



Report No.: GZEM191101701102

Page: 1 of 42

FCC ID: UHW11034004

## TEST REPORT

**Application No.:** GZEM1911017011HS  
**Applicant:** Guangdong Galanz Enterprises Co., Ltd.  
**Address of Applicant:** 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China  
**Manufacturer:** Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.  
**Address of Manufacturer:** 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.  
**Factory:** Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd.  
**Address of Factory:** 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.  
**Equipment Under Test (EUT):**  
**FCC ID:** UHW11034004  
**EUT Name:** Microwave Oven  
**Model No.:** GSWWD13S1S11, GSWWD13S2S11, GSWWD13BKS11,  
GSWWD13S1S11E, P11034DAPH-WD, P11034(X)-(Y) series,  
P11034(X)H-(Y) series

P: with microwave function only

110: denote the output power is 1100W

34: denote different cavity in 34 liters.

Variable (X) may be

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

"L" is pull-out type door, P is push-button type door. When there is "A", "E", "M", "MY" "DA" denote the electrical control model. "S" denotes stainless steel cavity; "T" denotes the painted cavity; When there is neither "S" nor "T" before "L", "P" denotes the epoxy painted cavity, "H" denotes the humidity sensor.

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.

GSWWD13S1S11, GSWWD13S2S11, GSWWD13BKS11, GSWWD13S1S11E are identical to P11034DAPH-WD except for the model name and brand name. □

□

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

**Trade Mark:** Galanz  
**Standard(s) :** 47 CFR Part 18  
**Date of Receipt:** 2019-11-13  
**Date of Test:** 2019-11-23 to 2020-03-30  
**Date of Issue:** 2020-04-01

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

Kobe Jian


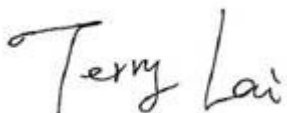
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-04-01		Original

Authorized for issue by:			
Tested By	 Damon_Guan /Project Engineer		2019-11-23 to 2020-03-30
			Date
Checked By	 Terry_Lai /Reviewer		2020-04-01
			Date



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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
Operating Frequency Measurement	47 CFR Part 18	FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test	47 CFR Part 18	FCC OST/MP-5:1986	1 mW/cm <sup>2</sup>	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	18.305	Pass
N/A: not applicable.				

### Declaration of EUT Family Grouping:

Model No.: GSWWD13S1S11, GSWWD13S2S11, GSWWD13BKS11, GSWWD13S1S11E, P11034DAPH-WD, P11034(X)-(Y) series, P11034(X)H-(Y) series

P: with microwave function only

110: denote the output power is 1100W

34: denote different cavity in 34 liters.

Variable (X) may be

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

"L" is pull-out type door, P is push-button type door. When there is "A", "E", "M", "MY" "DA" denote the electrical control model. "S" denotes stainless steel cavity; "T" denotes the painted cavity; When there is neither "S" nor "T" before "L", "P" denotes the epoxy painted cavity, "H" denotes the humidity sensor.

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.

GSWWD13S1S11, GSWWD13S2S11, GSWWD13BKS11, GSWWD13S1S11E are identical to P11034DAPH-WD except for the model name and brand name.

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, door open method, cavity material, humidity sensor, model name and brand name.

Therefore only one model P11034DAPH-WD was tested in this report.



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 Guangzhou Branch Testing & Inspection EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



## 4 General Information

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

Power Supply: AC 120V 60Hz  
 Test Voltage: AC 120V 60Hz  
 Cable: About 1.0m x 3 wires unscreened AC mains cable.

### 4.2 Description of Support Units

Load for microwave ovens for testing:

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.
770mL of water for all other measurement

### 4.3 Measurement Uncertainty

EMC

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	±3.63dB (9kHz to 150kHz)
		±3.22dB (150kHz to 30MHz)
2	Disturbance Power	±3.78dB
3	Radiated Emissions	±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-6GHz)

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

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:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **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.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **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, Jul 13, 2017.

● **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 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
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10
LISN	R&S	ENV216	EMC2135	2019-09-16	2020-09-15
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	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	2019-05-21	2020-05-20



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz-18GHz	R & S	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2019-01-11	2020-01-10
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2020-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15
AC Power Source	California	50001iX	EMC0608	2020-03-27	2021-03-26
Power Analyzer	California	PACS	EMC0607	2020-03-27	2021-03-26
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A



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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
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	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

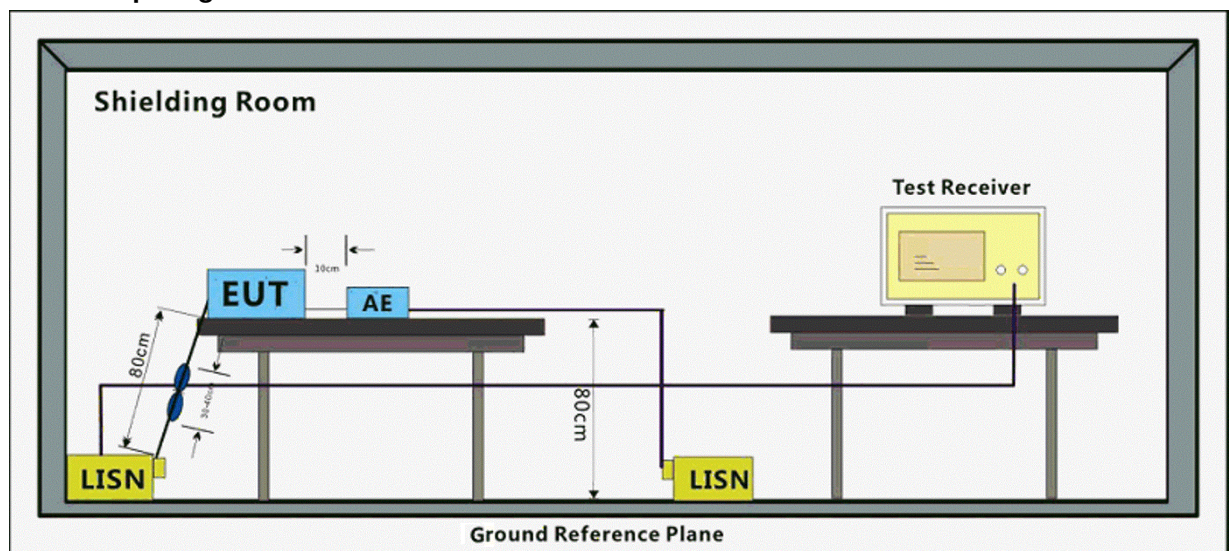
Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode  
a: Test the EUT in microwave mode with maximum power.  
b: Test the EUT in microwave mode with middle power.  
c: Test the EUT in microwave mode with lowest power.

Worst mode a: Test the EUT in microwave mode with maximum power.

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

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.

Measured Level = Read level + Cable Loss + LISN Factor



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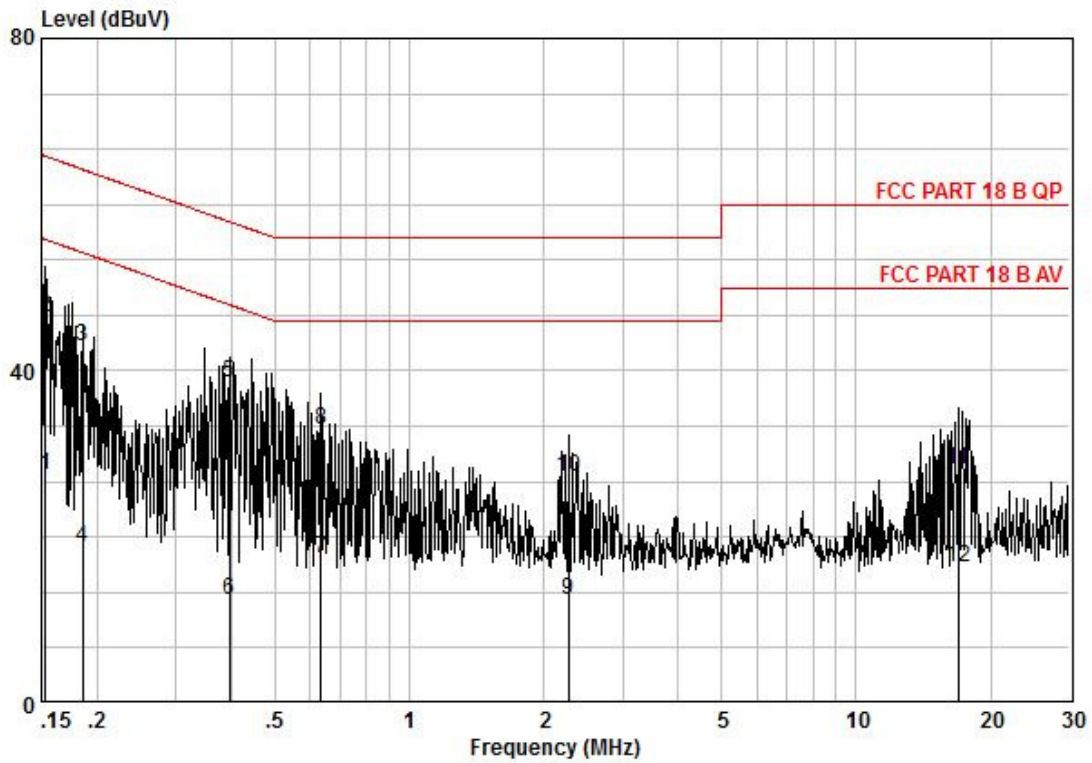
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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center EEC Laboratory

No. 198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



Mode:a; Line:Live Line

Pol :LIVE  
No :  
Model :

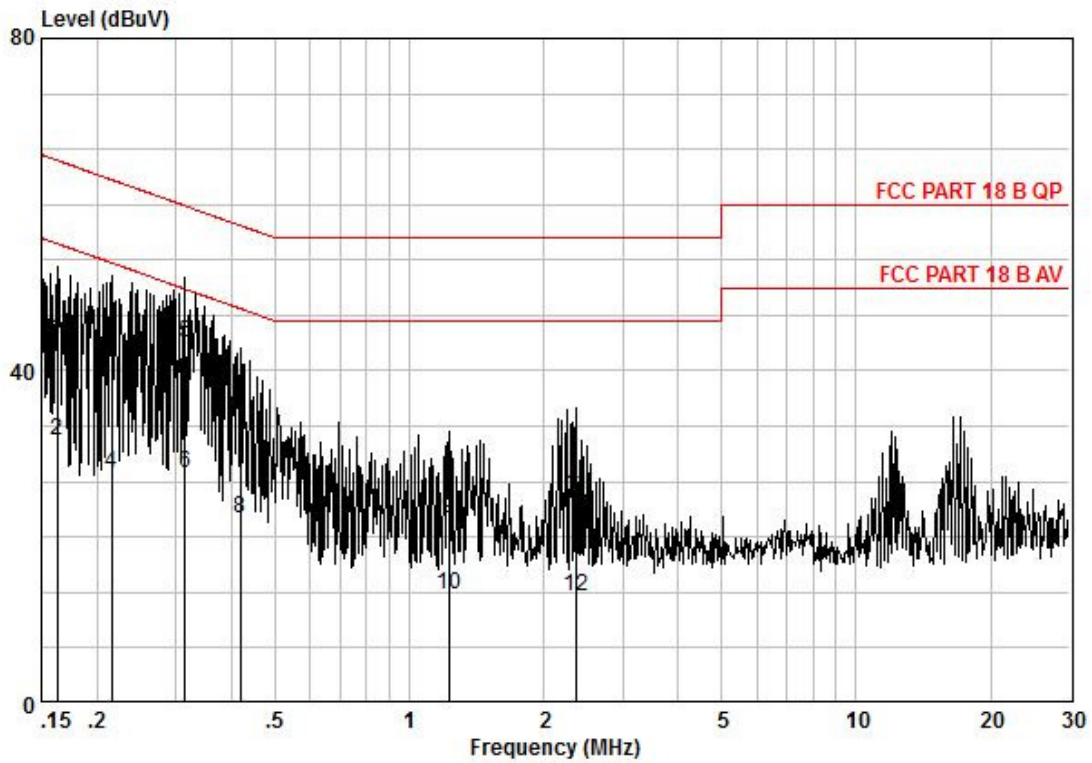
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.15	17.79	0.10	9.67	27.56	55.82	-28.27	AVERAGE
0.15	36.59	0.10	9.67	46.36	65.82	-19.47	QP
0.19	33.29	0.10	9.66	43.05	64.24	-21.19	QP
0.19	9.00	0.10	9.66	18.76	54.24	-35.48	AVERAGE
0.40	28.90	0.10	9.66	38.66	57.95	-19.29	QP
0.40	2.57	0.10	9.66	12.33	47.95	-35.62	AVERAGE
0.63	7.62	0.10	9.67	17.39	46.00	-28.61	AVERAGE
0.63	23.10	0.10	9.67	32.87	56.00	-23.13	QP
2.27	2.68	0.13	9.69	12.50	46.00	-33.50	AVERAGE
2.27	17.51	0.13	9.69	27.33	56.00	-28.67	QP
16.93	17.91	0.40	9.81	28.12	60.00	-31.88	QP
16.93	6.20	0.40	9.81	16.41	50.00	-33.59	AVERAGE



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Mode:a; Line:Neutral Line

Pol : NEUTRAL  
No :  
Model :

Frequency MHz	read level dBUV	Cable Loss dB	LISN Factor dB	Measured level dBUV	Limit Line dBUV	Over limit dB	Remark
0,16	34,17	0,10	9,59	43,86	65,34	-21,48	QP
0,16	21,96	0,10	9,59	31,65	55,34	-23,69	AVERAGE
0,22	33,91	0,10	9,60	43,61	63,01	-19,40	QP
0,22	18,00	0,10	9,60	27,70	53,01	-25,31	AVERAGE
0,31	33,76	0,10	9,59	43,45	59,84	-16,39	QP
0,31	17,99	0,10	9,59	27,68	49,84	-22,16	AVERAGE
0,42	27,25	0,10	9,59	36,94	57,46	-20,52	QP
0,42	12,51	0,10	9,59	22,20	47,46	-25,26	AVERAGE
1,22	12,58	0,10	9,61	22,29	56,00	-33,71	QP
1,22	3,33	0,10	9,61	13,04	46,00	-32,96	AVERAGE
2,37	15,23	0,14	9,62	24,99	56,00	-31,01	QP
2,37	3,10	0,14	9,62	12,86	46,00	-33,14	AVERAGE



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**6.1 RF Output Power Measurement**

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

**6.1.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.2 °C Humidity: 51.7 % RH Atmospheric Pressure: 1018 mbar

Test mode a: Test the EUT in microwave mode with maximum power.

**6.1.2 Measurement Data**

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time(s)	Power output (watts)
1104	410	20.7	10.2	20.8	47	1043.0

**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 gramsm<sub>c</sub> is the mass of the container, in gramsT<sub>0</sub> is the ambient temperature, in degrees CelsiusT<sub>1</sub> is the initial temperature of the water, in degrees CelsiusT<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.

**6.1.3 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.

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.1	13.27	0.934	1489	1500



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## 6.2 Radiation Hazard Test

Test Requirement: 47 CFR Part 18  
 Test Method: FCC OST/MP-5:1986  
 Test distance: Five centimeters from the oven surface

### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.2 °C Humidity: 51.7 % RH Atmospheric Pressure: 1018 mbar  
 Test mode a: Test the EUT in microwave mode with maximum power.

### 6.2.2 Measurement Data

Maximum measure level (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass/Fail
0.028	1.00	Pass



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### 6.3 Operating Frequency

Test Requirement: 47 CFR Part 18  
 Test Method: FCC OST/MP-5:1986  
 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 =1043.0 W according to clause 6.1.2

Limit=20lg(25\*SQRT(power/500))+20lg(300/3)=31.15+40=71.15dBuV/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

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

Operating Environment:

Temperature: 23.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1020 mbar

Test mode  
 a: Test the EUT in microwave mode with maximum power.  
 b: Test the EUT in microwave mode with middle power.  
 c: Test the EUT in microwave mode with lowest power.

Worst mode  
 a: Test the EUT in microwave mode with maximum power.



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### 6.3.2 Measurement Data

#### 1) 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	2463

#### 2) 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	2458

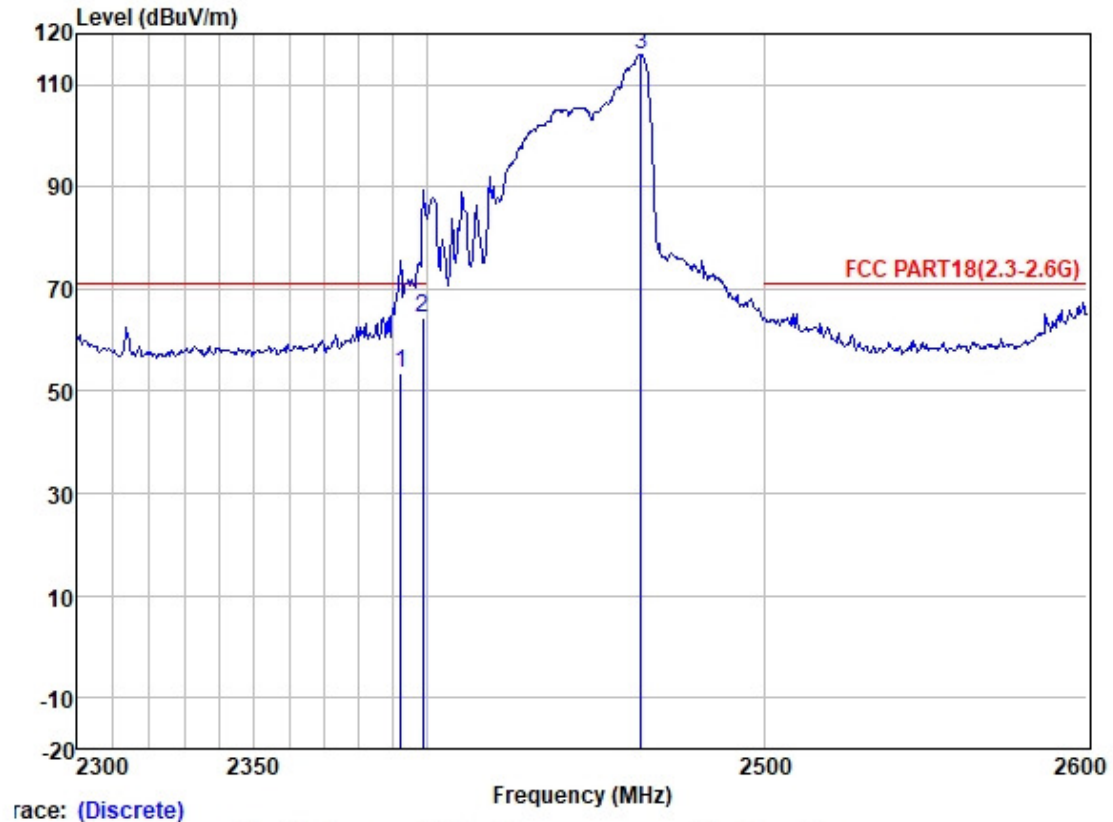


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1) The variation of frequency with time

Mode:a; Polarization:Horizontal



Trace: (Discrete)

	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	2392.029	23.69	26.44	3.49	0.00	53.62	71.15	-17.53	HORIZONTAL Average
2	2398.490	34.41	26.45	3.50	0.00	64.36	71.15	-6.79	HORIZONTAL Average
3	2462.855	85.91	26.55	3.50	0.00	115.96	-----	-----	HORIZONTAL Peak

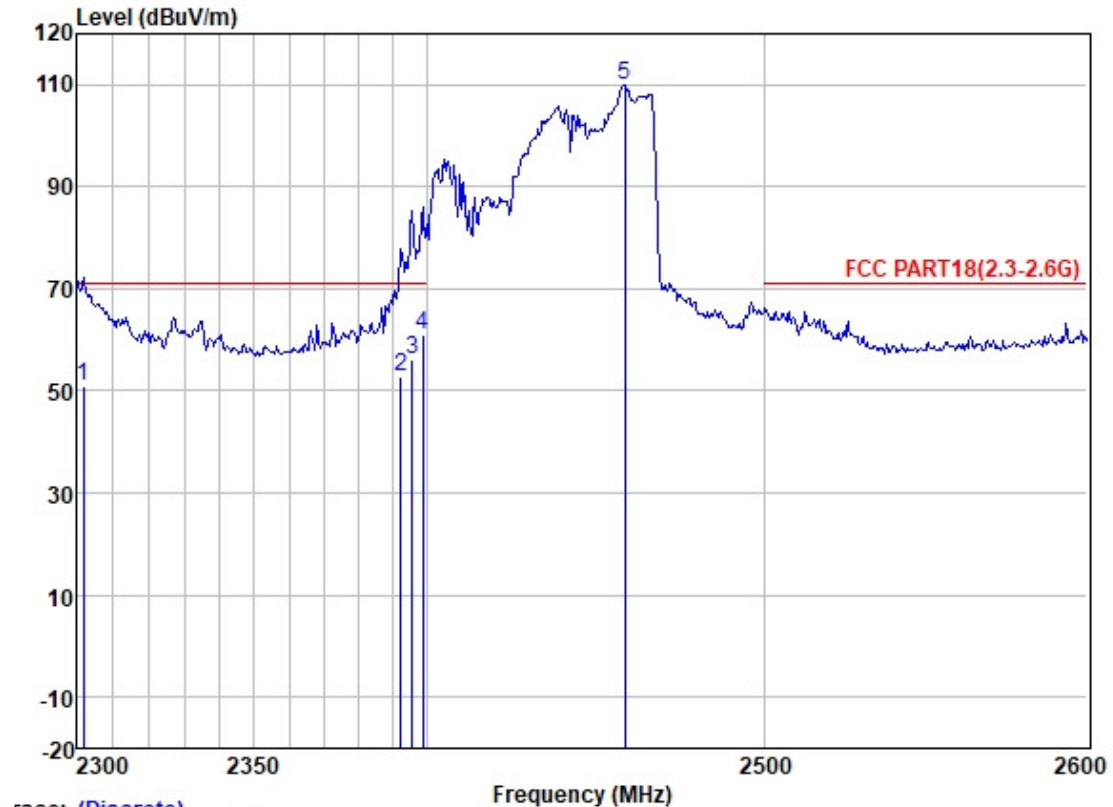


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2)The variation of frequency with line voltage

Mode:a; Polarization: Vertical



Trace: (Discrete)

	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	2301.693	21.58	26.21	3.30	0.00	51.09	71.15	-20.06	VERTICAL Average
2	2392.029	22.86	26.44	3.49	0.00	52.79	71.15	-18.36	VERTICAL Average
3	2395.551	26.35	26.44	3.49	0.00	56.28	71.15	-14.87	VERTICAL Average
4	2398.490	31.24	26.45	3.50	0.00	61.19	71.15	-9.96	VERTICAL Average
5	2458.028	79.96	26.54	3.45	0.00	109.95	-----	-----	VERTICAL Peak



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com



**6.4 Radiated Emissions (30MHz-1GHz)**

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Detector: Peak for pre-scan, Average for the final result  
( 100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)

Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	$25 \times \text{SQRT}(\text{power}/500)$

Power = 1043.0 W according to clause 6.1.2

Limit =  $20 \lg(25 \times \text{SQRT}(\text{power}/500)) + 20 \lg(300/3) = 31.15 + 40 = 71.15 \text{ dBuV/m}$   
@ 3m distance.**6.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 23 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Test the EUT in microwave mode with maximum power.

b: Test the EUT in microwave mode with middle power.

c: Test the EUT in microwave mode with lowest power.

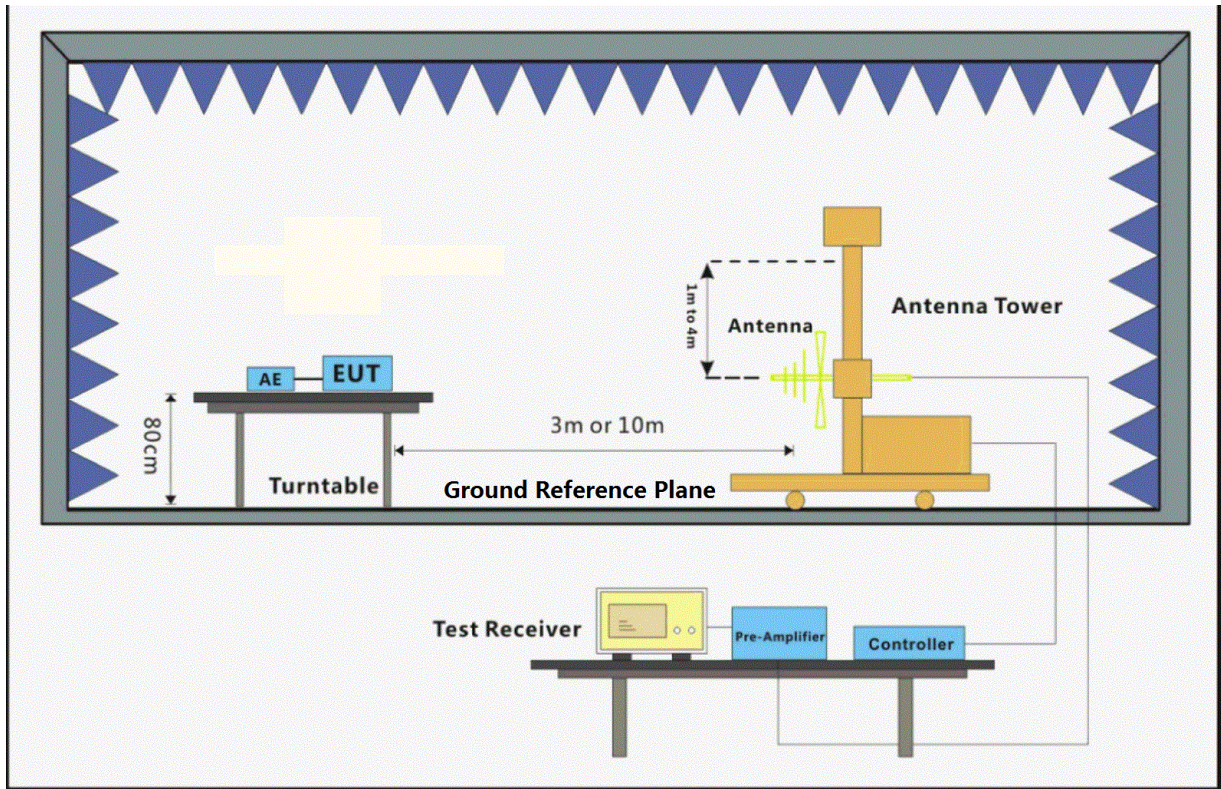
Worst mode a: Test the EUT in microwave mode with maximum power.



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#### 6.4.2 Test Setup Diagram



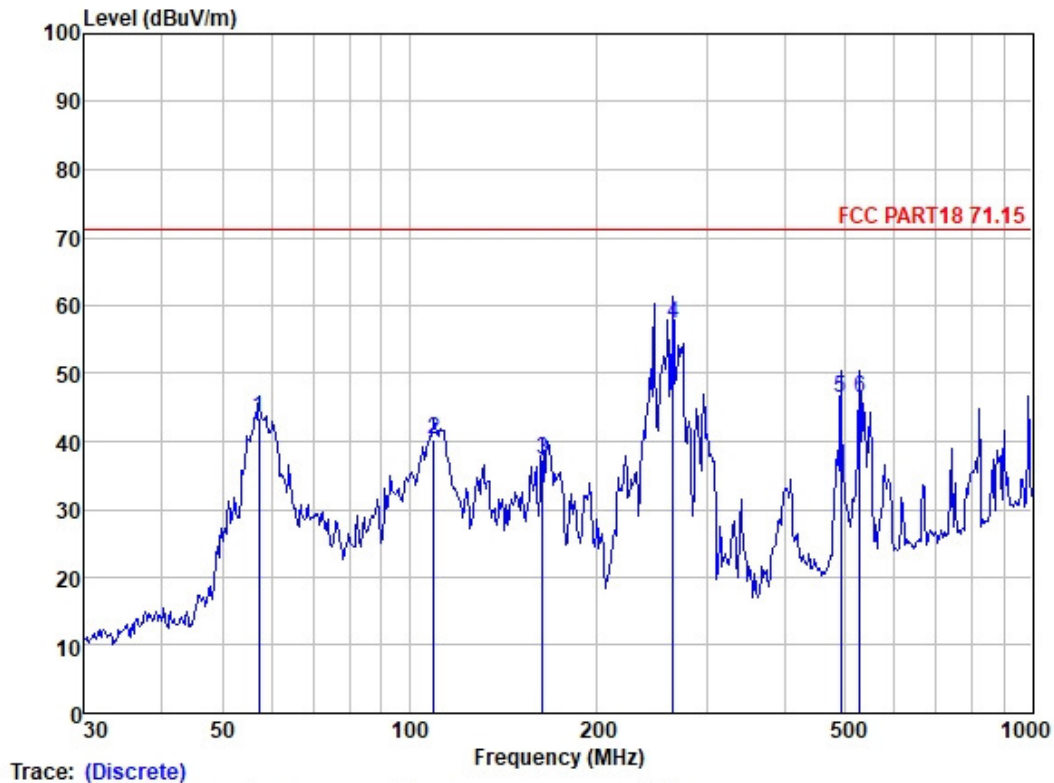
#### 6.4.3 Measurement Data

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

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



Mode:a; Polarization:Horizontal



Trace: (Discrete)

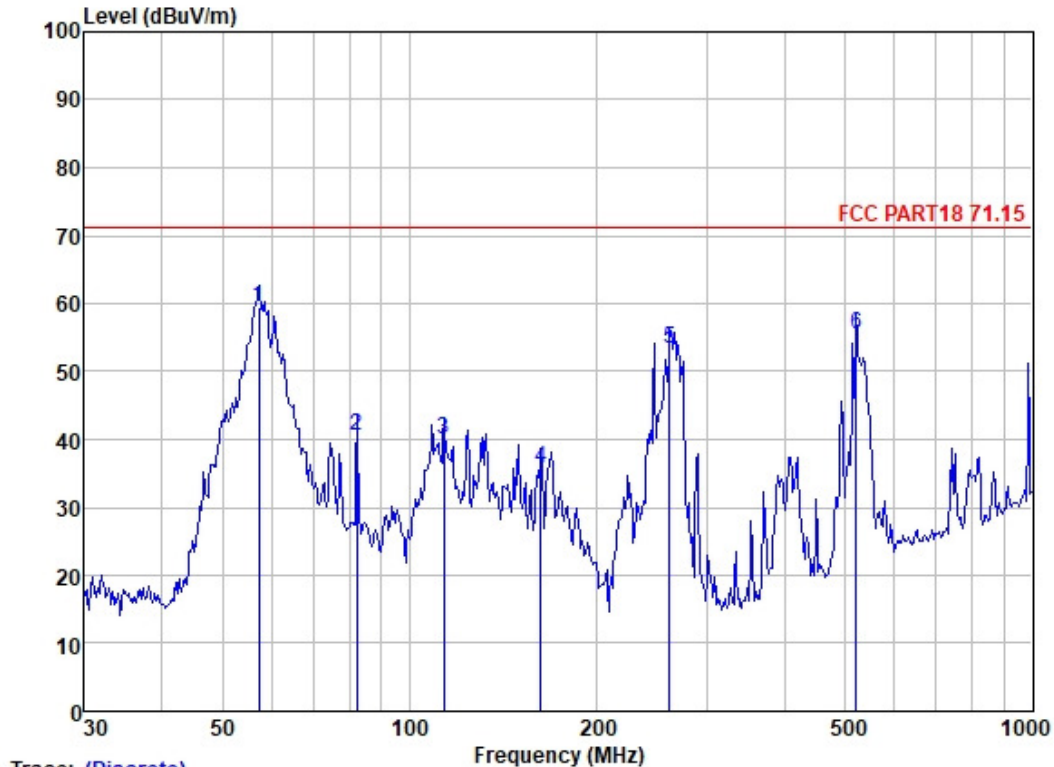
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	57.191	55.78	13.64	1.30	27.16	43.56	71.15	-27.59	HORIZONTAL Average
2	109.412	55.35	10.37	1.71	27.08	40.35	71.15	-30.80	HORIZONTAL Average
3	163.182	48.58	13.53	2.17	26.84	37.44	71.15	-33.71	HORIZONTAL Average
4	264.746	69.25	12.40	2.72	26.99	57.38	71.15	-13.77	HORIZONTAL Average
5	492.469	52.51	17.85	4.05	28.04	46.37	71.15	-24.78	HORIZONTAL Average
6	528.246	52.02	18.28	4.03	28.05	46.28	71.15	-24.87	HORIZONTAL Average



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Mode:a; Polarization:Vertical



Trace: (Discrete)

		Read	Antenna	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	57.191	71.78	13.64	1.30	27.16	59.56	71.15	-11.59	VERTICAL	Average
2	82.071	57.66	8.40	1.61	27.11	40.56	71.15	-30.59	VERTICAL	Average
3	113.316	54.86	10.57	1.74	27.07	40.10	71.15	-31.05	VERTICAL	Average
4	162.041	46.71	13.60	2.15	26.84	35.62	71.15	-35.53	VERTICAL	Average
5	261.058	65.37	12.25	2.71	26.98	53.35	71.15	-17.80	VERTICAL	Average
6	520.888	61.31	18.20	3.93	28.05	55.39	71.15	-15.76	VERTICAL	Average



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## 6.5 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Frequency Range: Above 1GHz

Measurement Distance: 3m

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

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 = 1043.0 W according to clause 6.1.2

Limit =  $20\lg(25 \cdot \sqrt{\text{power}/500}) + 20\lg(300/3) = 31.15 + 40 = 71.15 \text{ dBuV/m}$   
 @ 3m distance.

### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Test the EUT in microwave mode with maximum power.

b: Test the EUT in microwave mode with middle power.

c: Test the EUT in microwave mode with lowest power.

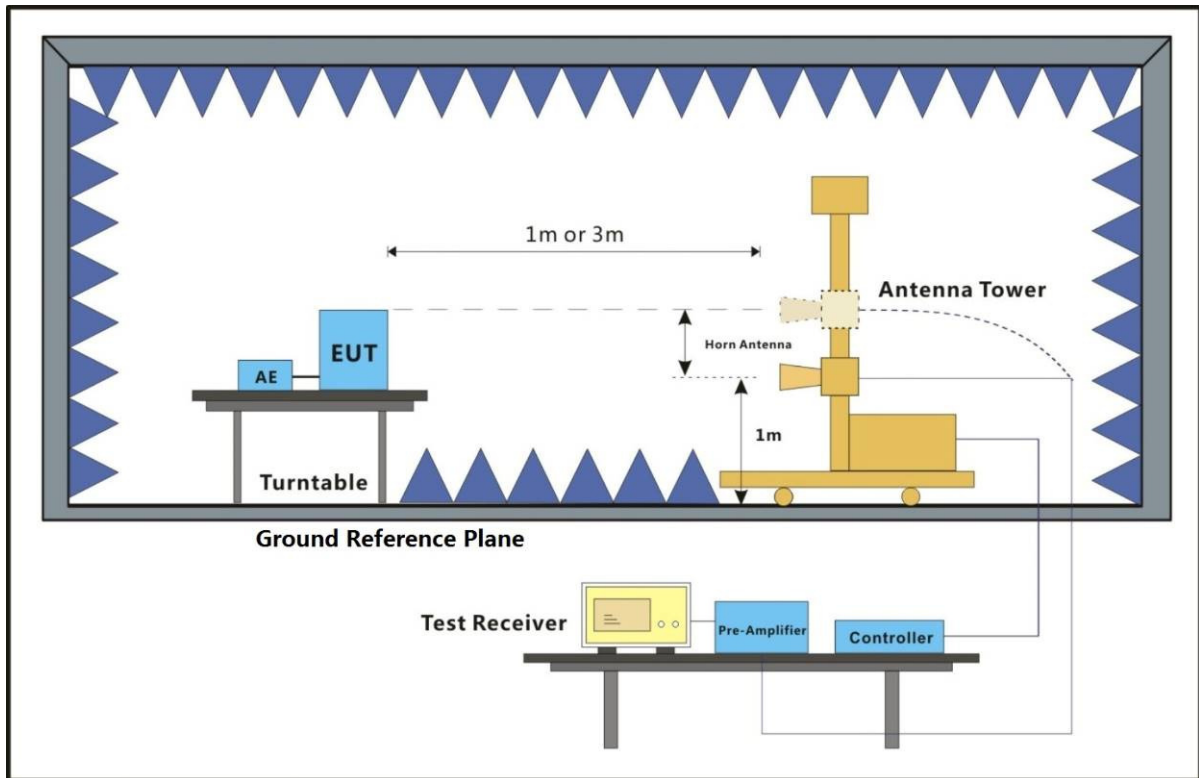
Worst mode a: Test the EUT in microwave mode with maximum power.



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## 6.5.2 Test Setup Diagram



## 6.5.3 Measurement Data

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.

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



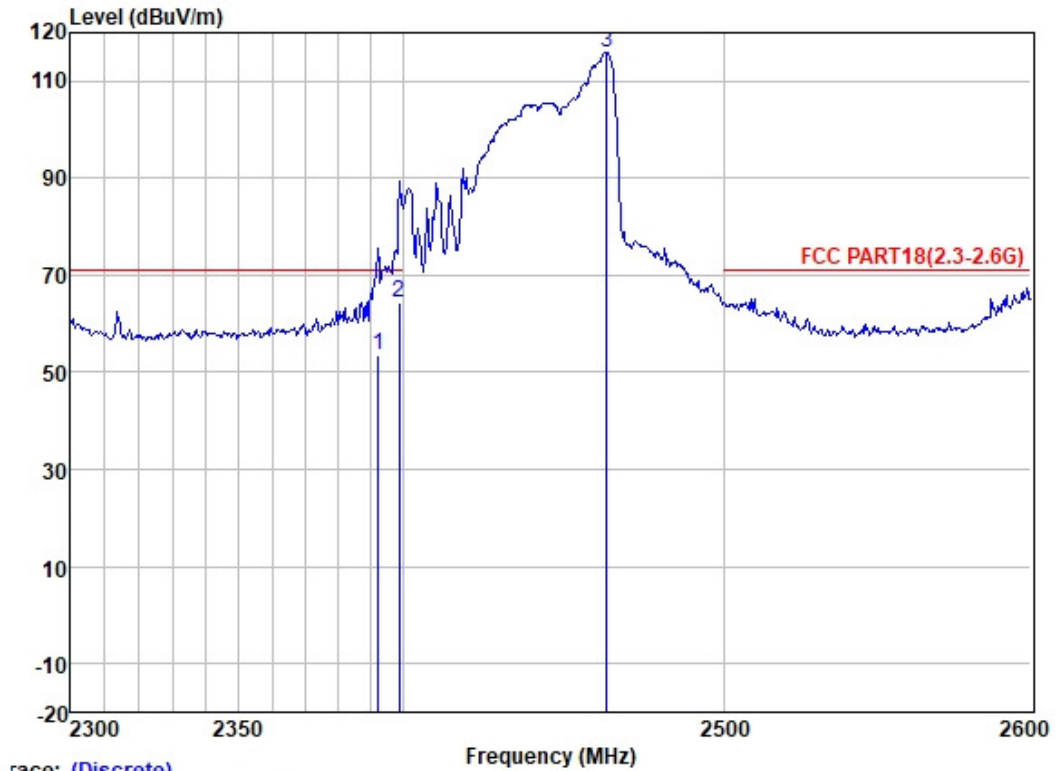
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Mode:a; Polarization:Horizontal



Trace: (Discrete)

	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 2392.029	23.69	26.44	3.49	0.00	53.62	71.15	-17.53	HORIZONTAL	Average
2 2398.490	34.41	26.45	3.50	0.00	64.36	71.15	-6.79	HORIZONTAL	Average
3 2462.855	85.91	26.55	3.50	0.00	115.96	-----	-----	HORIZONTAL	Peak

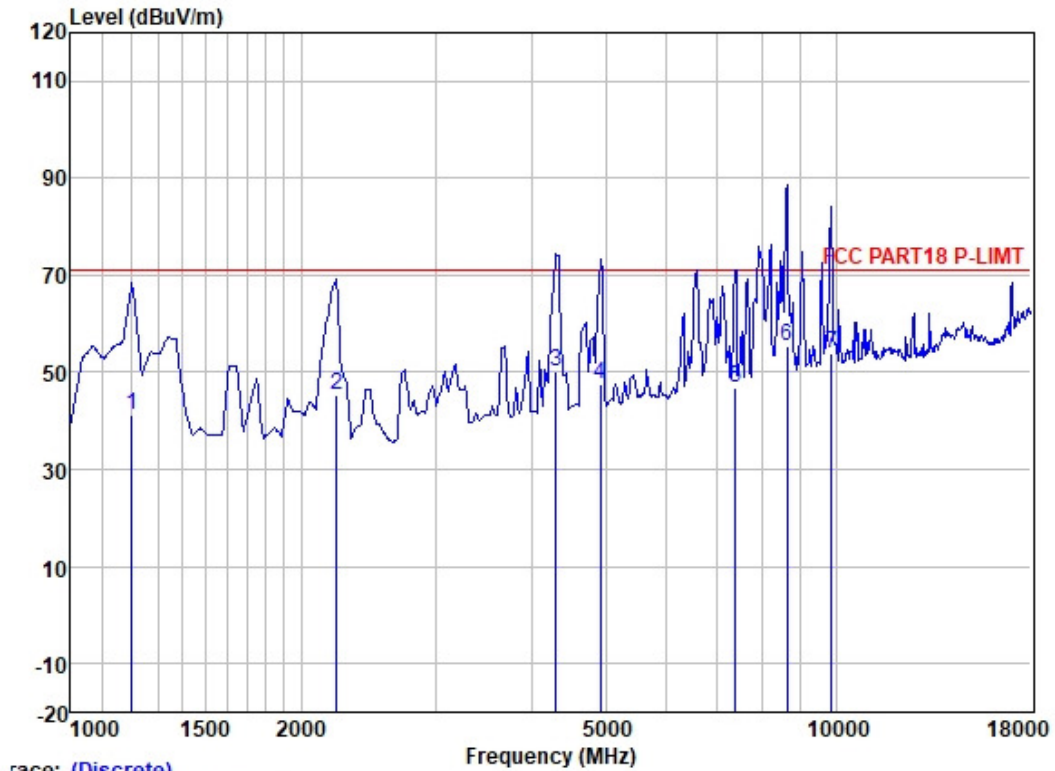


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Mode:a; Polarization:Horizontal



Trace: (Discrete)

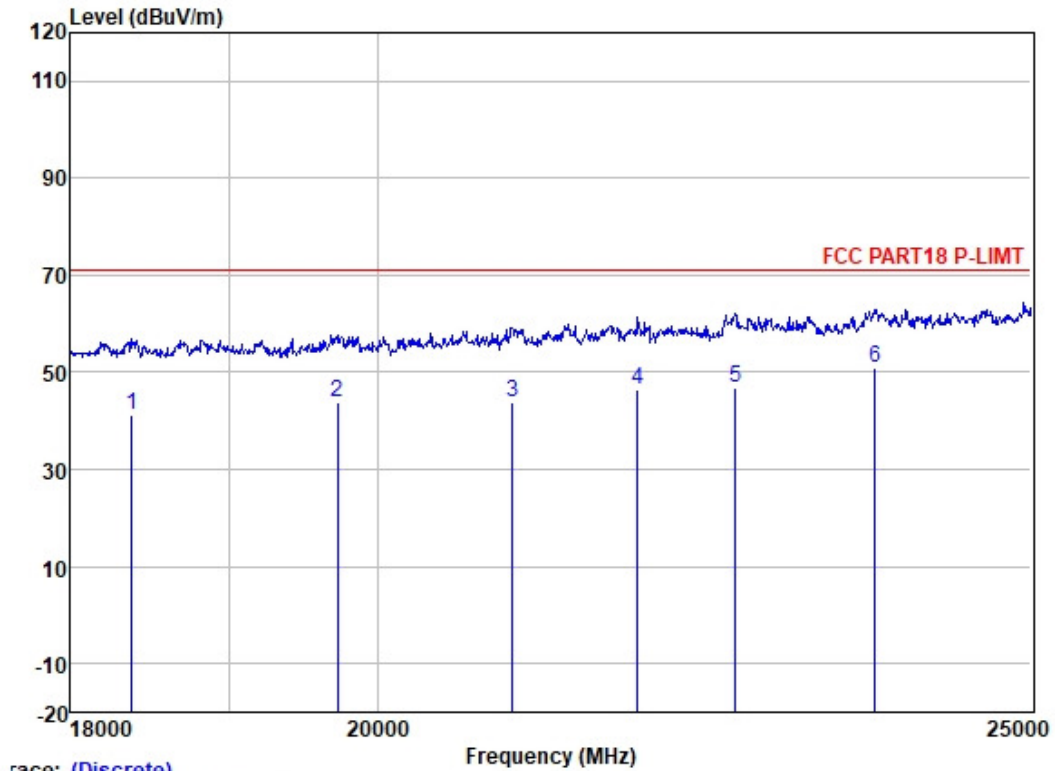
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	52.72	24.45	2.34	38.19	41.32	71.15	-29.83	HORIZONTAL Average
2	2226.950	53.69	25.86	3.23	37.46	45.32	71.15	-25.83	HORIZONTAL Average
3	4304.400	52.63	29.91	4.65	36.91	50.28	71.15	-20.87	HORIZONTAL Average
4	4924.917	47.83	31.01	5.60	36.95	47.49	71.15	-23.66	HORIZONTAL Average
5	7382.529	41.81	35.85	6.19	36.92	46.93	71.15	-24.22	HORIZONTAL Average
6	8638.399	49.37	36.20	6.92	36.95	55.54	71.15	-15.61	HORIZONTAL Average
7	9866.789	46.28	37.86	6.98	37.09	54.03	71.15	-17.12	HORIZONTAL Average



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Mode:a; Polarization:Horizontal



race: (Discrete)

	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 18382.440	22.14	37.93	16.62	35.60	41.09	71.15	-30.06	HORIZONTAL	Average
2 19721.230	24.21	38.00	17.22	35.60	43.83	71.15	-27.32	HORIZONTAL	Average
3 20936.280	23.61	37.90	17.97	35.45	44.03	71.15	-27.12	HORIZONTAL	Average
4 21849.740	24.86	38.17	18.55	35.31	46.27	71.15	-24.88	HORIZONTAL	Average
5 22594.280	24.31	39.14	19.01	35.51	46.95	71.15	-24.20	HORIZONTAL	Average
6 23696.550	27.07	39.60	20.12	36.03	50.76	71.15	-20.39	HORIZONTAL	Average



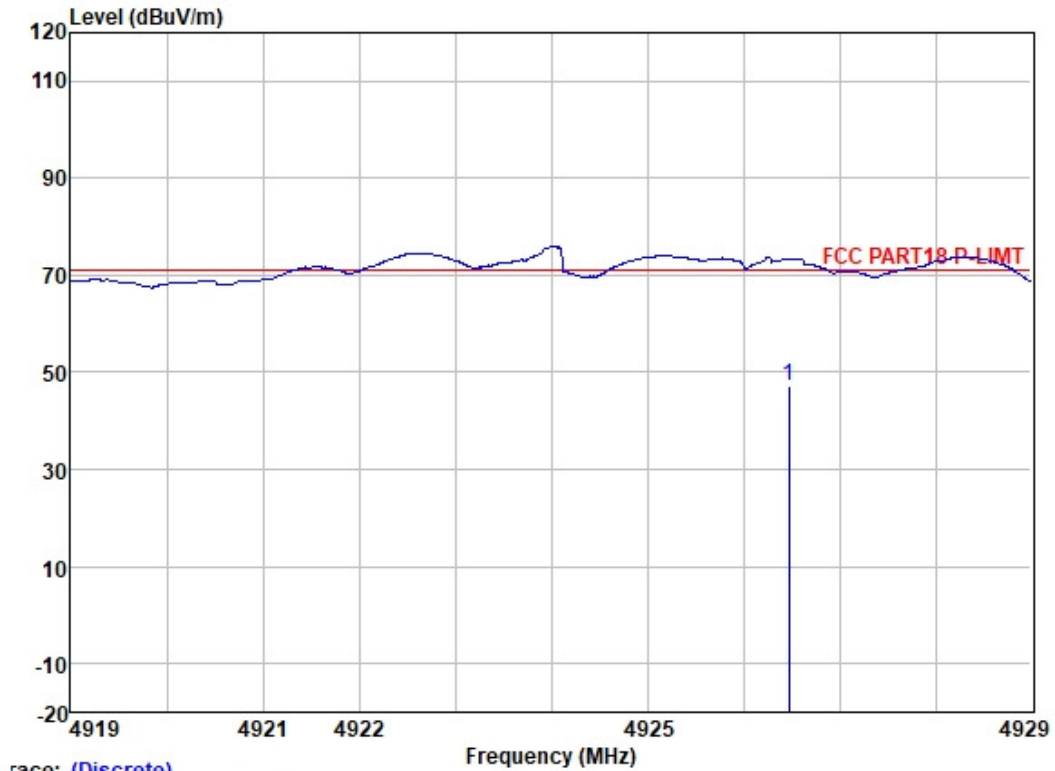
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Mode:a; Polarization:Horizontal



Trace: (Discrete)

	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 4926.474	47.71	31.01	5.60	36.95	47.37	71.15	-23.78	HORIZONTAL Average

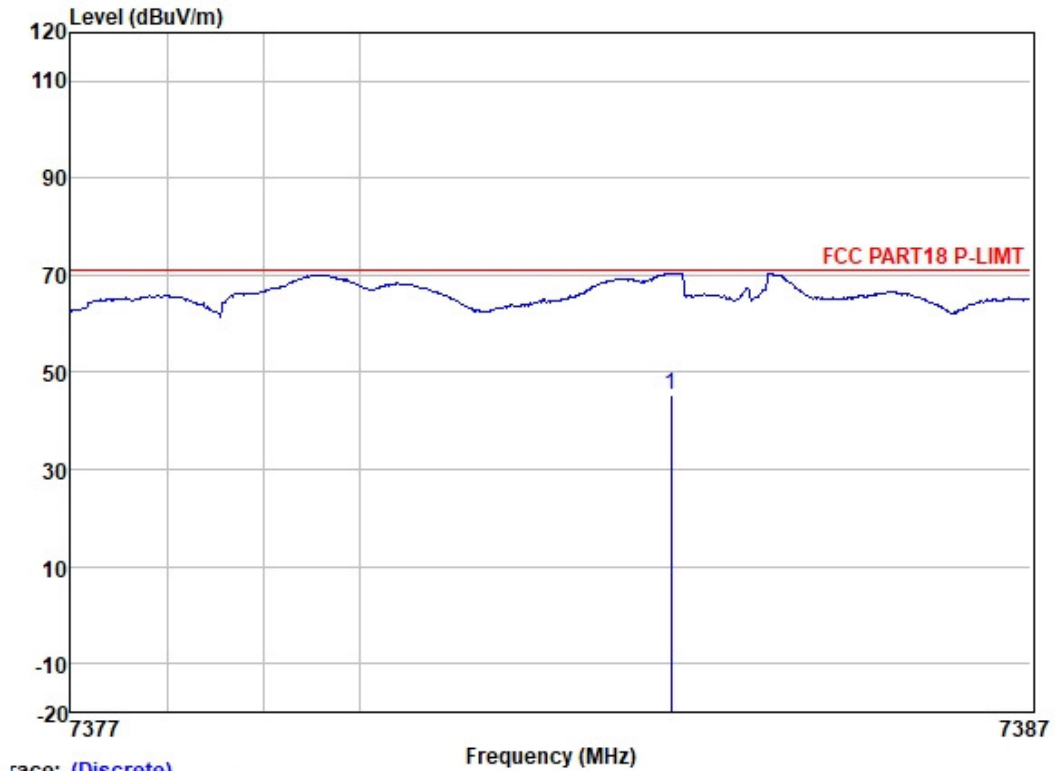


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Mode:a; Polarization:Horizontal



Trace: (Discrete)

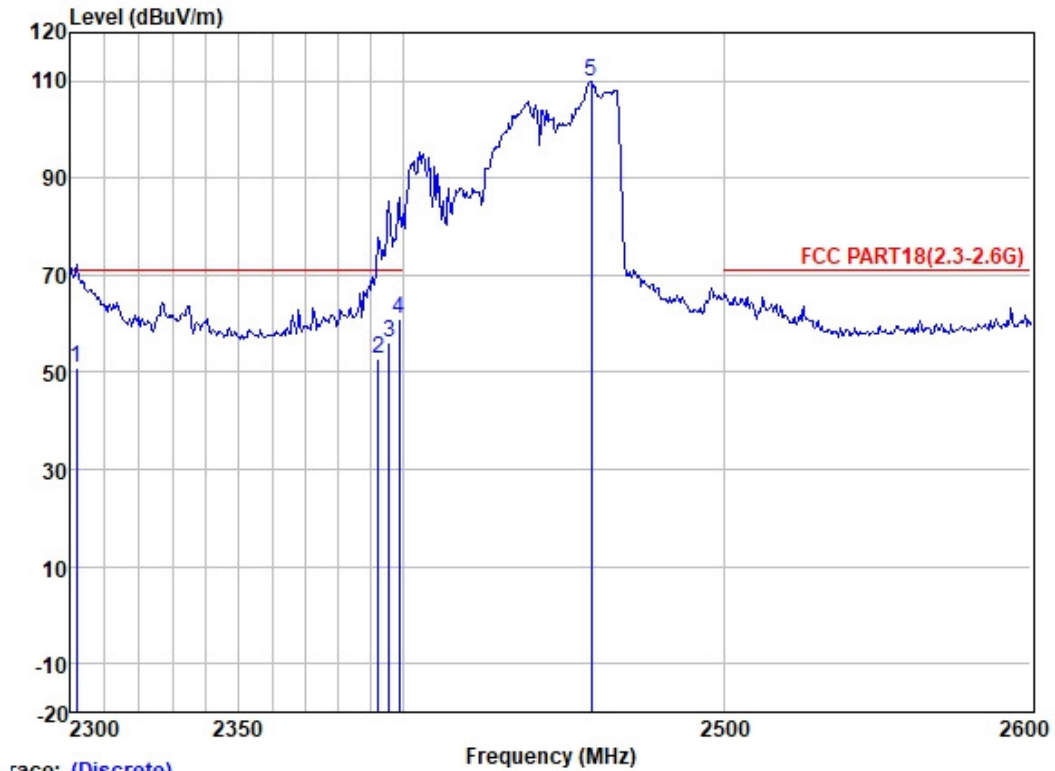
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7383.252	40.21	35.85	6.19	36.92	45.33	71.15	-25.82	HORIZONTAL Average



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Mode:a; Polarization:Vertical



race: (Discrete)

		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	2301.693	21.58	26.21	3.30	0.00	51.09	71.15	-20.06	VERTICAL	Average
2	2392.029	22.86	26.44	3.49	0.00	52.79	71.15	-18.36	VERTICAL	Average
3	2395.551	26.35	26.44	3.49	0.00	56.28	71.15	-14.87	VERTICAL	Average
4	2398.490	31.24	26.45	3.50	0.00	61.19	71.15	-9.96	VERTICAL	Average
5	2458.028	79.96	26.54	3.45	0.00	109.95	-----	-----	VERTICAL	Peak



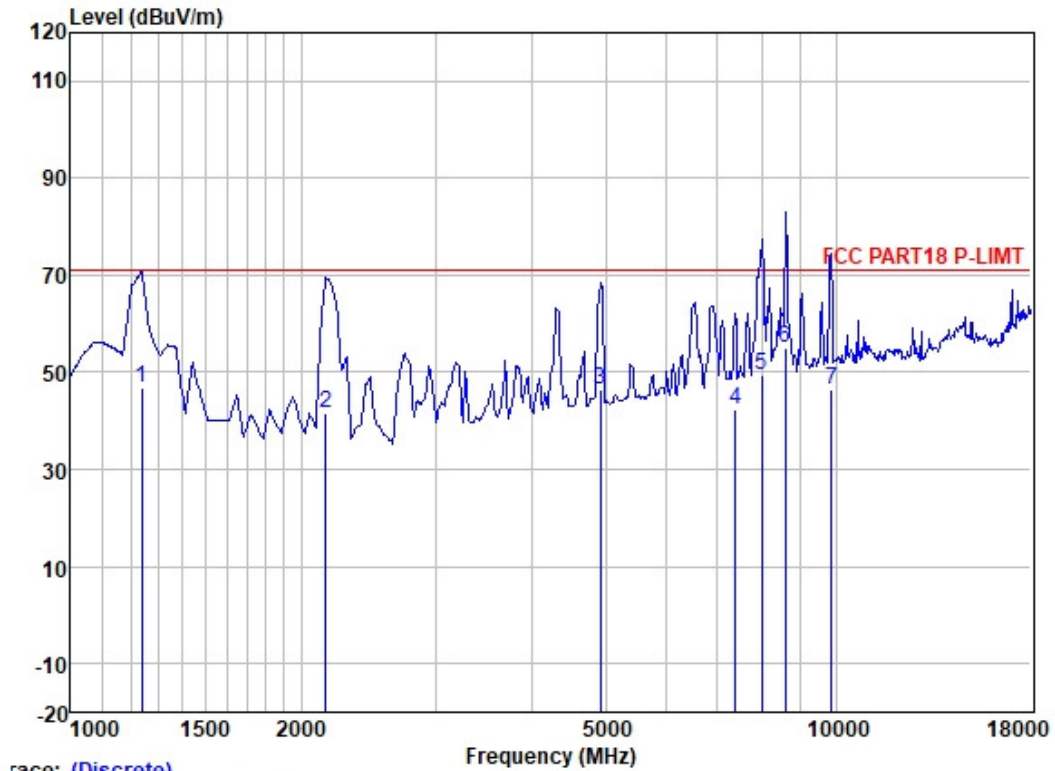
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Mode:a; Polarization:Vertical



Trace: (Discrete)

		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	1238.483	58.12	24.62	2.30	38.16	46.88	71.15	-24.27	VERTICAL	Average
2	2157.260	50.39	25.55	3.18	37.47	41.65	71.15	-29.50	VERTICAL	Average
3	4921.723	46.70	30.99	5.58	36.95	46.32	71.15	-24.83	VERTICAL	Average
4	7387.094	37.35	35.85	6.19	36.92	42.47	71.15	-28.68	VERTICAL	Average
5	7989.893	43.54	36.50	6.15	36.90	49.29	71.15	-21.86	VERTICAL	Average
6	8588.607	48.99	36.16	6.84	36.95	55.04	71.15	-16.11	VERTICAL	Average
7	9866.789	38.86	37.86	6.98	37.09	46.61	71.15	-24.54	VERTICAL	Average

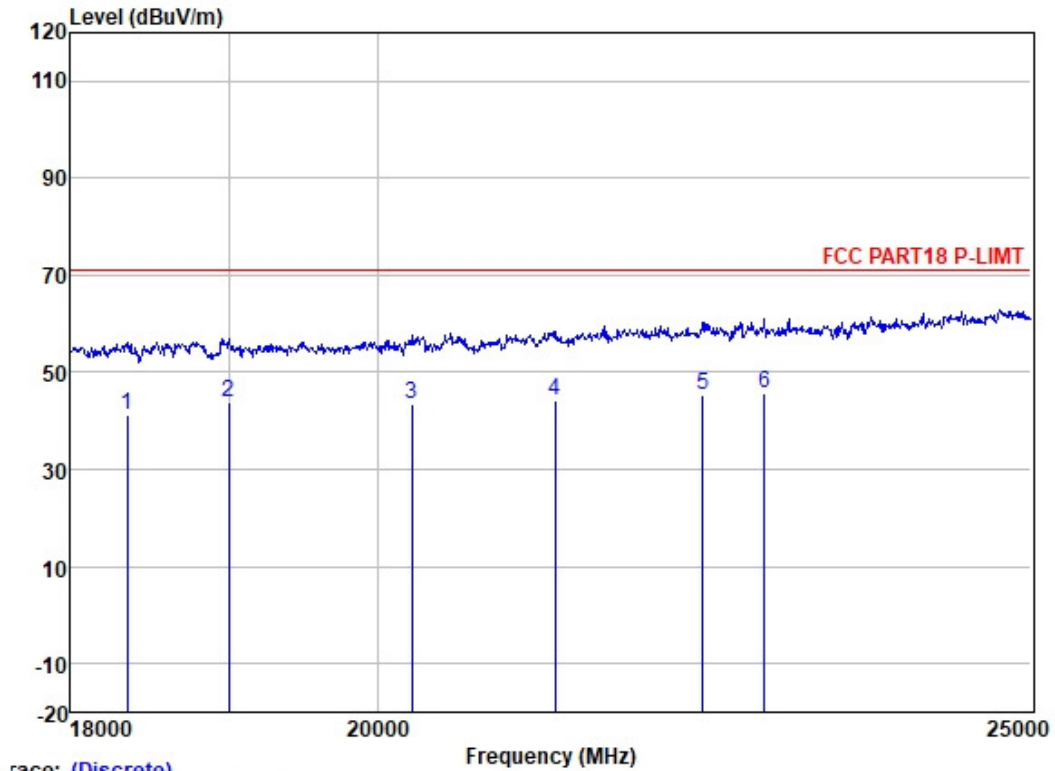


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Mode:a; Polarization:Vertical



race: (Discrete)

	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 18352.270	22.34	37.93	16.61	35.60	41.28	71.15	-29.87	VERTICAL	Average
2 19002.580	24.69	38.00	16.90	35.60	43.99	71.15	-27.16	VERTICAL	Average
3 20226.440	23.75	37.98	17.41	35.57	43.57	71.15	-27.58	VERTICAL	Average
4 21241.100	23.62	37.96	18.10	35.39	44.29	71.15	-26.86	VERTICAL	Average
5 22343.320	23.36	38.59	18.77	35.39	45.33	71.15	-25.82	VERTICAL	Average
6 22818.040	22.89	39.44	19.13	35.61	45.85	71.15	-25.30	VERTICAL	Average



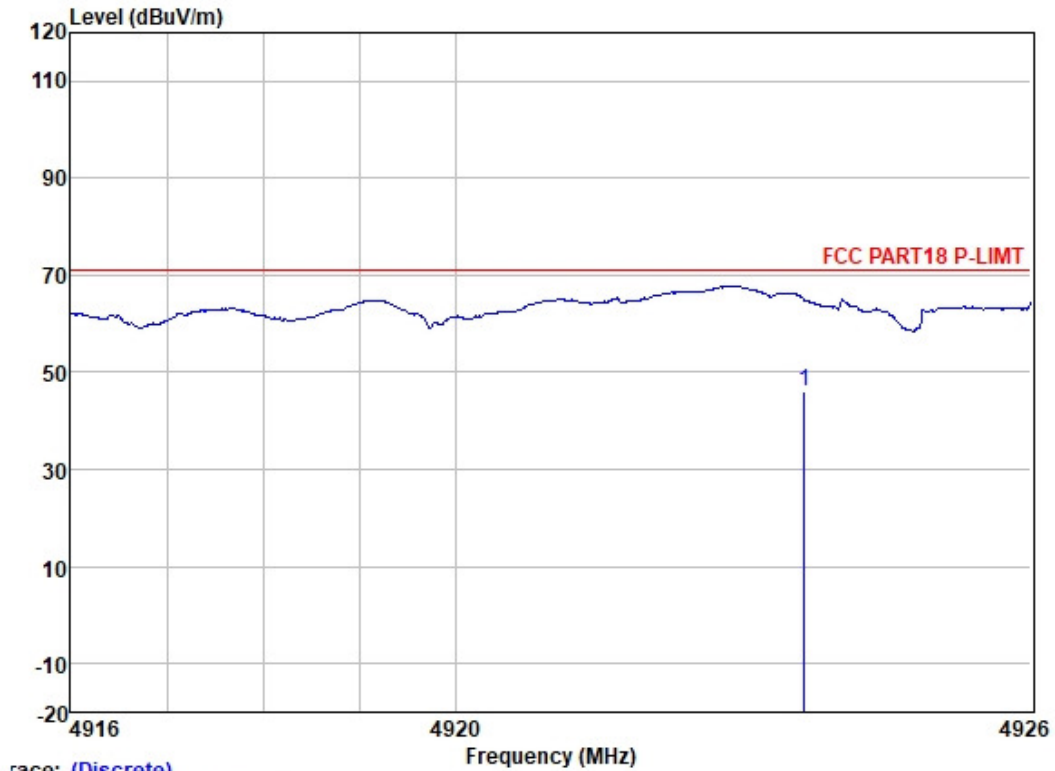
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Mode:a; Polarization:Vertical



Trace: (Discrete)

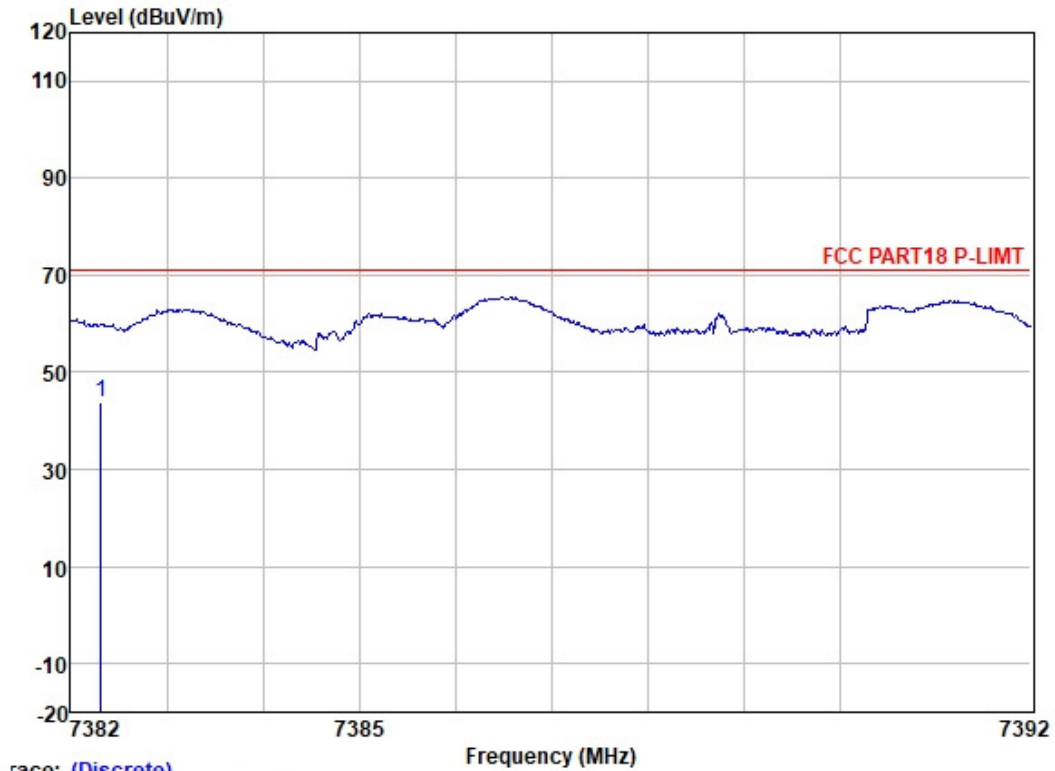
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4923.635	46.44	31.01	5.60	36.95	46.10	71.15	-25.05	VERTICAL	Average



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Mode:a; Polarization:Vertical



Trace: (Discrete)

	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 7382.320	38.73	35.85	6.19	36.92	43.85	71.15	-27.30	VERTICAL	Average



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

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Frequency Range: 9kHz to 30MHz

Measurement Distance: 10m

Detector: Peak for pre-scan, Average for the final result  
 (200Hz Resolution Bandwidth for 9kHz to 150kHz;  
 9kHz Resolution Bandwidth for 150kHz to 30MHz)

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 = 1043.0 W according to clause 6.1.2

Limit =  $20\lg(25 \cdot \sqrt{\text{power}/500}) + 20\lg(300/10) = 60.69\text{dBuV/m @ 10m distance.}$

### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test mode  
 a: Test the EUT in microwave mode with maximum power.  
 b: Test the EUT in microwave mode with middle power.  
 c: Test the EUT in microwave mode with lowest power.

Worst mode a: Test the EUT in microwave mode with maximum power.



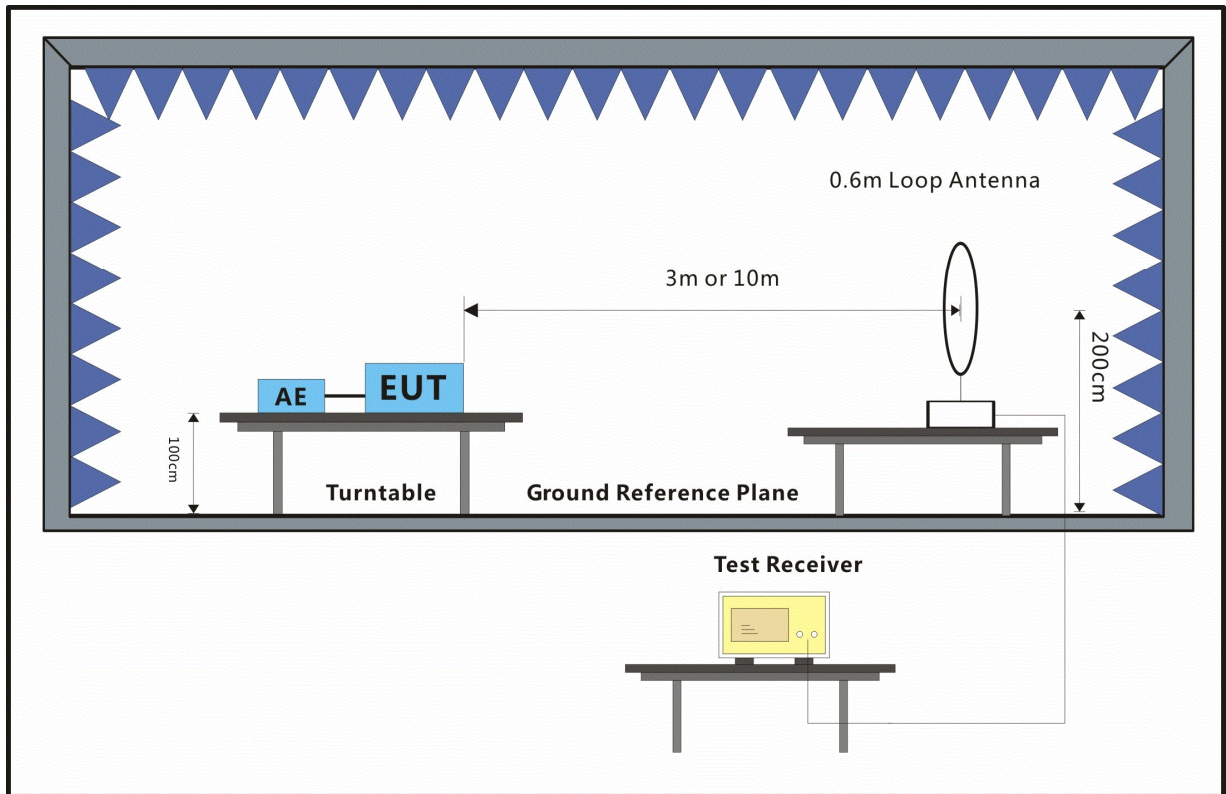
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## 6.6.2 Test Setup Diagram



## 6.6.3 Measurement Data

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

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



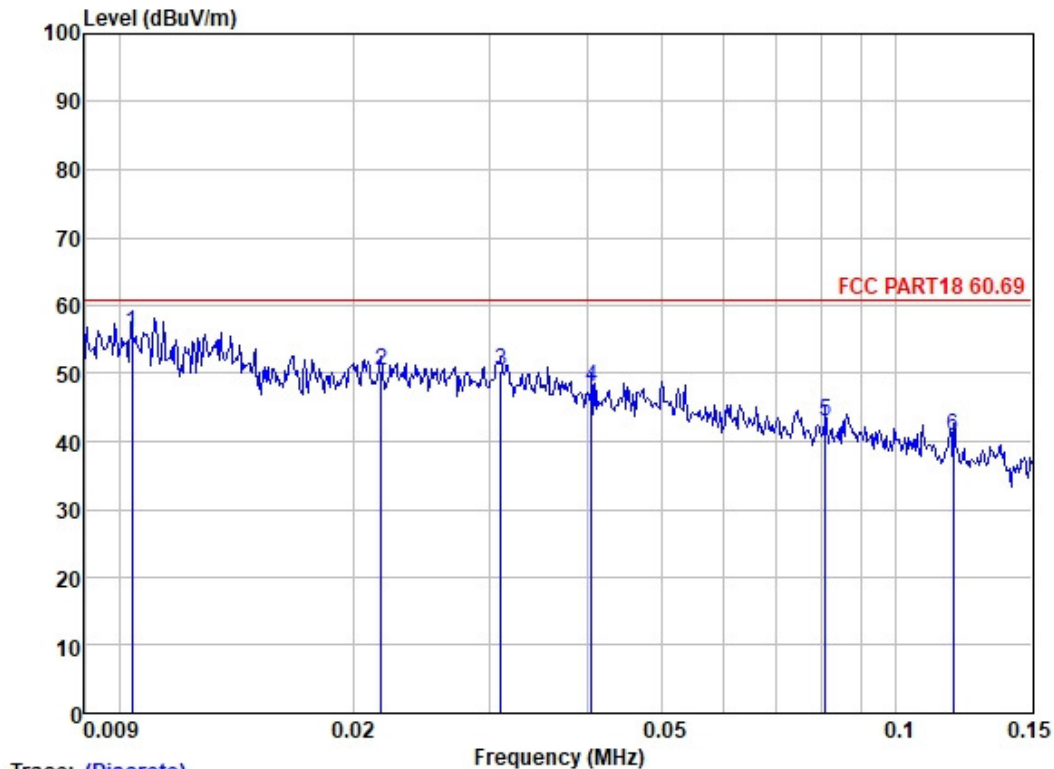
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Mode:a; Polarization:Horizontal



Trace: (Discrete)

	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	0.010	64.15	21.47	0.00	29.50	56.12	60.69	-4.57	HORIZONTAL Average
2	0.022	63.92	16.02	0.00	29.48	50.46	60.69	-10.23	HORIZONTAL Average
3	0.031	65.24	14.53	0.00	29.46	50.31	60.69	-10.38	HORIZONTAL Average
4	0.041	64.53	12.95	0.00	29.44	48.04	60.69	-12.65	HORIZONTAL Average
5	0.081	60.04	12.40	0.00	29.42	43.02	60.69	-17.67	HORIZONTAL Average
6	0.118	57.76	12.40	0.00	29.43	40.73	60.69	-19.96	HORIZONTAL Average



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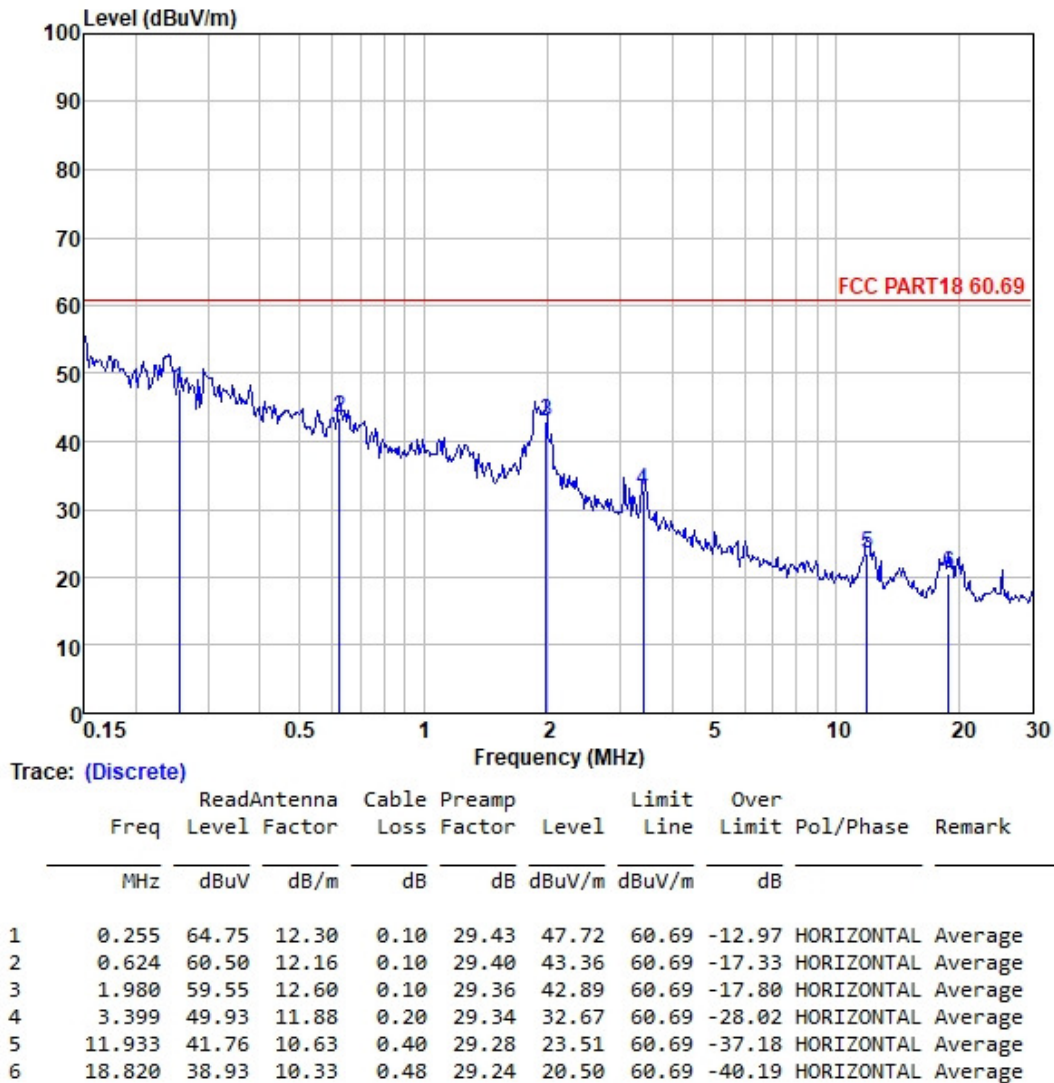
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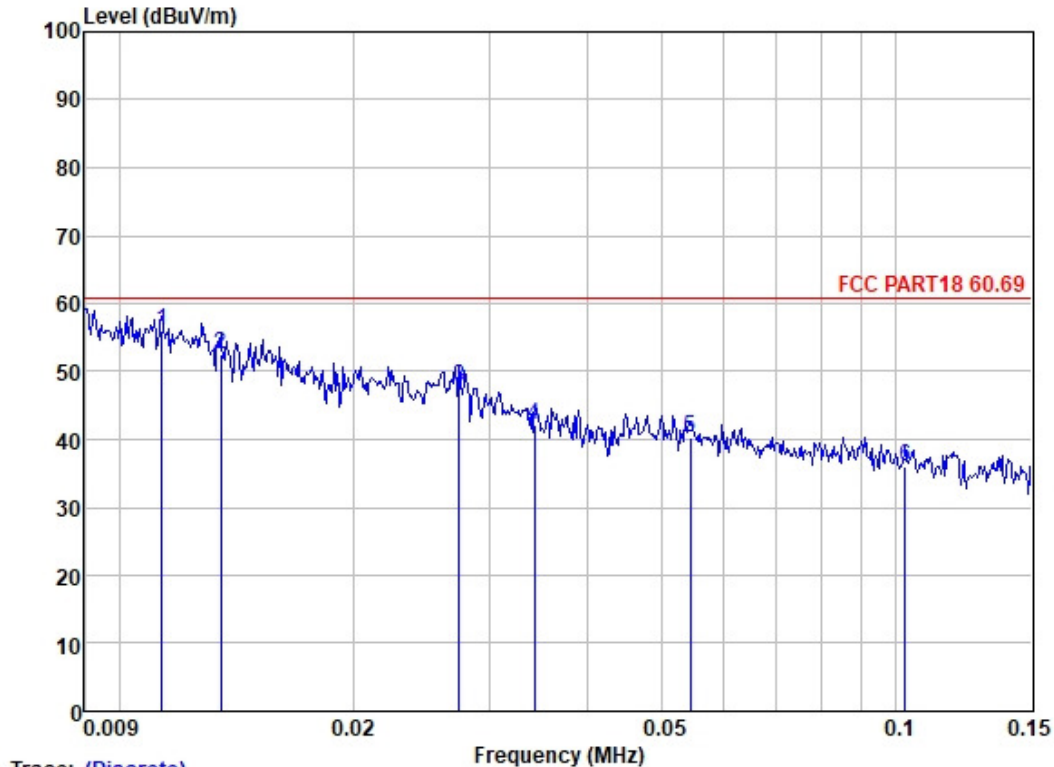
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Mode:a; Polarization:Vertical



Trace: (Discrete)

	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	0.011	63.12	21.06	0.00	28.09	56.09	60.69	-4.60	VERTICAL Average
2	0.013	60.97	19.66	0.00	28.14	52.49	60.69	-8.20	VERTICAL Average
3	0.027	60.92	15.32	0.00	28.56	47.68	60.69	-13.01	VERTICAL Average
4	0.034	57.41	13.63	0.00	29.00	42.04	60.69	-18.65	VERTICAL Average
5	0.054	57.15	12.48	0.00	29.30	40.33	60.69	-20.36	VERTICAL Average
6	0.103	53.04	12.40	0.00	29.46	35.98	60.69	-24.71	VERTICAL Average



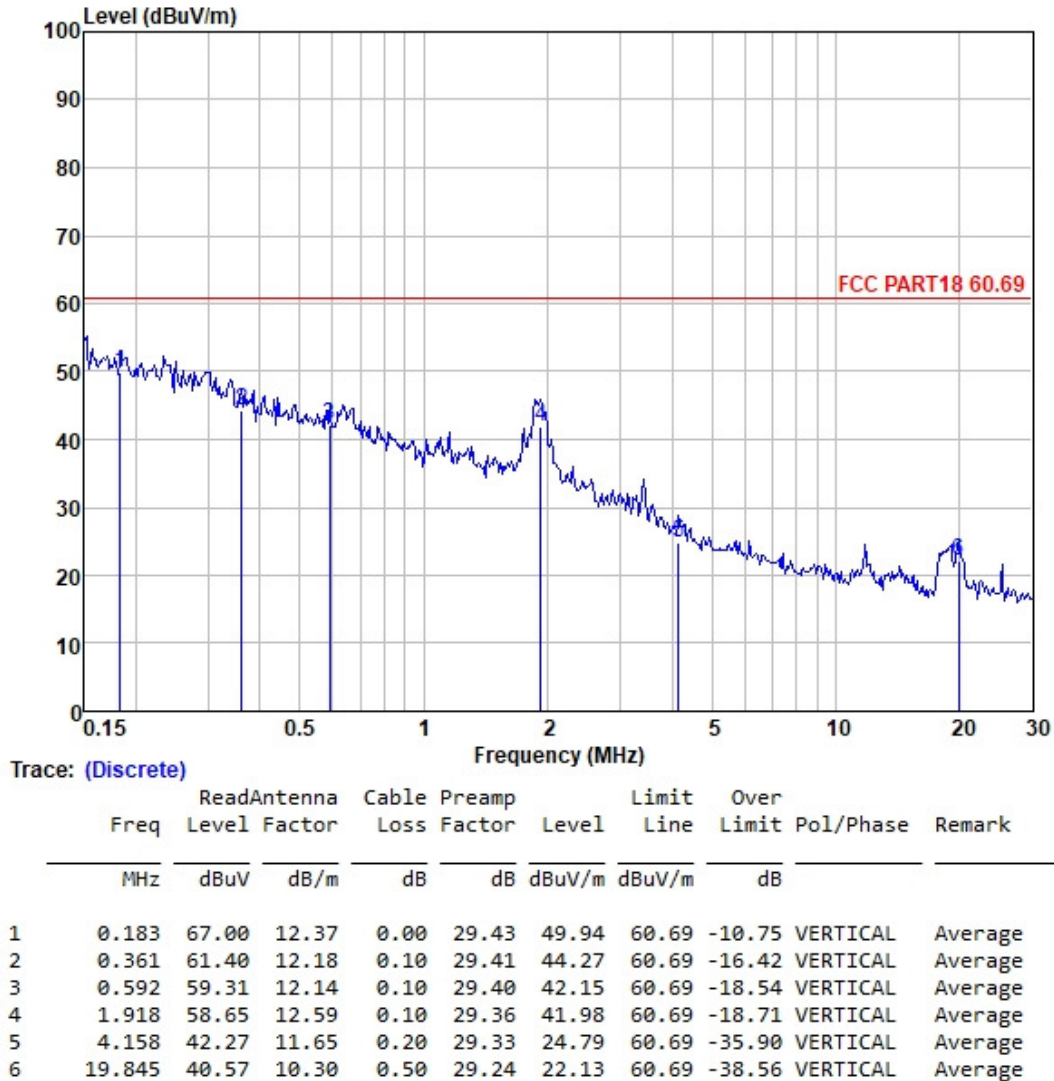
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