TEST REPORT

Application No.:	GZEM2506003480HS
Applicant:	Guangdong Galanz Enterprises Co., Ltd.
Address of Applicant:	No. 25 South Ronggui Avenue, Ronggui Street, Shunde District, Foshan City, Guangdong Province, China
Manufacturer:	Guangdong Galanz Appliances Manufacturing Co., Ltd.
Address of Manufacturer:	No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
Factory:	Guangdong Galanz Appliances Manufacturing Co., Ltd.
Address of Factory:	No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
Product Name:	Microwave oven
Model No.:	Please refer to page 2.
Trade Mark:	Commercial Chef, Galanz
Standard(s) :	47 CFR Part 18
Date of Receipt:	2025-06-03
Date of Test:	2025-06-06 to 2025-06-12
Date of Issue:	2025-09-30
Test Result:	**Pass***

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

Model No.:

RED500JAH-SACH0A, RED500JAH-SAHH1A, RED500JAH-SAHH2A, RED500JAH-SAHH3A, RED500JAH-SA0H0A, RED500JAH-SA0H1A, RED500JAH-SA0H3A, RED500JAH-SA0H2A, RED500JBH-SAHH0A, RED500JBH-SAHH1A, RED500JBH-SAHH2A, RED500JBH-SAHH3A, RED500JBH-SA0H0A, RED500JBH-SA0H1A, RED500JBH-SA0H2A, RED500JBH-SA0H3A, RED500JCH-SAHH0A, RED500JCH-SAHH1A, RED500JCH-SA0H0A, RED500JCH-SA0H1A, RED(X)0(Y)H-(Z), CHMRC17GS, D100D50ASLRIII-JT, RED500JTH-SAGH0A, D100D50ASLRIII-JB, RED500JBH-SAGH0A

Variable (X): for sale area, including a combination of numbers, may be 48,50 or 56; Variable (Y): It represents the differences of the appearance, including combination of letters and/or numbers; Variable (Z): may compose by one to six characters from A to Z and/or numbers from 0 to 9.

D100D50(X)RIIIH-(Y), Variable (X) may be L, P, SL, SP, AL, AP, ASL, ASP, EL, EP, ESL, ESP; Variable (Y) may compose by one to six characters from A to Z and/or numbers from 0 to 9. ♣

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

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Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZEM180400212502	2018-05-03	Original
02	GZEM180400212504	2019-09-03	Copy Report: Added new alternative Magnetron and High voltage capacitor
03	GZEM180400212506	2024-10-15	Amendment report: Updated the address of applicant, manufacturer's information and factory's information; Added new model and trademark.
04	GZEM180400212508	2025-09-30	Amendment report: Updated the factory's information; Added new models.

Authorized for issue by				
		Damon Guan **Damon Guan/Project Engineer**		
Approved By		Vico Cui **Vico Cui/Reviewer**		

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC/OST MP-5:1986	18.307	Pass
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (30MHz-1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (above 1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Output Power Measurement		FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement		FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test		FCC OST/MP-5:1986	1 mW/cm^2	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark for original report GZEM180400212502

Declaration of EUT Family Grouping:

Model No.: RED500JAH-SACH0A, RED500JAH-SAHH1A, RED500JAH-SAHH2A, RED500JAH-SAHH3A, RED500JAH-SA0H0A, RED500JAH-SA0H1A, RED500JAH-SA0H3A, RED500JAH-SA0H2A, RED500JBH-SAHH0A, RED500JBH-SAHH1A, RED500JBH-SAHH2A, RED500JBH-SAHH3A, RED500JBH-SA0H0A, RED500JBH-SA0H1A, RED500JBH-SA0H2A, RED500JBH-SA0H3A, RED500JCH-SAHH0A, RED500JCH-SAHH1A, RED500JCH-SA0H0A, RED500JCH-SA0H1A, RED(X)0(Y)H-(Z), Variable (X): for sale area, including a combination of numbers, may 48,50 or 56, Variable (Y):It represents the differences of the appearance, including combination of letters and/or numbers, Variable (Z): may compose by one to six characters from A to Z and/or numbers from 0 to 9, D100D50(X)RIIIH-(Y), Variable (X) may be L,P,SL,SP ,AL,AP,ASL,ASP ,EL,EP, ESL,ESP, Variable (Y) may compose by one to six characters from A to Z and/or numbers from 0 to 9

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

Therefore only one model RED500JAH-SACH0A was tested in original report GZEM180400212502.

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¤ Remark for copy report GZEM180400212504

This report GZEM180400212504 was a supplement report based on and only valid with original report GZEM180400212502, adding new alternative Magnetron and High voltage capacitor as below:

Components	Original report		This new report	
	Model name	Manufacture	Model name	Manufacture
Magnetron	M24FC-610A	Toshiba Co., Ltd.	M24FC-610A	Guangdong Galanz Enterprises Co., Ltd.
High voltage capacitor	CH85 (1.00μF, 2100V)	Ningbo Bicai Industry Co., Ltd.	CH85 (0.90μF, 2100V)	Ningbo Bicai Industry Co., Ltd.

Considering to above changing, full test items were performed to new received model RED500JAH-SACH0A and recorded the new data in this report GZEM180400212504.

Data for model RED500JAH-SACH0A with original Magnetron and High voltage capacitor please refer to report GZEM180400212502 for details.

Remark for the report GZEM180400212506:

This report GZEM180400212506 is based on original report GZEM180400212504, with the following changes:

1. Updated the address of applicant, manufacturer's information and factory's information.
2. Added trademark to Commercial Chef, Galanz.
3. Added new model CHMRC17GS.

According to the declaration from the applicant, model CHMRC17GS added in this report GZEM180400212506 and model RED500JAH-SACH0A in original report GZEM180400212504 were identical in electrical circuit design, layout, components used and internal wiring, only with difference on model name and trademark.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by updated the address of applicant, manufacturer's information and factory's information; Added new model and trademark without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

All test results in report GZEM180400212504 were kept in this report GZEM180400212506.

Other tests please refer to original report GZEM180400212502 for details.

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Remark for report GZEM180400212508:

This report GZEM180400212508 is based on original report GZEM180400212506, with the following changes:

1. Updated the factory's information.

2. Added new models D100D50ASLRIII-JT, RED500JTH-SAGH0A, D100D50ASLRIII-JB and RED500JBH-SAGH0A

According to the declaration from the applicant, models added in this report GZEM180400212508 and models in original report GZEM180400212506 were different in control system, outer appearance but the same magnetron.

Models D100D50ASLRIII-JT and RED500JTH-SAGH0A are different on the model name.

Models D100D50ASLRIII-JB and RED500JBH-SAGH0A are different on the model name.

Model D100D50ASLRIII-JT and D100D50ASLRIII-JB are identical except outer appearance and that there is a display bord in model D100D50ASLRIII-JT but none in model D100D50ASLRIII-JB.

Considering to the difference above, full tests were performed to model D100D50ASLRIII-JT and D100D50ASLRIII-JB, recorded the new test results in this report GZEM180400212508.

Other tests of original model please refer to original report GZEM180400212502, GZEM180400212506 for details.

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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V, 60Hz

Test Voltage: AC 120V 60Hz

Cable(s): About 1.2m x 3 wires unscreened AC mains cable.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

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

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.22dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)	± 3.12dB
Radiated Emissions (30MHz-1GHz)	5.14dB (30MHz-1GHz):3m;
Radiated Emissions (above 1GHz)	4.88dB (1GHz-6GHz); 5.06dB (6GHz-25GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI}(ETSI Uncertainty).

Emission decision rule:

– Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.

– Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-24	2025-08-23
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2024-09-02	2025-09-01
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2024-12-04	2025-12-03
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2024-10-14	2025-10-13

Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-08	2026-04-07
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-12-03	2025-12-02
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2024-12-03	2025-12-02
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2238	2025-03-24	2027-03-23
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125-8000	EMC2239	2024-12-04	2026-12-03
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A

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Radiated Emissions (above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2024-10-14	2025-10-13
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2024-10-14	2025-10-13
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Output Power Measurement					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Digital thermometer	FLUKE	51_2	EMC2200	2025-07-10	2026-07-09
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2024-12-04	2025-12-03
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2024-12-04	2025-12-03
NET.Control	EMTEST	Ver 3.2.3	GZE100-80	N/A	N/A

Operating Frequency Measurement					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2024-09-02	2025-09-01
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-20	2026-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiation Hazard Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Electric Field Probe(100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2025-05-14	2026-05-13

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General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02

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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC/OST MP-5:1986
Limit:
Frequency Range: 150kHz to 30MHz
0.15 to 0.5 MHz: 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5 to 5 MHz: 56dB(μV) quasi-peak, 46dB(μV) average
5 to 30 MHz: 60dB(μV) quasi-peak, 50dB(μV) average
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

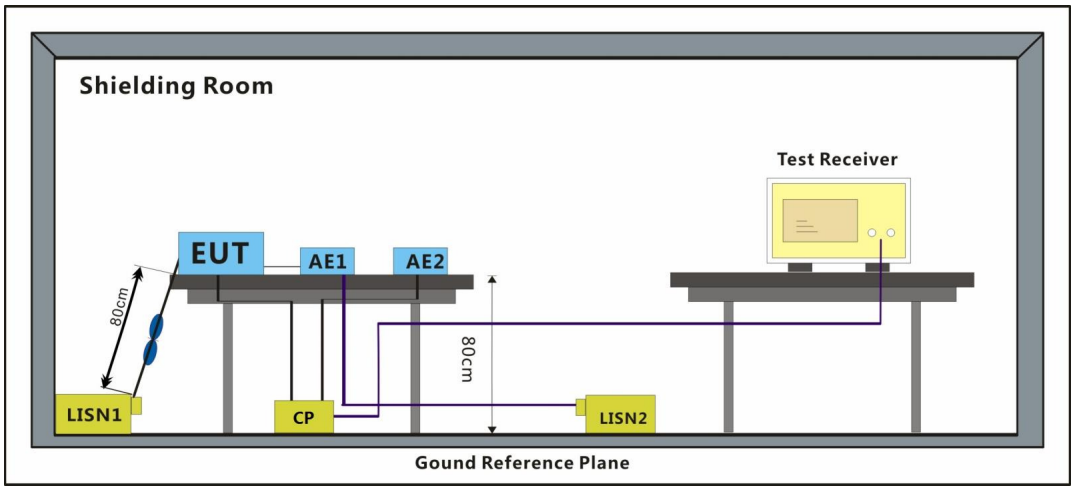
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24.9 °C Humidity: 53.3 % RH Atmospheric Pressure: 1004 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

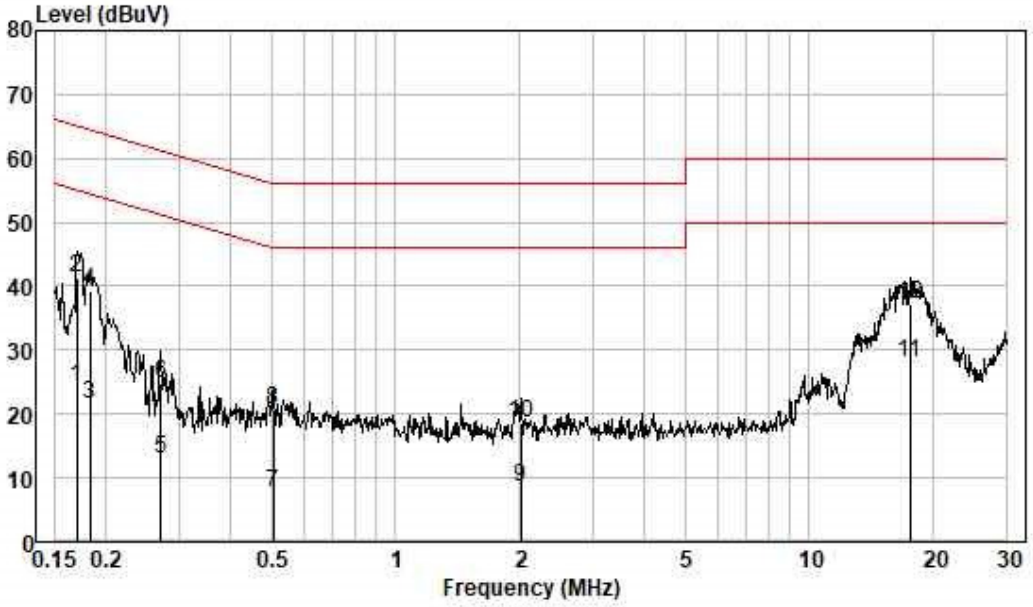
Frequency range: 150KHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor

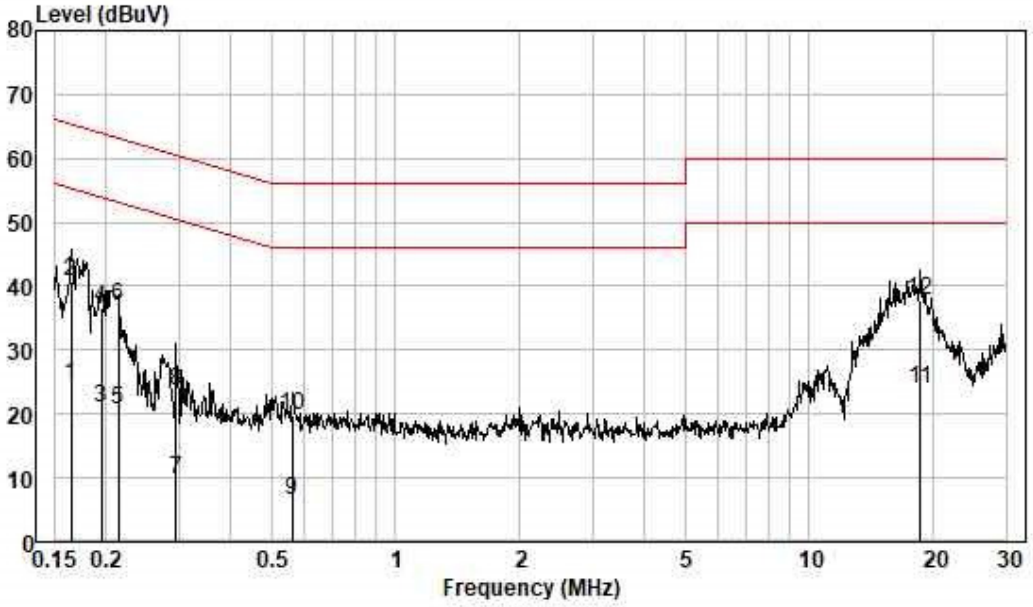
Test Mode: 00; Line: Live line



Pol :LINE
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.169	14.75	0.04	9.54	24.33	54.99	-30.66	Average
2	0.169	31.88	0.04	9.54	41.46	64.99	-23.53	QP
3	0.182	11.91	0.04	9.54	21.49	54.37	-32.88	Average
4	0.182	29.59	0.04	9.54	39.17	64.37	-25.20	QP
5	0.270	3.27	0.04	9.58	12.89	51.12	-38.23	Average
6	0.270	15.12	0.04	9.58	24.74	61.12	-36.38	QP
7	0.507	-2.07	0.05	9.59	7.57	46.00	-38.43	Average
8	0.507	10.92	0.05	9.59	20.56	56.00	-35.44	QP
9	2.012	-1.15	0.13	9.61	8.59	46.00	-37.41	Average
10	2.012	8.86	0.13	9.61	18.60	56.00	-37.40	QP
11	17.475	17.92	0.36	9.83	28.11	50.00	-21.89	Average
12	17.475	27.08	0.36	9.83	37.27	60.00	-22.73	QP

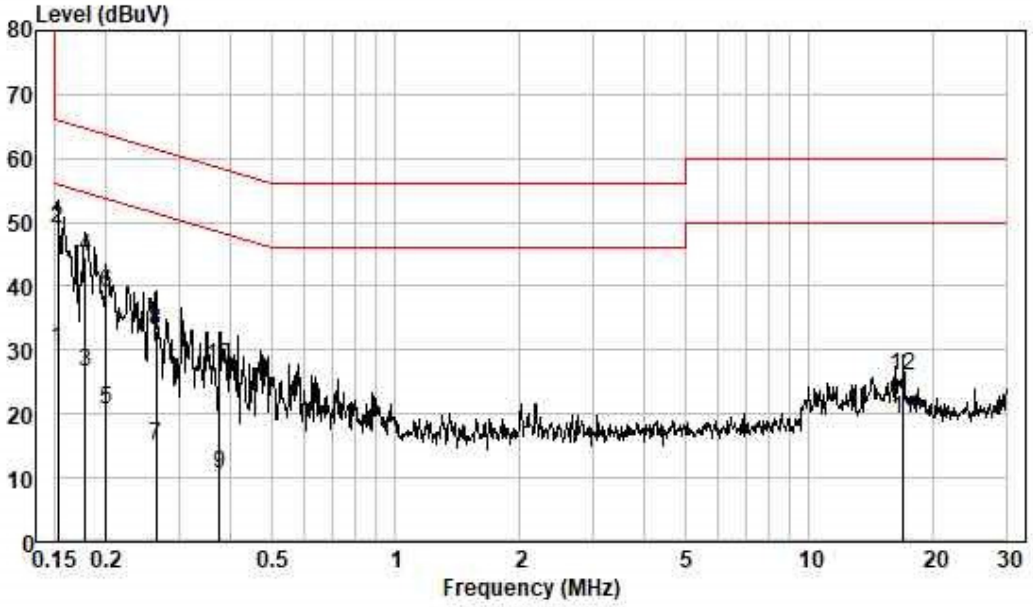
Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.164	14.86	0.04	9.53	24.43	55.25	-30.82	Average
2	0.164	31.07	0.04	9.53	40.64	65.25	-24.61	QP
3	0.194	11.49	0.04	9.55	21.08	53.84	-32.76	Average
4	0.194	27.12	0.04	9.55	36.71	63.84	-27.13	QP
5	0.214	11.18	0.04	9.54	20.76	53.05	-32.29	Average
6	0.214	27.23	0.04	9.54	36.81	63.05	-26.24	QP
7	0.294	0.02	0.04	9.54	9.60	50.41	-40.81	Average
8	0.294	14.14	0.04	9.54	23.72	60.41	-36.69	QP
9	0.561	-3.25	0.05	9.57	6.37	46.00	-39.63	Average
10	0.561	10.09	0.05	9.57	19.71	56.00	-36.29	QP
11	18.524	13.69	0.37	9.90	23.96	50.00	-26.04	Average
12	18.524	27.44	0.37	9.90	37.71	60.00	-22.29	QP

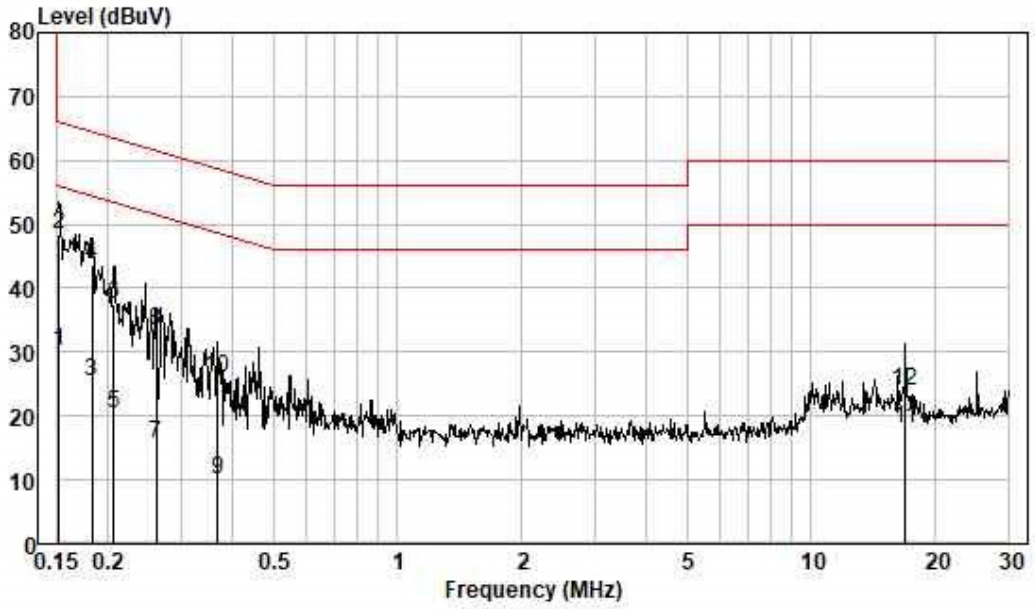
Test Mode: 06; Line: Live line



Pol :LINE
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	20.47	0.04	9.57	30.08	55.87	-25.79	Average
2	0.152	39.42	0.04	9.57	49.03	65.87	-16.84	QP
3	0.178	17.12	0.04	9.54	26.70	54.59	-27.89	Average
4	0.178	34.96	0.04	9.54	44.54	64.59	-20.05	QP
5	0.200	11.01	0.04	9.55	20.60	53.62	-33.02	Average
6	0.200	29.27	0.04	9.55	38.86	63.62	-24.76	QP
7	0.264	5.58	0.04	9.58	15.20	51.29	-36.09	Average
8	0.264	23.44	0.04	9.58	33.06	61.29	-28.23	QP
9	0.375	1.07	0.05	9.56	10.68	48.39	-37.71	Average
10	0.375	17.98	0.05	9.56	27.59	58.39	-30.80	QP
11	16.839	8.92	0.35	9.84	19.11	50.00	-30.89	Average
12	16.839	15.77	0.35	9.84	25.96	60.00	-34.04	QP

Test Mode: 06; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	20.64	0.04	9.51	30.19	55.91	-25.72	Average
2	0.152	38.99	0.04	9.51	48.54	65.91	-17.37	QP
3	0.182	15.88	0.04	9.54	25.46	54.37	-28.91	Average
4	0.182	34.24	0.04	9.54	43.82	64.37	-20.55	QP
5	0.206	10.66	0.04	9.55	20.25	53.36	-33.11	Average
6	0.206	27.97	0.04	9.55	37.56	63.36	-25.80	QP
7	0.262	6.16	0.04	9.53	15.73	51.38	-35.65	Average
8	0.262	23.92	0.04	9.53	33.49	61.38	-27.89	QP
9	0.367	0.45	0.05	9.52	10.02	48.56	-38.54	Average
10	0.367	16.53	0.05	9.52	26.10	58.56	-32.46	QP
11	16.839	7.82	0.35	9.90	18.07	50.00	-31.93	Average
12	16.839	13.79	0.35	9.90	24.04	60.00	-35.96	QP

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

Test Requirement: 47 CFR Part 18
Test Method: FCC/OST MP-5:1986
Limit:
Measurement Distance: 3 m
Frequency Range: 9kHz to 30MHz
Detector: Peak for pre-scan, Average for the final result
(200Hz Resolution Bandwidth for 9kHz to 150kHz;
9kHz Resolution Bandwidth for 150kHz to 30MHz)

Model D100D50ASLRIII-JB

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**930.5**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.66 dBuV/m**@ 3m distance.

Model D100D50ASLRIII-JT

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**923.0**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.62 dBuV/m** @ 3m distance.

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24.1 °C Humidity: 57.2 % RH Atmospheric Pressure: 1004 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

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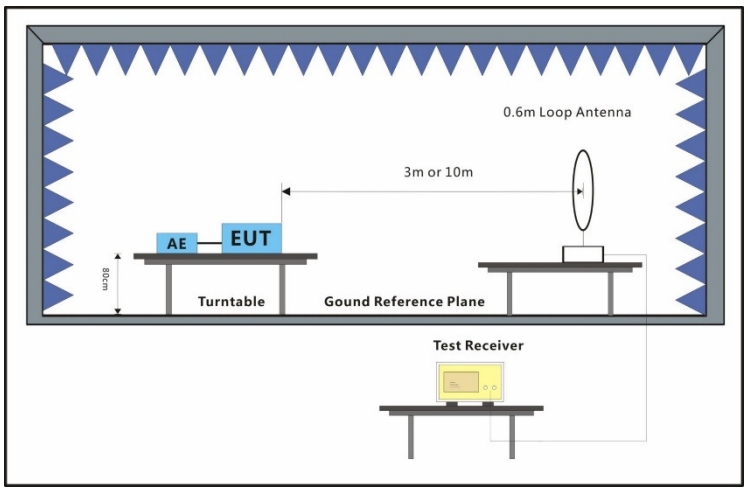
6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

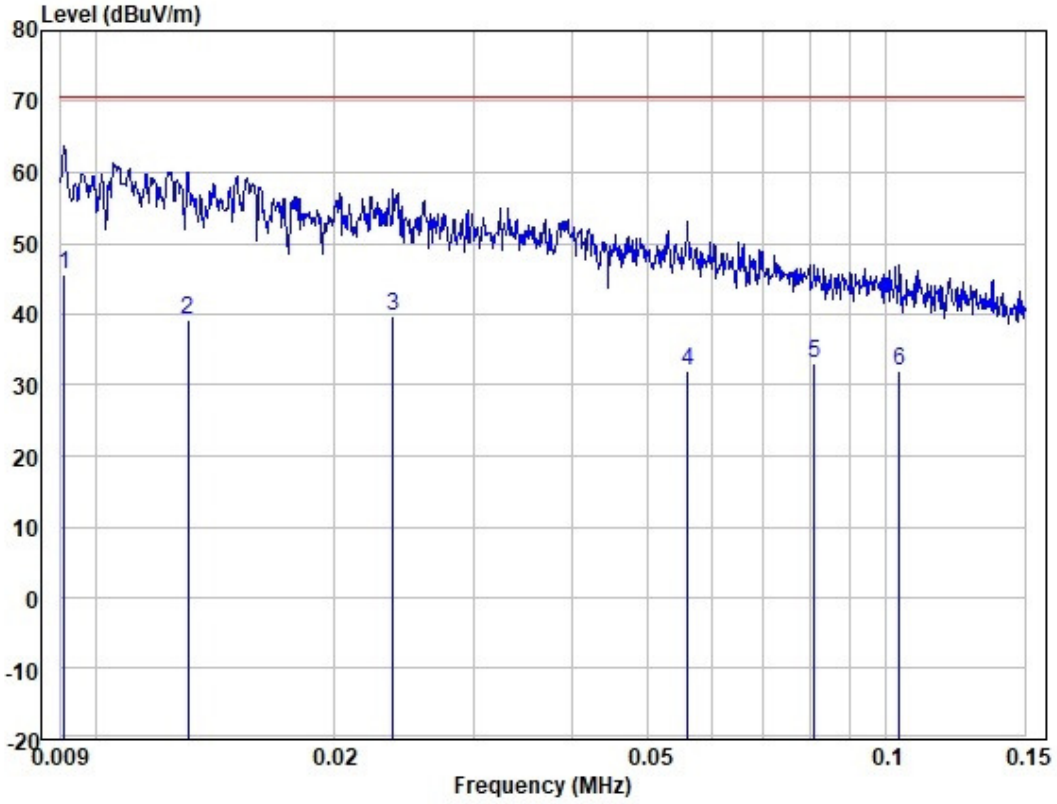
Frequency range: 9KHz-30MHz

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

The red line show in graphic is the limit in standard used in this section.

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

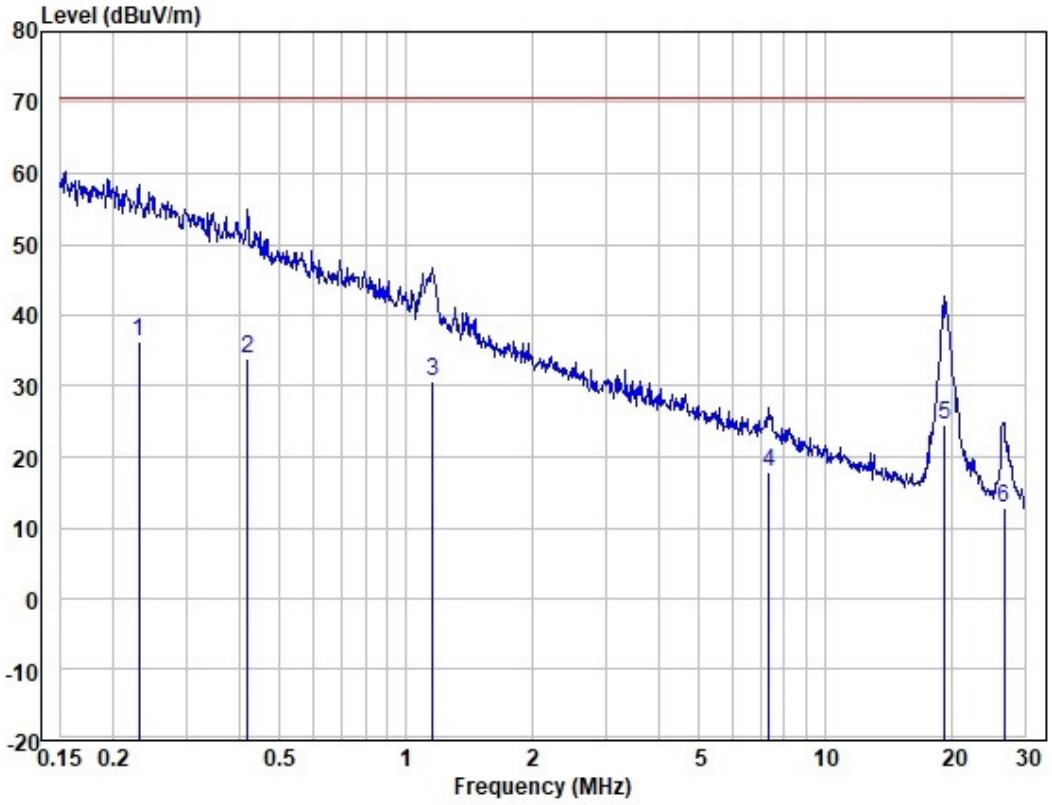
Test Mode: 00; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	56.52	21.84	0.01	32.72	45.65	70.66	-25.01	HORIZONTAL	Average
2	0.013	52.00	19.79	0.01	32.72	39.08	70.66	-31.58	HORIZONTAL	Average
3	0.024	55.89	16.50	0.01	32.72	39.68	70.66	-30.98	HORIZONTAL	Average
4	0.056	49.86	14.86	0.01	32.72	32.01	70.66	-38.65	HORIZONTAL	Average
5	0.081	51.00	14.73	0.01	32.72	33.02	70.66	-37.64	HORIZONTAL	Average
6	0.104	49.89	14.75	0.01	32.72	31.93	70.66	-38.73	HORIZONTAL	Average

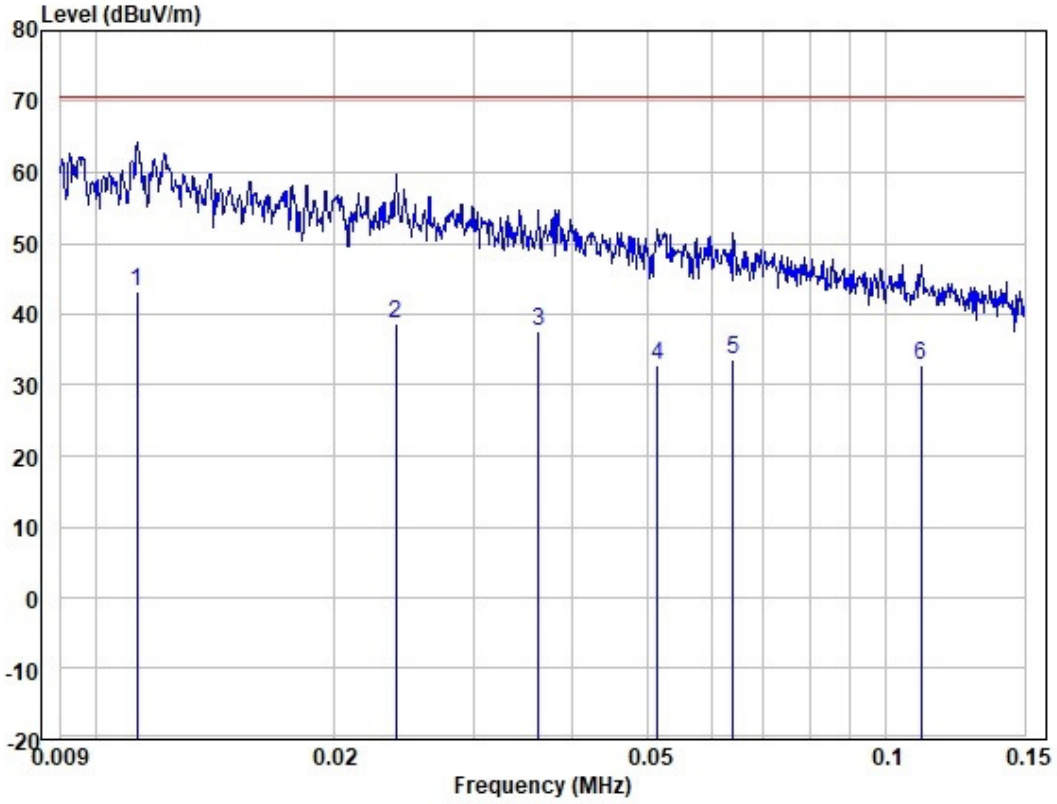
Test Mode: 00; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.230	54.44	14.66	0.01	32.72	36.39	70.66	-34.27	HORIZONTAL	Average
2	0.419	52.12	14.53	0.01	32.72	33.94	70.66	-36.72	HORIZONTAL	Average
3	1.160	49.99	13.40	0.05	32.70	30.74	70.66	-39.92	HORIZONTAL	Average
4	7.368	38.18	12.37	0.13	32.71	17.97	70.66	-52.69	HORIZONTAL	Average
5	19.326	47.55	9.48	0.23	32.72	24.54	70.66	-46.12	HORIZONTAL	Average
6	26.699	38.88	6.46	0.28	32.74	12.88	70.66	-57.78	HORIZONTAL	Average

Test Mode: 00; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.011	54.94	21.02	0.01	32.72	43.25	70.66	-27.41	VERTICAL	Average
2	0.024	54.96	16.46	0.01	32.72	38.71	70.66	-31.95	VERTICAL	Average
3	0.036	55.13	15.31	0.01	32.72	37.73	70.66	-32.93	VERTICAL	Average
4	0.051	50.68	14.93	0.01	32.72	32.90	70.66	-37.76	VERTICAL	Average
5	0.064	51.38	14.82	0.01	32.72	33.49	70.66	-37.17	VERTICAL	Average
6	0.111	50.88	14.74	0.01	32.72	32.91	70.66	-37.75	VERTICAL	Average

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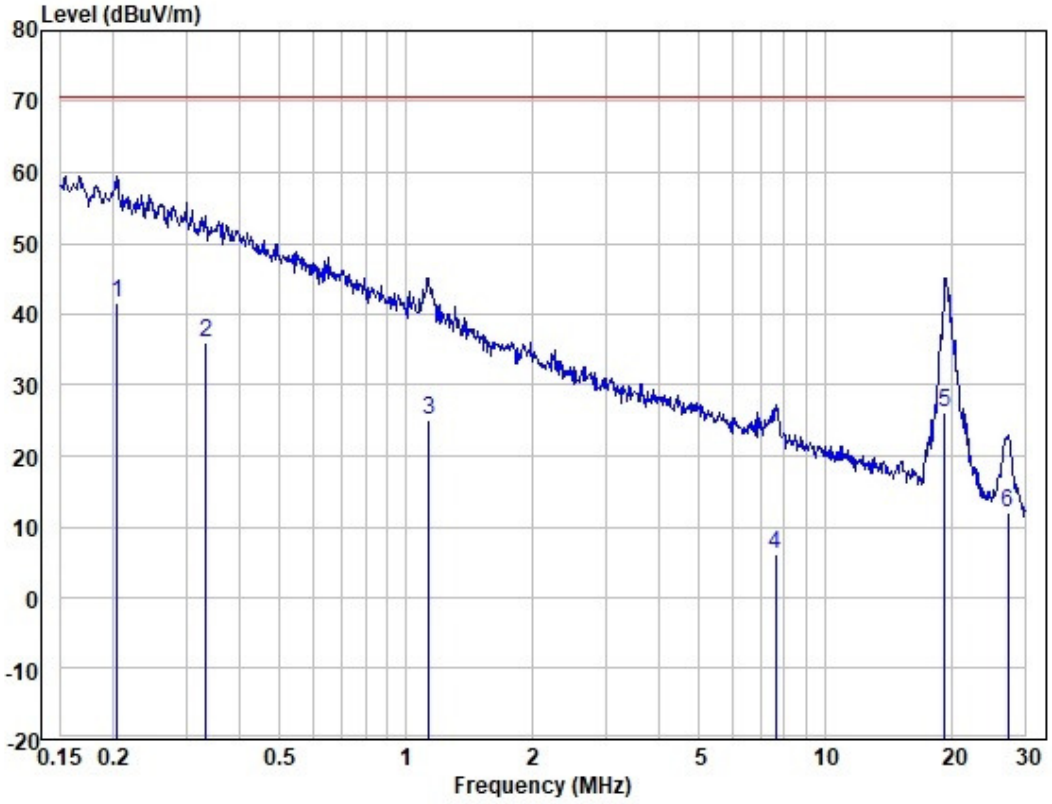
Test Mode: 00; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.205	59.56	14.67	0.01	32.72	41.52	70.66	-29.14	VERTICAL	Average
2	0.334	54.09	14.61	0.01	32.72	35.99	70.66	-34.67	VERTICAL	Average
3	1.135	44.27	13.38	0.05	32.70	25.00	70.66	-45.66	VERTICAL	Average
4	7.606	26.41	12.34	0.14	32.71	6.18	70.66	-64.48	VERTICAL	Average
5	19.326	49.17	9.48	0.23	32.72	26.16	70.66	-44.50	VERTICAL	Average
6	27.271	38.12	6.23	0.28	32.74	11.89	70.66	-58.77	VERTICAL	Average

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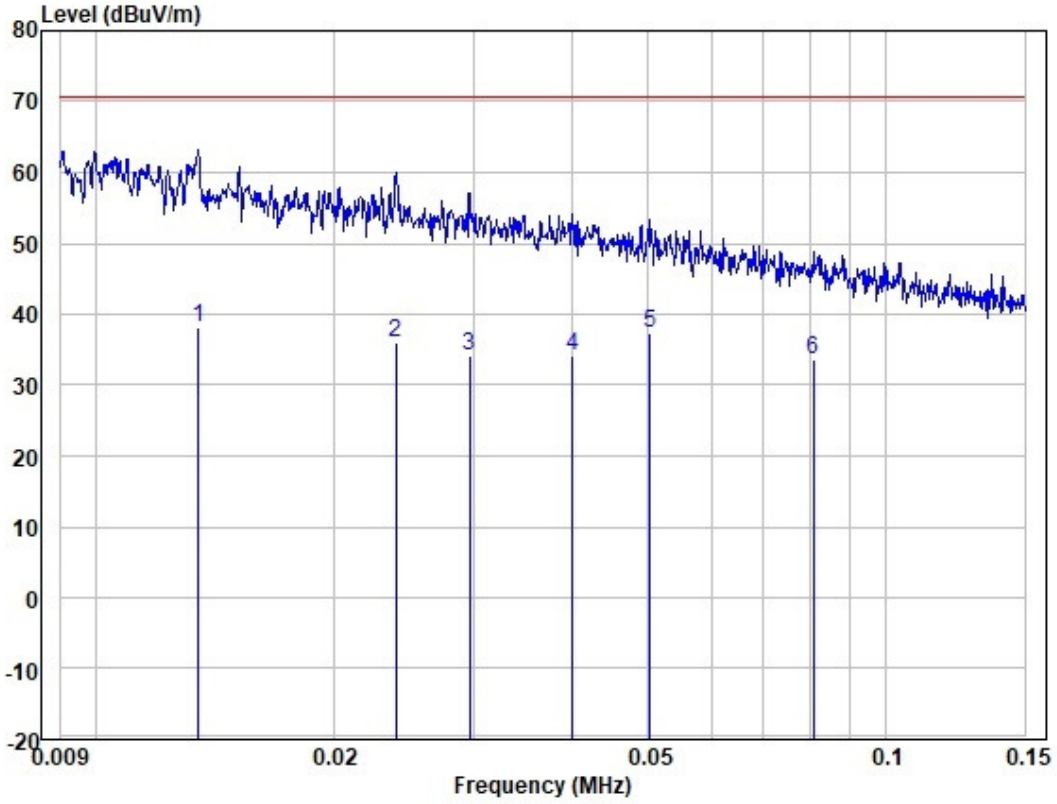
Test Mode: 06; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.013	51.66	19.30	0.01	32.72	38.25	70.62	-32.37	HORIZONTAL	Average
2	0.024	52.23	16.46	0.01	32.72	35.98	70.62	-34.64	HORIZONTAL	Average
3	0.030	51.14	15.74	0.01	32.72	34.17	70.62	-36.45	HORIZONTAL	Average
4	0.040	51.66	15.16	0.01	32.72	34.11	70.62	-36.51	HORIZONTAL	Average
5	0.050	55.05	14.95	0.01	32.72	37.29	70.62	-33.33	HORIZONTAL	Average
6	0.081	51.70	14.73	0.01	32.72	33.72	70.62	-36.90	HORIZONTAL	Average

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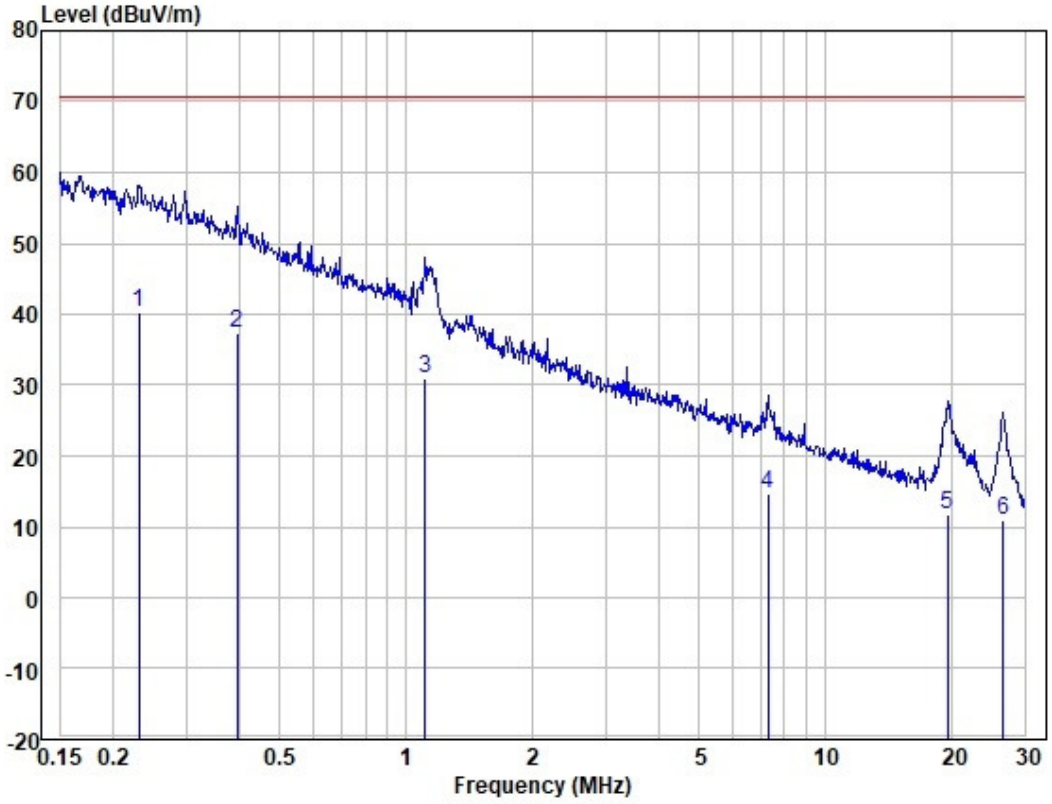
Test Mode: 06; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.230	58.26	14.66	0.01	32.72	40.21	70.62	-30.41	HORIZONTAL	Average
2	0.396	55.42	14.55	0.01	32.72	37.26	70.62	-33.36	HORIZONTAL	Average
3	1.111	50.21	13.37	0.05	32.70	30.93	70.62	-39.69	HORIZONTAL	Average
4	7.329	34.83	12.38	0.13	32.71	14.63	70.62	-55.99	HORIZONTAL	Average
5	19.635	34.70	9.44	0.24	32.72	11.66	70.62	-58.96	HORIZONTAL	Average
6	26.558	36.95	6.56	0.28	32.74	11.05	70.62	-59.57	HORIZONTAL	Average

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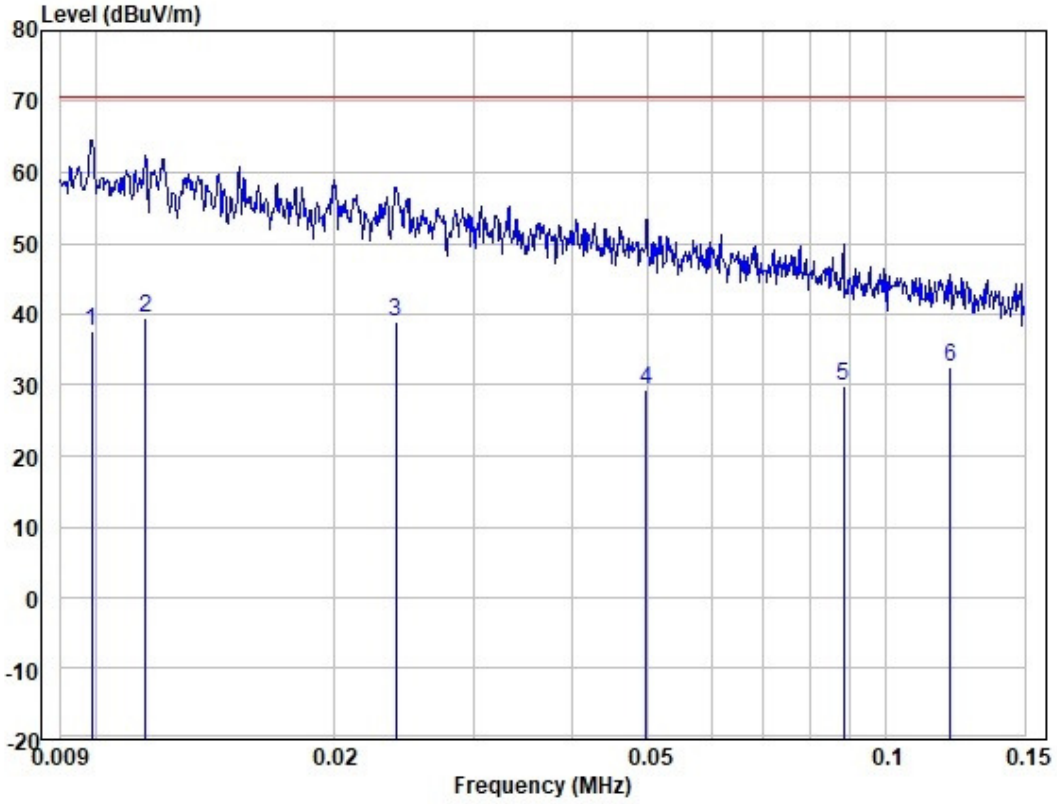
Test Mode: 06; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	48.79	21.58	0.01	32.72	37.66	70.62	-32.96	VERTICAL	Average
2	0.012	51.40	20.84	0.01	32.72	39.53	70.62	-31.09	VERTICAL	Average
3	0.024	55.16	16.46	0.01	32.72	38.91	70.62	-31.71	VERTICAL	Average
4	0.050	47.17	14.95	0.01	32.72	29.41	70.62	-41.21	VERTICAL	Average
5	0.088	48.09	14.44	0.01	32.72	29.82	70.62	-40.80	VERTICAL	Average
6	0.121	50.63	14.74	0.01	32.72	32.66	70.62	-37.96	VERTICAL	Average

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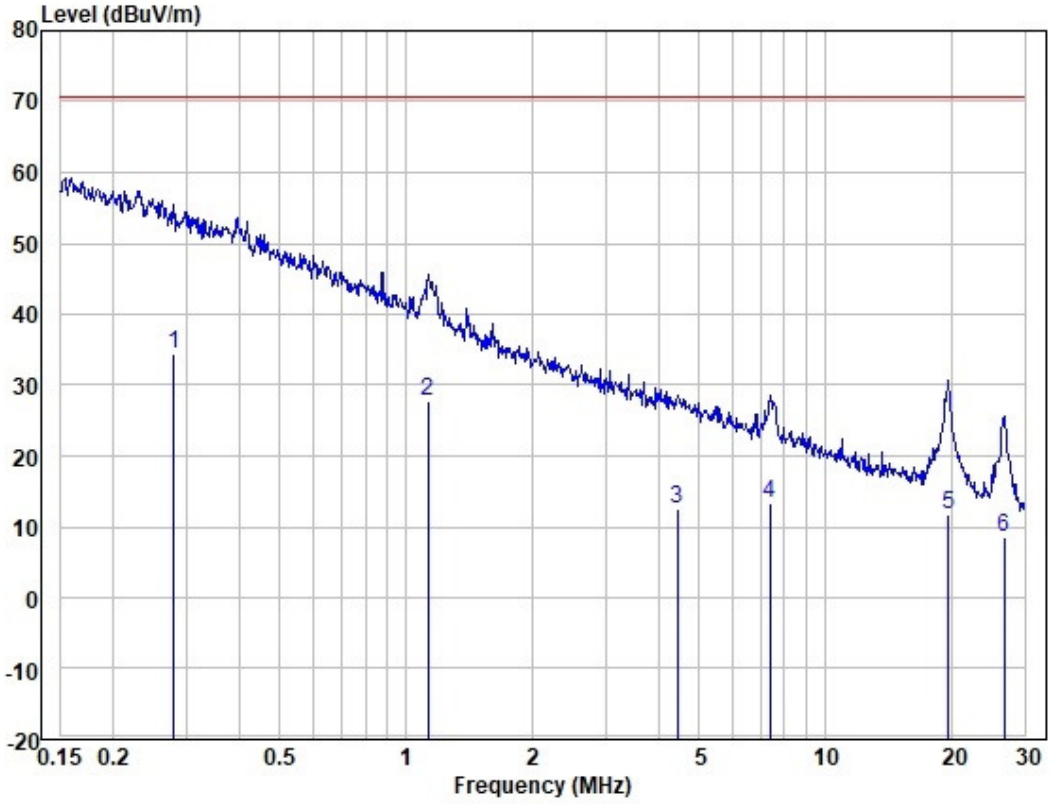
Test Mode: 06; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.280	52.41	14.64	0.01	32.72	34.34	70.62	-36.28	VERTICAL	Average
2	1.129	47.00	13.38	0.05	32.70	27.73	70.62	-42.89	VERTICAL	Average
3	4.454	32.37	12.86	0.08	32.70	12.61	70.62	-58.01	VERTICAL	Average
4	7.407	33.66	12.36	0.13	32.71	13.44	70.62	-57.18	VERTICAL	Average
5	19.740	34.79	9.44	0.24	32.72	11.75	70.62	-58.87	VERTICAL	Average
6	26.699	34.55	6.46	0.28	32.74	8.55	70.62	-62.07	VERTICAL	Average

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6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC/OST MP-5:1986
Limit:
Measurement Distance: 3 m
Frequency Range: 30 MHz to 1 GHz
Detector: Peak for pre-scan, average for the final result
(120 kHz Resolution Bandwidth for 30 MHz to 1 GHz)

Model D100D50ASLRIII-JB

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**930.5**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.66 dBuV/m**@ 3m distance.

Model D100D50ASLRIII-JT

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**923.0**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.62 dBuV/m** @ 3m distance.

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.6 °C Humidity: 54.8 % RH Atmospheric Pressure: 1004 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

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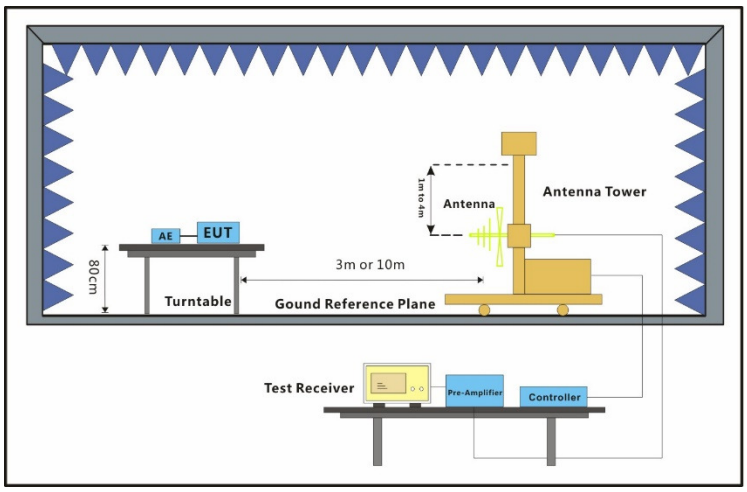
6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

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

The red line show in graphic is the limit in standard used in this section.

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

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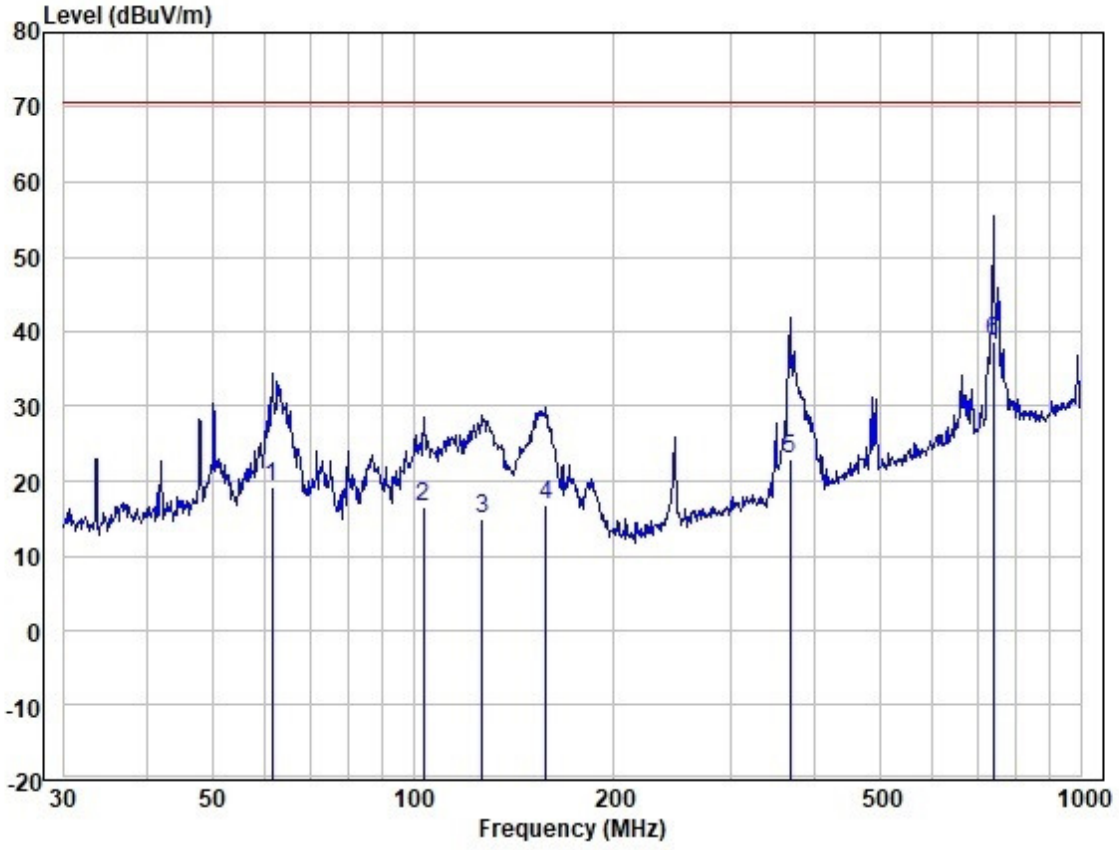
Test Mode: 00; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	61.562	32.97	18.70	0.42	32.77	19.32	70.62	-51.30	HORIZONTAL	Average
2	103.806	33.25	15.31	0.55	32.70	16.41	70.62	-54.21	HORIZONTAL	Average
3	126.772	29.38	17.63	0.61	32.72	14.90	70.62	-55.72	HORIZONTAL	Average
4	158.112	29.77	19.17	0.70	32.77	16.87	70.62	-53.75	HORIZONTAL	Average
5	366.823	33.95	20.66	1.12	32.88	22.85	70.62	-47.77	HORIZONTAL	Average
6	739.661	41.18	27.56	1.58	31.72	38.60	70.62	-32.02	HORIZONTAL	Average

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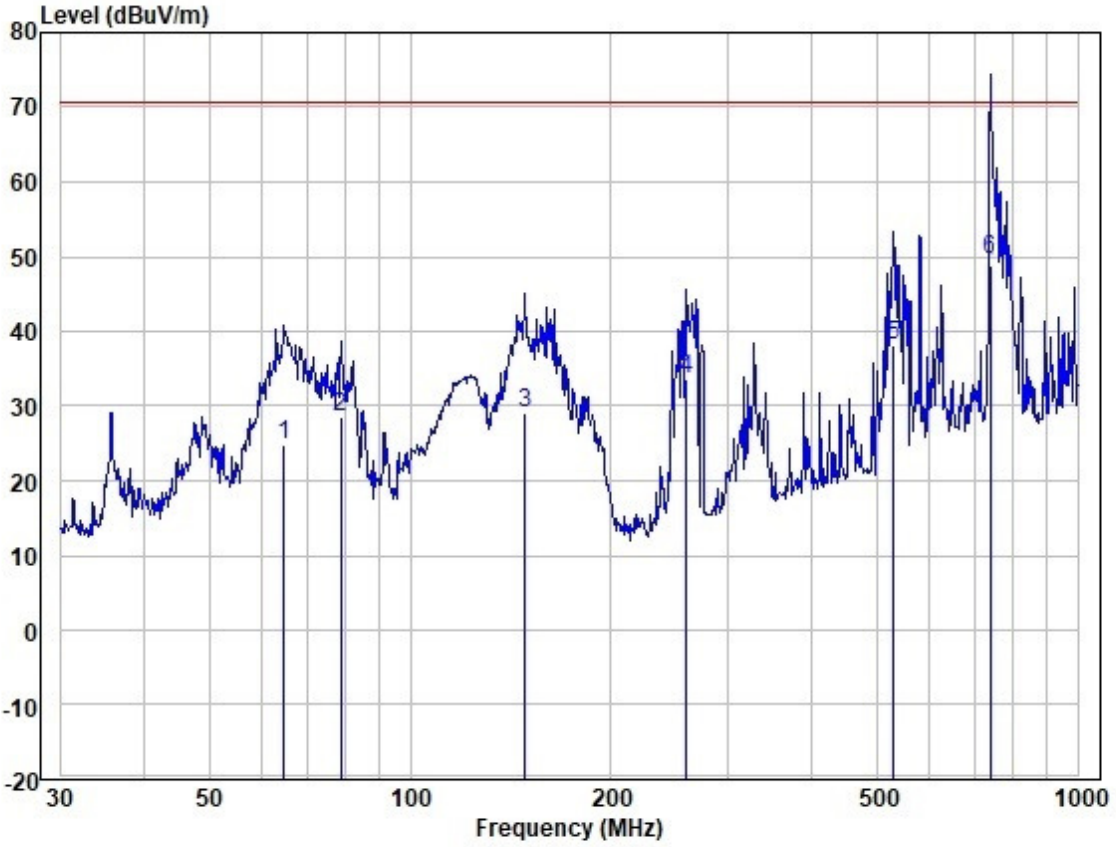
Test Mode: 00; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	64.659	38.85	18.20	0.44	32.77	24.72	70.66	-45.94	VERTICAL	Average
2	78.689	45.51	15.37	0.50	32.73	28.65	70.66	-42.01	VERTICAL	Average
3	148.441	42.00	19.06	0.66	32.75	28.97	70.66	-41.69	VERTICAL	Average
4	259.234	47.60	17.88	0.92	32.85	33.55	70.66	-37.11	VERTICAL	Average
5	530.101	45.57	24.21	1.32	32.89	38.21	70.66	-32.45	VERTICAL	Average
6	739.661	52.49	27.56	1.58	31.72	49.91	70.66	-20.75	VERTICAL	Average

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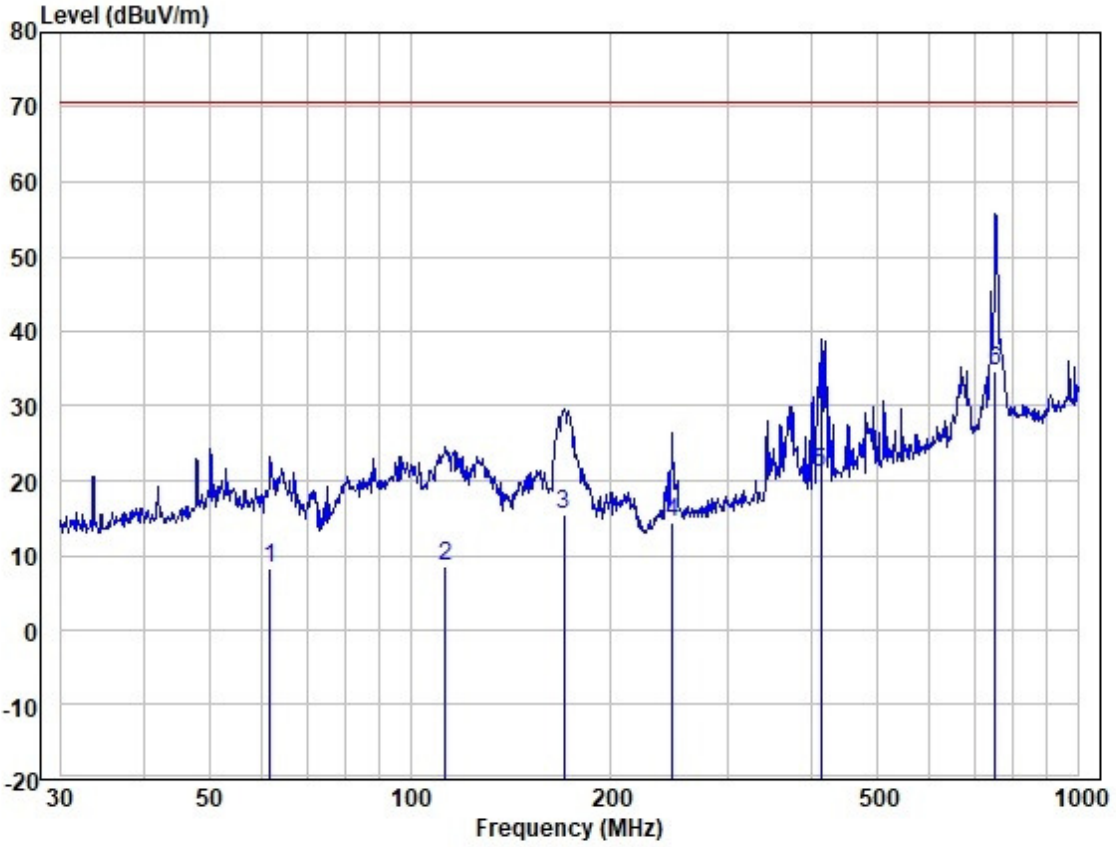
Test Mode: 06; Polarity: Horizontal



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	61.778	21.85	18.70	0.42	32.77	8.20	70.62	-62.42	HORIZONTAL	Average
2	112.920	24.38	16.27	0.58	32.71	8.52	70.62	-62.10	HORIZONTAL	Average
3	170.195	29.09	18.49	0.73	32.79	15.52	70.62	-55.10	HORIZONTAL	Average
4	246.815	28.92	17.52	0.87	32.84	14.47	70.62	-56.15	HORIZONTAL	Average
5	411.824	31.09	21.70	1.17	32.92	21.04	70.62	-49.58	HORIZONTAL	Average
6	752.743	37.02	27.82	1.61	31.69	34.76	70.62	-35.86	HORIZONTAL	Average

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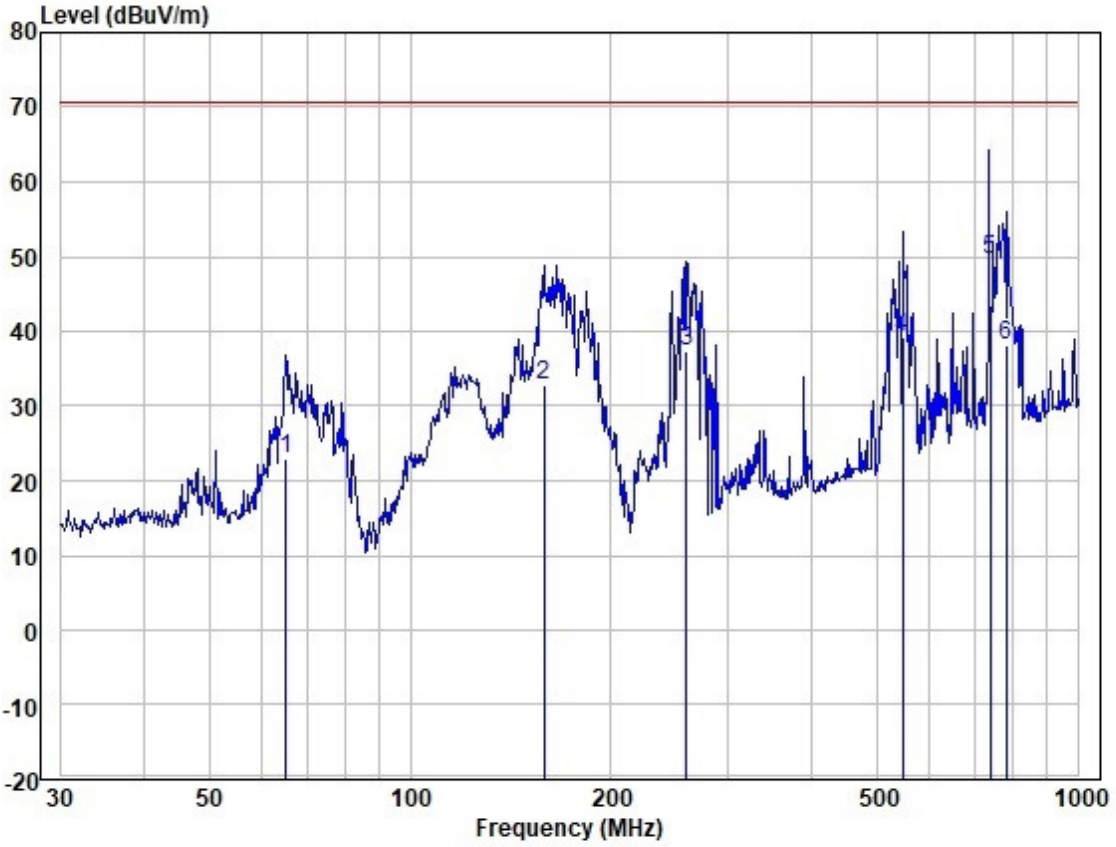
Test Mode: 06; Polarity: Vertical



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	65.114	37.05	18.20	0.44	32.77	22.92	70.66	-47.74	VERTICAL	Average
2	158.668	45.70	19.16	0.70	32.77	32.79	70.66	-37.87	VERTICAL	Average
3	259.234	51.33	17.88	0.92	32.85	37.28	70.66	-33.38	VERTICAL	Average
4	547.098	46.65	24.18	1.35	32.86	39.32	70.66	-31.34	VERTICAL	Average
5	739.661	52.95	27.56	1.58	31.72	50.37	70.66	-20.29	VERTICAL	Average
6	779.607	39.72	28.33	1.65	31.64	38.06	70.66	-32.60	VERTICAL	Average

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6.4 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC/OST MP-5:1986
Limit:
Measurement Distance: 3 m
Frequency Range: Above 1GHz
Detector: Peak for pre-scan, Average for the final result
(1MHz Resolution Bandwidth for 1000MHz Above)

Model D100D50ASLRIII-JB

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**930.5**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.66 dBuV/m**@ 3m distance.

Model D100D50ASLRIII-JT

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
	Any ISM frequency	**923.0**	Limit=20lg(25*SQRT(power/500))+20lg(300/3)=**70.62 dBuV/m** @ 3m distance.

6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 25.6 °C Humidity: 55.1 % RH Atmospheric Pressure: 1004 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

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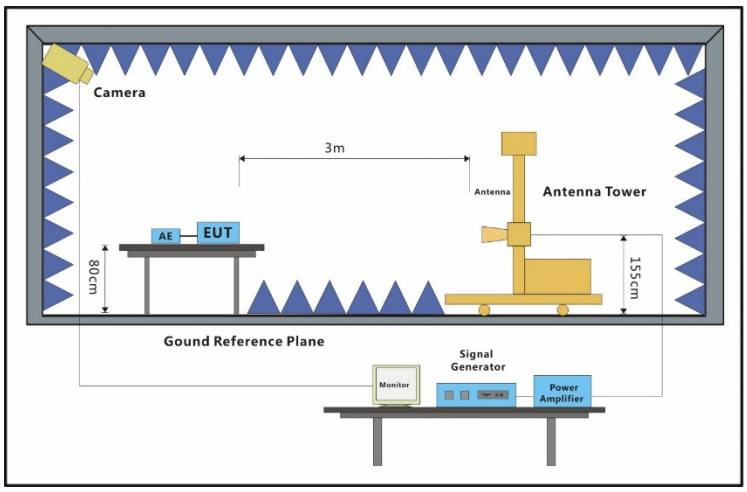
6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

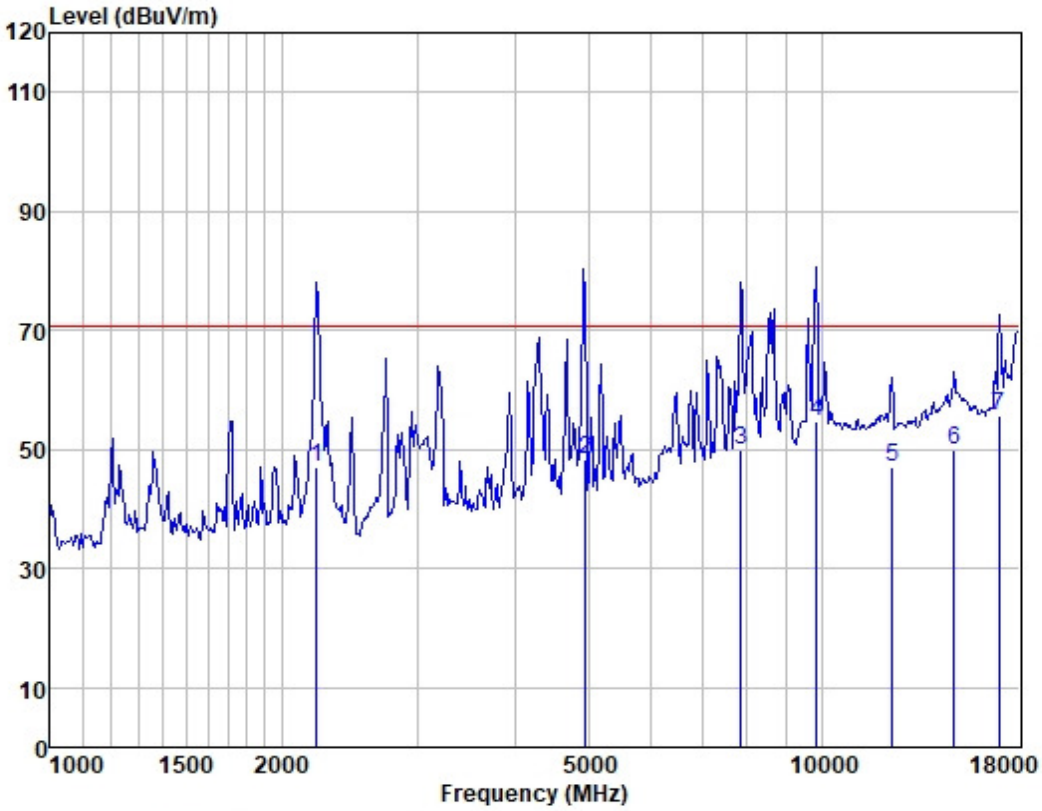
Frequency range: Above 1GHz

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

The red line show in graphic is the limit in standard used in this section.

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

Test Mode: 00; Polarity: Vertical



	Freq	Read 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	2214.114	54.44	27.12	3.27	37.79	47.04	70.66	-23.62	VERTICAL	Average
2	4938.895	49.18	31.72	4.88	37.33	48.45	70.66	-22.21	VERTICAL	Average
3	7851.849	44.01	37.11	6.16	37.20	50.08	70.66	-20.58	VERTICAL	Average
4	9866.789	45.55	39.01	7.17	37.10	54.63	70.66	-16.03	VERTICAL	Average
5	12361.950	36.78	39.26	7.89	36.88	47.05	70.66	-23.61	VERTICAL	Average
6	14873.890	35.40	42.10	8.90	36.51	49.89	70.66	-20.77	VERTICAL	Average
7	16988.970	40.95	41.79	9.43	36.42	55.75	70.66	-14.91	VERTICAL	Average

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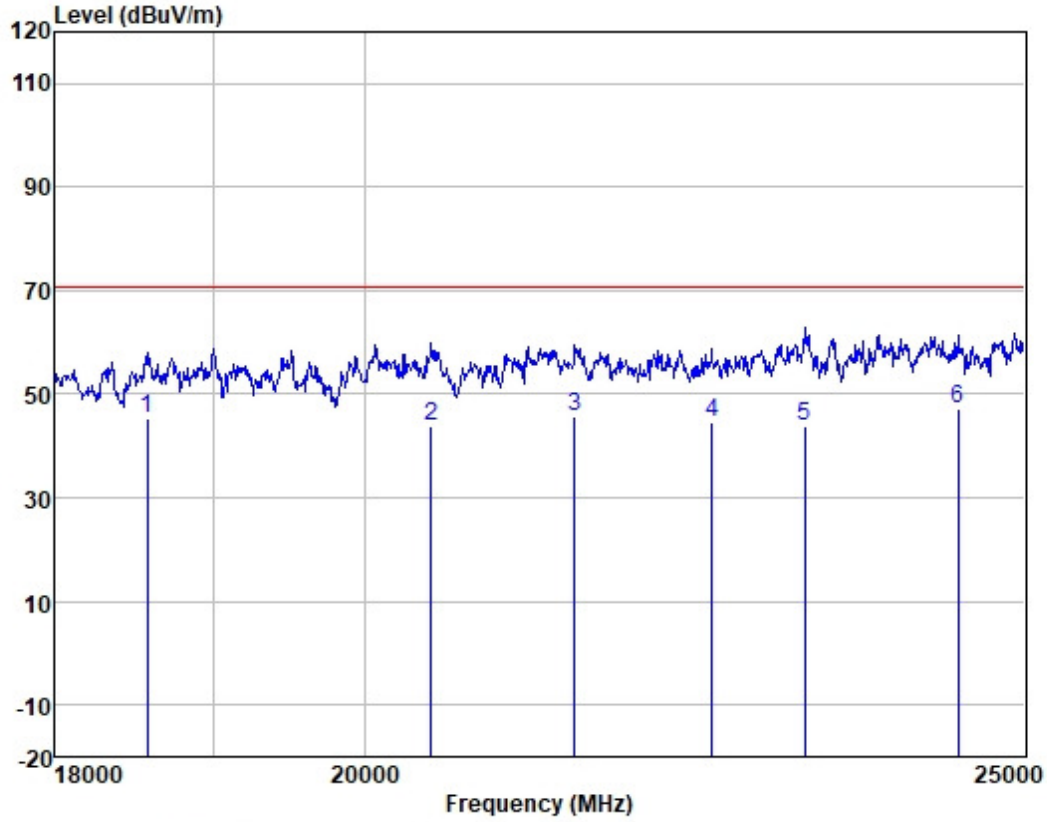
Test Mode: 00; Polarity: Vertical



	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	18570.600	44.36	36.92	3.14	39.24	45.18	70.66	-25.48	VERTICAL	Average
2	20446.900	43.03	37.29	3.10	39.71	43.71	70.66	-26.95	VERTICAL	Average
3	21472.620	44.02	37.60	3.27	39.28	45.61	70.66	-25.05	VERTICAL	Average
4	22490.600	42.33	38.10	3.34	39.05	44.72	70.66	-25.94	VERTICAL	Average
5	23211.180	40.00	38.54	3.35	38.13	43.76	70.66	-26.90	VERTICAL	Average
6	24455.770	43.93	38.70	3.42	38.79	47.26	70.66	-23.40	VERTICAL	Average

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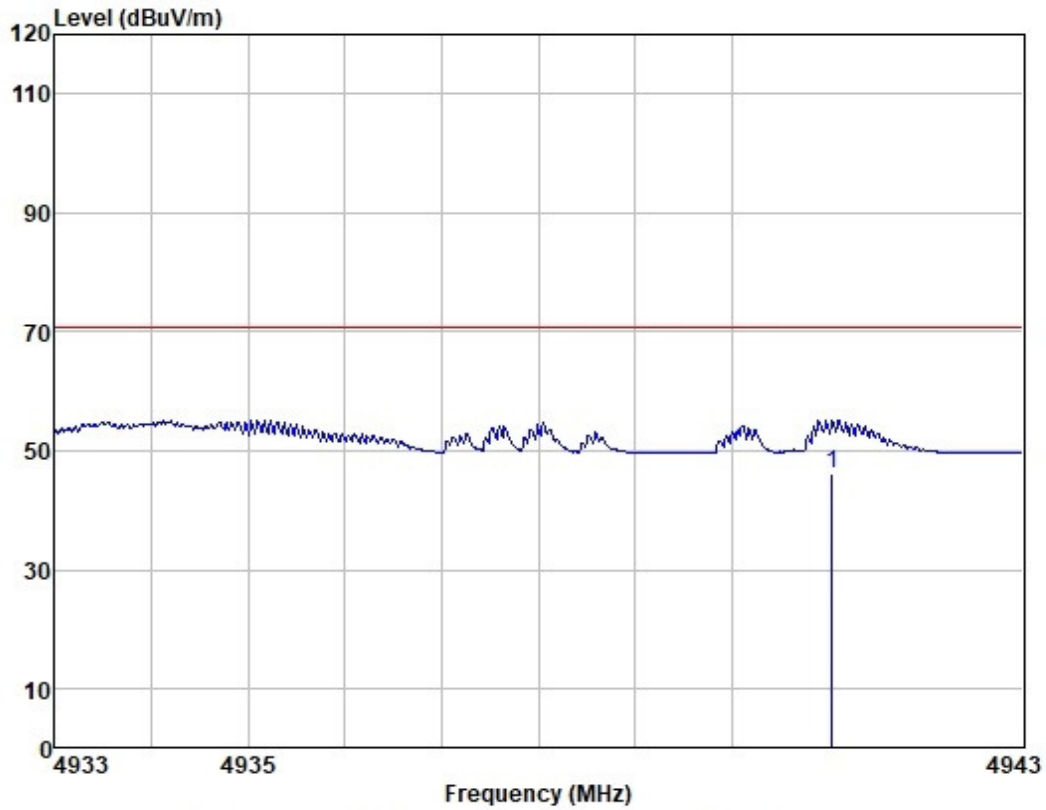
Test Mode: 00; Polarity: Vertical



	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	4941.039	47.05	31.72	4.88	37.33	46.32	70.66	-24.34	VERTICAL	Average

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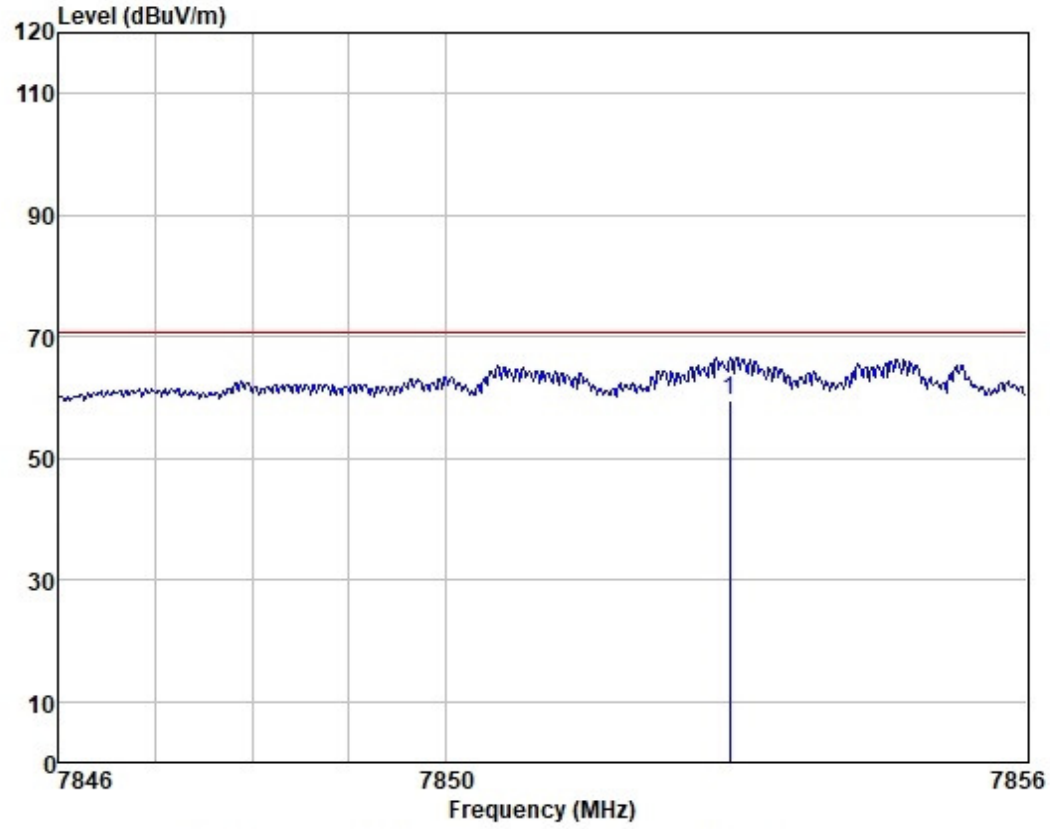
Test Mode: 00; Polarity: Vertical



	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	7852.938	53.65	37.11	6.16	37.20	59.72	70.66	-10.94	VERTICAL	Average

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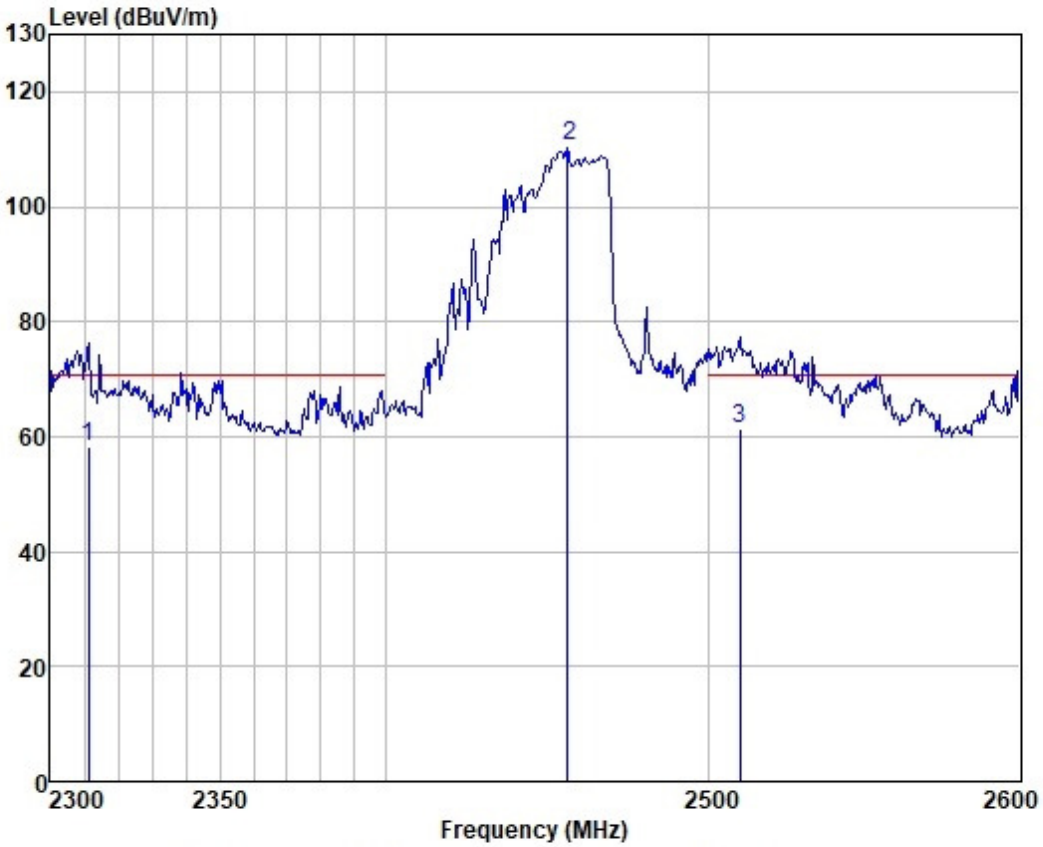
Test Mode: 00; Polarity: Vertical



	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	2311.307	27.29	27.49	3.40	0.00	58.18	70.66	-12.48	VERTICAL	Average
2	2455.619	79.45	27.72	3.47	0.00	110.64	------	------	VERTICAL	peak
3	2509.797	30.01	27.78	3.49	0.00	61.28	70.66	-9.38	VERTICAL	Average

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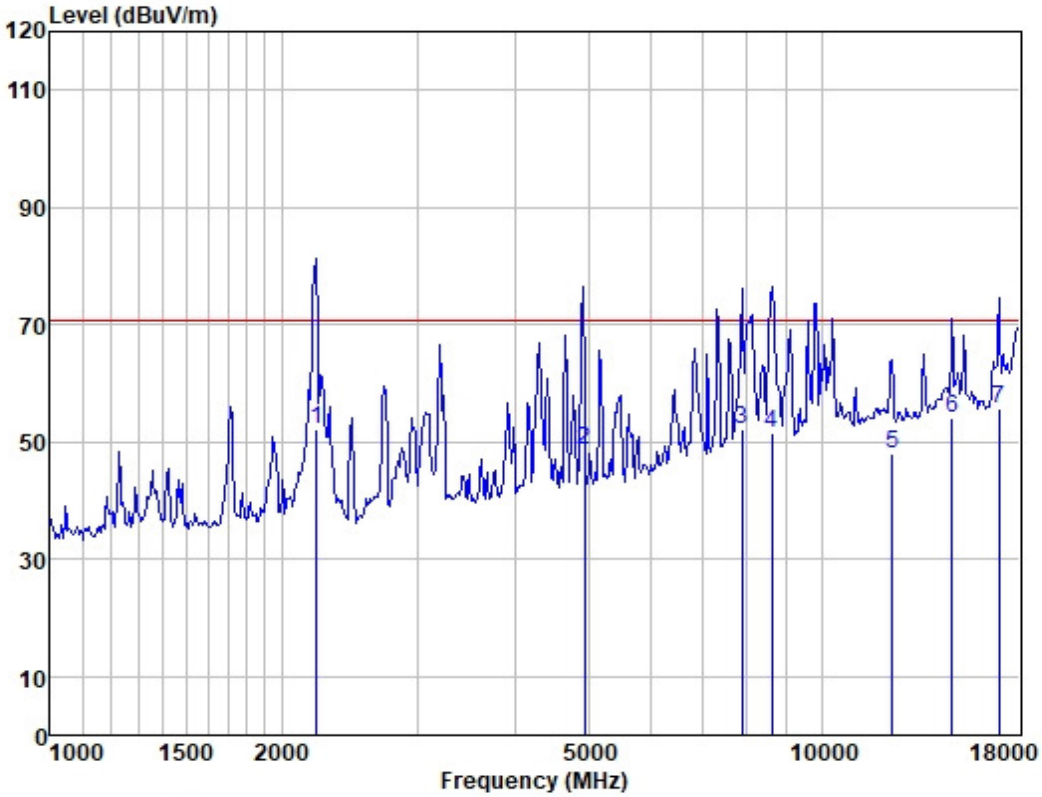
Test Mode: 00; Polarity: Horizontal



	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	2214.114	59.57	27.12	3.27	37.79	52.17	70.66	-18.49	HORIZONTAL	Average
2	4930.278	49.27	31.70	4.88	37.33	48.52	70.66	-22.14	HORIZONTAL	Average
3	7887.929	46.17	37.16	6.18	37.20	52.31	70.66	-18.35	HORIZONTAL	Average
4	8613.468	45.28	36.97	6.49	37.18	51.56	70.66	-19.10	HORIZONTAL	Average
5	12361.950	37.80	39.26	7.89	36.88	48.07	70.66	-22.59	HORIZONTAL	Average
6	14788.150	39.62	42.17	8.79	36.51	54.07	70.66	-16.59	HORIZONTAL	Average
7	16988.970	40.91	41.79	9.43	36.42	55.71	70.66	-14.95	HORIZONTAL	Average

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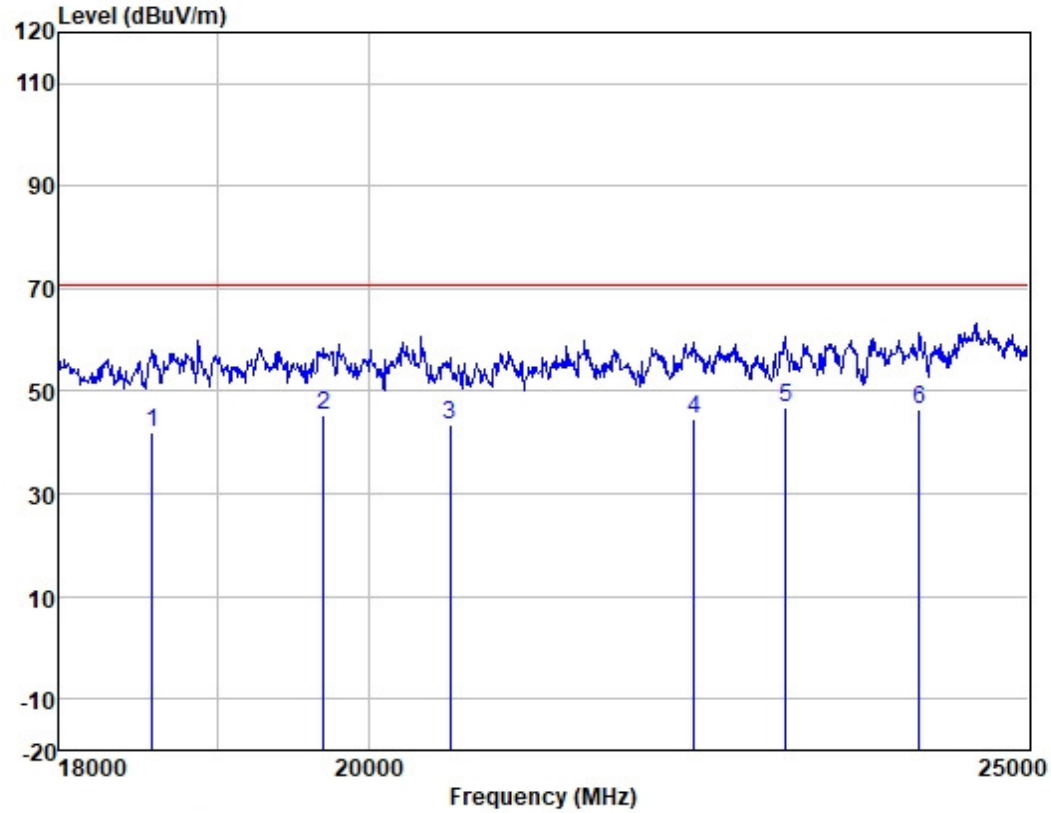
Test Mode: 00; Polarity: Horizontal



	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	18576.700	41.09	36.92	3.14	39.24	41.91	70.66	-28.75	HORIZONTAL	Average
2	19688.870	45.64	36.97	3.03	40.21	45.43	70.66	-25.23	HORIZONTAL	Average
3	20554.650	42.31	37.34	3.14	39.39	43.40	70.66	-27.26	HORIZONTAL	Average
4	22328.650	42.70	37.94	3.34	39.47	44.51	70.66	-26.15	HORIZONTAL	Average
5	23028.900	43.00	38.50	3.33	38.17	46.66	70.66	-24.00	HORIZONTAL	Average
6	24096.900	42.31	38.70	3.45	37.93	46.53	70.66	-24.13	HORIZONTAL	Average

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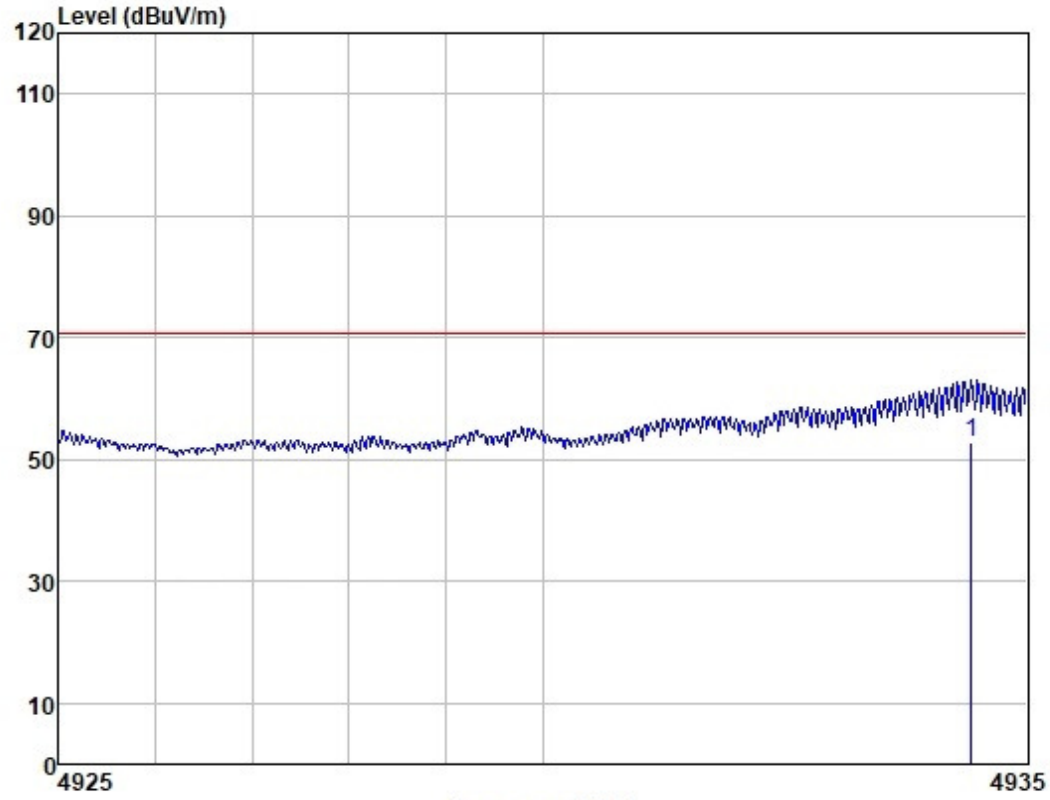
Test Mode: 00; Polarity: Horizontal



	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	4934.439	53.84	31.70	4.88	37.33	53.09	70.66	-17.57	HORIZONTAL	Average

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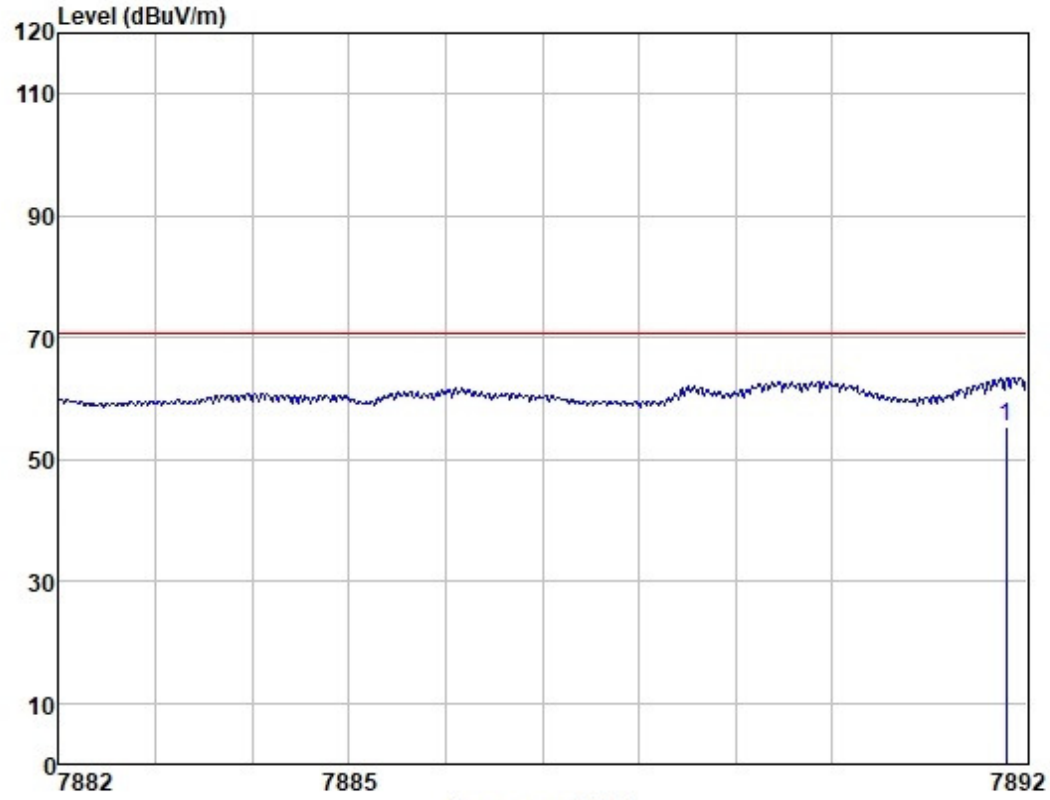
Test Mode: 00; Polarity: Horizontal



	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	7891.800	49.28	37.16	6.18	37.20	55.42	70.66	-15.24	HORIZONTAL	Average

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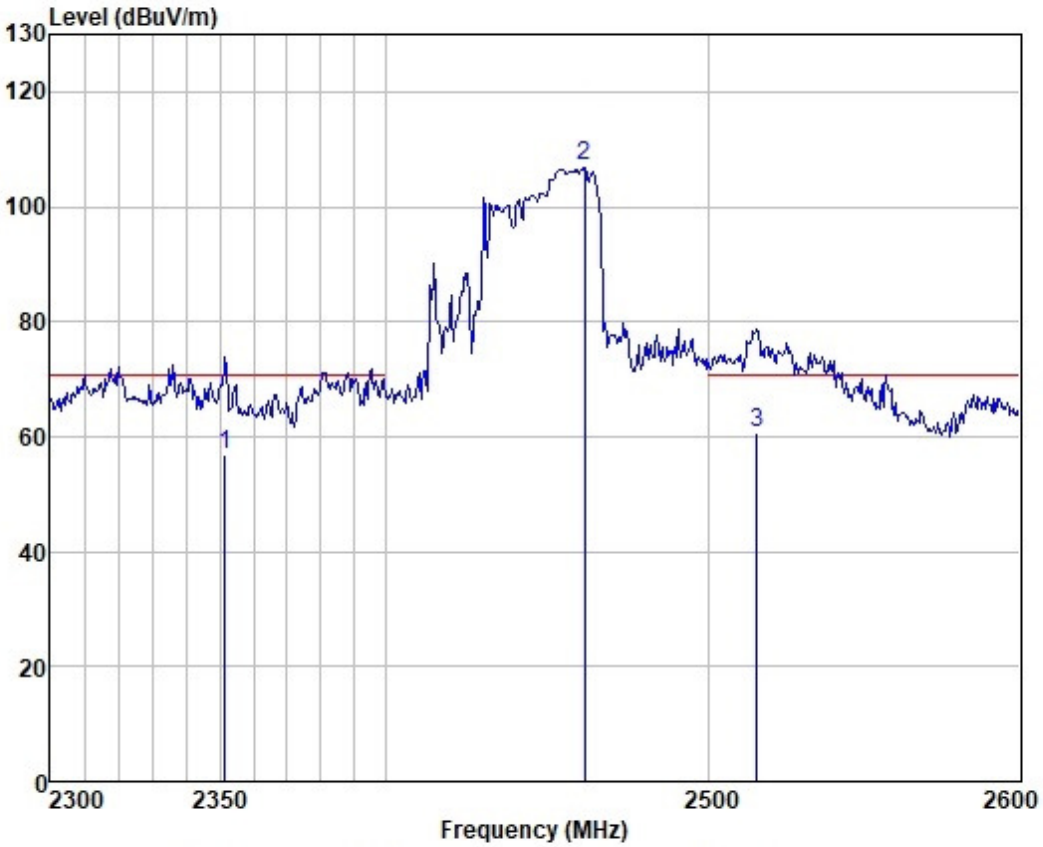
Test Mode: 00; Polarity: Horizontal



	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	2351.610	25.73	27.57	3.42	0.00	56.72	70.66	-13.94	HORIZONTAL	Average
2	2461.044	74.80	27.73	3.48	0.00	106.01	------	------	HORIZONTAL	peak
3	2515.342	29.55	27.79	3.50	0.00	60.84	70.66	-9.82	HORIZONTAL	Average

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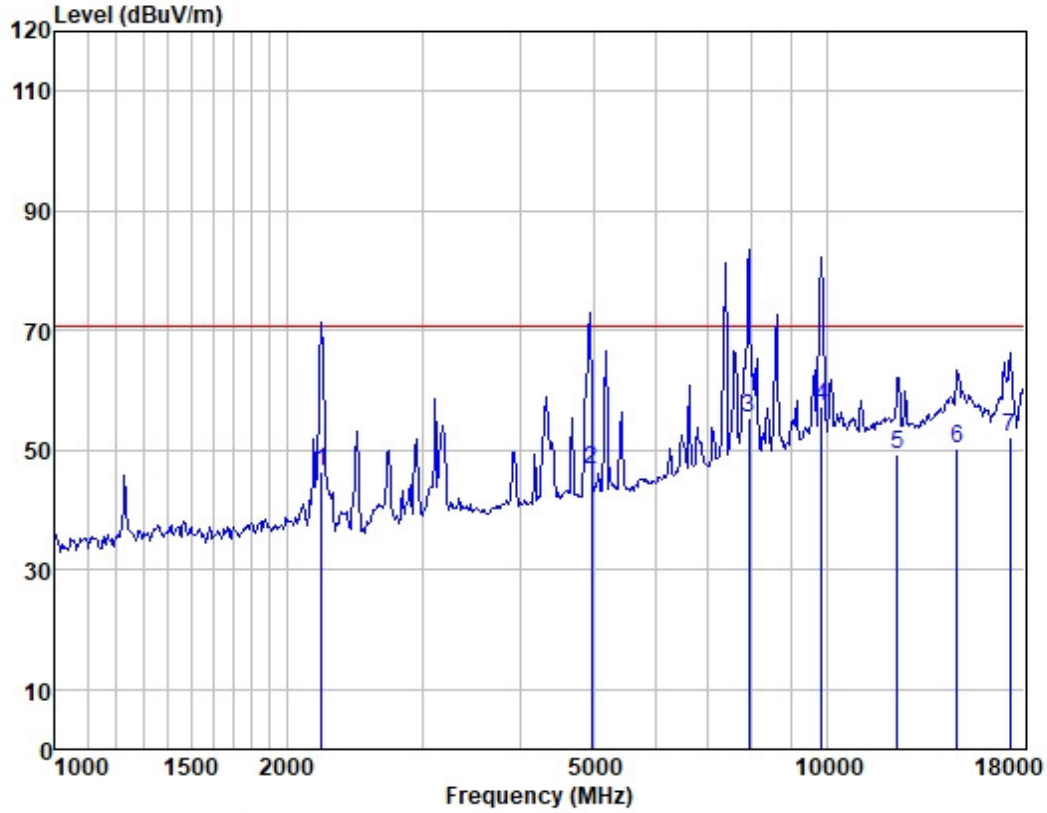
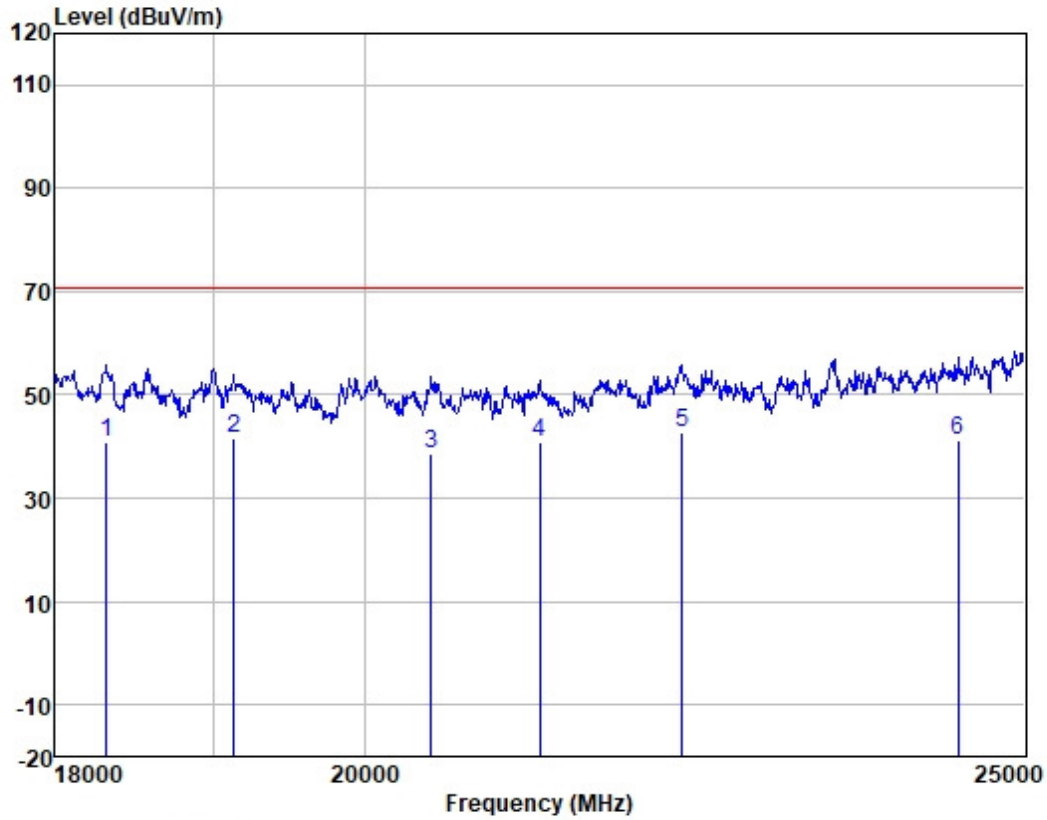
Test Mode: 06; Polarity: Vertical



	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	2214.114	53.79	27.12	3.27	37.79	46.39	70.62	-24.23	VERTICAL	Average
2	4954.571	47.55	31.74	4.89	37.32	46.86	70.62	-23.76	VERTICAL	Average
3	7943.838	49.30	37.19	6.19	37.20	55.48	70.62	-15.14	VERTICAL	Average
4	9866.789	48.20	39.01	7.17	37.10	57.28	70.62	-13.34	VERTICAL	Average
5	12361.950	38.86	39.26	7.89	36.88	49.13	70.62	-21.49	VERTICAL	Average
6	14788.150	35.81	42.17	8.79	36.51	50.26	70.62	-20.36	VERTICAL	Average
7	17286.170	35.87	43.12	9.52	36.41	52.10	70.62	-18.52	VERTICAL	Average

Test Mode: 06; Polarity: Vertical



	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	18316.140	40.05	36.72	3.08	39.16	40.69	70.62	-29.93	VERTICAL	Average
2	19127.840	40.90	37.06	3.19	39.40	41.75	70.62	-28.87	VERTICAL	Average
3	20446.900	38.03	37.29	3.10	39.71	38.71	70.62	-31.91	VERTICAL	Average
4	21220.170	38.95	37.66	3.24	38.91	40.94	70.62	-29.68	VERTICAL	Average
5	22270.040	41.13	37.84	3.35	39.56	42.76	70.62	-27.86	VERTICAL	Average
6	24455.770	37.93	38.70	3.42	38.79	41.26	70.62	-29.36	VERTICAL	Average

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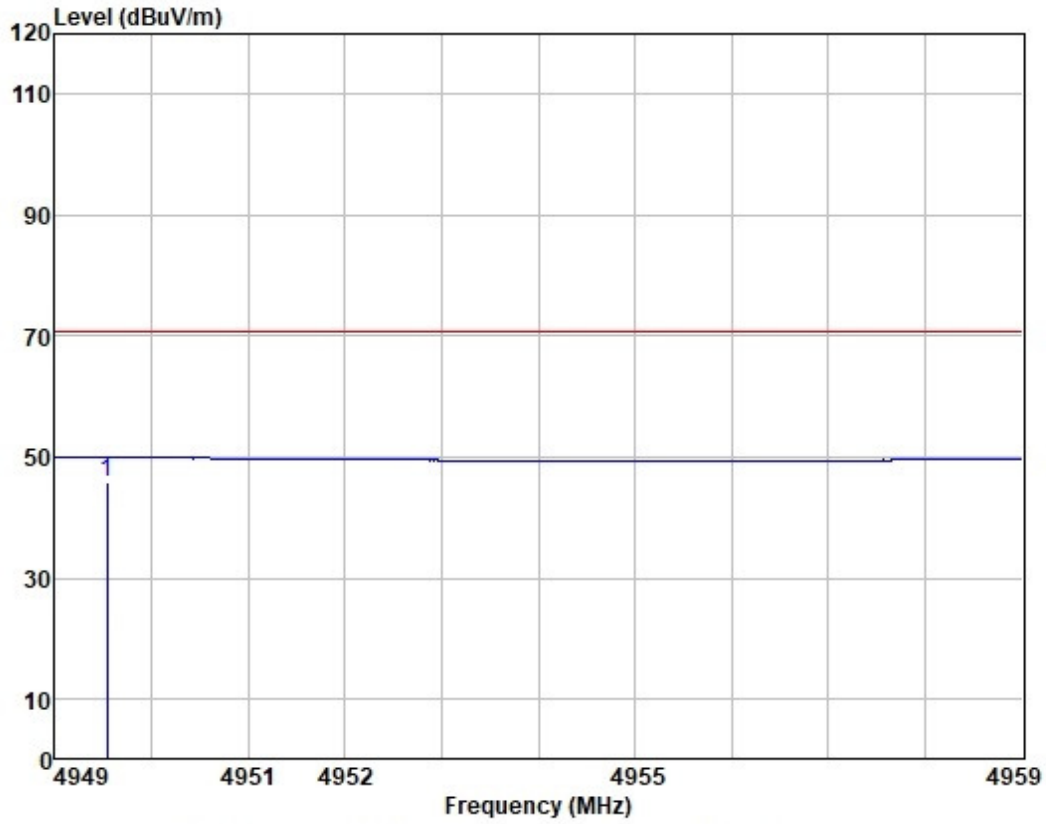
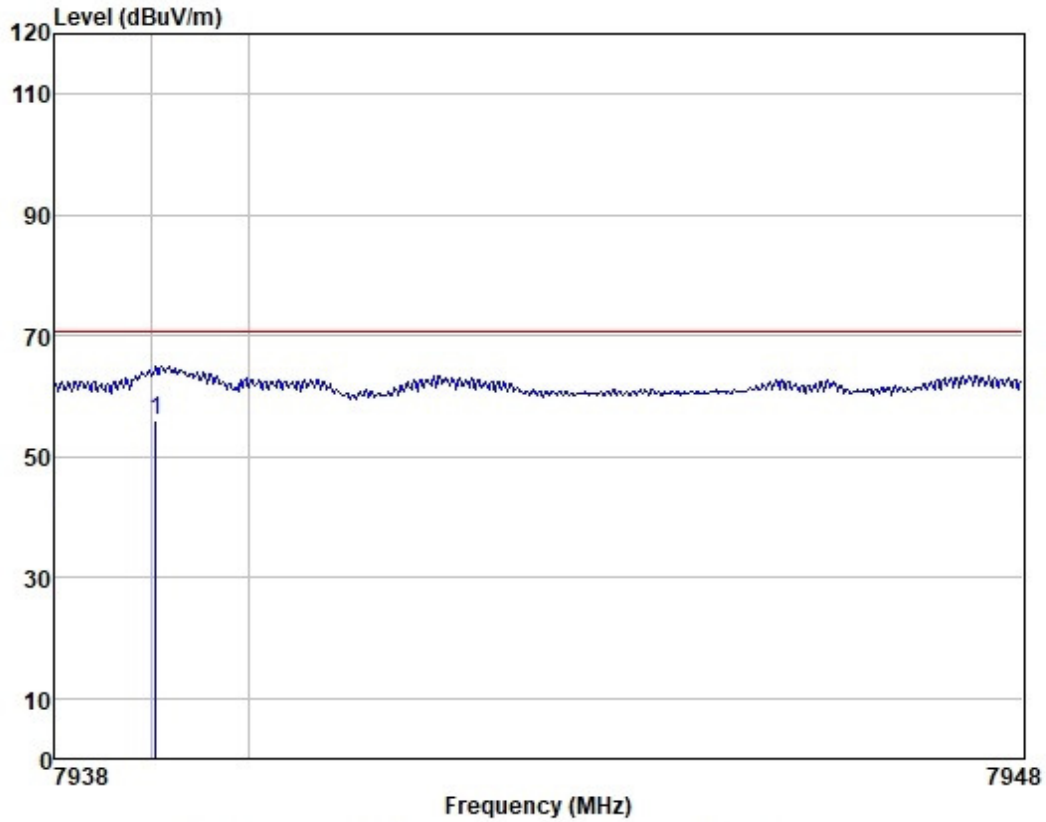
Test Mode: 06; Polarity: Vertical



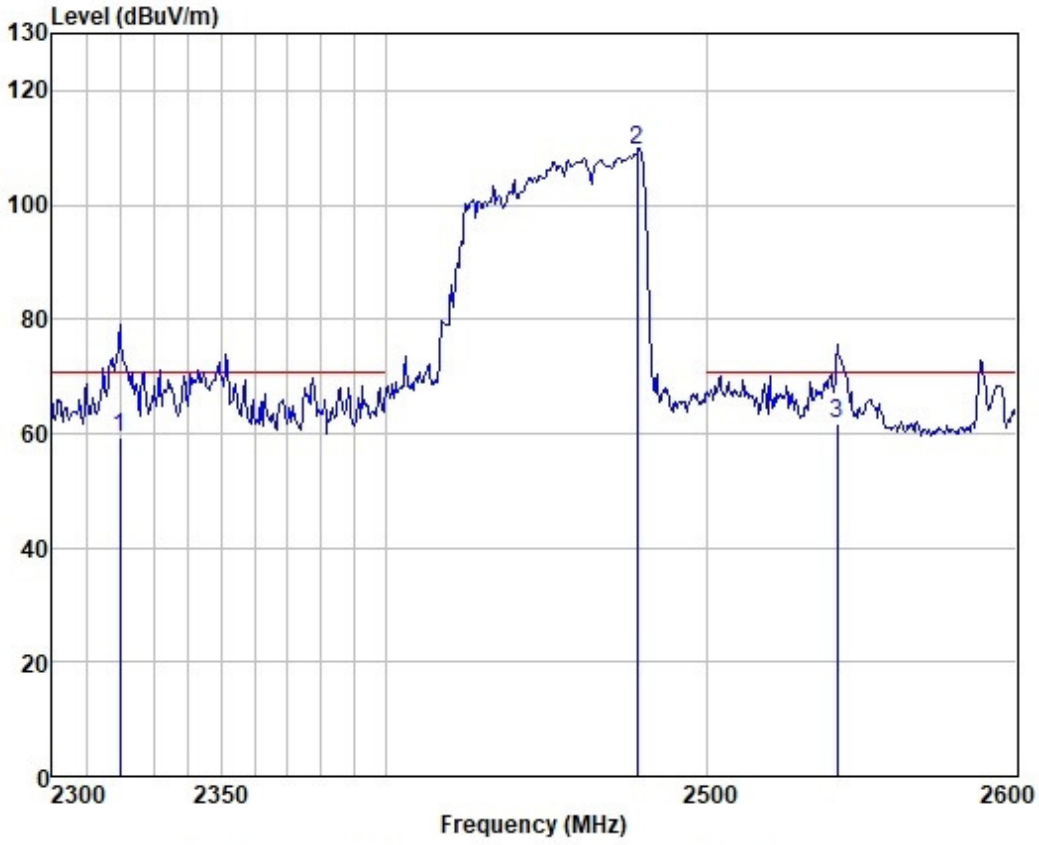
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4949.540	46.72	31.72	4.88	37.33	45.99	70.62	-24.63	VERTICAL	Average

Test Mode: 06; Polarity: Vertical



	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	7939.040	49.98	37.19	6.19	37.20	56.16	70.62	-14.46	VERTICAL	Average

Test Mode: 06; Polarity: Vertical



	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	2319.824	28.29	27.50	3.40	0.00	59.19	70.62	-11.43	VERTICAL	Average
2	2477.999	79.40	27.75	3.48	0.00	110.63	------	------	VERTICAL	peak
3	2541.692	30.28	27.82	3.51	0.00	61.61	70.62	-9.01	VERTICAL	Average

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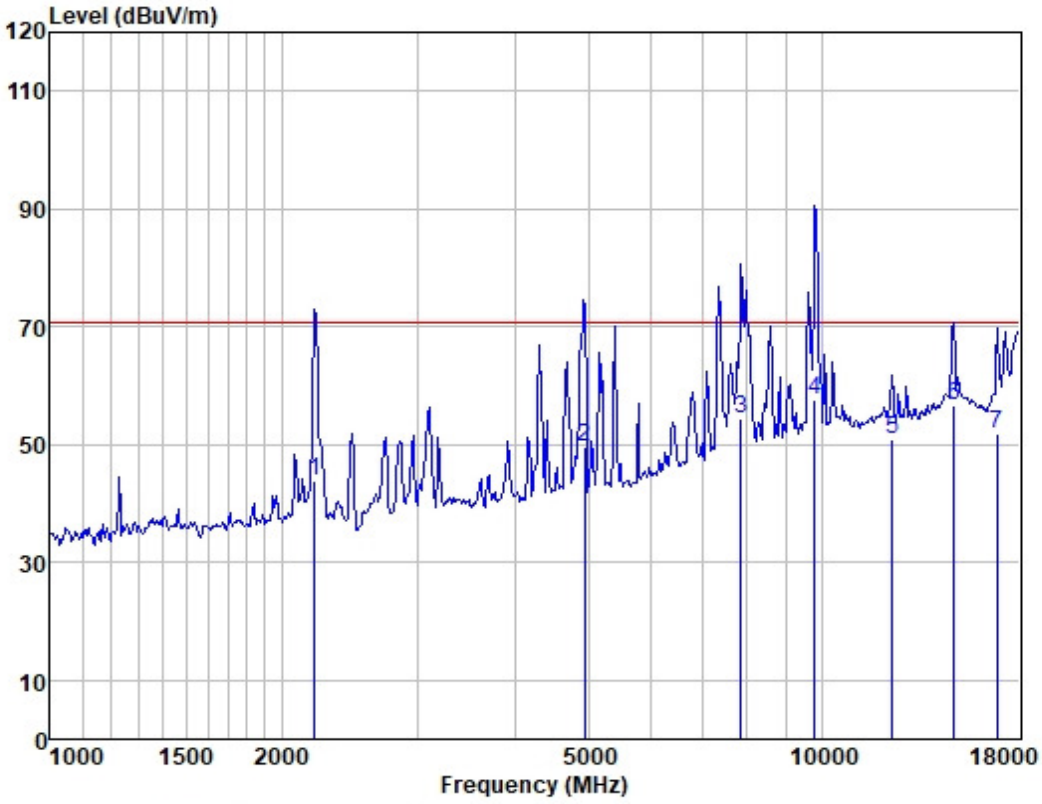
Test Mode: 06; Polarity: Horizontal



	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	2201.352	51.41	27.07	3.26	37.79	43.95	70.62	-26.67	HORIZONTAL	Average
2	4930.178	50.27	31.70	4.88	37.33	49.52	70.62	-21.10	HORIZONTAL	Average
3	7867.781	48.44	37.13	6.17	37.20	54.54	70.62	-16.08	HORIZONTAL	Average
4	9809.916	48.55	38.95	7.14	37.10	57.54	70.62	-13.08	HORIZONTAL	Average
5	12361.950	40.47	39.26	7.89	36.88	50.74	70.62	-19.88	HORIZONTAL	Average
6	14873.890	42.29	42.10	8.90	36.51	56.78	70.62	-13.84	HORIZONTAL	Average
7	16891.040	37.38	41.36	9.41	36.42	51.73	70.62	-18.89	HORIZONTAL	Average

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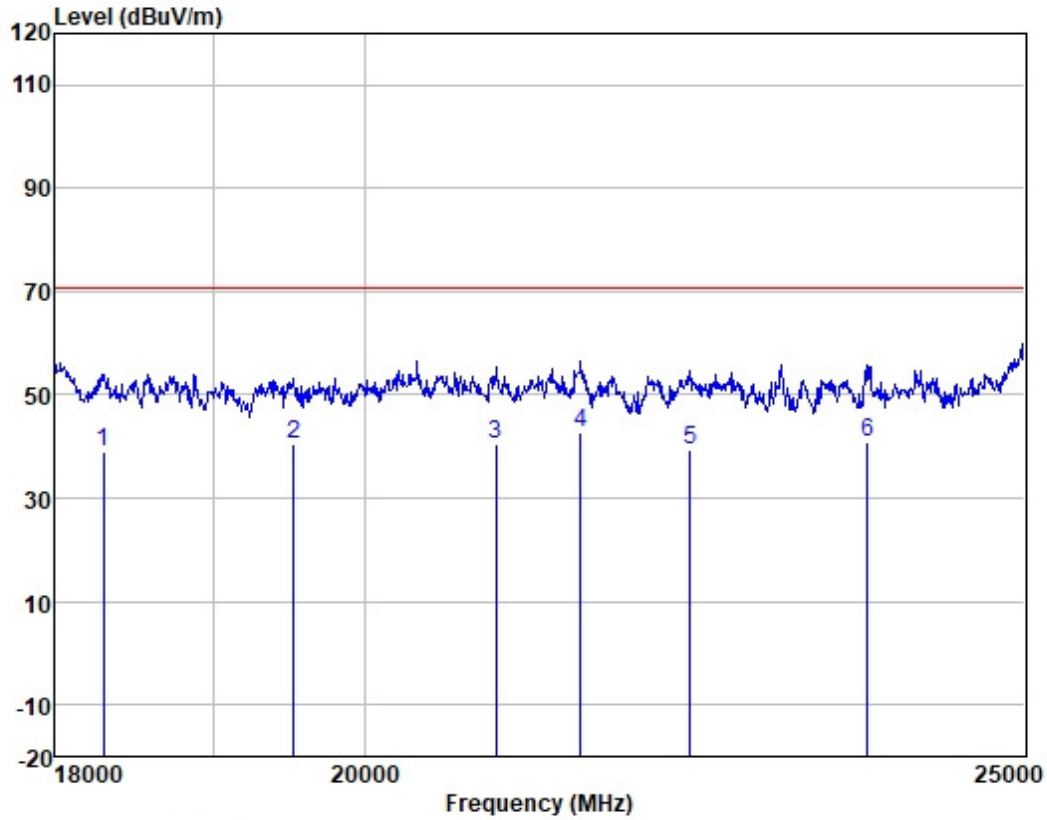
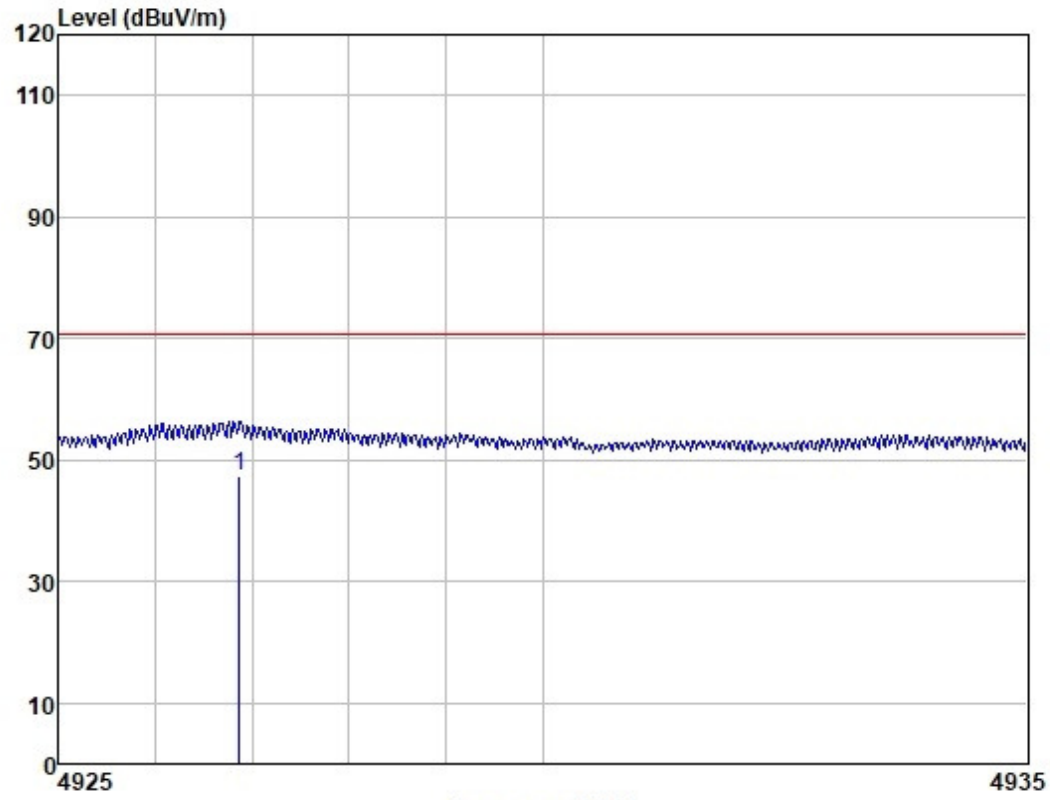
Test Mode: 06; Polarity: Horizontal



	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	18298.100	38.36	36.69	3.08	39.15	38.98	70.62	-31.64	HORIZONTAL	Peak
2	19515.010	40.27	36.91	3.10	39.93	40.35	70.62	-30.27	HORIZONTAL	Peak
3	20901.920	38.38	37.64	3.21	38.83	40.40	70.62	-30.22	HORIZONTAL	Peak
4	21514.980	41.21	37.60	3.28	39.37	42.72	70.62	-27.90	HORIZONTAL	Peak
5	22328.650	37.70	37.94	3.34	39.47	39.51	70.62	-31.11	HORIZONTAL	Peak
6	23712.130	36.71	38.64	3.42	37.87	40.90	70.62	-29.72	HORIZONTAL	Peak

Test Mode: 06; Polarity: Horizontal



	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	4926.869	48.18	31.70	4.88	37.33	47.43	70.62	-23.19	HORIZONTAL	Average

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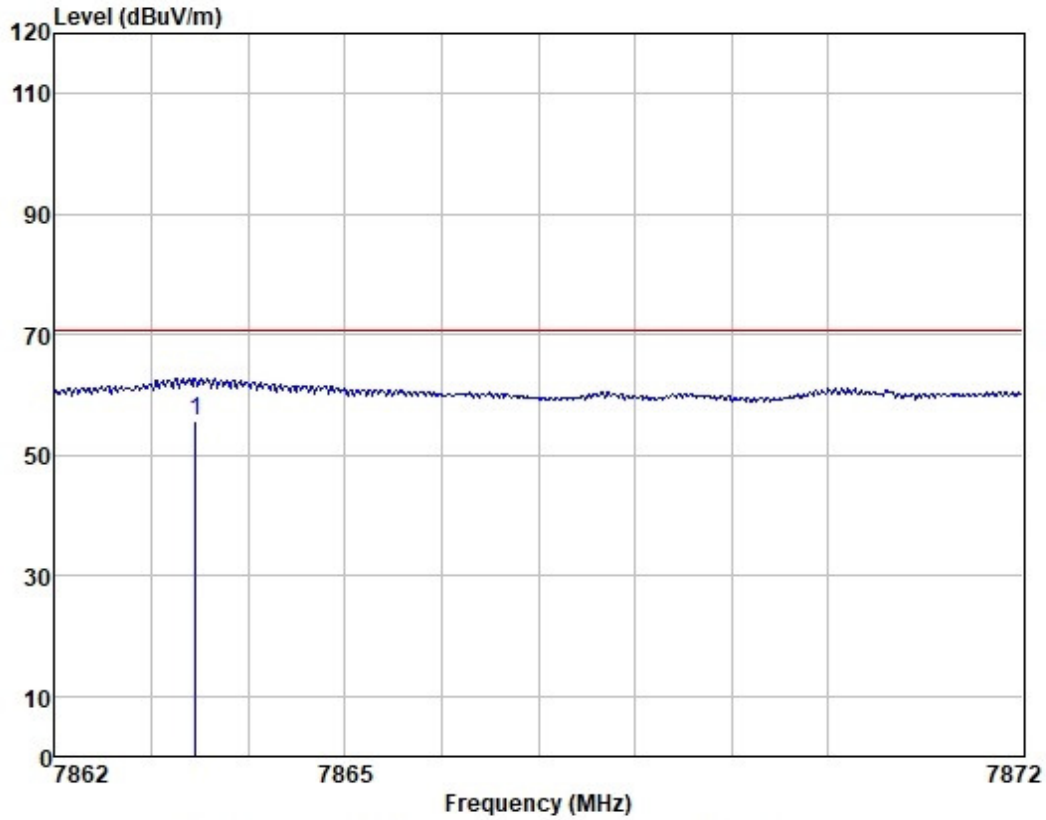
Test Mode: 06; Polarity: Horizontal



	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	7863.459	49.91	37.11	6.16	37.20	55.98	70.62	-14.64	HORIZONTAL	Average

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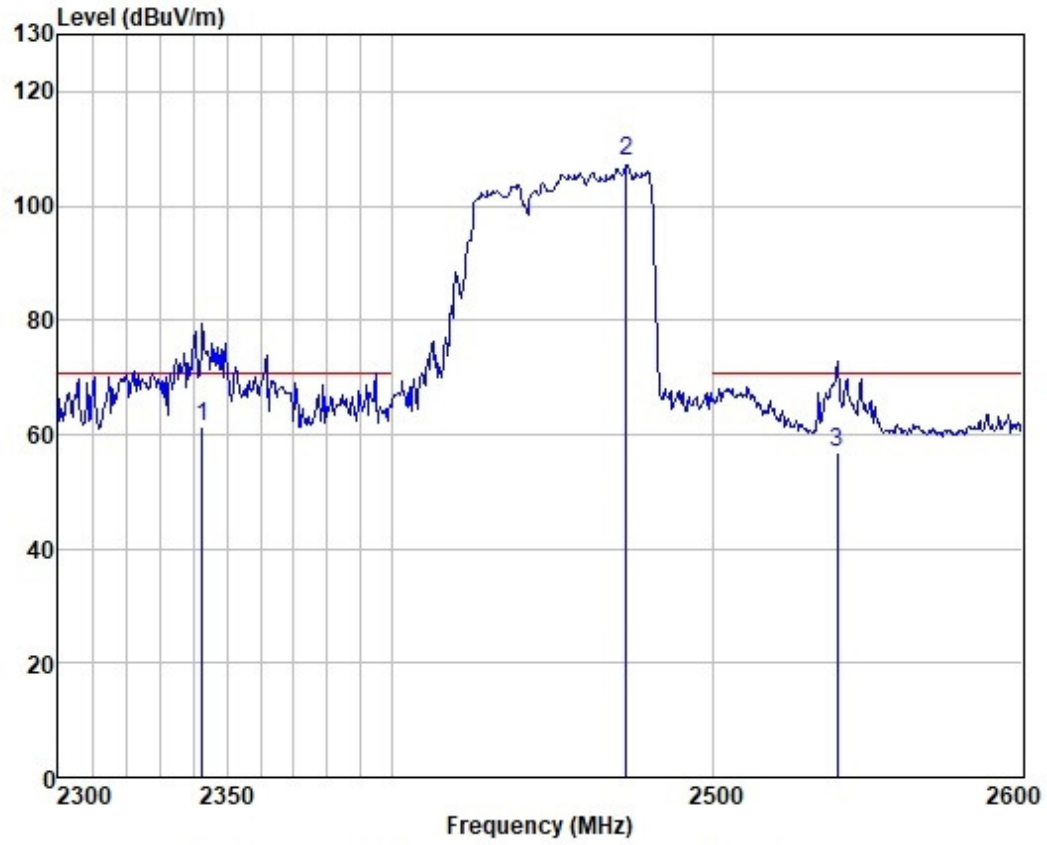
Test Mode: 06; Polarity: Horizontal



	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	2342.689	30.52	27.56	3.42	0.00	61.50	70.62	-9.12	HORIZONTAL	Average
2	2472.536	75.31	27.74	3.48	0.00	106.53	------	------	HORIZONTAL	peak
3	2539.823	25.44	27.81	3.50	0.00	56.75	70.62	-13.87	HORIZONTAL	Average

6.5 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Limit:

Power output Measurement:

Formula:

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

NOTE :

P is the microwave power output, in watts

m_w is the mass of the water, in grams

m_c is the mass of the container, in grams

T_0 is the ambient temperature, in degrees Celsius

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

T_2 is the final temperature of the water, in degrees Celsius

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

Input Power Measurement:

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C Humidity: 55.1 % RH Atmospheric Pressure: 1004 mbar

6.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

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6.5.3 Measurement Procedure and Data

For model: D100D50ASLRIII-JB:

Output Power Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (℃)	Initial temperature (℃)	Final temperature (℃)	Heating time (s)	Power output (W)
1002	496	20.3	10	20.0	45	930.5

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.04	12.89	0.935	1447	1500

For model: D100D50ASLRIII-JT:

Output Power Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (℃)	Initial temperature (℃)	Final temperature (℃)	Heating time (s)	Power output (W)
1004	496	20.1	9.9	19.8	45	923.0

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.06	12.81	0.938	1443	1500

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6.6 Operating Frequency Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Limit:

Frequency Range: 2400-2500 MHz

Detector: Average for the final result for outside ISM band(2450MHz±50MHz)

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

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

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	25*SQRT(power/500)

Model D100D50ASLRIII-JB:the output power = 930.5W

Model D100D50ASLRIII-JT:the output power = 923.0W

according to clause 6.1.2

Model D100D50ASLRIII-JB: the Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=70.66dBuV/m @ 3m distance.**

Model D100D50ASLRIII-JT: the Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=70.62dBuV/m @ 3m distance.**

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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

6.6.1 E.U.T. Operation

Operating Environment:

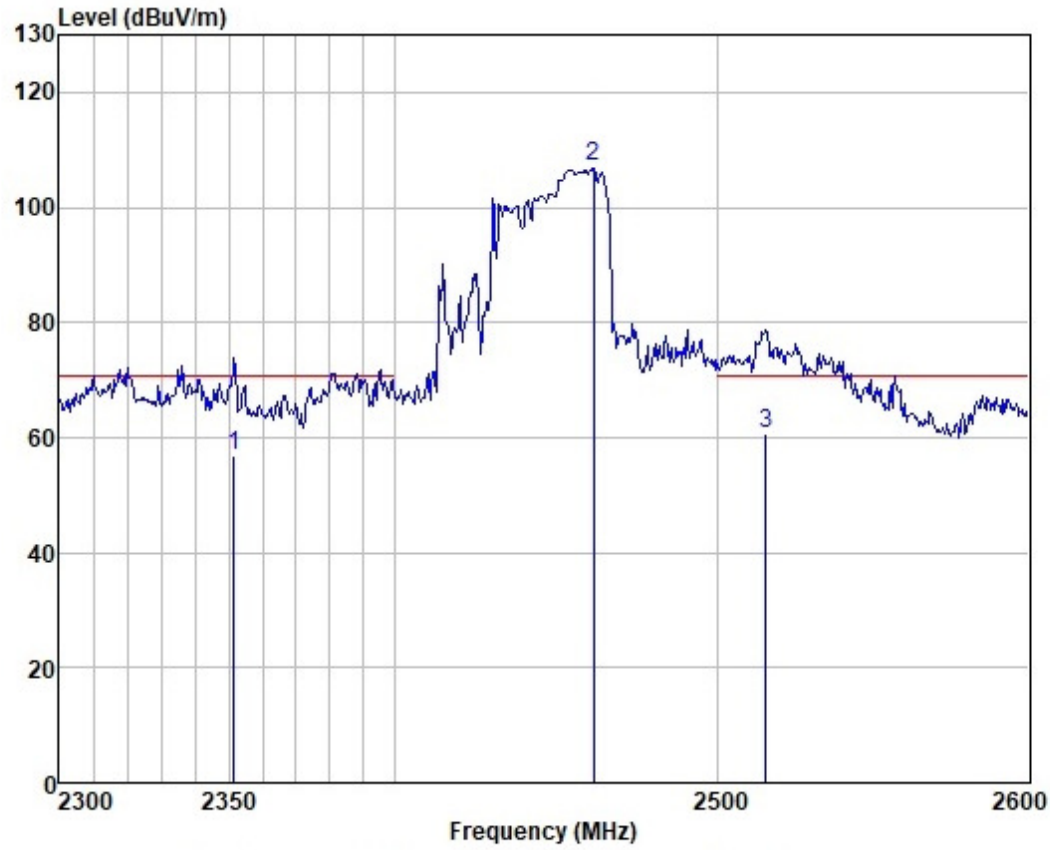
Temperature: 25.6 °C Humidity: 55.1 % RH Atmospheric Pressure: 1004 mbar

6.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

6.6.3 Measurement Procedure and Data

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



	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	2351.610	25.73	27.57	3.42	0.00	56.72	70.66	-13.94	HORIZONTAL	Average
2	2461.044	74.80	27.73	3.48	0.00	106.01	------	------	HORIZONTAL	peak
3	2515.342	29.55	27.79	3.50	0.00	60.84	70.66	-9.82	HORIZONTAL	Average

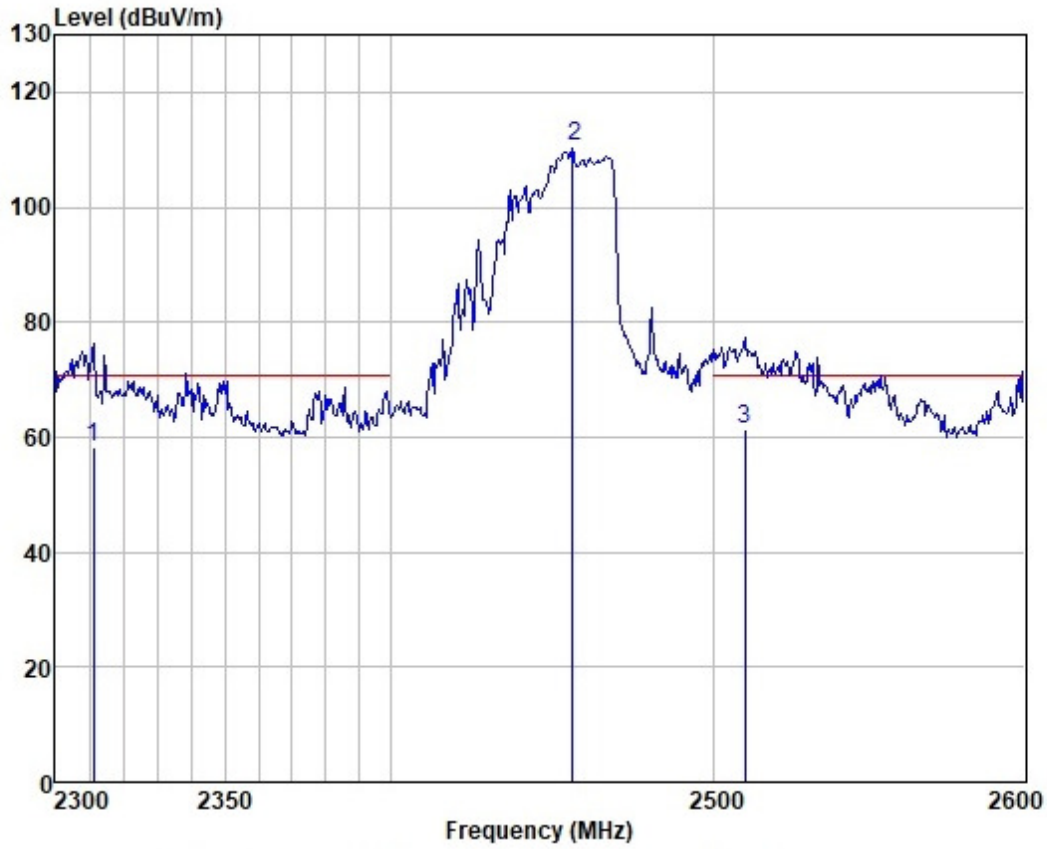
The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

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

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2461.044

Test Mode: 00; Polarity: Vertical; The variation of frequency with time



	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	2311.307	27.29	27.49	3.40	0.00	58.18	70.66	-12.48	VERTICAL	Average
2	2455.619	79.45	27.72	3.47	0.00	110.64	------	------	VERTICAL	peak
3	2509.797	30.01	27.78	3.49	0.00	61.28	70.66	-9.38	VERTICAL	Average

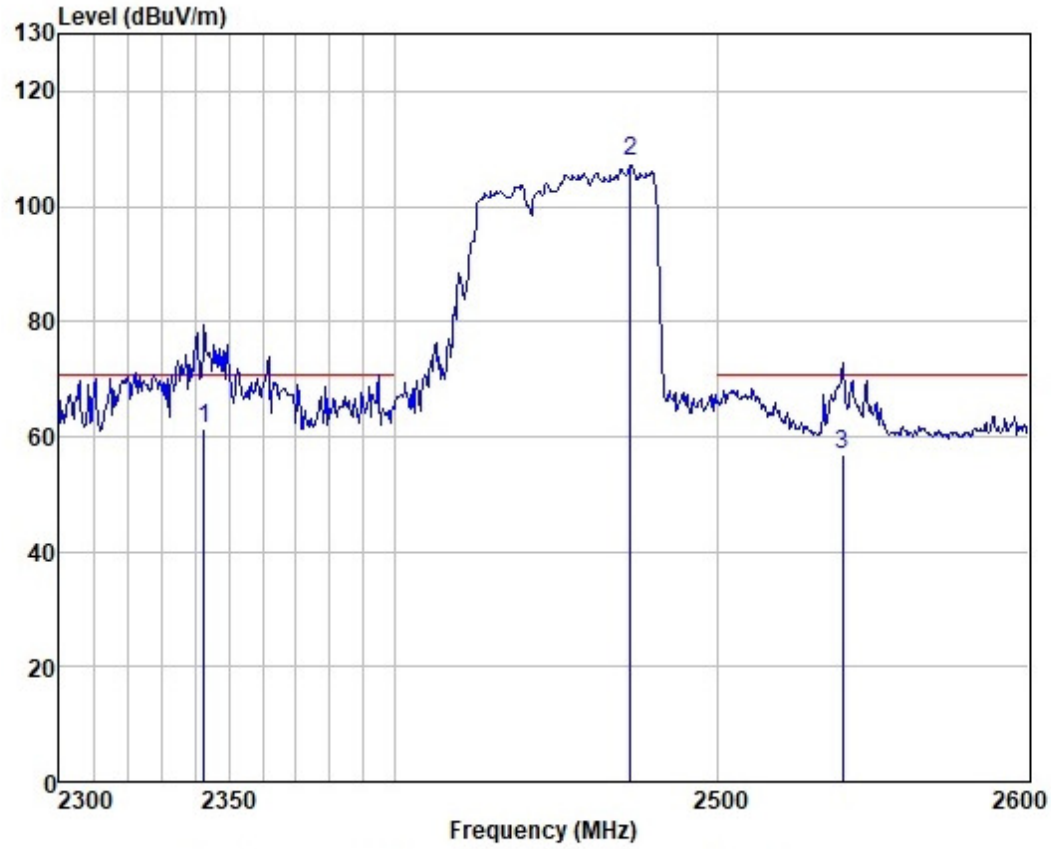
The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2455.619

Test Mode: 06; Polarity: Horizontal; The variation of frequency with line voltage



	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	2342.689	30.52	27.56	3.42	0.00	61.50	70.62	-9.12	HORIZONTAL	Average
2	2472.536	75.31	27.74	3.48	0.00	106.53	------	------	HORIZONTAL	peak
3	2539.823	25.44	27.81	3.50	0.00	56.75	70.62	-13.87	HORIZONTAL	Average

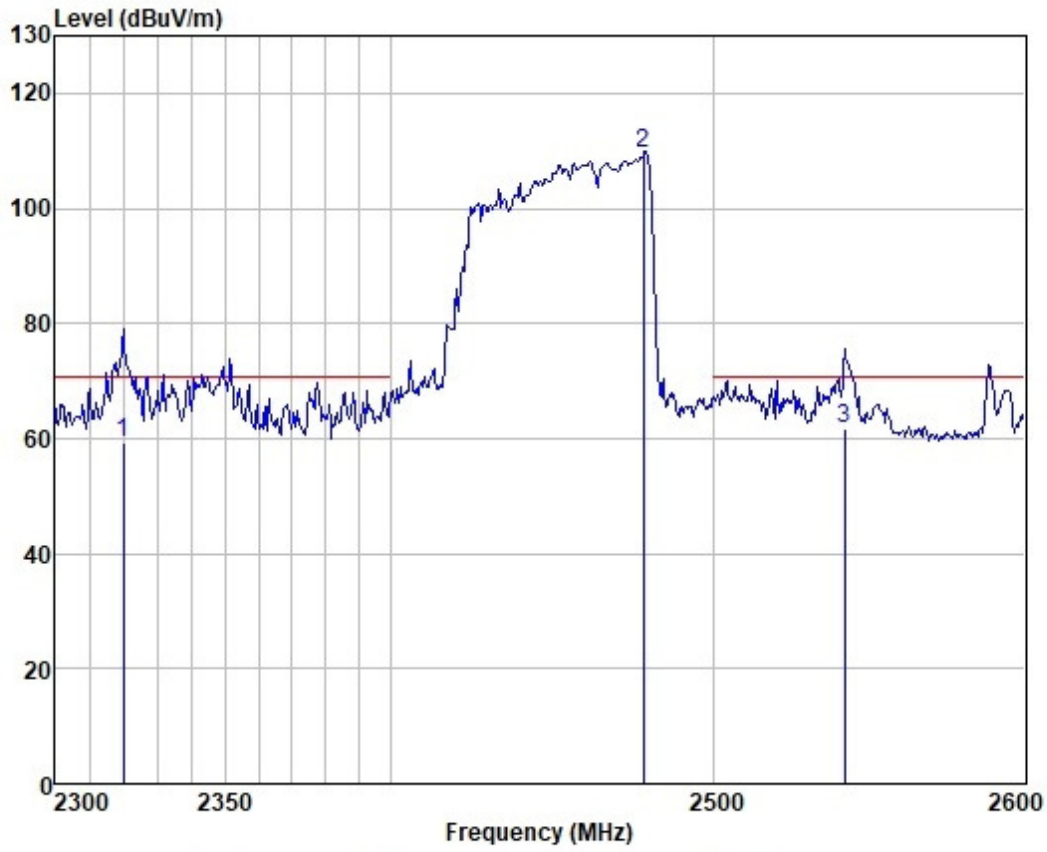
The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

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

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2472.536

Test Mode: 06; Polarity: Vertical; The variation of frequency with time



	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	2319.824	28.29	27.50	3.40	0.00	59.19	70.62	-11.43	VERTICAL	Average
2	2477.999	79.40	27.75	3.48	0.00	110.63	------	------	VERTICAL	peak
3	2541.692	30.28	27.82	3.51	0.00	61.61	70.62	-9.01	VERTICAL	Average

The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2477.999

6.7 Radiation Hazard Test

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C Humidity: 56.8 % RH Atmospheric Pressure: 1004 mbar

6.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JB).
Pre-scan	01	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JB).
Pre-scan	02	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JB).
Final test	06	Test the EUT in microwave mode with maximum power (Model D100D50ASLRIII-JT).
Pre-scan	07	Test the EUT in microwave mode with middle power (Model D100D50ASLRIII-JT).
Pre-scan	08	Test the EUT in microwave mode with lowest power (Model D100D50ASLRIII-JT).

6.7.3 Measurement Procedure and Data

Model: D100D50ASLRIII-JB

Maximum measure level (mW/cm2)	Limit (mW/cm2)	Test Result
0.068	1	Pass

Model: D100D50ASLRIII-JT

Maximum measure level (mW/cm2)	Limit (mW/cm2)	Test Result
0.084	1	Pass

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM180400212508

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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2506003480HS

- End of the Report -

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