

TEST REPORT

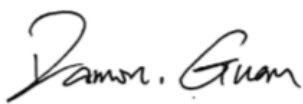
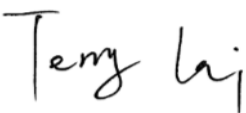
Application No.: GZEM2509006108HS
Applicant: Guangdong Galanz Enterprises Co., Ltd.
Address of Applicant: No. 25 South Ronggui Avenue, Ronggui Street, Shunde District, Foshan City, Guangdong Province, China
Manufacturer: Guangdong Galanz Appliances Manufacturing Co., Ltd.
Address of Manufacturer: No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
Factory: Guangdong Galanz Appliances Manufacturing Co., Ltd.
Address of Factory: No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
Product Name: Microwave oven
Model No.: P110F30APV-WF(L2), SMC1174KS, ZSMC1174KS, SMC1174KSC ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark: Galanz
Standard(s) : 47 CFR Part 18
Date of Receipt: 2025-09-17
Date of Test: 2025-09-22 to 2025-10-09
Date of Issue: 2025-11-21

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Revision Record			
Version	Report No.	Date	Remark
01	GZEM250900610802	2025-11-21	Original

Authorized for issue by:			
			
		Damon Guan/Project Engineer	
Approved By			
		Terry Lai/Reviewer	



2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC/OST MP-5:1986	18.307	Pass
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (30MHz-1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (above 1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Output Power Measurement		FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement		FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test		FCC OST/MP-5:1986	1 mW/cm ²	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣Declaration of EUT Family Grouping:

Model No.: P110F30APV-WF(L2), SMC1174KS, ZSMC1174KS, SMC1174KSC

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore, only one model **P110F30APV-WF(L2)** was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V, 60Hz
Test voltage: AC 120V 60Hz
Microwave frequency: 2450MHz±50MHz
Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

1100mL of water in the beaker for power output and frequency measurement.
One of 770 and the other of 330mL of water for second and third harmonic radiation measurement, just the worst case (770mL) was recorded in this report.
770mL of water for all other measurement

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.22dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)	± 3.12dB
Radiated Emissions (30MHz-1GHz)	5.14dB (30MHz-1GHz):3m; 4.90dB (30MHz-1GHz):10m
Radiated Emissions (above 1GHz)	4.88dB (1GHz-6GHz); 5.06dB (6GHz-18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited 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: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	2m	EMC0107	2025-08-12	2026-08-11
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2025-08-14	2028-08-13
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2025-08-13	2026-08-12
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2025-08-12	2026-08-11

Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-16	2026-04-15
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A



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Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2025-08-11	2026-08-10
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2025-08-11	2026-08-10
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2025-08-12	2026-08-11
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2025-08-12	2026-08-11
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Output Power Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital thermometer	FLUKE	51_2	EMC2200	2025-07-10	2026-07-09
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2024-12-04	2025-12-03
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2024-12-04	2025-12-03
NET.Control	EMTEST	Ver 3.2.3	GZE100-80	N/A	N/A

Operating Frequency Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2025-08-11	2026-08-10
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiation Hazard Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Electric Field Probe(100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2025-05-14	2026-05-13



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC/OST MP-5:1986
Limit:	
Frequency Range:	150kHz to 30MHz
0.15 to 0.5 MHz:	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5 to 5 MHz:	56dB(μV) quasi-peak, 46dB(μV) average
5 to 30 MHz:	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

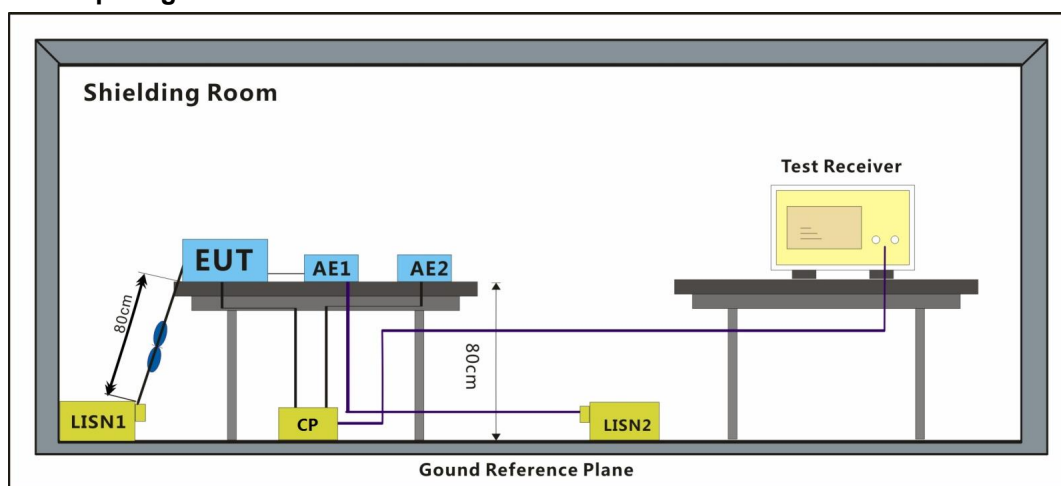
6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.5 °C	Humidity:	53.3 % RH
		Atmospheric Pressure:	1010 mbar

6.1.2 Test Mode Description

Pre-scan / Mode	Code	Description
Final test		
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

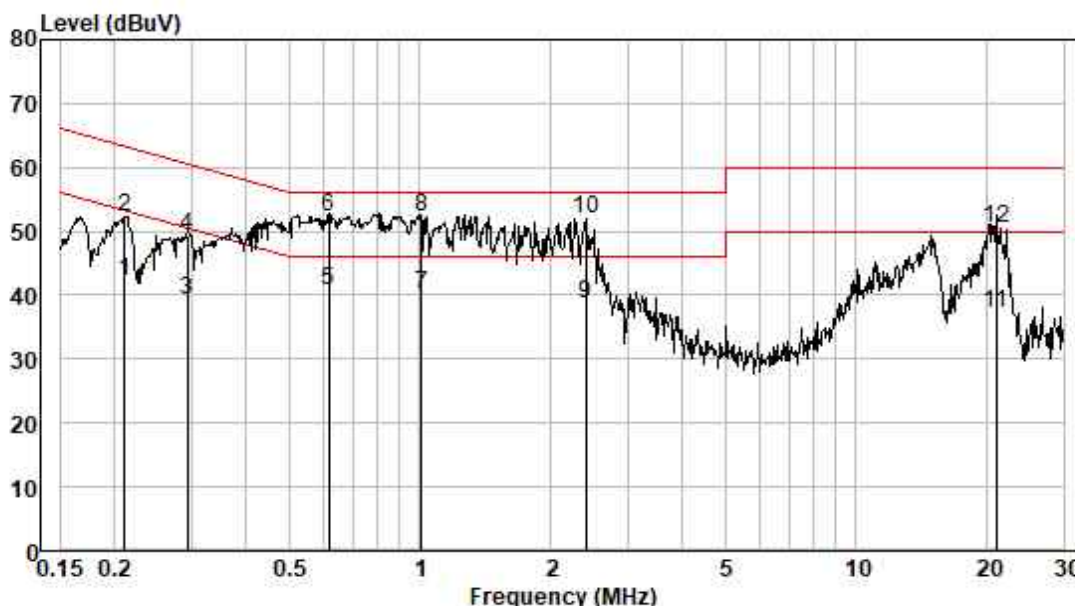
Frequency range: 150KHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor

Test Mode: 00; Line: Live line

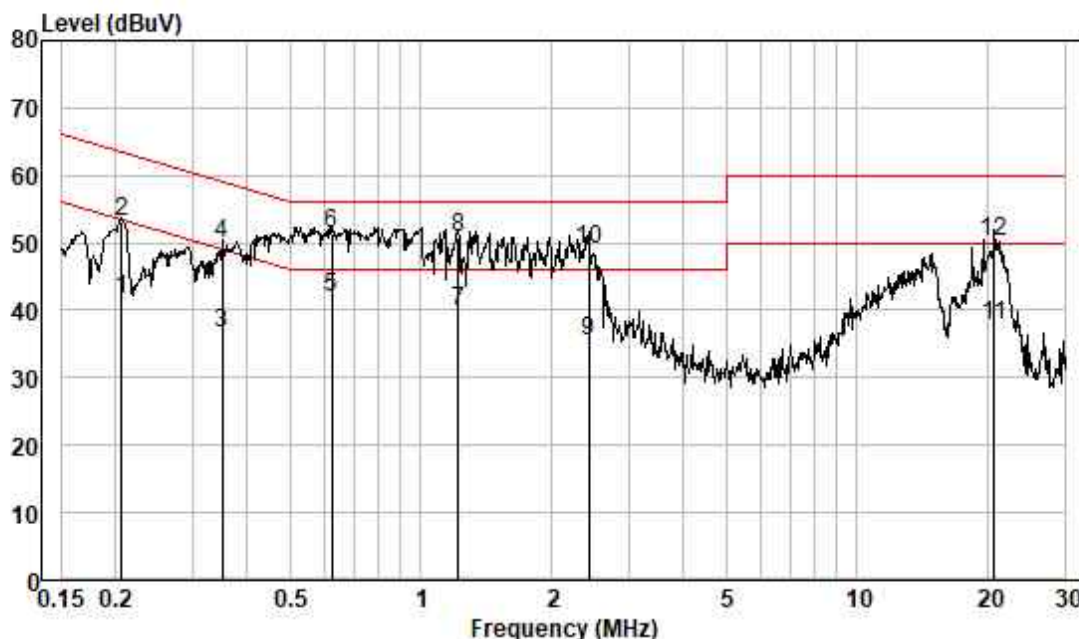


Pol : LINE
Mode :
Model :
Power : 120V 60HZ

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.211	32.55	0.04	9.56	42.15	53.18	-11.03	Average
2	0.211	42.64	0.04	9.56	52.24	63.18	-10.94	QP
3	0.292	29.67	0.04	9.55	39.26	50.46	-11.20	Average
4	0.292	39.68	0.04	9.55	49.27	60.46	-11.19	QP
5	0.617	31.20	0.06	9.55	40.81	46.00	-5.19	Average
6	0.617	42.61	0.06	9.55	52.22	56.00	-3.78	QP
7	1.010	30.62	0.07	9.54	40.23	46.00	-5.77	Average
8	1.010	42.59	0.07	9.54	52.20	56.00	-3.80	QP
9	2.396	29.06	0.14	9.56	38.76	46.00	-7.24	Average
10	2.396	42.27	0.14	9.56	51.97	56.00	-4.03	QP
11	20.924	26.85	0.39	9.82	37.06	50.00	-12.94	Average
12	20.924	40.40	0.39	9.82	50.61	60.00	-9.39	QP



Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :
Power : 120V 60HZ

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.206	31.91	0.04	9.55	41.50	53.36	-11.86	Average
2	0.206	43.51	0.04	9.55	53.10	63.36	-10.26	QP
3	0.350	26.91	0.05	9.51	36.47	48.96	-12.49	Average
4	0.350	40.48	0.05	9.51	50.04	58.96	-8.92	QP
5	0.624	32.39	0.06	9.56	42.01	46.00	-3.99	Average
6	0.624	41.82	0.06	9.56	51.44	56.00	-4.56	QP
7	1.216	30.19	0.09	9.56	39.84	46.00	-6.16	Average
8	1.216	41.08	0.09	9.56	50.73	56.00	-5.27	QP
9	2.422	25.82	0.14	9.57	35.53	46.00	-10.47	Average
10	2.422	39.39	0.14	9.57	49.10	56.00	-6.90	QP
11	20.594	27.42	0.39	9.90	37.71	50.00	-12.29	Average
12	20.594	40.00	0.39	9.90	50.29	60.00	-9.71	QP



6.2 Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Limit:
 Measurement Distance: 10 m
 Frequency Range: 9kHz to 30MHz
 Detector: Peak for pre-scan, Average for the final result
 (200Hz Resolution Bandwidth for 9kHz to 150kHz;
 9kHz Resolution Bandwidth for 150kHz to 30MHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	1050.8	Limit=20lg(25*SQRT(power/500))+20lg(300/10)= 60.73 dBuV/m @ 10m distance.

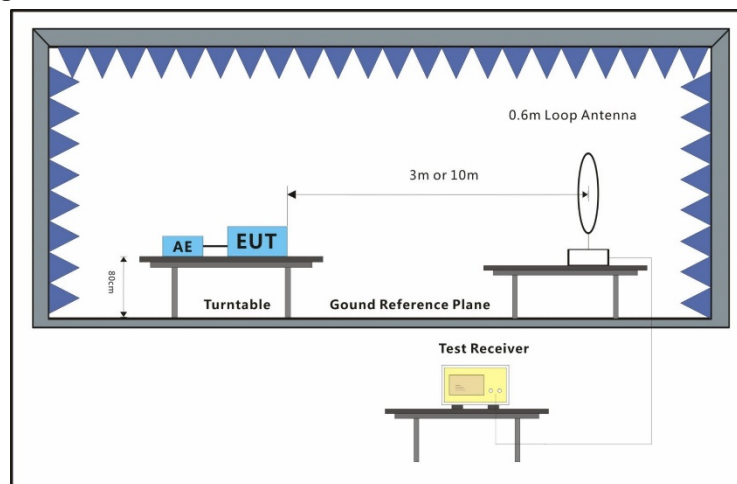
6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 55.7 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

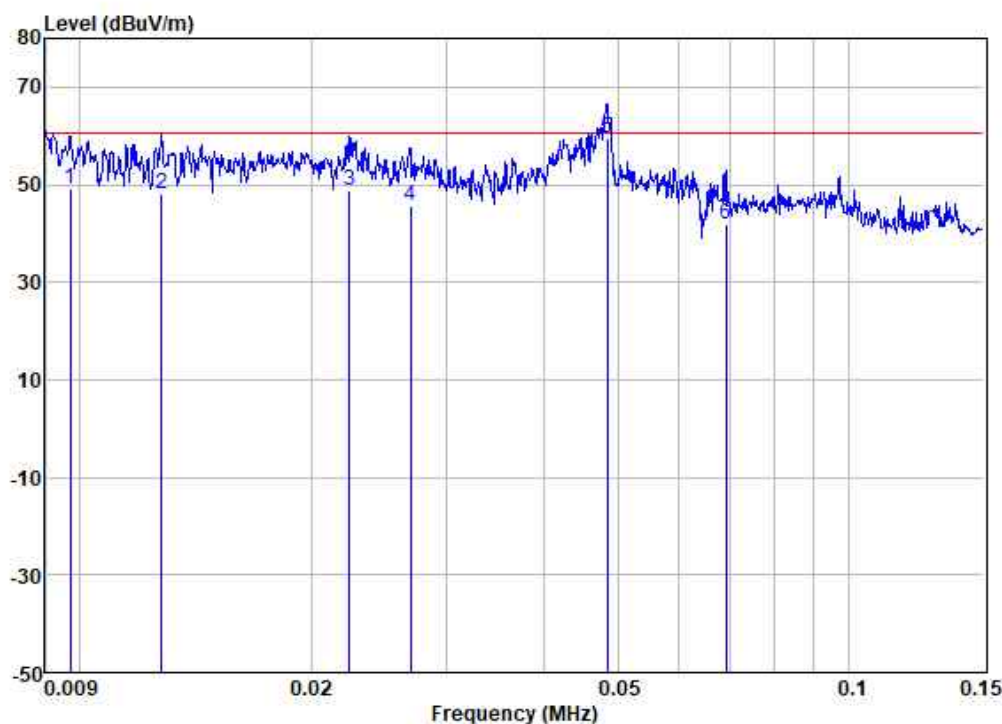
Frequency range: 9KHz-30MHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	58.27	18.74	0.01	28.02	49.00	60.73	-11.73	HORIZONTAL	Average
2	0.013	59.09	17.21	0.01	28.09	48.22	60.73	-12.51	HORIZONTAL	Average
3	0.022	63.31	13.95	0.01	28.34	48.93	60.73	-11.80	HORIZONTAL	Average
4	0.027	60.88	13.18	0.02	28.52	45.56	60.73	-15.17	HORIZONTAL	Average
5	0.049	76.70	12.22	0.03	29.28	59.67	60.73	-1.06	HORIZONTAL	Average
6	0.069	59.35	12.02	0.03	29.41	41.99	60.73	-18.74	HORIZONTAL	Average



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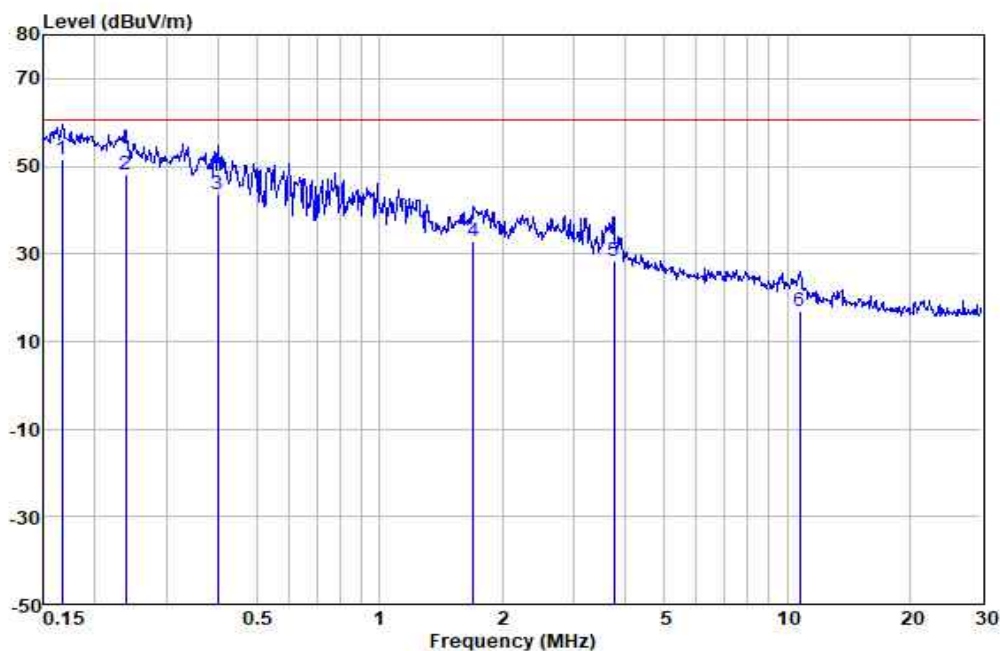
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Test Mode: 00; Polarity: Horizontal

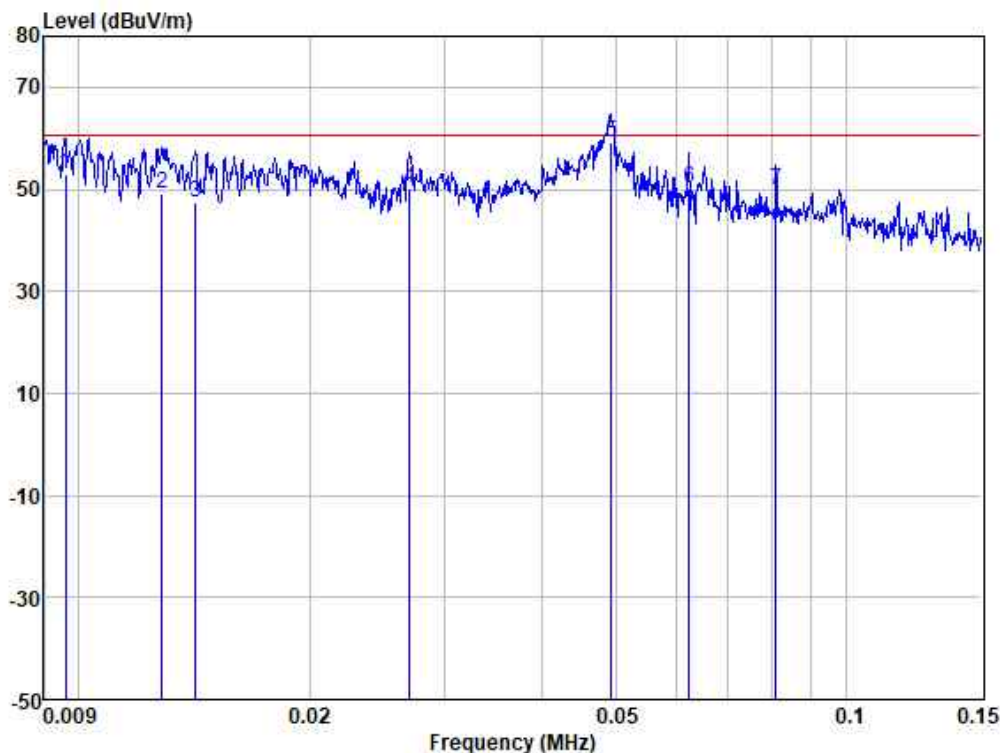


Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.166	69.11	11.87	0.04	29.50	51.52	60.73	-9.21	HORIZONTAL	Average
2	0.238	65.65	11.86	0.04	29.49	48.06	60.73	-12.67	HORIZONTAL	Average
3	0.400	61.04	11.86	0.07	29.41	43.56	60.73	-17.17	HORIZONTAL	Average
4	1.698	50.22	11.84	0.10	29.40	32.76	60.73	-27.97	HORIZONTAL	Average
5	3.759	45.86	11.69	0.21	29.40	28.36	60.73	-32.37	HORIZONTAL	Average
6	10.733	35.54	10.45	0.28	29.30	16.97	60.73	-43.76	HORIZONTAL	Average



Test Mode: 00; Polarity: Vertical

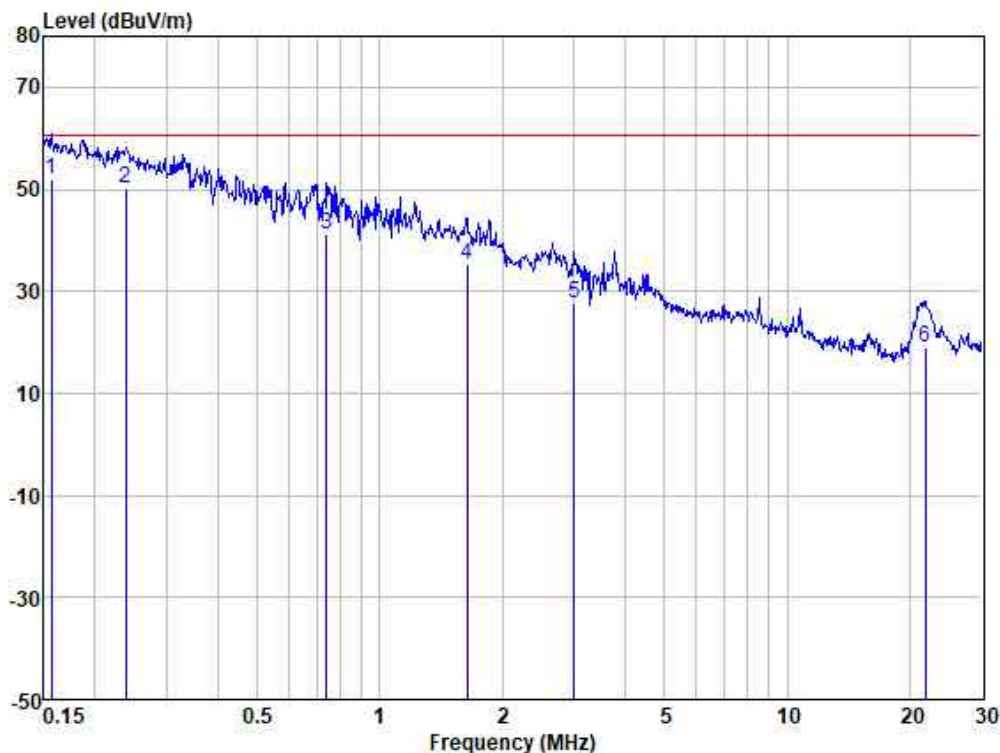


Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	62.12	18.77	0.01	28.01	52.89	60.73	-7.84	VERTICAL	Average
2	0.013	60.12	17.13	0.01	28.09	49.17	60.73	-11.56	VERTICAL	Average
3	0.014	59.77	15.87	0.01	28.12	47.53	60.73	-13.20	VERTICAL	Average
4	0.027	65.47	13.18	0.02	28.52	50.15	60.73	-10.58	VERTICAL	Average
5	0.049	76.10	12.21	0.03	29.29	59.05	60.73	-1.68	VERTICAL	Average
6	0.062	67.52	12.08	0.03	29.38	50.25	60.73	-10.48	VERTICAL	Average
7	0.081	67.17	11.98	0.03	29.45	49.73	60.73	-11.00	VERTICAL	Average



Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.156	69.61	11.88	0.03	29.50	52.02	60.73	-8.71	VERTICAL	Average
2	0.238	67.61	11.86	0.04	29.49	50.02	60.73	-10.71	VERTICAL	Average
3	0.739	58.78	11.83	0.08	29.40	41.29	60.73	-19.44	VERTICAL	Average
4	1.636	52.72	11.84	0.10	29.40	35.26	60.73	-25.47	VERTICAL	Average
5	3.009	45.18	11.84	0.16	29.40	27.78	60.73	-32.95	VERTICAL	Average
6	21.830	39.42	8.37	0.38	29.20	18.97	60.73	-41.76	VERTICAL	Average



6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Limit:
 Measurement Distance: 3 m
 Frequency Range: 30 MHz to 1 GHz
 Detector: Peak for pre-scan, average for the final result
 (120 kHz Resolution Bandwidth for 30 MHz to 1 GHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	1050.8	Limit=20lg(25*SQRT(1050.8/500))+20lg(300/3)= 71.18 dBuV/m @ 3m distance.

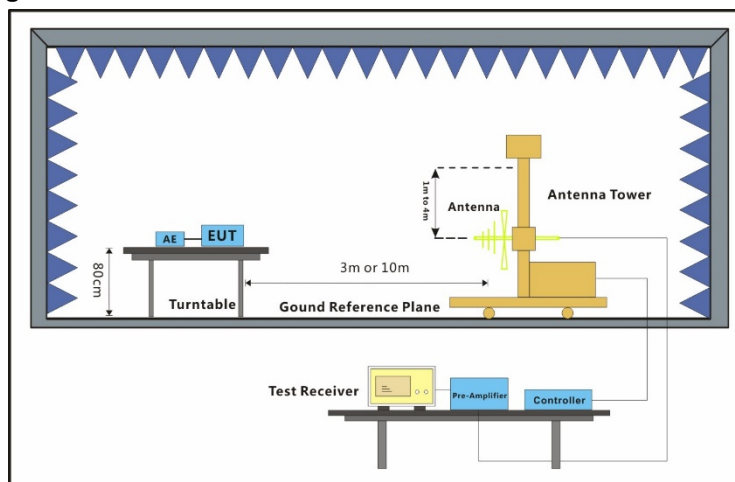
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.3 °C Humidity: 56.4 % RH Atmospheric Pressure: 1008 mbar

6.3.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.
Pre-scan 01	Test the EUT in microwave mode with middle power.
Pre-scan 02	Test the EUT in microwave mode with lowest power.

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

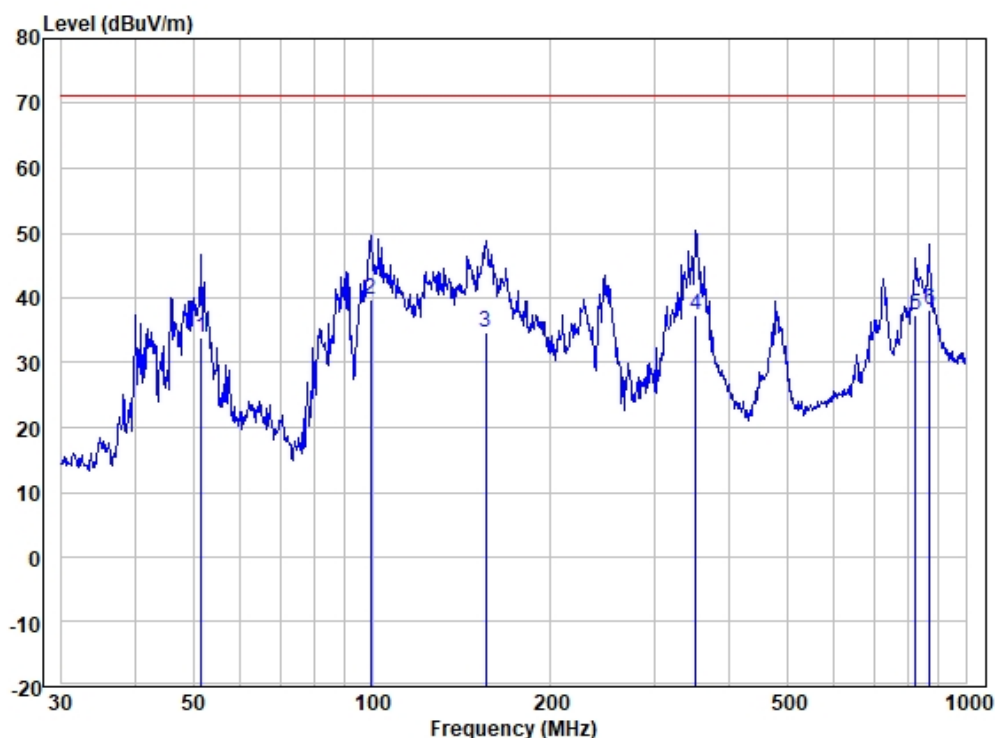
Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Horizontal

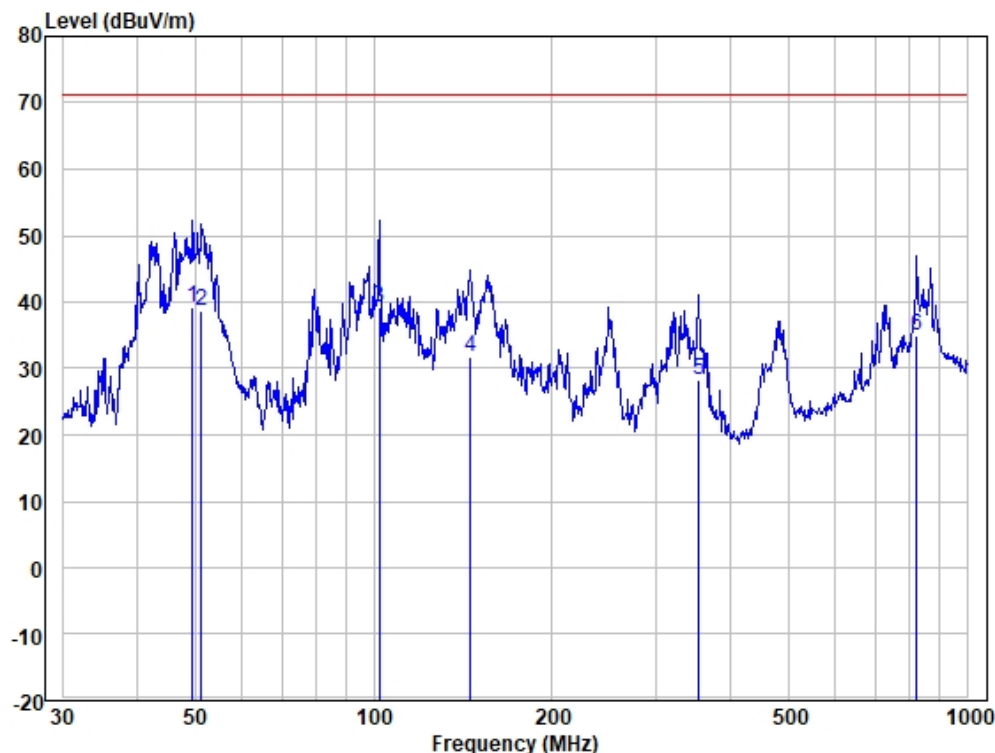


Site : 966 Chamber
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	51.662	46.56	19.62	0.39	32.79	33.78	71.18	-37.40	HORIZONTAL	Average
2	99.528	57.07	14.69	0.54	32.70	39.60	71.18	-31.58	HORIZONTAL	Average
3	155.364	47.68	19.18	0.69	32.77	34.78	71.18	-36.40	HORIZONTAL	Average
4	350.477	48.92	20.20	1.07	32.88	37.31	71.18	-33.87	HORIZONTAL	Average
5	821.710	38.01	29.10	1.67	31.56	37.22	71.18	-33.96	HORIZONTAL	Average
6	869.130	39.31	28.53	1.74	31.41	38.17	71.18	-33.01	HORIZONTAL	Average



Test Mode: 00; Polarity: Vertical



Site : 966 chamber
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dBs/m	dB	dB	dBuA/m	dBuA/m	dB		
1	49.533	52.06	19.65	0.39	32.79	39.31	71.18	-31.87	VERTICAL	Average
2	51.301	51.50	19.62	0.39	32.79	38.72	71.18	-32.46	VERTICAL	Average
3	102.360	56.12	15.19	0.54	32.70	39.15	71.18	-32.03	VERTICAL	Average
4	145.861	44.87	18.97	0.66	32.74	31.76	71.18	-39.42	VERTICAL	Average
5	352.943	39.72	20.27	1.08	32.88	28.19	71.18	-42.99	VERTICAL	Average
6	821.710	35.68	29.10	1.67	31.56	34.89	71.18	-36.29	VERTICAL	Average



6.4 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Limit:
 Measurement Distance: 3 m
 Frequency Range: Above 1GHz
 Detector: Peak for pre-scan, Average for the final result
 (1MHz Resolution Bandwidth for 1000MHz Above)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	1050.8	Limit= $20\lg(25*\sqrt{1050.8/500})+20\lg(300/3)=71.18$ dBuV/m @ 3m distance.

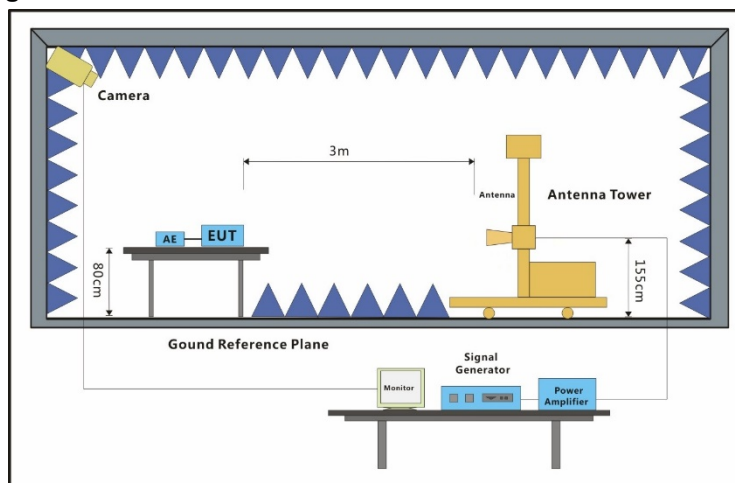
6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 61.7 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

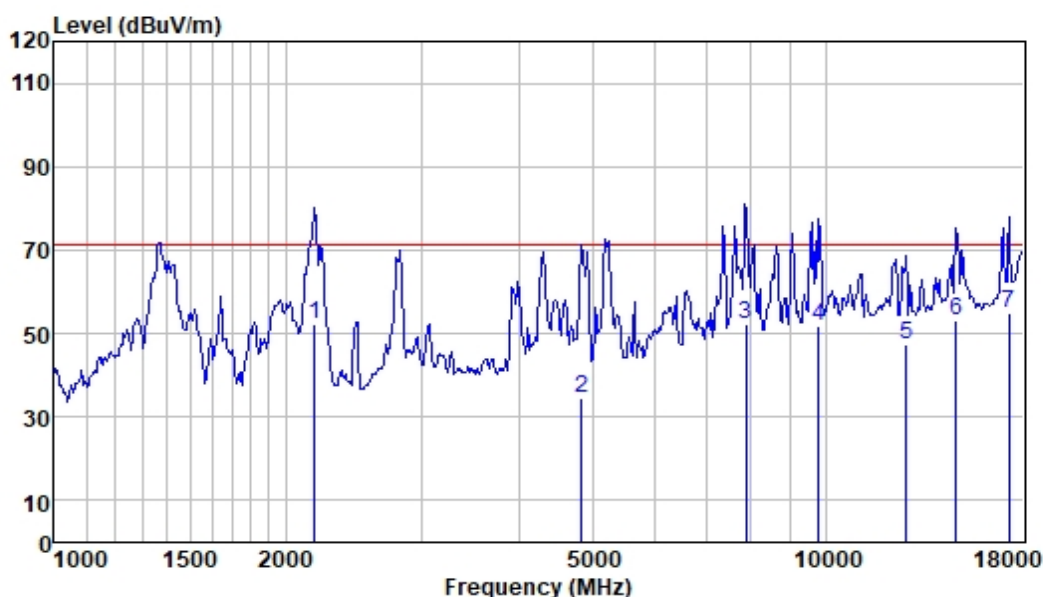
Frequency range: Above 1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

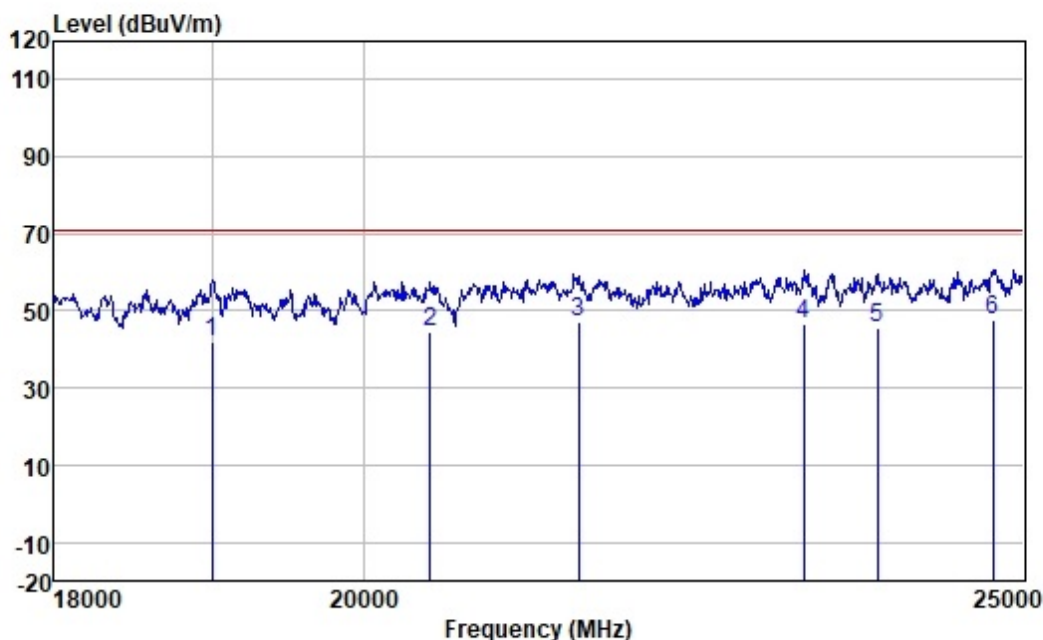
Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2176.047	59.81	26.98	3.23	37.79	52.23	71.18	-18.95	VERTICAL	Average
2	4826.490	35.38	31.56	4.83	37.37	34.40	71.18	-36.78	VERTICAL	Average
3	7880.356	46.13	37.13	6.17	37.20	52.23	71.18	-18.95	VERTICAL	Average
4	9809.916	42.71	38.95	7.14	37.10	51.70	71.18	-19.48	VERTICAL	Average
5	12724.470	36.88	39.44	8.03	36.85	47.50	71.18	-23.68	VERTICAL	Average
6	14788.150	38.66	42.17	8.79	36.51	53.11	71.18	-18.07	VERTICAL	Average
7	17286.170	38.51	43.12	9.52	36.41	54.74	71.18	-16.44	VERTICAL	Average



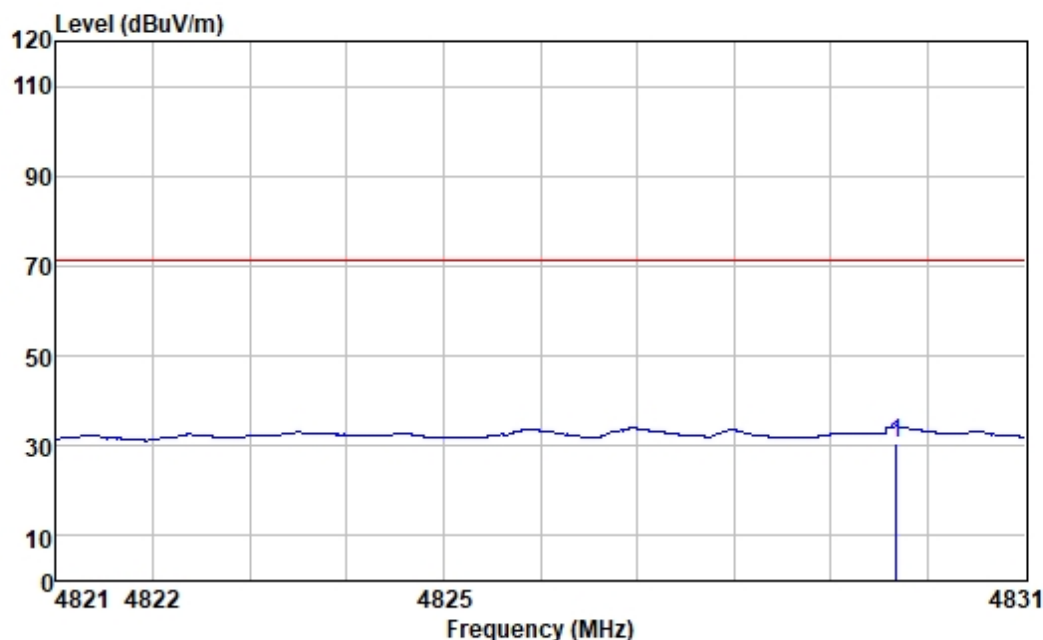
Test Mode: 00; Polarity: Vertical



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18990.100	40.95	37.09	3.22	39.31	41.95	71.18	-29.23	VERTICAL	Average
2	20446.900	44.03	37.29	3.10	39.71	44.71	71.18	-26.47	VERTICAL	Average
3	21507.910	45.43	37.60	3.28	39.37	46.94	71.18	-24.24	VERTICAL	Average
4	23211.180	43.00	38.54	3.35	38.13	46.76	71.18	-24.42	VERTICAL	Average
5	23797.970	41.11	38.67	3.43	37.84	45.37	71.18	-25.81	VERTICAL	Average
6	24754.830	45.09	38.98	3.39	39.73	47.73	71.18	-23.45	VERTICAL	Average



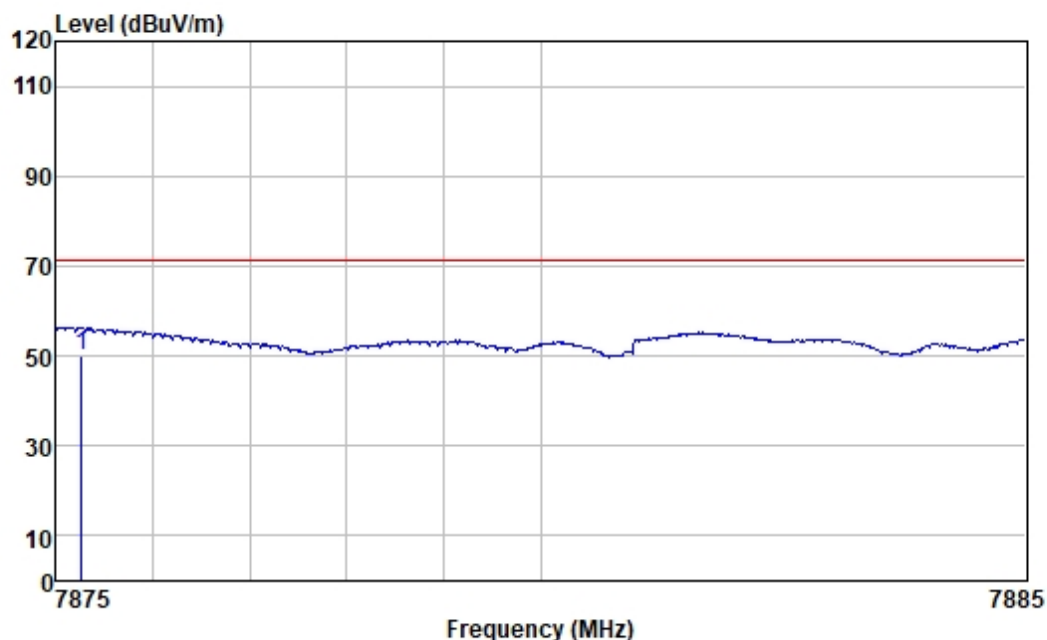
Test Mode: 00; Polarity: Vertical



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4829.679	31.34	31.56	4.83	37.37	30.36	71.18	-40.82	VERTICAL
									Average



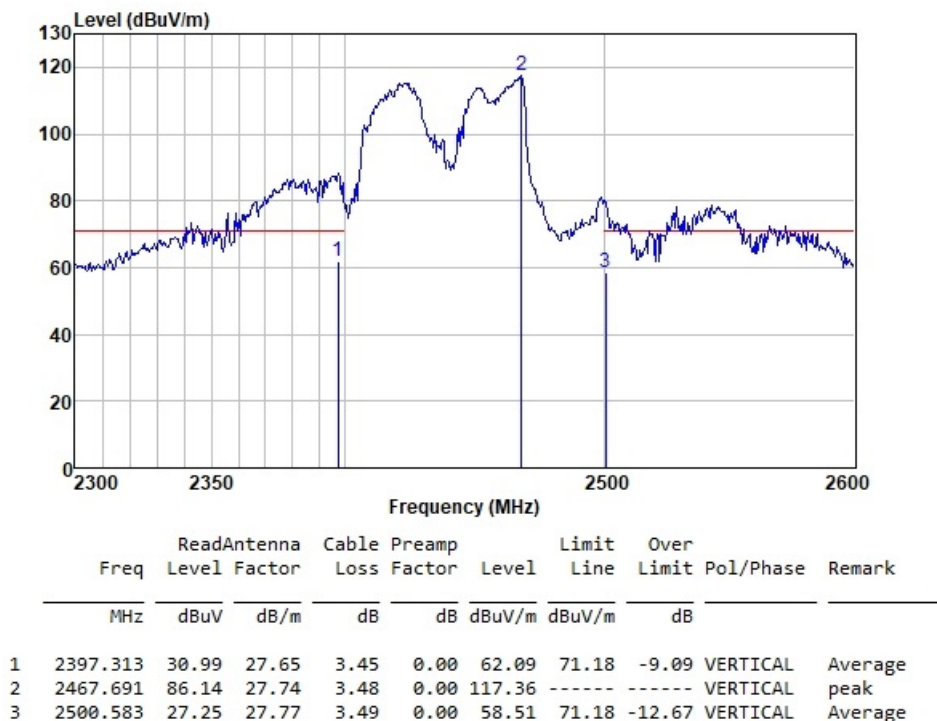
Test Mode: 00; Polarity: Vertical



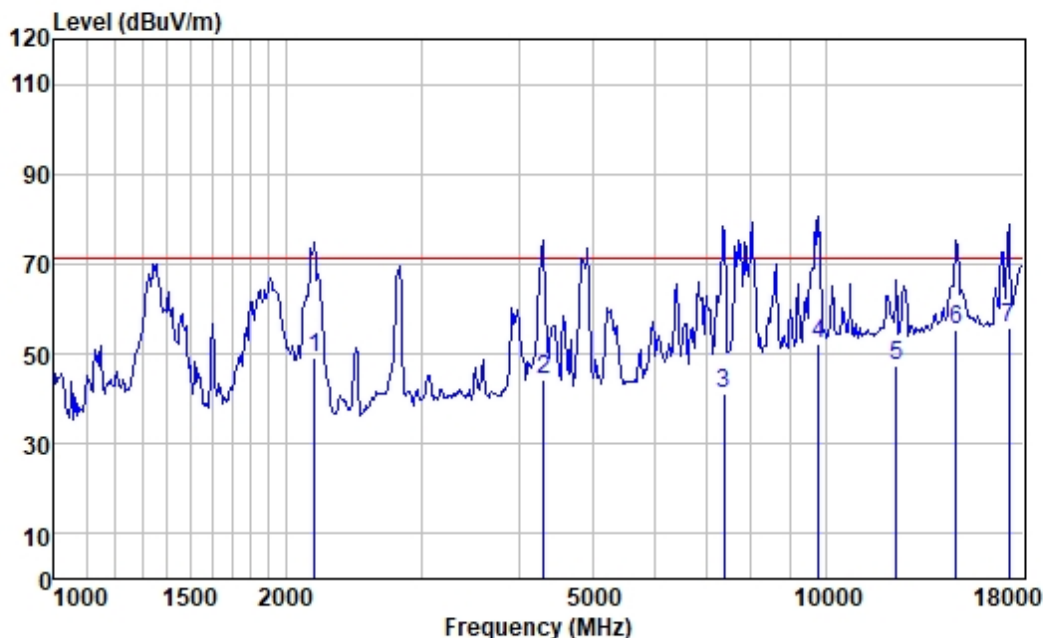
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	7875.260	44.14	37.13	6.17	37.20	50.24	71.18	-20.94	VERTICAL
									Average



Test Mode: 00; Polarity: Vertical



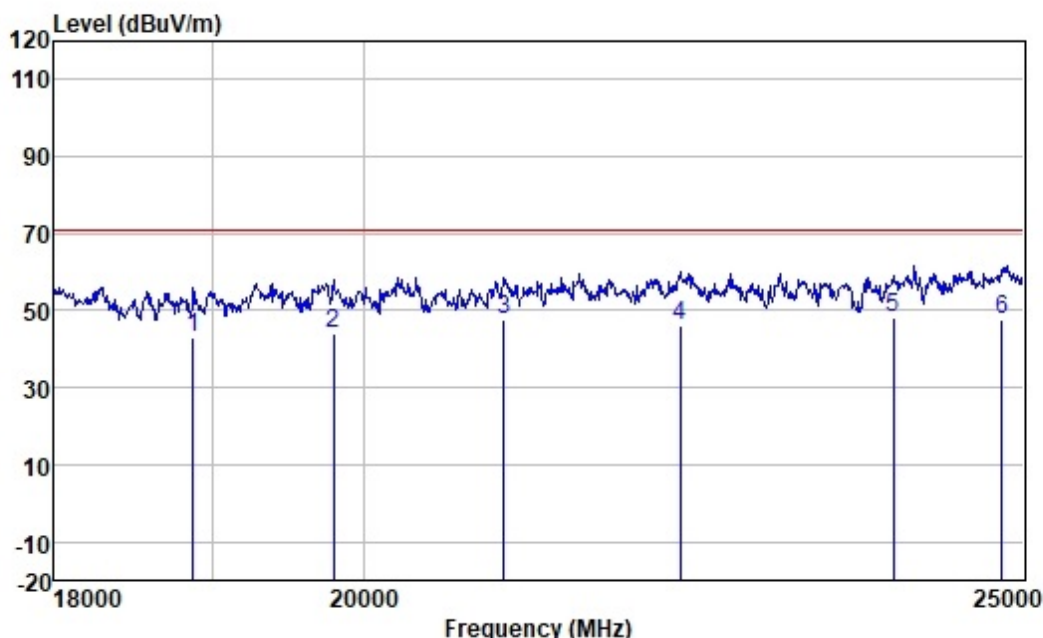
Test Mode: 00; Polarity: Horizontal



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2176.047	56.61	26.98	3.23	37.79	49.03	71.18	-22.15	HORIZONTAL	Average
4315.322	46.69	30.65	4.59	37.47	44.46	71.18	-26.72	HORIZONTAL	Average
7393.951	35.90	36.47	6.00	37.18	41.19	71.18	-29.99	HORIZONTAL	Average
9809.916	43.39	38.95	7.14	37.10	52.38	71.18	-18.80	HORIZONTAL	Average
12361.950	37.00	39.26	7.89	36.88	47.27	71.18	-23.91	HORIZONTAL	Average
14788.150	40.79	42.17	8.79	36.51	55.24	71.18	-15.94	HORIZONTAL	Average
17286.170	39.58	43.12	9.52	36.41	55.81	71.18	-15.37	HORIZONTAL	Average



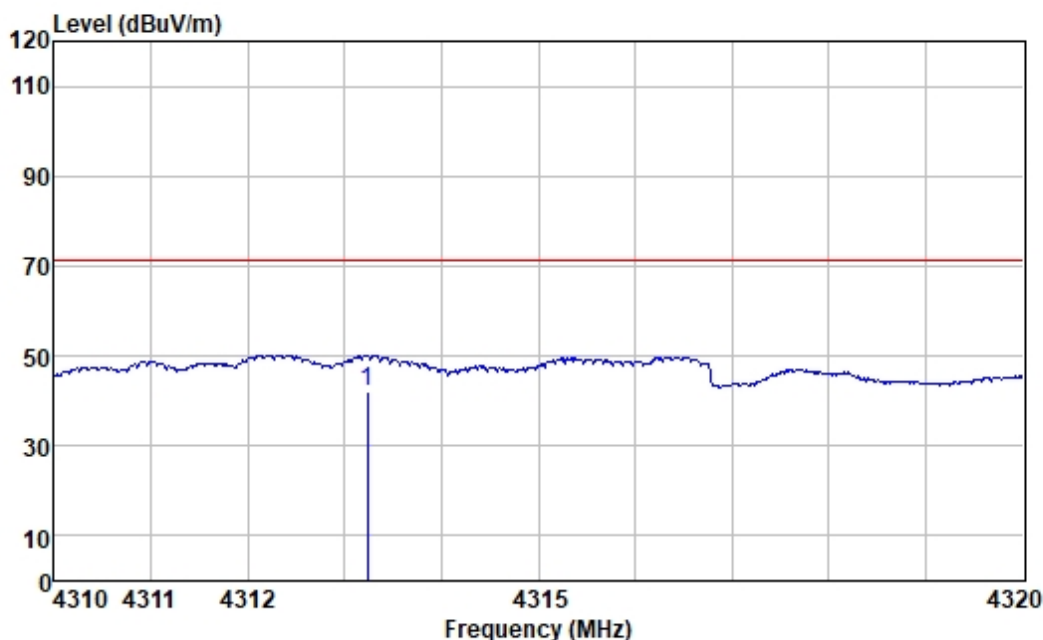
Test Mode: 00; Polarity: Horizontal



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18871.940	42.10	37.06	3.20	39.29	43.07	71.18	-28.11	HORIZONTAL	Average
2	19792.630	44.37	37.03	3.02	40.32	44.10	71.18	-27.08	HORIZONTAL	Average
3	20963.810	45.48	37.68	3.22	38.76	47.62	71.18	-23.56	HORIZONTAL	Average
4	22262.730	44.36	37.84	3.35	39.59	45.96	71.18	-25.22	HORIZONTAL	Average
5	23931.240	43.62	38.69	3.45	37.80	47.96	71.18	-23.22	HORIZONTAL	Average
6	24828.130	44.99	39.06	3.39	39.88	47.56	71.18	-23.62	HORIZONTAL	Average



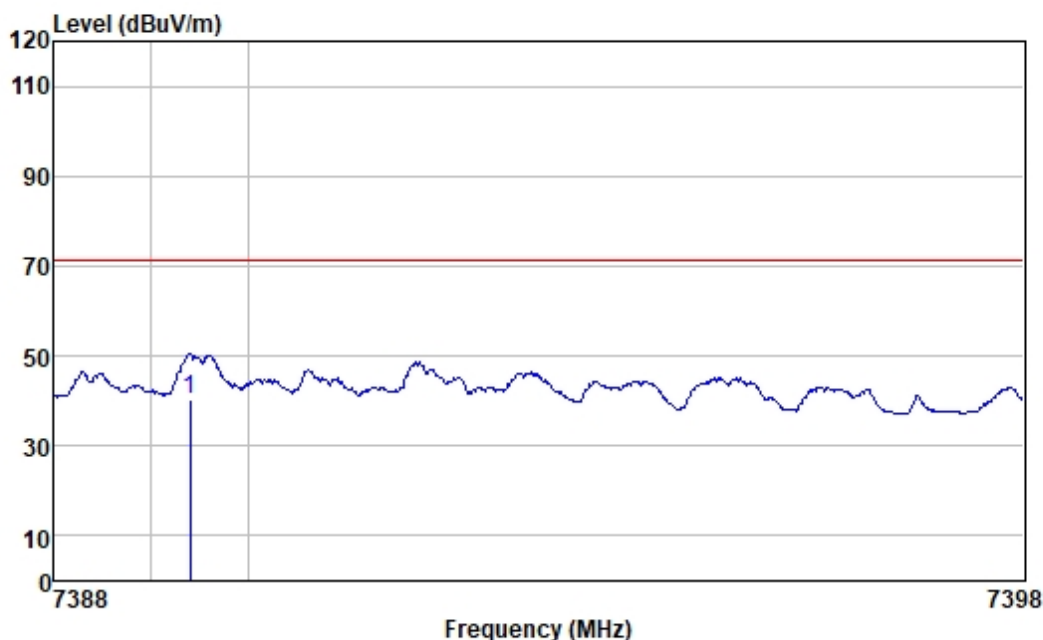
Test Mode: 00; Polarity: Horizontal



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4313.228	44.46	30.65	4.59	37.47	42.23	71.18	-28.95	HORIZONTAL Average



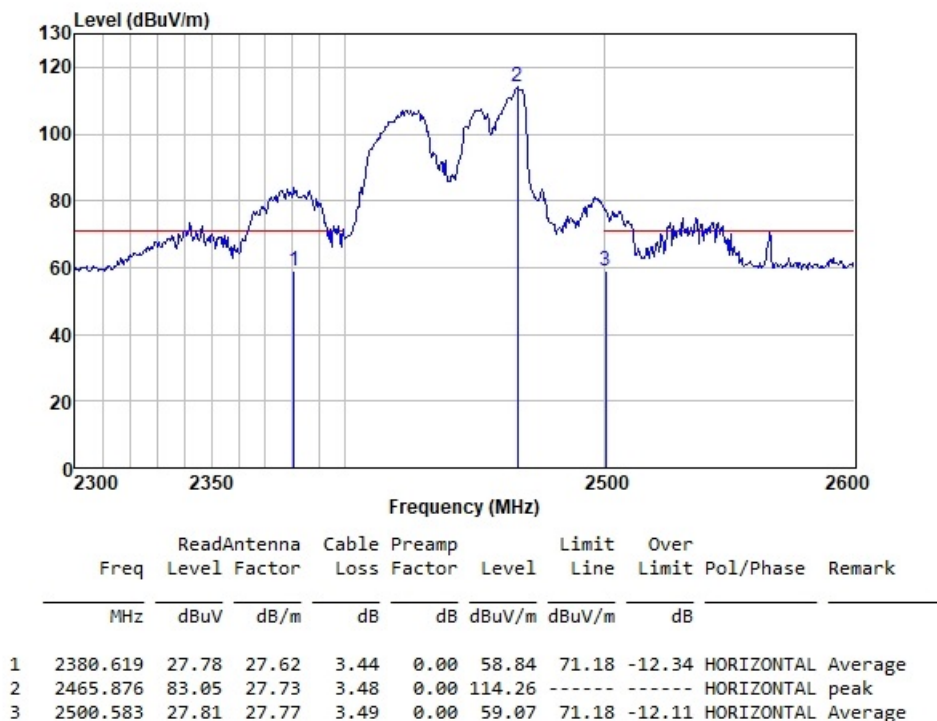
Test Mode: 00; Polarity: Horizontal



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	7389.399	35.06	36.47	6.00	37.18	40.35	71.18	-30.83	HORIZONTAL Average



Test Mode: 00; Polarity: Horizontal



6.5 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Limit:

Power output Measurement:

Formula:

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

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.

Input Power Measurement:

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C

Humidity: 52.5 % RH

Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	Test the EUT in microwave mode with maximum power.



6.5.3 Measurement Procedure and Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1103	657	19.7	10	20.2	45	1050.8

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.05	10.75	0.932	1203	1200



6.6 Operating Frequency Measurement

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Limit:
 Frequency Range: 2400-2500 MHz
 Detector: Average for the final result for outside ISM band(2450MHz±50MHz)
 Outside band 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)

Power =1050.8 W according to clause 6.1.2

Limit= $20\lg(25*\sqrt{\text{power}/500})+20\lg(300/3)=71.18\text{dBuV/m @ 3m distance}$.

ISM band: 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
6.78MHz	±15.0kHz
13.56MHz	±7.0kHz
27.12MHz	±163.0kHz
40.68MHz	±20.0kHz
915MHz	±13.0MHz
2450MHz	±50.0MHz
5800MHz	±75.0MHz
24125MHz	±125.0MHz
61.25GHz	±250.0MHz
122.5GHz	±500.0MHz
245.00GHz	±1.0GHz

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 61.7 % RH Atmospheric Pressure: 1010 mbar

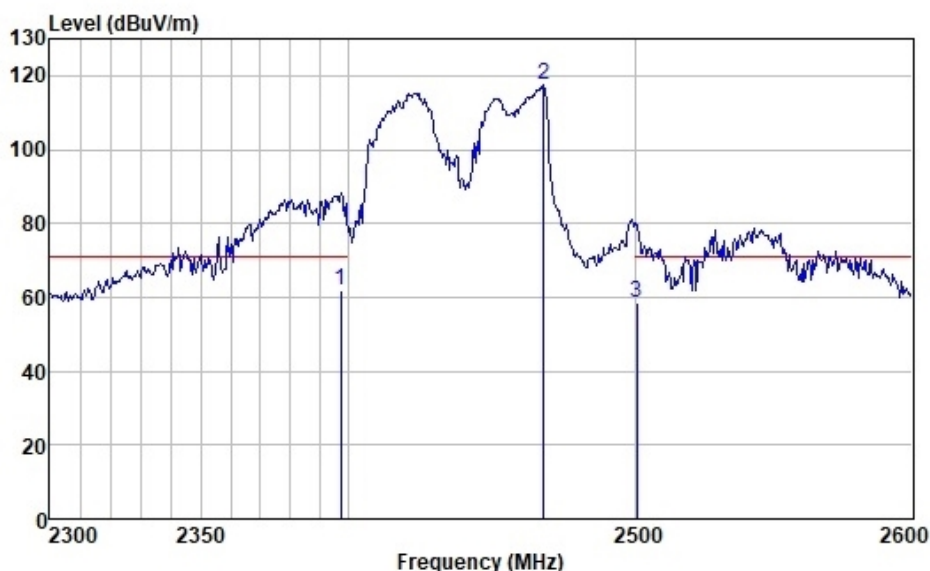


6.6.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.
Pre-scan 01	Test the EUT in microwave mode with middle power.
Pre-scan 02	Test the EUT in microwave mode with lowest power.

6.6.3 Measurement Procedure and Data

Test Mode: 00; The variation of frequency with time



	Freq	ReadAntenna	Cable	Preamp	Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2397.313	30.99	27.65	3.45	0.00	62.09	71.18	-9.09	VERTICAL
2	2467.691	86.14	27.74	3.48	0.00	117.36	-----	-----	VERTICAL
3	2500.583	27.25	27.77	3.49	0.00	58.51	71.18	-12.67	VERTICAL

The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2467.691



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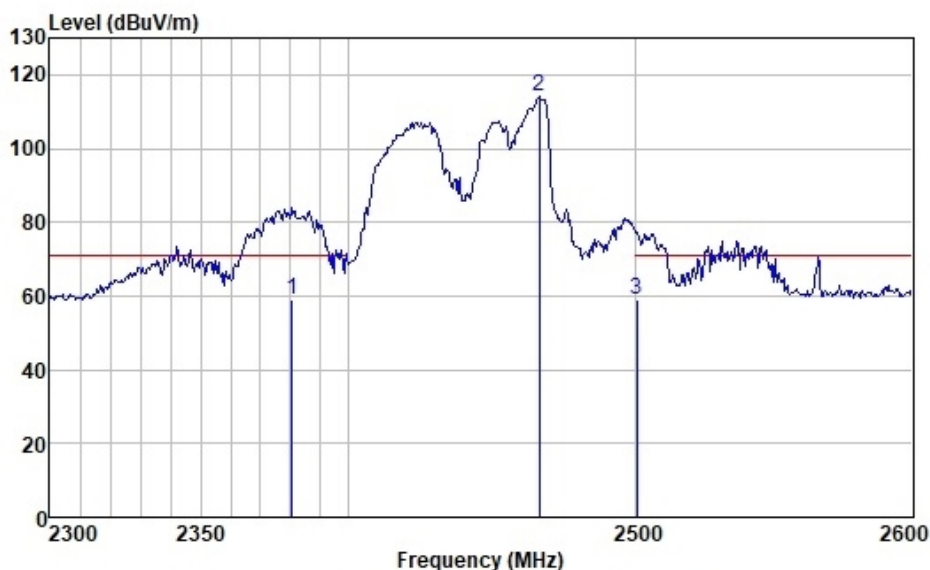
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Test Mode: 00; The variation of frequency with line voltage



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2380.619	27.78	27.62	3.44	0.00	58.84	71.18	-12.34	HORIZONTAL Average
2	2465.876	83.05	27.73	3.48	0.00	114.26	-----	-----	HORIZONTAL peak
3	2500.583	27.81	27.77	3.49	0.00	59.07	71.18	-12.11	HORIZONTAL Average

The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2465.876



6.7 Radiation Hazard Test

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 21.2 °C Humidity: 64.7 % RH Atmospheric Pressure: 1010 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.7.3 Measurement Procedure and Data

Maximum measure level (mW/cm ²)	Limit (mW/cm ²)	Test Result
0.253	1	Pass



7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM250900610802



8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2509006108HS

- End of the Report -

