

TEST REPORT

Report No.: SHE22090034-02JE

Date: 2022-11-03

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Applicant : Shenzhen UniStrong Science & Technology Co.,Ltd.
Address of Applicant : B,4-4Factory, Zhengcheng Road, FuyongBaoan District,
Shenzhen, China
Product Name : Rugged Tablet
Brand Name : UniStrong
Model Name : UT30
FCC ID : 2AOPD-UT30
ISED Number : 11546A-UT30
Standards : 47 CFR Part 15 Subpart B
ICES-003(Issue 7, October 2020)
Date of Receipt : 2022-10-21
Date of Test : 2022-10-21-2022-11-03
Date of Issue : 2022-11-03

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:

Chris Chen

(Chris Chen)

Reviewed by:

Oliver Xiang

(Oliver Xiang)

Approved by:

Guoyou Chi

(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory Information

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 Applicant Information

Applicant Company Name	Shenzhen UniStrong Science & Technology Co.,Ltd.
Address	B,4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China
Contact Person	Lili Zheng
Telephone	+86-21-54467182
Email	ll.zheng@unistrong.com
Manufacturer	Shenzhen UniStrong Science & Technology Co.,Ltd.
Manufacturer Address	B,4-4Factory, Zhengcheng Road, FuyongBaoan District, Shenzhen, China

1.3 EUT Description

Product Name	Rugged Tablet
Under Test Model Name	UT30
Series Model Name	/
Description of Model name differentiation	/
Hardware Version	UT30_V103
Software Version	UT30_V1.0
Wireless Description	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA 2/5, CDMA2000 1xRTT/1xEv-Do BC0 4G Network LTE Band 2/4/5/7/12/13/17/25/41 WLAN 802.11b/g/n(HT20) for 2.4GHz, WLAN 802.11a/n(HT20)/ac(VHT20/VHT40/VHT80) for 5.2GHz and 5.8GHz; Bluetooth 4.2 BDR+EDR, BLE GPS, GLONASS, BDS

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1.4 EUT Accessory

Ancillary Equipment 1		
Power Adapter	Brand Name	/
	Model Name	SUC71W
	Rated Input	AC100-240V, 50/60Hz, 0.7A
	Rated Output	DC5V, 3A
	Manufacturer	Aquilstar Technology Co.,Ltd
	Manufacturer Address	/

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2 Summary of Test Result

2.1 Test Standards

No.	Identity	Document Title
1	FCC 47 CFR Part 15 Subpart B	Unintentional Radiators
2	ICES-003 (Issue 7, October 2020)	Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement

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

2.2 Reference Standards

No.	Identity	Document Title
1	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

2.3 Test Result

No.	Description	FCC Rule	ISED Rule	Result
1	AC Conducted Emission	15.107	IECS-003 3.2.1	PASS
2	Radiated Emission	15.109	ICES-003 3.2.2	PASS

2.4 Test Uncertainty

Measurement	Uncertainty
Conducted emission (9kHz-30MHz)	2.68 dB
Radiated emission (30MHz-1GHz)	5.00 dB
Radiated emission (1GHz-18GHz)	4.88 dB

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.

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3 General Test Configurations

3.1 Test Environments

During the measurement, the environmental conditions complied with the range listed as below.

Ambient Temperature	15°C to 35°C
Ambient Relative Humidity	25% to 75%
Ambient Pressure	86kPa to 106kPa

3.2 Test Equipment List

Instrument	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2022-06-10	2023-06-09
V-network	SCHWARZBECK	NSLK 8127	8127-902	2022-06-10	2023-06-09
Attenuator	SCHWARZBECK	VTSD 9561-F N	/	2022-06-10	2023-06-09
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2022-06-10	2023-06-09
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2022-06-10	2023-06-09
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08	2023-06-07
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2023-06-07
Radio Communication Tester	Rohde & Schwarz	CMW500	116330	2022-08-02	2022-08-01
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2022-06-10	2023-06-09
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2022-06-10	2023-06-09
Test Software	BL	BL410_E	N/A	N/A	N/A

3.3 Test Enclosure List

Instrument	Manufacturer	Model	Serial No.	Length
/	/	/	/	/

3.4 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Mode No.	Description
Traffic Test Mode	
1	GSM 850 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
2	GSM 850 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
3	GSM 850 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
4	GSM 850 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
5	GSM 850 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
6	GSM 850 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
7	GSM 850 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
8	GSM 850 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX

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9	GSM 850 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
10	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
11	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
12	GSM 1900 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
13	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
14	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
15	GSM 1900 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
16	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
17	GSM 1900 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
18	GSM 1900 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
19	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
20	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
21	WCDMA Band 2 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
22	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
23	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
24	WCDMA Band 2 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
25	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
26	WCDMA Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
27	WCDMA Band 2 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
28	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
29	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
30	WCDMA Band 5 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
31	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
32	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
33	WCDMA Band 5 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
34	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
35	WCDMA Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
36	WCDMA Band 5 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
37	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
38	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
39	CDMA BC0 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
40	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
41	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
42	CDMA BC0 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
43	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
44	CDMA BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
45	CDMA BC0 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
46	EVDO BC0 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
47	EVDO BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
48	EVDO BC0 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
49	EVDO BC0 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX

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50	EVDO BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
51	EVDO BC0+ Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
52	EVDO BC0+ Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
53	EVDO BC0 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
54	EVDO BC0 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
55	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
56	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
57	LTE Band 2 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
58	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
59	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
60	LTE Band 2 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
61	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
62	LTE Band 2 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
63	LTE Band 2 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
64	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
65	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
66	LTE Band 4 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
67	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
68	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
69	LTE Band 4 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
70	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
71	LTE Band 4 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
72	LTE Band 4 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
73	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
74	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
75	LTE Band 5 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
76	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
77	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
78	LTE Band 5 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
79	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
80	LTE Band 5 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
81	LTE Band 5 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
82	LTE Band 8 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
83	LTE Band 12 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
84	LTE Band 12 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
85	LTE Band 12 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
86	LTE Band 12 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
87	LTE Band 12 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
88	LTE Band 12 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
89	LTE Band 12 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
90	LTE Band 12 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX

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91	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
92	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
93	LTE Band 13 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
94	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
95	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
96	LTE Band 13 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
97	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
98	LTE Band 13 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
99	LTE Band 13 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
100	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
101	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
102	LTE Band 17 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
103	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
104	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
105	LTE Band 17 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
106	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
107	LTE Band 17 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
108	LTE Band 17 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
109	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
110	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
111	LTE Band 25 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
112	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
113	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
114	LTE Band 25 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
115	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
116	LTE Band 25 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
117	LTE Band 25 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
118	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GPS RX
119	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(5G) + GPS RX
120	LTE Band 41 + Adapter + Battery + BT Link + 5.8G SRD + GPS RX
121	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(2.4G) + GLONASS RX
122	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(5G) + GLONASS RX
123	LTE Band 41 + Adapter + Battery + BT Link + 5.8G SRD + GLONASS RX
124	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(2.4G) + BDS RX
125	LTE Band 41 + Adapter + Battery + BT Link + WIFI Link(5G) + BDS RX
126	LTE Band 41 + Adapter + Battery + BT Link + 5.8G SRD + BDS RX
Idle Test Mode	
127	GSM Idle + Adapter + Battery
128	WCDMA Idle + Adapter + Battery
129	CDMA Idle + Adapter + Battery
130	LTE Idle + Adapter + Battery

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Amusement Test Mode	
131	Adapter + Battery + Camera On
132	Adapter + Battery + Video Playing
133	Battery + Notebook Computer + USB cable

Remark: To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. The test data of the worst-case condition was recorded in this report. Test Mode 1 and 133 are the worst modes in this report.

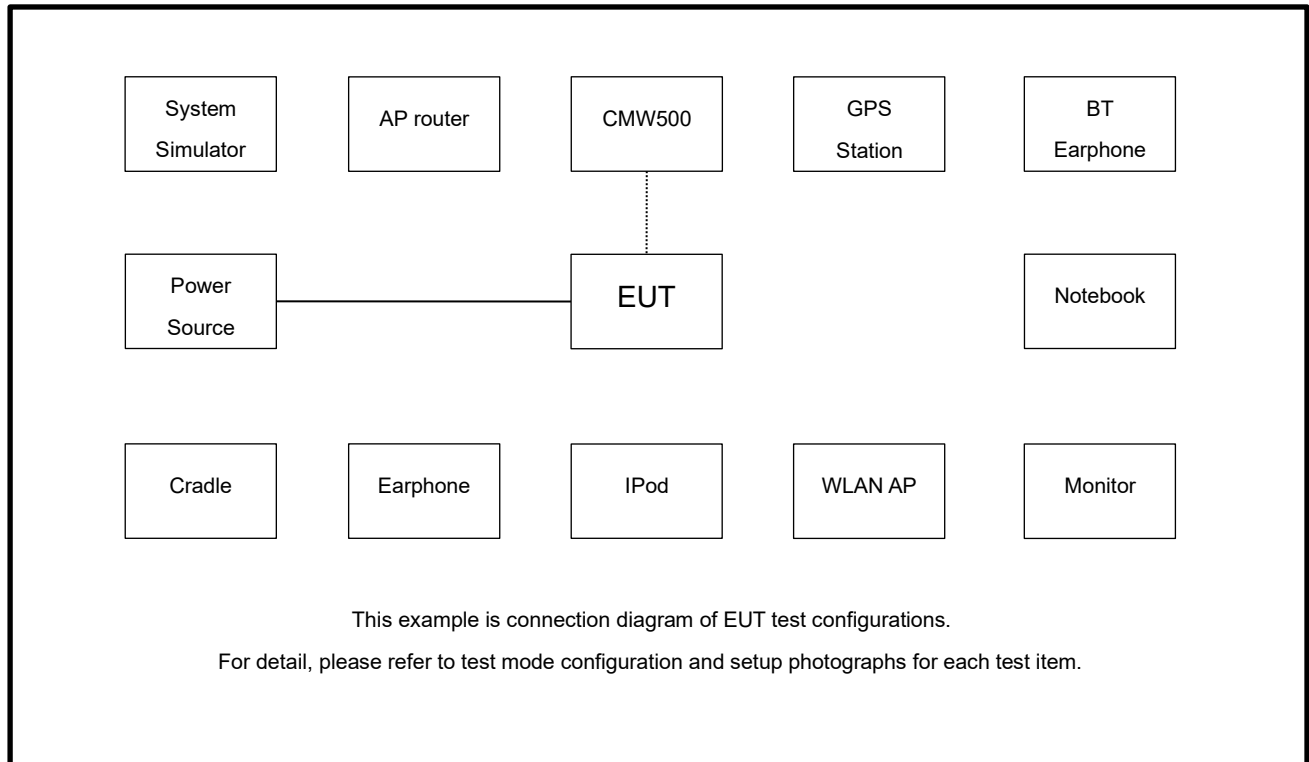
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3.5 Connection Diagram of Test System



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4 Test Result

4.1 Test of Conducted Emission Measurement

4.1.1 Limits of Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission	Conducted limited(dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

4.1.2 Measuring Instruments

The measuring equipment is listed in the section 3.2 of this test report.

4.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

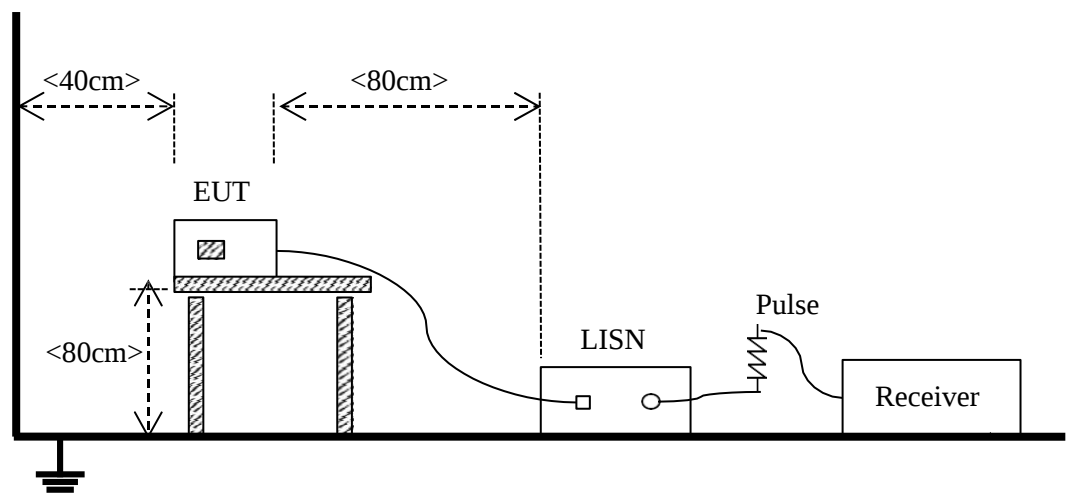
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4.1.4 Test Setup



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4.1.5 Test Result of Conducted Emission

Test Mode:		1						
Test Voltage:		AC120V/60Hz			Phase:		Line	

C:Emission Test case_FCC_CE_FCC PART 15B_Class B

The graph displays the conducted emission test results for FCC Part 15B Class B. The y-axis represents the Level in dBuV, ranging from 20 to 80. The x-axis represents the Frequency in MHz, ranging from 0.15 to 30. A blue line shows the measured emission level, which is compared against two limit lines: an orange line for the 0.15 to 1 MHz range and a green line for the 1 to 30 MHz range. The measured level is consistently below the limit lines. Six measurement points are marked with red dots and labeled M1 through M6. The measured level is approximately 42.40 dBuV at 0.174 MHz (M1) and 53.32 dBuV at 7.672 MHz (M6).

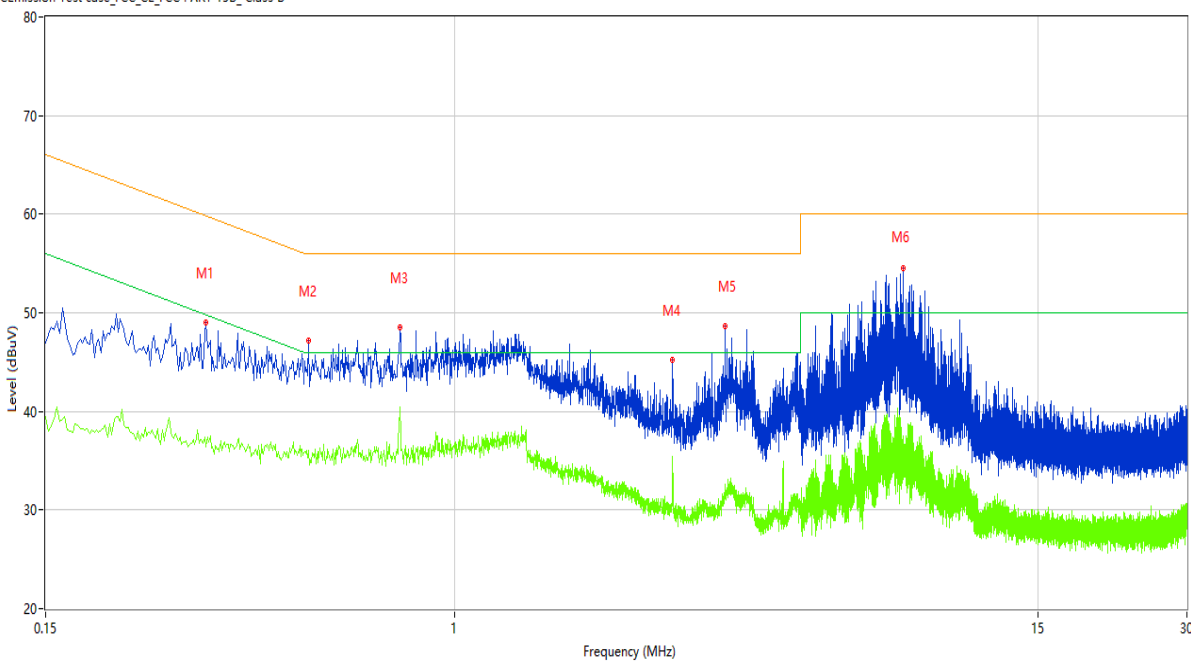
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.174	42.40	10.28	64.77	-22.37	Peak	L	Pass
1*	0.174	28.80	10.28	64.77	-35.97	QP	L	Pass
1**	0.174	41.02	10.28	54.77	-13.75	AV	L	Pass
2	0.360	31.69	10.26	58.73	-27.04	Peak	L	Pass
2*	0.360	22.93	10.26	58.73	-35.80	QP	L	Pass
2**	0.360	36.46	10.26	48.73	-12.27	AV	L	Pass
3	1.038	37.98	10.23	56.00	-18.02	Peak	L	Pass
3*	1.038	31.67	10.23	56.00	-24.33	QP	L	Pass
3**	1.038	36.83	10.23	46.00	-9.17	AV	L	Pass
4	2.724	40.26	10.18	56.00	-15.74	Peak	L	Pass
4*	2.724	34.99	10.18	56.00	-21.01	QP	L	Pass
4**	2.724	38.71	10.18	46.00	-7.29	AV	L	Pass
5	4.542	43.02	10.26	56.00	-12.98	Peak	L	Pass
5*	4.542	36.84	10.26	56.00	-19.16	QP	L	Pass
5**	4.542	38.11	10.26	46.00	-7.89	AV	L	Pass
6	7.672	53.32	10.36	60.00	-6.68	Peak	L	Pass
6*	7.672	46.52	10.36	60.00	-13.48	QP	L	Pass
6**	7.672	35.13	10.36	50.00	-14.87	AV	L	Pass

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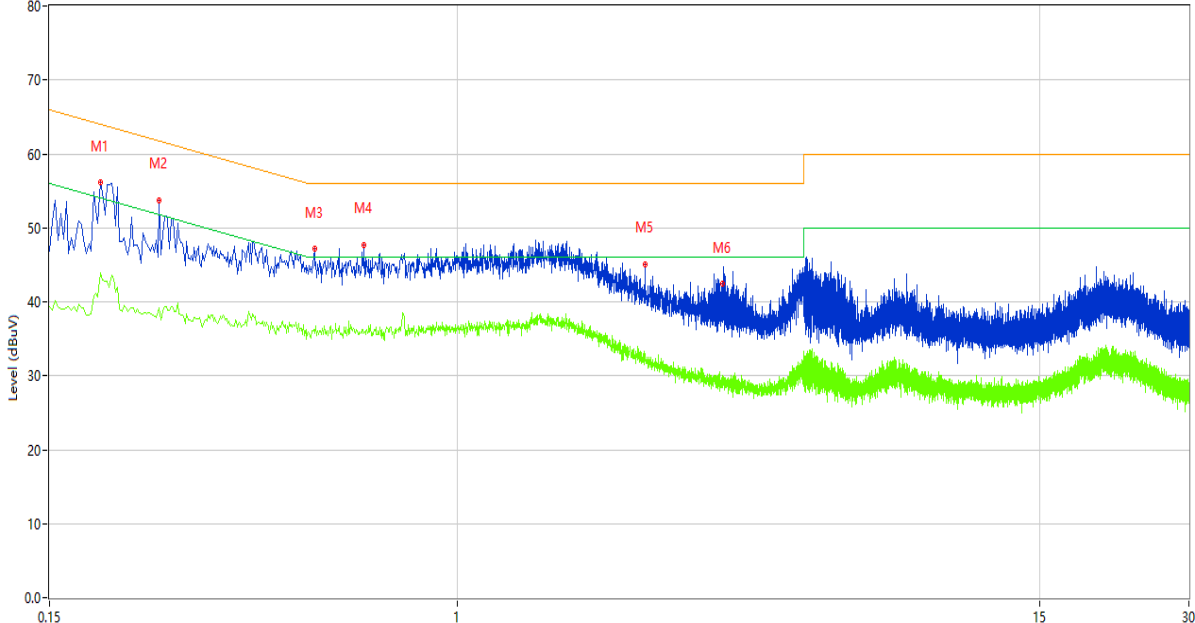
Test Mode:		1						
Test Voltage:		AC120V/60Hz			Phase:		Neutral	
CEmission Test case_FCC_CE_FCC PART 15B_Class B 								
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.316	39.27	10.24	59.81	-20.54	Peak	N	Pass
1*	0.316	35.31	10.24	59.81	-24.50	QP	N	Pass
1**	0.316	36.37	10.24	49.81	-13.44	AV	N	Pass
2	0.508	40.93	10.20	56.00	-15.07	Peak	N	Pass
2*	0.508	32.83	10.20	56.00	-23.17	QP	N	Pass
2**	0.508	35.99	10.20	46.00	-10.01	AV	N	Pass
3	0.778	40.34	10.19	56.00	-15.66	Peak	N	Pass
3*	0.778	31.77	10.19	56.00	-24.23	QP	N	Pass
3**	0.778	40.03	10.19	46.00	-5.97	AV	N	Pass
4	2.752	43.37	10.22	56.00	-12.63	Peak	N	Pass
4*	2.752	33.76	10.22	56.00	-22.24	QP	N	Pass
4**	2.752	32.06	10.22	46.00	-13.94	AV	N	Pass
5	3.512	47.38	10.25	56.00	-8.62	Peak	N	Pass
5*	3.512	38.01	10.25	56.00	-17.99	QP	N	Pass
5**	3.512	32.23	10.25	46.00	-13.77	AV	N	Pass
6	8.034	55.24	10.47	60.00	-4.76	Peak	N	Pass
6*	8.034	43.17	10.47	60.00	-16.83	QP	N	Pass
6**	8.034	37.50	10.47	50.00	-12.50	AV	N	Pass

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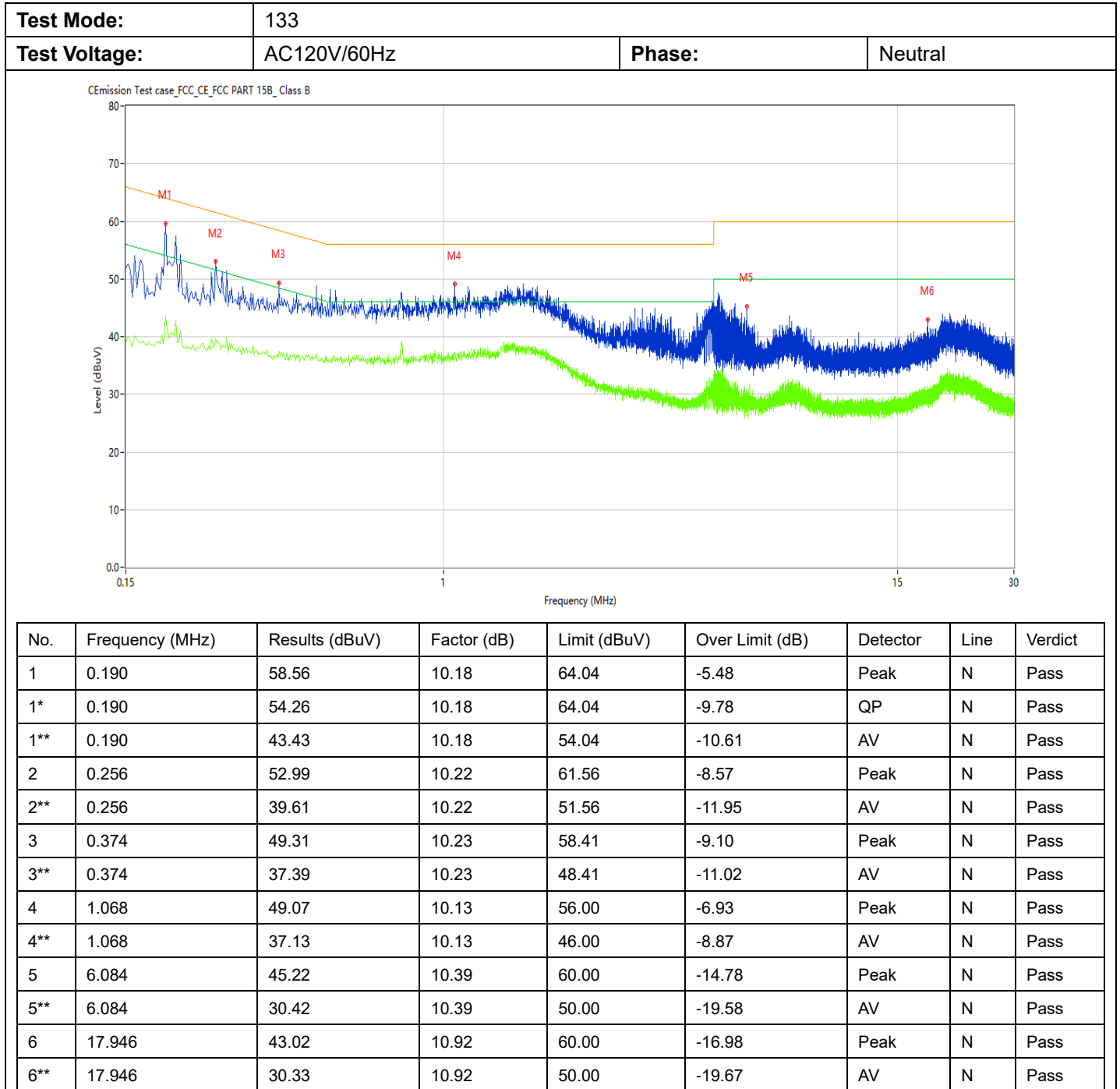
Test Mode:		133						
Test Voltage:		AC120V/60Hz			Phase:		Line	
CEmission Test case_FCC_CE_FCC PART 15B_Class B 								
No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.190	56.77	10.18	64.04	-7.27	Peak	L	Pass
1*	0.190	53.60	10.18	64.04	-10.44	QP	L	Pass
1**	0.190	43.99	10.18	54.04	-10.05	AV	L	Pass
2	0.250	53.69	10.22	61.76	-8.07	Peak	L	Pass
2**	0.250	39.19	10.22	51.76	-12.57	AV	L	Pass
3	0.514	47.15	10.20	56.00	-8.85	Peak	L	Pass
3**	0.514	35.84	10.20	46.00	-10.16	AV	L	Pass
4	0.648	47.75	10.20	56.00	-8.25	Peak	L	Pass
4**	0.648	35.73	10.20	46.00	-10.27	AV	L	Pass
5	2.392	45.13	10.20	56.00	-10.87	Peak	L	Pass
5**	2.392	32.25	10.20	46.00	-13.75	AV	L	Pass
6	3.434	42.37	10.25	56.00	-13.63	Peak	L	Pass
6**	3.434	29.57	10.25	46.00	-16.43	AV	L	Pass

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4.2 Test of Radiated Emission Measurement

4.2.1 Limits of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<FCC Class B Limit>

Frequency (MHz)	Field Strength (uV/m)		Field Strength (dBuV/m)		Measurement distance (meters)
30-88	100		40		3
88-216	150		43.5		3
216-960	200		46		3
Above 960	500		54		3
Above 1000	AV	PK	AV	PK	3
	500	5000	54	74	

<IC Class B Limit>

Frequency (MHz)	Field Strength (dBuV/m)		Measurement distance (meters)
30-88	40		3
88-216	43.5		3
216-230	46		3
230-960	47		3
Above 960	54		3
Above 1000	AV	PK	3
	54	74	

4.2.2 Measuring Instruments

The measuring equipment is listed in the section 3.2 of this test report.

4.2.3 Test Procedure

1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower

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(from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

TEST REPORT

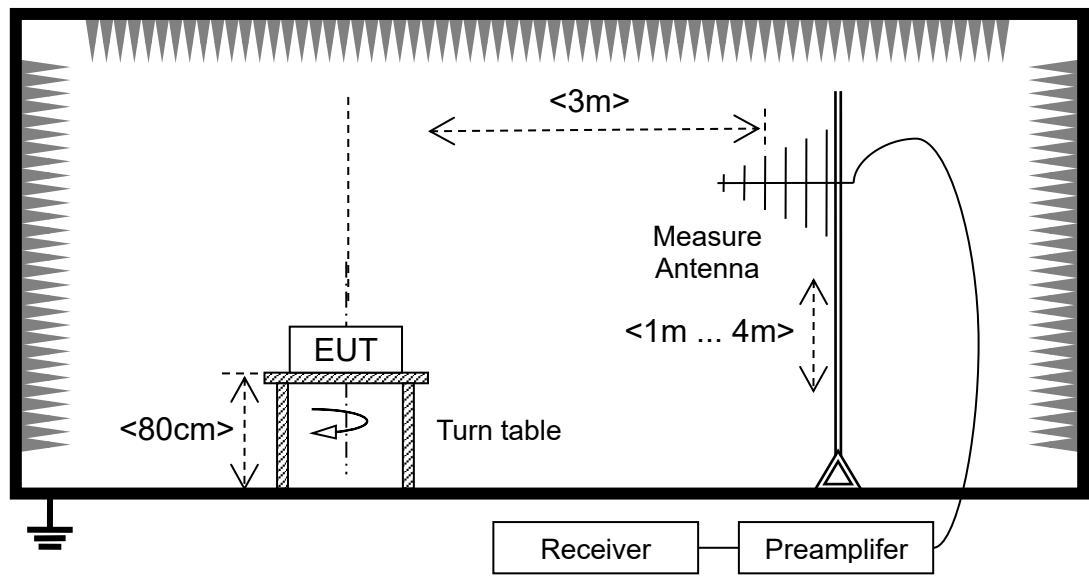
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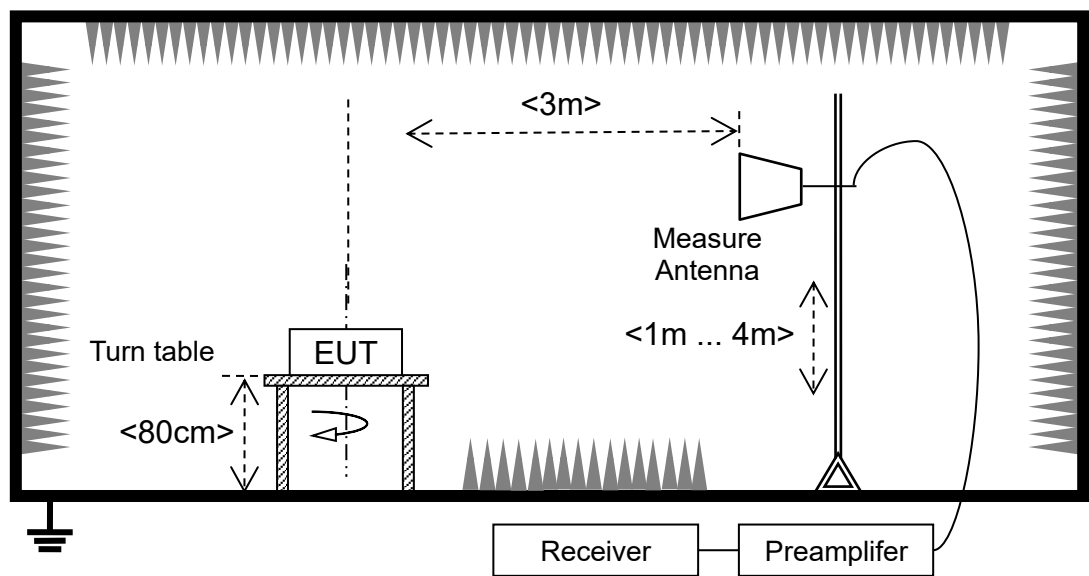
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4.2.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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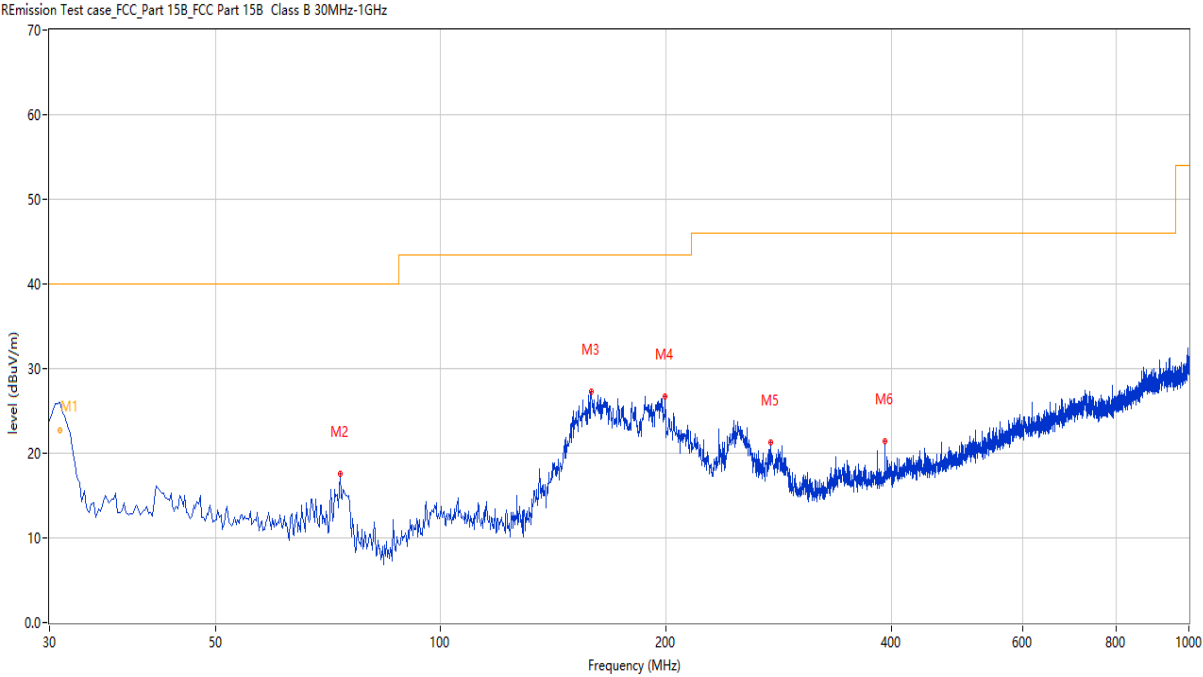
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4.2.5 Test Result of Radiated Emission

Test Mode:	1	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal	FCC



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.994	32.03	-29.51	40.0	-7.97	Peak	115.90	126	Horizontal	Pass
1*	30.994	22.72	-29.51	40.0	-17.28	QP	115.90	126	Horizontal	Pass
2	73.397	17.55	-30.57	40.0	-22.45	Peak	255.10	100	Horizontal	Pass
3	158.978	27.28	-29.50	43.5	-16.22	Peak	250.60	100	Horizontal	Pass
4	199.465	26.68	-26.14	43.5	-16.82	Peak	236.50	100	Horizontal	Pass
5	276.318	21.25	-24.36	46.0	-24.75	Peak	79.00	100	Horizontal	Pass
6	392.447	21.41	-21.10	46.0	-24.59	Peak	125.20	100	Horizontal	Pass

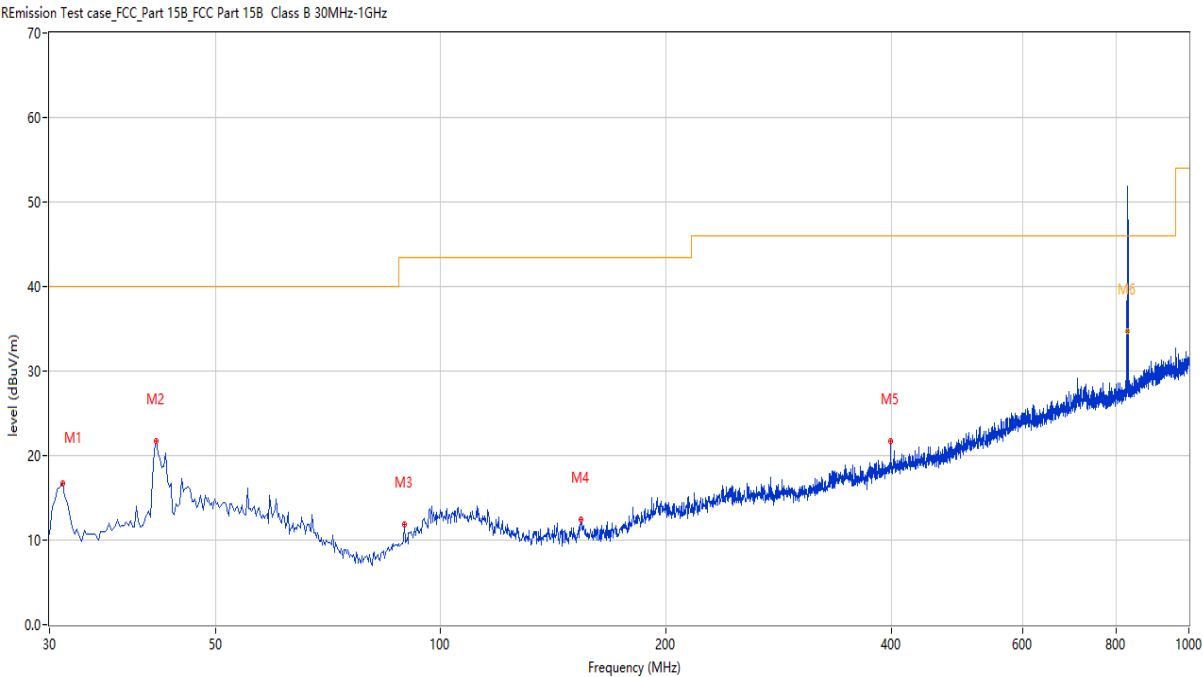
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Test Mode:	1	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Vertical	FCC



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.212	16.70	-29.43	40.0	-23.30	Peak	67.70	100	Vertical	Pass
2	41.637	21.71	-25.81	40.0	-18.29	Peak	360.00	150	Vertical	Pass
3	89.398	11.92	-28.93	43.5	-31.58	Peak	188.40	200	Vertical	Pass
4	153.887	12.42	-29.77	43.5	-31.08	Peak	360.00	150	Vertical	Pass
5	399.478	21.66	-20.86	46.0	-24.34	Peak	0.00	200	Vertical	Pass
6	828.696	47.89	-11.67	46.0	1.89	Peak	355.20	184	Vertical	N/A
6*	828.696	34.65	-11.67	46.0	-11.35	QP	355.20	184	Vertical	Pass

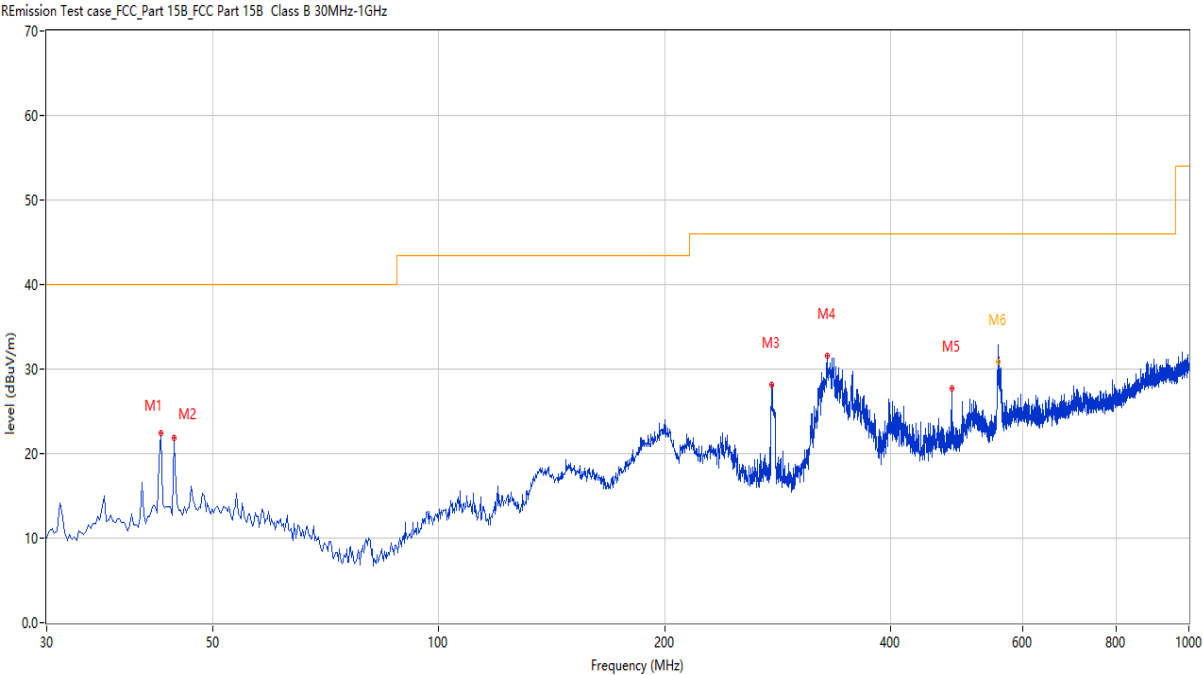
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Test Mode:	133	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal	FCC



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.607	22.37	-25.57	40.0	-17.63	Peak	0.00	200	Horizontal	Pass
2	44.304	21.92	-25.33	40.0	-18.08	Peak	0.00	200	Horizontal	Pass
3	278.015	28.17	-24.33	46.0	-17.83	Peak	261.60	100	Horizontal	Pass
4	329.170	31.58	-22.81	46.0	-14.42	Peak	280.60	100	Horizontal	Pass
5	482.634	27.67	-19.11	46.0	-18.33	Peak	118.60	200	Horizontal	Pass
6	556.578	32.89	-17.10	46.0	-13.11	Peak	221.00	200	Horizontal	Pass
6*	556.578	30.90	-17.10	46.0	-15.10	QP	221.00	200	Horizontal	Pass

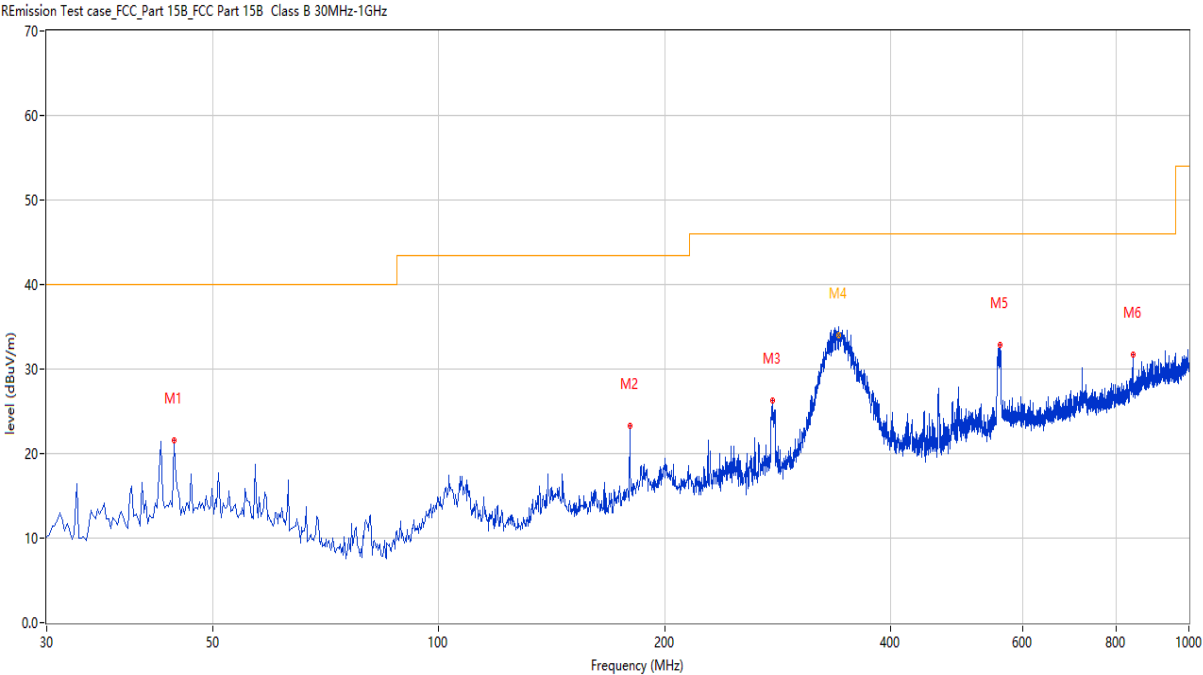
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Test Mode:	133	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Vertical	FCC



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.304	21.53	-25.33	40.0	-18.47	Peak	326.00	100	Vertical	Pass
2	179.828	23.31	-28.28	43.5	-20.19	Peak	202.90	100	Vertical	Pass
3	278.258	26.22	-24.32	46.0	-19.78	Peak	360.00	150	Vertical	Pass
4	340.807	35.01	-22.07	46.0	-10.99	Peak	335.00	100	Vertical	Pass
4*	340.807	33.93	-22.07	46.0	-12.07	QP	335.00	100	Vertical	Pass
5	559.488	32.85	-17.01	46.0	-13.15	Peak	360.00	100	Vertical	Pass
6	841.687	31.71	-11.54	46.0	-14.29	Peak	284.70	100	Vertical	Pass

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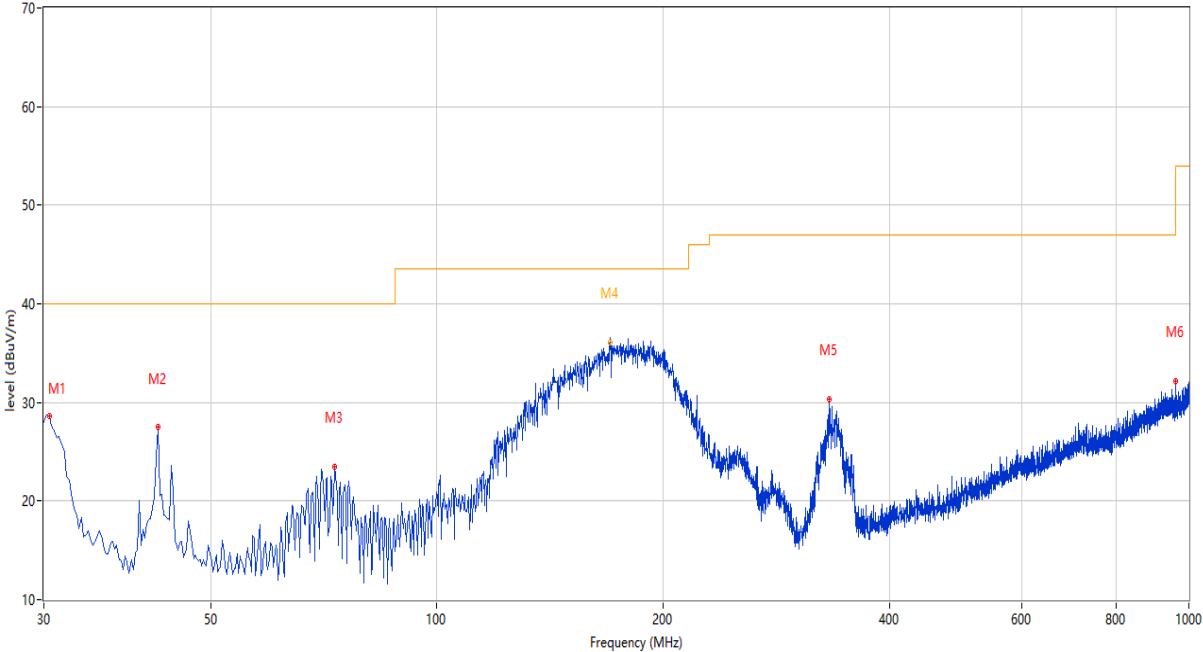
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Test Mode:	1	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal	IC

REmission Test case_FCC_Part 15B_IC Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.485	28.56	-29.66	40.0	-11.44	Peak	212.50	150	Horizontal	Pass
2	42.607	27.47	-25.57	40.0	-12.53	Peak	87.40	150	Horizontal	Pass
3	73.154	23.43	-30.50	40.0	-16.57	Peak	238.60	100	Horizontal	Pass
4	169.888	36.57	-28.96	43.5	-6.93	Peak	240.10	150	Horizontal	Pass
4*	169.888	36.04	-28.96	43.5	-7.46	QP	240.10	150	Horizontal	Pass
5	332.807	30.34	-22.54	47.0	-16.66	Peak	0.00	150	Horizontal	Pass
6	959.513	32.18	-9.31	47.0	-14.82	Peak	354.60	100	Horizontal	Pass

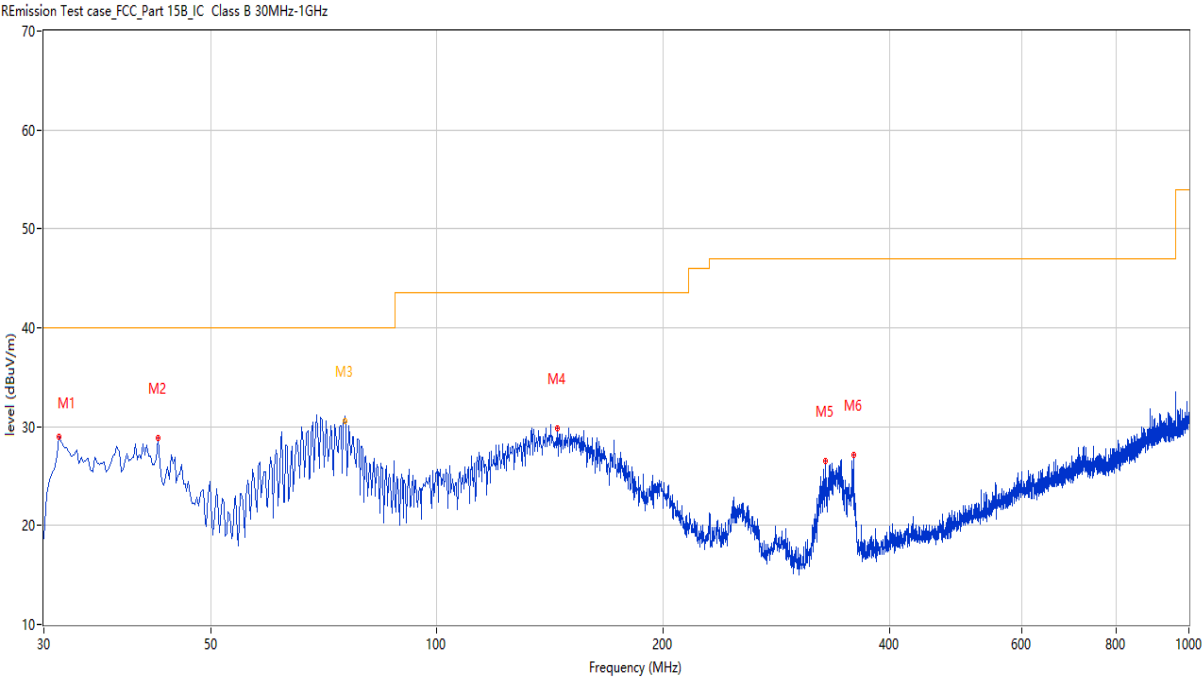
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Test Mode:	1	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Vertical	IC



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.455	28.95	-29.34	40.0	-11.05	Peak	36.40	100	Vertical	Pass
2	42.607	28.85	-25.57	40.0	-11.15	Peak	354.80	100	Vertical	Pass
3	75.336	31.11	-31.08	40.0	-8.89	Peak	216.80	150	Vertical	Pass
3*	75.336	30.52	-31.08	40.0	-9.48	QP	216.80	150	Vertical	Pass
4	144.431	29.88	-30.01	43.5	-13.62	Peak	313.70	100	Vertical	Pass
5	328.200	26.53	-22.87	47.0	-20.47	Peak	243.00	100	Vertical	Pass
6	358.020	27.17	-22.23	47.0	-19.83	Peak	360.00	150	Vertical	Pass

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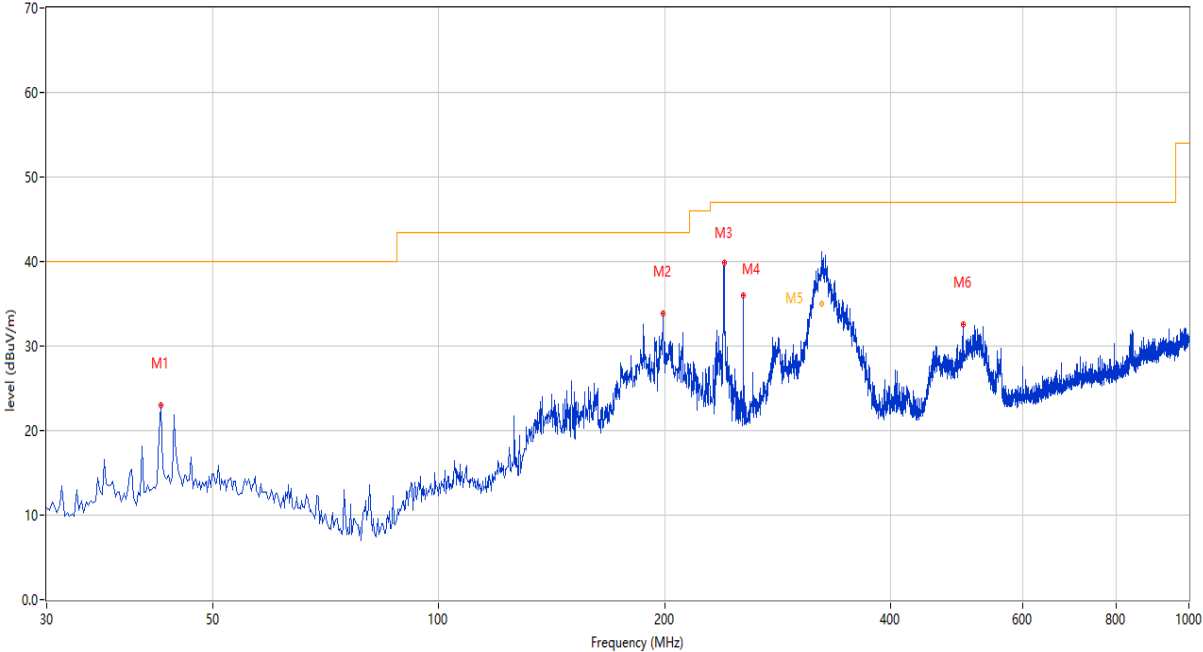
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Test Mode:	133	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal	IC

REmission Test case_FCC_Part 15B_IC Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.607	23.03	-25.57	40.0	-16.97	Peak	358.10	150	Horizontal	Pass
2	198.980	33.80	-26.11	43.5	-9.70	Peak	0.00	200	Horizontal	Pass
3	240.195	39.86	-25.17	47.0	-7.14	Peak	199.70	100	Horizontal	Pass
4	254.741	36.01	-24.47	47.0	-10.99	Peak	360.00	150	Horizontal	Pass
5	324.314	42.02	-22.96	47.0	-4.98	Peak	37.10	105	Horizontal	Pass
5*	324.314	34.96	-22.96	47.0	-12.04	QP	37.10	105	Horizontal	Pass
6	499.605	32.51	-18.60	47.0	-14.49	Peak	265.20	150	Horizontal	Pass

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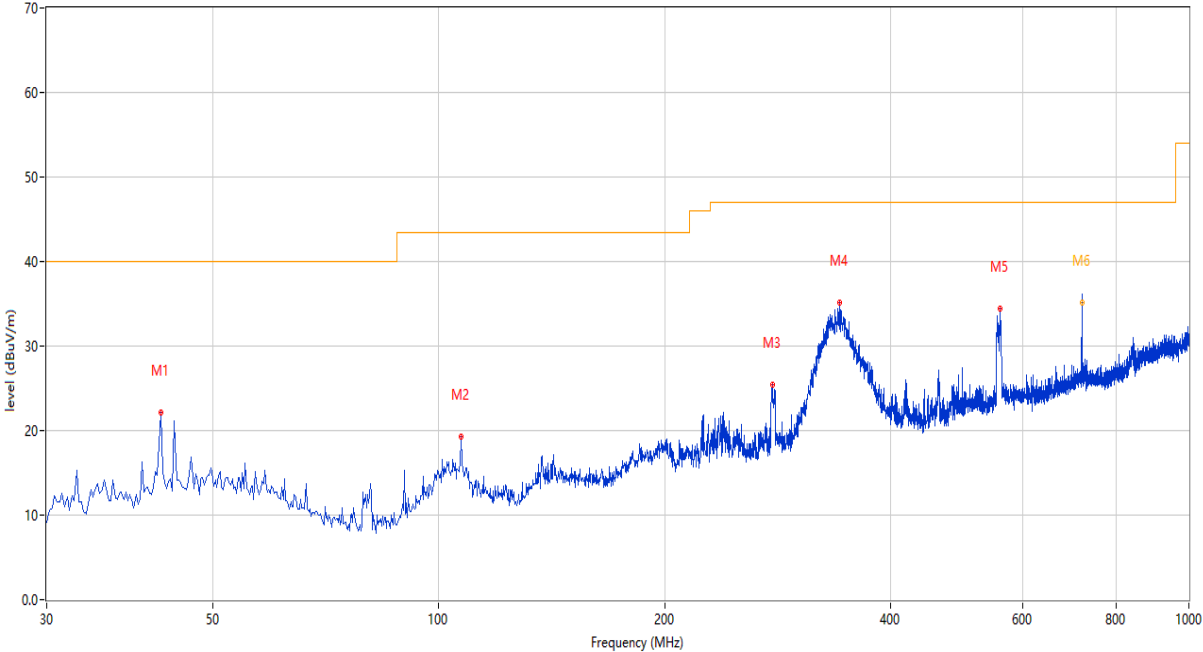
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Test Mode:	133	Frequency Range:	30M-1GHz	Test Limit
Test Voltage:	AC120V/60Hz	Polarization:	Vertical	IC

REmission Test case_FCC_Part 15B_IC Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.607	22.18	-25.57	40.0	-17.82	Peak	360.00	200	Vertical	Pass
2	107.096	19.26	-26.68	43.5	-24.24	Peak	7.20	100	Vertical	Pass
3	278.258	25.45	-24.32	47.0	-21.55	Peak	360.00	200	Vertical	Pass
4	342.504	35.09	-22.00	47.0	-11.91	Peak	331.40	100	Vertical	Pass
5	559.730	34.46	-17.02	47.0	-12.54	Peak	360.00	200	Vertical	Pass
6	719.983	36.18	-13.84	47.0	-10.82	Peak	78.70	100	Vertical	Pass
6*	719.983	35.16	-13.84	47.0	-11.84	QP	78.70	100	Vertical	Pass

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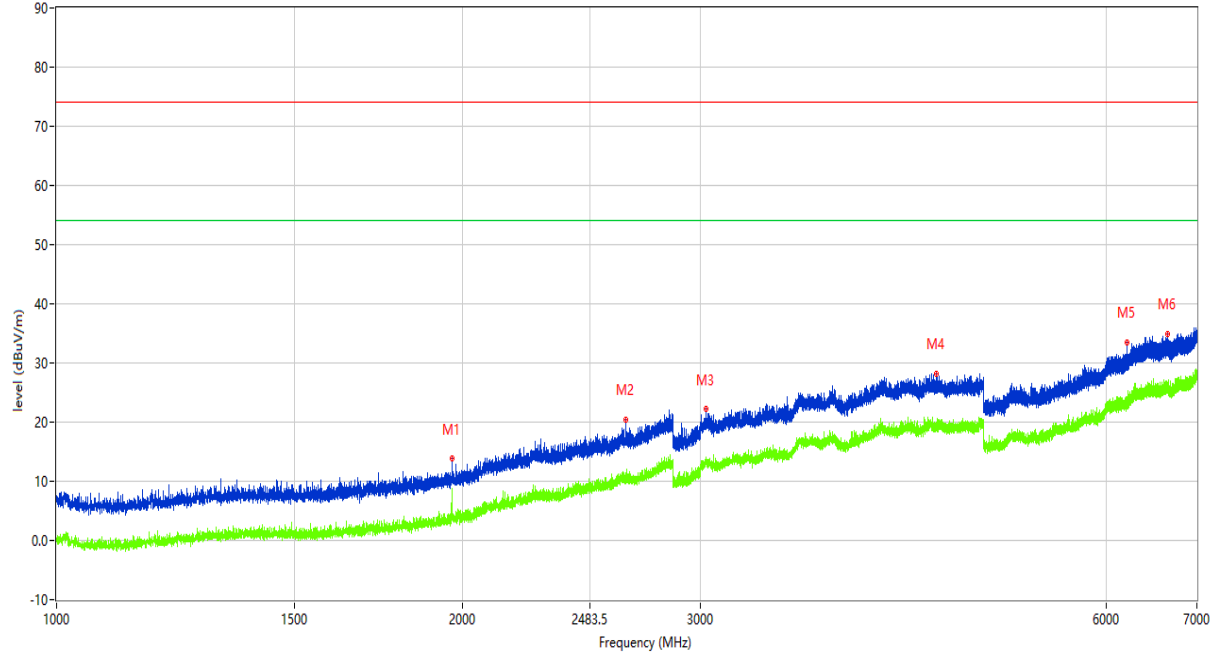
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Test Mode:	1	Frequency Range:	1-7GHz
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal

REmission Test case_FCC_Part 15B_FCC Part 15B Class B 1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1963.130	13.83	-13.23	74.0	-60.17	Peak	1.90	100	Horizontal	Pass
1**	1963.130	8.77	-13.23	54.0	-45.23	AV	1.90	100	Horizontal	Pass
2	2641.545	20.48	-8.52	74.0	-53.52	Peak	355.30	100	Horizontal	Pass
2**	2641.545	11.47	-8.52	54.0	-42.53	AV	355.30	100	Horizontal	Pass
3	3029.246	22.15	-4.37	74.0	-51.85	Peak	16.30	100	Horizontal	Pass
3**	3029.246	13.49	-4.37	54.0	-40.51	AV	16.30	100	Horizontal	Pass
4	4491.189	28.22	-0.44	74.0	-45.78	Peak	129.10	100	Horizontal	Pass
4**	4491.189	19.05	-0.44	54.0	-34.95	AV	129.10	100	Horizontal	Pass
5	6214.723	33.50	2.60	74.0	-40.50	Peak	171.80	100	Horizontal	Pass
5**	6214.723	24.35	2.60	54.0	-29.65	AV	171.80	100	Horizontal	Pass
6	6656.293	34.96	4.54	74.0	-39.04	Peak	241.30	100	Horizontal	Pass
6**	6656.293	26.32	4.54	54.0	-27.68	AV	241.30	100	Horizontal	Pass

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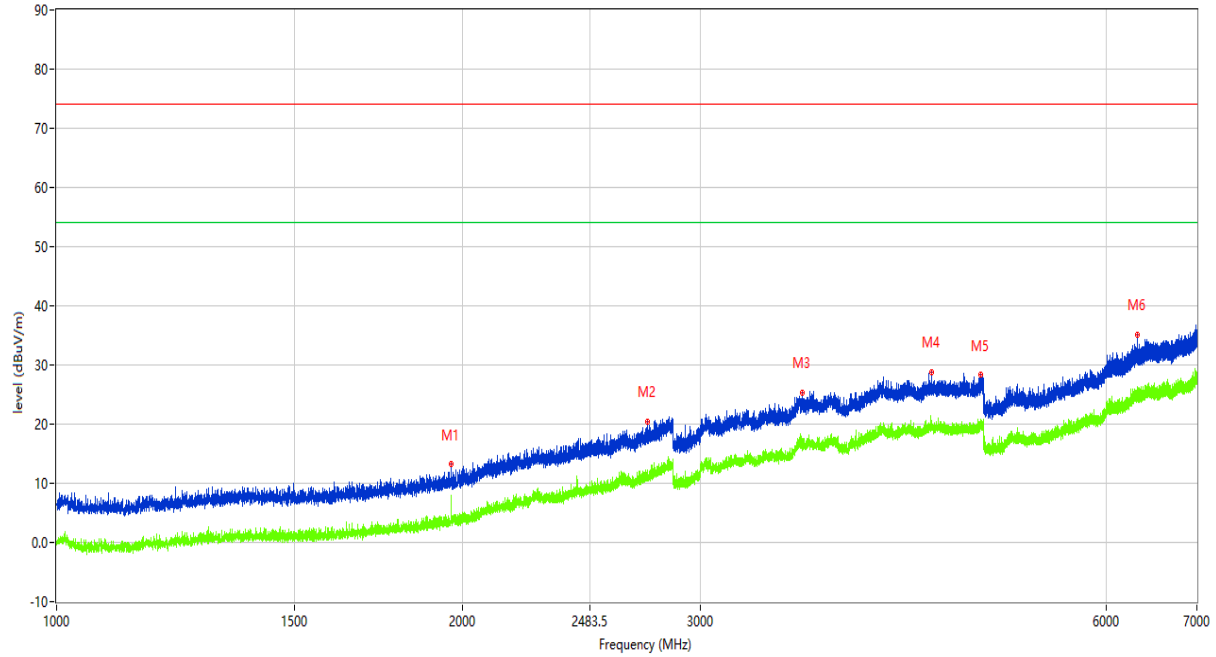
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Test Mode:	1	Frequency Range:	1-7GHz
Test Voltage:	AC120V/60Hz	Polarization:	Vertical

REmission Test case_FCC_Part 15B_FCC Part 15B Class B 1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1961.630	13.31	-13.25	74.0	-60.69	Peak	57.40	100	Vertical	Pass
1**	1961.630	8.04	-13.25	54.0	-45.96	AV	57.40	100	Vertical	Pass
2	2741.032	20.41	-7.83	74.0	-53.59	Peak	310.80	100	Vertical	Pass
2**	2741.032	11.75	-7.83	54.0	-42.25	AV	310.80	100	Vertical	Pass
3	3569.929	25.30	-2.18	74.0	-48.70	Peak	171.50	100	Vertical	Pass
3**	3569.929	17.48	-2.18	54.0	-36.52	AV	171.50	100	Vertical	Pass
4	4451.444	28.84	-0.85	74.0	-45.16	Peak	32.70	100	Vertical	Pass
4**	4451.444	20.69	-0.85	54.0	-33.31	AV	32.70	100	Vertical	Pass
5	4837.645	28.28	-0.12	74.0	-45.72	Peak	13.70	100	Vertical	Pass
5**	4837.645	19.52	-0.12	54.0	-34.48	AV	13.70	100	Vertical	Pass
6	6326.959	35.00	3.44	74.0	-39.00	Peak	0.00	100	Vertical	Pass
6**	6326.959	26.25	3.44	54.0	-27.75	AV	0.00	100	Vertical	Pass

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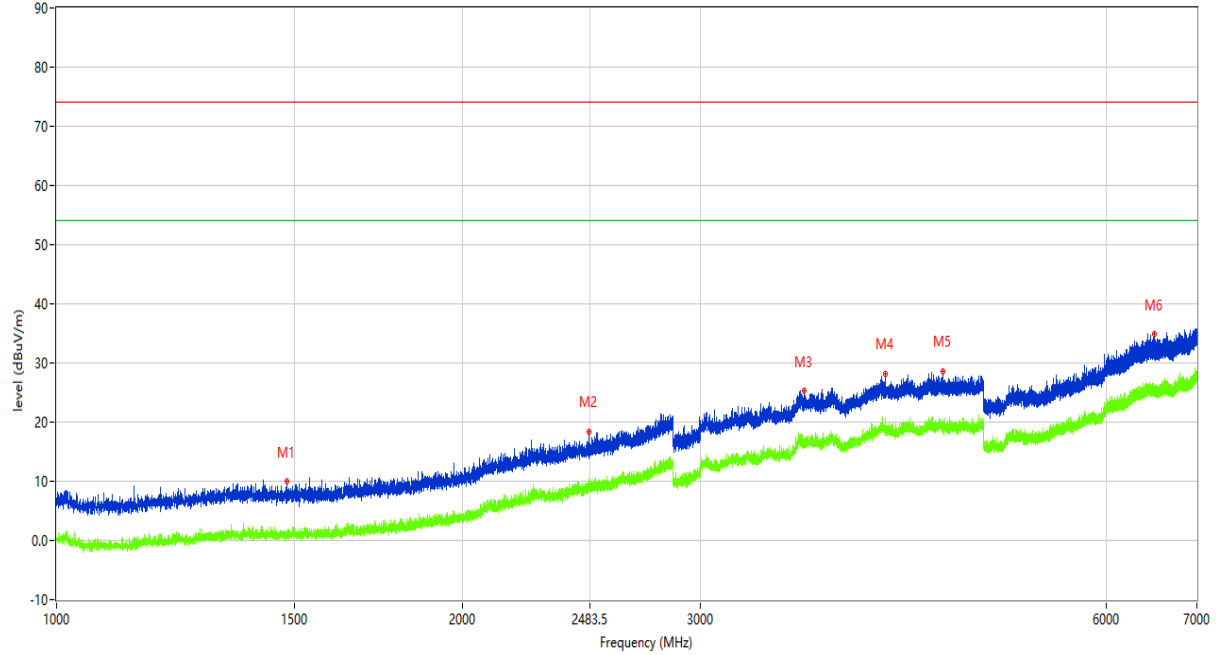
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Test Mode:	133	Frequency Range:	1-7GHz
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal

REmission Test case_FCC_Part 15B_FCC Part 15B Class B 1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.440	9.92	-14.76	74.0	-64.08	Peak	56.30	100	Horizontal	Pass
1**	1481.440	1.56	-14.76	54.0	-52.44	AV	56.30	100	Horizontal	Pass
2	2480.815	18.46	-9.49	74.0	-55.54	Peak	143.40	100	Horizontal	Pass
2**	2480.815	10.33	-9.49	54.0	-43.67	AV	143.40	100	Horizontal	Pass
3	3582.677	25.24	-2.35	74.0	-48.76	Peak	131.30	100	Horizontal	Pass
3**	3582.677	16.44	-2.35	54.0	-37.56	AV	131.30	100	Horizontal	Pass
4	4112.861	28.21	-1.09	74.0	-45.79	Peak	117.50	100	Horizontal	Pass
4**	4112.861	20.68	-1.09	54.0	-33.32	AV	117.50	100	Horizontal	Pass
5	4536.183	28.50	-0.44	74.0	-45.50	Peak	217.30	100	Horizontal	Pass
5**	4536.183	19.79	-0.44	54.0	-34.21	AV	217.30	100	Horizontal	Pass
6	6508.811	34.90	3.97	74.0	-39.10	Peak	297.20	100	Horizontal	Pass
6**	6508.811	26.10	3.97	54.0	-27.90	AV	297.20	100	Horizontal	Pass

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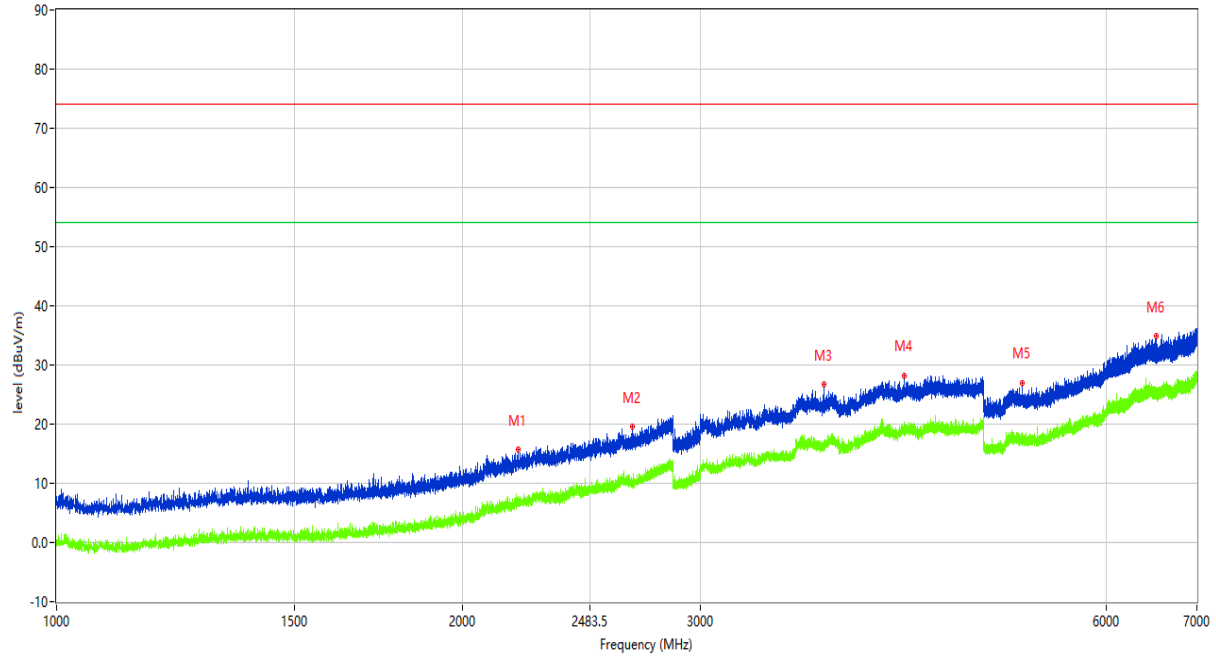
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Test Mode:	133	Frequency Range:	1-7GHz
Test Voltage:	AC120V/60Hz	Polarization:	Vertical

REmission Test case_FCC_Part 15B_FCC Part 15B Class B 1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2197.350	15.65	-10.32	74.0	-58.35	Peak	198.80	100	Vertical	Pass
1**	2197.350	7.07	-10.32	54.0	-46.93	AV	198.80	100	Vertical	Pass
2	2673.041	19.57	-8.84	74.0	-54.43	Peak	251.30	100	Vertical	Pass
2**	2673.041	10.68	-8.84	54.0	-43.32	AV	251.30	100	Vertical	Pass
3	3706.787	26.67	-2.08	74.0	-47.33	Peak	30.00	100	Vertical	Pass
3**	3706.787	17.44	-2.08	54.0	-36.56	AV	30.00	100	Vertical	Pass
4	4250.094	28.18	-1.59	74.0	-45.82	Peak	203.40	100	Vertical	Pass
4**	4250.094	19.21	-1.59	54.0	-34.79	AV	203.40	100	Vertical	Pass
5	5199.850	26.87	0.95	74.0	-47.13	Peak	34.80	100	Vertical	Pass
5**	5199.850	18.06	0.95	54.0	-35.94	AV	34.80	100	Vertical	Pass
6	6534.808	34.83	4.12	74.0	-39.17	Peak	275.30	100	Vertical	Pass
6**	6534.808	25.65	4.12	54.0	-28.35	AV	275.30	100	Vertical	Pass

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5 Photographs of the EUT and Test Set-Up

5.1 Photographs of the EUT



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5.2 Photographs of the Test Set-up

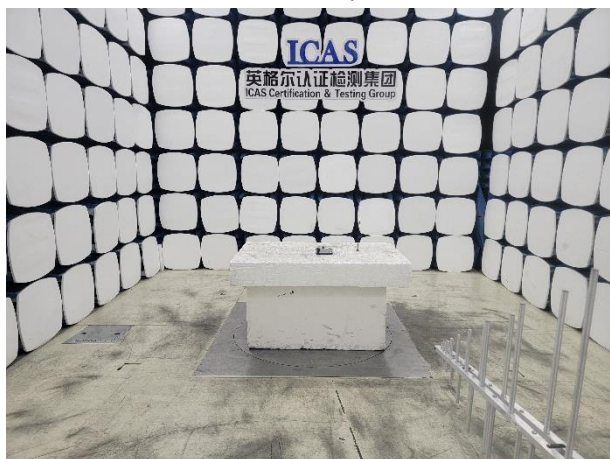
Conducted Emission test set-up, TM1



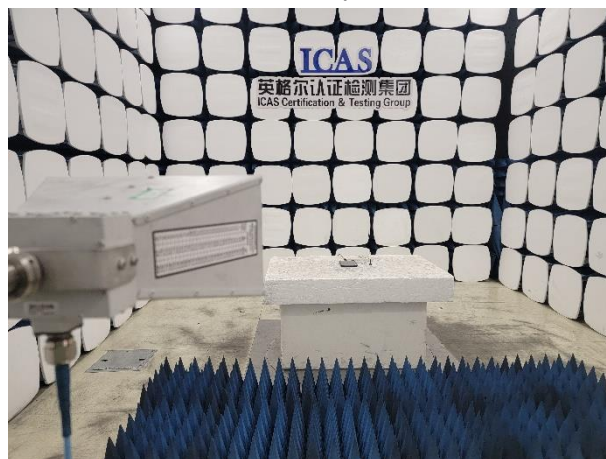
Conducted Emission test set-up, TM133



Radiated Emission test set-up for 30M-1GHz, TM1



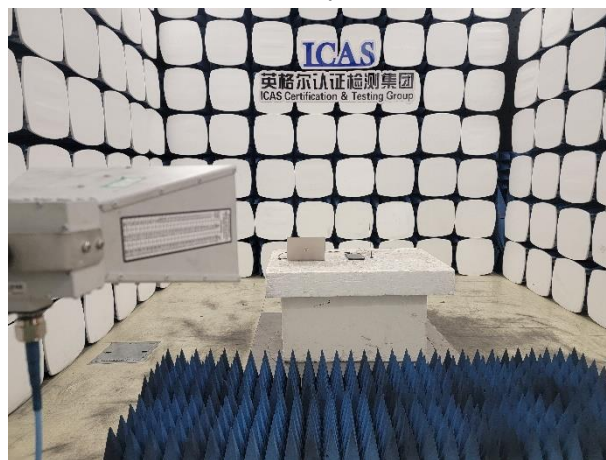
Radiated Emission test set-up for above 1GHz, TM1



Radiated Emission test set-up for 30M-1GHz, TM133



Radiated Emission test set-up for above 1GHz, TM133



End of the report