

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260700033602

Page: 1 of 47

TEST REPORT

Application No.: FYCR2607000336AT
Applicant: Miaolai Co., Ltd.
Address of Applicant: Rm1321, Sanhang Tech Bldg NWPU, No.45 Gaoxin S 9th Rd, Gaoxinqu Comm, Yuehai Subdist,Nanshan District, Shenzhen City Guangdong Province, China
Manufacturer: Miaolai Co., Ltd.
Address of Manufacturer: Rm1321, Sanhang Tech Bldg NWPU, No.45 Gaoxin S 9th Rd, Gaoxinqu Comm, Yuehai Subdist,Nanshan District, Shenzhen City Guangdong Province, China
Equipment Under Test (EUT):
EUT Name: MiaoLab Radar Guard Smart Outlet
Model No.: Xzn005
FCC ID: 2BXCXZN005
Standard(s) : 47 CFR Part 15, Subpart C 15.245
Date of Receipt: 2026-07-21
Date of Test: 2026-08-04 to 2026-08-13
Date of Issue: 2026-08-19

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



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Shenzhen Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-19		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.245	N/A	47 CFR Part 15, Subpart C 15.203	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Emission bandwidth	47 CFR Part 15, Subpart C 15.245	ANSI C63.10-2020+Cor.1-2023 Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Filed strength of fundamental		ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.245	Pass
Radiation Spurious Emission Below 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 9.12 & 9.13	47 CFR Part 15, Subpart C 15.245 & 15.209	Pass
Radiation Spurious Emission Above 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 9.12 & 9.13	47 CFR Part 15, Subpart C 15.209	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020+Cor.1-2023 Section 6.10	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass



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4 General Information

4.1 Details of E.U.T.

Power Supply:	Input: 125V, 60Hz
Operation Frequency:	10500MHz to 10550MHz
Modulation Type:	FMCW
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi

Remark:The information in this section is provided by the applicant or manufacturer, CCS 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.
--	--	--	--

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 4.7\text{dB}$
Radiated Spurious Emissions Below 1GHz	$\pm 5.7\text{dB}$
Radiated Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (18-40GHz)
Maximum Conducted Output Power	2.4G: $\pm 0.80\text{dB}$; 5G: $\pm 0.43\text{dB}$
20dB Bandwidth	2.4G: $\pm 0.34\%$; 5G: $\pm 0.27\%$
Carrier Frequencies Separation	$\pm 5.4 \times 10^{-8}$
Dwell Time	$\pm 0.28\%$
Conducted Band Edges Measurement	$\pm 2.7\text{dB}$
Conducted Spurious Emissions	$\pm 2.7\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

None

4.6 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/8/28
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/03	2027/7/02
Pre-amplifier	HP	8447D	SEM005-02	2026/7/07	2027/7/06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025/10/13	2028/10/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-24	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM033-02	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Coaxial Cable	CCS	N/A	SEM035-03	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026/2/3	2027/2/2
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2026/2/4	2027/2/3
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2026/2/5	2027/2/4
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2026/2/3	2027/2/2



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	DUMAI	DYM3	SEM002-24	2026/7/10	2027/7/9



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

FCC 47 CFR Part 15C Section 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Integrated Patch Antenna and no consideration of replacement. The best gain of EUT is 3dBi.

Antenna location: Refer to EUT Photos.



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.9.2
 Test Engineer: Ian Li

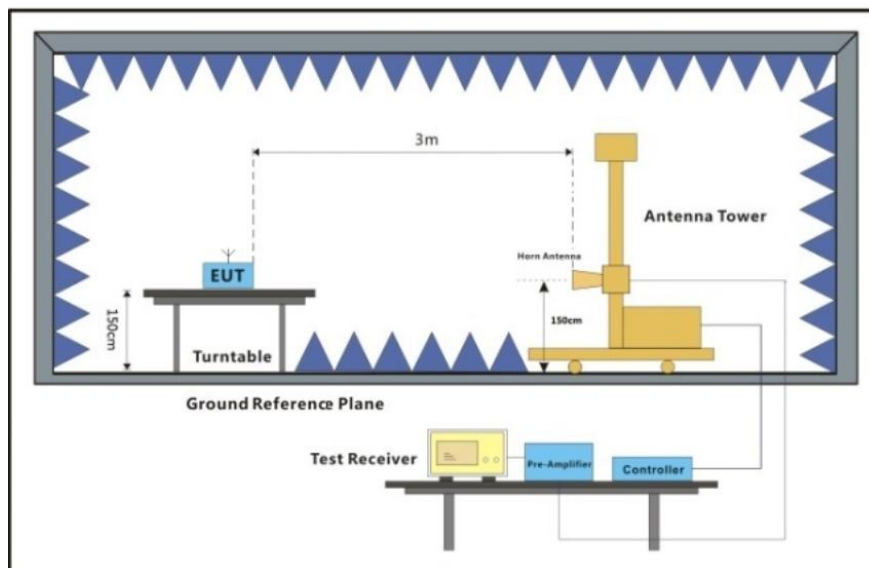
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 25 °C Humidity: 50.4 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

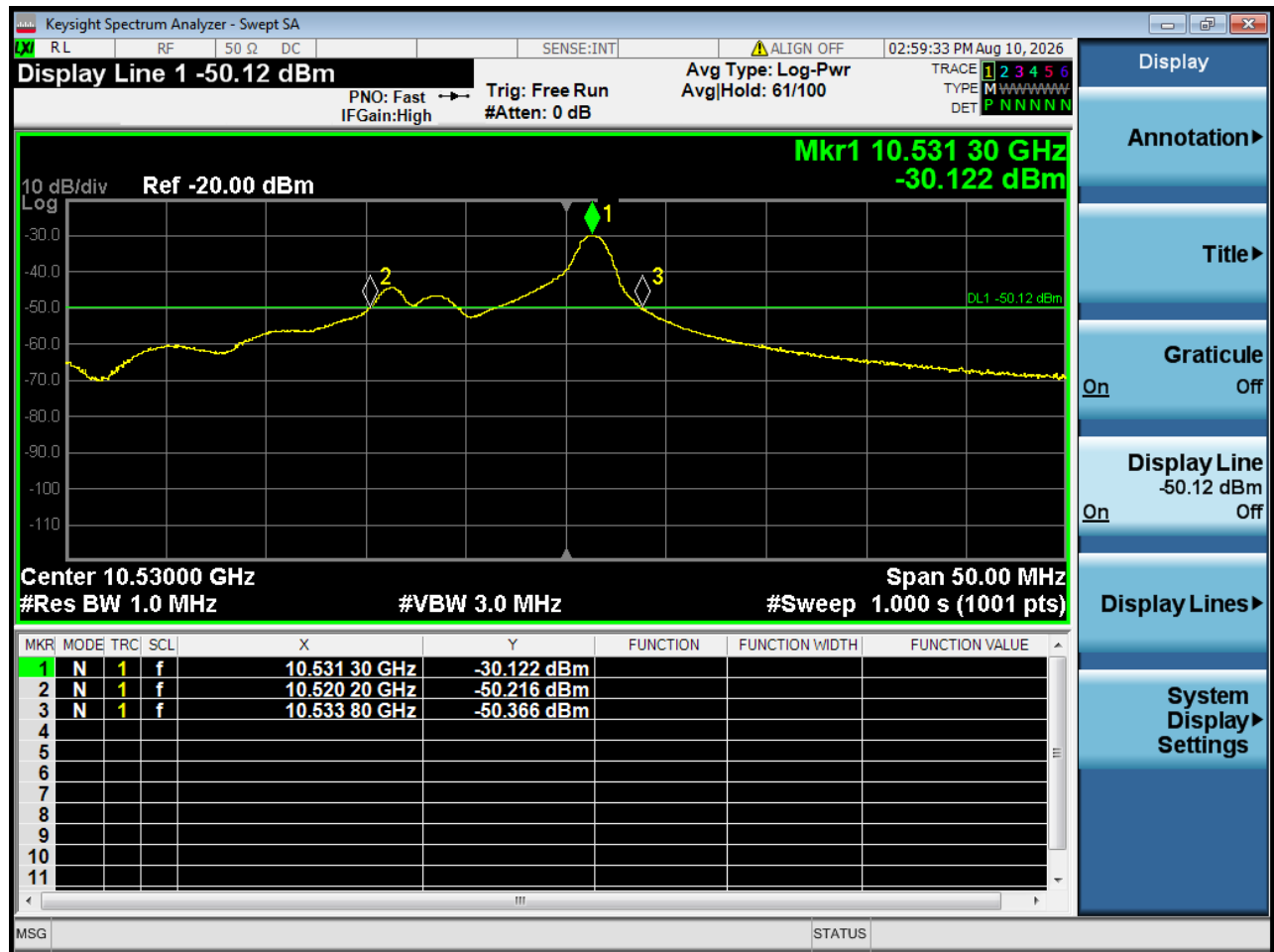
- 1) Place the EUT on the table and set it in the transmitting mode
- 2) SA set RBW=1%~5% OBW, VBW=RBW and Detector=Peak
- 3) Measure and record the result of 20dB bandwidth

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Low Frequency (GHz)	Limit (GHz)	High Frequency (GHz)	Limit (GHz)	20db Bandwidth(MHz)	Result
10.52020	10.5	10.53380	10.550	13.6	Pass



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7.2 Field Strength of Fundamental

Test Requirement 47 CFR Part 15, Subpart C 15.245
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.6 & 7.8.8
 ANSI C63.10-2020+Cor.1-2023 Section 9.12 & 9.13

Limit:

Test Engineer: Rex Liu

FCC according to §15.245(b).

(1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902-928	500	1.6
2435-2465	500	1.6
5785-5815	500	1.6
10500-10550	2500	25.0
24075-24175	2500	25.0

* Field strength limits are specified at a distance of 3 meters.

Fundamental Limit Conversion		
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Peak (dBuV/m) at 3M
2500	127.9588	147.9588

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 49 % RH Atmospheric Pressure: 1000 mbar



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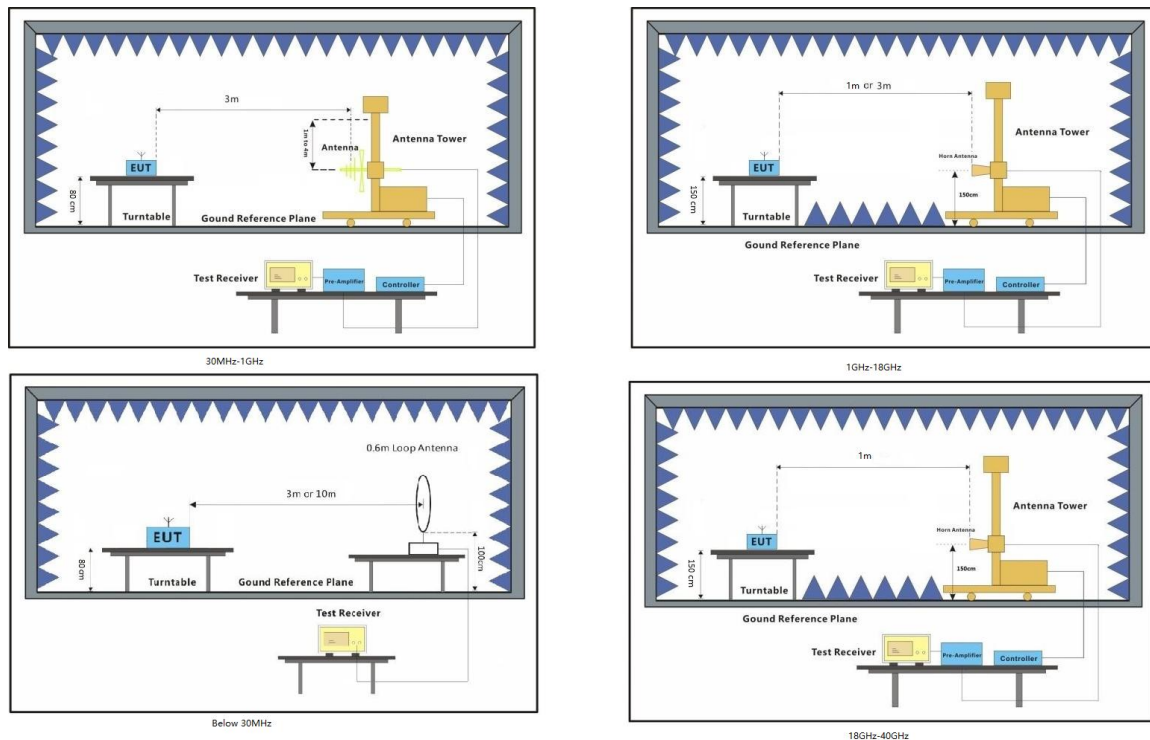
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7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

For 1-18GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.15 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

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

2. Scan from 1GHz to 10GHz, the points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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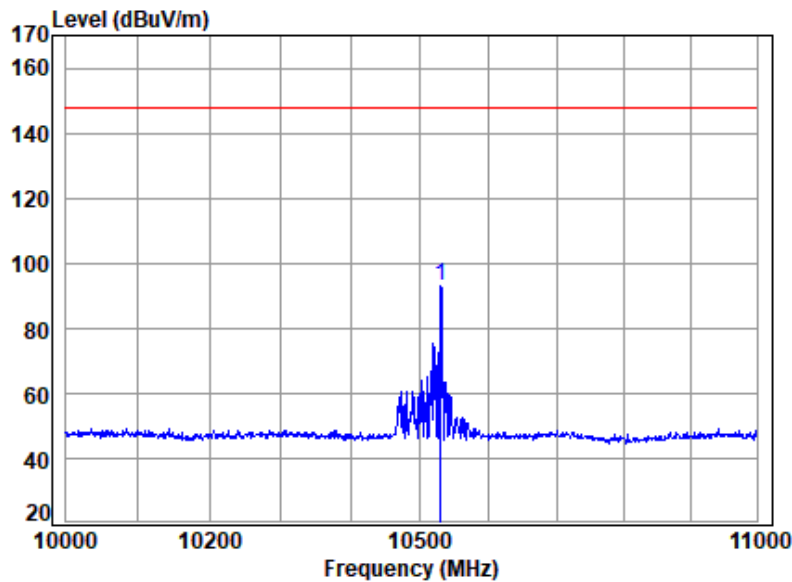
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Field Strength of Fundamental

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No : 00336AT

Mode : 10500 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp10530.160	11.51	38.50	53.83	96.87	93.05	147.96	-54.91	Peak	0.00



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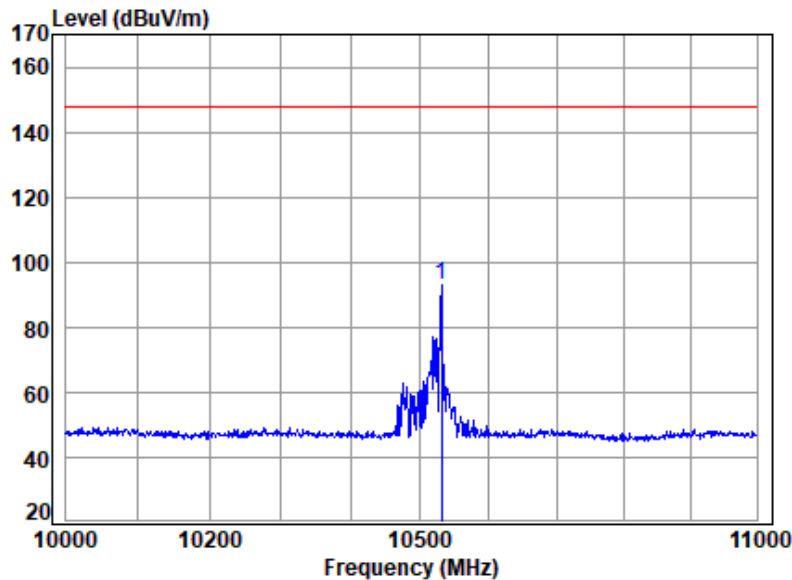
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No : 00336AT

Mode : 10500 Field strength

Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp10531.160	11.51	38.50	53.83	96.80	92.98	147.96	-54.98	Peak	0.00



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7.3 Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C Section 15.209 & 15.245

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.12 & 9.13

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 47.6 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

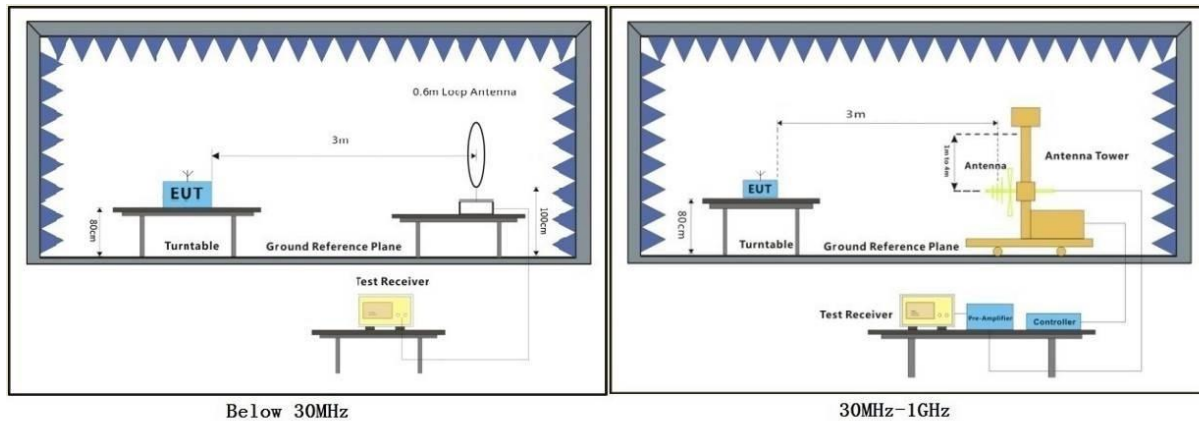


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7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added for the frequency below 30MHz once a closer distance used.

Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3 meter test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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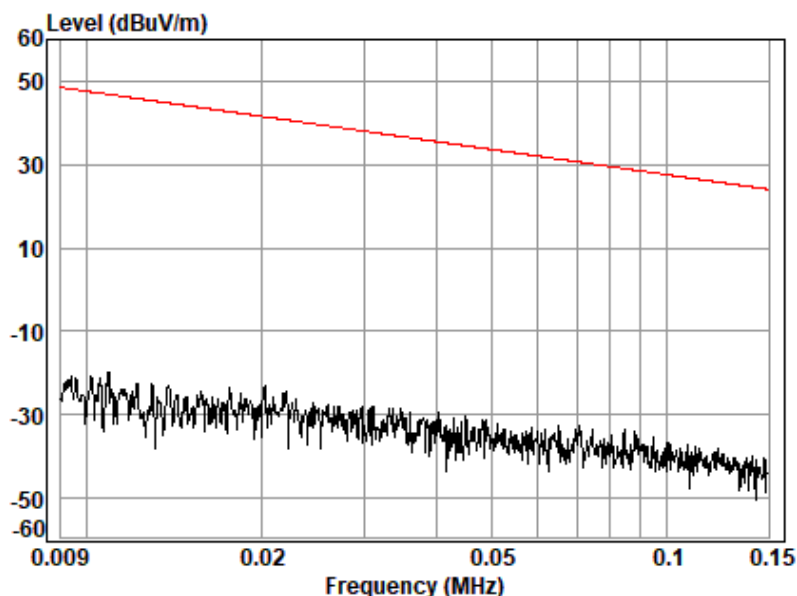
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Test Mode: 00



Site : chamber
Condition: 3m
Job No. : 00336AT
Test Mode: 00
 : coaxial



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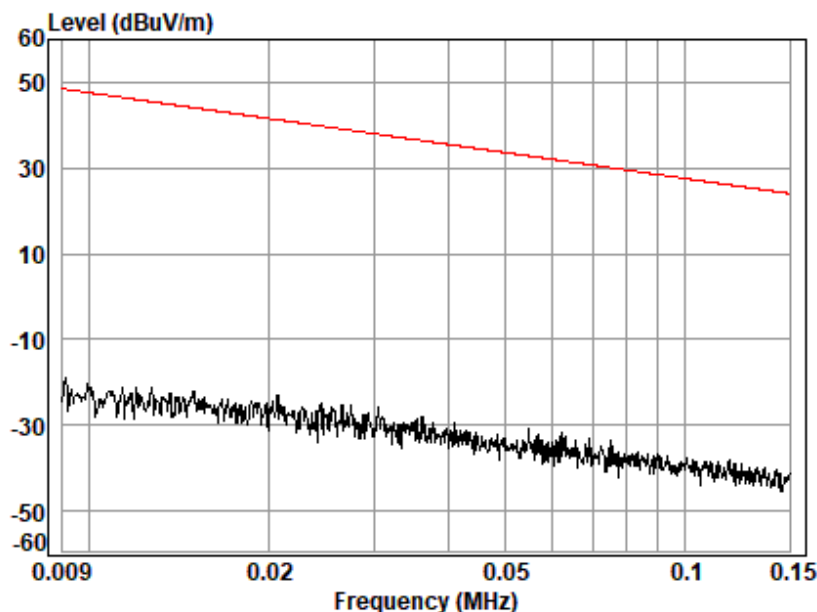
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Test Mode: 00



Site : chamber
Condition: 3m
Job No. : 00336AT
Test Mode: 00
: coplanar



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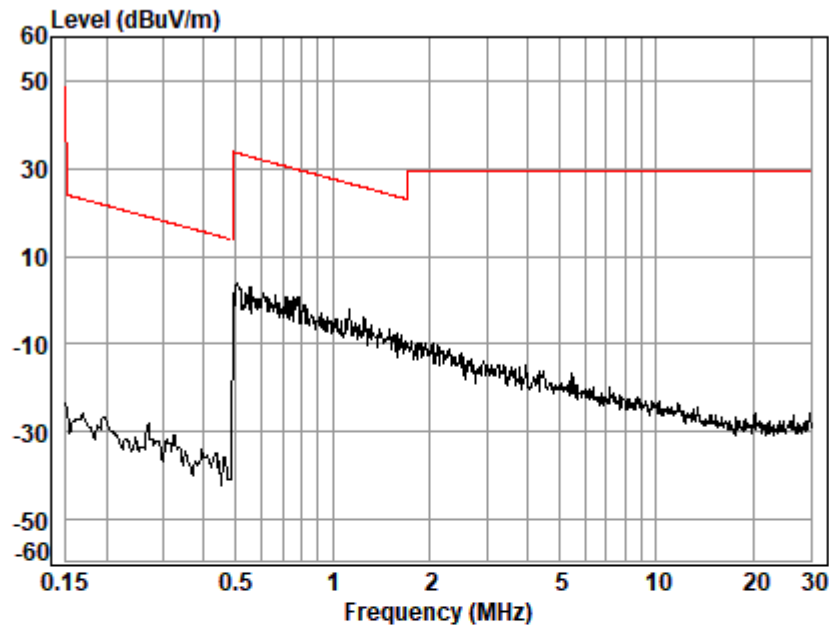
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Test Mode: 00



Site : chamber
Condition: 3m
Job No. : 00336AT
Test Mode: 00
: coaxial



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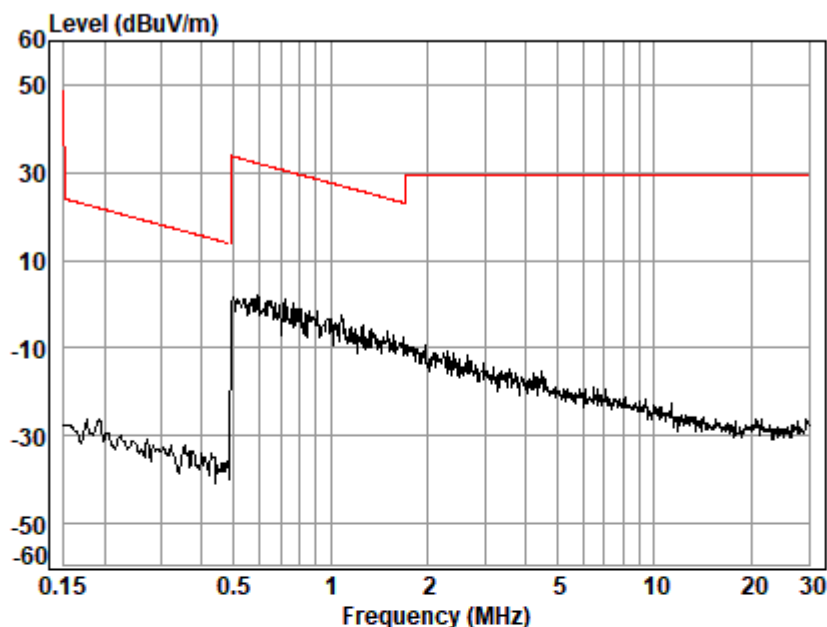
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Test Mode: 00



Site : chamber
Condition: 3m
Job No. : 00336AT
Test Mode: 00
: coplanar



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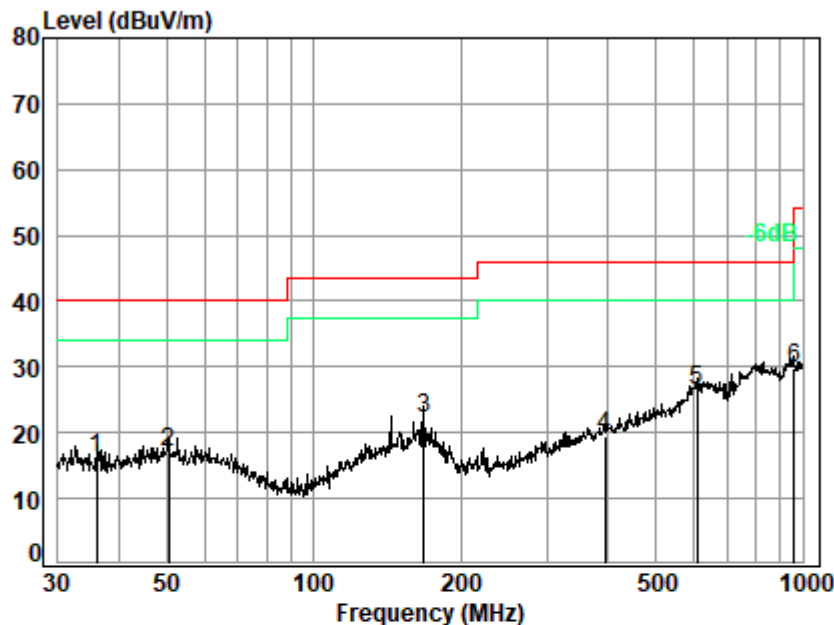
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Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00336AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB		dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.00	0.51	16.87	26.12	24.94	16.20	40.00	-23.80	QP
2	50.41	0.78	17.78	26.10	24.69	17.15	40.00	-22.85	QP
3	167.82	0.97	16.91	25.57	29.77	22.08	43.50	-21.42	QP
4	394.85	1.55	19.64	25.95	24.15	19.39	46.00	-26.61	QP
5	607.79	3.40	24.21	26.56	25.35	26.40	46.00	-19.60	QP
6	958.79	2.87	28.04	26.34	25.09	29.66	46.00	-16.34	QP



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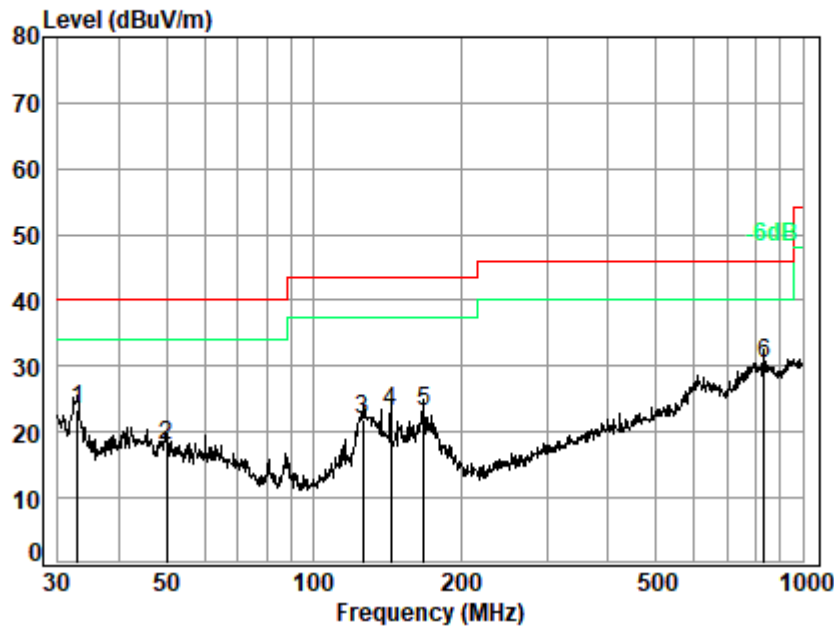
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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00336AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.98	0.62	16.65	26.13	32.36	23.50	40.00	-16.50	QP
2	50.06	0.81	17.78	26.10	25.36	17.85	40.00	-22.15	QP
3	125.89	1.41	15.68	25.75	30.59	21.93	43.50	-21.57	QP
4	143.83	1.35	17.13	25.67	30.22	23.03	43.50	-20.47	QP
5	167.82	0.97	16.91	25.57	30.71	23.02	43.50	-20.48	QP
6	833.32	3.14	26.73	26.46	27.00	30.41	46.00	-15.59	QP



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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.245
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.12 & 9.13
 Measurement Distance: 3m

Limit:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209(follow the table), whichever is the lesser attenuation.

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Frequency	Field Strength microvolts/m at specific distance	
	Transmitters	Receivers
18-40GHz	63.5dBuV/m@1m	63.5dBuV/m@1m
Above 40GHz	80.00dBuV/m @0.15m	80.00dBuV/m @0.15m

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation



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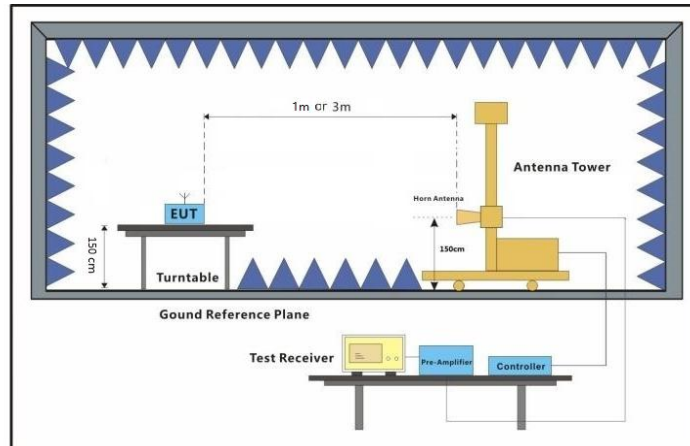
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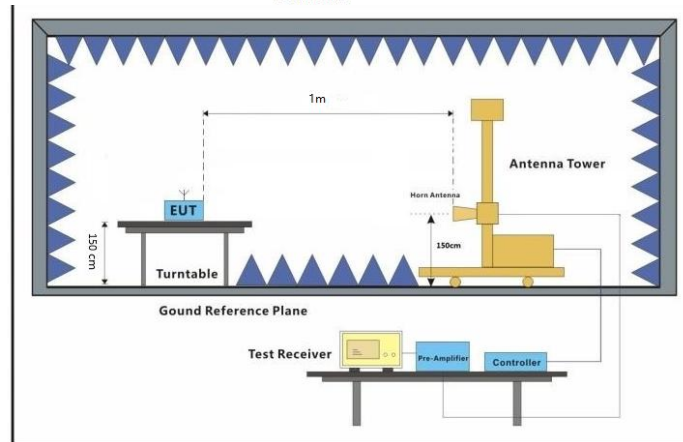
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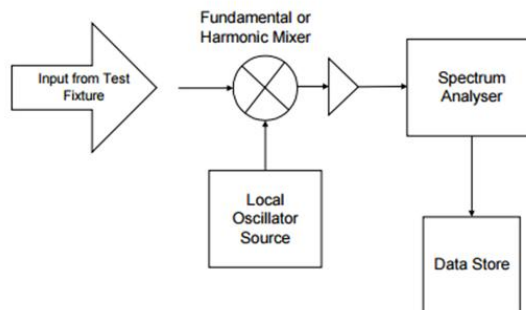
7.4.3 Test Setup Diagram



1GHz-18GHz



18GHz-40GHz



Above 40GHz



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7.4.4 Measurement Procedure and Data

a. For 1-18GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.15 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

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

2. Scan from 1GHz to 10GHz, the points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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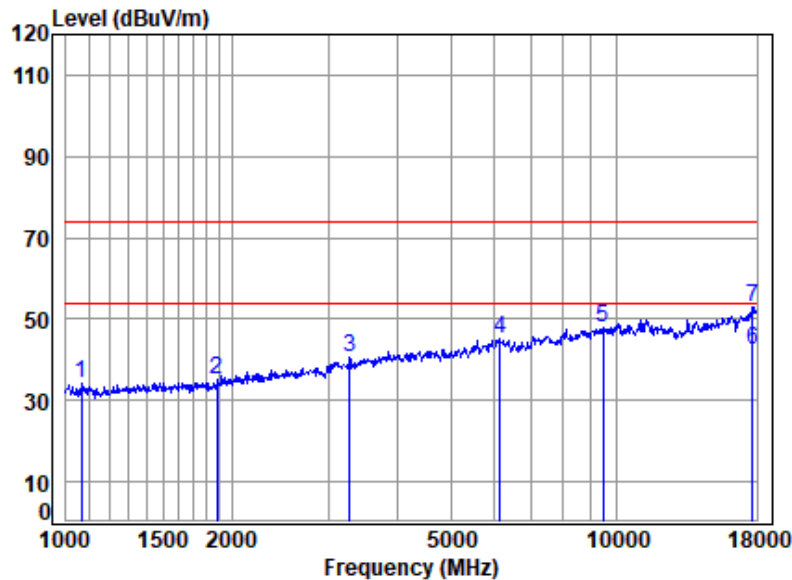
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1GHz-18GHz

Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No : 00336AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1065.653	3.08	25.23	53.23	58.98	34.06	74.00	-39.94	Peak	0.00
2	1877.800	6.39	25.69	53.47	56.41	35.02	74.00	-38.98	Peak	0.00
3	3270.858	7.47	29.33	52.90	56.55	40.45	74.00	-33.55	Peak	0.00
4	6142.019	8.38	34.00	53.28	56.12	45.22	74.00	-28.78	Peak	0.00
5	9475.497	11.92	38.50	54.00	51.40	47.82	74.00	-26.18	Peak	0.00
6	pp17690.530	14.45	40.06	51.56	39.55	42.50	54.00	-11.50	Average	0.00
7	pk17690.530	14.45	40.06	51.56	50.00	52.95	74.00	-21.05	Peak	0.00



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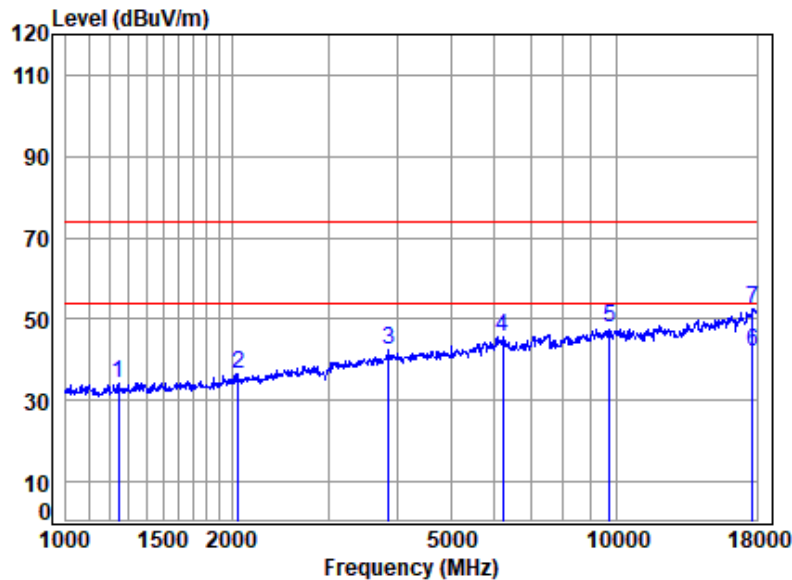
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No : 00336AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1245.663	3.80	25.31	53.30	58.55	34.36	74.00	-39.64	Peak	0.00
2	2059.767	6.91	26.96	53.46	56.03	36.44	74.00	-37.56	Peak	0.00
3	3856.668	7.87	30.26	52.90	57.36	42.59	74.00	-31.41	Peak	0.00
4	6213.441	8.45	34.41	53.28	56.18	45.76	74.00	-28.24	Peak	0.00
5	9725.221	11.91	38.20	54.05	51.88	47.94	74.00	-26.06	Peak	0.00
6	pp17690.530	14.45	40.06	51.56	39.09	42.04	54.00	-11.96	Average	0.00
7	pk17690.530	14.45	40.06	51.56	49.74	52.69	74.00	-21.31	Peak	0.00



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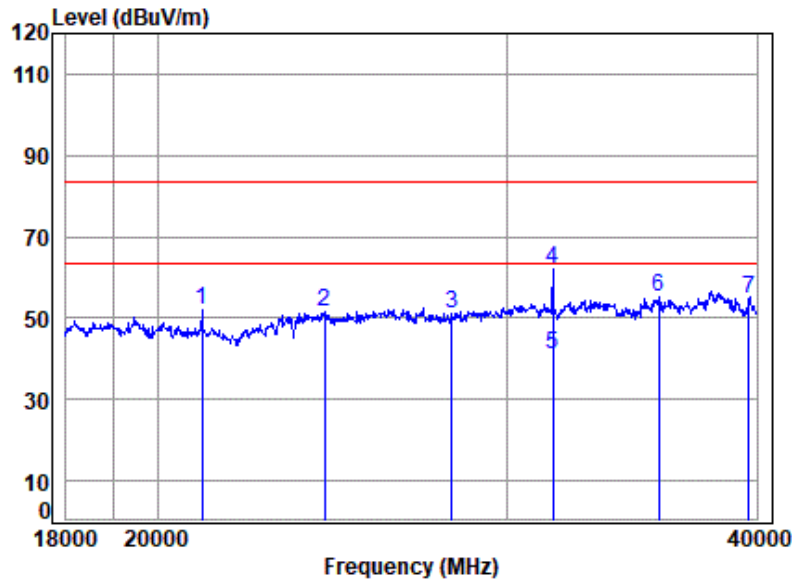
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18GHz-40GHz

Test Mode: 00; Polarity: Horizontal



Condition: 1m HORIZONTAL

Job No : 00336AT

Mode : RSE TX

	Cable	Ant	Preamp	Read		Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
21066.370	8.88	37.49	47.40	53.17	52.14	83.54	-31.40	Peak	0.00
24264.480	9.67	39.29	44.97	47.35	51.34	83.54	-32.20	Peak	0.00
28127.210	10.70	39.05	45.20	46.50	51.05	83.54	-32.49	Peak	0.00
p31605.140	11.20	40.26	44.88	55.31	61.89	83.54	-21.65	Peak	0.00
v31605.140	11.20	40.26	44.88	34.67	41.25	63.54	-22.29	Average	0.00
35712.160	12.26	42.32	47.60	48.07	55.05	83.54	-28.49	Peak	0.00
39650.200	12.33	43.12	47.69	47.03	54.79	83.54	-28.75	Peak	0.00



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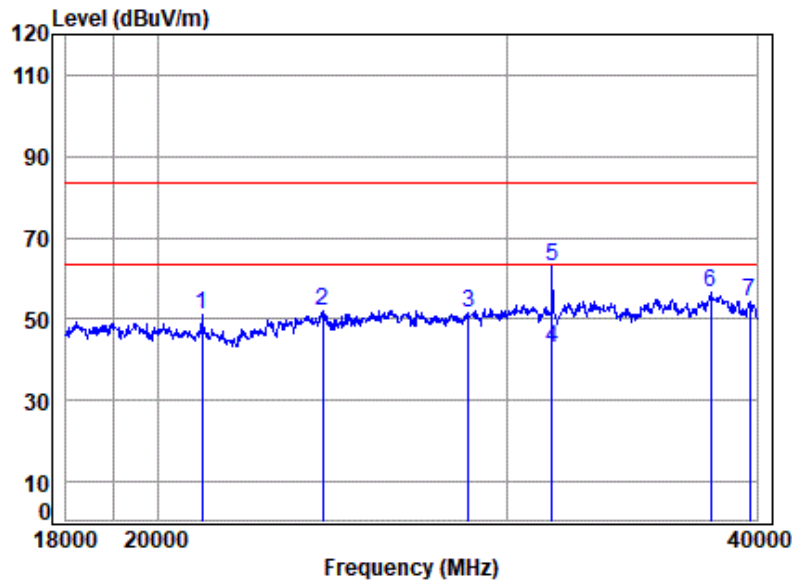
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Test Mode: 00; Polarity: Vertical



Condition: 1m VERTICAL

Job No : 00336AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	21066.370	8.88	37.49	47.40	51.97	50.94	83.54	-32.60	Peak	0.00
2	24225.760	9.61	39.30	44.99	48.08	52.00	83.54	-31.54	Peak	0.00
3	28648.560	11.03	39.20	45.20	46.54	51.57	83.54	-31.97	Peak	0.00
4	av31579.910	11.20	40.27	44.88	36.28	42.87	63.54	-20.67	Average	0.00
5	pp31579.910	11.20	40.27	44.88	56.39	62.98	83.54	-20.56	Peak	0.00
6	37916.240	12.82	42.47	46.74	47.98	56.53	83.54	-27.01	Peak	0.00
7	39681.870	12.33	43.08	47.71	46.54	54.24	83.54	-29.30	Peak	0.00



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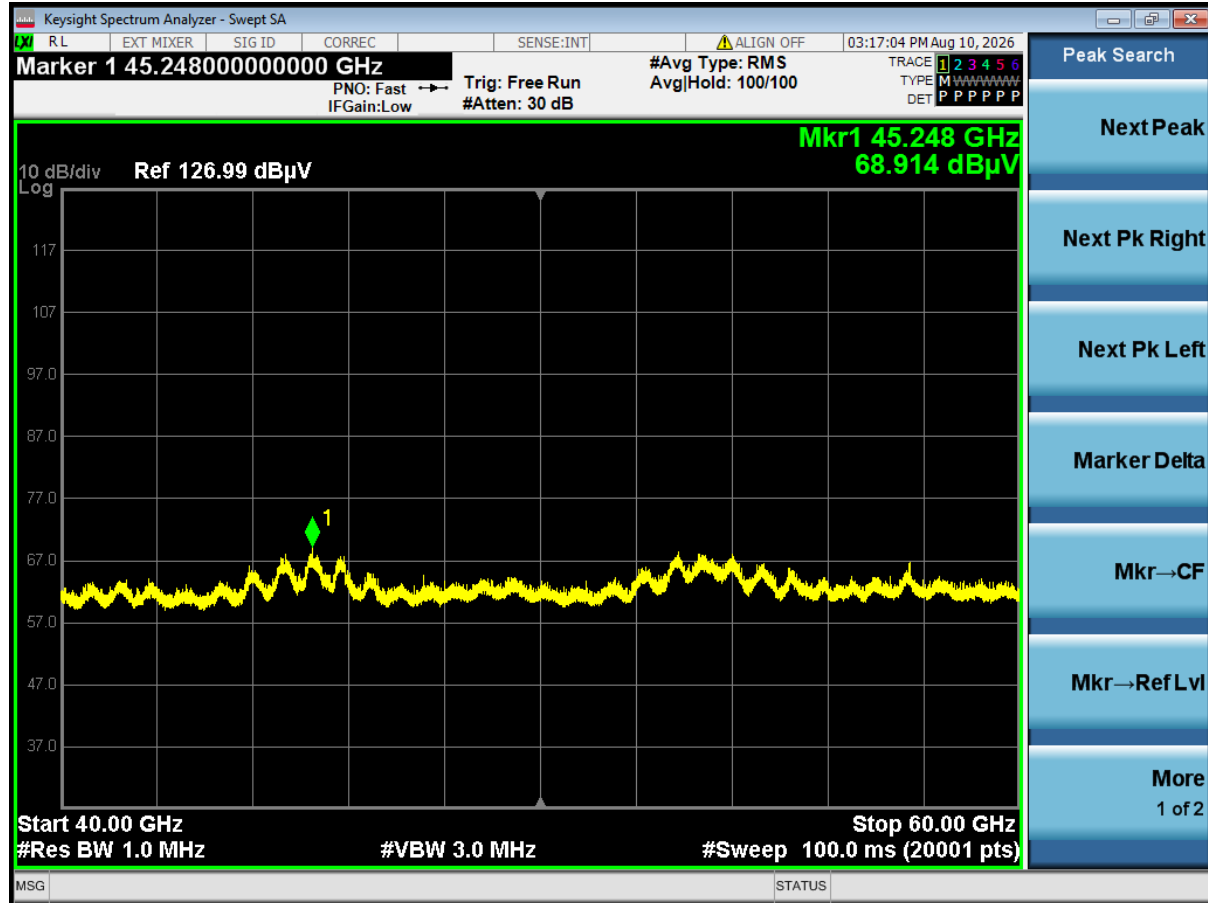
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40GHz-60GHz

Test Mode: 00; Polarity: Horizontal



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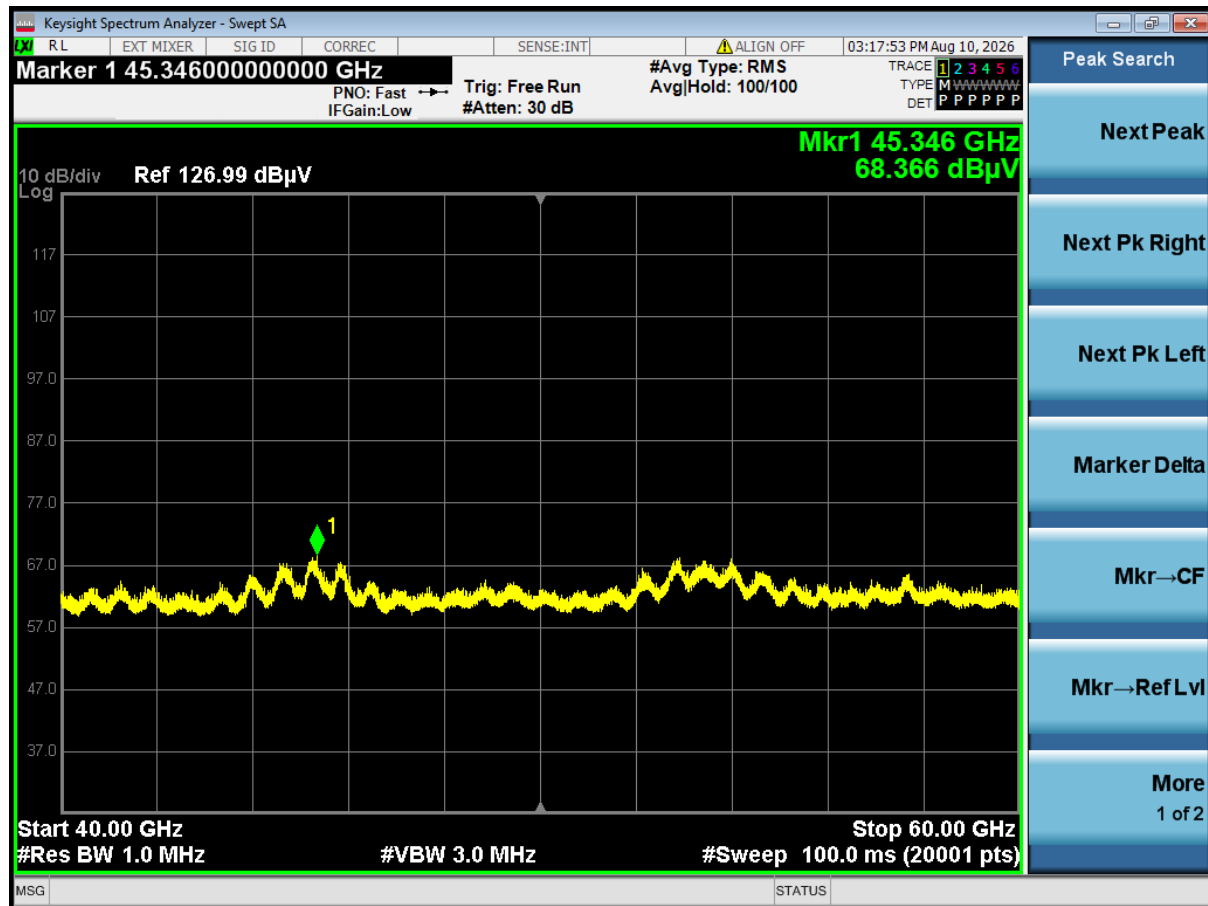
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Test Mode: 00; Polarity: Vertical



Frequency range	Spurious Emission			AV Limit (dBuV/m)	Result
	Polarization	Frequency(GHz)	Peak Value (dBuV/m)		
40GHz-60GHz	Horizontal	45.248	68.914	80	PASS
	Vertical	45.346	68.366	80	PASS



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7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.245
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 9.9
Test Engineer: Rex Liu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

1. Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7 GHz, as specified in §15.205, shall not exceed the field strength limits shown in §15.209

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 49 % RH Atmospheric Pressure: 1000 mbar



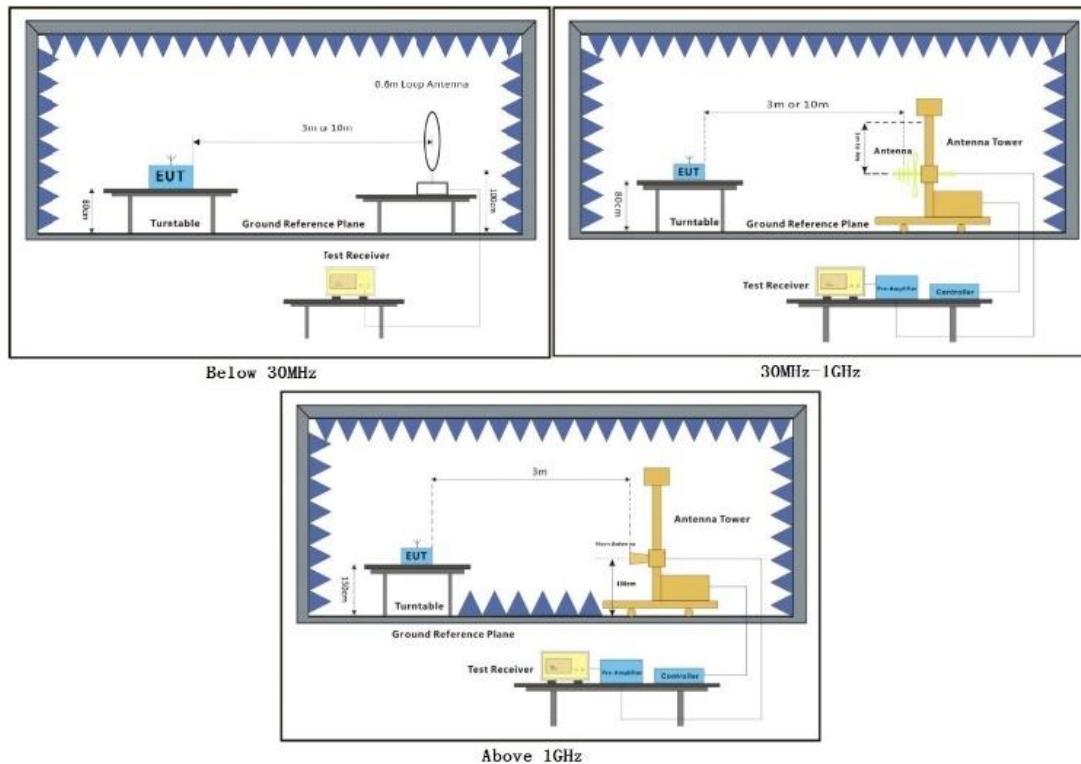
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.5.3 Test Setup Diagram



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7.5.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $<98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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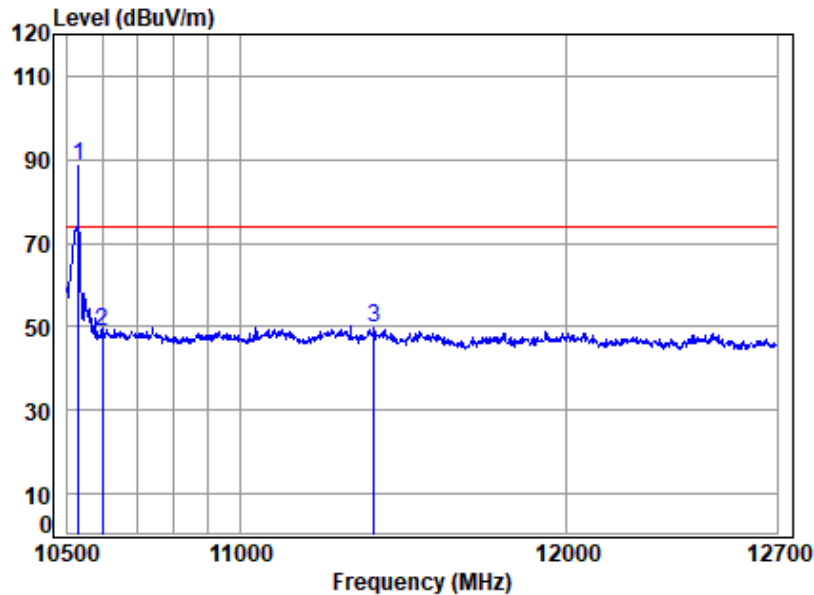
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Test Mode: 00; Polarity: Horizontal - Peak



Condition: 3m HORIZONTAL

Job No : 00336AT

Mode : 10500 Band edge

	Cable	Ant	Preamp	Read		Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp10530.000	11.51	38.50	53.83	92.28	88.46	74.00	14.46	Peak	0.00
2 10600.000	11.45	38.50	53.79	52.48	48.64	74.00	-25.36	Peak	0.00
3 11399.310	12.04	39.30	53.80	52.23	49.77	74.00	-24.23	Peak	0.00



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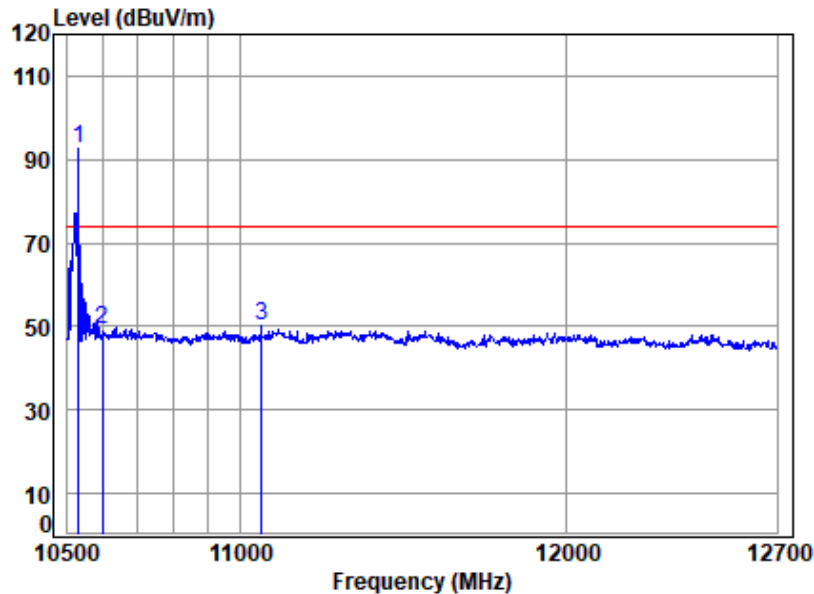
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Test Mode: 00; Polarity: Vertical- Peak



Condition: 3m VERTICAL

Job No : 00336AT

Mode : 10500 Band edge

		Cable	Ant	Preamp	Read	Limit	Over		Aux
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	pp10532.010	11.51	38.50	53.83	96.41	92.59	74.00	18.59 Peak	0.00
2	10600.000	11.45	38.50	53.79	52.96	49.12	74.00	-24.88 Peak	0.00
3	11059.690	11.29	39.04	53.63	53.67	50.37	74.00	-23.63 Peak	0.00



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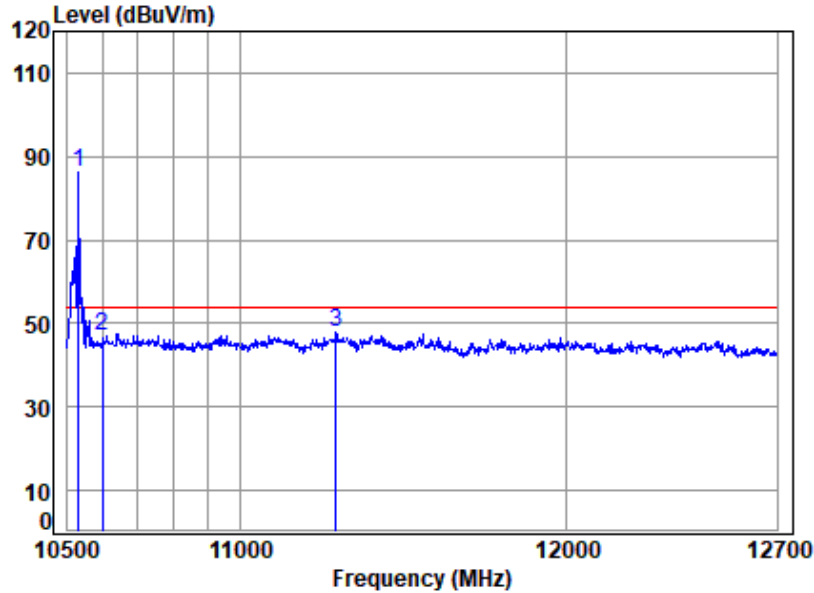
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Test Mode: 00; Polarity: Horizontal - AVG



Condition: 3m HORIZONTAL

Job No : 00336AT

Mode : 10500 Band edge

	Cable	Ant	Preamp	Read		Limit	Over		Aux
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp10530.000	11.51	38.50	53.83	90.02	86.20	54.00	32.20	Average	0.00
2 10600.000	11.45	38.50	53.79	50.74	46.90	54.00	-7.10	Average	0.00
3 11284.960	11.79	39.03	53.75	50.63	47.70	54.00	-6.30	Average	0.00



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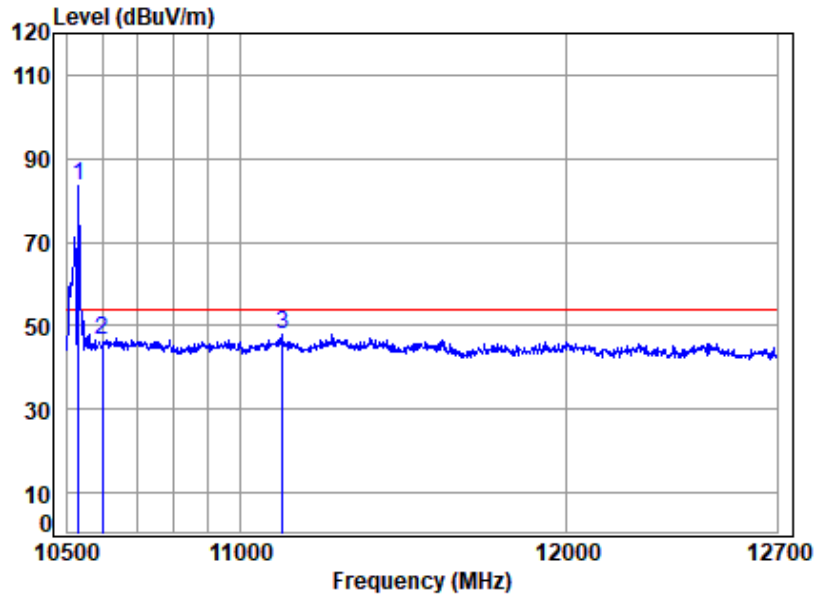
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Test Mode: 00; Polarity: Vertical - AVG



Condition: 3m VERTICAL

Job No : 00336AT

Mode : 10500 Band edge

	Cable	Ant	Preamp	Read	Limit	Over	Aux
Freq	Loss	Factor	Factor	Level	Line	Limit	Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp10532.010	11.51	38.50	53.83	87.26	83.44	54.00	29.44 Average
2 10600.000	11.45	38.50	53.79	50.59	46.75	54.00	-7.25 Average
3 11122.990	11.43	39.20	53.66	50.77	47.74	54.00	-6.26 Average



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7.6 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2
 Test Engineer: Fly Yan

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 47.9 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

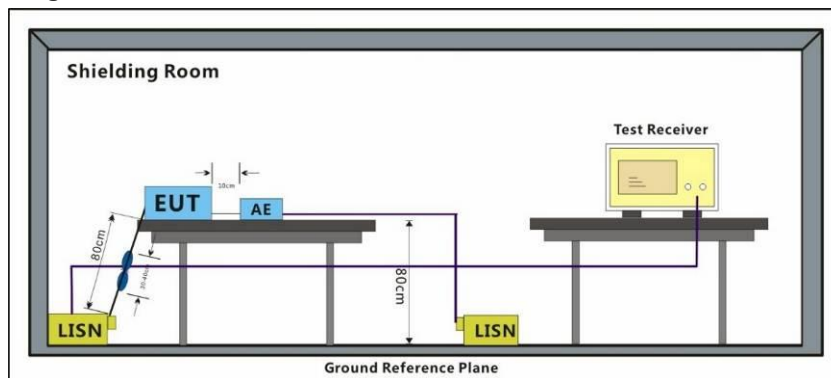
Pre-scan / Final test	Mode Code	Description
Final test	00	Continuous Tx Mode: Keep the EUT Transmitting with Modulation



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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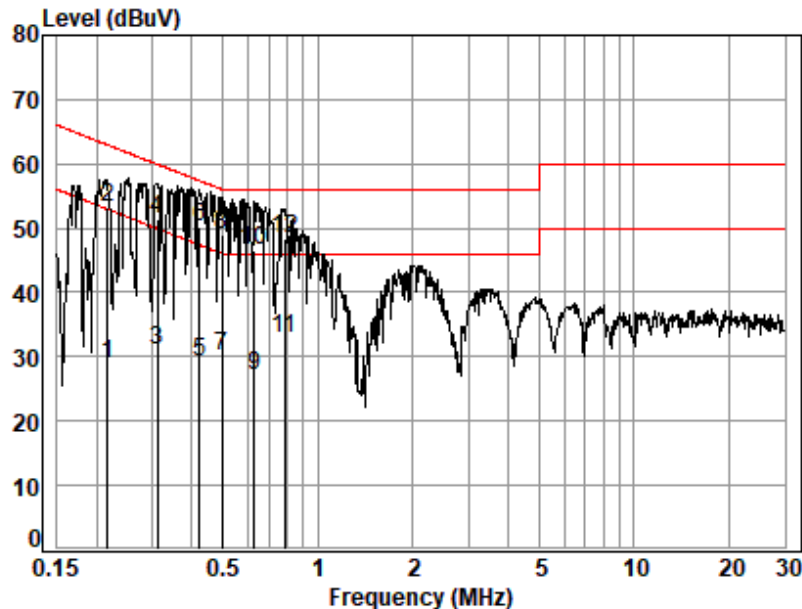
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Test Mode: 01; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00336AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2162	0.02	9.65	19.38	29.05	52.96	-23.91	Average
2	0.2162	0.02	9.65	43.66	53.33	62.96	-9.63	QP
3	0.3116	0.04	9.47	21.40	30.91	49.93	-19.02	Average
4	0.3116	0.04	9.47	41.92	51.43	59.93	-8.50	QP
5	0.4215	0.05	9.81	19.28	29.14	47.42	-18.28	Average
6	0.4215	0.05	9.81	40.43	50.29	57.42	-7.13	QP
7	0.4967	0.06	9.81	20.22	30.09	46.05	-15.96	Average
8	0.4967	0.06	9.81	39.21	49.08	56.05	-6.97	QP
9	0.6305	0.05	9.82	17.26	27.13	46.00	-18.87	Average
10	0.6305	0.05	9.82	36.55	46.42	56.00	-9.58	QP
11	0.7876	0.07	9.81	22.89	32.77	46.00	-13.23	Average
12	0.7876	0.07	9.81	38.60	48.48	56.00	-7.52	QP



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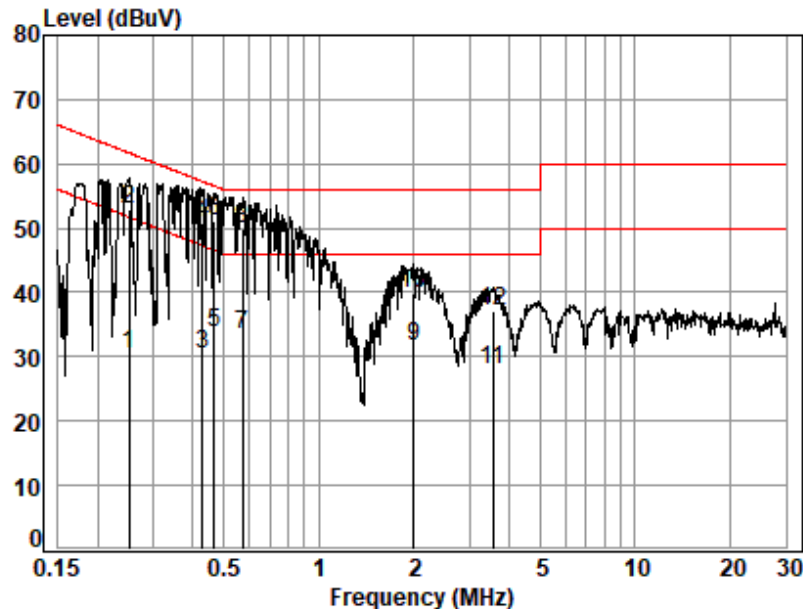
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Test Mode: 01; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00336AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2521	0.03	9.62	20.86	30.51	51.69	-21.18	Average
2	0.2521	0.03	9.62	43.40	53.05	61.69	-8.64	QP
3	0.4282	0.05	9.76	20.55	30.36	47.29	-16.93	Average
4	0.4282	0.05	9.76	41.11	50.92	57.29	-6.37	QP
5	0.4686	0.06	9.74	23.82	33.62	46.54	-12.92	Average
6	0.4686	0.06	9.74	41.19	50.99	56.54	-5.55	QP
7	0.5762	0.05	9.73	23.61	33.39	46.00	-12.61	Average
8	0.5762	0.05	9.73	40.19	49.97	56.00	-6.03	QP
9	2.0012	0.04	9.84	21.65	31.53	46.00	-14.47	Average
10	2.0012	0.04	9.84	30.07	39.95	56.00	-16.05	QP
11	3.5466	0.05	9.75	18.20	28.00	46.00	-18.00	Average
12	3.5466	0.05	9.75	27.34	37.14	56.00	-18.86	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2607000336AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for FYCR2607000336AT

- End of the Report -



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