

# TEST REPORT

Report No.: SHC21040886-01AE

Date: 2022-06-16

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**Applicant** : Nather Ventilation System Co., Ltd.  
**Address of Applicant** : No. 2688, Xingping 1st Road,  
Pinghu Economic-Technological Development Zone,  
Jiaxing City, Zhejiang Province, China.


**Product Name** : L-4-EA Controller  
**Brand Name** : RuntalAire  
**Model No.** : L-4-EA  
**Sample No.** : C21040886-01#01  
**FCC ID** : 2A3VE-L-4-EA  
**ISED Number** : 28014-L4EA  
**Standards** : FCC CFR47 Part 15, Subpart C Section 15.231  
RSS-Gen (Issue 5, Amd.2-Feb 2021)  
RSS-210 (Issue 10, Amendment-Apr 2020)

**Date of Receipt** : 2021-06-10  
**Date of Test** : 2021-06-10-2021-08-27  
**Date of Issue** : 2022-06-16

**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:



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Approved by:



(Authorized signatory: Guoyou Chi)

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## 1 General Information

### 1.1 Testing Laboratory

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

### 1.2 Details of Application

Applicant Company Name	Nather Ventilation System Co., Ltd.
Address	No. 2688, Xingping 1st Road, Pinghu Economic-Technological Development Zone, Jiaxing City, Zhejiang Province, China.
Contact Person	Wang Xiaomei
Telephone	021-64345163
Email	wxm@nather.com.cn
Manufacturer Company Name	Nather Ventilation System Co., Ltd.
Address	No. 2688, Xingping 1st Road, Pinghu Economic-Technological Development Zone, Jiaxing City, Zhejiang Province, China.
Factory Company Name	Gaobiao IoT Technology Co., Ltd.
Address	4th Floor, Door B, Bldg D, XinYuan Science and Technology Park, No.97 Changping Road, Changping District, Beijing 102206

### 1.3 Details of EUT

Product Name	L-4-EA Controller
Brand Name	RuntalAire
Model Name	L-4-EA
FCC ID	2A3VE-L-4-EA
IC ID	28014-L4EA
Frequency Range	470MHz
Field Strength(3m)	80.54dBuV/m(peak)@3m
Modulation Type	LORA
Number of channels	1
Hardware version	LS_F4_V2.3
Software version	LCM1-1278G-S-V2.3
Antenna Type	Internal Antenna
Antenna Gain	-3.41dBi
Power Supply	DC 12V by ERVD Unit (which received AC 120V 60Hz power)

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## 1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
RSS-Gen (Issue 5, Amd.2-Feb 2021)	General Requirements for Compliance of Radio Apparatus
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
RSS-210 (Issue 10, Amendment-Apr 2020)	Licence-Exempt Radio Apparatus: Category I Equipment

### 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	ISED Rules	Result
Antenna Requirement	§15.203	RSS-Gen 6.8	PASS
Activated Automatically Transmitter	§15.231(a)(2)	RSS-210 Annex A.1.1(b)	PASS
Average Factor	§15.231(b)	RSS-210 Annex A.1.2(a)	PASS
Field Strength of Fundamental and Spurious Emission	§15.231(b) & §15.209	RSS-210 Annex A.1.2(b) & RSS-Gen 8.9	PASS
20dB Bandwidth and 99% Bandwidth	§15.231(c)	RSS-210 Annex A.1.3	PASS
AC power-line conducted emissions	§15.207	RSS-GEN 8.8	PASS

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## 2 Test Condition

### 2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

### 2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2021-08-13	2022-08-12
Spectrum Analyzer	Keysight	N9020A	MY54101709	2021-08-13	2022-08-12
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2021-06-10	2022-06-09
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2021-06-10	2022-06-09
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2021-06-10	2022-06-09
V-network	SCHWARZBECK	NSLK 8127	8127-902	2021-06-10	2022-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2022-06-07
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08	2023-06-07
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2020-11-22	2021-11-21
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2021-06-10	2022-06-09
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2020-06-09	2023-06-08
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2020-06-09	2022-06-08
Test Software	BL	BL410_E	N/A	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.

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	9KHz – 30MHz	± 3.42 dB
	30 MHz – 1 GHz	± 3.42 dB
	> 1GHz	± 4.20 dB
AC power-line conducted emissions	150kHz-30MHz	± 1.71 dB
Occupied Channel Bandwidth		±5 %

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## 3 Test Set-up and Operation Modes

### 3.1 Details of Test Mode

NO.	Test mode description
1	Transmitting mode (470MHz)

Note: 1. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

### 3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
ERVD Unit	N/A	ERV350D-EA	N/A

### 3.3 Support Software

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

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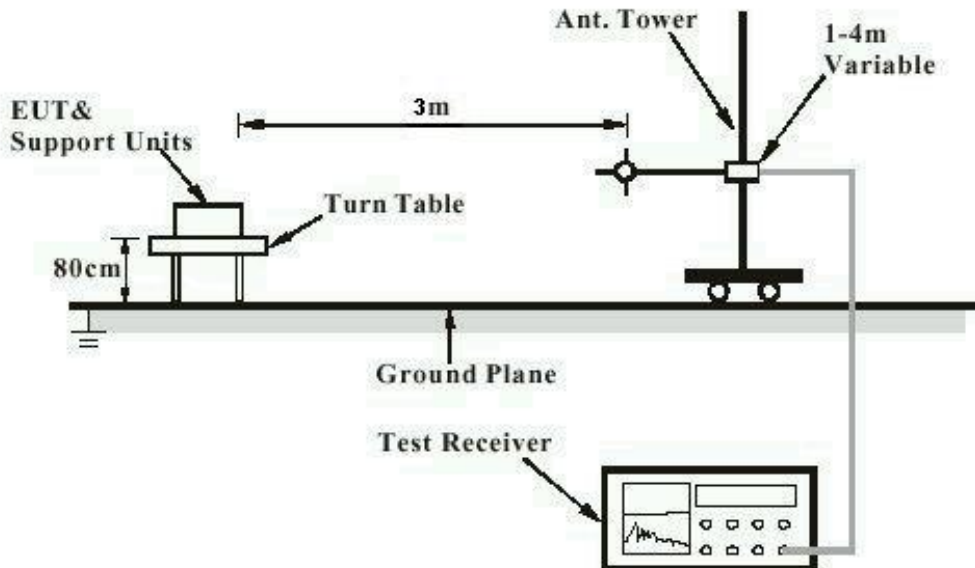
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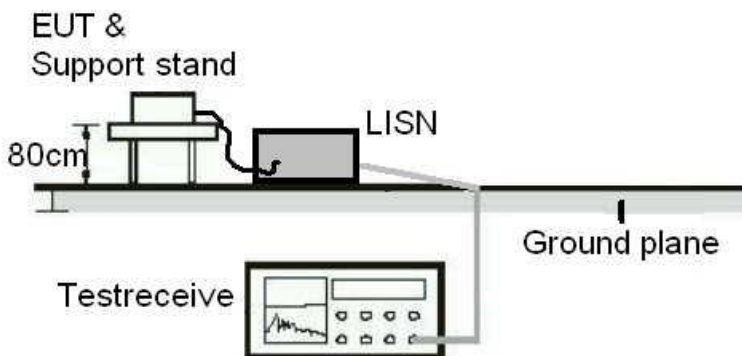
## 3.4 Test Setup Diagram

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 Equipment Configuration for Conduction Measurement



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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, RSS-Gen 6.8

Requirement : The use of approved antennas only with directional gains that do not exceed 6dBi

According to the manufacturer declaration, the EUT has an antenna with a gain of -3.41dBi. The antenna is an internal 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 Provision For Momentary Operation

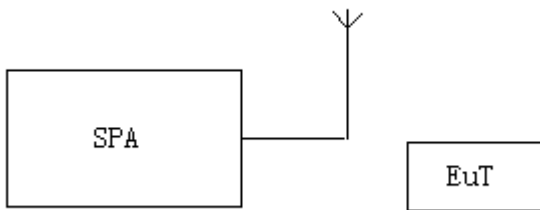
RESULT:

**PASS**

Test standard : §15.231(a)(2), RSS-210 Annex A.1.1(b)

Requirement : ANSI C63.10-2013

Test setup:



### Measurement Procedure:

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=100kHz, VBW=300kHz

Span: 0Hz

Sweep time: 10s

2. A transmitter that has been activated automatically. Use the "View" function of SPA to find the transmission time of cease transmission.

3. Record the data and Reported.

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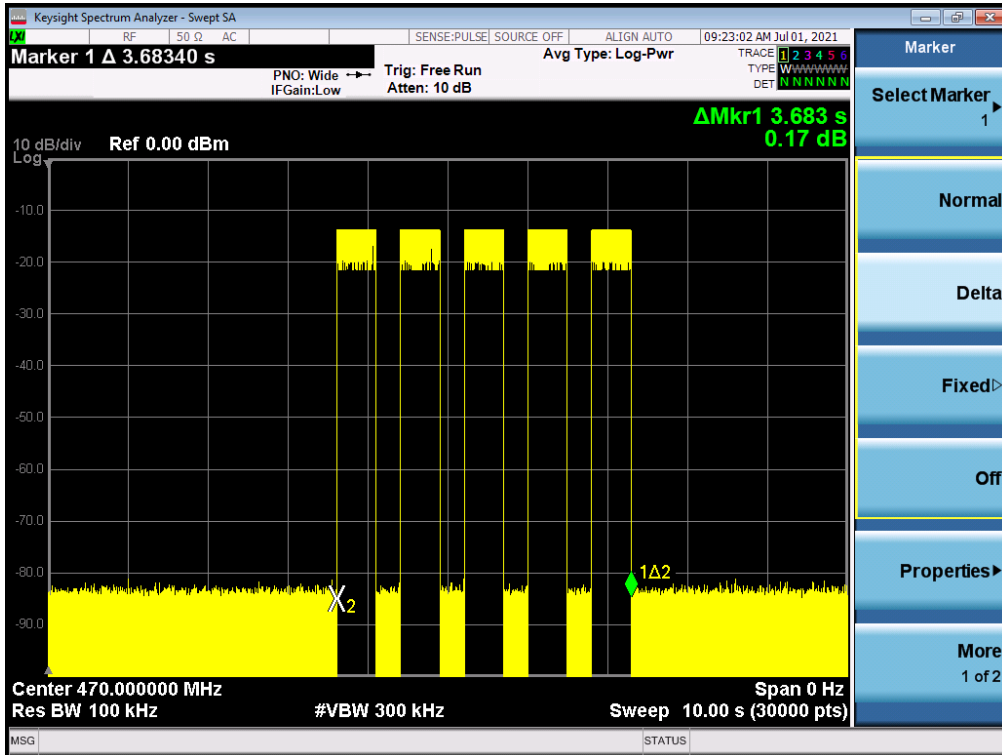
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## Test Result:

Test Mode: EUT @ 470MHz for RF Transmitter

The time of stopping transmission (s)	Limit (s)
3.683	5.00



Result: Pass

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## 4.1.3 Duty Cycle Correction Factor

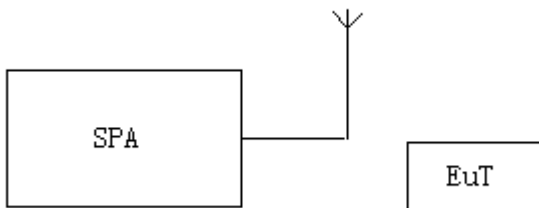
RESULT:

**PASS**

Test standard : §15.231(b), RSS-210 Annex A.1.2(a)

Requirement : ANSI C63.10-2013 Clause 7.5(g)

### Test setup



### Measurement Procedure

1. Set the parameters of SPA as below:  
Centre frequency = Operation Frequency  
RBW=100KHz; VBW=300KHz  
Span: 0Hz  
Sweep time: more than two pulse trains or more than each type of pulse occupancy time
2. Set the EUT to transmit by manually operated. Use the "Delta mark" function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
3. Record the plots and Reported.

### Test Result:

**Note:** The EUT was tested according to ANSI C63.10 Clause 7.5(g), The 100ms period that contains the maximum "on time" is 100ms, so the Duty cycle correction factor is 0.

Duty Cycle=Total Time(Ton)/(Ton+Toff)=100ms/100ms=100%

Duty cycle correction factor=20Log(Duty Cycle)=0

Average=peak+ Duty cycle correction factor=peak

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## 4.1.4 Radiated Emission

RESULT:

PASS

Test standard : §15.231(b),§15.209,  
RSS-210 Annex A.1.2(b), RSS-Gen 8.9  
Requirement : ANSI C63.10-2013  
Kind of test site : 3m Semi-Anechoic Chamber

### Test setup

Test Diagram : Clause 3.4  
Operation Mode : Transmitting mode  
Ambient temperature : 25°C  
Relative humidity : 50%

Notes:

According to §15.231(b), The field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,750*	125 to 375*
174-260	3,750	375
260-470	3,750 to 12,500*	375 to 1,250*
Above 470	12,500	1,250

\*Linear interpolations

The above field strength limits are specified at a distance of 3 meters.

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CI SPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements start below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

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## Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start Frequency	1000MHz
Stop Frequency	10 <sup>th</sup> carrier harmonic
RB / VB (emission in restricted band)	1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

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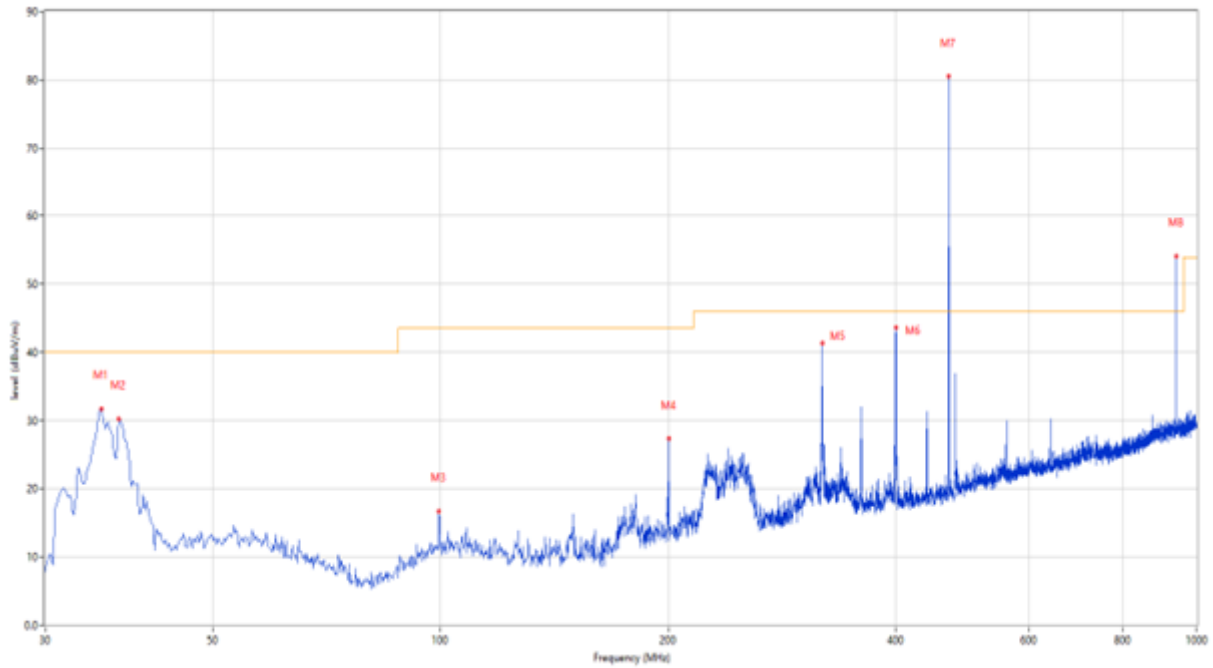
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## Test Result

### Radiated Emission Below 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

### Radiated Emission Below 1GHz-Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.576	31.77	-27.86	40.0	-8.23	Peak	226.60	100	Horizontal	Pass
2	37.516	30.24	-27.18	40.0	-9.76	Peak	15.70	100	Horizontal	Pass
3	99.580	16.64	-26.68	43.5	-26.86	Peak	134.50	100	Horizontal	Pass
4	200.435	27.35	-26.23	43.5	-16.15	Peak	222.10	100	Horizontal	Pass
5	319.958	41.31	-23.18	46.0	-4.69	Peak	52.10	100	Horizontal	Pass
6	399.963	43.59	-20.83	46.0	-2.41	Peak	152.50	100	Horizontal	Pass
7	470.027	80.54	-19.59	101.94	-21.40	Peak	283.10	100	Horizontal	Pass
7**	470.027	80.54	-19.59	81.94	-1.40	AV	283.10	100	Horizontal	Pass
8	939.875	54.07	-9.13	81.94	-27.87	Peak	10.90	100	Horizontal	Pass
8**	939.875	54.07	-9.13	61.94	-7.87	AV	10.90	100	Horizontal	Pass

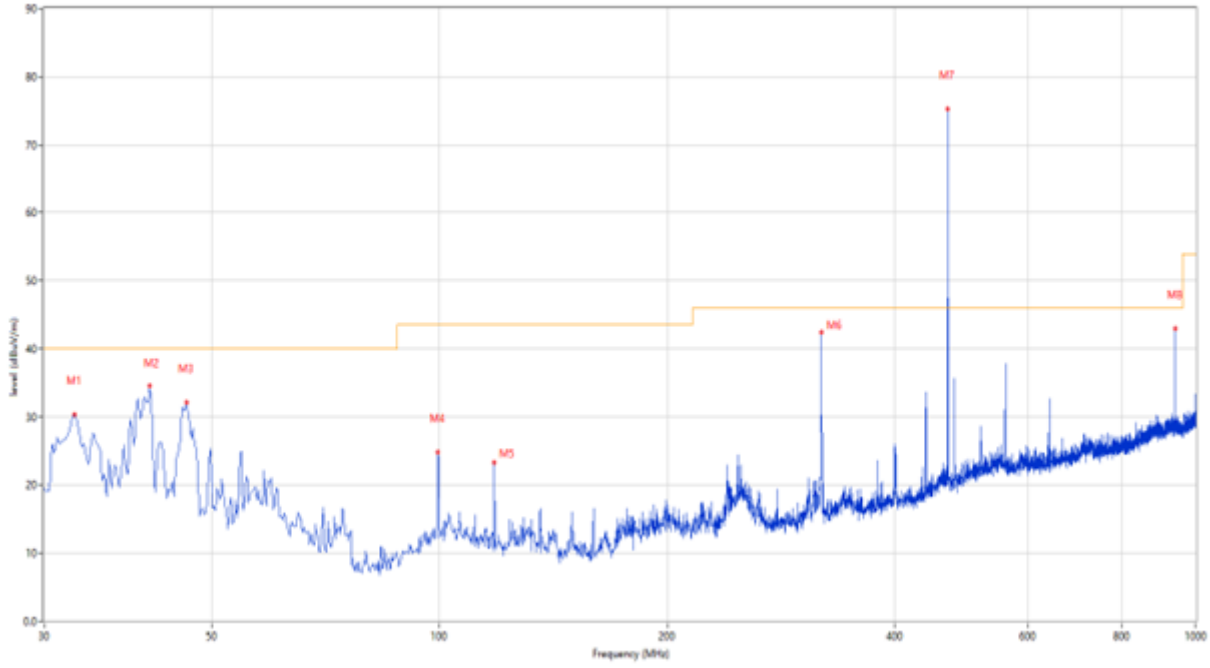
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## Radiated Emission Below 1GHz-Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	32.909	30.42	-28.80	40.0	-9.58	Peak	215.20	100	Vertical	Pass
2	41.395	34.50	-25.87	40.0	-5.50	Peak	27.20	100	Vertical	Pass
3	46.243	32.11	-25.20	40.0	-7.89	Peak	164.90	100	Vertical	Pass
4	99.580	24.85	-26.68	43.5	-18.65	Peak	86.40	100	Vertical	Pass
5	118.248	23.36	-28.07	43.5	-20.14	Peak	247.20	100	Vertical	Pass
6	319.958	42.38	-23.18	46.0	-3.62	Peak	141.10	100	Vertical	Pass
7	469.785	75.29	-19.59	101.94	-26.65	Peak	356.50	100	Vertical	Pass
7**	469.785	75.29	-19.59	81.94	-6.65	AV	356.50	100	Vertical	Pass
8	939.875	42.96	-9.13	81.94	-38.98	Peak	356.50	100	Vertical	Pass
8**	939.875	42.96	-9.13	61.94	-18.98	AV	356.50	100	Vertical	Pass

**Result: Pass**

**Note:**

1. Factor=Antenna Factor + Cable loss - Amplifier gain, Over Limit= Results- Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. Average=peak+ Duty cycle correction factor, Final Average= peak-0



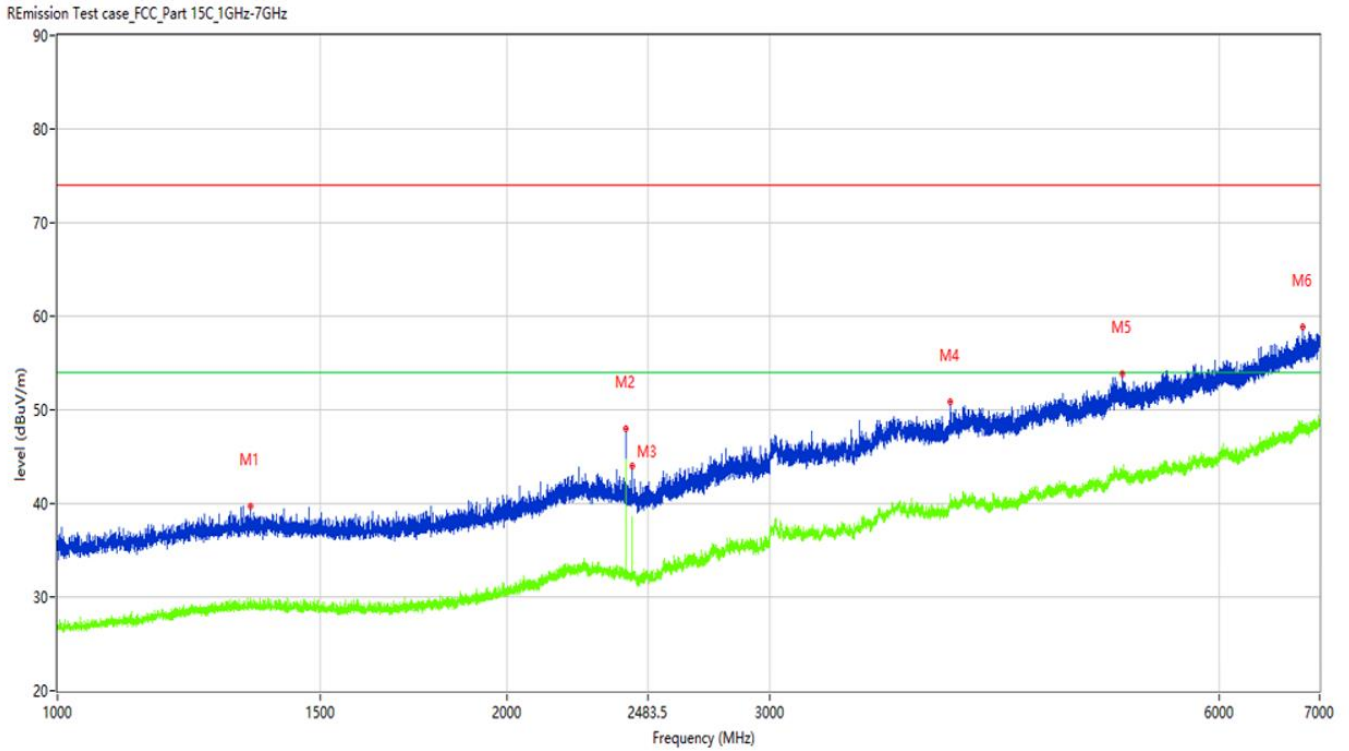
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## Radiated Emission Above 1GHz-Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1346.707	39.76	-14.40	74.0	-34.24	Peak	300.10	100	Horizontal	Pass
1**	1346.707	28.88	-14.40	54.0	-25.12	AV	300.10	100	Horizontal	Pass
2	2402.075	47.96	-9.83	74.0	-26.04	Peak	314.30	100	Horizontal	Pass
2**	2402.075	44.68	-9.83	54.0	-9.32	AV	314.30	100	Horizontal	Pass
3	2425.822	44.07	-9.42	74.0	-29.93	Peak	318.70	100	Horizontal	Pass
3**	2425.822	34.83	-9.42	54.0	-19.17	AV	318.70	100	Horizontal	Pass
4	3961.380	50.79	-1.45	74.0	-23.21	Peak	181.50	100	Horizontal	Pass
4**	3961.380	40.42	-1.45	54.0	-13.58	AV	181.50	100	Horizontal	Pass
5	5168.229	53.81	1.13	74.0	-20.19	Peak	72.80	100	Horizontal	Pass
5**	5168.229	43.14	1.13	54.0	-10.86	AV	72.80	100	Horizontal	Pass
6	6820.522	58.85	5.11	74.0	-15.15	Peak	360.00	100	Horizontal	Pass
6**	6820.522	48.17	5.11	54.0	-5.83	AV	360.00	100	Horizontal	Pass

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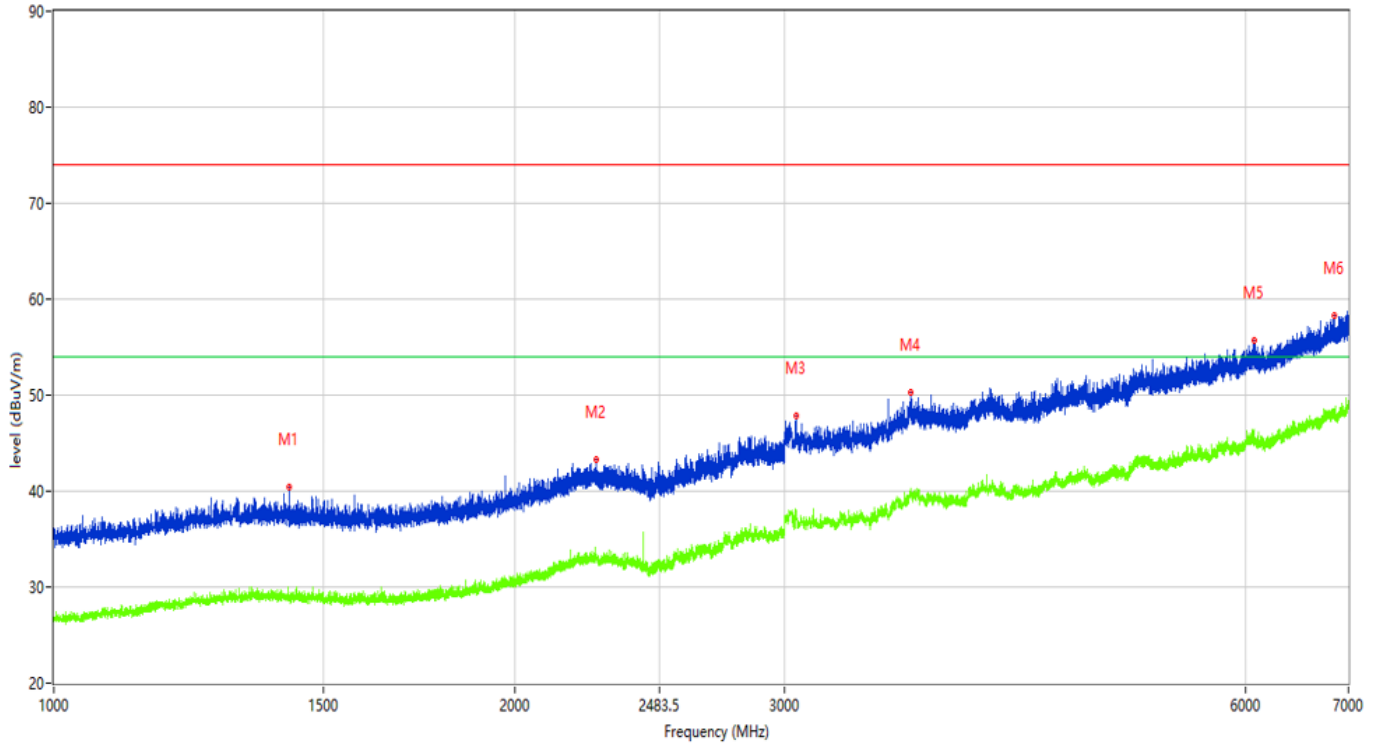
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## Radiated Emission Above 1GHz-Vertical

REmission Test case\_FCC\_Part 15C\_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1424.947	40.37	-14.52	74.0	-33.63	Peak	134.90	100	Vertical	Pass
1**	1424.947	28.62	-14.52	54.0	-25.38	AV	134.90	100	Vertical	Pass
2	2259.093	43.28	-9.71	74.0	-30.72	Peak	103.20	100	Vertical	Pass
2**	2259.093	33.39	-9.71	54.0	-20.61	AV	103.20	100	Vertical	Pass
3	3054.493	47.90	-5.00	74.0	-26.10	Peak	307.90	100	Vertical	Pass
3**	3054.493	37.66	-5.00	54.0	-16.34	AV	307.90	100	Vertical	Pass
4	3623.422	50.22	-1.61	74.0	-23.78	Peak	332.10	100	Vertical	Pass
4**	3623.422	39.49	-1.61	54.0	-14.51	AV	332.10	100	Vertical	Pass
5	6074.116	55.77	2.87	74.0	-18.23	Peak	62.90	100	Vertical	Pass
5**	6074.116	45.72	2.87	54.0	-8.28	AV	62.90	100	Vertical	Pass
6	6850.019	58.33	5.04	74.0	-15.67	Peak	226.10	100	Vertical	Pass
6**	6850.019	48.19	5.04	54.0	-5.81	AV	226.10	100	Vertical	Pass

**Result: Pass**

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain, Over Limit= Results- Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.

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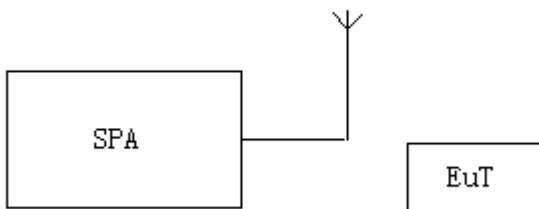
## 4.1.5 20dB Bandwidth and 99% Bandwidth

RESULT:

**PASS**

Test standard : §15.231(c), RSS-210 Annex A.1.3  
Requirement : ANSI C63.10-2013

### Test setup



### Test procedure

1. Set the parameters of SPA as below:  
Centre frequency = Operation Frequency  
RBW=3KHz  
VBW=10KHz  
Span: 500KHz  
Sweep time: Auto
2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
3. Record the plots and Reported.

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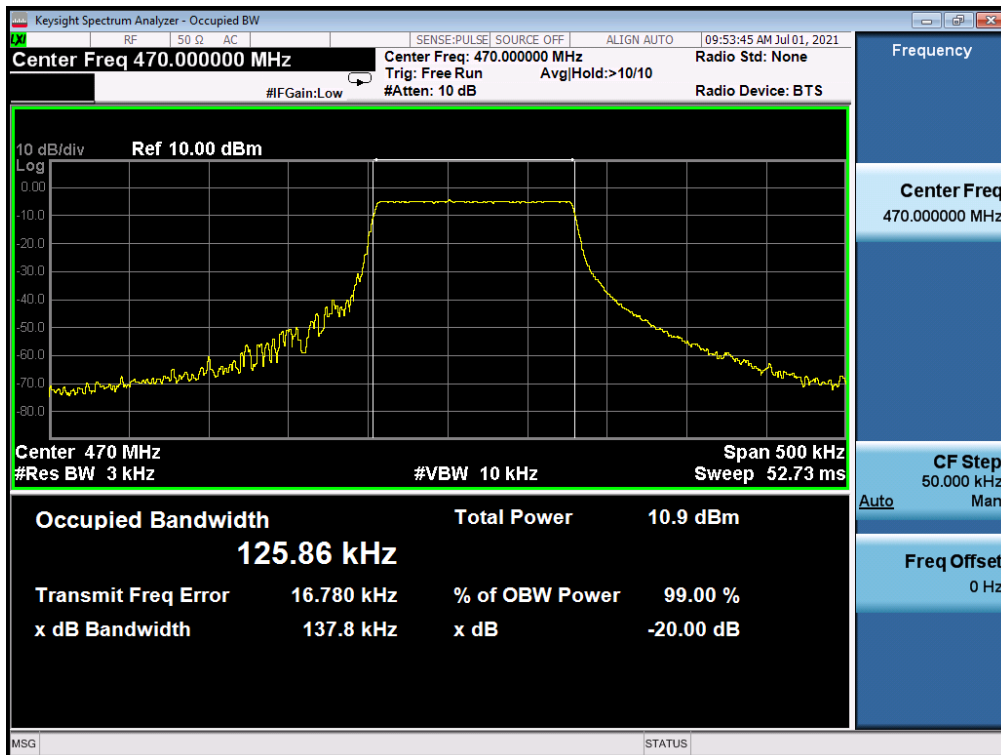
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## Test Result

Test Mode: EUT @ 470MHz for RF Transmitter

99% Bandwidth	-20dB Bandwidth	LIMIT	RESULT
125.86KHz	137.800KHz	1175KHz	Pass
Note: Limit= Operation Frequency x0.25%			

Figure: 20dB Bandwidth and 99% Bandwidth



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## 4.2 Mains Emissions

### 4.2.1 AC power-line conducted emissions

RESULT:

**PASS**

Test standard : §15.207, RSS-GEN 8.8  
Requirement : ANSI C63.10-2013  
Kind of test site : Shielded room

#### Test setup

Test Diagram : Clause 3.4  
Input Voltage : Which by AC 120V, 60Hz power  
Operation Mode : Normal operation  
Earthing : Connected to ground  
Ambient temperature : 25°C  
Relative humidity : 50%

For details refer to following test plot.

*Note:*

*The all configurations were tested respectively, but only the worst configuration shown here.*

# TEST REPORT

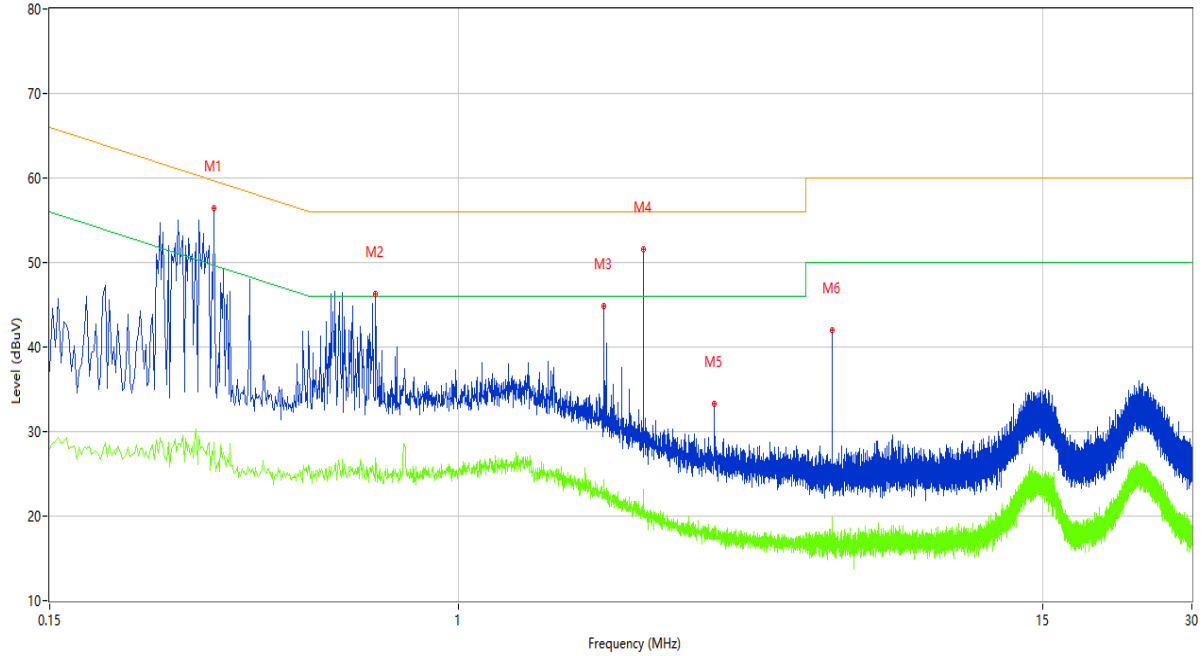
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## Conducted Emission on AC Mains, L Phase

CEmission Test case\_FCC\_CE\_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.322	67.29	9.71	59.66	7.63	Peak	L	N/A
1*	0.322	51.77	9.71	59.66	-7.89	QP	L	Pass
1**	0.322	28.69	9.71	49.66	-20.97	AV	L	Pass
2	0.680	67.36	9.76	56.00	11.36	Peak	L	N/A
2*	0.680	41.25	9.76	56.00	-14.75	QP	L	Pass
2**	0.680	26.86	9.76	46.00	-19.14	AV	L	Pass
3	1.960	68.59	9.68	56.00	12.59	Peak	L	N/A
3*	1.960	43.23	9.68	56.00	-12.77	QP	L	Pass
3**	1.960	24.26	9.68	46.00	-21.74	AV	L	Pass
4	2.354	24.60	9.68	56.00	-31.40	Peak	L	Pass
4*	2.354	16.60	9.68	56.00	-39.40	QP	L	Pass
4**	2.354	23.08	9.68	46.00	-22.92	AV	L	Pass
5	3.270	20.88	9.69	56.00	-35.12	Peak	L	Pass
5*	3.270	13.15	9.69	56.00	-42.85	QP	L	Pass
5**	3.270	18.70	9.69	46.00	-27.30	AV	L	Pass
6	5.648	19.67	9.70	60.00	-40.33	Peak	L	Pass
6*	5.648	12.55	9.70	60.00	-47.45	QP	L	Pass
6**	5.648	19.81	9.70	50.00	-30.19	AV	L	Pass

# TEST REPORT

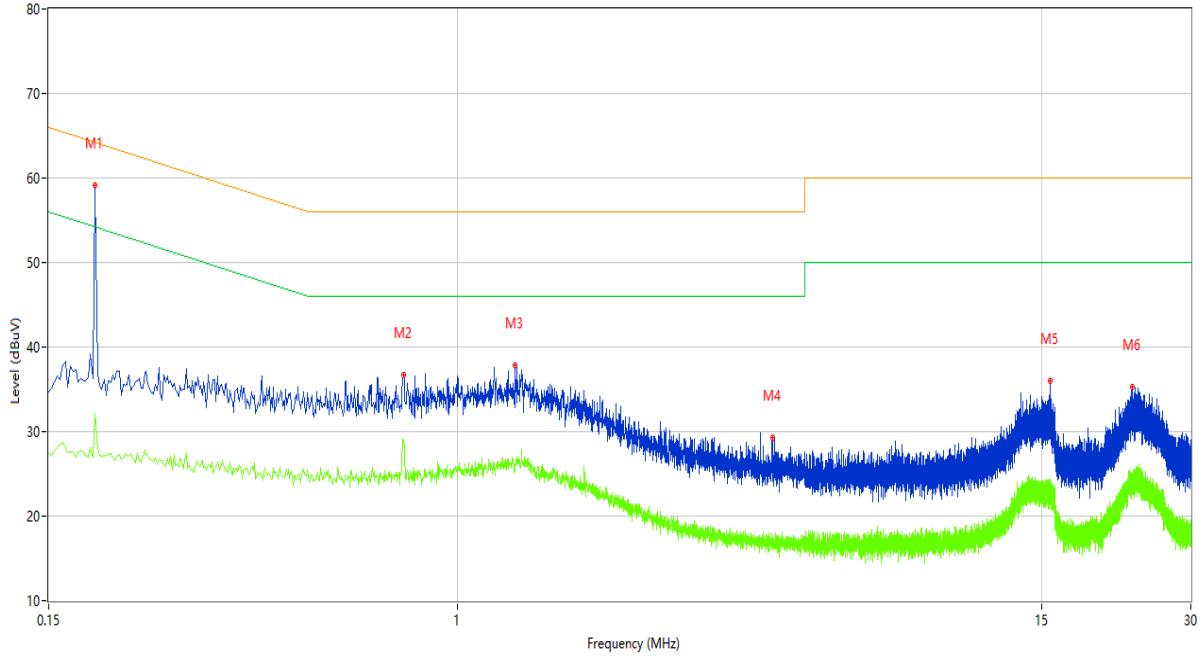
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## Conducted Emission on AC Mains, N Phase

CEmission Test case\_FCC\_CE\_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.186	58.57	9.66	64.21	-5.64	Peak	N	Pass
1*	0.186	39.36	9.66	64.21	-24.85	QP	N	Pass
1**	0.186	32.10	9.66	54.21	-22.11	AV	N	Pass
2	0.778	44.42	9.75	56.00	-11.58	Peak	N	Pass
2*	0.778	26.67	9.75	56.00	-29.33	QP	N	Pass
2**	0.778	29.03	9.75	46.00	-16.97	AV	N	Pass
3	1.304	42.74	9.67	56.00	-13.26	Peak	N	Pass
3*	1.304	22.82	9.67	56.00	-33.18	QP	N	Pass
3**	1.304	25.70	9.67	46.00	-20.30	AV	N	Pass
4	4.308	23.72	9.69	56.00	-32.28	Peak	N	Pass
4*	4.308	13.15	9.69	56.00	-42.85	QP	N	Pass
4**	4.308	17.37	9.69	46.00	-28.63	AV	N	Pass
5	15.656	33.59	9.52	60.00	-26.41	Peak	N	Pass
5*	15.656	26.56	9.52	60.00	-33.44	QP	N	Pass
5**	15.656	22.80	9.52	50.00	-27.20	AV	N	Pass
6	22.824	34.11	9.44	60.00	-25.89	Peak	N	Pass
6*	22.824	28.67	9.44	60.00	-31.33	QP	N	Pass
6**	22.824	24.73	9.44	50.00	-25.27	AV	N	Pass

**Result: Pass**

Note: Factor=Insertion Loss + Cable Loss, Over Limit= Results- Limit.

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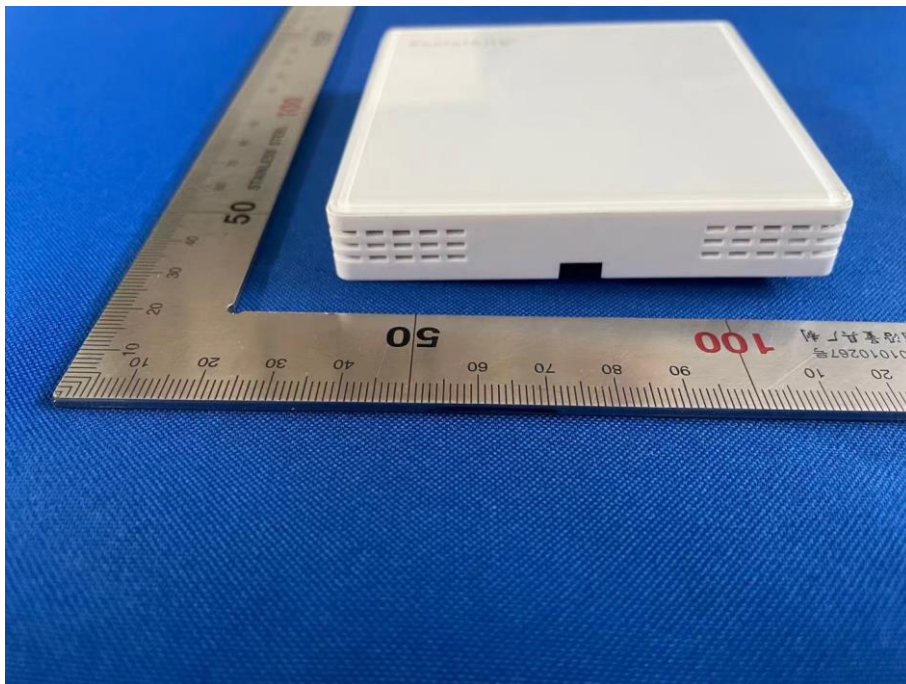
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## 5 Appendixes

### 5.1 Photographs of the Sample



Top view of EUT



Bottom view of EUT



# TEST REPORT

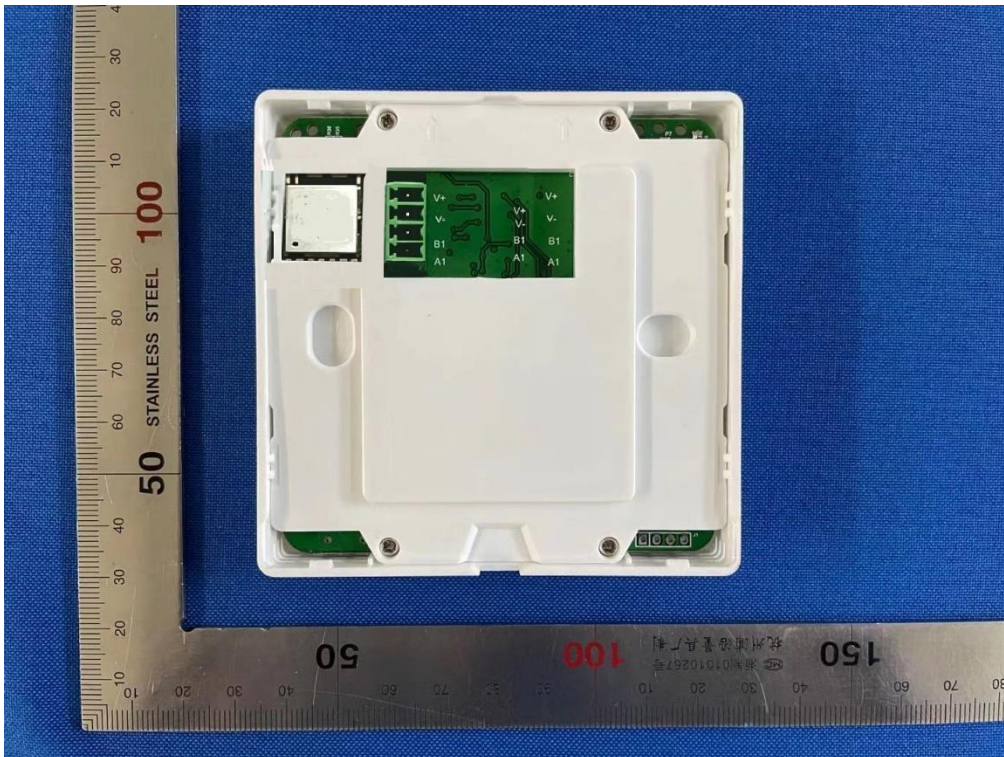
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Front view of EUT



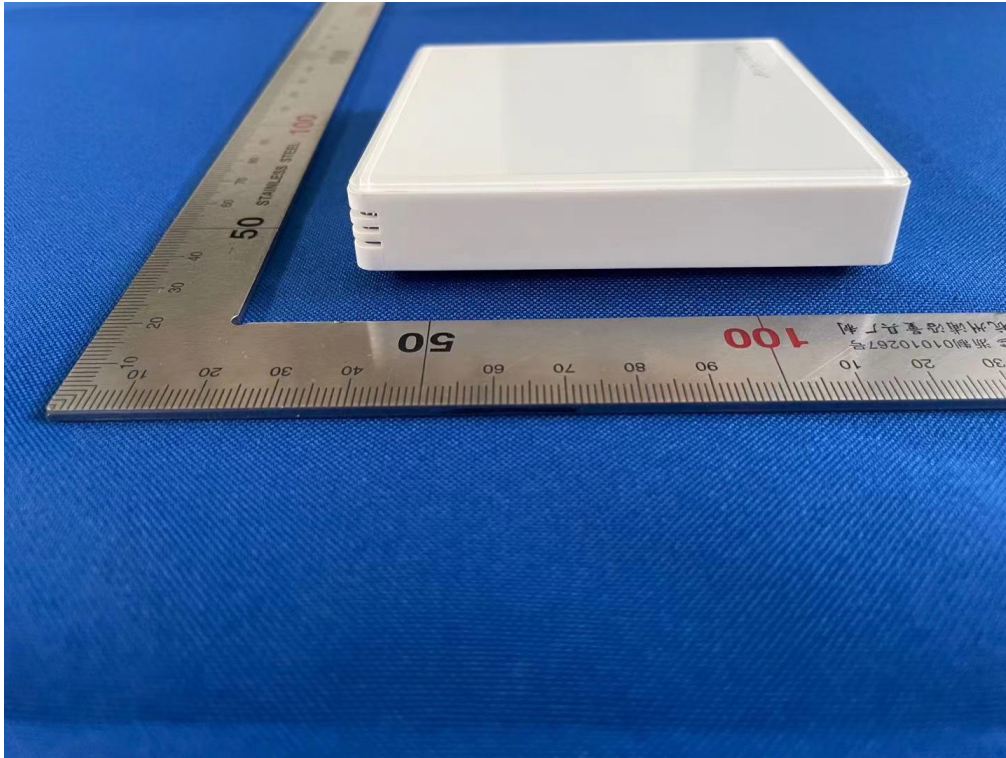
Back view of EUT

# TEST REPORT

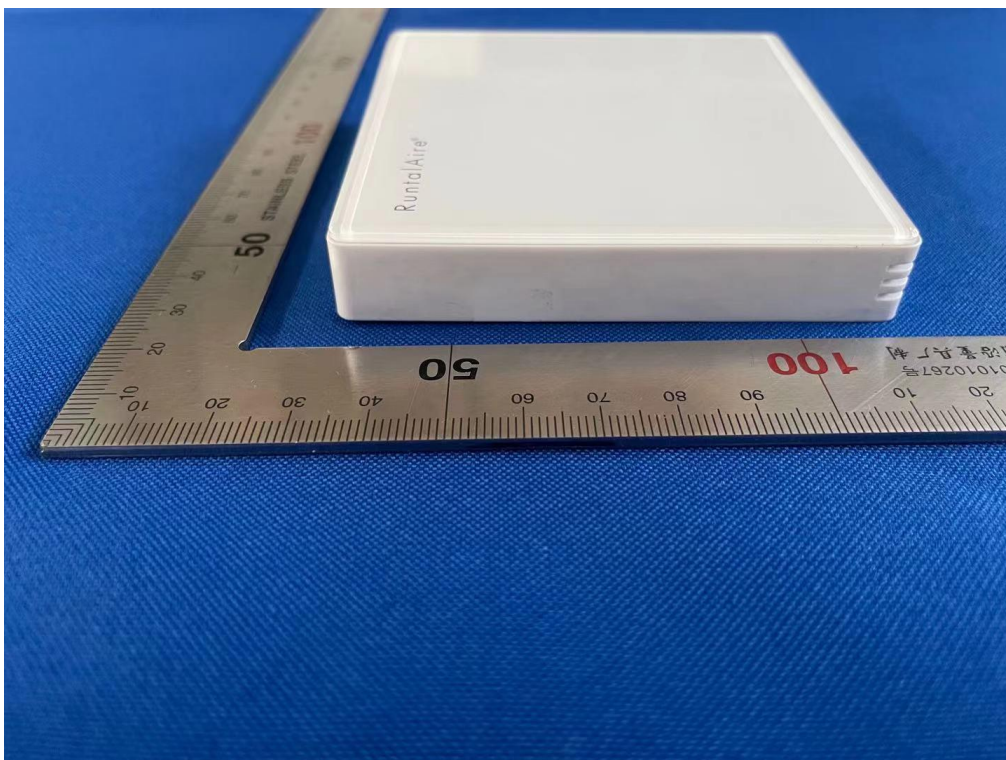
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Left view of EUT



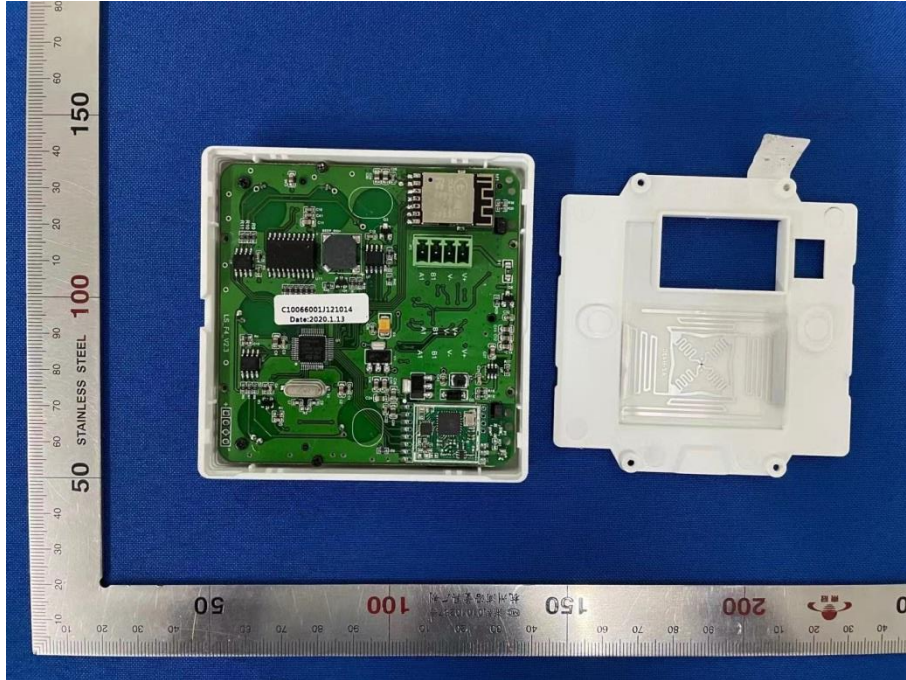
Right view of EUT

# TEST REPORT

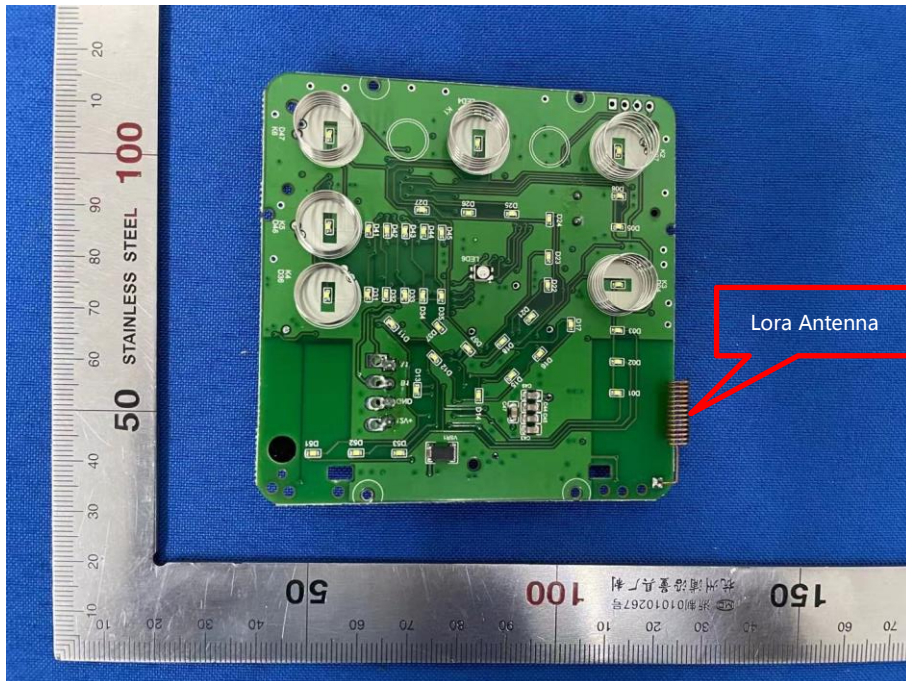
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Open view of EUT



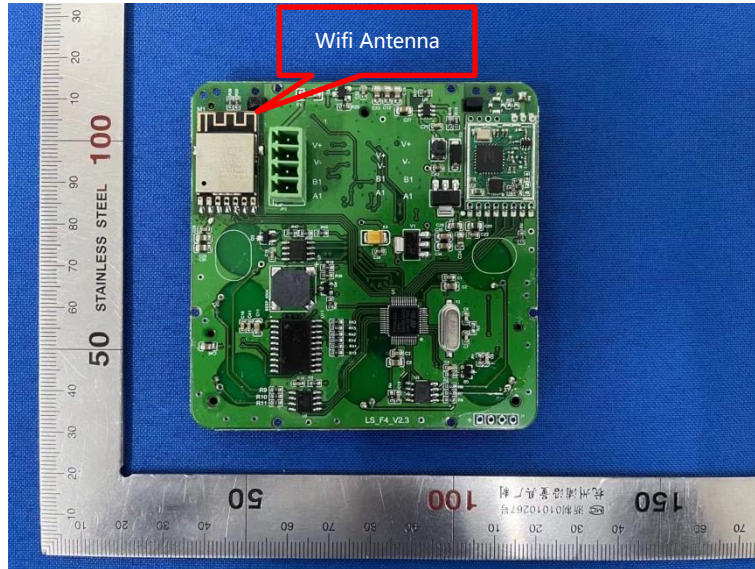
Internal view of EUT-1

# TEST REPORT

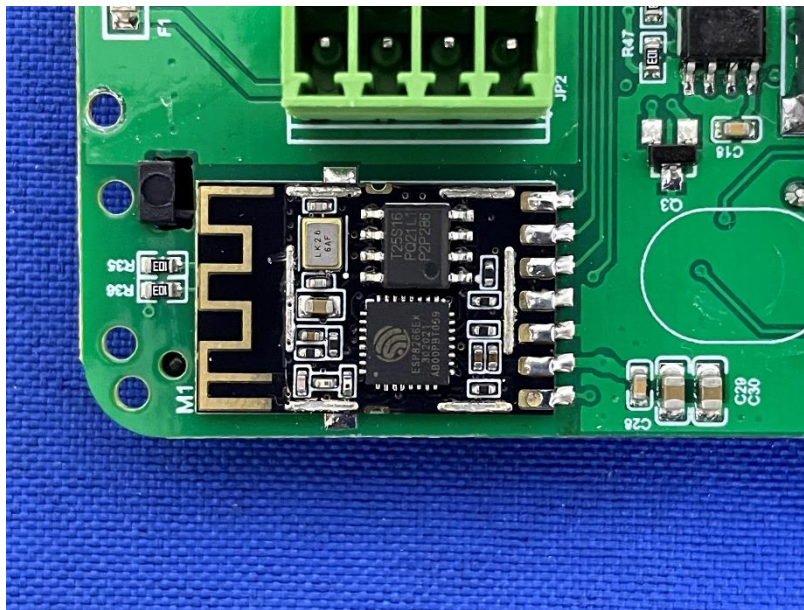
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Internal view of EUT-2



Remove shield cover of EUT

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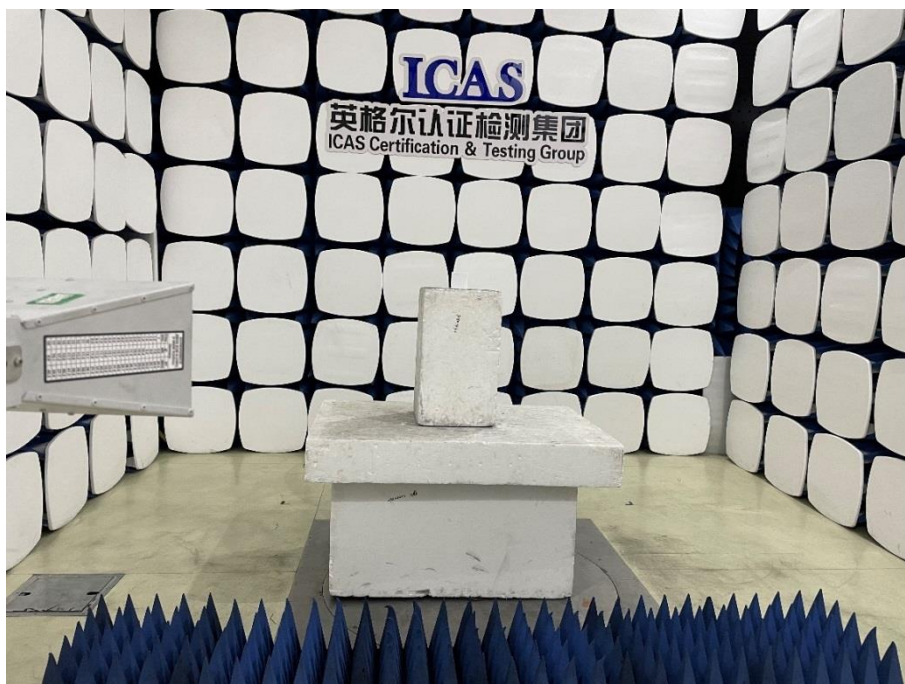
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## 5.2 Photographs of the Test Set-up

FCC Radiated Emission Test Setup-Below 1GHz



FCC Radiated Emission Test Setup-Above 1GHz



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## AC power-line conducted emission Test Setup



\*\*\*End of the report\*\*\*