



198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technological
 Development District, Guangzhou, China 510663
 Telephone: +86 (0) 20 82155555
 Fax: +86 (0) 20 82075059
 Email: ee.guangzhou@sgs.com

Report No.: GZEM191101697402
 Page: 1 of 37

TEST REPORT

Application No.: GZEM1911016974HS
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):

EUT Name: Microwave Oven
Model No.: GSWWD14S2S11, GSWWD14S1S11, GSWWD14BKS11,
 P110N38DAPH-WD, P110N38 (X) -(Y), P110N38 (X) H -(Y)
 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.
 Variable (Y) may compose by one to five characters from A to Z and/or
 numbers from 0 to 9. □

□ 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: 2019-11-12
Date of Test: 2019-11-23 to 2019-11-25
Date of Issue: 2019-12-10

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


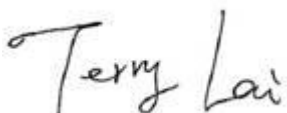
Kobe Jian
 EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-12-10		Original

Authorized for issue by:			
Tested By			2019-11-23 to 2019-11-25
	Damon_Guan /Project Engineer		Date
Checked By			2019-12-10
	Terry_Lai /Reviewer		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	N/A	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass
Operating Frequency	47 CFR Part 18	FCC OST/MP-5:1986	N/A	Pass

N/A: not applicable.

Declaration of EUT Family Grouping:

Model No.: GSWWD14S2S11, GSWWD14S1S11, GSWWD14BKS11, P110N38DAPH-WD, P110N38(X)-(Y), P110N38(X)H-(Y)

P: with microwave function only

110: denote the output power is 1100W

38/30: denote different cavity in 38/30 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.

GSWWD14S2S11, GSWWD14S1S11, GSWWD14BKS11 are identical to P110N38DAPH-WD except for the model 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, model name.

Therefore only one model P110N38DAPH-WD 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

Description	Manufacturer	Model No.	Serial No.
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

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	Temperature	±0.4°C
5	Humidity	±1.3%
6	DC power	±0.5 %

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

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	2019-12-18
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	2019-12-18
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	2019-12-18
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

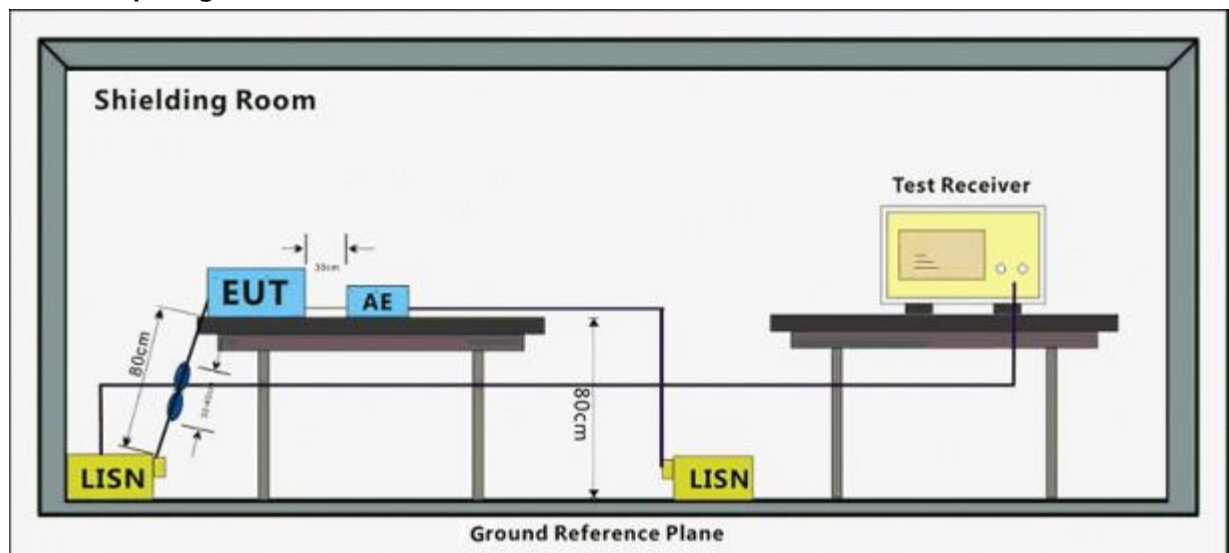
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 51.2 % RH Atmospheric Pressure: 1018 mbar

Test 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.

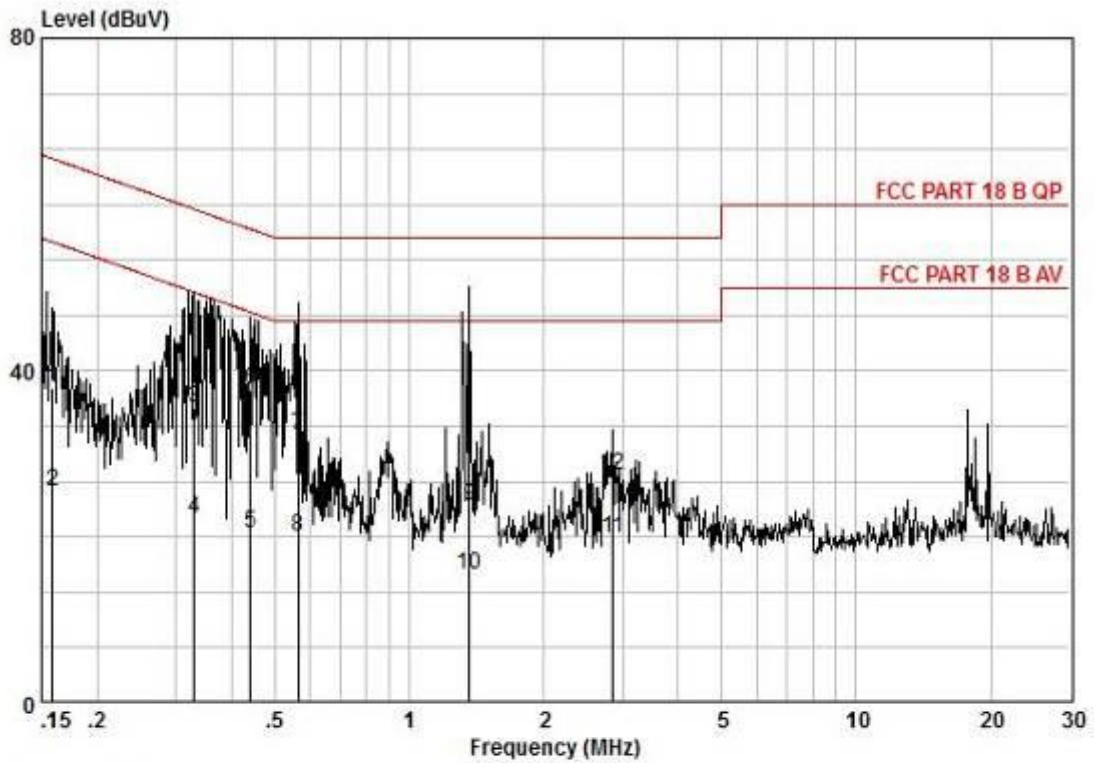
Measured Level = Read level + Cable Loss + LISN Factor



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Mode:a; Line:Live Line



Pol : LIVE
No :
Model :

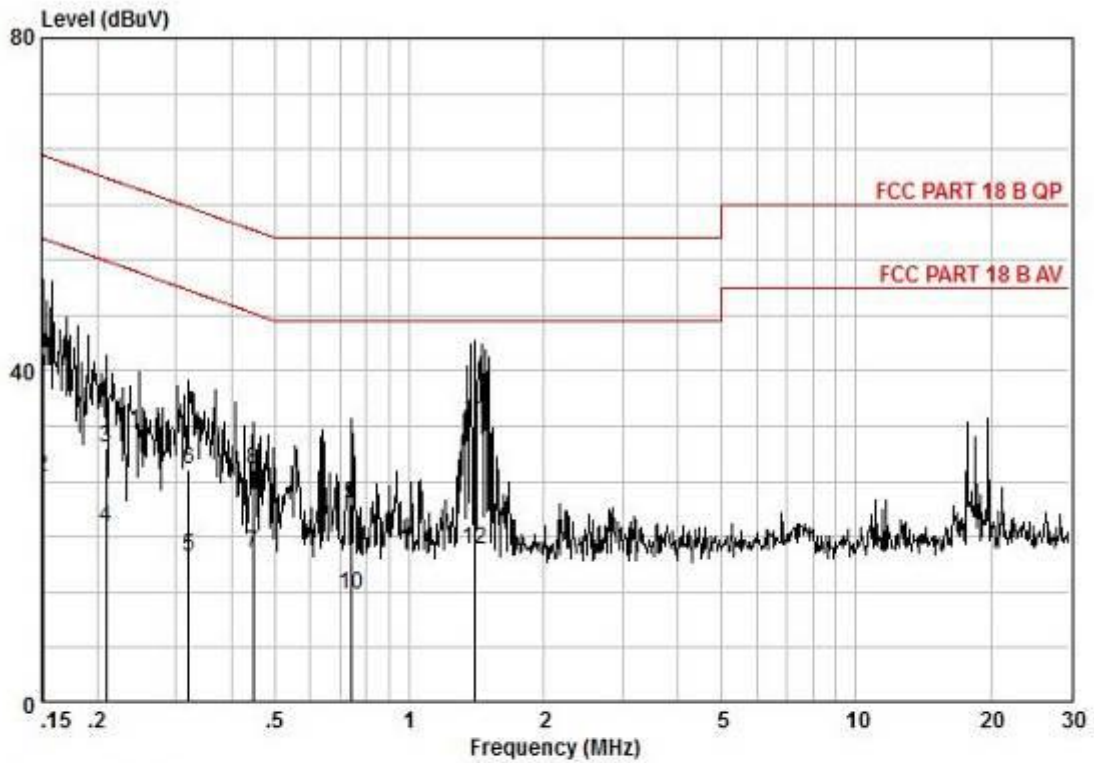
Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.16	28.19	0.10	9.67	37.96	65.52	-27.56	QP
0.16	15.63	0.10	9.67	25.40	55.52	-30.12	AVERAGE
0.33	25.78	0.10	9.66	35.54	59.44	-23.90	QP
0.33	12.44	0.10	9.66	22.20	49.44	-27.24	AVERAGE
0.44	10.78	0.10	9.66	20.54	47.07	-26.52	AVERAGE
0.44	27.94	0.10	9.66	37.70	57.07	-19.36	QP
0.56	22.55	0.10	9.67	32.32	56.00	-23.66	QP
0.56	10.27	0.10	9.67	20.04	46.00	-25.96	AVERAGE
1.37	13.90	0.10	9.68	23.68	56.00	-32.32	QP
1.37	5.68	0.10	9.68	15.46	46.00	-30.54	AVERAGE
2.85	10.02	0.19	9.69	19.90	46.00	-26.10	AVERAGE
2.85	17.50	0.19	9.69	27.38	56.00	-28.62	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	32,47	0,10	9,58	42,15	65,96	-23,81	QP
0,15	17,57	0,10	9,58	27,25	55,96	-28,71	AVERAGE
0,21	21,05	0,10	9,60	30,75	63,23	-32,48	QP
0,21	11,44	0,10	9,60	21,14	53,23	-32,09	AVERAGE
0,32	7,90	0,10	9,59	17,59	49,71	-32,12	AVERAGE
0,32	18,45	0,10	9,59	28,14	59,71	-31,57	QP
0,45	8,30	0,10	9,59	17,99	46,93	-28,94	AVERAGE
0,45	18,34	0,10	9,59	28,03	56,93	-28,90	QP
0,74	14,17	0,10	9,60	23,87	56,00	-32,13	QP
0,74	3,42	0,10	9,60	13,12	46,00	-32,88	AVERAGE
1,40	24,39	0,10	9,61	34,10	56,00	-21,90	QP
1,40	8,72	0,10	9,61	18,43	46,00	-27,57	AVERAGE



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6.1 Operating Frequency

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Frequency Range: 2400-2500 MHz
 Detector: Peak
 Limit:

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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 54.9 % RH Atmospheric Pressure: 1017 mbar

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

6.1.2 Measurement Data

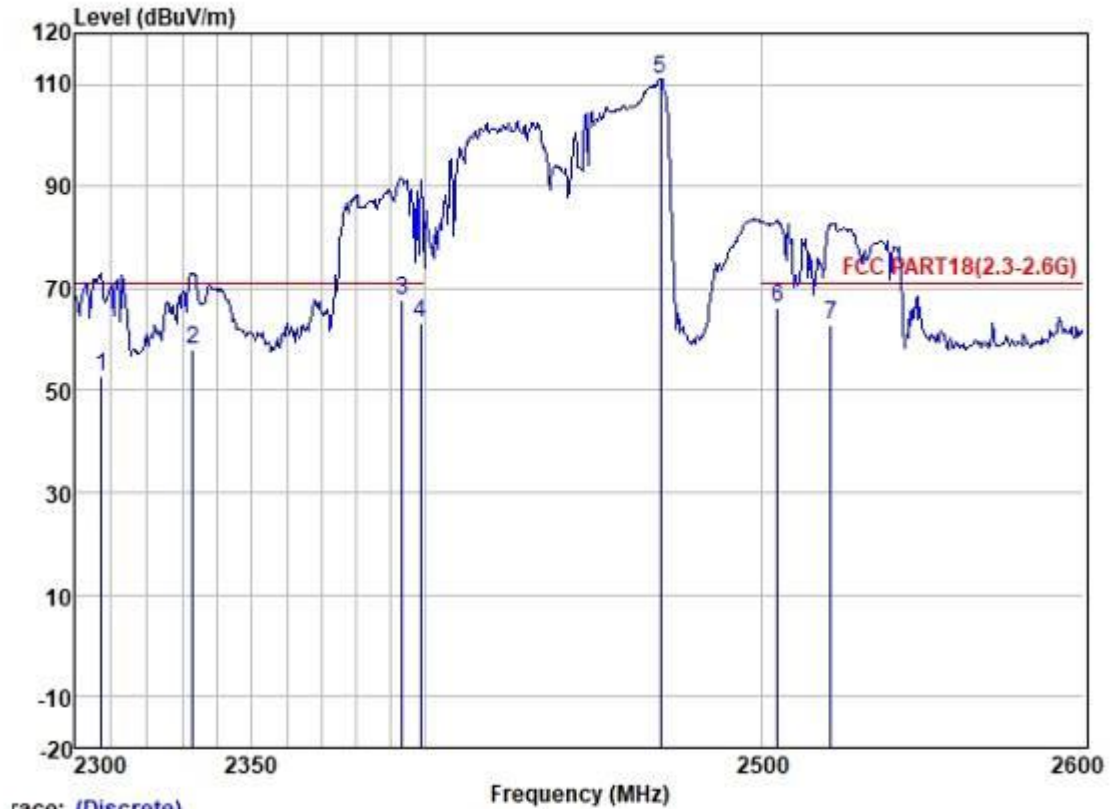
Polarization	ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
Horizontal	2450	±50	2469.5
Vertical	2450	±50	2468.3



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Mode:a; Polarization:Horizontal



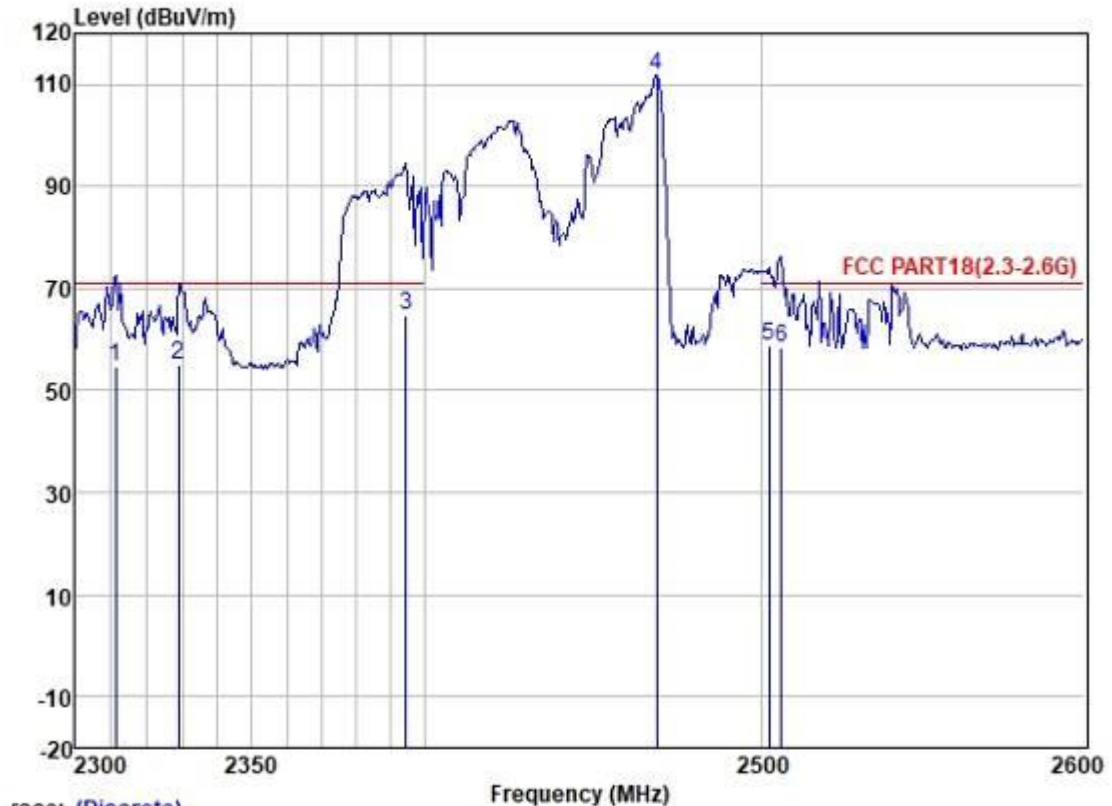
Trace: (Discrete)

	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	2307.343	23.25	26.23	3.31	0.00	52.79	71.28	-18.49	HORIZONTAL Average
2	2332.944	28.29	26.30	3.36	0.00	57.95	71.28	-13.33	HORIZONTAL Average
3	2393.202	37.87	26.44	3.49	0.00	67.80	71.28	-3.48	HORIZONTAL Average
4	2398.490	33.30	26.45	3.50	0.00	63.25	71.28	-8.03	HORIZONTAL Average
5	2469.507	81.10	26.56	3.55	0.00	111.21	-----	-----	HORIZONTAL Peak
6	2504.879	36.33	26.61	3.41	0.00	66.35	71.28	-4.93	HORIZONTAL Average
7	2521.208	32.69	26.64	3.42	0.00	62.75	71.28	-8.53	HORIZONTAL Average



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Mode:a; Polarization:Vertical



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2311.307	25.06	26.25	3.32	0.00	54.63	71.28	-16.65	VERTICAL Average
2	2328.943	25.43	26.29	3.34	0.00	55.06	71.28	-16.22	VERTICAL Average
3	2394.376	34.84	26.44	3.49	0.00	64.77	71.28	-6.51	VERTICAL Average
4	2468.296	81.72	26.56	3.55	0.00	111.83	-----	-----	VERTICAL Peak
5	2502.116	28.91	26.60	3.40	0.00	58.91	71.28	-12.37	VERTICAL Average
6	2506.107	28.40	26.61	3.41	0.00	58.42	71.28	-12.86	VERTICAL Average



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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: 23.5 °C Humidity: 54.8 % RH Atmospheric Pressure: 1018 mbar

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

6.2.2 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)
1102	410	20.8	10.4	20.4	43	1074.3

Formula :

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

NOTE :

P is the microwave power output, in watts

m_w is the mass of the water, in grams

m_c is the mass of the container, in grams

T₀ is the ambient temperature, in degrees Celsius

T₁ is the initial temperature of the water, in degrees Celsius

T₂ is the final temperature of the water, in degrees Celsius

t is the heating time, in seconds, excluding the magnetron filament heating-up time.



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6.3 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 =1074.3 W according to clause 6.2.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=71.28dBV/m @ 3m distance.



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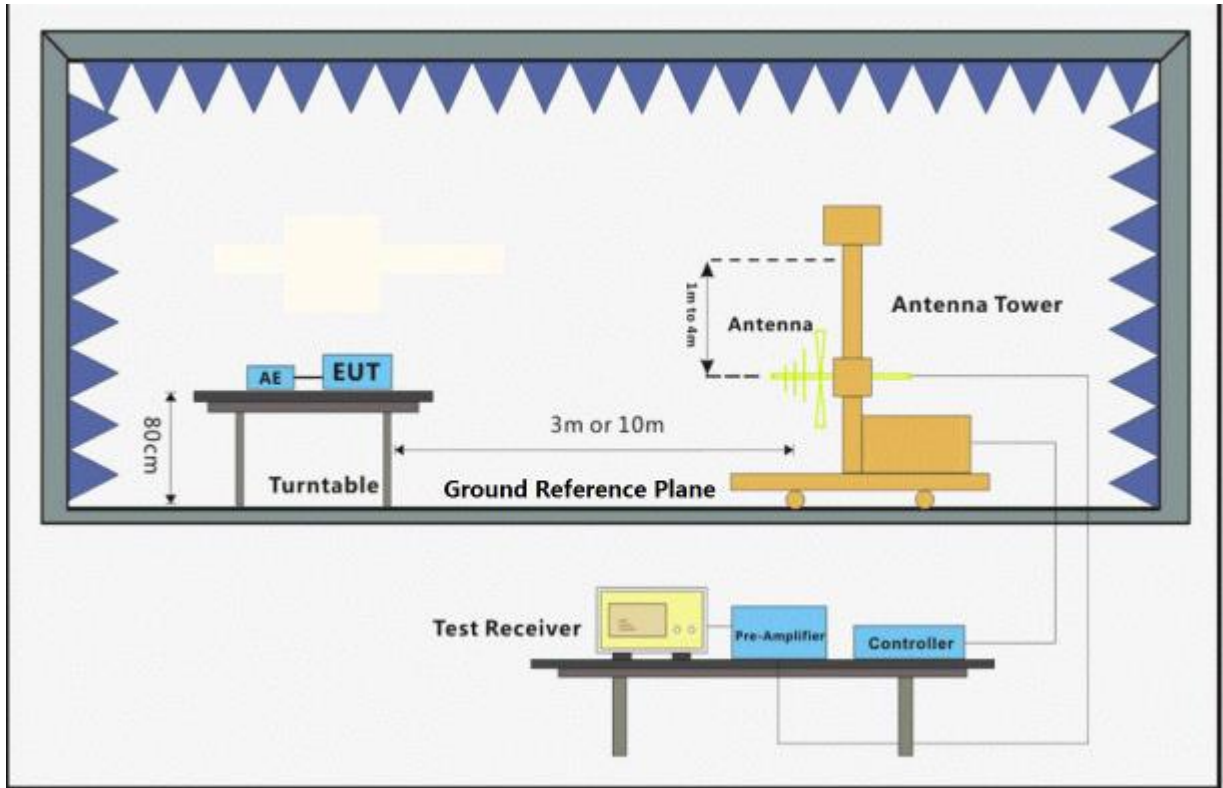
6.3.1 E.U.T. Operation

Operating Environment:

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

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

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

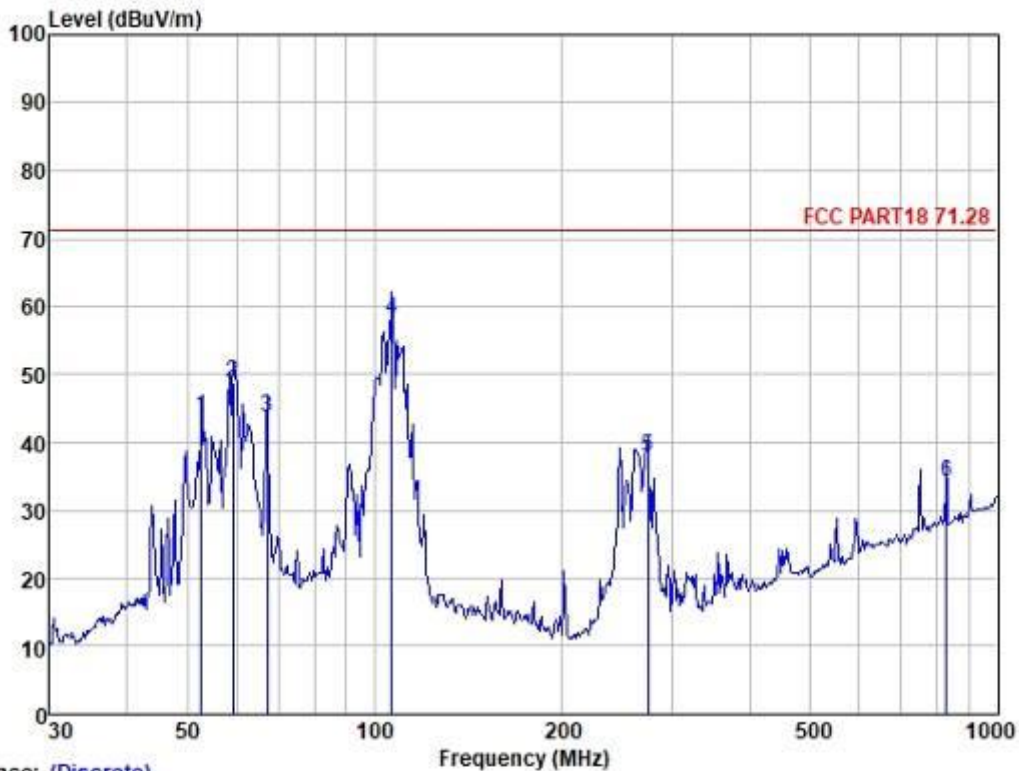
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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



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Mode:a; Polarization:Horizontal



Trace: (Discrete)

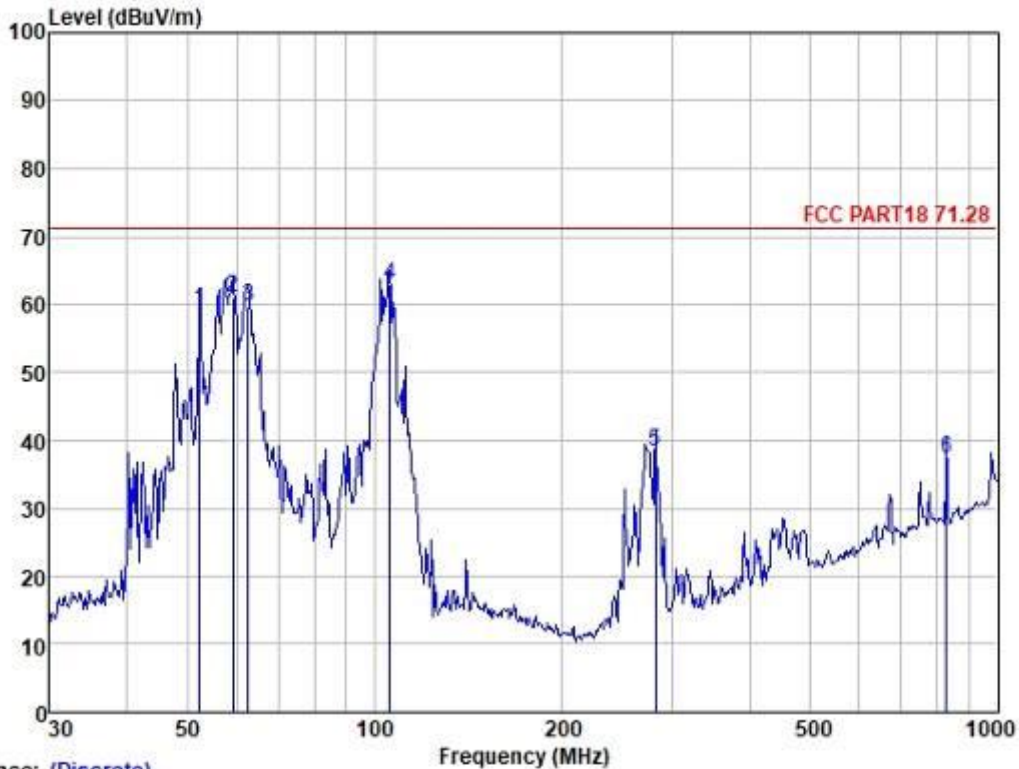
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	52.575	55.73	13.94	1.23	27.17	43.73	71.28	-27.55	HORIZONTAL Average
2	59.232	61.07	13.48	1.32	27.16	48.71	71.28	-22.57	HORIZONTAL Average
3	67.202	57.34	12.34	1.34	27.15	43.87	71.28	-27.41	HORIZONTAL Average
4	106.385	73.59	10.07	1.68	27.09	58.25	71.28	-13.03	HORIZONTAL Average
5	274.194	49.22	12.93	2.76	27.04	37.87	71.28	-33.41	HORIZONTAL Average
6	827.493	33.87	22.72	5.71	28.09	34.21	71.28	-37.07	HORIZONTAL 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	52.208	71.24	13.98	1.23	27.17	59.28	71.28	-12.00	VERTICAL Average
2	59.232	73.37	13.48	1.32	27.16	61.01	71.28	-10.27	VERTICAL Average
3	62.651	72.57	13.04	1.31	27.16	59.76	71.28	-11.52	VERTICAL Average
4	105.642	78.40	9.95	1.68	27.09	62.94	71.28	-8.34	VERTICAL Average
5	281.995	49.53	13.23	2.82	27.08	38.50	71.28	-32.78	VERTICAL Average
6	827.493	37.07	22.72	5.71	28.09	37.41	71.28	-33.87	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
- Frequency Range: Above 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 =1074.3 W according to clause 6.2.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3) =71.28dBuV/m @ 3m distance.



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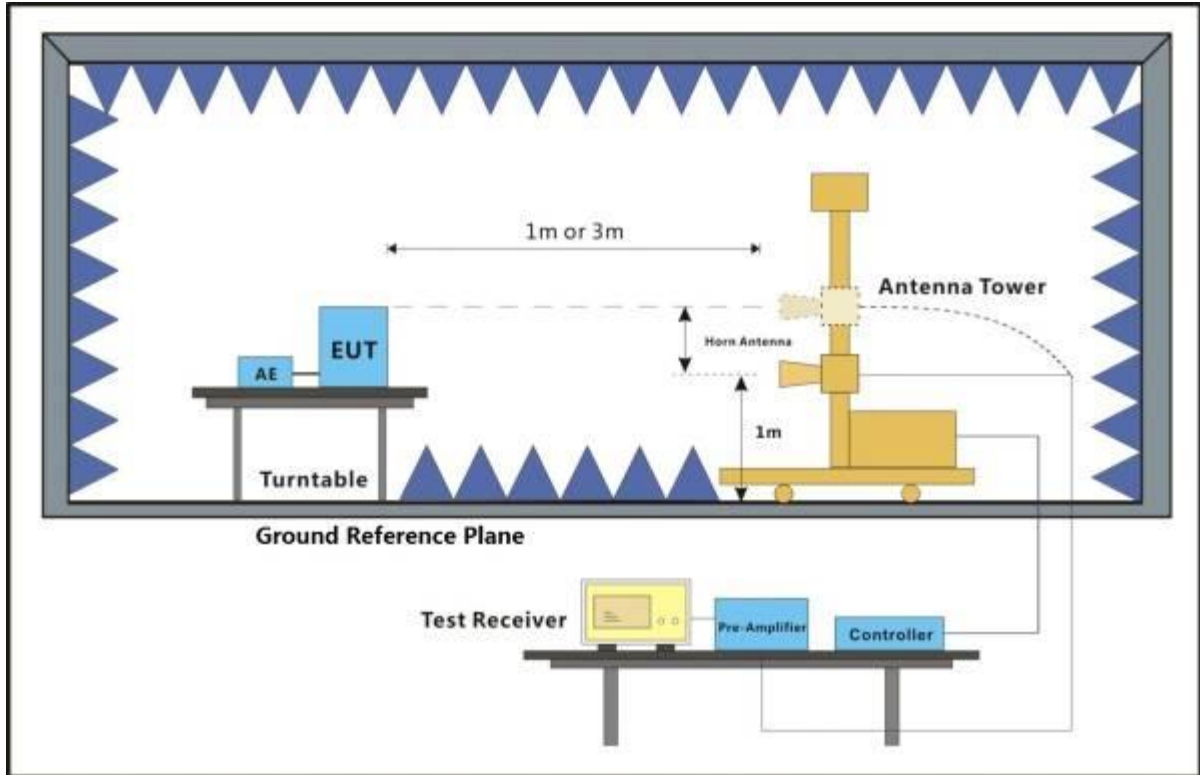
6.4.1 E.U.T. Operation

Operating Environment:

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

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

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. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

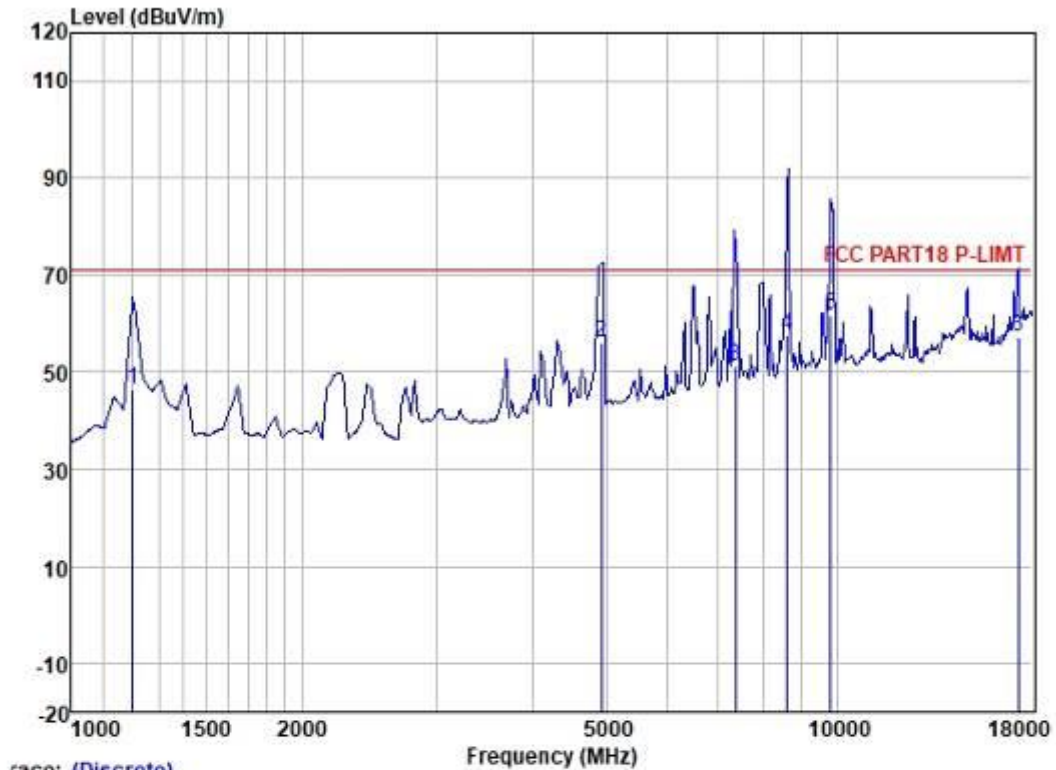
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:a; Polarization:Horizontal

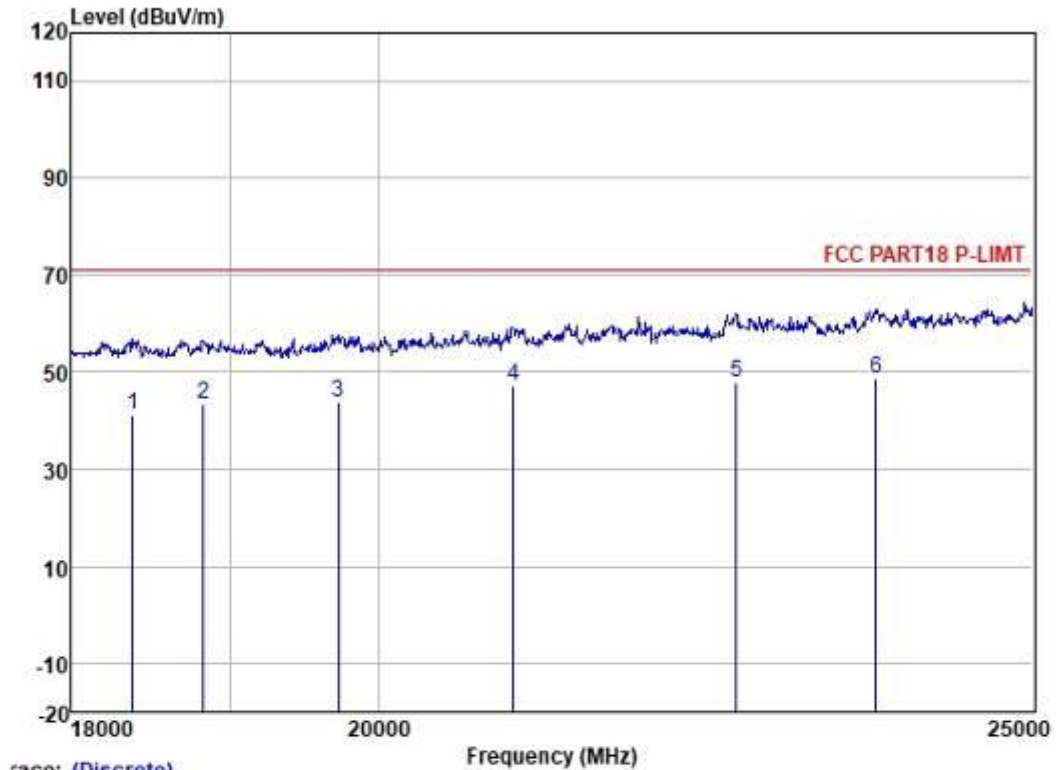


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1203.199	57.79	24.45	2.34	38.19	46.39	71.28	-24.89	HORIZONTAL Average
2	4926.120	56.49	31.01	5.60	36.95	56.15	71.28	-15.13	HORIZONTAL Average
3	7361.084	46.08	35.82	6.17	36.92	51.15	71.28	-20.13	HORIZONTAL Average
4	8620.060	51.72	36.18	6.88	36.95	57.83	71.28	-13.45	HORIZONTAL Average
5	9819.655	54.00	37.79	7.00	37.09	61.70	71.28	-9.58	HORIZONTAL Average
6	17236.280	40.81	42.20	10.08	35.78	57.31	71.28	-13.97	HORIZONTAL Average



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Mode:a; Polarization:Horizontal

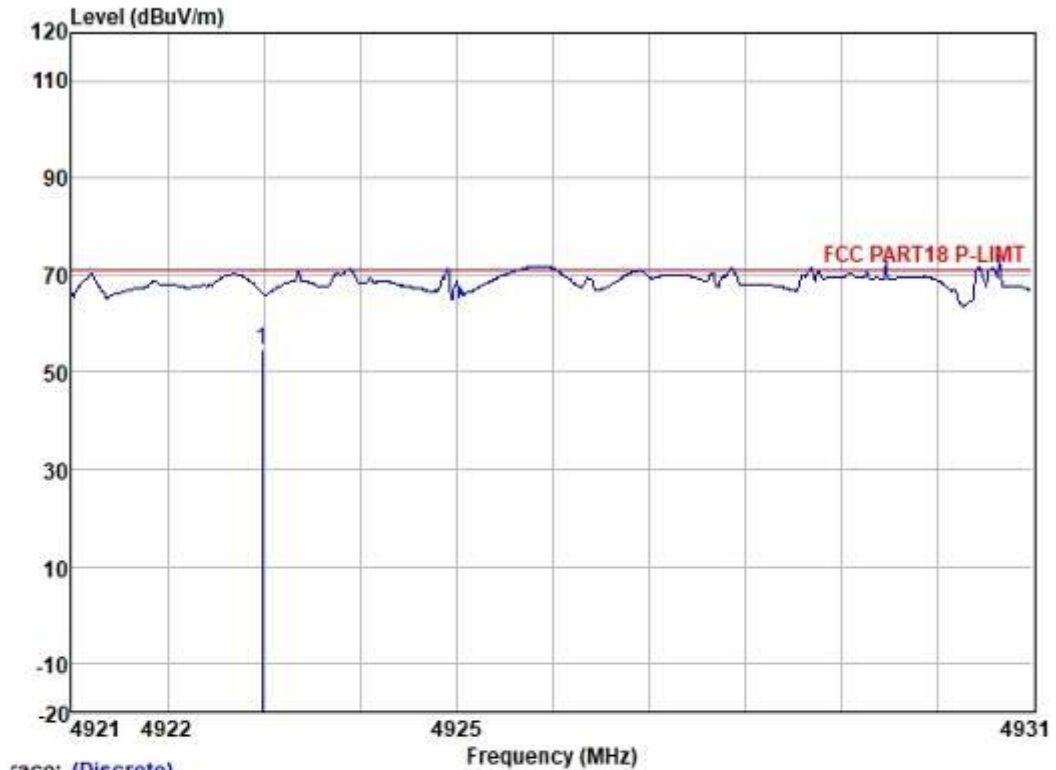


Trace: (Discrete)	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18382.440	22.14	37.93	16.62	35.60	41.09	71.28	-30.19	HORIZONTAL Average
2	18828.600	24.32	37.99	16.86	35.60	43.57	71.28	-27.71	HORIZONTAL Average
3	19721.230	24.21	38.00	17.22	35.60	43.83	71.28	-27.45	HORIZONTAL Average
4	20936.280	26.61	37.90	17.97	35.45	47.03	71.28	-24.25	HORIZONTAL Average
5	22594.280	25.31	39.14	19.01	35.51	47.95	71.28	-23.33	HORIZONTAL Average
6	23696.550	25.07	39.60	20.12	36.03	48.76	71.28	-22.52	HORIZONTAL Average



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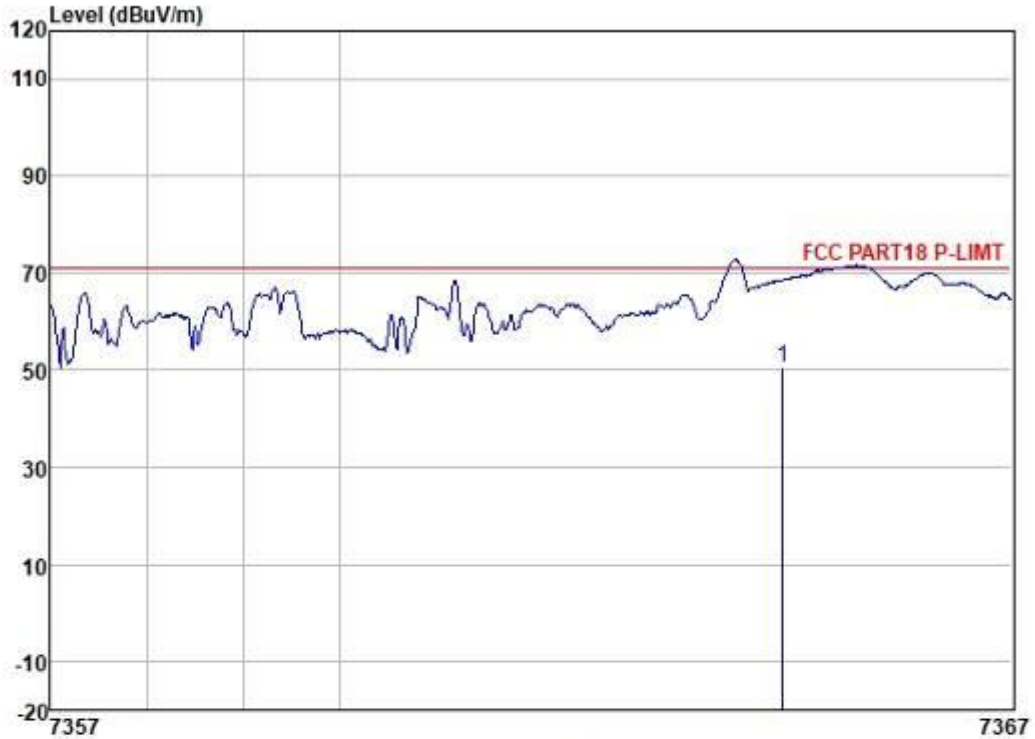


race: (Discrete)									
Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4922.980	55.05	30.99	5.58	36.95	54.67	71.28	-16.61	HORIZONTAL Average



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Mode:a; Polarization:Horizontal



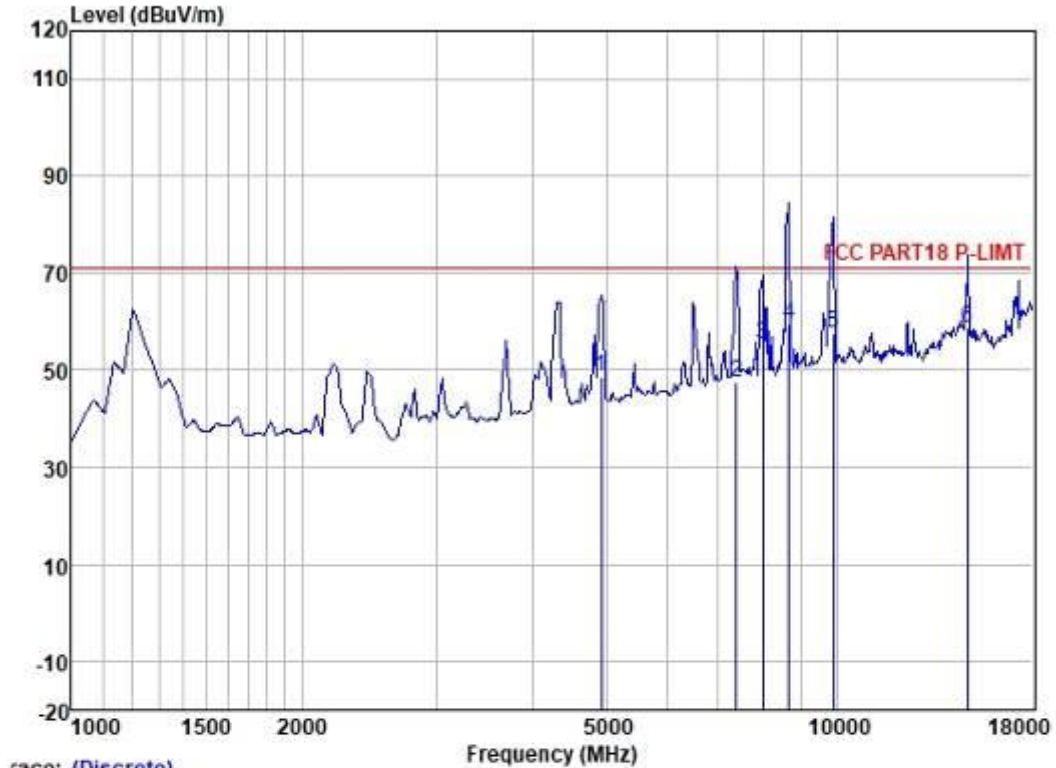
race: (Discrete)										
Frequency (MHz)										
ReadAntenna	Cable	Preamp	Limit	Over						
Level	Loss	Factor	Line	Limit	Pol/Phase	Remark				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Over	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	7364.615	45.64	35.82	6.17	36.92	50.71	71.28	-20.57	HORIZONTAL	Average



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Mode:a; Polarization:Vertical

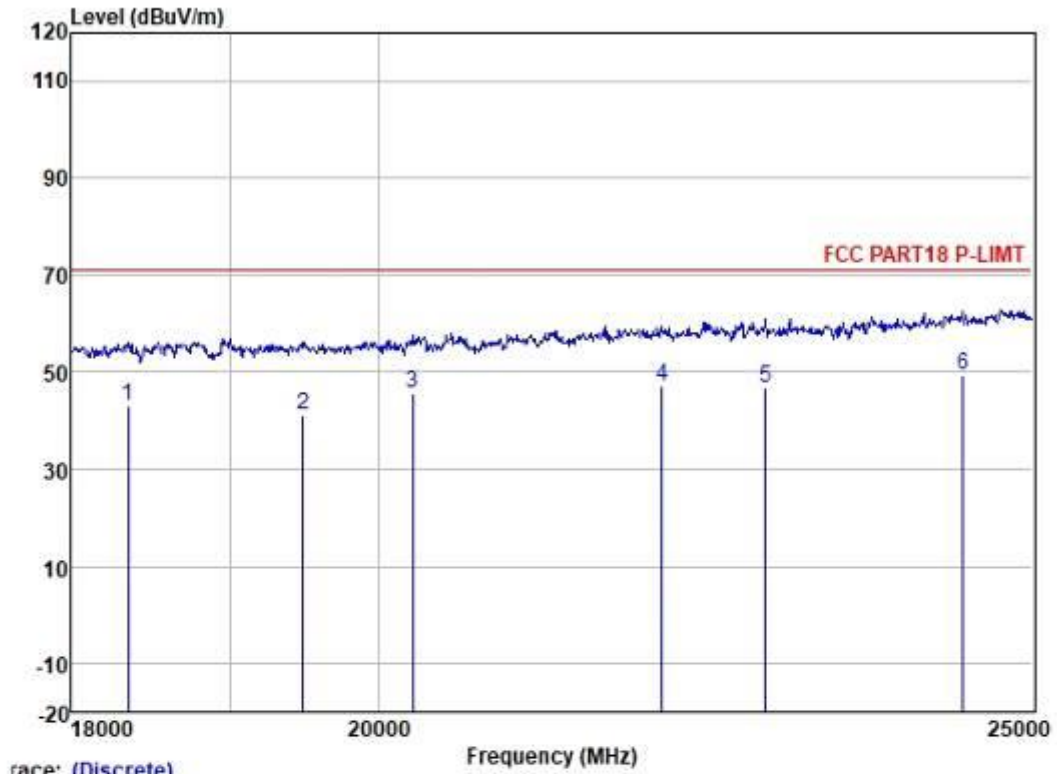


Trace: (Discrete)										
ReadAntenna	Cable	Preamp	Limit	Over						
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	4928.725	48.94	31.01	5.60	36.95	48.60	71.28	-22.68	VERTICAL	Average
2	7393.950	42.43	35.85	6.19	36.92	47.55	71.28	-23.73	VERTICAL	Average
3	7989.893	49.67	36.50	6.15	36.90	55.42	71.28	-15.86	VERTICAL	Average
4	8663.404	53.20	36.22	6.97	36.96	59.43	71.28	-11.85	VERTICAL	Average
5	9895.349	49.76	37.89	6.97	37.09	57.53	71.28	-13.75	VERTICAL	Average
6	14830.960	45.02	40.78	8.53	35.62	58.71	71.28	-12.57	VERTICAL	Average



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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 18352.270	24.34	37.93	16.61	35.60	43.28	71.28	-28.00	VERTICAL	Average
2 19482.980	21.80	38.00	17.09	35.60	41.29	71.28	-29.99	VERTICAL	Average
3 20226.440	25.75	37.98	17.41	35.57	45.57	71.28	-25.71	VERTICAL	Average
4 22029.930	25.79	38.24	18.61	35.30	47.34	71.28	-23.94	VERTICAL	Average
5 22818.040	23.89	39.44	19.13	35.61	46.85	71.28	-24.43	VERTICAL	Average
6 24415.630	25.36	39.48	20.69	36.12	49.41	71.28	-21.87	VERTICAL	Average

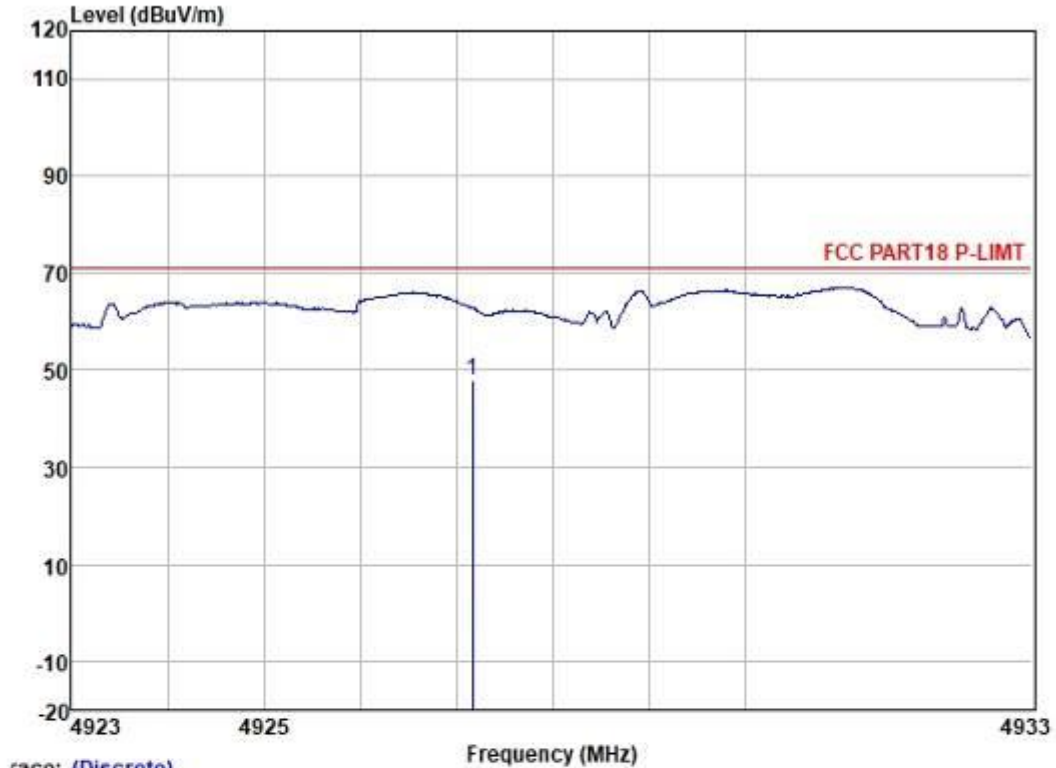


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Mode:a; Polarization:Vertical



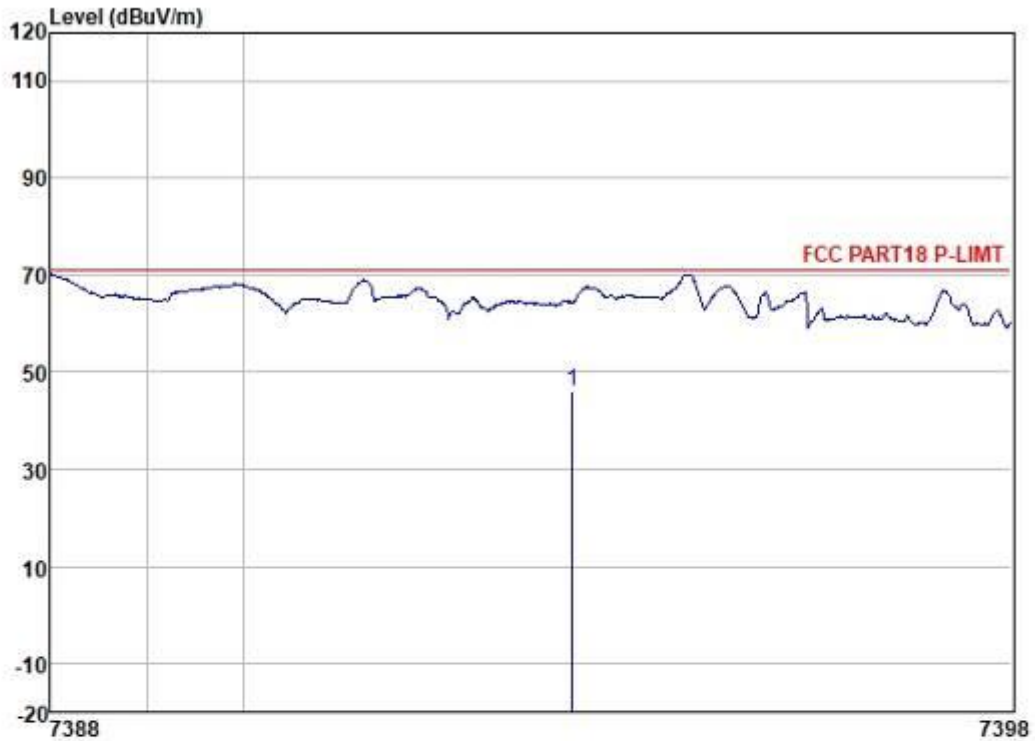
Trace: (Discrete)

Trace	Freq	ReadAntenna Level	Cable Loss	Preamp Factor	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	4927.168	48.26	31.01	5.60	36.95	47.92	71.28	-23.36 VERTICAL Average



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Mode:a; Polarization:Vertical



Trace: (Discrete)		Frequency (MHz)							
Freq	ReadAntenna	Cable	Preamp	Limit	Over				
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7393.430	40.92	35.85	6.19	36.92	46.04	71.28	-25.24	VERTICAL Average



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6.5 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
(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 =1074.3 W according to clause 6.2.2

Limit=20lg(25*SQRT(power/500))+20lg(300/10)=60.82dBuV/m @ 10m distance.



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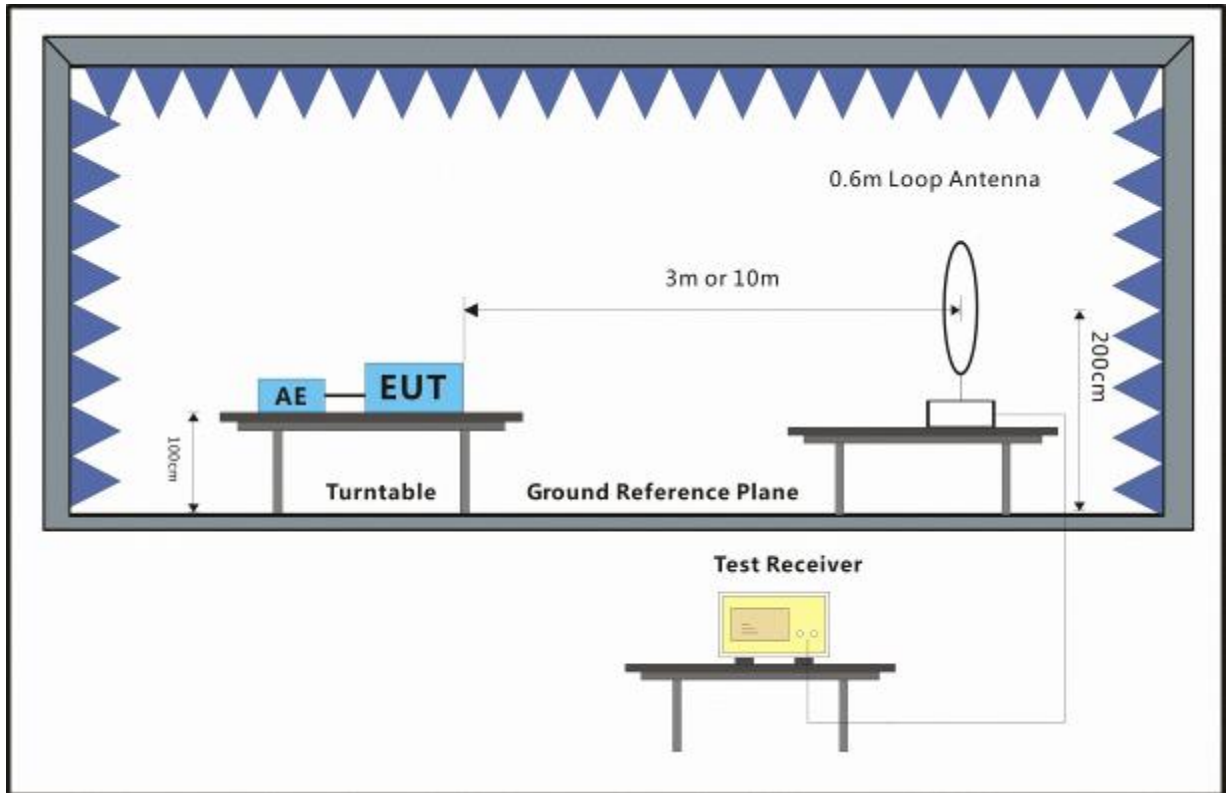
6.5.1 E.U.T. Operation

Operating Environment:

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

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

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.

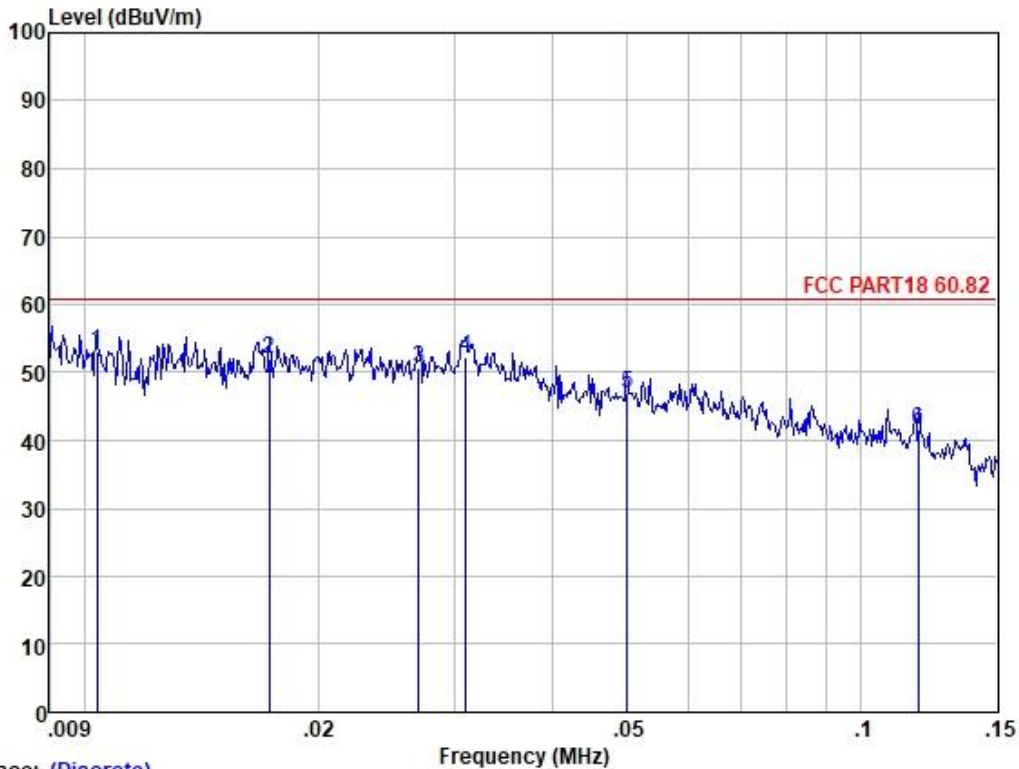
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:a; Polarization:Horizontal



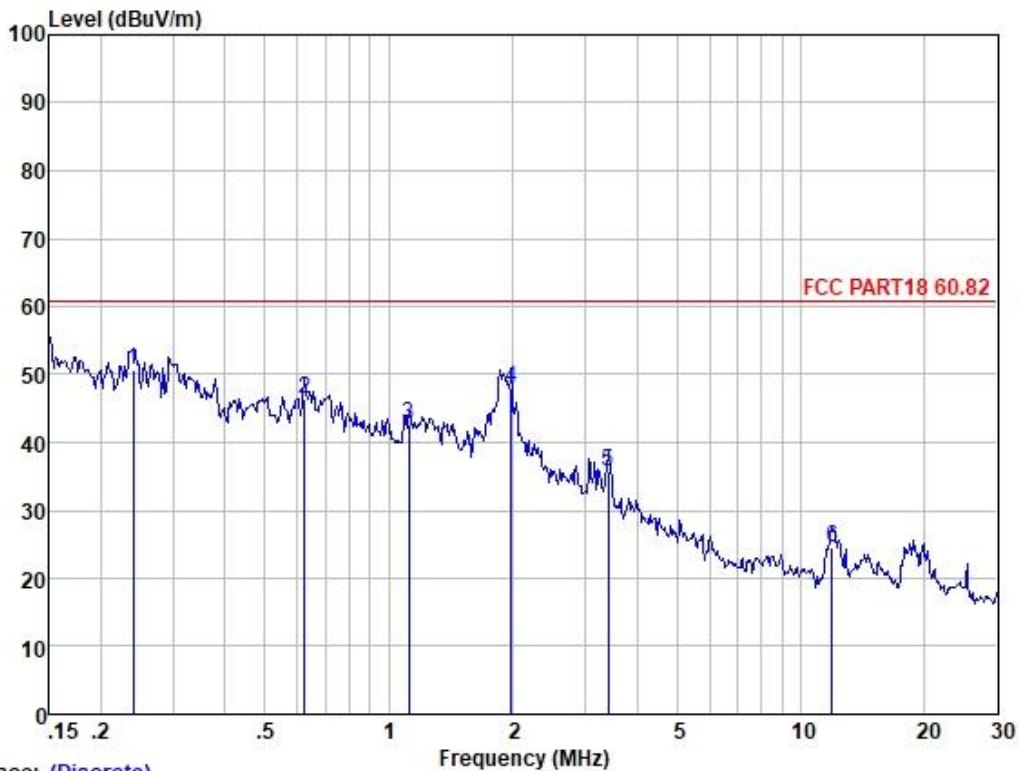
Trace: (Discrete)

	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	61.15	21.47	0.00	29.50	53.12	60.82	-7.70	HORIZONTAL Average
2	0.017	64.72	16.90	0.00	29.49	52.13	60.82	-8.69	HORIZONTAL Average
3	0.027	64.76	15.39	0.00	29.47	50.68	60.82	-10.14	HORIZONTAL Average
4	0.031	67.24	14.53	0.00	29.46	52.31	60.82	-8.51	HORIZONTAL Average
5	0.050	63.73	12.50	0.00	29.43	46.80	60.82	-14.02	HORIZONTAL Average
6	0.118	58.76	12.40	0.00	29.43	41.73	60.82	-19.09	HORIZONTAL Average



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Mode:a; Polarization:Horizontal



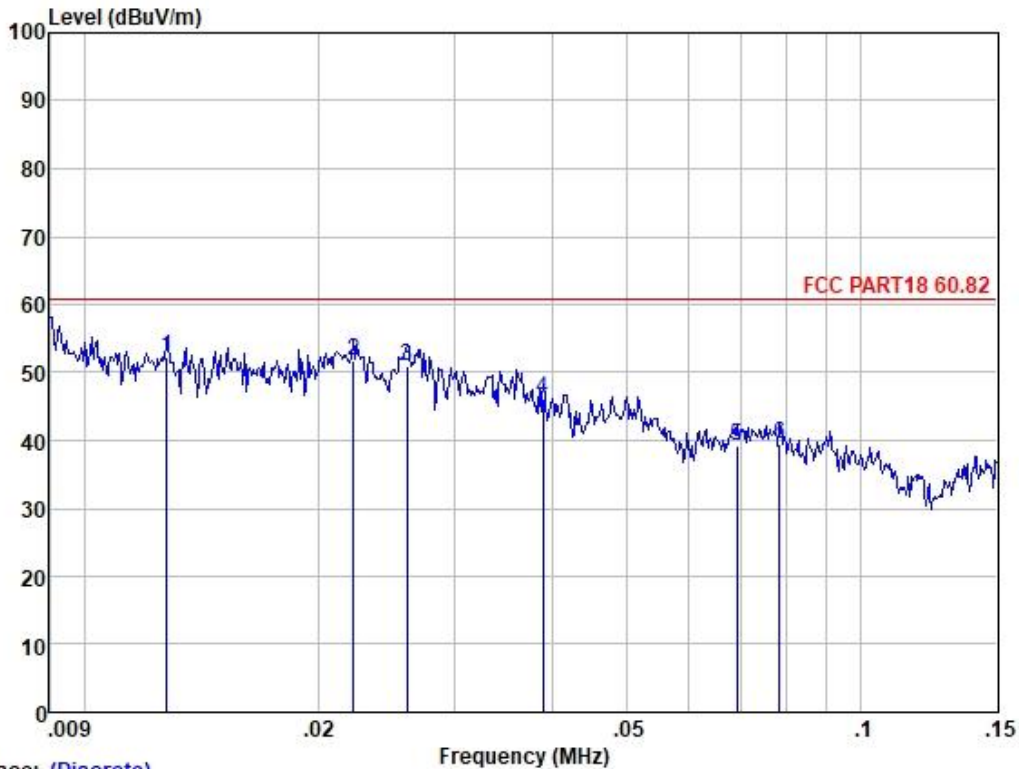
Trace: (Discrete)

	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	0.239	67.74	12.31	0.08	29.43	50.70	60.82	-10.12	HORIZONTAL Average
2	0.624	63.50	12.16	0.10	29.40	46.36	60.82	-14.46	HORIZONTAL Average
3	1.117	59.54	12.33	0.10	29.38	42.59	60.82	-18.23	HORIZONTAL Average
4	1.980	64.55	12.60	0.10	29.36	47.89	60.82	-12.93	HORIZONTAL Average
5	3.399	52.93	11.88	0.20	29.34	35.67	60.82	-25.15	HORIZONTAL Average
6	11.933	42.76	10.63	0.40	29.28	24.51	60.82	-36.31	HORIZONTAL Average



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Mode:a; Polarization:Vertical



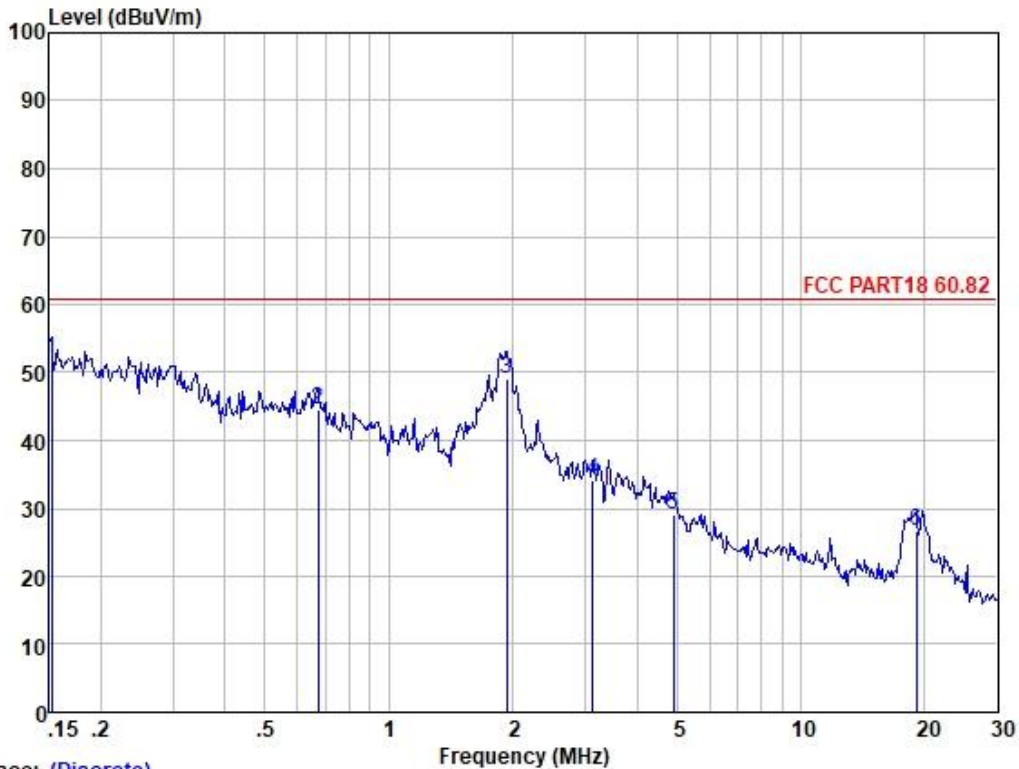
Trace: (Discrete)

	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	0.013	60.04	20.25	0.00	28.12	52.17	60.82	-8.65	VERTICAL Average
2	0.022	64.00	15.98	0.00	28.35	51.63	60.82	-9.19	VERTICAL Average
3	0.026	63.89	15.52	0.00	28.49	50.92	60.82	-9.90	VERTICAL Average
4	0.039	62.18	13.08	0.00	29.12	46.14	60.82	-14.68	VERTICAL Average
5	0.069	56.13	12.41	0.00	29.37	39.17	60.82	-21.65	VERTICAL Average
6	0.079	56.38	12.40	0.00	29.41	39.37	60.82	-21.45	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	0.152	69.11	12.40	0.00	29.44	52.07	60.82	-8.75	VERTICAL Average
2	0.672	61.60	12.18	0.10	29.39	44.49	60.82	-16.33	VERTICAL Average
3	1.928	65.84	12.59	0.10	29.36	49.17	60.82	-11.65	VERTICAL Average
4	3.123	51.27	11.97	0.20	29.35	34.09	60.82	-26.73	VERTICAL Average
5	4.900	46.87	11.23	0.20	29.33	28.97	60.82	-31.85	VERTICAL Average
6	19.021	45.07	10.32	0.50	29.24	26.65	60.82	-34.17	VERTICAL Average

--End of Report--



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