

# TEST REPORT

**Application No.:** GZEM2403001786HS  
**Applicant:** Guangdong Galanz Enterprises Co., Ltd.  
**Address of Applicant:** 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, 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:**  
1. Guangdong Galanz Appliances Manufacturing Co., Ltd.  
2. Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co., Ltd.  
**Address of Factory:**  
1. No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China  
2. No.25, South Ronggui Avenue, Shunde District, Foshan City, Guangdong Province, China  
**Product Name:** Microwave oven  
**Model No.:** Please refer to page 2.  
**Trade Mark:** GALANZ, KitchenAid, JennAir  
**Standard(s) :** 47 CFR Part 18  
**Date of Receipt:** 2024-04-01  
**Date of Test:** 2024-04-02 to 2024-04-10  
**Date of Issue:** 2024-05-09

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Ricky Liu  
Manager



**Model No.:** D10043(X)RII-(Y), D10043(X)RIIH-(Y), D10043(X)RIIH-(Y)-FR\*\*,  
D10043CSPRIIH-SUB(L2), D10043(X)RII-(Y)(L2), D10043(X)RIIH-(Y)(L2),  
D10043(X)RIIH-(Y)(L2)-FR\*\*, KMCS522RPS\*\*, JMCTC15RB\*\*

D: with grill function

100: denote the output power is 1000W

43: denote different cavity in 43liters.

RII: denote convection function

Variable (X) may be AL, AP, AJ, ASL, ASP, CSP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of appearance.

\* could be from 0 to 9 or from A to Z or blank ♣

♣

Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.



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Revision Record			
Version	Report No.	Date	Remark
01	GZEM230300130202	2023-05-12	Original
02	GZEM230300130204	2024-05-09	Amendment report: Updated manufacturer's and factory's information; Updated models; Added trademark.

<b>Authorized for issue by:</b>			
		<i>Damon Guan</i>	
		<b>Damon Guan/Project Engineer</b>	
		<i>Vico Cui</i>	
		<b>Vico Cui/Reviewer</b>	



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## 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 <sup>2</sup>	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.

**Remark for report GZEM230300130202:**

Model No.: D10043(X)RII-(Y), D10043(X)RIIH-(Y), D10043(X)RIIH-(Y)-FR\*\*

D: with grill function

100: denote the output power is 1000W

43: denote different cavity in 43liters.

RII: denote convection function

Variable (X) may be

AL, AP, ASL, ASP, CSP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

\*could be from 0 to 9

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 outer appearance and model name.

Therefore only one model D10043CSPRIIH-SUB was tested in this report.



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### ✦ Remark for report GZEM230300130204:

This report GZEM230300130204 is based on original report GZEM230300130202, with the following changes:

1. Updated manufacturer's and factory's information.
2. Added trademark KitchenAid, JennAir.
3. Updated models as below:

D10043(X)RII-(Y), D10043(X)RIIH-(Y), D10043(X)RIIH-(Y)-FR\*\*, D10043CSPRIIH-SUB(L2), D10043(X)RII-(Y)(L2), D10043(X)RIIH-(Y)(L2), D10043(X)RIIH-(Y)(L2)-FR\*\*, KMCS522RPS\*\*, JMCTC15RB\*\*

D: with grill function

100: denote the output power is 1000W

43: denote different cavity in 43liters.

RII: denote convection function

Variable (X) may be AL, AP, AJ, ASL, ASP, CSP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of appearance.

\* could be from 0 to 9 or from A to Z or blank.

According to the declaration from the applicant, the models in this report GZEM230300130204 and models in original report GZEM230300130202 were identical in mechanical and electrical construction, only being different on the door open method.

All tests items were performed to model D10043CSPRIIH-SUB(L2) and recorded the new test results in this report GZEM230300130204.

Other tests please refer to original report GZEM230300130202 for details.



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## 4 General Information

### 4.1 Details of E.U.T.

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

### 4.2 Description of Support Units

Load for microwave ovens for testing:

1000mL of water in the beaker for power output and frequency measurement.
One of 700 and the other of 300mL of water for second and third harmonic radiation measurement.
700mL of water for all other measurement

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)	3.08dB(9kHz to 150kHz), 3.12dB(150kHz to 30MHz) (LLAS)
Radiated Emissions (30MHz-1GHz)	5.00dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m
Radiated Emissions (above 1GHz)	5.12dB (1GHz-6GHz); 5.38dB (6GHz-18GHz); 5.61dB (18GHz-40GHz)
Remark: The $U_{lab}$ (lab Uncertainty) is less than $U_{CISPR}$ (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

### 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



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## 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	2023-08-04	2024-08-03
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2023-09-08	2024-09-07
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2023-10-20	2024-10-19

Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable (RE 2m Loop)	INFINITE	CC223N-10	EMC0703	2023-06-25	2025-06-24
2m Large Loop Antenna System (ZN3040)	ZHINAN	ZN3040	EMC2187	2024-03-22	2026-03-21
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2022-04-12	2025-04-11
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-03-22	2025-03-21
TRILOG Broadband Antenna (25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2023-06-14	2025-06-13
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
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2023-11-10	2024-11-09
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2023-11-10	2024-11-09
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
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	2023-07-25	2024-07-24
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2024-04-19	2025-04-18
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2024-04-19	2025-04-18
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	2023-12-15	2024-12-14
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
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	2023-05-11	2024-05-10



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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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

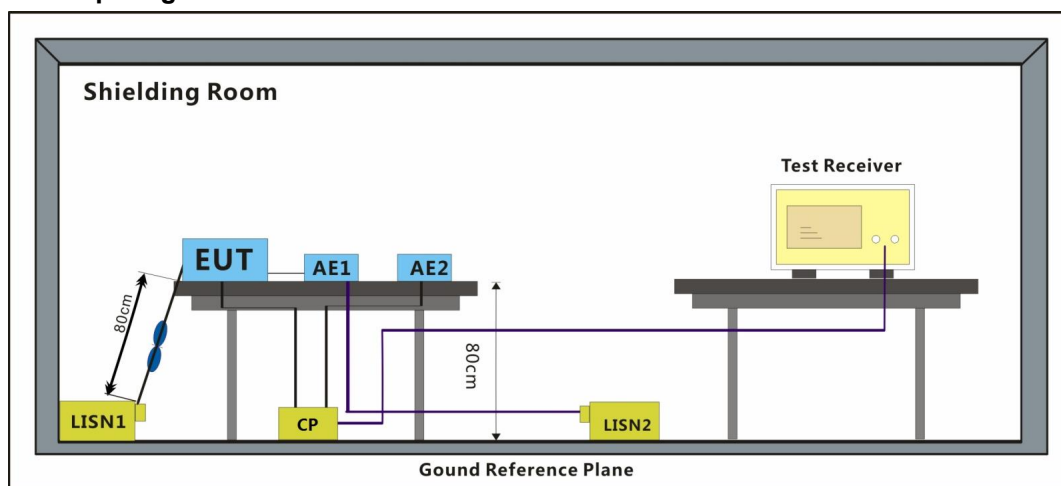
#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 26.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

#### 6.1.2 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.

#### 6.1.3 Test Setup Diagram



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### 6.1.4 Measurement Procedure and Data

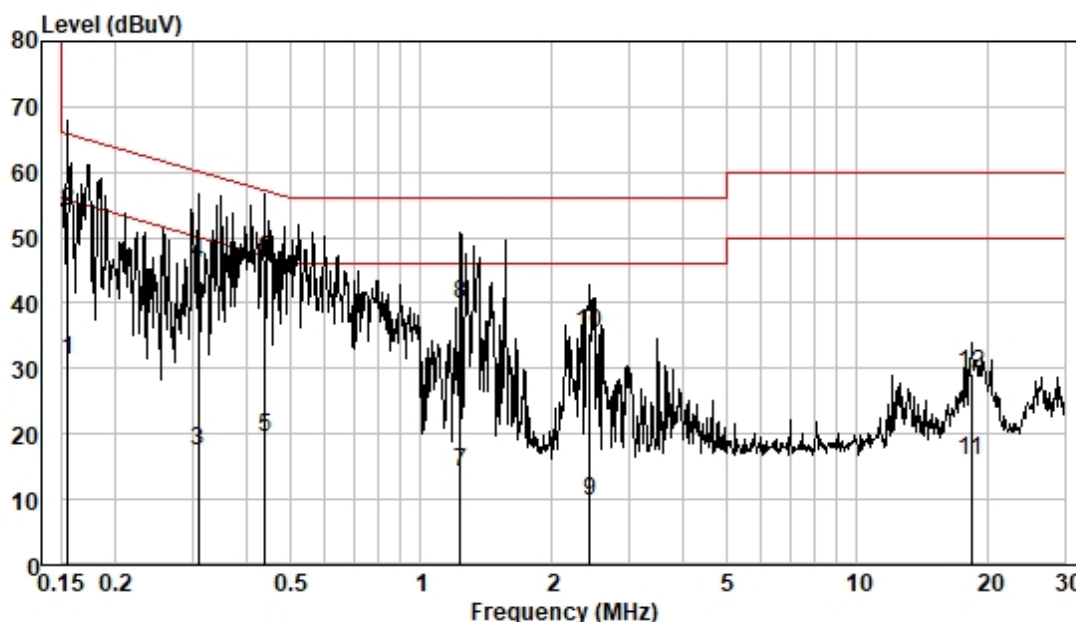
Frequency range: 150KHz-30MHz

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



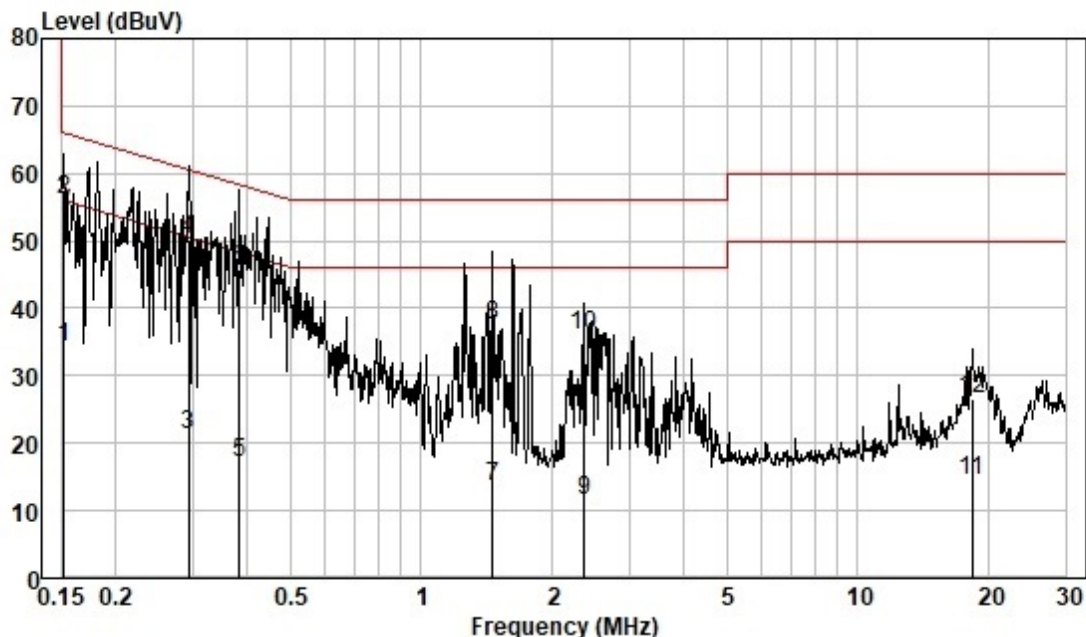
Pol : LINE  
 Mode :  
 Model :  
 Power :

	Freque MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.155	21.73	0.04	9.55	31.32	55.74	-24.42	Average
2	0.155	44.55	0.04	9.55	54.14	65.74	-11.60	QP
3	0.308	7.91	0.04	9.56	17.51	50.02	-32.51	Average
4	0.308	36.53	0.04	9.56	46.13	60.02	-13.89	QP
5	0.440	9.81	0.05	9.56	19.42	47.07	-27.65	Average
6	0.440	36.99	0.05	9.56	46.60	57.07	-10.47	QP
7	1.229	4.52	0.09	9.56	14.17	46.00	-31.83	Average
8	1.229	30.19	0.09	9.56	39.84	56.00	-16.16	QP
9	2.435	0.13	0.14	9.57	9.84	46.00	-36.16	Average
10	2.435	25.77	0.14	9.57	35.48	56.00	-20.52	QP
11	18.232	5.58	0.36	9.86	15.80	50.00	-34.20	Average
12	18.232	19.01	0.36	9.86	29.23	60.00	-30.77	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL  
 Mode :  
 Model :  
 Power :

	Freque <sub>nc</sub> MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	24.73	0.04	9.52	34.29	55.91	-21.62	Average
2	0.152	48.80	0.04	9.52	58.36	65.91	-7.55	QP
3	0.292	11.63	0.04	9.53	21.20	50.46	-29.26	Average
4	0.292	40.70	0.04	9.53	50.27	60.46	-10.19	QP
5	0.383	7.56	0.05	9.54	17.15	48.21	-31.06	Average
6	0.383	36.11	0.05	9.54	45.70	58.21	-12.51	QP
7	1.456	3.83	0.10	9.55	13.48	46.00	-32.52	Average
8	1.456	27.87	0.10	9.55	37.52	56.00	-18.48	QP
9	2.358	1.80	0.14	9.56	11.50	46.00	-34.50	Average
10	2.358	26.42	0.14	9.56	36.12	56.00	-19.88	QP
11	18.232	4.21	0.36	9.91	14.48	50.00	-35.52	Average
12	18.232	16.32	0.36	9.91	26.59	60.00	-33.41	QP



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### 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: 3 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	<b>948.9</b>	Limit=20lg(25*SQRT(948.9/500))+20lg(300/3)= <b>70.74 dBuV/m @ 3m distance.</b>

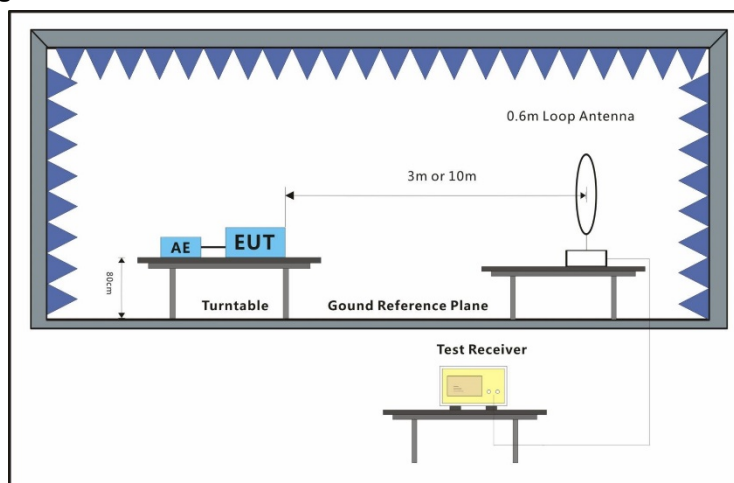
#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.4 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 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



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### 6.2.4 Measurement Procedure and Data

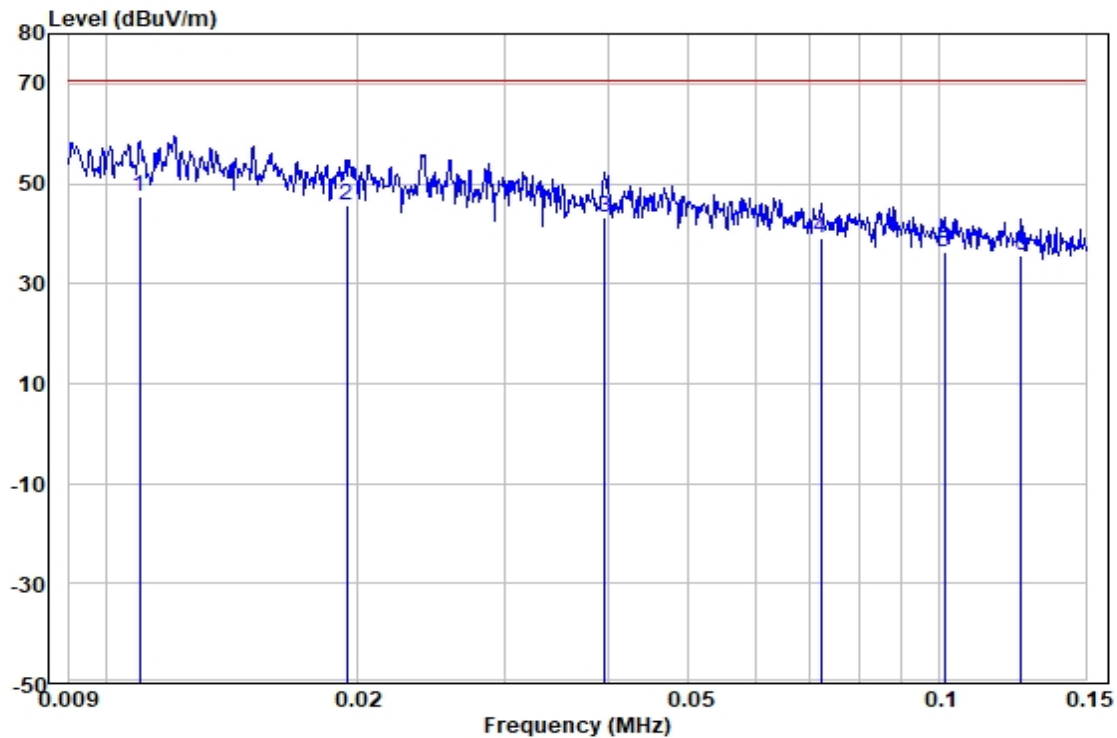
Frequency range: 9KHz-30MHz

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



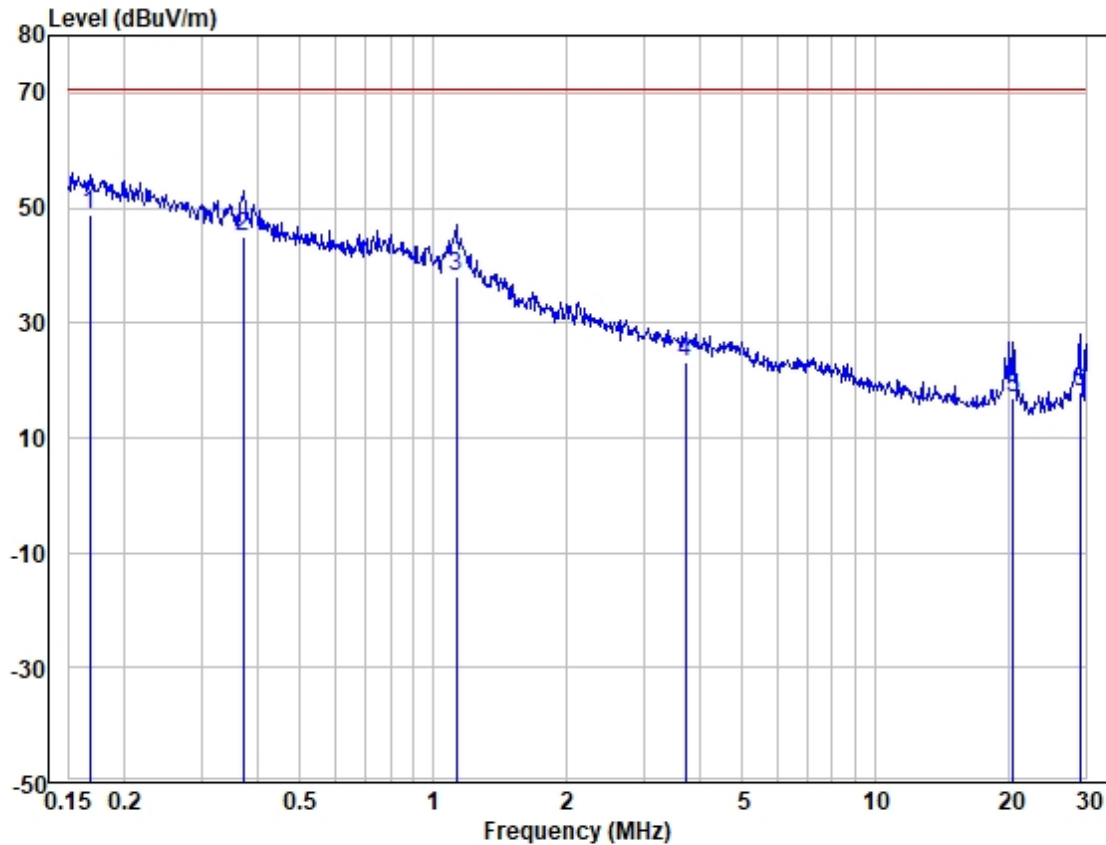
Site : 966 Chamber  
 Job :  
 Model :  
 Power :  
 Test Mode :

	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	0.011	61.97	18.26	0.01	32.90	47.34	70.74	-23.40	HORIZONTAL	Average
2	0.019	64.44	14.28	0.01	32.90	45.83	70.74	-24.91	HORIZONTAL	Average
3	0.040	63.68	12.44	0.01	32.90	43.23	70.74	-27.51	HORIZONTAL	Average
4	0.072	59.83	12.01	0.01	32.90	38.95	70.74	-31.79	HORIZONTAL	Average
5	0.101	57.32	11.95	0.01	32.90	36.38	70.74	-34.36	HORIZONTAL	Average
6	0.125	56.71	11.93	0.01	32.90	35.75	70.74	-34.99	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



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

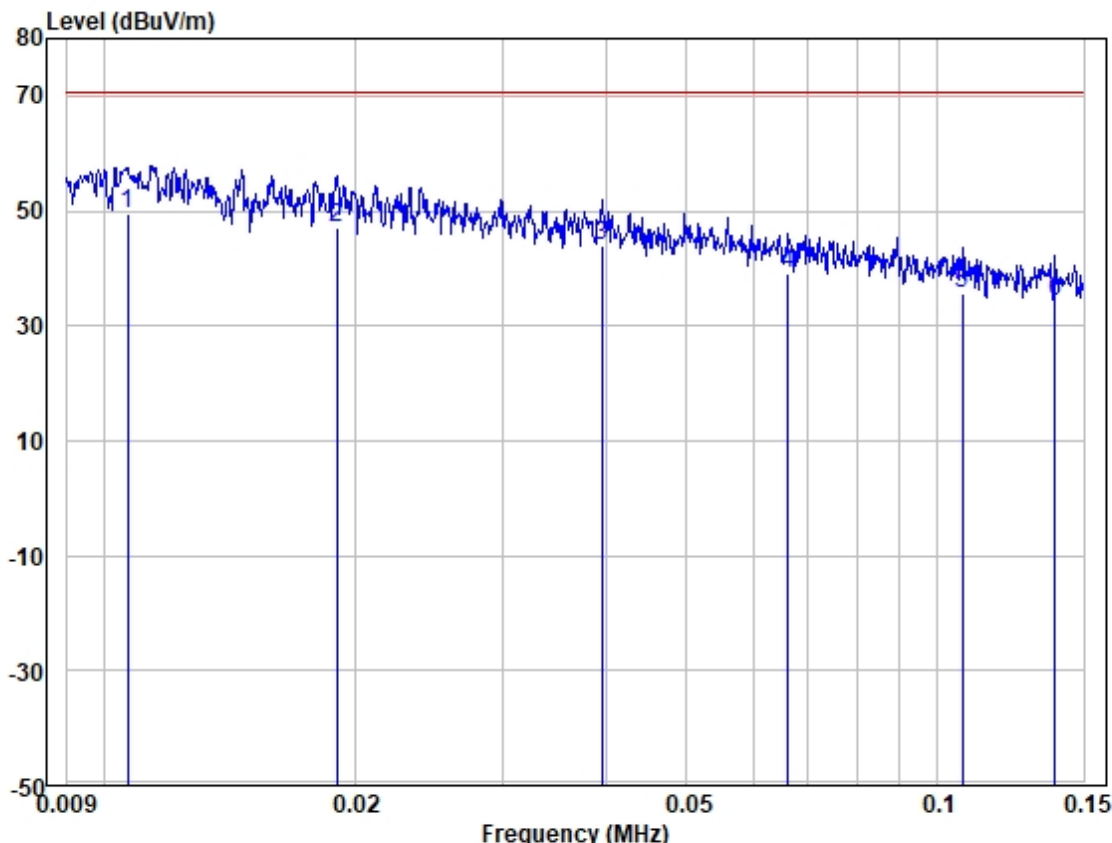
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.168	69.66	11.87	0.01	32.90	48.64	70.74	-22.10	HORIZONTAL Average
2	0.371	65.86	11.86	0.01	32.90	44.83	70.74	-25.91	HORIZONTAL Average
3	1.129	59.05	11.84	0.05	32.90	38.04	70.74	-32.70	HORIZONTAL Average
4	3.720	44.40	11.69	0.08	32.90	23.27	70.74	-47.47	HORIZONTAL Average
5	20.486	40.81	8.61	0.24	32.90	16.76	70.74	-53.98	HORIZONTAL Average
6	29.061	44.10	6.53	0.29	32.88	18.04	70.74	-52.70	HORIZONTAL Average



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Test Mode: 00; Polarity: Vertical



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

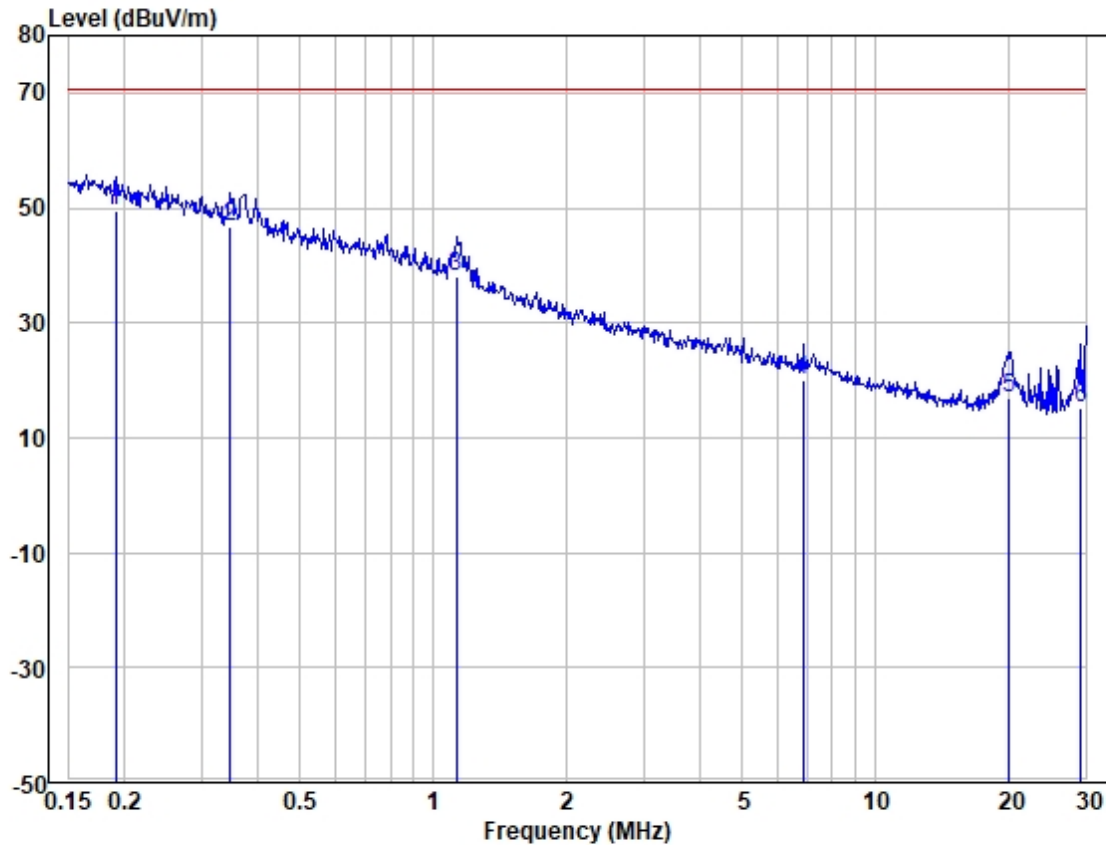
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.011	64.06	18.37	0.01	32.90	49.54	70.74	-21.20	VERTICAL	Average
2	0.019	65.46	14.35	0.01	32.90	46.92	70.74	-23.82	VERTICAL	Average
3	0.040	64.36	12.45	0.01	32.90	43.92	70.74	-26.82	VERTICAL	Average
4	0.066	59.92	12.04	0.01	32.90	39.07	70.74	-31.67	VERTICAL	Average
5	0.107	56.50	11.95	0.01	32.90	35.56	70.74	-35.18	VERTICAL	Average
6	0.139	55.08	11.91	0.01	32.90	34.10	70.74	-36.64	VERTICAL	Average



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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	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.191	70.38	11.85	0.01	32.90	49.34	70.74	-21.40	VERTICAL	Average
2	0.348	67.81	11.86	0.01	32.90	46.78	70.74	-23.96	VERTICAL	Average
3	1.129	58.89	11.84	0.05	32.90	37.88	70.74	-32.86	VERTICAL	Average
4	6.878	41.20	11.76	0.13	32.90	20.19	70.74	-50.55	VERTICAL	Average
5	20.162	41.02	8.66	0.24	32.90	17.02	70.74	-53.72	VERTICAL	Average
6	29.216	41.42	6.47	0.29	32.88	15.30	70.74	-55.44	VERTICAL	Average



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### 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	<b>948.9</b>	Limit= $20\lg(25 \cdot \text{SQRT}(948.9/500)) + 20\lg(300/3) = 70.74$ dBuV/m @ 3m distance.

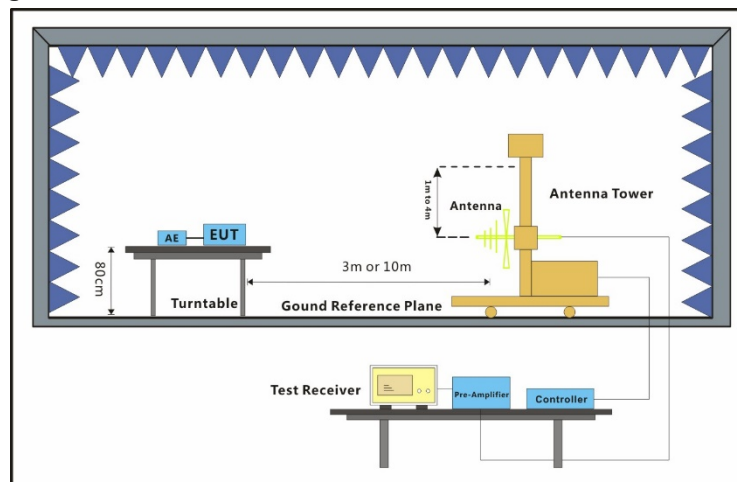
#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.8 °C      Humidity: 52.7 % RH      Atmospheric Pressure: 1020 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



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### 6.3.4 Measurement Procedure and Data

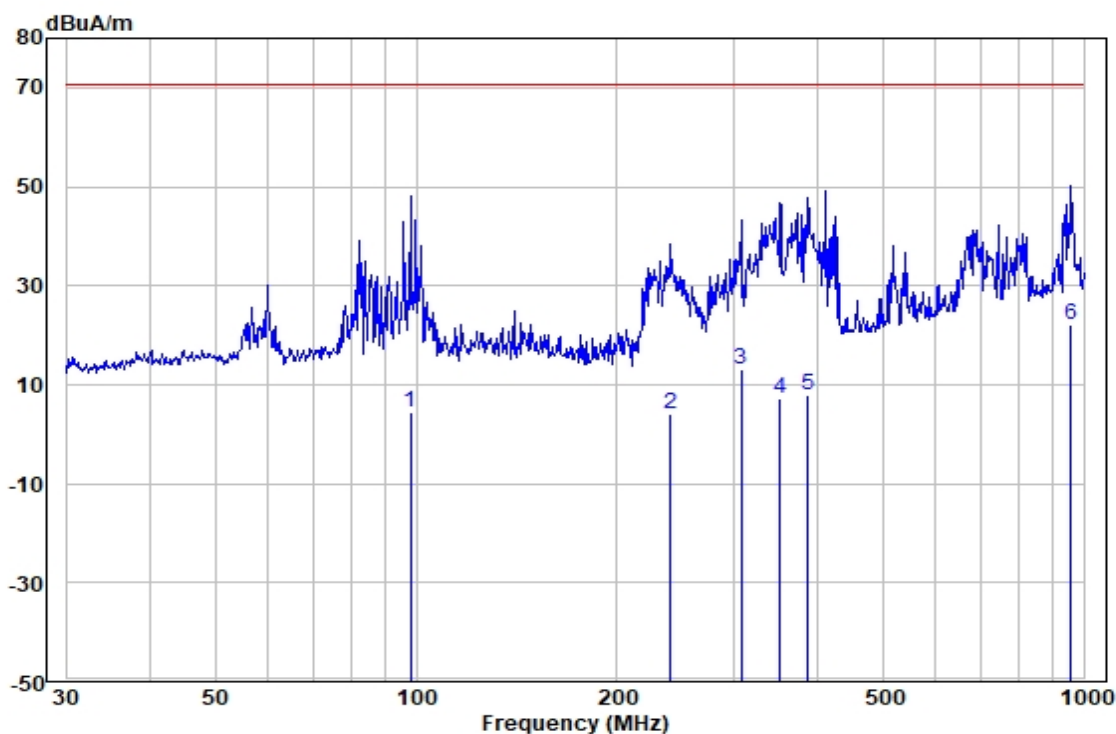
Frequency range: 30MHz-1GHz

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



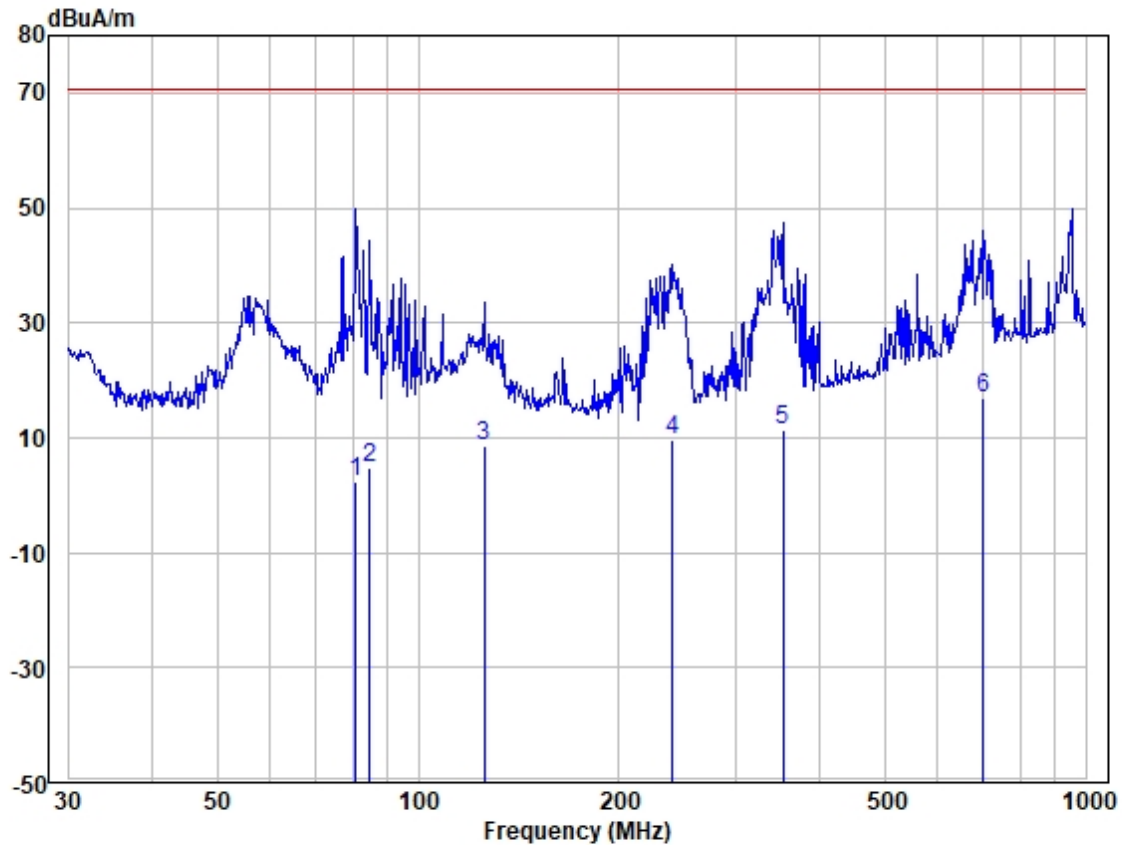
Site : 966 Chamber  
 Job :  
 Model :  
 Power :  
 Test Mode :

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	98.142	22.30	14.27	0.54	32.80	4.31	70.74	-66.43	HORIZONTAL Average
2	240.830	18.60	17.30	0.85	32.80	3.95	70.74	-66.79	HORIZONTAL Average
3	306.754	25.49	19.40	0.99	32.80	13.08	70.74	-57.66	HORIZONTAL Average
4	350.477	18.52	20.29	1.07	32.80	7.08	70.74	-63.66	HORIZONTAL Average
5	386.634	18.20	21.23	1.15	32.80	7.78	70.74	-62.96	HORIZONTAL Average
6	955.438	21.52	29.75	1.81	31.05	22.03	70.74	-48.71	HORIZONTAL Average



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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	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	80.644	19.50	15.17	0.50	32.80	2.37	70.74	-68.37	VERTICAL Average
2	84.702	22.50	14.42	0.51	32.80	4.63	70.74	-66.11	VERTICAL Average
3	125.446	22.98	17.69	0.61	32.80	8.48	70.74	-62.26	VERTICAL Average
4	240.830	24.21	17.30	0.85	32.80	9.56	70.74	-61.18	VERTICAL Average
5	351.708	22.93	20.32	1.08	32.80	11.53	70.74	-59.21	VERTICAL Average
6	701.761	21.20	26.90	1.54	32.70	16.94	70.74	-53.80	VERTICAL Average



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### 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	<b>948.9</b>	Limit= $20\lg(25 \cdot \text{SQRT}(948.9/500)) + 20\lg(300/3) = 70.74$ dBuV/m @ 3m distance.

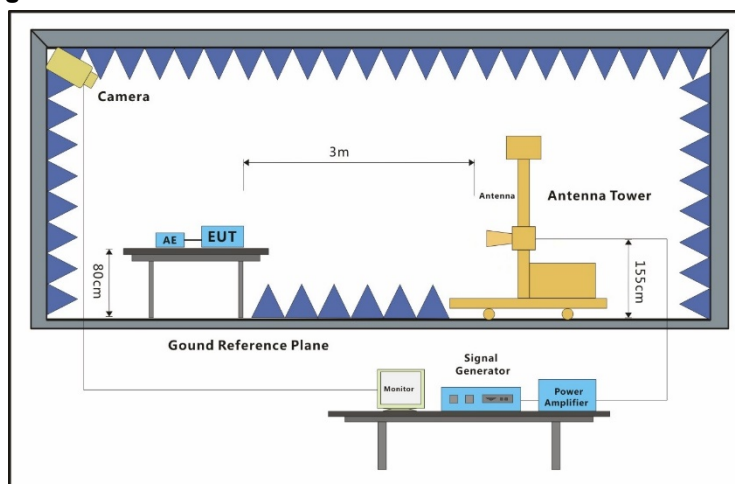
#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 24.2 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

#### 6.4.2 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.

#### 6.4.3 Test Setup Diagram



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### 6.4.4 Measurement Procedure and Data

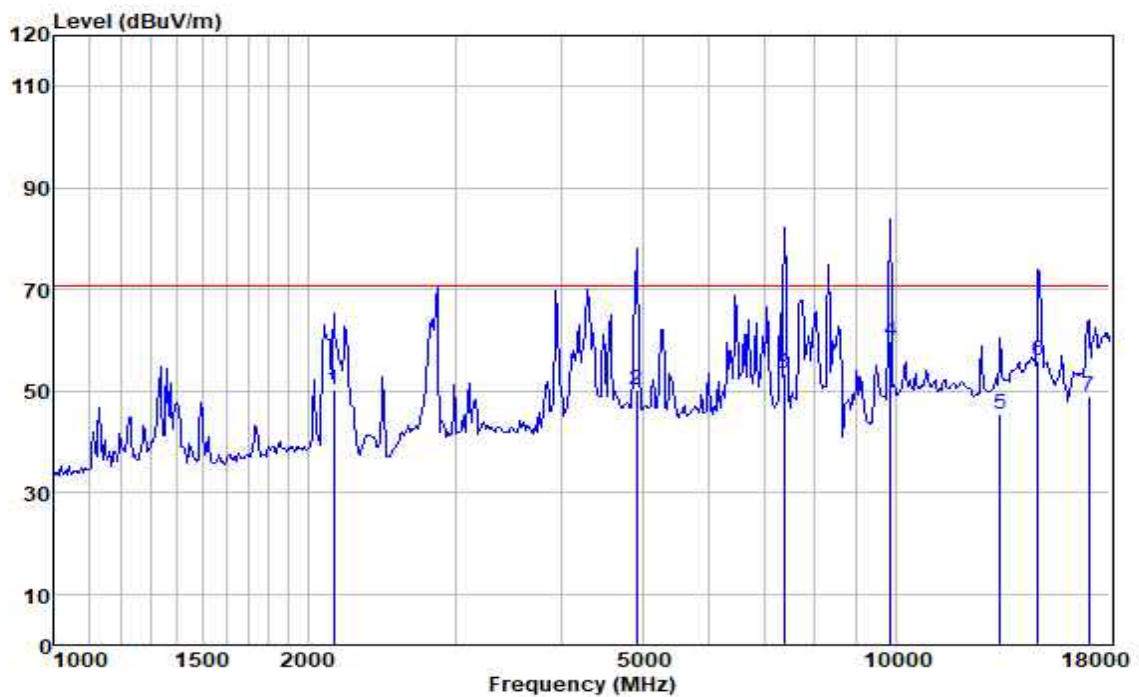
Frequency range: Above 1GHz

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



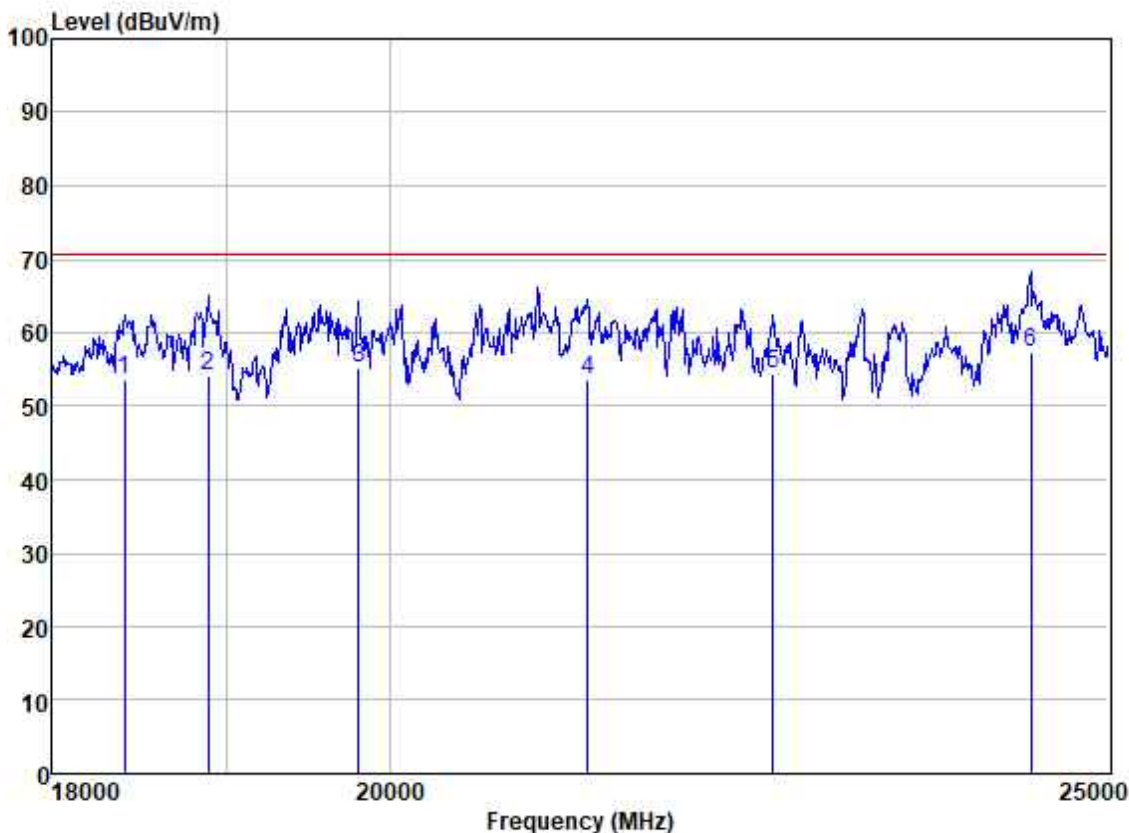
	Freq	ReadAntenna	Cable	Preamp	Limit	Over				
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2151.034	57.29	26.73	3.45	37.27	50.20	70.74	-20.54	HORIZONTAL	Average
2	4917.954	47.39	34.15	5.25	36.68	50.11	70.74	-20.63	HORIZONTAL	Average
3	7368.050	47.30	36.18	6.77	36.96	53.29	70.74	-17.45	HORIZONTAL	Average
4	9866.789	50.06	38.91	7.66	36.81	59.82	70.74	-10.92	HORIZONTAL	Average
5	13326.750	31.22	40.06	9.90	35.69	45.49	70.74	-25.25	HORIZONTAL	Average
6	14788.150	39.77	41.56	10.54	35.81	56.06	70.74	-14.68	HORIZONTAL	Average
7	16988.970	31.79	41.57	11.78	36.28	48.86	70.74	-21.88	HORIZONTAL	Average



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Test Mode: 00; Polarity: Vertical



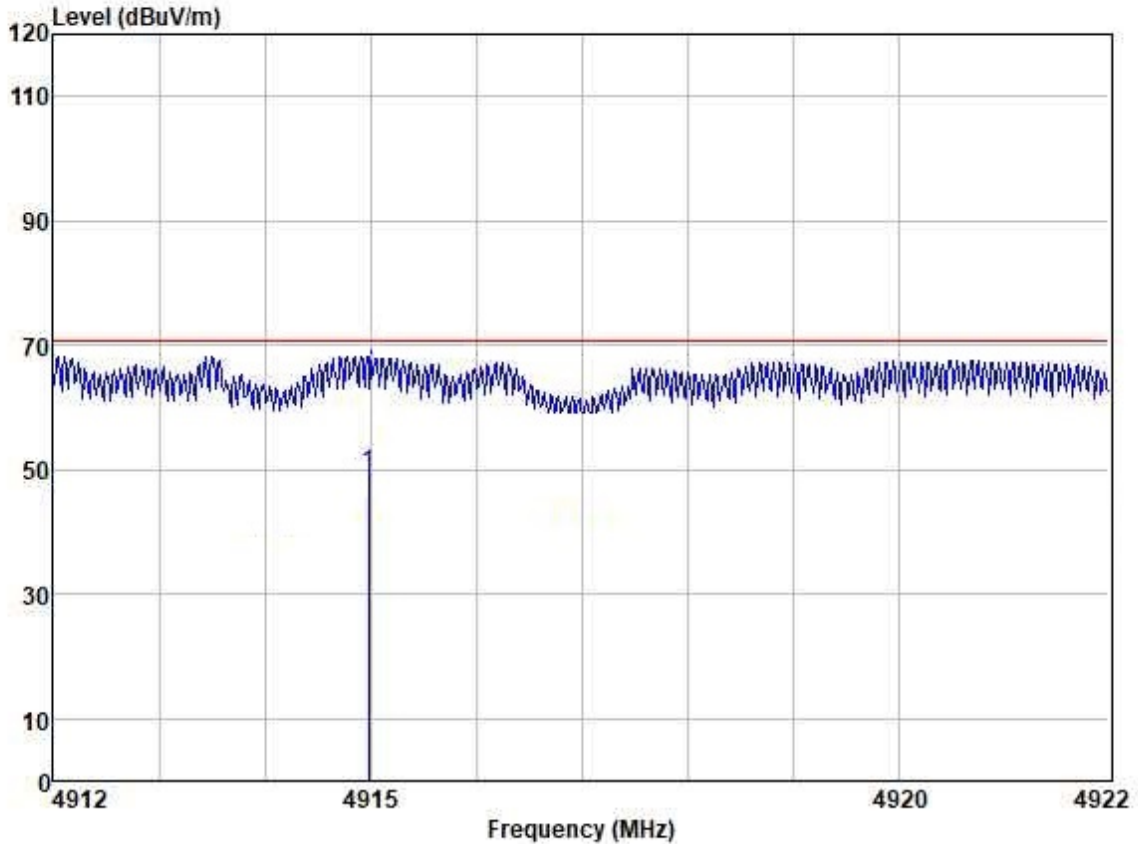
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18406.610	34.51	37.93	16.64	35.60	53.48	70.74	-17.26	HORIZONTAL Average
2	18896.760	34.84	37.99	16.88	35.60	54.11	70.74	-16.63	HORIZONTAL Average
3	19799.130	35.55	38.00	17.25	35.60	55.20	70.74	-15.54	HORIZONTAL Average
4	21262.040	32.79	37.96	18.12	35.39	53.48	70.74	-17.26	HORIZONTAL Average
5	22527.570	31.92	39.01	18.94	35.47	54.40	70.74	-16.34	HORIZONTAL Average
6	24407.610	33.34	39.49	20.67	36.12	57.38	70.74	-13.36	HORIZONTAL Average



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Test Mode: 00; Polarity: Horizontal

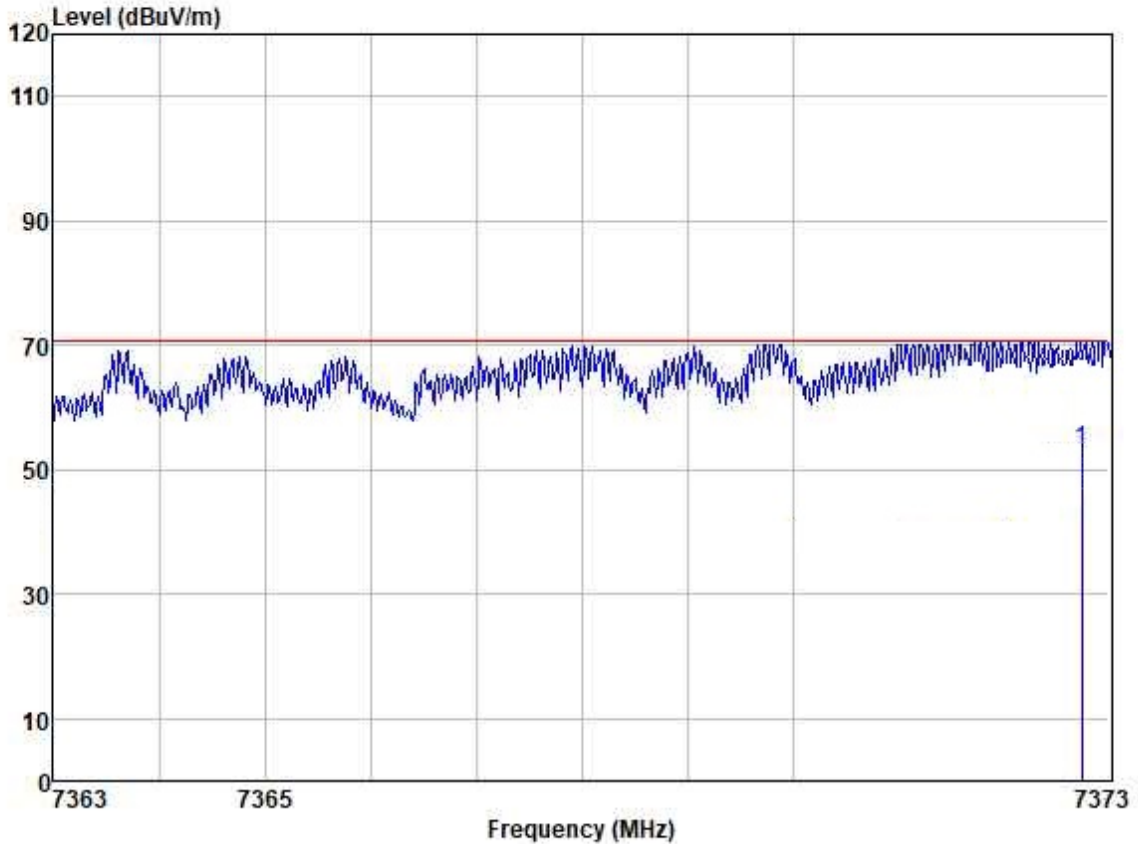


	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	4914.988	46.47	34.15	5.25	36.68	49.19	70.74	-21.55	HORIZONTAL Average



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Test Mode: 00; Polarity: Horizontal



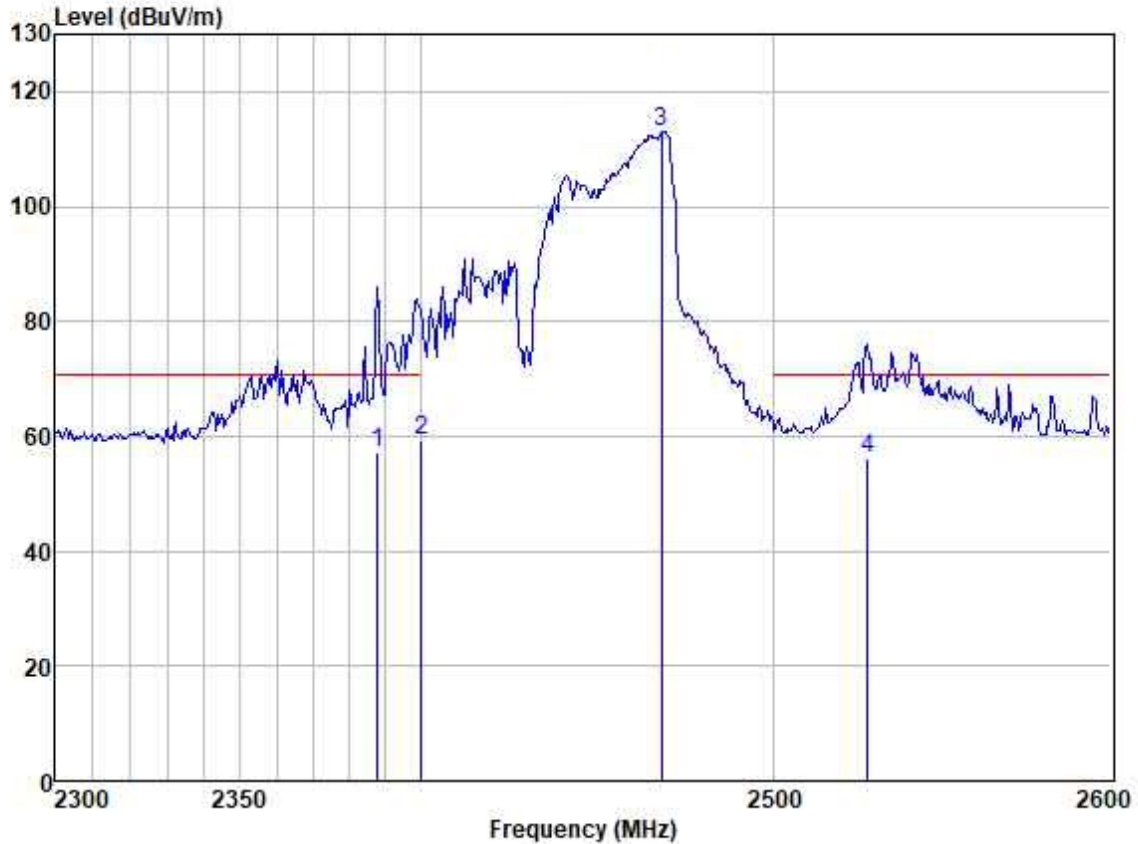
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 7372.740	47.02	36.18	6.77	36.96	53.01	70.74	-17.73	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



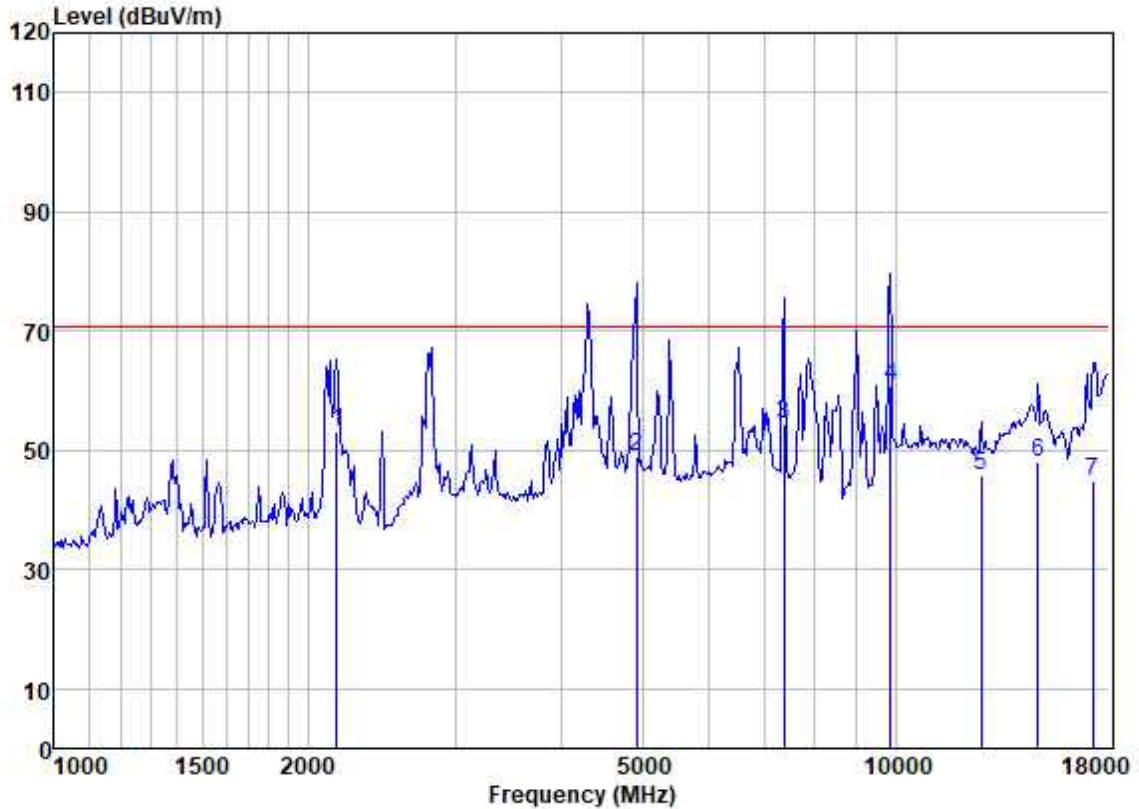
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2387.634	25.89	27.45	3.77	0.00	57.11	70.74	-13.63	HORIZONTAL	Average
2	2400.000	27.94	27.46	3.78	0.00	59.18	70.74	-11.56	HORIZONTAL	Average
3	2467.691	84.48	27.75	3.82	0.00	116.05	-----	-----	HORIZONTAL	peak
4	2527.398	24.23	27.94	3.85	0.00	56.02	70.74	-14.72	HORIZONTAL	Average



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Test Mode: 00; Polarity: Vertical



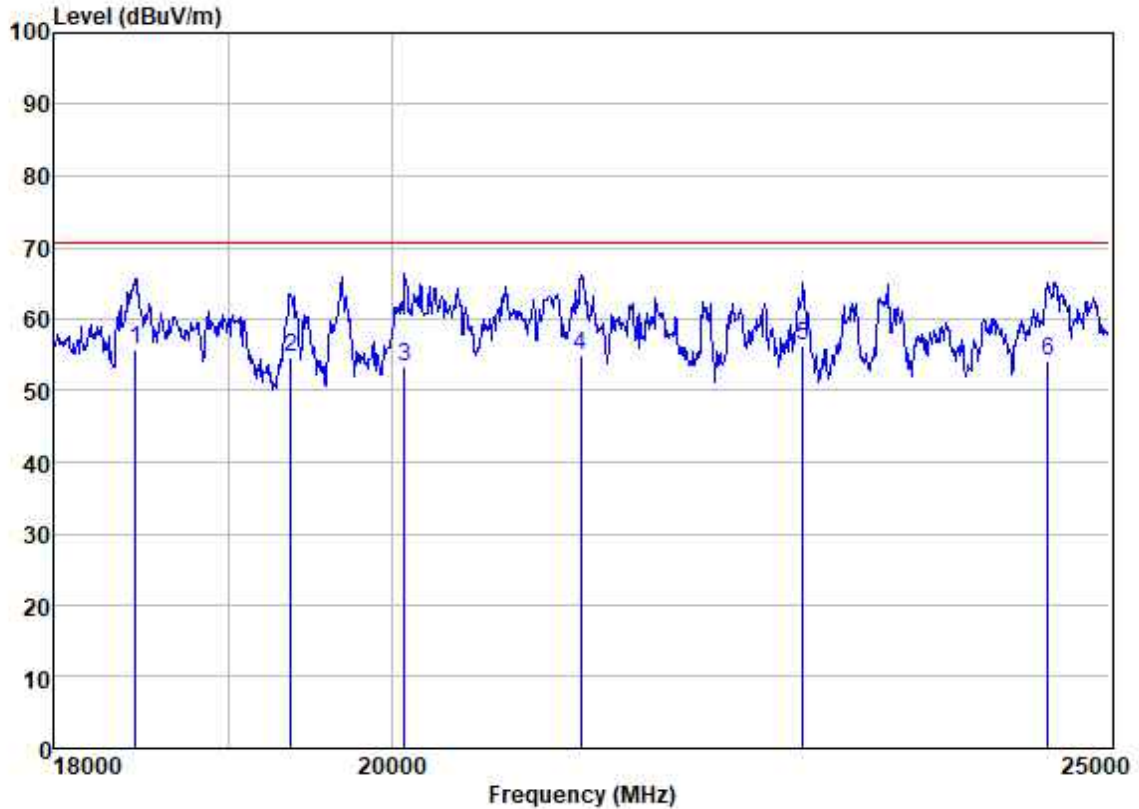
	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2163.504	60.29	26.77	3.47	37.27	53.26	70.74	-17.48	VERTICAL	Average
2	4923.265	46.39	34.15	5.25	36.68	49.11	70.74	-21.63	VERTICAL	Average
3	7375.365	48.44	36.18	6.77	36.96	54.43	70.74	-16.31	VERTICAL	Average
4	9866.789	50.93	38.91	7.66	36.81	60.69	70.74	-10.05	VERTICAL	Average
5	12651.130	33.99	38.57	9.59	36.31	45.84	70.74	-24.90	VERTICAL	Average
6	14788.150	31.83	41.56	10.54	35.81	48.12	70.74	-22.62	VERTICAL	Average
7	17186.530	26.59	42.28	12.01	36.10	44.78	70.74	-25.96	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



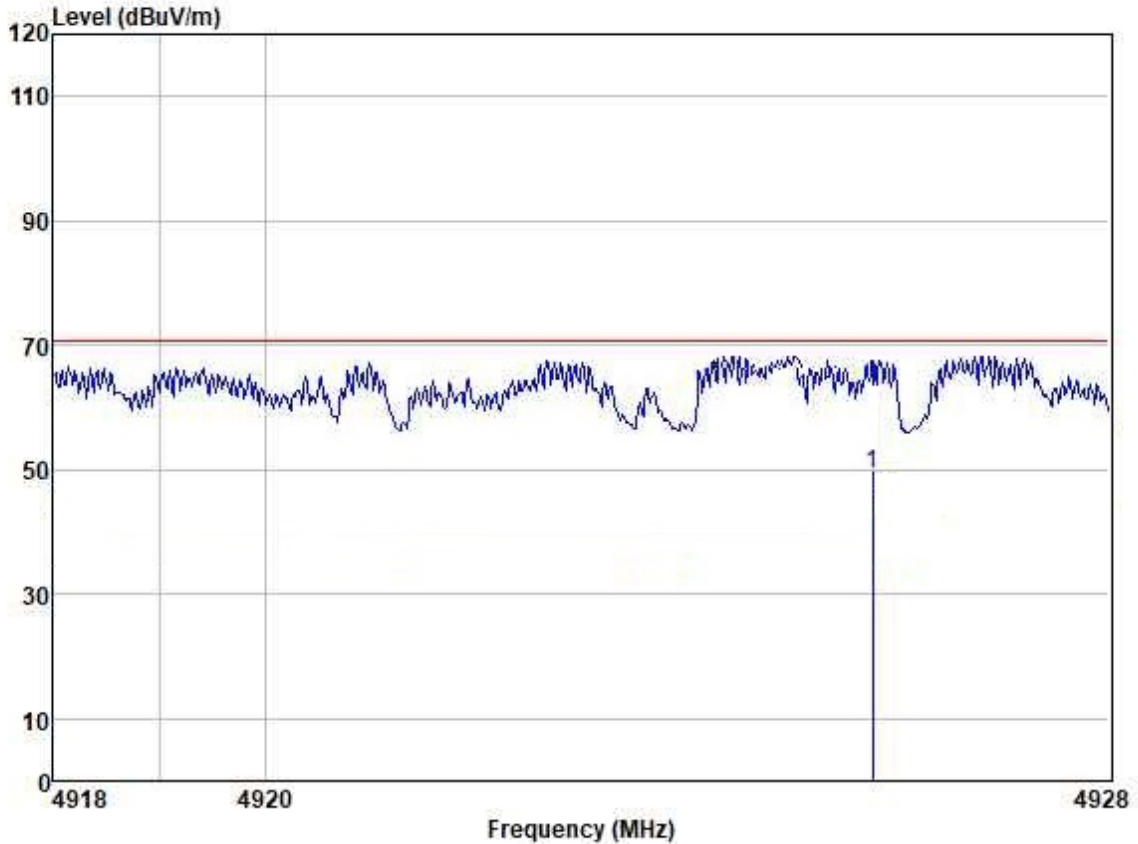
	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	18461.110	36.59	37.94	16.68	35.60	55.61	70.74	-15.13	VERTICAL	Average
2	19374.480	35.17	38.00	17.02	35.60	54.59	70.74	-16.15	VERTICAL	Average
3	20074.190	33.65	38.00	17.33	35.59	53.39	70.74	-17.35	VERTICAL	Average
4	21206.240	34.38	37.95	18.08	35.41	55.00	70.74	-15.74	VERTICAL	Average
5	22720.810	33.35	39.31	19.09	35.57	56.18	70.74	-14.56	VERTICAL	Average
6	24520.120	29.91	39.44	20.83	36.12	54.06	70.74	-16.68	VERTICAL	Average



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	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	4925.758	48.04	34.15	5.26	36.68	50.77	70.74	-19.97	VERTICAL Average

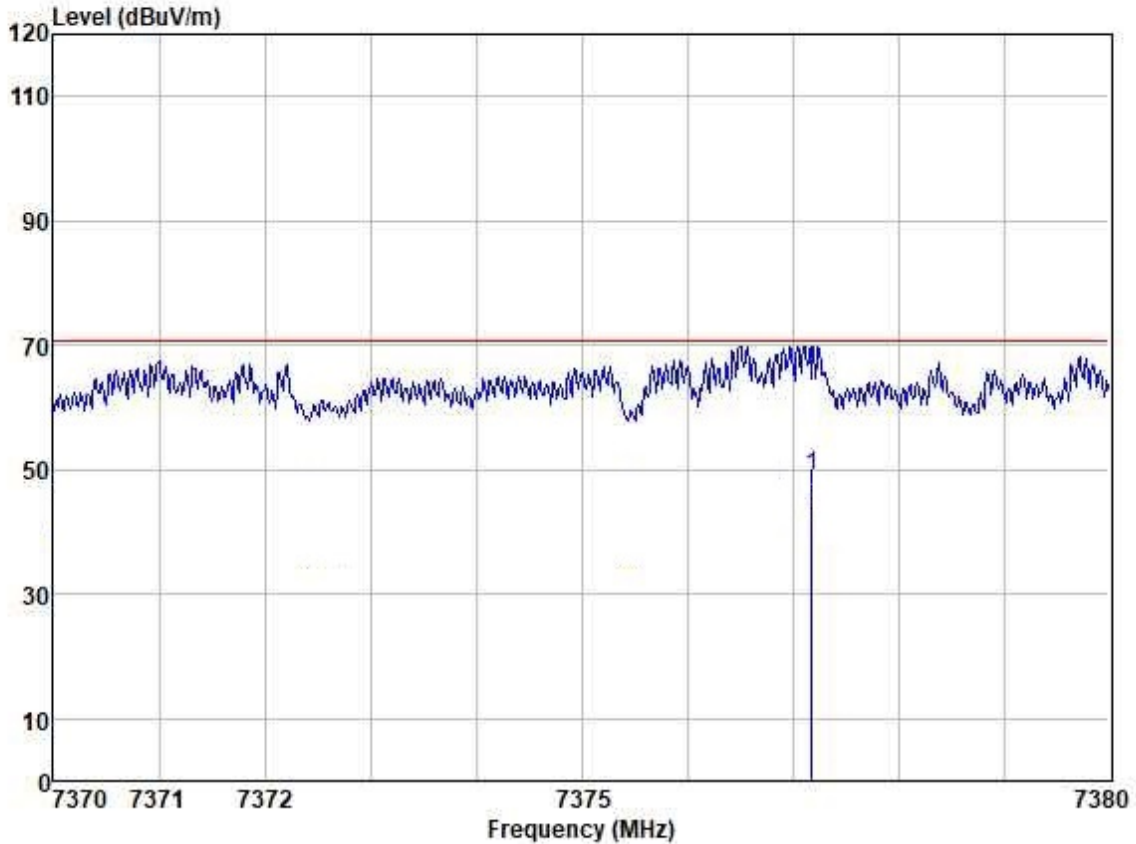


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Test Mode: 00; Polarity: Vertical



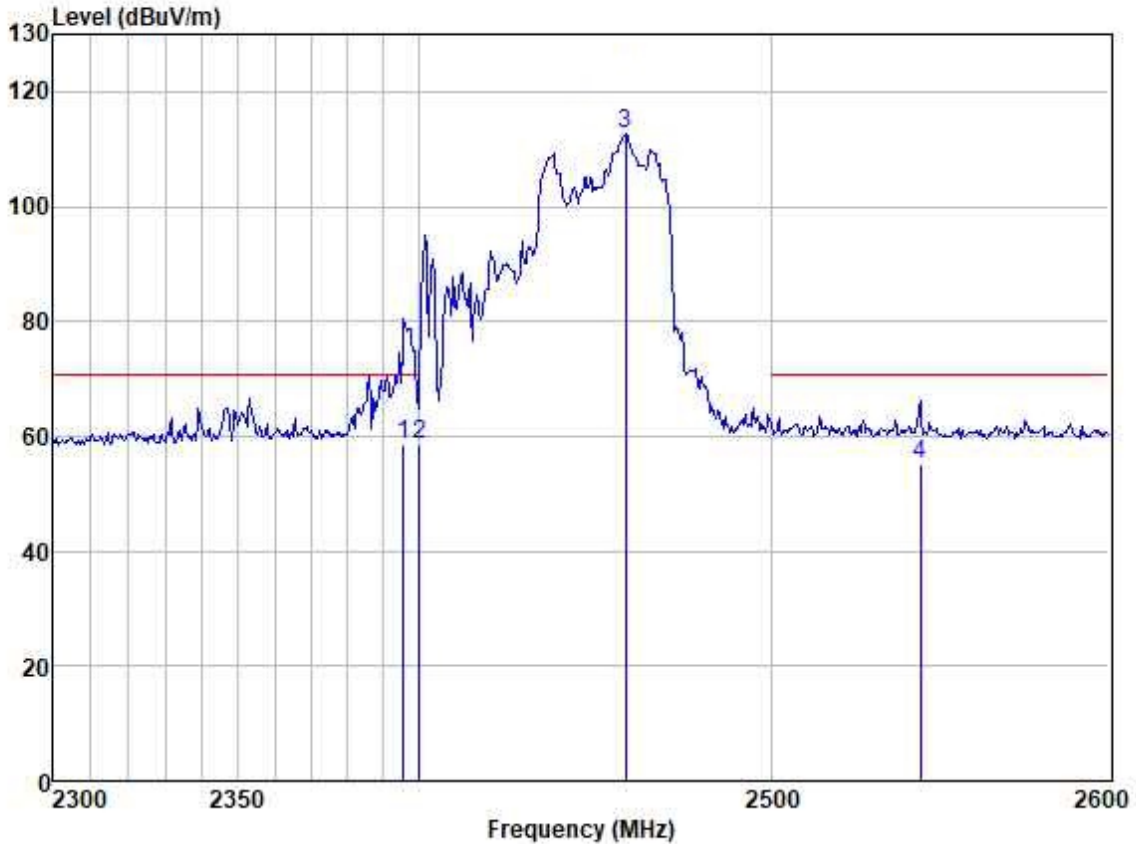
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 7377.179	44.38	36.18	6.77	36.96	50.37	70.74	-20.37	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBUV/m	dBUV/m	dB	
1	2395.551	27.38	27.45	3.77	0.00	58.60	70.74	-12.14	VERTICAL Average
2	2400.000	27.47	27.46	3.78	0.00	58.71	70.74	-12.03	VERTICAL Average
3	2458.028	83.68	27.69	3.81	0.00	115.18	-----	-----	VERTICAL peak
4	2543.563	23.41	27.99	3.86	0.00	55.26	70.74	-15.48	VERTICAL Average



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## 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<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 the initial temperature of the water, in degrees Celsius

T<sub>2</sub> 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: 52.4 % RH Atmospheric Pressure: 1020 mbar

### 6.5.2 Test Mode Description

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



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**6.5.3 Measurement Procedure and Data**

Output Power 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)
1005	413	19.7	10.2	20.1	44	948.9

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.8	12.78	0.932	1427	1500



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**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 =891.1 W according to clause 6.1.2

Limit=20lg(25\*SQRT(power/500))+20lg(300/3)=70.47dBuV/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
<b>2450MHz</b>	<b>±50.0MHz</b>
5800MHz	±75.0MHz
24125MHz	±125.0MHz
61.25GHz	±250.0MHz
122.5GHz	±500.0MHz
245.00GHz	±1.0GHz



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### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 56.7 % RH Atmospheric Pressure: 1020 mbar

### 6.6.2 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.

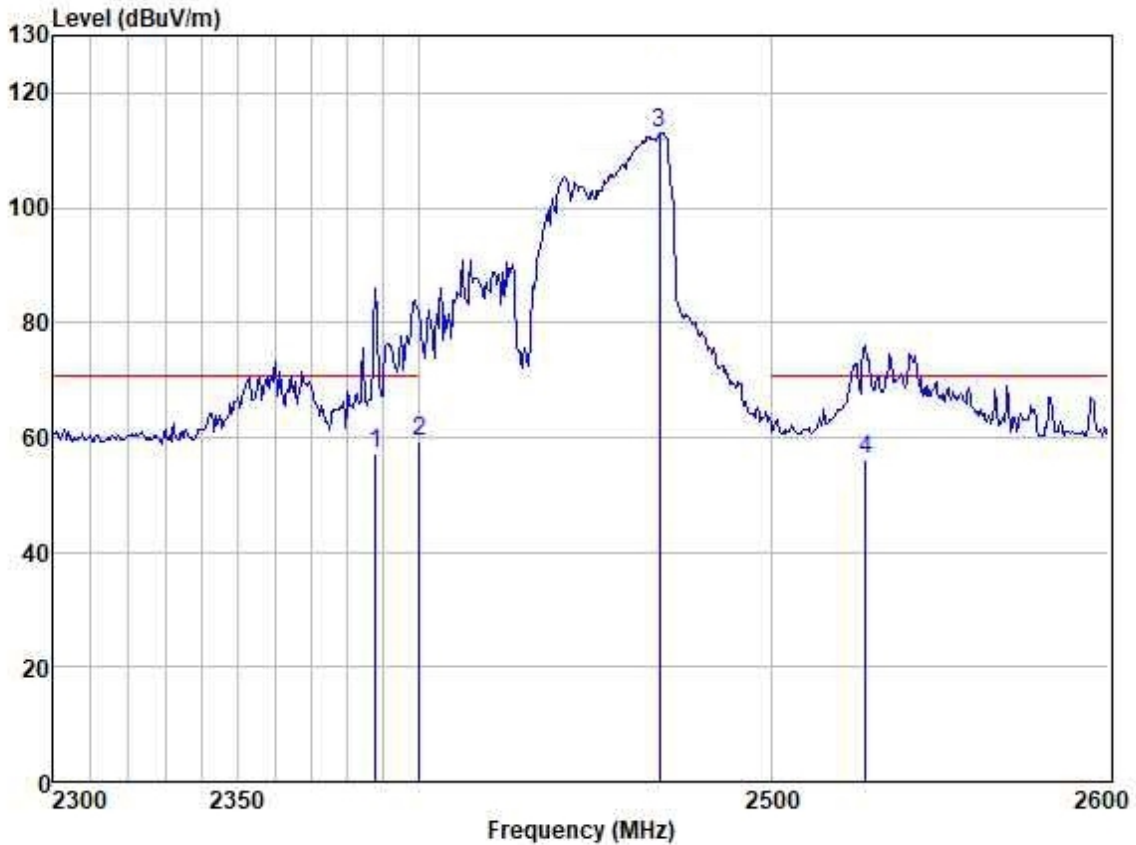


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### 6.6.3 Measurement Procedure and Data

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



	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	2387.634	25.89	27.45	3.77	0.00	57.11	70.74	-13.63	HORIZONTAL Average
2	2400.000	27.94	27.46	3.78	0.00	59.18	70.74	-11.56	HORIZONTAL Average
3	2467.691	84.48	27.75	3.82	0.00	116.05	-----	-----	HORIZONTAL peak
4	2527.398	24.23	27.94	3.85	0.00	56.02	70.74	-14.72	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%.

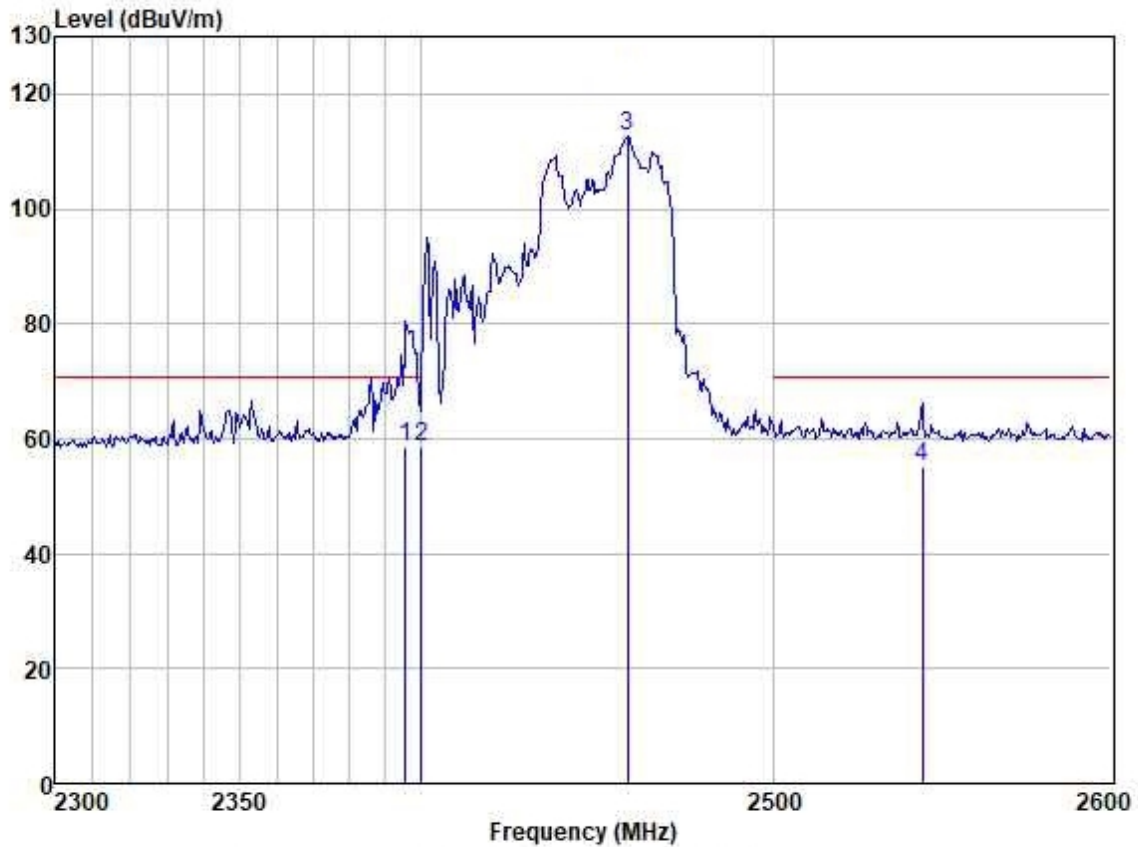
Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

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



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Test Mode: 00; The variation of frequency with time



	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	2395.551	27.38	27.45	3.77	0.00	58.60	70.74	-12.14	VERTICAL Average
2	2400.000	27.47	27.46	3.78	0.00	58.71	70.74	-12.03	VERTICAL Average
3	2458.028	83.68	27.69	3.81	0.00	115.18	-----	-----	VERTICAL peak
4	2543.563	23.41	27.99	3.86	0.00	55.26	70.74	-15.48	VERTICAL Average

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	2458.028



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**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: 22.5 °C Humidity: 52.1 % RH Atmospheric Pressure: 1020 mbar

**6.7.2 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.

**6.7.3 Measurement Procedure and Data**

Maximum measure level (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Test Result
0.125	1	Pass



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM230300130204



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## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2403001786HS

- End of the Report -



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