



FCC PART18 TEST REPORT

Report No.: 20240317G05066X-E

Product Name: Microwave Oven

Trade Name: Midea, HIGH POINTE

Model No. : E(A)C028A##, E(A)C028A***, E(A)C028A##-S0R,
E(A)C028A***-S0R, EC028A##-S1, EC028A***-S1,
EC028A##-S1R, EC028A***-S1R, EC028A##-SHR,
EC028A***-SHR, EC028BAF, EC028KAF

FCC ID : VG8EC028AYY

Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Received Date: 2024.03.25

Test Data: 2024.03.25-2024.03.26

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No.43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

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Test Report

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EC028A##-S1R, EC028A***-S1R, EC028A##-SHR,
EC028A***-SHR, EC028BAF, EC028KAF

Trade name..... Midea, HIGH POINTE

Applicant..... Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Applicant Address..... No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Manufacturer Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Manufacturer Address No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Test Standards 47 CFR Part 18
47 CFR Part 15 Subpart B

Test Result..... PASS

Tested by Sun Jiaohui
Sun Jiaohui Test Engineer 2024.03.27

Reviewed by Chris You
Chris You Senior Engineer 2024.03.27

Approved by Yang Fan
Yang Fan, Manager 2024.03.27

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Change History		
Issue	Date	Reason for change
1.0	2024.03.27	First edition



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

EUT Name	Microwave Oven
Trade Name.....	Midea, HIGH POINTE
Model.....	E(A)C028A##, E(A)C028A***, E(A)C028A##-S0R, E(A)C028A***-S0R, EC028A##-S1, EC028A***-S1, EC028A##-S1R, EC028A***-S1R, EC028A##-SHR, EC028A***-SHR, EC028BAF, EC028KAF model designations as follows: E: Film type keypad; A: Rotating type knob; C: Microwave + Grill + Convection function; 028: "0" indicates the microwave output power is 1000W, "28" indicates cavity capacity is 28 liters; A: indicates the design No.; ## or ***: "#", "*" may be 0~9, A~Z or blank, stands for different appearance; -S: Indicates Stainless Steel Cavity; "0" or "1": Indicates different convection modes change. H: With humidity; R: Built in. Two customer models "EC028BAF, EC028KAF" with trade mark as "HIGH POINTE" which are identical to Midea model EC028A2BA-SHR except for model number, trade mark and appearance. Model of EC028A2BA-SHR was selected for final testing.
Power Supply	120V AC/60Hz
Rated input Power(microwave):	1500W
Rated output Power(microwave):	1000W
Rated Input Power (Convection):	1450W
Input Heater Watts Grill Power:	1150W
Frequency.....	2450MHz(ClassB/Group 2)
Magnetron Model.....	2M319J
Magnetron Manufacturer ...	WITOL
Description of Support Units:	-Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven. -Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven.

-Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker located in the center of the oven and with it in the right front corner.

-Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

Note 1: The EUT have the following typical setups during the test:

Setup1: Microwave heating mode(According to FCC PART 18);

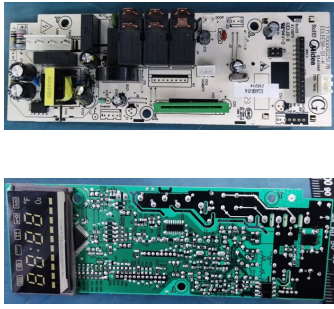
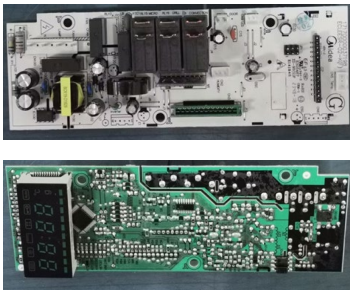
Setup2: Convection mode(According to FCC PART 15B,digital device)

Setup3: Grill mode(According to FCC PART 15B,digital device)

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: This is an updating report based the original report #: "20230217G01184X-E" which was re-tested on March 25th, 2024 to March 26th, 2024. Differences between them are as follow:

1. Difference in appearance & construction & PCB:

No.:	Original	New	Difference(s)
1			Keypad: Updated front keypad to accommodate child lock function (Child resistant oven door function)
2			Mother board: Modified the peripheral circuit (non-RF circuit) and some individual components and PCB layout. The magnetron and other circuit are exactly same as before.

3	Not Applicable		The new one adds a solenoid valve locking mechanism, but the original is not.
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2. Others are the same as before.

1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 18:

No.	Identity	Document Title
1	47 CFR Part 18	Radio Frequency Devices
2	47 CFR Part 15 Subpart B	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

Emission			
Standard	Item	Class / Severity	Result
47 CFR PART 18	Conducted Emission (150 kHz to 30 MHz)	18.307(b)	PASS
	Radiated Emission (30 MHz to 1 GHz)	18.305(b)	PASS
47 CFR PART 15	Conducted Emission (150 kHz to 30 MHz)	15.107	PASS
	Radiated Emission (30 MHz to 1 GHz)	15.109	PASS



1.3 Facilities and Accreditations

1.3.1 Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until June 30,2025.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until June 30,2025.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.3.2 Test Environment Conditions

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

Temperature (°C):	15°C- 35°C
Relative Humidity (%):	25% -75%
Atmospheric Pressure (kPa):	86kPa-106kPa

1.3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission:	Uc = 3.2 dB (k=2)
Uncertainty of Radiated Emission:(30MHz~1GHz)	Uc = 5.8 dB (k=2)
Uncertainty of Radiated Emission:(1~18GHz)	Uc = 5.1 dB (k=2)



2. EQUIPMENTS LIST

A. Equipment List:

Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due. Date
Test Receiver	Rohde & Schwarz	ESIB26	A0304218	2023.10.20	2024.10.19
LISN	ROHDE&SCHWARZ	NSLK 8127	A210803670	2023.06.08	2024.06.07
Shield Room	Xinju Electronics	L9000*W4500* H3100	A181003230	2021.09.05	2024.09.04
EMI Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2024.02.28	2025.02.27
Broadband Ant.	ETC	MCTD2786	A150402240	2023.05.21	2024.05.20
3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2024.02.27	2027.02.26
EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2021.06.08	2024.06.07
EMI Horn Ant.	ETC	1209	A150402241	2023.05.16	2024.05.23
Spectrum Analyzer	ROHDE&SCHWARZ	ESW26	A180502935	2023.06.08	2024.06.07
Portable Spectrometer	ROHDE&SCHWARZ	FSH8	A140401672	2024.02.13	2025.02.12
Probe	ROHDE&SCHWARZ	TSEMF-B1	A140401671	2024.02.14	2025.02.13

3. EMC EMISSION TEST

3.1 Test Procedure

Test Requirement: 47 CFR PART 18

Test Method: FCC/OST MP-5:1986

Power Supply: AC 120V/ 60Hz

Frequency Range: 2400-2500MHz

Detector: Peak

Limit: ISM equipment may be operated at any frequency above 9KHz and the frequency band 2400-2500MHz is allocated for use by ISM equipment

ISM frequency	Tolerance
6.78 MHz	±15.0 kHz
13.56 MHz	±7.0 kHz
27.12 MHz	±163.0 kHz
40.68 MHz	±20.0 kHz
915 MHz	±13.0 MHz
2,450 MHz	±50.0 MHz
5,800 MHz	±75.0 MHz
24,125 MHz	±125.0 MHz
61.25 GHz	±250.0 MHz
122.50 GHz	±500.0 MHz
245.00 GHz	±1.0 GHz

3.1.1 Frequency For Normal Voltage

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

3.1.2 Frequency For Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

3.1.3 Measurement data

Operating Mode	Frequency(MHz)
Normal Voltage	2433.5-2470.6
Line Voltage	2434.2-2470.8

3.2 RADIATION HAZARD TEST

3.2.1 Test Setup

The EUT was set-up according to the FCC MP-5 and FCC Part 18 for radiation Hazard measurement. The measurement was using a microwave leakage meter to measure the radiation leakage in the as-received condition with the oven door closed A 700mL water load in a breaker was located in the center of the oven and the microwave oven was set to maximum power. While the oven operating, the microwave meter will check the leakage and then record the maximum leakage.

3.2.2 Limit

A maximum of 1.0mW/cm² is allowed in according with the applicable FCC standards

3.2.3 Test results

Test location	Test result (mW/cm ²)	Limit(mW/cm ²)	Verdict
Left side	0.27	1.0	Pass
Right side	0.22	1.0	Pass
Front	0.37	1.0	Pass
Rear	0.29	1.0	Pass

There was no microwave leakage exceeding a power level of 0.37 m W/cm² Observed at any point 5cm or more from the external surface of the oven

3.3 RF OUTPUT POWER MEASUREMENT

3.3.1 Test Standard

Test Requirement	47 CFR PART 18
Test Method	FCC/OST MP-5:1986
Power Supply	AC120/60Hz

3.3.2 EUT Operating mode

Test the EUT in microwave mode with full power.

A quantity of 1 000 g +/-5 g of water is added to the container and its actual mass obtained. The food support for microwave heating is placed in the centre of the support immediately. The oven is operated and the time for the water temperature to attain 20 +/-2 °C is measured. The oven is then switched off and the final water temperature is measured within 60s.

3.3.3 Test Data

Mass of Water(g)	Mass of the container(g)	ambient temperature (°C)	Initial temperature(°C)	Final temperature(°C)	Heating Time(S)	Output Power(Watt)
1000	377	23.8	9.7	20.2	60	720.3

Formula:

The microwave power output is calculated from the formula

$$P = \frac{4,187 \cdot m_w (T_1 - T_0) + 0,55 \cdot m_c (T_1 - T_A)}{t}$$

where

P is the microwave power output, (W);

m_w is the mass of the water, (g);

m_c is the mass of the container, (g);

T_A is the ambient temperature, (°C);

T_0 is the initial temperature of the water, (°C);

T_1 is the final temperature of the water, (°C);

t is the heating time, in seconds, excluding the magnetron filament heating-up time. $\langle A_1 \rangle$

The microwave power output is stated in watts, rounded to the nearest 50 W.

4. CONDUCTED EMISSION

4.1.1 Conducted Emission Limit

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

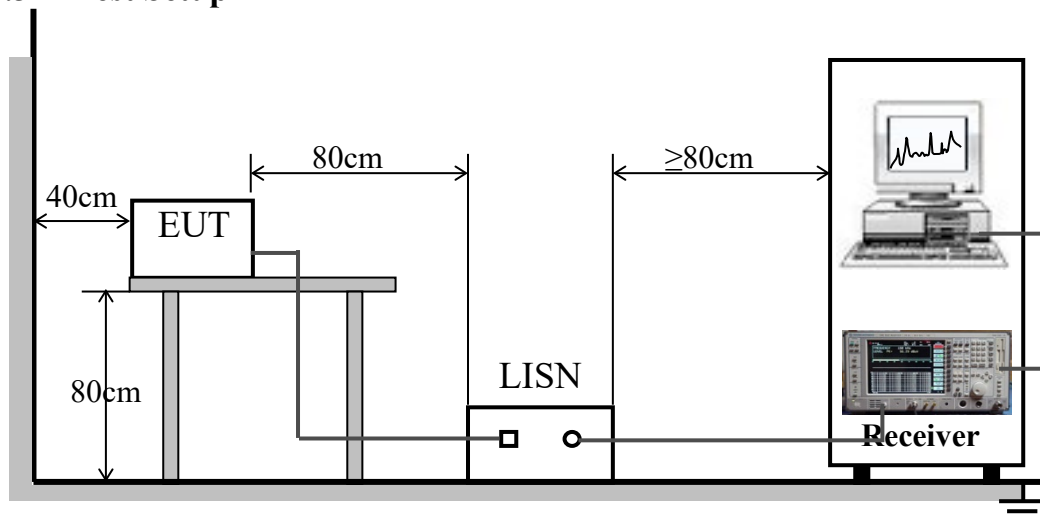
Note:

- The limit decreases linearly with the logarithm of the frequency in the range 0.05 MHz to 0.5 MHz.
- The lower limit is applicable at the transition frequency.

4.1.2 Test Procedure

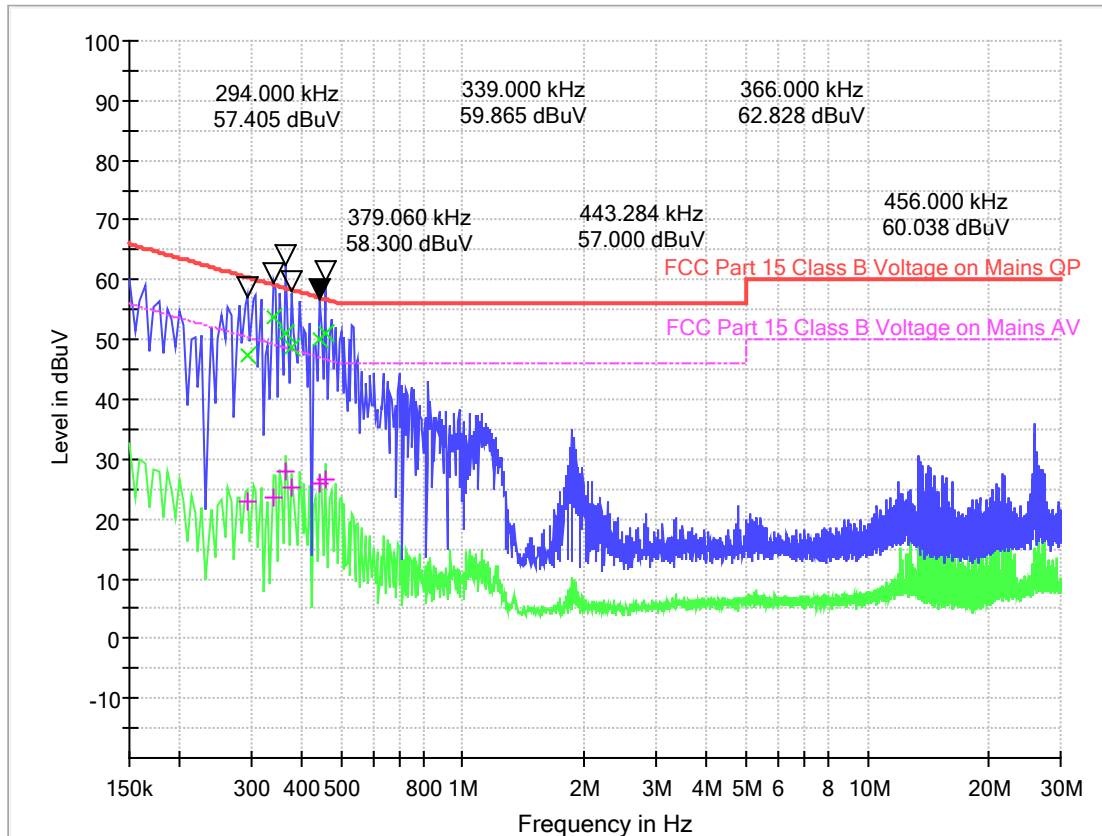
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

4.1.3 Test Setup



A. Test Result:

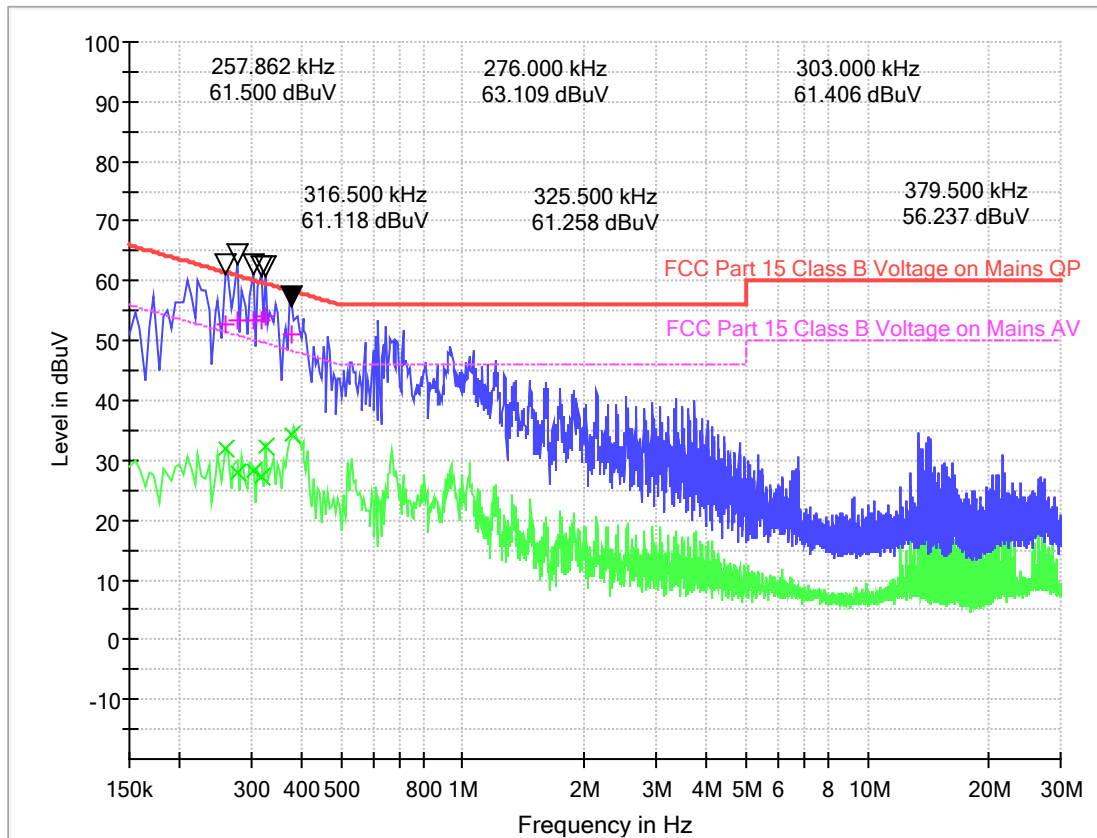
Mains terminal disturbance voltage, Setup1,L phase



(Plot A: L Phase)

Frequency (MHz)	Quasi Peak	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.294000	47.23	22.82	0.1	10.1	13.18	60.4	27.59	50.4
0.339000	53.69	23.46	0.1	10.1	5.54	59.2	25.77	49.2
0.366000	51.21	27.89	0.1	10.1	7.38	58.6	20.70	48.6
0.379500	48.78	25.14	0.1	10.1	9.51	58.3	23.15	48.3
0.442500	50.01	25.96	0.1	10.1	7.00	57.0	21.05	47.0
0.456000	50.96	26.48	0.1	10.1	5.81	56.8	20.29	46.8

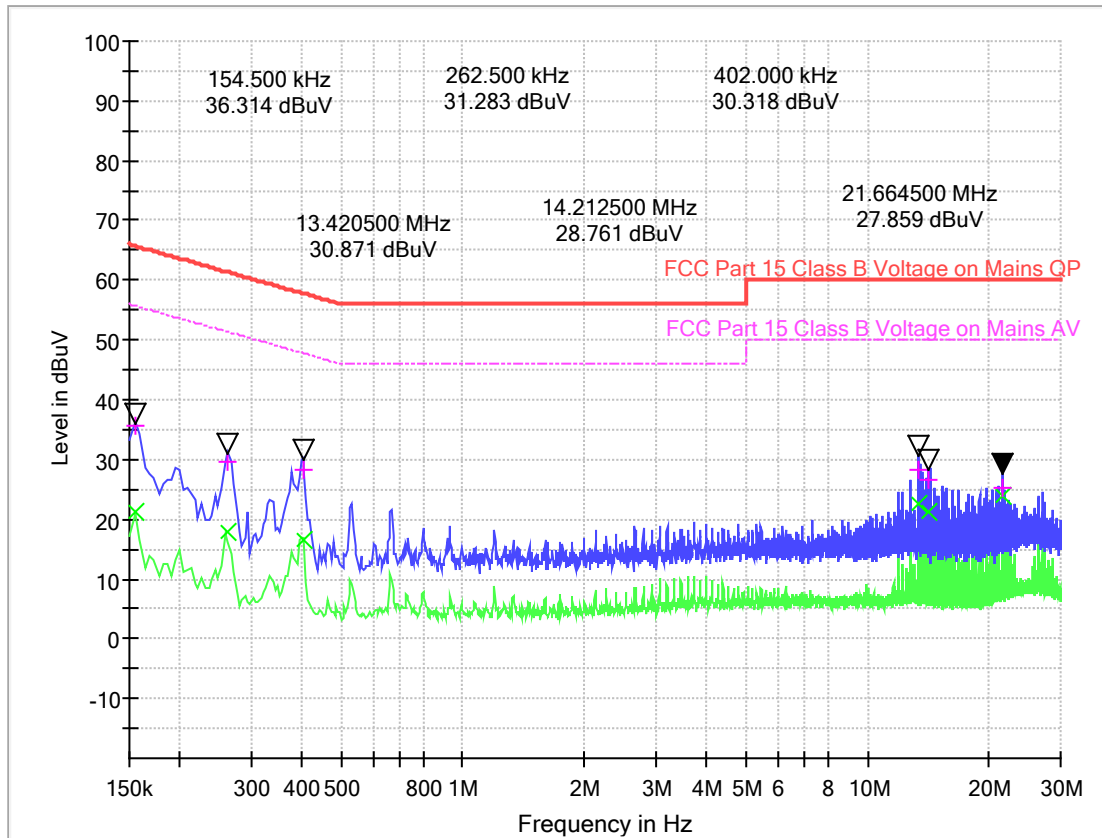
Mains terminal disturbance voltage, Setup 1, N phase



(Plot B: N Phase)

Frequency (MHz)	Quasi Peak	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.258000	52.87	32.03	0.1	10.1	8.63	61.5	19.47	51.5
0.276000	53.32	28.00	0.1	10.1	7.62	60.9	22.94	50.9
0.303000	53.30	28.41	0.1	10.1	6.86	60.2	21.75	50.2
0.316500	53.41	27.24	0.1	10.1	6.39	59.8	22.56	49.8
0.325500	54.21	32.16	0.1	10.1	5.36	59.6	17.41	49.6
0.379500	51.01	34.26	0.1	10.1	7.28	58.3	14.03	48.3

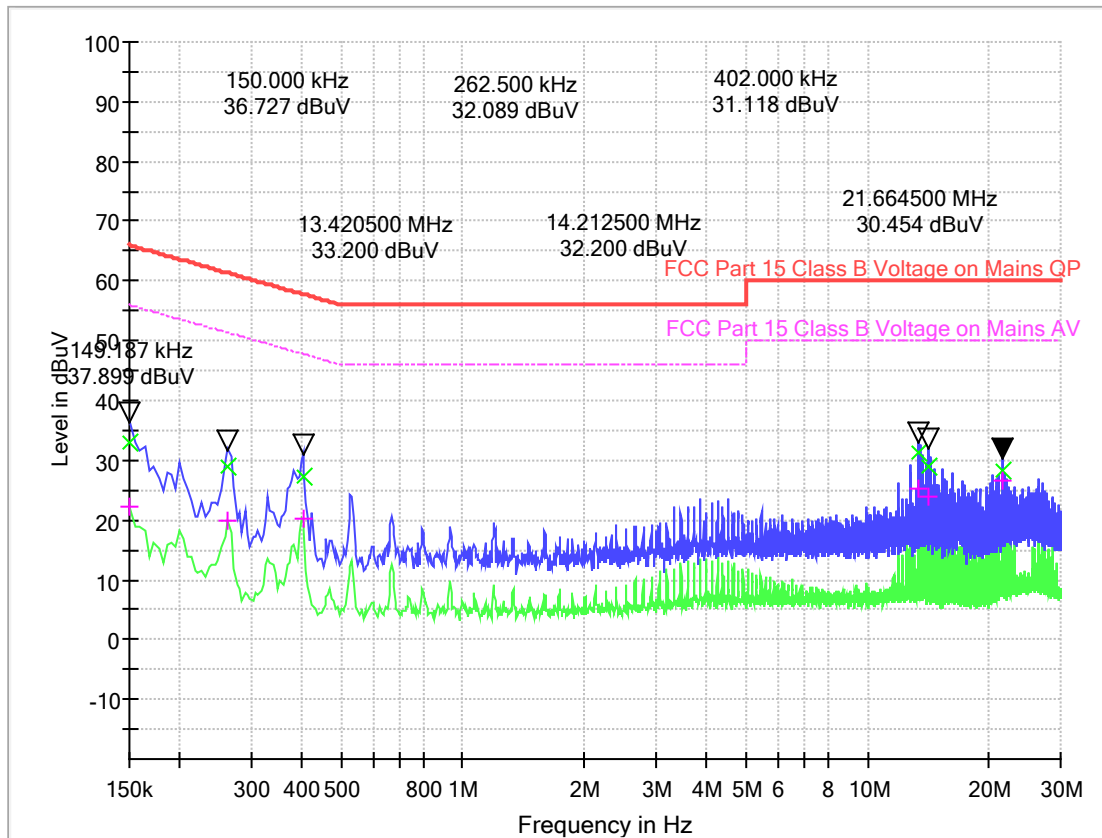
Mains terminal disturbance voltage, Setup2, L phase



(Plot E: L Phase)

Frequency (MHz)	Quasi Peak	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.154500	35.65	21.13	0.1	10.1	30.10	65.8	34.62	55.8
0.262500	29.68	17.88	0.1	10.1	31.67	61.4	33.47	51.4
0.402000	28.30	16.49	0.1	10.1	29.51	57.8	31.32	47.8
13.420500	28.33	22.57	0.5	10.5	31.67	60.0	27.43	50.0
14.212500	26.64	21.30	0.5	10.5	33.36	60.0	28.70	50.0
21.664500	25.19	23.91	0.5	10.5	34.81	60.0	26.09	50.0

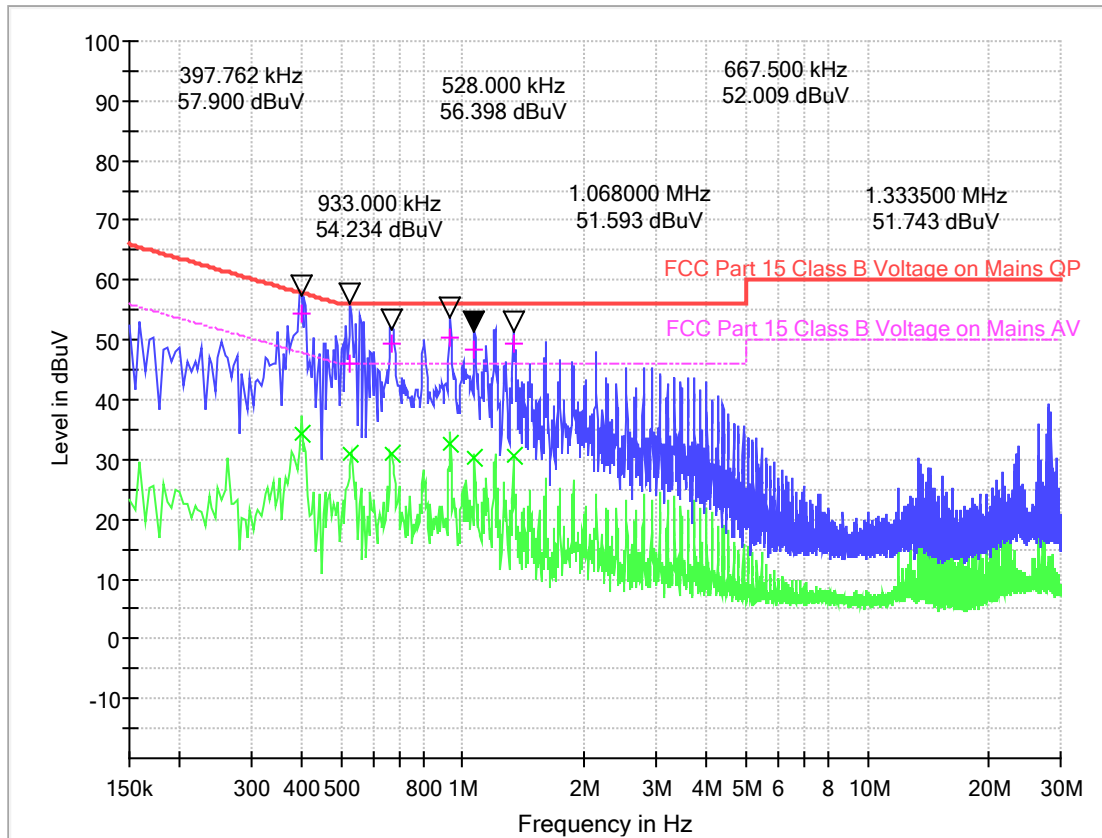
Mains terminal disturbance voltage, Setup 2, N phase



(Plot F: N Phase)

Frequency (MHz)	QuasiPea k	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.150000	32.92	22.27	0.1	10.1	33.08	66.0	33.73	56.0
0.262500	28.90	19.76	0.1	10.1	32.45	61.4	31.59	51.4
0.402000	27.26	20.36	0.1	10.1	30.55	57.8	27.45	47.8
13.420500	31.21	25.26	0.5	10.5	28.79	60.0	24.74	50.0
14.212500	29.09	23.77	0.5	10.5	30.91	60.0	26.23	50.0
21.664500	28.28	26.62	0.5	10.5	31.72	60.0	23.38	50.0

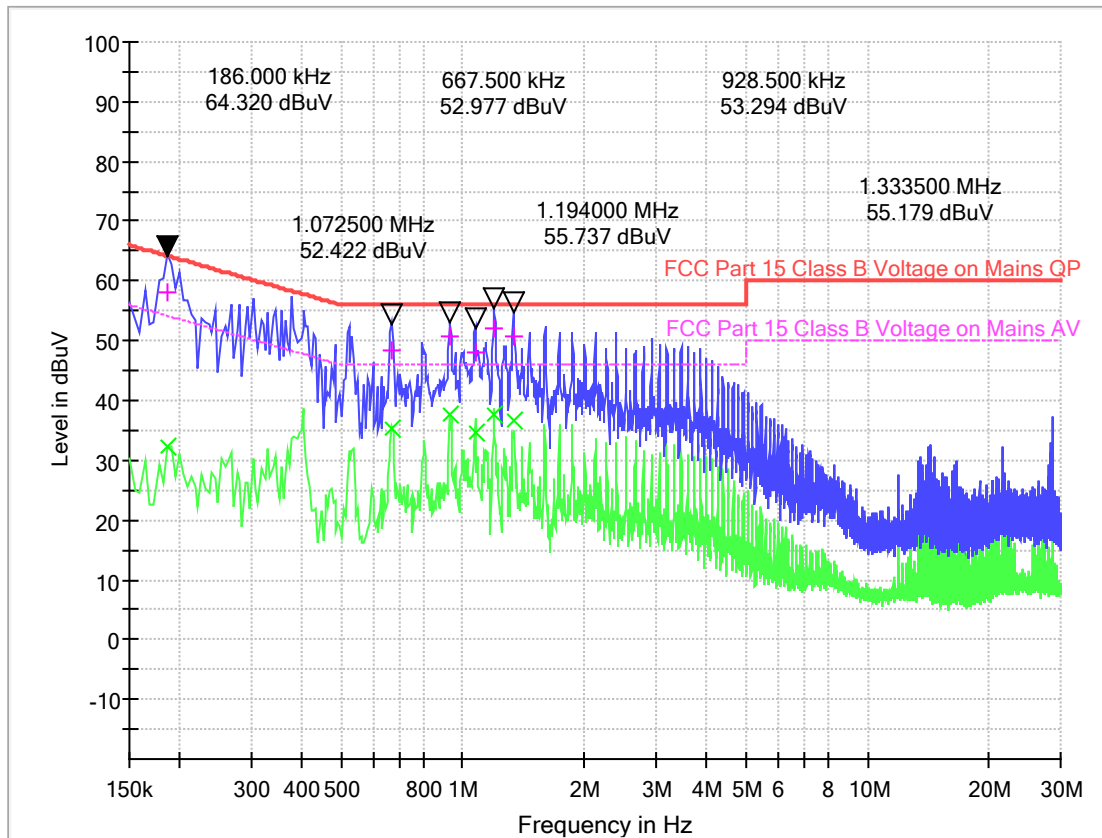
Mains terminal disturbance voltage, Setup3, L phase



(Plot E: L Phase)

Frequency (MHz)	Quasi Peak	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.397500	54.36	34.30	0.1	10.1	3.55	57.9	13.61	47.9
0.528000	46.11	31.00	0.1	10.1	9.89	56.0	15.00	46.0
0.667500	49.48	30.87	0.1	10.1	6.52	56.0	15.13	46.0
0.933000	50.28	32.72	0.2	10.2	5.72	56.0	13.28	46.0
1.068000	48.24	30.18	0.2	10.2	7.76	56.0	15.82	46.0
1.333500	49.55	30.55	0.2	10.2	6.45	56.0	15.45	46.0

Mains terminal disturbance voltage, Setup 3, N phase



(Plot F: N Phase)

Frequency (MHz)	QuasiPea k	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.186000	58.24	32.35	0.1	10.1	5.97	64.2	21.86	54.2
0.667500	48.25	35.39	0.1	10.1	7.75	56.0	10.61	46.0
0.928500	50.68	37.65	0.2	10.2	5.32	56.0	8.35	46.0
1.072500	48.10	34.75	0.2	10.2	7.90	56.0	11.25	46.0
1.194000	52.21	37.74	0.2	10.2	3.79	56.0	8.26	46.0
1.333500	50.65	36.72	0.2	10.2	5.35	56.0	9.28	46.0

Test Result: PASS

5. RADIATED EMISSION

5.1.1 Radiated Emission Limits

- (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
- (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

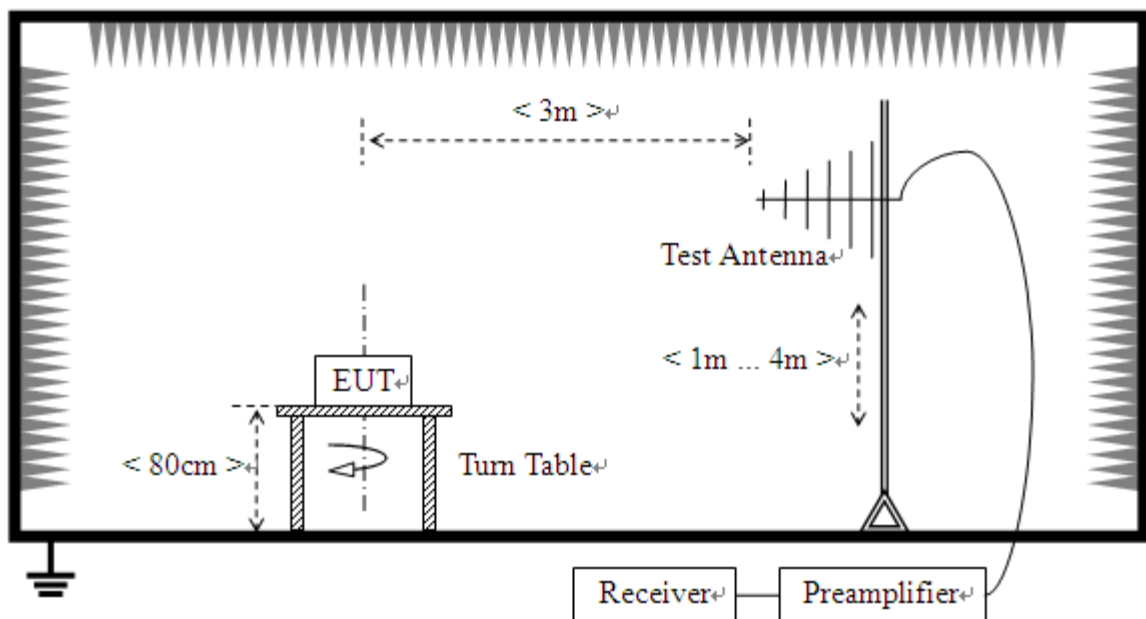
RF Power generated by equipment(watts)	Field strength limit(uV/m) @300m
Below 500	25
500or more	$25 \cdot \text{SQRT}(\text{power}/500)$

Power =720.3W

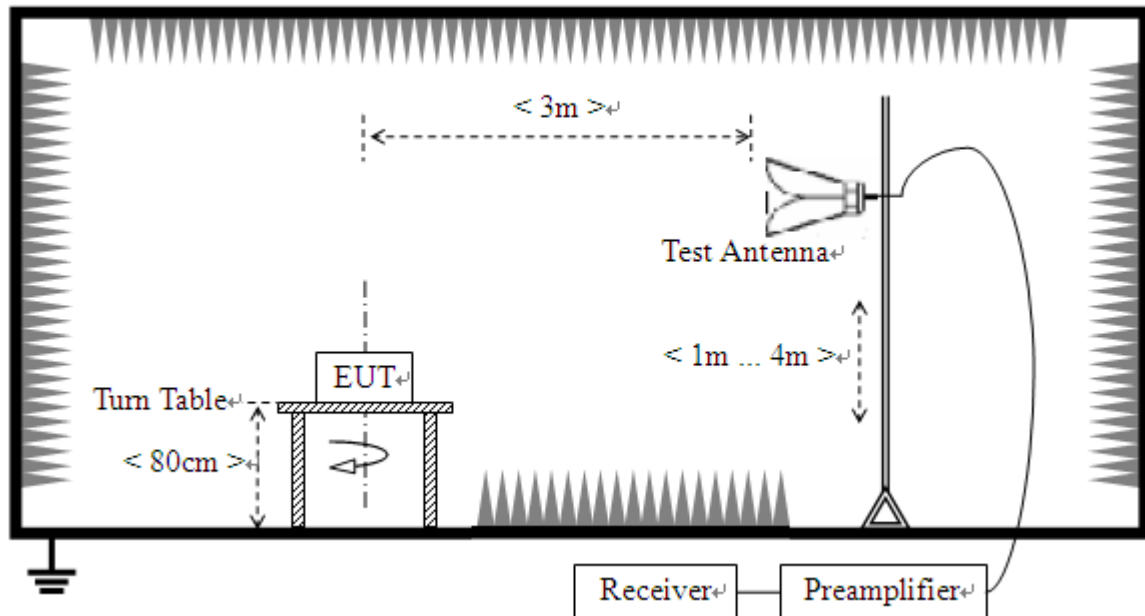
Limit= $20\lg(25 \cdot \text{SQRT}(\text{power}/500)) + 20\lg(300/3)$ @ 3m distance.

5.1.2 Test Setup

For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



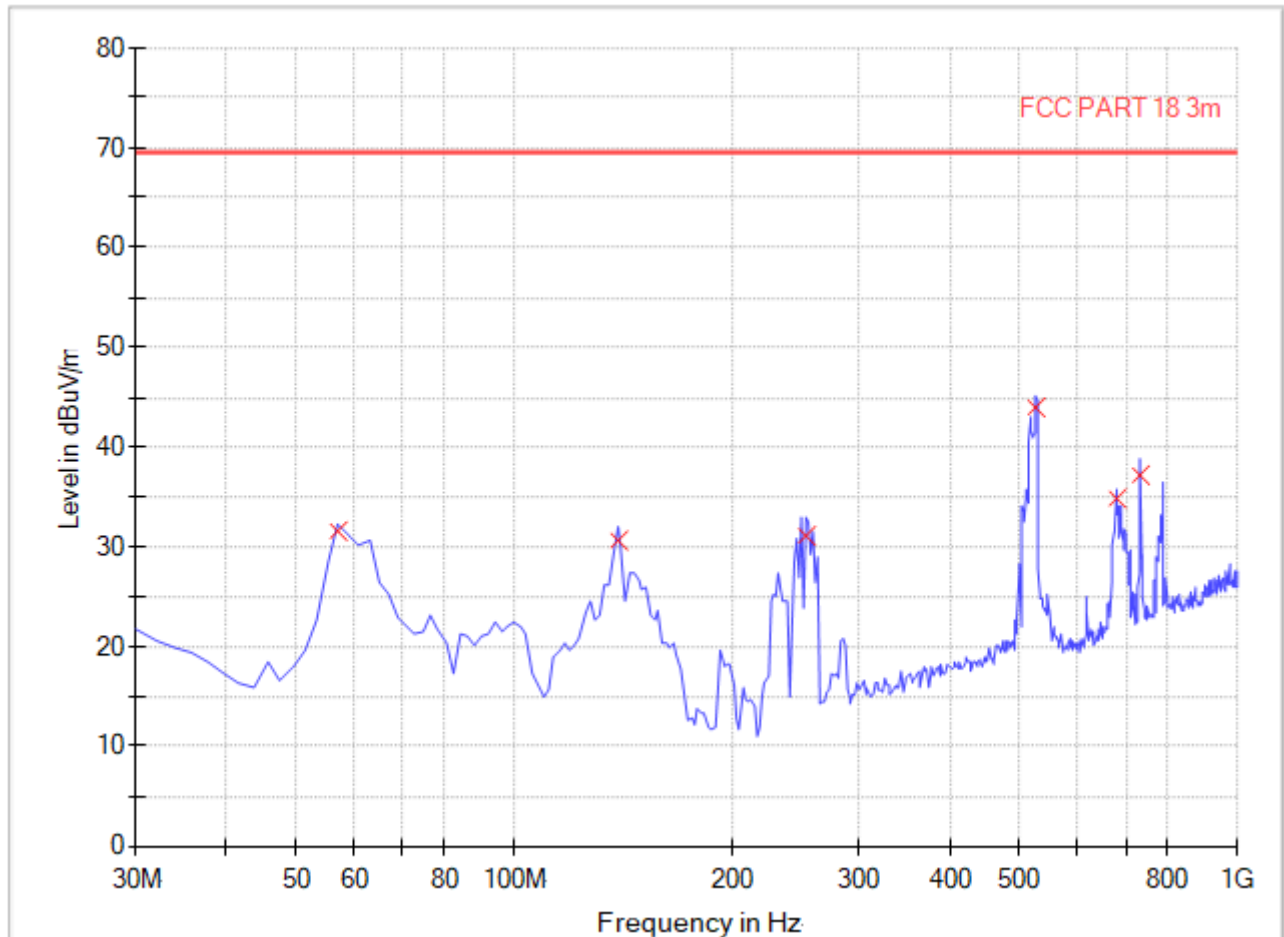
5.1.3 Test Procedure

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

Test Result:

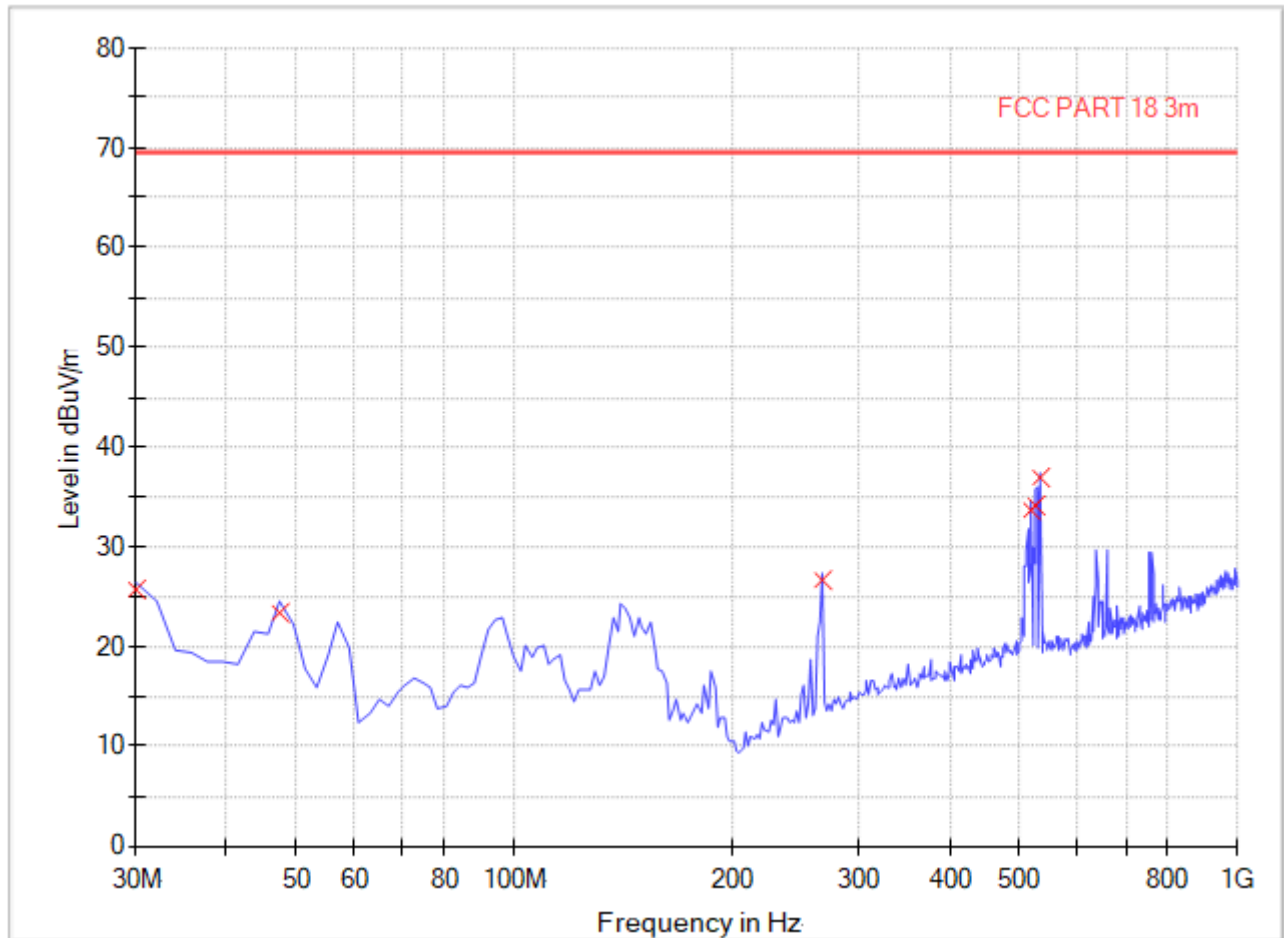
Radiation disturbances, antenna polarization:Setup1,Horizontal



(Plot A: Test Antenna Horizontal 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
57.20	31.53	120.000	100.0	69.54	38.01	Horizontal	Pass
138.84	30.75	120.000	100.0	69.54	38.79	Horizontal	Pass
253.56	31.01	120.000	100.0	69.54	38.53	Horizontal	Pass
527.64	44.09	120.000	100.0	69.54	25.45	Horizontal	Pass
681.20	34.93	120.000	100.0	69.54	34.61	Horizontal	Pass
735.64	37.18	120.000	100.0	69.54	32.36	Horizontal	Pass

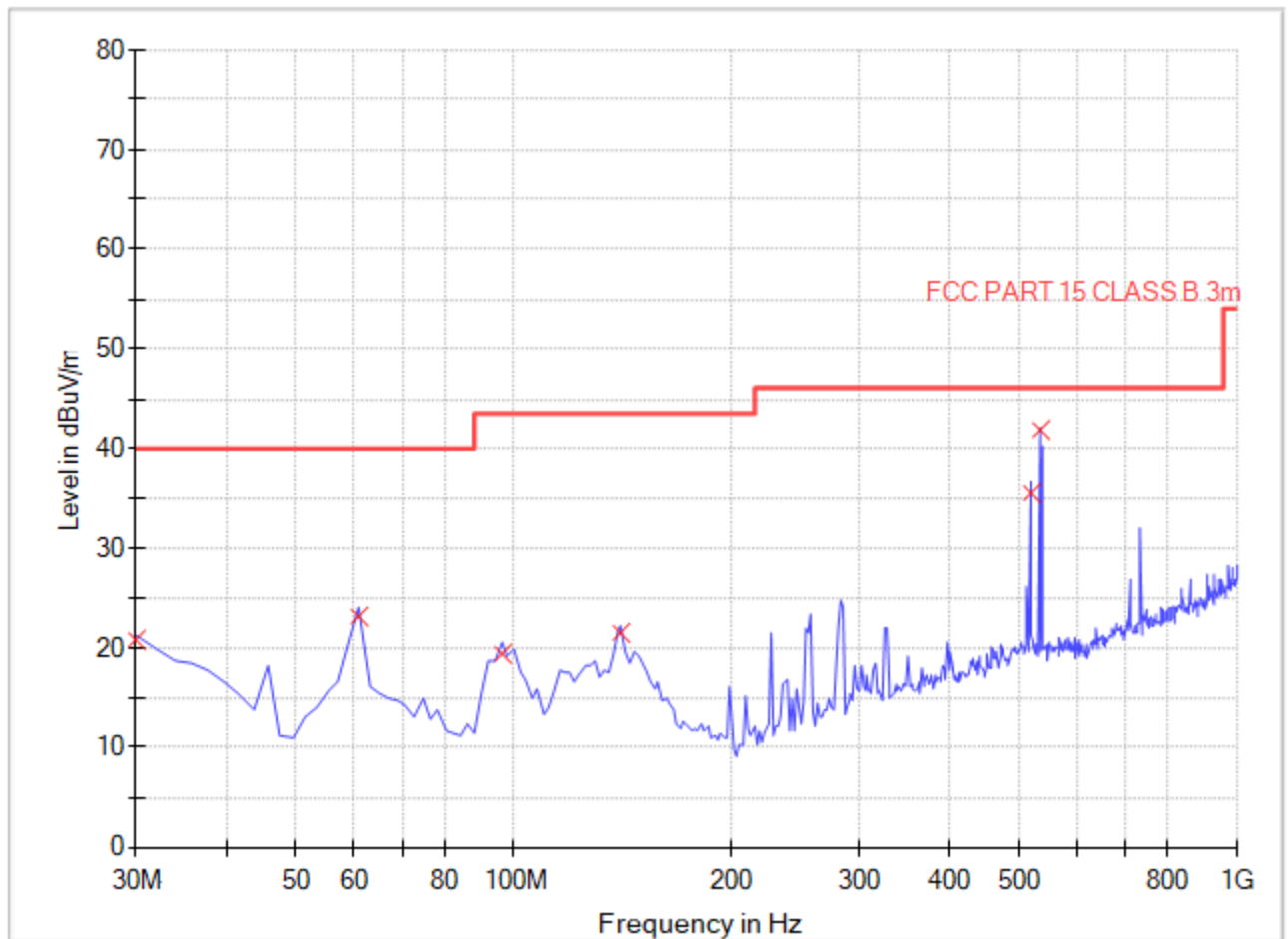
Radiation disturbances, antenna polarization:Setup1,Vertical



(Plot B: Test Antenna Vertical 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.00	25.63	120.000	100.0	69.54	38.01	Vertical	Pass
47.48	23.43	120.000	100.0	69.54	38.79	Vertical	Pass
267.16	26.56	120.000	100.0	69.54	38.53	Vertical	Pass
519.84	33.76	120.000	100.0	69.54	25.45	Vertical	Pass
527.64	34.09	120.000	100.0	69.54	34.61	Vertical	Pass
533.48	36.87	120.000	100.0	69.54	32.36	Vertical	Pass

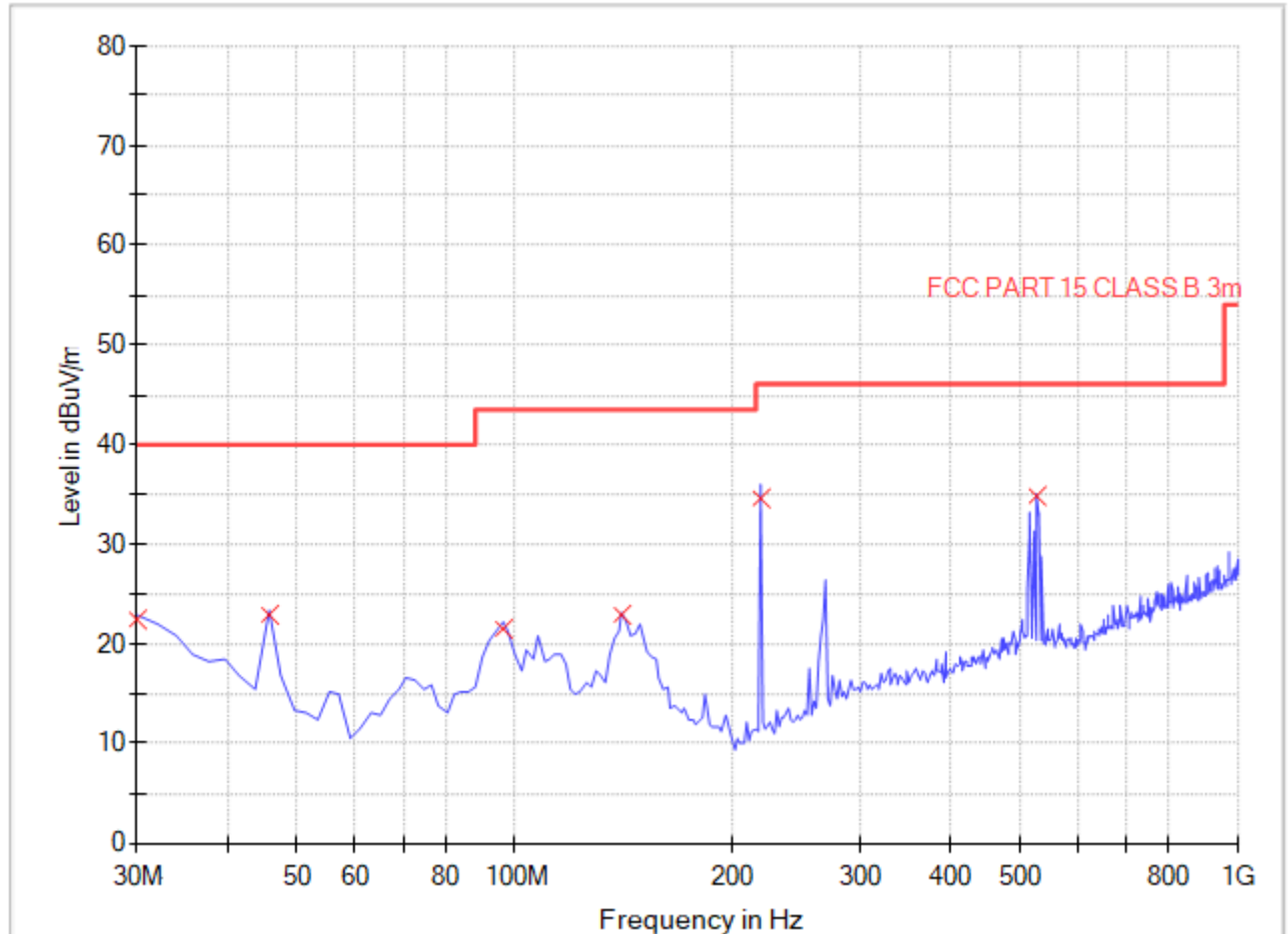
Radiation disturbances, antenna polarization: Setup2, Horizontal



(Plot E: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBuV/m)	Margin (dB)	Antenna	Verdict
30.00	20.91	120.000	100.0	40.00	19.09	Horizontal	Pass
61.12	23.27	120.000	100.0	40.00	16.73	Horizontal	Pass
96.08	19.37	120.000	100.0	43.50	24.13	Horizontal	Pass
140.80	21.44	120.000	100.0	43.50	22.06	Horizontal	Pass
517.92	35.62	120.000	100.0	46.00	10.38	Horizontal	Pass
533.48	41.98	120.000	100.0	46.00	4.02	Horizontal	Pass

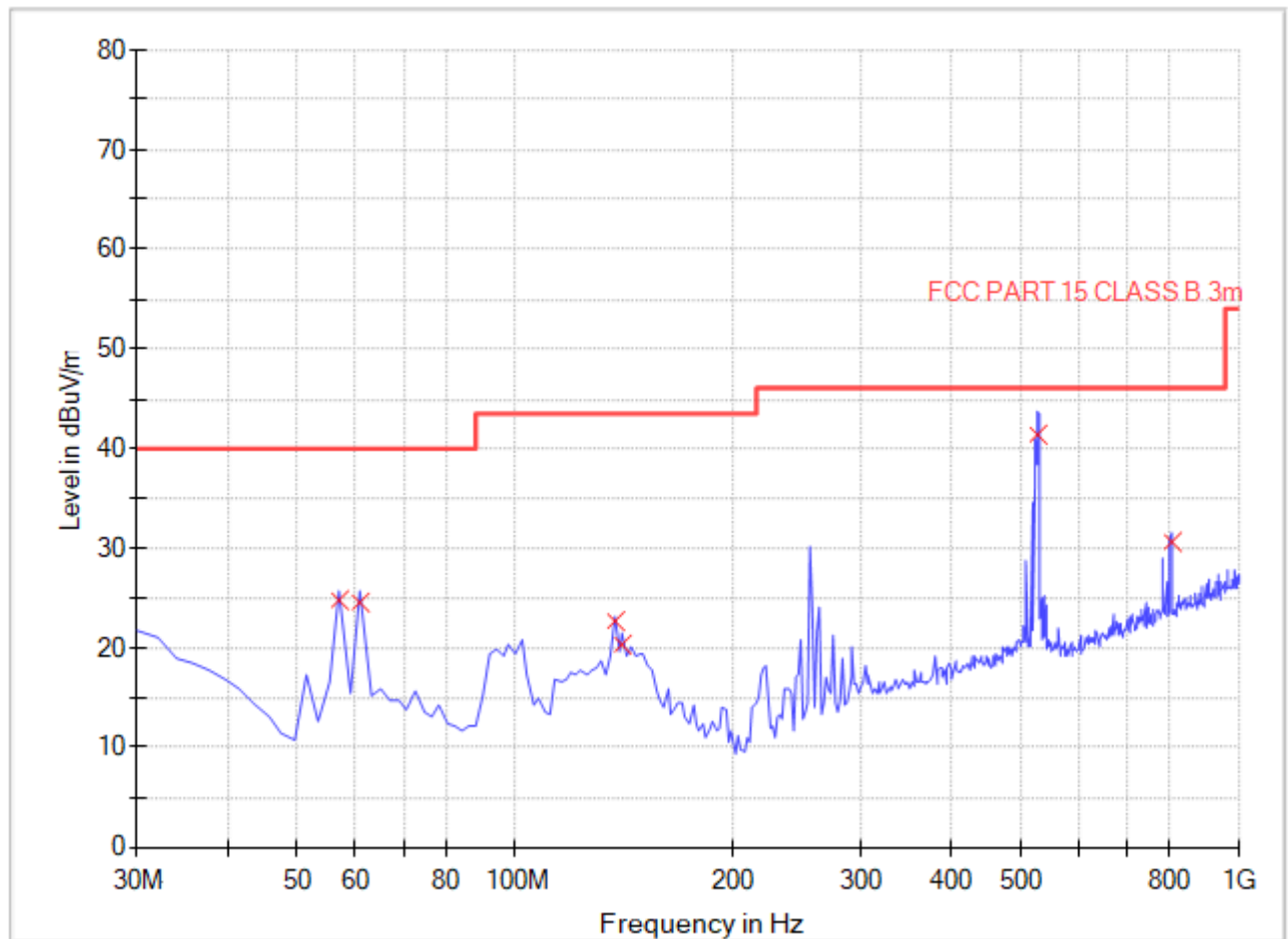
Radiation disturbances, antenna polarization: Setup2, Vertical



(Plot F: Test Antenna Vertical30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.00	22.39	120.000	100.0	40.00	17.61	Vertical	Pass
45.56	22.95	120.000	100.0	40.00	17.05	Vertical	Pass
96.08	21.59	120.000	100.0	43.50	21.91	Vertical	Pass
140.80	22.85	120.000	100.0	43.50	20.65	Vertical	Pass
218.56	34.66	120.000	100.0	46.00	11.34	Vertical	Pass
527.64	34.89	120.000	100.0	46.00	11.11	Vertical	Pass

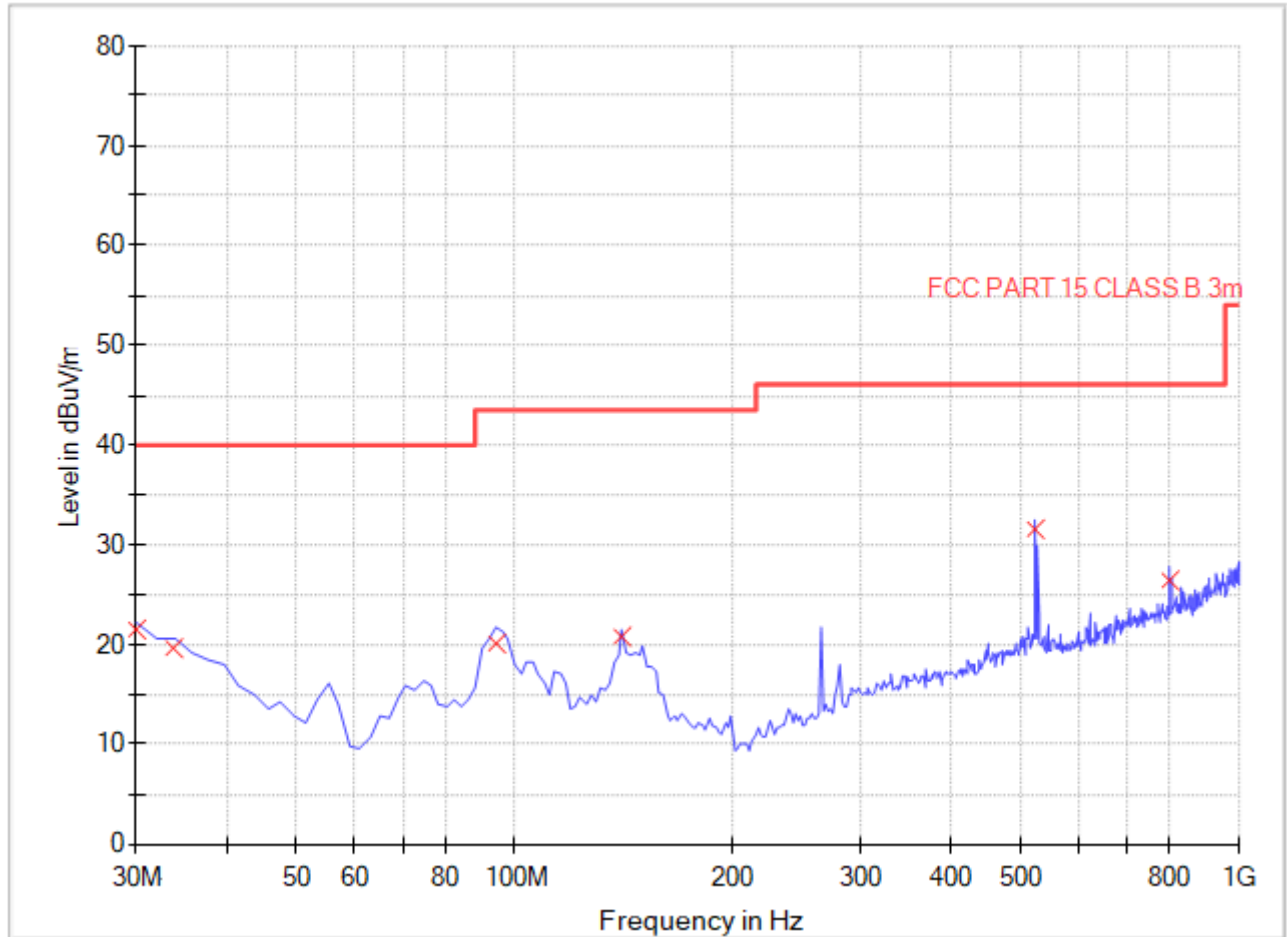
Radiation disturbances, antenna polarization: Setup3, Horizontal



(Plot E: Test Antenna Horizontal 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
57.20	24.75	120.000	100.0	40.00	15.25	Horizontal	Pass
61.12	24.53	120.000	100.0	40.00	15.47	Horizontal	Pass
136.92	22.59	120.000	100.0	43.50	20.91	Horizontal	Pass
140.80	20.41	120.000	100.0	43.50	23.09	Horizontal	Pass
527.64	41.33	120.000	100.0	46.00	4.67	Horizontal	Pass
805.60	30.69	120.000	100.0	46.00	15.31	Horizontal	Pass

Radiation disturbances, antenna polarization: Setup3, Vertical



(Plot F: Test Antenna Vertical30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.00	21.42	120.000	100.0	40.00	18.58	Vertical	Pass
33.88	19.74	120.000	100.0	40.00	20.26	Vertical	Pass
94.16	20.15	120.000	100.0	43.50	23.35	Vertical	Pass
140.80	20.71	120.000	100.0	43.50	22.79	Vertical	Pass
523.76	31.65	120.000	100.0	46.00	14.35	Vertical	Pass
801.72	26.38	120.000	100.0	46.00	19.62	Vertical	Pass

Above 1GHz, Setup1

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2203.05	53.14	-11.79	69.54	16.40	100	234	Horizontal
2	2356.09	56.57	-11.10	69.54	12.97	100	252	Horizontal
3	3784.45	55.87	-5.81	69.54	13.67	100	66	Horizontal
4	4898.22	58.34	-1.73	69.54	11.20	100	245	Horizontal
5	7223.56	59.64	2.37	69.54	9.90	100	261	Horizontal
6	10496.87	57.71	5.71	69.54	11.83	100	193	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2445.36	57.28	-10.77	69.54	12.26	100	284	Vertical
2	3372.09	54.89	-7.59	69.54	14.65	100	302	Vertical
3	4783.45	54.10	-1.42	69.54	15.44	100	315	Vertical
4	7431.86	60.02	1.78	69.54	9.52	100	33	Vertical
5	9234.31	56.88	3.70	69.54	12.66	100	125	Vertical
6	12805.20	60.50	6.01	69.54	9.04	100	284	Vertical

Above 1GHz Setup2, 3(See Remark 3)

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	--	--	--	--	--	--	Vertical
2	--	--	--	--	--	--	Vertical
3	--	--	--	--	--	--	Vertical
4	--	--	--	--	--	--	Vertical
5	--	--	--	--	--	--	Vertical
6	--	--	--	--	--	--	Vertical

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	--	--	--	--	--	--	Horizontal
2	--	--	--	--	--	--	Horizontal
3	--	--	--	--	--	--	Horizontal
4	--	--	--	--	--	--	Horizontal
5	--	--	--	--	--	--	Horizontal
6	--	--	--	--	--	--	Horizontal

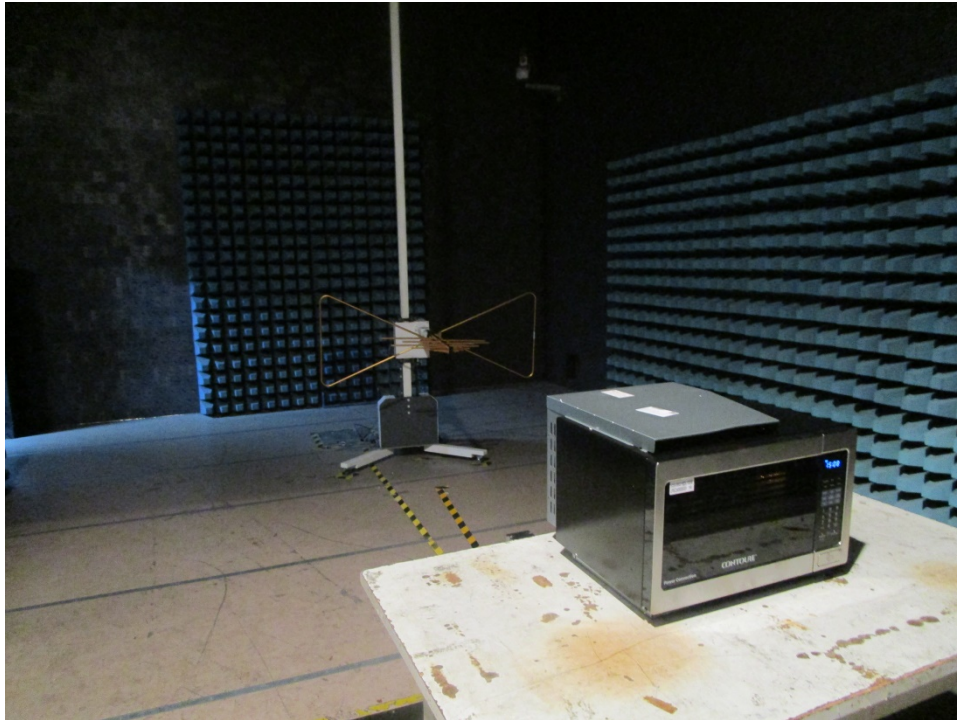


REMARKS:

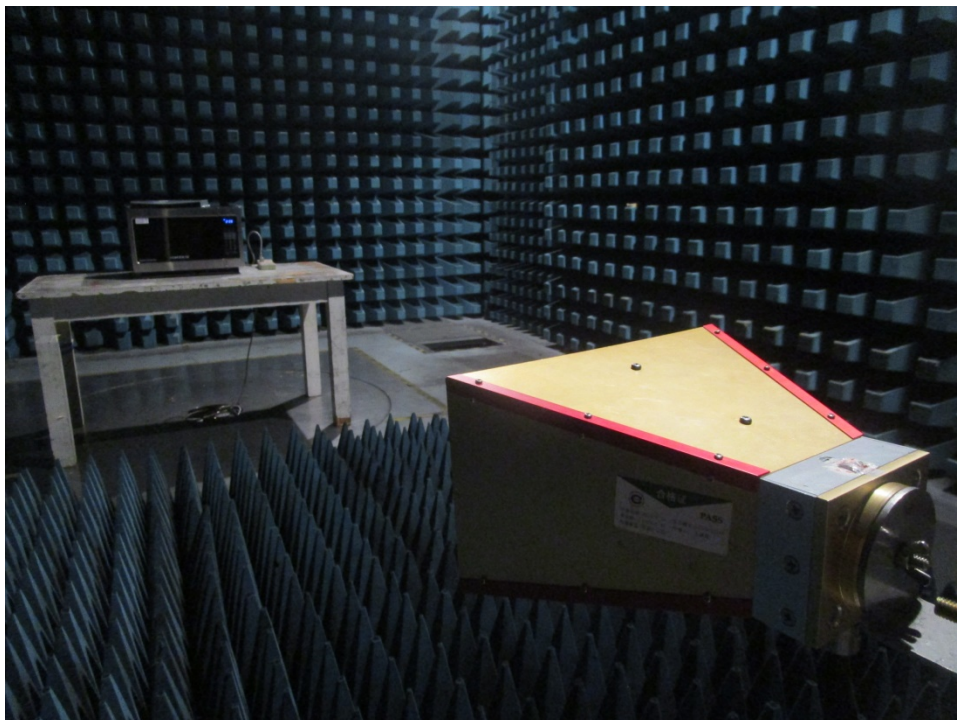
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. For Set up 2, 3 mode, The EUT's internal highest frequency is less than 108MHz,so test frequency range is up to 1000MHz.Other frequency reading was too low against the official limit that not recorded.

APPENDIX I: PHOTOGRAPHS OF EMC TEST CONFIGURATION

1. Radiated Emission Measurement below 1GHz



2. Radiated Emission Measurement above 1GHz



3. Conducted emission at AC mains input/output port Measurement



4. Radiation Hazard Test

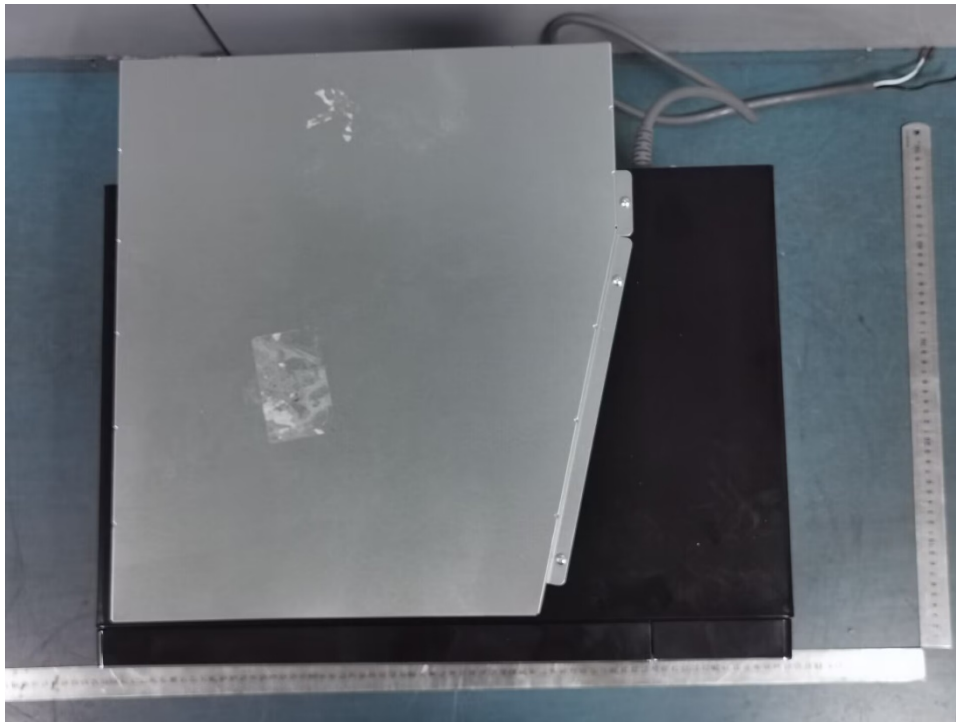




APPENDIX II: PHOTOGRAPHS OF PRODUCT PHOTO

External Photo

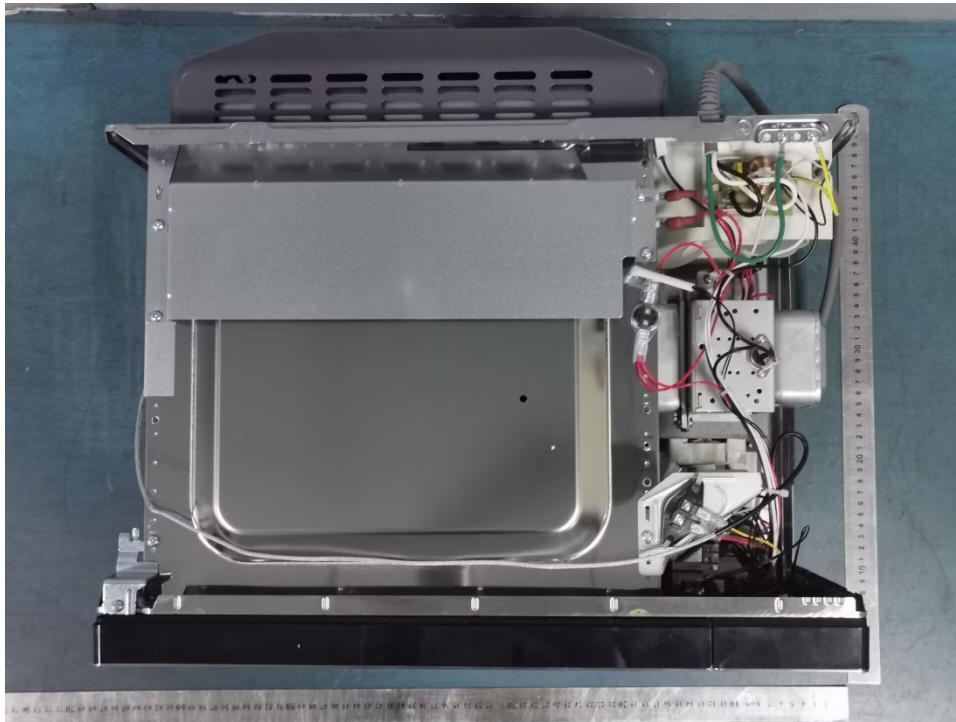


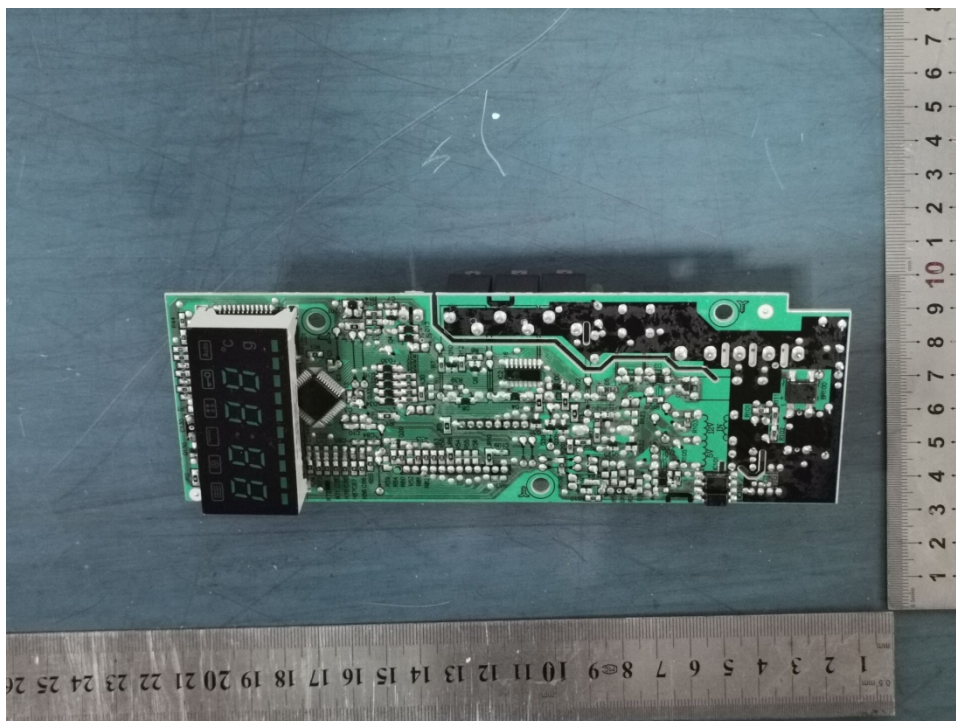
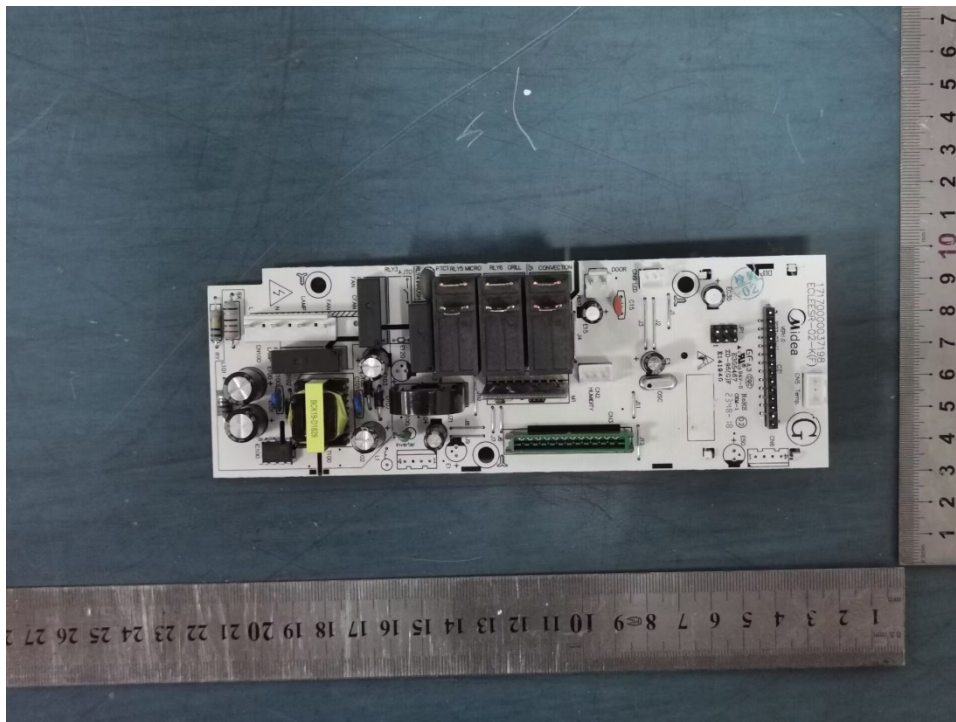


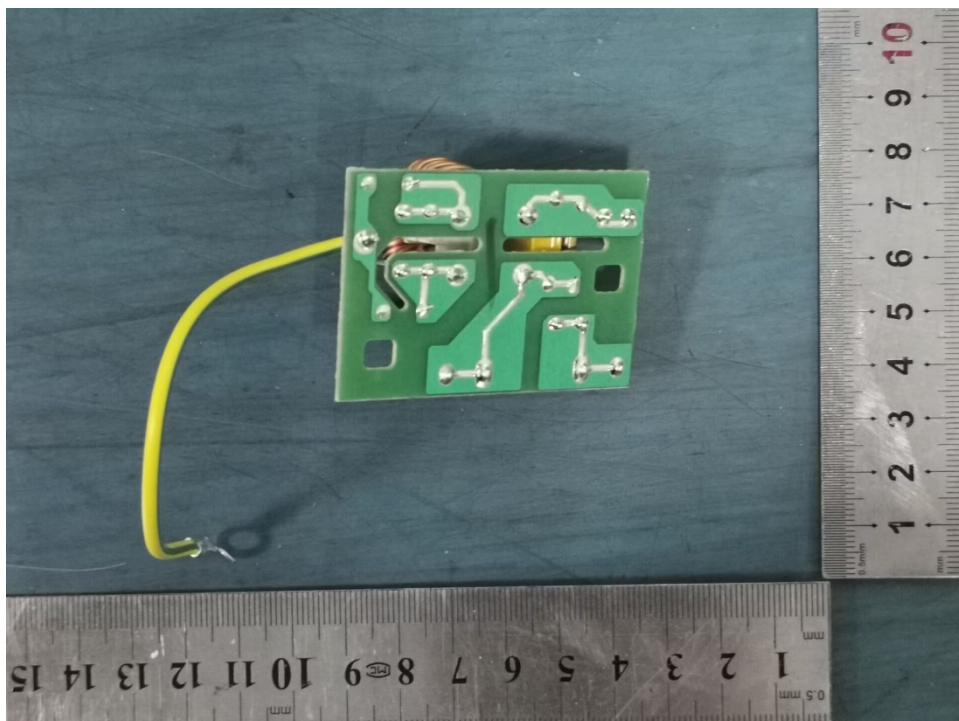
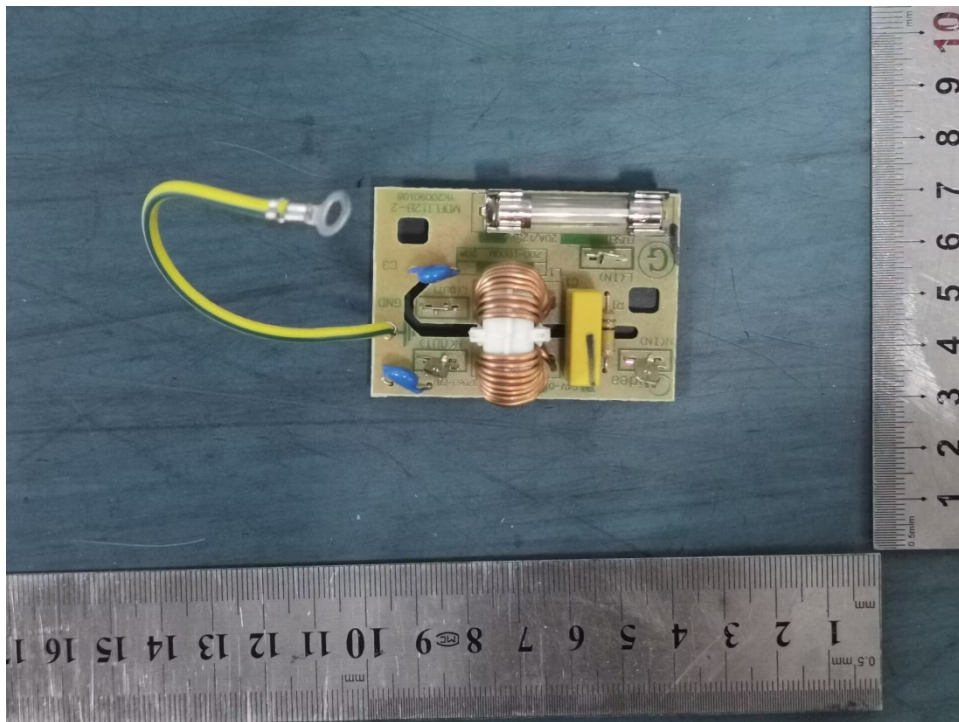




Internal Photo









*** End of Report ***