



FCC PART 18 TEST REPORT

Report No.: 20230717G07510X-E
Product Name: Microwave Oven
Trade Name: Midea
Model No. : EC9P04##-S00A0A, EC9P04***-S00A0A
FCC ID : VG8XC9P04YY
Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.
Received Date: 2023.07.04
Test Data: 2023.07.07-2023.07.10
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

Product Name.....: Microwave Oven

Model No.: EC9P04##-S00A0A, EC9P04***-S00A0A

Trade name: Midea

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: Ruihong Xie
Ruihong Xie Test Engineer 2023.07.13

Reviewed by: Chris You
Chris You Senior Engineer 2023.07.13

Approved by: Yang Fan
Yang Fan, Manager 2023.07.13

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Change History		
Issue	Date	Reason for change
1.0	2023.07.13	First edition



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

EUT Name	Microwave Oven
Trade Name.....	Midea
Model.....	EC9P04##-S00A0A, EC9P04***-S00A0A model designations as follows: E: Film type keypad; C=Mircowave+convection function; 9:indicates the microwave output power is 900W, “ P04: indicates the design No.; ## or ***: indicates different appearances, Y= 0-9 or A-Z, S: Indicates Stainless Steel Cavity; -00A0A: indicates other design No.; Model of EC9P042FY-S00A0A was selected for final testing.
Power Supply	120VAC/60Hz
Rated input Power(microwave):	1450W
Rated output Power(microwave):	900W
Rated input Power(grill):	1500W
Rated input Power(convection):	1500W
Frequency	2450MHz (Class B/Group 2)
Magnetron Model.....	2M519J
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);

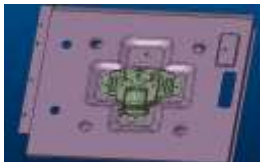
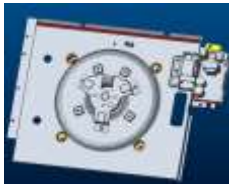
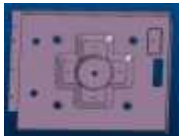
Setup2: Convection mode (According to FCC PART 15B, digital device);

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 report is based on the original report#: SET2021-13007 which was added Convection structure (as follow:)

Difference	This expansion model structure drawing	Certified model structure drawing	Details
0.Convection			The original DC motor is replaced by an AC motor
1.Motor			AC motor model YZ-64-10.5-33, CLASS H
2. Upper heat shield			Meet shade-pole motor installation structure
3. Motor cover plate			Meet shade-pole motor installation structure
4.Blade			Meet the AC convection system requirements
5. Power board	Delete		DC motor drive power board removed
6.Software	Software added Grill function	---	Software added Grill function

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 Sep.30, 2023.

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 Sep.30, 2023.

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	2022.11.29	2023.11.28
LISN	ROHDE&SCHWARZ	NSLK 8127	A21080367 0	2022.08.10	2023.08.09
Shield Room	Xinju Electronics	L9000*W4500* H3100	A18100323 0	2021.09.05	2024.09.04
EMI Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2023.03.16	2024.03.15
Broadband Ant.	ETC	MCTD2786	A15040224 0	2021.03.05	2024.03.04
3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2021.03.26	2024.03.25
EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A18050293 5	2022.08.01	2023.07.30
5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2021.06.08	2024.06.07
EMI Horn Ant.	ETC	1209	A15040224 1	2021.01.02	2024.01.01
Spectrum Analyzer	ROHDE&SCHWARZ	ESW26	A18050293 5	2022.08.02	2023.08.01



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	2435.5-2459.8
Line Voltage	2439.7-2464.6

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

There was no microwave leakage exceeding a power level of 0.36 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.

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	280	20.3	9.9	30.8	120	753.55

Formula:

$$P = \frac{4.2 \times m_w(T_2 - T_1) + 0.9 \times m_c(T_2 - T_0)}{t}$$

P is the microwave power output, in watts

M_w is the mass of the water, in grams

M_c is the mass of the container, in grams

T₀ is the ambient temperature, in degrees Celsius

T₁ is Initial temperature of the water, in degrees Celsius

T₂ is final temperature of the water, in degrees Celsius

T is heating time, in seconds, excluding the magnetron filament heating-up time

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

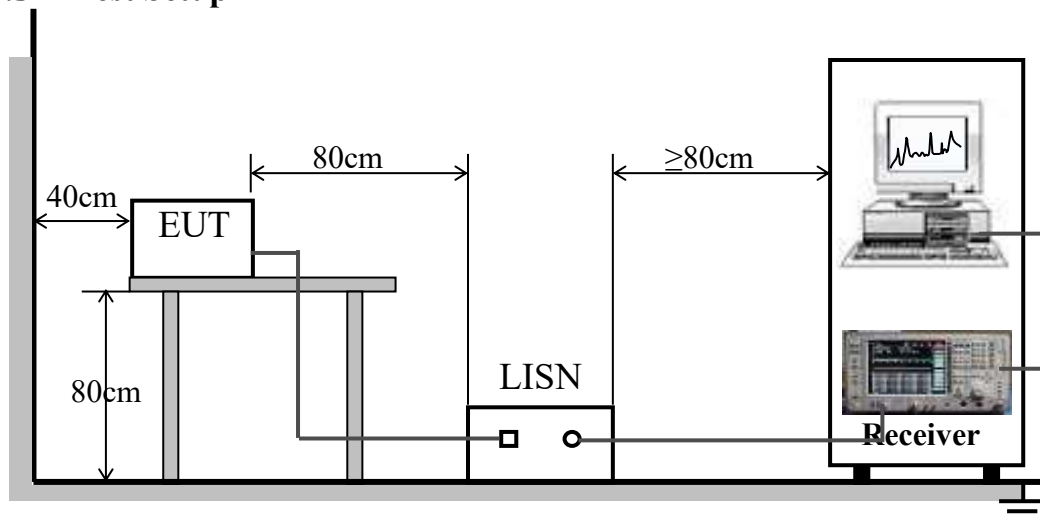
Note:

- 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.

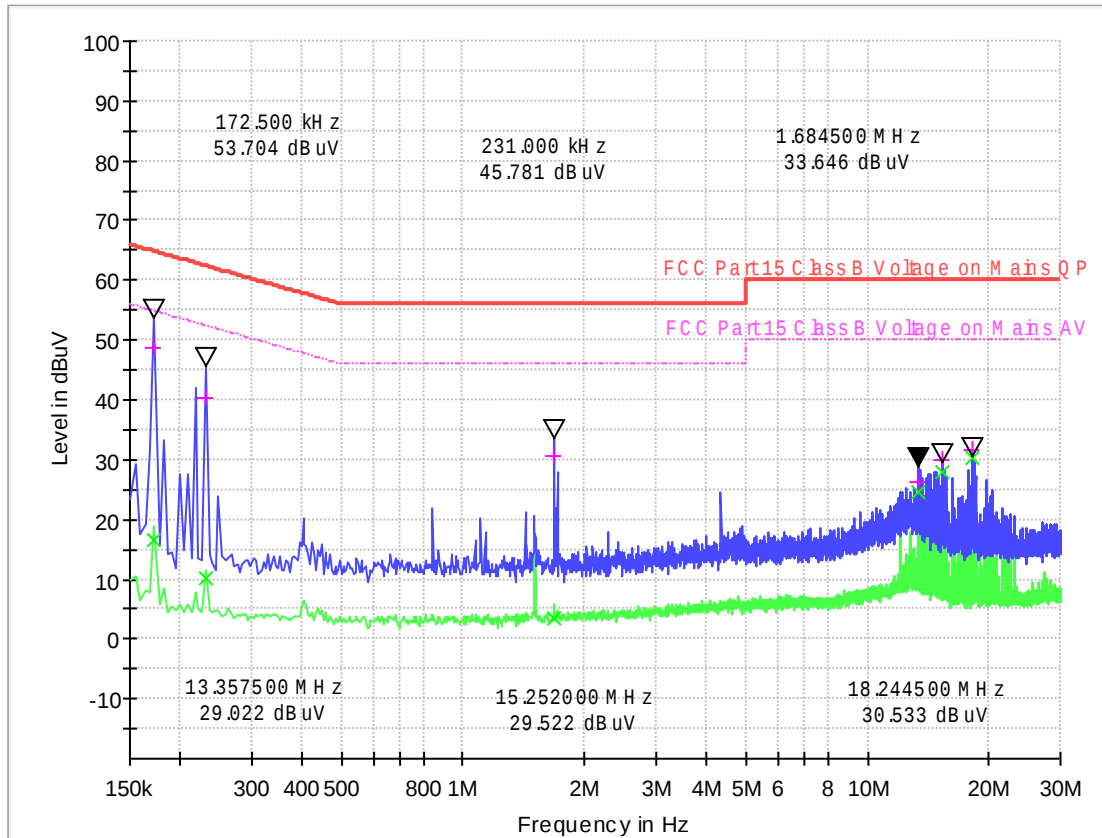
4.1.3 Test Setup





A. Test Result:

Mains terminal disturbance voltage, Setup1,L phase

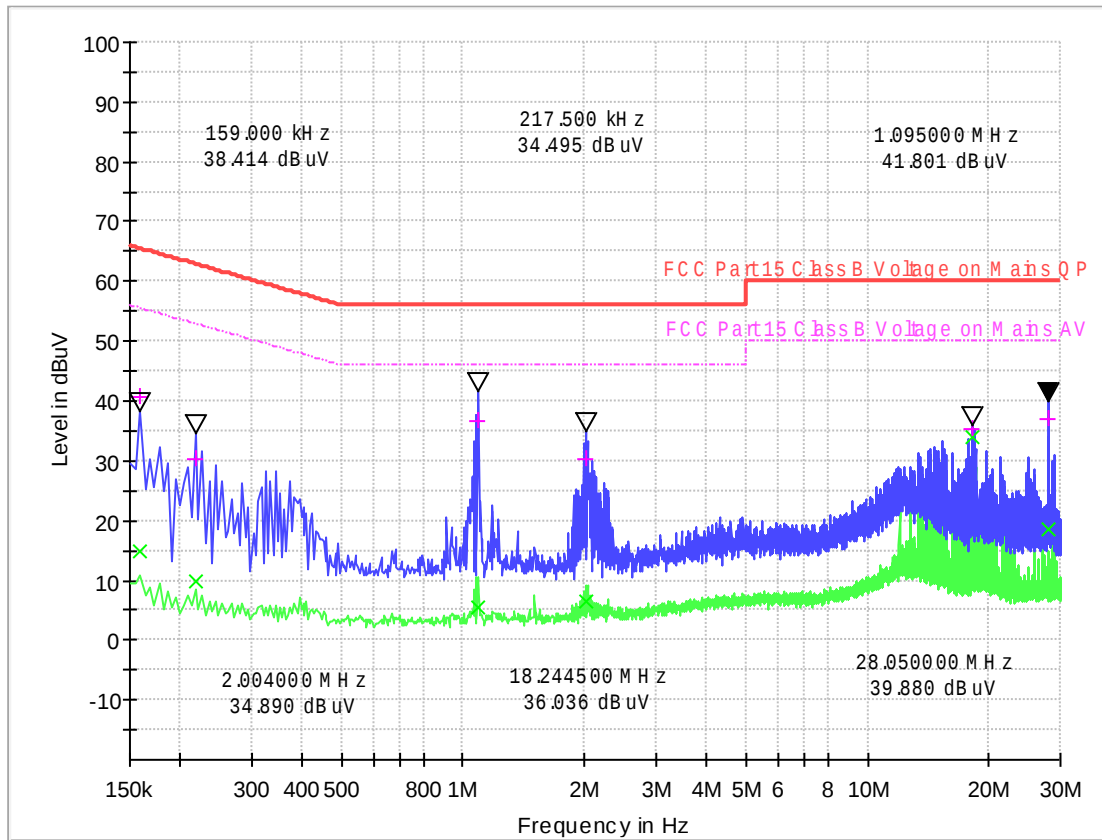


(Plot A: L Phase)

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)	Cable Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.172500	48.79	16.56	0.1	10.3	16.05	64.8	38.28	54.8
0.231000	40.45	10.22	0.1	10.3	21.96	62.4	42.19	52.4
1.684500	30.46	3.46	0.2	10.2	25.54	56.0	42.54	46.0
13.357500	26.42	24.45	0.5	11.0	33.58	60.0	25.55	50.0
15.252000	29.85	28.04	0.5	11.2	30.15	60.0	21.96	50.0
18.244500	31.52	30.40	0.5	11.2	28.48	60.0	19.60	50.0



Mains terminal disturbance voltage, Setup 1, N phase

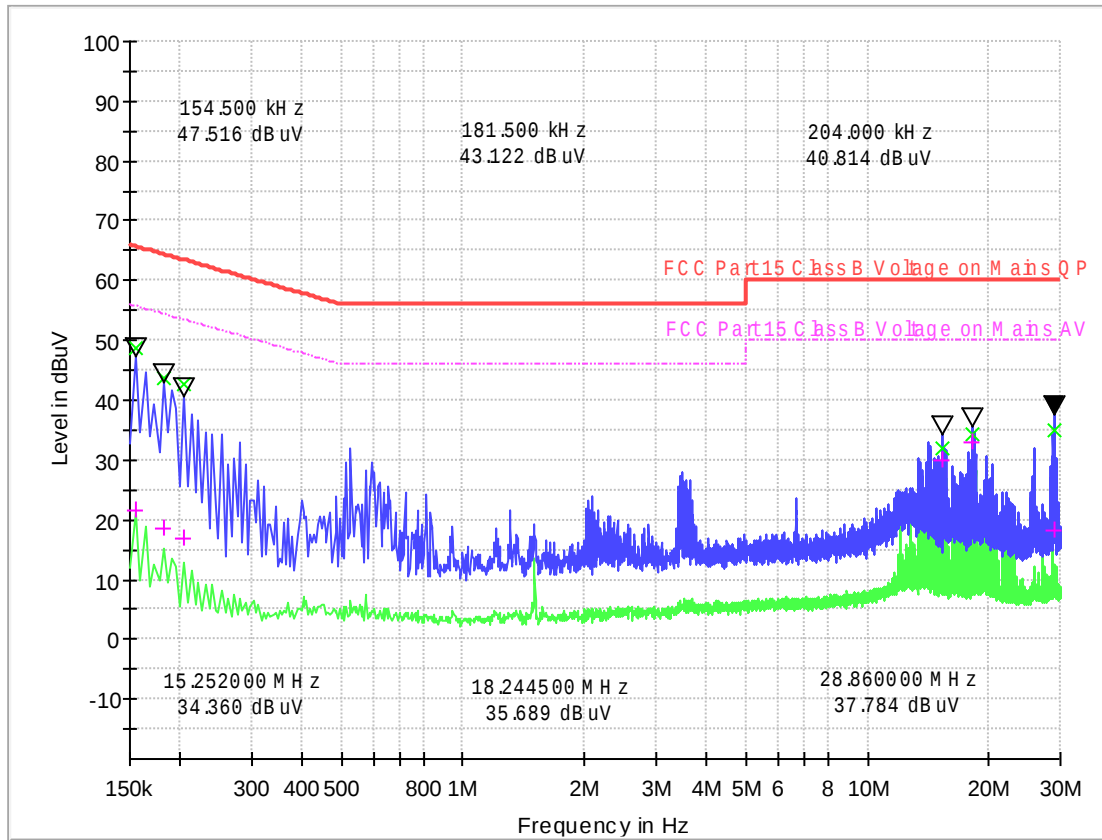


(Plot B: N Phase)

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)	Cable Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.159000	40.63	14.85	0.1	10.3	24.89	65.5	40.67	55.5
0.217500	30.26	9.77	0.1	10.3	32.65	62.9	43.14	52.9
1.095000	36.53	5.36	0.2	10.2	19.47	56.0	40.64	46.0
2.004000	30.17	6.55	0.2	10.2	25.83	56.0	39.45	46.0
18.244500	35.16	34.00	0.5	11.1	24.84	60.0	16.00	50.0
28.050000	37.08	18.68	0.5	11.9	22.92	60.0	31.32	50.0



Mains terminal disturbance voltage, Setup2,L phase

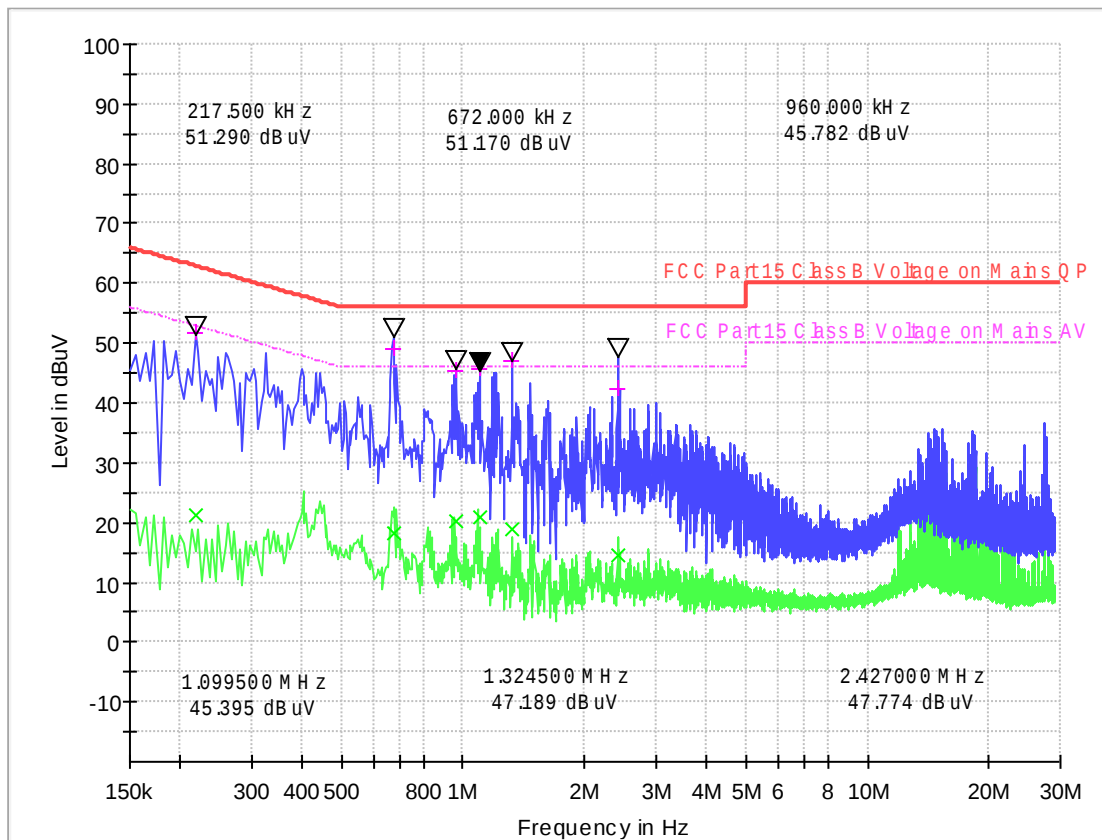


(Plot C: L Phase)

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)	Cable Loss	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.154500	48.65	21.47	0.1	10.3	17.10	65.8	34.28	55.8
0.181500	43.55	18.48	0.1	10.3	20.87	64.4	35.94	54.4
0.204000	42.62	16.71	0.1	10.3	20.83	63.4	36.74	53.4
15.252000	32.12	29.95	0.5	11.2	27.88	60.0	20.05	50.0
18.244500	34.16	32.93	0.5	11.2	25.84	60.0	17.07	50.0
28.860000	34.81	18.35	0.5	11.9	25.19	60.0	31.65	50.0



Mains terminal disturbance voltage, Setup 2, N phase



(Plot D: N Phase)

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)	Cable Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.217500	51.87	21.35	0.1	10.3	11.04	62.9	31.56	52.9
0.672000	49.20	18.05	0.1	10.2	6.80	56.0	27.95	46.0
0.960000	45.52	20.27	0.2	10.2	10.48	56.0	25.73	46.0
1.099500	45.63	20.82	0.2	10.2	10.37	56.0	25.18	46.0
1.324500	47.16	18.91	0.5	10.2	8.84	56.0	27.09	46.0
2.427000	42.44	14.66	0.5	10.2	13.56	56.0	31.34	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:

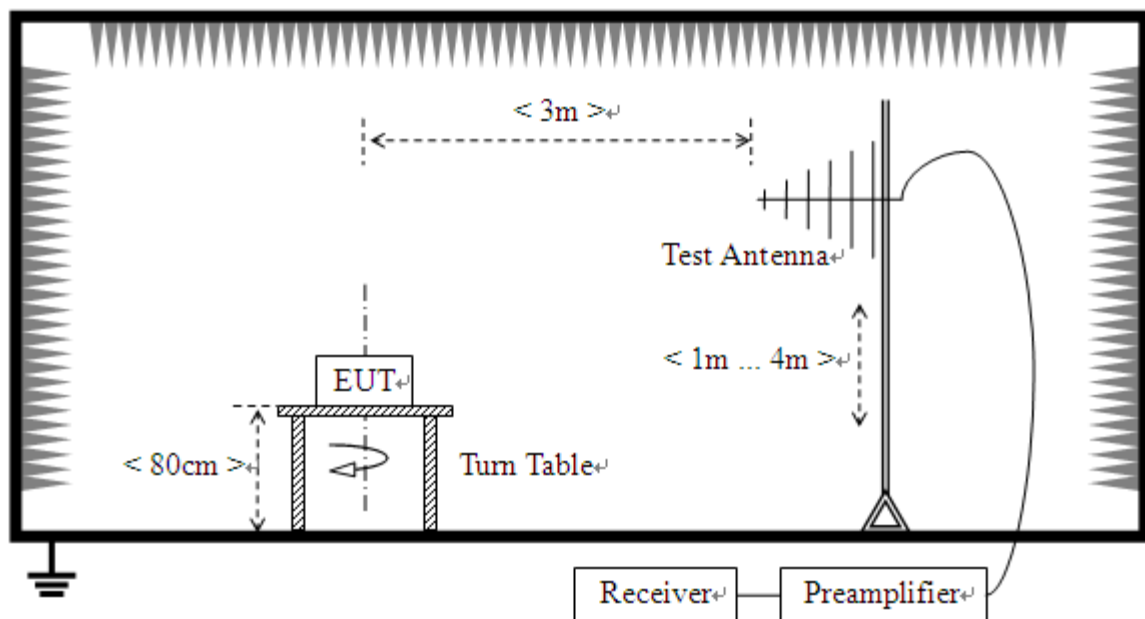
RF Power generated by equipment(watts)	Field strength limit(uV/m) @300m
Below 500	25
500 or more	$25 \cdot \sqrt{\text{power}/500}$

Power = 753.55W

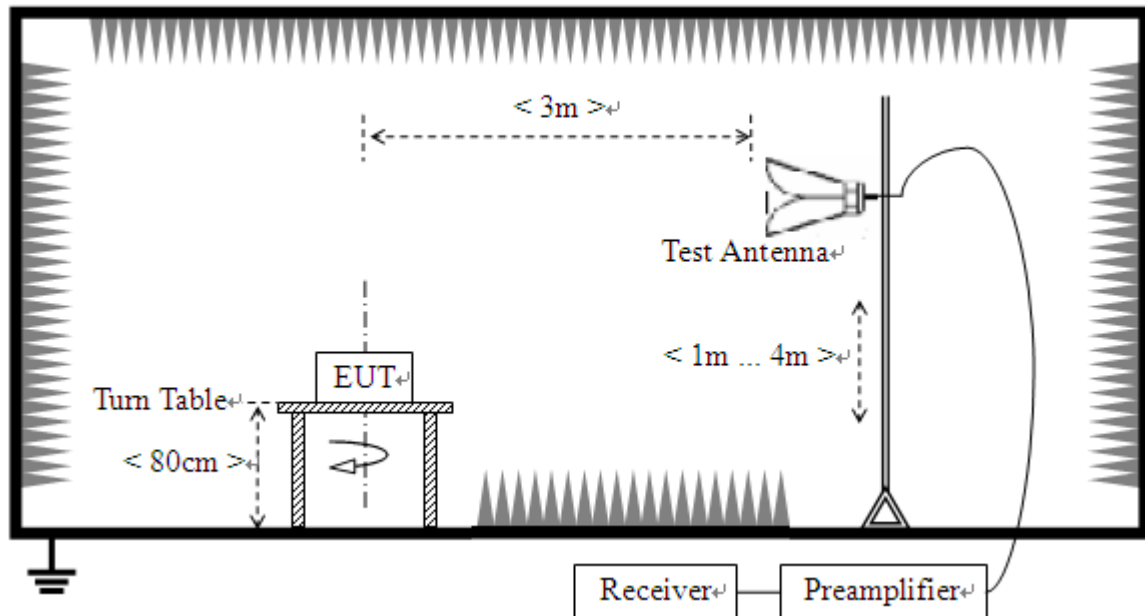
Limit = $20 \lg(25 \cdot \sqrt{\text{power}/500}) + 20 \lg(300/3)$ @ 3m distance.

5.1.2 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



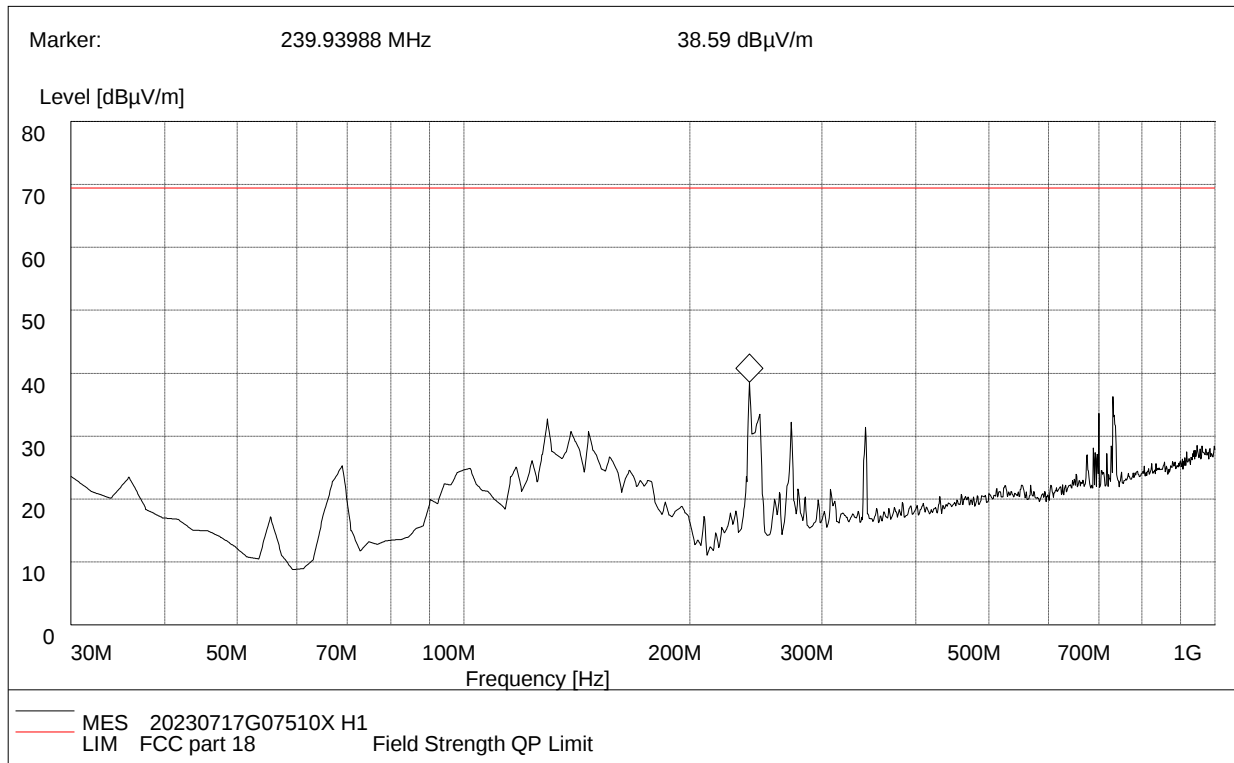
5.1.3 Test Procedure

- 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

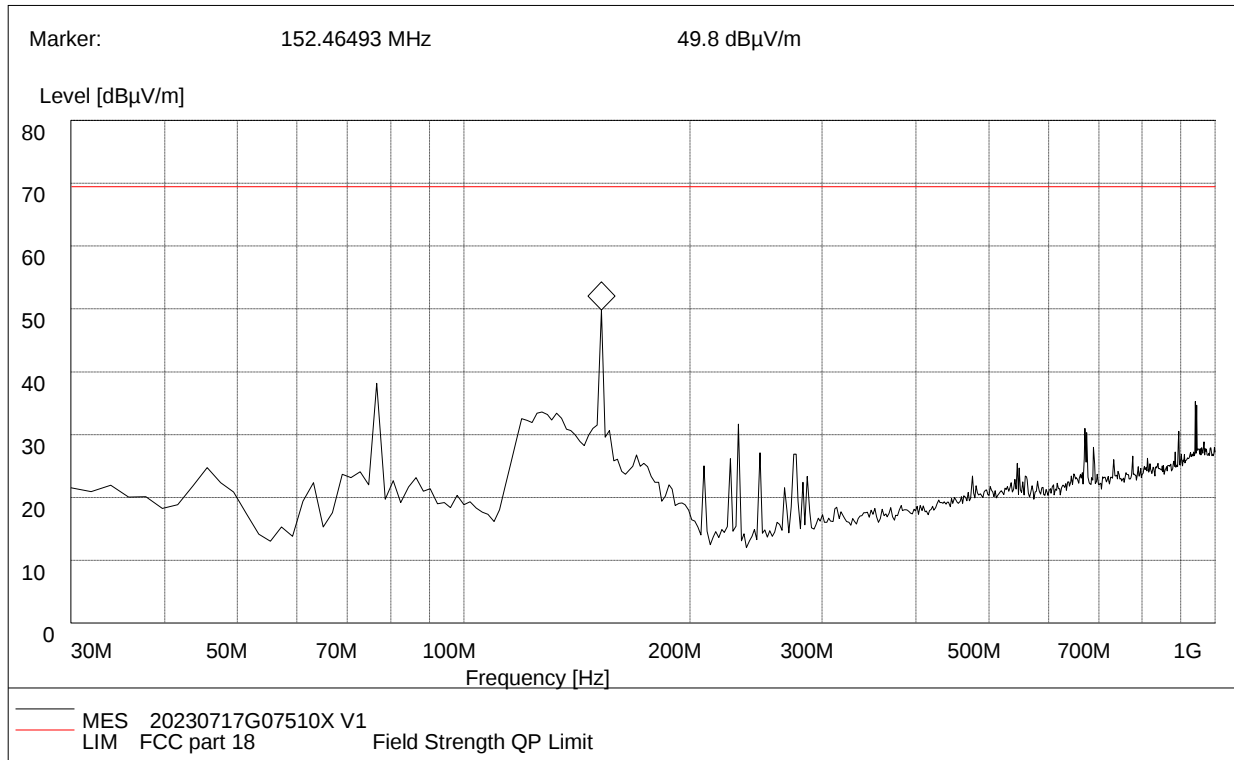


(Plot A: Test Antenna Horizontal 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.00	22.60	120.000	100.0	69.74	47.14	Horizontal	Pass
68.87	24.30	120.000	100.0	69.74	45.44	Horizontal	Pass
101.92	23.85	120.000	100.0	69.74	45.89	Horizontal	Pass
129.13	31.73	120.000	100.0	69.74	38.01	Horizontal	Pass
239.93	37.59	120.000	100.0	69.74	32.15	Horizontal	Pass
731.74	35.27	120.000	100.0	69.74	34.47	Horizontal	Pass



Radiation disturbances, antenna polarization:Setup1,Vertical

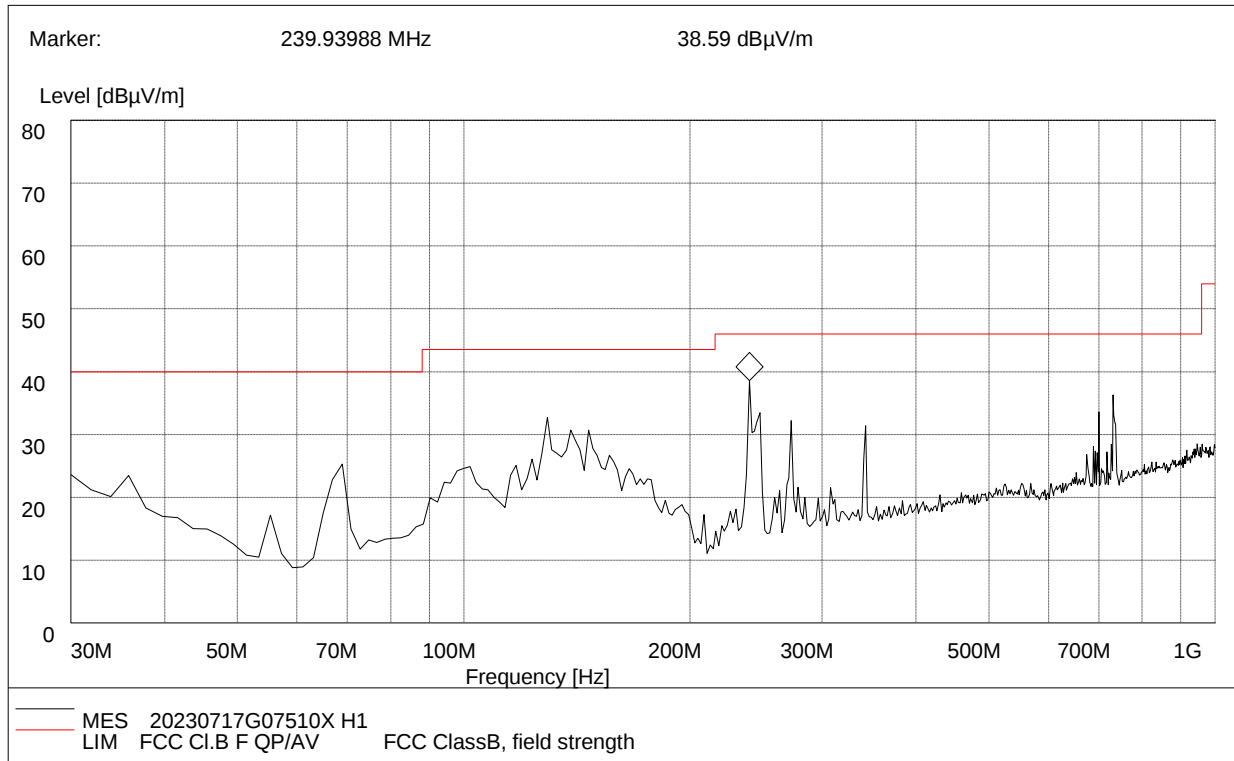


(Plot B: Test Antenna Vertical 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Vertical
45.55	23.75	120.000	100.0	69.74	45.99	Vertical	Pass
76.65	37.14	120.000	100.0	69.74	32.60	Vertical	Pass
127.19	32.57	120.000	100.0	69.74	37.17	Vertical	Pass
152.46	48.80	120.000	100.0	69.74	20.94	Vertical	Pass
232.16	30.62	120.000	100.0	69.74	39.12	Vertical	Pass
274.92	25.86	120.000	100.0	69.74	43.88	Vertical	Pass



Radiation disturbances, antenna polarization: Setup2, Horizontal

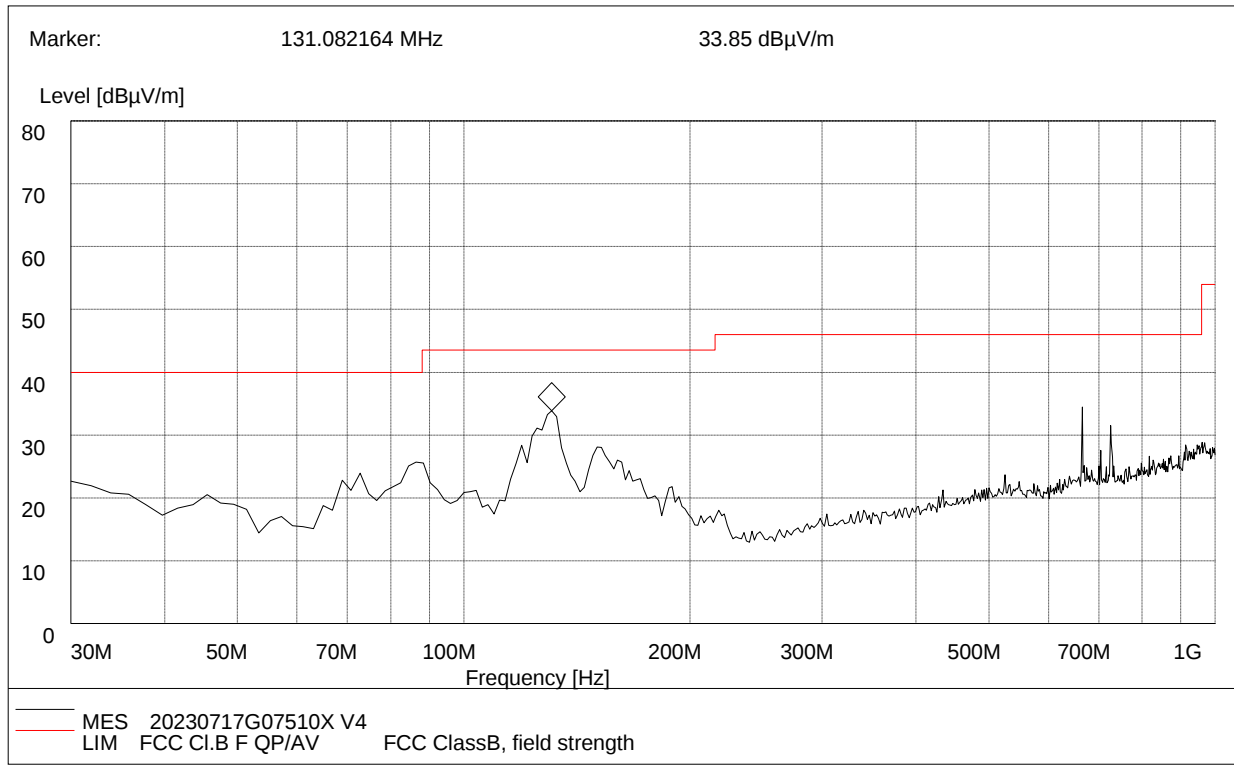


(Plot C: Test Antenna Horizontal 30M - 1G)

Frequency (MHz)	Quasi Peak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.00	22.60	120.000	100.0	40.00	17.40	Horizontal	Pass
68.87	24.30	120.000	100.0	40.00	15.70	Horizontal	Pass
129.13	31.73	120.000	100.0	43.50	11.77	Horizontal	Pass
146.63	29.71	120.000	100.0	43.50	13.79	Horizontal	Pass
239.93	37.59	120.000	100.0	46.00	8.41	Horizontal	Pass
731.74	35.27	120.000	100.0	46.00	10.73	Horizontal	Pass



Radiation disturbances, antenna polarization:Setup2,Vertical



(Plot D: 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	Vertical
30.12	21.68	120.000	100.0	40.00	18.32	Vertical	Pass
86.37	24.72	120.000	100.0	40.00	15.28	Vertical	Pass
131.08	32.85	120.000	100.0	43.50	10.65	Vertical	Pass
150.52	27.06	120.000	100.0	43.50	16.44	Vertical	Pass
665.65	33.47	120.000	100.0	46.00	12.53	Vertical	Pass
725.91	30.54	120.000	100.0	46.00	15.46	Vertical	Pass

**Above 1GHz, Setup1**

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1459.11	42.80	-14.27	69.74	26.94	100	182	Horizontal
2	1620.66	48.01	-13.55	69.74	21.73	100	19	Horizontal
3	1888.47	55.23	-12.36	69.74	14.51	100	142	Horizontal
4	2530.38	53.78	-10.65	69.74	15.96	100	58	Horizontal
5	8222.56	55.68	3.59	69.74	14.06	100	26	Horizontal
6	10662.67	61.01	5.38	69.74	8.73	100	34	Horizontal

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1454.86	51.24	-14.27	69.74	18.50	100	26	Vertical
2	1624.91	47.57	-13.54	69.74	22.17	100	163	Vertical
3	2764.19	55.60	-9.53	69.74	14.14	100	341	Vertical
4	3248.81	53.26	-8.07	69.74	16.48	100	314	Vertical
5	8120.53	59.12	3.53	69.74	10.62	100	130	Vertical
6	11372.59	57.27	5.11	69.74	12.47	100	27	Vertical

Above 1GHz, Setup2 (See Remark 3)

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

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



REMARKS:

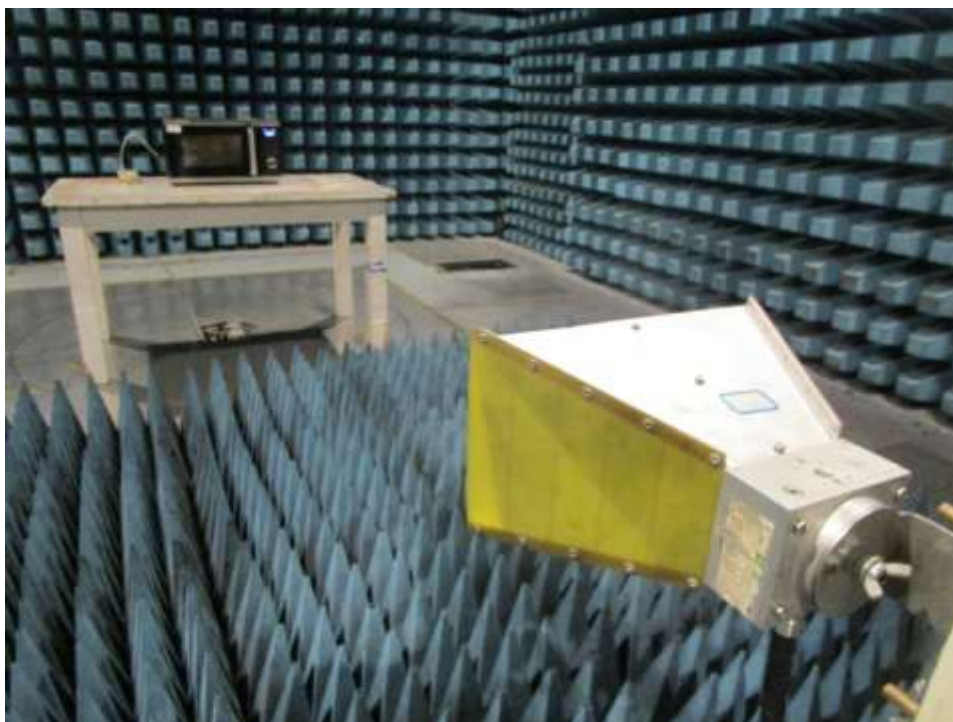
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. For Set up 2 mode, The EUT's internal highest frequency is less than 108MHz, so test frequency range is up to 1000MHz. Other frequency 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



APPENDIX II: PHOTOGRAPHS OF PRODUCT PHOTO

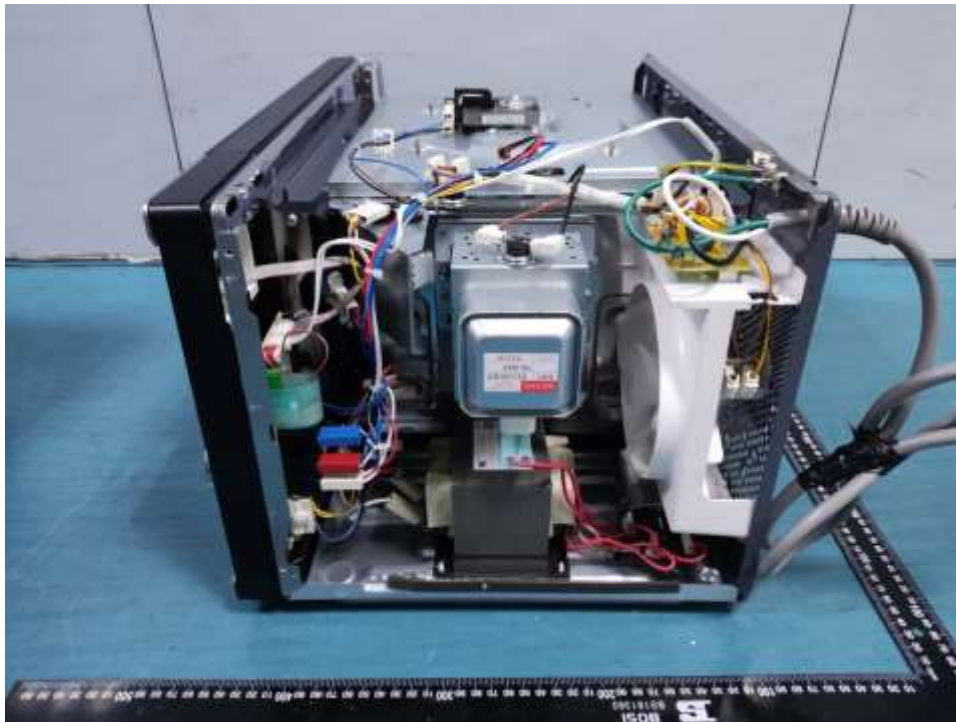
External Photo

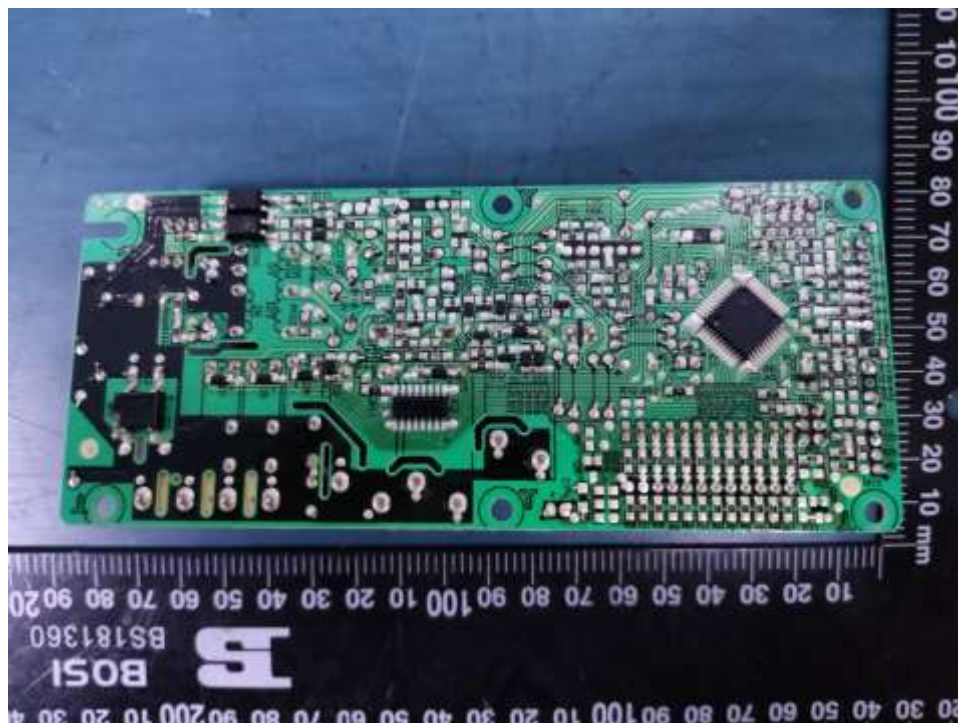
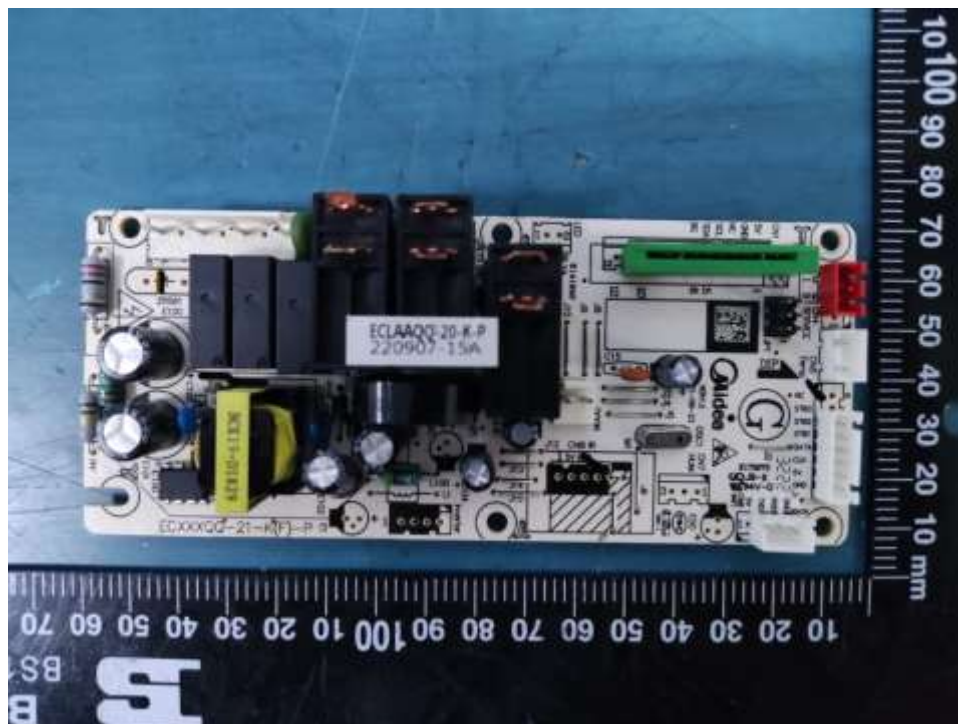


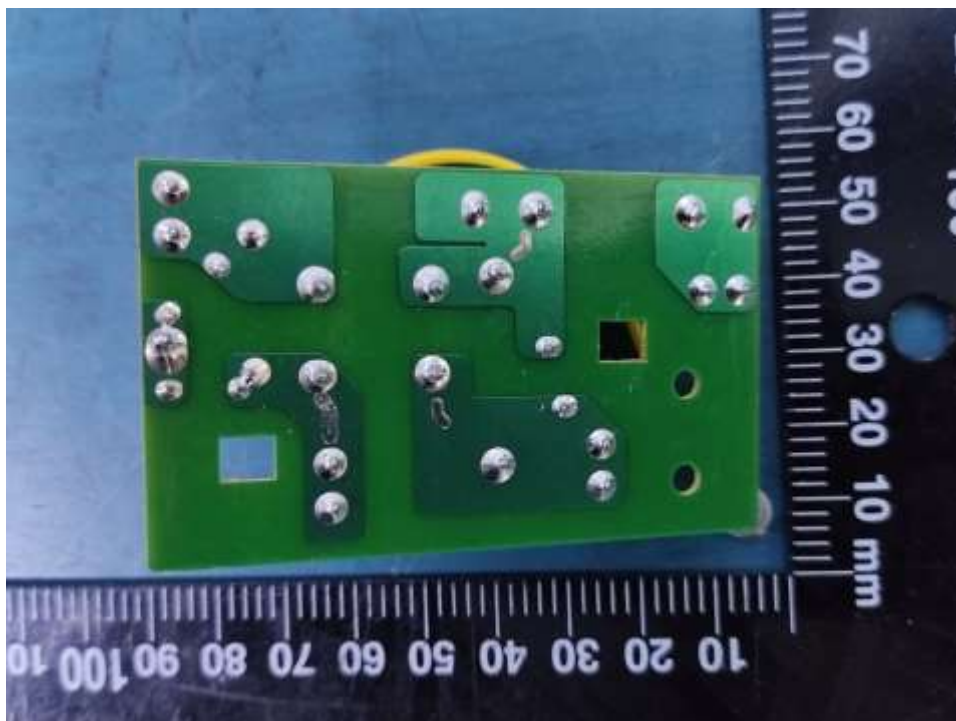
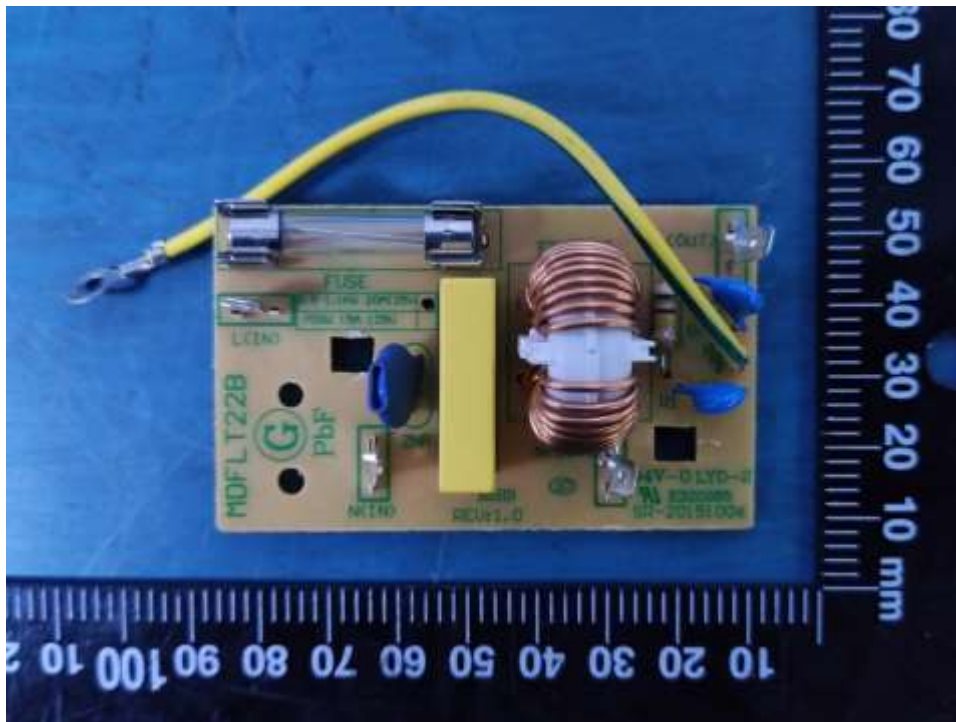


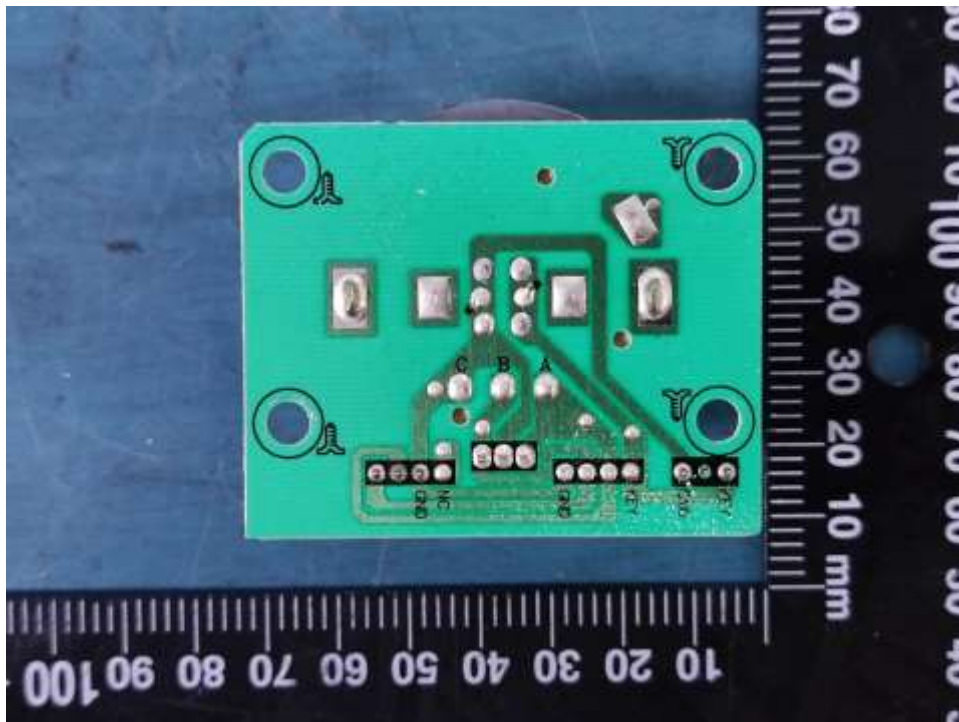


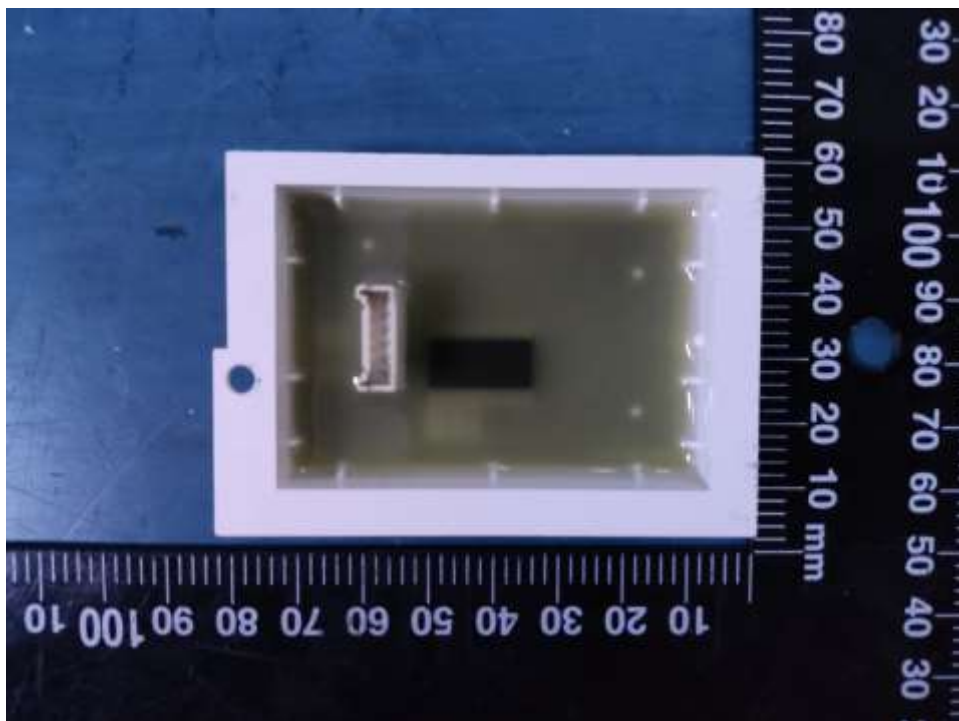
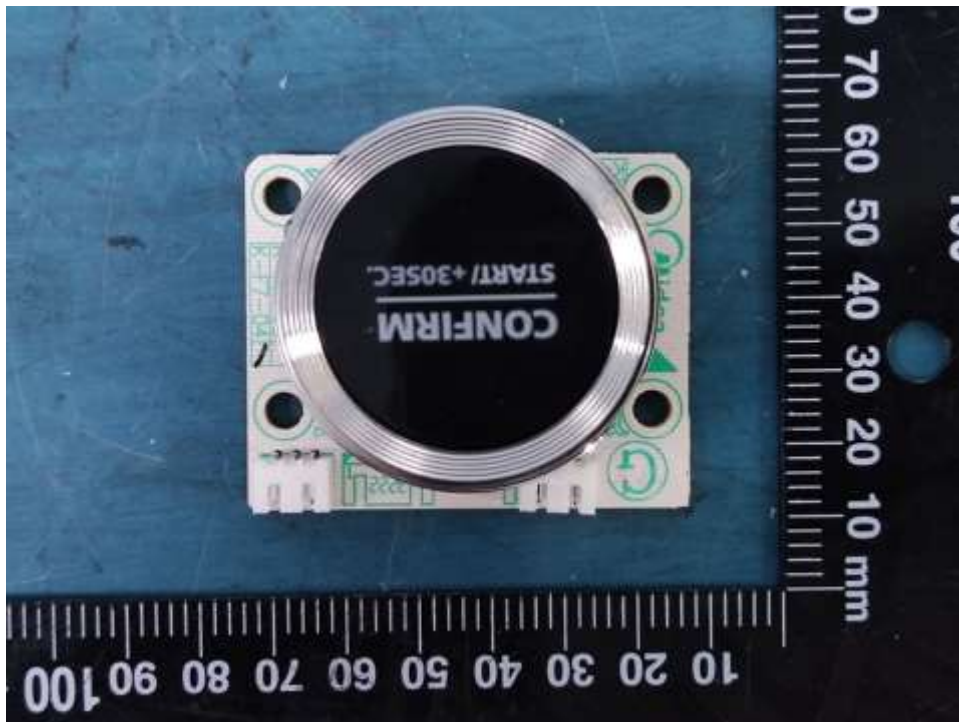
Internal Photo













*** End of Report ***