

# TEST REPORT

<b>Application No.:</b>	GZEM2506004036HS
<b>Applicant:</b>	Guangdong Galanz Enterprises Co., Ltd.
<b>Address of Applicant:</b>	25 Ronggui Nan.Rd., Shunde, Foshan, Guangdong., China
<b>Manufacturer:</b>	Guangdong Galanz Appliances Manufacturing Co., Ltd.
<b>Address of Manufacturer:</b>	No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
<b>Factory:</b>	Guangdong Galanz Appliances Manufacturing Co., Ltd.
<b>Address of Factory:</b>	No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
<b>Product Name:</b>	Microwave oven
<b>Model No.:</b>	D10034ASPRIII-H3-FR02, MCC1311ARB, MCC1311ARS ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
<b>Trade Mark:</b>	GALANZ, Magic chef
<b>Standard(s) :</b>	47 CFR Part 18
<b>Date of Receipt:</b>	2025-06-26
<b>Date of Test:</b>	2025-07-01 to 2025-08-08
<b>Date of Issue:</b>	2025-08-20
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT complied with the standards specified above.

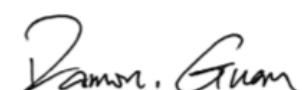


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Revision Record			
Version	Report No.	Date	Remark
01	GZEM250600403602	2025-08-20	Original

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



## 2 Test Summary

<b>Emission Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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.

**◆Declaration of EUT Family Grouping:****Model No.:** D10034ASPRIII-H3-FR02, MCC1311ARB, MCC1311ARS

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

There are two kinds of DC motor

Manufacture	Model
ZHAOLI	D6T30H2B02
Galanz	GAL-WBLDC001

Therefore one model D10034ASPRIII-H3-FR02 with D6T30H2B02 motor was test full items, one model D10034ASPRIII-H3-FR02 with GAL-WBLDC001 motor was tested Conducted Emissions at Mains Terminals (150kHz-30MHz), Radiated Emissions (30MHz-1GHz) 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  
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

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)	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  $U_{cisp}$  (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, IEC600 01 and Rules of procedure IEC600 02, and the relevant IEC600 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	2023-08-24	2025-08-23
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	2024-09-02	2025-09-01
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	2024-10-14	2025-10-13

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	2024-04-08	2026-04-07
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	CRTSGSSAC9 66	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	CRTSGSSAC9 66	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	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
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	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
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	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	2024-09-02	2025-09-01
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	2023-12-20	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	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

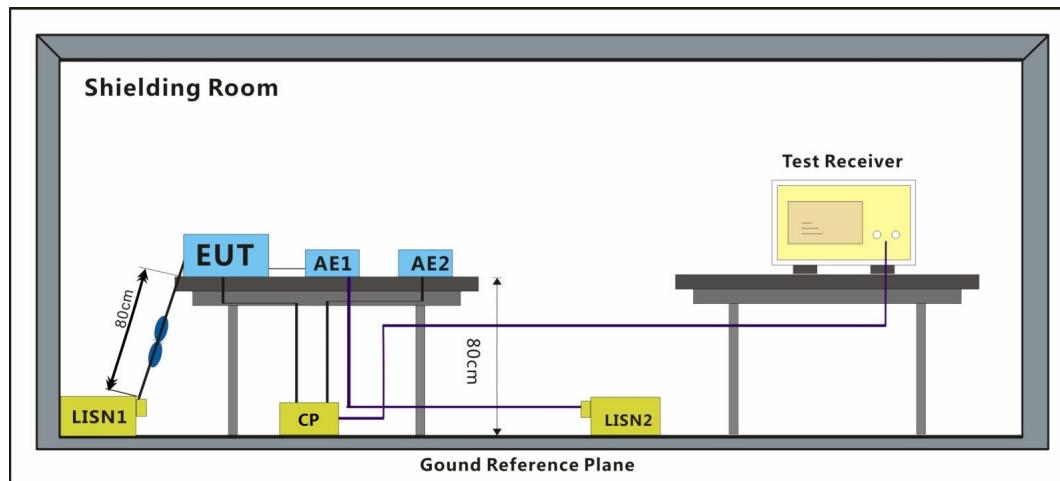
#### 6.1.1 E.U.T. Operation

Operating Environment:  
Temperature: 22.2 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1008 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Mode	Final test	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

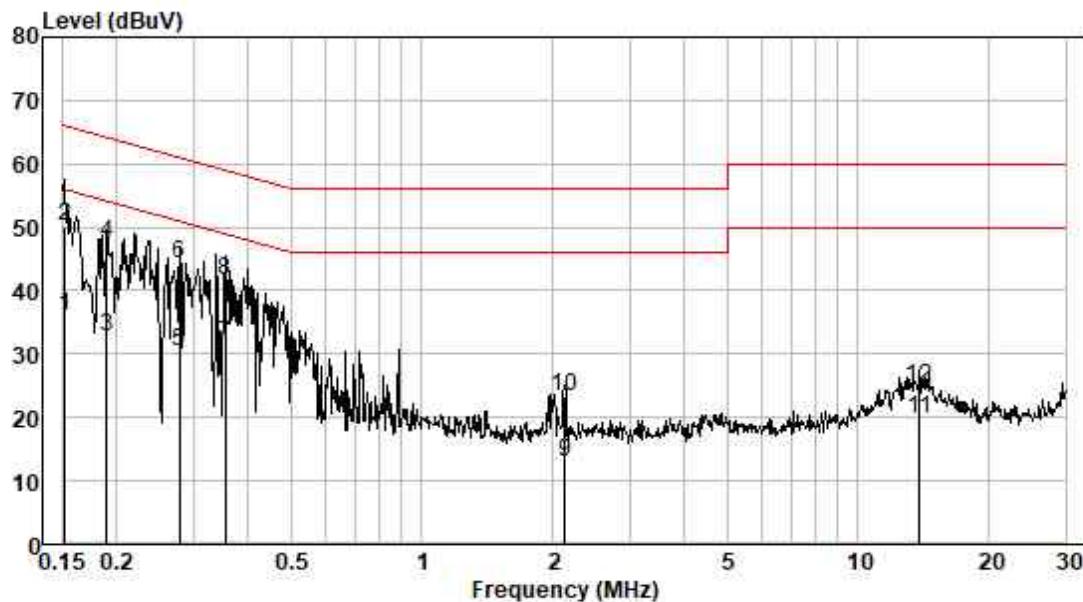
Frequency range: 150KHz-30MHz

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; with D6T30H2B02 motor



Pol :LINE

Mode :

Model :

Power :

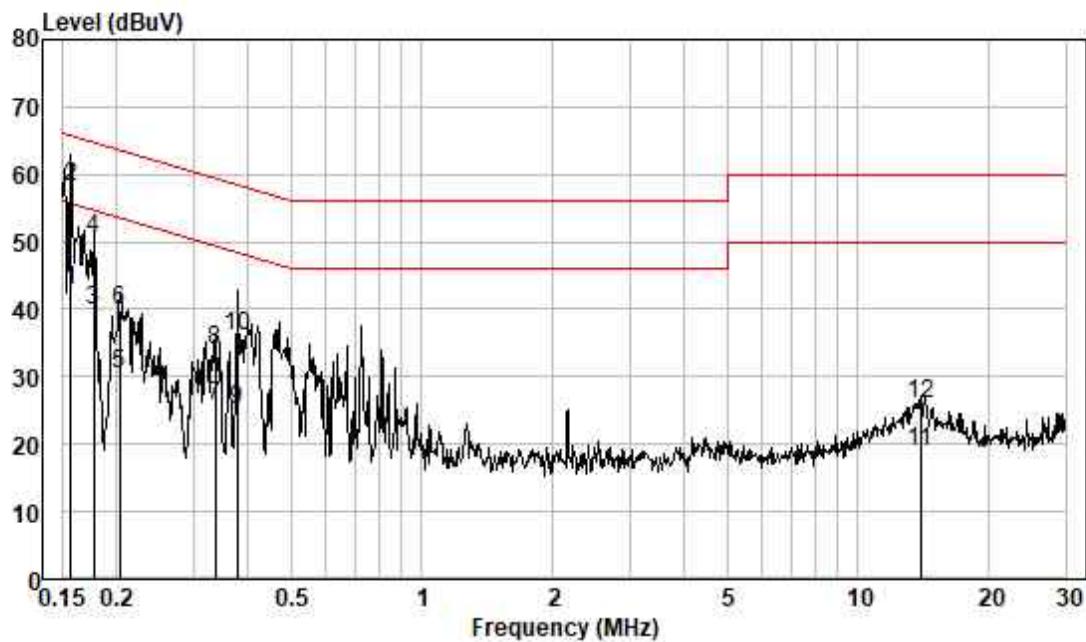
Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	
1 0.152	26.50	0.04	9.57	36.11	55.91	-19.80	Average
2 0.152	40.68	0.04	9.57	50.29	65.91	-15.62	QP
3 0.189	23.08	0.04	9.55	32.67	54.06	-21.39	Average
4 0.189	37.82	0.04	9.55	47.41	64.06	-16.65	QP
5 0.277	20.75	0.04	9.56	30.35	50.90	-20.55	Average
6 0.277	34.63	0.04	9.56	44.23	60.90	-16.67	QP
7 0.354	21.94	0.05	9.58	31.57	48.87	-17.30	Average
8 0.354	31.93	0.05	9.58	41.56	58.87	-17.31	QP
9 2.121	3.21	0.13	9.59	12.93	46.00	-33.07	Average
10 2.121	13.59	0.13	9.59	23.31	56.00	-32.69	QP
11 13.841	9.56	0.31	9.82	19.69	50.00	-30.31	Average
12 13.841	14.63	0.31	9.82	24.76	60.00	-35.24	QP



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Test Mode: 00; Line: Neutral Line; with D6T30H2B02 motor



Pol :NEUTRAL

Mode :

Model :

Power :

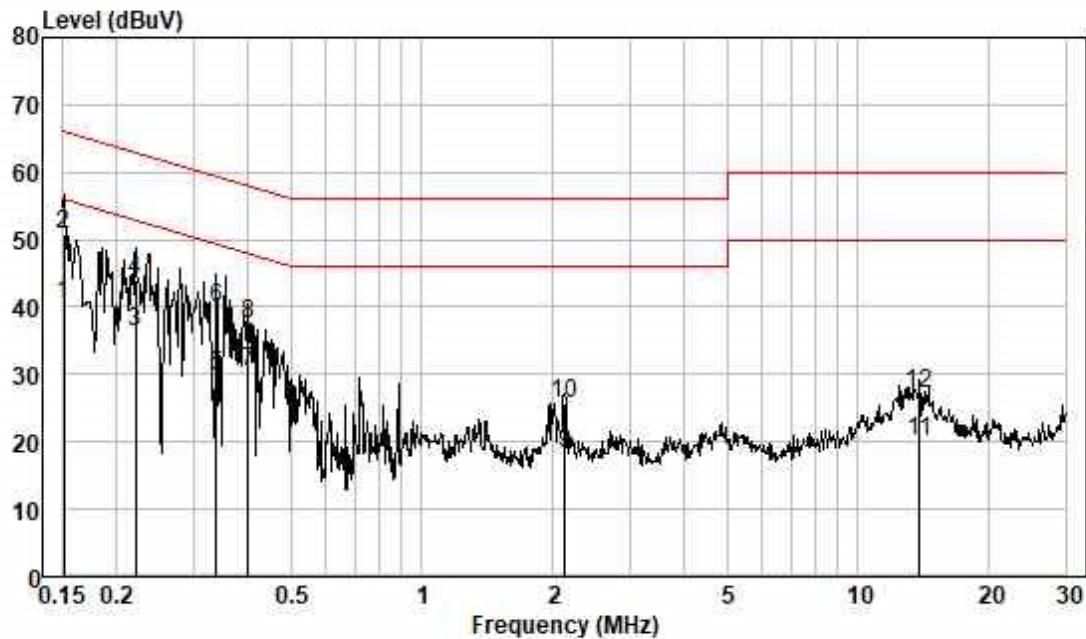
	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	33.28	0.04	9.52	42.84	55.65	-12.81	Average
2	0.156	48.67	0.04	9.52	58.23	65.65	-7.42	QP
3	0.177	30.13	0.04	9.54	39.71	54.64	-14.93	Average
4	0.177	40.95	0.04	9.54	50.53	64.64	-14.11	QP
5	0.203	20.89	0.04	9.55	30.48	53.49	-23.01	Average
6	0.203	30.39	0.04	9.55	39.98	63.49	-23.51	QP
7	0.336	16.23	0.04	9.52	25.79	49.31	-23.52	Average
8	0.336	24.26	0.04	9.52	33.82	59.31	-25.49	QP
9	0.377	15.63	0.05	9.53	25.21	48.34	-23.13	Average
10	0.377	26.44	0.05	9.53	36.02	58.34	-22.32	QP
11	13.915	8.84	0.31	9.88	19.03	50.00	-30.97	Average
12	13.915	15.84	0.31	9.88	26.03	60.00	-33.97	QP



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Test Mode: 00; Line: Live line; with GAL-WBLDC001 motor



Pol :LINE

Mode :

Model :

Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.151	30.98	0.04	9.57	40.59	55.96	-15.37	Average
2	0.151	41.02	0.04	9.57	50.63	65.96	-15.33	QP
3	0.221	26.82	0.04	9.57	36.43	52.79	-16.36	Average
4	0.221	34.26	0.04	9.57	43.87	62.79	-18.92	QP
5	0.337	20.18	0.05	9.58	29.81	49.27	-19.46	Average
6	0.337	30.27	0.05	9.58	39.90	59.27	-19.37	QP
7	0.400	20.77	0.05	9.53	30.35	47.86	-17.51	Average
8	0.400	27.97	0.05	9.53	37.55	57.86	-20.31	QP
9	2.121	8.69	0.13	9.59	18.41	46.00	-27.59	Average
10	2.121	15.97	0.13	9.59	25.69	56.00	-30.31	QP
11	13.841	9.85	0.31	9.82	19.98	50.00	-30.02	Average
12	13.841	17.07	0.31	9.82	27.20	60.00	-32.80	QP

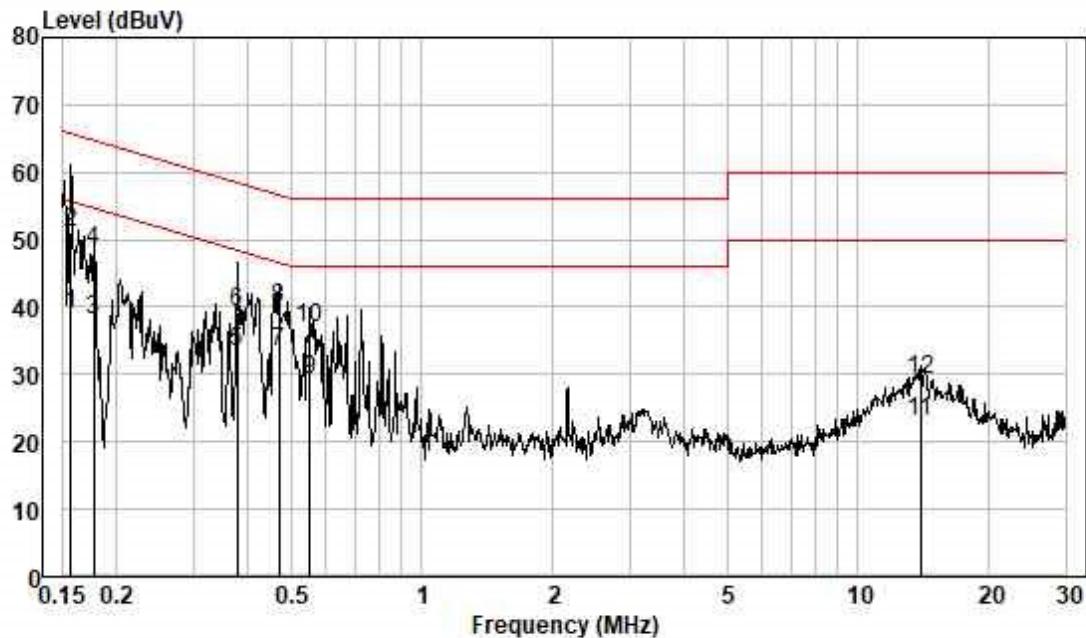
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Test Mode: 00; Line: Neutral Line; with GAL-WBLDC001 motor



Pol :NEUTRAL

Mode :

Model :

Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	29.31	0.04	9.52	38.87	55.65	-16.78	Average
2	0.156	41.62	0.04	9.52	51.18	65.65	-14.47	QP
3	0.177	28.62	0.04	9.54	38.20	54.64	-16.44	Average
4	0.177	38.75	0.04	9.54	48.33	64.64	-16.31	QP
5	0.377	23.91	0.05	9.53	33.49	48.34	-14.85	Average
6	0.377	29.77	0.05	9.53	39.35	58.34	-18.99	QP
7	0.471	23.81	0.05	9.57	33.43	46.49	-13.06	Average
8	0.471	30.25	0.05	9.57	39.87	56.49	-16.62	QP
9	0.552	19.74	0.05	9.57	29.36	46.00	-16.64	Average
10	0.552	27.23	0.05	9.57	36.85	56.00	-19.15	QP
11	13.915	12.81	0.31	9.88	23.00	50.00	-27.00	Average
12	13.915	19.15	0.31	9.88	29.34	60.00	-30.66	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	929.8	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.65 dBuV/m @ 3m distance.

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C      Humidity: 49.9 % RH      Atmospheric Pressure: 1008 mbar

### 6.2.2 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.

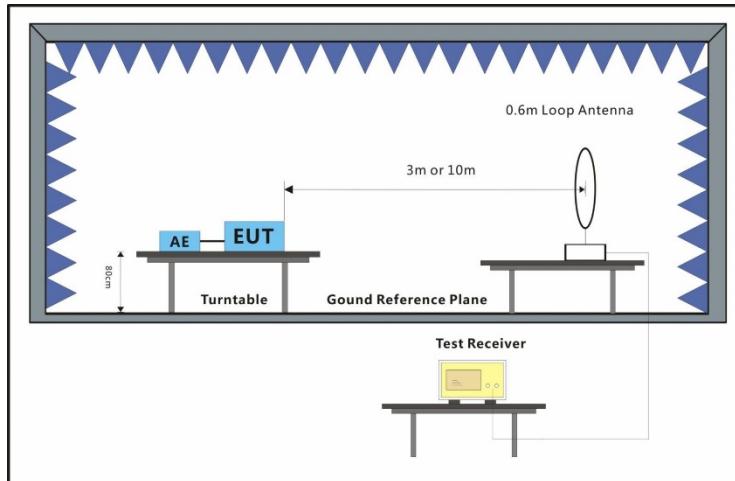
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### 6.2.3 Test Setup Diagram



### 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.

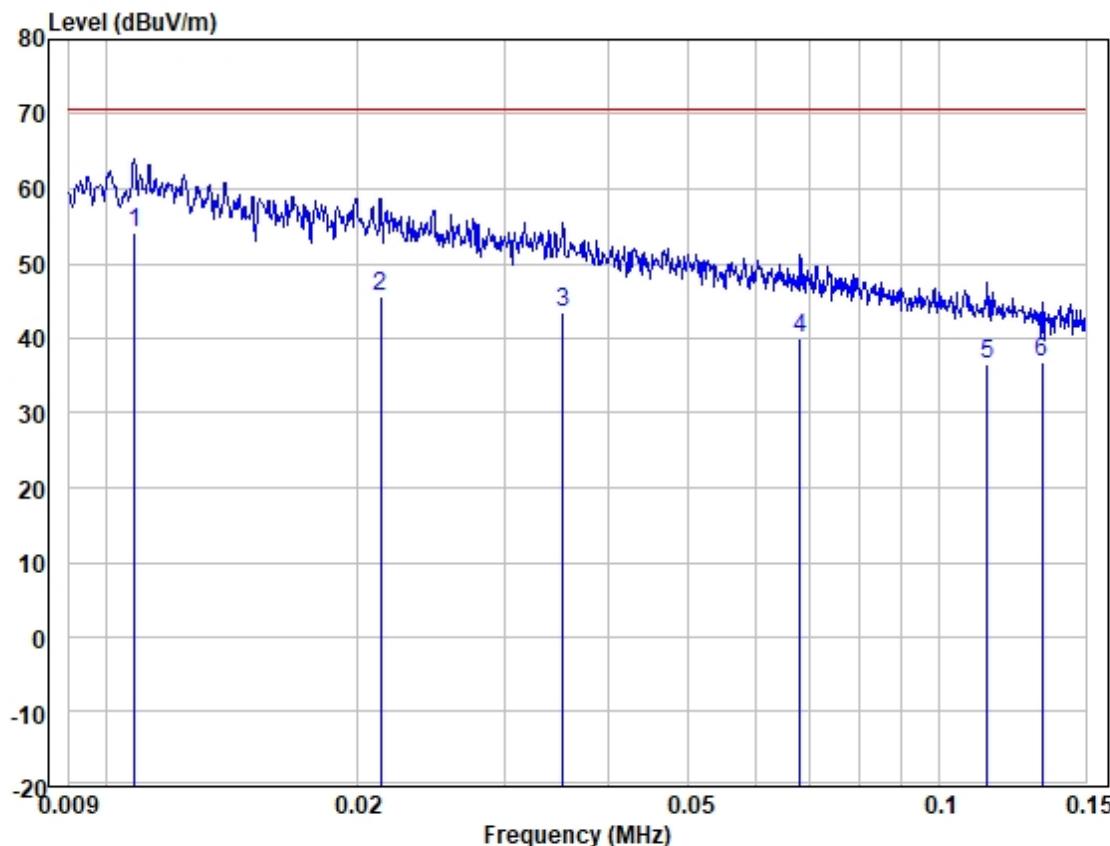
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Test Mode: 00; Polarity: Horizontal



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	0.011	65.63	21.19	0.01	32.72	54.11	70.65	-16.54	HORIZONTAL Average
2	0.021	61.55	16.88	0.01	32.72	45.72	70.65	-24.93	HORIZONTAL Average
3	0.035	60.84	15.37	0.01	32.72	43.50	70.65	-27.15	HORIZONTAL Average
4	0.068	57.99	14.83	0.01	32.72	40.11	70.65	-30.54	HORIZONTAL Average
5	0.114	54.49	14.74	0.01	32.72	36.52	70.65	-34.13	HORIZONTAL Average
6	0.133	54.71	14.72	0.01	32.72	36.72	70.65	-33.93	HORIZONTAL Average

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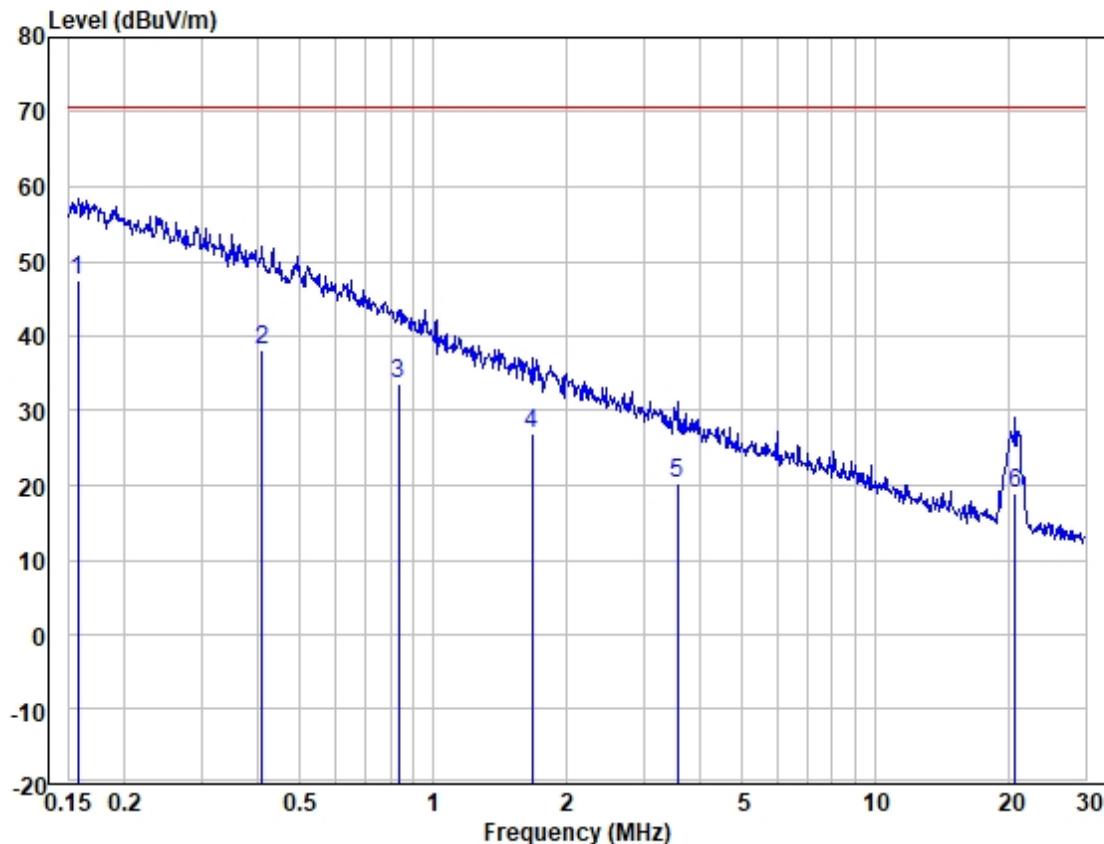
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Test Mode: 00; Polarity: Horizontal



Site : 966 chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	0.157	65.37	14.69	0.01	32.72	47.35	70.65	-23.30	HORIZONTAL Average
2	0.410	56.23	14.54	0.01	32.72	38.06	70.65	-32.59	HORIZONTAL Average
3	0.835	52.41	13.75	0.05	32.70	33.51	70.65	-37.14	HORIZONTAL Average
4	1.671	45.77	13.88	0.06	32.70	27.01	70.65	-43.64	HORIZONTAL Average
5	3.565	39.59	13.25	0.08	32.70	20.22	70.65	-50.43	HORIZONTAL Average
6	20.704	42.26	9.17	0.25	32.73	18.95	70.65	-51.70	HORIZONTAL Average

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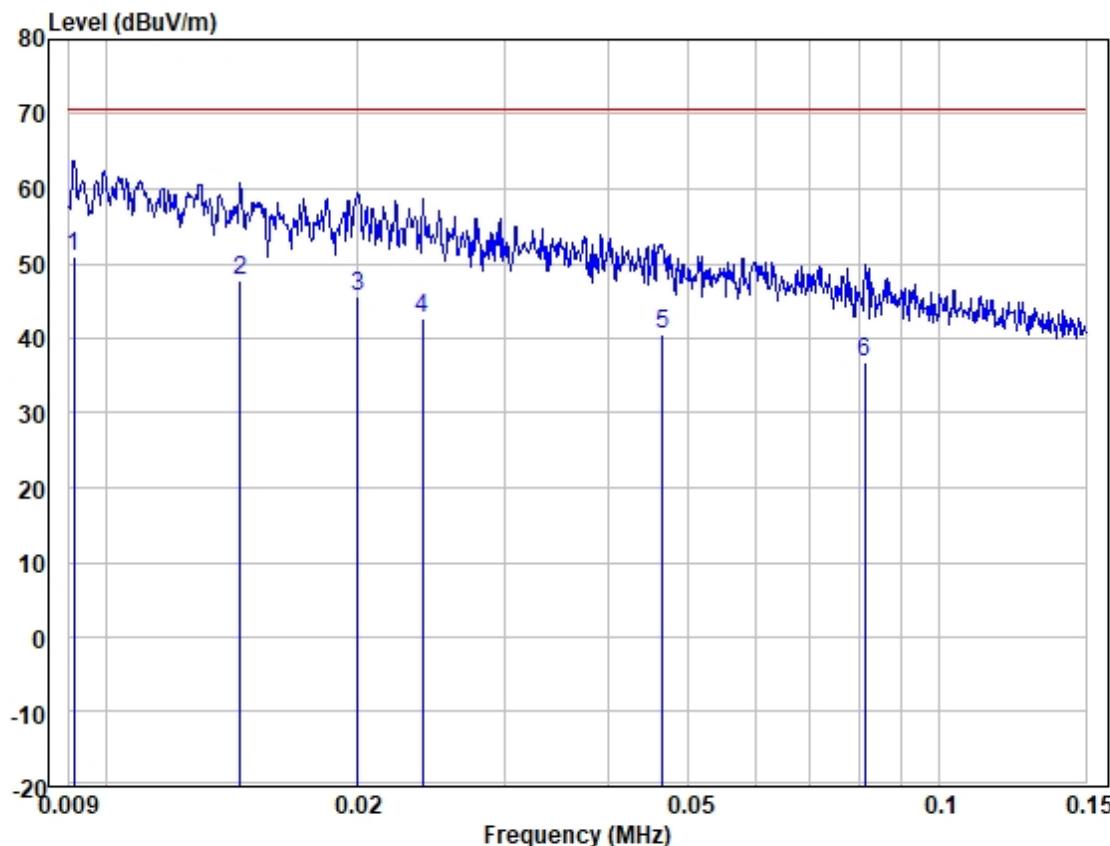
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Test Mode: 00; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 0.009	61.73	21.81	0.01	32.72	50.83	70.65	-19.82	VERTICAL	Average
2 0.014	61.91	18.49	0.01	32.72	47.69	70.65	-22.96	VERTICAL	Average
3 0.020	61.27	17.00	0.01	32.72	45.56	70.65	-25.09	VERTICAL	Average
4 0.024	58.84	16.46	0.01	32.72	42.59	70.65	-28.06	VERTICAL	Average
5 0.047	58.30	15.00	0.01	32.72	40.59	70.65	-30.06	VERTICAL	Average
6 0.081	54.89	14.70	0.01	32.72	36.88	70.65	-33.77	VERTICAL	Average

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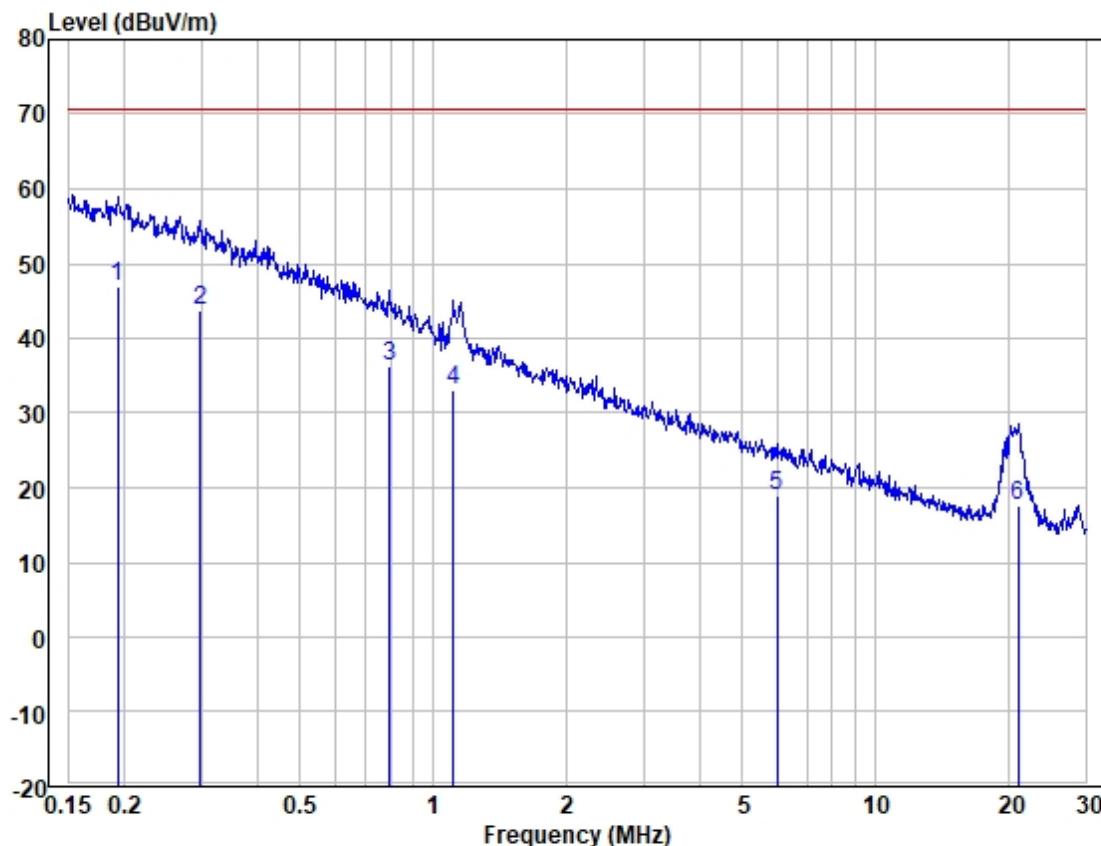
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Test Mode: 00; Polarity: Vertical



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

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dBs/m	dB	dB	dBuA/m	dBuA/m	dB		
1	0.193	64.85	14.67	0.01	32.72	46.81	70.65	-23.84	VERTICAL
2	0.297	61.91	14.64	0.01	32.72	43.84	70.65	-26.81	VERTICAL
3	0.796	55.05	13.93	0.05	32.70	36.33	70.65	-34.32	VERTICAL
4	1.111	52.35	13.37	0.05	32.70	33.07	70.65	-37.58	VERTICAL
5	5.993	38.84	12.71	0.11	32.71	18.95	70.65	-51.70	VERTICAL
6	21.035	40.94	9.03	0.25	32.73	17.49	70.65	-53.16	VERTICAL

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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	929.8	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=70.65 dBuV/m @ 3m distance.

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

Operating Environment:

Temperature: 25.6 °C

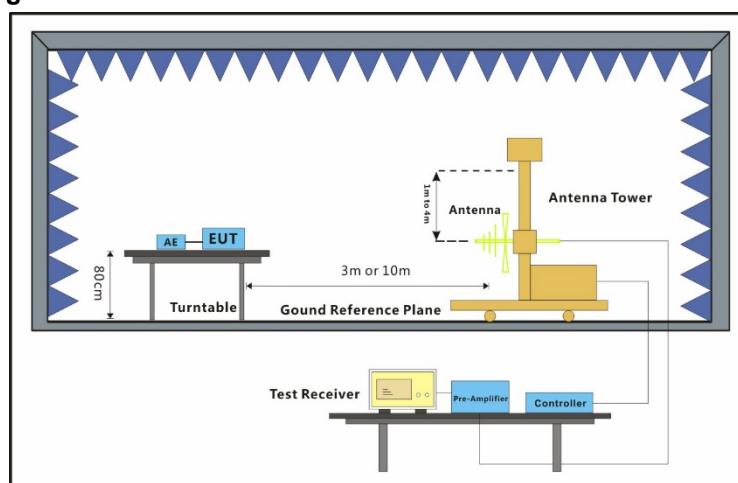
Humidity: 49.9 % RH

Atmospheric Pressure: 1008 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Mode	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.

#### 6.3.3 Test Setup Diagram



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### 6.3.4 Measurement Procedure and Data

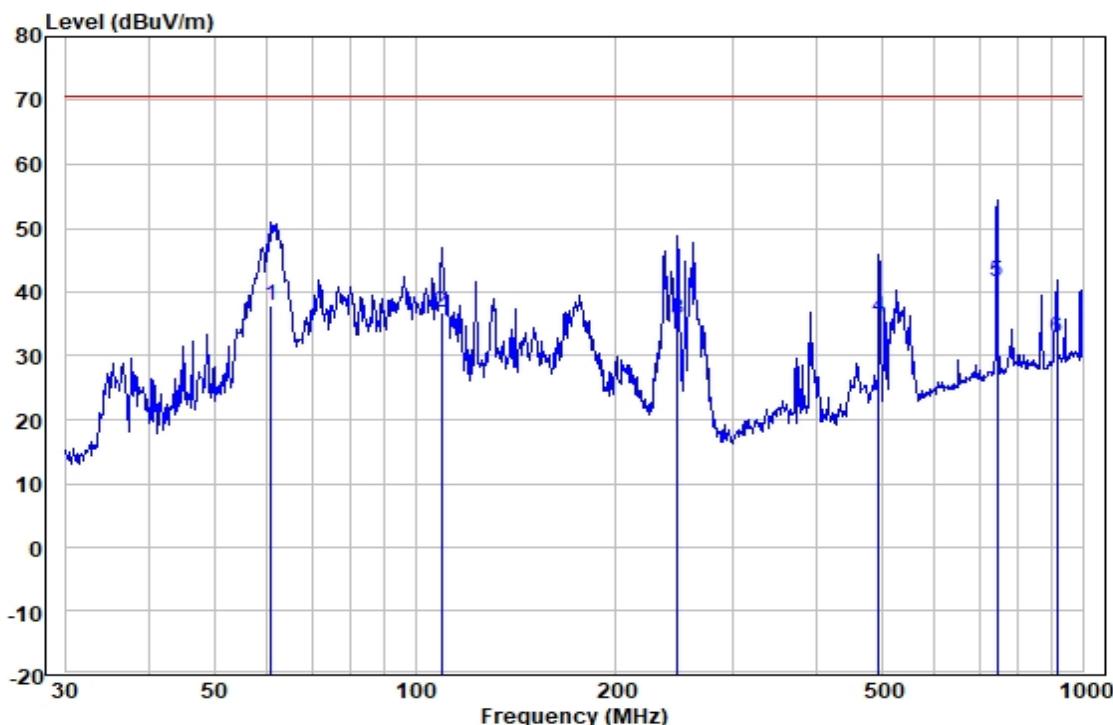
Frequency range: 30MHz-1GHz

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; with D6T30H2B02 motor



Site : 966 Chamber

Job :

Model :

Power :

Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 60.918	51.45	18.82	0.41	32.78	37.90	70.65	-32.75	HORIZONTAL	Average
2 109.412	52.99	16.06	0.57	32.70	36.92	70.65	-33.73	HORIZONTAL	Average
3 246.815	50.27	17.52	0.87	32.84	35.82	70.65	-34.83	HORIZONTAL	Average
4 494.199	44.09	23.44	1.29	32.94	35.88	70.65	-34.77	HORIZONTAL	Average
5 744.866	43.97	27.67	1.59	31.71	41.52	70.65	-29.13	HORIZONTAL	Average
6 912.862	32.74	29.31	1.77	30.96	32.86	70.65	-37.79	HORIZONTAL	Average

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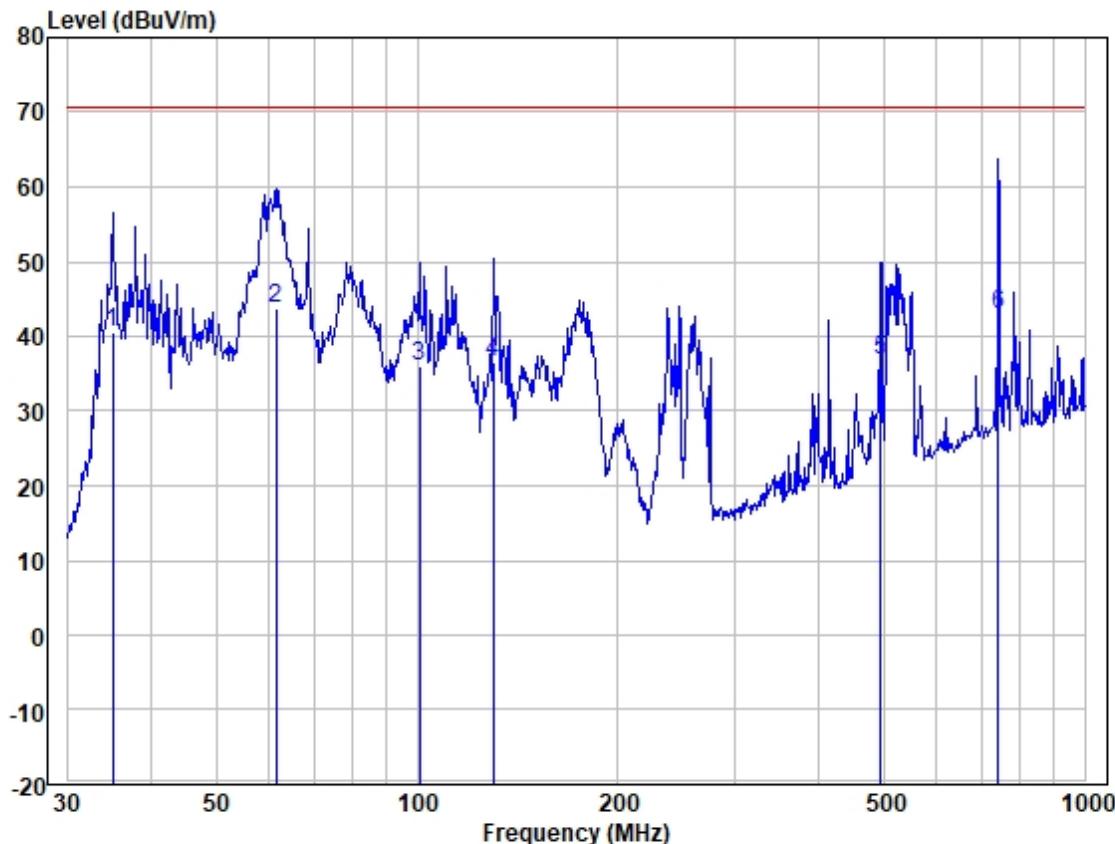
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Test Mode: 00; Polarity: Vertical; with D6T30H2B02 motor



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

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 35.005	54.40	18.57	0.32	32.76	40.53	70.65	-30.12	VERTICAL	Average
2 61.562	57.50	18.70	0.42	32.77	43.85	70.65	-26.80	VERTICAL	Average
3 100.934	53.28	14.86	0.54	32.70	35.98	70.65	-34.67	VERTICAL	Average
4 129.923	50.68	17.87	0.62	32.72	36.45	70.65	-34.20	VERTICAL	Average
5 494.199	45.13	23.44	1.29	32.94	36.92	70.65	-33.73	VERTICAL	Average
6 742.259	45.38	27.60	1.58	31.72	42.84	70.65	-27.81	VERTICAL	Average

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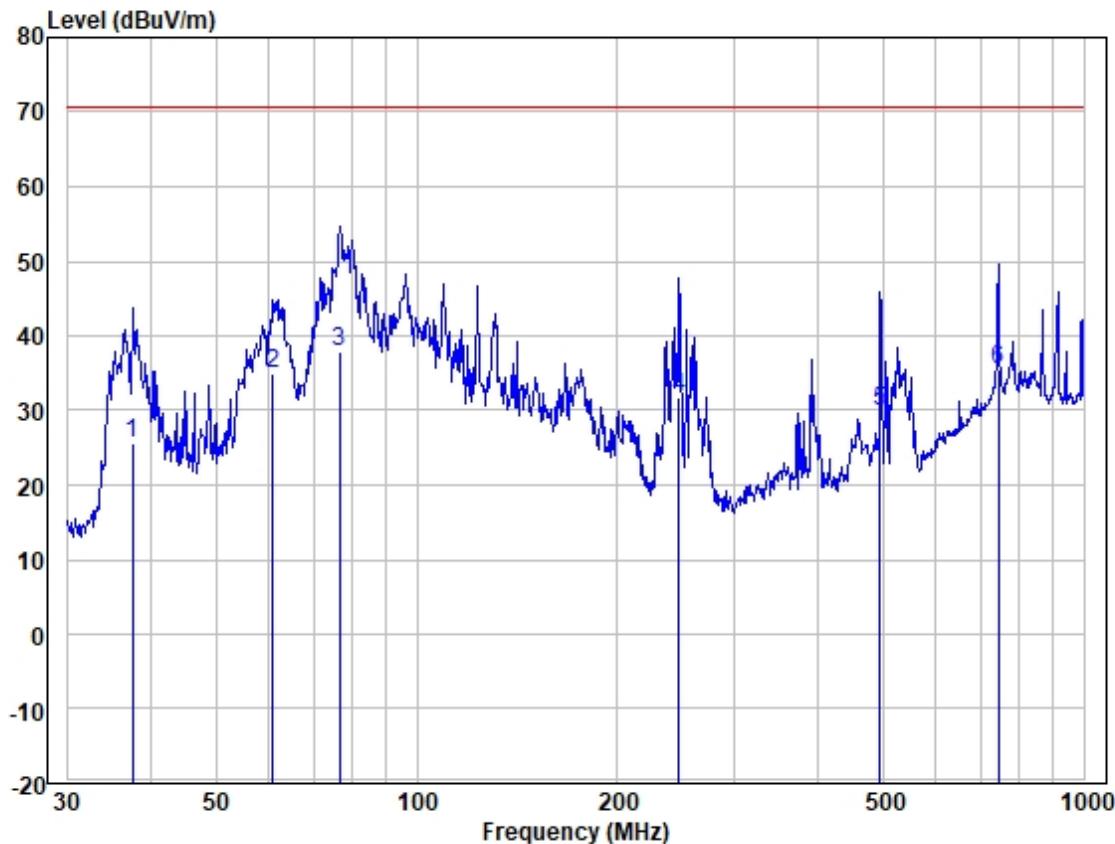


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Test Mode: 00; Polarity: Horizontal; with GAL-WBLDC001 motor



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

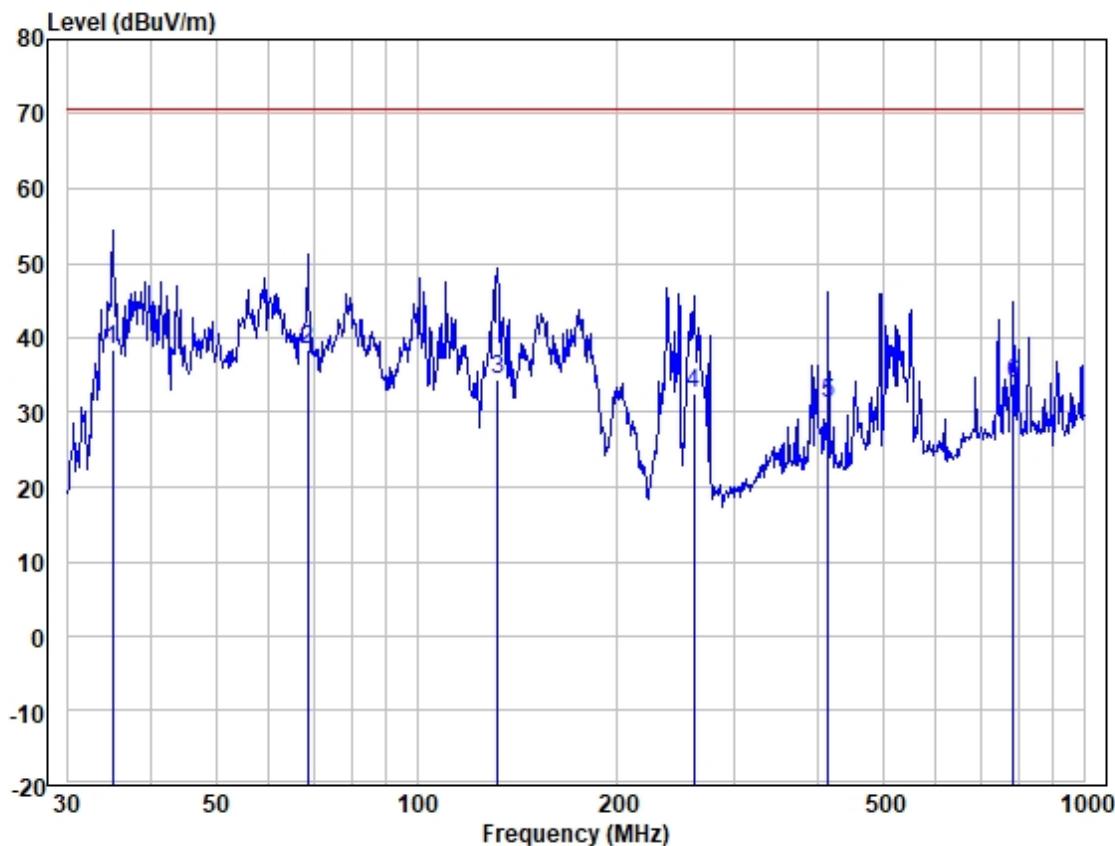
Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	—	—
1 37.548	39.15	18.96	0.34	32.77	25.68	70.65	-44.97	HORIZONTAL	Average
2 60.918	48.45	18.82	0.41	32.78	34.90	70.65	-35.75	HORIZONTAL	Average
3 76.512	54.16	15.85	0.49	32.74	37.76	70.65	-32.89	HORIZONTAL	Average
4 246.815	46.27	17.52	0.87	32.84	31.82	70.65	-38.83	HORIZONTAL	Average
5 494.199	38.09	23.44	1.29	32.94	29.88	70.65	-40.77	HORIZONTAL	Average
6 744.866	37.97	27.67	1.59	31.71	35.52	70.65	-35.13	HORIZONTAL	Average



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Test Mode: 00; Polarity: Vertical; with GAL-WBLDC001 motor



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

Freq MHz	Read Level dBuV	Antena Factor	Cable Loss	Preamp Factor	Measured Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/ Phase	Remark
1 35.005	52.40	18.57	0.32	32.76	38.53	70.65	-32.12	VERTICAL	Average
2 68.631	53.07	17.50	0.46	32.76	38.27	70.65	-32.38	VERTICAL	Average
3 132.221	48.38	18.03	0.63	32.72	34.32	70.65	-36.33	VERTICAL	Average
4 260.144	46.57	17.90	0.92	32.85	32.54	70.65	-38.11	VERTICAL	Average
5 413.271	41.26	21.73	1.17	32.92	31.24	70.65	-39.41	VERTICAL	Average
6 782.345	35.38	28.40	1.65	31.64	33.79	70.65	-36.86	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
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	929.8	dB(uV/m) average: Limit=20lg(25*SQRT(power/ 500))+20lg(300/3)=70.65 dBuV/m @ 3m distance.

### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C      Humidity: 48.2 % RH      Atmospheric Pressure: 1008 mbar

### 6.4.2 Test Mode Description

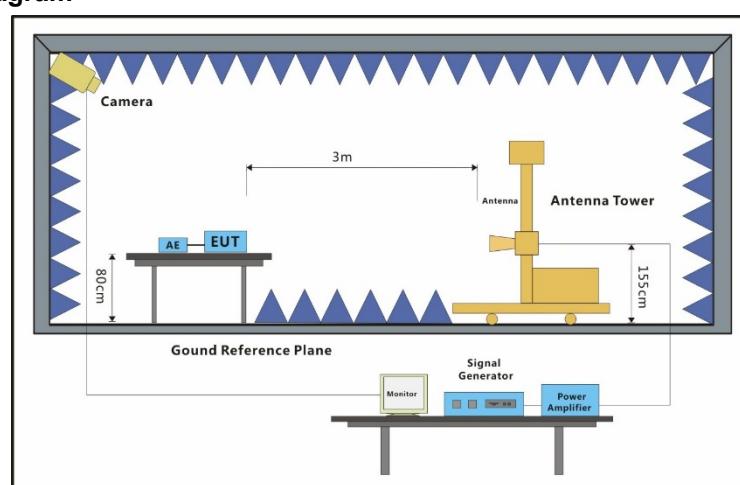
Pre-scan / Mode  
Final test      Code      Description

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



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**6.4.4 Measurement Procedure and Data**

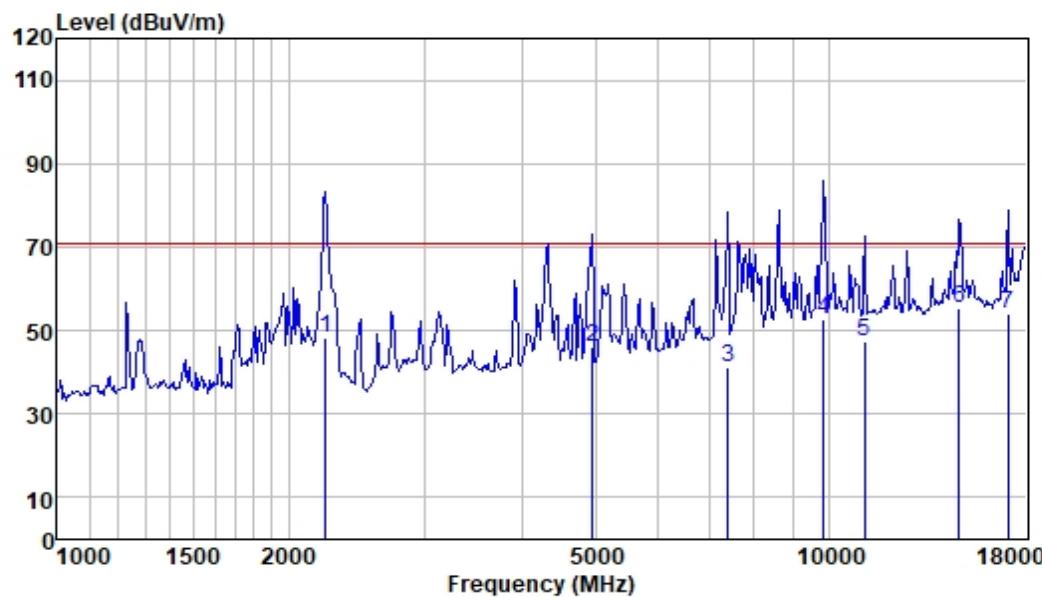
Frequency range: Above 1GHz

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

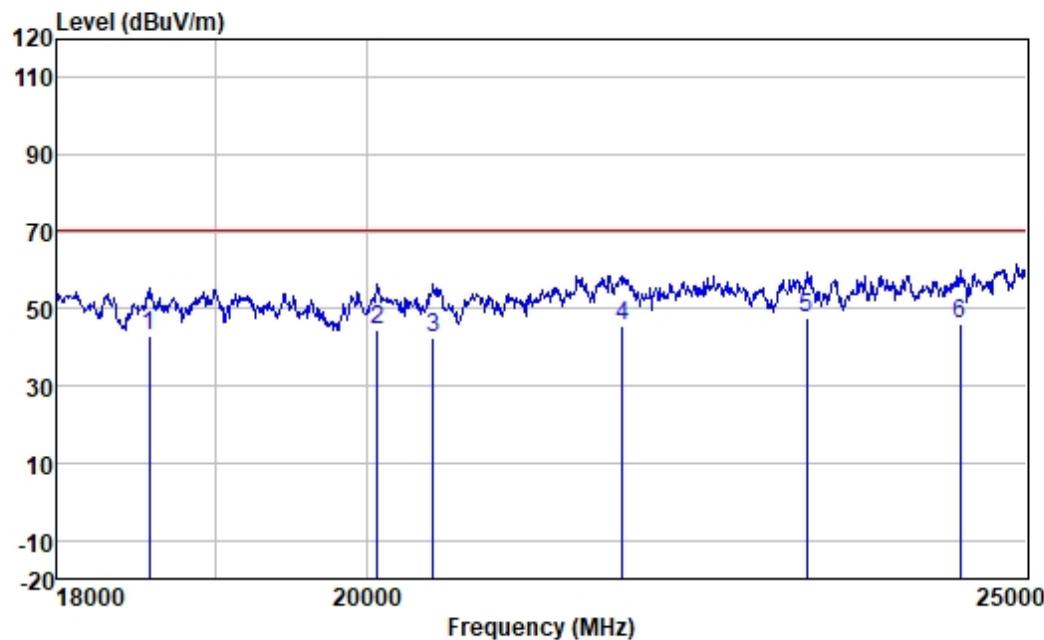


Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2226.950	55.54	27.18	3.29	37.78	48.23	70.65	-22.42 VERTICAL Average
2	4946.855	46.77	31.72	4.88	37.33	46.04	70.65	-24.61 VERTICAL Average
3	7419.967	35.87	36.52	6.01	37.18	41.22	70.65	-29.43 VERTICAL Average
4	9866.789	43.76	39.01	7.17	37.10	52.84	70.65	-17.81 VERTICAL Average
5	11140.310	36.17	40.75	7.54	36.97	47.49	70.65	-23.16 VERTICAL Average
6	14788.150	40.95	42.17	8.79	36.51	55.40	70.65	-15.25 VERTICAL Average
7	17087.460	38.67	42.17	9.45	36.42	53.87	70.65	-16.78 VERTICAL Average

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Test Mode: 00; Polarity: Vertical



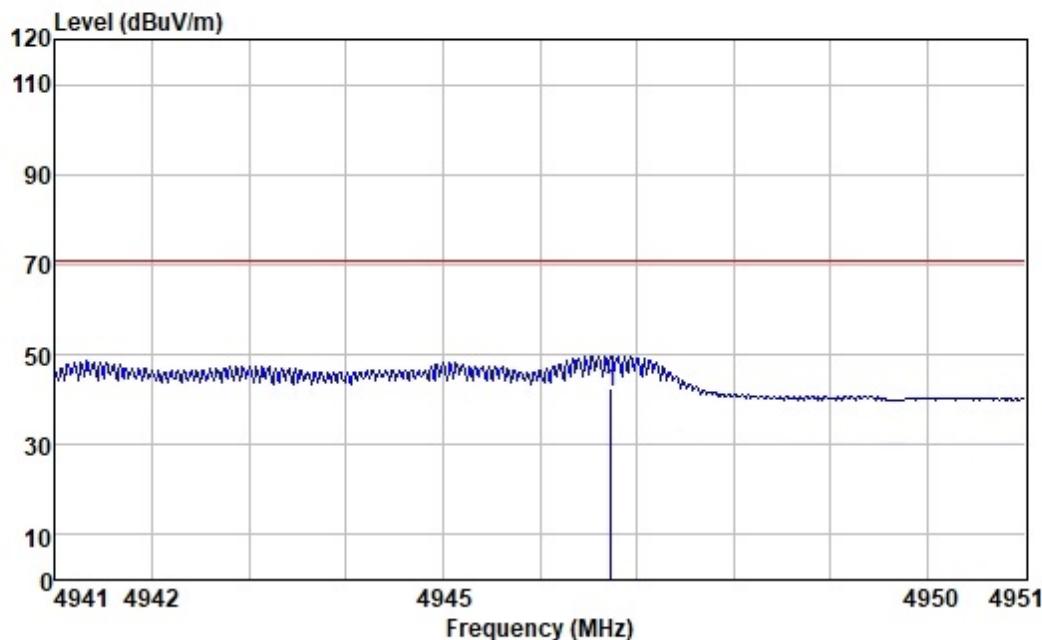
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	18570.600	42.36	36.92	3.14	39.24	43.18	70.65	-27.47	VERTICAL Average
2	20067.600	44.69	37.12	2.99	40.40	44.40	70.65	-26.25	VERTICAL Average
3	20446.900	42.03	37.29	3.10	39.71	42.71	70.65	-27.94	VERTICAL Average
4	21806.720	44.66	37.53	3.33	39.78	45.74	70.65	-24.91	VERTICAL Average
5	23211.180	44.00	38.54	3.35	38.13	47.76	70.65	-22.89	VERTICAL Average
6	24455.770	42.93	38.70	3.42	38.79	46.26	70.65	-24.39	VERTICAL Average



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Test Mode: 00; Polarity: Vertical



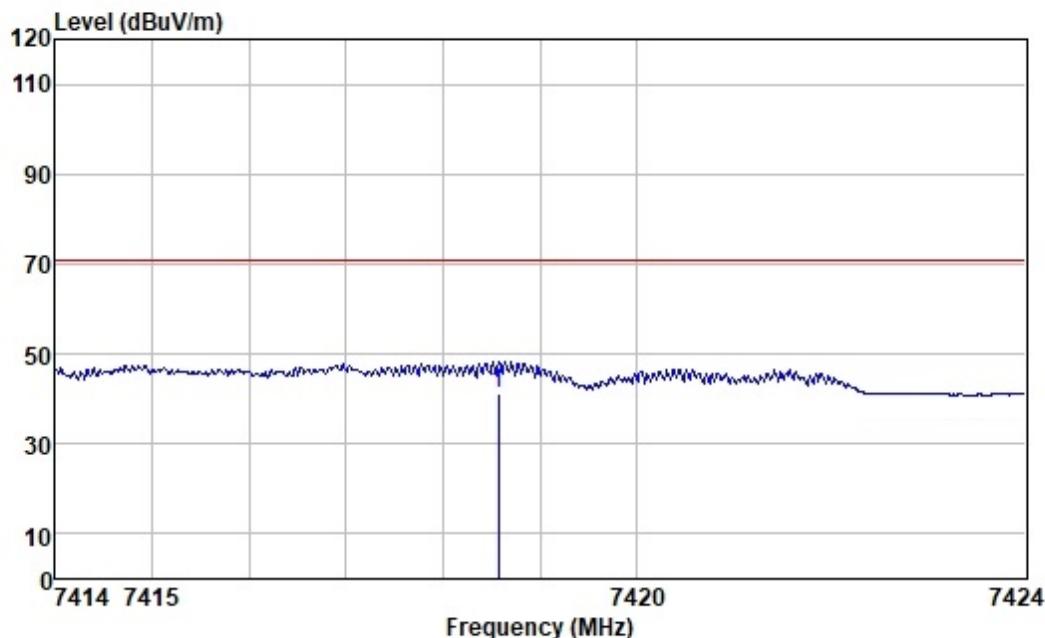
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 4946.728	43.68	31.72	4.88	37.33	42.95	70.65	-27.70	VERTICAL Average



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Test Mode: 00; Polarity: Vertical



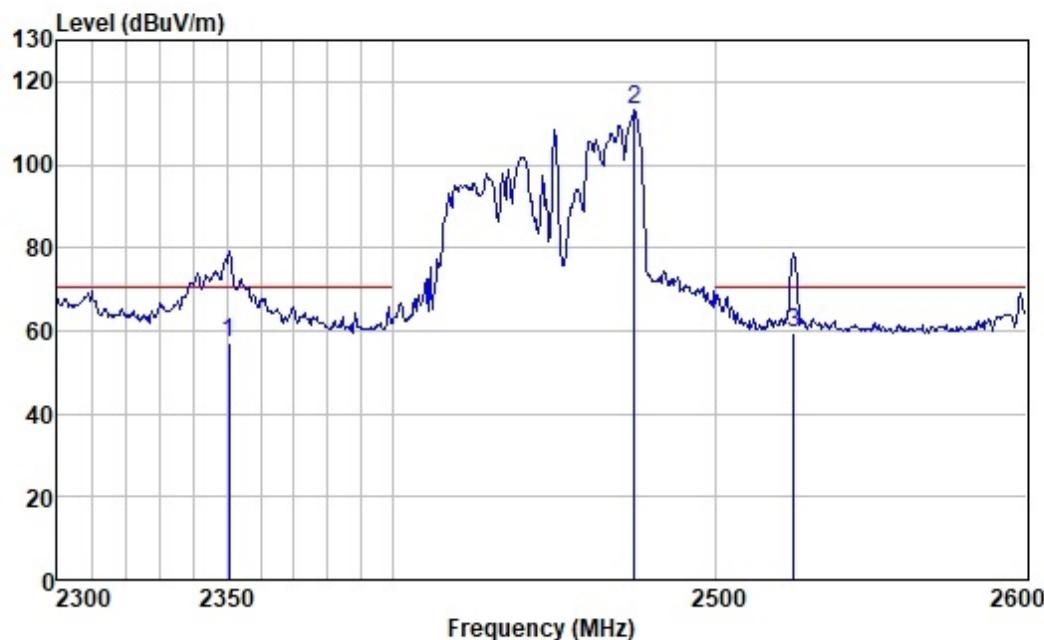
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	7418.568	35.97	36.52	6.01	37.18	41.32	70.65	-29.33 VERTICAL Average



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Test Mode: 00; Polarity: Vertical



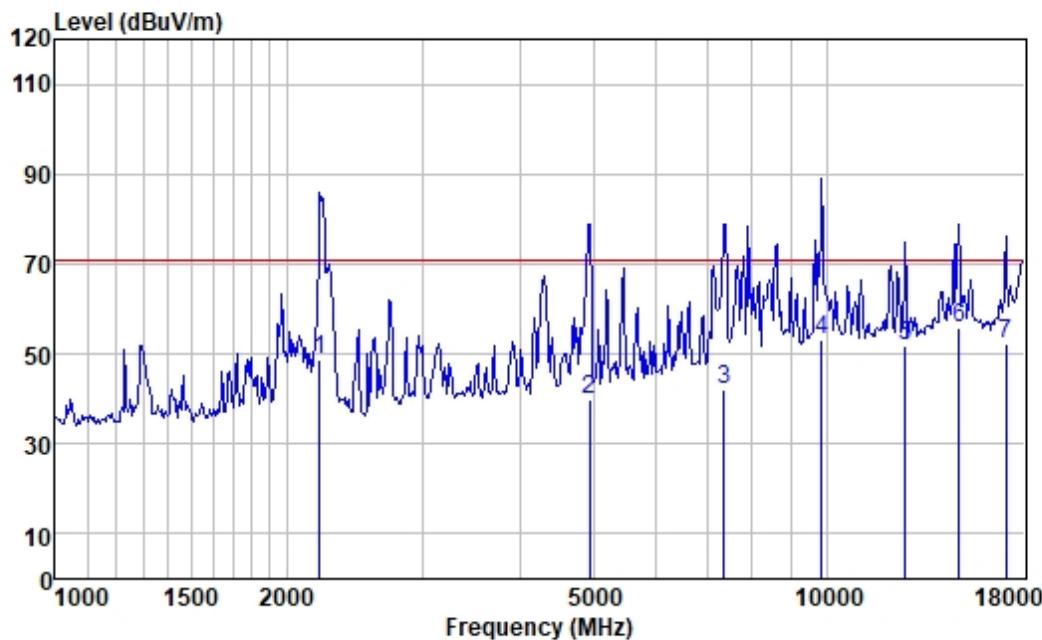
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark	
	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2350.457	26.03	27.57	3.42	0.00	57.02	70.65	-13.63	VERTICAL Average
2	2474.356	81.86	27.74	3.48	0.00	113.08	-----	-----	VERTICAL peak
3	2524.920	28.39	27.79	3.50	0.00	59.68	70.65	-10.97	VERTICAL Average



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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2201.352	56.22	27.07	3.26	37.79	48.76	70.65	-21.89	HORIZONTAL Average
2	4934.286	40.51	31.70	4.88	37.33	39.76	70.65	-30.89	HORIZONTAL Average
3	7373.260	36.66	36.41	6.00	37.18	41.89	70.65	-28.76	HORIZONTAL Average
4	9866.789	43.84	39.01	7.17	37.10	52.92	70.65	-17.73	HORIZONTAL Average
5	12651.130	41.38	39.29	8.00	36.86	51.81	70.65	-18.84	HORIZONTAL Average
6	14873.890	41.32	42.10	8.90	36.51	55.81	70.65	-14.84	HORIZONTAL Average
7	17087.460	37.06	42.17	9.45	36.42	52.26	70.65	-18.39	HORIZONTAL Average

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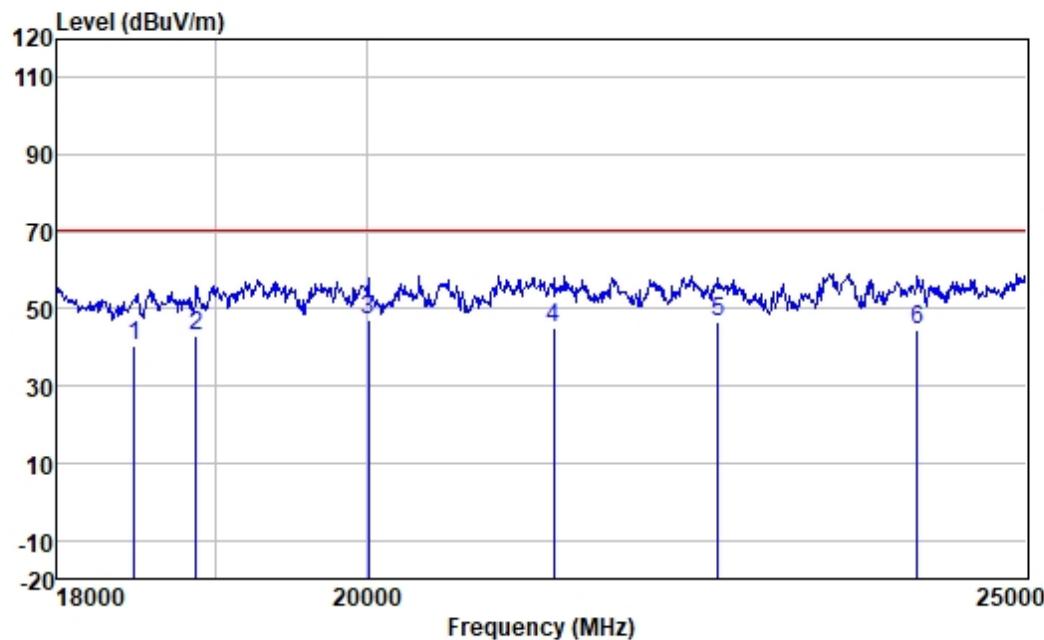
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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1	18479.320	39.65	36.89	3.12	39.20	40.46	70.65	-30.19	HORIZONTAL Average
2	18871.940	42.10	37.06	3.20	39.29	43.07	70.65	-27.58	HORIZONTAL Average
3	20001.790	47.36	37.10	2.97	40.47	46.96	70.65	-23.69	HORIZONTAL Average
4	21303.990	42.98	37.63	3.25	39.00	44.86	70.65	-25.79	HORIZONTAL Average
5	22527.570	44.25	38.13	3.34	38.93	46.79	70.65	-23.86	HORIZONTAL Average
6	24096.900	40.31	38.70	3.45	37.93	44.53	70.65	-26.12	HORIZONTAL Average

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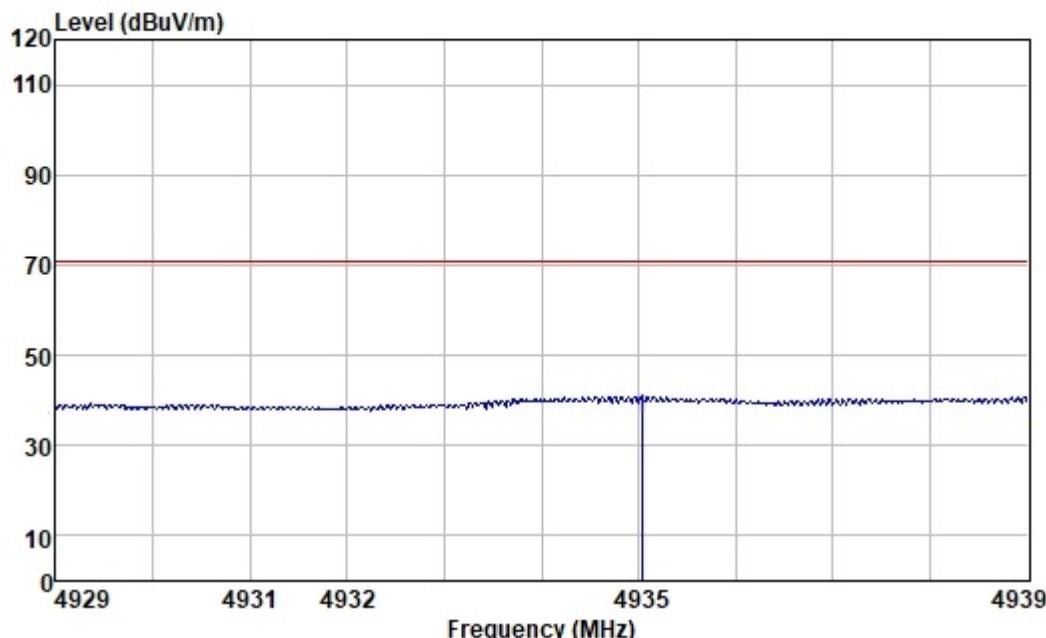
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Test Mode: 00; Polarity: Horizontal



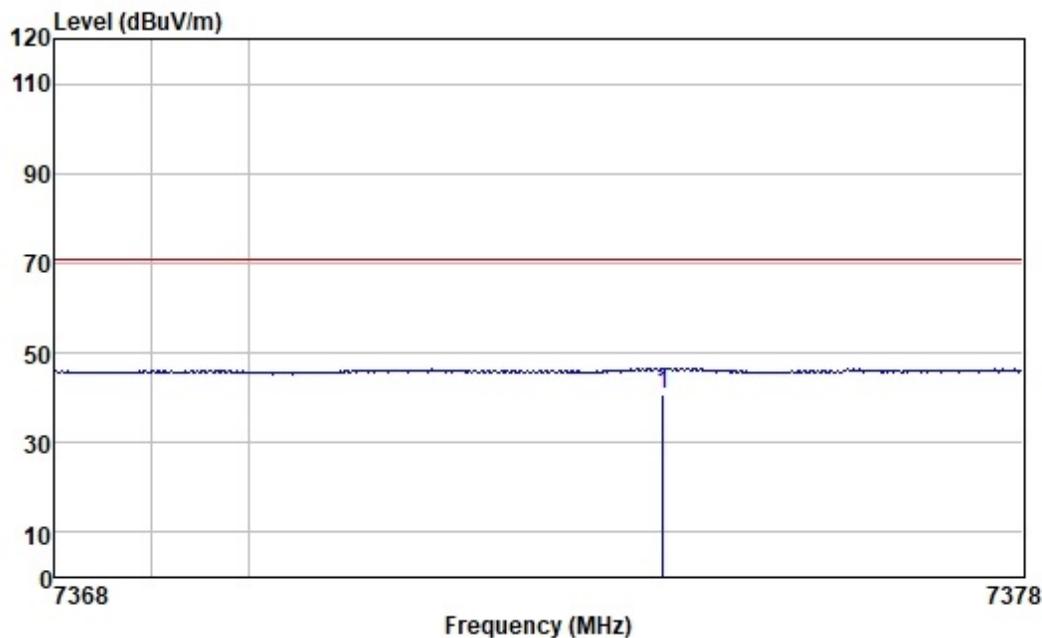
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 4935.027	40.92	31.70	4.88	37.33	40.17	70.65	-30.48	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



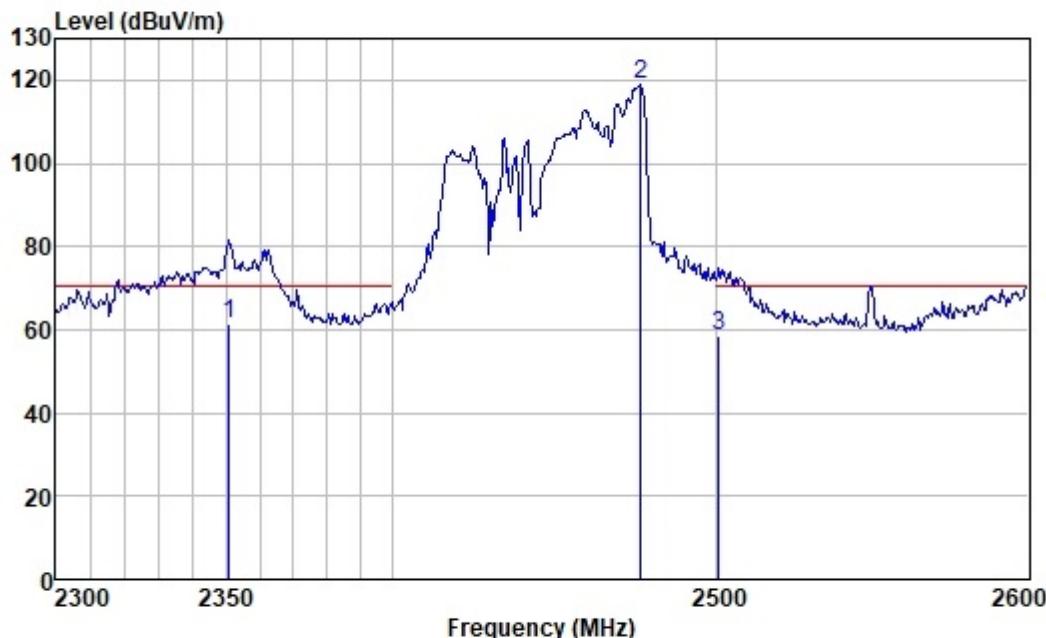
Freq MHz	Read Level	Antenna Factor	Cable Loss Factor	Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 7374.289	36.90	36.41	6.00	37.18	42.13	70.65	-28.52	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2351.033	30.34	27.57	3.42	0.00	61.33	70.65	-9.32 HORIZONTAL Average
2	2476.177	87.53	27.75	3.48	0.00	118.76	-----	----- HORIZONTAL peak
3	2500.890	27.49	27.77	3.49	0.00	58.75	70.65	-11.90 HORIZONTAL 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

$m_w$  is the mass of the water, in grams

$m_c$  is the mass of the container, in grams

$T_0$  is the ambient temperature, in degrees Celsius

$T_1$  is the initial temperature of the water, in degrees Celsius

$T_2$  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: 1008 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**

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1002	417	20.2	9.9	20.1	46	929.8

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.01	12.67	0.945	1437	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( $2450\text{MHz} \pm 50\text{MHz}$ )  
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	$25 * \text{SQRT}(\text{power}/500)$

Power =891.1 W according to clause 6.1.2

Limit= $20\lg(25 * \text{SQRT}(\text{power}/500)) + 20\lg(300/3) = 70.47\text{dBuV/m} @ 3\text{m distance.}$

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	$\pm 15.0\text{kHz}$
13.56MHz	$\pm 7.0\text{kHz}$
27.12MHz	$\pm 163.0\text{kHz}$
40.68MHz	$\pm 20.0\text{kHz}$
915MHz	$\pm 13.0\text{MHz}$
<b>2450MHz</b>	<b><math>\pm 50.0\text{MHz}</math></b>
5800MHz	$\pm 75.0\text{MHz}$
24125MHz	$\pm 125.0\text{MHz}$
61.25GHz	$\pm 250.0\text{MHz}$
122.5GHz	$\pm 500.0\text{MHz}$
245.00GHz	$\pm 1.0\text{GHz}$



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**6.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 25.7 °C      Humidity: 48.0 % RH      Atmospheric Pressure: 1008 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.

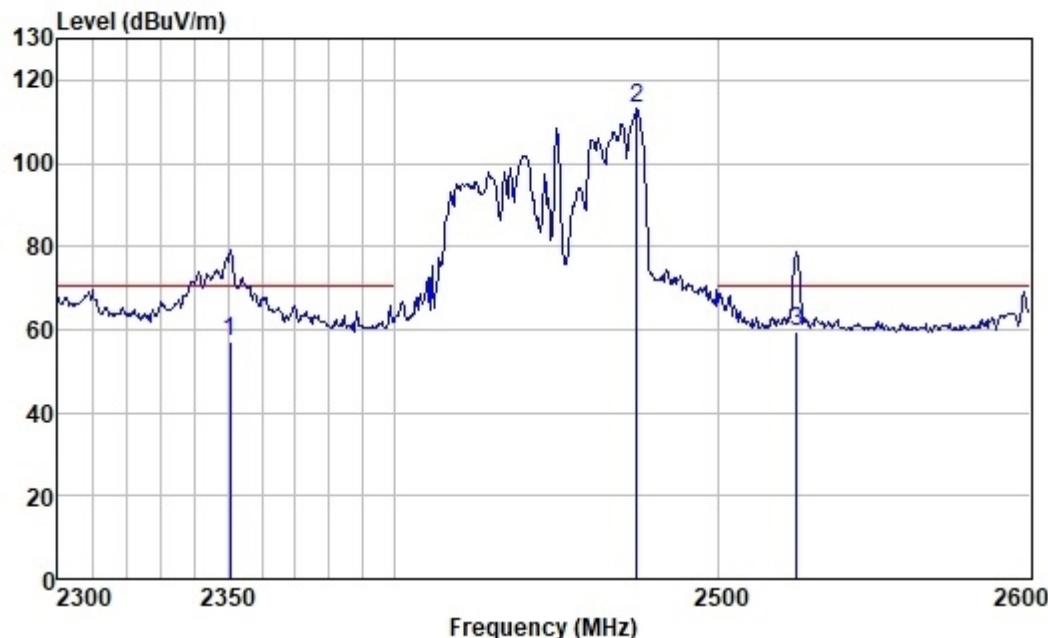


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## 6.6.3 Measurement Procedure and Data

Test Mode: 00; Polarity: Vertical



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2350.457	26.03	27.57	3.42	0.00	57.02	70.65	-13.63
2	2474.356	81.86	27.74	3.48	0.00	113.08	-----	-----
3	2524.920	28.39	27.79	3.50	0.00	59.68	70.65	-10.97

## 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.

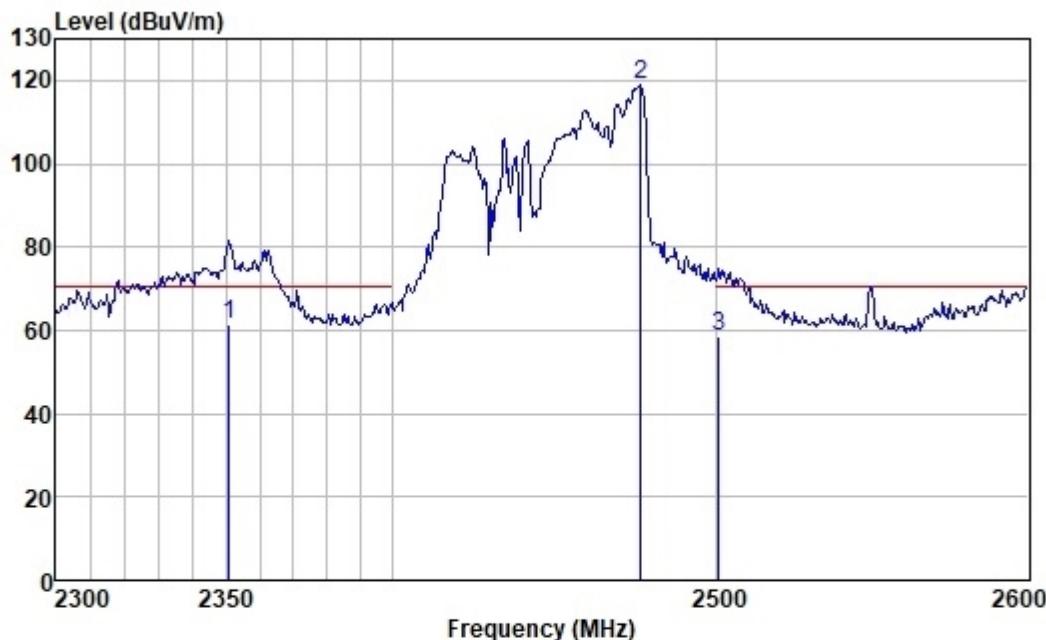
ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2474.356



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Test Mode: 00; Polarity: Horizontal



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2351.033	30.34	27.57	3.42	0.00	61.33	70.65	-9.32	HORIZONTAL Average
2	2476.177	87.53	27.75	3.48	0.00	118.76	-----	-----	HORIZONTAL peak
3	2500.890	27.49	27.77	3.49	0.00	58.75	70.65	-11.90	HORIZONTAL Average

The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was set 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	2476.177



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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: 25.6 °C      Humidity: 49.8 % RH      Atmospheric Pressure: 1008 mbar

### 6.7.2 Test Mode Description

Pre-scan / Mode	Final test	Code	Description
Pre-scan	Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	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
0.075	1	Pass



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM250600403602



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## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2506004036HS

- End of the Report -



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, Testing Center, EEC Laboratory.

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