



TEST REPORT

Applicant: Halter USA Inc.
Address: 2101 Pearl St, Boulder, CO 80302, USA
Equipment Type: Cow Collar
Model Name: P5 Omni
Brand Name: Halter
FCC ID: 2A9LG-P5O
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: May 08, 2026
Test Date: May 15, 2026
Date of Issue: May 29, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 29, 2026</u>	<u>Initial Issue</u>

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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	Halter USA Inc.
Address	2101 Pearl St, Boulder, CO 80302, USA

2.2 Manufacturer Information

Manufacturer	Halter USA Inc.
Address	2101 Pearl St, Boulder, CO 80302, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	Cow Collar
Model Name Under Test	P5 Omni
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	CC26040202-001-S08(radiated)
Hardware Version	2
Software Version	19
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/12/13/66/71 BLE, Lora, NFC(Rx only)
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS, DTS, DTS+FHSS
Modulation Type	FHSS, DTS, DTS+FHSS
Transfer Rate	125KHz, 500KHz
Frequency Range	The frequency range used is 902 MHz to 928 MHz.
Number of Channel	125K:88 (at intervals of 125KHz) 500K:11 (at intervals of 500KHz) FSK-HS:8 (at intervals of 500KHz)
Tested Channel	125K: 0 (902.3 MHz), 44 (911.1 MHz), 87 (919.8 MHz) 500K: 0 (903 MHz), 4 (909.4 MHz), 10 (919.1 MHz) FSK-HS: 0 (923.3 MHz), 7 (927.5 MHz)
Antenna Type	PIFA Antenna
Antenna Gain	2 dBi
Antenna Impedance	50Ω
Antenna System (MIMO Smart Antenna)	N/A

All channels were listed on the following table:

LORA 125K:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	902.3	22	906.7	44	911.1	66	915.6
1	902.5	23	906.9	45	911.3	67	915.8
2	902.7	24	907.1	46	911.5	68	916
3	902.9	25	907.3	47	911.7	69	916.2
4	903.1	26	907.5	48	911.9	70	916.4
5	903.3	27	907.7	49	912.1	71	916.6
6	903.5	28	907.9	50	912.3	72	916.8
7	903.7	29	908.1	51	912.5	73	917.0
8	903.9	30	908.3	52	912.7	74	917.2
9	904.1	31	908.5	53	912.9	75	917.4
10	904.3	32	908.7	54	913.1	76	917.6
11	904.5	33	908.9	55	913.3	77	917.8
12	904.7	34	909.1	56	913.5	78	918.0
13	904.9	35	909.3	57	913.7	79	918.2
14	905.1	36	909.5	58	913.9	80	918.4
15	905.3	37	909.7	59	914.1	81	918.6
16	905.5	38	909.9	60	914.3	82	918.8
17	905.7	39	910.1	61	914.5	83	919.0
18	905.9	40	910.3	62	914.7	84	919.2
19	906.1	41	910.5	63	914.9	85	919.4
20	906.3	42	910.7	64	915.2	86	919.6
21	906.5	43	910.9	65	915.4	87	919.8

LORA 500K:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	903	3	907.8	6	912.6	9	917.4
1	904.6	4	909.4	7	914.2	10	919.8
2	906.2	5	911	8	915.8		

LORA FSK-HS:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
0	923.3	2	924.5	4	925.7	6	926.9
1	923.9	3	925.1	5	926.3	7	927.5

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	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
1	Antenna Requirement	15.203	N/A	N/A	--	Pass ^{Note1}
2	Output Power	15.247(b)	N/A	Low/Middle/High	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247(a)	N/A	Low/Middle/High	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247(d)	N/A	Hopping Mode, Low/Middle/High	ANNEX A.3	Pass
5	Band Edge(Authorized-band band-edge)	15.247(d)	N/A	Hopping Mode, Low/High	ANNEX A.4	Pass
6	Conducted Emission	15.207	N/A	Low/Middle/High	ANNEX A.5	N/A ^{Note2}
7	Radiated Spurious Emission	15.209 15.247(d)	N/A	Low/Middle/High	ANNEX A.6	Pass
8	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	N/A	Low/Middle/High	ANNEX A.7	Pass
9	Power spectral density (PSD)	15.247(e)	N/A	Low/Middle/High	ANNEX A.8	Pass
10	Number of Hopping Frequencies	15.247(a)	N/A	Hopping Mode	ANNEX A.9	Pass
11	Carrier Frequency Separation	15.247(a)	N/A	Hopping Mode	ANNEX A.10	Pass
12	Time of Occupancy (Dwell time)	15.247(a)	N/A	Hopping Mode	ANNEX A.11	Pass

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

Note 2: The EUT is only supported by battery.

Note 3: Compared with the EUT of test report Ti-CC26030001-602 the EUT of this report has changed as below:

1. LTE&LORA antennas optimized from original design.

Therefore, Radiated Spurious Emission and Band Edge(Restricted-band band-edge) were tested in this report, other test projects refer to the original report No. Ti-CC26030001-602. which is issued Shanghai Tejet Communications Technology Co., Ltd. Testing Center on Apr. 23, 2026.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	47% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.3°C to +23.7°C
Working Voltage of the EUT	NV (Normal Voltage)	3.7V

4.2 Test Equipment List

Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
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
BL410E	BALUN	V21.919	N/A	The section 4.6.2&4.6.3&4.6.4&4.6.5

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	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
All emissions, radiated	3.70 dB
Temperature	0.82 °C
Humidity	4.08 %

4.5 Decision Rule

- ☐ No Need
☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)
☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

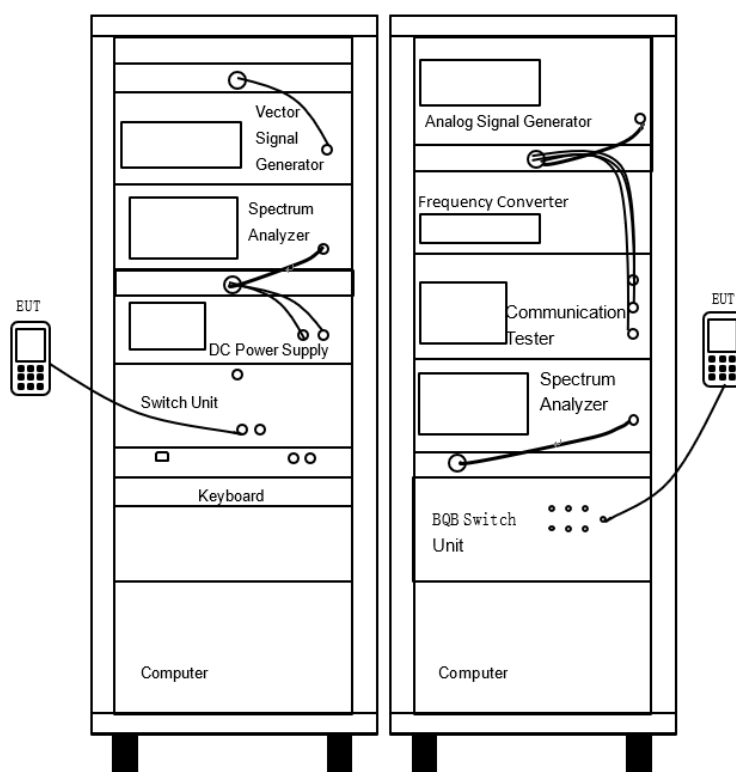
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

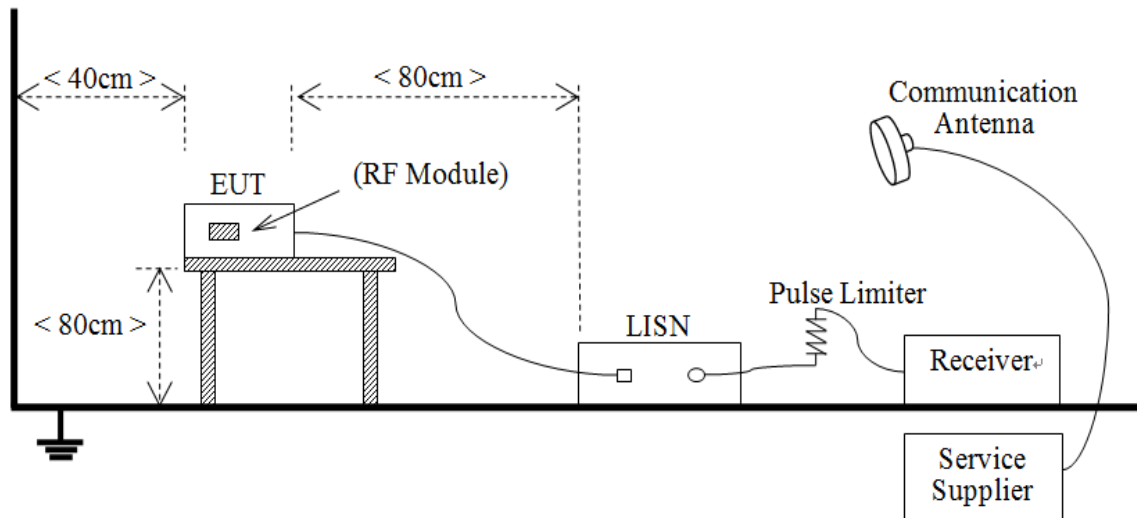
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



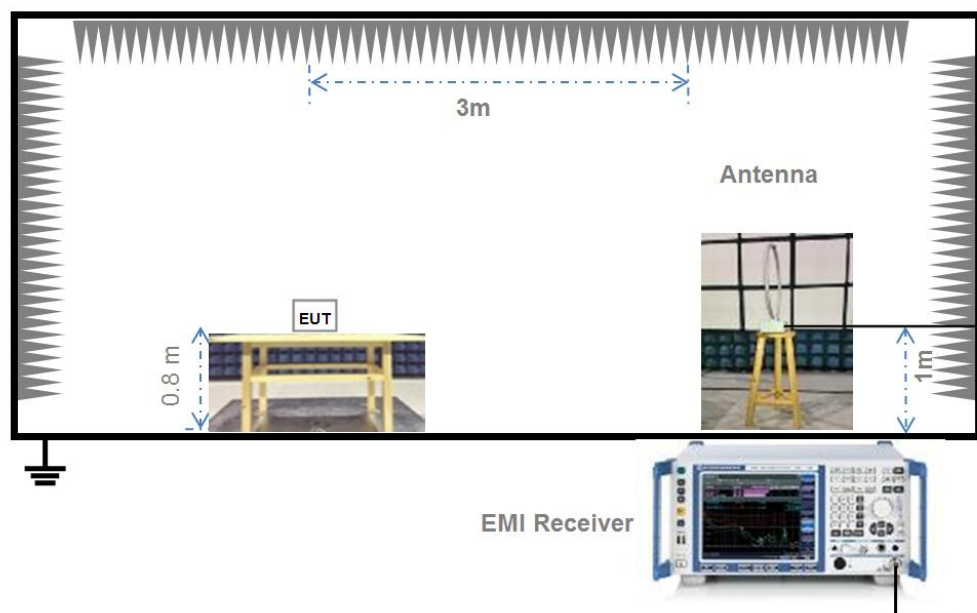
(Diagram 1)

4.6.2 For AC Power Supply Port Test



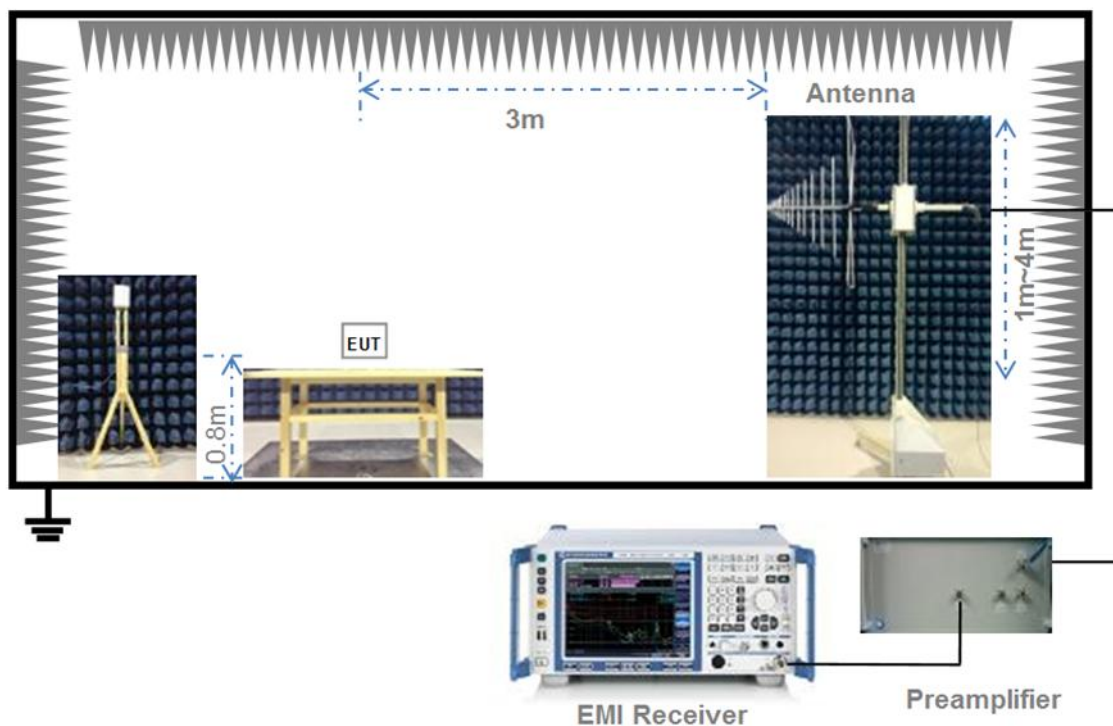
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



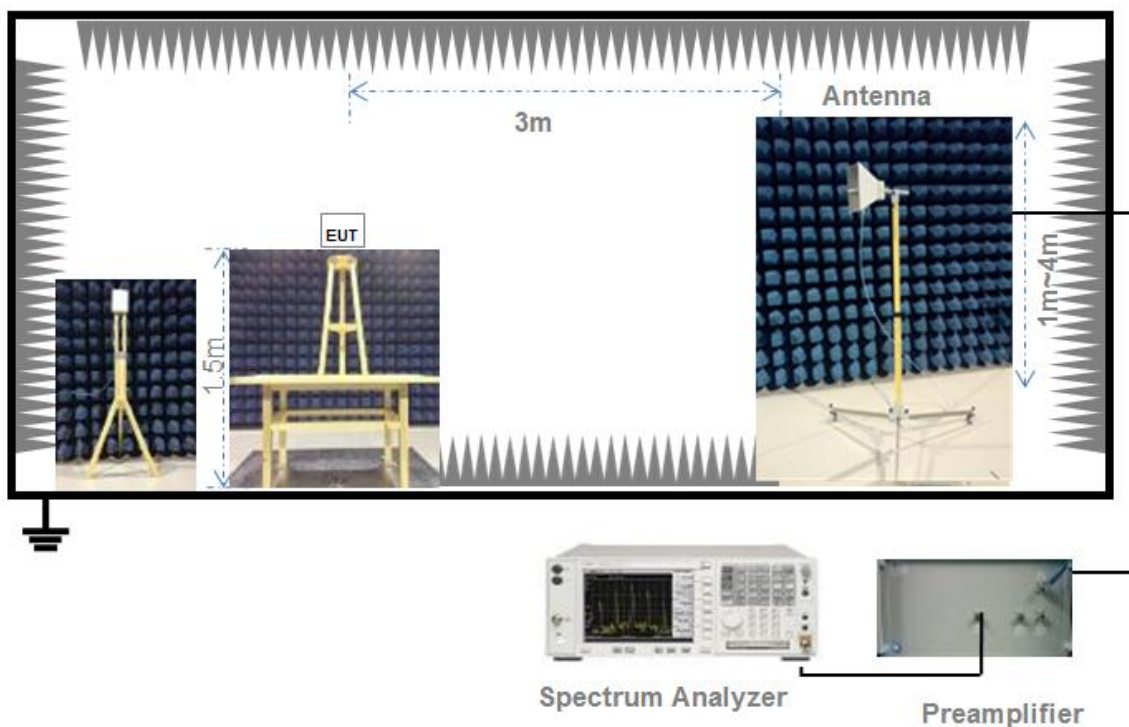
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.7 Measurement Results Explanation Example

4.7.1 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.

4.7.2 For radiated band edges and spurious emission test:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

a) Maximum peak conducted output power

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Set the RBW $\geq$ DTS bandwidth.

Set VBW $\geq 3 \times$ RBW.

Set span $\geq 3 \times$ RBW

Sweep time = auto couple.

Detector = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

b) Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Conducted Spurious Emission

5.4.1 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.

5.4.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement:

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement:

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.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Band Edge (Authorized-band band-edge)

5.5.1 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.

5.5.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Conducted Emission

5.6.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

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

5.6.2 Test Setup

See section 4.6.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.6.3 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.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Radiated Spurious Emission

5.7.1 Limit

FCC §15.209&15.247(d)

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

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

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	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 ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
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).

5.7.2 Test Setup

See section 4.6.3 to 4.6.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure:

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction:

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain:

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test:

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30MHz 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

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Band Edge (Restricted-band band-edge)

5.8.1 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).

5.8.2 Test Setup

See section 4.6.3 to 4.6.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 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.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

the transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2 The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.9.2 Test Setup

See section 4.6.1 (Diagram 1) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Frequency Hopping Systems

5.10.1 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.

5.10.2 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.

5.11 Number of Hopping Frequencies

5.11.1 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.

5.11.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 Test Procedure

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

Span = The frequency band of operation

RBW = To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.11.4 Test Result

Please refer to ANNEX A.9.

5.12 Carrier Frequency Separation

5.12.1 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.

5.12.2 Test Setup

See section 4.6.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.12.3 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.

5.12.4 Test Result

Please refer to ANNEX A.10.

5.13 Time of Occupancy (Dwell time)

5.13.1 Limit

FCC §15.247(a)

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

5.13.2 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.

5.13.3 Test Procedure

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.

5.13.4 Test Result

Please refer to ANNEX A.11

ANNEX A TEST RESULT

A.1 Output Power, Duty Cycle

Note: The Output Power, Duty Cycle, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.1.

A.2 Occupied Bandwidth

Note: The Occupied Bandwidth, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.2.

A.3 Conducted Spurious Emission

Note: The Conducted Spurious Emission, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.3.

A.4 Band Edge (Authorized-band band-edge)

Note: The Band Edge (Authorized-band band-edge), please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.4.

A.5 Conducted Emission

Note: Not applicable.

A.6 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 C63.10-2020, 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.

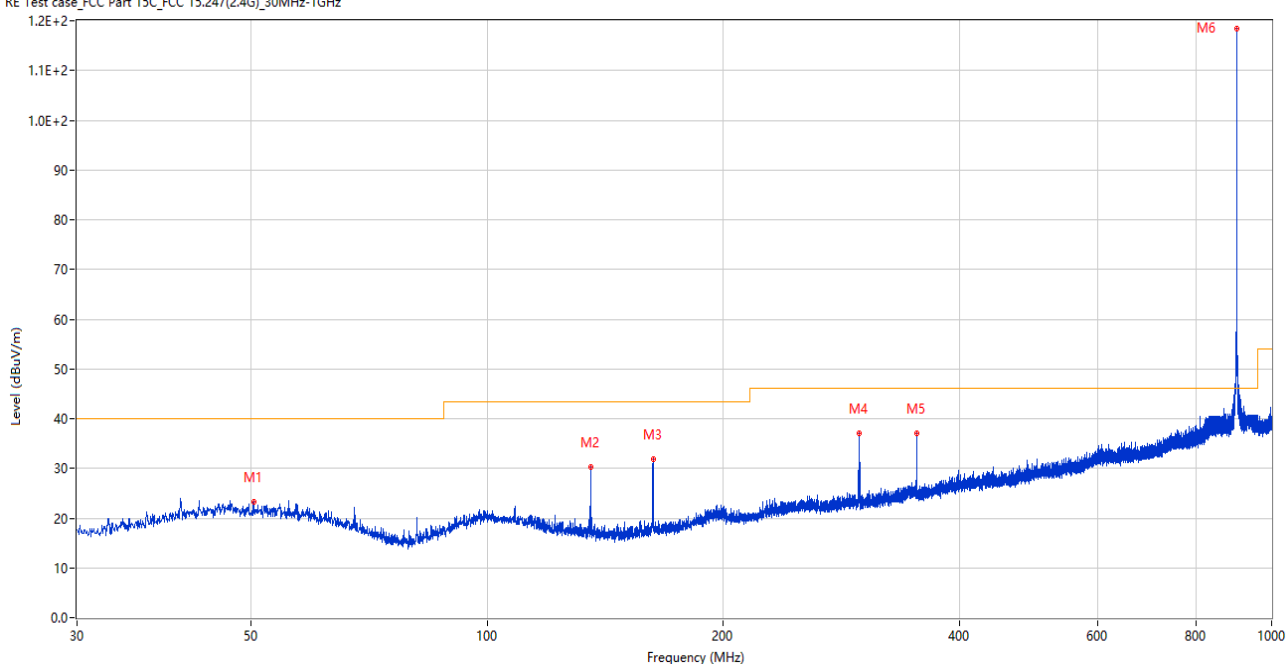
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported

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

Test Data and Plots

LORA (125K) LOW CHANNEL, 30 MHz to 1 GHz, ANT H

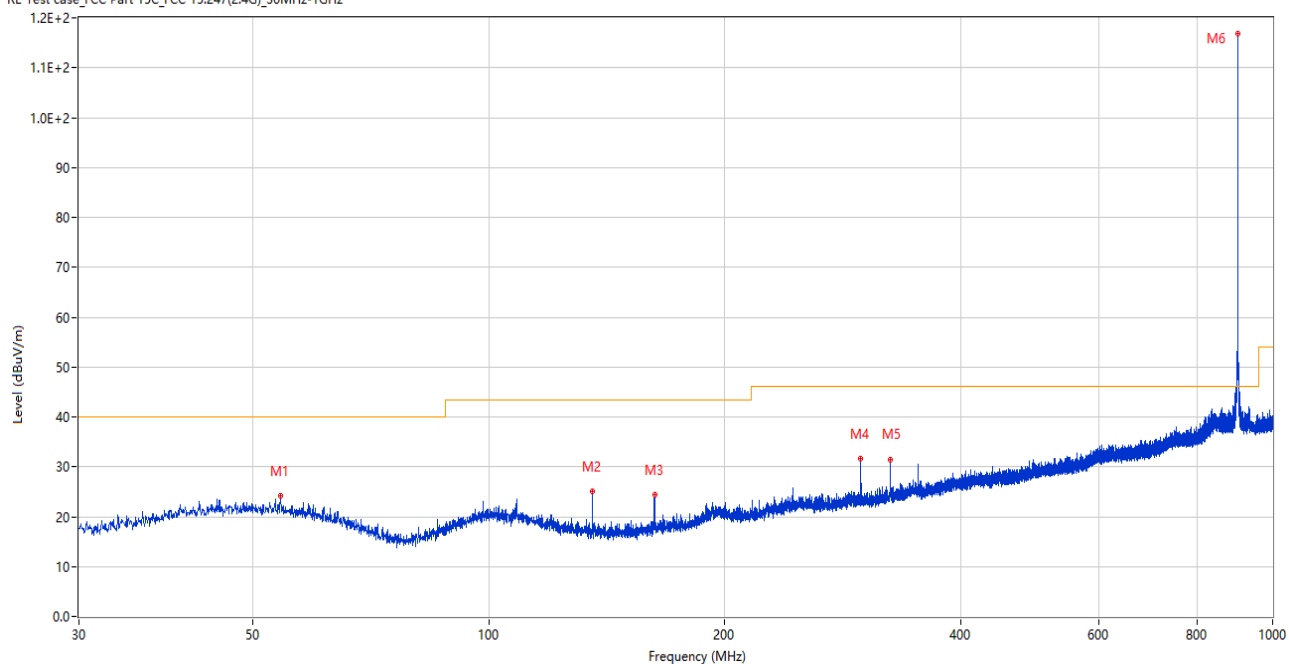
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.370	23.18	-14.53	40.0	16.82	Peak	258.00	100	Horizontal	Pass
2	135.584	30.26	-19.33	43.5	13.24	Peak	340.00	100	Horizontal	Pass
3	162.745	31.78	-18.62	43.5	11.72	Peak	162.00	100	Horizontal	Pass
4	298.302	37.04	-13.23	46.0	8.96	Peak	344.00	200	Horizontal	Pass
5	352.573	37.07	-11.59	46.0	8.93	Peak	0.00	100	Horizontal	Pass
6	902.273	118.35	0.82	46.0	-72.35	Peak	171.00	200	Horizontal	N/A

LORA (125K) LOW CHANNEL ,30 MHz to 1 GHz, ANT V

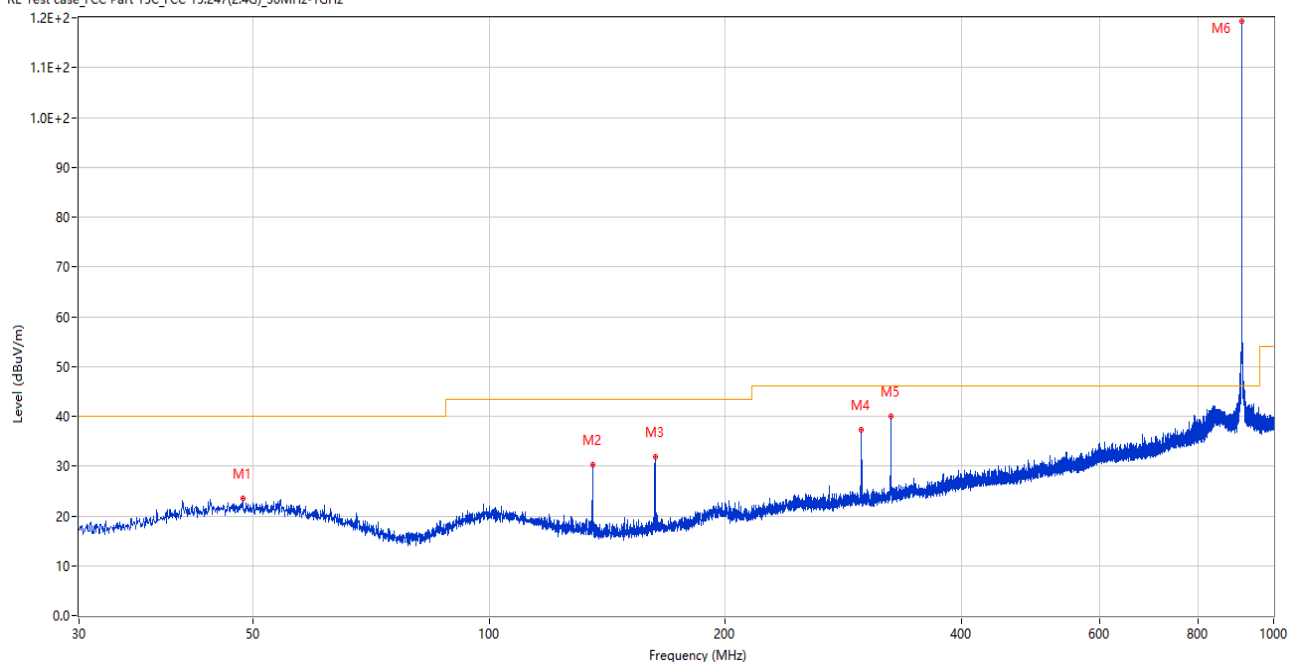
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.250	24.15	-14.99	40.0	15.85	Peak	269.00	100	Vertical	Pass
2	135.584	25.16	-19.33	43.5	18.34	Peak	242.00	200	Vertical	Pass
3	162.696	24.39	-18.63	43.5	19.11	Peak	99.00	200	Vertical	Pass
4	298.350	31.61	-13.23	46.0	14.39	Peak	99.00	100	Vertical	Pass
5	325.414	31.36	-12.53	46.0	14.64	Peak	112.00	100	Vertical	Pass
6	902.321	116.74	0.82	46.0	-70.74	Peak	64.00	200	Vertical	N/A

LORA (125K) MIDDLE CHANNEL,30 MHz to 1 GHz, ANT H

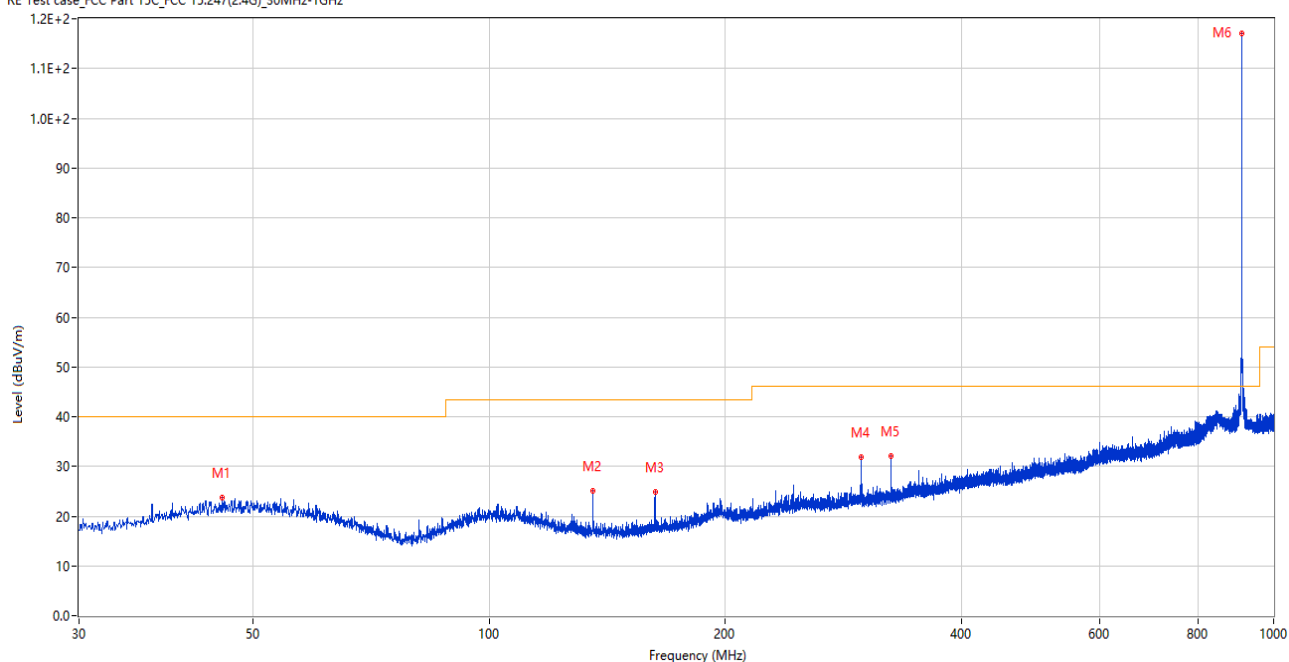
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.527	23.44	-14.50	40.0	16.56	Peak	360.00	200	Horizontal	Pass
2	135.584	30.30	-19.33	43.5	13.20	Peak	343.00	100	Horizontal	Pass
3	162.745	31.86	-18.62	43.5	11.64	Peak	167.00	100	Horizontal	Pass
4	298.302	37.34	-13.23	46.0	8.66	Peak	360.00	200	Horizontal	Pass
5	325.414	40.00	-12.53	46.0	6.00	Peak	161.00	100	Horizontal	Pass
6	911.051	119.32	0.76	46.0	-73.32	Peak	126.00	200	Horizontal	N/A

LORA (125K) MIDDLE CHANNEL ,30 MHz to 1 GHz, ANT V

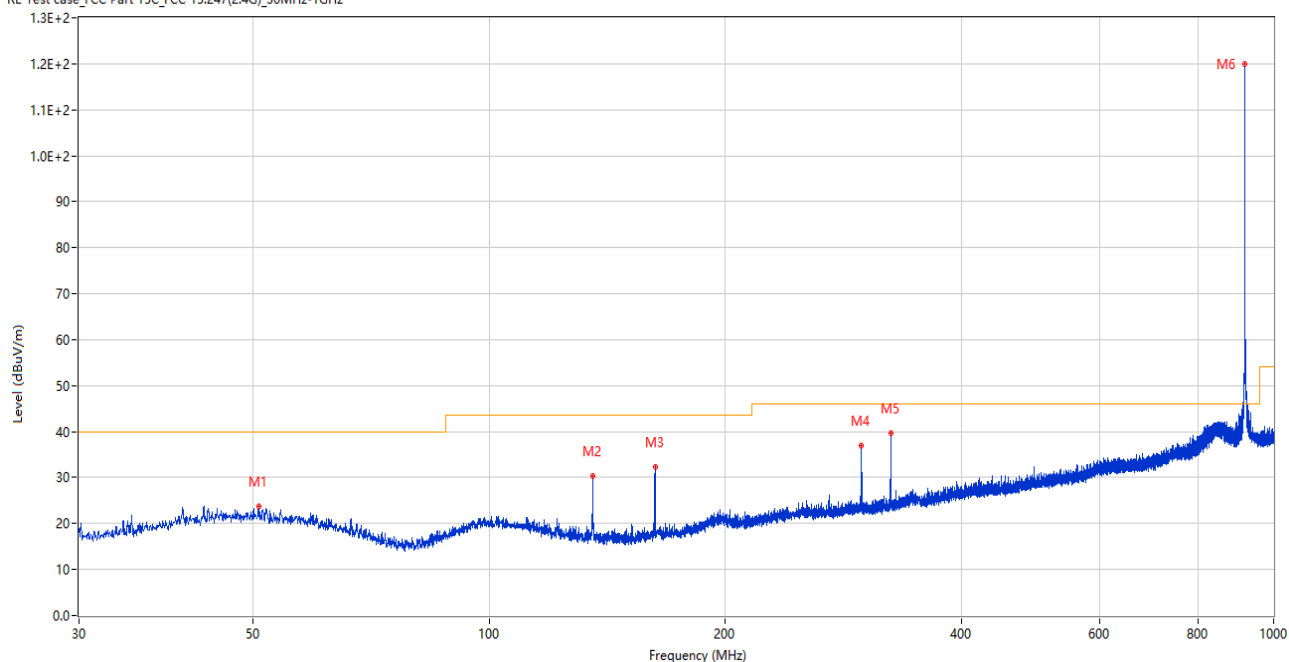
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.617	23.68	-14.66	40.0	16.32	Peak	318.00	200	Vertical	Pass
2	135.633	25.08	-19.33	43.5	18.42	Peak	245.00	200	Vertical	Pass
3	162.696	24.89	-18.63	43.5	18.61	Peak	256.00	100	Vertical	Pass
4	298.302	31.82	-13.23	46.0	14.18	Peak	117.00	100	Vertical	Pass
5	325.462	32.05	-12.53	46.0	13.95	Peak	76.00	100	Vertical	Pass
6	911.051	117.17	0.76	46.0	-71.17	Peak	76.00	200	Vertical	N/A

LORA (125K) HIGH CHANNEL,30 MHz to 1 GHz, ANT H

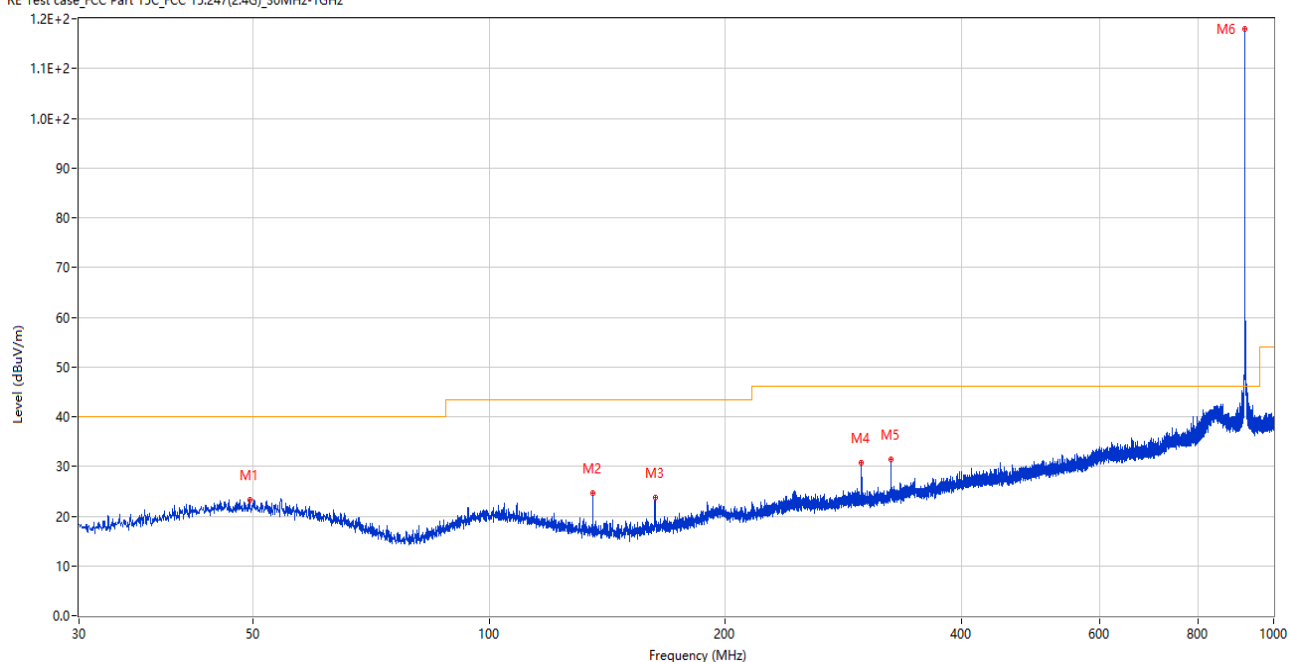
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.806	23.69	-14.58	40.0	16.31	Peak	145.00	100	Horizontal	Pass
2	135.584	30.45	-19.33	43.5	13.05	Peak	343.00	100	Horizontal	Pass
3	162.745	32.28	-18.62	43.5	11.22	Peak	182.00	100	Horizontal	Pass
4	298.302	37.05	-13.23	46.0	8.95	Peak	360.00	200	Horizontal	Pass
5	325.414	39.58	-12.53	46.0	6.42	Peak	158.00	100	Horizontal	Pass
6	919.732	119.86	0.82	46.0	-73.86	Peak	164.00	200	Horizontal	N/A

LORA (125K) HIGH CHANNEL ,30 MHz to 1 GHz, ANT V

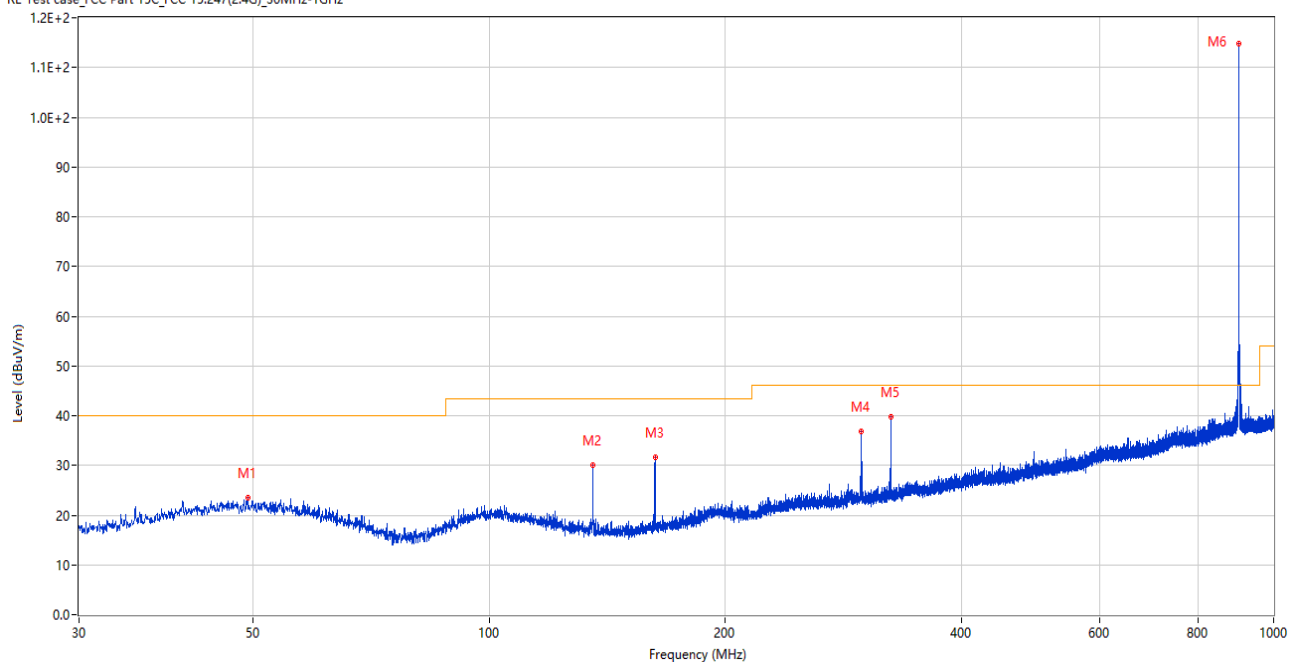
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.497	23.29	-14.54	40.0	16.71	Peak	15.00	200	Vertical	Pass
2	135.584	24.61	-19.33	43.5	18.89	Peak	240.00	200	Vertical	Pass
3	162.696	23.70	-18.63	43.5	19.80	Peak	228.00	200	Vertical	Pass
4	298.302	30.70	-13.23	46.0	15.30	Peak	94.00	100	Vertical	Pass
5	325.462	31.46	-12.53	46.0	14.54	Peak	82.00	100	Vertical	Pass
6	919.781	117.92	0.82	46.0	-71.92	Peak	89.00	200	Vertical	N/A

LORA (500K) LOW CHANNEL, 30 MHz to 1 GHz, ANT H

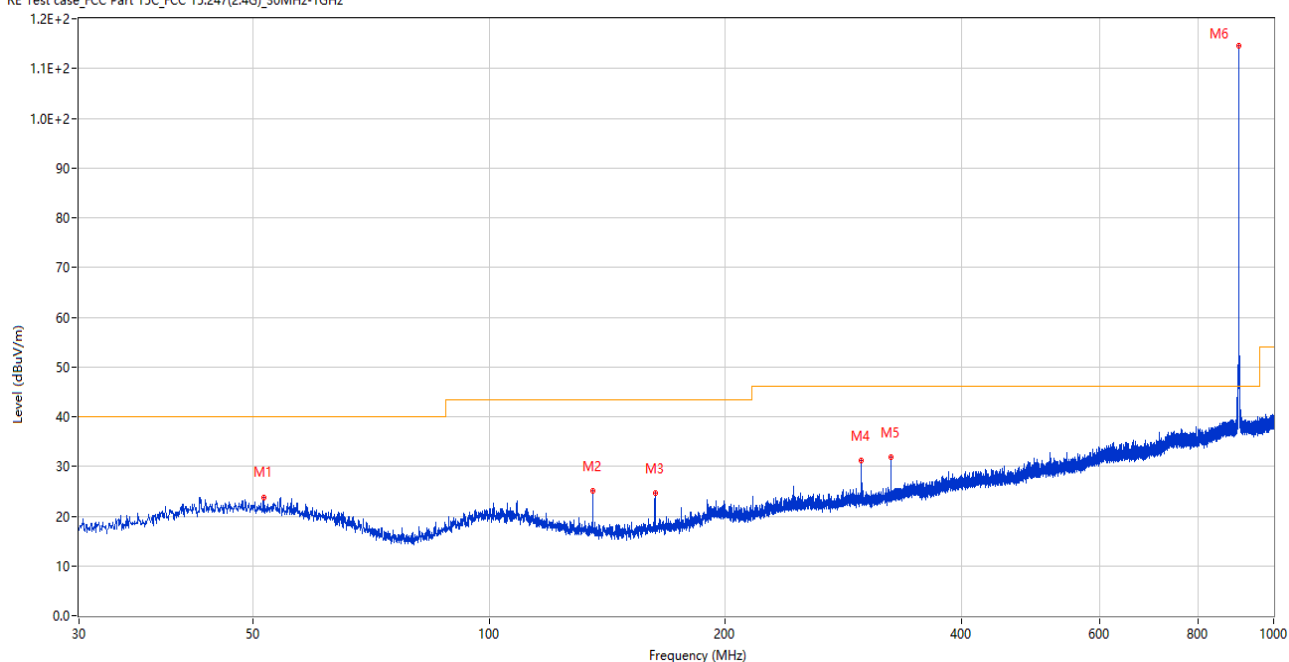
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.206	23.40	-14.51	40.0	16.60	Peak	12.00	200	Horizontal	Pass
2	135.633	29.97	-19.33	43.5	13.53	Peak	358.00	100	Horizontal	Pass
3	162.745	31.72	-18.62	43.5	11.78	Peak	184.00	100	Horizontal	Pass
4	298.302	36.92	-13.23	46.0	9.08	Peak	360.00	200	Horizontal	Pass
5	325.462	39.80	-12.53	46.0	6.20	Peak	178.00	100	Horizontal	Pass
6	903.242	114.75	0.80	46.0	-68.75	Peak	184.00	100	Horizontal	N/A

LORA (500K) LOW CHANNEL ,30 MHz to 1 GHz, ANT V

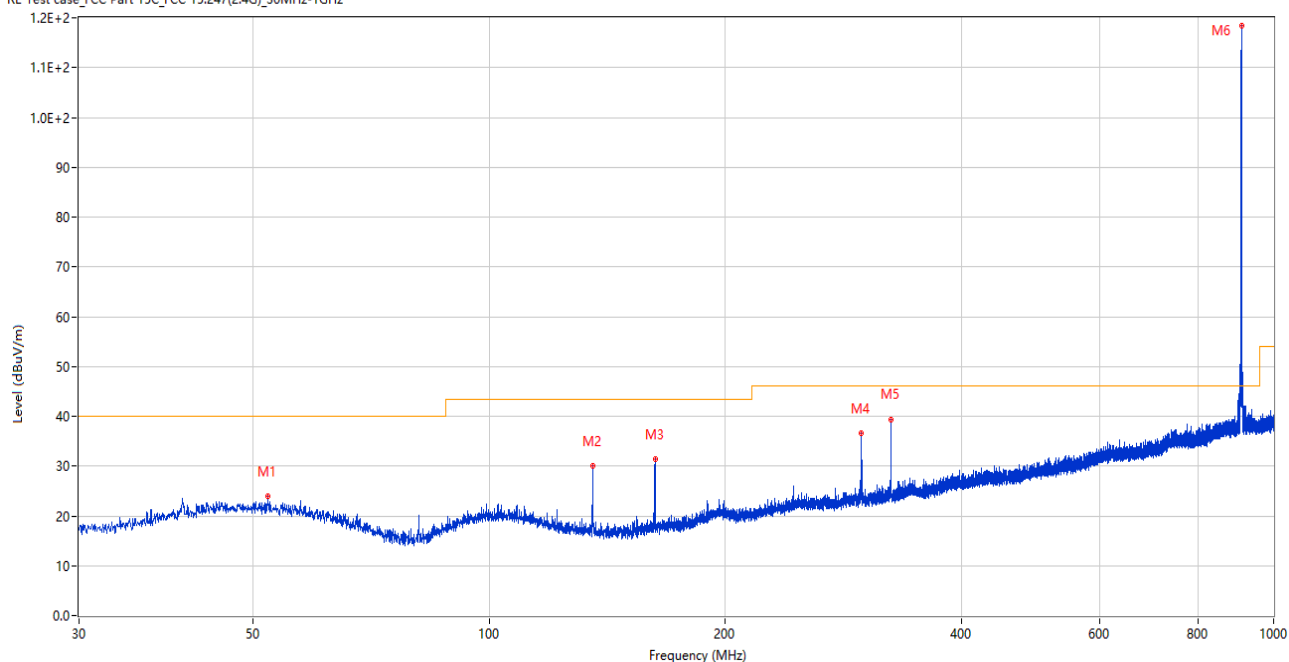
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.583	23.83	-14.67	40.0	16.17	Peak	19.00	200	Vertical	Pass
2	135.584	25.05	-19.33	43.5	18.45	Peak	225.00	200	Vertical	Pass
3	162.696	24.61	-18.63	43.5	18.89	Peak	14.00	200	Vertical	Pass
4	298.350	31.08	-13.23	46.0	14.92	Peak	86.00	100	Vertical	Pass
5	325.462	31.90	-12.53	46.0	14.10	Peak	79.00	100	Vertical	Pass
6	902.951	114.58	0.80	46.0	-68.58	Peak	0.00	100	Vertical	N/A

LORA (500K) MIDDLE CHANNEL,30 MHz to 1 GHz, ANT H

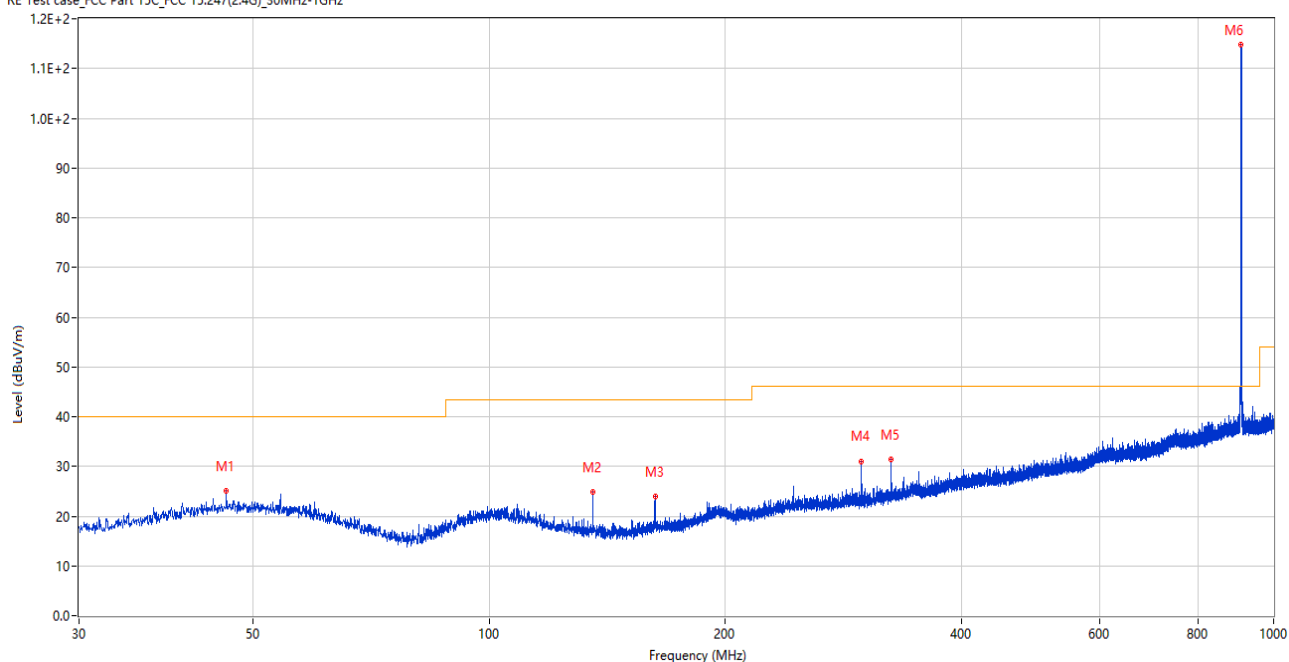
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.213	23.89	-14.71	40.0	16.11	Peak	243.00	100	Horizontal	Pass
2	135.584	29.97	-19.33	43.5	13.53	Peak	339.00	100	Horizontal	Pass
3	162.745	31.32	-18.62	43.5	12.18	Peak	160.00	100	Horizontal	Pass
4	298.302	36.61	-13.23	46.0	9.39	Peak	356.00	200	Horizontal	Pass
5	325.462	39.42	-12.53	46.0	6.58	Peak	167.00	100	Horizontal	Pass
6	909.596	118.32	0.78	46.0	-72.32	Peak	155.00	100	Horizontal	N/A

LORA (500K) MIDDLE CHANNEL ,30 MHz to 1 GHz, ANT V

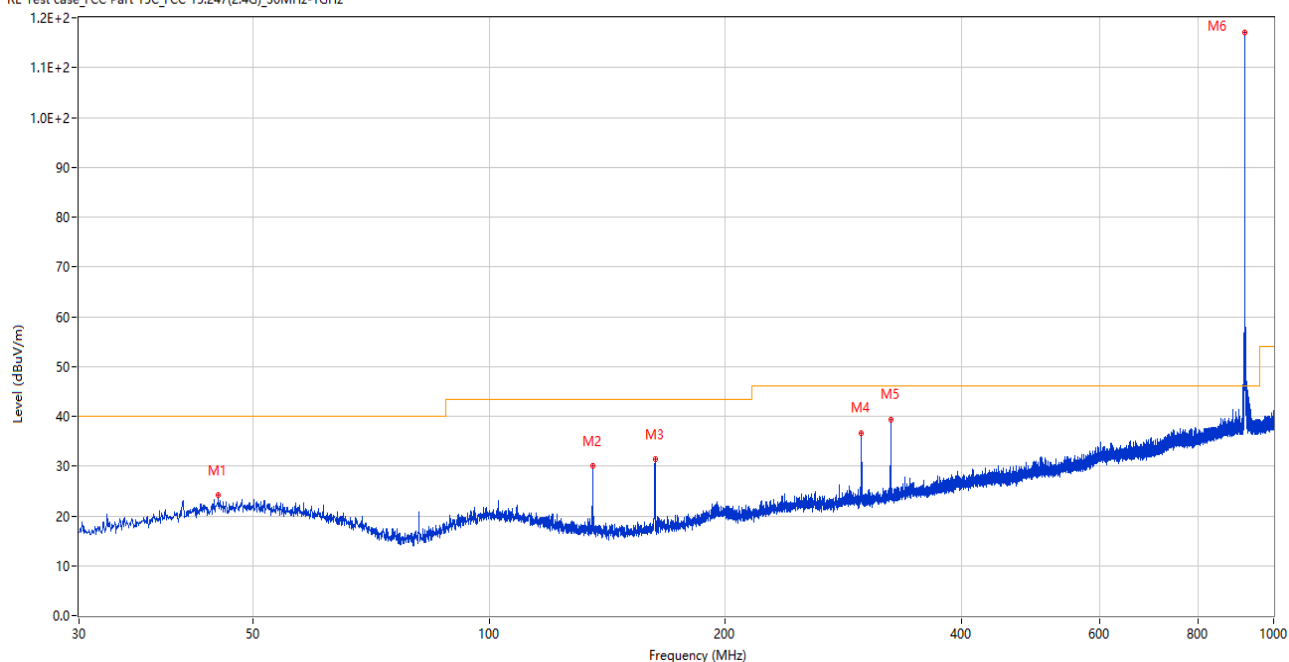
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.248	25.11	-14.59	40.0	14.89	Peak	139.00	200	Vertical	Pass
2	135.584	24.84	-19.33	43.5	18.66	Peak	248.00	200	Vertical	Pass
3	162.745	23.96	-18.62	43.5	19.54	Peak	360.00	200	Vertical	Pass
4	298.302	31.06	-13.23	46.0	14.94	Peak	71.00	100	Vertical	Pass
5	325.462	31.32	-12.53	46.0	14.68	Peak	106.00	100	Vertical	Pass
6	909.499	114.82	0.78	46.0	-68.82	Peak	121.00	200	Vertical	N/A

LORA (500K) HIGH CHANNEL,30 MHz to 1 GHz, ANT H

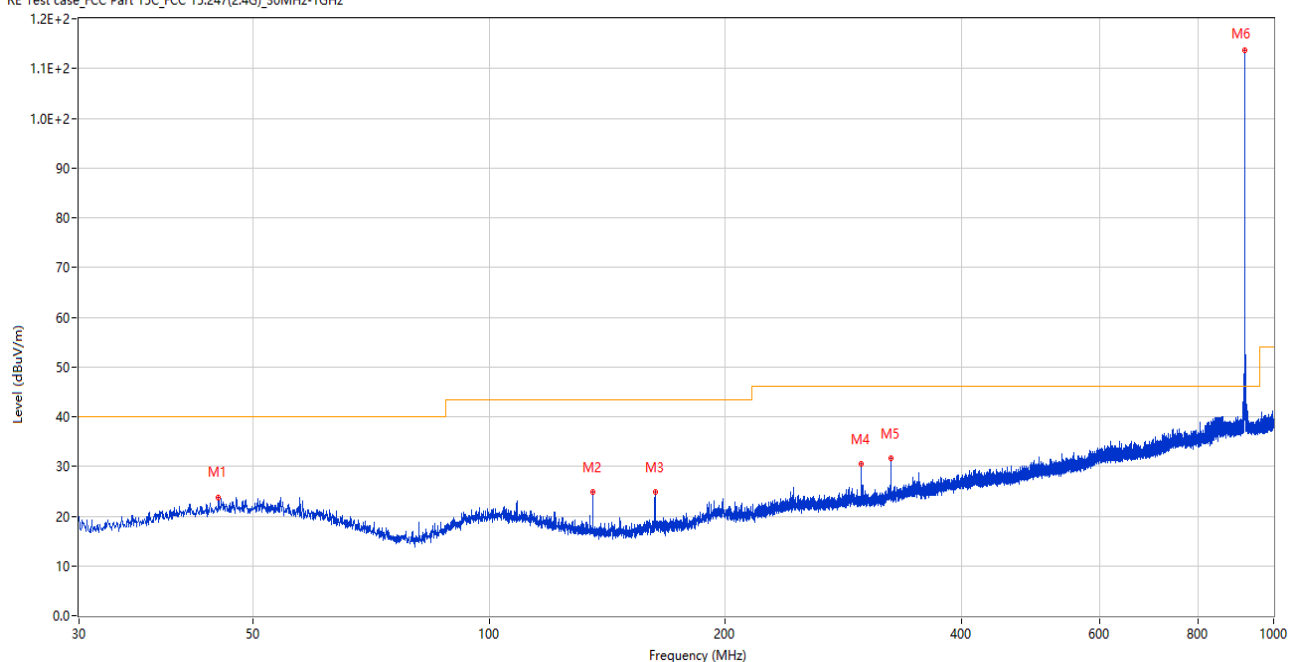
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.132	24.09	-14.71	40.0	15.91	Peak	0.00	100	Horizontal	Pass
2	135.584	29.97	-19.33	43.5	13.53	Peak	325.00	100	Horizontal	Pass
3	162.696	31.37	-18.63	43.5	12.13	Peak	175.00	100	Horizontal	Pass
4	298.302	36.58	-13.23	46.0	9.42	Peak	360.00	200	Horizontal	Pass
5	325.414	39.42	-12.53	46.0	6.58	Peak	163.00	100	Horizontal	Pass
6	919.296	117.17	0.79	46.0	-71.17	Peak	175.00	200	Horizontal	N/A

LORA (500K) HIGH CHANNEL ,30 MHz to 1 GHz, ANT V

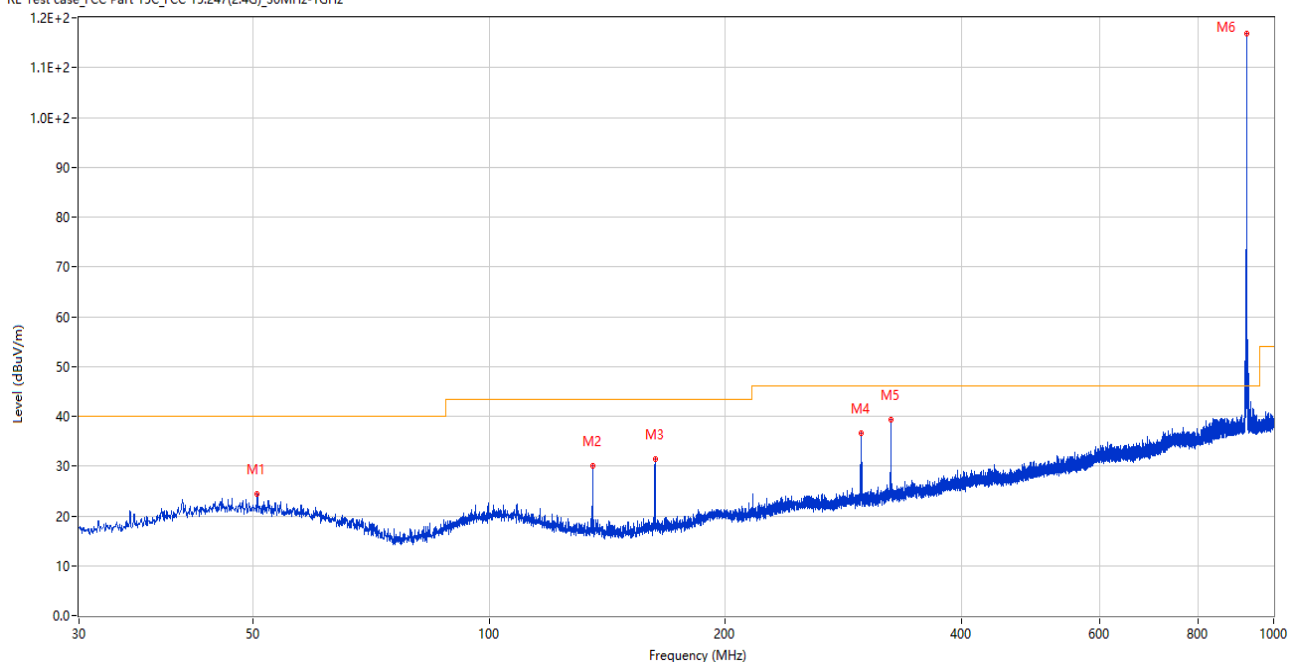
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.181	23.82	-14.71	40.0	16.18	Peak	357.00	100	Vertical	Pass
2	135.584	24.87	-19.33	43.5	18.63	Peak	249.00	200	Vertical	Pass
3	162.696	24.91	-18.63	43.5	18.59	Peak	81.00	200	Vertical	Pass
4	298.302	30.53	-13.23	46.0	15.47	Peak	101.00	100	Vertical	Pass
5	325.414	31.60	-12.53	46.0	14.40	Peak	112.00	100	Vertical	Pass
6	919.054	113.71	0.80	46.0	-67.71	Peak	1.00	200	Vertical	N/A

LORA (FSK-HS) LOW CHANNEL,30 MHz to 1 GHz, ANT H

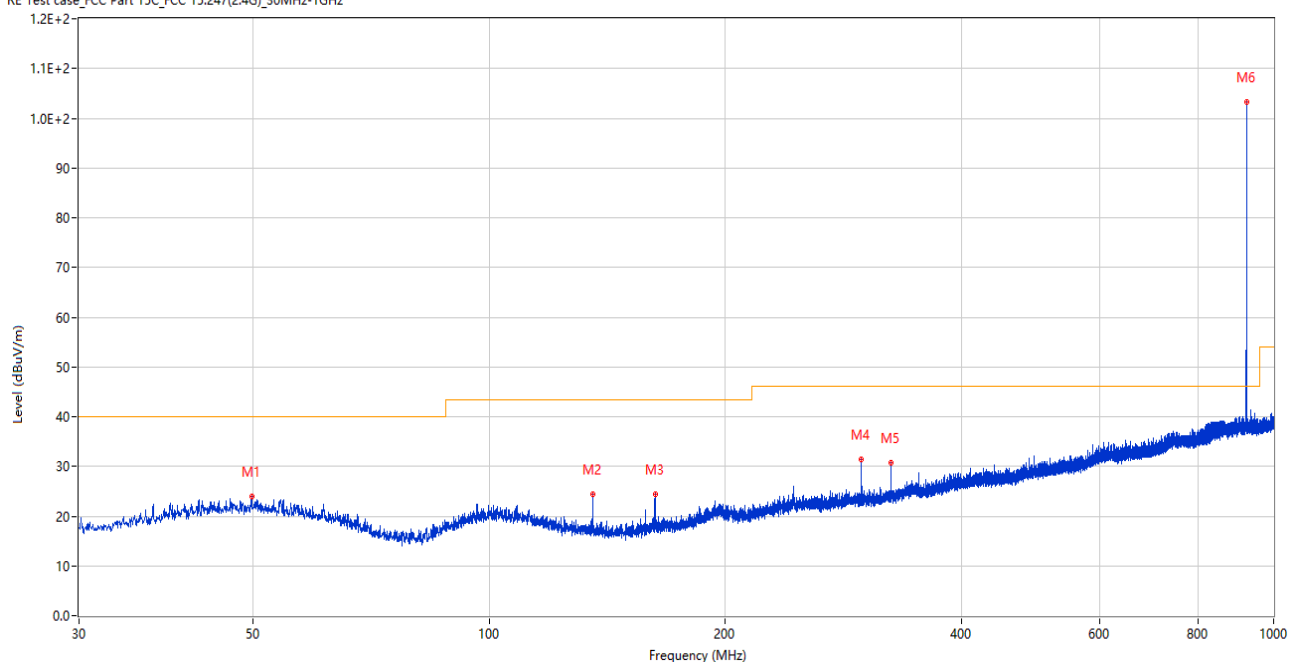
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.612	24.48	-14.56	40.0	15.52	Peak	36.00	200	Horizontal	Pass
2	135.584	30.01	-19.33	43.5	13.49	Peak	337.00	100	Horizontal	Pass
3	162.696	31.32	-18.63	43.5	12.18	Peak	172.00	100	Horizontal	Pass
4	298.302	36.54	-13.23	46.0	9.46	Peak	323.00	200	Horizontal	Pass
5	325.462	39.31	-12.53	46.0	6.69	Peak	166.00	100	Horizontal	Pass
6	923.321	116.73	0.94	46.0	-70.73	Peak	148.00	100	Horizontal	N/A

LORA (FSK-HS) LOW CHANNEL ,30 MHz to 1 GHz, ANT V

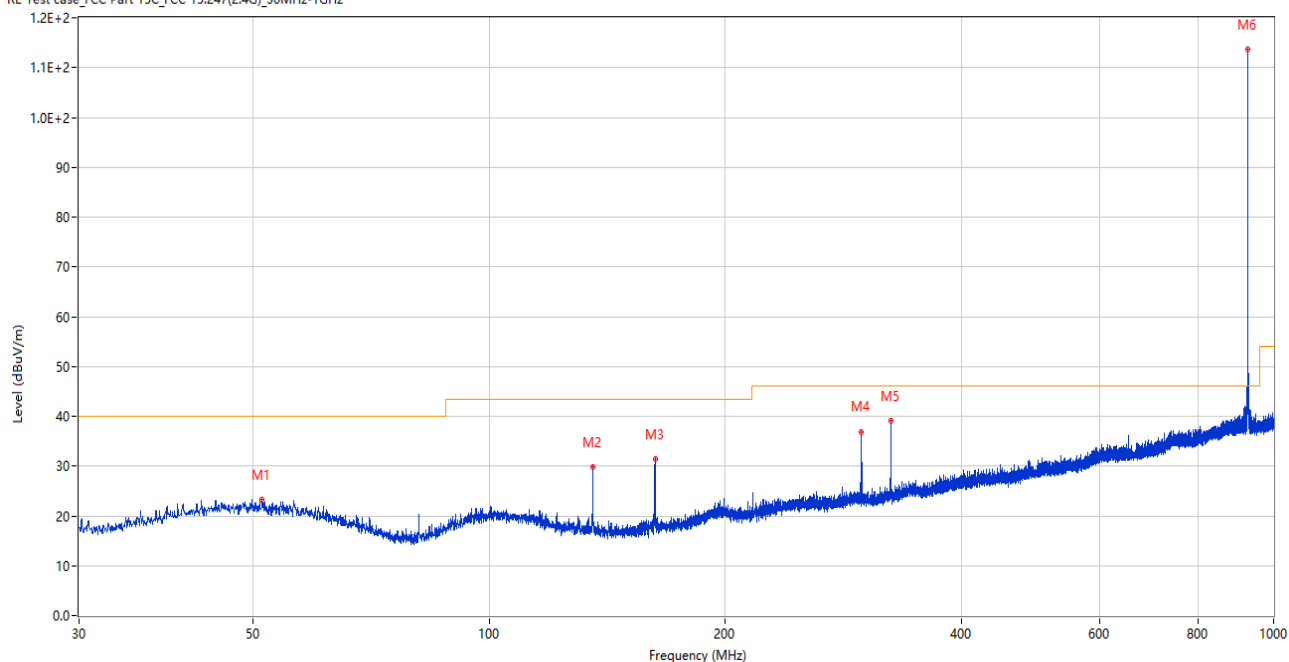
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.788	24.00	-14.52	40.0	16.00	Peak	146.00	200	Vertical	Pass
2	135.584	24.30	-19.33	43.5	19.20	Peak	248.00	200	Vertical	Pass
3	162.745	24.33	-18.62	43.5	19.17	Peak	146.00	200	Vertical	Pass
4	298.302	31.42	-13.23	46.0	14.58	Peak	77.00	100	Vertical	Pass
5	325.462	30.63	-12.53	46.0	15.37	Peak	89.00	100	Vertical	Pass
6	923.273	103.37	0.94	46.0	-57.37	Peak	240.00	100	Vertical	N/A

LORA (FSK-HS) HIGH CHANNEL,30 MHz to 1 GHz, ANT H

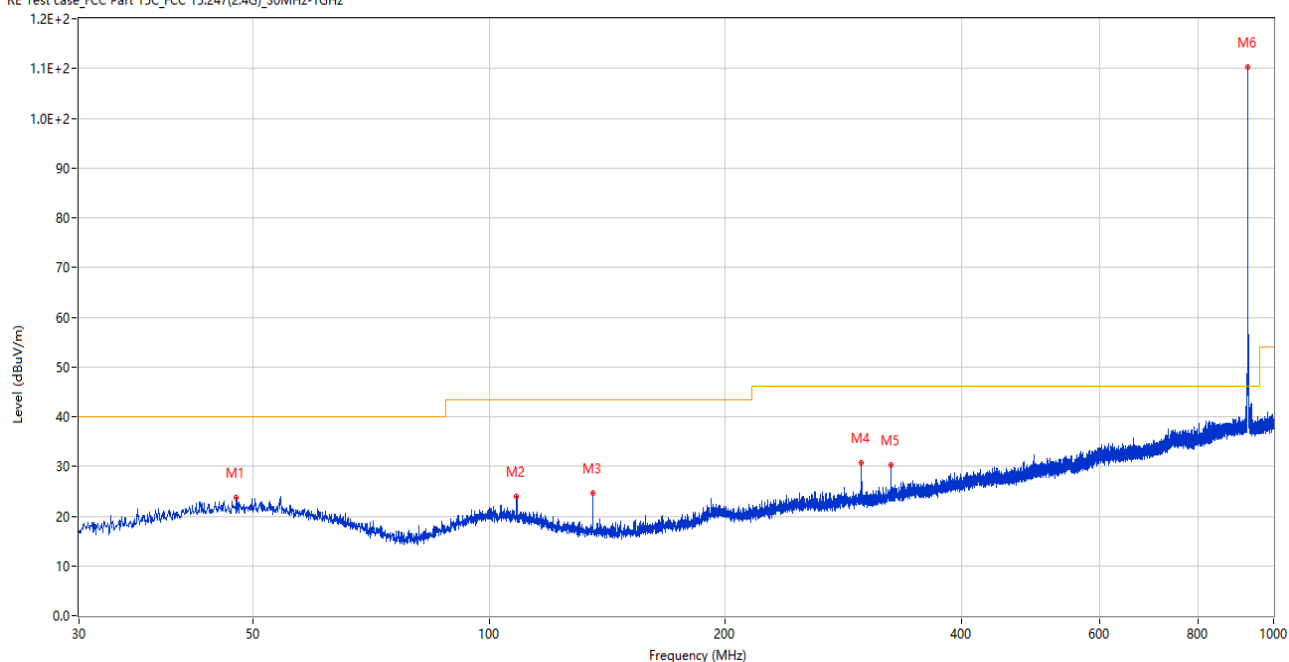
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.389	23.35	-14.65	40.0	16.65	Peak	314.00	100	Horizontal	Pass
2	135.584	29.82	-19.33	43.5	13.68	Peak	347.00	100	Horizontal	Pass
3	162.745	31.38	-18.62	43.5	12.12	Peak	170.00	100	Horizontal	Pass
4	298.302	36.94	-13.23	46.0	9.06	Peak	1.00	200	Horizontal	Pass
5	325.462	39.05	-12.53	46.0	6.95	Peak	176.00	100	Horizontal	Pass
6	927.492	113.75	1.15	46.0	-67.75	Peak	359.00	100	Horizontal	N/A

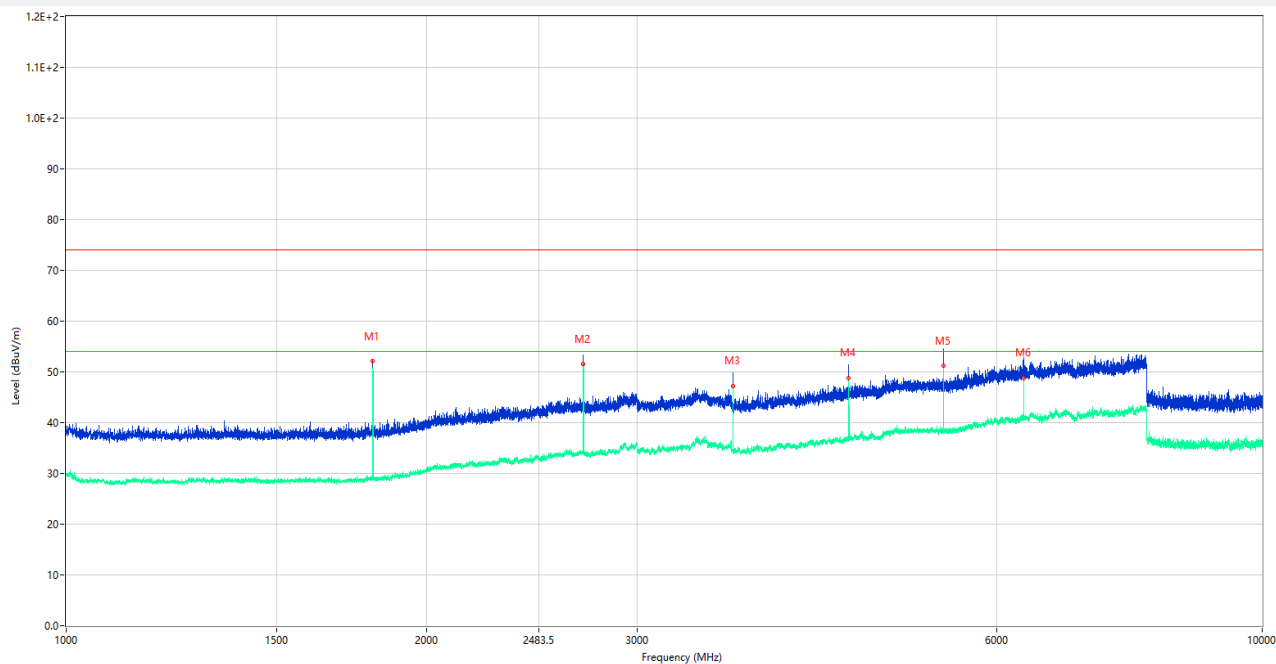
LORA (FSK-HS) HIGH CHANNEL ,30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



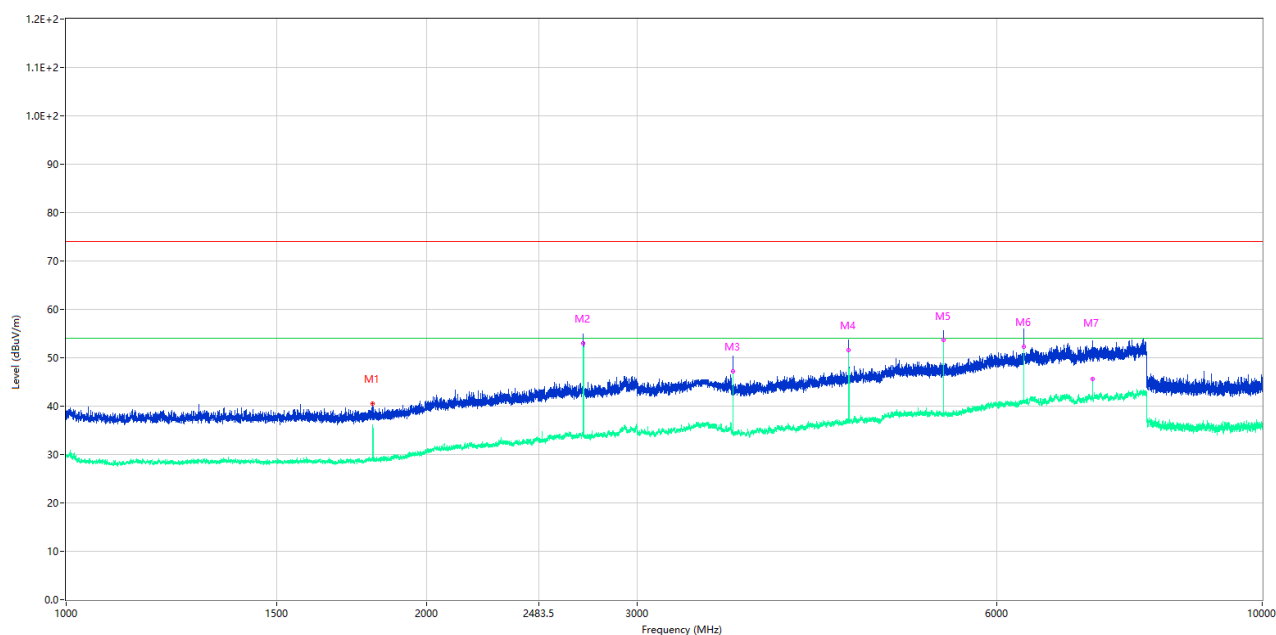
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.605	23.79	-14.54	40.0	16.21	Peak	240.00	100	Vertical	Pass
2	108.424	23.94	-16.52	43.5	19.56	Peak	260.00	200	Vertical	Pass
3	135.584	24.57	-19.33	43.5	18.93	Peak	236.00	200	Vertical	Pass
4	298.350	30.80	-13.23	46.0	15.20	Peak	133.00	100	Vertical	Pass
5	325.462	30.19	-12.53	46.0	15.81	Peak	262.00	100	Vertical	Pass
6	927.687	110.21	1.15	46.0	-64.21	Peak	0.00	100	Vertical	N/A

LORA (125K) LOW CHANNEL 1 GHz to 10 GHz, ANT H



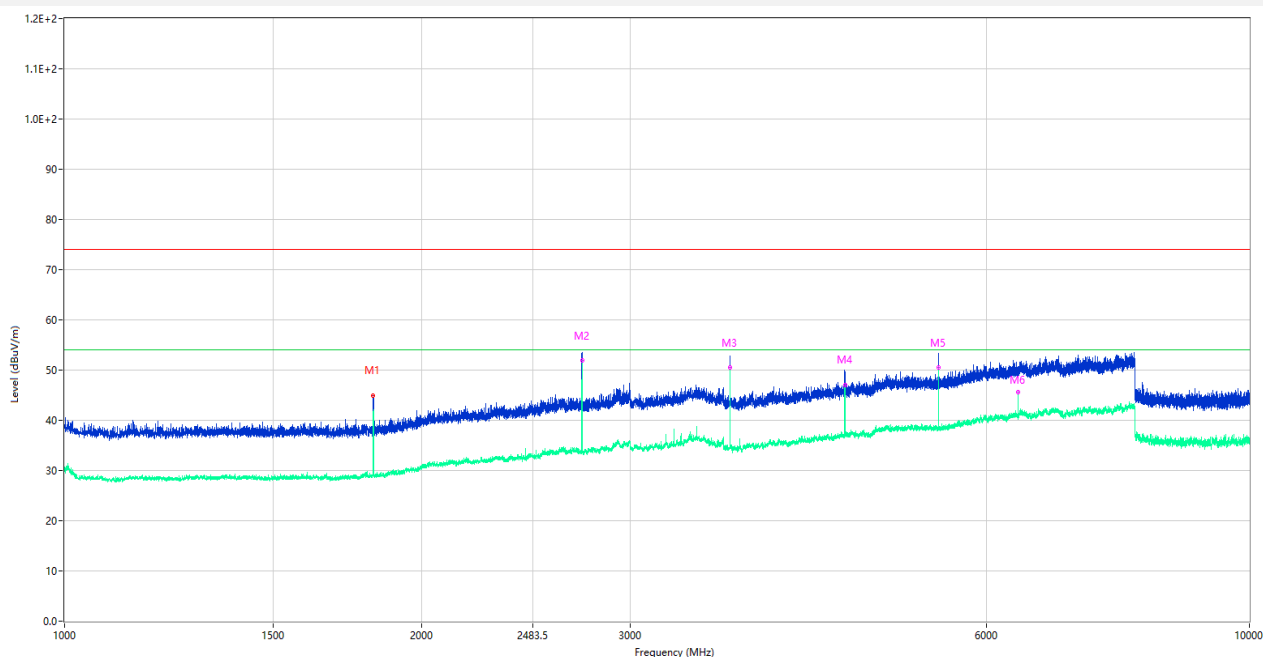
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1804.500	52.02	-15.86	74.0	21.98	Peak	104.00	150	Horizontal	Pass
1**	1804.500	48.87	-15.86	54.0	5.13	AV	104.00	150	Horizontal	Pass
2	2707.250	52.93	-10.37	74.0	21.07	Peak	349.00	150	Horizontal	Pass
2**	2707.250	51.56	-10.37	54.0	2.44	AV	349.00	150	Horizontal	Pass
3	3609.500	49.10	-5.09	74.0	24.90	Peak	246.00	150	Horizontal	Pass
3**	3609.500	47.20	-5.09	54.0	6.80	AV	246.00	150	Horizontal	Pass
4	4512.000	51.14	-3.10	74.0	22.86	Peak	359.00	150	Horizontal	Pass
4**	4512.000	48.82	-3.10	54.0	5.18	AV	359.00	150	Horizontal	Pass
5	5414.500	50.16	-2.48	74.0	23.84	Peak	60.00	150	Horizontal	Pass
5**	5414.500	51.22	-2.48	54.0	2.78	AV	60.00	150	Horizontal	Pass
6	6316.500	52.66	-0.31	74.0	21.34	Peak	179.00	150	Horizontal	Pass
6**	6316.500	48.84	-0.31	54.0	5.16	AV	179.00	150	Horizontal	Pass

LORA (125K) LOW CHANNEL 1 GHz to 10 GHz, ANT V



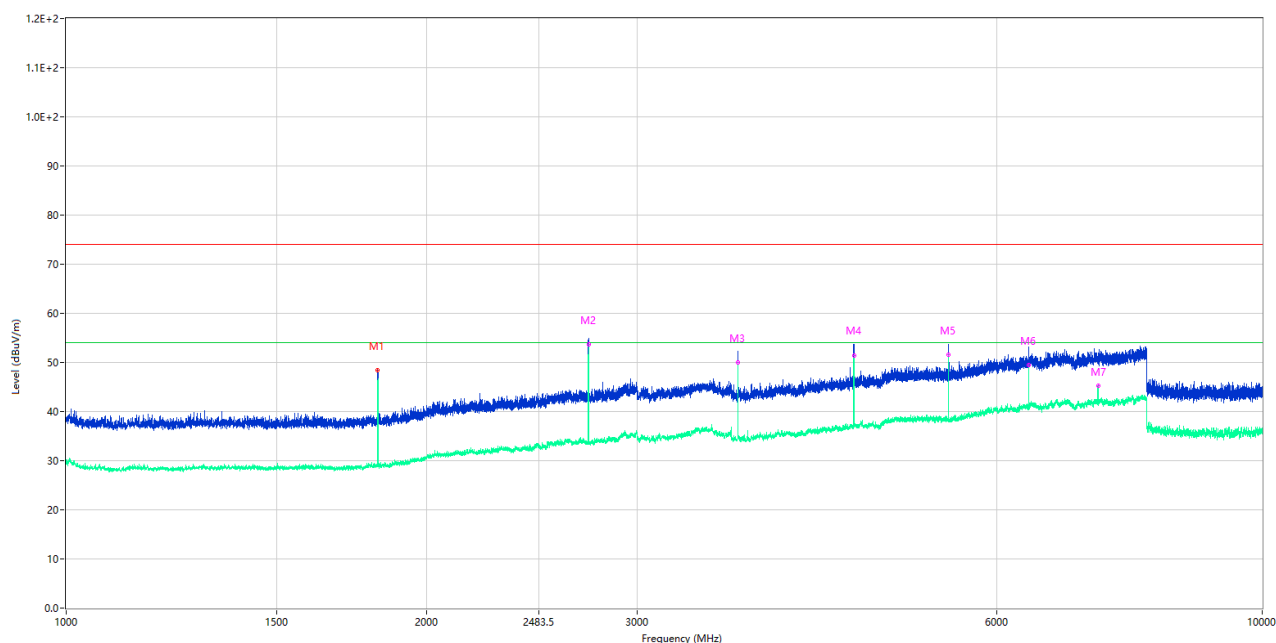
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1804.750	40.58	-15.87	74.0	33.42	Peak	350.00	150	Vertical	Pass
1**	1804.750	35.91	-15.87	54.0	18.09	AV	350.00	150	Vertical	Pass
2	2707.000	54.34	-10.36	74.0	19.66	Peak	104.00	150	Vertical	Pass
2**	2707.000	53.06	-10.36	54.0	0.94	AV	104.00	150	Vertical	Pass
3	3609.500	50.28	-5.09	74.0	23.72	Peak	29.00	150	Vertical	Pass
3**	3609.500	47.25	-5.09	54.0	6.75	AV	29.00	150	Vertical	Pass
4	4512.000	53.07	-3.10	74.0	20.93	Peak	1.00	150	Vertical	Pass
4**	4512.000	51.59	-3.10	54.0	2.41	AV	1.00	150	Vertical	Pass
5	5414.500	55.44	-2.48	74.0	18.56	Peak	129.00	150	Vertical	Pass
5**	5414.500	53.63	-2.48	54.0	0.37	AV	129.00	150	Vertical	Pass
6	6316.000	55.90	-0.29	74.0	18.10	Peak	8.00	150	Vertical	Pass
6**	6316.000	52.33	-0.29	54.0	1.67	AV	8.00	150	Vertical	Pass
7	7218.500	51.11	0.38	74.0	22.89	Peak	20.00	150	Vertical	Pass
7**	7218.500	45.69	0.38	54.0	8.31	AV	20.00	150	Vertical	Pass

LORA (125K) MIDDLE CHANNEL 1 GHz to 10 GHz, ANT H



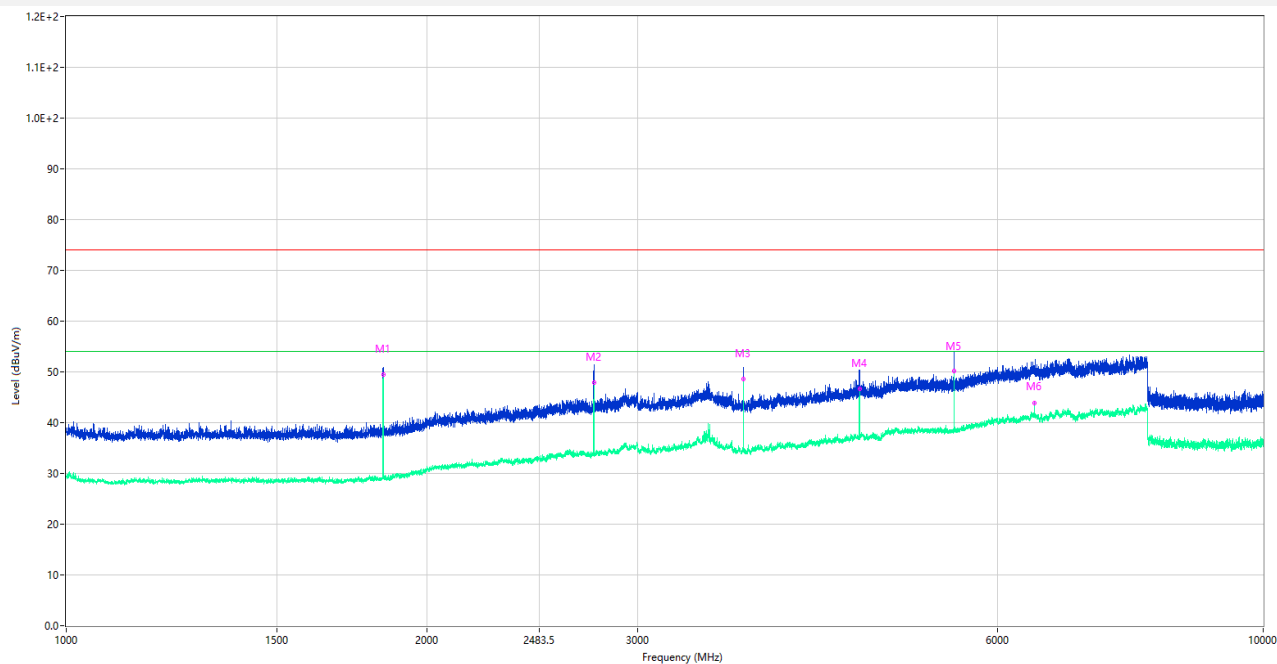
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1822.250	44.97	-16.05	74.0	29.03	Peak	356.00	150	Horizontal	Pass
1**	1822.250	41.46	-16.05	54.0	12.54	AV	356.00	150	Horizontal	Pass
2	2733.750	52.87	-10.67	74.0	21.13	Peak	65.00	150	Horizontal	Pass
2**	2733.750	51.87	-10.67	54.0	2.13	AV	65.00	150	Horizontal	Pass
3	3645.000	51.71	-5.33	74.0	22.29	Peak	113.00	150	Horizontal	Pass
3**	3645.000	50.52	-5.33	54.0	3.48	AV	113.00	150	Horizontal	Pass
4	4556.000	49.65	-2.83	74.0	24.35	Peak	251.00	150	Horizontal	Pass
4**	4556.000	47.07	-2.83	54.0	6.93	AV	251.00	150	Horizontal	Pass
5	5467.000	53.40	-2.33	74.0	20.60	Peak	301.00	150	Horizontal	Pass
5**	5467.000	50.46	-2.33	54.0	3.54	AV	301.00	150	Horizontal	Pass
6	6378.000	50.23	-0.27	74.0	23.77	Peak	170.00	150	Horizontal	Pass
6**	6378.000	46.25	-0.27	54.0	7.75	AV	170.00	150	Horizontal	Pass

LORA (125K) MIDDLE CHANNEL 1 GHz to 10 GHz, ANT V



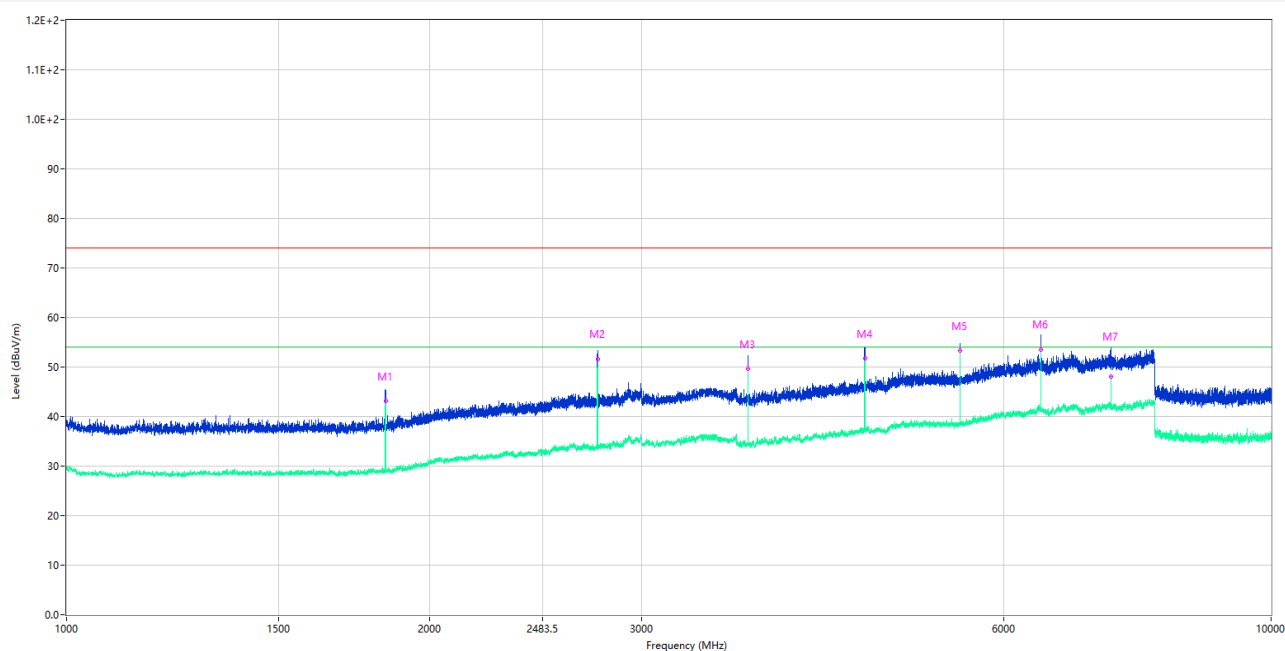
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1822.250	48.38	-16.05	74.0	25.62	Peak	256.00	150	Vertical	Pass
1**	1822.250	45.94	-16.05	54.0	8.06	AV	256.00	150	Vertical	Pass
2	2733.500	54.42	-10.68	74.0	19.58	Peak	68.00	150	Vertical	Pass
2**	2733.500	53.67	-10.68	54.0	0.33	AV	68.00	150	Vertical	Pass
3	3644.500	52.04	-5.37	74.0	21.96	Peak	41.00	150	Vertical	Pass
3**	3644.500	49.96	-5.37	54.0	4.04	AV	41.00	150	Vertical	Pass
4	4556.000	53.76	-2.83	74.0	20.24	Peak	1.00	150	Vertical	Pass
4**	4556.000	51.48	-2.83	54.0	2.52	AV	1.00	150	Vertical	Pass
5	5467.500	52.34	-2.33	74.0	21.66	Peak	22.00	150	Vertical	Pass
5**	5467.500	51.50	-2.33	54.0	2.50	AV	22.00	150	Vertical	Pass
6	6378.500	51.94	-0.26	74.0	22.06	Peak	99.00	150	Vertical	Pass
6**	6378.500	49.40	-0.26	54.0	4.60	AV	99.00	150	Vertical	Pass
7	7289.500	50.18	0.35	74.0	23.82	Peak	0.00	150	Vertical	Pass
7**	7289.500	45.24	0.35	54.0	8.76	AV	0.00	150	Vertical	Pass

LORA (125K) HIGH CHANNEL 1 GHz to 10 GHz, ANT H



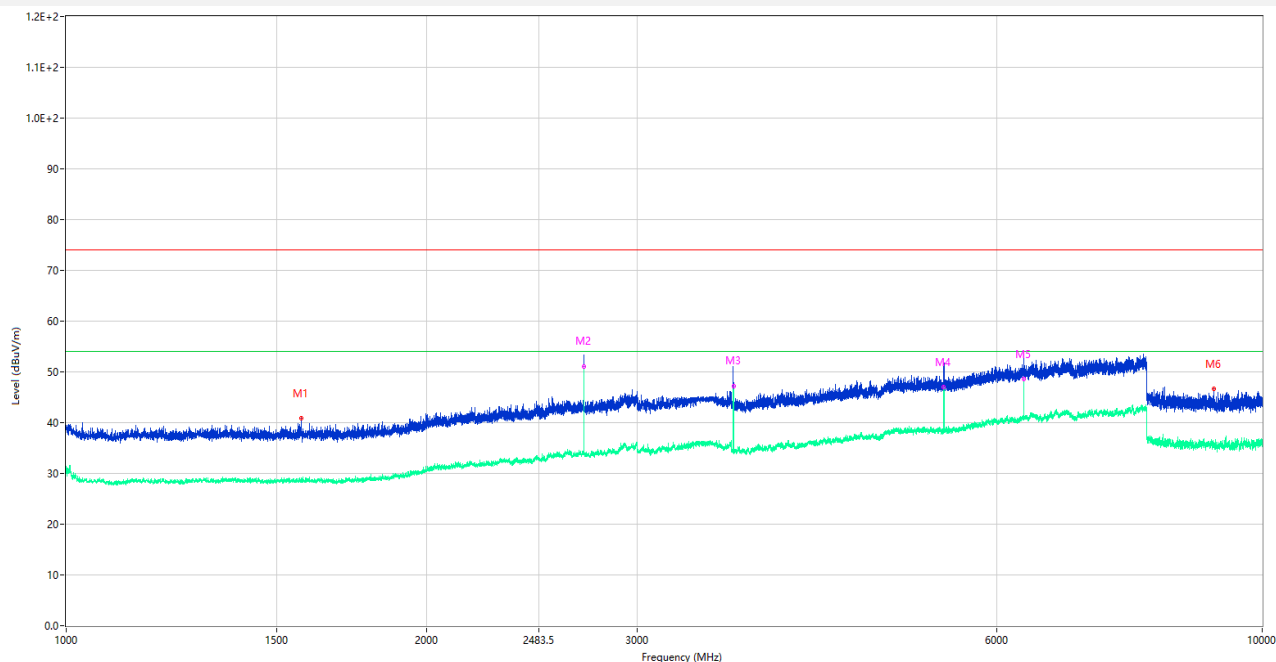
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1839.750	50.84	-15.92	74.0	23.16	Peak	44.00	150	Horizontal	Pass
1**	1839.750	49.50	-15.92	54.0	4.50	AV	44.00	150	Horizontal	Pass
2	2759.500	51.32	-10.55	74.0	22.68	Peak	212.00	150	Horizontal	Pass
2**	2759.500	47.93	-10.55	54.0	6.07	AV	212.00	150	Horizontal	Pass
3	3679.500	50.76	-5.37	74.0	23.24	Peak	100.00	150	Horizontal	Pass
3**	3679.500	48.61	-5.37	54.0	5.39	AV	100.00	150	Horizontal	Pass
4	4599.500	50.26	-3.60	74.0	23.74	Peak	0.00	150	Horizontal	Pass
4**	4599.500	46.71	-3.60	54.0	7.29	AV	0.00	150	Horizontal	Pass
5	5519.500	53.08	-2.48	74.0	20.92	Peak	358.00	150	Horizontal	Pass
5**	5519.500	50.26	-2.48	54.0	3.74	AV	358.00	150	Horizontal	Pass
6	6439.000	50.95	-0.01	74.0	23.05	Peak	40.00	150	Horizontal	Pass
6**	6439.000	43.93	-0.01	54.0	10.07	AV	40.00	150	Horizontal	Pass

LORA (125K) HIGH CHANNEL 1 GHz to 10 GHz, ANT V



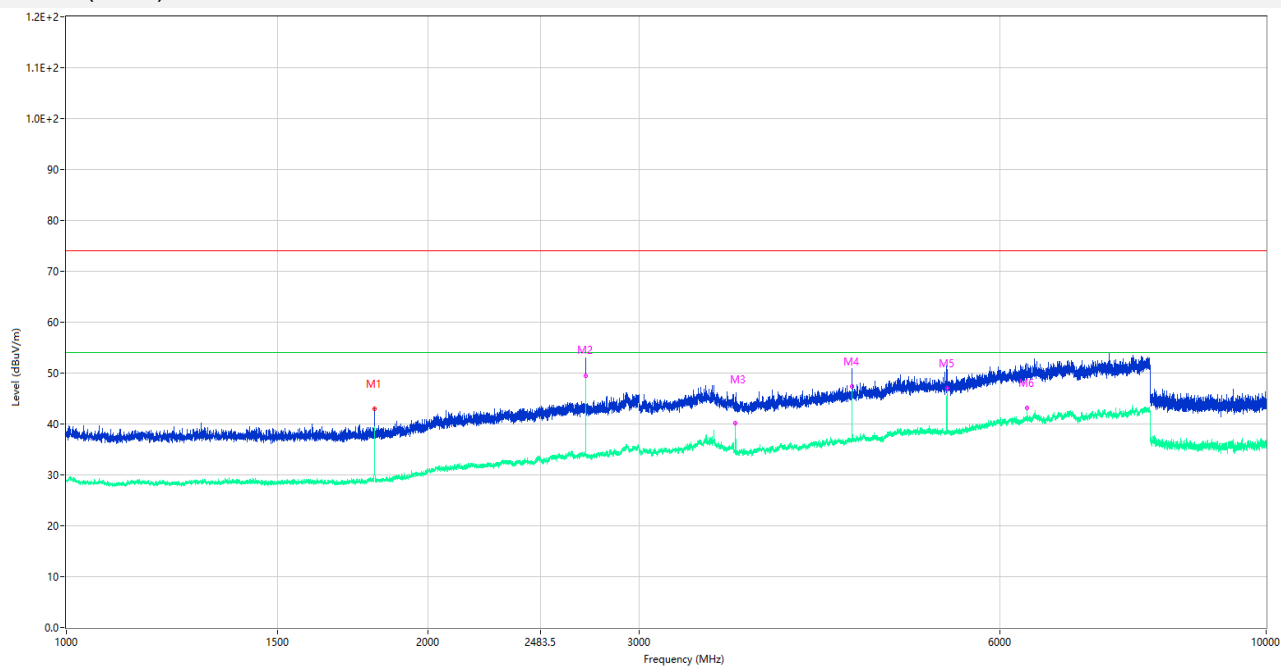
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1839.750	45.24	-15.92	74.0	28.76	Peak	358.00	150	Vertical	Pass
1**	1839.750	43.11	-15.92	54.0	10.89	AV	358.00	150	Vertical	Pass
2	2759.750	52.71	-10.53	74.0	21.29	Peak	53.00	150	Vertical	Pass
2**	2759.750	51.63	-10.53	54.0	2.37	AV	53.00	150	Vertical	Pass
3	3680.000	49.23	-5.39	74.0	24.77	Peak	251.00	150	Vertical	Pass
3**	3680.000	49.65	-5.39	54.0	4.35	AV	251.00	150	Vertical	Pass
4	4599.500	53.94	-3.60	74.0	20.06	Peak	15.00	150	Vertical	Pass
4**	4599.500	51.68	-3.60	54.0	2.32	AV	15.00	150	Vertical	Pass
5	5519.000	58.71	-2.50	74.0	15.29	Peak	22.00	150	Vertical	Pass
5**	5519.000	57.36	-2.50	54.0	0.64	AV	22.00	150	Vertical	Pass
6	6439.500	53.28	-0.03	74.0	20.72	Peak	71.00	150	Vertical	Pass
6**	6439.500	53.57	-0.03	54.0	0.43	AV	71.00	150	Vertical	Pass
7	7359.000	53.85	0.60	74.0	20.15	Peak	32.00	150	Vertical	Pass
7**	7359.000	47.99	0.60	54.0	6.01	AV	32.00	150	Vertical	Pass

LORA (500K) LOW CHANNEL 1 GHz to 10 GHz, ANT H



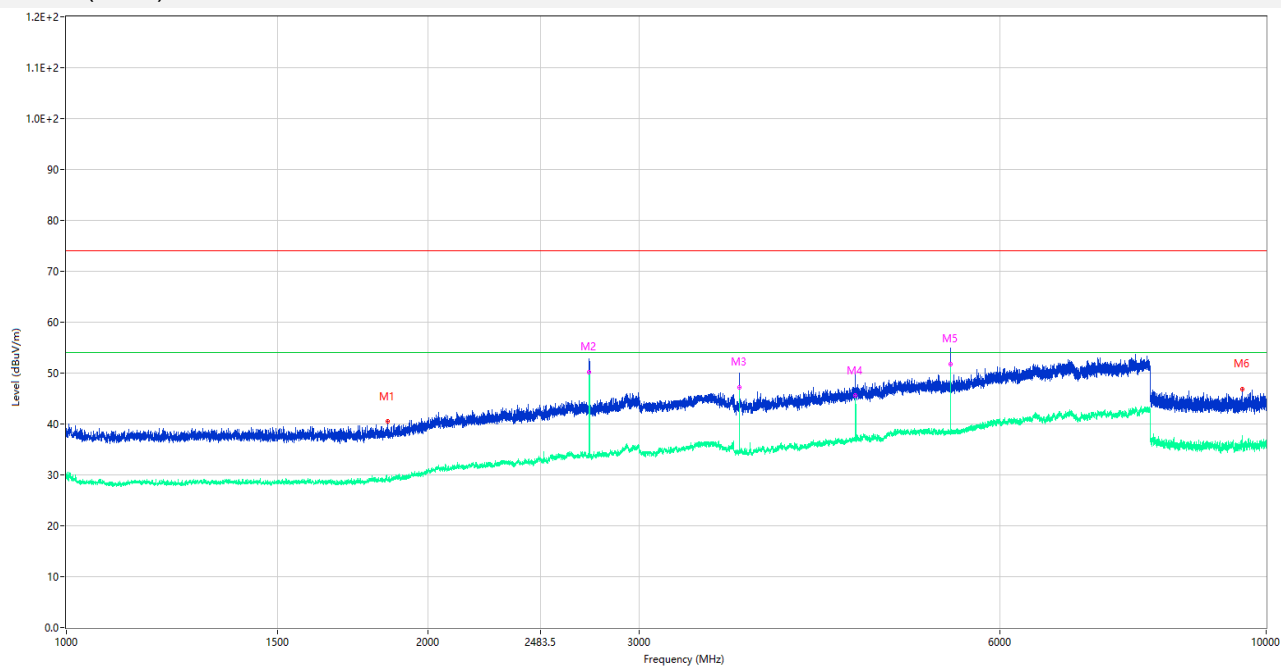
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1573.000	40.83	-16.05	74.0	33.17	Peak	349.00	150	Horizontal	Pass
1**	1573.000	28.44	-16.05	54.0	25.56	AV	349.00	150	Horizontal	Pass
2	2710.250	50.36	-10.41	74.0	23.64	Peak	203.00	150	Horizontal	Pass
2**	2710.250	51.07	-10.41	54.0	2.93	AV	203.00	150	Horizontal	Pass
3	3613.500	45.41	-5.15	74.0	28.59	Peak	310.00	150	Horizontal	Pass
3**	3613.500	47.22	-5.15	54.0	6.78	AV	310.00	150	Horizontal	Pass
4	5418.500	51.16	-2.55	74.0	22.84	Peak	7.00	150	Horizontal	Pass
4**	5418.500	46.94	-2.55	54.0	7.06	AV	7.00	150	Horizontal	Pass
5	6323.000	52.77	-0.52	74.0	21.23	Peak	173.00	150	Horizontal	Pass
5**	6323.000	48.53	-0.52	54.0	5.47	AV	173.00	150	Horizontal	Pass
6	9106.500	46.59	-4.97	74.0	27.41	Peak	0.00	150	Horizontal	Pass
6**	9106.500	35.62	-4.97	54.0	18.38	AV	0.00	150	Horizontal	Pass

LORA (500K) LOW CHANNEL 1 GHz to 10 GHz, ANT V



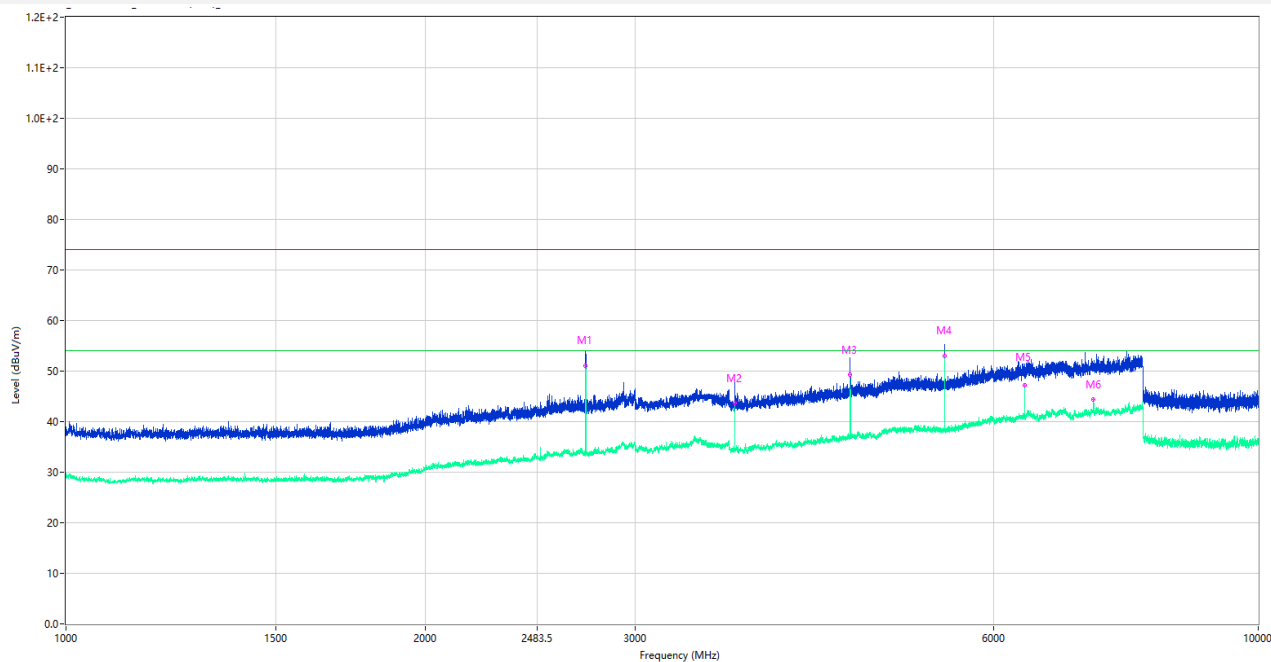
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1806.750	42.90	-15.93	74.0	31.10	Peak	15.00	150	Vertical	Pass
1**	1806.750	36.92	-15.93	54.0	17.08	AV	15.00	150	Vertical	Pass
2	2709.500	51.40	-10.39	74.0	22.60	Peak	281.00	150	Vertical	Pass
2**	2709.500	49.52	-10.39	54.0	4.48	AV	281.00	150	Vertical	Pass
3	3612.000	45.18	-5.10	74.0	28.82	Peak	358.00	150	Vertical	Pass
3**	3612.000	40.09	-5.10	54.0	13.91	AV	358.00	150	Vertical	Pass
4	4515.000	48.87	-3.00	74.0	25.13	Peak	328.00	150	Vertical	Pass
4**	4515.000	47.36	-3.00	54.0	6.64	AV	328.00	150	Vertical	Pass
5	5419.000	46.67	-2.57	74.0	27.33	Peak	1.00	150	Vertical	Pass
5**	5419.000	46.99	-2.57	54.0	7.01	AV	1.00	150	Vertical	Pass
6	6322.500	50.05	-0.52	74.0	23.95	Peak	0.00	150	Vertical	Pass
6**	6322.500	43.14	-0.52	54.0	10.86	AV	0.00	150	Vertical	Pass

LORA (500K) MIDDLE CHANNEL 1 GHz to 10 GHz, ANT H



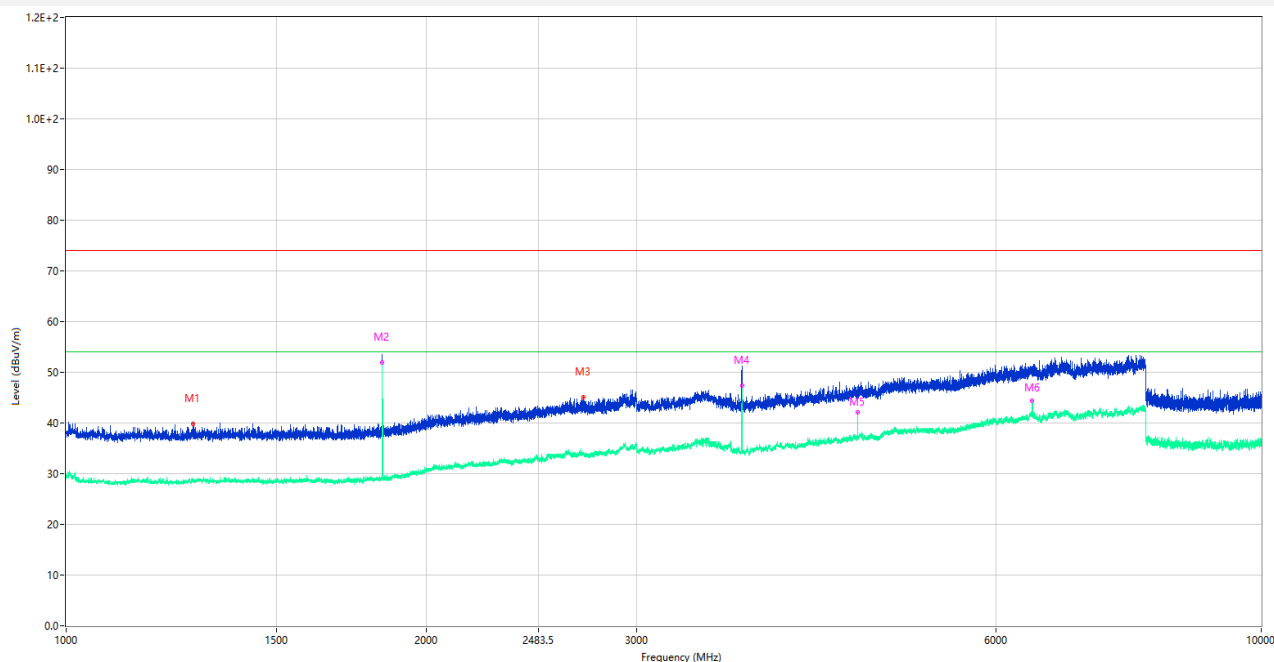
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1852.500	40.45	-15.81	74.0	33.55	Peak	31.00	150	Horizontal	Pass
1**	1852.500	28.82	-15.81	54.0	25.18	AV	31.00	150	Horizontal	Pass
2	2728.000	51.14	-10.75	74.0	22.86	Peak	195.00	150	Horizontal	Pass
2**	2728.000	50.19	-10.75	54.0	3.81	AV	195.00	150	Horizontal	Pass
3	3638.500	47.26	-5.79	74.0	26.74	Peak	179.00	150	Horizontal	Pass
3**	3638.500	47.22	-5.79	54.0	6.78	AV	179.00	150	Horizontal	Pass
4	4548.500	48.73	-3.22	74.0	25.27	Peak	328.00	150	Horizontal	Pass
4**	4548.500	45.58	-3.22	54.0	8.42	AV	328.00	150	Horizontal	Pass
5	5457.500	49.89	-2.34	74.0	24.11	Peak	78.00	150	Horizontal	Pass
5**	5457.500	51.81	-2.34	54.0	2.19	AV	78.00	150	Horizontal	Pass
6	9546.000	46.90	-2.53	74.0	27.10	Peak	360.00	150	Horizontal	Pass
6**	9546.000	36.83	-2.53	54.0	17.17	AV	360.00	150	Horizontal	Pass

LORA (500K) MIDDLE CHANNEL 1 GHz to 10 GHz, ANT V



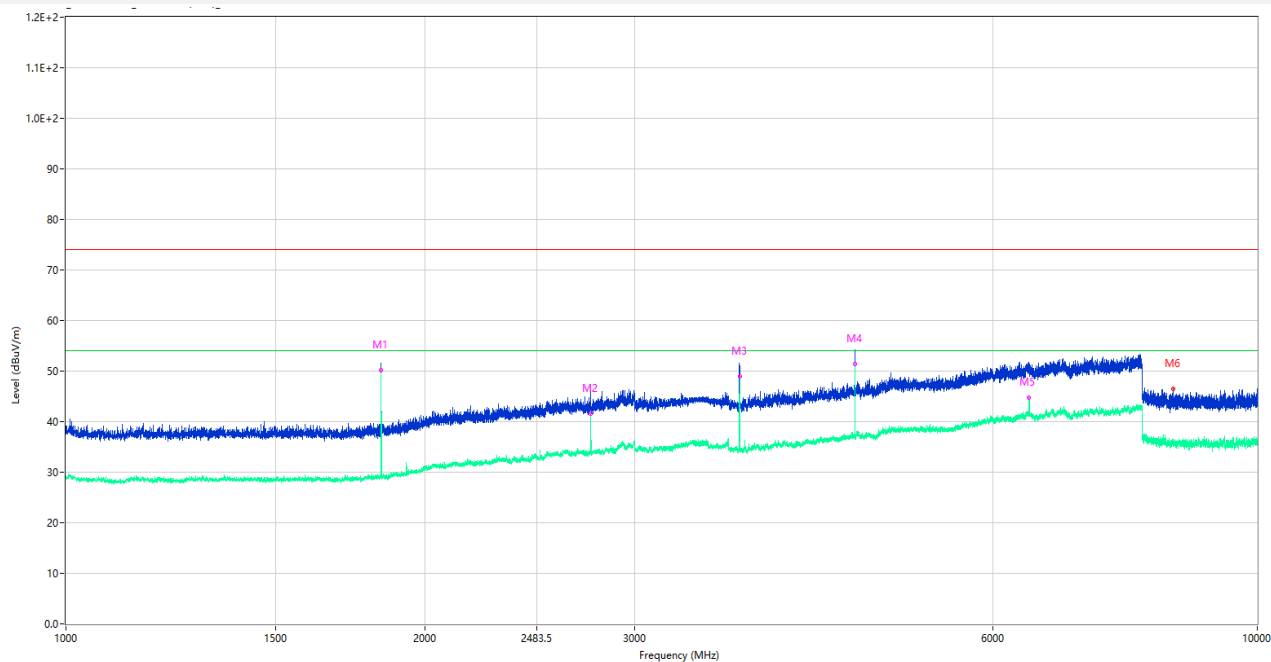
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2728.500	52.99	-10.76	74.0	21.01	Peak	110.00	150	Vertical	Pass
1**	2728.500	51.10	-10.76	54.0	2.90	AV	110.00	150	Vertical	Pass
2	3638.500	46.43	-5.79	74.0	27.57	Peak	1.00	150	Vertical	Pass
2**	3638.500	43.64	-5.79	54.0	10.36	AV	1.00	150	Vertical	Pass
3	4548.000	52.67	-3.24	74.0	21.33	Peak	356.00	150	Vertical	Pass
3**	4548.000	49.24	-3.24	54.0	4.76	AV	356.00	150	Vertical	Pass
4	5458.500	55.92	-2.32	74.0	18.08	Peak	196.00	150	Vertical	Pass
4**	5458.500	56.05	-2.32	54.0	0.95	AV	196.00	150	Vertical	Pass
5	6367.000	51.04	-0.24	74.0	22.96	Peak	360.00	150	Vertical	Pass
5**	6367.000	47.25	-0.24	54.0	6.75	AV	360.00	150	Vertical	Pass
6	7275.500	50.85	0.34	74.0	23.15	Peak	349.00	150	Vertical	Pass
6**	7275.500	43.26	0.34	54.0	10.74	AV	349.00	150	Vertical	Pass

LORA (500K) HIGH CHANNEL 1 GHz to 10 GHz, ANT H



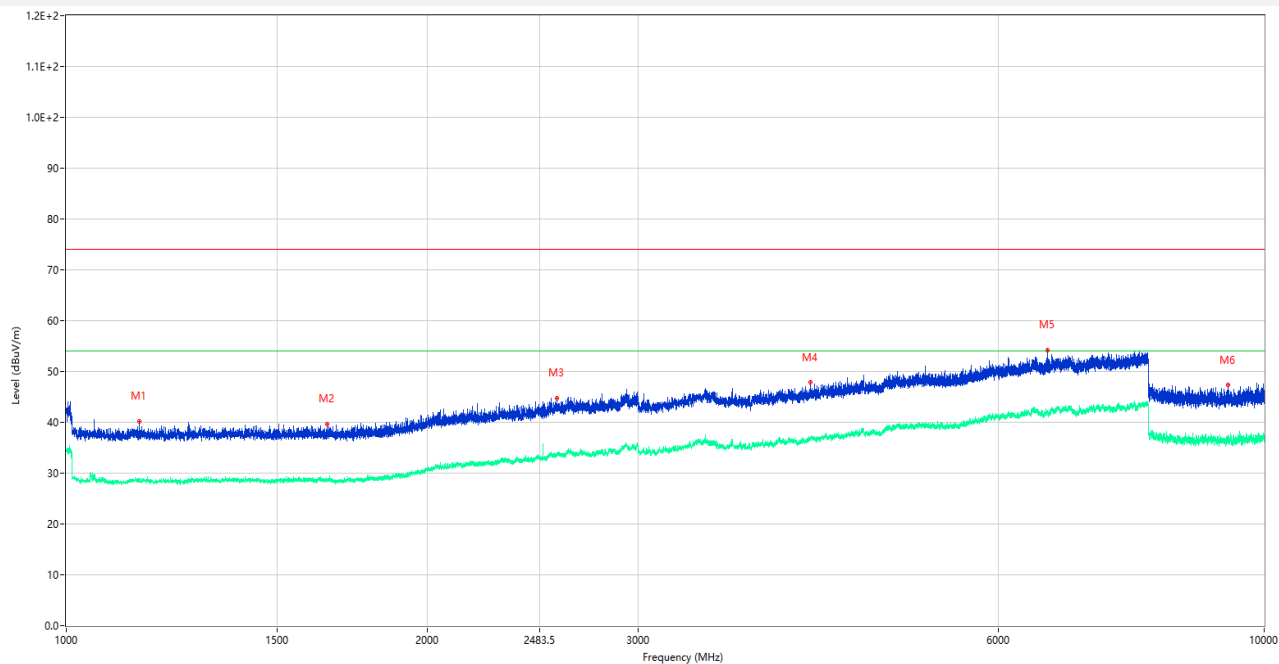
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1276.000	39.75	-15.83	74.0	34.25	Peak	314.00	150	Horizontal	Pass
1**	1276.000	28.86	-15.83	54.0	25.14	AV	314.00	150	Horizontal	Pass
2	1838.250	52.90	-15.97	74.0	21.10	Peak	107.00	150	Horizontal	Pass
2**	1838.250	51.94	-15.97	54.0	2.06	AV	107.00	150	Horizontal	Pass
3	2710.000	45.07	-10.40	74.0	28.93	Peak	50.00	150	Horizontal	Pass
3**	2710.000	33.78	-10.40	54.0	20.22	AV	50.00	150	Horizontal	Pass
4	3678.000	45.45	-5.29	74.0	28.55	Peak	2.00	150	Horizontal	Pass
4**	3678.000	47.44	-5.29	54.0	6.56	AV	2.00	150	Horizontal	Pass
5	4597.000	46.77	-3.47	74.0	27.23	Peak	271.00	150	Horizontal	Pass
5**	4597.000	42.05	-3.47	54.0	11.95	AV	271.00	150	Horizontal	Pass
6	6434.000	49.97	0.06	74.0	24.03	Peak	260.00	150	Horizontal	Pass
6**	6434.000	43.97	0.06	54.0	10.03	AV	260.00	150	Horizontal	Pass

LORA (500K) HIGH CHANNEL 1 GHz to 10 GHz, ANT V



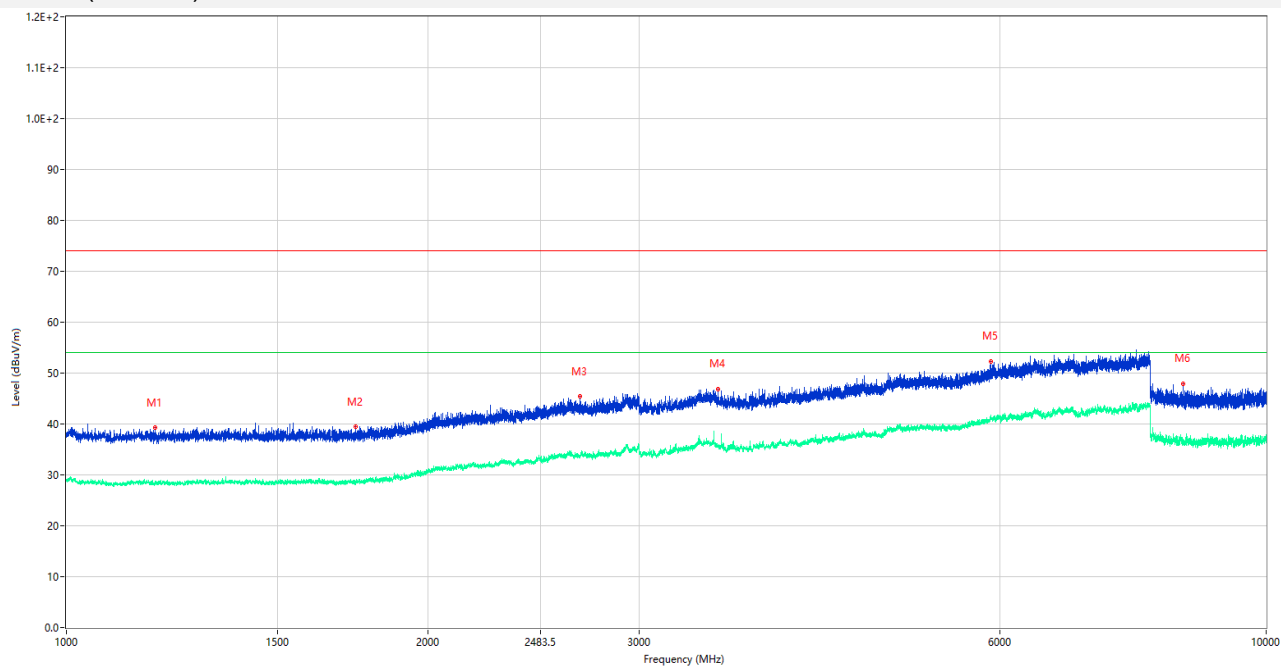
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1838.750	50.39	-15.96	74.0	23.61	Peak	144.00	150	Vertical	Pass
1**	1838.750	50.21	-15.96	54.0	3.79	AV	144.00	150	Vertical	Pass
2	2758.000	42.54	-10.59	74.0	31.46	Peak	158.00	150	Vertical	Pass
2**	2758.000	41.62	-10.59	54.0	12.38	AV	158.00	150	Vertical	Pass
3	3676.500	49.12	-5.23	74.0	24.88	Peak	272.00	150	Vertical	Pass
3**	3676.500	48.97	-5.23	54.0	5.03	AV	272.00	150	Vertical	Pass
4	4597.000	54.03	-3.47	74.0	19.97	Peak	142.00	150	Vertical	Pass
4**	4597.000	51.42	-3.47	54.0	2.58	AV	142.00	150	Vertical	Pass
5	6435.000	50.70	0.07	74.0	23.30	Peak	12.00	150	Vertical	Pass
5**	6435.000	44.72	0.07	54.0	9.28	AV	12.00	150	Vertical	Pass
6	8497.500	46.53	-4.57	74.0	27.47	Peak	349.00	150	Vertical	Pass
6**	8497.500	36.06	-4.57	54.0	17.94	AV	349.00	150	Vertical	Pass

LORA (FSK-HS) LOW CHANNEL 1 GHz to 10 GHz, ANT H



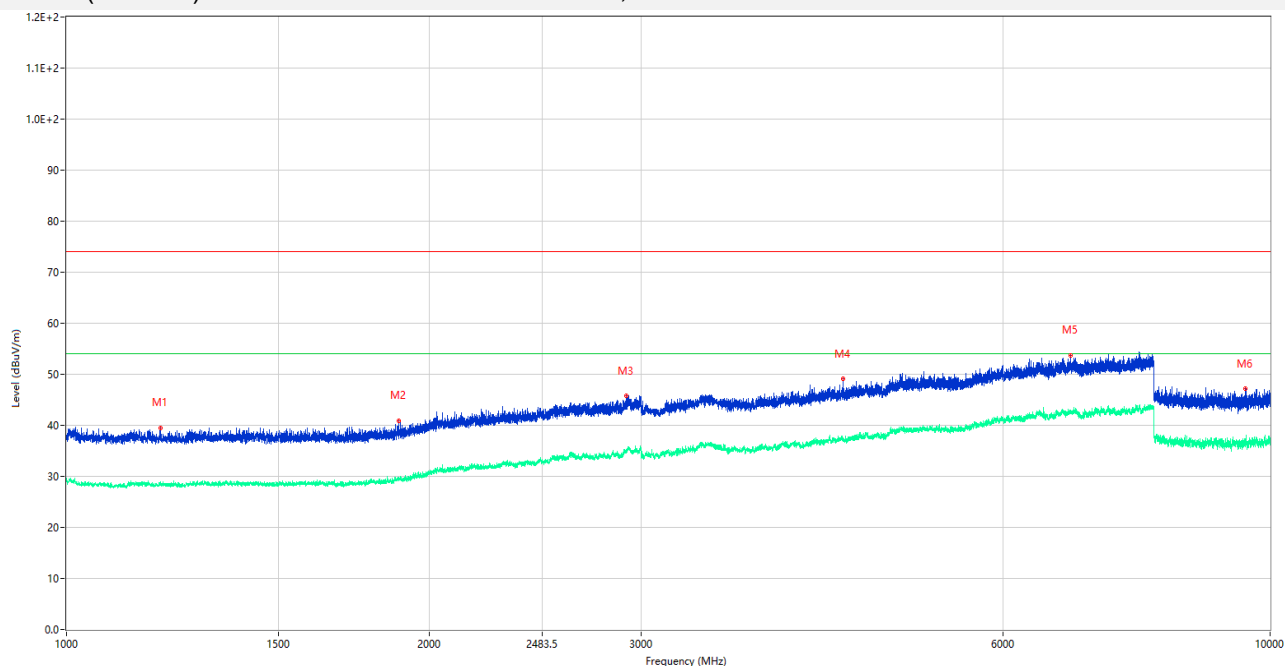
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1151.000	40.18	-15.65	74.0	33.82	Peak	339.00	150	Horizontal	Pass
1**	1151.000	28.68	-15.65	54.0	25.32	AV	339.00	150	Horizontal	Pass
2	1650.250	39.68	-16.27	74.0	34.32	Peak	81.00	150	Horizontal	Pass
2**	1650.250	28.66	-16.27	54.0	25.34	AV	81.00	150	Horizontal	Pass
3	2568.000	44.82	-11.05	74.0	29.18	Peak	0.00	150	Horizontal	Pass
3**	2568.000	33.66	-11.05	54.0	20.34	AV	0.00	150	Horizontal	Pass
4	4180.500	47.86	-4.02	74.0	26.14	Peak	304.00	150	Horizontal	Pass
4**	4180.500	36.62	-4.02	54.0	17.38	AV	304.00	150	Horizontal	Pass
5	6590.000	54.28	-0.17	74.0	19.72	Peak	23.00	150	Horizontal	Pass
5**	6590.000	41.99	-0.17	54.0	12.01	AV	23.00	150	Horizontal	Pass
6	9331.500	47.28	-4.99	74.0	26.72	Peak	295.00	150	Horizontal	Pass
6**	9331.500	36.53	-4.99	54.0	17.47	AV	295.00	150	Horizontal	Pass

LORA (FSK-HS) LOW CHANNEL 1 GHz to 10 GHz, ANT V



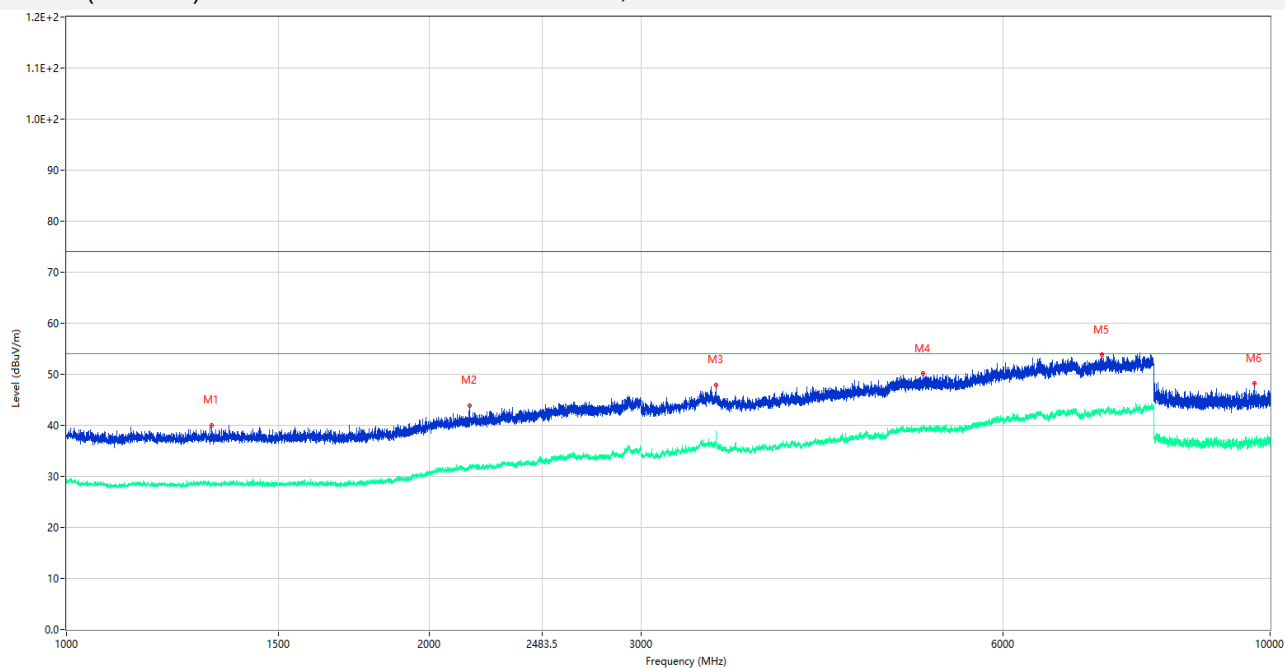
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1186.250	39.31	-15.88	74.0	34.69	Peak	360.00	150	Vertical	Pass
1**	1186.250	28.32	-15.88	54.0	25.68	AV	360.00	150	Vertical	Pass
2	1743.250	39.44	-16.12	74.0	34.56	Peak	201.00	150	Vertical	Pass
2**	1743.250	28.45	-16.12	54.0	25.55	AV	201.00	150	Vertical	Pass
3	2678.500	45.52	-10.57	74.0	28.48	Peak	68.00	150	Vertical	Pass
3**	2678.500	33.45	-10.57	54.0	20.55	AV	68.00	150	Vertical	Pass
4	3493.500	46.89	-5.81	74.0	27.11	Peak	192.00	150	Vertical	Pass
4**	3493.500	35.87	-5.81	54.0	18.13	AV	192.00	150	Vertical	Pass
5	5896.500	52.30	-0.38	74.0	21.70	Peak	173.00	150	Vertical	Pass
5**	5896.500	40.95	-0.38	54.0	13.05	AV	173.00	150	Vertical	Pass
6	8526.000	47.91	-4.86	74.0	26.09	Peak	360.00	150	Vertical	Pass
6**	8526.000	37.65	-4.86	54.0	16.35	AV	360.00	150	Vertical	Pass

LORA (FSK-HS) HIGH CHANNEL 1 GHz to 10 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.250	39.54	-15.72	74.0	34.46	Peak	191.00	150	Horizontal	Pass
1**	1196.250	28.93	-15.72	54.0	25.07	AV	191.00	150	Horizontal	Pass
2	1886.750	40.85	-15.32	74.0	33.15	Peak	152.00	150	Horizontal	Pass
2**	1886.750	29.24	-15.32	54.0	24.76	AV	152.00	150	Horizontal	Pass
3	2916.000	45.75	-8.92	74.0	28.25	Peak	51.00	150	Horizontal	Pass
3**	2916.000	35.10	-8.92	54.0	18.90	AV	51.00	150	Horizontal	Pass
4	4417.000	49.13	-2.85	74.0	24.87	Peak	166.00	150	Horizontal	Pass
4**	4417.000	37.21	-2.85	54.0	16.79	AV	166.00	150	Horizontal	Pass
5	6825.000	53.65	0.62	74.0	20.35	Peak	108.00	150	Horizontal	Pass
5**	6825.000	42.70	0.62	54.0	11.30	AV	108.00	150	Horizontal	Pass
6	9532.500	47.16	-3.26	74.0	26.84	Peak	292.00	150	Horizontal	Pass
6**	9532.500	36.43	-3.26	54.0	17.57	AV	292.00	150	Horizontal	Pass

LORA (FSK-HS) HIGH CHANNEL 1 GHz to 10 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1319.250	40.07	-15.85	74.0	33.93	Peak	0.00	150	Vertical	Pass
1**	1319.250	28.17	-15.85	54.0	25.83	AV	0.00	150	Vertical	Pass
2	2162.500	43.94	-13.26	74.0	30.06	Peak	291.00	150	Vertical	Pass
2**	2162.500	32.25	-13.26	54.0	21.75	AV	291.00	150	Vertical	Pass
3	3465.000	47.90	-5.10	74.0	26.10	Peak	19.00	150	Vertical	Pass
3**	3465.000	38.36	-5.10	54.0	15.64	AV	19.00	150	Vertical	Pass
4	5150.000	50.09	-2.07	74.0	23.91	Peak	175.00	150	Vertical	Pass
4**	5150.000	39.44	-2.07	54.0	14.56	AV	175.00	150	Vertical	Pass
5	7245.000	53.84	0.91	74.0	20.16	Peak	47.00	150	Vertical	Pass
5**	7245.000	43.12	0.91	54.0	10.88	AV	47.00	150	Vertical	Pass
6	9705.000	48.16	-3.47	74.0	25.84	Peak	0.00	150	Vertical	Pass
6**	9705.000	36.76	-3.47	54.0	17.24	AV	0.00	150	Vertical	Pass

A.7 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.

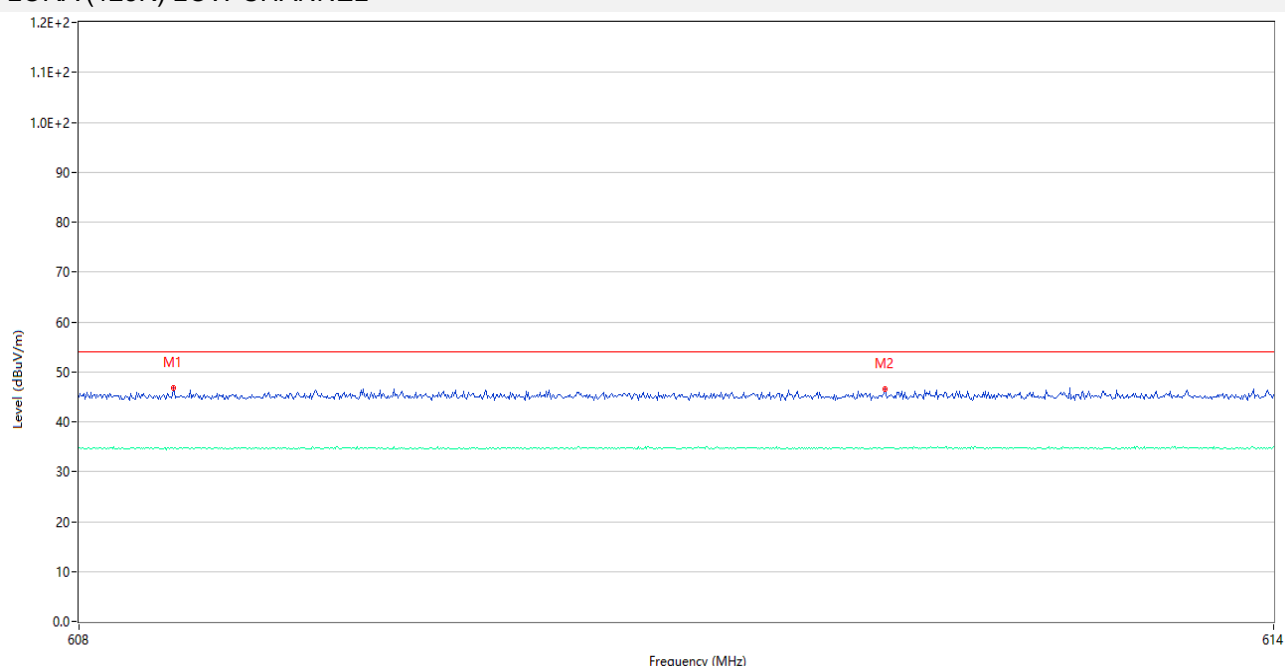
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2020, 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.

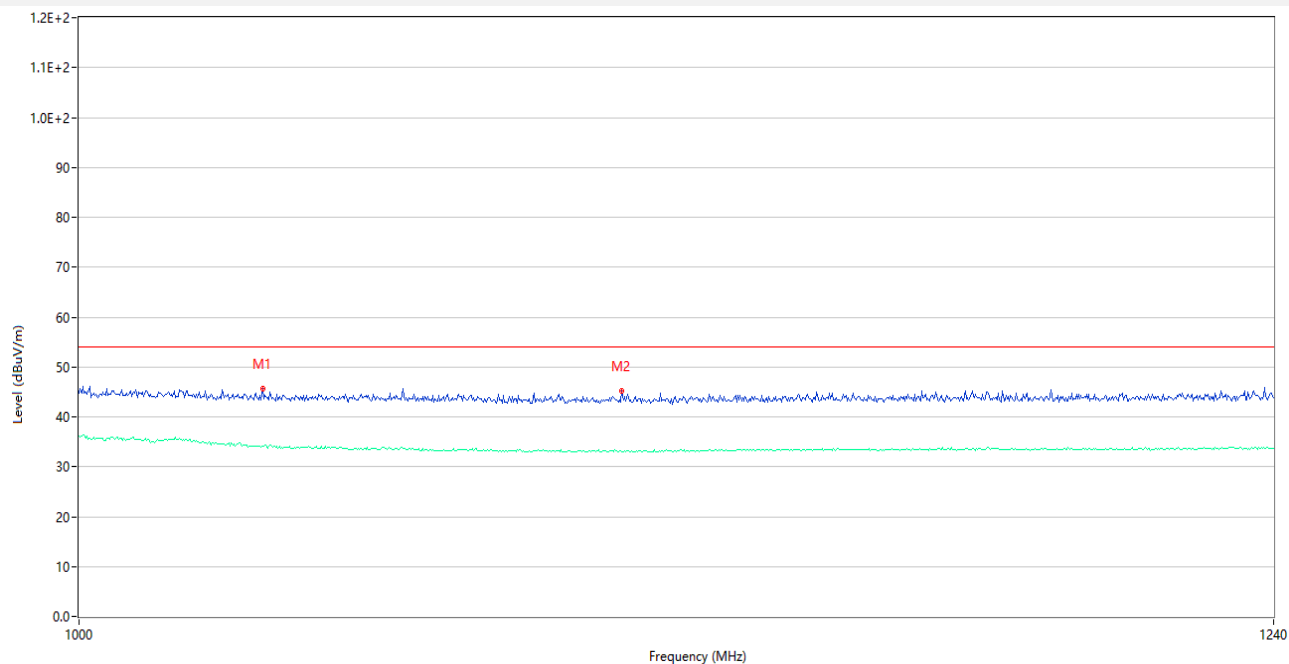
Test Data and Plot

LORA (125K) LOW CHANNEL



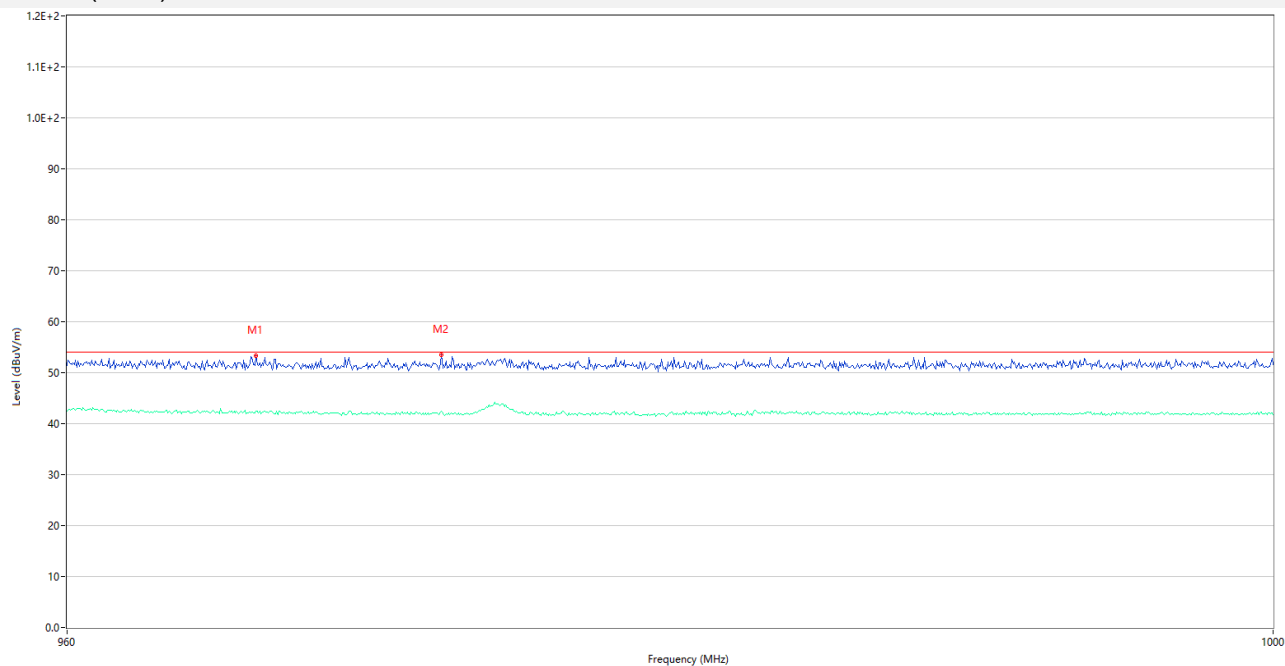
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	608.474	46.88	-4.72	54.0	7.12	Peak	331.00	150	Vertical	Pass
1**	608.474	34.68	-4.72	--	-34.68	AV	331.00	150	Vertical	N/A
2	612.044	46.50	-4.69	54.0	7.50	Peak	113.00	150	Vertical	Pass
2**	612.044	34.74	-4.69	--	-34.74	AV	113.00	150	Vertical	N/A

LORA (125K) HIGH CHANNEL



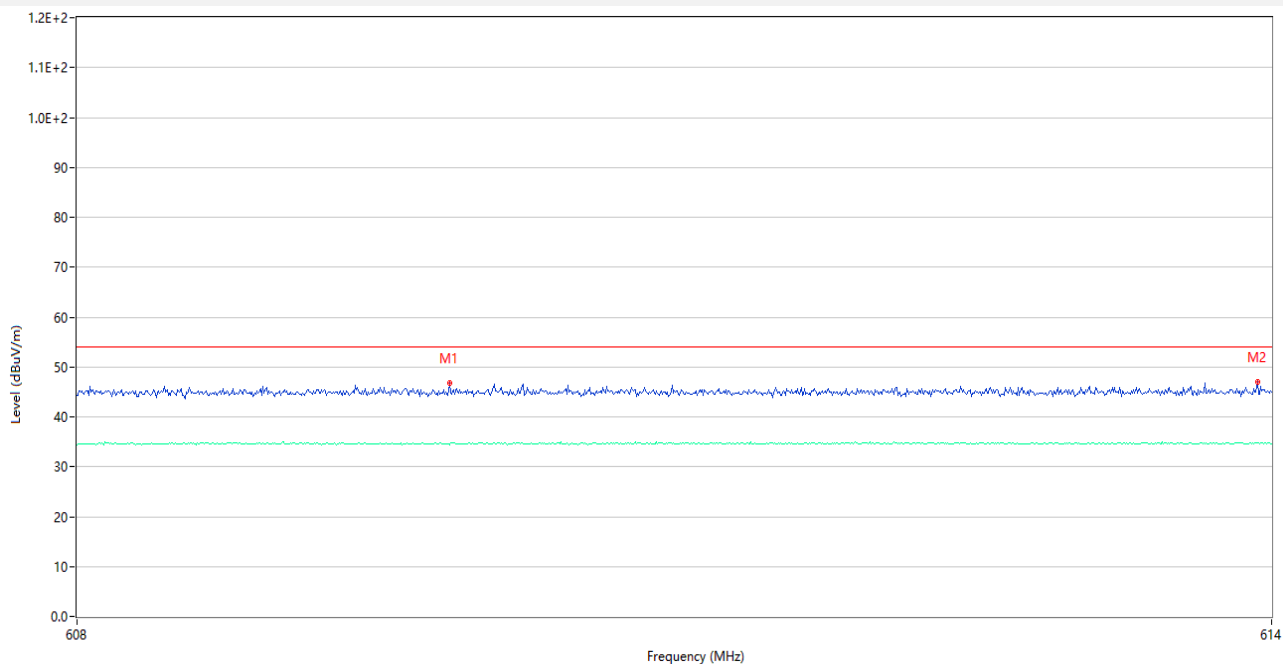
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.600	45.66	-10.48	54.0	8.34	Peak	170.00	150	Horizontal	Pass
1**	1033.600	34.21	-10.48	--	-34.21	AV	170.00	150	Horizontal	N/A
2	1102.720	45.29	-10.88	54.0	8.71	Peak	124.00	150	Horizontal	Pass
2**	1102.720	33.08	-10.88	--	-33.08	AV	124.00	150	Horizontal	N/A

LORA (125K) HIGH CHANNEL



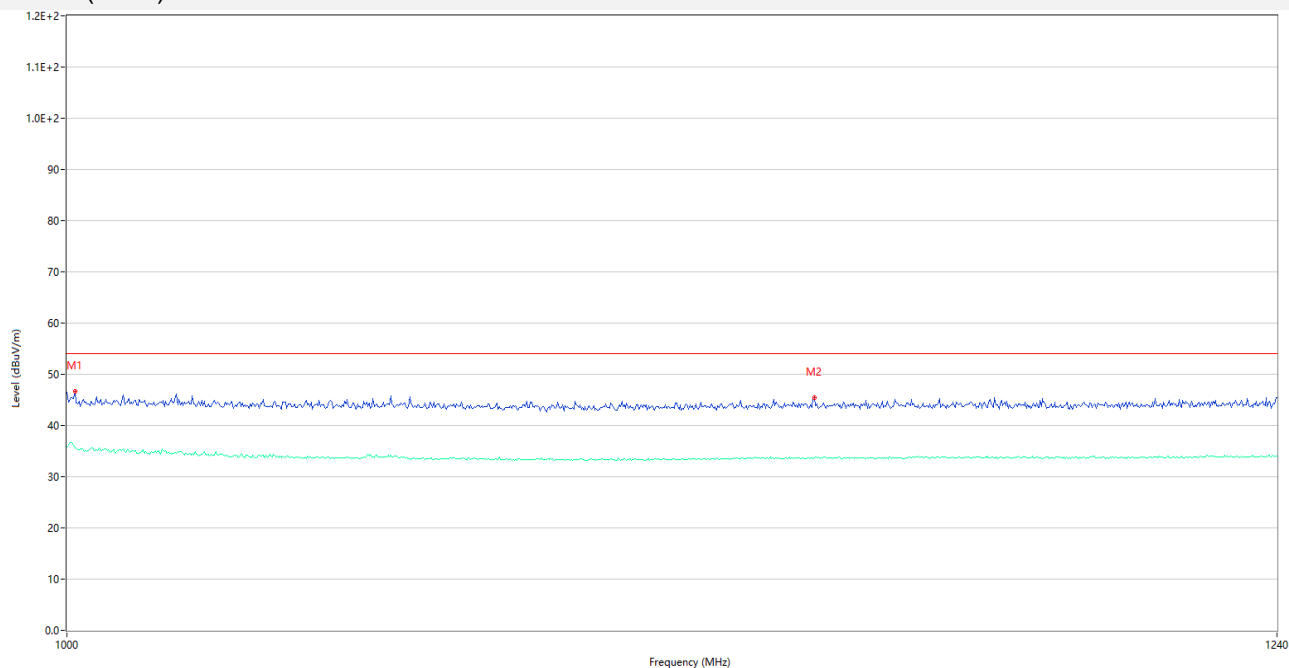
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	966.160	53.33	1.32	54.0	0.67	Peak	12.00	150	Horizontal	Pass
1**	966.160	42.49	1.32	--	-42.49	AV	12.00	150	Horizontal	N/A
2	972.240	53.54	1.44	54.0	0.46	Peak	313.00	150	Horizontal	Pass
2**	972.240	42.40	1.44	--	-42.40	AV	313.00	150	Horizontal	N/A

LORA (500K) LOW CHANNE



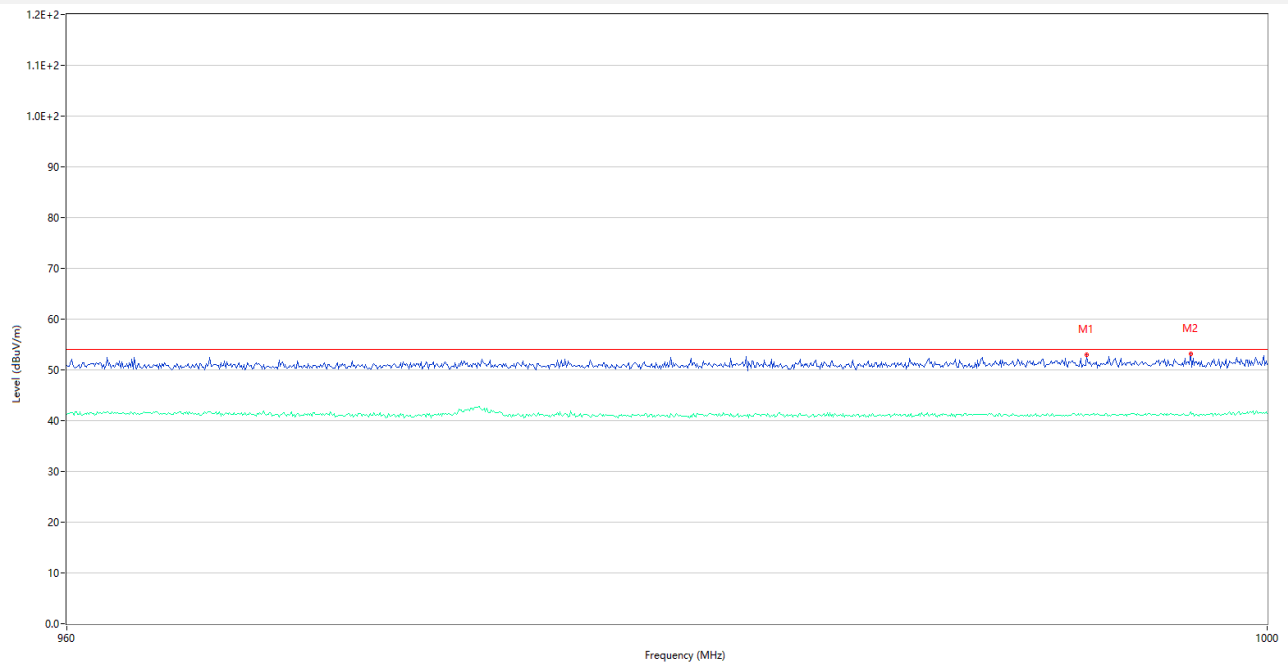
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	609.866	46.80	-4.74	54.0	7.20	Peak	333.00	150	Vertical	Pass
1**	609.866	34.43	-4.74	--	-34.43	AV	333.00	150	Vertical	N/A
2	613.928	46.92	-4.69	54.0	7.08	Peak	164.00	150	Vertical	Pass
2**	613.928	34.87	-4.69	--	-34.87	AV	164.00	150	Vertical	N/A

LORA (500K) HIGH CHANNEL



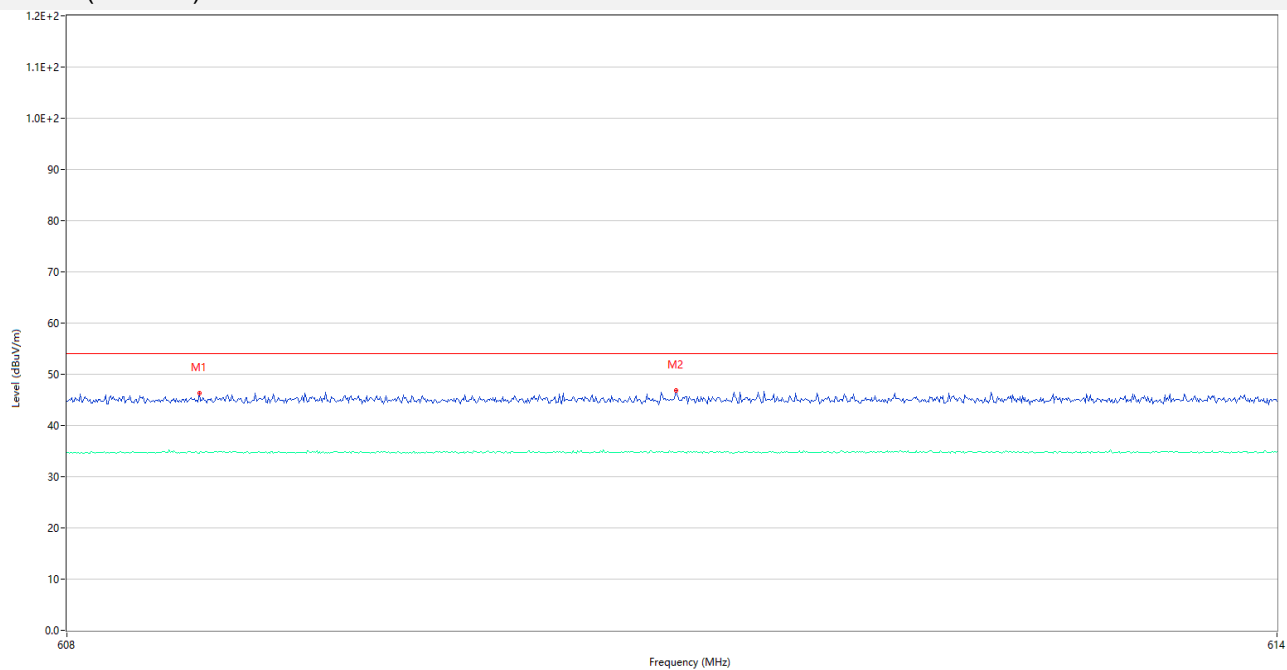
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1001.440	46.74	-9.59	54.0	7.26	Peak	203.00	150	Horizontal	Pass
1**	1001.440	35.54	-9.59	--	-35.54	AV	203.00	150	Horizontal	N/A
2	1142.080	45.45	-10.80	54.0	8.55	Peak	43.00	150	Horizontal	Pass
2**	1142.080	33.74	-10.80	--	-33.74	AV	43.00	150	Horizontal	N/A

LORA (500K) HIGH CHANNEL



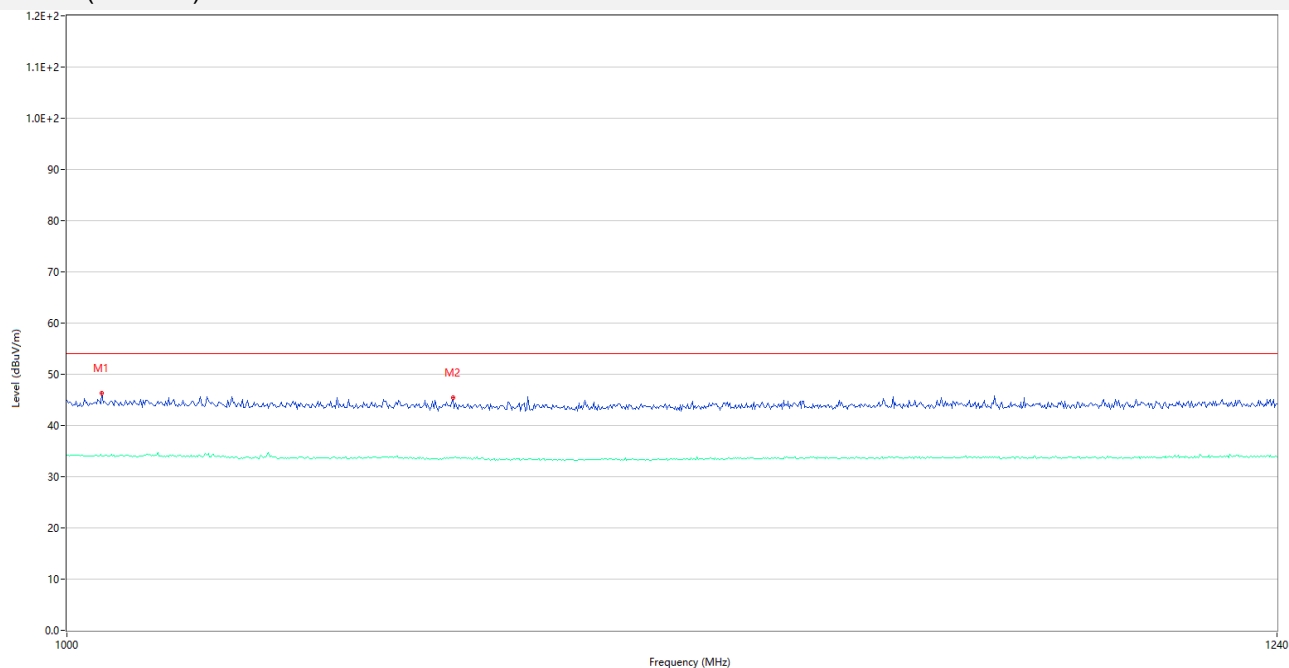
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	993.880	53.06	1.81	54.0	0.94	Peak	319.00	150	Vertical	Pass
1**	993.880	41.22	1.81	--	-41.22	AV	319.00	150	Vertical	N/A
2	997.400	53.21	1.88	54.0	0.79	Peak	0.00	150	Vertical	Pass
2**	997.400	41.68	1.88	--	-41.68	AV	0.00	150	Vertical	N/A

LORA (FSK-HS) LOW CHANNEL



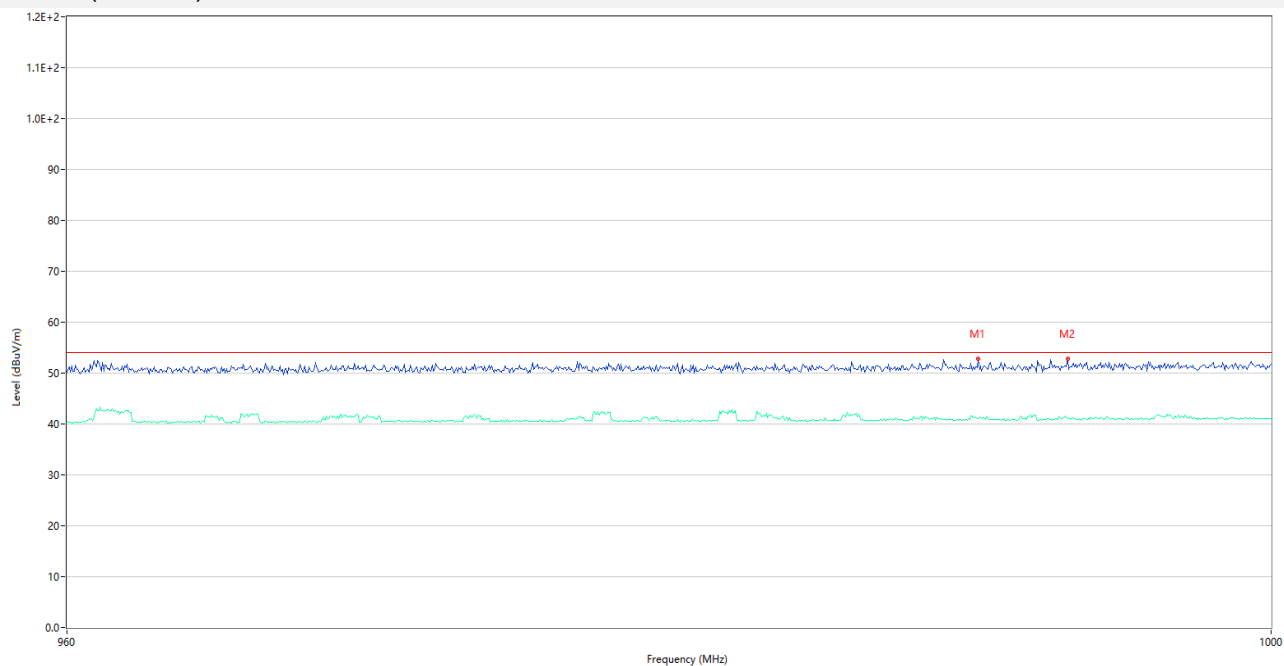
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	608.654	46.26	-4.70	54.0	7.74	Peak	352.00	150	Vertical	Pass
1**	608.654	34.63	-4.70	--	-34.63	AV	352.00	150	Vertical	N/A
2	611.012	46.89	-4.71	54.0	7.11	Peak	331.00	150	Vertical	Pass
2**	611.012	34.73	-4.71	--	-34.73	AV	331.00	150	Vertical	N/A

LORA (FSK-HS) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1006.240	46.24	-9.73	54.0	7.76	Peak	41.00	150	Vertical	Pass
1**	1006.240	34.05	-9.73	--	-34.05	AV	41.00	150	Vertical	N/A
2	1071.040	45.51	-10.43	54.0	8.49	Peak	123.00	150	Vertical	Pass
2**	1071.040	33.77	-10.43	--	-33.77	AV	123.00	150	Vertical	N/A

LORA (FSK-HS) HIGH CHANNE



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	990.120	52.73	1.67	54.0	1.27	Peak	52.00	150	Horizontal	Pass
1**	990.120	41.02	1.67	--	-41.02	AV	52.00	150	Horizontal	N/A
2	993.120	52.77	1.75	54.0	1.23	Peak	87.00	150	Horizontal	Pass
2**	993.120	41.13	1.75	--	-41.13	AV	87.00	150	Horizontal	N/A

A.8 Power Spectral Density (PSD)

Note: The Power Spectral Density (PSD), please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.8.

A.9 Number of Hopping Frequency

Note: The Number of Hopping Frequency, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.9.

A.10 Hopping Frequency Separation

Note: The Hopping Frequency Separation, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.10.

A.11 Average Time of Occupancy

Note: The Average Time of Occupancy, please refer to the Report No. Ti-CC26030001-602 which issued by Shanghai Tejet Communications Technology Co., Ltd. on Apr. 23, 2026. ANNEX A.11.

ANNEX B TEST SETUP PHOTOS

Note¹: Radiated TEST SETUP PHOTO, please refer the document “Ti-CC26040210-AR-1.PDF”.

Note²: Conducted TEST SETUP PHOTO, please refer to the Report No. Ti-CC26030001-AR-1 TEST SETUP PHOTOS.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26040210-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26040210-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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-END OF REPORT-