vertical	N/A
3	4938.000	49.68	74.0	24.32	Peak	123.00	200	Vertical	Pass
3**	4938.000	40.34	54.0	13.66	AV	123.00	200	Vertical	Pass
4	7400.750	54.97	74.0	19.03	Peak	310.00	300	Vertical	Pass
4**	7400.750	45.55	54.0	8.45	AV	310.00	300	Vertical	Pass
5	12537.912	52.31	74.0	21.69	Peak	0.00	150	Vertical	Pass
5**	12537.912	42.84	54.0	11.16	AV	0.00	150	Vertical	Pass
6	15895.012	54.83	74.0	19.17	Peak	320.00	200	Vertical	Pass
6**	15895.012	44.61	54.0	9.39	AV	320.00	200	Vertical	Pass

2M HIGH CHANNEL 1 GHz to 18 GHz, ANT H

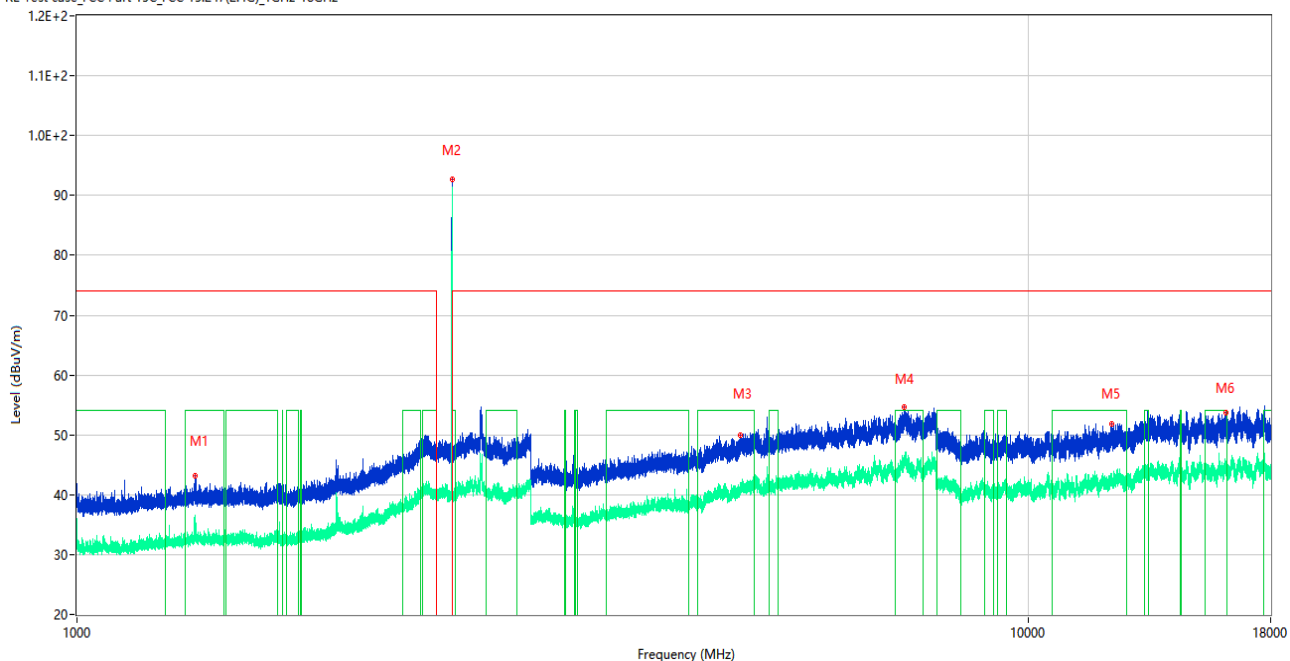
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1380.100	43.05	74.0	30.95	Peak	108.00	300	Horizontal	Pass
1**	1380.100	33.10	54.0	20.90	AV	108.00	300	Horizontal	Pass
2	2479.600	98.41	--	--	Peak	252.00	100	Horizontal	N/A
2**	2479.600	96.14	--	--	AV	252.00	100	Horizontal	N/A
3	4960.750	49.55	74.0	24.45	Peak	161.00	100	Horizontal	Pass
3**	4960.750	39.87	54.0	14.13	AV	161.00	100	Horizontal	Pass
4	7494.500	54.73	74.0	19.27	Peak	11.00	300	Horizontal	Pass
4**	7494.500	44.87	54.0	9.13	AV	11.00	300	Horizontal	Pass
5	11739.912	51.79	74.0	22.21	Peak	0.00	150	Horizontal	Pass
5**	11739.912	41.98	54.0	12.02	AV	0.00	150	Horizontal	Pass
6	15417.787	53.58	74.0	20.42	Peak	164.00	400	Horizontal	Pass
6**	15417.787	43.84	54.0	10.16	AV	164.00	400	Horizontal	Pass

2M HIGH CHANNEL 1 GHz to 18 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.800	43.16	74.0	30.84	Peak	172.00	200	Vertical	Pass
1**	1329.800	33.14	54.0	20.86	AV	172.00	200	Vertical	Pass
2	2479.900	92.65	--	--	Peak	99.00	200	Vertical	N/A
2**	2479.900	91.11	--	--	AV	99.00	200	Vertical	N/A
3	4986.000	49.93	74.0	24.07	Peak	210.00	200	Vertical	Pass
3**	4986.000	40.70	54.0	13.30	AV	210.00	200	Vertical	Pass
4	7419.500	54.74	74.0	19.26	Peak	278.00	300	Vertical	Pass
4**	7419.500	45.53	54.0	8.47	AV	278.00	300	Vertical	Pass
5	12248.637	51.87	74.0	22.13	Peak	269.00	150	Vertical	Pass
5**	12248.637	42.45	54.0	11.55	AV	269.00	150	Vertical	Pass
6	16152.526	53.65	74.0	20.35	Peak	224.00	300	Vertical	Pass
6**	16152.526	44.54	54.0	9.46	AV	224.00	300	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.

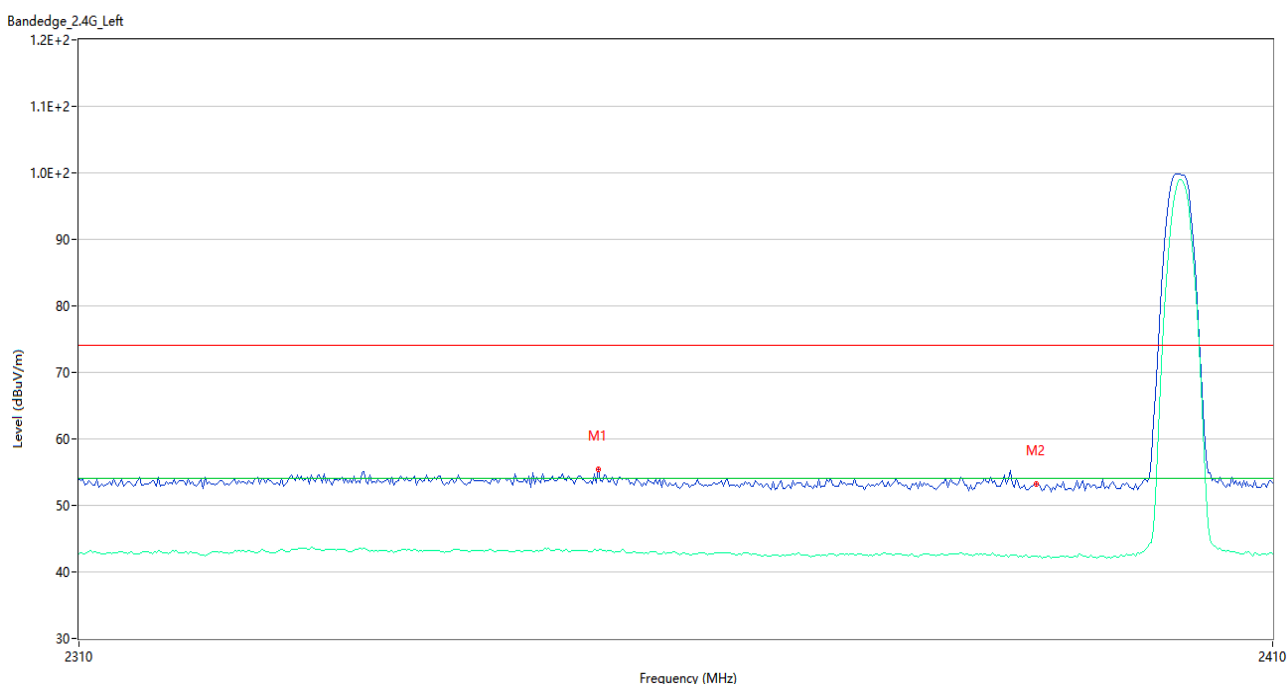
Note³: According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

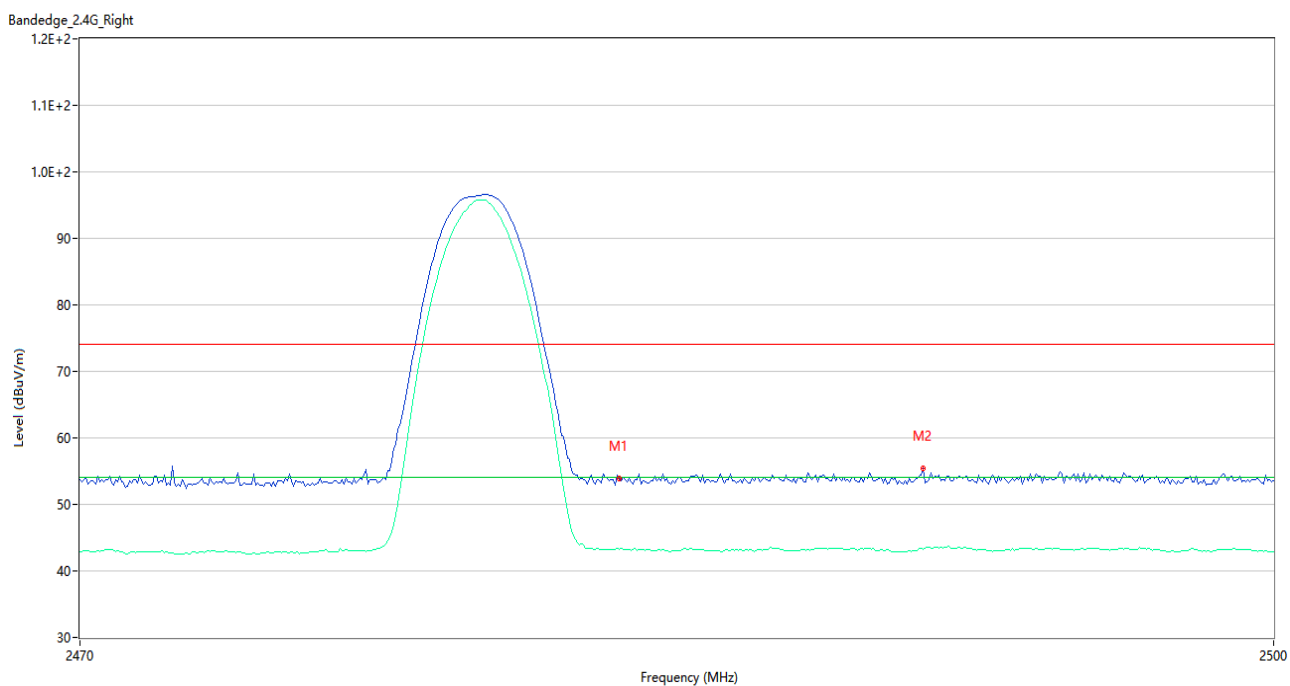
Test Data and Plots

1M LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2353.000	55.43	74.0	18.57	Peak	1.00	200	Horizontal	Pass
1**	2353.000	43.17	54.0	10.83	AV	1.00	200	Horizontal	Pass
2	2389.833	53.26	74.0	20.74	Peak	124.00	150	Horizontal	Pass
2**	2389.833	42.35	54.0	11.65	AV	124.00	150	Horizontal	Pass

1M HIGH CHANNEL



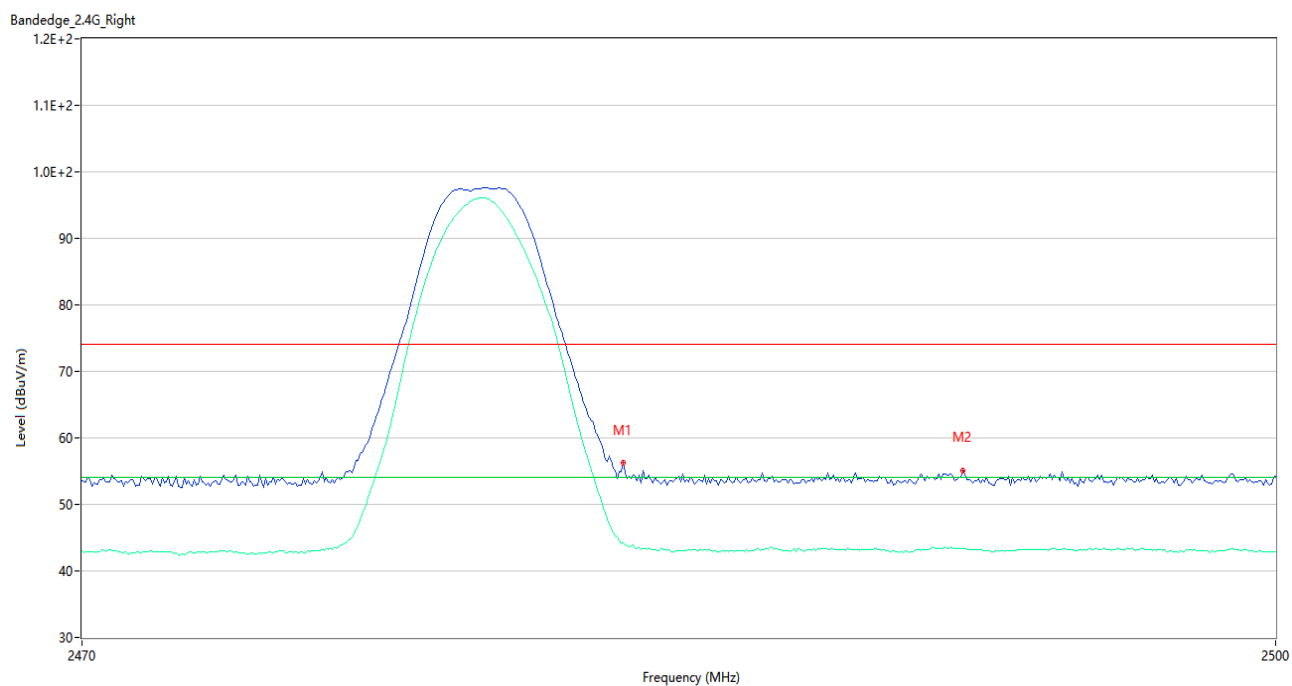
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	53.85	74.0	20.15	Peak	182.00	150	Horizontal	Pass
1**	2483.500	43.20	54.0	10.80	AV	182.00	150	Horizontal	Pass
2	2491.150	55.37	74.0	18.63	Peak	225.00	100	Horizontal	Pass
2**	2491.150	43.30	54.0	10.70	AV	225.00	100	Horizontal	Pass

2M LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2333.000	55.56	74.0	18.44	Peak	259.00	100	Horizontal	Pass
1**	2333.000	43.27	54.0	10.73	AV	259.00	100	Horizontal	Pass
2	2389.833	53.07	74.0	20.93	Peak	303.00	150	Horizontal	Pass
2**	2389.833	42.19	54.0	11.81	AV	303.00	150	Horizontal	Pass

2M HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	56.21	74.0	17.79	Peak	349.00	100	Horizontal	Pass
1**	2483.550	44.20	54.0	9.80	AV	349.00	100	Horizontal	Pass
2	2492.100	55.17	74.0	18.83	Peak	319.00	150	Horizontal	Pass
2**	2492.100	43.37	54.0	10.63	AV	319.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26060043-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060043-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26060043-AI.PDF”.

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--END OF REPORT--