

TEST REPORT

Applicant: Convergence Systems Limited
Address: 11/F, Tower 1, Tern Centre, 237 Queen's Road
Central, Hong Kong
Equipment Type: RFID Reader
Model Name: CS203XL-2
Brand Name: CSL
FCC ID: UB4CS203XL
ISED Number: 8073A-CS203XL2CA
Test Standard: 47 CFR Part 15 Subpart C
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Jan. 20, 2025
Test Date: Feb. 08, 2025 - Mar. 20, 2025
Date of Issue: Mar. 21, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Yu Yingyuan**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)Yu Ying YuanYe HongjiSunny Zou

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 18, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Mar. 21, 2025</u>	<u>Modify the Test Standard RSS-247 Issue 2 to RSS-247 Issue 3 on cover page.</u>
		<u>Modify the Average Time of Occupancy in Appendix A.5.</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	Factory Information	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Test Verdict	8
4	GENERAL TEST CONFIGURATIONS	9
4.1	Test Environments	9
4.2	Test Equipment List	9
4.3	Measurement Uncertainty	10
4.4	Description of Test Setup	10
4.5	Measurement Results Explanation Example	13
5	TEST ITEMS	14
5.1	Antenna Requirements	14
5.2	Number of Hopping Frequencies	15
5.3	Peak Output Power	16

5.4	Occupied Bandwidth.....	17
5.5	Carrier Frequency Separation.....	18
5.6	Time of Occupancy (Dwell time)	19
5.7	Conducted Spurious Emission & Authorized-band band-edge.....	20
5.8	Conducted Emission.....	21
5.9	Radiated Spurious Emission.....	22
5.10	Band Edge (Restricted-band band-edge).....	24
ANNEX A	TEST RESULT	25
A.1	Number of Hopping Frequency.....	25
A.2	Peak Output Power	26
A.3	20 dB and 99% bandwidth	28
A.4	Hopping Frequency Separation	30
A.5	Average Time of Occupancy.....	31
A.6	Conducted Spurious Emissions & Authorized-band band-edge	32
A.7	Conducted Emissions	36
A.8	Radiated Spurious Emission.....	38
A.9	Band Edge (Restricted-band band-edge).....	62
ANNEX B	TEST SETUP PHOTOS	75
ANNEX C	EUT EXTERNAL PHOTOS.....	75
ANNEX D	EUT INTERNAL PHOTOS.....	75

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Convergence Systems Limited
Address	11/F, Tower 1, Tern Centre, 237 Queen's Road Central, Hong Kong

2.2 Manufacturer Information

Manufacturer	Convergence Systems Limited
Address	11/F, Tower 1, Tern Centre, 237 Queen's Road Central, Hong Kong

2.3 Factory Information

Factory	Seveco Global Limited
Address	Building 1, No. 2, jianxiang Street, Chashan Town, Dongguan City, Guangdong Province,P.R. China

2.4 General Description for Equipment under Test (EUT)

EUT Name	RFID Reader
Model Name Under Test	CS203XL-2
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	4.14.78
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	RFID
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	Frequency hopping system
Modulation Type	PR-ASK
Frequency Range	The frequency range used is 902 MHz to 928 MHz.
Number of channel	50
Tested Channel	1 (902.75 MHz), 26 (915.25 MHz), 50 (927.25 MHz)
Antenna Type	Patch Antenna
Antenna Gain	6.79 dBi
Antenna System(MIMO Smart Antenna)	N/A

All channel was listed on the following table:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
1	902.75	17	910.75	33	918.75	49	926.75
2	903.25	18	911.25	34	919.25	50	927.25
3	903.75	19	911.75	35	919.75	--	--
4	904.25	20	912.25	36	920.25	--	--
5	904.75	21	912.75	37	920.75	--	--
6	905.25	22	913.25	38	921.25	--	--
7	905.75	23	913.75	39	921.75	--	--
8	906.25	24	914.25	40	922.25	--	--
9	906.75	25	914.75	41	922.75	--	--
10	907.25	26	915.25	42	923.25	--	--
11	907.75	27	915.75	43	923.75	--	--
12	908.25	28	916.25	44	924.25	--	--
13	908.75	29	916.75	45	924.75	--	--
14	909.25	30	917.25	46	925.25	--	--
15	909.75	31	917.75	47	925.75	--	--
16	910.25	32	918.25	48	926.25	--	--

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	KDB Publication 558074 D01v05r02	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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
4	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
5	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	ISED Part No.	Modulation Technology	Channel	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 5.4 (d)	N/A	N/A	--	Pass ^{Note}
2	Number of Hopping Frequencies	15.247(a)	RSS-247, 5.1 (c)	Frequency hopping system	Hopping Mode	ANNEX A.1	Pass
3	Peak Output Power	15.247(b)	RSS-247, 5.4 (a)	Frequency hopping system	Low/Middle/High	ANNEX A.2	Pass
4	Occupied Bandwidth	15.247(a)	RSS-247, 5.1 (a)	Frequency hopping system	Low/Middle/High	ANNEX A.3	Pass
5	Carrier Frequency Separation	15.247(a)	RSS-247, 5.1 (b)	Frequency hopping system	Hopping Mode	ANNEX A.4	Pass
6	Time of Occupancy (Dwell time)	15.247(a)	RSS-247, 5.1 (c)	Frequency hopping system	Hopping Mode	ANNEX A.5	Pass
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	RSS-247, 5.5	Frequency hopping system	Low/Middle/High, Hopping Mode	ANNEX A.6	Pass
8	Conducted Emission	15.207	RSS-GEN, 8.8	Frequency hopping system	Low/Middle/High	ANNEX A.7	Pass
9	Radiated Spurious Emission	15.209 15.247(d)	RSS-247, 5.5	Frequency hopping system	Low/Middle/High, Hopping Mode	ANNEX A.8	Pass
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	RSS-247, 5.5	Frequency hopping system	Low/Middle/High, Hopping Mode	ANNEX A.9	Pass

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 61%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.3℃ to +25.1℃
Working Voltage of the EUT	NV (Normal Voltage)	12V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2024.12.16	2025.12.15
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2024.05.08	2025.05.07
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2024.05.08	2025.05.07
Signaling Unit	ROHDE&SCHWARZ	CMW270	100607	2024.05.08	2025.05.07
Temperature Chamber	AHK	NTH64-40A	1310	2024.11.28	2025.11.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	00884	2025.02.19	2026.02.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	ZT30-1000M	18110850	2024.08.01	2025.07.31
Amplifier	COM-MV	LSCX_LNA 1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31

4.3 Measurement Uncertainty

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

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

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
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%

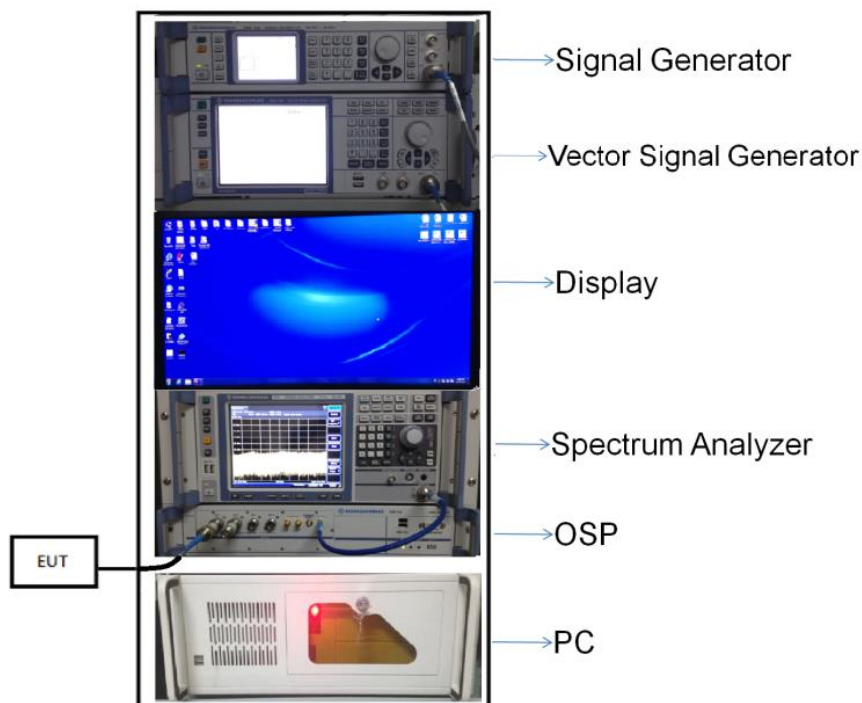
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

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

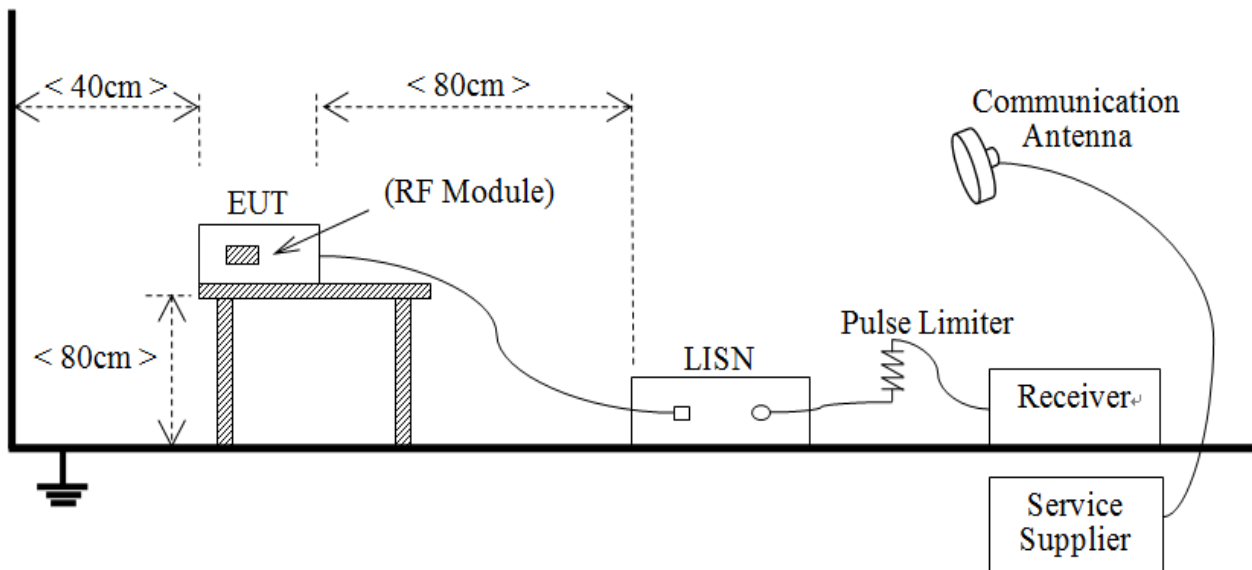
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



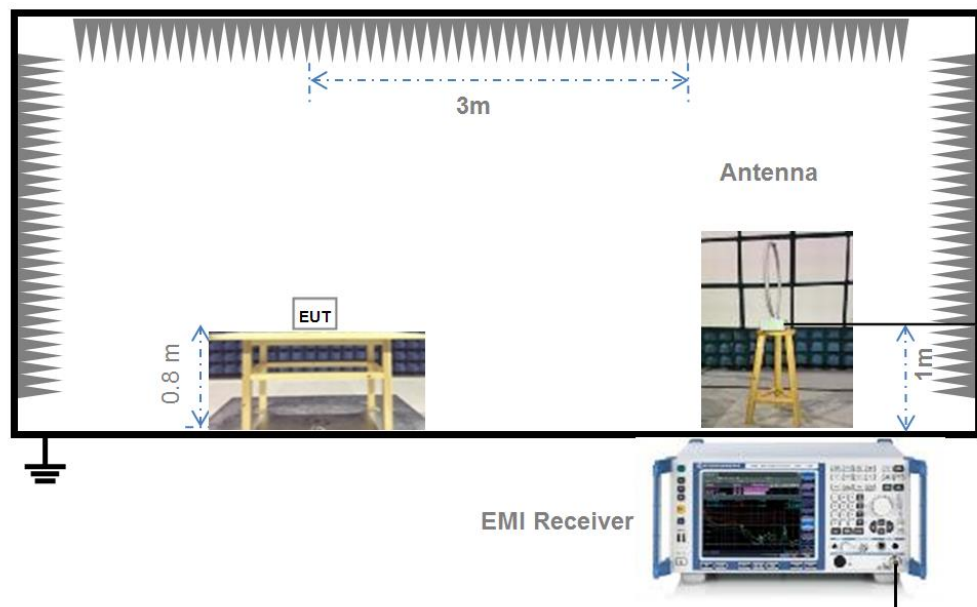
(Diagram 1)

4.4.2 For AC Power Supply Port Test



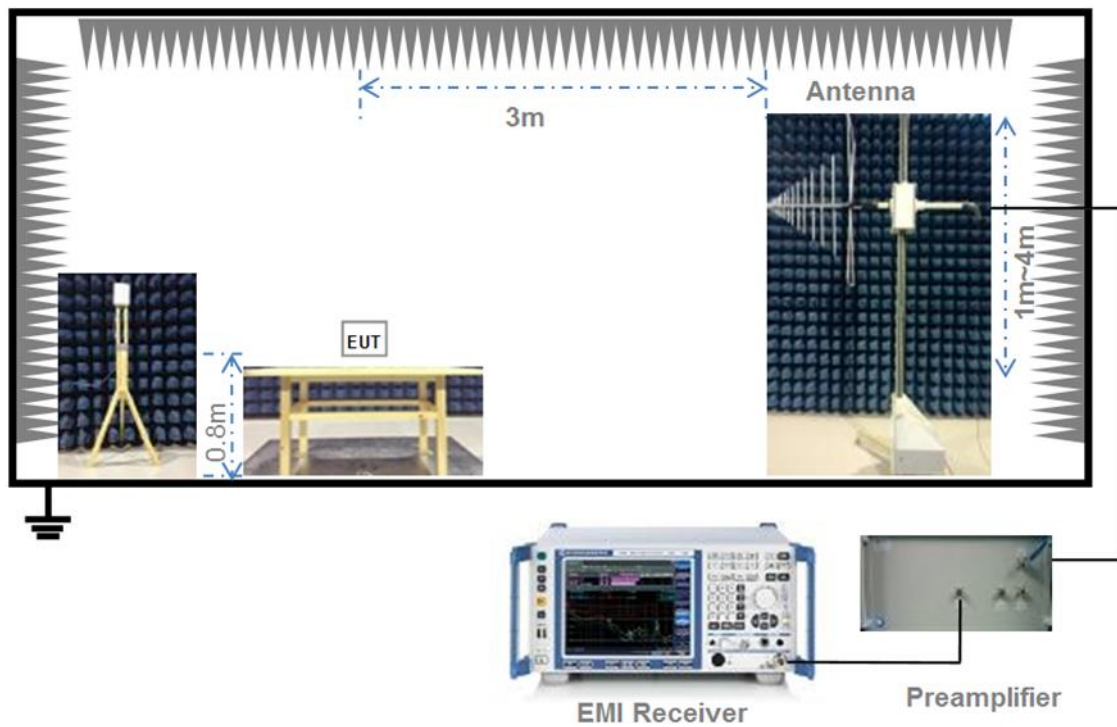
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



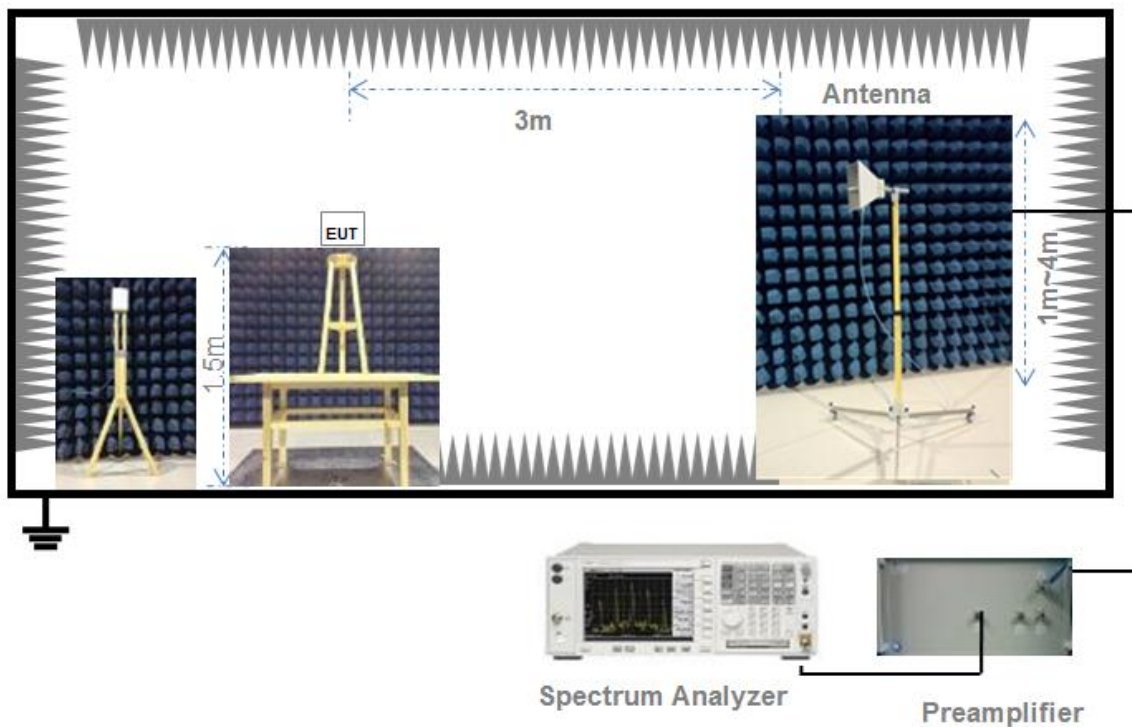
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203; RSS-247, 5.4 (d)

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 greater than 6dBi. Therefore, the maximum peak output power limit need to be adjusted accordingly.

5.2 Number of Hopping Frequencies

5.2.1 Limit

FCC §15.247(a); RSS-247, 5.1 (c)

For FHSs in the band 902-928 MHz: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping channels and the average time of occupancy on any channel 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 channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period. The maximum 20 dB bandwidth of the hopping channel shall be 500 kHz.

5.2.2 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.

5.2.3 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

5.3.1 Test Limit

FCC § 15.247(b); RSS-247, 5.4 (a)

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

RSS-247, 5.4 (2)

For FHSs operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

Use the following spectrum analyzer settings:

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

RBW > the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

EIRP= conducted RF output peak power +Antenna Gain.

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, 5.1 (a)

Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.2 Test Procedure

Use the following spectrum analyzer settings:

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

RBW = in the range of 1% to 5% of the OBW

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.4.3 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a); RSS-247, 5.1 (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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, 5.1 (c)

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.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The 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.

5.6.4 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, 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

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 and A.7

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 4.4.2 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.

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.

5.8.4 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, 5.5

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

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

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	902/F(kHz)	300
0.490 - 1.705	9020/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

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

5.9.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 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, 5.5

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

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ 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.

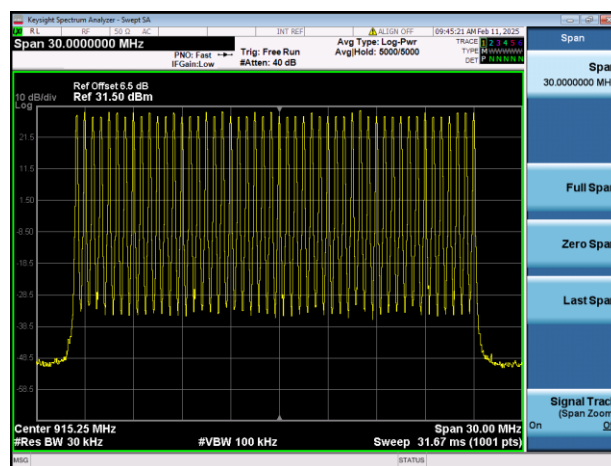
ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Test Data

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
RFID	902-928	50	50	Pass

Test Plots



A.2 Peak Output Power

Since the antenna gain is 6.79dB. Therefore, the limit should be $30 - (6.79 - 6) = 29.2$ dBm

Peak Power Test Data

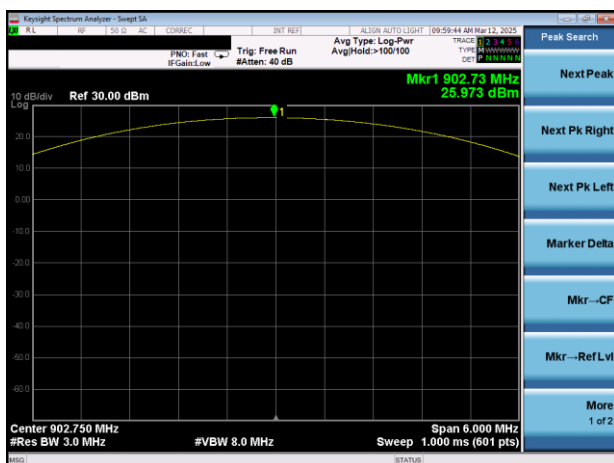
Channel	Measured Output Peak Power		Limit		Verdict
	RFID		dBm	mW	
	dBm	mW			
Low	25.97	395.64	29.2	831.76	Pass
Middle	26.04	402.16			Pass
High	26.10	407.38			Pass

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

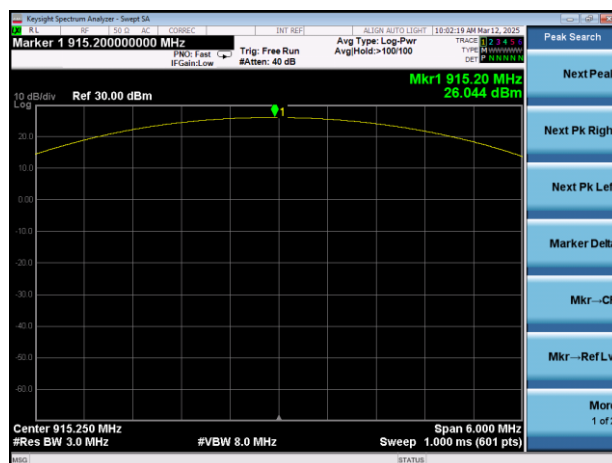
Channel	E.I.R.P		Limit		Verdict
	RFID		dBm	mW	
	dBm	mW			
Low	32.76	1889.30	36	4000	Pass
Middle	32.83	1920.44			Pass
High	32.89	1945.36			Pass

Test Plots

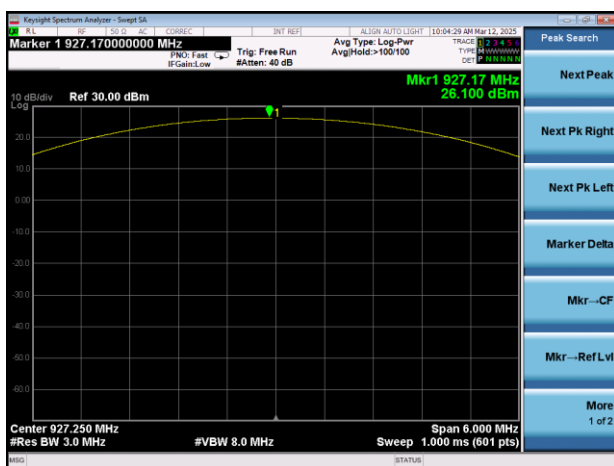
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



A.3 20 dB and 99% bandwidth

Test Data

RFID			
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Verdict
Low	0.081000	0.073556	Pass
Middle	0.081000	0.073461	Pass
High	0.081000	0.073456	Pass

Test Plots

20 dB Bandwidth

LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

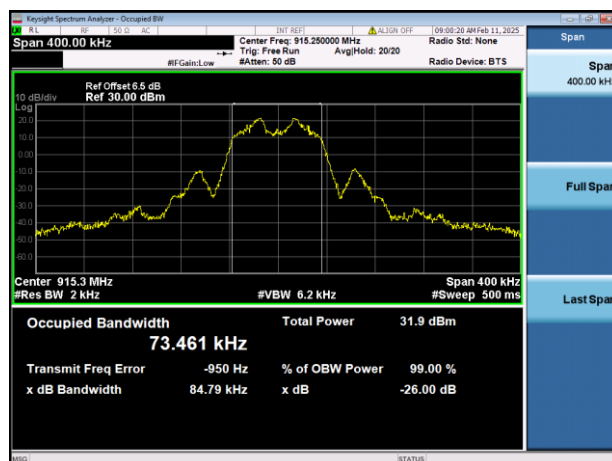


99% Bandwidth

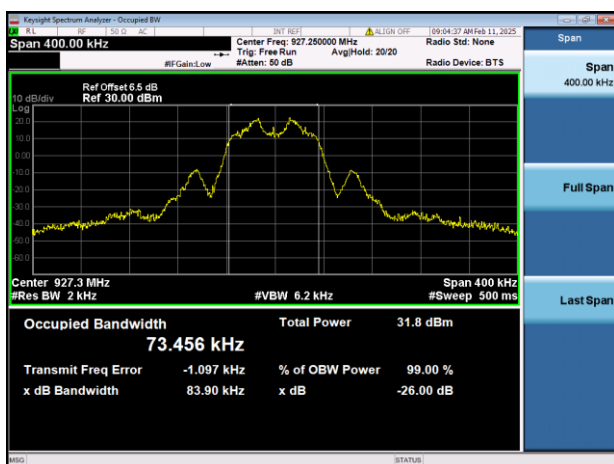
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

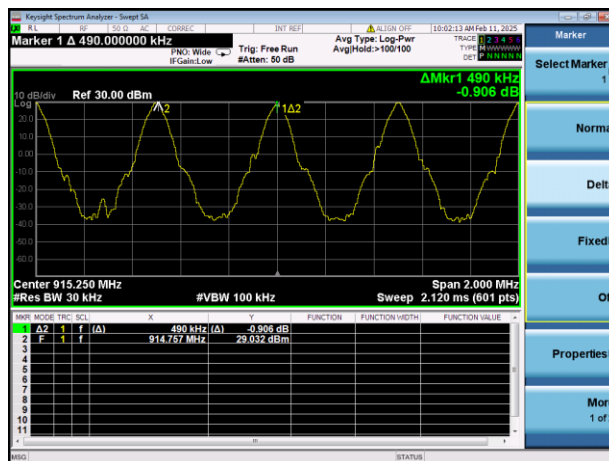


A.4 Hopping Frequency Separation

Test Data

Mode	Frequency separation (MHz)	Max 20 dB Bandwidth (MHz)	Verdict
RFID	0.490	0.081	Pass

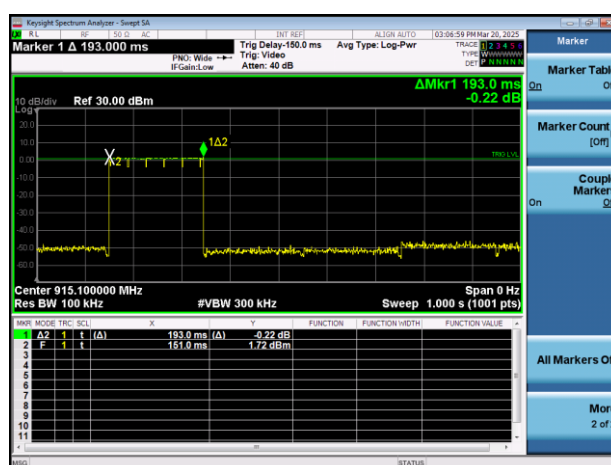
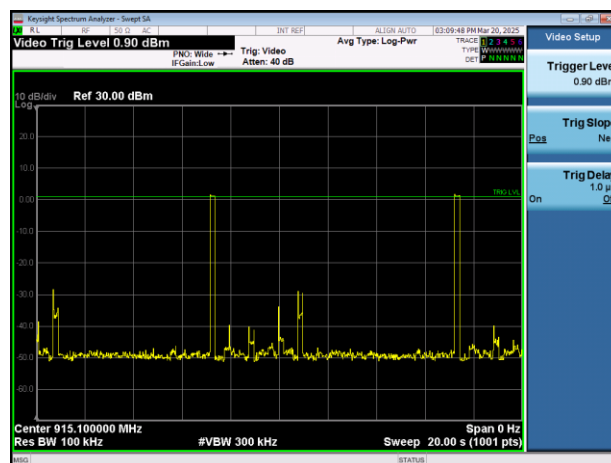
Test Plots



A.5 Average Time of Occupancy

Test Data

Total of Dwell (ms)	Limit (sec)	Verdict
386.0	0.4	Pass



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

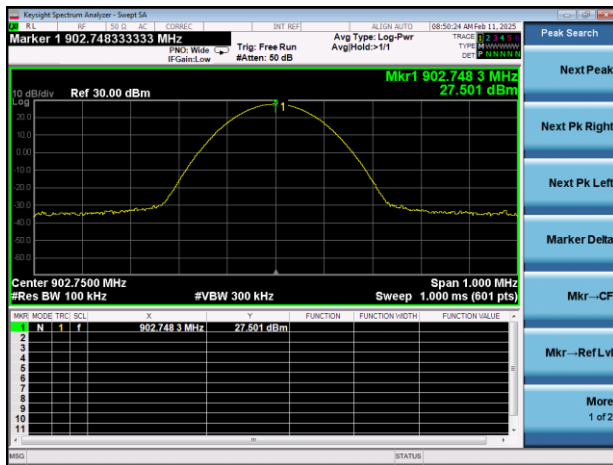
Test Data

RFID				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-20.85	27.50	7.50	Pass
Middle	-20.92	27.52	7.52	Pass
High	-21.58	27.50	7.50	Pass

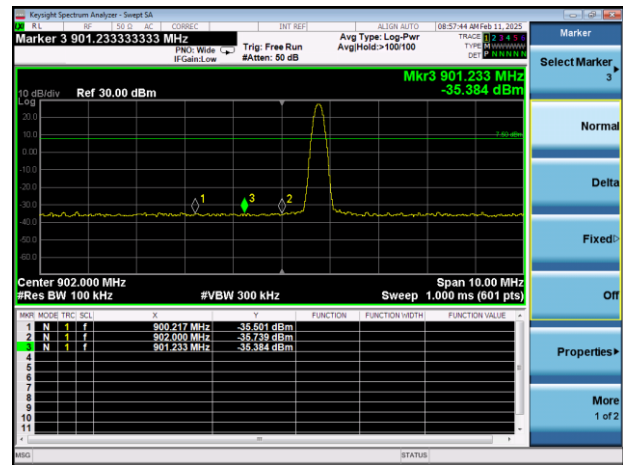
RFID				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Hopping	-20.58	29.35	9.35	Pass

Test Plots

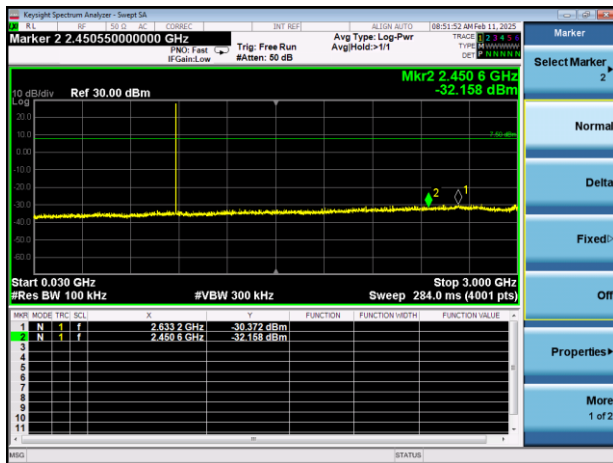
LOW CHANNEL, CARRIER LEVEL



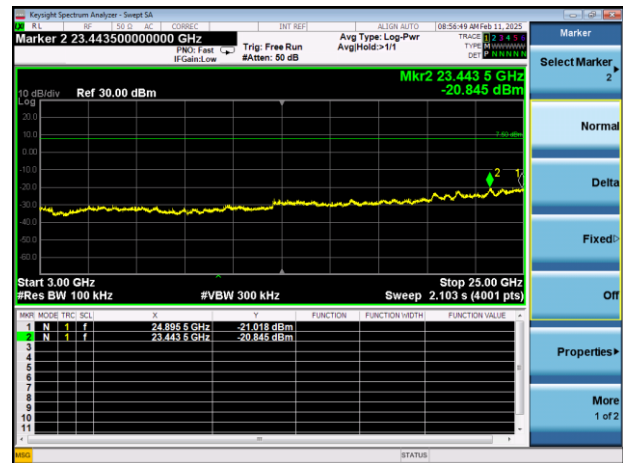
LOW CHANNEL, Band Edge



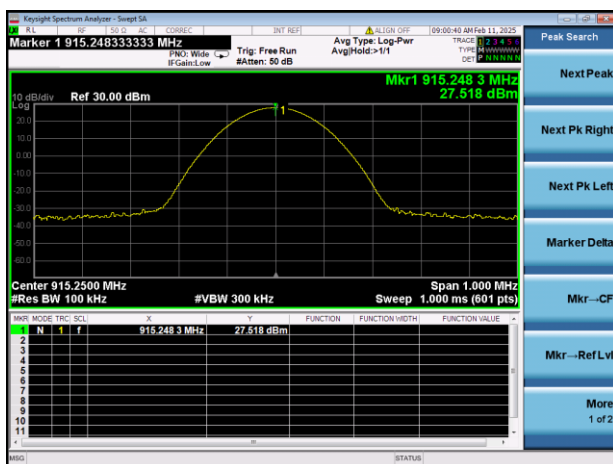
LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



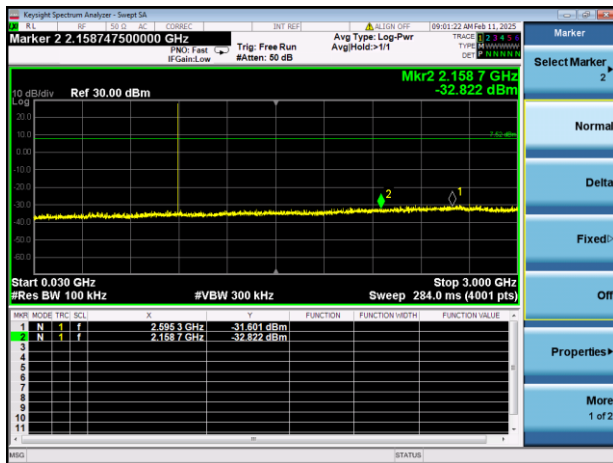
LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



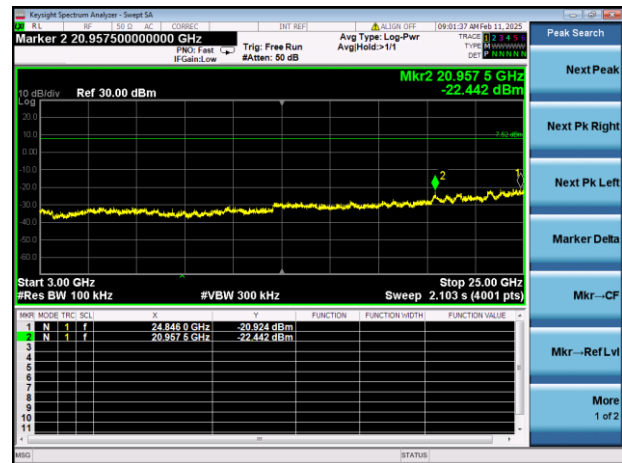
MIDDLE CHANNEL, CARRIER LEVEL



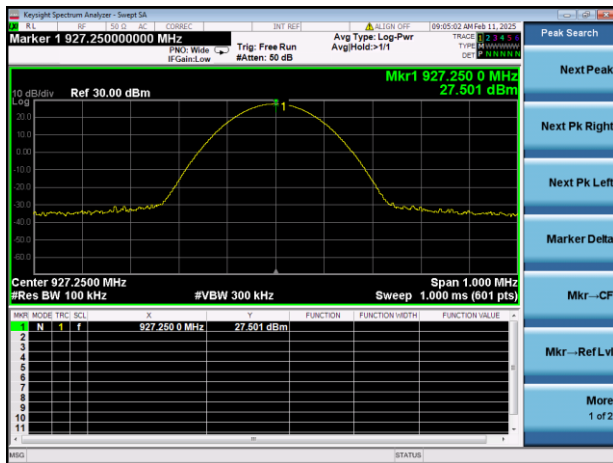
MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



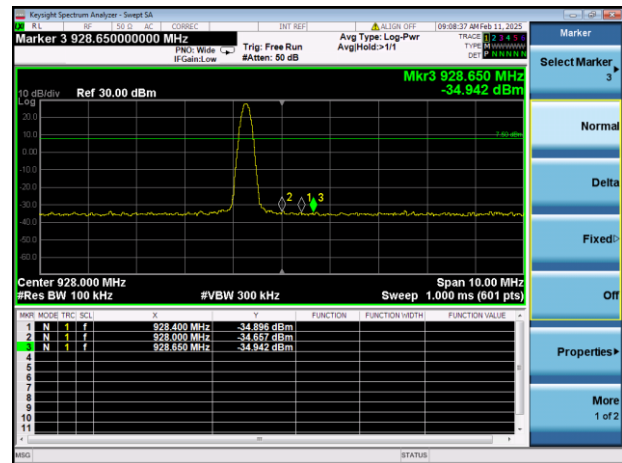
MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



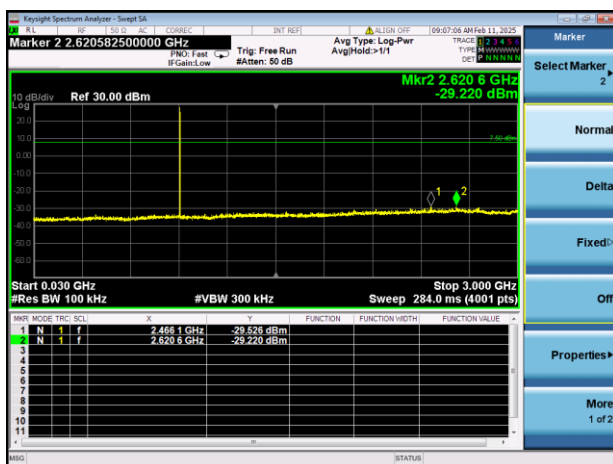
HIGH CHANNEL , CARRIER LEVEL



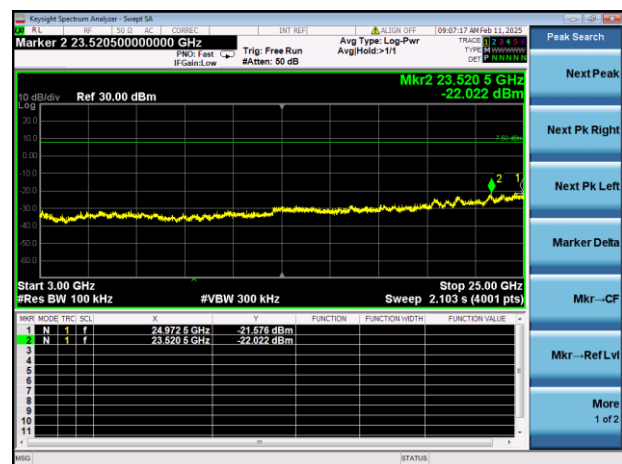
HIGH CHANNEL , BAND EDGE



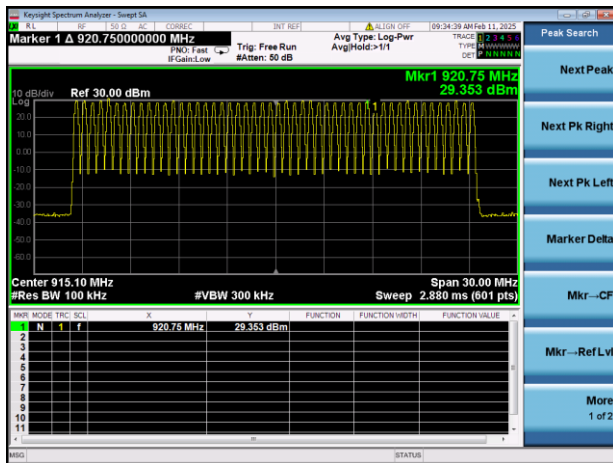
HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



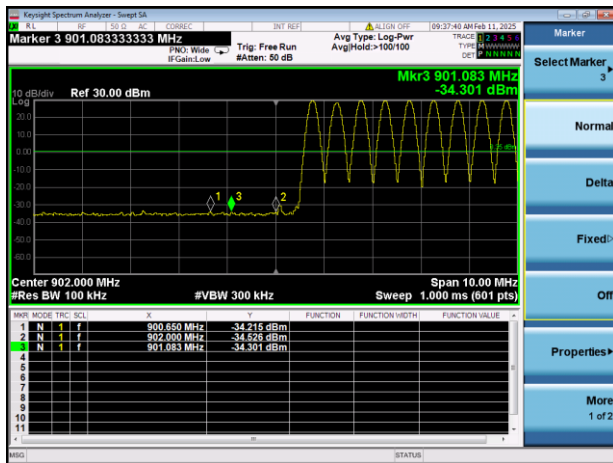
HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



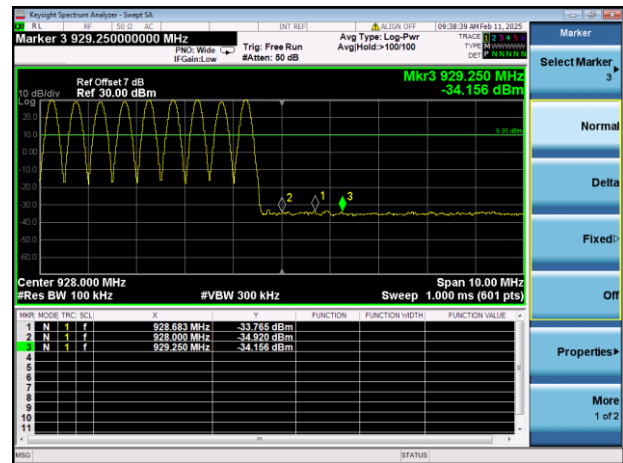
HOPPING, CARRIER LEVEL



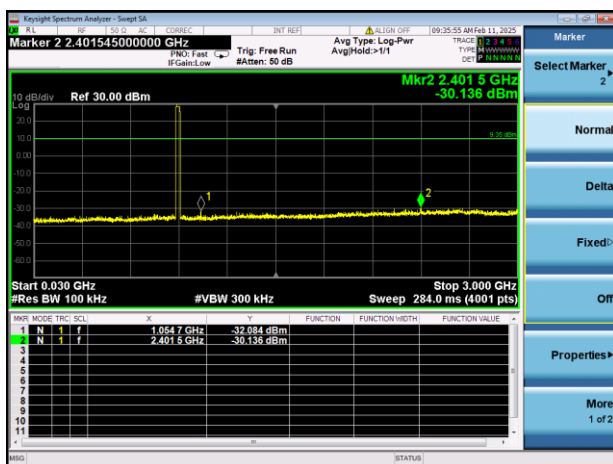
HOPPING BAND EDGE (LOW)



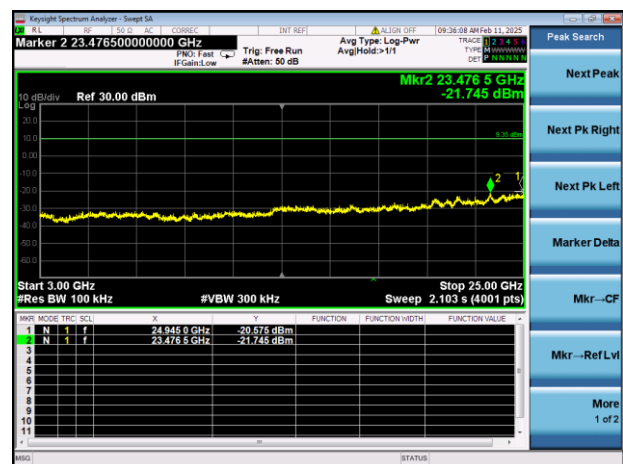
HOPPING BAND EDGE (HIGH)



HOPPING Mode, SPURIOUS 30 MHz ~ 3 GHz



Hopping Mode, SPURIOUS 3 GHz ~ 25 GHz



A.7 Conducted Emissions

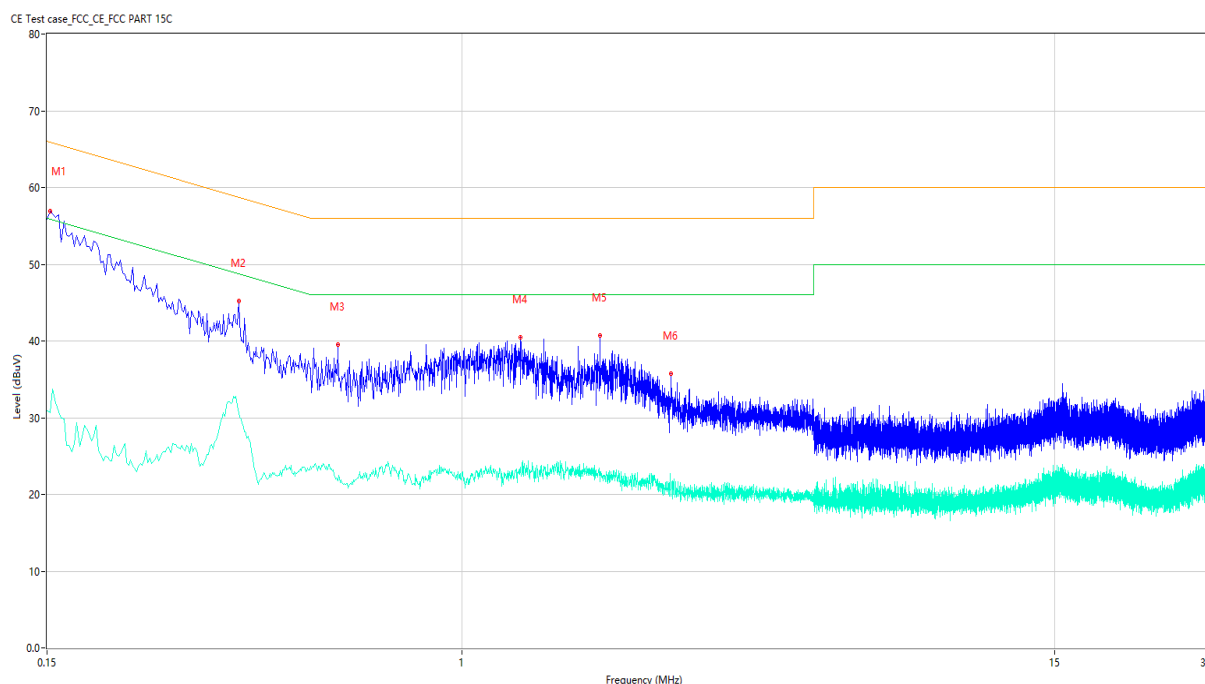
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

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

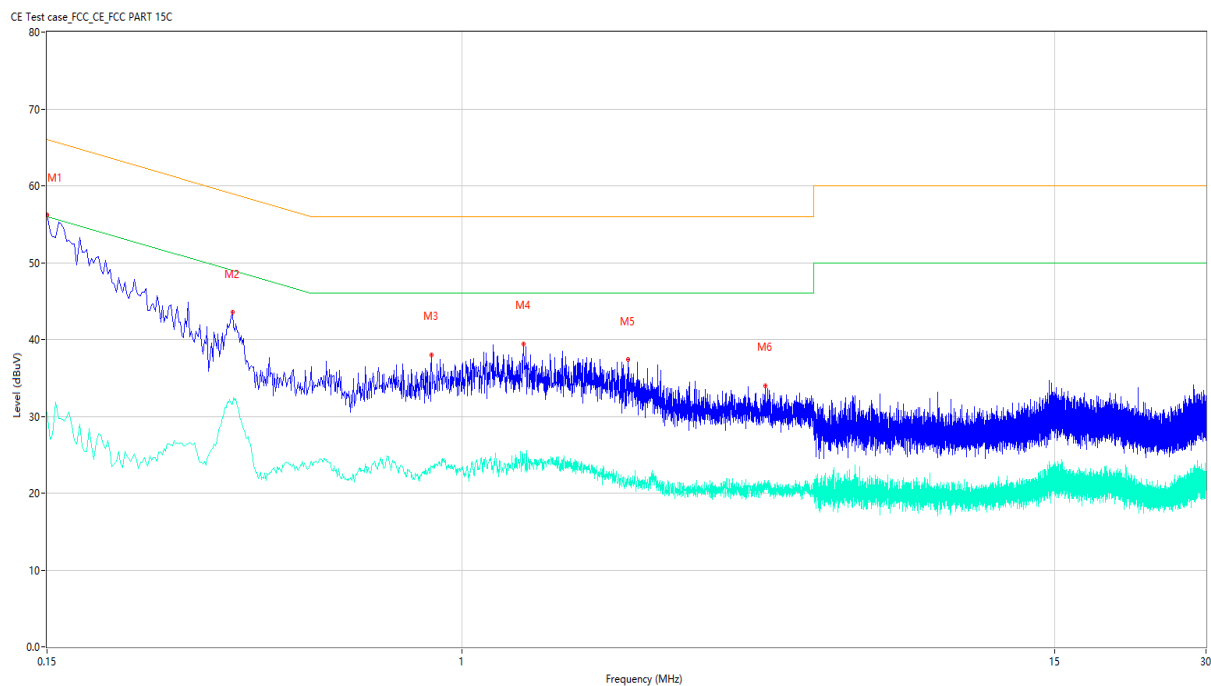
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	56.90	9.75	65.89	8.99	Peak	L	Pass
1**	0.152	30.71	9.75	55.89	25.18	AV	L	Pass
2	0.360	45.18	9.74	58.73	13.55	Peak	L	Pass
2**	0.360	30.69	9.74	48.73	18.04	AV	L	Pass
3	0.568	39.47	9.73	56.00	16.53	Peak	L	Pass
3**	0.568	21.73	9.73	46.00	24.27	AV	L	Pass
4	1.304	40.43	9.70	56.00	15.57	Peak	L	Pass
4**	1.304	23.52	9.70	46.00	22.48	AV	L	Pass
5	1.878	40.65	9.68	56.00	15.35	Peak	L	Pass
5**	1.878	22.26	9.68	46.00	23.74	AV	L	Pass
6	2.598	35.69	9.67	56.00	20.31	Peak	L	Pass
6**	2.598	19.89	9.67	46.00	26.11	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	56.18	9.69	66.00	9.82	Peak	N	Pass
1**	0.150	30.55	9.69	56.00	25.45	AV	N	Pass
2	0.350	43.57	9.77	58.96	15.39	Peak	N	Pass
2**	0.350	31.58	9.77	48.96	17.38	AV	N	Pass
3	0.870	38.03	9.87	56.00	17.97	Peak	N	Pass
3**	0.870	23.44	9.87	46.00	22.56	AV	N	Pass
4	1.324	39.46	9.86	56.00	16.54	Peak	N	Pass
4**	1.324	24.04	9.86	46.00	21.96	AV	N	Pass
5	2.136	37.40	9.86	56.00	18.60	Peak	N	Pass
5**	2.136	22.18	9.86	46.00	23.82	AV	N	Pass
6	4.002	34.00	9.84	56.00	22.00	Peak	N	Pass
6**	4.002	21.21	9.84	46.00	24.79	AV	N	Pass

A.8 Radiated Spurious Emission

Note ¹: The symbol of "--" in the table which means not application.

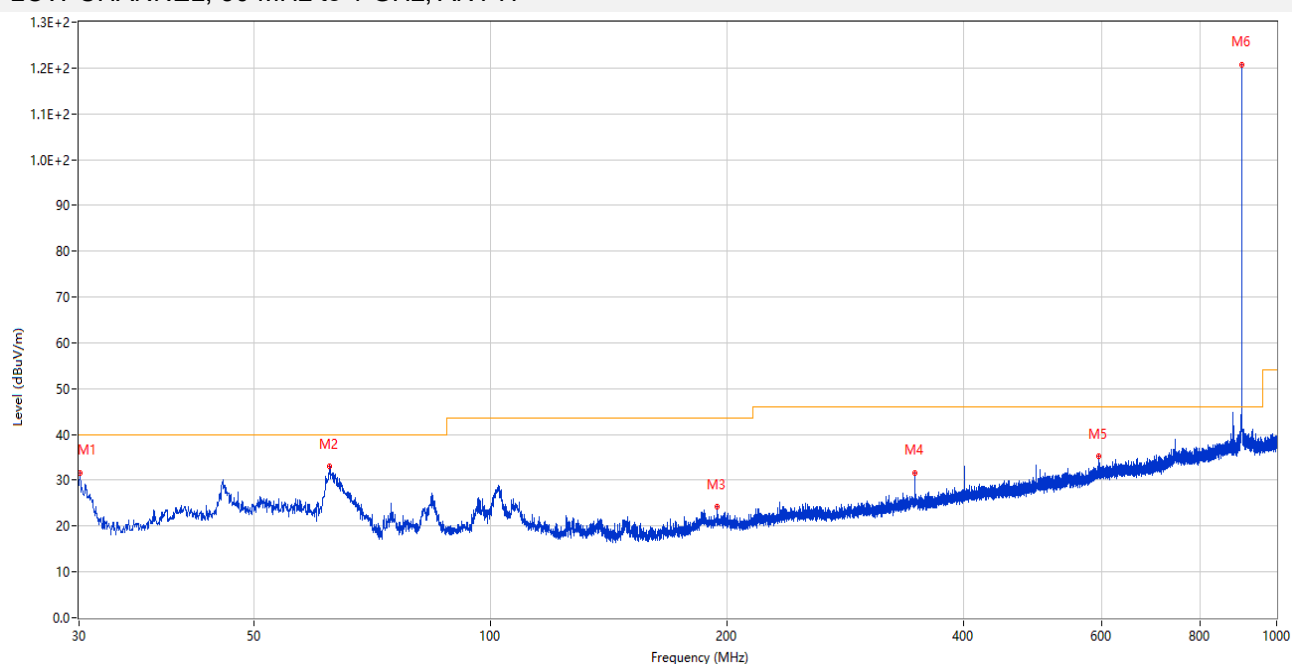
Note ²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The 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

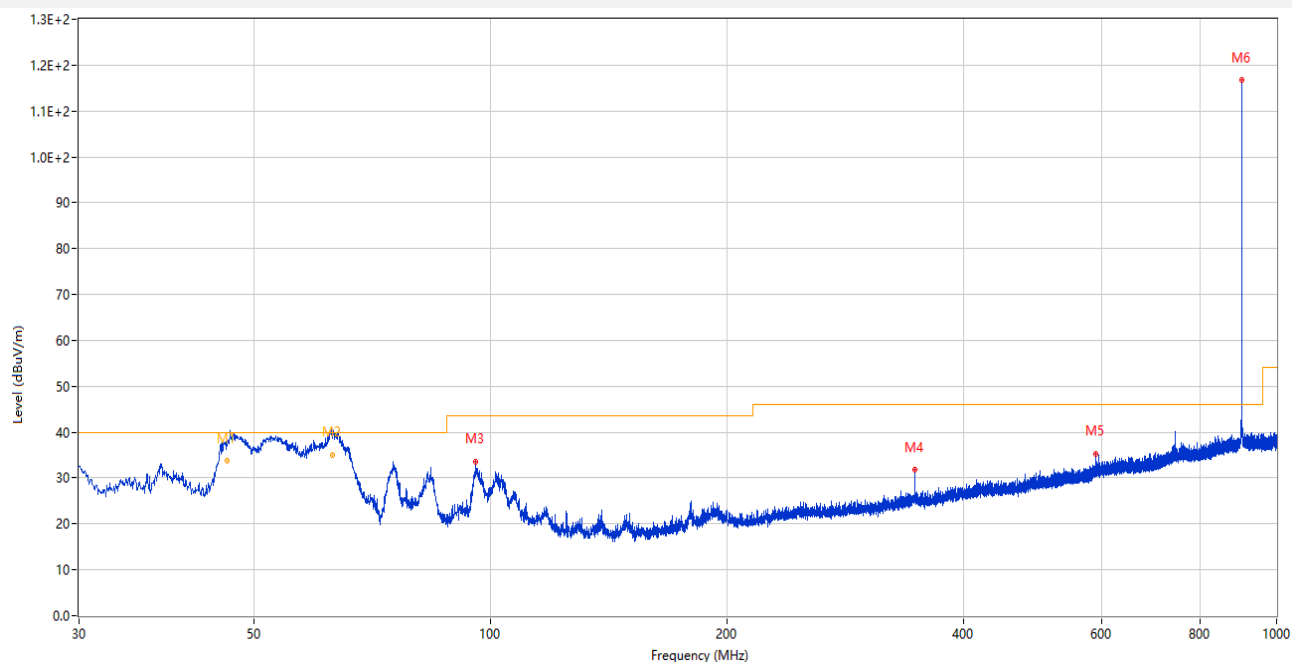
External Antenna

LOW CHANNEL, 30 MHz to 1 GHz, ANT H



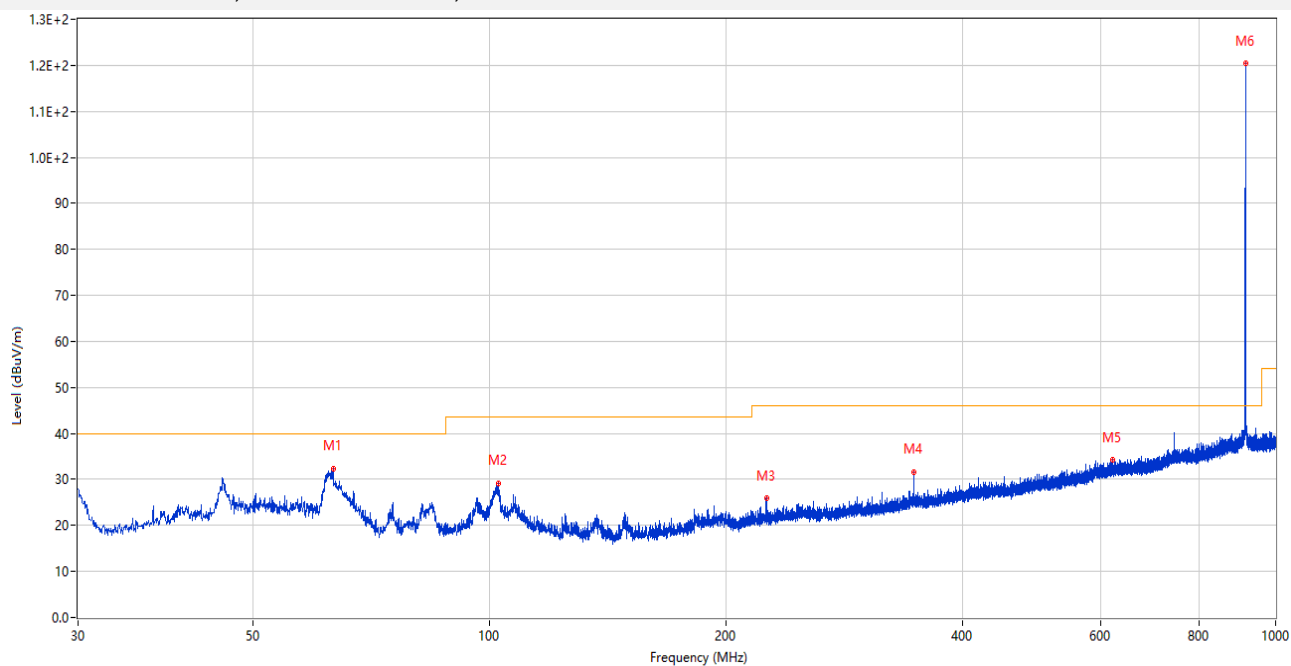
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.049	31.69	-18.97	40.0	8.31	Peak	170.00	100	Horizontal	Pass
2	62.544	32.97	-16.80	40.0	7.03	Peak	96.00	100	Horizontal	Pass
3	194.560	24.16	-16.07	43.5	19.34	Peak	0.00	100	Horizontal	Pass
4	346.511	31.70	-11.84	46.0	14.30	Peak	70.00	100	Horizontal	Pass
5	593.958	35.27	-5.71	46.0	10.73	Peak	41.00	200	Horizontal	Pass
6	902.758	120.78	-0.00	46.0	-74.78	Peak	227.00	200	Horizontal	N/A

LOW CHANNEL, 30 MHz to 1 GHz, ANT V



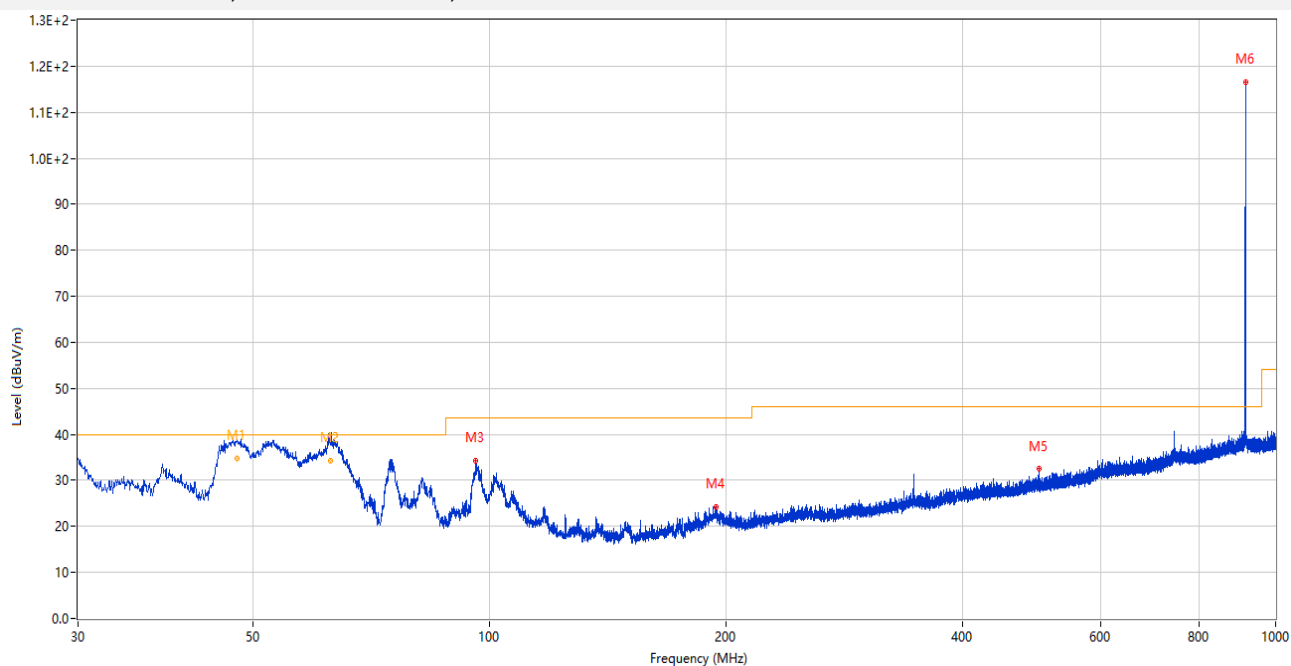
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.222	39.25	-14.66	40.0	0.75	Peak	34.00	100	Vertical	N/A
1*	46.222	33.74	-14.66	40.0	6.26	QP	34.00	100	Vertical	Pass
2	63.004	40.47	-16.88	40.0	-0.47	Peak	119.00	115	Vertical	N/A
2*	63.004	35.04	-16.88	40.0	4.96	QP	119.00	115	Vertical	Pass
3	95.863	33.66	-16.79	43.5	9.84	Peak	64.00	100	Vertical	Pass
4	346.511	31.82	-11.84	46.0	14.18	Peak	259.00	100	Vertical	Pass
5	588.478	35.32	-5.97	46.0	10.68	Peak	100.00	100	Vertical	Pass
6	902.758	116.73	-0.00	46.0	-70.73	Peak	234.00	100	Vertical	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT H



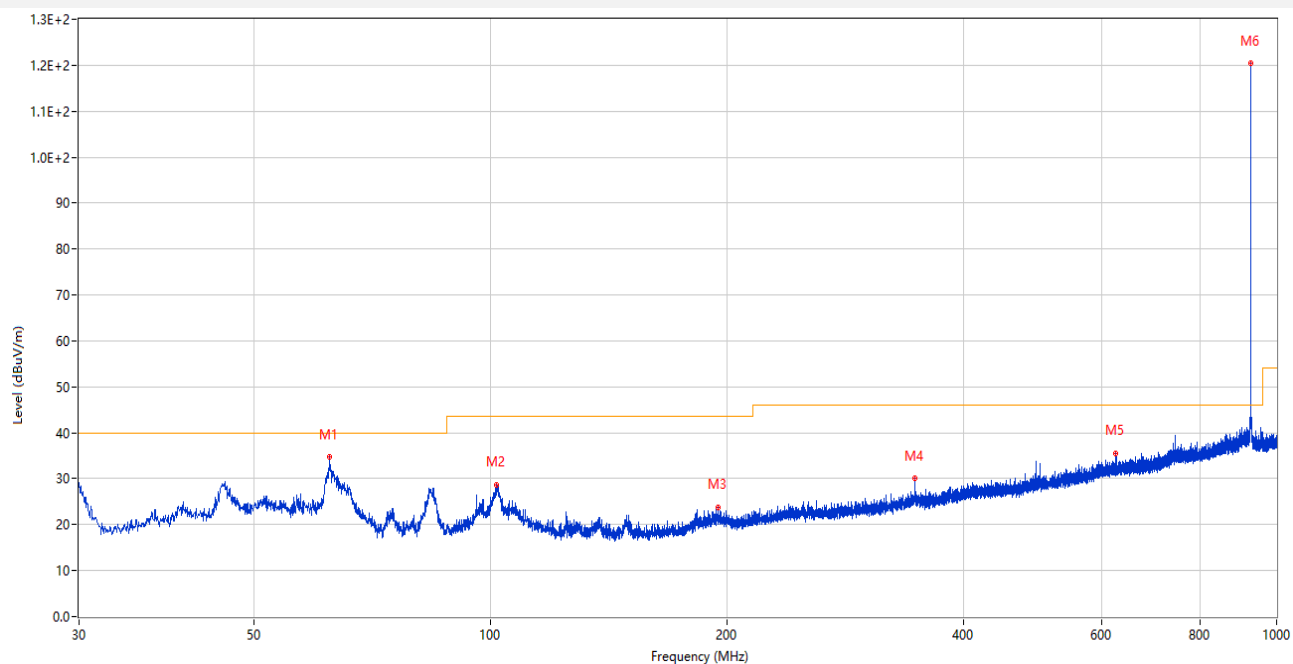
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.319	32.42	-16.97	40.0	7.58	Peak	48.00	100	Horizontal	Pass
2	102.799	29.05	-16.34	43.5	14.45	Peak	266.00	100	Horizontal	Pass
3	225.067	25.89	-15.59	46.0	20.11	Peak	273.00	100	Horizontal	Pass
4	346.462	31.47	-11.84	46.0	14.53	Peak	360.00	200	Horizontal	Pass
5	620.876	34.25	-5.12	46.0	11.75	Peak	360.00	200	Horizontal	Pass
6	915.271	120.41	0.24	46.0	-74.41	Peak	222.00	200	Horizontal	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT V



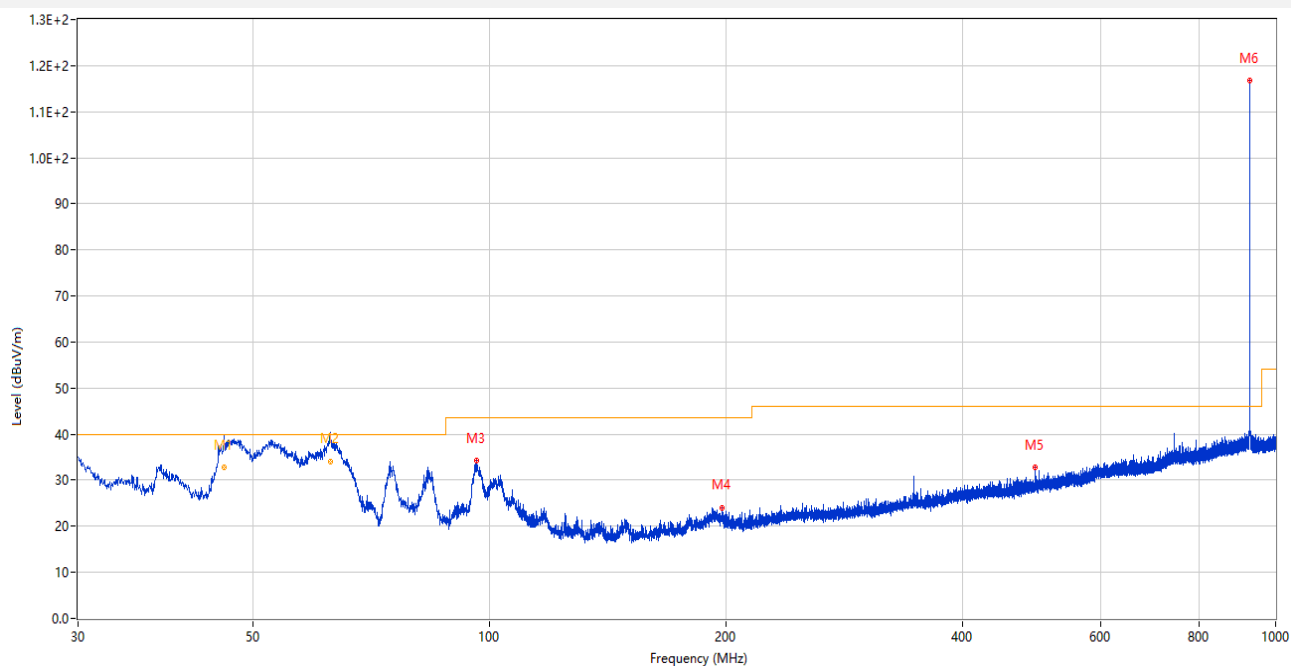
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.851	38.73	-14.64	40.0	1.27	Peak	22.00	102	Vertical	N/A
1*	47.851	34.68	-14.64	40.0	5.32	QP	22.00	102	Vertical	Pass
2	62.778	39.78	-16.90	40.0	0.22	Peak	148.00	102	Vertical	N/A
2*	62.778	34.36	-16.90	40.0	5.64	QP	148.00	102	Vertical	Pass
3	96.202	34.23	-16.73	43.5	9.27	Peak	95.00	100	Vertical	Pass
4	194.270	24.33	-16.10	43.5	19.17	Peak	0.00	100	Vertical	Pass
5	500.014	32.58	-8.52	46.0	13.42	Peak	314.00	200	Vertical	Pass
6	915.271	116.62	0.24	46.0	-70.62	Peak	179.00	100	Vertical	N/A

HIGH CHANNEL, 30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	62.495	34.65	-16.79	40.0	5.35	Peak	131.00	100	Horizontal	Pass
2	101.731	28.72	-16.33	43.5	14.78	Peak	77.00	100	Horizontal	Pass
3	194.803	23.80	-16.05	43.5	19.70	Peak	131.00	100	Horizontal	Pass
4	346.462	29.99	-11.84	46.0	16.01	Peak	215.00	100	Horizontal	Pass
5	624.998	35.57	-5.16	46.0	10.43	Peak	325.00	100	Horizontal	Pass
6	927.250	120.45	0.25	46.0	-74.45	Peak	221.00	200	Horizontal	N/A

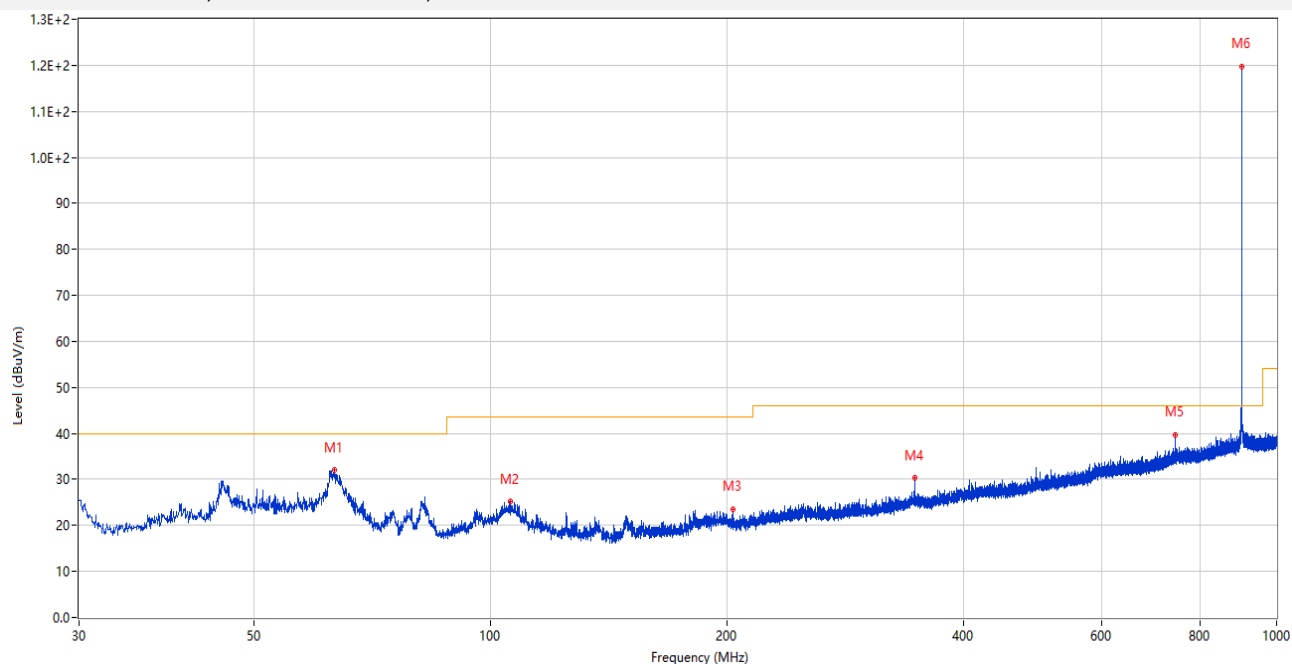
HIGH CHANNEL, 30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.058	39.23	-14.72	40.0	0.77	Peak	31.00	102	Vertical	N/A
1*	46.058	32.71	-14.72	40.0	7.29	QP	31.00	102	Vertical	Pass
2	62.763	39.89	-16.85	40.0	0.11	Peak	0.00	100	Vertical	N/A
2*	62.763	34.10	-16.85	40.0	5.90	QP	0.00	100	Vertical	Pass
3	96.299	34.24	-16.71	43.5	9.26	Peak	120.00	100	Vertical	Pass
4	197.810	24.03	-16.03	43.5	19.47	Peak	265.00	100	Vertical	Pass
5	495.018	32.82	-8.61	46.0	13.18	Peak	235.00	200	Vertical	Pass
6	927.250	116.72	0.25	46.0	-70.72	Peak	233.00	100	Vertical	N/A

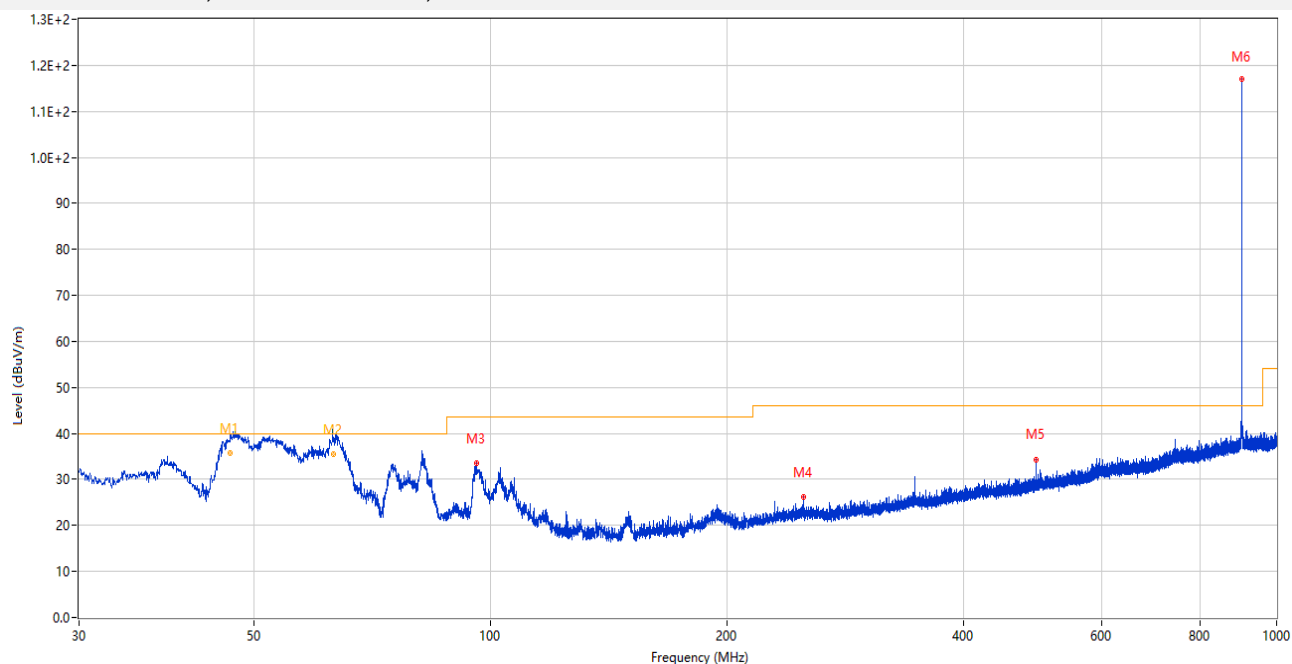
Internal Antenna

LOW CHANNEL, 30 MHz to 1 GHz, ANT H



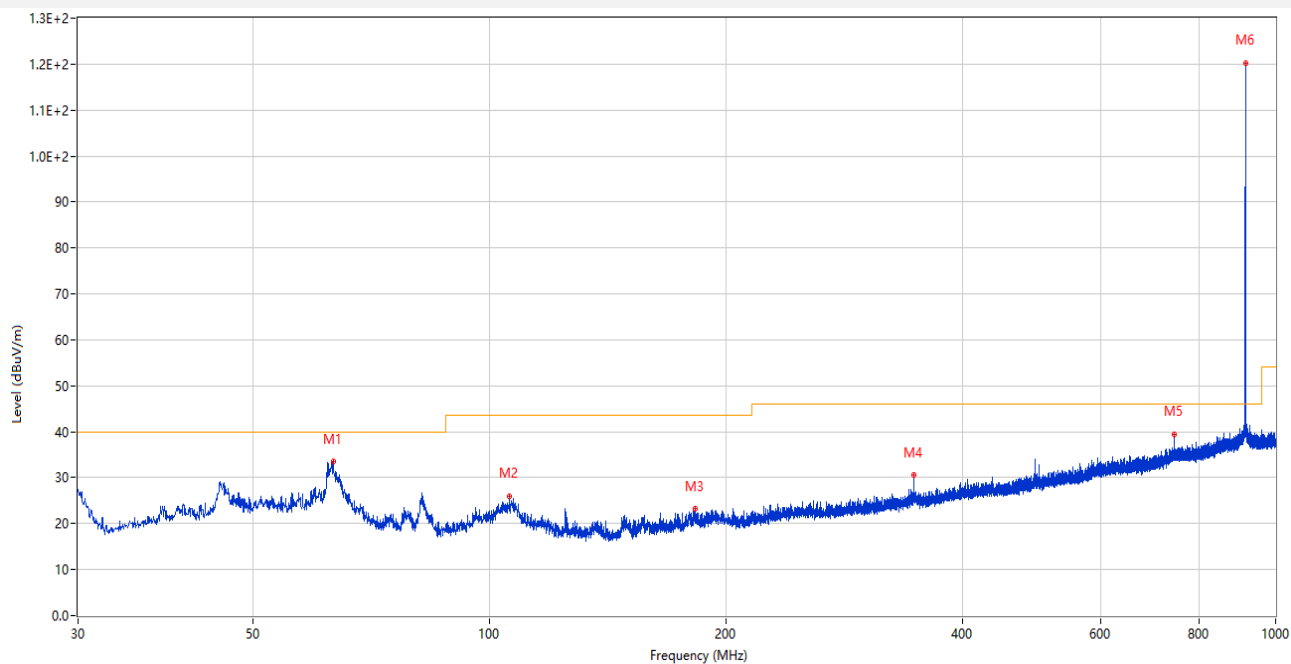
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.319	31.99	-16.97	40.0	8.01	Peak	161.00	200	Horizontal	Pass
2	106.145	25.16	-16.49	43.5	18.34	Peak	265.00	200	Horizontal	Pass
3	203.630	23.62	-16.61	43.5	19.88	Peak	71.00	100	Horizontal	Pass
4	346.511	30.33	-11.84	46.0	15.67	Peak	260.00	100	Horizontal	Pass
5	742.513	39.58	-2.57	46.0	6.42	Peak	0.00	100	Horizontal	Pass
6	902.758	119.84	-0.00	46.0	-73.84	Peak	217.00	200	Horizontal	N/A

LOW CHANNEL, 30 MHz to 1 GHz, ANT V



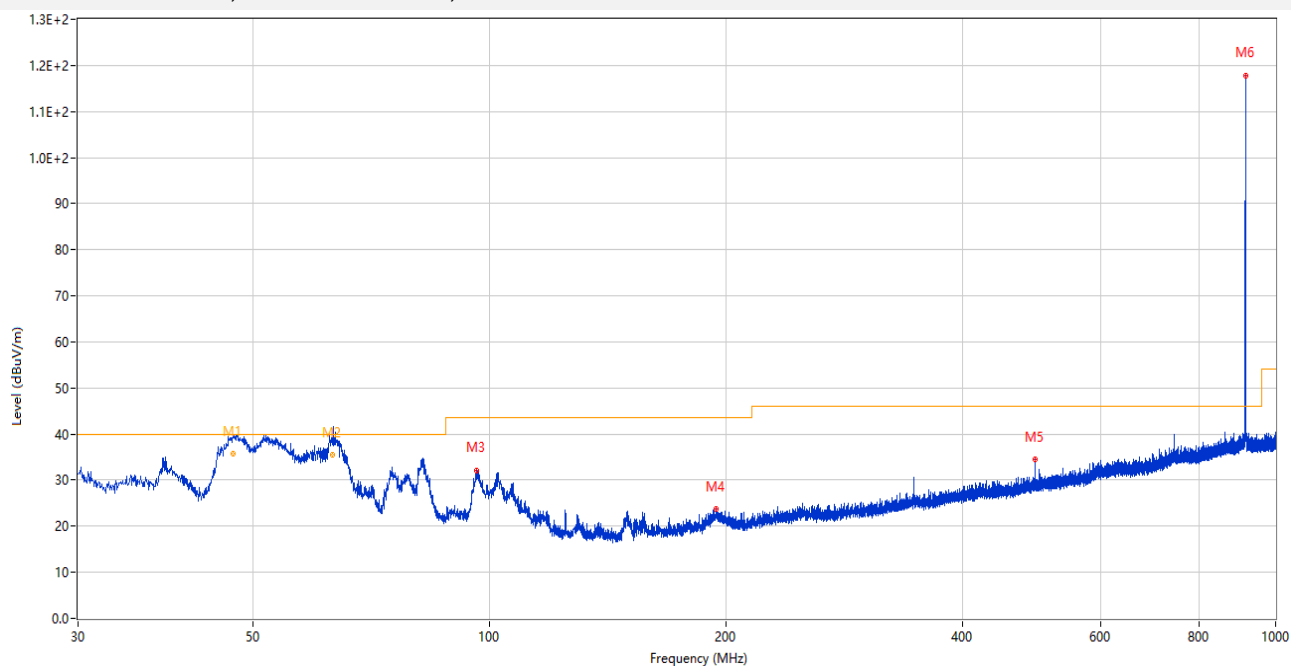
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.711	40.91	-14.64	40.0	-0.91	Peak	0.00	100	Vertical	N/A
1*	46.711	35.69	-14.64	40.0	4.31	QP	0.00	100	Vertical	Pass
2	63.188	43.31	-16.91	40.0	-3.31	Peak	73.00	100	Vertical	N/A
2*	63.188	35.47	-16.91	40.0	4.53	QP	73.00	100	Vertical	Pass
3	95.960	33.63	-16.77	43.5	9.87	Peak	7.00	100	Vertical	Pass
4	249.996	26.17	-14.38	46.0	19.83	Peak	0.00	100	Vertical	Pass
5	495.018	34.23	-8.61	46.0	11.77	Peak	0.00	100	Vertical	Pass
6	902.758	117.00	-0.00	46.0	-71.00	Peak	165.00	100	Vertical	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT H



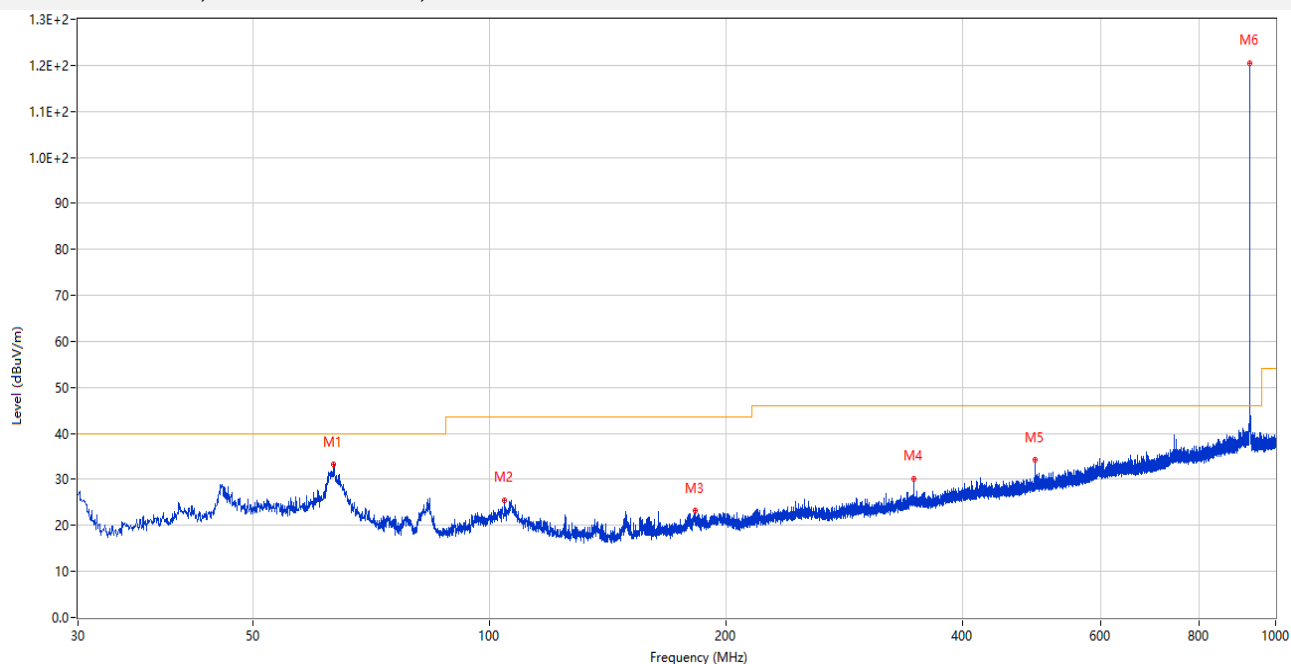
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.319	33.51	-16.97	40.0	6.49	Peak	114.00	100	Horizontal	Pass
2	106.048	26.07	-16.47	43.5	17.43	Peak	348.00	200	Horizontal	Pass
3	182.726	23.24	-17.81	43.5	20.26	Peak	9.00	200	Horizontal	Pass
4	346.511	30.60	-11.84	46.0	15.40	Peak	348.00	200	Horizontal	Pass
5	742.513	39.44	-2.57	46.0	6.56	Peak	264.00	200	Horizontal	Pass
6	915.271	120.24	0.24	46.0	-74.24	Peak	215.00	200	Horizontal	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT V



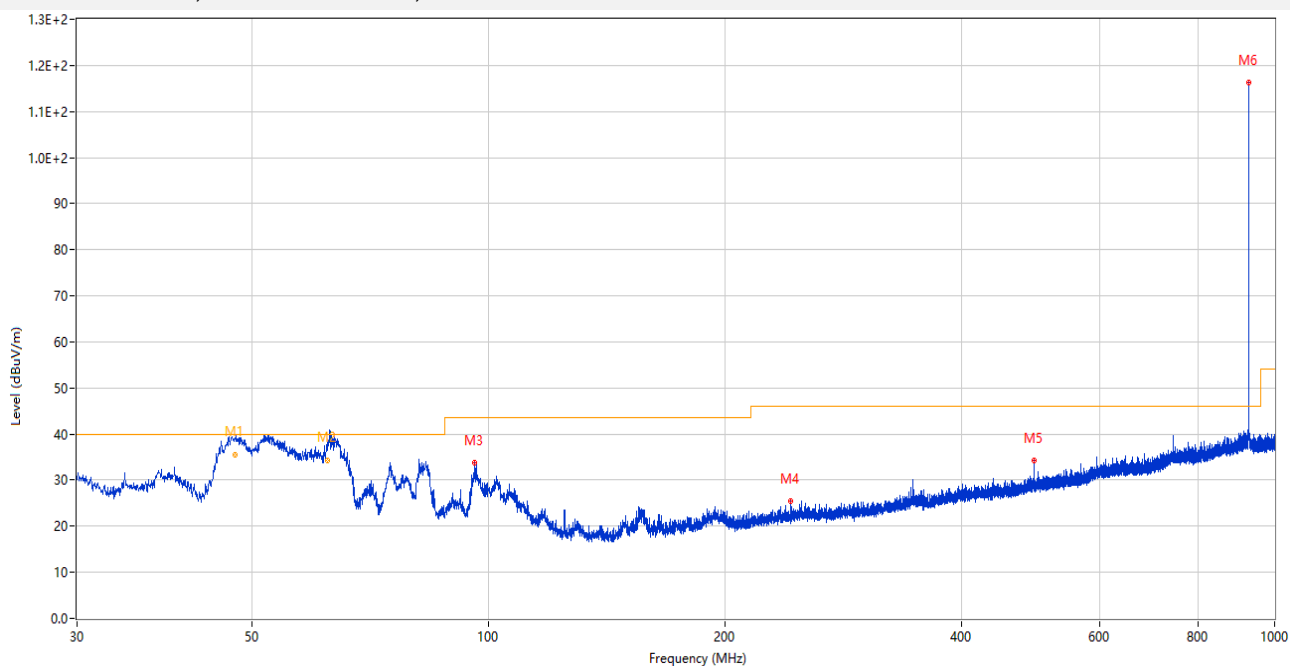
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.182	39.92	-14.64	40.0	0.08	Peak	48.00	114	Vertical	N/A
1*	47.182	35.72	-14.64	40.0	4.28	QP	48.00	114	Vertical	Pass
2	63.130	41.24	-16.97	40.0	-1.24	Peak	102.00	109	Vertical	N/A
2*	63.130	35.43	-16.97	40.0	4.57	QP	102.00	109	Vertical	Pass
3	96.396	32.17	-16.69	43.5	11.33	Peak	199.00	100	Vertical	Pass
4	194.512	23.73	-16.08	43.5	19.77	Peak	13.00	200	Vertical	Pass
5	495.018	34.40	-8.61	46.0	11.60	Peak	161.00	200	Vertical	Pass
6	915.271	117.88	0.24	46.0	-71.88	Peak	162.00	100	Vertical	N/A

HIGH CHANNEL, 30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.465	33.22	-17.01	40.0	6.78	Peak	314.00	100	Horizontal	Pass
2	104.690	25.57	-16.36	43.5	17.93	Peak	77.00	100	Horizontal	Pass
3	182.532	23.15	-17.83	43.5	20.35	Peak	2.00	200	Horizontal	Pass
4	346.462	30.18	-11.84	46.0	15.82	Peak	234.00	100	Horizontal	Pass
5	495.018	34.18	-8.61	46.0	11.82	Peak	179.00	100	Horizontal	Pass
6	927.250	120.51	0.25	46.0	-74.51	Peak	217.00	200	Horizontal	N/A

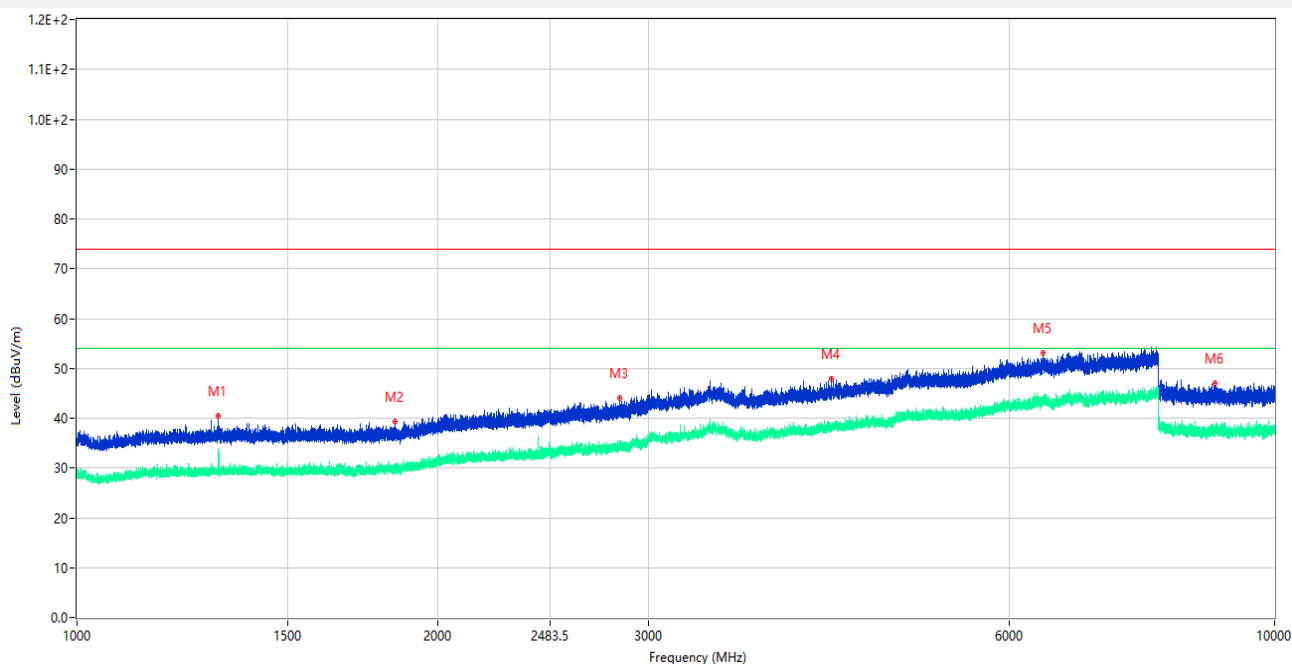
HIGH CHANNEL, 30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.639	39.61	-14.64	40.0	0.39	Peak	99.00	107	Vertical	N/A
1*	47.639	35.46	-14.64	40.0	4.54	QP	99.00	107	Vertical	Pass
2	62.505	42.13	-16.88	40.0	-2.13	Peak	0.00	104	Vertical	N/A
2*	62.505	34.22	-16.88	40.0	5.78	QP	0.00	104	Vertical	Pass
3	96.202	33.66	-16.73	43.5	9.84	Peak	359.00	100	Vertical	Pass
4	242.382	25.40	-14.60	46.0	20.60	Peak	360.00	200	Vertical	Pass
5	494.970	34.28	-8.61	46.0	11.72	Peak	11.00	200	Vertical	Pass
6	927.250	116.29	0.25	46.0	-70.29	Peak	217.00	100	Vertical	N/A

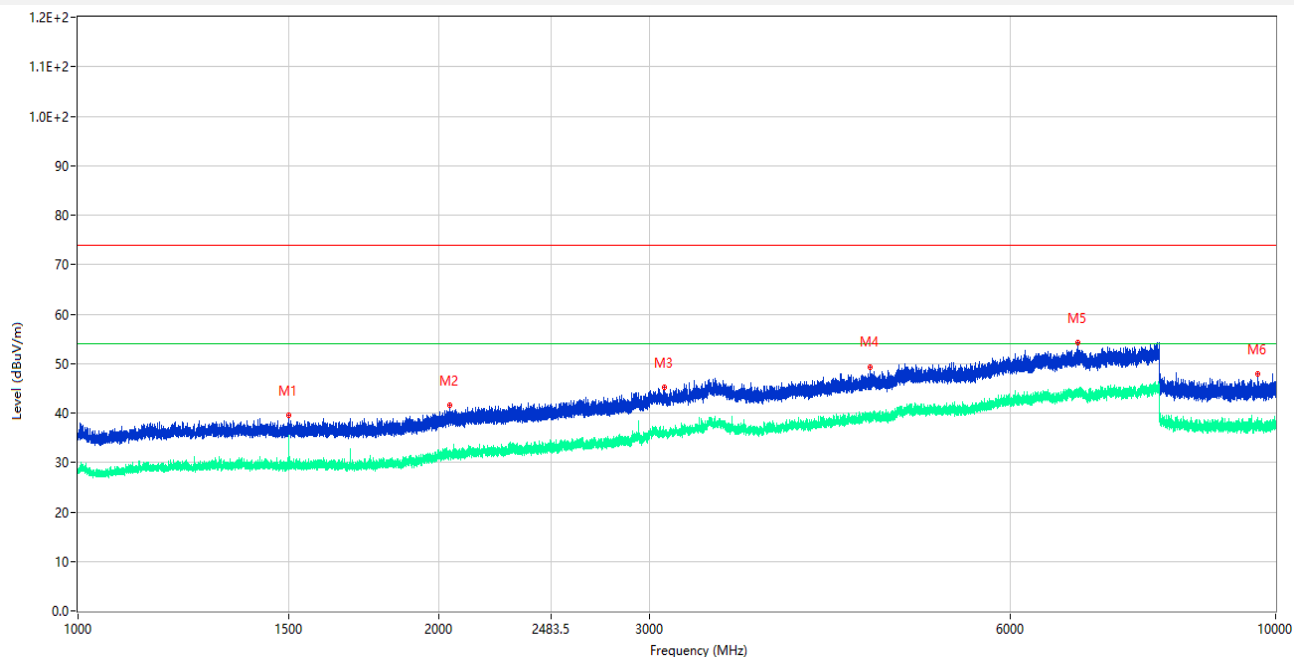
External Antenna

LOW CHANNEL 1 GHz to 12.75 GHz, ANT H



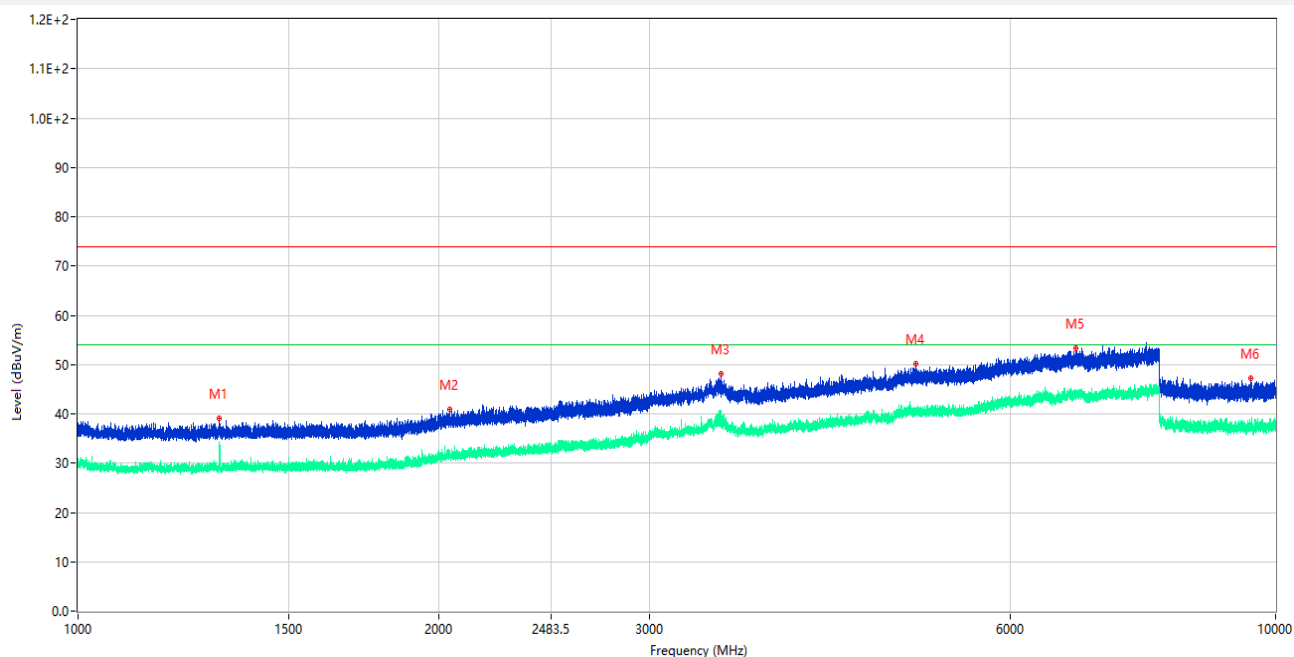
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.300	40.52	-15.82	74.0	33.48	Peak	15.00	150	Horizontal	Pass
1**	1312.300	33.11	-15.82	54.0	20.89	AV	15.00	150	Horizontal	Pass
2	1844.500	39.39	-15.83	74.0	34.61	Peak	141.00	150	Horizontal	Pass
2**	1844.500	29.62	-15.83	54.0	24.38	AV	141.00	150	Horizontal	Pass
3	2839.700	44.02	-9.50	74.0	29.98	Peak	274.00	150	Horizontal	Pass
3**	2839.700	34.16	-9.50	54.0	19.84	AV	274.00	150	Horizontal	Pass
4	4267.250	47.80	-3.59	74.0	26.20	Peak	98.00	150	Horizontal	Pass
4**	4267.250	37.70	-3.59	54.0	16.30	AV	98.00	150	Horizontal	Pass
5	6409.750	53.16	0.29	74.0	20.84	Peak	247.00	150	Horizontal	Pass
5**	6409.750	44.34	0.29	54.0	9.66	AV	247.00	150	Horizontal	Pass
6	8913.188	47.04	-4.87	74.0	26.96	Peak	166.00	150	Horizontal	Pass
6**	8913.188	37.01	-4.87	54.0	16.99	AV	166.00	150	Horizontal	Pass

LOW CHANNEL 1 GHz to 12.75 GHz, ANT V



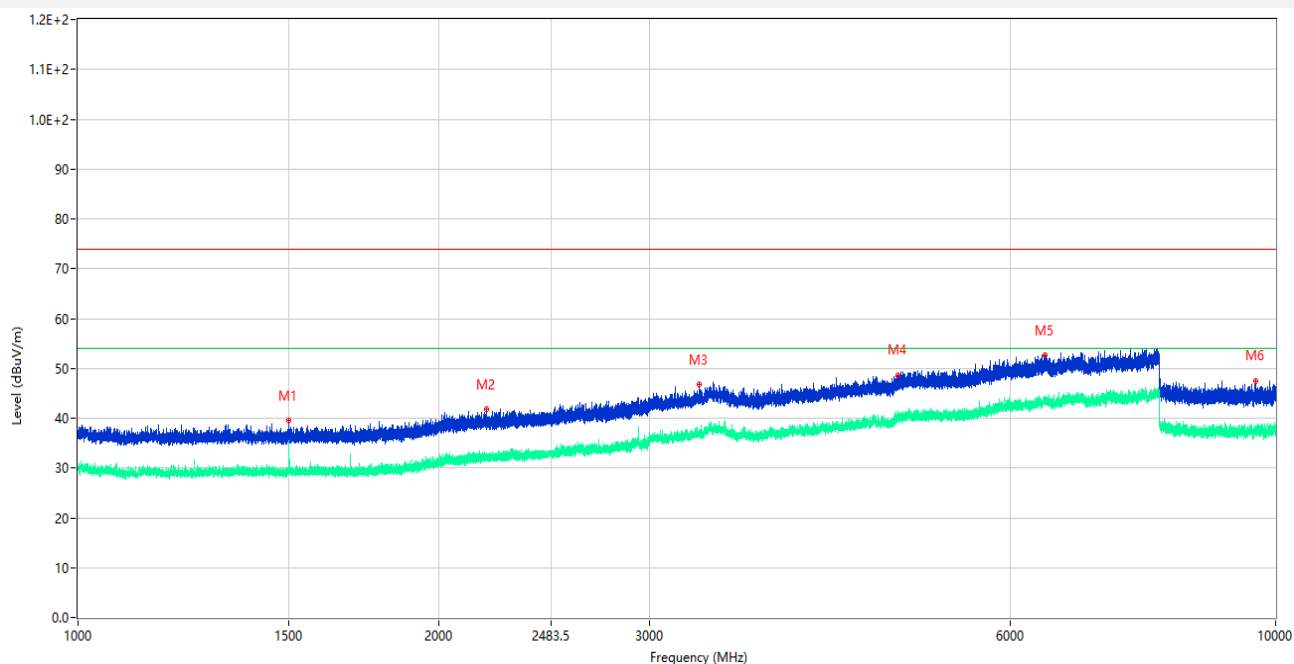
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.200	39.62	-16.13	74.0	34.38	Peak	175.00	150	Vertical	Pass
1**	1500.200	35.50	-16.13	54.0	18.50	AV	175.00	150	Vertical	Pass
2	2043.300	41.65	-13.36	74.0	32.35	Peak	281.00	150	Vertical	Pass
2**	2043.300	32.32	-13.36	54.0	21.68	AV	281.00	150	Vertical	Pass
3	3085.750	45.12	-7.47	74.0	28.88	Peak	185.00	150	Vertical	Pass
3**	3085.750	36.14	-7.47	54.0	17.86	AV	185.00	150	Vertical	Pass
4	4584.750	49.28	-3.38	74.0	24.72	Peak	230.00	150	Vertical	Pass
4**	4584.750	39.38	-3.38	54.0	14.62	AV	230.00	150	Vertical	Pass
5	6837.750	54.17	0.90	74.0	19.83	Peak	213.00	150	Vertical	Pass
5**	6837.750	43.81	0.90	54.0	10.19	AV	213.00	150	Vertical	Pass
6	9658.463	47.81	-3.27	74.0	26.19	Peak	145.00	150	Vertical	Pass
6**	9658.463	37.55	-3.27	54.0	16.45	AV	145.00	150	Vertical	Pass

MIDDLE CHANNEL 1 GHz to 12.75 GHz, ANT H



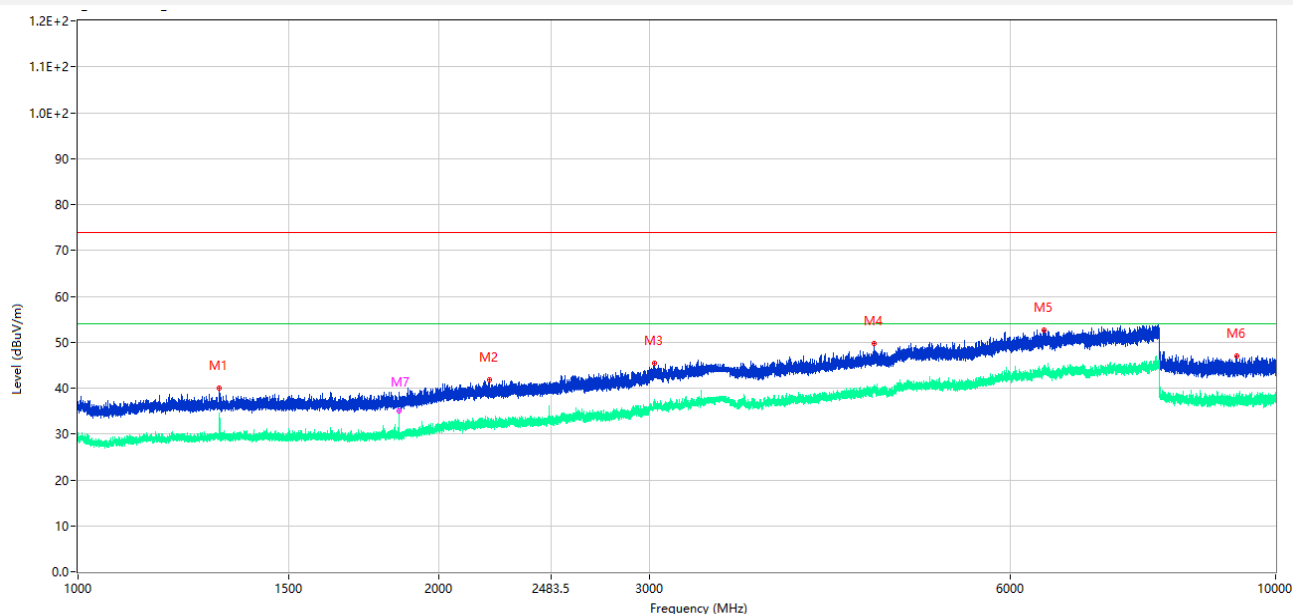
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.300	39.11	-15.82	74.0	34.89	Peak	357.00	150	Horizontal	Pass
1**	1312.300	33.15	-15.82	54.0	20.85	AV	357.00	150	Horizontal	Pass
2	2042.700	40.96	-13.34	74.0	33.04	Peak	123.00	150	Horizontal	Pass
2**	2042.700	31.63	-13.34	54.0	22.37	AV	123.00	150	Horizontal	Pass
3	3441.500	48.09	-5.32	74.0	25.91	Peak	2.00	150	Horizontal	Pass
3**	3441.500	39.81	-5.32	54.0	14.19	AV	2.00	150	Horizontal	Pass
4	5007.750	50.17	-2.23	74.0	23.83	Peak	248.00	150	Horizontal	Pass
4**	5007.750	40.98	-2.23	54.0	13.02	AV	248.00	150	Horizontal	Pass
5	6809.500	53.23	0.32	74.0	20.77	Peak	117.00	150	Horizontal	Pass
5**	6809.500	43.33	0.32	54.0	10.67	AV	117.00	150	Horizontal	Pass
6	9540.425	47.20	-3.03	74.0	26.80	Peak	286.00	150	Horizontal	Pass
6**	9540.425	37.54	-3.03	54.0	16.46	AV	286.00	150	Horizontal	Pass

MIDDLE CHANNEL 1 GHz to 12.75 GHz, ANT V



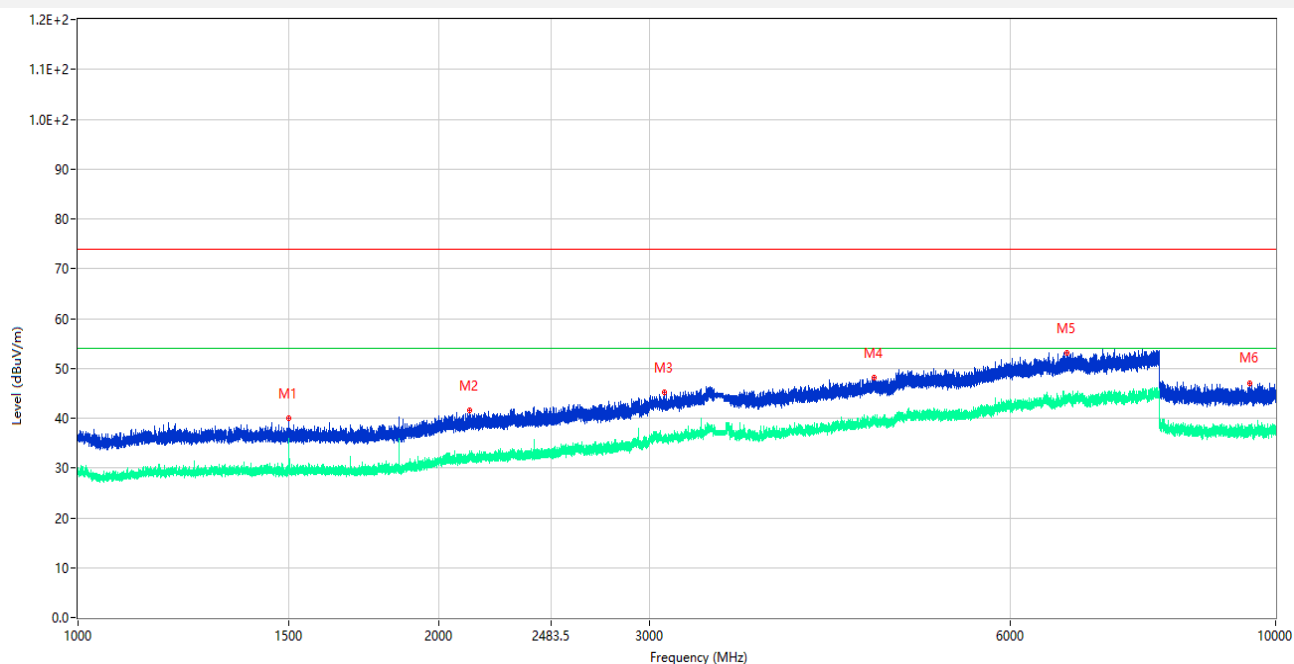
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.300	39.51	-16.13	74.0	34.49	Peak	133.00	150	Vertical	Pass
1**	1500.300	35.53	-16.13	54.0	18.47	AV	133.00	150	Vertical	Pass
2	2193.200	41.89	-13.34	74.0	32.11	Peak	147.00	150	Vertical	Pass
2**	2193.200	31.71	-13.34	54.0	22.29	AV	147.00	150	Vertical	Pass
3	3300.000	46.68	-6.91	74.0	27.32	Peak	2.00	150	Vertical	Pass
3**	3300.000	36.55	-6.91	54.0	17.45	AV	2.00	150	Vertical	Pass
4	4835.500	48.68	-2.13	74.0	25.32	Peak	82.00	150	Vertical	Pass
4**	4835.500	40.44	-2.13	54.0	13.56	AV	82.00	150	Vertical	Pass
5	6415.500	52.65	0.25	74.0	21.35	Peak	0.00	150	Vertical	Pass
5**	6415.500	43.01	0.25	54.0	10.99	AV	0.00	150	Vertical	Pass
6	9615.950	47.35	-3.40	74.0	26.65	Peak	262.00	150	Vertical	Pass
6**	9615.950	37.27	-3.40	54.0	16.73	AV	262.00	150	Vertical	Pass

HIGH CHANNEL 1 GHz to 12.75 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.200	39.93	-15.81	74.0	34.07	Peak	78.00	150	Horizontal	Pass
1**	1312.200	32.52	-15.81	54.0	21.48	AV	78.00	150	Horizontal	Pass
2	2207.700	41.84	-13.31	74.0	32.16	Peak	100.00	150	Horizontal	Pass
2**	2207.700	31.73	-13.31	54.0	22.27	AV	100.00	150	Horizontal	Pass
3	3032.000	45.48	-7.91	74.0	28.52	Peak	0.00	150	Horizontal	Pass
3**	3032.000	35.76	-7.91	54.0	18.24	AV	0.00	150	Horizontal	Pass
4	4625.250	49.65	-2.64	74.0	24.35	Peak	1.00	150	Horizontal	Pass
4**	4625.250	39.31	-2.64	54.0	14.69	AV	1.00	150	Horizontal	Pass
5	6412.500	52.64	0.25	74.0	21.36	Peak	27.00	150	Horizontal	Pass
5**	6412.500	44.44	0.25	54.0	9.56	AV	27.00	150	Horizontal	Pass
6	9273.000	47.05	-5.05	74.0	26.95	Peak	351.00	150	Horizontal	Pass
6**	9273.000	37.00	-5.05	54.0	17.00	AV	351.00	150	Horizontal	Pass
7	1854.600	39.10	-15.82	74.0	34.90	Peak	142.00	150	Horizontal	Pass
7**	1854.600	34.97	-15.82	54.0	19.03	AV	142.00	150	Horizontal	Pass

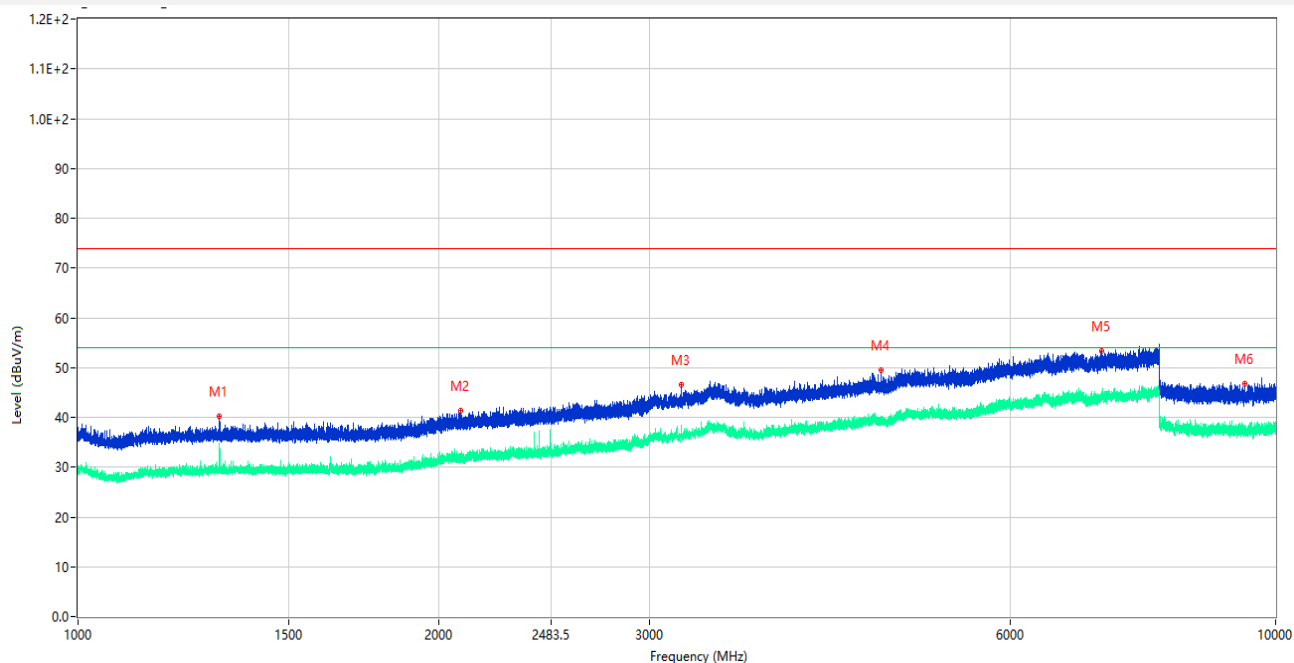
HIGH CHANNEL 1 GHz to 12.75 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.100	40.07	-16.13	74.0	33.93	Peak	14.00	150	Vertical	Pass
1**	1500.100	34.81	-16.13	54.0	19.19	AV	14.00	150	Vertical	Pass
2	2123.300	41.57	-13.28	74.0	32.43	Peak	246.00	150	Vertical	Pass
2**	2123.300	31.93	-13.28	54.0	22.07	AV	246.00	150	Vertical	Pass
3	3088.500	45.18	-7.26	74.0	28.82	Peak	248.00	150	Vertical	Pass
3**	3088.500	36.09	-7.26	54.0	17.91	AV	248.00	150	Vertical	Pass
4	4620.750	48.11	-2.80	74.0	25.89	Peak	344.00	150	Vertical	Pass
4**	4620.750	39.80	-2.80	54.0	14.20	AV	344.00	150	Vertical	Pass
5	6694.750	53.14	0.10	74.0	20.86	Peak	353.00	150	Vertical	Pass
5**	6694.750	43.28	0.10	54.0	10.72	AV	353.00	150	Vertical	Pass
6	9520.713	46.90	-2.82	74.0	27.10	Peak	142.00	150	Vertical	Pass
6**	9520.713	37.51	-2.82	54.0	16.49	AV	142.00	150	Vertical	Pass

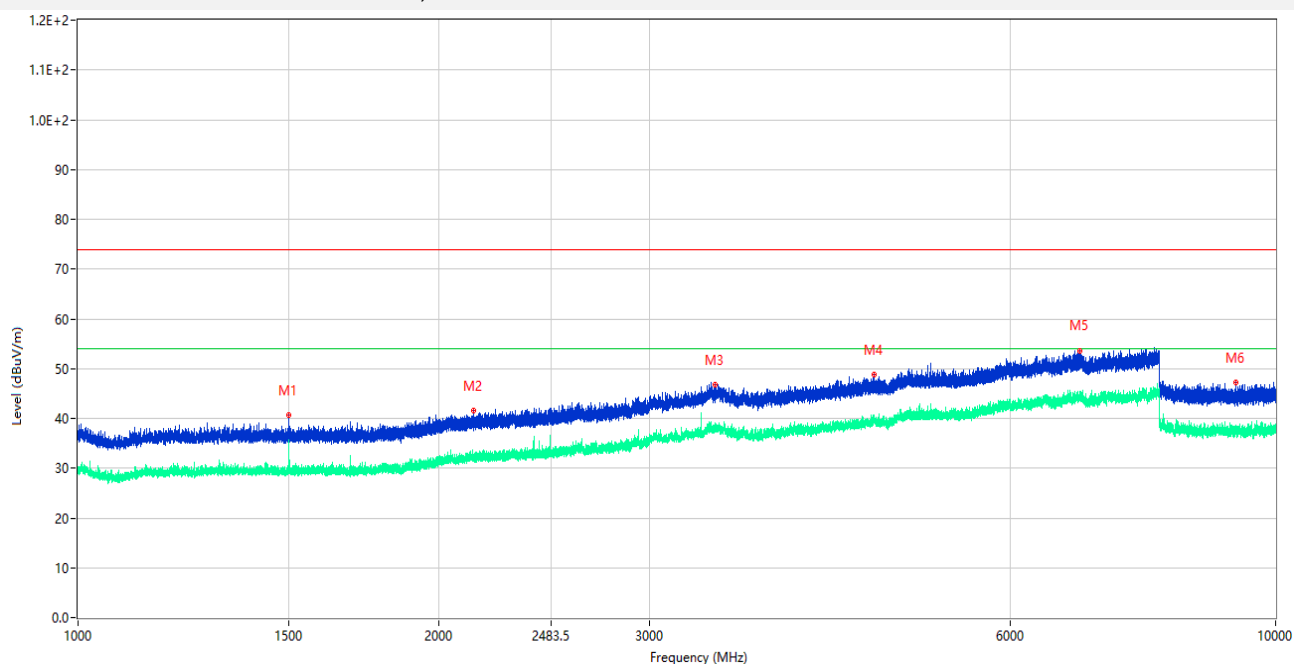
Internal Antenna

LOW CHANNEL 1 GHz to 12.75 GHz, ANT H



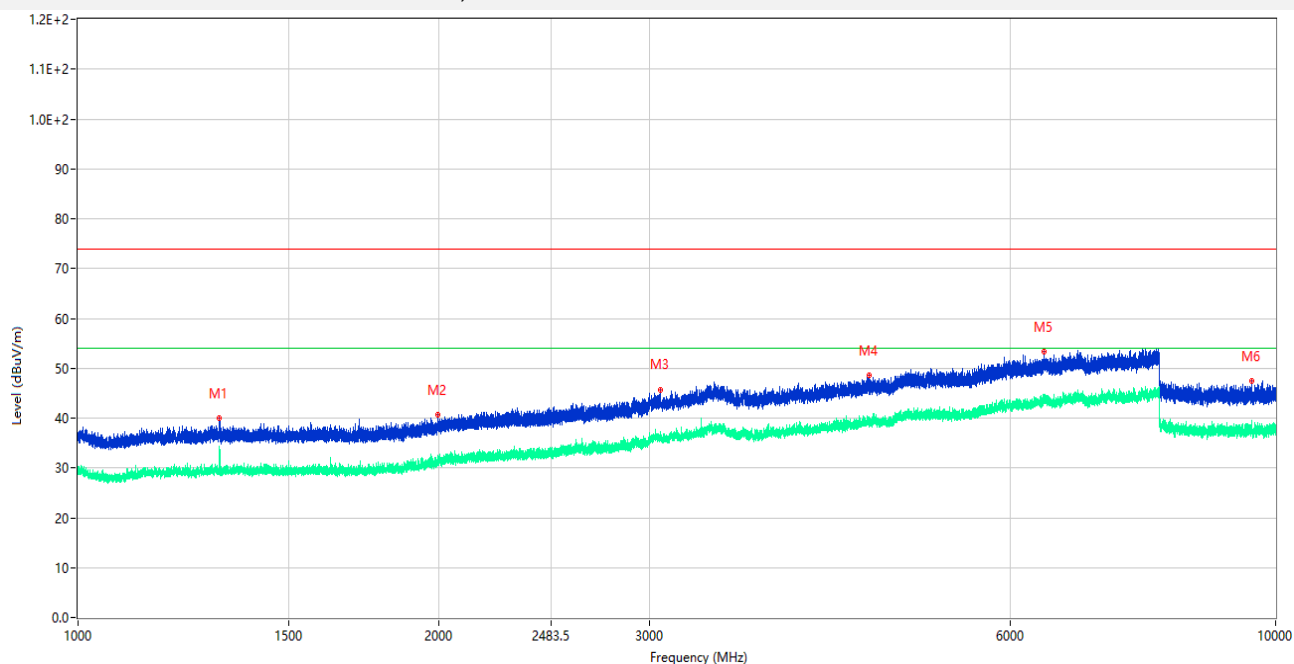
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.500	40.17	-15.82	74.0	33.83	Peak	59.00	150	Horizontal	Pass
1**	1312.500	34.42	-15.82	54.0	19.58	AV	59.00	150	Horizontal	Pass
2	2088.200	41.28	-13.69	74.0	32.72	Peak	14.00	150	Horizontal	Pass
2**	2088.200	31.66	-13.69	54.0	22.34	AV	14.00	150	Horizontal	Pass
3	3187.500	46.52	-7.58	74.0	27.48	Peak	353.00	150	Horizontal	Pass
3**	3187.500	37.43	-7.58	54.0	16.57	AV	353.00	150	Horizontal	Pass
4	4682.500	49.52	-3.72	74.0	24.48	Peak	47.00	150	Horizontal	Pass
4**	4682.500	39.40	-3.72	54.0	14.60	AV	47.00	150	Horizontal	Pass
5	7153.500	53.30	0.13	74.0	20.70	Peak	297.00	150	Horizontal	Pass
5**	7153.500	44.95	0.13	54.0	9.05	AV	297.00	150	Horizontal	Pass
6	9430.462	46.68	-4.21	74.0	27.32	Peak	285.00	150	Horizontal	Pass
6**	9430.462	36.51	-4.21	54.0	17.49	AV	285.00	150	Horizontal	Pass

LOW CHANNEL 1 GHz to 12.75 GHz, ANT V



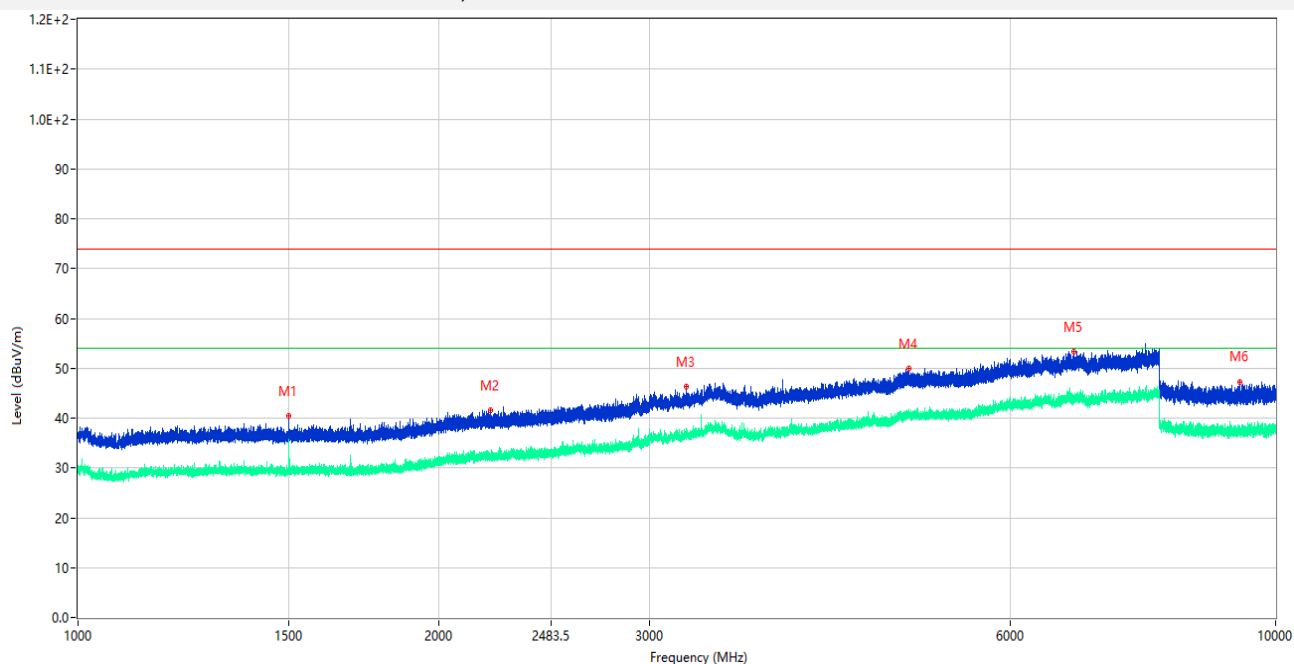
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.300	40.57	-16.13	74.0	33.43	Peak	270.00	150	Vertical	Pass
1**	1500.300	35.63	-16.13	54.0	18.37	AV	270.00	150	Vertical	Pass
2	2139.300	41.52	-13.74	74.0	32.48	Peak	132.00	150	Vertical	Pass
2**	2139.300	32.21	-13.74	54.0	21.79	AV	132.00	150	Vertical	Pass
3	3402.250	46.71	-5.57	74.0	27.29	Peak	360.00	150	Vertical	Pass
3**	3402.250	38.27	-5.57	54.0	15.73	AV	360.00	150	Vertical	Pass
4	4624.000	48.78	-2.64	74.0	25.22	Peak	29.00	150	Vertical	Pass
4**	4624.000	40.31	-2.64	54.0	13.69	AV	29.00	150	Vertical	Pass
5	6869.000	53.57	0.89	74.0	20.43	Peak	229.00	150	Vertical	Pass
5**	6869.000	44.33	0.89	54.0	9.67	AV	229.00	150	Vertical	Pass
6	9268.250	47.13	-5.20	74.0	26.87	Peak	358.00	150	Vertical	Pass
6**	9268.250	37.30	-5.20	54.0	16.70	AV	358.00	150	Vertical	Pass

MIDDLE CHANNEL 1 GHz to 12.75 GHz, ANT H



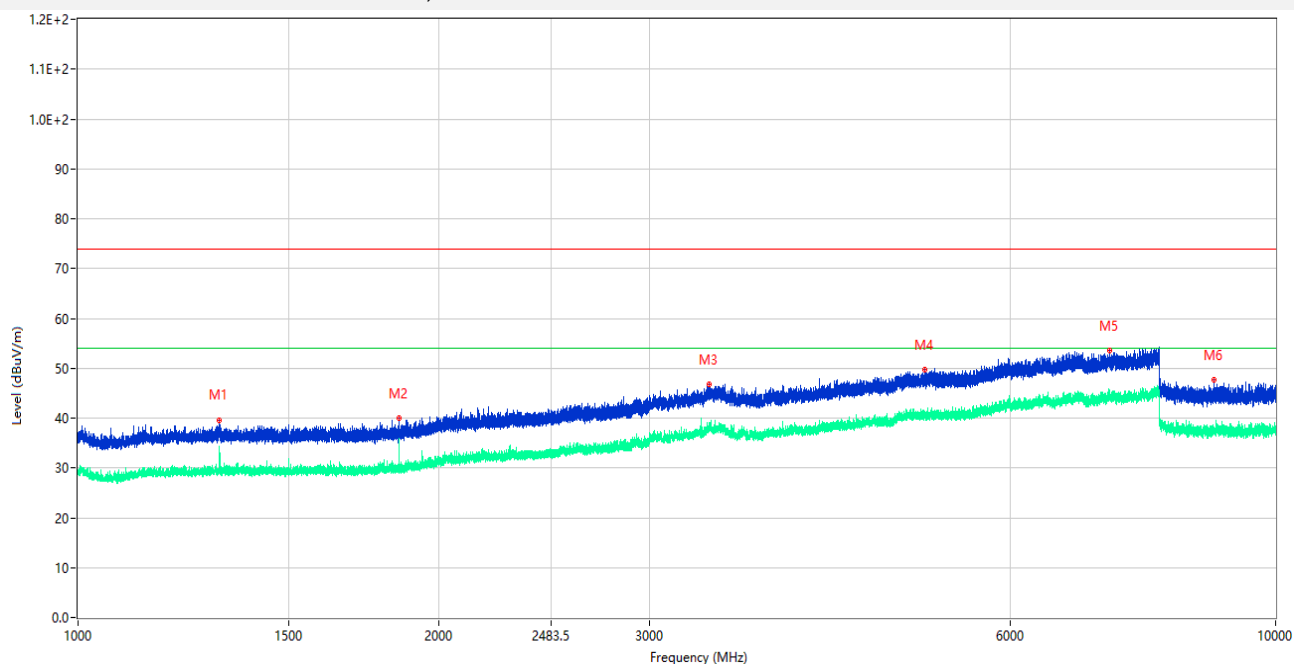
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.800	39.93	-15.83	74.0	34.07	Peak	44.00	150	Horizontal	Pass
1**	1312.800	34.12	-15.83	54.0	19.88	AV	44.00	150	Horizontal	Pass
2	1995.900	40.67	-14.51	74.0	33.33	Peak	0.00	150	Horizontal	Pass
2**	1995.900	31.40	-14.51	54.0	22.60	AV	0.00	150	Horizontal	Pass
3	3063.250	45.74	-7.39	74.0	28.26	Peak	360.00	150	Horizontal	Pass
3**	3063.250	36.12	-7.39	54.0	17.88	AV	360.00	150	Horizontal	Pass
4	4580.750	48.54	-3.37	74.0	25.46	Peak	360.00	150	Horizontal	Pass
4**	4580.750	39.61	-3.37	54.0	14.39	AV	360.00	150	Horizontal	Pass
5	6407.250	53.29	0.29	74.0	20.71	Peak	14.00	150	Horizontal	Pass
5**	6407.250	43.76	0.29	54.0	10.24	AV	14.00	150	Horizontal	Pass
6	9543.987	47.35	-2.72	74.0	26.65	Peak	119.00	150	Horizontal	Pass
6**	9543.987	38.28	-2.72	54.0	15.72	AV	119.00	150	Horizontal	Pass

MIDDLE CHANNEL 1 GHz to 12.75 GHz, ANT V



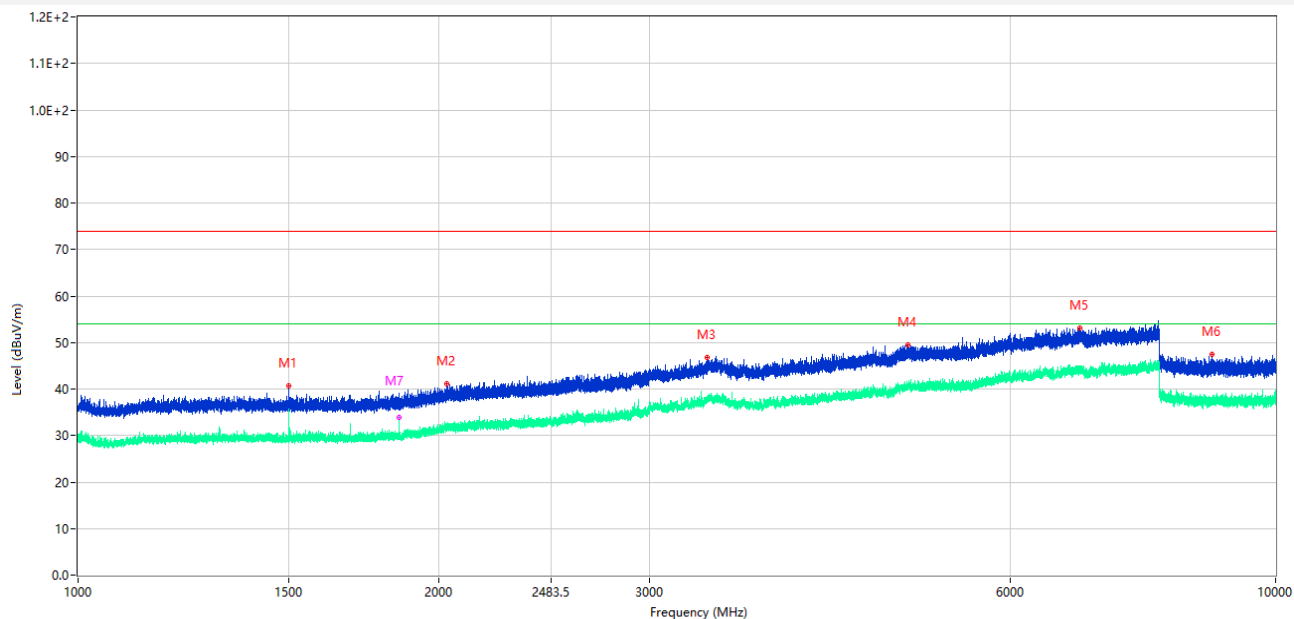
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.400	40.50	-16.13	74.0	33.50	Peak	130.00	150	Vertical	Pass
1**	1500.400	35.21	-16.13	54.0	18.79	AV	130.00	150	Vertical	Pass
2	2209.000	41.63	-13.30	74.0	32.37	Peak	116.00	150	Vertical	Pass
2**	2209.000	32.05	-13.30	54.0	21.95	AV	116.00	150	Vertical	Pass
3	3219.250	46.35	-6.42	74.0	27.65	Peak	129.00	150	Vertical	Pass
3**	3219.250	36.39	-6.42	54.0	17.61	AV	129.00	150	Vertical	Pass
4	4938.250	49.90	-1.90	74.0	24.10	Peak	278.00	150	Vertical	Pass
4**	4938.250	40.49	-1.90	54.0	13.51	AV	278.00	150	Vertical	Pass
5	6789.000	53.32	0.48	74.0	20.68	Peak	196.00	150	Vertical	Pass
5**	6789.000	44.02	0.48	54.0	9.98	AV	196.00	150	Vertical	Pass
6	9339.263	47.15	-5.16	74.0	26.85	Peak	47.00	150	Vertical	Pass
6**	9339.263	37.83	-5.16	54.0	16.17	AV	47.00	150	Vertical	Pass

HIGH CHANNEL 1 GHz to 12.75 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1312.400	39.65	-15.82	74.0	34.35	Peak	29.00	150	Horizontal	Pass
1**	1312.400	33.16	-15.82	54.0	20.84	AV	29.00	150	Horizontal	Pass
2	1854.300	39.91	-15.82	74.0	34.09	Peak	57.00	150	Horizontal	Pass
2**	1854.300	35.01	-15.82	54.0	18.99	AV	57.00	150	Horizontal	Pass
3	3363.000	46.68	-5.43	74.0	27.32	Peak	0.00	150	Horizontal	Pass
3**	3363.000	37.25	-5.43	54.0	16.75	AV	0.00	150	Horizontal	Pass
4	5092.500	49.77	-2.35	74.0	24.23	Peak	215.00	150	Horizontal	Pass
4**	5092.500	40.68	-2.35	54.0	13.32	AV	215.00	150	Horizontal	Pass
5	7267.250	53.63	0.48	74.0	20.37	Peak	65.00	150	Horizontal	Pass
5**	7267.250	44.12	0.48	54.0	9.88	AV	65.00	150	Horizontal	Pass
6	8882.312	47.58	-4.62	74.0	26.42	Peak	360.00	150	Horizontal	Pass
6**	8882.312	37.96	-4.62	54.0	16.04	AV	360.00	150	Horizontal	Pass

HIGH CHANNEL 1 GHz to 12.75 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.100	40.74	-16.13	74.0	33.26	Peak	119.00	150	Vertical	Pass
1**	1500.100	35.51	-16.13	54.0	18.49	AV	119.00	150	Vertical	Pass
2	2030.200	41.21	-13.61	74.0	32.79	Peak	277.00	150	Vertical	Pass
2**	2030.200	31.83	-13.61	54.0	22.17	AV	277.00	150	Vertical	Pass
3	3353.750	46.79	-6.38	74.0	27.21	Peak	178.00	150	Vertical	Pass
3**	3353.750	37.30	-6.38	54.0	16.70	AV	178.00	150	Vertical	Pass
4	4927.250	49.40	-2.29	74.0	24.60	Peak	28.00	150	Vertical	Pass
4**	4927.250	40.30	-2.29	54.0	13.70	AV	28.00	150	Vertical	Pass
5	6863.500	53.17	0.94	74.0	20.83	Peak	45.00	150	Vertical	Pass
5**	6863.500	44.19	0.94	54.0	9.81	AV	45.00	150	Vertical	Pass
6	8842.888	47.43	-4.61	74.0	26.57	Peak	28.00	150	Vertical	Pass
6**	8842.888	37.34	-4.61	54.0	16.66	AV	28.00	150	Vertical	Pass
7	1854.500	38.15	-15.82	74.0	35.85	Peak	264.00	150	Vertical	Pass
7**	1854.500	33.97	-15.82	54.0	20.03	AV	264.00	150	Vertical	Pass

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

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

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

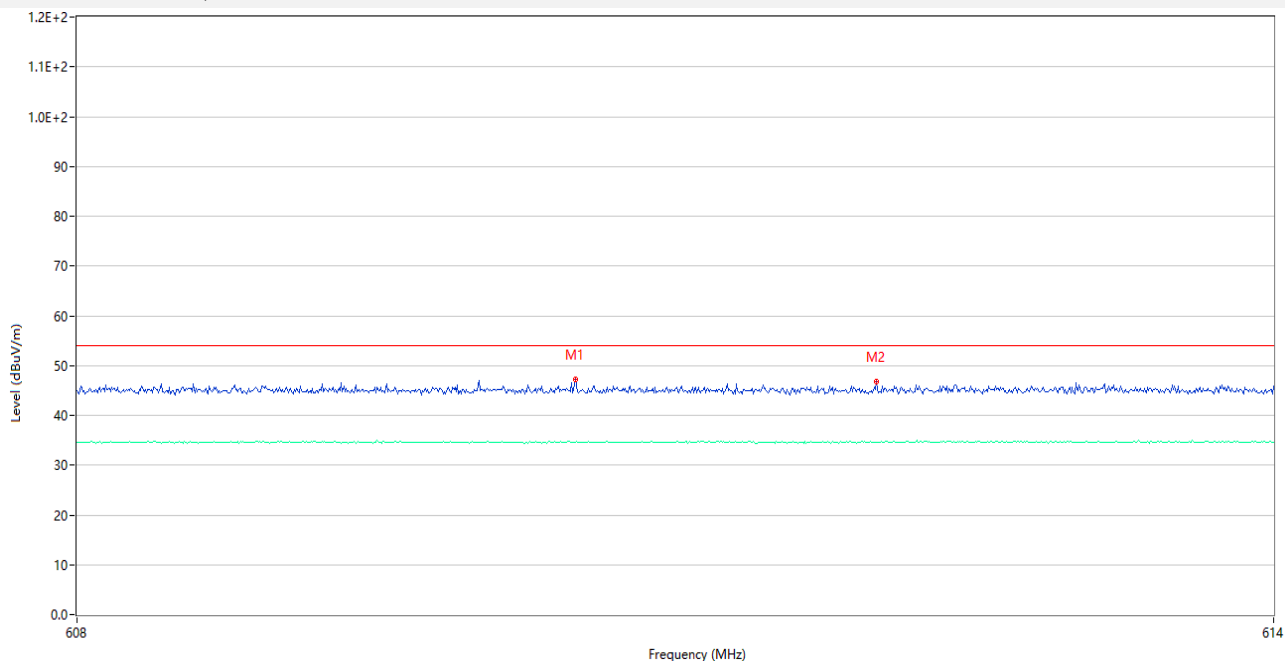
Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

Test Data and Plots

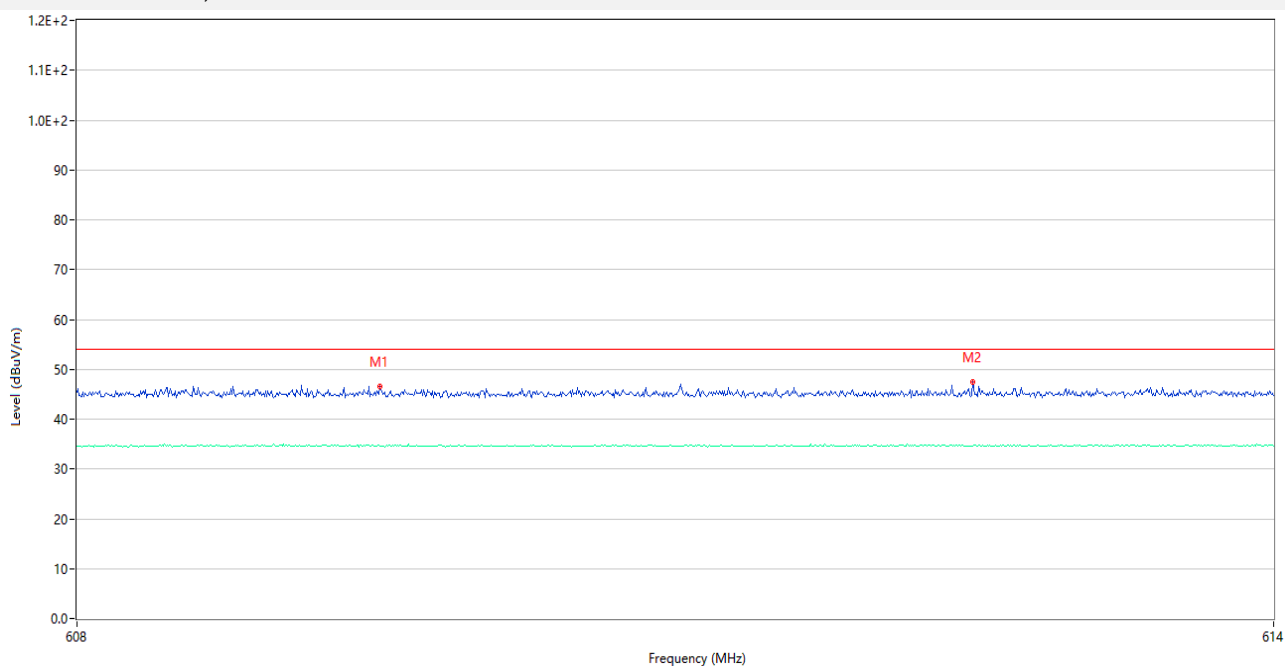
External Antenna

LOW CHANNEL, ANT H



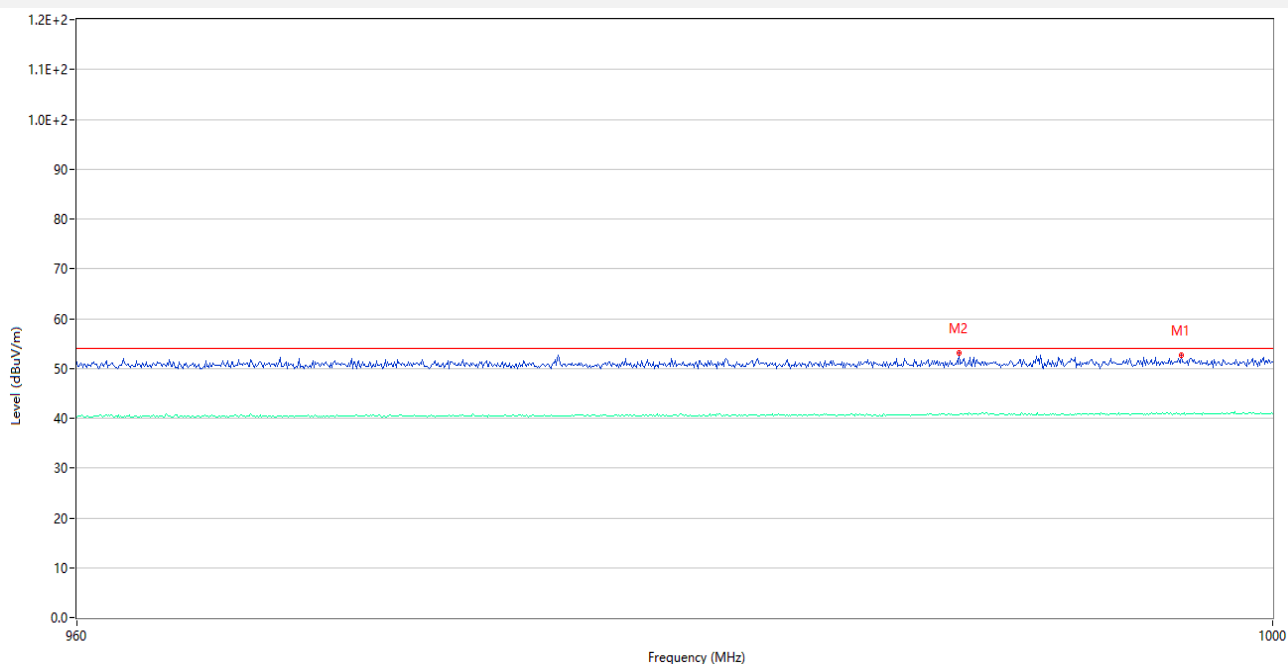
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.490	47.13	-4.71	54.0	6.87	Peak	296.00	150	Horizontal	Pass
1**	610.490	34.66	-4.71	--	-34.66	AV	296.00	150	Horizontal	N/A
2	612.002	46.82	-4.69	54.0	7.18	Peak	325.00	150	Horizontal	Pass
2**	612.002	34.56	-4.69	--	-34.56	AV	325.00	150	Horizontal	N/A

LOW CHANNEL, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	609.512	46.60	-4.72	54.0	7.40	Peak	218.00	150	Vertical	Pass
1**	609.512	34.51	-4.72	--	-34.51	AV	218.00	150	Vertical	N/A
2	612.488	47.47	-4.68	54.0	6.53	Peak	13.00	150	Vertical	Pass
2**	612.488	34.59	-4.68	--	-34.59	AV	13.00	150	Vertical	N/A

HIGH CHANNEL, ANT H



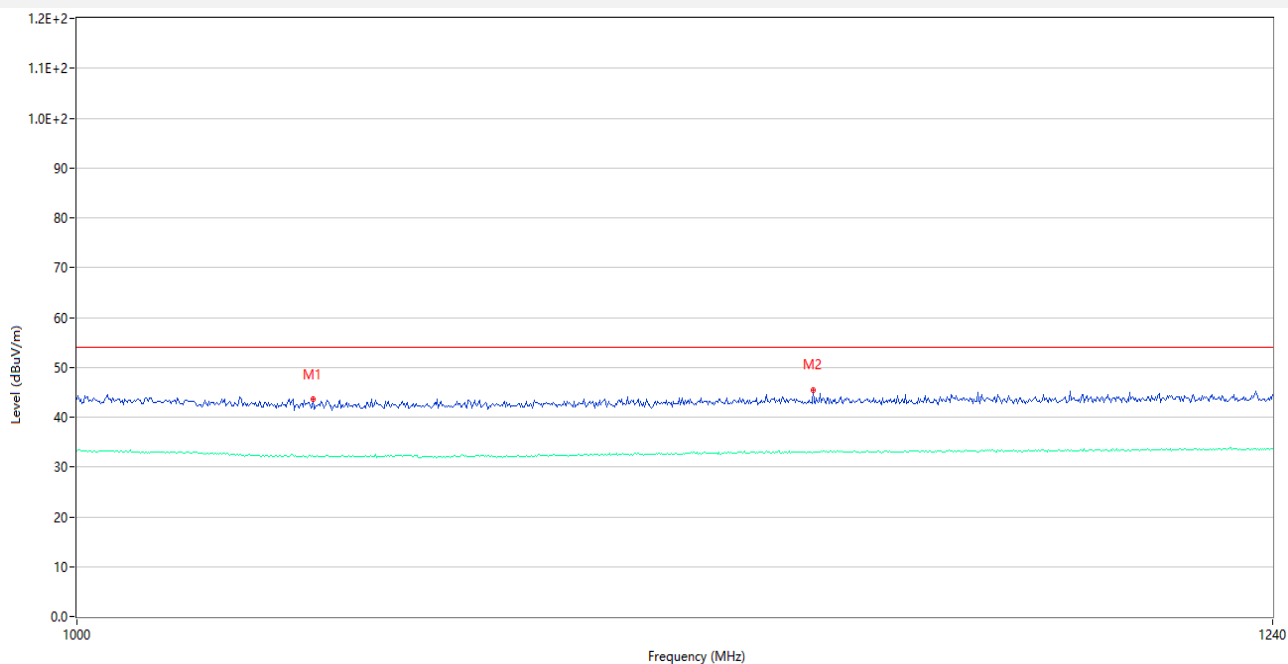
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	996.880	52.56	1.91	54.0	1.44	Peak	353.00	150	Horizontal	Pass
1**	996.880	40.88	1.91	--	-40.88	AV	353.00	150	Horizontal	N/A
2	989.360	53.11	1.63	54.0	0.89	Peak	76.00	150	Horizontal	Pass
2**	989.360	40.71	1.63	--	-40.71	AV	76.00	150	Horizontal	N/A

HIGH CHANNEL, ANT V



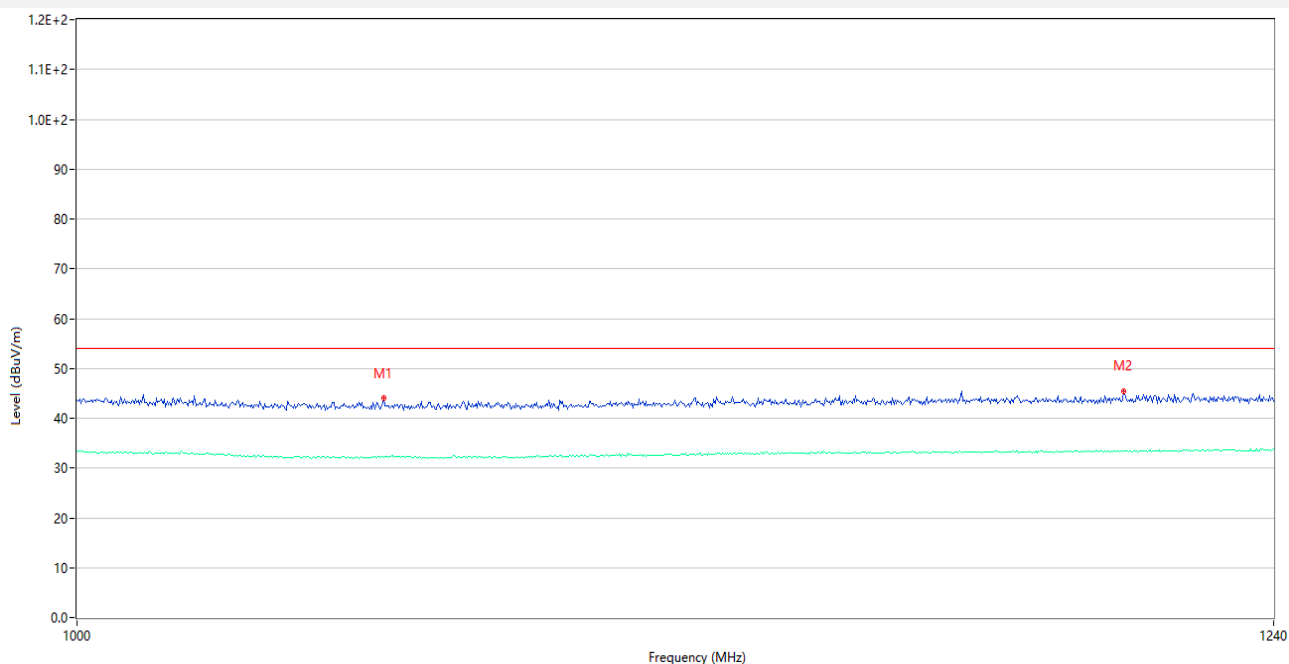
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	999.600	53.60	1.95	54.0	0.40	Peak	40.00	150	Vertical	Pass
1**	999.600	40.82	1.95	--	-40.82	AV	40.00	150	Vertical	N/A
2	974.000	52.77	1.42	54.0	1.23	Peak	216.00	150	Vertical	Pass
2**	974.000	40.51	1.42	--	-40.51	AV	216.00	150	Vertical	N/A

HIGH CHANNEL, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1043.440	43.55	-10.54	54.0	10.45	Peak	310.00	150	Horizontal	Pass
1**	1043.440	32.09	-10.54	--	-32.09	AV	310.00	150	Horizontal	N/A
2	1141.600	45.53	-10.81	54.0	8.47	Peak	143.00	150	Horizontal	Pass
2**	1141.600	32.80	-10.81	--	-32.80	AV	143.00	150	Horizontal	N/A

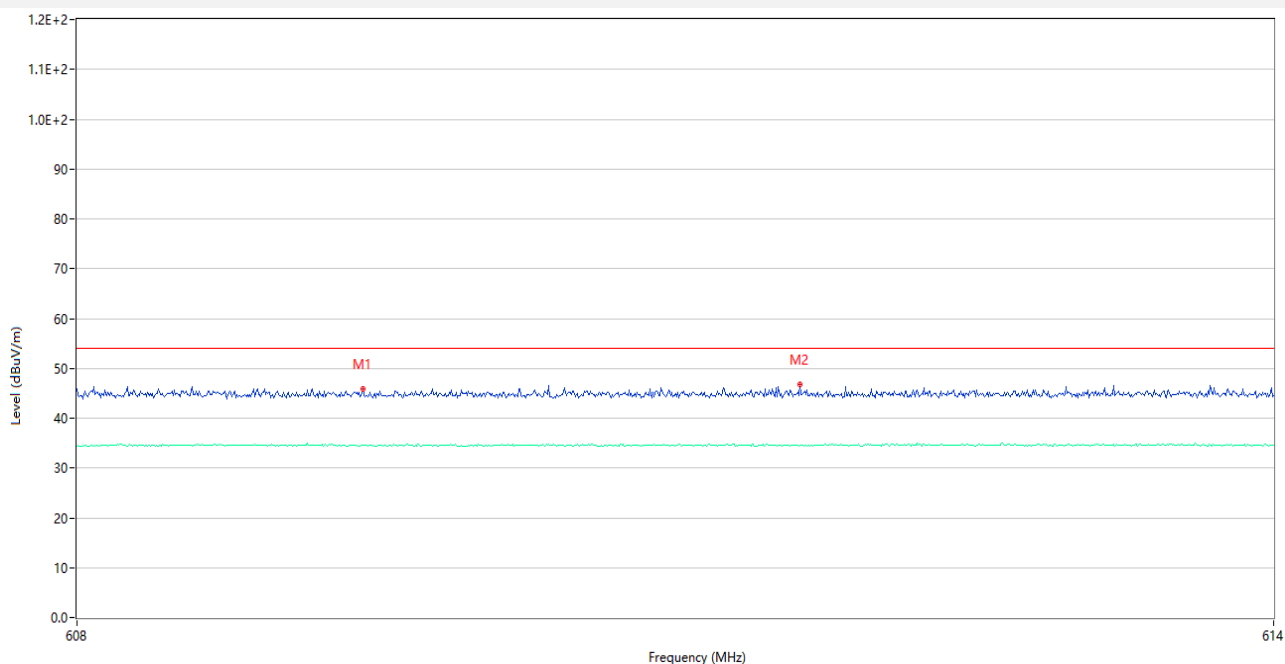
HIGH CHANNEL, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1056.640	44.13	-10.36	54.0	9.87	Peak	360.00	150	Vertical	Pass
1**	1056.640	31.92	-10.36	--	-31.92	AV	360.00	150	Vertical	N/A
2	1207.120	45.39	-10.78	54.0	8.61	Peak	360.00	150	Vertical	Pass
2**	1207.120	33.36	-10.78	--	-33.36	AV	360.00	150	Vertical	N/A

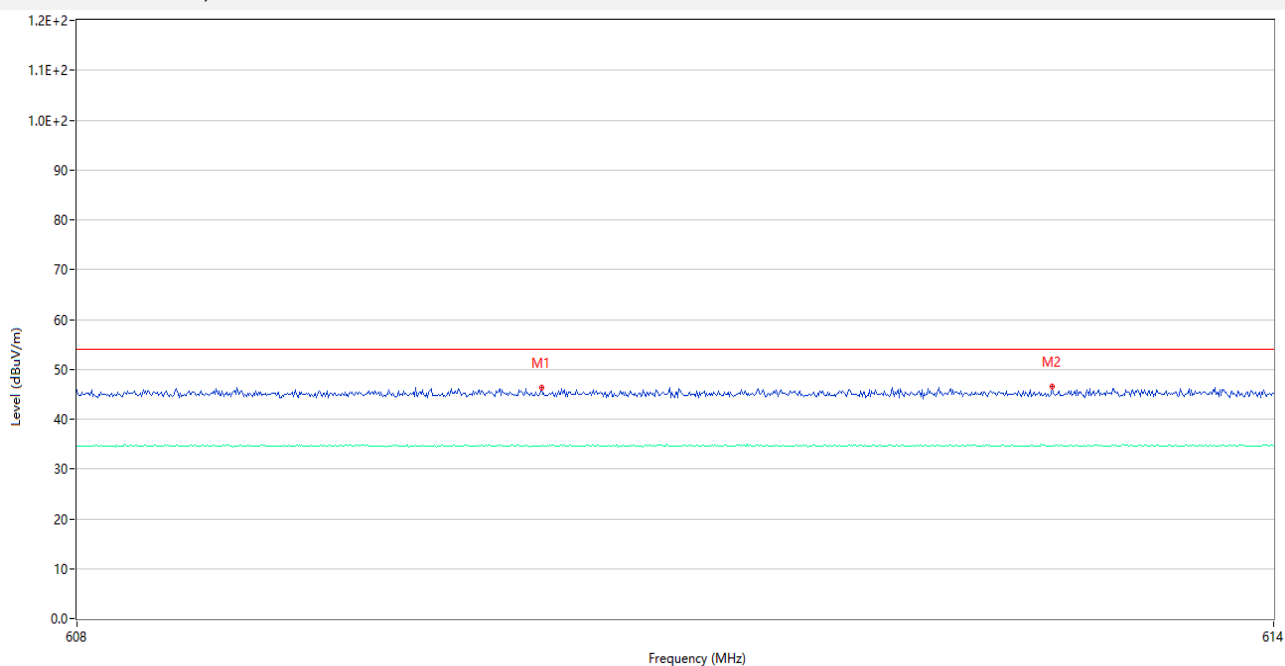
Internal Antenna

LOW CHANNEL, ANT H



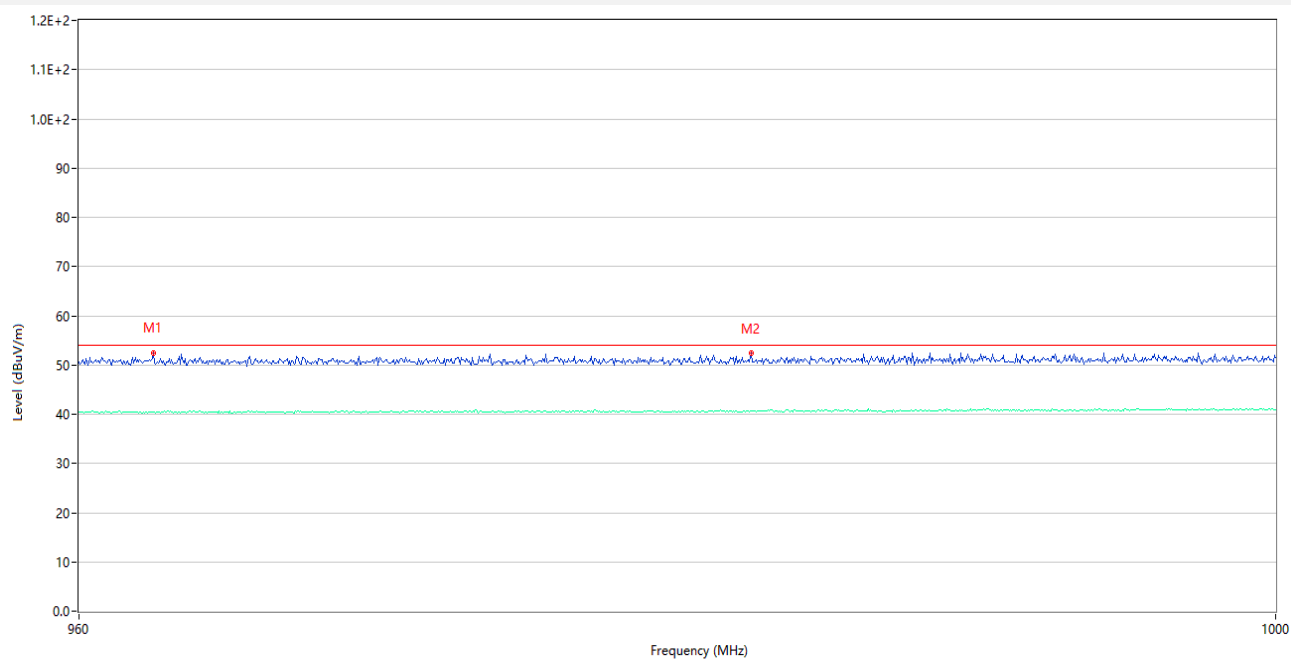
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	609.428	45.87	-4.72	54.0	8.13	Peak	178.00	150	Horizontal	Pass
1**	609.428	34.57	-4.72	--	-34.57	AV	178.00	150	Horizontal	N/A
2	611.618	46.67	-4.73	54.0	7.33	Peak	356.00	150	Horizontal	Pass
2**	611.618	34.61	-4.73	--	-34.61	AV	356.00	150	Horizontal	N/A

LOW CHANNEL, ANT V



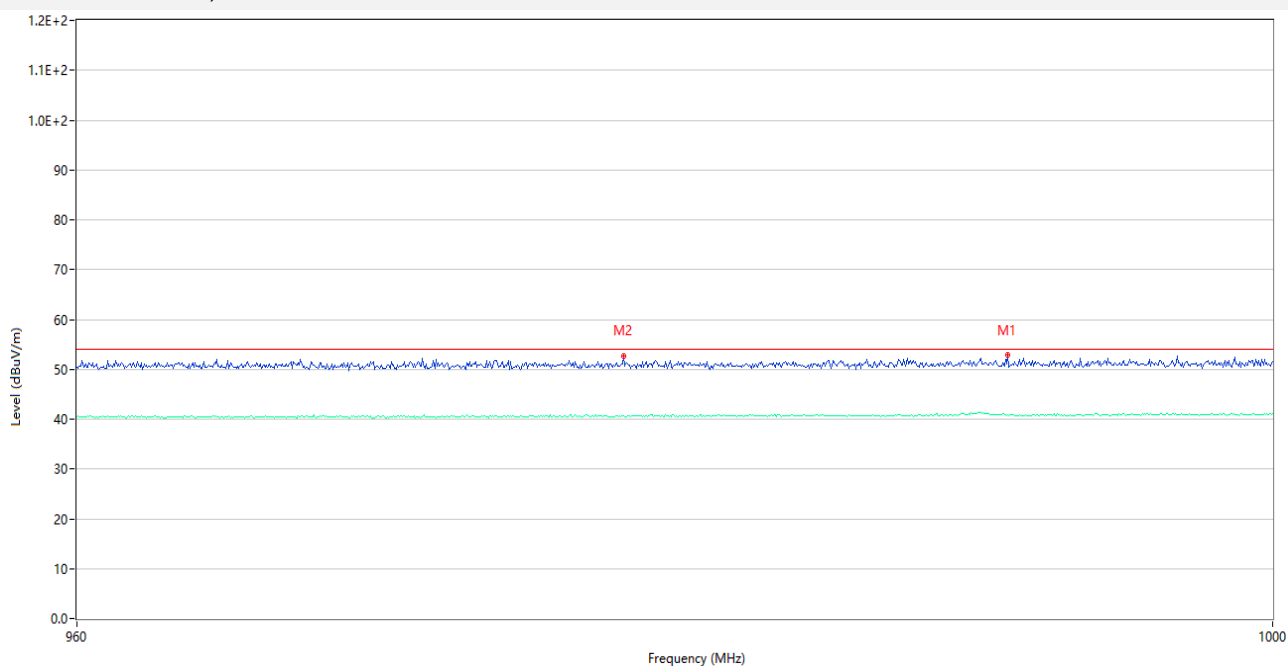
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	610.322	46.23	-4.72	54.0	7.77	Peak	119.00	150	Vertical	Pass
1**	610.322	34.47	-4.72	--	-34.47	AV	119.00	150	Vertical	N/A
2	612.884	46.49	-4.71	54.0	7.51	Peak	290.00	150	Vertical	Pass
2**	612.884	34.53	-4.71	--	-34.53	AV	290.00	150	Vertical	N/A

HIGH CHANNEL, ANT H



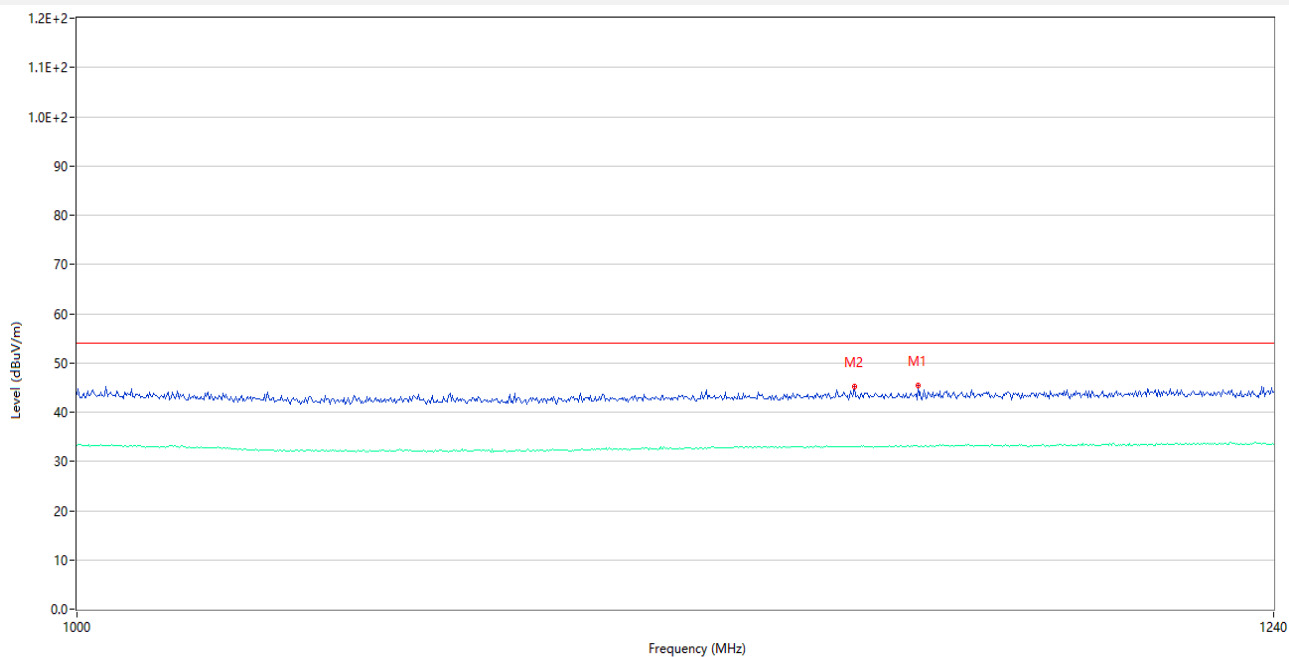
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	962.440	52.52	1.29	54.0	1.48	Peak	204.00	150	Horizontal	Pass
1**	962.440	40.34	1.29	--	-40.34	AV	204.00	150	Horizontal	N/A
2	982.280	52.39	1.50	54.0	1.61	Peak	0.00	150	Horizontal	Pass
2**	982.280	40.57	1.50	--	-40.57	AV	0.00	150	Horizontal	N/A

HIGH CHANNEL, ANT V



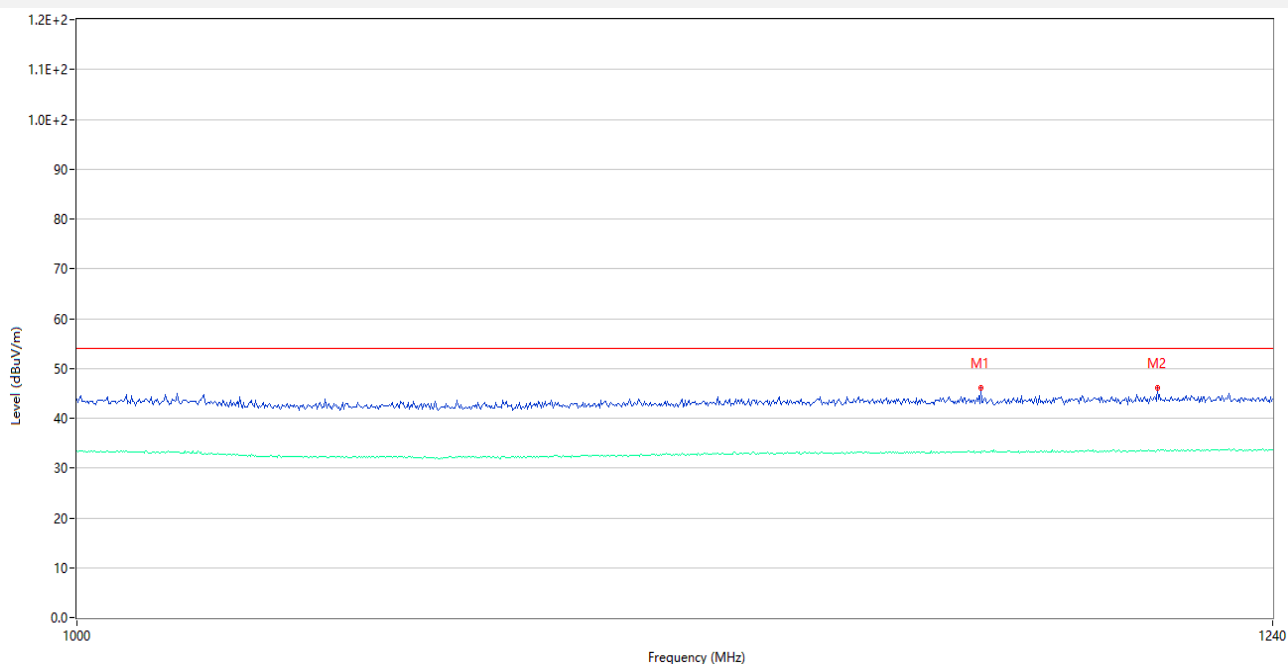
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	991.000	52.91	1.72	54.0	1.09	Peak	230.00	150	Vertical	Pass
1**	991.000	40.77	1.72	--	-40.77	AV	230.00	150	Vertical	N/A
2	978.080	52.56	1.49	54.0	1.44	Peak	295.00	150	Vertical	Pass
2**	978.080	40.71	1.49	--	-40.71	AV	295.00	150	Vertical	N/A

HIGH CHANNEL, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1163.200	45.46	-10.65	54.0	8.54	Peak	360.00	150	Horizontal	Pass
1**	1163.200	33.04	-10.65	--	-33.04	AV	360.00	150	Horizontal	N/A
2	1150.000	45.14	-10.77	54.0	8.86	Peak	17.00	150	Horizontal	Pass
2**	1150.000	32.98	-10.77	--	-32.98	AV	17.00	150	Horizontal	N/A

HIGH CHANNEL, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1176.640	46.05	-10.60	54.0	7.95	Peak	210.00	150	Vertical	Pass
1**	1176.640	33.07	-10.60	--	-33.07	AV	210.00	150	Vertical	N/A
2	1214.560	46.12	-10.82	54.0	7.88	Peak	0.00	150	Vertical	Pass
2**	1214.560	33.63	-10.82	--	-33.63	AV	0.00	150	Vertical	N/A

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24C0017-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C0017-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24C0017-AI.PDF”.

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