TEST REPORT

Application No.:	GZEM2005012566HS
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:	1, Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd. 2, Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co., Ltd.
Address of Factory:	1, 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China. 2, No.25, South Ronggui Avenue, Shunde District, Foshan City, 528305, Guangdong, China
Equipment Under Test (EUT):	
FCC ID: UHW9036	
EUT Name:	Microwave Oven
Model No.:	P90D23AP-D2, P90D23(X)-(Y) Series P: with microwave function only 90: denote the output power is 900W D23: denote different cavity in 23 liters. Variable (X) may be L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, 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. ¤
¤	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:	2020-05-22
Date of Test:	2020-05-27 to 2020-06-01
Date of Issue:	2020-09-01
Test Result:	**Pass***

* 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		2020-09-01		Original

Authorized for issue by:				
Tested By		Damon_Guan /Project Engineer		2020-05-27 to 2020-06-01 **Date**
Checked By		Terry_Lai /Reviewer		2020-09-01 **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
Output Power Measurement	47 CFR Part 18	FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	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/cm²	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

¤ Declaration of EUT Family Grouping:

Model No.: P90D23AP-D2, P90D23(X)-(Y) Series

P: with microwave function only

90: denote the output power is 900W

D23: denote different cavity in 23 liters.

Variable (X) may be

L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, 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.

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 P90D23AP-D2 was tested in this report.

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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 120V 60Hz
Test Voltage: AC 120V 60Hz
Cable: About 1.0m x 3 wires unscreened 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, just the worst case (700mL) was recorded in this report.
700mL 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 (9kHz-30MHz)
		±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-6GHz)
4	Radiated Immunity	±2.18dB(80MHz-3GHz)
5	Conducted Immunity	±3.5dB(150kHz-230MHz)
6	Electrostatic Discharge	±6 %
7	EFT (Electrical Fast Transients)	±4 %
8	Surge Immunity	±6%
9	Voltage Dips and Interruptions	±4 %
10	CISPR 20 Immunity	±1.5dB
11	Temperature	±0.4℃
12	Humidity	±1.3%
13	DC power	±0.5 %

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4.4 Test Location

All tests were performed at:

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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	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	Rohde & Schwarz	ENV216	EMC0118	2020-01-10	2021-01-09
LISN	Rohde & Schwarz	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-EMC	N/A	EMC0106	2019-05-10	2021-05-09
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2020-04-19	2022-04-18
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	2020-05-29	2021-05-28

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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	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-01	2023-05-31
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
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	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-01	2023-05-31
Horn Antenna	SCHWARZBECKMESS-ELEKTRONIK	BBHA 9120D	EMC2016	2019-09-25	2022-09-24
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	EMCO	6502	EMC0523	2018-03-05	2021-03-04
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
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	SCHWARZBECKMESS-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	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKMESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2020-06-01	2023-05-31
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2020-05-26	2021-05-25
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
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

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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

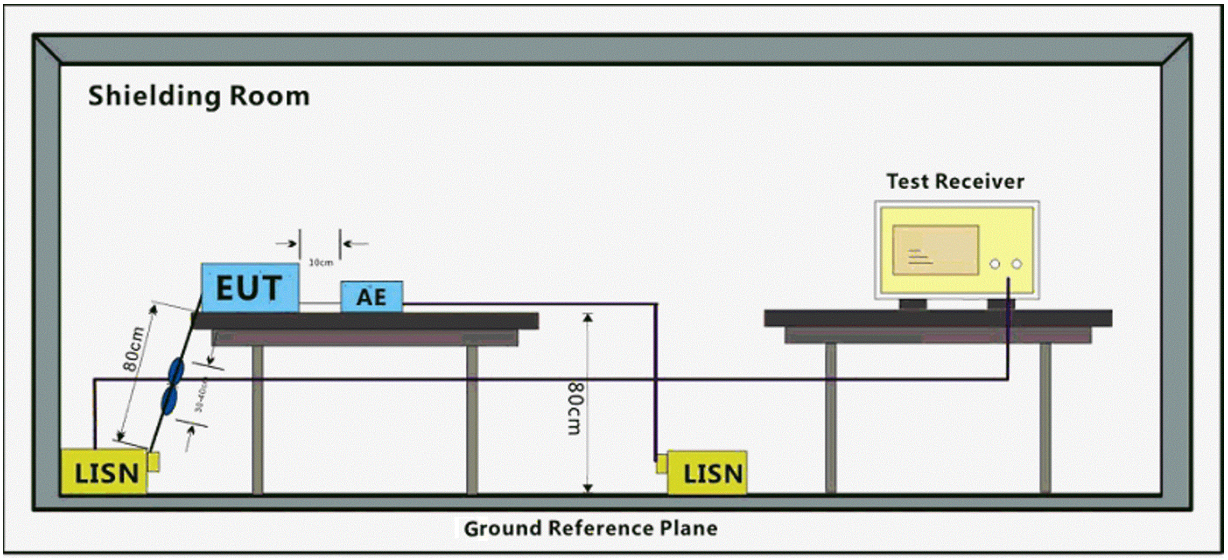
Operating Environment:

Temperature: 23.5 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:
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.

The worst case for final test:
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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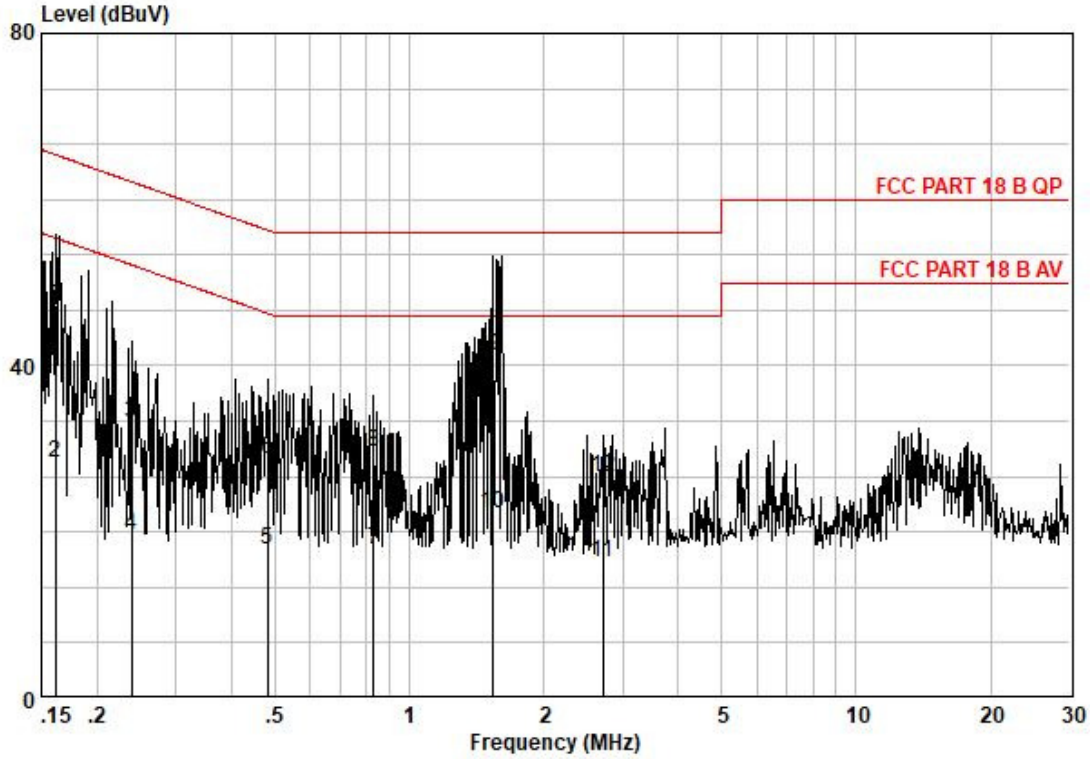
Mode:a; Line:Live Line



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
0.16	37.61	0.10	9.66	47.37	65.38	-18.01	QP
0.16	18.58	0.10	9.66	28.34	55.38	-27.04	AVERAGE
0.24	23.36	0.10	9.67	33.13	62.13	-29.00	QP
0.24	9.80	0.10	9.67	19.57	52.13	-32.56	AVERAGE
0.48	8.17	0.10	9.67	17.94	46.32	-28.38	AVERAGE
0.48	18.92	0.10	9.67	28.69	56.32	-27.63	QP
0.83	8.16	0.10	9.68	17.94	46.00	-28.06	AVERAGE
0.83	19.85	0.10	9.68	29.63	56.00	-26.37	QP
1.54	31.39	0.10	9.68	41.17	56.00	-14.83	QP
1.54	12.50	0.10	9.68	22.28	46.00	-23.72	AVERAGE
2.71	6.45	0.17	9.69	16.31	46.00	-29.69	AVERAGE
2.71	16.64	0.17	9.69	26.50	56.00	-29.50	QP

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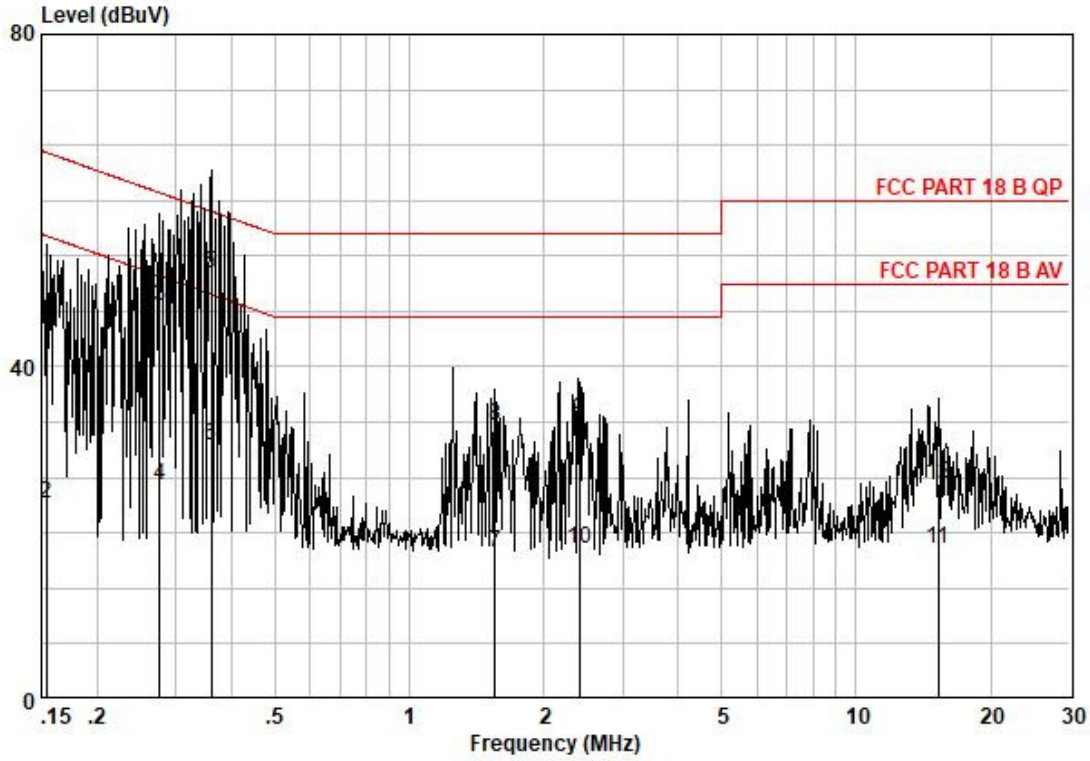
Mode:a; Line:Neutral Line



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
0.15	35.89	0.10	9.58	45.57	65.78	-20.21	QP
0.15	13.95	0.10	9.58	23.63	55.78	-32.15	AVERAGE
0.28	37.66	0.10	9.59	47.35	60.94	-13.59	QP
0.28	15.95	0.10	9.59	25.64	50.94	-25.30	AVERAGE
0.36	41.49	0.10	9.59	51.18	58.74	-7.56	QP
0.36	20.87	0.10	9.59	30.56	48.74	-18.18	AVERAGE
1.55	7.86	0.10	9.61	17.57	46.00	-28.43	AVERAGE
1.55	23.10	0.10	9.61	32.81	56.00	-23.19	QP
2.40	23.73	0.14	9.62	33.49	56.00	-22.51	QP
2.40	8.27	0.14	9.62	18.03	46.00	-27.97	AVERAGE
15.31	7.78	0.40	9.83	18.01	50.00	-31.99	AVERAGE
15.31	15.66	0.40	9.83	25.89	60.00	-34.11	QP

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6.2 RF Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

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 heating mode, setting at maximum power level.

6.2.2 Measurement Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (℃)	Initial temperature (℃)	Final temperature (℃)	Heating time(s)	Power output (watts)
1001	410	20.3	10.0	20.2	50	854.6

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.

6.2.3 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)
120.0	11.95	0.926	1328	1350

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6.3 Radiation Hazard Test

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Test distance: Five centimeters from the oven surface

6.3.1 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 heating mode, setting at maximum power level.

6.3.2 Measurement Data

Maximum measure level (mW/cm^2)	Limit (mW/cm^2)	Pass/Fail
0.38	1.00	Pass

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6.4 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 =854.6 W according to clause 6.2.2

Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=30.29+40=70.29dBuV/m @ 3m distance.**

ISM band: ISM equipment may be operated on any frequency above 9 kHz.

And the frequency band 2400-2500MHz is allocated for use by ISM equipment.

(§18.301)

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

6.4.1 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 heating mode, setting at maximum power level.

b: Test the EUT in microwave heating mode, setting at middle power level.

c: Test the EUT in microwave heating mode, setting at lowest power level.

Worst mode a: Test the EUT in microwave heating mode, setting at maximum power level.

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6.4.2 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	2469

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	2470

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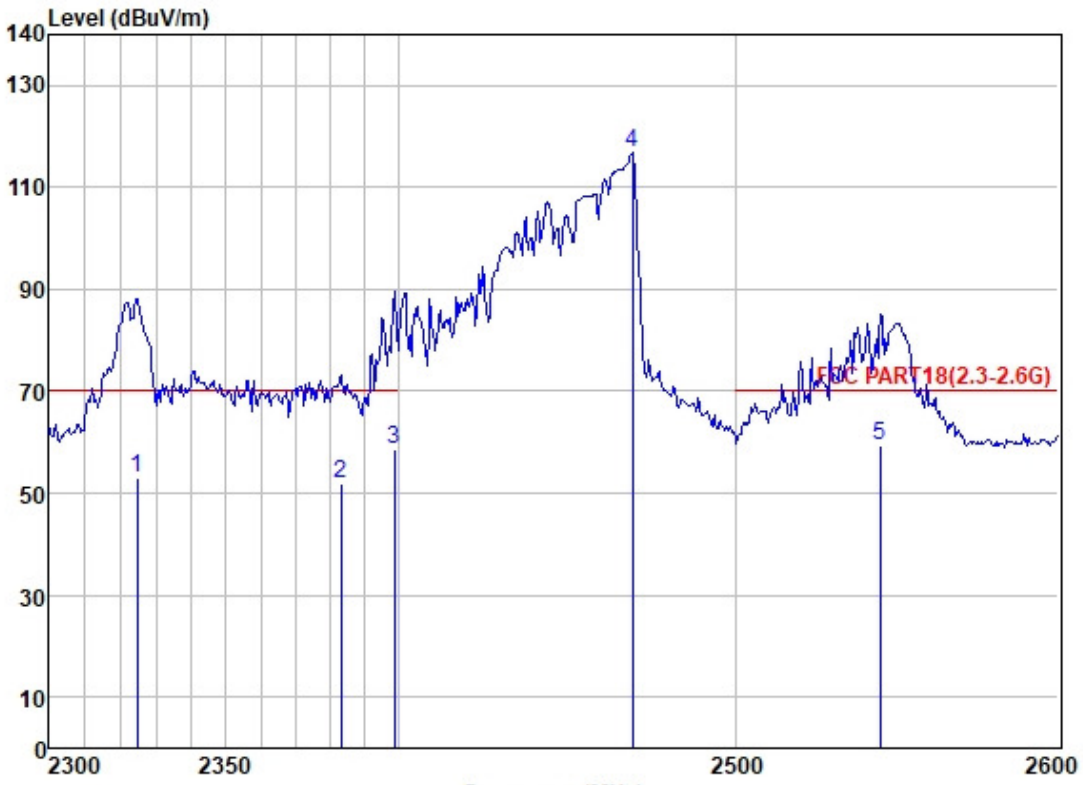
1)The variation of frequency with time



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2324.664	22.62	27.19	3.34	0.00	53.15	70.29	-17.14	VERTICAL	Average
2	2382.955	21.30	27.31	3.46	0.00	52.07	70.29	-18.22	VERTICAL	Average
3	2398.490	27.62	27.35	3.50	0.00	58.47	70.29	-11.82	VERTICAL	Average
4	2468.901	85.70	27.46	3.55	0.00	116.71	------	------	VERTICAL	Peak
5	2544.186	28.29	27.55	3.44	0.00	59.28	70.29	-11.01	VERTICAL	Average

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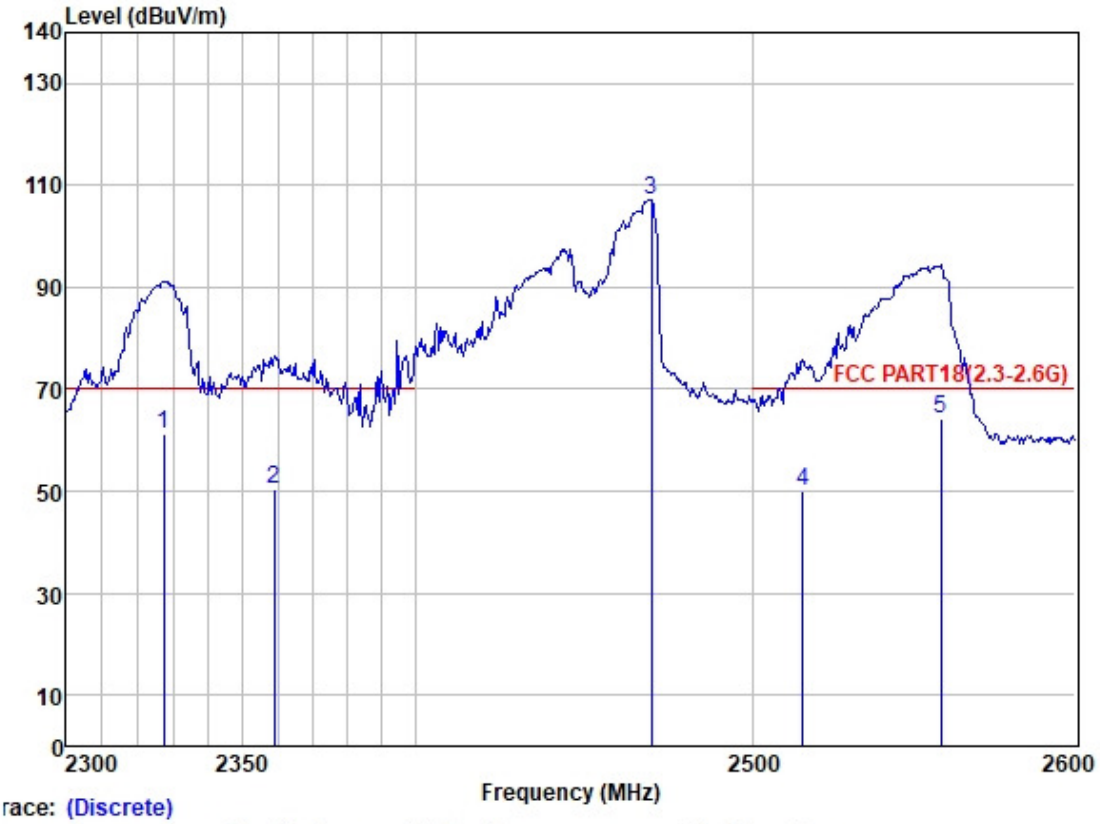
2)The variation of frequency with line voltage



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2327.516	30.70	27.19	3.34	0.00	61.23	70.29	-9.06	HORIZONTAL	Average
2	2358.829	19.71	27.27	3.42	0.00	50.40	70.29	-19.89	HORIZONTAL	Average
3	2469.507	76.21	27.46	3.55	0.00	107.22	------	------	HORIZONTAL	Peak
4	2515.342	18.98	27.52	3.41	0.00	49.91	70.29	-20.38	HORIZONTAL	Average
5	2557.948	33.37	27.57	3.46	0.00	64.40	70.29	-5.89	HORIZONTAL	Average

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6.5 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*SQRT(power/500)

Power =854.6W according to clause 6.2.2

Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=30.29+40=70.29dBuV/m @ 3m distance.**

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:
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.

The worst case for final test: a: Test the EUT in microwave mode with maximum power.

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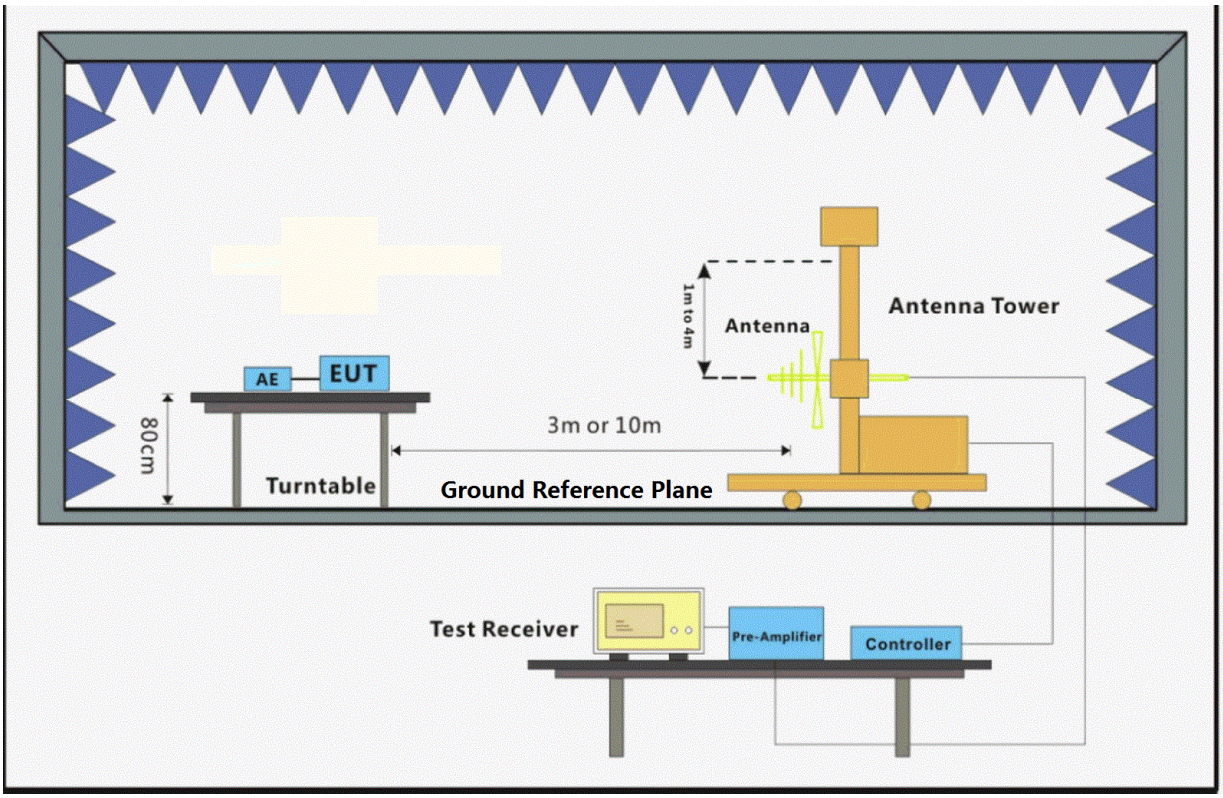
6.5.2 Test Setup Diagram



6.5.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. 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

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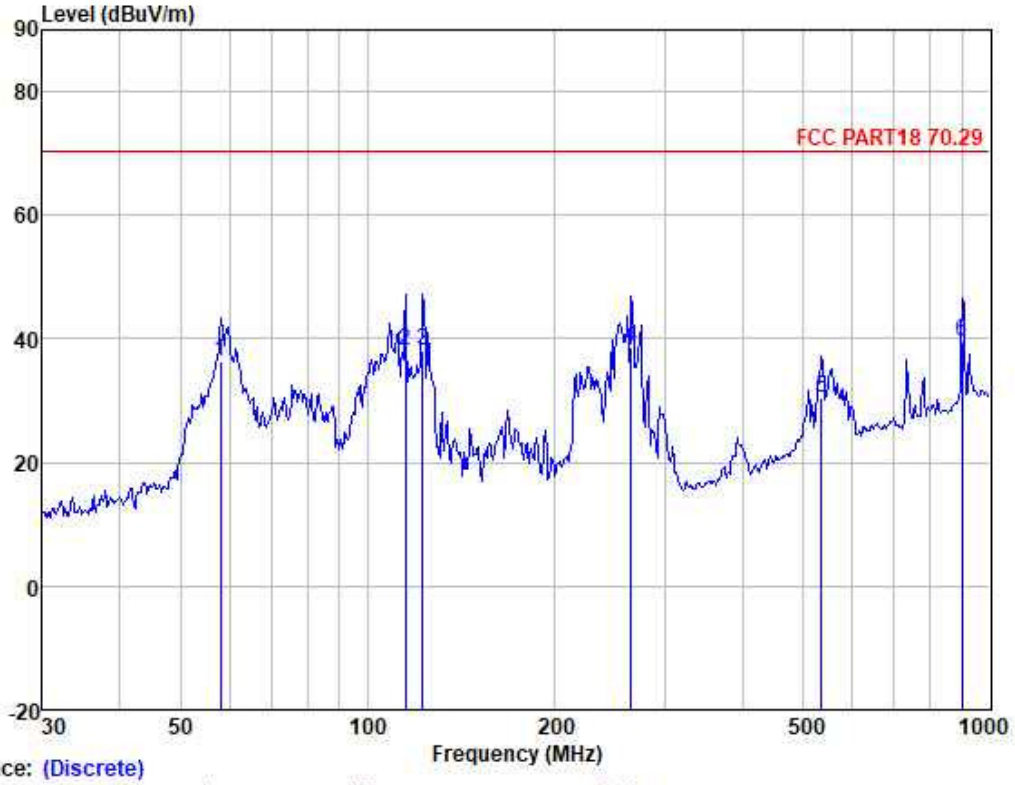
Mode:a; Polarization:Horizontal



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	57.999	48.56	13.60	1.31	27.16	36.31	70.29	-33.98	HORIZONTAL	Average
2	114.917	52.85	10.63	1.74	27.07	38.15	70.29	-32.14	HORIZONTAL	Average
3	122.404	52.21	11.17	1.78	27.05	38.11	70.29	-32.18	HORIZONTAL	Average
4	264.746	50.61	12.40	2.72	26.99	38.74	70.29	-31.55	HORIZONTAL	Average
5	535.707	35.92	18.35	4.13	28.06	30.34	70.29	-39.95	HORIZONTAL	Average
6	900.147	38.07	23.30	6.25	27.95	39.67	70.29	-30.62	HORIZONTAL	Average

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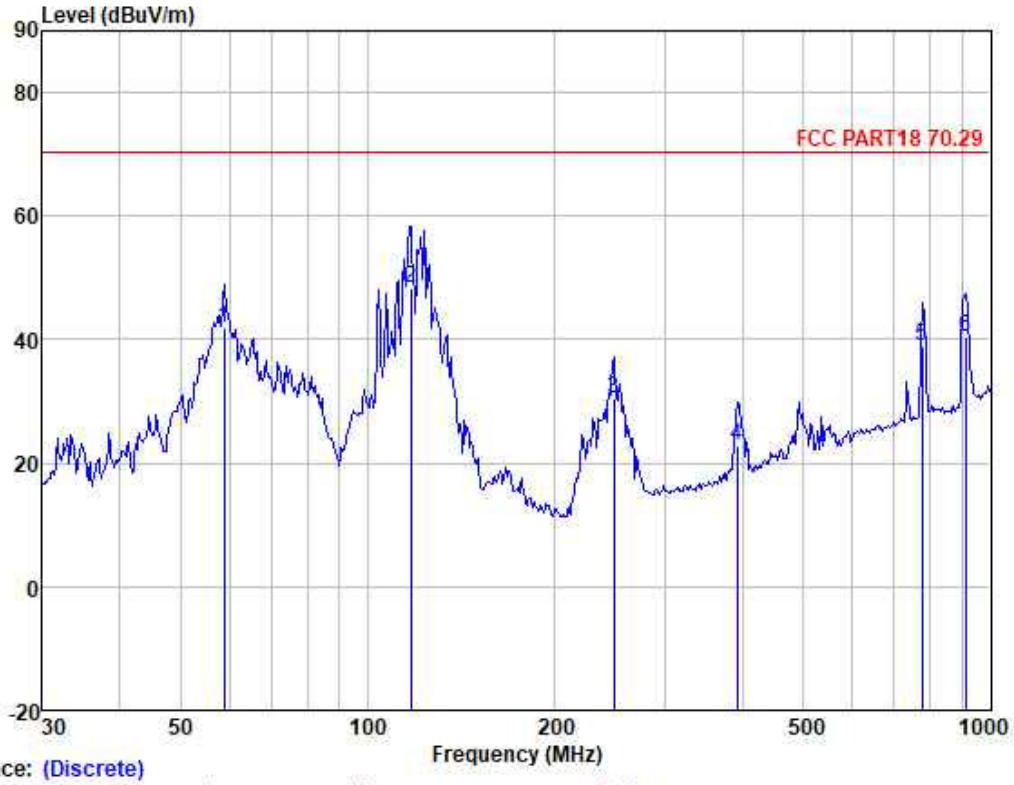
Mode:a; Polarization:Vertical



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	58.819	54.35	13.52	1.32	27.16	42.03	70.29	-28.26	VERTICAL	Average
2	117.360	63.02	10.70	1.76	27.06	48.42	70.29	-21.87	VERTICAL	Average
3	248.552	42.48	12.07	2.69	26.93	30.31	70.29	-39.98	VERTICAL	Average
4	392.095	31.31	15.60	3.70	27.88	22.73	70.29	-47.56	VERTICAL	Average
5	776.878	39.35	22.28	5.37	28.12	38.88	70.29	-31.41	VERTICAL	Average
6	912.862	38.50	23.47	6.44	27.91	40.50	70.29	-29.79	VERTICAL	Average

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6.6 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 =854.6W according to clause 6.2.2

Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=30.29+40=70.29dBuV/m @ 3m distance.**

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 54 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:
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.

The worst case for final test: a: Test the EUT in microwave mode with maximum power.

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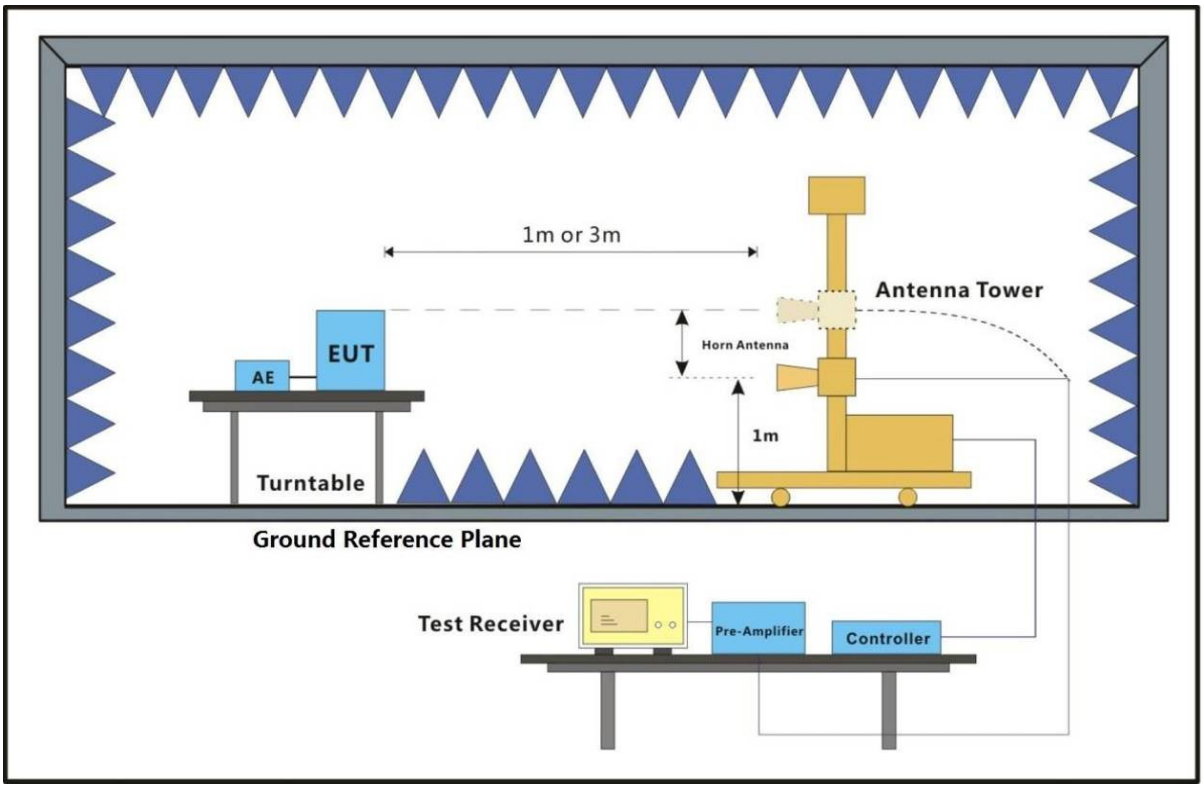
6.6.2 Test Setup Diagram



6.6.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. 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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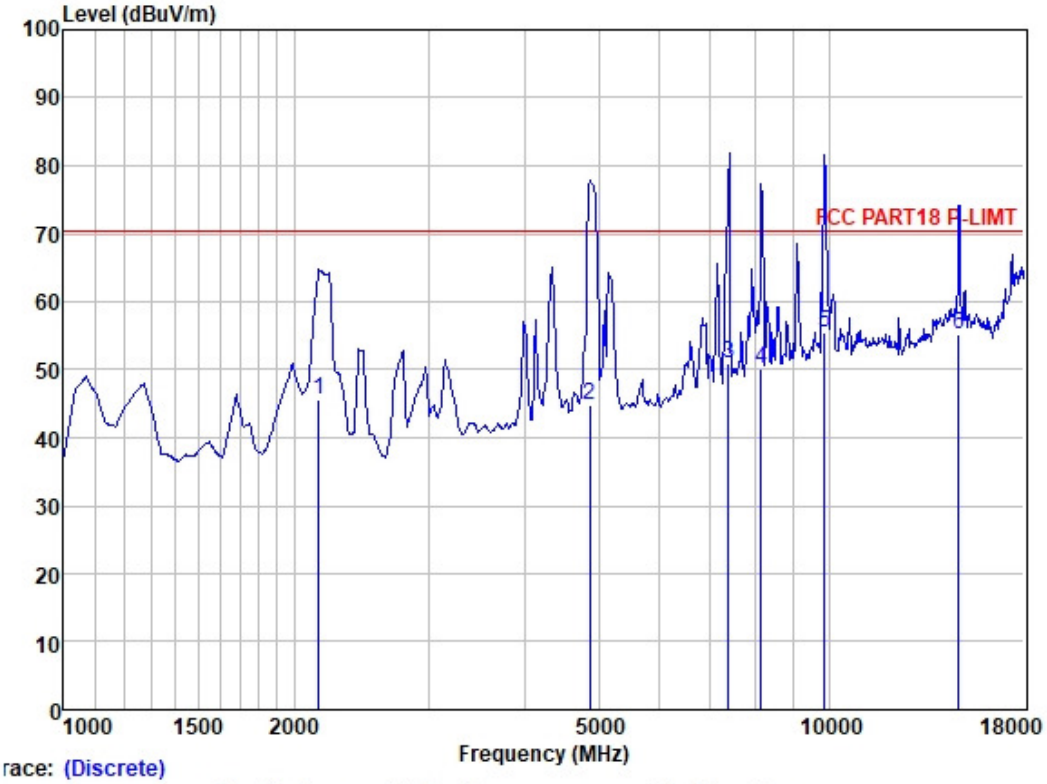

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2157.260	53.04	26.45	3.18	36.97	45.70	70.29	-24.59	HORIZONTAL	Average
2	4874.072	44.21	31.54	5.50	36.49	44.76	70.29	-25.53	HORIZONTAL	Average
3	7399.677	45.24	36.17	6.19	36.77	50.83	70.29	-19.46	HORIZONTAL	Average
4	8153.195	43.73	36.96	6.30	36.78	50.21	70.29	-20.08	HORIZONTAL	Average
5	9866.789	46.23	38.60	6.98	36.32	55.49	70.29	-14.80	HORIZONTAL	Average
6	14788.150	41.31	40.94	8.52	35.51	55.26	70.29	-15.03	HORIZONTAL	Average

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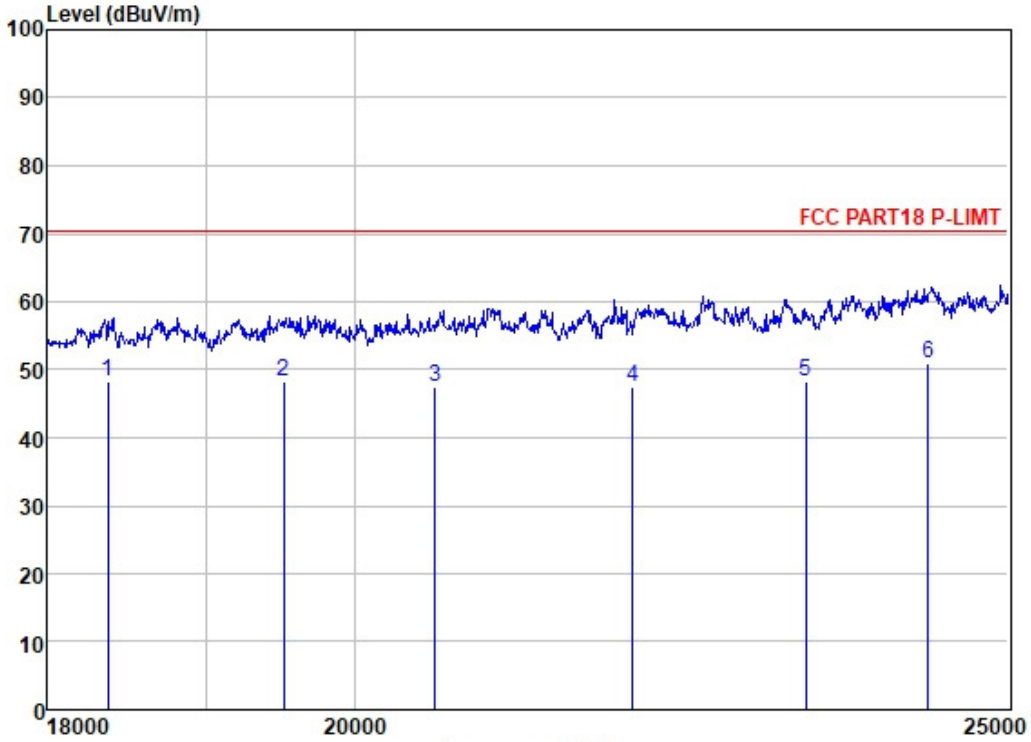

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18376.400	28.93	37.93	16.62	35.21	48.27	70.29	-22.02	HORIZONTAL	Average
2	19515.010	28.98	38.00	17.11	35.77	48.32	70.29	-21.97	HORIZONTAL	Average
3	20547.900	27.50	37.94	17.73	35.73	47.44	70.29	-22.85	HORIZONTAL	Average
4	21986.550	25.81	38.20	18.60	35.20	47.41	70.29	-22.88	HORIZONTAL	Average
5	23325.830	24.70	39.60	19.51	35.42	48.39	70.29	-21.90	HORIZONTAL	Average
6	24327.560	26.31	39.52	20.60	35.59	50.84	70.29	-19.45	HORIZONTAL	Average

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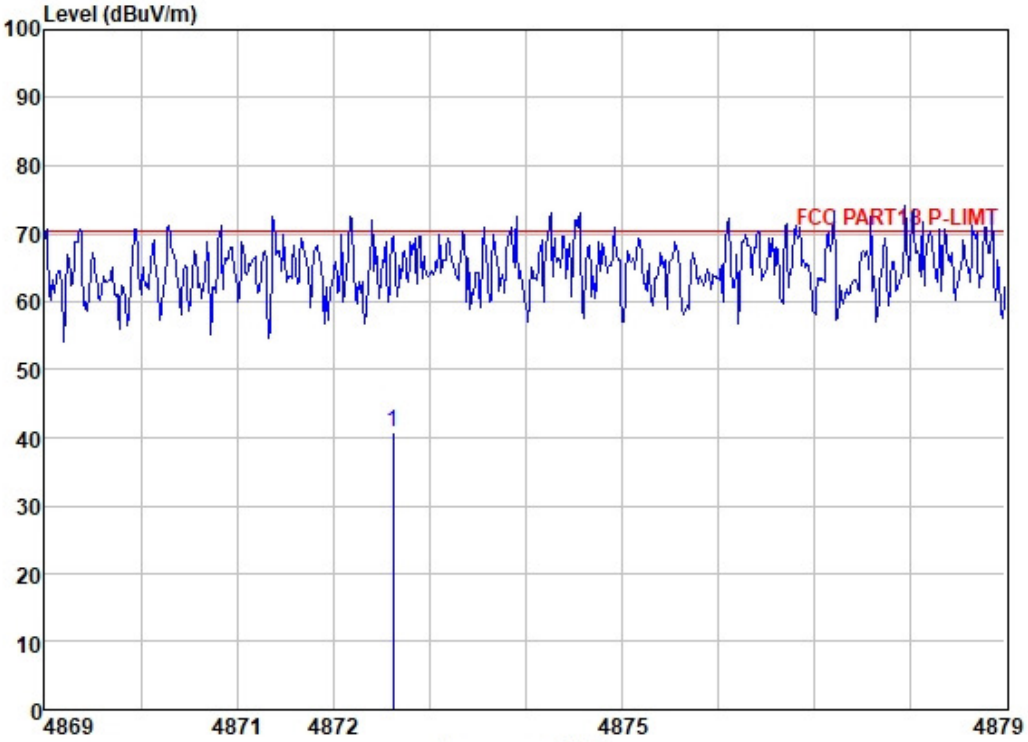
Mode:a; Polarization:Horizontal



race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4872.627	40.13	31.54	5.50	36.49	40.68	70.29	-29.61	HORIZONTAL	Average

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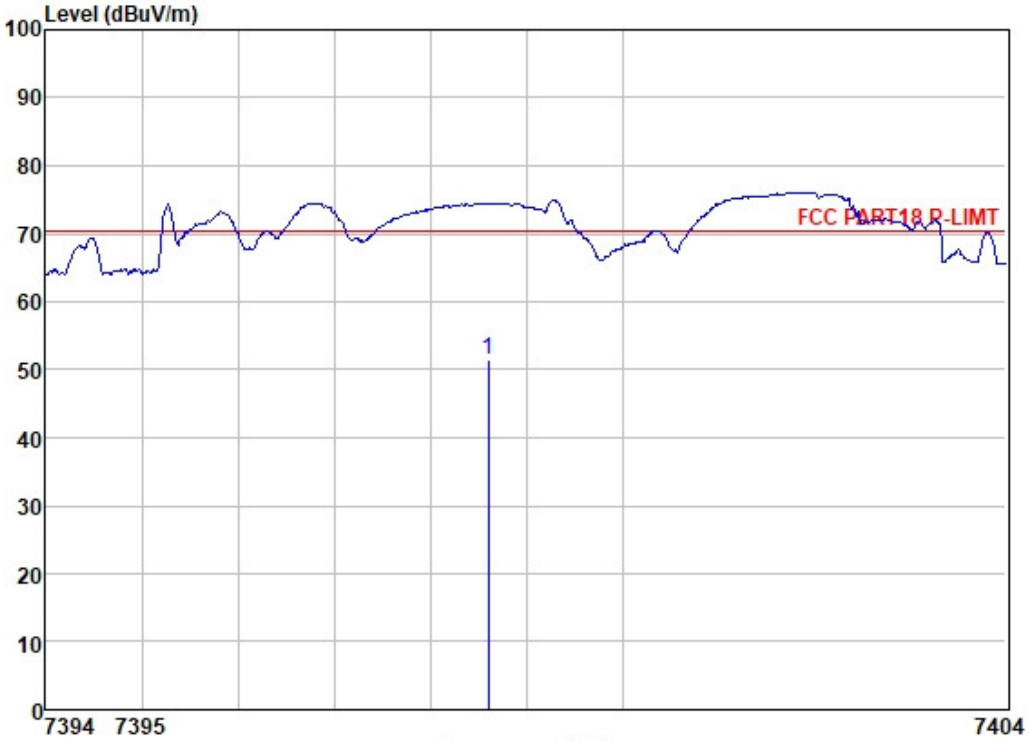

race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7398.608	45.88	36.17	6.19	36.77	51.47	70.29	-18.82	HORIZONTAL	Average

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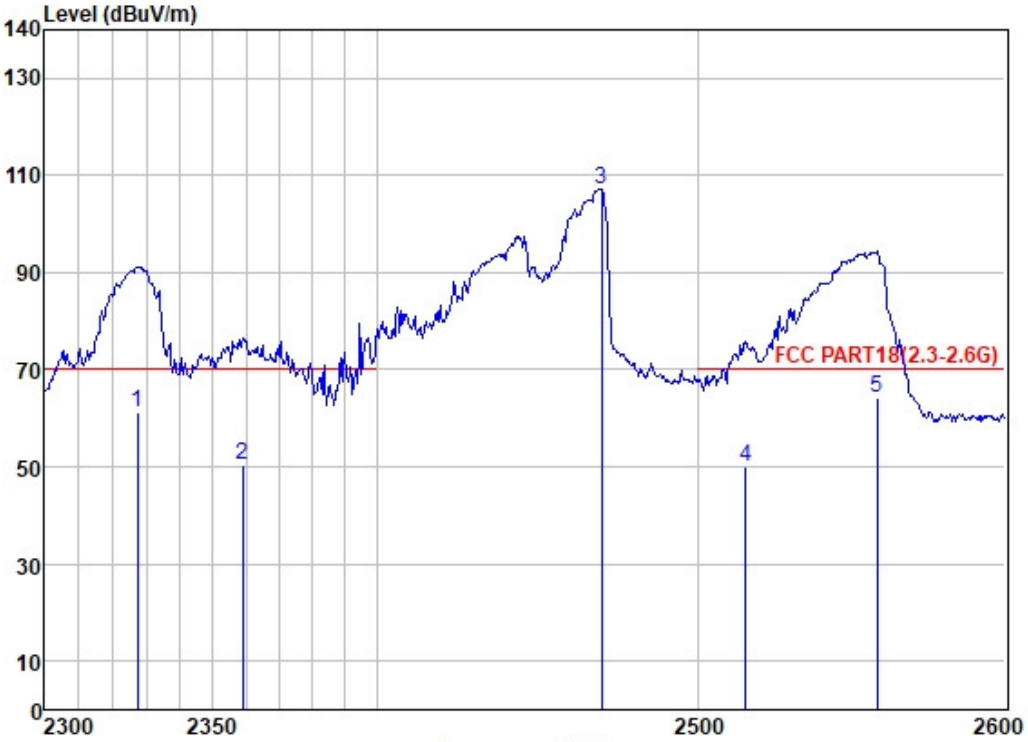

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2327.516	30.70	27.19	3.34	0.00	61.23	70.29	-9.06	HORIZONTAL	Average
2	2358.829	19.71	27.27	3.42	0.00	50.40	70.29	-19.89	HORIZONTAL	Average
3	2469.507	76.21	27.46	3.55	0.00	107.22	------	------	HORIZONTAL	Peak
4	2515.342	18.98	27.52	3.41	0.00	49.91	70.29	-20.38	HORIZONTAL	Average
5	2557.948	33.37	27.57	3.46	0.00	64.40	70.29	-5.89	HORIZONTAL	Average

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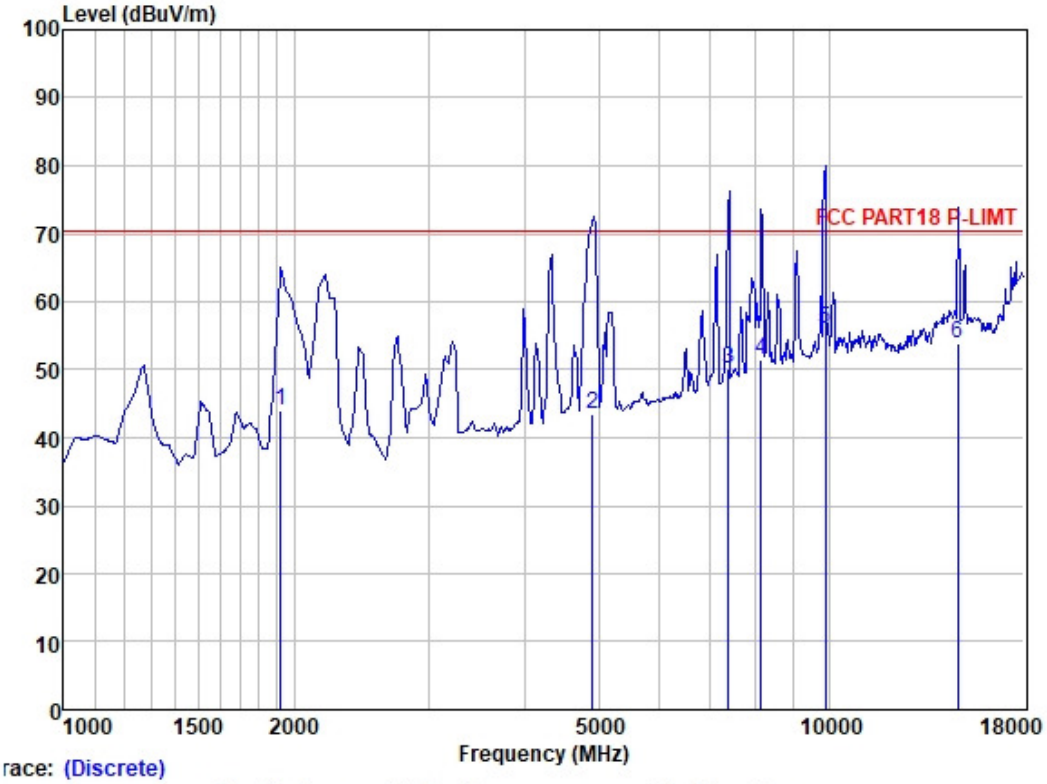

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1921.727	52.10	26.06	2.94	37.01	44.09	70.29	-26.20	VERTICAL	Average
2	4910.689	42.83	31.60	5.58	36.50	43.51	70.29	-26.78	VERTICAL	Average
3	7387.252	44.67	36.17	6.19	36.77	50.26	70.29	-20.03	VERTICAL	Average
4	8153.195	45.06	36.96	6.30	36.78	51.54	70.29	-18.75	VERTICAL	Average
5	9895.349	46.71	38.63	6.97	36.32	55.99	70.29	-14.30	VERTICAL	Average
6	14745.470	39.86	41.00	8.52	35.45	53.93	70.29	-16.36	VERTICAL	Average

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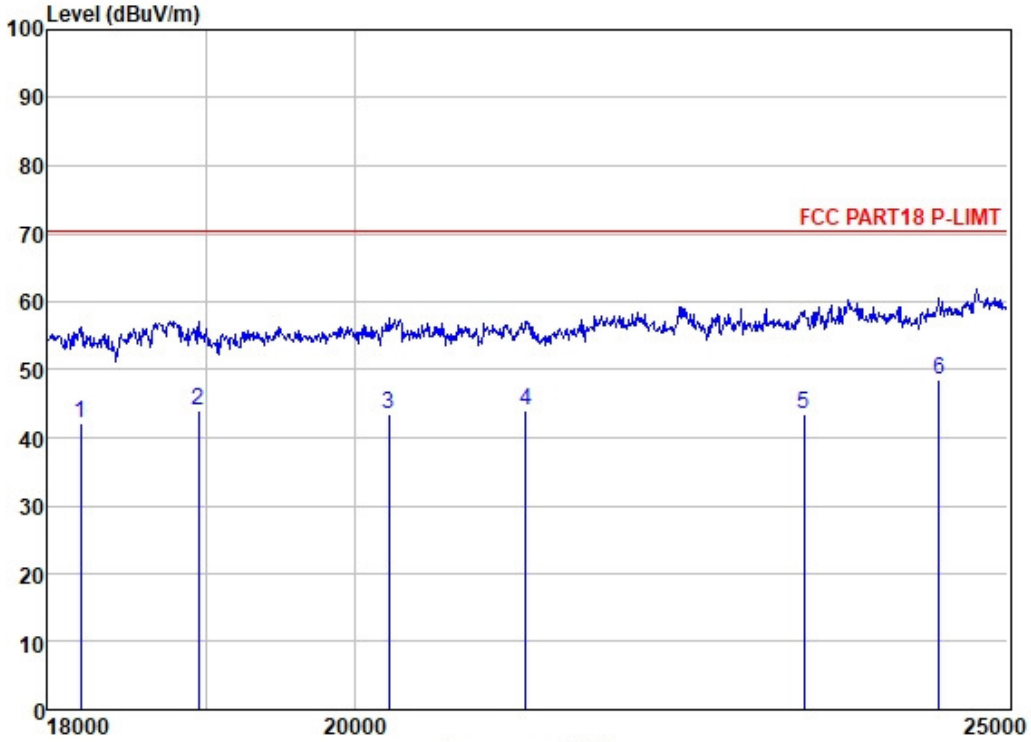

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18202.170	22.98	37.91	16.55	35.17	42.27	70.29	-28.02	VERTICAL	Average
2	18952.710	24.58	38.00	16.89	35.50	43.97	70.29	-26.32	VERTICAL	Average
3	20226.440	24.01	37.98	17.41	35.83	43.57	70.29	-26.72	VERTICAL	Average
4	21199.270	23.55	37.95	18.08	35.45	44.13	70.29	-26.16	VERTICAL	Average
5	23310.510	19.91	39.60	19.48	35.41	43.58	70.29	-26.71	VERTICAL	Average
6	24415.630	23.85	39.48	20.69	35.61	48.41	70.29	-21.88	VERTICAL	Average

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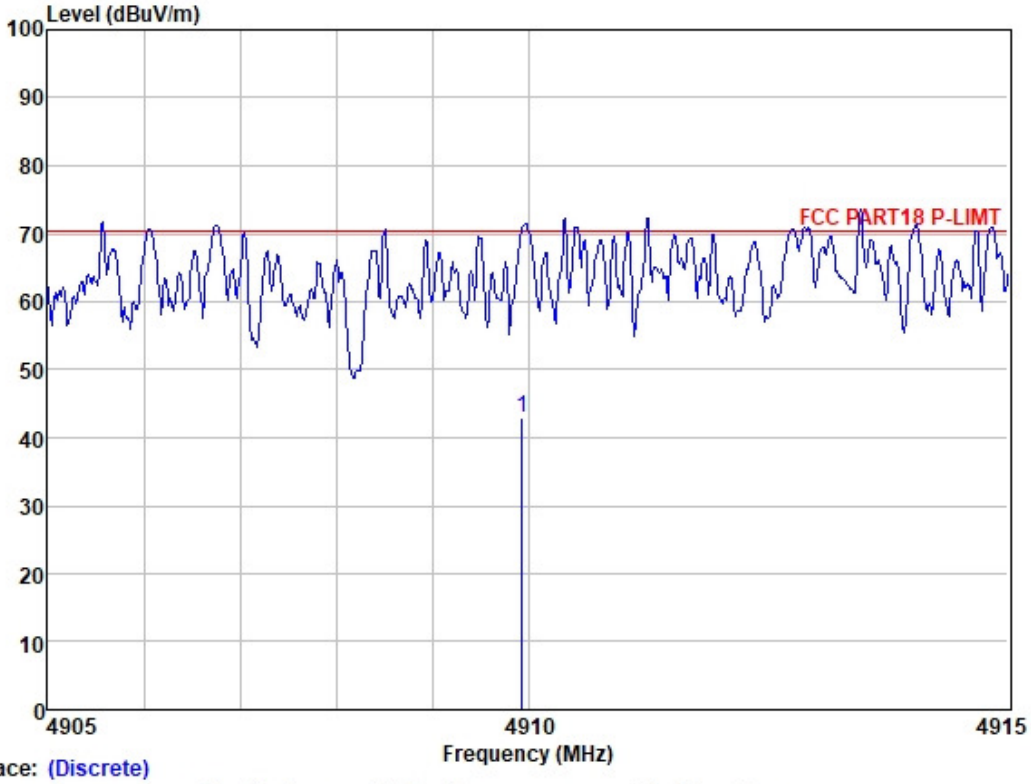

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4909.938	42.13	31.60	5.58	36.50	42.81	70.29	-27.48	VERTICAL	Average

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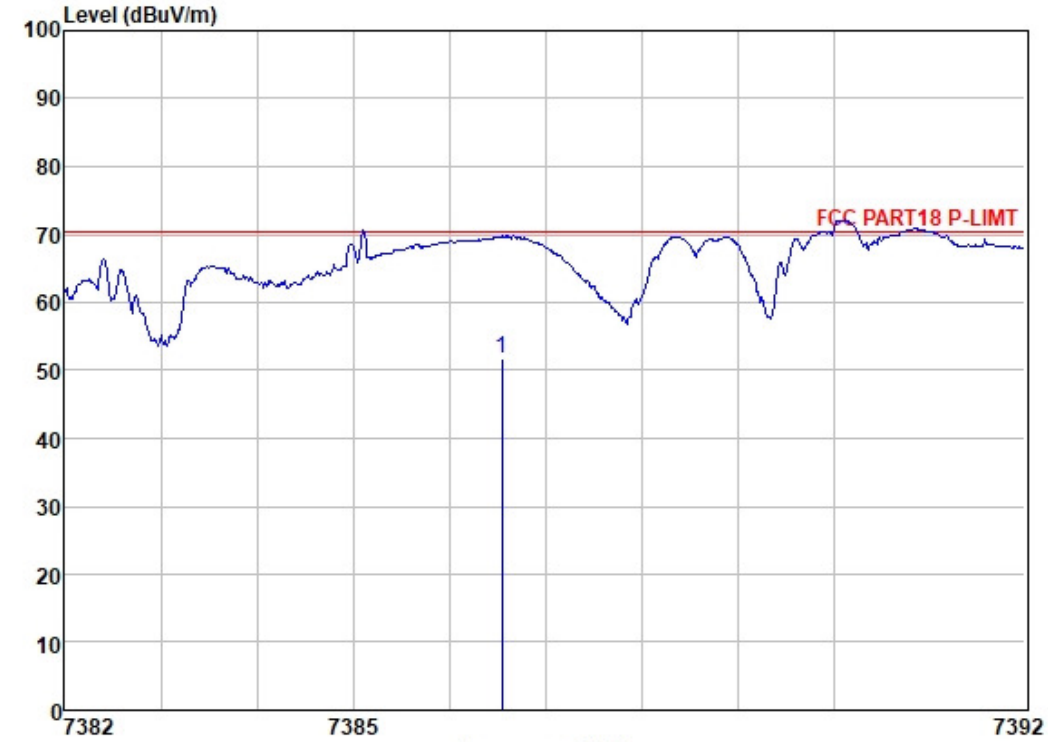

race: (Discrete)

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7386.548	46.26	36.17	6.19	36.77	51.85	70.29	-18.44	VERTICAL	Average

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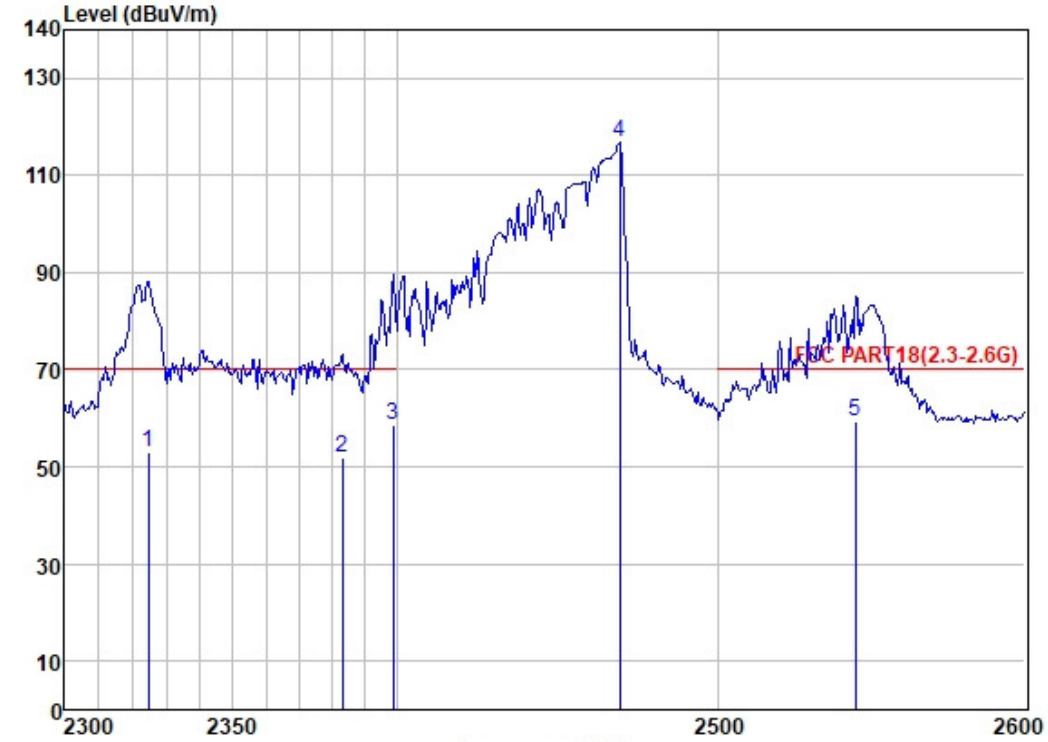

race: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2324.664	22.62	27.19	3.34	0.00	53.15	70.29	-17.14	VERTICAL	Average
2	2382.955	21.30	27.31	3.46	0.00	52.07	70.29	-18.22	VERTICAL	Average
3	2398.490	27.62	27.35	3.50	0.00	58.47	70.29	-11.82	VERTICAL	Average
4	2468.901	85.70	27.46	3.55	0.00	116.71	------	------	VERTICAL	Peak
5	2544.186	28.29	27.55	3.44	0.00	59.28	70.29	-11.01	VERTICAL	Average

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6.7 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 =854.6W according to clause 6.2.2

Limit**=20lg(25*SQRT(power/500))+20lg(300/10)=59.83dBuV/m @ 10m distance.**

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Pretest these modes to find the worst case:
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.

The worst case for final test: a: Test the EUT in microwave mode with maximum power.

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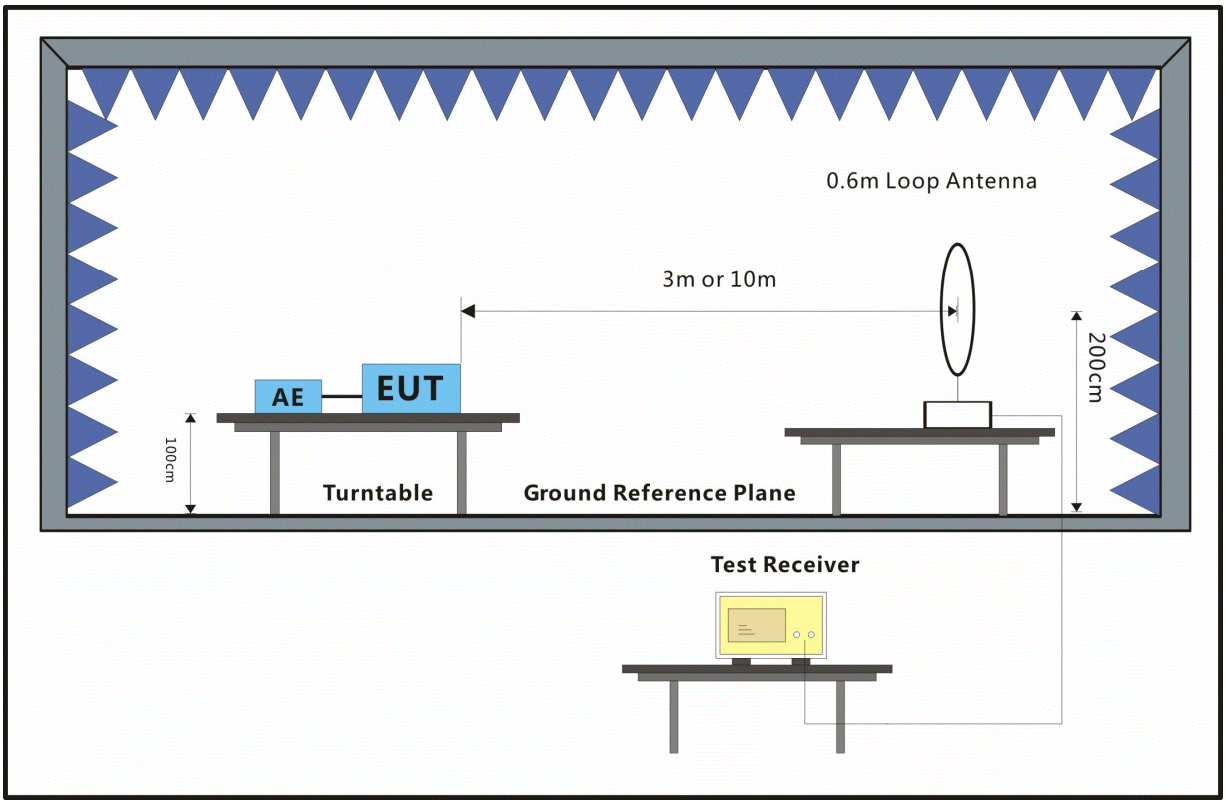
6.7.2 Test Setup Diagram



6.7.3 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

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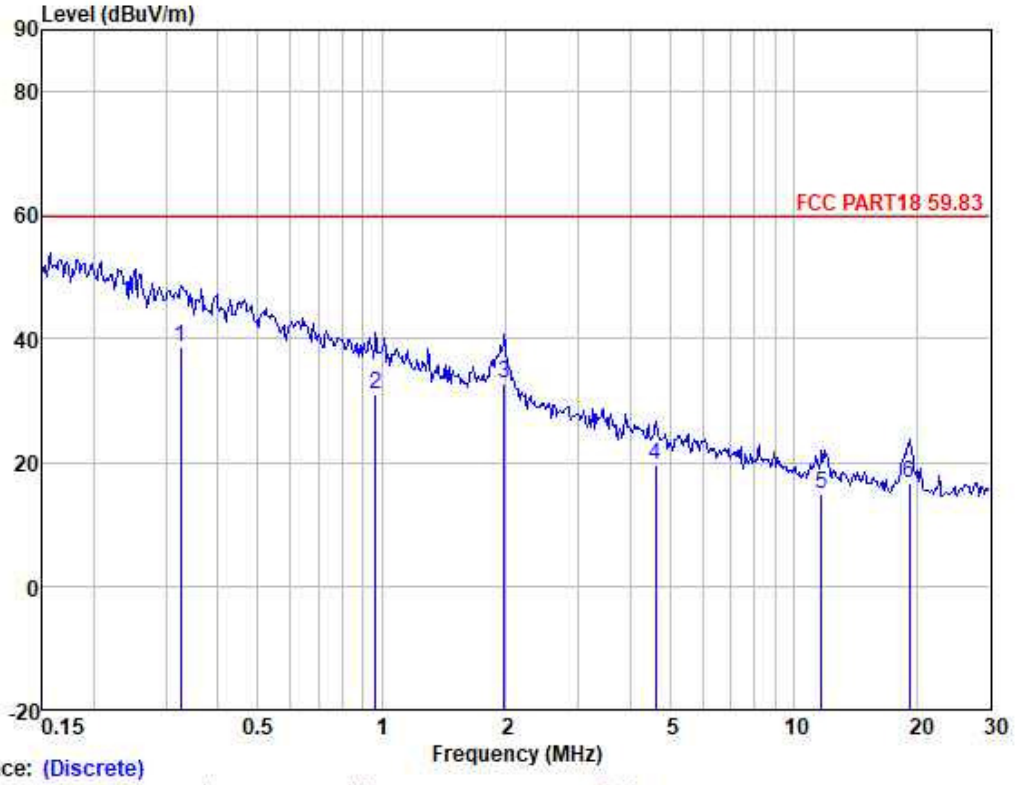

Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.325	57.32	10.74	0.10	29.41	38.75	59.83	-21.08	HORIZONTAL	Average
2	0.963	49.81	10.41	0.10	29.38	30.94	59.83	-28.89	HORIZONTAL	Average
3	1.980	51.08	11.00	0.10	29.36	32.82	59.83	-27.01	HORIZONTAL	Average
4	4.622	38.30	10.52	0.20	29.33	19.69	59.83	-40.14	HORIZONTAL	Average
5	11.683	34.29	9.66	0.37	29.28	15.04	59.83	-44.79	HORIZONTAL	Average
6	19.021	37.09	8.44	0.50	29.24	16.79	59.83	-43.04	HORIZONTAL	Average

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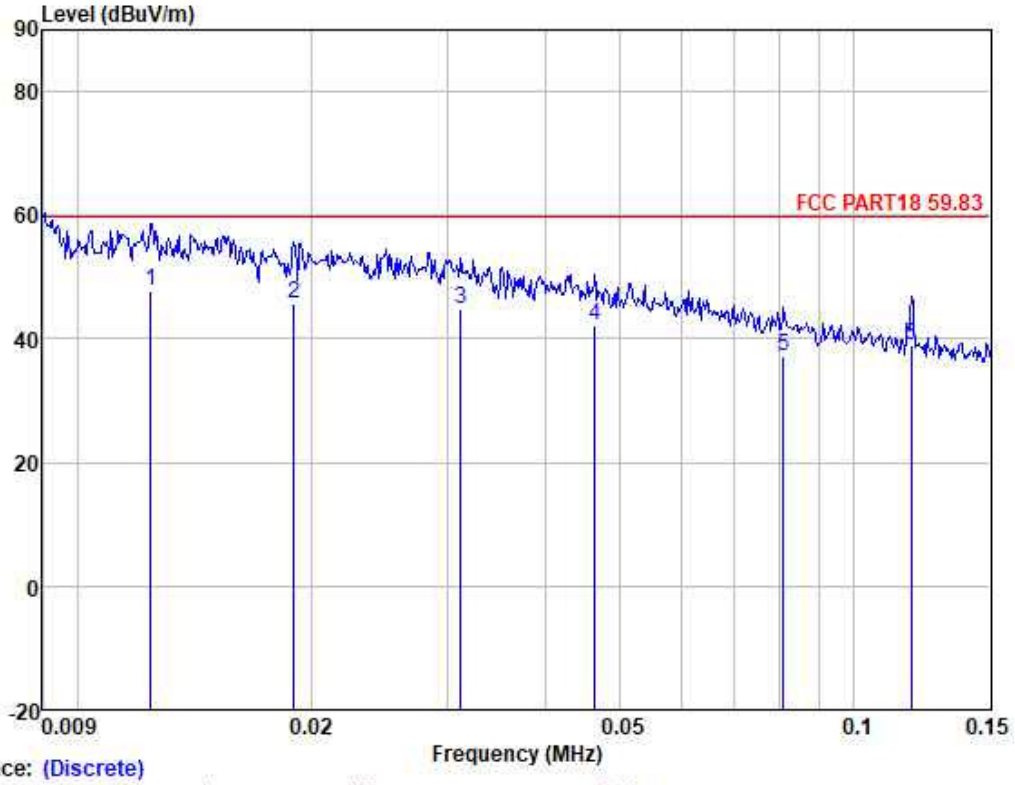

Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.012	60.59	15.20	0.00	28.12	47.67	59.83	-12.16	HORIZONTAL	Average
2	0.019	60.80	13.10	0.00	28.26	45.64	59.83	-14.19	HORIZONTAL	Average
3	0.031	61.29	12.48	0.00	28.85	44.92	59.83	-14.91	HORIZONTAL	Average
4	0.046	59.58	11.94	0.00	29.23	42.29	59.83	-17.54	HORIZONTAL	Average
5	0.081	55.85	10.70	0.00	29.41	37.14	59.83	-22.69	HORIZONTAL	Average
6	0.118	57.83	10.46	0.00	29.46	38.83	59.83	-21.00	HORIZONTAL	Average

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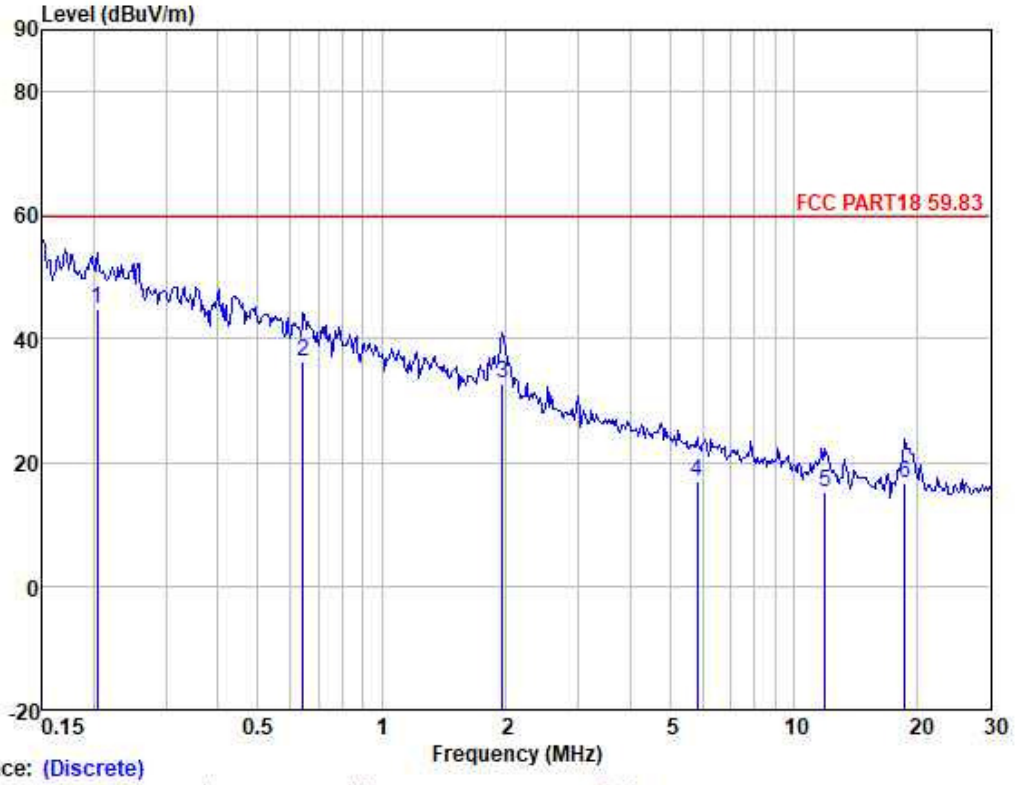

Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.204	63.43	10.80	0.01	29.43	44.81	59.83	-15.02	VERTICAL	Average
2	0.644	54.86	10.62	0.10	29.39	36.19	59.83	-23.64	VERTICAL	Average
3	1.959	51.15	10.99	0.10	29.36	32.88	59.83	-26.95	VERTICAL	Average
4	5.836	35.47	10.45	0.28	29.32	16.88	59.83	-42.95	VERTICAL	Average
5	11.933	34.51	9.59	0.40	29.28	15.22	59.83	-44.61	VERTICAL	Average
6	18.622	36.92	8.46	0.47	29.24	16.61	59.83	-43.22	VERTICAL	Average

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center EEC Laboratory.

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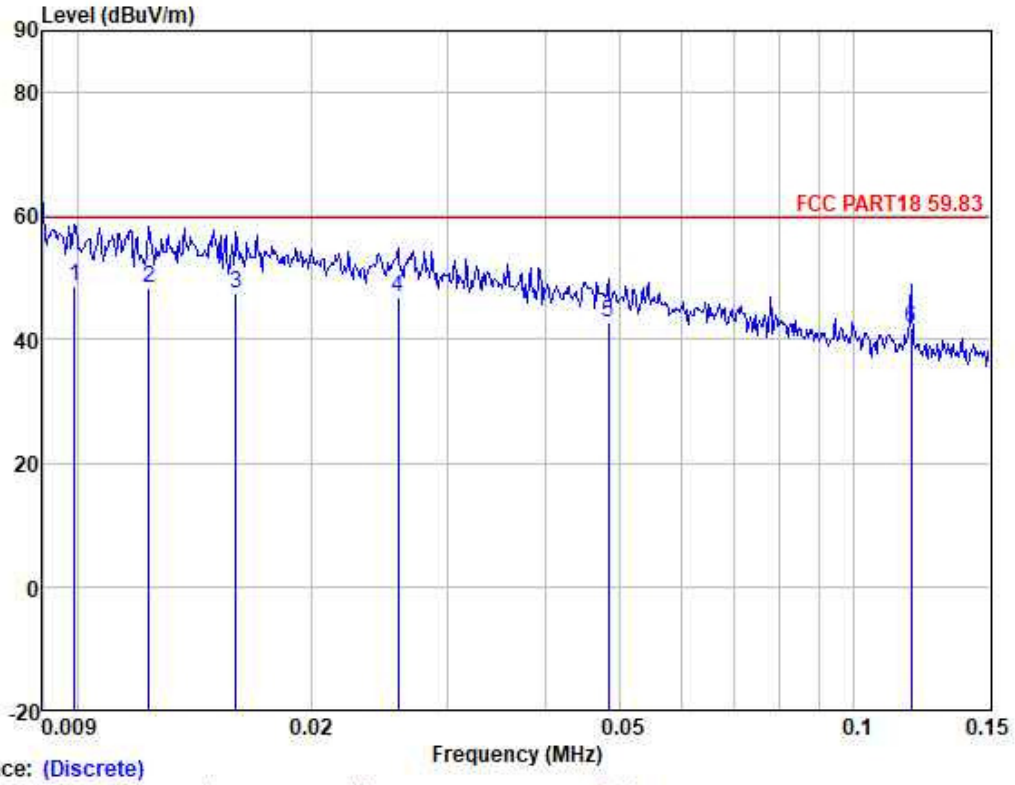
Mode:a; Polarization:Vertical



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	60.82	15.94	0.00	28.06	48.70	59.83	-11.13	VERTICAL	Average
2	0.012	61.19	15.23	0.00	28.11	48.31	59.83	-11.52	VERTICAL	Average
3	0.016	62.07	13.62	0.00	28.19	47.50	59.83	-12.33	VERTICAL	Average
4	0.026	62.56	12.81	0.00	28.49	46.88	59.83	-12.95	VERTICAL	Average
5	0.048	60.03	11.92	0.00	29.25	42.70	59.83	-17.13	VERTICAL	Average
6	0.118	60.88	10.46	0.00	29.46	41.88	59.83	-17.95	VERTICAL	Average

--End of Report--

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