





# **FCC TEST REPORT**

Report No: STS1801016E01

Issued for

Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

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

Product Name:	Microwave Oven
Brand Name:	Midea
Test Model Name:	EM720C2CK-PM
Series Model:	XM720CYY-PM,XM720CYYY-PM, NS-7CM6-BK,NS-7CM6-SS, NS-7CM6-WH
FCC ID:	VG8XM720CYY-PM
Test Standard:	FCC Part 18

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**TEST RESULT CERTIFICATION** Manufacture's Name ............ Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd. **Product description** Product name...... Microwave Oven Model Name EM720C2CK-PM XM720CYY-PM,XM720CYYY-PM,NS-7CM6-BK,NS-7CM6-SS, Series Model NS-7CM6-WH This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document. Date of Test..... Date of performance of tests ...... Jan 02th. 2018 ~ Jan 09th. 2018 Date of Issue ...... Jan 10th. 2018 Test Result ...... Pass **Testing Engineer** (Kyle Rao) Technical Manager (Chopin Xiao)

(Vita Li)

Authorized Signatory:



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# **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents	
00 Jan 10th. 2018		STS1801016E01	STS1801016E01 ALL	Initial Issue	
Notes Formet version of the report 1/04					

Note: Format version of the report -V01





# **1.TEST SUMMARY**

# **Electromagnetic Interference (EMI)**

EMISSION				
Standard	Item	Class / Severity	Result	
47 CFR PART 18:2016	Conducted Emission (150 kHz to 30 MHz)	18.307(b)	PASS	
	Radiated Emission (9 kHz to 30 MHz)	18.305(b)	PASS	
	Radiated Emission (30 MHz to1 GHz)	18.305(b)	PASS	
	Radiated Emission (1 GHz to 25 GHz)	18.305(b)	PASS	

#### NOTE:

(1) EUT:In this whole report EUT means Equipment Under Test.

#### 1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co., Ltd.
Address:	1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	CNAS Registration No.: L7649; FCC Registration No.: 625569
	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

# 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$  U  $^{,}$  where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2  $^{,}$  providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	All emissions,radiated(<1G) 30MHz-200MHz	±3.73dB
4	All emissions,radiated(<1G) 200MHz-1000MHz	±3.92dB
5	All emissions,radiated(>1G)	±3.31dB

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# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Microwave Oven			
Trade Name	Midea			
Test Model Name	EM720C2CK-PM			
Series Model	XM720CYY-PM,XM720CYYY-PM,NS-7CM6-BK,NS-7CM6-S S,NS-7CM6-WH			
Model Difference	XM720CYY-PM,XM720CYYY-PM,NS-7CM6-BK,NS-7CM6-S S,NS-7CM6-WH model designations as follows: X= E or A; M: Indicate microwave function; 720: "7" indicates the microwave output power is 700W, "20" indicate cavity capacity is 20 liters; C: indicate the design No.; YY/YYY= 0-9 or A-Z, indicate different appearance; -PM: Stand for platform code; Model XM720CYY-PM is identical to model XM720CYYY-PM except model number. NS-7CM6-BK,NS-7CM6-SS,NS-7CM6-WH is identical to model XM720CYY-PM except model number. Model EM720C2CK-PM was selected for the final testing.			
	The technical specifications of EUT are as below:			
	Power Supply  Rated Input Power  (Microwave)	120V~60Hz 1050W		
Technical Specifications	Rated Output Power (Microwave)	700W		
	Frequency	2450 MHz(Class B/Group 2)		
	Magnetron Model	2M217J		
	Magnetron Manufacturer WITOL NOTE: For more informations please refer to user's manual of EUT.			
DESCRIPTION OF SUPPORT UNITS	The EUT has been tested with water. Load for power output measurement :1000 milliliters of water in the beaker located in the centre of the oven Load for frequency measurement :1000 milliliters of water in the beaker located in the centre of the oven Load for conducted and radiated emission measurement :1000 milliliters of water in the beaker located in the centre of the oven			

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

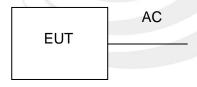
Pretest Mode	Description
Mode 1	Heating Mode

For Conducted Test		
Final Test Mode Description		
Mode 1	Heating Mode	

For Radiated Test			
Final Test Mode Description			
Mode 1	Heating Mode		

NOTE: The test modes were carried out for all operation modes. Only worst case will be show in this report

#### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





# 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
N/A	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
N/A	N/A	N/A	N/A	N/A

# Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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# Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.10.30	2018.10.29
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2017.10.27	2018.10.26
Power Amplifier	Agilent	8449B	60538	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Pre-mplifier(1G-18G)	Agilent	8449B	60538	2017.10.28	2018.10.27
Spectrum Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Pre-mplifier(0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11

# Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	23625	2017.10.15	2018.10.14
Absorbing clamp	R&S	MDS-21	100668	2017.10.19	2018.10.18
Power meter	STS S094	PF9901	G100731CJ351244	2017.03.11	2018.03.10

# Radiation Hazard and Output Power Test equipment

Test Equipment	Manufacturer	Model	Serial No.	Last Calibration	Calibrated Until
Power Meter	Ainuo	AN8720P	058704074	2017.03.11	2018.03.10
Power Meter	STS S094	PF9901	G100731CJ351244	2017.03.11	2018.03.10



#### 3. EMC EMISSION TEST

#### 3.1 OPERATING FREQUENCY

Test Requirement: 47 CFR PART 18
Test Method: FCC OST/ MP-5

Test Date: 2018-01-09
Power Supply: AC 120V 60Hz
Frequency Range: 2400-2500 MHz

Detector: Peak

Limit:

ISM equipment may be operated on any frequency above 9 kHz.And t frequency band 2400-2500MHz is allocated for use by ISM equipment. (§18.301)

ISM frequency	Tolerance
6.78 MHz	±15.0 kHz ±7.0 kHz ±163.0 kHz ±20.0 kHz ±13.0 MHz ±50.0 MHz ±75.0 MHz ±125.0 MHz ±250.0 MHz ±250.0 MHz ±250.0 MHz ±10.0 MHz

# 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.

#### MEASUREMENT DATA

START Frequency (MHz)	STOP Frequency (MHz)
2426.434	2446.384



# 3.1.2 FREQUENCY FOR LINE VOLTAGE

The EUT was operated / warmed by at least 10 minutes of use with a 1000 mL 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.

# **MEASUREMENT DATA**

START Frequency (MHz)	STOP Frequency (MHz)
2412.5	2471.8





# 3.2 RADIATION HAZARD TEST

	Guangdong Midea Kitchen					
CLIENT:	Appliances Manufacturing					
	Co.,Ltd					
MODEL NUMBERS:	EM720C2CK-PM	PRODUCT:	Microwave Oven			
MODEL TESTED:	EM720C2CK-PM	EUT DESIGNATION:	Home or Office			
TEMPERATURE:	22.5°C	HUMIDITY:	55%			
ATM DDESCUDE.	404kBe	CROUNDING:	Through AC Power			
ATM PRESSURE:	101kPa	GROUNDING:	Cord			
TESTED BY:	Barry li	DATE OF TEST:	Jan. 09nd,2018			
TEST REFERENCE:	ANSI C63.4-2014, FCC/OST MI	P-5:1986				
	The EUT was set-up according	g to the FCC MP-5 and F	CC Part 18 for Radiation			
	Hazard Measurement. The me	asurement was using a r	nicrowave leakage meter			
	to measure the Radiation leak	age in the as-received co	ondition with the oven			
TEST PROCEDURE:	door closed. A 1000ml water le	oad in a beaker was loca	ted in the center of the			
	oven and the Microwave Over	n was set to maximum po	wer. While the oven			
7	operating, the microwavemete	er will check the leakage	and then record the			
	maximum leakage.					
TESTED RANGE:	N/A					
TEST VOLTAGE:	AC120V/60Hz 1050W					
	There was no microwave leak	age exceeding a power le	evel of 0.19mW/cm2			
	observed at any point 5cm or	more from the external s	surface of the oven. A			
	maximum of 1.0 mW/cm2 is al	lowed in accordance wit	h the applicable FCC			
RESULTS:	standards. Hence, microwave	leakage in the as-receive	ed condition with the			
	oven door closed was below the maximum allowed. The test results relate only					
	to the equipment under test provided by client.					
CHANGES OR	There were no modifications installed by STS Electronic Technical Testing Corp					
MODIFICATIONS:	(Shenzhen) test personnel.					
M. UNCERTAINTY:	0.0002 mW/cm2					



# 3.3 RF OUTPUT POWER MEASUREMENT

Test Requirement: 47 CFR PART 18
Test Method: FCC OST/ MP-5

Test Date: 2018-01-09

Power Supply: AC120V/60Hz 1050W

# 3.3.1 E.U.T. Operation

Test the EUT in microwave mode with full power.

#### 3.3.2 Measurement Data

Mass	Mass of	Ambient	Initial	Final	Heatin	Power
of	the	temperature(	temperature(	temperature(	g	output(watt
water(	container(	℃)	℃)	℃)	time(S	s)
g)	g)				)	
1000	480	22.7	19	37	120	681

#### Formula:

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

#### **NOTE:**

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

To is the ambient temperature, in degrees Celsius

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

T2 is the final temperature of the water, in degrees Celsius

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



# 3.4 CONDUCTED EMISSIONS, 150 KHZ TO 30MHZ

Test Requirement: 47 CFR PART 18
Test Method: FCC OST/ MP-5

Test Date: 2018-01-09
Power Supply: AC 120V 60Hz
Frequency Range: 150 kHz to 30 MHz

Detector: Peak for pre-scan, Quasi-Peak and Average for the final result.

(9kHz Resolution Bandwidth for 150 kHz to 30 MHz)

Limit:

Frequency range MHz	AC mains terminals dB (μV)		
1011 12	Quasi-peak	Average	
0.15 to 0.5	66 to 56 <sup>*</sup>	56 to 46 <sup>*</sup>	
0.5 to 5	56	46	
5 to 30	60	50	

Note1: The limit decreases linearly with the logarithm of the frequency in therange 0.05 MHz to 0.5

MHz.

Note2: The lower limit is applicable at the transition frequency.

# 3.4.1 TEST PROCEDURE

The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support

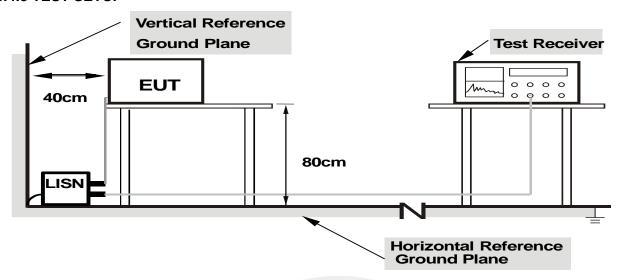
- equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
  - I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the
- cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.4.2 DEVIATION FROM TEST STANDARD

No deviation



#### 3.4.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.4.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



# 3.4.5 TEST RESULTS

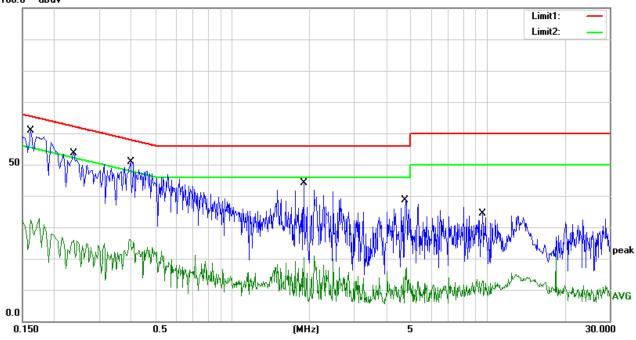
Temperature:	23.5 ℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	51.01	9.79	60.80	65.36	-4.56	QP
2	0.1620	22.02	9.79	31.81	55.36	-23.55	AVG
3	0.2380	43.77	9.95	53.72	62.17	-8.45	QP
4	0.2380	15.90	9.95	25.85	52.17	-26.32	AVG
5	0.3980	40.89	10.03	50.92	57.90	-6.98	QP
6	0.3980	14.66	10.03	24.69	47.90	-23.21	AVG
7	1.9060	34.37	9.78	44.15	56.00	-11.85	QP
8	1.9060	10.48	9.78	20.26	46.00	-25.74	AVG
9	4.7540	28.78	9.85	38.63	56.00	-17.37	QP
10	4.7540	3.61	9.85	13.46	46.00	-32.54	AVG
11	9.5340	24.31	10.16	34.47	60.00	-25.53	QP
12	9.5340	2.78	10.16	12.94	50.00	-37.06	AVG

#### Remark:

1. All readings are Quasi-Peak and Average values.

<sup>2.</sup> Margin = Result (Result = Reading + Factor )-Limit



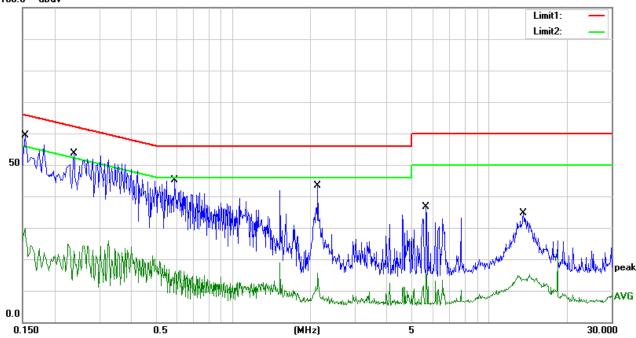
Page 17 of 38 Report No.: STS1801016E01

Temperature:	23.5℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1532	49.55	9.76	59.31	65.82	-6.51	QP
2	0.1532	18.04	9.76	27.80	55.82	-28.02	AVG
3	0.2380	43.54	10.02	53.56	62.17	-8.61	QP
4	0.2380	12.49	10.02	22.51	52.17	-29.66	AVG
5	0.5900	35.19	9.93	45.12	56.00	-10.88	QP
6	0.5900	5.25	9.93	15.18	46.00	-30.82	AVG
7	2.1380	33.55	9.88	43.43	56.00	-12.57	QP
8	2.1380	5.74	9.88	15.62	46.00	-30.38	AVG
9	5.6780	26.79	9.91	36.70	60.00	-23.30	QP
10	5.6780	5.24	9.91	15.15	50.00	-34.85	AVG
11	13.5820	24.68	10.04	34.72	60.00	-25.28	QP
12	13.5820	3.69	10.04	13.73	50.00	-36.27	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result =Reading + Factor )-Limit 100.0 dBuV





# 3.5 RADIATED EMISSIONS,9 KHZ TO25GHZ

#### 3.5.1 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*SQRT(power/500)

Power =717.2W according to cluse7.2.2 Limit=20lg(25\*SQRT(power/500))+20lg(300/3) @ 3m distance.





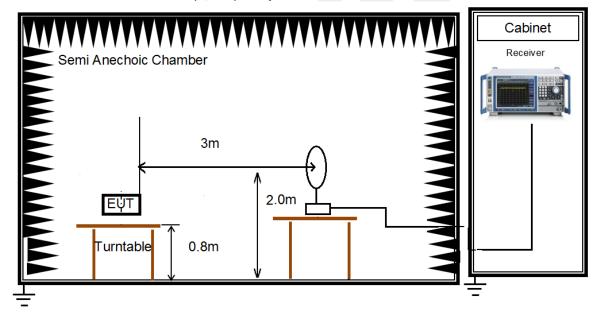
#### 3.5.2 TEST PROCEDURE

- 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 b. 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 c. 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 d. 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 e. EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. 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

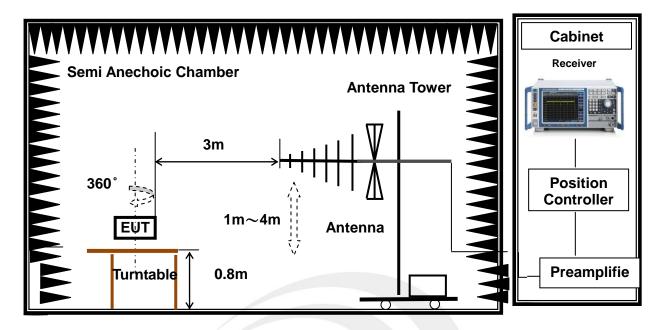
#### 3.5.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency 9KHz~30MHz





(B) Radiated Emission Test-Up Frequency 30 MHz to 1 GHz



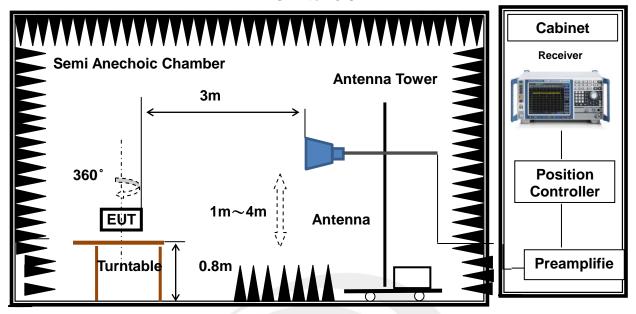
- 1. The radiated emissions test was conducted in a semi-anechoic chamber.
- 2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.

The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



Above 1 GHz:

#### 1 GHz to 18 GHz



- 1. The radiated emissions test was conducted in a fully-anechoic chamber.
- 2. Horn antenna was used for the frequency above 1GHz
- 3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum plots of the EUT.

The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.



# 3.5.4 TEST RESULTS

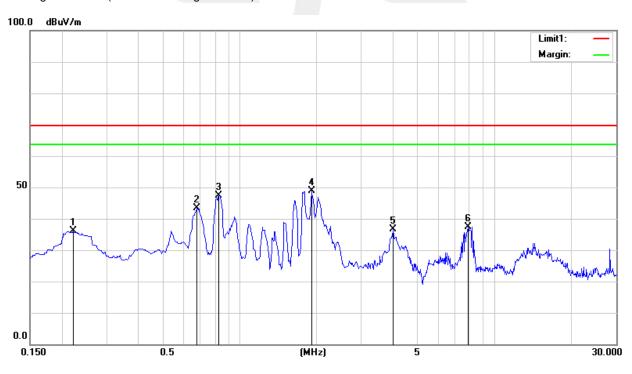
# Between 0.15MHz-30MHz

Temperature:	26 ℃	Relative Humidity:	60%
Phase:	x	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB) Results Limit Margin (dBuV/m) (dBuV/m) (dBuV/m) (dB)		Margin (dB)	Detector	
1	0.2220	-24.48	60.38	36.13	69.30	-33.40	QP
2	0.6790	-7.38	50.61	43.46	69.30	-26.07	QP
3	0.8260	-1.95	49.03	47.31	69.30	-22.22	QP
4	1.9111	5.28	43.37	48.88	69.30	-20.65	QP
5	4.0007	-1.12	37.42	36.53	69.30	-33.00	QP
6	7.8810	2.08	34.95	37.26	69.30	-32.27	QP

#### Remark:

- 1. All readings are Quasi-Peak.
- 2. Margin = Result (Result = Reading + Factor )-Limit





# Between 0.15MHz-30MHz

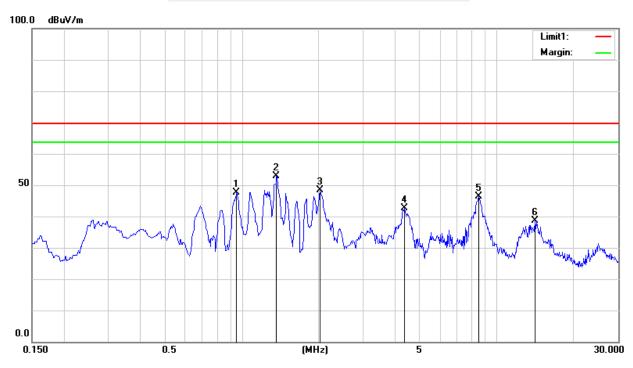
Temperature:	26 ℃	Relative Humidity:	60%
Phase:	Y	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB) Results Limit (dBuV/m) (dBuV/m)		Margin (dB)	Detector	
1	0.9556	-0.28	47.63	47.58	69.30	-21.95	QP
2	1.3730	7.02	45.60	52.85	69.30	-16.68	QP
3	2.0304	5.22	42.88	48.33	69.30	-21.20	QP
4	4.3590	5.49	36.90	42.62	69.30	-26.91	QP
5	8.5380	11.37	34.72	46.32	69.30	-23.21	QP
6	14.1795	4.23	34.23	38.69	69.30	-30.84	QP

#### Remark:

1. All readings are Quasi-Peak .

2. Margin = Result (Result = Reading + Factor )-Limit





# Between 30MHz-1GHz

Temperature:	<b>24.6</b> ℃	Relative Humidity:	58%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	68.1514	42.88	-24.15	18.73	69.30	-50.57	QP
2	108.6470	42.38	-18.46	23.92	69.30	-45.38	QP
3	182.5592	43.73	-19.65	24.08	69.30	-45.22	QP
4	226.8936	44.48	-18.68	25.80	69.30	-43.50	QP
5	578.6700	39.76	-6.70	33.06	69.30	-36.24	QP
6	711.6734	49.41	-4.94	44.47	69.30	-24.83	QP

#### Remark:

1. All readings are Quasi-Peak .

2. Margin = Result (Result = Reading + Factor )-Limit





# Between 30MHz-1GHz

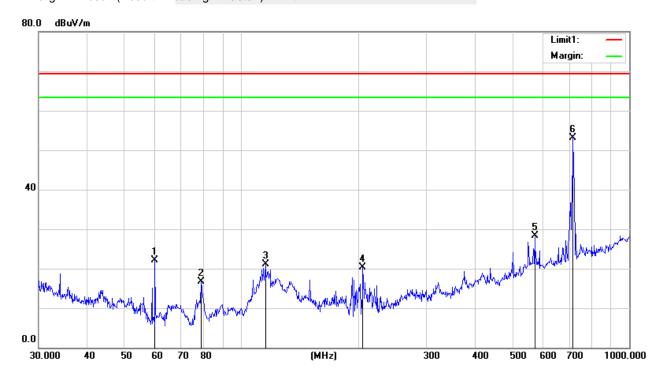
Temperature:	<b>24.6</b> ℃	Relative Humidity:	58%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)		Limit (dBuV/m)	Margin (dB)	Detector
1	59.8588	46.43	-24.30	22.13	69.30	-47.17	QP
2	78.6888	39.58	-22.88	16.70	69.30	-52.60	QP
3	115.3205	39.06	-17.99	21.07	69.30	-48.23	QP
4	205.6751	40.15	-19.92	20.23	69.30	-49.07	QP
5	570.6100	34.92	-6.64	28.28	69.30	-41.02	QP
6	716.6820	57.96	-4.76	53.20	69.30	-16.10	QP

#### Remark:

1. All readings are Quasi-Peak.

2. Margin = Result (Result = Reading + Factor )-Limit





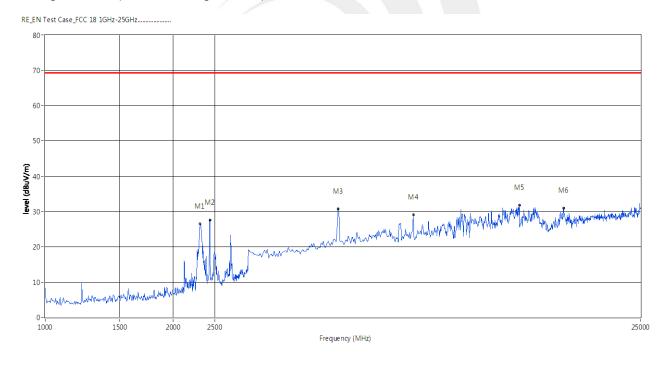
# Between 1GHz-25GHz

Temperature:	25 ℃	Relative Humidity:	65%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

N 0	Frequency (MHz)	Result s (dBuV/ m)	Factor (dB)	Limit (dBuV/ m)	Margin (dB)	Detect or	Table (o)	Heig ht (cm)	ANT	Verdic t
1	2311.721	26.48	-36.48	69.3	42.82	Peak	243.10	100	Horizontal	Pass
2	2436.409	27.65	-33.90	69.3	41.65	Peak	153.70	100	Horizontal	Pass
3	4870.324	30.84	-23.17	69.3	38.46	Peak	18.70	100	Horizontal	Pass
4	7314.214	29.06	-23.78	69.3	40.24	Peak	77.90	100	Horizontal	Pass
5	12975.062	31.80	-12.98	69.3	37.50	Peak	165.50	100	Horizontal	Pass
6	16471.322	30.95	-27.04	69.3	38.35	Peak	282.00	100	Horizontal	Pass

#### Remark:

- 1. All readings are Quasi-Peak .
- 2. Margin = Result (Result = Reading + Factor )-Limit





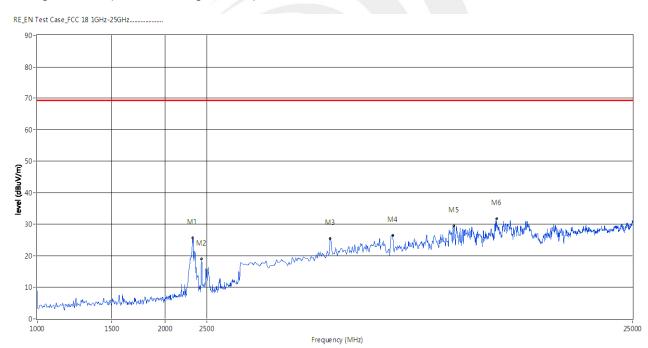
# Between 1GHz-25GHz

Temperature:	<b>25</b> ℃	Relative Humidity:	65%	
Phase:	Vertical	Test Mode:	Mode 1	
Test Voltage:	AC 120V/60Hz			

N 0	Frequency (MHz)	Resul ts (dBu V/m)	Factor (dB)	Limit (dBuV/ m)	Margin (dB)	Detect or	Table (o)	Height (cm)	ANT	Verdic t
1	2316.708	25.75	-36.45	69.3	43.55	Peak	179.30	100	Vertical	Pass
2	2431.421	18.95	-33.99	69.3	50.35	Peak	184.20	100	Vertical	Pass
3	4870.324	25.44	-23.17	69.3	43.86	Peak	243.60	100	Vertical	Pass
4	6840.399	26.52	-19.36	69.3	42.78	Peak	0.30	100	Vertical	Pass
5	9508.728	29.46	-12.90	69.3	39.84	Peak	316.60	100	Vertical	Pass
6	11977.556	31.86	-13.90	69.3	37.44	Peak	330.40	100	Vertical	Pass

#### Remark:

- 1. All readings are Quasi-Peak.
- 2. Margin = Result (Result = Reading + Factor )-Limit





# **APPENDIX 1-PHOTOS OF TEST SETUP**

Radiated Measurement Photos









**Conducted Measurement Photos** 







Power meter





# APPENDIX 2-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

















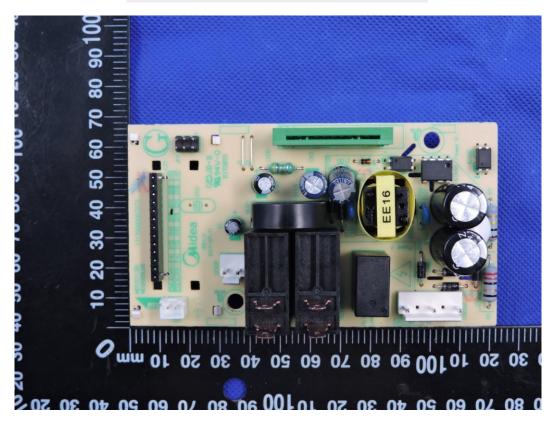




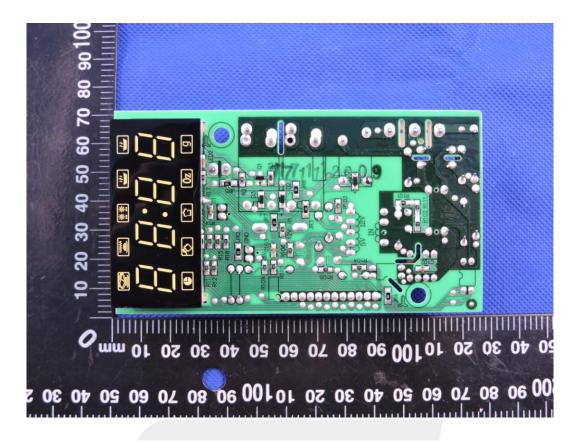




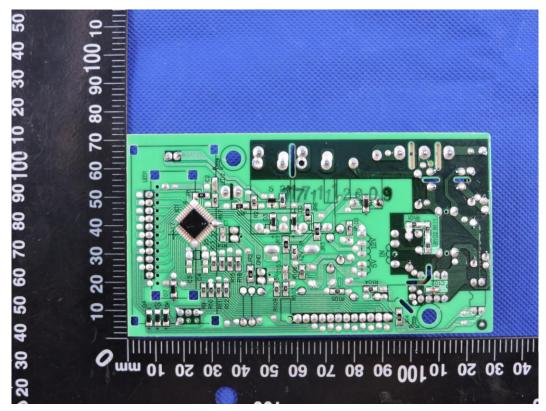






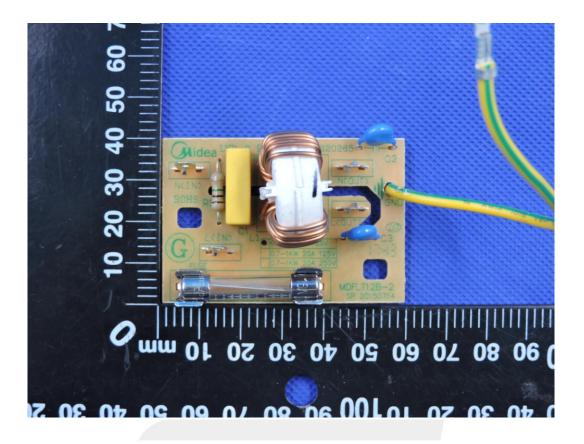


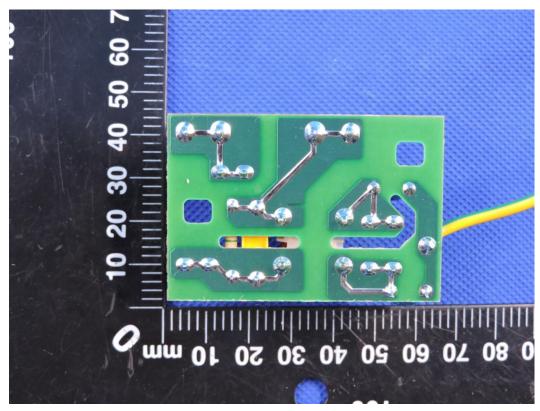
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