



# EMC TEST REPORT

**Report No.:** SET2021-04939

**Product Name:** Microwave Oven

**Trade Name:** Midea, TOSHIBA

**Model No. :** XM245AYY-PV, XM245AYYY-PV, EM245A5C-BS, EM245A5C-SS, EM245A5C-CHSS, EM245A5C-CHBS, EM245A5C-CHSSC, EM245A5C-SSC, EM245A5C-CHBSC, EM245A5C-BSC, ML-EM45PIT(BS), ML-EM45PIT(SS)

**FCC ID :** VG8XM245AYY-PV5

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

**Received Date:** 2021.04.20

**Tested Date:** 2021.04.20-2021.06.25

**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.** ..... XM245A5C-SS, XM245A5C-CHSS, EM245A5C-BS,  
EM245A5C-SS, EM245A5C-CHSS, EM245A5C-CHBS,  
EM245A5C-CHSSC, EM245A5C-SSC, EM245A5C-CHBSC,  
EM245A5C-BSC, ML-EM45PIT(BS), ML-EM45PIT(SS)

**Trade name**..... Midea, TOSHIBA

**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

**Test Result**..... PASS

**Tested by** ..... Zhang Pei Sen 2021.06.28  
Pei Sen Zhang Test Engineer

**Reviewed by**..... Chris You 2021.06.28  
Chris You Senior Engineer

**Approved by**..... Shuangwen Zhang 2021.06.28  
Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2021.06.28	First edition



## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

EUT Name.....:	Microwave Oven
Trade Name.....:	Midea, TOSHIBA
Brand Name.....:	N/A
Serial model No.....:	XM245A5C-PV, XM245A5C-PV, EM245A5C-BS, EM245A5C-SS, EM245A5C-CHSS, EM245A5C-CHBS, EM245A5C-CHSSC, EM245A5C-SSC, EM245A5C-CHBSC, EM245A5C-BSC, ML-EM45PIT(BS), ML-EM45PIT(SS)
Hardware Version.....:	N/A
Software Version.....:	N/A
Model Numbers.....:	XM245A5C-PV, XM245A5C-PV, EM245A5C-BS, EM245A5C-SS, EM245A5C-CHSS, EM245A5C-CHBS, EM245A5C-CHSSC, EM245A5C-SSC, EM245A5C-CHBSC, EM245A5C-BSC, ML-EM45PIT(BS), ML-EM45PIT(SS) model designations as follow: X =E or A, Indicates Controller Type ; M: indicates microwave function; 245: "2" indicates the microwave output power is 1250W, "45" indicates cavity capacity is 45 liters; A: indicates the design No.; YY or YYY: "Y" = 0-9, A-Z or blank, indicates different appearance; Models of EM245A5C-BS, EM245A5C-SS, EM245A5C-CHSS, EM245A5C-CHBS, EM245A5C-CHSSC, EM245A5C-SSC, EM245A5C-CHBSC, EM245A5C-BSC, ML-EM45PIT(BS), ML-EM45PIT(SS) are identical to EM245A2EC-PV except for model number and trade mark. Model of EM245A2XC-PV was severally selected for all testing.
Power Supply .....	120V AC/60Hz
Rated input Power(microwave):	1350W
Rated output Power(microwave):	1250W
Frequency.....:	2450MHz(ClassB/Group 2)
Magnetron Model.....:	2M303H
Magnetron Manufacturer ....:	TOSHIBA
Description of Support Units:	-Load for power output measurement: 1250 milliliters of water in the beaker located in the center of the oven.

-Load for frequency measurement: 1250 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 875 and the other of 375 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: 875 milliliters of water, with the beaker located in the center of the oven.

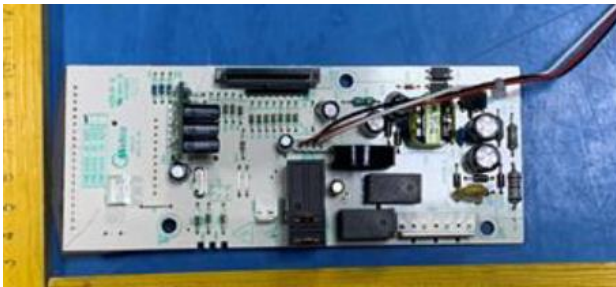
*Note 1:* The EUT have the following typical setups during the test:

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

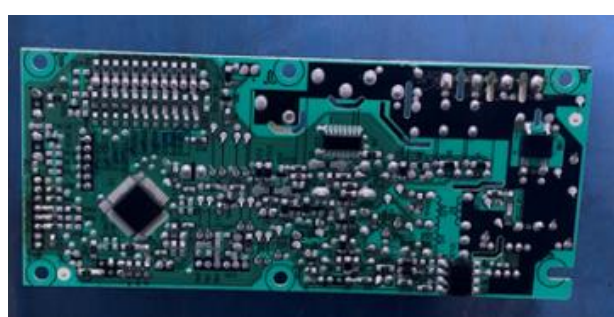
*Note 2:* For more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

*Note 3:* This is an updating mother board (see below) report based on the original report#: "SET2021-01942" and re-tested on 2021.04.20-2021.06.25.

The original



New



The new motherboard is the same input and output to the original except for PCB layout and some components differences.



## 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 18:2017	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



### 1.3 Facilities and Accreditations

#### 1.3.1 Facilities

**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 April 19th, 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 April 19th, 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.

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

#### 1.3.2 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 = 2.6 dB (k=2)
Uncertainty of Radiated Emission: (30MHz~1GHz)	Uc = 3.91 dB (k=2)
Uncertainty of Radiated Emission: (1~18GHz)	Uc = 4.5 dB (k=2)





## EQUIPMENTS LIST

### A. Use of Software Checklist

Software	Version number	Manufacturer	Use the project
ES-K1	V1.73	ROHDE&SCHWARZ	Radiated Emissions below 1GHz
TS+	JS32-RE 2.5.2.0	Tonsceng	Radiated Emissions above 1GHz
EMC32	Version 10.35.10	ROHDE&SCHWARZ	Conducted Emission

### B. Equipments List:

Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due. Date
Test Receiver	KEYSIGHT	N9038A	A141202036	2020.11.21	2021.09.20
LISN	ROHDE&SCHWARZ	ENV216	A140701846	2020.09.15	2021.09.21
Shield Room	Xinju Electronics	L7300*W4500* H3100	A181003226	2018.09.06	2021.09.05
EMI Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2021.06.23	2022.05.23
Broadband Ant.	2786	ETC	A150402239	2018.09.17	2021.09.16
3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2020.09.22	2021.08.12
System Simulator	ROHDE&SCHWARZ	CMW500	A150802214	2019.07.30	2021.07.29
5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
EMI Horn Ant.	ROHDE&SCHWARZ	HF906	A0304225	2019.04.17	2022.04.17
Spectrum Analyzer	ROHDE&SCHWARZ	ESW26	A180502935	2020.08.27	2021.08.11



## 2. EMC EMISSION TEST

### 2.1 Test Procedure

Test Requirement: 47 CFR PART 18

Test Method: FCC/OST MP-5:1986

Power Supply: 120V AC/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

#### 2.1.1 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.

#### 2.1.2 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.



### 2.1.3 Measurement data

Operating Mode	Frequency(MHz)
Normal Voltage	2243.5-2465.9
Line Voltage	2244.2-2466.2

## 2.2 RADIATION HAZARD TEST

### 2.2.1 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 A1000mL 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.

### 2.2.2 Limit

A maximum of 1.0mW/cm<sup>2</sup> is allowed in according with the applicable FCC standards

### 2.2.3 Test results

There was no microwave leakage exceeding a power level of 0.25mW/cm<sup>2</sup> Observed at any point 5cm or more from the external surface of the oven



## 2.3 RF OUTPUT POWER MEASUREMENT

### 2.3.1 Test Standard

Test Requirement	47 CFR PART 18
Test Method	FCC/OST MP-5:1986
Power Supply	120VAC/60Hz

### 2.3.2 EUT Operating mode

Test the EUT in microwave mode with full power.

### 2.3.3 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)
1250	280	22.0	12	34.5	120	1010.625

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<sub>w</sub> is the mass of the water, in grams

M<sub>c</sub> is the mass of the container, in grams

T<sub>0</sub> is the ambient temperature, in degrees Celsius

T<sub>1</sub> is Initial temperature of the water, in degrees Celsius

T<sub>2</sub> is final temperature of the water, in degrees Celsius

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

### 3. CONDUCTED EMISSION

#### 3.1.1 Conducted Emission Limit

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

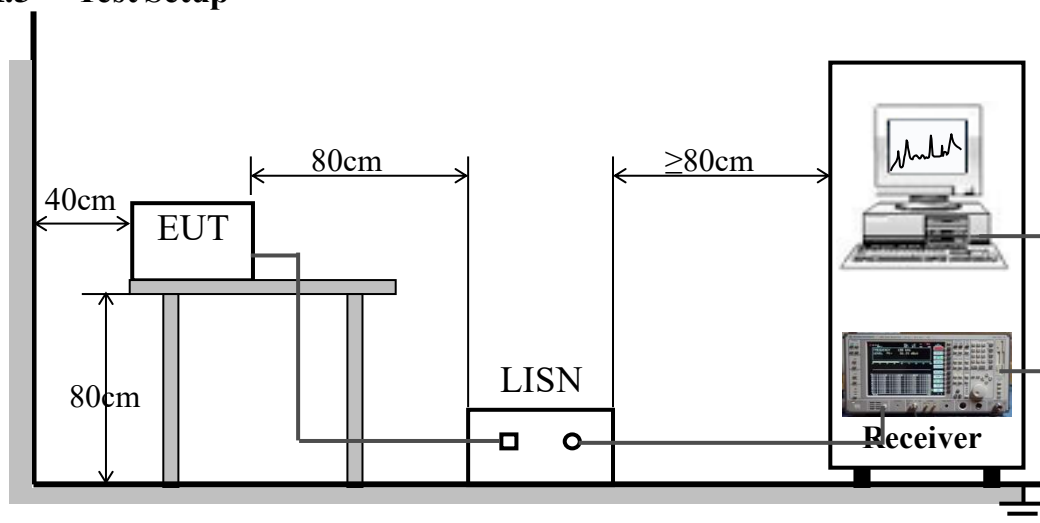
**Note:**

- 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.

#### 3.1.2 Test Procedure

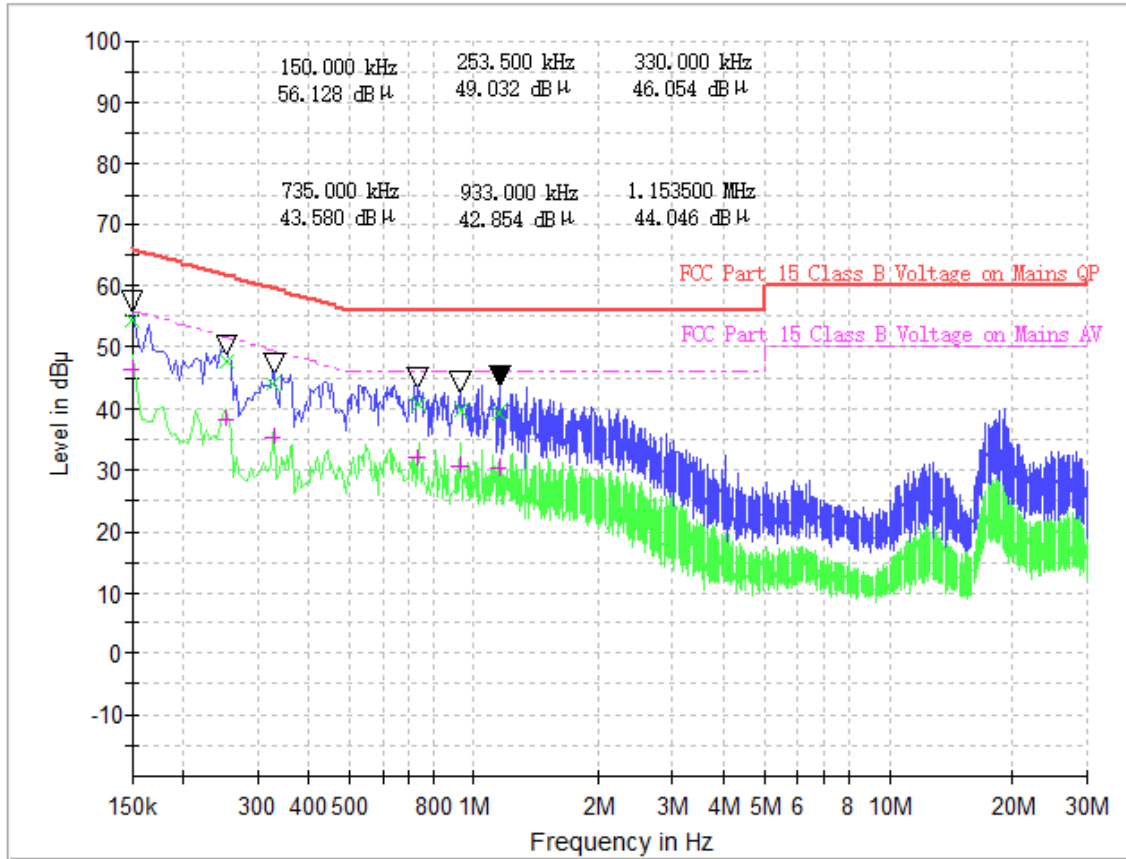
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50 $\Omega$ /50 $\mu$ H of coupling impedance for the measuring instrument. The 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.

#### 3.1.3 Test Setup



**A. Test Result: Filter board 01:**

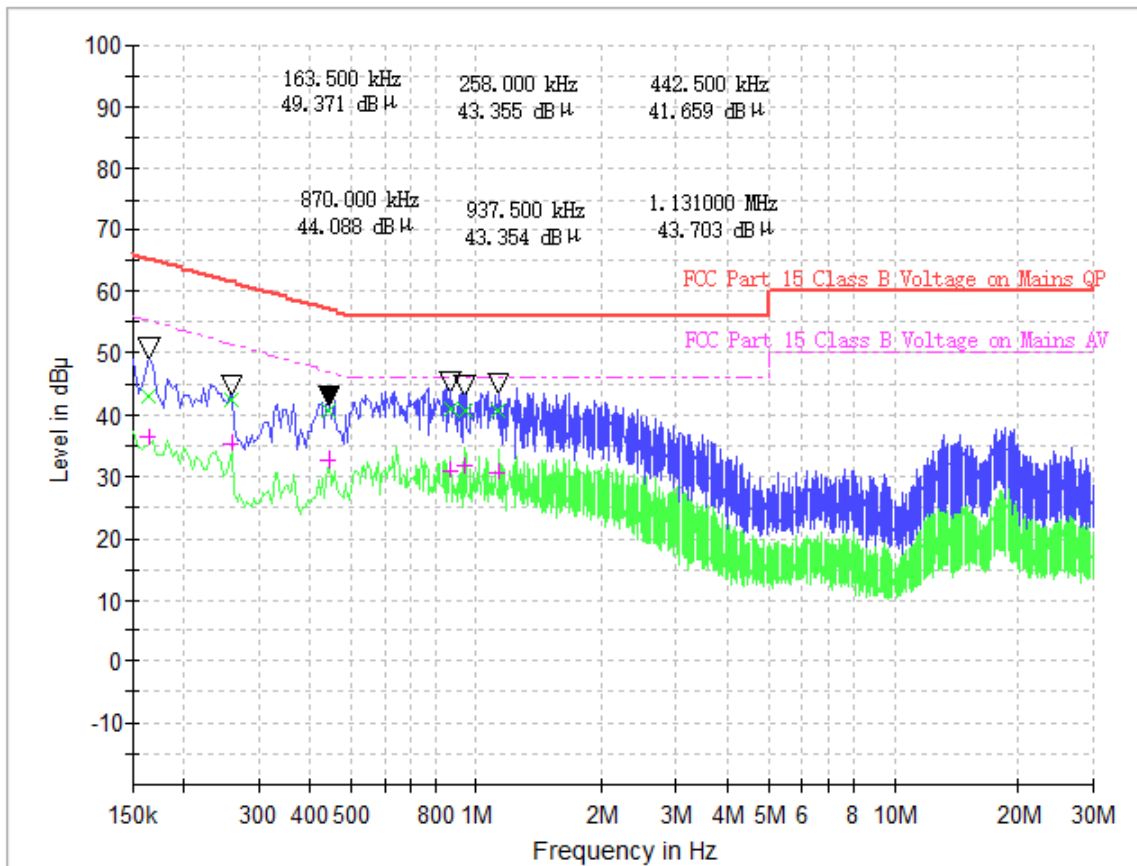
Main terminal disturbance voltage, Setup1, L phase



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.150000	66.0	54.54	11.46	0.150000	56.0	46.28	9.72
0.253500	61.6	47.75	13.90	0.253500	51.6	38.47	13.17
0.330000	59.5	43.99	15.46	0.330000	49.5	35.32	14.13
0.735000	56.0	40.59	15.41	0.735000	46.0	32.10	13.90
0.933000	56.0	39.78	16.22	0.933000	46.0	30.50	15.50
1.153500	56.0	39.37	16.63	1.153500	46.0	30.36	15.64

Main terminal disturbance voltage, Setup 1, N phase



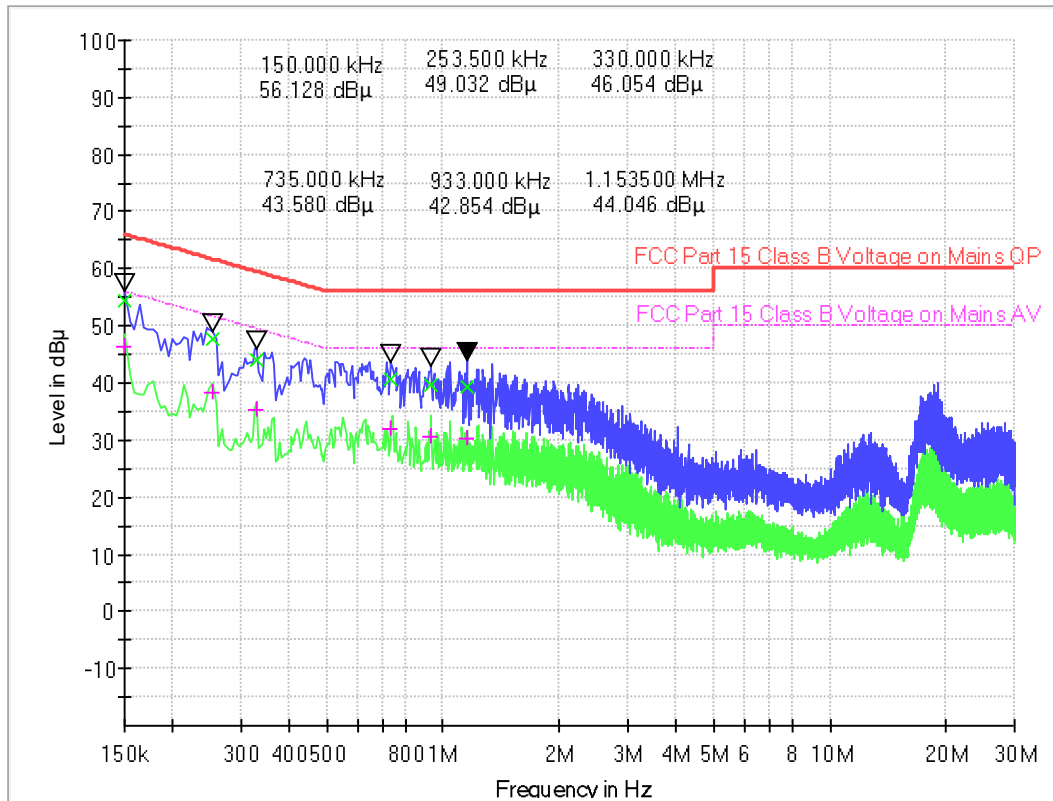
(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBµV)	Measurement Value (dBµV)	Margin (dB)	Frequency (MHz)	Limits (dBµV)	Measurement Value (dBµV)	Margin (dB)
0.163500	65.3	42.86	22.42	0.163500	55.3	36.36	18.93
0.258000	61.5	42.38	19.11	0.258000	51.5	35.39	16.11
0.442500	57.0	40.82	16.19	0.442500	47.0	32.61	14.40
0.870000	56.0	40.84	15.16	0.870000	46.0	30.94	15.06
0.937500	56.0	40.72	15.28	0.937500	46.0	31.49	14.51
1.131000	56.0	40.67	15.33	1.131000	46.0	30.57	15.43

**Test Result: PASS**

**B. Test Result: Filter board 02:**

Main terminal disturbance voltage, Setup1, L phase

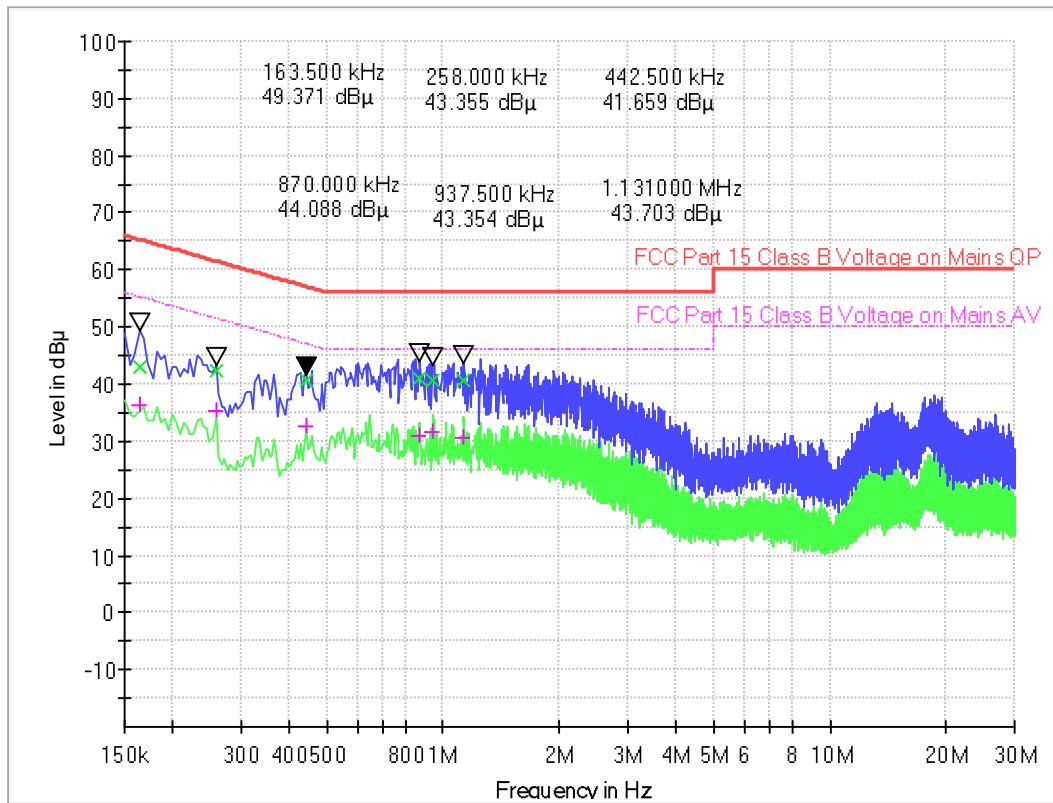


(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dBµV)	Measurement Value (dBµV)	Margin (dB)	Frequency (MHz)	Limits (dBµV)	Measurement Value (dBµV)	Margin (dB)
0.150000	66.0	54.54	11.46	0.150000	56.0	46.28	9.72
0.253500	61.6	47.75	13.90	0.253500	51.6	38.47	13.17
0.330000	59.5	43.99	15.46	0.330000	49.5	35.32	14.13
0.735000	56.0	40.59	15.41	0.735000	46.0	32.10	13.90
0.933000	56.0	39.78	16.22	0.933000	46.0	30.50	15.50
1.153500	56.0	39.37	16.63	1.153500	46.0	30.36	15.64



Main terminal disturbance voltage, Setup 1, N phase



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.163500	65.3	42.86	22.42	0.163500	55.3	36.36	18.93
0.258000	61.5	42.38	19.11	0.258000	51.5	35.39	16.11
0.442500	57.0	40.82	16.19	0.442500	47.0	32.61	14.40
0.870000	56.0	40.84	15.16	0.870000	46.0	30.94	15.06
0.937500	56.0	40.72	15.28	0.937500	46.0	31.49	14.51
1.131000	56.0	40.67	15.33	1.131000	46.0	30.57	15.43

**Test Result: PASS**

## 4. RADIATED EMISSION

### 4.1.1 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:

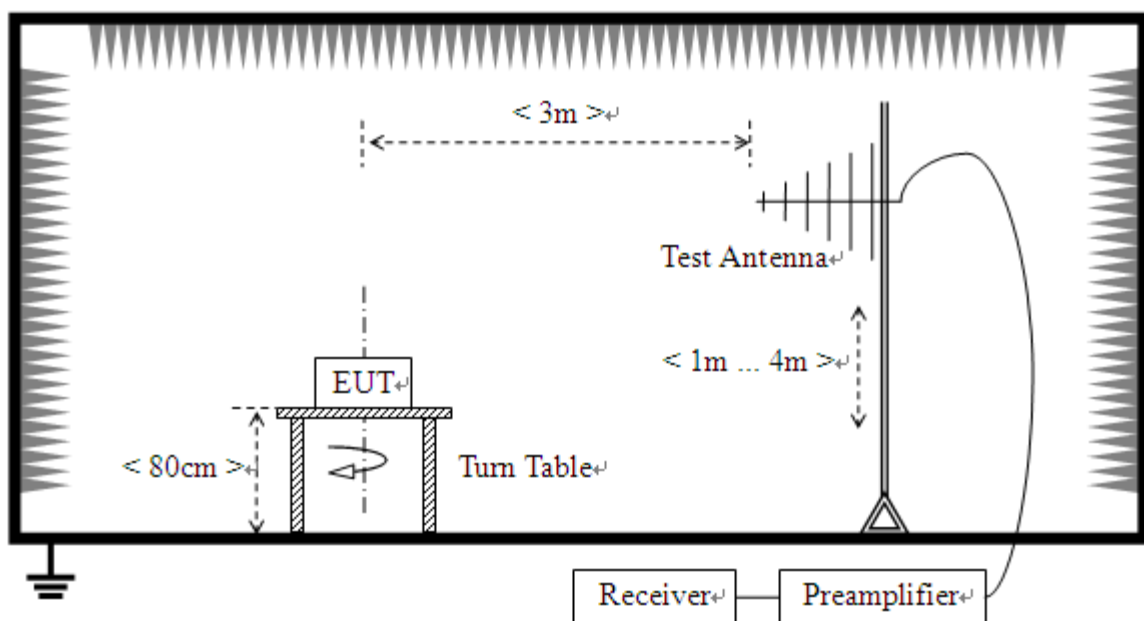
RF Power generated by equipment(watts)	Field strength limit(uV/m) @300m
Below 500	25
500or more	$25 * \text{SQRT}(\text{power}/500)$

Power =1010.625W

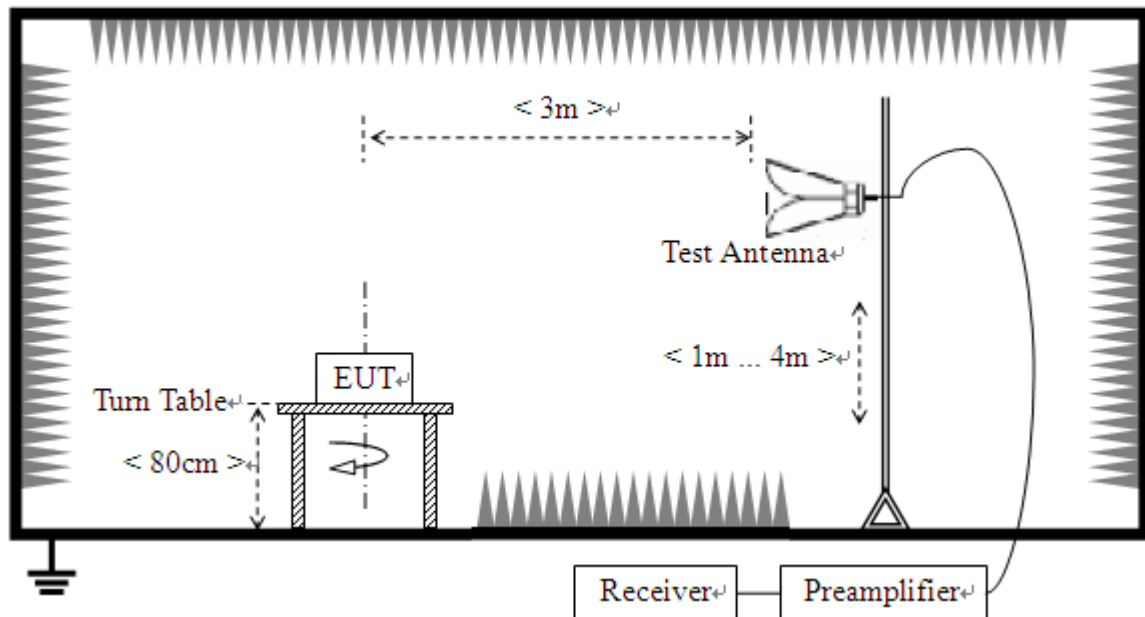
Limit= $20\lg(25 * \text{SQRT}(\text{power}/500)) + 20\lg(300/3)$  @ 3m distance.

### 4.1.2 Test Setup

For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



#### 4.1.3 Test Procedure

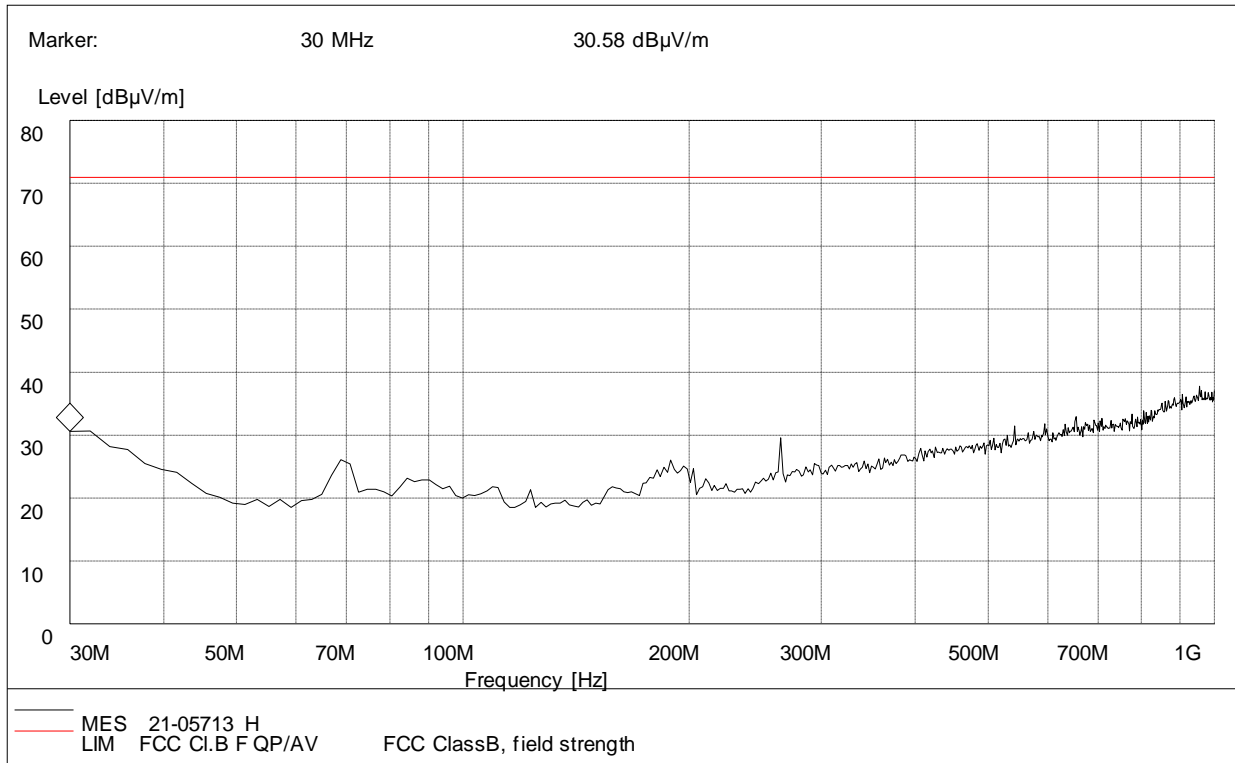
- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 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: Filter board 01**

Radiation disturbances, antenna polarization: Setup1, Horizontal

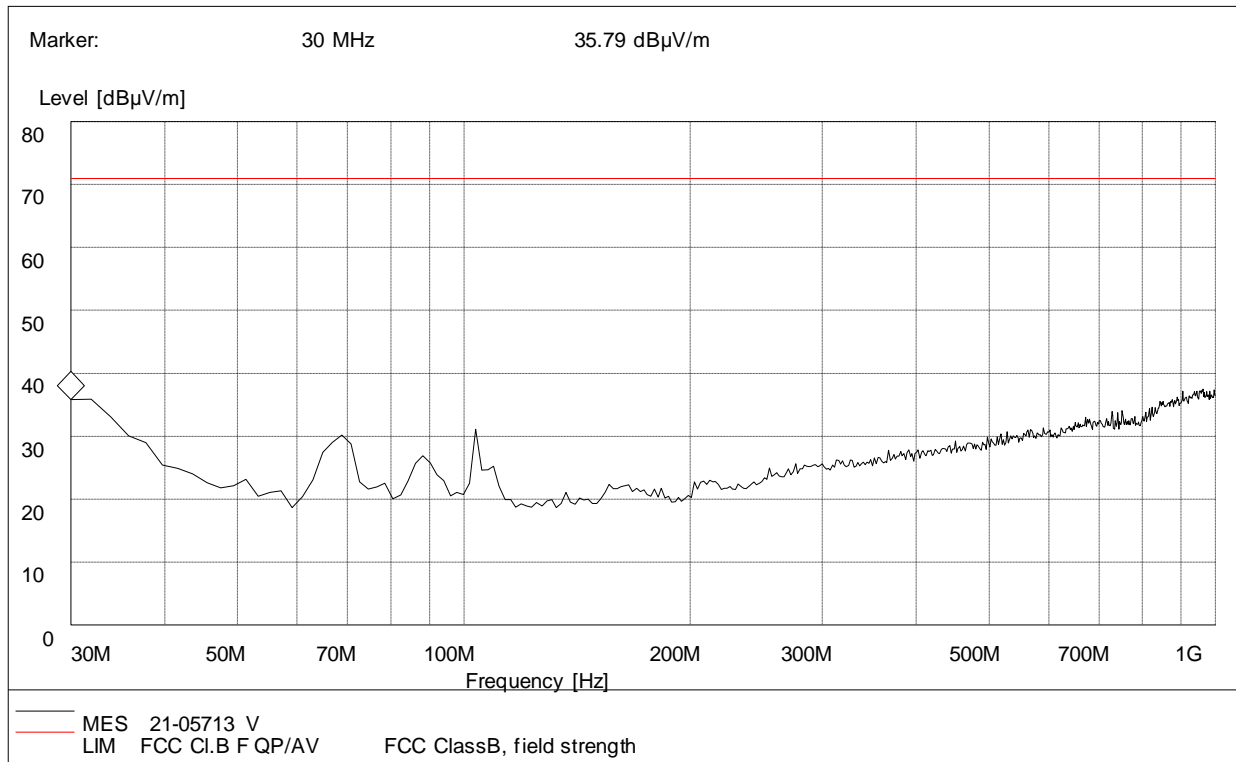


(Plot C: Test Antenna Vertical30M - 1G)

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Antenna	Verdict
30.70	29.28	120.000	100.0	71.02	41.74	Horizontal	Pass
31.58	28.36	120.000	100.0	71.02	42.66	Horizontal	Pass
68.93	24.93	120.000	100.0	71.02	46.09	Horizontal	Pass
189.45	23.84	120.000	100.0	71.02	47.18	Horizontal	Pass
264.51	28.92	120.000	100.0	71.02	42.10	Horizontal	Pass
955.88	40.72	120.000	100.0	71.02	30.30	Horizontal	Pass



Radiation disturbances, antenna polarization: Setup1, Vertical

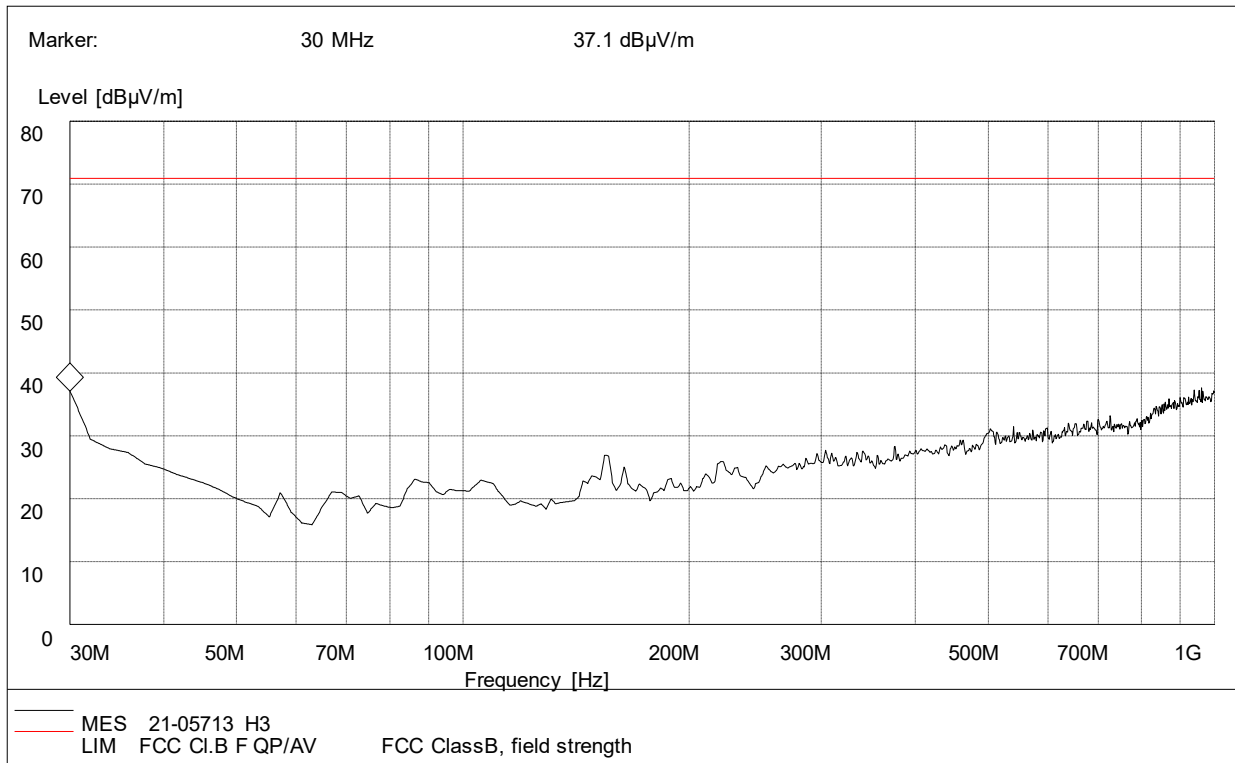


(Plot D: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Antenna	Horizontal
30.70	34.28	120.000	120.0	71.02	36.74	Vertical	Pass
31.68	33.96	120.000	100.0	71.02	37.06	Vertical	Pass
68.83	29.93	120.000	130.0	71.02	41.09	Vertical	Pass
89.45	25.84	120.000	100.0	71.02	45.18	Vertical	Pass
103.59	31.92	120.000	100.0	71.02	39.10	Vertical	Pass
109.88	28.70	120.000	100.0	71.02	42.32	Vertical	Pass

**Test Result: Filter board 02**

Radiation disturbances, antenna polarization: Setup1, Horizontal

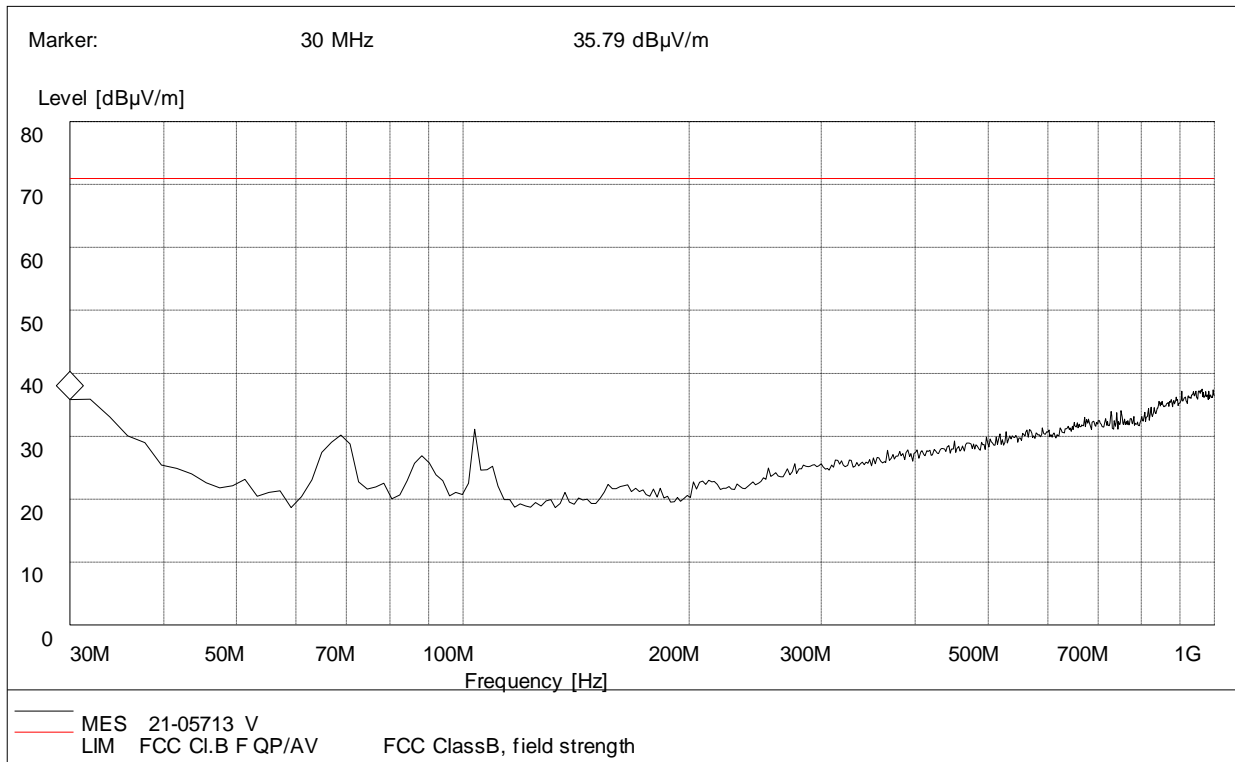


(Plot C: Test Antenna Vertical30M - 1G)

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Antenna	Verdict
30.00	35.15	120.000	100.0	71.02	35.87	Horizontal	Pass
31.92	28.36	120.000	100.0	71.02	42.66	Horizontal	Pass
57.16	24.93	120.000	100.0	71.02	46.09	Horizontal	Pass
---	---	120.000	100.0	71.02	---	Horizontal	---
---	---	120.000	100.0	71.02	---	Horizontal	---
---	---	120.000	100.0	71.02	---	Horizontal	---



Radiation disturbances, antenna polarization: Setup1, Vertical



(Plot D: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Margin (dB)	Antenna	Horizontal
30.70	34.28	120.000	120.0	71.02	36.74	Vertical	Pass
31.68	33.96	120.000	100.0	71.02	37.06	Vertical	Pass
68.83	29.93	120.000	130.0	71.02	41.09	Vertical	Pass
--	--	120.000	100.0	71.02	--	Vertical	--
--	--	120.000	100.0	71.02	--	Vertical	--
--	--	120.000	100.0	71.02	--	Vertical	--

**Above 1GHz-Setup1**

NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2046.02	50.24	-10.86	71.02	20.78	100	200	Horizontal
2	2369.18	56.14	-9.78	71.02	14.88	100	80	Horizontal
3	2420.21	54.38	-9.59	71.02	16.64	100	20	Horizontal
4	2607.30	55.06	-8.88	71.02	15.96	100	140	Horizontal
5	2777.38	54.06	-8.32	71.02	16.96	100	170	Horizontal
6	3704.35	59.08	-4.20	71.02	11.94	100	130	Horizontal

NO.	Freq. [MHz]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1896.97	55.32	-10.30	71.02	15.70	100	20	Vertical
2	1952.23	51.09	-10.47	71.02	19.93	100	200	Vertical
3	2283.82	47.58	-9.19	71.02	23.44	100	130	Vertical
4	2521.88	47.12	-8.30	71.02	23.90	100	180	Vertical
5	2895.97	60.66	-6.22	71.02	10.36	100	210	Vertical
6	9735.93	60.27	9.06	71.02	10.75	100	70	Vertical

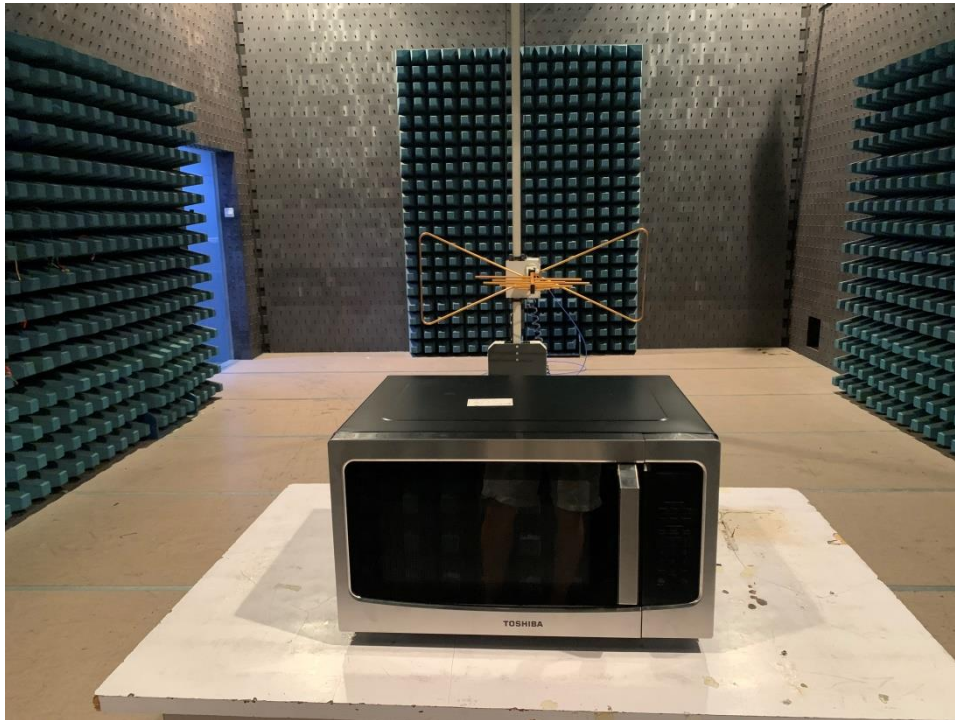
**REMARKS:**

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)

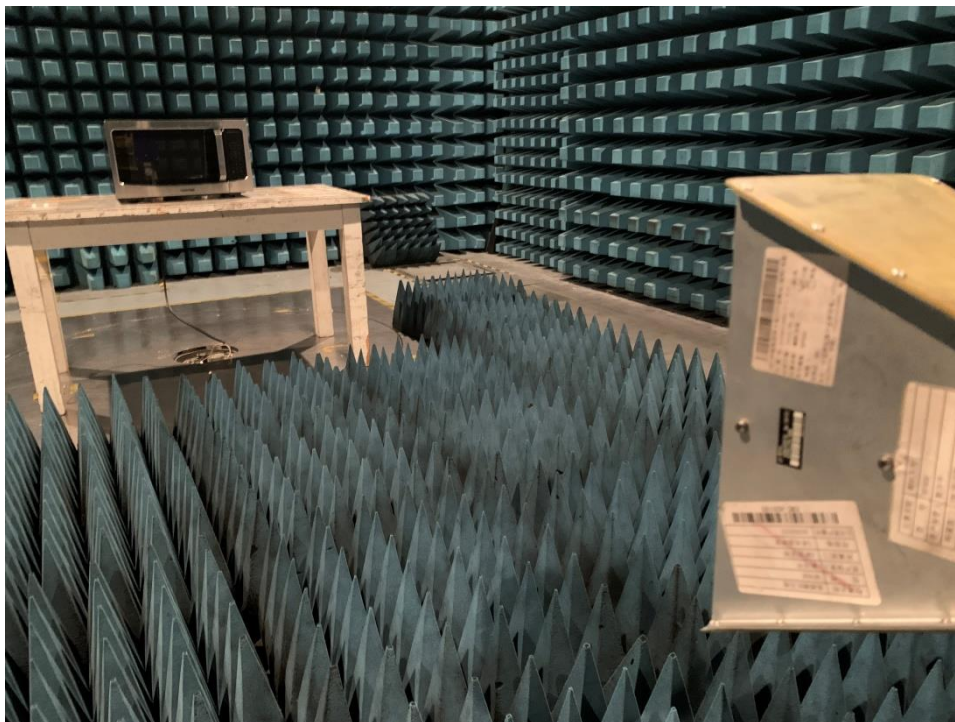


## APPENDIX I: PHOTOGRAPHS OF EMC TEST CONFIGURATION

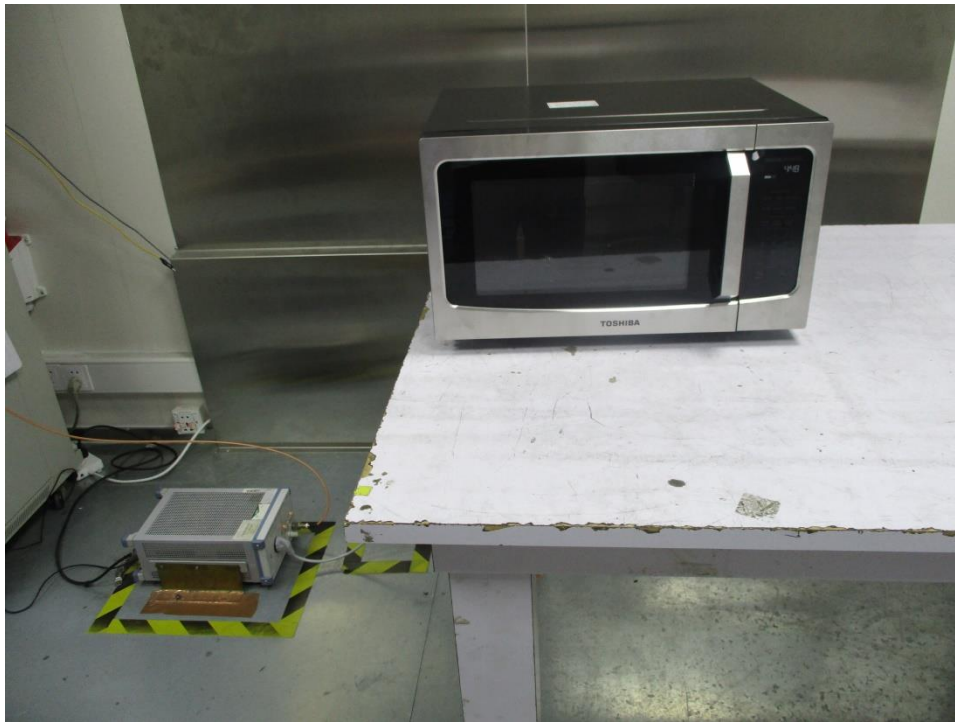
### 1. Radiated Emission Measurement below 1GHz



### 2. Radiated Emission Measurement above 1GHz

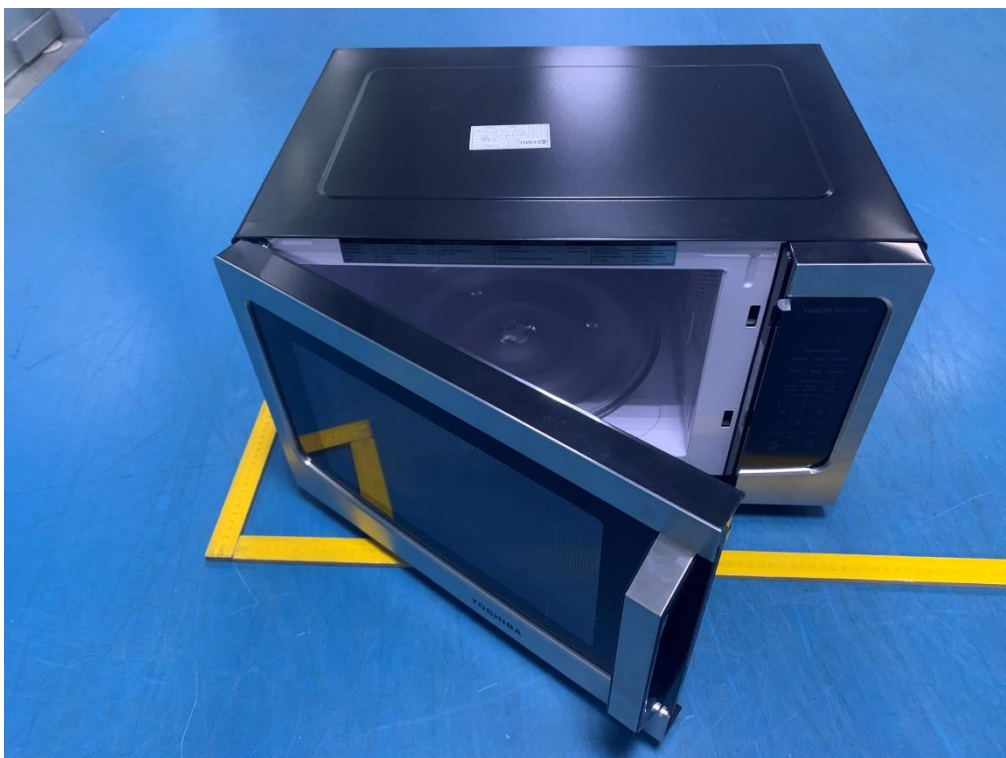
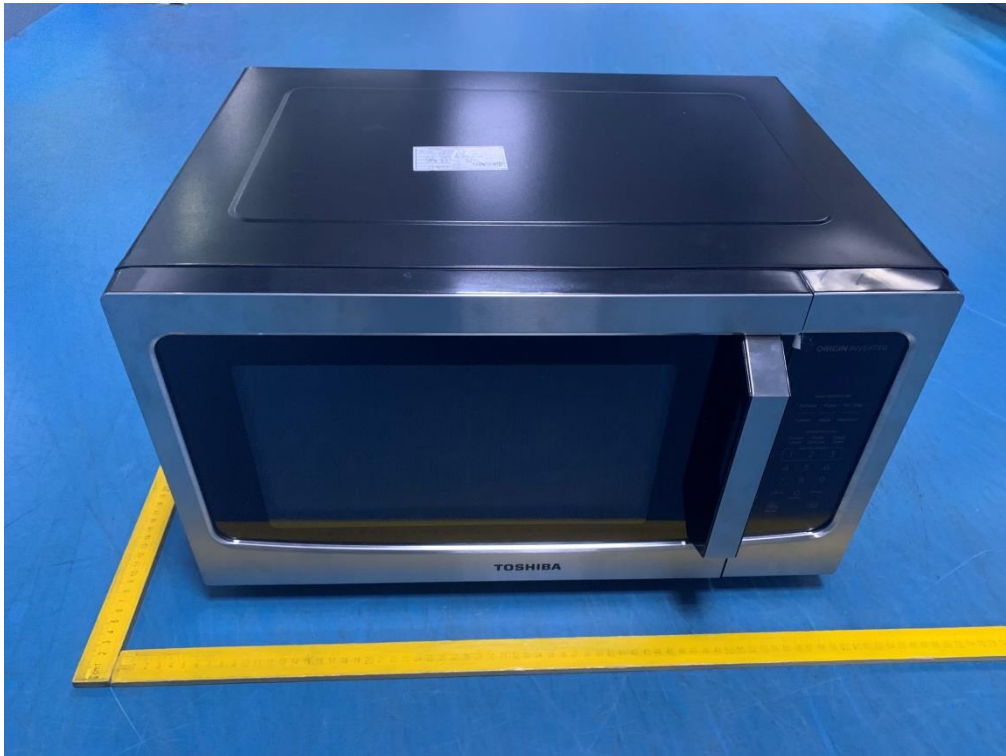


### 3. Conducted emission at AC mains input/output port Measurement



## APPENDIX II: PHOTOGRAPHS OF PRODUCT PHOTO

External Photo



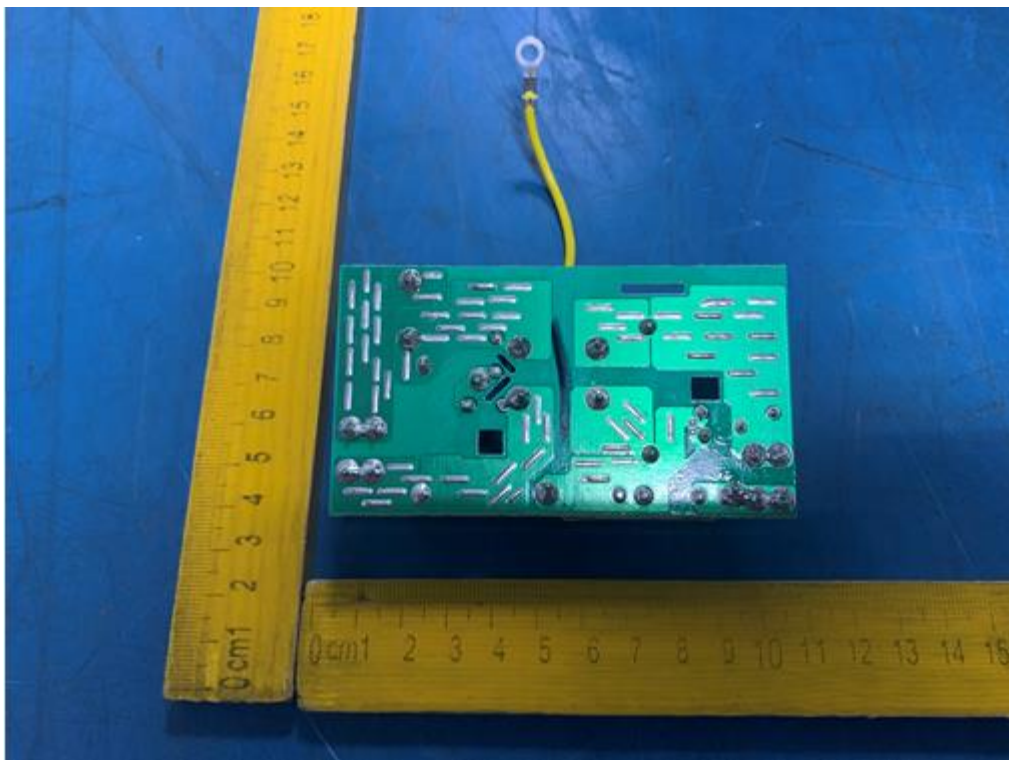
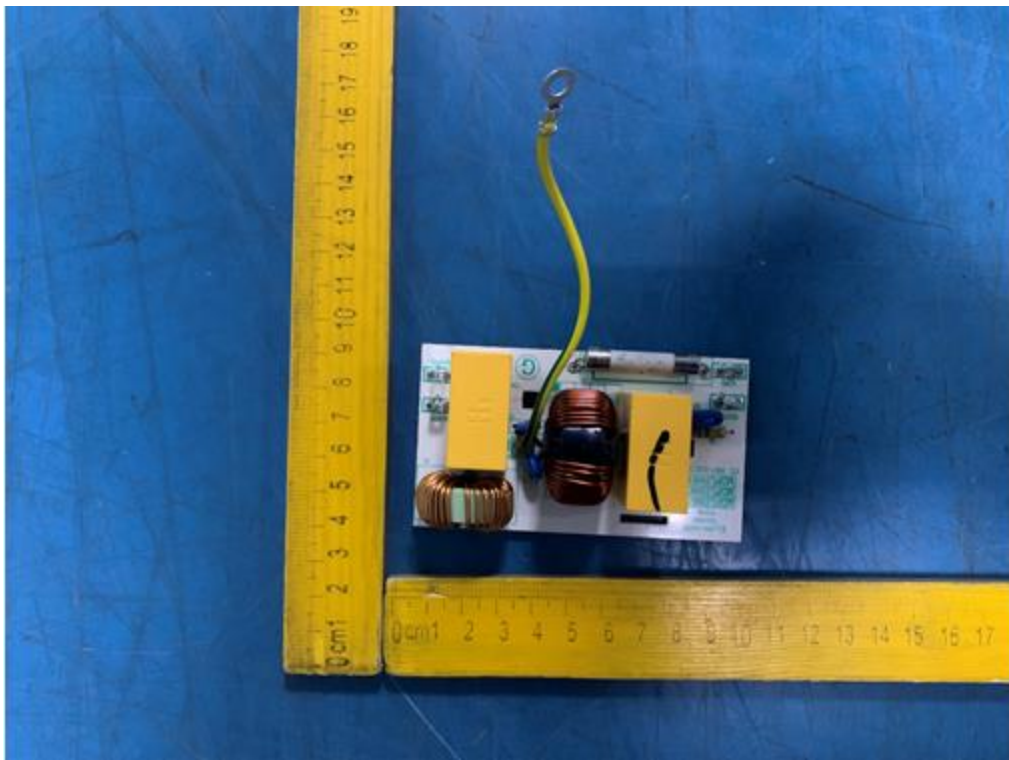


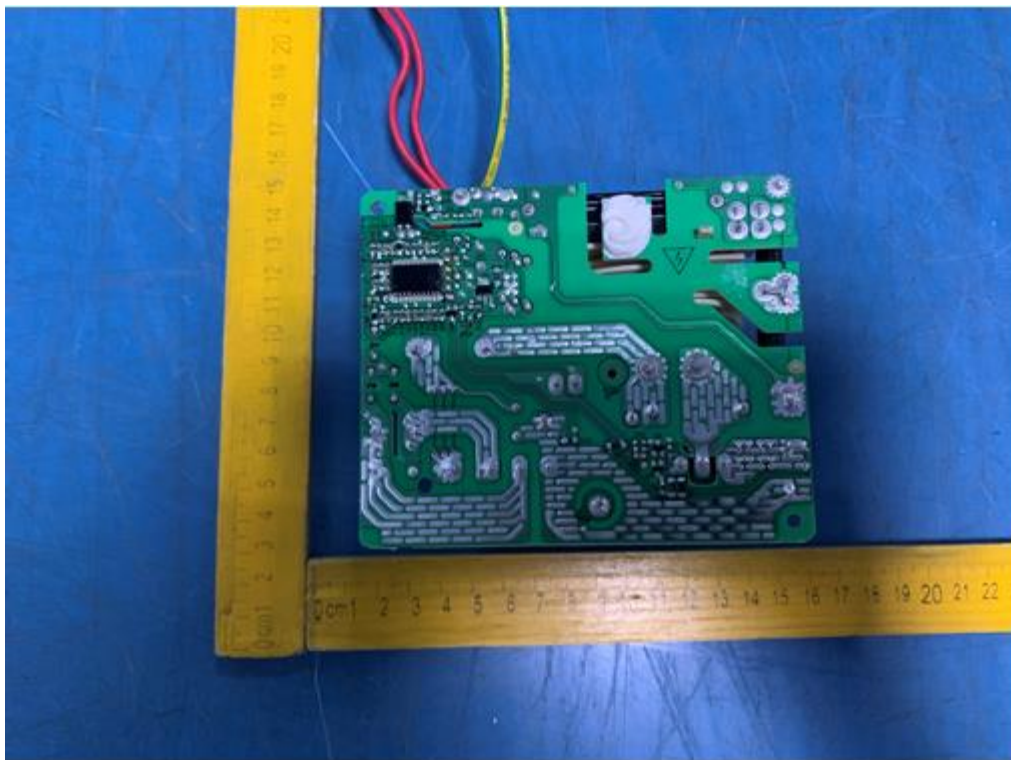
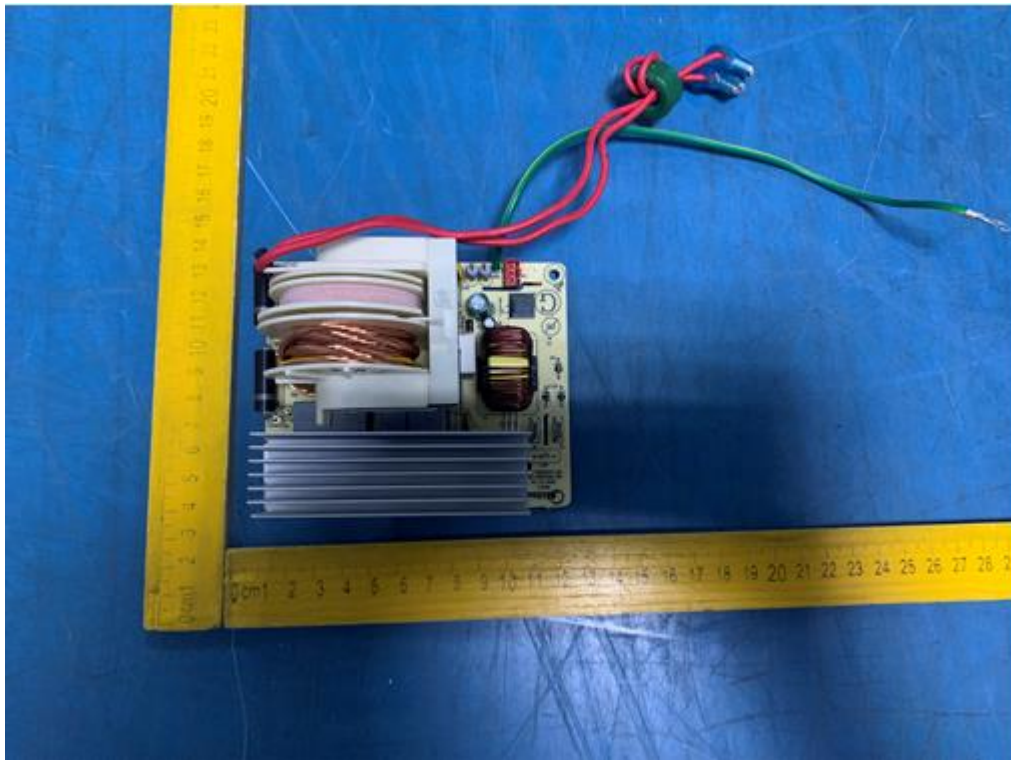


### Internal Photo

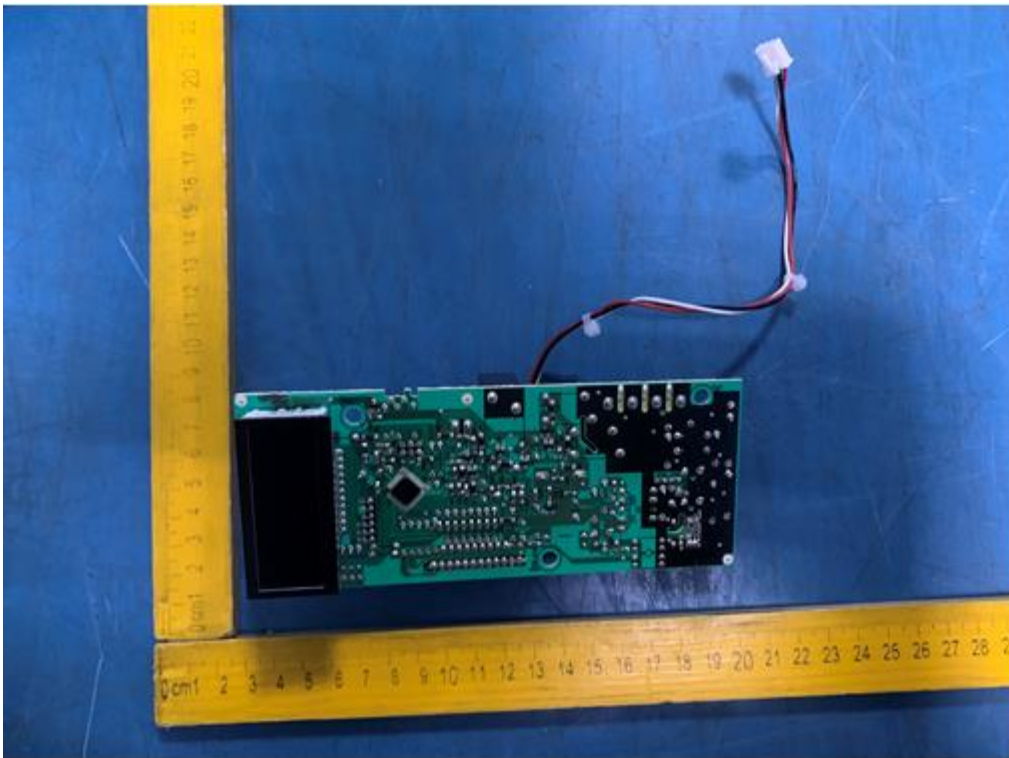
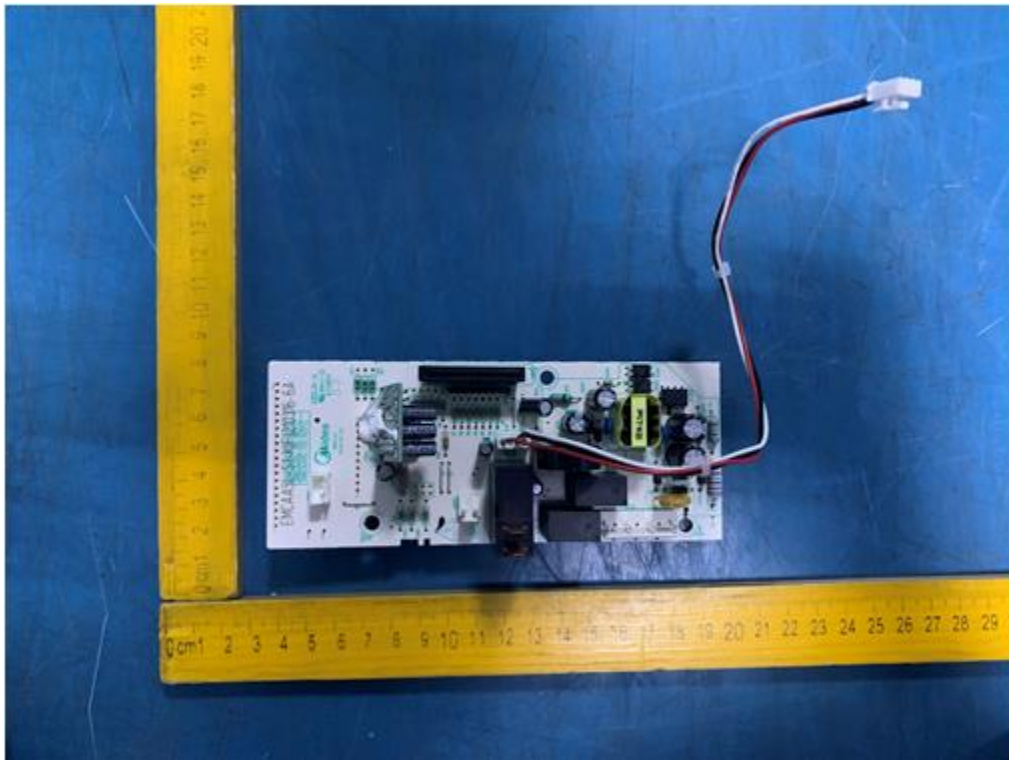


Filter board 01

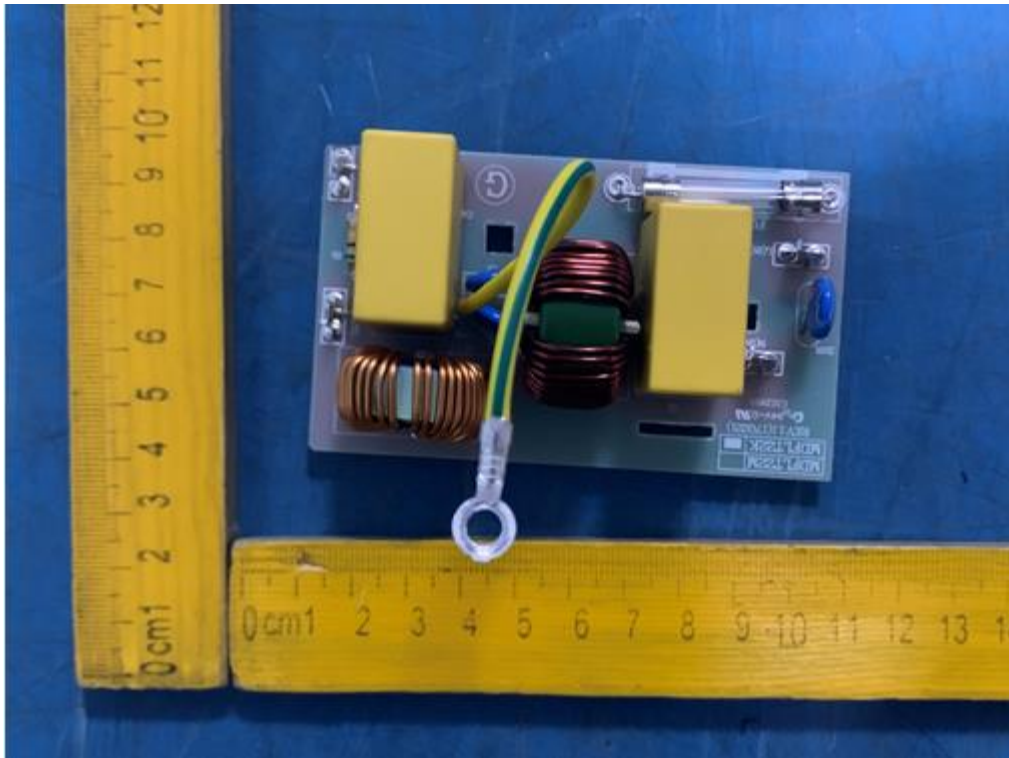


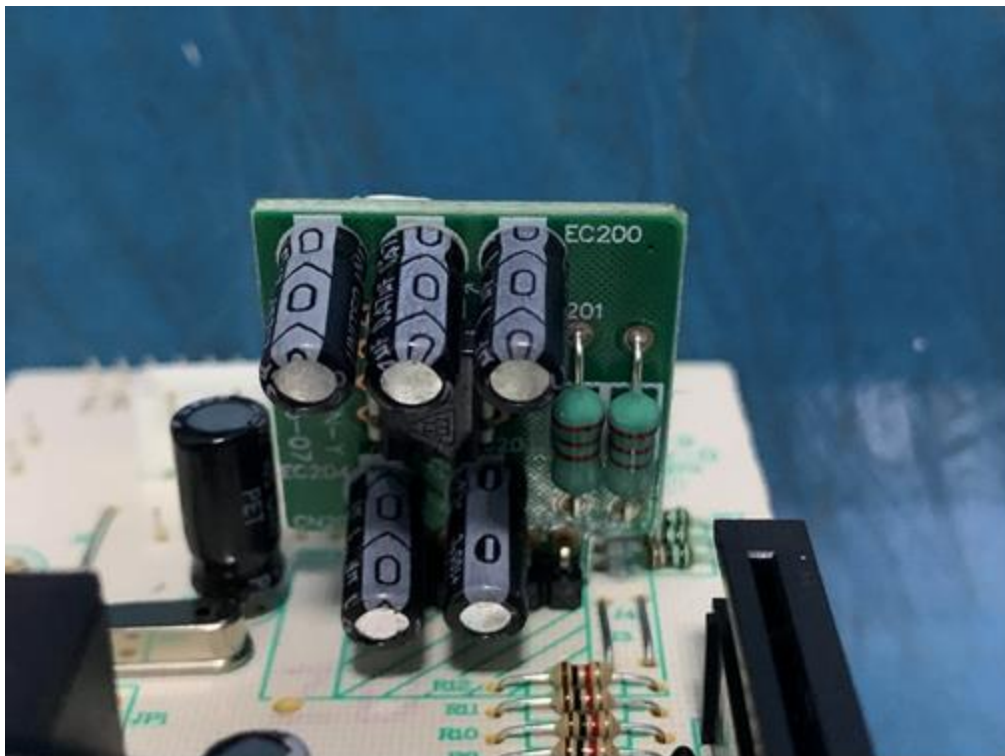
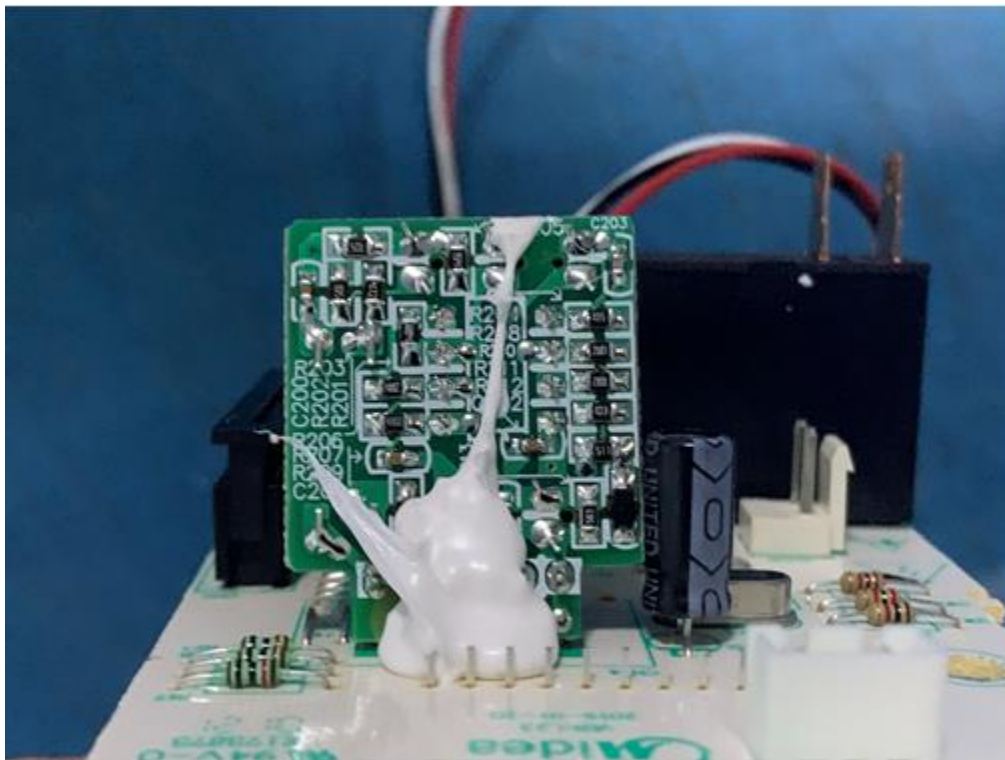






Filter board 02





\*\*\* End Of Report \*\*\*