



FCC Test Report

Client Information:

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

Applicant add.: No.6, Yong An Road, Beijiao, Shunde, Foshan, Guangdong, China 528311

Product Information:

EUT Name: Microwave Oven

Model No.: EM925A2GK-P00A00,JES1097SM1SS

Brand Name: Midea/GE APPLIANCES

FCC ID: VG8EM925AYYGEW

Standards: 47 CFR PART 18:2018

Prepared By:

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Add. : Room 101, Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Date of Receipt: Apr. 27, 2018

Date of Test: Apr. 29~May. 04, 2018

Date of Issue: May 05, 2018

Test Result: Pass

This device described above has been tested by Shenzhen STS Test Services Co., Ltd., 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.

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Reviewed by: _____

Denny Huang

Approved by: _____

Stephen Guo



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1 TEST SUMMARY

Electromagnetic Interference (EMI)				
Test	Test Requirement	Test Method	Class / Severity	Result
Radiation Hazard	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	Clause 3.1 of OST/ MP-5:1986	PASS
Operating Frequency	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	Clause 4.5 of OST/ MP-5:1986	PASS
Output Power Measurement	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	Clause 4.3 of OST/ MP-5:1986	PASS
Conducted Emission (150 kHz to 30 MHz)	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	18.307(b)	PASS
Radiated Emission (150 kHz to 30 MHz)	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	18.305(b)	PASS
Radiated Emission (30 MHz to 25GHz)	47 CFR PART 18: 2018	FCC OST/ MP-5:1986	18.305(b)	PASS

Remark :

EUT: In this whole report EUT means Equipment Under Test.

Product descriptions:

1. The product will be produced in different colors.
2. Model JES1097SM1SS all same as model EM925A2GK-P00A00, the model JES1097SM1SS is derivative model, only the model name different.



2 GENERAL INFORMATION

2.1 CLIENT INFORMATION

Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Address of Applicant: No.6, Yong An Road, Beijiao, Shunde, Foshan, Guangdong, China
528311

2.2 GENERAL DESCRIPTION OF E.U.T.

Product Description: Microwave Oven
Brand Name: Midea/GE APPLIANCES
Model No.: EM925A2GK-P00A00,JES1097SM1SS
Declaration of different: Only different in model name and brand name.
Magnetron Model 2M219J
Magnetron Manufacturer WITOL

2.3 DETAILS OF E.U.T.

Rated Supply (Voltage): 120V 60Hz input 1350W output 900W
Power Cable: 1.0m x 3 wires unscreened AC mains cable.

2.4 DESCRIPTION OF SUPPORT UNITS

- 1). Load for power output measurement :1000 milliliters of water in the beaker located in the center of the oven;
- 2). Load for frequency measurement :1000 milliliters of water in the beaker located in the center of the oven;
- 3). 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.
- 4). Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

2.5 DEVIATION FROM STANDARDS

None.

2.6 GENERAL TEST CLIMATE DURING TESTING

Temperature: 15-30 °C Humidity: 30~70 %RH Atmospheric Pressure: 860-1060 mbar

2.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

2.8 TEST LOCATION & FACILITY

Shenzhen STS Test Services Co., Ltd.

1/F., Building B, Zhuoke Science Park, No. 190, Chongqing Road, Fuyong Street,
Bao'an District, Shenzhen, Guangdong, China

The test facility was accredited. FCC Registration Number: 625569



3 EQUIPMENT LIST

Conducted Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
	LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
	Conduction Cable	EM	C01	N/A	2017.10.18	2018.10.17
	Temperature & Humidity	Mieo	HH660	N/A	2017.10.15	2018.10.14
Radiated Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31
	Bilog Antenna	TESEQ	CBL6111D	34678	2017.10.30	2018.10.29
	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26
	SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA917036 7	2018.05.01	2019.04.30
	Temperature & Humidity	HH660	Mieo	N/A	2017.10.15	2018.10.14
	Temperature & Humidity	HH660	Mieo	N/A	2017.10.15	2018.10.14
	Pre-Amplifier (0.1M-3GHz)	EM	EM330	60538	2017.10.28	2018.10.27
	Pre Amplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
	Operational Manual Passive Loop (9K--30MHz)	ETS	6512	00165355	2017.10.18	2018.10.17
	Low Frequency Cable	EM	R01	N/A	2017.10.18	2018.10.17
	Low Frequency Cable	EM	R06	N/A	2017.10.18	2018.10.17
	High Frequency Cable	SCHWARZBECK	R04	N/A	2017.10.18	2018.10.17
	High Frequency Cable	SCHWARZBECK	R02	N/A	2017.10.18	2018.10.17
	Semi-anechoic Chamber	Changling	966	N/A	2017.10.15	2018.10.14
	Turn Table	EM	SC100_1	60531	N/A	N/A
	Antenna Mast	EM	SC100	N/A	N/A	N/A
	Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A



Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	Spectrum Analyzer	Agilent	E4407B	MY50140340	2018.03.08	2019.03.07
	Signal Analyzer	Agilent	N9020A	MY49100060	2018.03.08	2019.03.07
	Microwave Measurement system	HOLADAY	HI-1710	98371	2018.03.10	2019.03.09
Auxiliary Equipment						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
	Power meter	EVERFINE	PF9901	G100731cj1351244	2017.09.29	2018.09.28
	Weight meter	BALANCE	BCS-511-60	110213	2017.09.29	2018.09.28
	Thermometer	0-200°C	STS 002	002	2017.05.09	2018.09.28
	Beaker	1 L	STS 003	003	N/A	N/A

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	± 2.88 dB
2	Conducted Emission (150KHz-30MHz)	± 2.67 dB
3	Radiated Emission (9KHz-30MHz)	± 3.02 dB
4	Radiated Emission (30MHz-200MHz)	± 3.80 dB
5	Radiated Emission (200MHz-1000MHz)	± 3.97 dB
6	Radiated Emission (>1GHz)	± 3.03 dB



4 EMISSION TEST RESULTS

4.1 RADIATION HAZARD

Test Requirement: 47 CFR PART 18

Test Method: FCC OST/ MP-5

Test Date: 2018-05-03

Power Supply: AC 120V 60Hz

Test Frequency Range: N/A

TEMP:	26°C	HUMIDITY:	54%
AIR :	101kPa	EUT DESIGNATION:	Indoor used
TEST PROCEDURE:	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 1000ml water load in a beaker 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.		
RESULTS:	There was no microwave leakage exceeding a power level of 0.61mW/cm ² observed at any point 5 cm or more from the external surface of the oven. A maximum of 1.0 mW/cm ² is allowed in accordance with the applicable FCC standards. Hence, microwave leakage in the as-received 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 MODIFICATIONS:	N/A		
M. UNCERTAINTY:	0.0002 mW/cm ²		



4.2 OPERATING FREQUENCY

Test Requirement: 47 CFR PART 18
 Test Method: FCC OST/ MP-5
 Test Date: 2018-05-03
 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 the frequency band 2400-2500MHz is allocated for use by ISM equipment. (§18.301)

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



4.2.1 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)
2427	2465

4.1.2 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)
2440.5	2462.4



4.3 RF OUTPUT POWER MEASUREMENT

Test Requirement: 47 CFR PART 18
 Test Method: FCC OST/ MP-5
 Test Date: 2018-05-03
 Power Supply: AC 120V 60Hz

4.3.1 E.U.T. OPERATION

Test the EUT in microwave mode with full power.

4.3.2 MEASUREMENT DATA

Mass of water(g)	Mass of the container(g)	Ambient temperature(°C)	Initial temperature(°C)	Final temperature(°C)	Heating time(S)	Power output(watts)
1000	480	29	23.3	45	120	638.12

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

T₀ is the ambient temperature, in degrees Celsius

T₁ 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.



4.4 CONDUCTED EMISSIONS, 150 KHZ TO 30MHZ

Test Requirement: 47 CFR PART 18
 Test Method: FCC OST/ MP-5
 Test Date: 2018-05-03
 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:

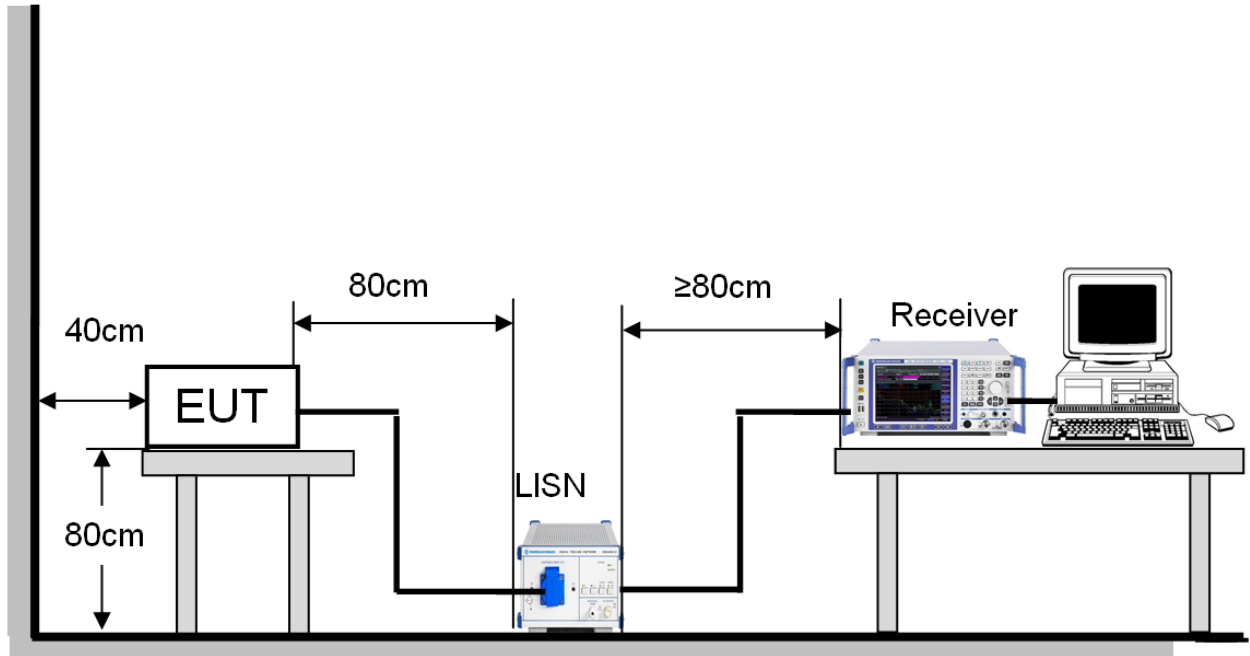
Frequency range MHz	AC mains terminals	
	dB (μV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.
 Note2: The lower limit is applicable at the transition frequency.

4.4.1 E.U.T. OPERATION

Test the EUT in microwave mode with full power.

4.4.2 TEST SETUP AND PROCEDURE



1. The mains terminal disturbance voltage test was conducted in a shielded room.
2. The EUT was connected to nominal power supply through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3. The tabletop EUT was placed upon a non-metallic table 0.8 m 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. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.



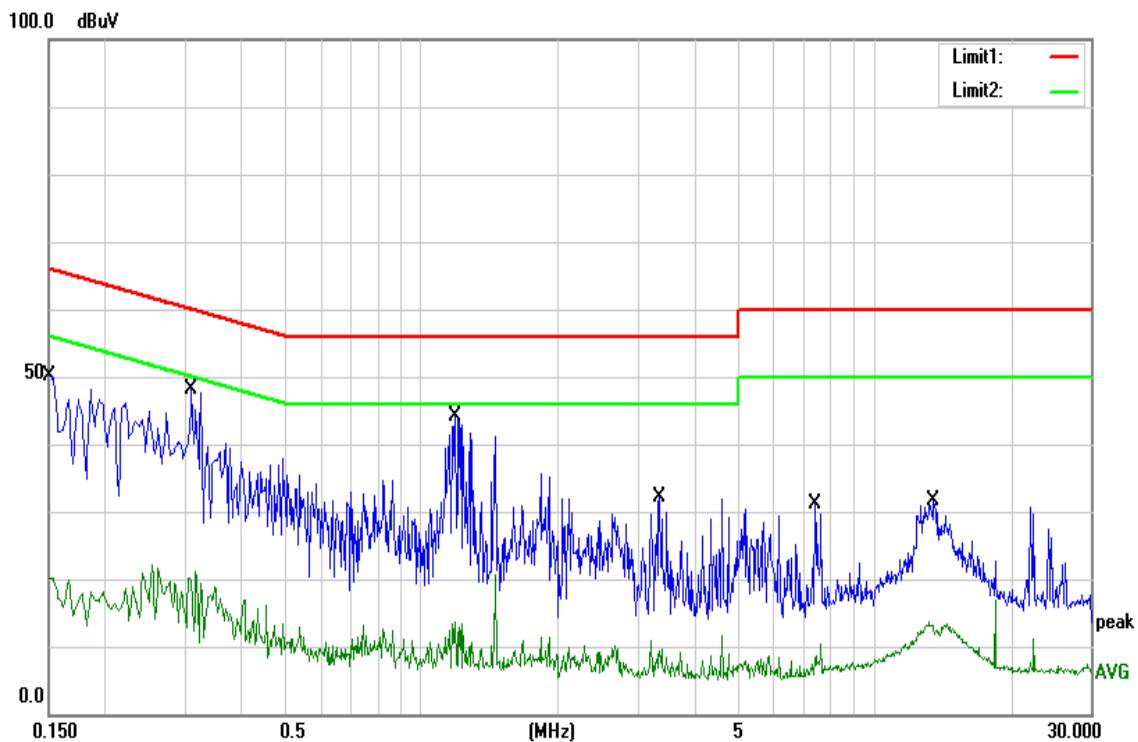
4.4.3 MEASUREMENT DATA

Pre-scan was performed with peak detected on both live and neutral cable. Quasi-peak & average measurements were performed at the frequencies which maximum peak emission level was detected.

Please see the attached Quasi-peak and Average test results.

Live line:

Peak Scan

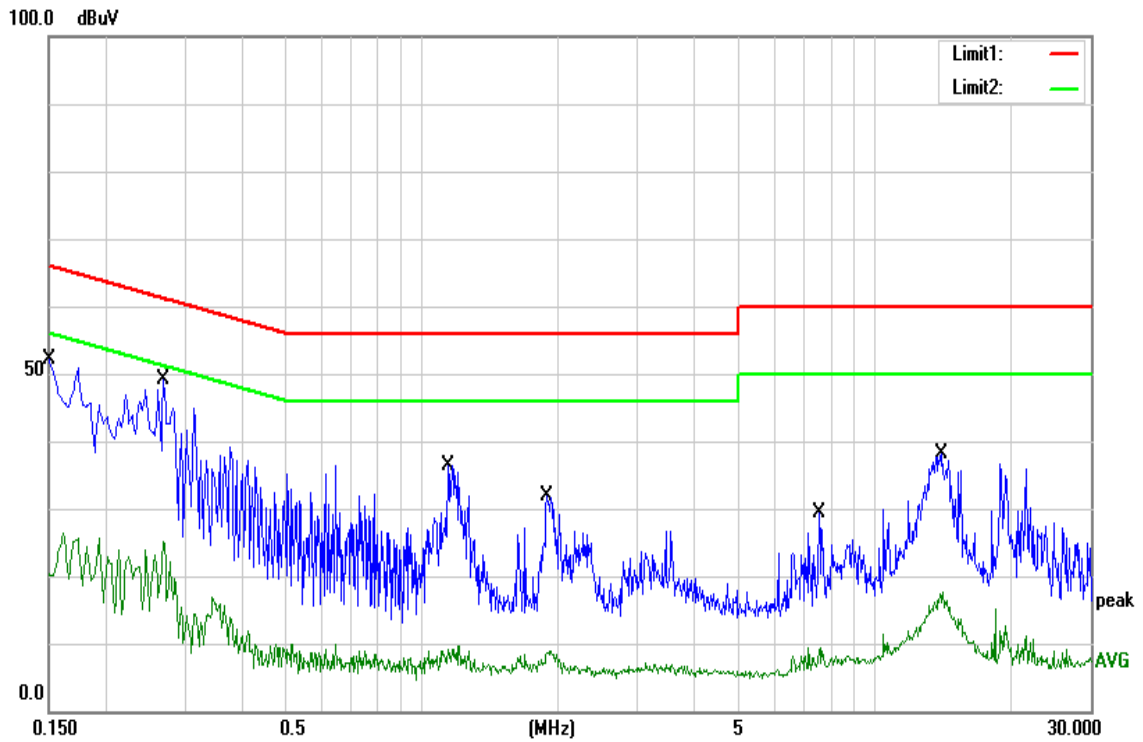


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	40.31	9.79	50.10	66.00	-15.90	QP
2	0.1500	10.42	9.79	20.21	56.00	-35.79	AVG
3	0.3100	37.85	10.21	48.06	59.97	-11.91	QP
4	0.3100	10.97	10.21	21.18	49.97	-28.79	AVG
5	1.1900	34.28	9.80	44.08	56.00	-11.92	QP
6	1.1900	3.83	9.80	13.63	46.00	-32.37	AVG
7	3.3580	22.27	9.82	32.09	56.00	-23.91	QP
8	3.3580	-0.18	9.82	9.64	46.00	-36.36	AVG
9	7.3700	21.27	9.92	31.19	60.00	-28.81	QP
10	7.3700	-1.39	9.92	8.53	50.00	-41.47	AVG
11	13.5140	21.46	10.22	31.68	60.00	-28.32	QP
12	13.5140	1.77	10.22	11.99	50.00	-38.01	AVG



Neutral line:
Peak Scan



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	42.30	9.79	52.09	66.00	-13.91	QP
2	0.1500	10.47	9.79	20.26	56.00	-35.74	AVG
3	0.2700	39.08	10.09	49.17	61.12	-11.95	QP
4	0.2700	14.96	10.09	25.05	51.12	-26.07	AVG
5	1.1460	26.55	9.80	36.35	56.00	-19.65	QP
6	1.1460	-0.56	9.80	9.24	46.00	-36.76	AVG
7	1.8900	22.16	9.78	31.94	56.00	-24.06	QP
8	1.8900	-1.28	9.78	8.50	46.00	-37.50	AVG
9	7.5500	19.37	9.95	29.32	60.00	-30.68	QP
10	7.5500	-0.93	9.95	9.02	50.00	-40.98	AVG
11	14.0780	27.90	10.23	38.13	60.00	-21.87	QP
12	14.0780	7.30	10.23	17.53	50.00	-32.47	AVG



4.5 RADIATED EMISSIONS, 150 KHZ TO 25GHZ

Test Requirement: 47 CFR PART 18
 Test Method: FCC OST/ MP-5
 Power Supply: AC 120V 60Hz
 Test Date: 2018-05-03
 Frequency Range: 150 KHz to 25GHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan, Average for the final result
 100 kHz Resolution Bandwidth for 30MHz to 1,000MHz
 1 MHz Resolution Bandwidth for 1,000MHz to 25,000MHz

Limit: (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)

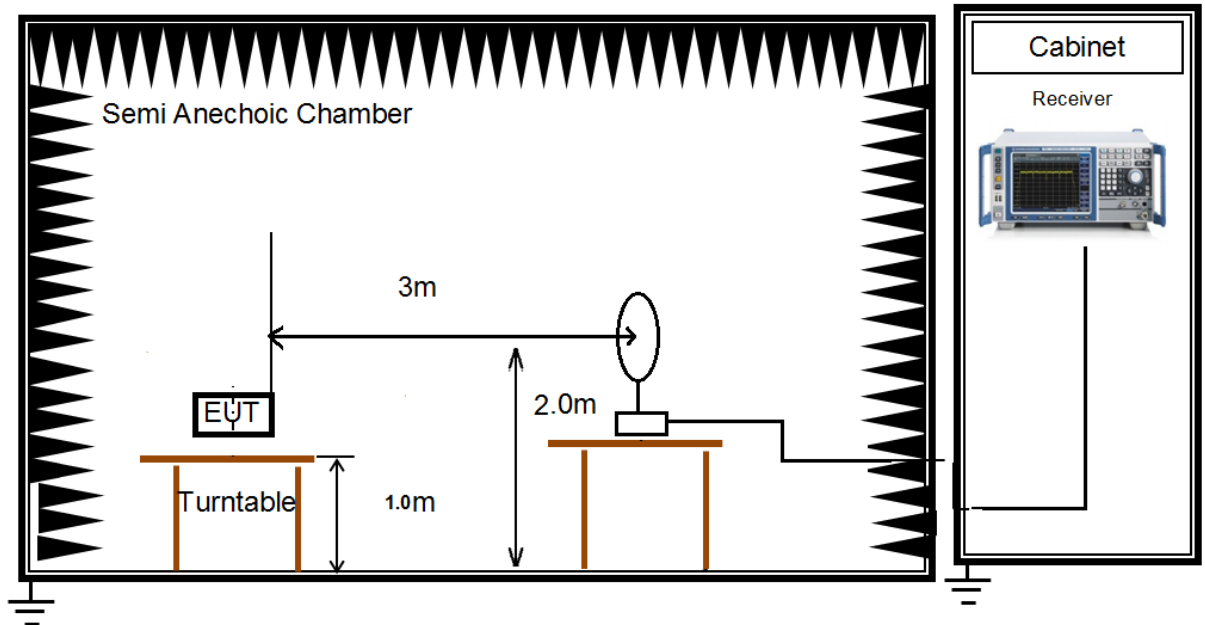
(c) @3m Limit according to cluse4.3
 Power =638.12W
 Limit=20lg(25*SQRT(power/500))+20lg(300/3) @ 3m distance.
 Limit=69.01dBuV

4.5.1 E.U.T. OPERATION

Test the EUT in microwave mode with full power.

4.5.2 TEST SETUP AND PROCEDURE

150 KHz to 30 MHz

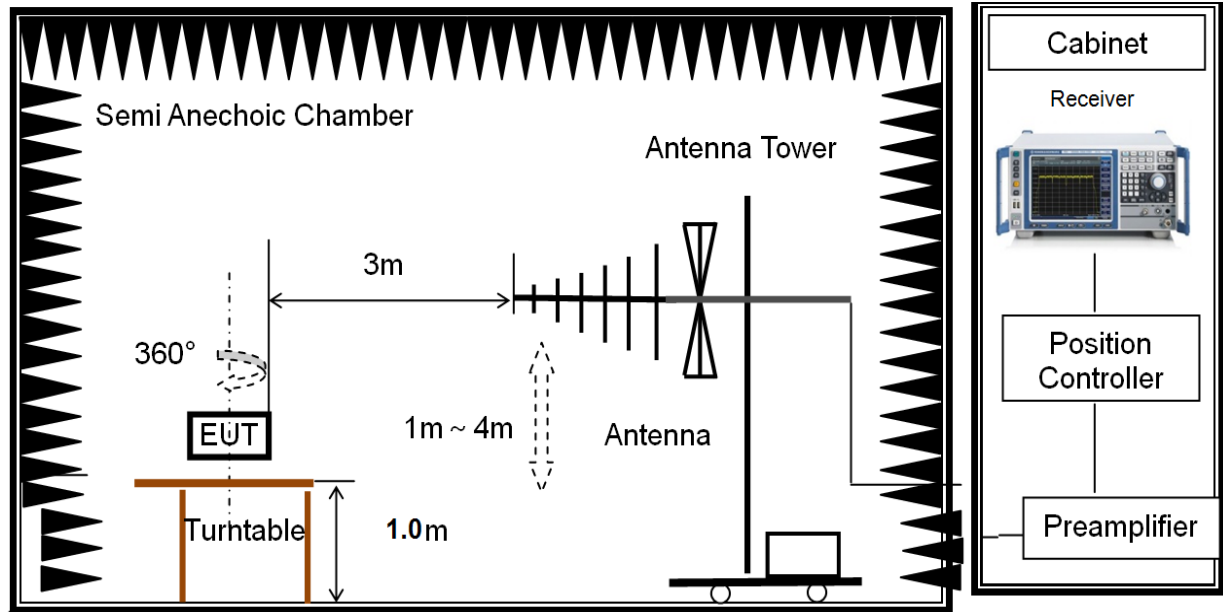


1. The magnetic emissions test was conducted in a semi-anechoic chamber.
2. The EUT was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane.
3. The tabletop EUT was placed upon a non-metallic table 1 m 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 magnetic emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum signature data plots of the EUT.

The frequencies of maximum emission were determined in the final magnetic emissions measurement, The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. At each frequency, the EUT was rotated 360°, the antenna was supported in the vertical plane and be rotatable about a vertical axis. The antenna height was set at around 2 m above the ground reference plane.

30MHz to 1 GHz:

30 MHz to 1 GHz

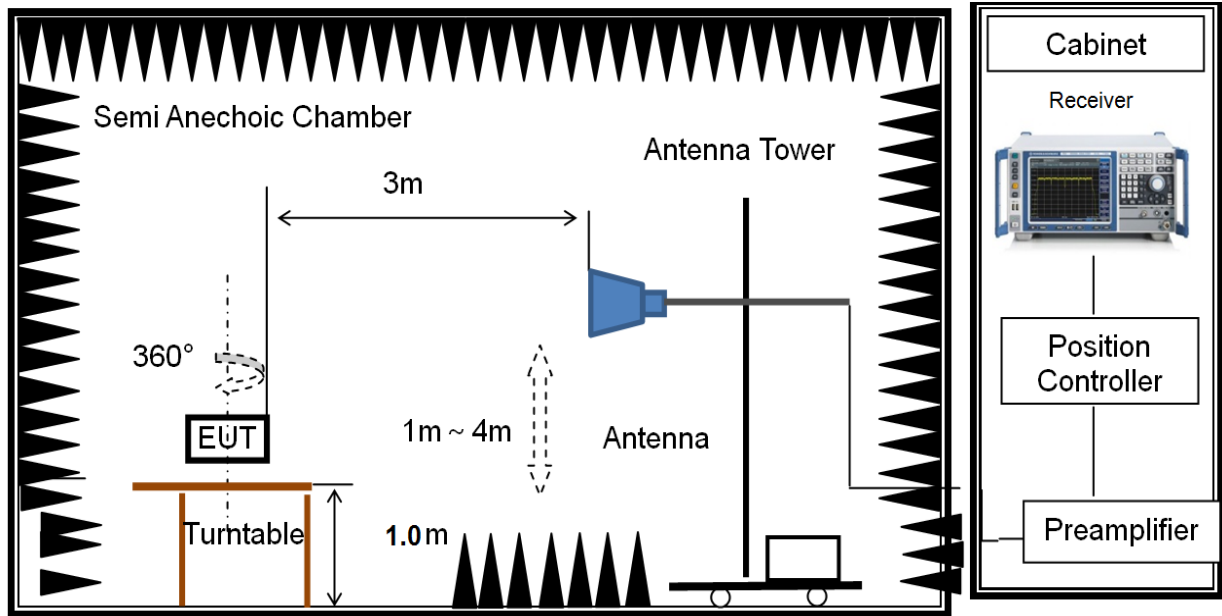


1. The radiated emissions test was conducted in a semi-anechoic chamber.
2. Biconical and log periodic antenna was used for the frequency range from 30MHz to 1GHz
3. The EUT was connected to nominal power supply through a mains power outlet which was bonded to the ground reference plane; The mains cables were draped to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 1.0 m 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 1.0m 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.
5. 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.



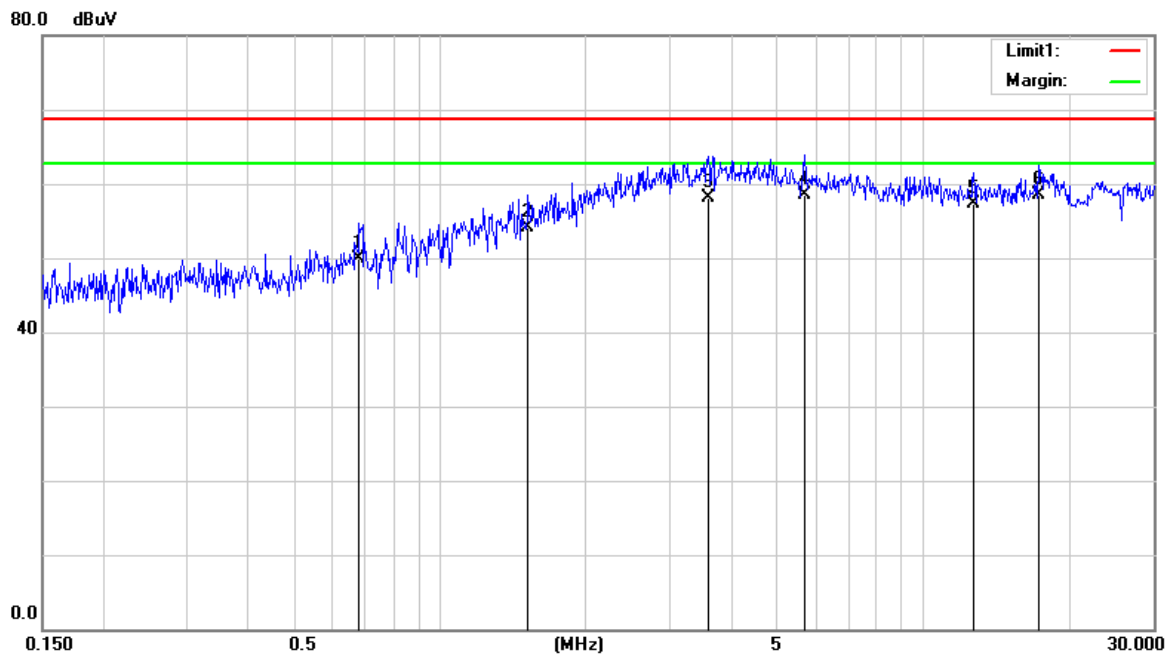
4.5.3 MEASUREMENT DATA

150 KHz to 30 MHz:

Horizontal:

Peak scan

Level (dBμV/m)



Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.6790	28.19	21.78	49.97	69.01	-19.04	AVG
2	1.5193	32.48	21.63	54.11	69.01	-14.90	AVG
3	3.5843	37.51	20.68	58.19	69.01	-10.82	AVG
4	5.6833	39.17	19.39	58.56	69.01	-10.45	AVG
5	12.7161	39.78	17.44	57.22	69.01	-11.79	AVG
6	17.2908	39.78	18.68	58.46	69.01	-10.55	AVG

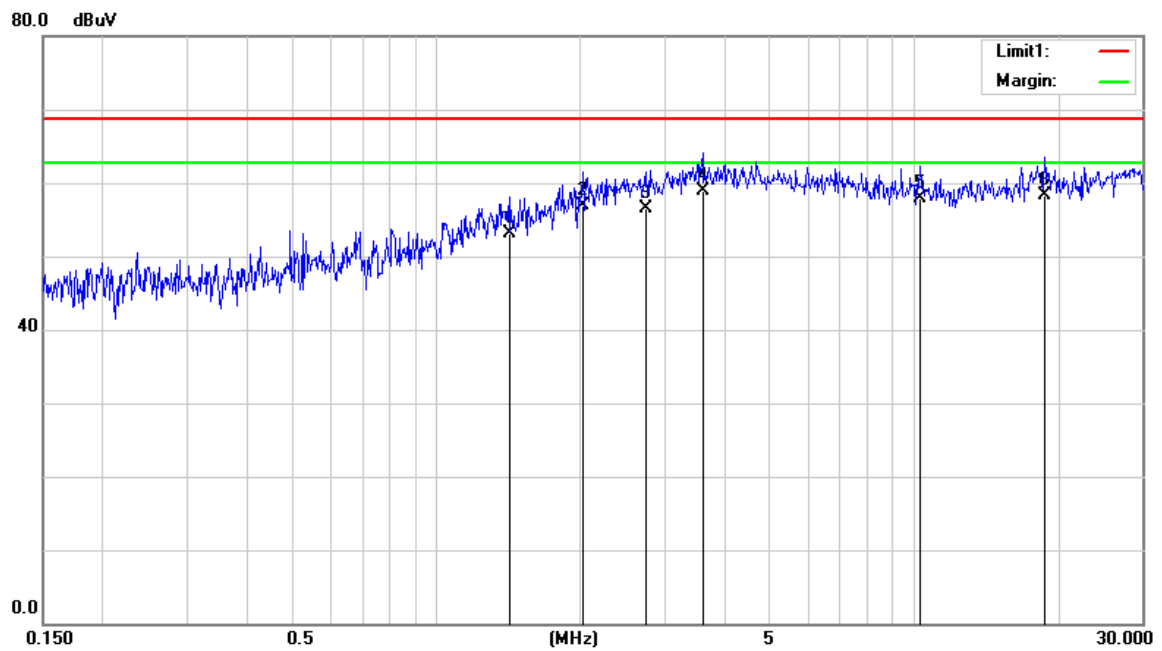


150 KHz to 30 MHz:

Vertical:

Peak scan

Level (dB μ V/m)



Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Reading (dB μ V)	Correct Factor(dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Remark
1	1.4256	31.46	21.72	53.18	69.01	-15.51	AVG
2	2.0225	35.82	21.15	56.97	69.01	-11.72	AVG
3	2.7356	35.60	20.94	56.54	69.01	-12.15	AVG
4	3.6034	38.30	20.68	58.98	69.01	-9.71	AVG
5	10.2876	40.81	17.10	57.91	69.01	-10.78	AVG
6	18.7210	39.19	19.12	58.31	69.01	-10.38	AVG



30 MHz to 1000 MHz:

Vertical:

Peak scan

Level (dB μ V/m)



Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Reading (dB μ V)	Correct Factor(dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Remark
1	37.1550	38.04	-14.86	23.18	69.01	-45.83	AVG
2	56.0007	40.98	-23.19	17.79	69.01	-51.22	AVG
3	104.5361	47.05	-18.81	28.24	69.01	-40.77	AVG
4	245.9508	31.45	-16.91	14.54	69.01	-54.47	AVG
5	449.5558	40.41	-10.52	29.89	69.01	-39.12	AVG
6	714.1734	32.48	-4.84	27.64	69.01	-41.37	AVG

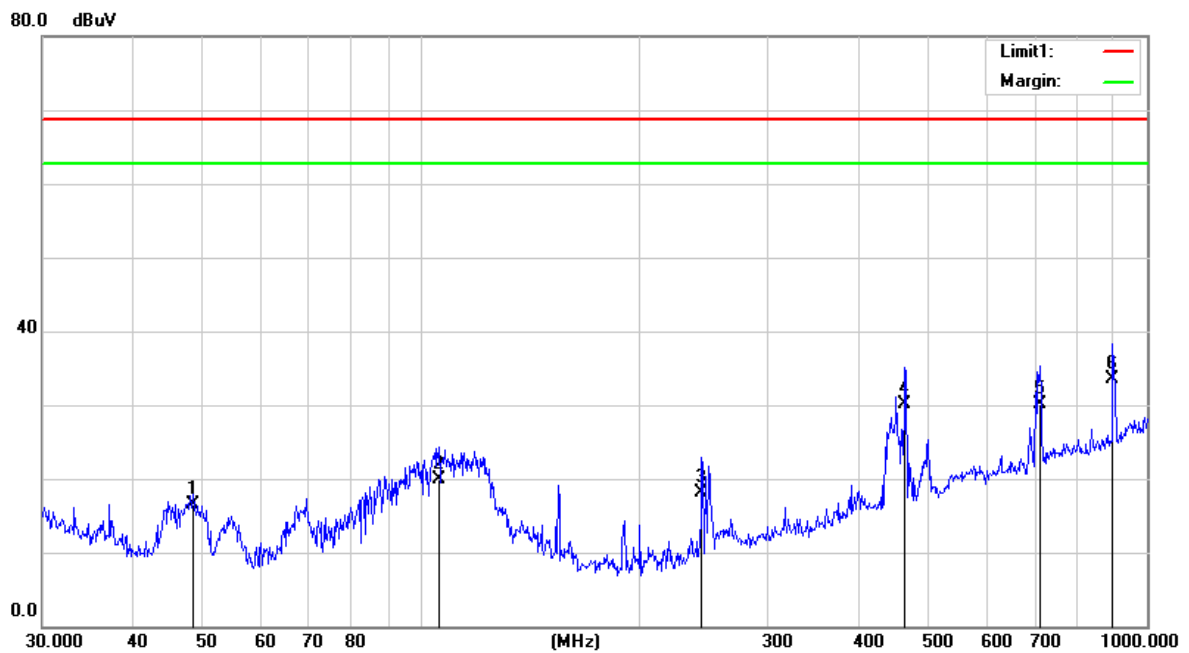


30 MHz to 1000 MHz:

Horizontal:

Peak scan

Level (dB μ V/m)



Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Reading (dB μ V)	Correct Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Remark
1	48.5016	37.29	-20.71	16.58	69.01	-52.43	AVG
2	105.6415	38.58	-18.71	19.87	69.01	-49.14	AVG
3	243.3772	35.41	-17.28	18.13	69.01	-50.88	AVG
4	463.9696	40.63	-10.51	30.12	69.01	-38.89	AVG
5	711.6734	35.03	-4.94	30.09	69.01	-38.92	AVG
6	896.9965	35.86	-2.30	33.56	69.01	-35.45	AVG



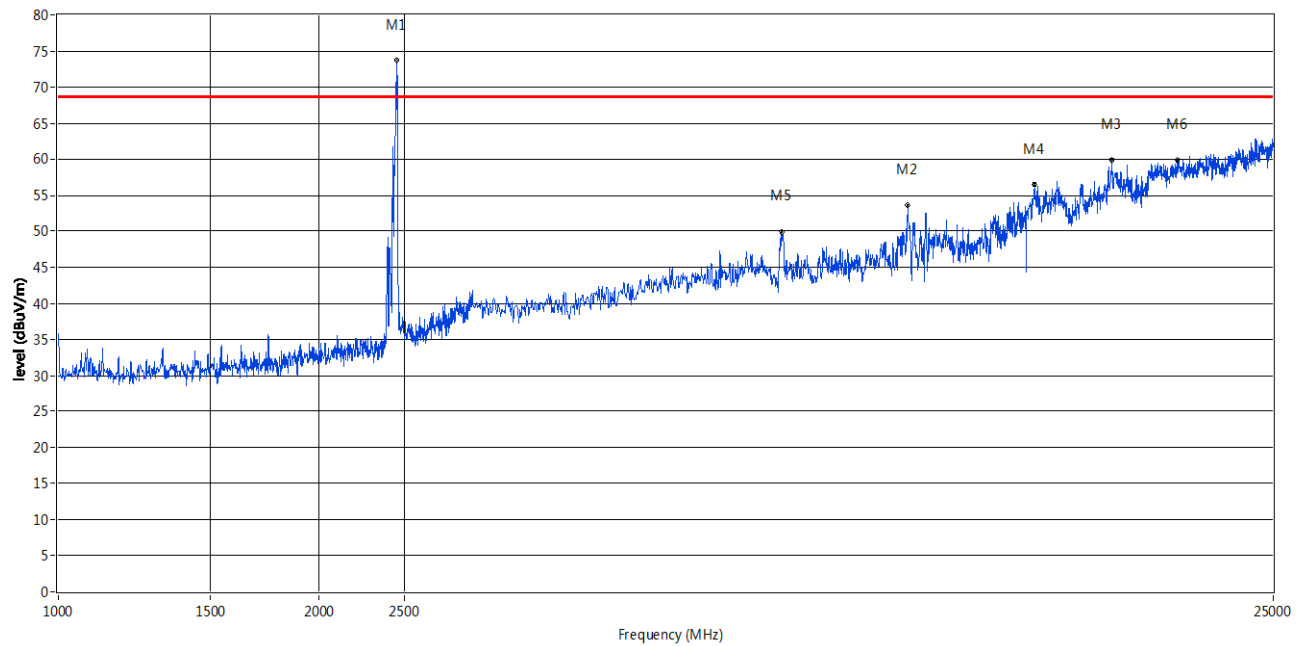
1000MHz to 25000MHz:

Vertical:

Peak scan

Level (dBμV/m)

RE_FCC Test Case_FCC 18 1GHz-25GHz



Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Results (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2454.545	47.51	-13.77	69.01	21.5	AV	1.00	100	Vertical	Pass
2	9503.497	48.61	2.61	69.01	20.4	AV	1.00	100	Vertical	Pass
3	16296.703	54.19	6.58	69.01	14.82	AV	1.00	100	Vertical	Pass
4	13299.700	51.12	2.15	69.01	17.89	AV	2.00	100	Vertical	Pass
5	6796.204	44.99	-4.07	69.01	24.02	AV	4.00	100	Vertical	Pass
6	19413.586	54.95	6.18	69.01	14.06	AV	109.00	100	Vertical	Pass



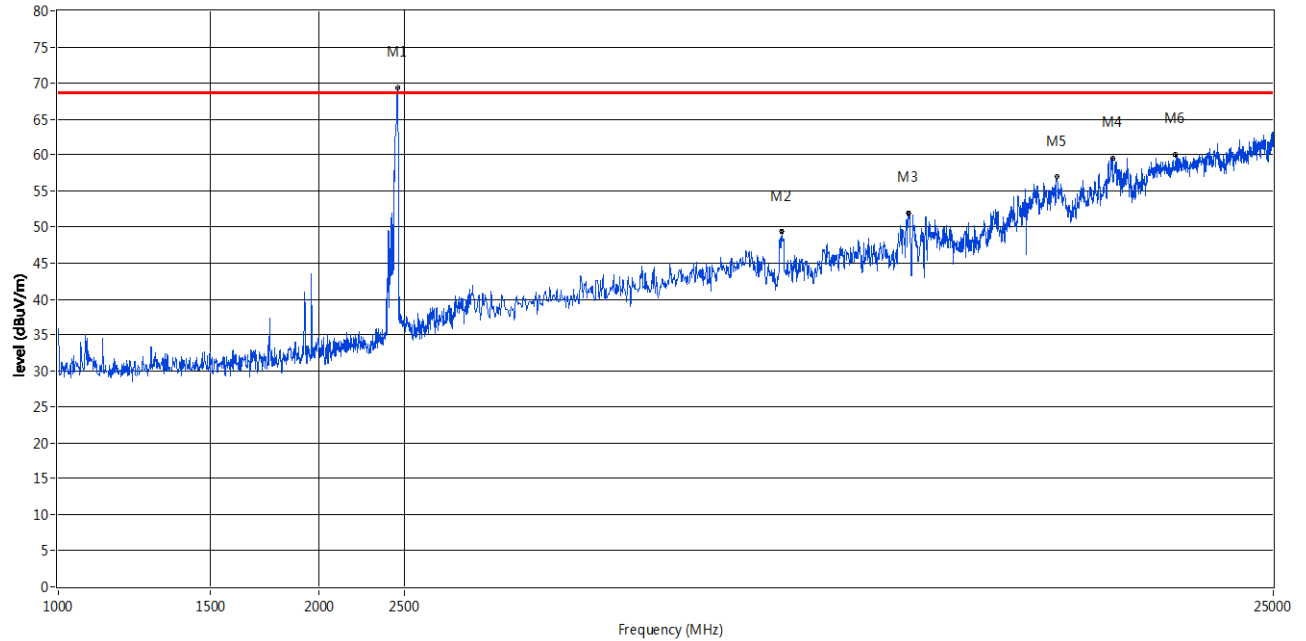
1000MHZ to 25000MHz:

Horizontal:

Peak scan

Level (dB μ V/m)

RE_FCC Test Case_FCC 18 1GHz-25GHz



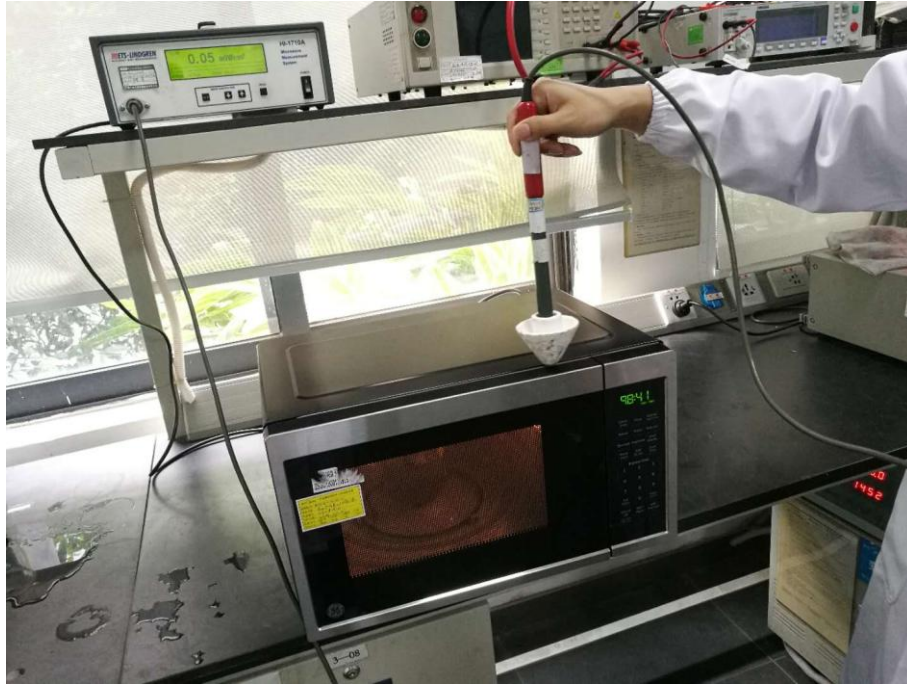
Average measurement

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2458.541	49.31	-13.75	69.01	19.7	AV	5.00	100	Horizontal	Pass
2	6806.194	44.31	-3.99	69.01	24.7	AV	4.00	100	Horizontal	Pass
3	9513.487	56.95	1.63	69.01	12.06	AV	5.00	100	Horizontal	Pass
4	16344.655	53.92	5.70	69.01	15.09	AV	1.00	100	Horizontal	Pass
5	14114.885	51.94	3.96	69.01	17.07	AV	2.00	100	Horizontal	Pass
6	19317.682	54.96	6.17	69.01	14.05	AV	20.00	100	Horizontal	Pass

5 PHOTOGRAPHS

5.1 RADIATION HAZARD



5.2 CONDUCTED EMISSIONS, 150 KHZ TO 30 MHZ TEST SETUP

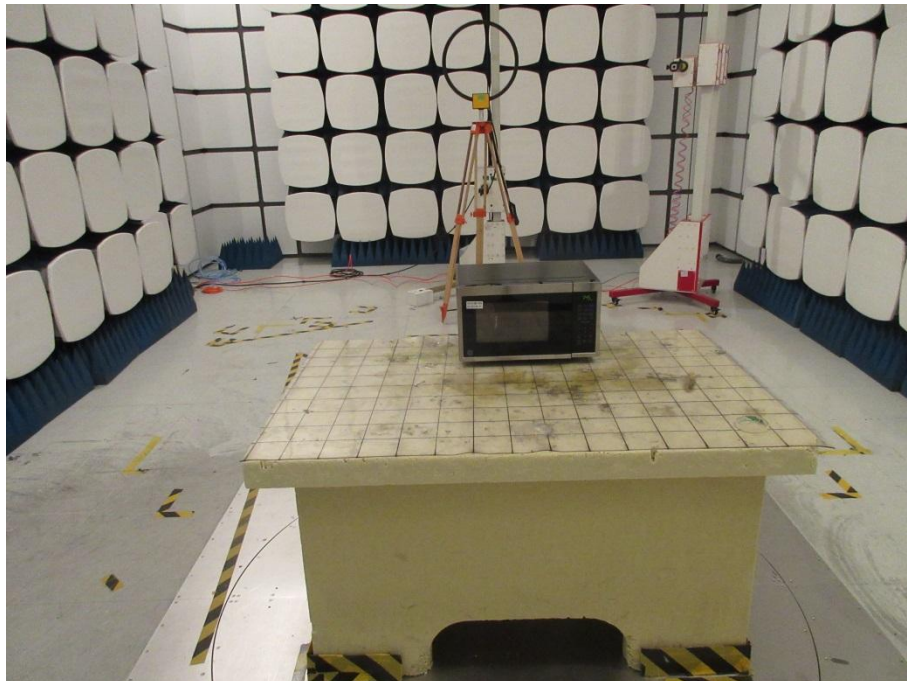


5.3 INPUT & OUTPUT POWER

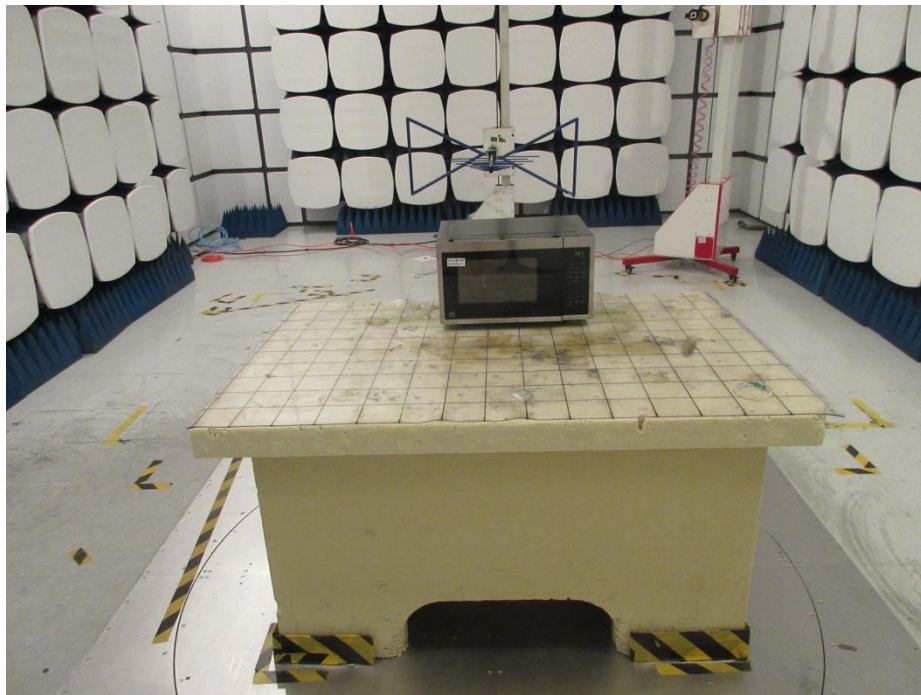


5.4 RADIATED EMISSIONS

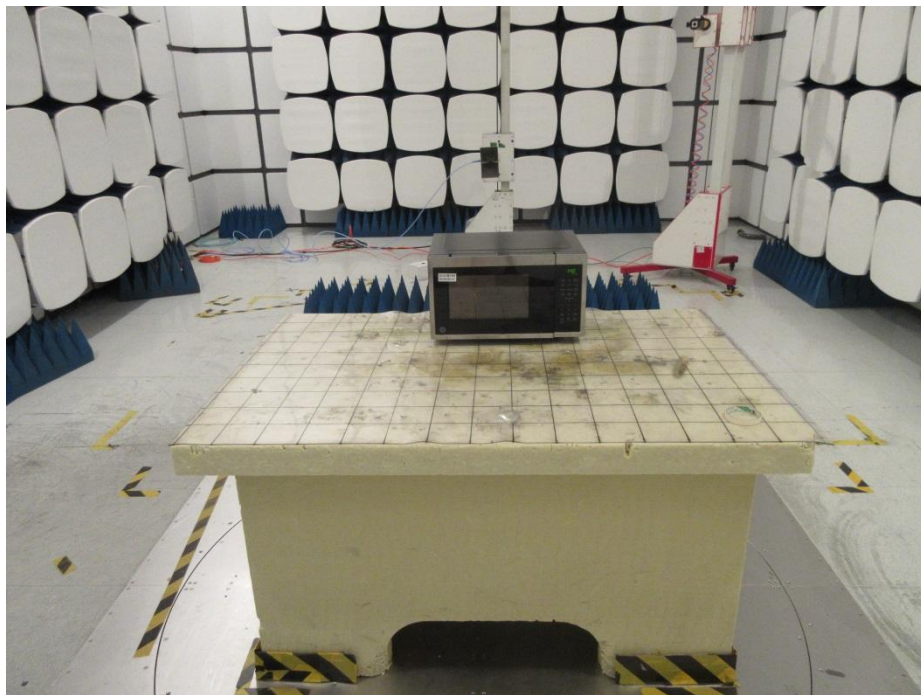
0.15MHz-30MHz



30MHz-1GHz



1GHz-25GHz





5.5 EUT CONSTRUCTIONAL DETAILS

Refer to Appendix

--End of Report--