

TEST REPORT

Report No.: SHE25070059-03CE

Date: 2025-09-15

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Applicant : Keeson Technology Corporation Limited
Address of Applicant : No.158, Qiumao Road, Wangjiangjing, Xiuzhou district,
Jiaxing, Zhejiang, China

Product Name : REMOTE CONTROL
Brand Name : N/A
Model Name : RC301C, RC301A, RC301B
Sample Acquisition Method : Sent by Client
Sample No. : E25070059-01#01
E25070059-01#02
FCC ID : 2AK23RC301AC

Standards : FCC CFR47 Part 15, Subpart C Section 15.249

Date of Receipt : 2025-07-21
Date of Test : 2025-07-25 ~ 2025-09-15
Date of Issue : 2025-09-15

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	Keeson Technology Corporation Limited
Applicant Company Address	No.158, Qiumao Road, Wangjiangjing, Xiuzhou district, Jiaxing, Zhejiang, China
Contact Person	Jinhua Xu
Telephone	+86 18279170755
Email	Sam.Xu@keeson.com
Manufacturer Company Name	Ergo Intelligent Technology (Jiaxing) Co., Ltd.
Manufacturer Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Factory Company Name	Ergo Intelligent Technology (Jiaxing) Co., Ltd.
Factory Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.

1.3 Details of EUT

Product Name	REMOTE CONTROL
Brand Name	N/A
Test Model Name	RC301C
Series Model Name	RC301A, RC301B
Difference Description	All the same except for the model name, appearance color, the number of buttons and components due to the number of button. (The differences between the RC301A or RC301B series models and the RC301C main test model are: The PCB boards are the same, but the number of buttons is different. The components corresponding to the button function part are different. These components do not affect the RF parameters and will not have an impact on the RF test results.) Refer to the sample photo for details.
FCC ID	2AK23RC301AC
Operation Frequency	2403MHz ~ 2480MHz
Maximum Field Strength	93.63dBuV/m(Peak)@3m

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Number of Channels	78
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Extreme Temperature Range	-10℃~ +40℃
Test Voltage	DC 4.5V supply by battery
Hardware Version	V1.0
Software Version	V1.0
RF power setting in TEST SW	Enter the fixed frequency mode by pressing the key_Default power

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2.403GHz	28	2.430GHz	55	2.457GHz
2	2.404GHz	29	2.431GHz	56	2.458GHz
3	2.405GHz	30	2.432GHz	57	2.459GHz
4	2.406GHz	31	2.433GHz	58	2.460GHz
5	2.407GHz	32	2.434GHz	59	2.461GHz
6	2.408GHz	33	2.435GHz	60	2.462GHz
7	2.409GHz	34	2.436GHz	61	2.463GHz
8	2.410GHz	35	2.437GHz	62	2.464GHz
9	2.411GHz	36	2.438GHz	63	2.465GHz
10	2.412GHz	37	2.439GHz	64	2.466GHz
11	2.413GHz	38	2.440GHz	65	2.467GHz
12	2.414GHz	39	2.441GHz	66	2.468GHz
13	2.415GHz	40	2.442GHz	67	2.469GHz
14	2.416GHz	41	2.443GHz	68	2.470GHz
15	2.417GHz	42	2.444GHz	69	2.471GHz
16	2.418GHz	43	2.445GHz	70	2.472GHz
17	2.419GHz	44	2.446GHz	71	2.473GHz
18	2.420GHz	45	2.447GHz	72	2.474GHz
19	2.421GHz	46	2.448GHz	73	2.475GHz
20	2.422GHz	47	2.449GHz	74	2.476GHz
21	2.423GHz	48	2.450GHz	75	2.477GHz
22	2.424GHz	49	2.451GHz	76	2.478GHz
23	2.425GHz	50	2.452GHz	77	2.479GHz

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24	2.426GHz	51	2.453GHz	78	2.480GHz
25	2.427GHz	52	2.454GHz		
26	2.428GHz	53	2.455GHz		
27	2.429GHz	54	2.456GHz		

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	Part 15.203	PASS
Radiated Emission	FCC Part 15.249(a), 15.209	PASS
Band Edge	FCC Part 15.249(d), 15.209	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15.215(c)	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	N/A ^{note}

Note(s): The EUT is powered by battery (DC 4.5V supply by battery)

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	15-35
Humidity (%RH)	30-60
Barometric Pressure (mbar)	860-1060

Note: Actual values will be recorded during the test.

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2025-06-30	2026-06-29
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2025-06-10	2026-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2025-06-30	2026-06-29
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2025-06-09	2026-06-08
DC Power Supply	ITECH	IT6512A	N/A	2025-06-30	2026-06-29
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2025-03-24	2027-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2025-06-22	2027-06-21
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2025-06-23	2027-06-22
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2025-06-09	2026-06-08
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2025-06-10	2028-06-09
Test Software	BL	BL410_E	Version:1.0.0.117	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	N/A	N/A

2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission		$\pm 1.04\text{dB}$
Radiated Emission	30MHz-1GHz	$\pm 5.00\text{dB}$
	1GHz-40GHz	$\pm 5.46\text{dB}$
Occupied Channel Bandwidth		$\pm 39.26\text{KHz}$

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Enter the fixed frequency mode by pressing the key to control EUT work in continuous transmitting and receiving mode.
Select test channel as below:

Channel	Frequency
The lowest channel(CH1)	2403MHz
The middle channel(CH40)	2442MHz
The highest channel(CH78)	2480MHz

- The basic operation modes are:
- A. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
N/A	N/A	N/A	N/A

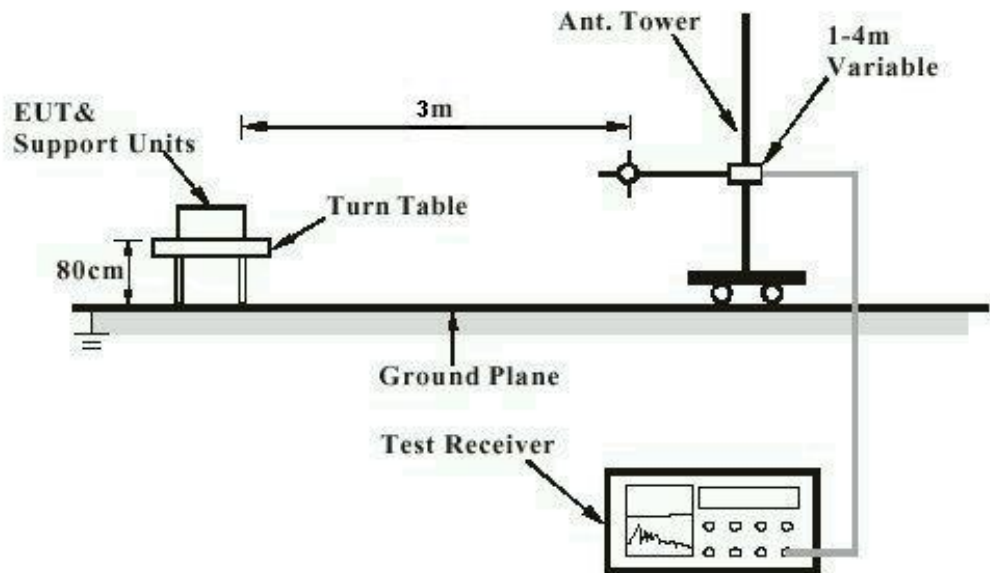
3.3 Support Software

Description	Manufacturer	Software Name
N/A	N/A	N/A

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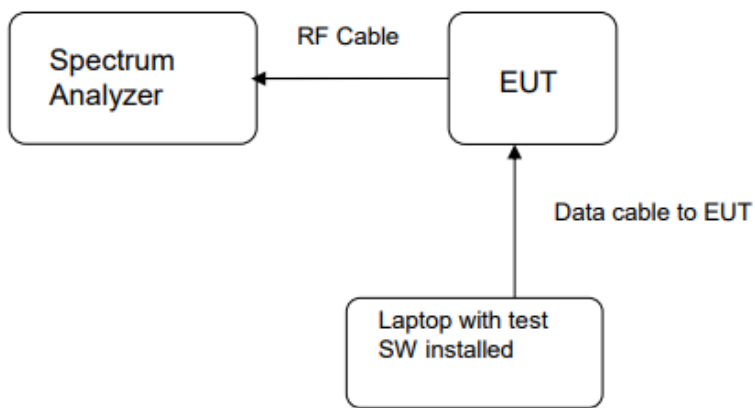
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Configuration for Transmitter Test



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: Part 15.203
Requirement	: 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.

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 0dBi. The antenna is pcb antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.249(a), 15.209
Requirement	: ANSI C63.10-2020
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

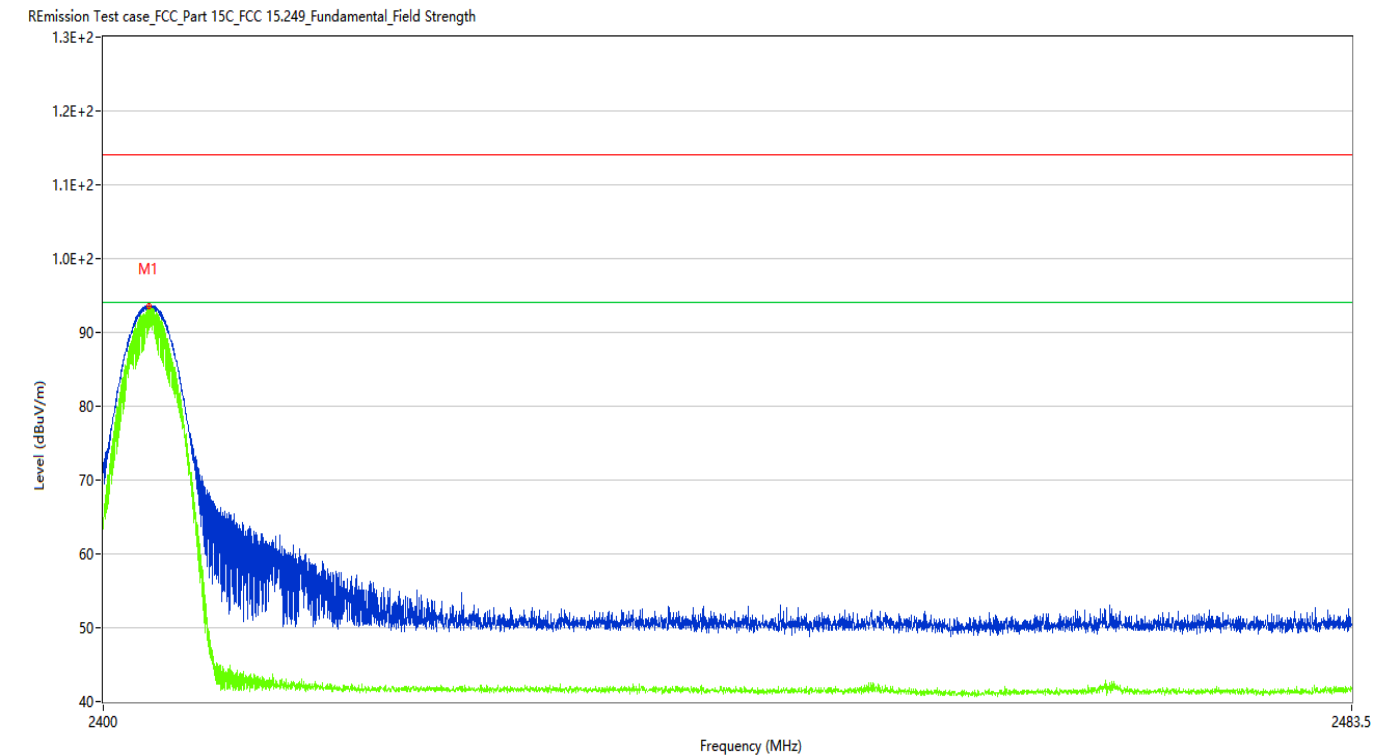
Test Channel	: Low/Middle/High
Operation Mode	: A.i/ii/iii
Ambient temperature	: 23.6°C
Relative humidity	: 44%

Notes

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

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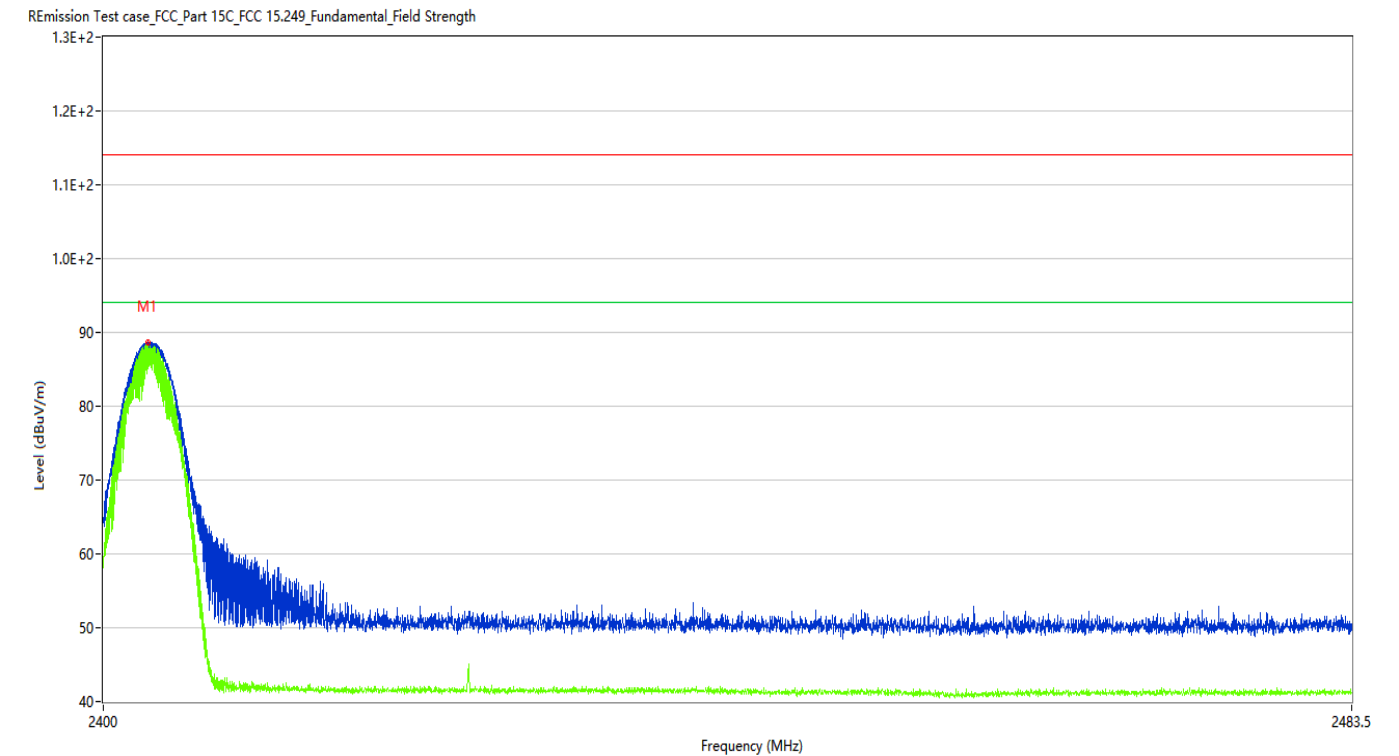
Figure 1: Test plots of Field strength of fundamental, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402.985	93.63	-10.12	114.0	20.37	Peak	174.80	100	Horizontal	Pass
1**	2402.985	91.56	-10.12	94.0	2.44	AV	174.80	100	Horizontal	Pass

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Figure 2: Test plots of Field strength of fundamental, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402.964	88.58	-10.28	114.0	25.42	Peak	83.70	100	Vertical	Pass
1**	2402.964	88.28	-10.28	94.0	5.72	AV	83.70	100	Vertical	Pass

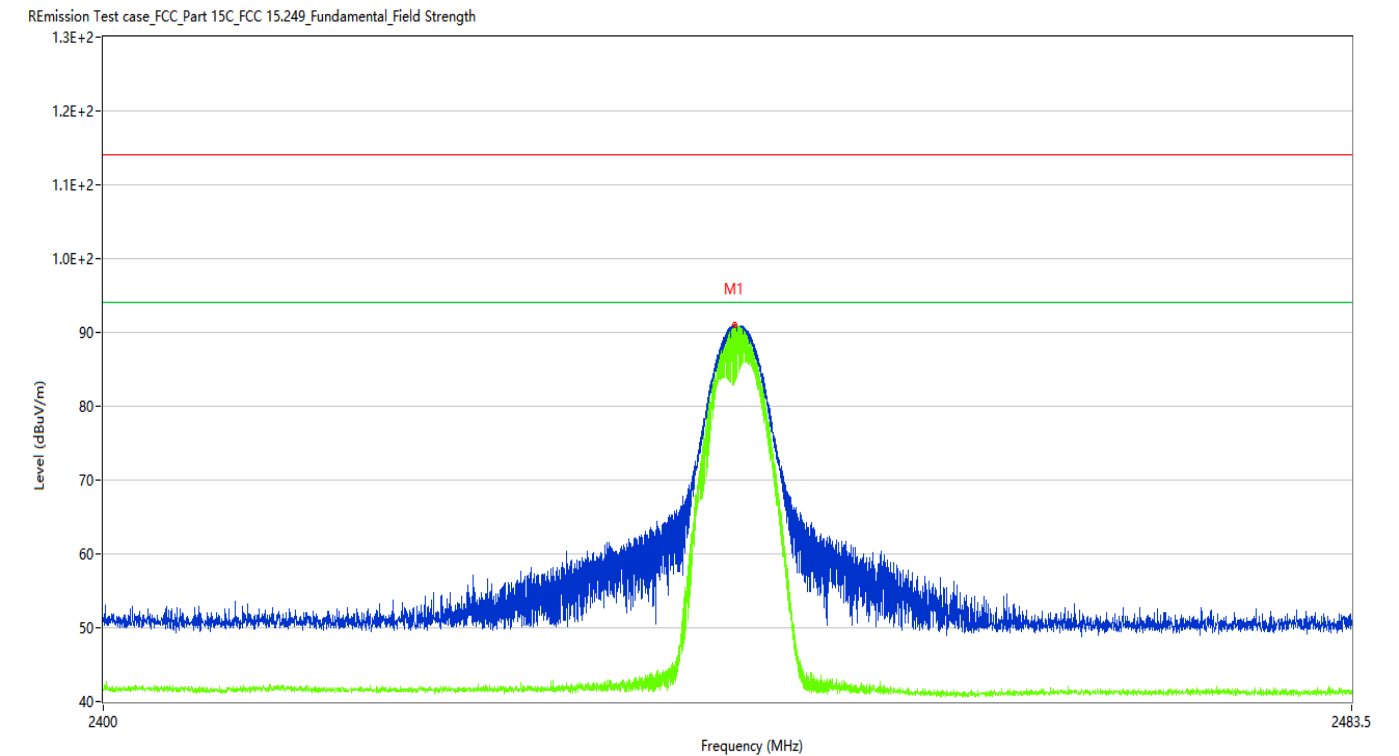
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Figure 3: Test plots of Field strength of fundamental, 2442MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2441.896	90.95	-10.63	114.0	23.05	Peak	281.50	100	Horizontal	Pass
1**	2441.896	90.75	-10.63	94.0	3.25	AV	281.50	100	Horizontal	Pass

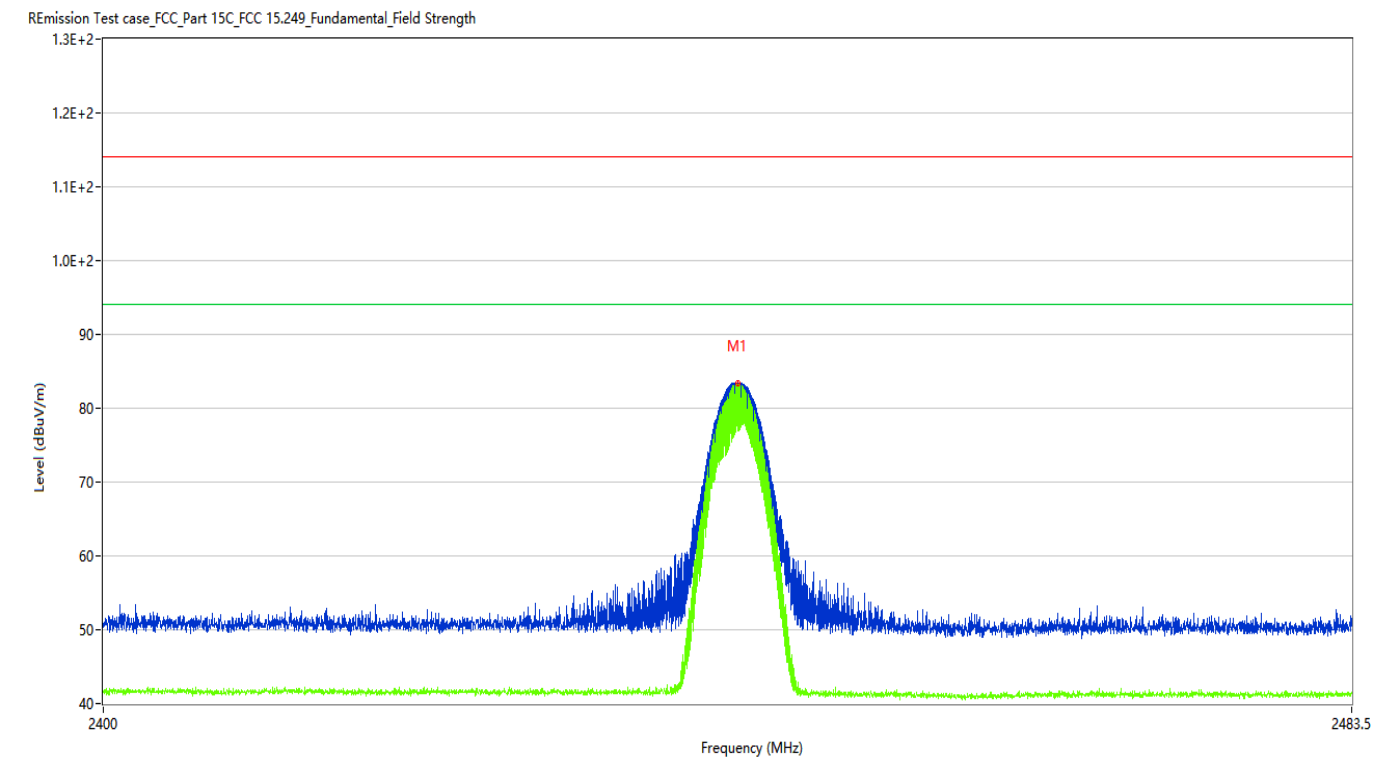
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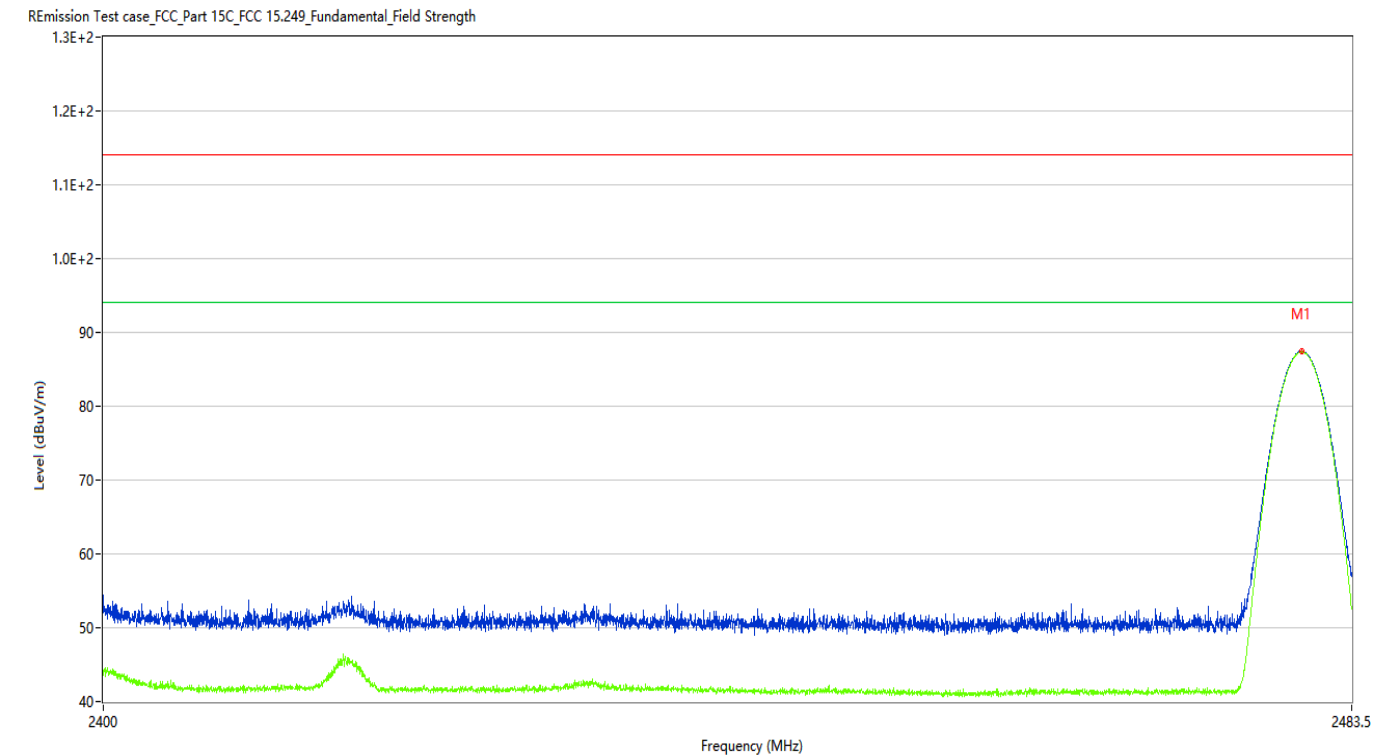
Figure 4: Test plots of Field strength of fundamental, 2442MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.084	83.46	-10.64	114.0	30.54	Peak	295.40	100	Vertical	Pass
1**	2442.084	83.28	-10.64	94.0	10.72	AV	295.40	100	Vertical	Pass

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Figure 5: Test plots of Field strength of fundamental, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.077	87.48	-10.81	114.0	26.52	Peak	285.90	100	Horizontal	Pass
1**	2480.077	87.39	-10.81	94.0	6.61	AV	285.90	100	Horizontal	Pass

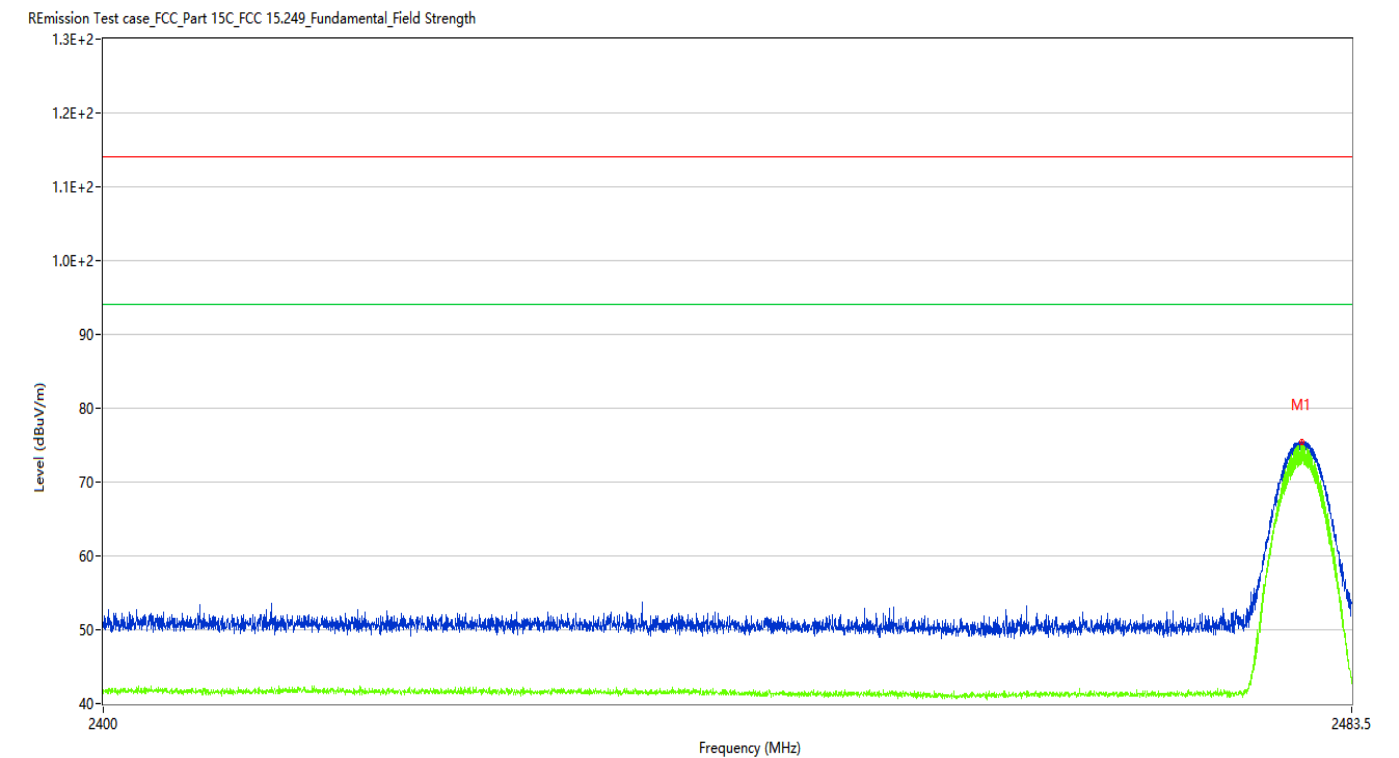
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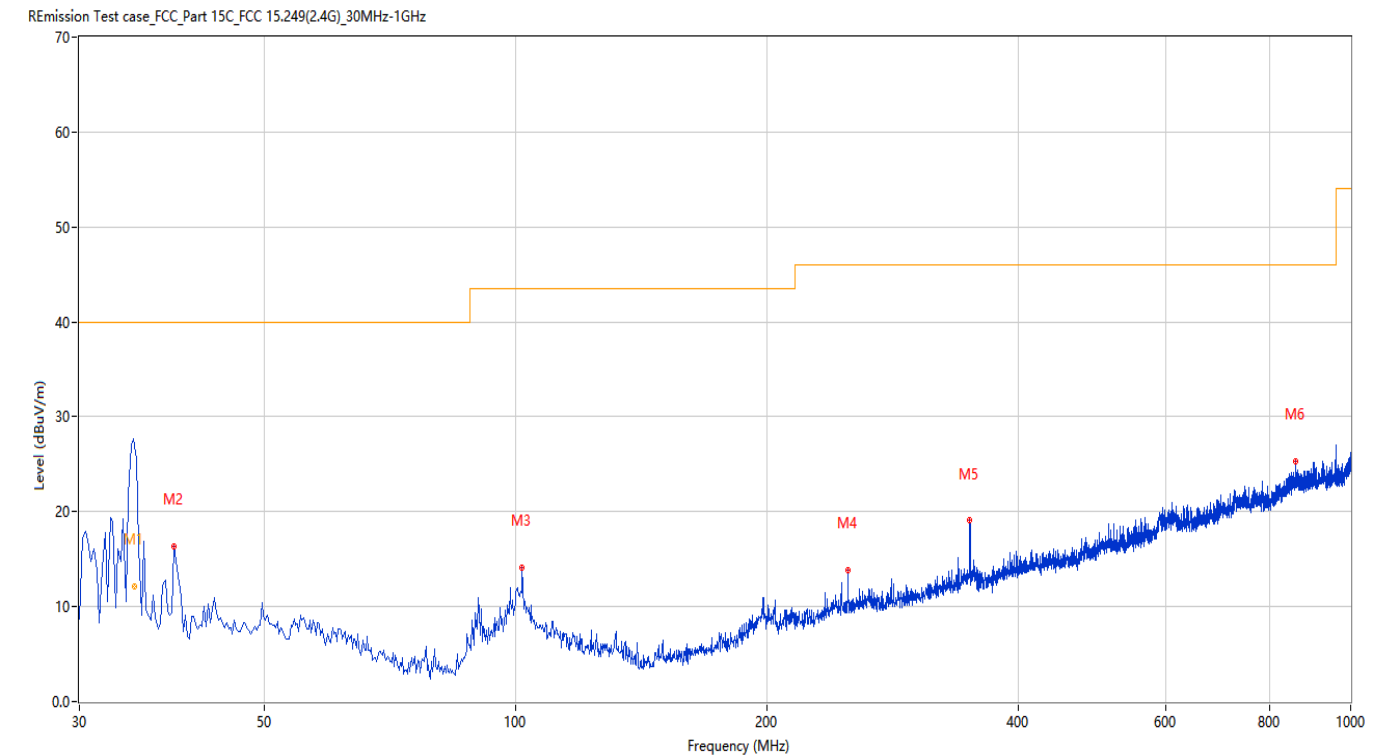
Figure 6: Test plots of Field strength of fundamental, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.077	75.49	-10.81	114.0	38.51	Peak	234.00	100	Vertical	Pass
1**	2480.077	73.32	-10.81	94.0	20.68	AV	234.00	100	Vertical	Pass

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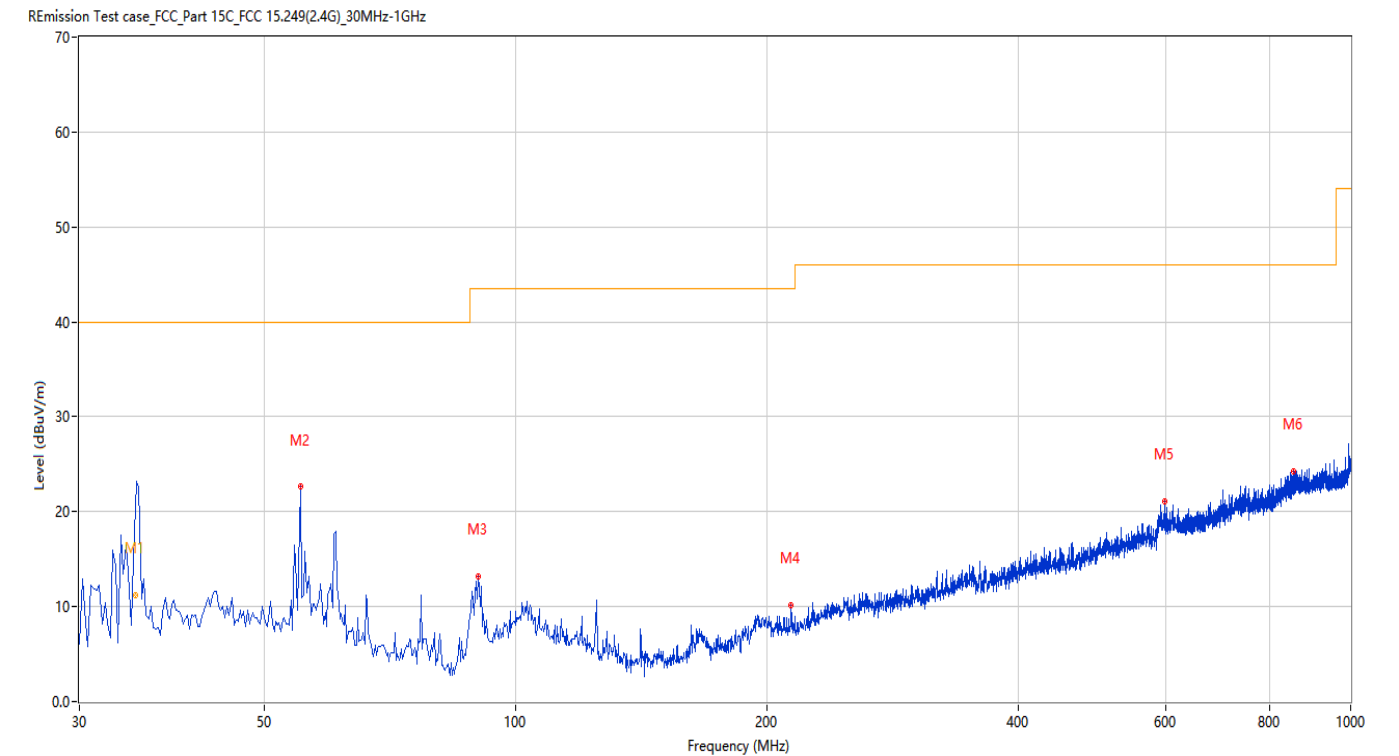
Figure 7: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.959	30.65	-28.26	40.0	9.35	Peak	175.30	165	Horizontal	Pass
1*	34.959	12.10	-28.26	40.0	27.90	QP	175.30	165	Horizontal	Pass
2	38.970	16.34	-26.79	40.0	23.66	Peak	258.80	100	Horizontal	Pass
3	101.762	14.14	-26.21	43.5	29.36	Peak	360.00	200	Horizontal	Pass
4	249.893	13.80	-24.31	46.0	32.20	Peak	321.10	200	Horizontal	Pass
5	349.778	19.05	-20.96	46.0	26.95	Peak	360.00	200	Horizontal	Pass
6	860.112	25.26	-9.46	46.0	20.74	Peak	360.00	200	Horizontal	Pass

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Figure 8: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.014	28.61	-28.18	40.0	11.39	Peak	285.80	100	Vertical	Pass
1*	35.014	11.22	-28.18	40.0	28.78	QP	285.80	100	Vertical	Pass
2	55.214	22.61	-25.55	40.0	17.39	Peak	0.00	200	Vertical	Pass
3	90.125	13.15	-28.36	43.5	30.35	Peak	0.00	200	Vertical	Pass
4	213.769	10.14	-26.29	43.5	33.36	Peak	212.00	200	Vertical	Pass
5	599.248	21.12	-14.80	46.0	24.88	Peak	203.10	200	Vertical	Pass
6	853.324	24.26	-9.65	46.0	21.74	Peak	0.00	200	Vertical	Pass

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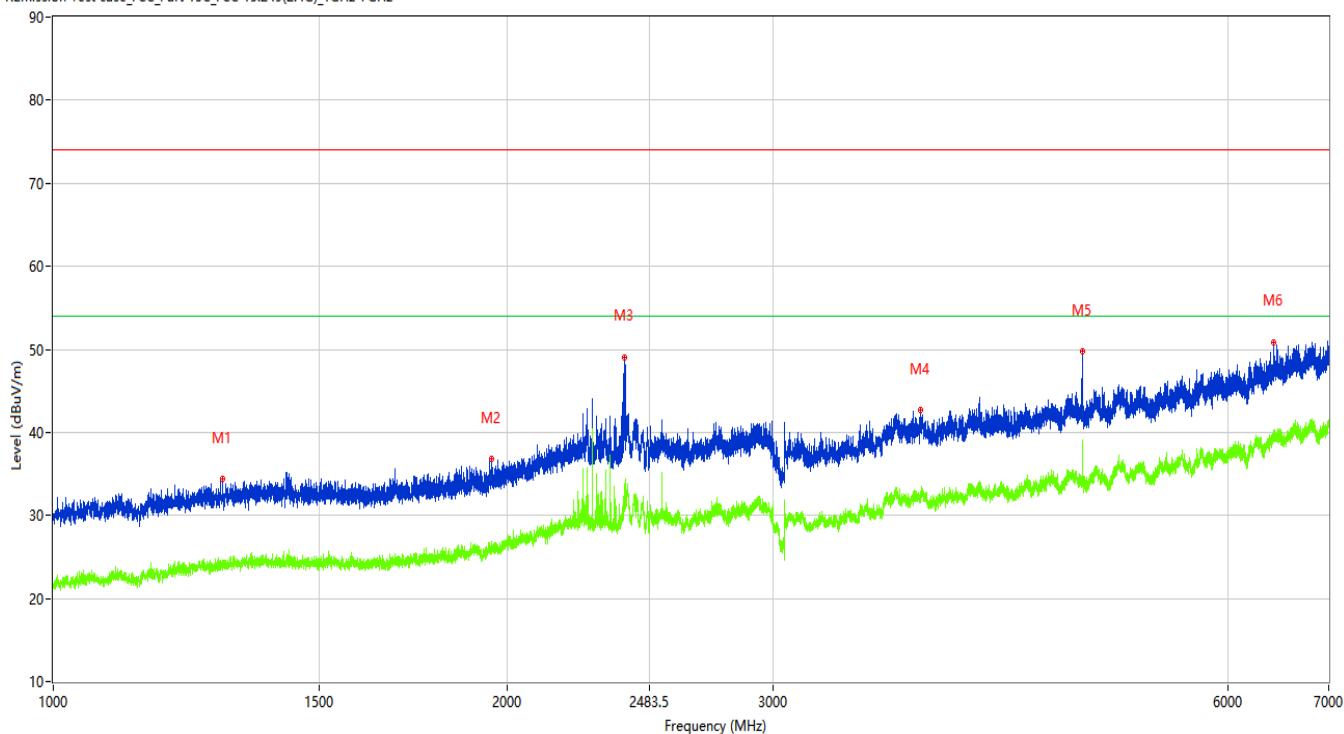
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Figure 9: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Horizontal polarization

REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1294.500	34.41	-13.94	74.0	39.59	Peak	76.10	100	Horizontal	Pass
1**	1294.500	24.22	-13.94	54.0	29.78	AV	76.10	100	Horizontal	Pass
2	1951.000	36.85	-11.97	74.0	37.15	Peak	360.00	100	Horizontal	Pass
2**	1951.000	26.00	-11.97	54.0	28.00	AV	360.00	100	Horizontal	Pass
3	2392.000	49.08	-4.88	74.0	24.92	Peak	228.30	100	Horizontal	Pass
3**	2392.000	32.73	-4.88	54.0	21.27	AV	228.30	100	Horizontal	Pass
4	3752.500	42.73	-2.70	74.0	31.27	Peak	173.30	100	Horizontal	Pass
4**	3752.500	31.82	-2.70	54.0	22.18	AV	173.30	100	Horizontal	Pass
5	4806.000	49.82	-1.80	74.0	24.18	Peak	84.60	100	Horizontal	Pass
5**	4806.000	39.07	-1.80	54.0	14.93	AV	84.60	100	Horizontal	Pass
6	6438.000	50.88	3.02	74.0	23.12	Peak	73.50	100	Horizontal	Pass
6**	6438.000	39.73	3.02	54.0	14.27	AV	73.50	100	Horizontal	Pass

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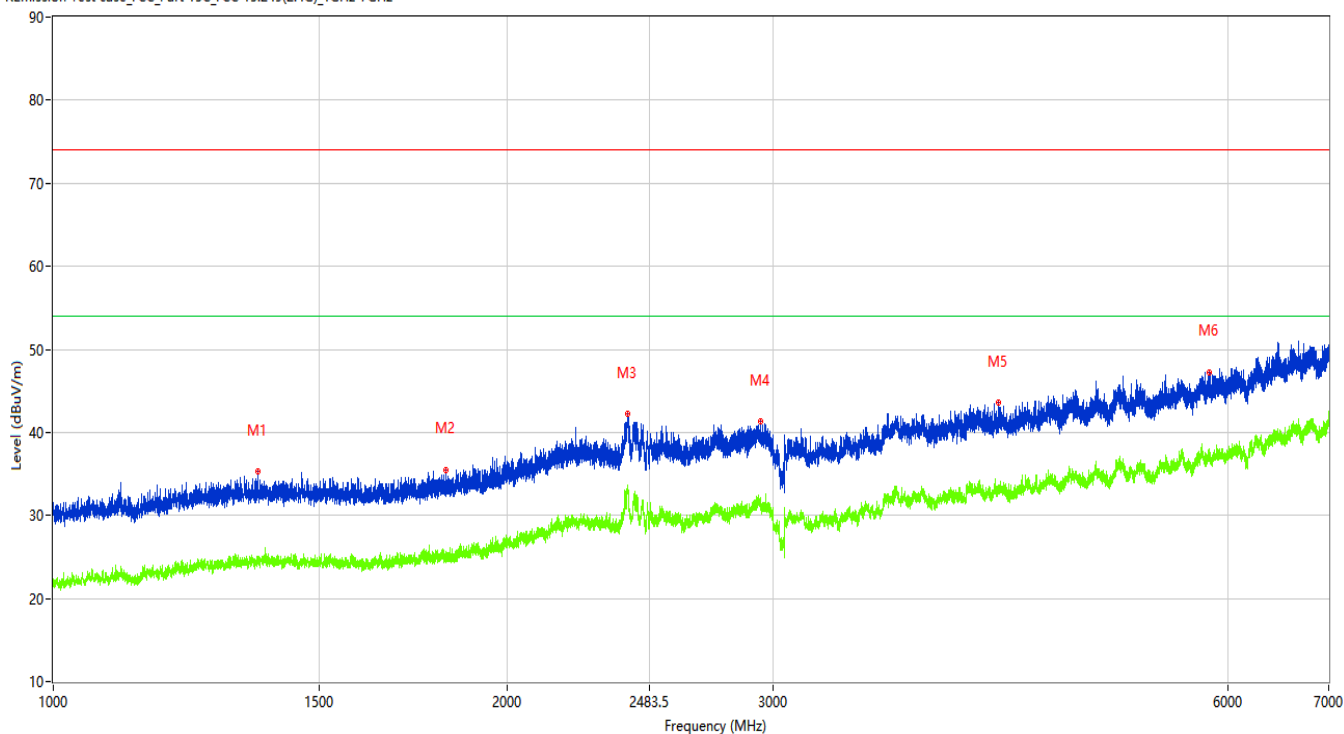
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Figure 10: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Vertical polarization

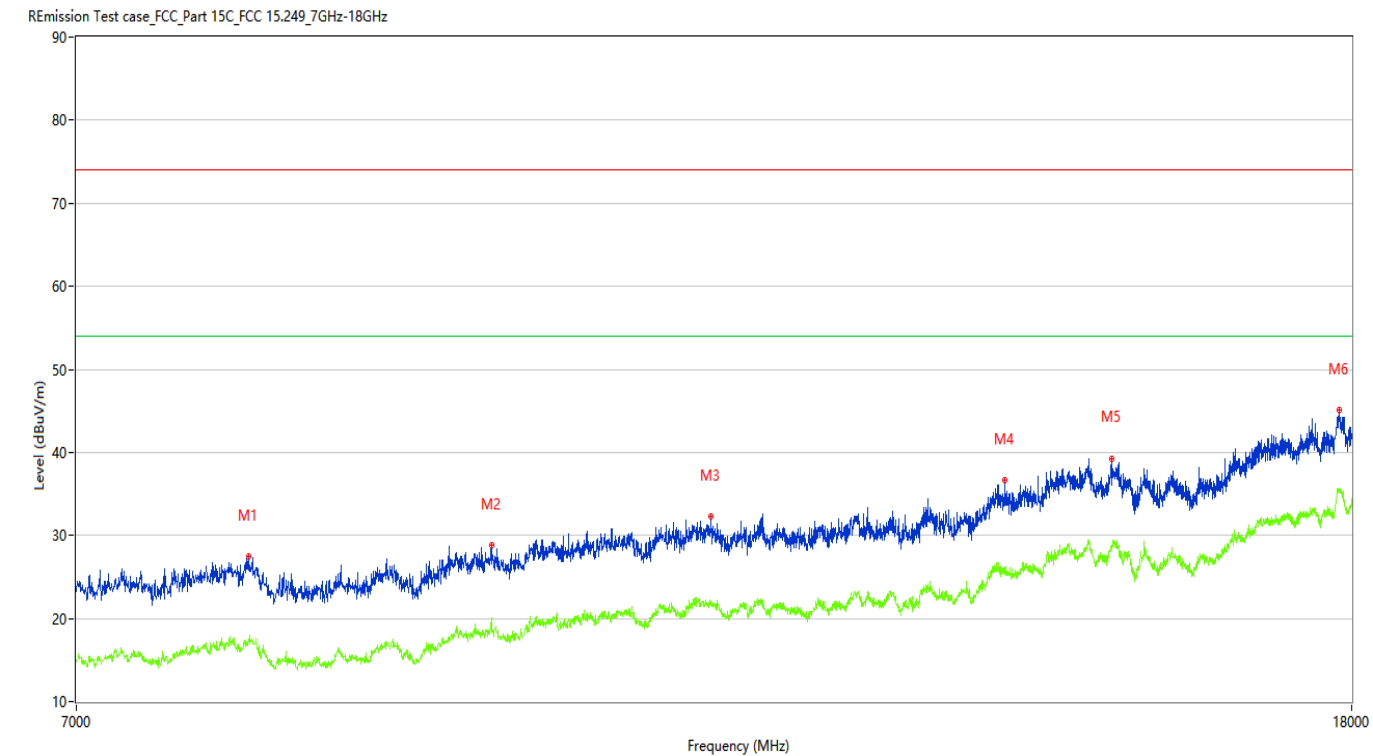
REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1365.500	35.29	-13.48	74.0	38.71	Peak	186.60	100	Vertical	Pass
1**	1365.500	25.11	-13.48	54.0	28.89	AV	186.60	100	Vertical	Pass
2	1819.750	35.53	-13.10	74.0	38.47	Peak	303.90	100	Vertical	Pass
2**	1819.750	25.03	-13.10	54.0	28.97	AV	303.90	100	Vertical	Pass
3	2401.000	42.29	-4.93	74.0	31.71	Peak	175.90	100	Vertical	Pass
3**	2401.000	33.09	-4.93	54.0	20.91	AV	175.90	100	Vertical	Pass
4	2941.000	41.32	-5.06	74.0	32.68	Peak	325.00	100	Vertical	Pass
4**	2941.000	32.21	-5.06	54.0	21.79	AV	325.00	100	Vertical	Pass
5	4229.500	43.63	-2.27	74.0	30.37	Peak	234.60	100	Vertical	Pass
5**	4229.500	32.68	-2.27	54.0	21.32	AV	234.60	100	Vertical	Pass
6	5833.500	47.26	0.78	74.0	26.74	Peak	131.30	100	Vertical	Pass
6**	5833.500	37.13	0.78	54.0	16.87	AV	131.30	100	Vertical	Pass

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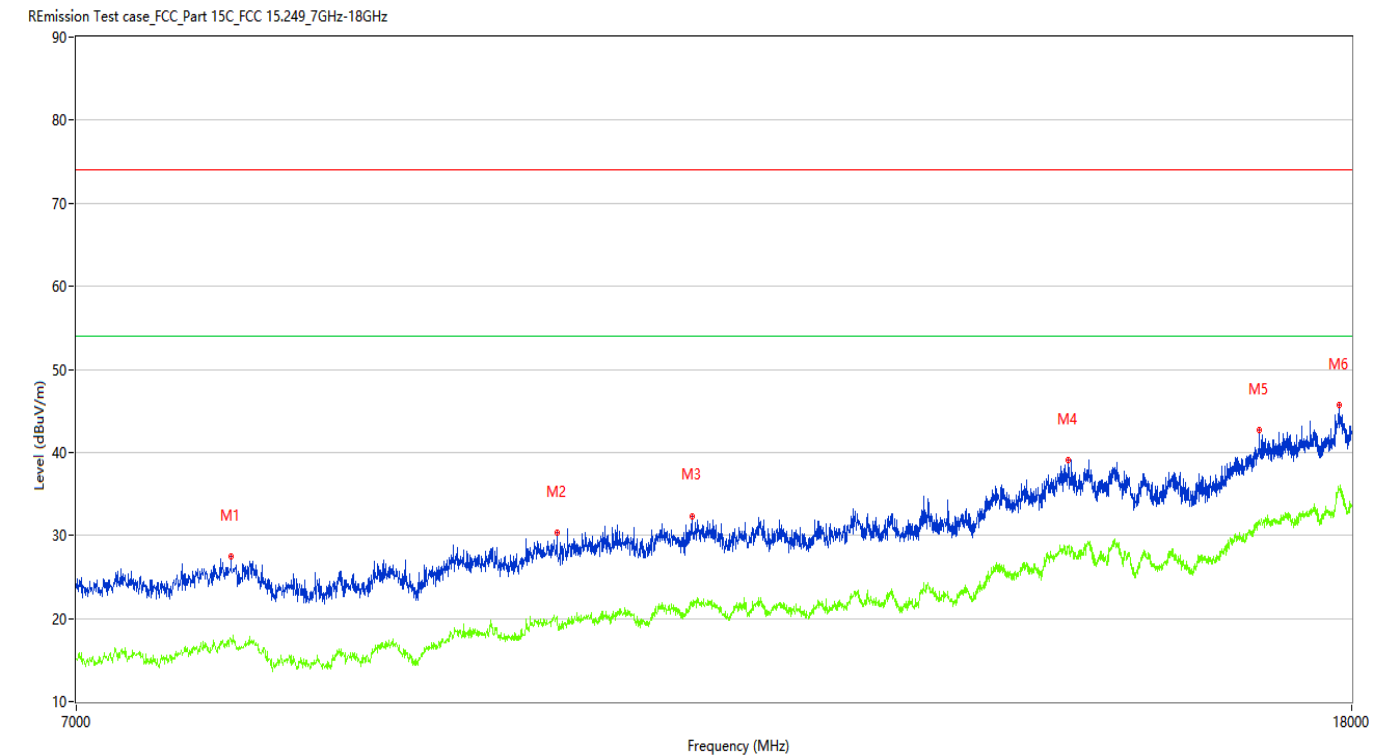
Figure 11: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7954.250	27.44	0.93	74.0	46.56	Peak	213.70	100	Horizontal	Pass
1**	7954.250	17.28	0.93	54.0	36.72	AV	213.70	100	Horizontal	Pass
2	9519.000	28.87	3.01	74.0	45.13	Peak	258.90	100	Horizontal	Pass
2**	9519.000	20.13	3.01	54.0	33.87	AV	258.90	100	Horizontal	Pass
3	11199.250	32.24	4.16	74.0	41.76	Peak	188.70	100	Horizontal	Pass
3**	11199.250	21.90	4.16	54.0	32.10	AV	188.70	100	Horizontal	Pass
4	13921.750	36.62	8.37	74.0	37.38	Peak	258.90	100	Horizontal	Pass
4**	13921.750	26.16	8.37	54.0	27.84	AV	258.90	100	Horizontal	Pass
5	15071.250	39.29	9.84	74.0	34.71	Peak	330.10	100	Horizontal	Pass
5**	15071.250	28.45	9.84	54.0	25.55	AV	330.10	100	Horizontal	Pass
6	17832.249	45.04	15.82	74.0	28.96	Peak	281.90	100	Horizontal	Pass
6**	17832.249	35.68	15.82	54.0	18.32	AV	281.90	100	Horizontal	Pass

TEST REPORT

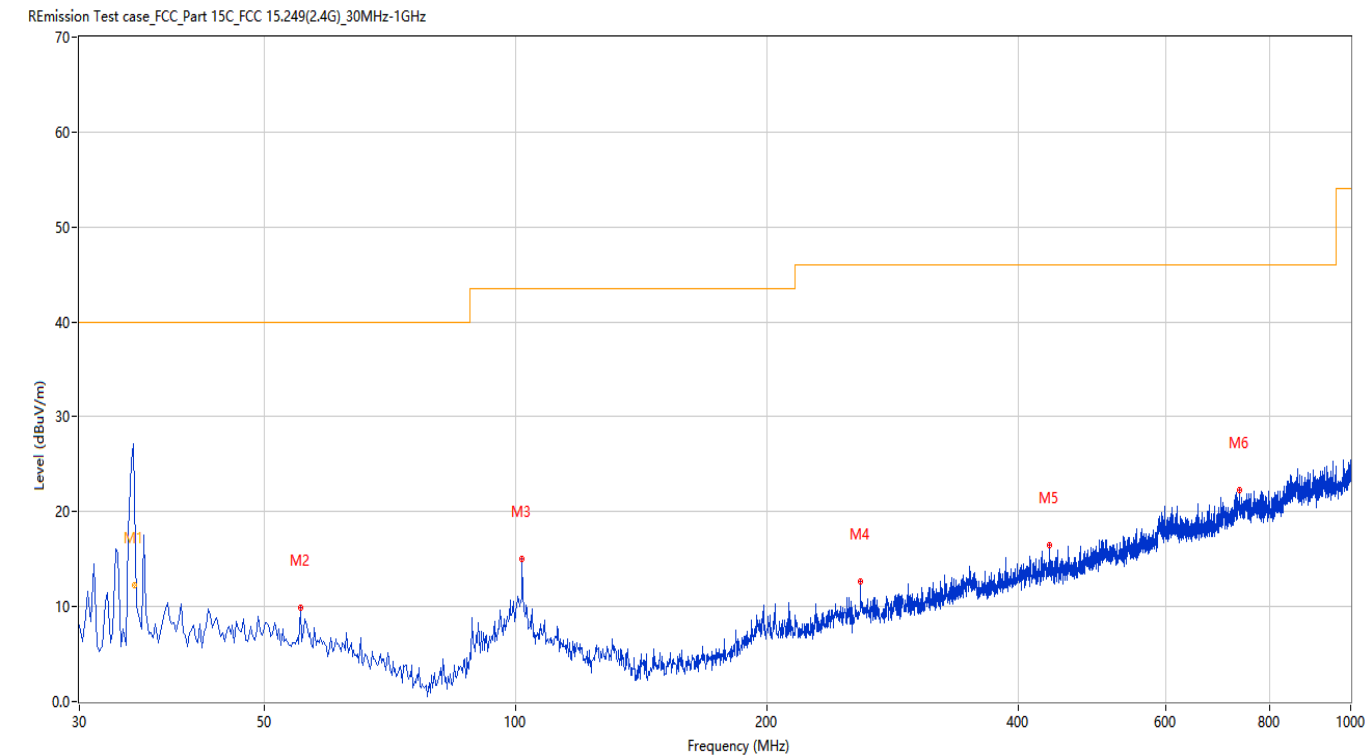
Figure 12: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7849.750	27.43	1.00	74.0	46.57	Peak	344.50	100	Vertical	Pass
1**	7849.750	17.17	1.00	54.0	36.83	AV	344.50	100	Vertical	Pass
2	9994.750	30.30	3.41	74.0	43.70	Peak	0.00	100	Vertical	Pass
2**	9994.750	19.85	3.41	54.0	34.15	AV	0.00	100	Vertical	Pass
3	11045.250	32.37	4.42	74.0	41.63	Peak	173.90	100	Vertical	Pass
3**	11045.250	21.70	4.42	54.0	32.30	AV	173.90	100	Vertical	Pass
4	14595.500	39.09	10.68	74.0	34.91	Peak	0.00	100	Vertical	Pass
4**	14595.500	28.63	10.68	54.0	25.37	AV	0.00	100	Vertical	Pass
5	16806.500	42.63	12.58	74.0	31.37	Peak	232.80	100	Vertical	Pass
5**	16806.500	31.88	12.58	54.0	22.12	AV	232.80	100	Vertical	Pass
6	17829.501	45.71	15.63	74.0	28.29	Peak	113.70	100	Vertical	Pass
6**	17829.501	35.47	15.63	54.0	18.53	AV	113.70	100	Vertical	Pass

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Figure 13: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.965	30.65	-28.26	40.0	9.35	Peak	2.70	130	Horizontal	Pass
1*	34.965	12.25	-28.26	40.0	27.75	QP	2.70	130	Horizontal	Pass
2	55.214	9.86	-25.55	40.0	30.14	Peak	92.60	100	Horizontal	Pass
3	101.762	15.05	-26.21	43.5	28.45	Peak	164.20	100	Horizontal	Pass
4	258.620	12.71	-23.97	46.0	33.29	Peak	164.90	100	Horizontal	Pass
5	435.359	16.52	-19.59	46.0	29.48	Peak	156.00	100	Horizontal	Pass
6	735.741	22.27	-12.25	46.0	23.73	Peak	88.70	100	Horizontal	Pass

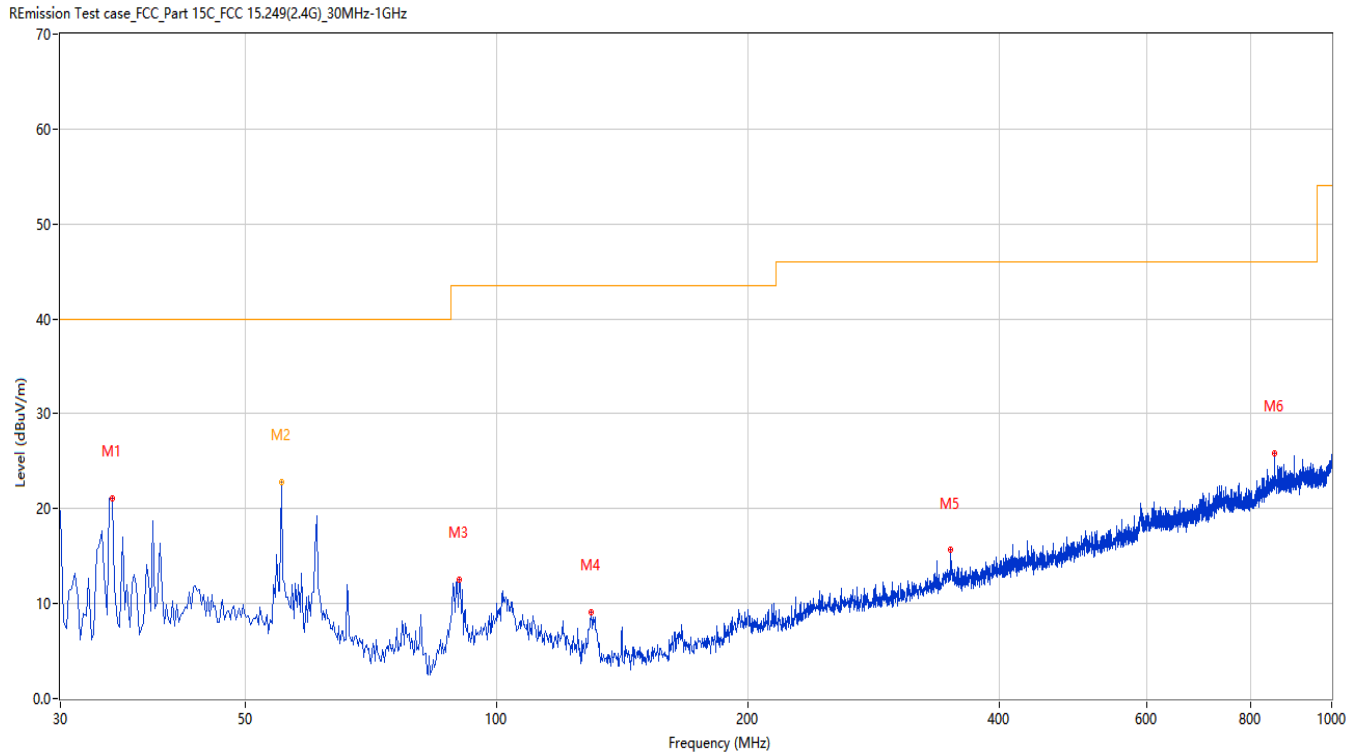
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Figure 14: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.606	21.08	-28.34	40.0	18.92	Peak	354.00	200	Vertical	Pass
2	55.294	28.87	-25.55	40.0	11.13	Peak	360.00	113	Vertical	Pass
2*	55.294	22.87	-25.55	40.0	17.13	QP	360.00	113	Vertical	Pass
3	90.125	12.57	-28.36	43.5	30.93	Peak	77.20	100	Vertical	Pass
4	129.643	9.04	-29.24	43.5	34.46	Peak	64.40	100	Vertical	Pass
5	349.778	15.73	-20.96	46.0	30.27	Peak	360.00	200	Vertical	Pass
6	854.051	25.90	-9.62	46.0	20.10	Peak	62.60	200	Vertical	Pass

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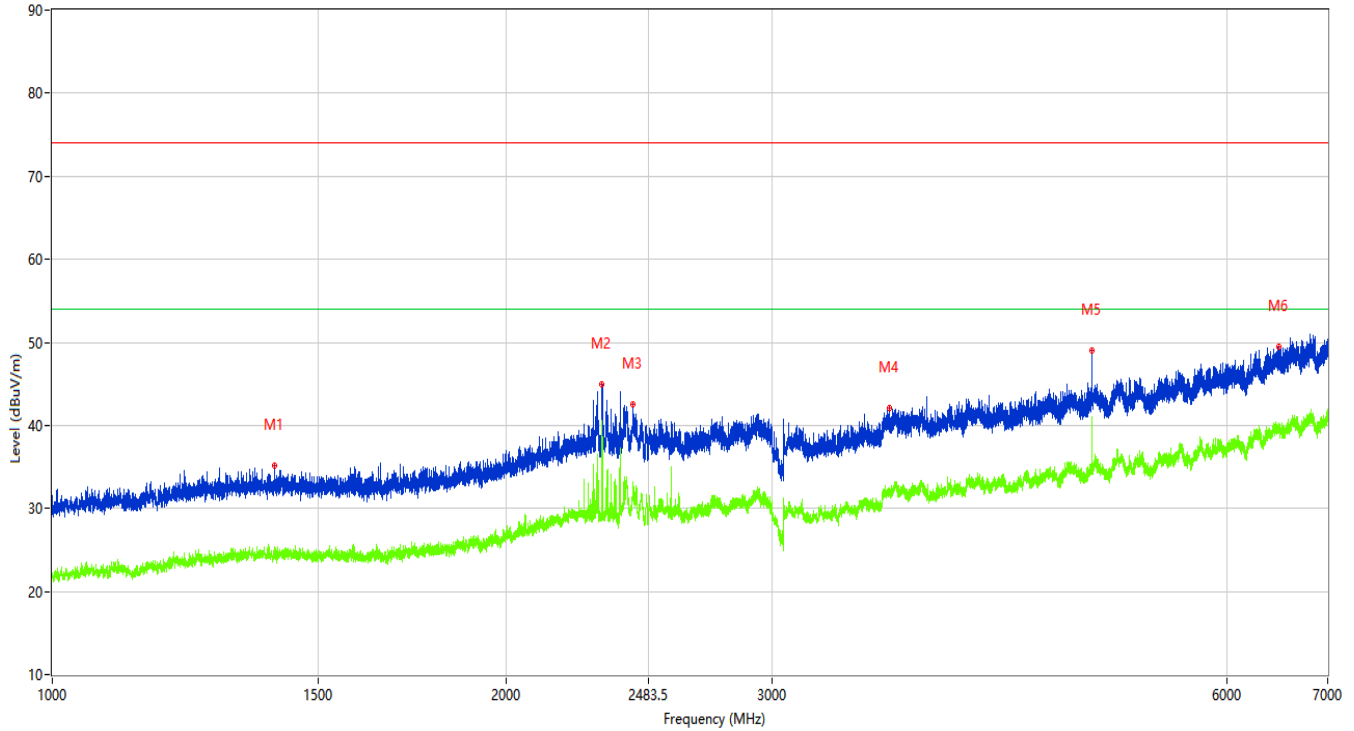
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Figure 15: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Horizontal polarization

REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1404.250	35.09	-13.42	74.0	38.91	Peak	5.90	100	Horizontal	Pass
1**	1404.250	24.60	-13.42	54.0	29.40	AV	5.90	100	Horizontal	Pass
2	2314.000	44.98	-8.46	74.0	29.02	Peak	223.90	100	Horizontal	Pass
2**	2314.000	38.23	-8.46	54.0	15.77	AV	223.90	100	Horizontal	Pass
3	2425.250	42.56	-5.84	74.0	31.44	Peak	5.90	100	Horizontal	Pass
3**	2425.250	32.43	-5.84	54.0	21.57	AV	5.90	100	Horizontal	Pass
4	3587.500	42.09	-3.19	74.0	31.91	Peak	42.30	100	Horizontal	Pass
4**	3587.500	32.30	-3.19	54.0	21.70	AV	42.30	100	Horizontal	Pass
5	4884.500	49.02	-0.69	74.0	24.98	Peak	213.10	100	Horizontal	Pass
5**	4884.500	39.54	-0.69	54.0	14.46	AV	213.10	100	Horizontal	Pass
6	6492.500	49.46	2.94	74.0	24.54	Peak	143.40	100	Horizontal	Pass
6**	6492.500	39.75	2.94	54.0	14.25	AV	143.40	100	Horizontal	Pass

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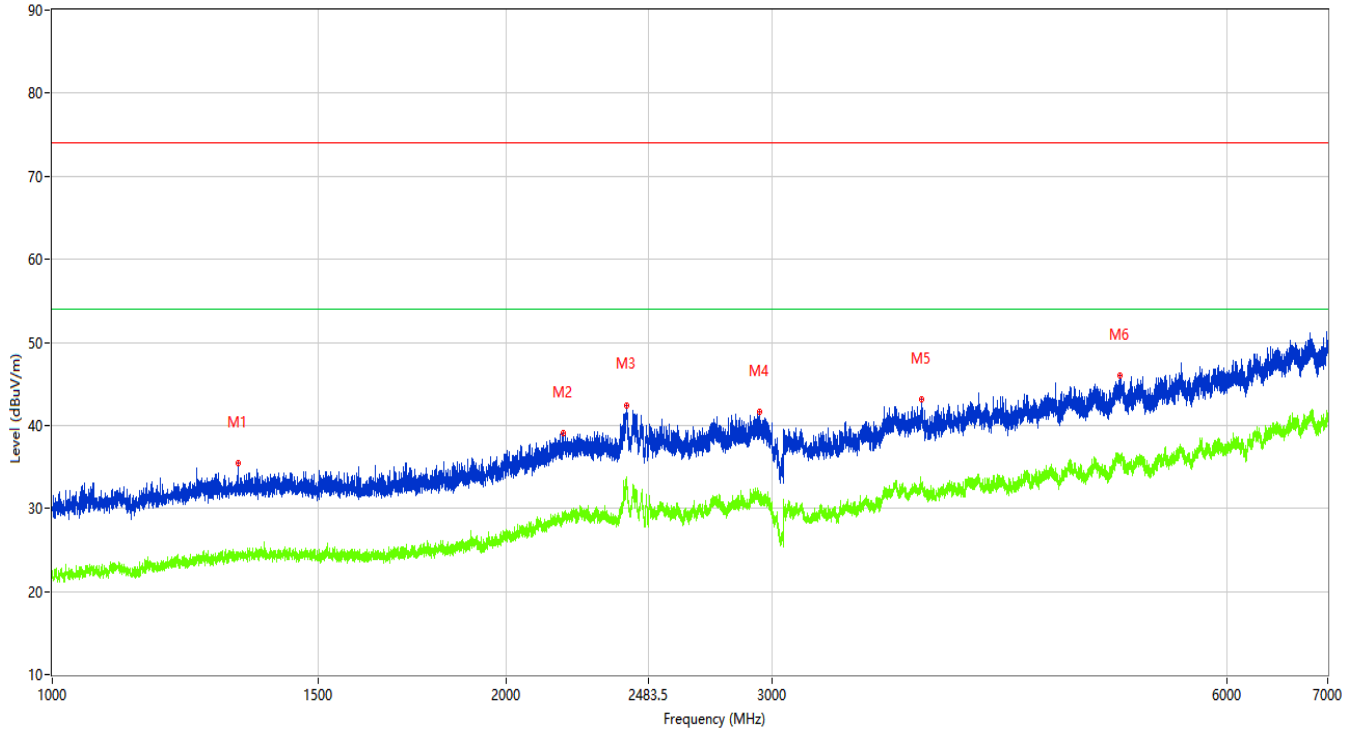
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Figure 16: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Vertical polarization

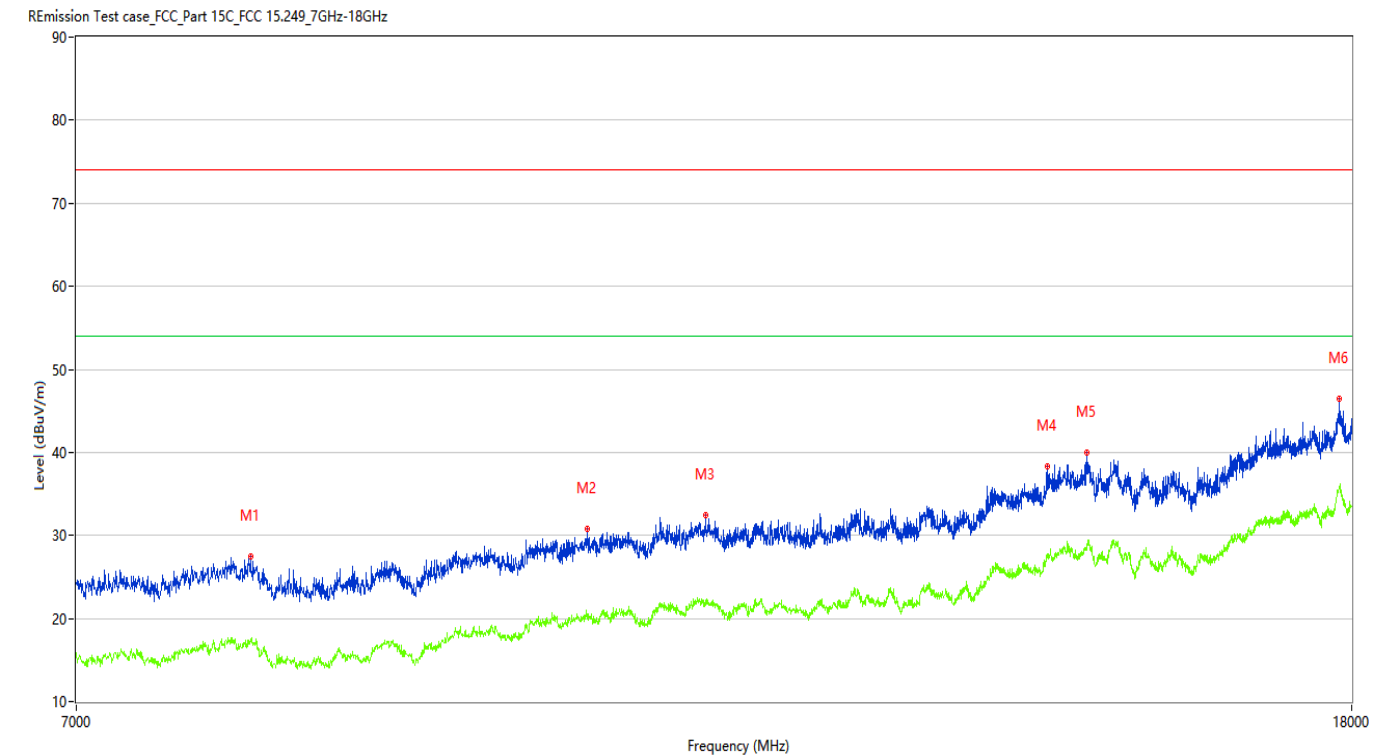
REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.250	35.41	-13.79	74.0	38.59	Peak	152.40	100	Vertical	Pass
1**	1327.250	24.83	-13.79	54.0	29.17	AV	152.40	100	Vertical	Pass
2	2181.000	39.06	-8.92	74.0	34.94	Peak	10.10	100	Vertical	Pass
2**	2181.000	28.79	-8.92	54.0	25.21	AV	10.10	100	Vertical	Pass
3	2402.000	42.44	-4.93	74.0	31.56	Peak	21.50	100	Vertical	Pass
3**	2402.000	33.14	-4.93	54.0	20.86	AV	21.50	100	Vertical	Pass
4	2942.500	41.57	-5.01	74.0	32.43	Peak	303.70	100	Vertical	Pass
4**	2942.500	31.33	-5.01	54.0	22.67	AV	303.70	100	Vertical	Pass
5	3768.500	43.14	-2.64	74.0	30.86	Peak	175.00	100	Vertical	Pass
5**	3768.500	33.12	-2.64	54.0	20.88	AV	175.00	100	Vertical	Pass
6	5099.500	45.94	0.65	74.0	28.06	Peak	359.30	100	Vertical	Pass
6**	5099.500	36.22	0.65	54.0	17.78	AV	359.30	100	Vertical	Pass

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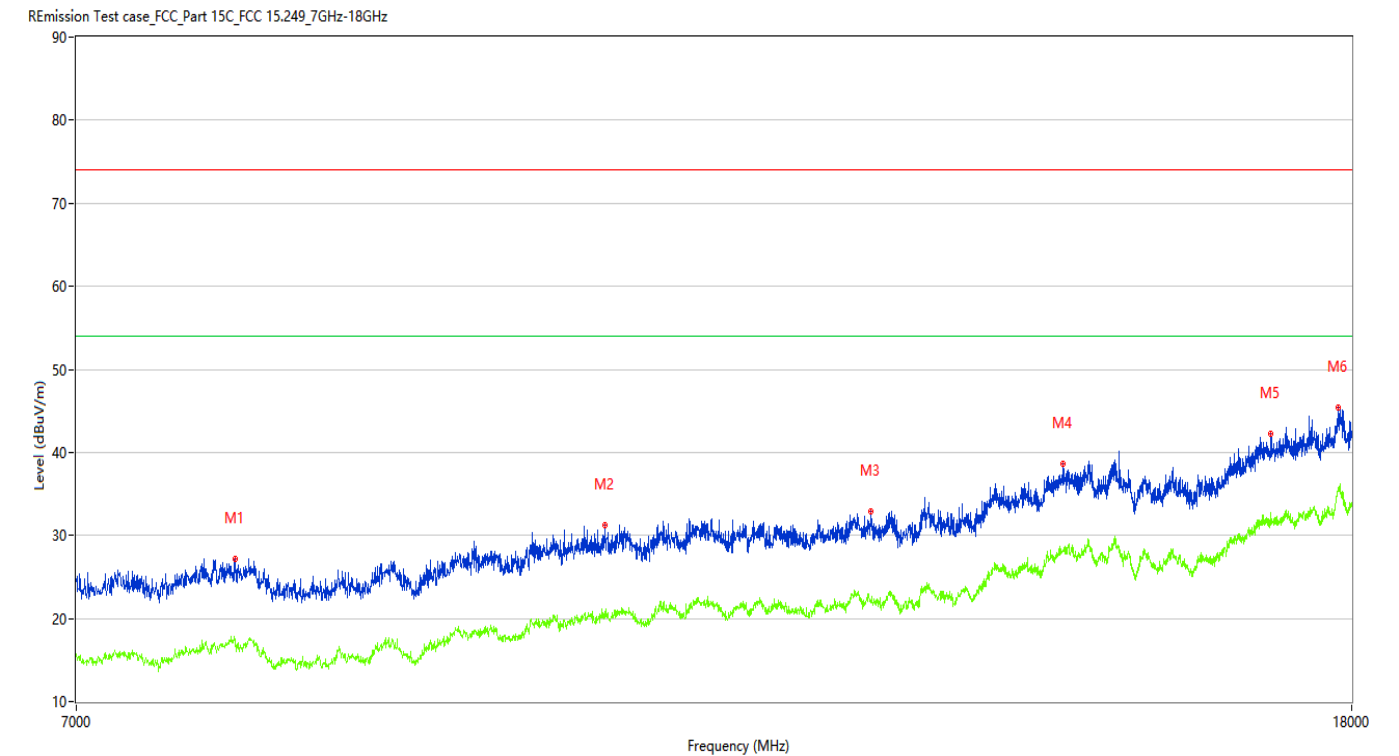
Figure 17: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7962.500	27.51	1.17	74.0	46.49	Peak	353.10	100	Horizontal	Pass
1**	7962.500	17.59	1.17	54.0	36.41	AV	353.10	100	Horizontal	Pass
2	10223.000	30.74	3.45	74.0	43.26	Peak	174.70	100	Horizontal	Pass
2**	10223.000	20.25	3.45	54.0	33.75	AV	174.70	100	Horizontal	Pass
3	11155.250	32.38	4.13	74.0	41.62	Peak	279.70	100	Horizontal	Pass
3**	11155.250	22.15	4.13	54.0	31.85	AV	279.70	100	Horizontal	Pass
4	14364.500	38.37	10.58	74.0	35.63	Peak	4.00	100	Horizontal	Pass
4**	14364.500	27.69	10.58	54.0	26.31	AV	4.00	100	Horizontal	Pass
5	14790.750	39.99	10.87	74.0	34.01	Peak	101.80	100	Horizontal	Pass
5**	14790.750	28.61	10.87	54.0	25.39	AV	101.80	100	Horizontal	Pass
6	17835.000	46.42	15.84	74.0	27.58	Peak	304.70	100	Horizontal	Pass
6**	17835.000	35.88	15.84	54.0	18.12	AV	304.70	100	Horizontal	Pass

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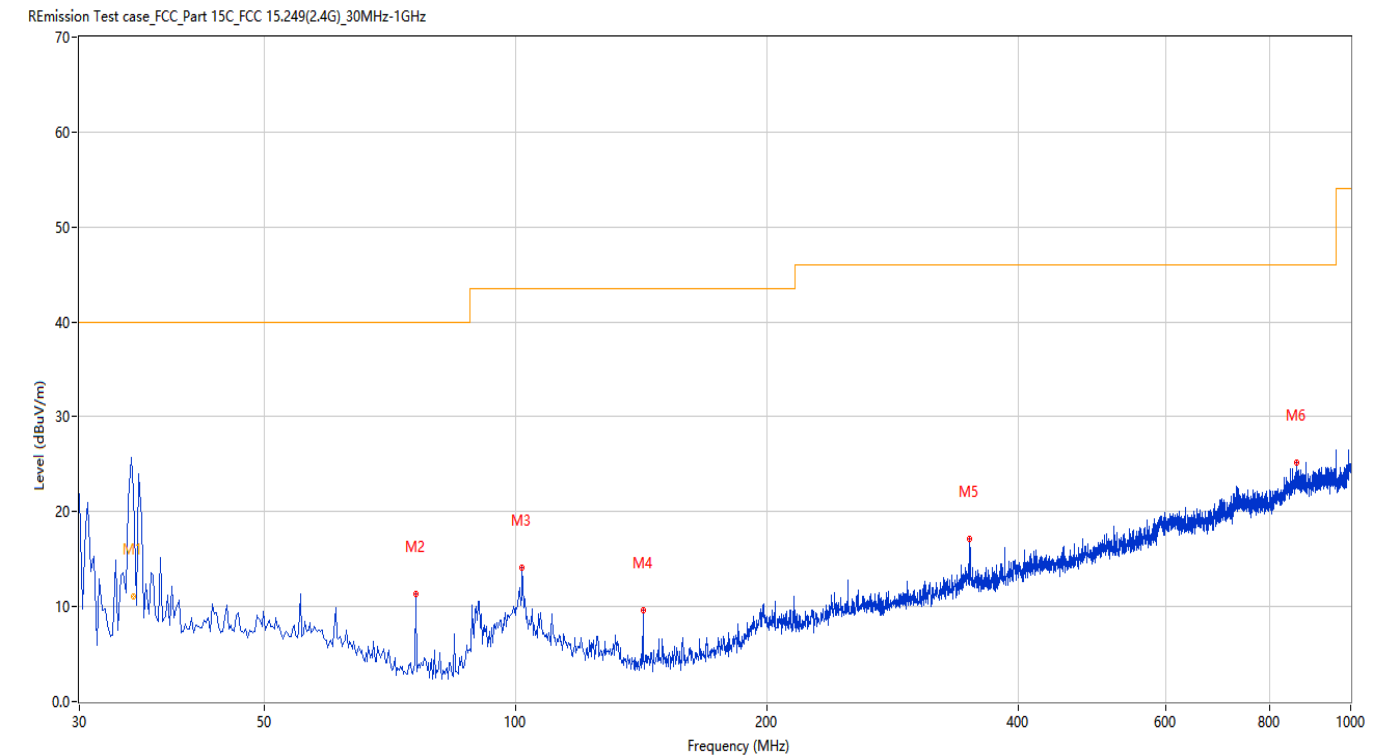
Figure 18: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7871.750	27.22	1.04	74.0	46.78	Peak	46.60	100	Vertical	Pass
1**	7871.750	17.51	1.04	54.0	36.49	AV	46.60	100	Vertical	Pass
2	10352.250	31.28	4.09	74.0	42.72	Peak	249.80	100	Vertical	Pass
2**	10352.250	20.91	4.09	54.0	33.09	AV	249.80	100	Vertical	Pass
3	12604.500	32.85	4.96	74.0	41.15	Peak	82.20	100	Vertical	Pass
3**	12604.500	22.02	4.96	54.0	31.98	AV	82.20	100	Vertical	Pass
4	14532.250	38.67	9.47	74.0	35.33	Peak	274.50	100	Vertical	Pass
4**	14532.250	28.25	9.47	54.0	25.75	AV	274.50	100	Vertical	Pass
5	16949.500	42.27	13.18	74.0	31.73	Peak	58.50	100	Vertical	Pass
5**	16949.500	32.75	13.18	54.0	21.25	AV	58.50	100	Vertical	Pass
6	17826.750	45.35	15.60	74.0	28.65	Peak	82.20	100	Vertical	Pass
6**	17826.750	35.73	15.60	54.0	18.27	AV	82.20	100	Vertical	Pass

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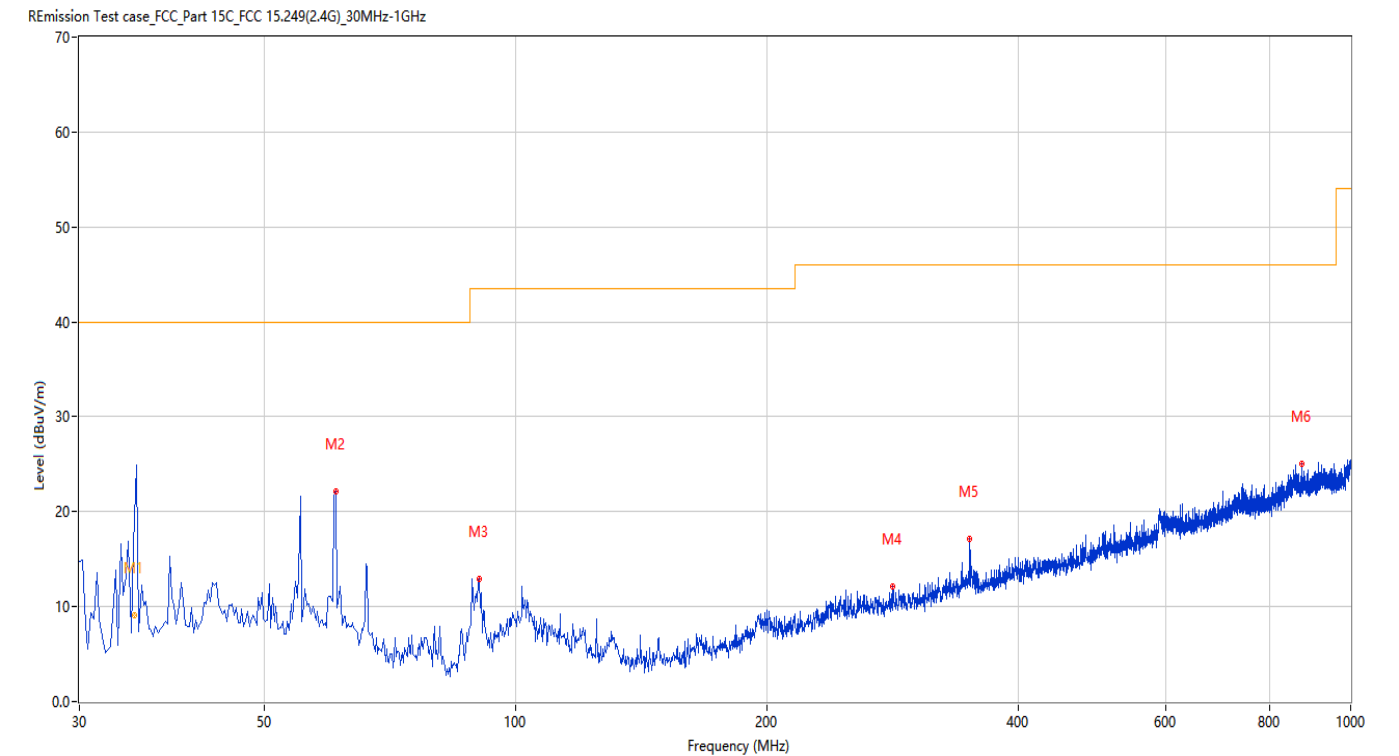
Figure 19: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.771	30.13	-28.34	40.0	9.87	Peak	42.60	166	Horizontal	Pass
1*	34.771	11.11	-28.34	40.0	28.89	QP	42.60	166	Horizontal	Pass
2	75.821	11.31	-31.13	40.0	28.69	Peak	0.00	200	Horizontal	Pass
3	101.762	14.12	-26.21	43.5	29.38	Peak	0.60	100	Horizontal	Pass
4	142.007	9.58	-29.96	43.5	33.92	Peak	0.00	200	Horizontal	Pass
5	349.778	17.10	-20.96	46.0	28.90	Peak	0.00	200	Horizontal	Pass
6	861.082	25.18	-9.49	46.0	20.82	Peak	0.00	200	Horizontal	Pass

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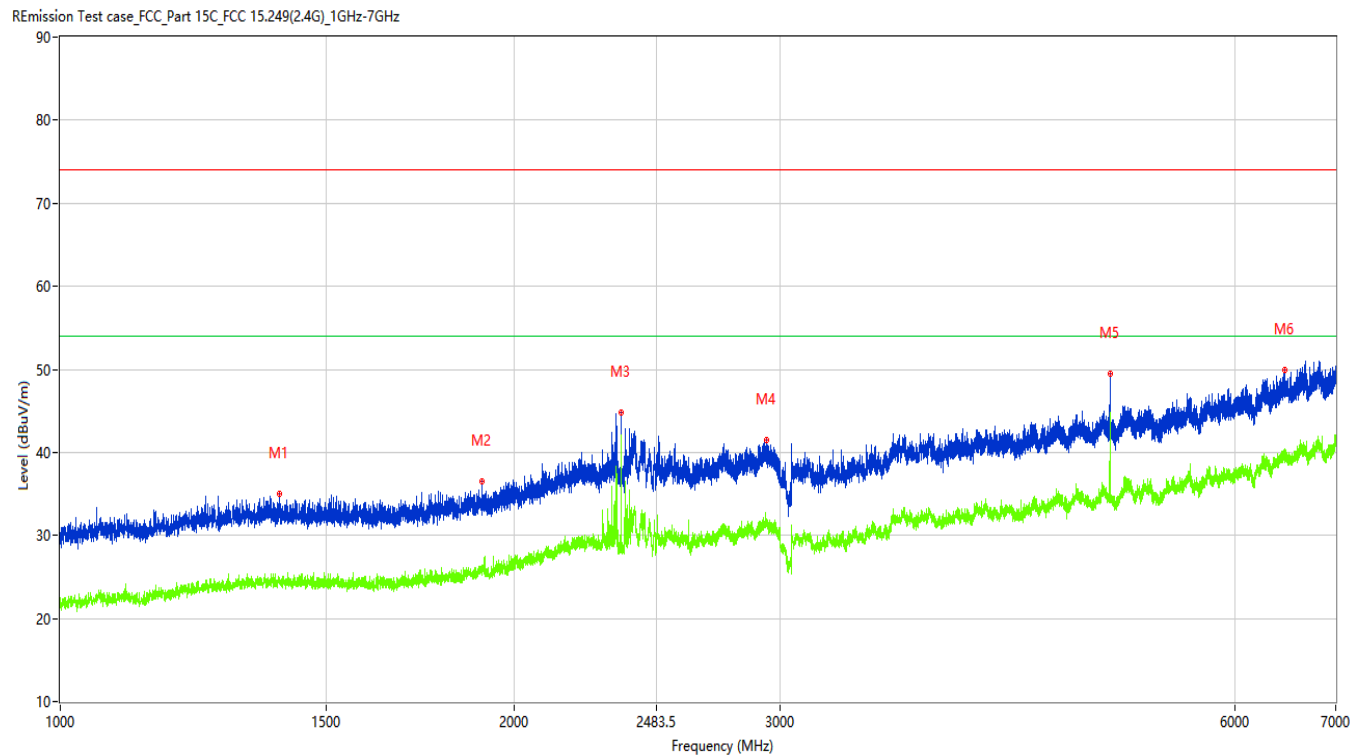
Figure 20: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.870	27.06	-28.18	40.0	12.94	Peak	163.30	148	Vertical	Pass
1*	34.870	9.13	-28.18	40.0	30.87	QP	163.30	148	Vertical	Pass
2	60.790	22.19	-26.52	40.0	17.81	Peak	360.00	200	Vertical	Pass
3	90.367	12.94	-28.28	43.5	30.56	Peak	360.00	200	Vertical	Pass
4	282.864	12.08	-23.73	46.0	33.92	Peak	360.00	200	Vertical	Pass
5	349.778	17.18	-20.96	46.0	28.82	Peak	360.00	200	Vertical	Pass
6	873.447	25.01	-9.66	46.0	20.99	Peak	360.00	200	Vertical	Pass

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Figure 21: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1397.000	35.03	-13.52	74.0	38.97	Peak	0.00	100	Horizontal	Pass
1**	1397.000	24.34	-13.52	54.0	29.66	AV	0.00	100	Horizontal	Pass
2	1903.750	36.46	-12.42	74.0	37.54	Peak	231.20	100	Horizontal	Pass
2**	1903.750	26.00	-12.42	54.0	28.00	AV	231.20	100	Horizontal	Pass
3	2351.750	44.82	-8.81	74.0	29.18	Peak	231.20	100	Horizontal	Pass
3**	2351.750	40.77	-8.81	54.0	13.23	AV	231.20	100	Horizontal	Pass
4	2936.250	41.43	-5.10	74.0	32.57	Peak	128.70	100	Horizontal	Pass
4**	2936.250	31.55	-5.10	54.0	22.45	AV	128.70	100	Horizontal	Pass
5	4960.500	49.41	-0.98	74.0	24.59	Peak	317.10	100	Horizontal	Pass
5**	4960.500	43.45	-0.98	54.0	10.55	AV	317.10	100	Horizontal	Pass
6	6474.000	49.88	3.10	74.0	24.12	Peak	296.60	100	Horizontal	Pass
6**	6474.000	39.69	3.10	54.0	14.31	AV	296.60	100	Horizontal	Pass

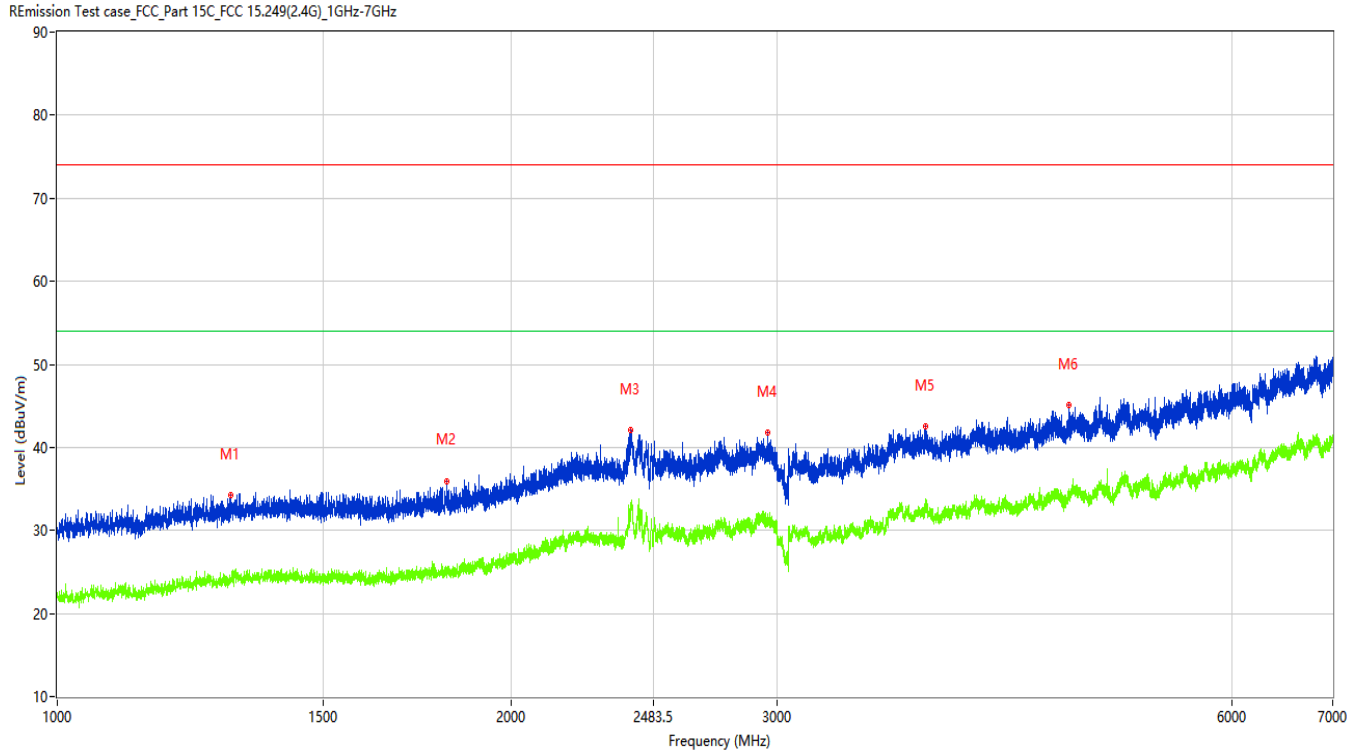
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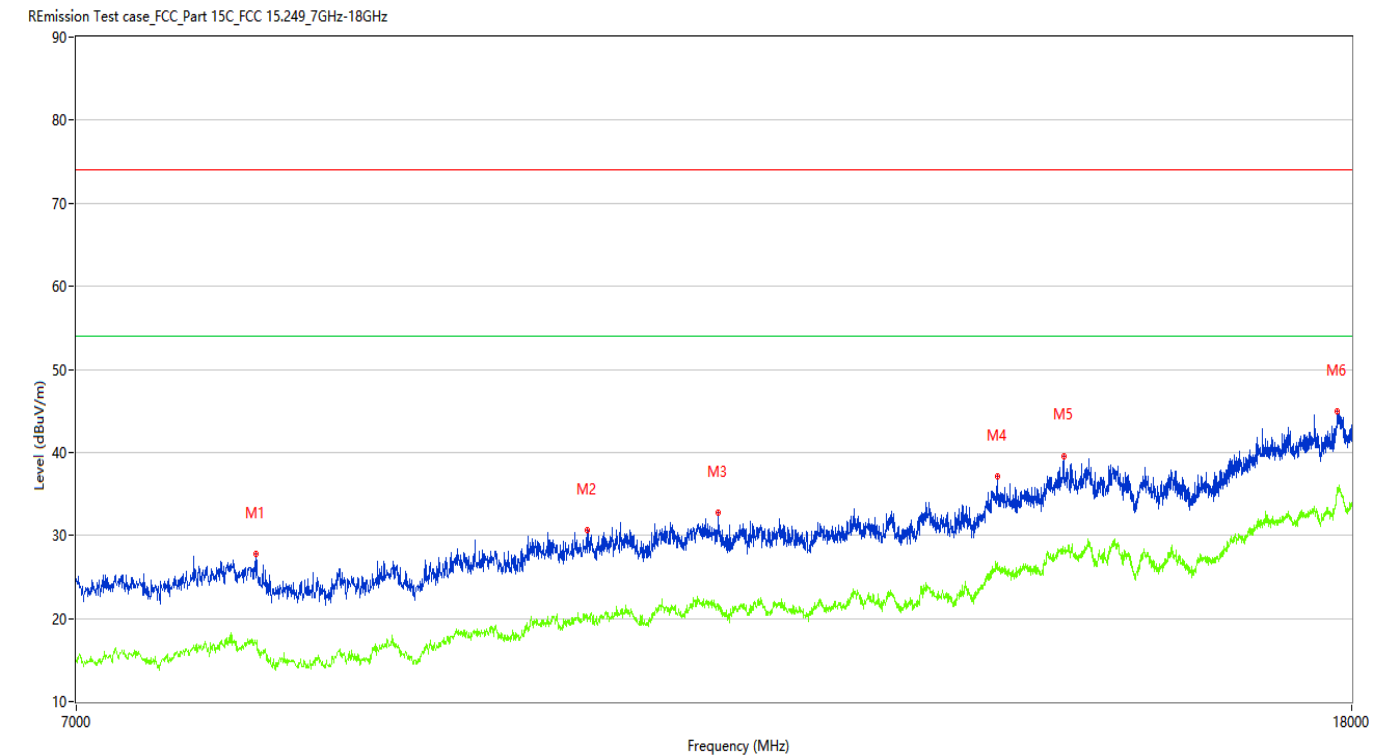
Figure 22: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1302.750	34.20	-13.88	74.0	39.80	Peak	280.50	100	Vertical	Pass
1**	1302.750	24.02	-13.88	54.0	29.98	AV	280.50	100	Vertical	Pass
2	1810.500	35.96	-13.07	74.0	38.04	Peak	335.80	100	Vertical	Pass
2**	1810.500	25.50	-13.07	54.0	28.50	AV	335.80	100	Vertical	Pass
3	2399.000	42.12	-4.93	74.0	31.88	Peak	208.80	100	Vertical	Pass
3**	2399.000	32.06	-4.93	54.0	21.94	AV	208.80	100	Vertical	Pass
4	2957.250	41.76	-4.82	74.0	32.24	Peak	40.50	100	Vertical	Pass
4**	2957.250	31.61	-4.82	54.0	22.39	AV	40.50	100	Vertical	Pass
5	3760.500	42.50	-2.58	74.0	31.50	Peak	360.00	100	Vertical	Pass
5**	3760.500	32.43	-2.58	54.0	21.57	AV	360.00	100	Vertical	Pass
6	4678.000	45.10	-1.54	74.0	28.90	Peak	195.50	100	Vertical	Pass
6**	4678.000	34.73	-1.54	54.0	19.27	AV	195.50	100	Vertical	Pass

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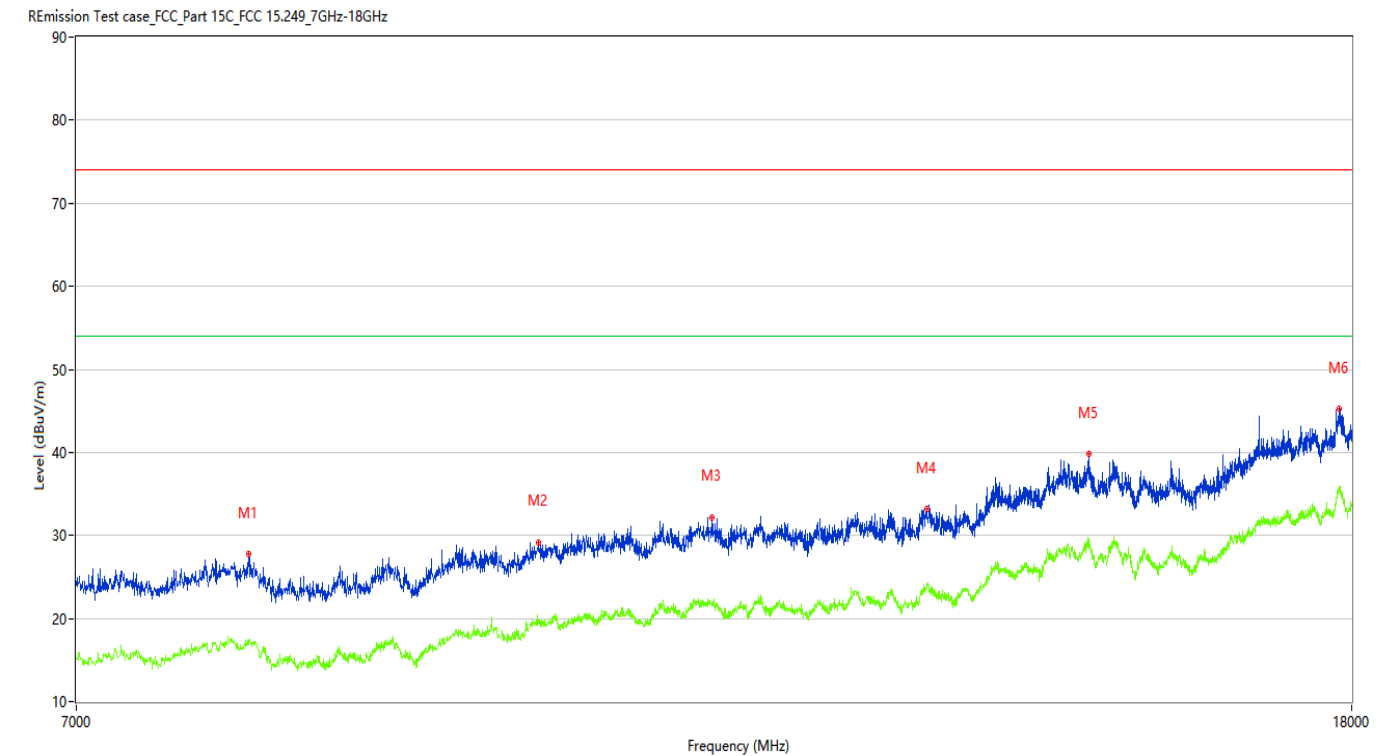
Figure 23: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7998.250	27.80	1.56	74.0	46.20	Peak	218.40	100	Horizontal	Pass
1**	7998.250	16.96	1.56	54.0	37.04	AV	218.40	100	Horizontal	Pass
2	10220.250	30.59	3.48	74.0	43.41	Peak	169.40	100	Horizontal	Pass
2**	10220.250	20.38	3.48	54.0	33.62	AV	169.40	100	Horizontal	Pass
3	11262.500	32.79	4.11	74.0	41.21	Peak	12.30	100	Horizontal	Pass
3**	11262.500	21.07	4.11	54.0	32.93	AV	12.30	100	Horizontal	Pass
4	13844.750	37.10	7.79	74.0	36.90	Peak	61.20	100	Horizontal	Pass
4**	13844.750	26.70	7.79	54.0	27.30	AV	61.20	100	Horizontal	Pass
5	14543.250	39.58	9.69	74.0	34.42	Peak	253.00	100	Horizontal	Pass
5**	14543.250	28.17	9.69	54.0	25.83	AV	253.00	100	Horizontal	Pass
6	17804.751	44.94	15.19	74.0	29.06	Peak	253.00	100	Horizontal	Pass
6**	17804.751	35.71	15.19	54.0	18.29	AV	253.00	100	Horizontal	Pass

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Figure 24: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7954.250	27.80	0.93	74.0	46.20	Peak	197.70	100	Vertical	Pass
1**	7954.250	16.98	0.93	54.0	37.02	AV	197.70	100	Vertical	Pass
2	9860.000	29.18	3.08	74.0	44.82	Peak	350.40	100	Vertical	Pass
2**	9860.000	19.50	3.08	54.0	34.50	AV	350.40	100	Vertical	Pass
3	11204.750	32.19	4.18	74.0	41.81	Peak	66.90	100	Vertical	Pass
3**	11204.750	21.97	4.18	54.0	32.03	AV	66.90	100	Vertical	Pass
4	13138.000	33.13	5.82	74.0	40.87	Peak	173.20	100	Vertical	Pass
4**	13138.000	23.71	5.82	54.0	30.29	AV	173.20	100	Vertical	Pass
5	14812.750	39.85	11.67	74.0	34.15	Peak	314.10	100	Vertical	Pass
5**	14812.750	29.56	11.67	54.0	24.44	AV	314.10	100	Vertical	Pass
6	17832.249	45.22	15.82	74.0	28.78	Peak	350.40	100	Vertical	Pass
6**	17832.249	35.36	15.82	54.0	18.64	AV	350.40	100	Vertical	Pass

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4.1.3 Band Edge

RESULT:

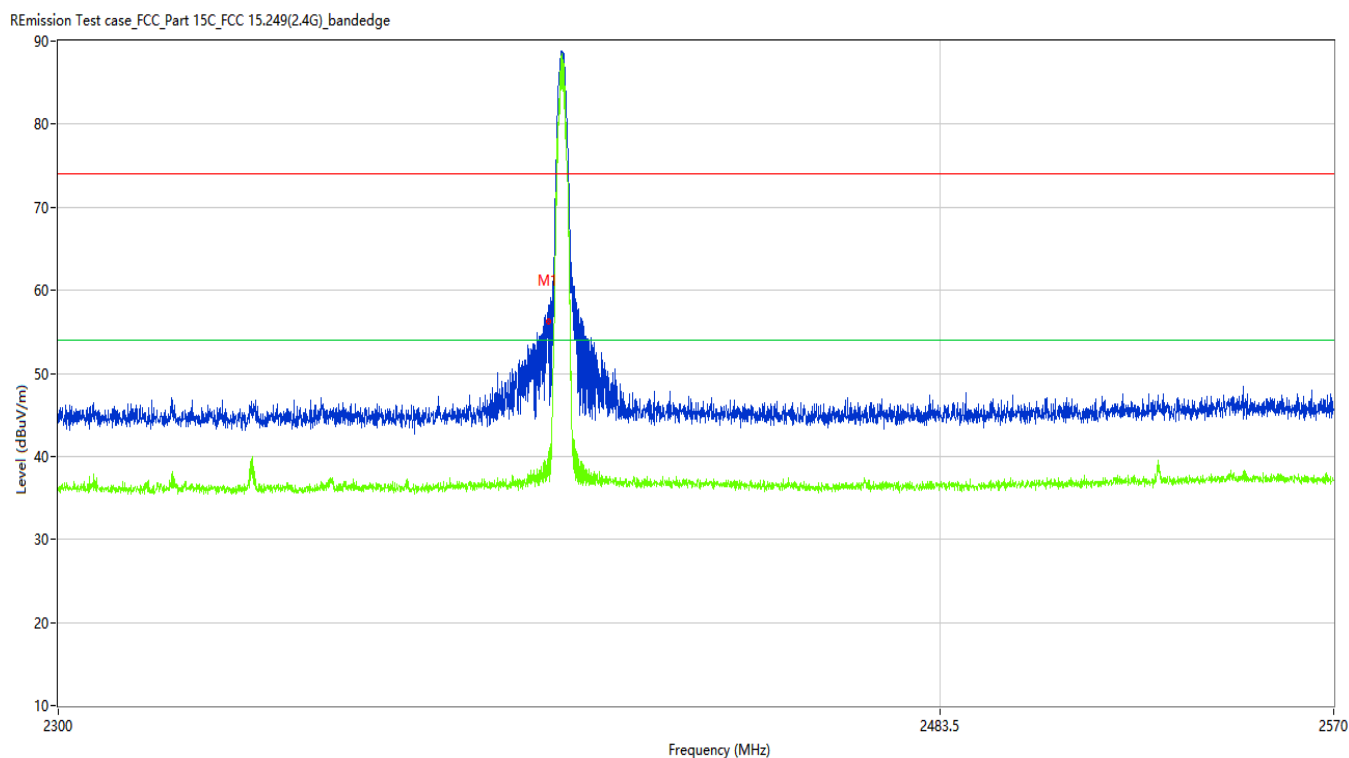
PASS

Test standard : FCC Part 15.249(d), 15.209
Requirement : ANSI C63.10-2020
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/High
Operation Mode : A.i/iii
Ambient temperature : 23.6°C
Relative humidity : 44%

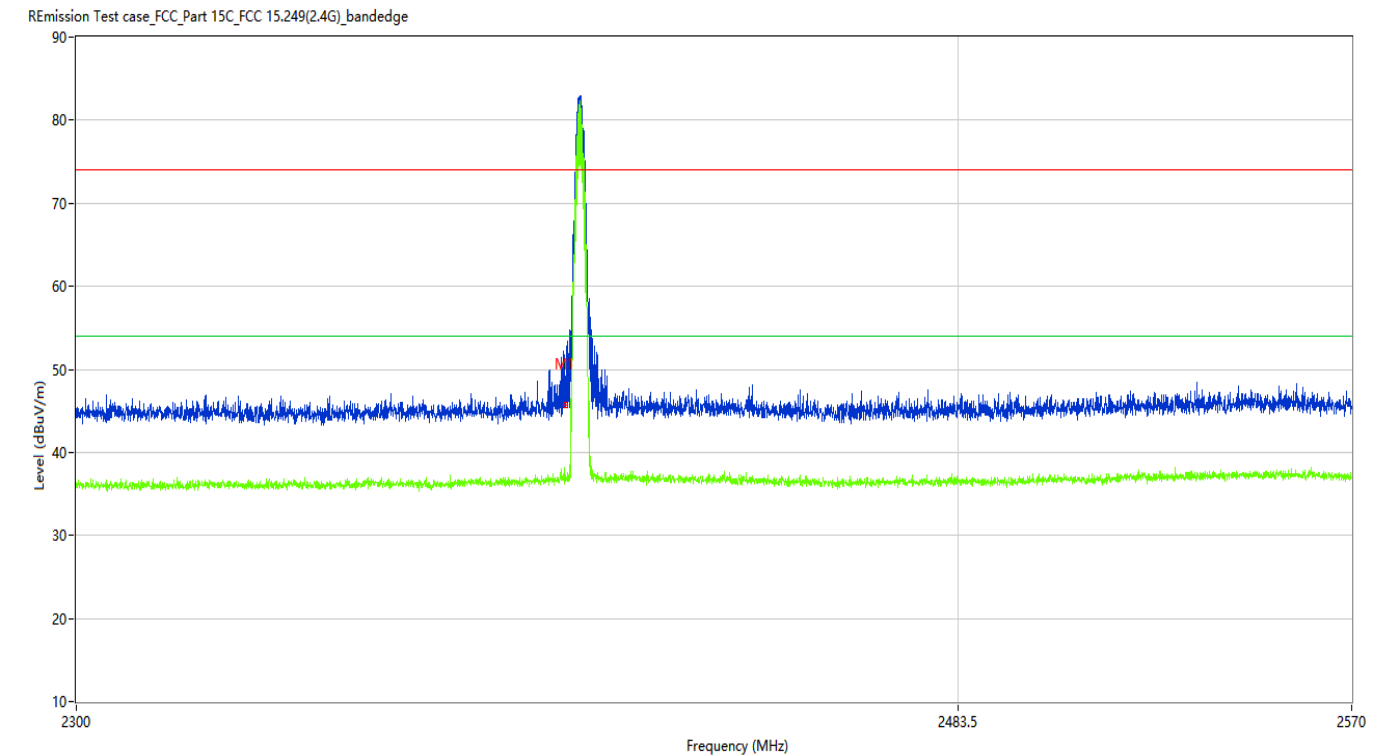
Figure 25: Test plots of Band Edge, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	56.49	-10.39	74.0	17.51	Peak	22.75	100	Horizontal	Pass
1**	2400.000	39.45	-10.39	54.0	14.55	AV	22.75	100	Horizontal	Pass

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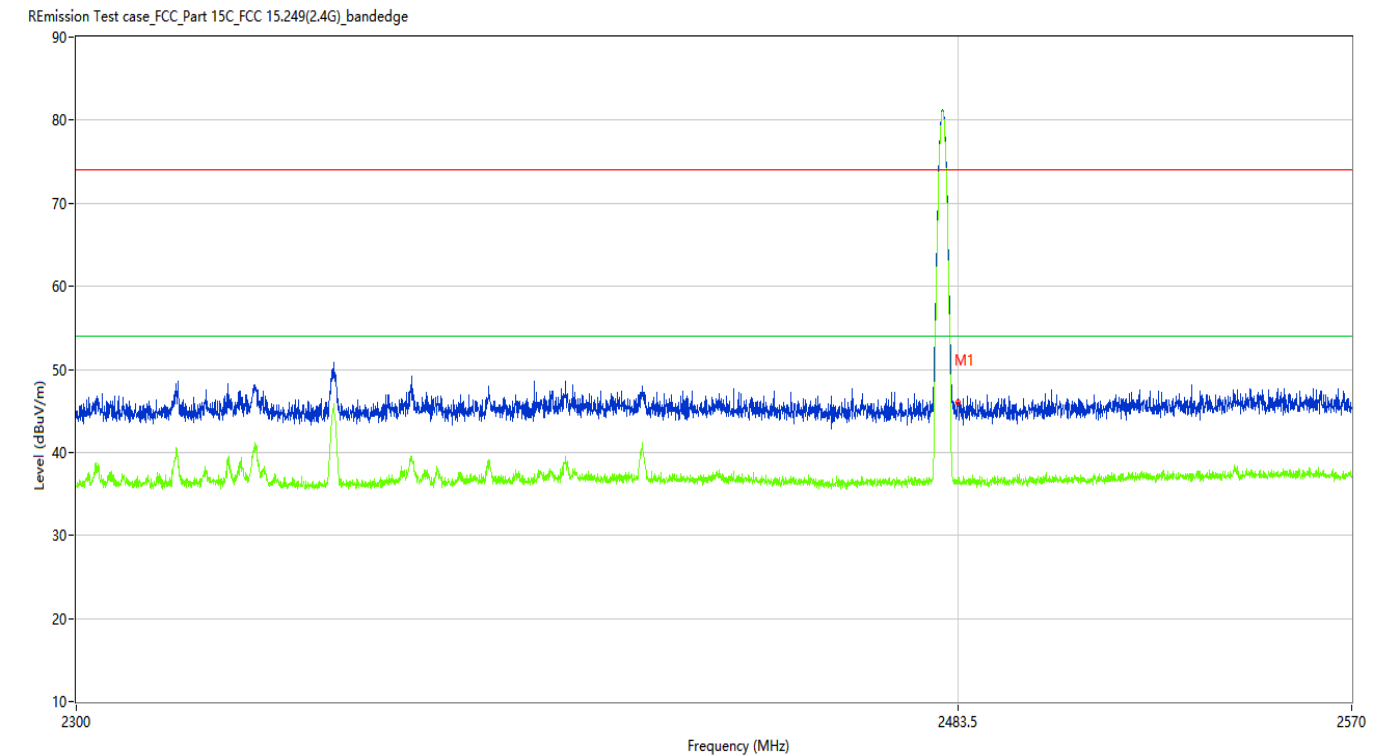
Figure 26: Test plots of Band Edge, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	45.73	-10.39	74.0	28.27	Peak	87.86	100	Vertical	Pass
1**	2400.000	36.73	-10.39	54.0	17.27	AV	87.86	100	Vertical	Pass

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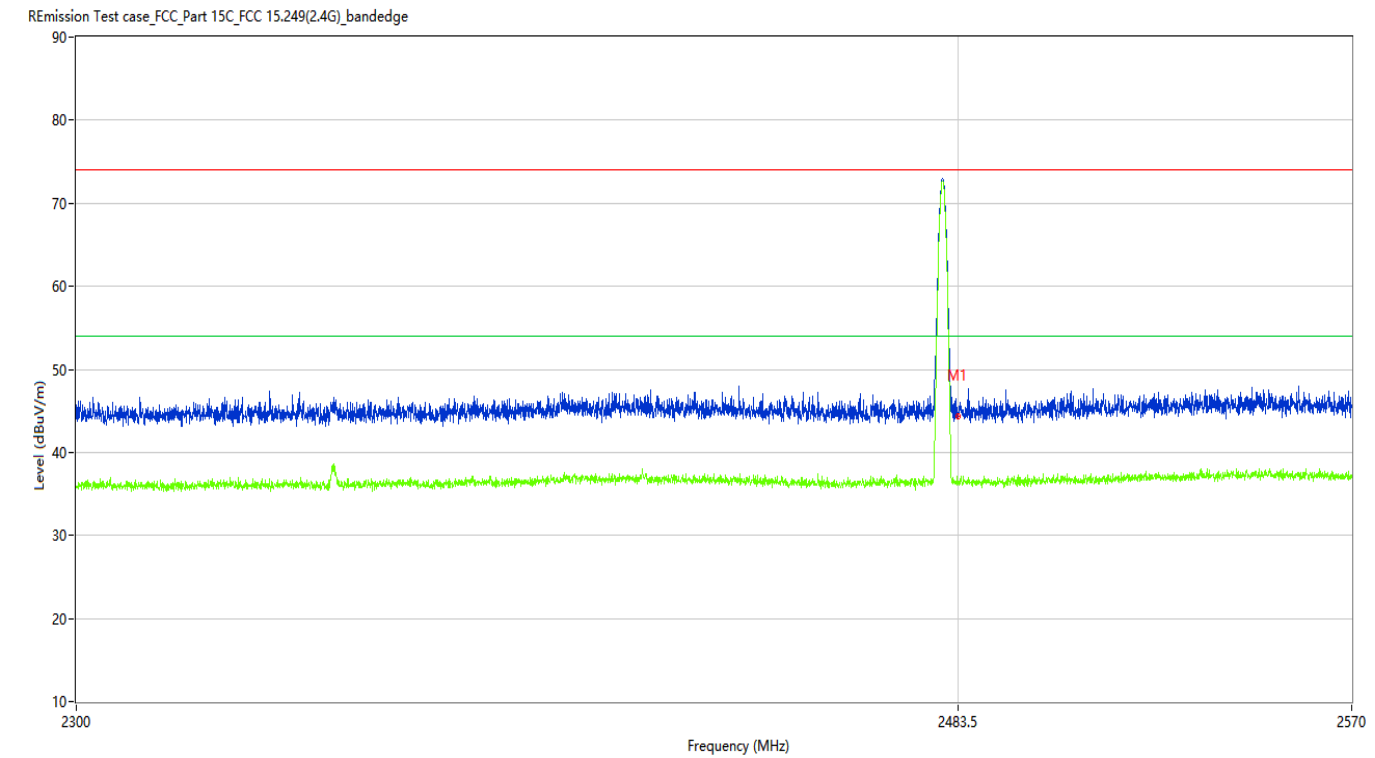
Figure 27: Test plots of Band Edge, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	45.97	-10.74	74.0	28.03	Peak	229.93	100	Horizontal	Pass
1**	2483.500	36.66	-10.74	54.0	17.34	AV	229.93	100	Horizontal	Pass

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Figure 28: Test plots of Band Edge, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	44.53	-10.74	74.0	29.47	Peak	32.84	100	Vertical	Pass
1**	2483.500	36.34	-10.74	54.0	17.66	AV	32.84	100	Vertical	Pass

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4.1.4 20dB Bandwidth and 99% Bandwidth

RESULT: PASS

Test standard : FCC Part 15.215(c)
Requirement : ANSI C63.10-2020
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.i/ii/iii
Ambient temperature : 24.5°C
Relative humidity : 42%

Table 1: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2403	0.906	0.915
	2442	0.803	0.916
	2480	0.802	0.919

Figure 29: The plots of 20dB Bandwidth and 99% Bandwidth, 2403MHz



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Figure 30: The plots of 20dB Bandwidth and 99% Bandwidth, 2442MHz

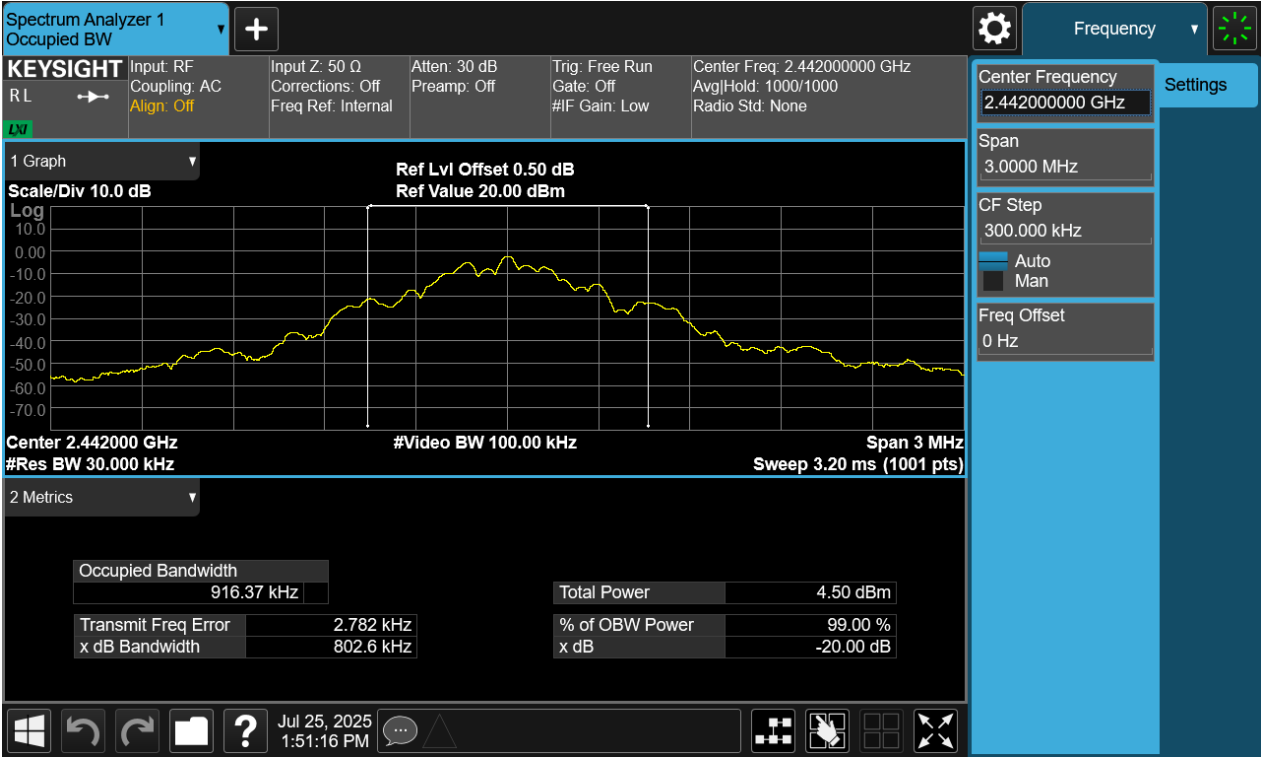


Figure 31: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz



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5 Appendixes

5.1 Photographs of the Sample



All models (RC301C, RC301B, RC301A)

RC301C Model



Front of the sample

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Rear of the sample



Left of the sample

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Right of the sample



Top of the sample

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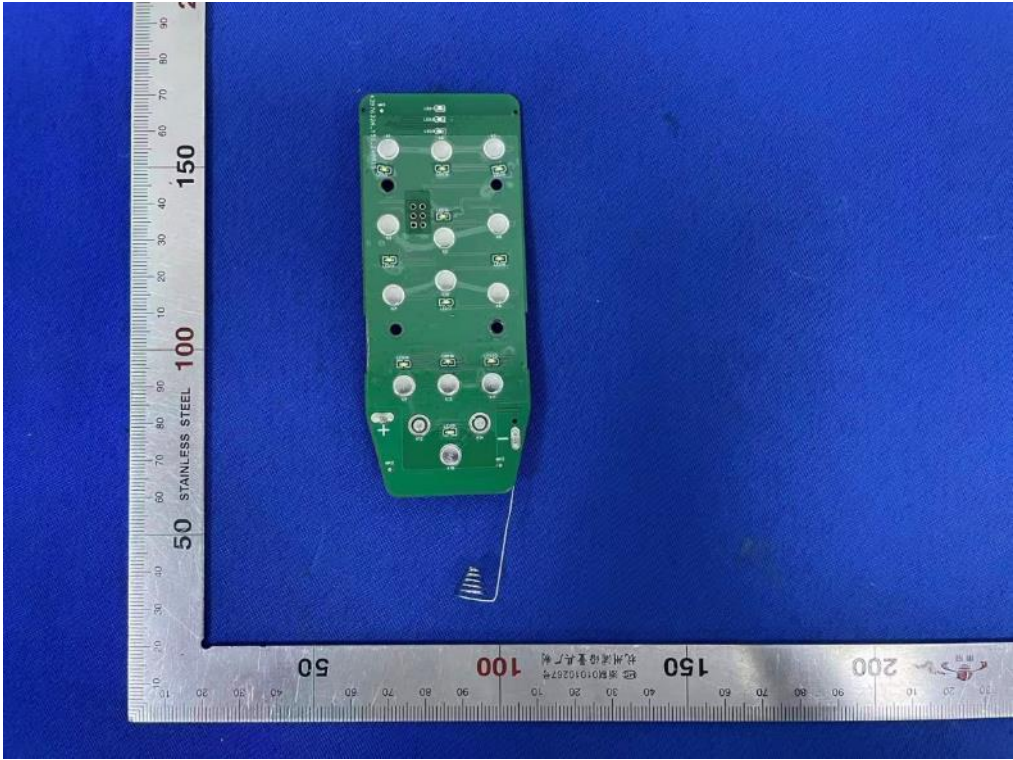
Bottom of the sample



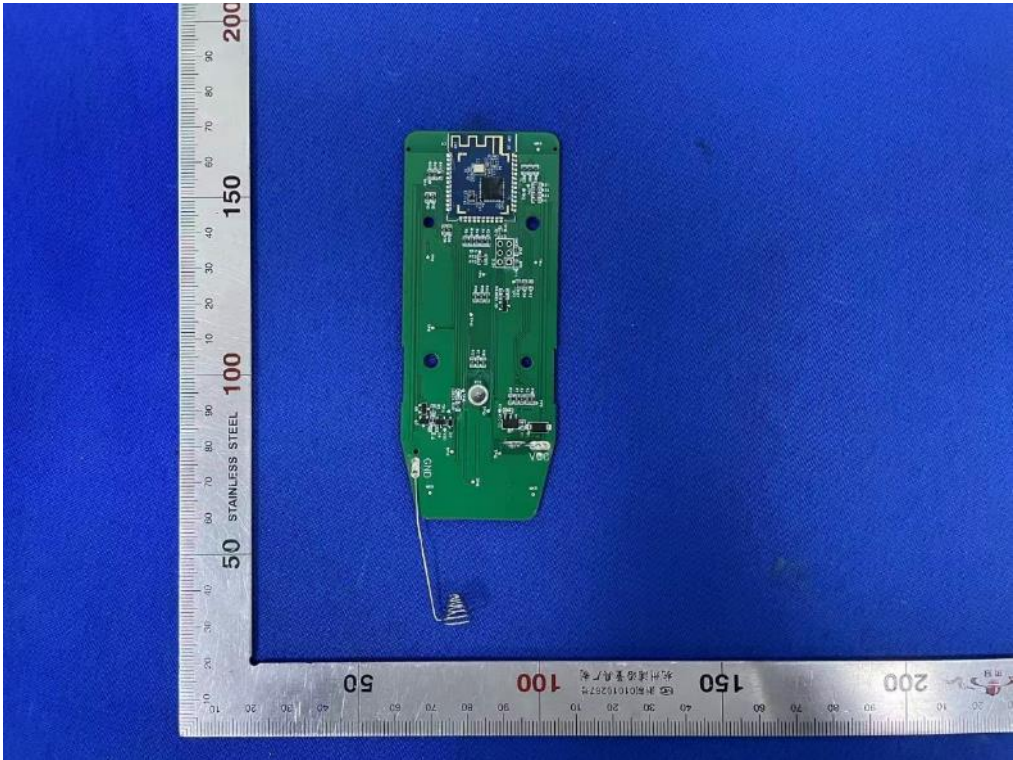
Open of the sample

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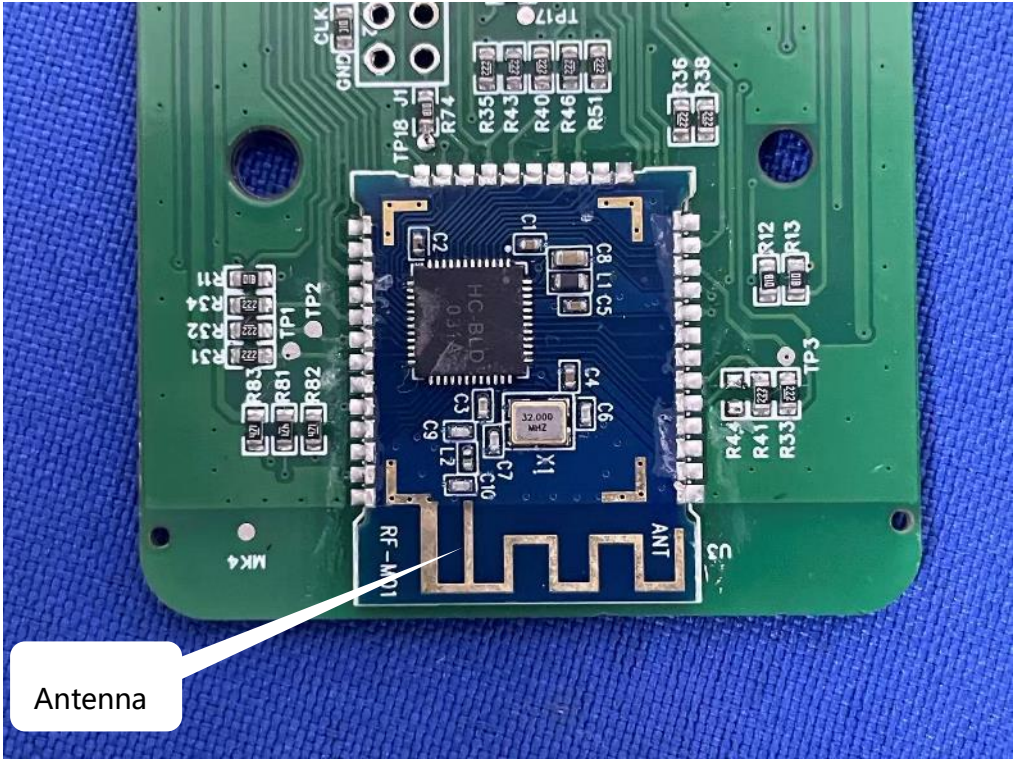


Internal photo-1 of the sample



Internal photo-2 of the sample

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Antenna position of the sample

RC301B Model



Front of the sample

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Rear of the sample



Left of the sample

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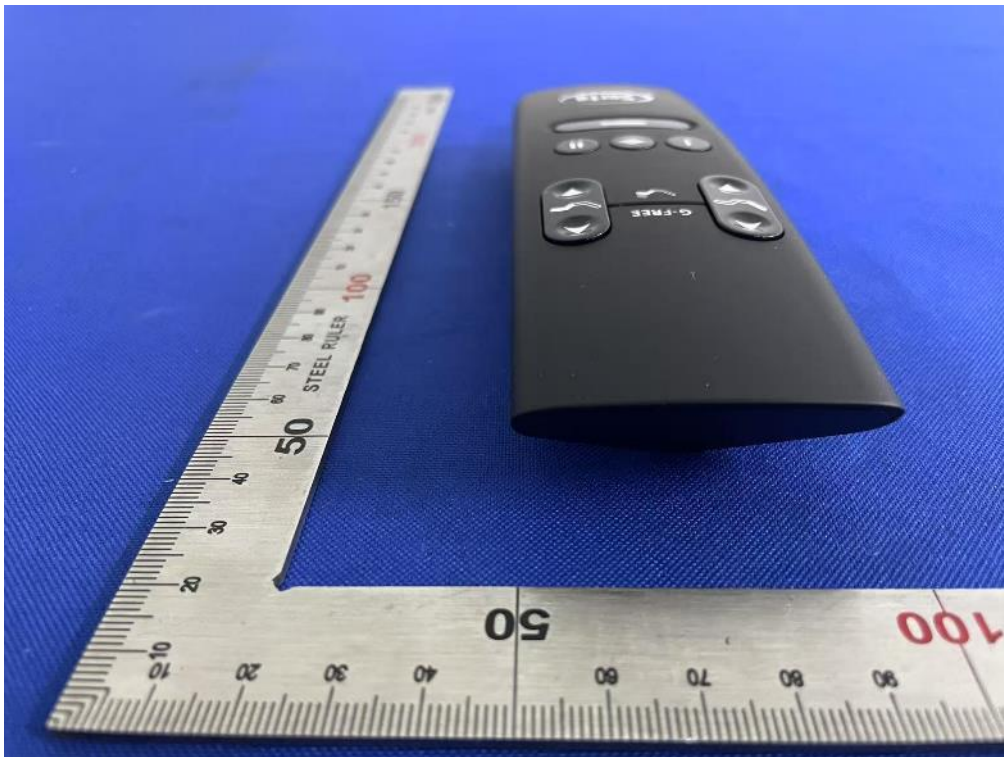
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Right of the sample



Top of the sample

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Bottom of the sample



Open of the sample

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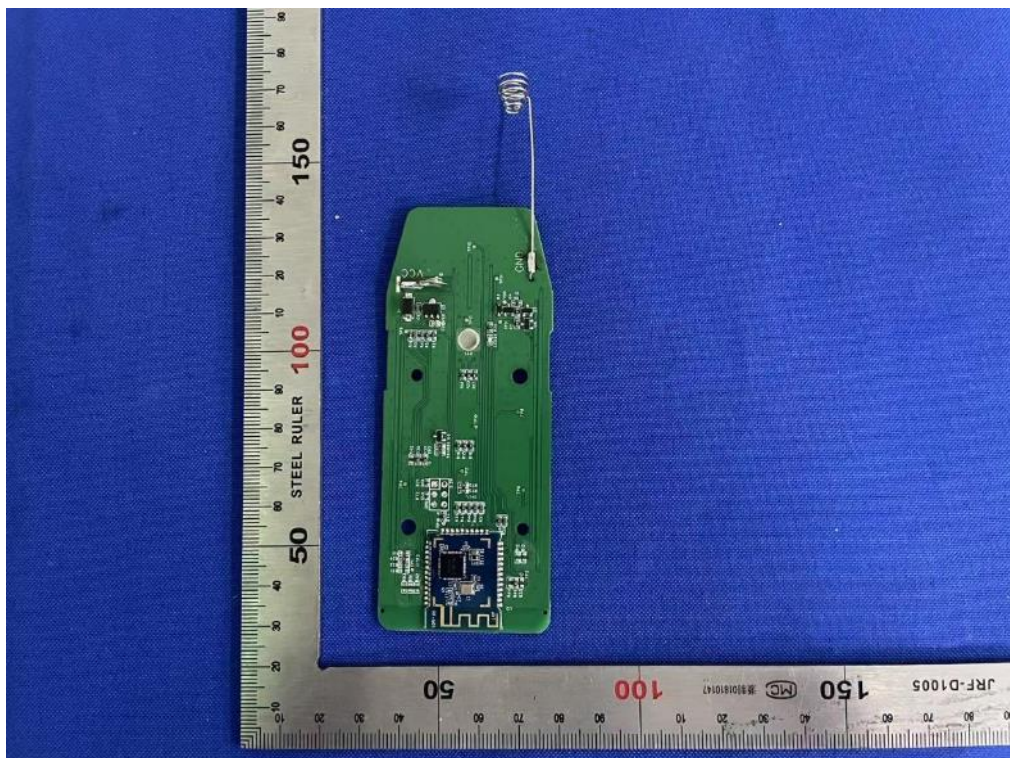
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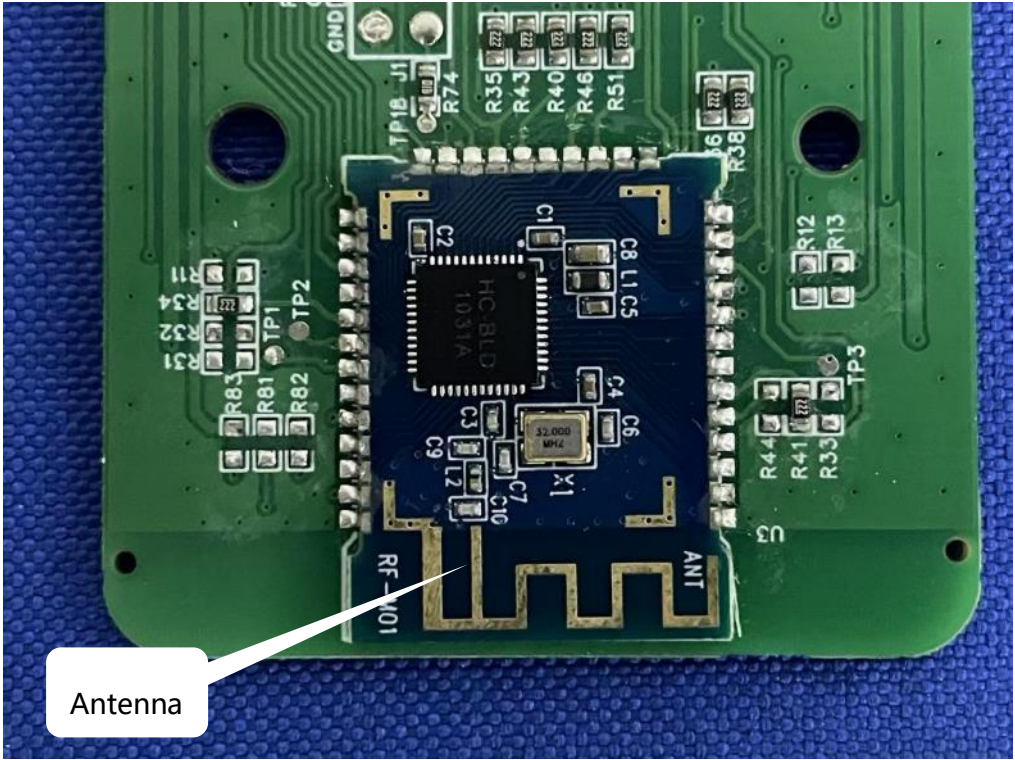


Internal photo-1 of the sample



Internal photo-2 of the sample

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Antenna position of the sample

RC301A Model



Front of the sample

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Rear of the sample



Left of the sample

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Right of the sample



Top of the sample

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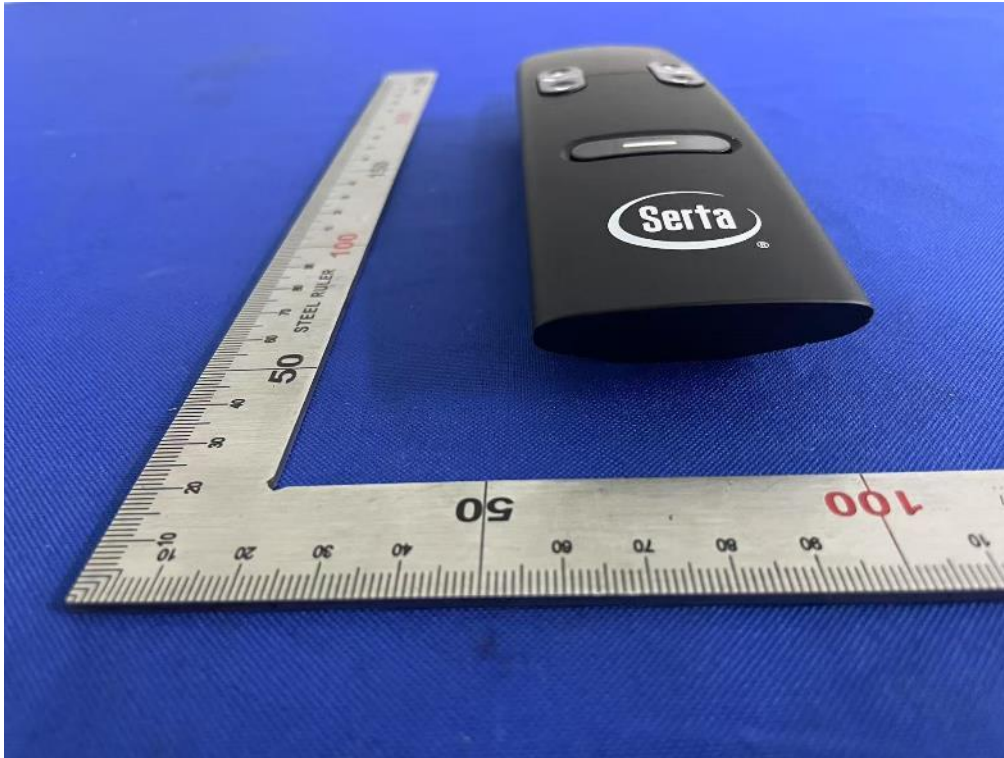
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Bottom of the sample



Open of the sample

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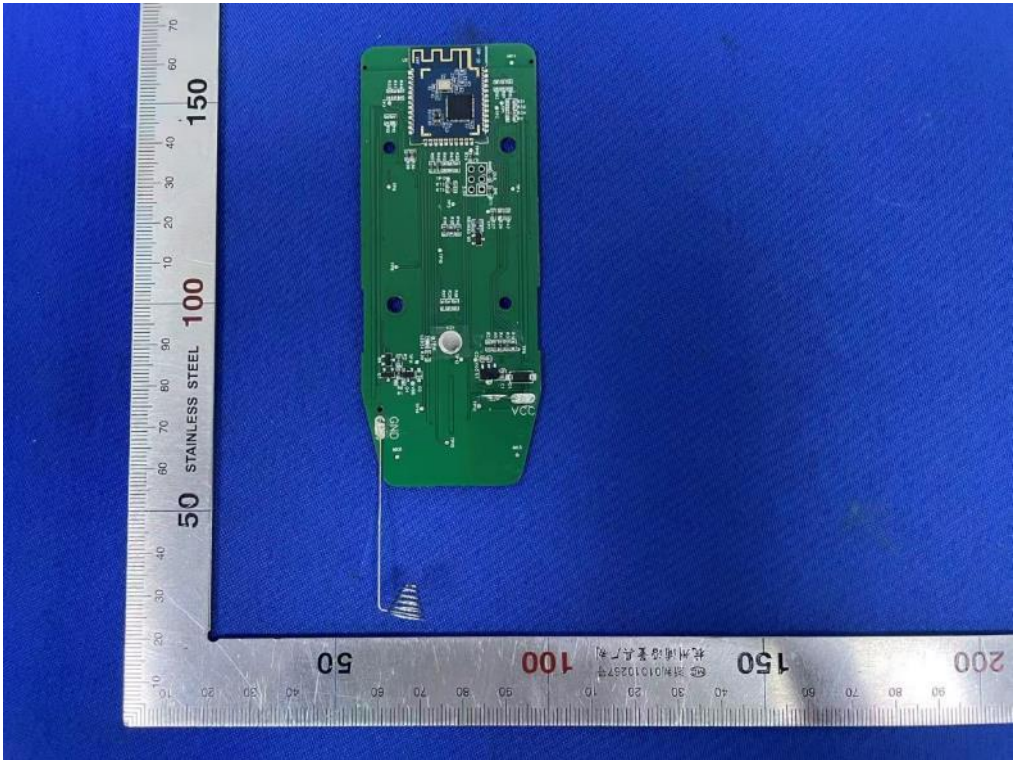
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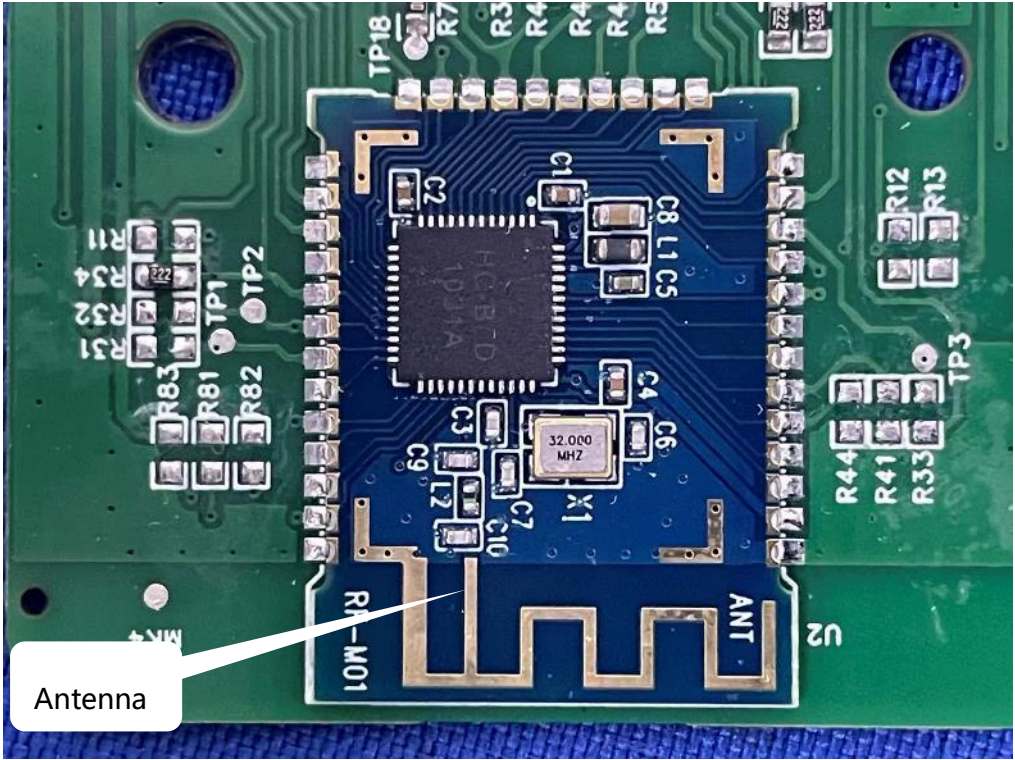


Internal photo-1 of the sample



Internal photo-2 of the sample

TEST REPORT



Antenna position of the sample

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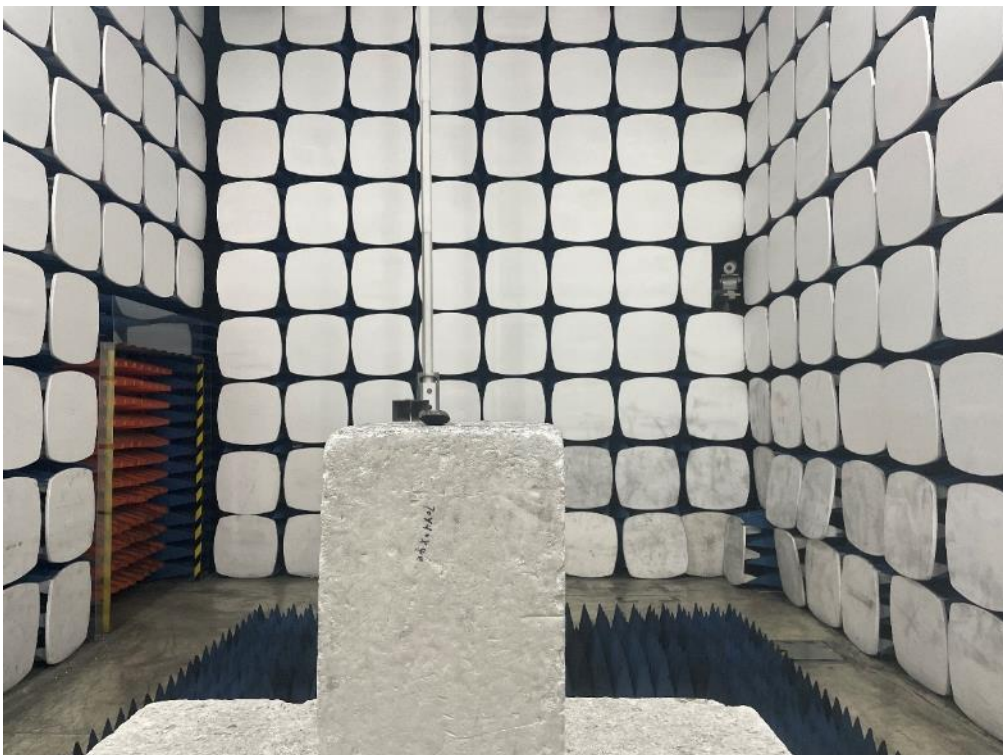
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5.2 Set-up for Spurious Emissions below 1GHz



5.3 Set-up for Spurious Emissions above 1GHz



End of the report