

FCC Test Report

Report No. : 1811C60019316203

Applicant : Ten Pao Industrial Co.,Ltd.

Address : Room 15,6/F.,Kwong Sang Hong Centre,
151-153 Hoi Bun Road, Kwun Tong,
Kowloon,H.K.

Product Name : GB1800 Portable Power Station

Report Date : 2026-08-31

Shenzhen Anbotek Compliance Laboratory Limited



Contents

1. General Information	5
1.1. Client Information	5
1.2. Description of Device (EUT)	5
1.3. Auxiliary Equipment Used During Test	5
1.4. Description of Test Modes	6
1.5. Description Of Test Setup	7
1.6. Test Equipment List	8
1.7. Measurement Uncertainty	9
1.8. Description of Test Facility	9
1.9. Disclaimer	9
2. Summary of Test Results	10
3. Conducted Emission Test	11
3.1. Test Standard and Limit	11
3.2. Test Setup	11
3.3. Test Procedure	11
3.4. Test Data	11
4. Radiation Spurious Emission Test	14
4.1. Test Standard and Limit	14
4.2. Test Setup	14
4.3. Test Procedure	15
4.4. Test Data	15
5. 20dB Occupy Bandwidth Test	20
5.1. Test Standard and Limit	20
5.2. Test Setup	20
5.3. Test Procedure	20
5.4. Test Data	20
6. Antenna Requirement	22
6.1. Test Standard and Requirement	22
6.2. Antenna Connected Construction	22
APPENDIX I -- TEST SETUP PHOTOGRAPH	23
APPENDIX II -- EXTERNAL PHOTOGRAPH	23
APPENDIX III -- INTERNAL PHOTOGRAPH	23

TEST REPORT

Applicant : Ten Pao Industrial Co.,Ltd.
Manufacturer : Ten Pao Industrial Co.,Ltd.
Product Name : GB1800 Portable Power Station
Model No. : G0091250,G0080251,G0090250
Trade Mark : 
Rated Capacity:51.2V/20Ah 1024Wh
AC Input: 120Vac 60Hz 7.1A 850W Max
AC Input (Pass-Through Charging Mode): 120Vac 60Hz15A 1800WMax
DC/Solar Input: 11-30Vdc 18.8A Max,440W Max
AC Output*4: 120Vac 60Hz 15A 1800W
Surge Output:3600VA
AC Output ParallelPorts: 120Vac 60Hz 15A 1800W
Rating(s) : Wireless Charger:15W
Car Port Output*1: 12Vdc 10A
DC 5521 Barrel Port Output*2: 12Vdc 3A
Car Port +DC 5521 Barrel Port Output:12Vdc 10A
USB-A Output 1: 5Vdc 3A 15W
USB-A Output 2: 5Vdc 3A/9Vdc 2A/12Vdc 1.5A 18W
USB-C Output 1: 5Vdc 3A/9Vdc 3A/12Vdc 3A/15Vdc 3A/20Vdc 5A 100W
USB-C Output 2:5Vdc 3A/9Vdc 3A/12Vdc 3A/15Vdc 3A/20Vdc 5A/28Vdc 5A 140W

Test Standard(s) : FCC Part15 Subpart C
Test Method(s) : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
ANSI C63.30-2021

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2026-01-09

Date of Test 2026-01-09 to 2026-08-28

Prepared By

Yuki Long

(Yuki Long)

Approved & Authorized Signer

Jules Guo

(Jules Guo)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2026-08-31

1. General Information

1.1. Client Information

Applicant	:	Ten Pao Industrial Co.,Ltd.
Address	:	Room 15,6/F.,Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon,H.K.
Manufacturer	:	Ten Pao Industrial Co.,Ltd.
Address	:	Room 15,6/F.,Kwong Sang Hong Centre, 151-153 Hoi Bun Road, Kwun Tong, Kowloon,H.K.

1.2. Description of Device (EUT)

Product Name	:	GB1800 Portable Power Station
Model No.	:	G0091250,G0080251,G0090250 (Note: All samples are the same except the model name, so we prepare "G0091250" for test only.)
Trade Mark	:	
Test Power Supply	:	AC 120V/60Hz, DC 51.2V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	111-205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
Remark: 1. All of the RF specification are provided by customer. 2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 3. Only recorded the worst data-Model"G0091250" in the report.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless charging load	Shenzhen Ouju Technology Co., Ltd.	CD2577	/

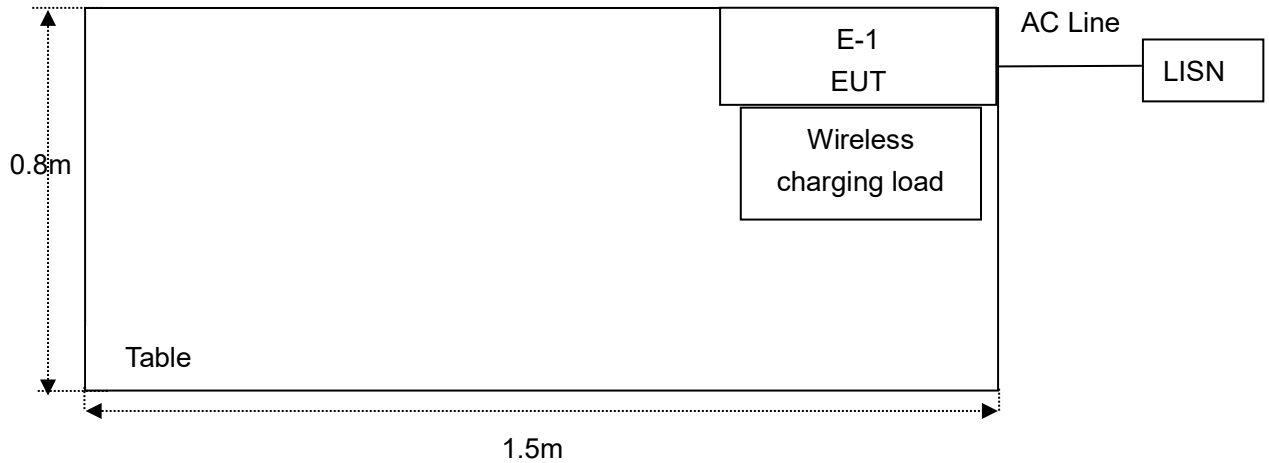
1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

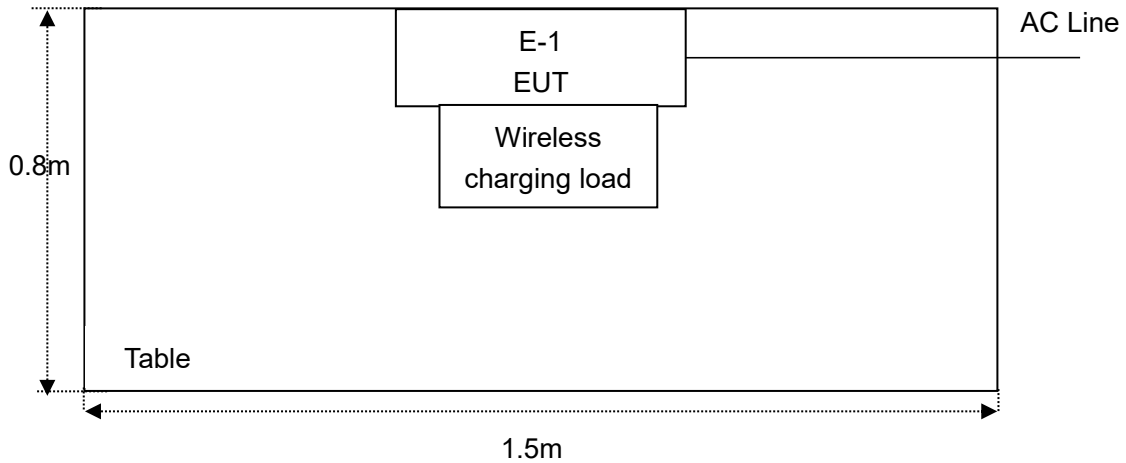
Pretest Modes	Descriptions
TM1	WPT Mode (15W 99% Load)
TM2	WPT Mode (15W 50% Load)
TM3	WPT Mode (15W 1% Load)
TM4	Standby Mode

1.5. Description Of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	2025-09-05	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	2025-12-30	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	2025-12-30	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	2025-12-30	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	2025-09-05	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-10-26	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	2025-09-05	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	2025-12-30	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	2025-09-05	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	2025-12-29	1 Year
15.	Signal Generator	Agilent	E4421B	2025-12-29	1 Year
16.	DC Power Supply	IVYTECH	IV3605	2025-09-05	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	2025-10-10	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-12-29	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	2.8dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.14dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.94dB; Vertical: 4.34dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	PASS
15.205/15.209	Spurious Emission	PASS
15.215(c)	20dB Occupy Bandwidth	PASS

Note: N/A” denotes test is not applicable in this Test Report

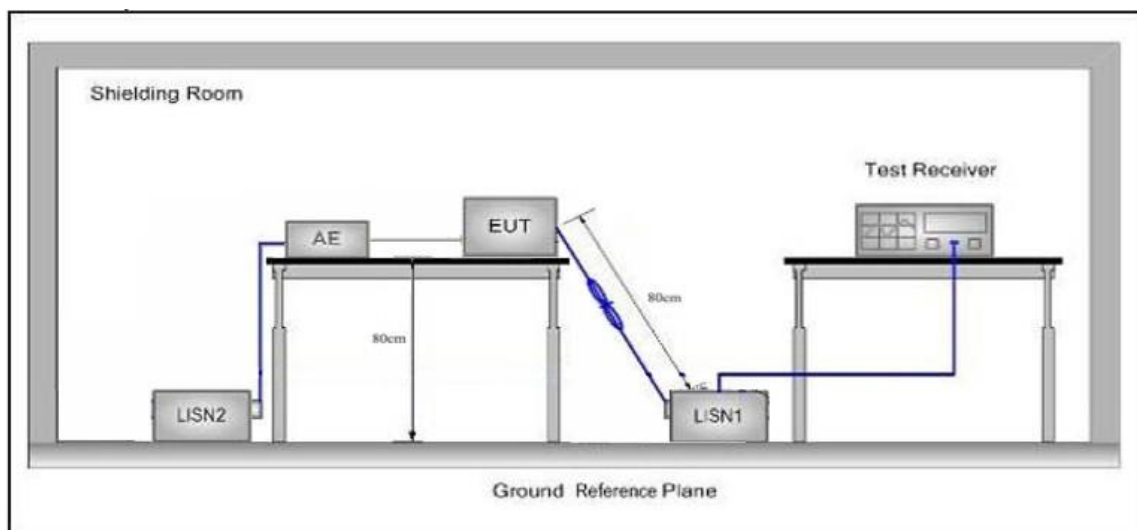
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

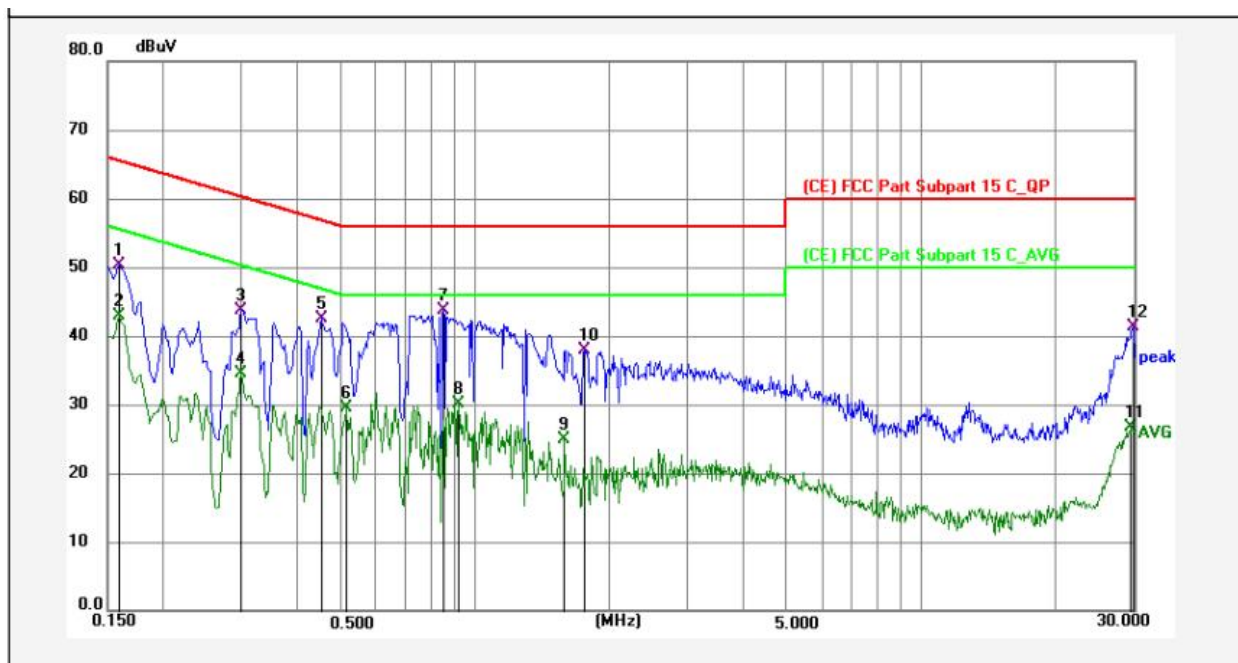
3.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.
Please to see the following pages.

Conducted Emission Test Data

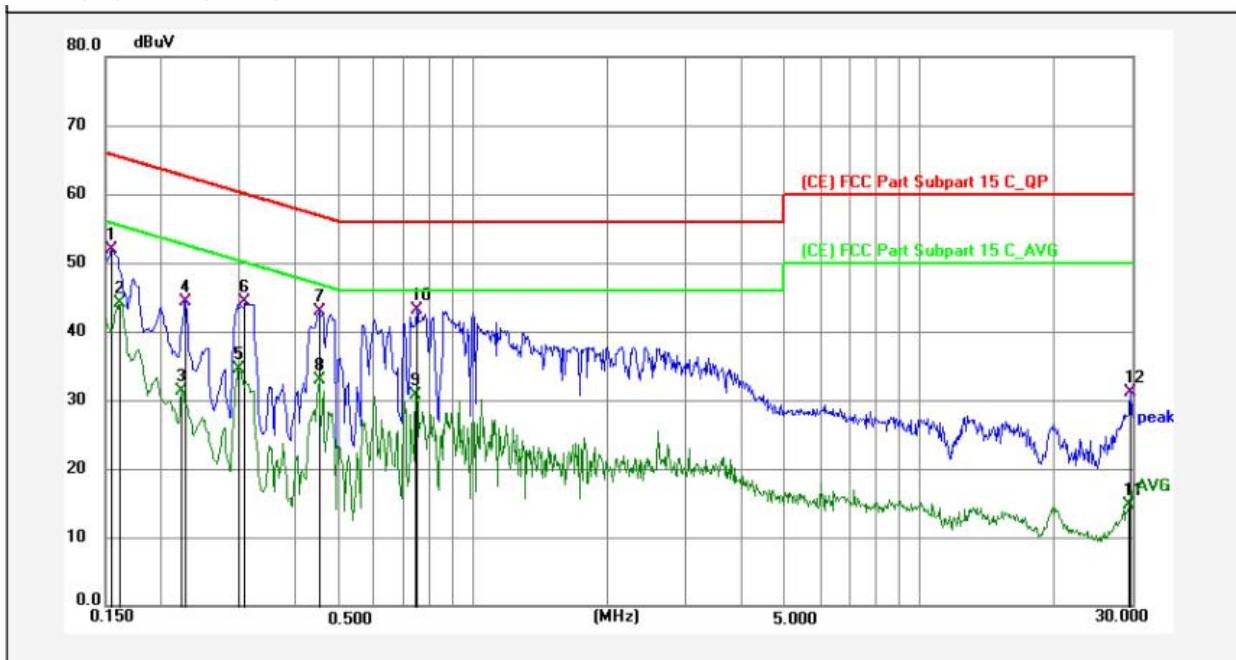
Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 26°C/40%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1590	39.17	11.17	50.34	65.52	-15.18	QP	
2	0.1590	31.66	11.17	42.83	55.52	-12.69	AVG	
3	0.2983	32.42	11.35	43.77	60.29	-16.52	QP	
4	0.2983	23.08	11.35	34.43	50.29	-15.86	AVG	
5	0.4515	31.28	11.32	42.60	56.85	-14.25	QP	
6	0.5151	18.26	11.31	29.57	46.00	-16.43	AVG	
7	0.8480	32.39	11.29	43.68	56.00	-12.32	QP	
8	0.9183	18.81	11.29	30.10	46.00	-15.90	AVG	
9	1.5850	13.55	11.26	24.81	46.00	-21.19	AVG	
10	1.7620	26.55	11.26	37.81	56.00	-18.19	QP	
11	29.5270	15.98	10.67	26.65	50.00	-23.35	AVG	
12	29.8414	30.63	10.58	41.21	60.00	-18.79	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 26°C/40%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1547	40.71	11.15	51.86	65.74	-13.88	QP	
2	0.1621	32.90	11.17	44.07	55.36	-11.29	AVG	
3	0.2220	19.91	11.30	31.21	52.74	-21.53	AVG	
4	0.2267	33.09	11.30	44.39	62.57	-18.18	QP	
5	0.2983	23.18	11.37	34.55	50.29	-15.74	AVG	
6	0.3082	32.86	11.37	44.23	60.02	-15.79	QP	
7	0.4515	31.60	11.32	42.92	56.85	-13.93	QP	
8	0.4515	21.53	11.32	32.85	46.85	-14.00	AVG	
9	0.7430	19.45	11.31	30.76	46.00	-15.24	AVG	
10	0.7470	31.79	11.31	43.10	56.00	-12.90	QP	
11	29.5270	4.01	10.63	14.64	50.00	-35.36	AVG	
12	29.6837	20.45	10.59	31.04	60.00	-28.96	QP	

4. Radiation Spurious Emission Test

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

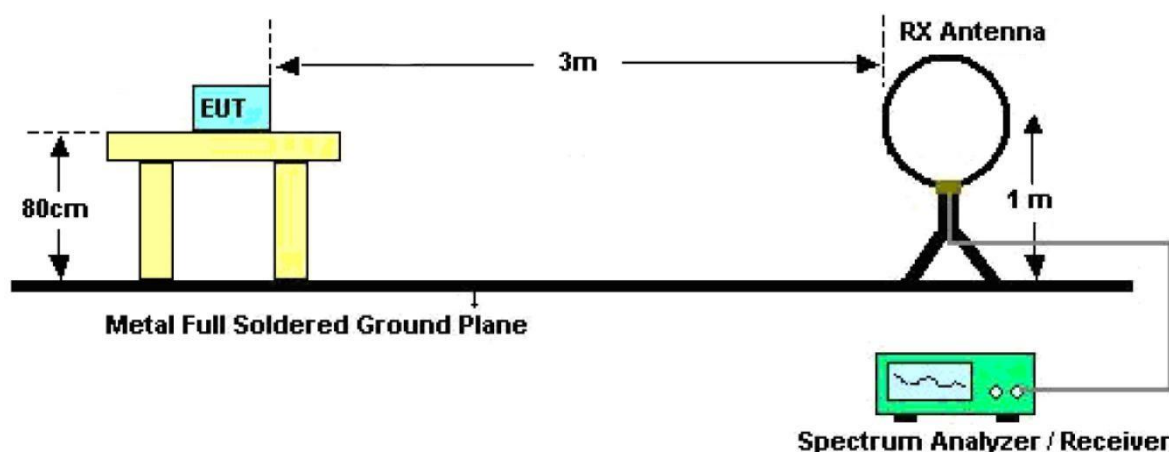


Figure 1. Below 30MHz

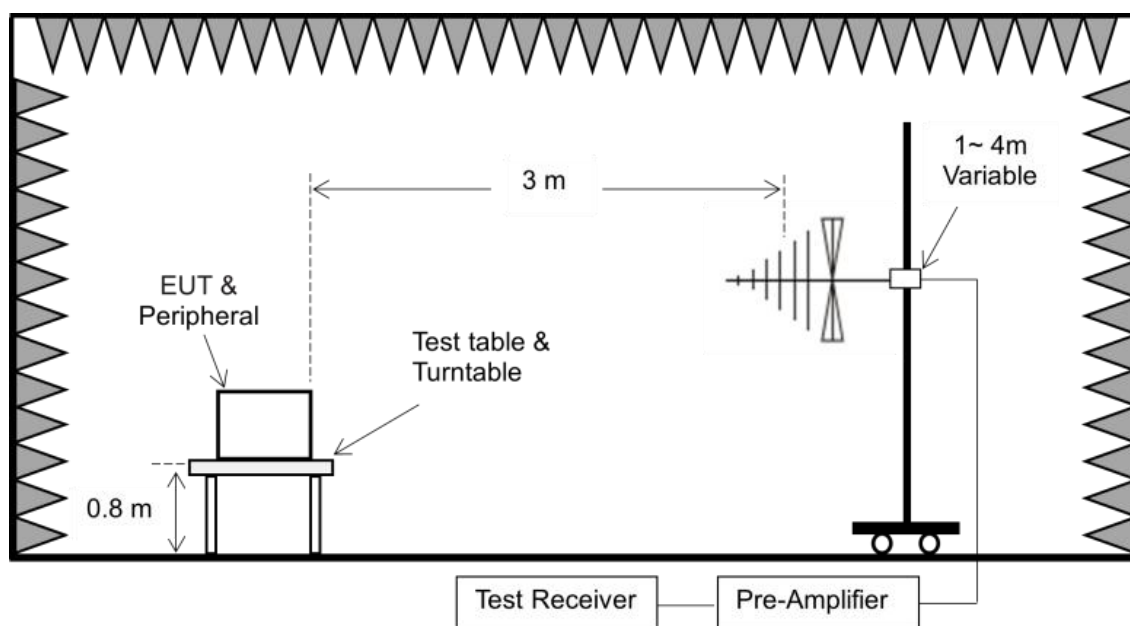


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

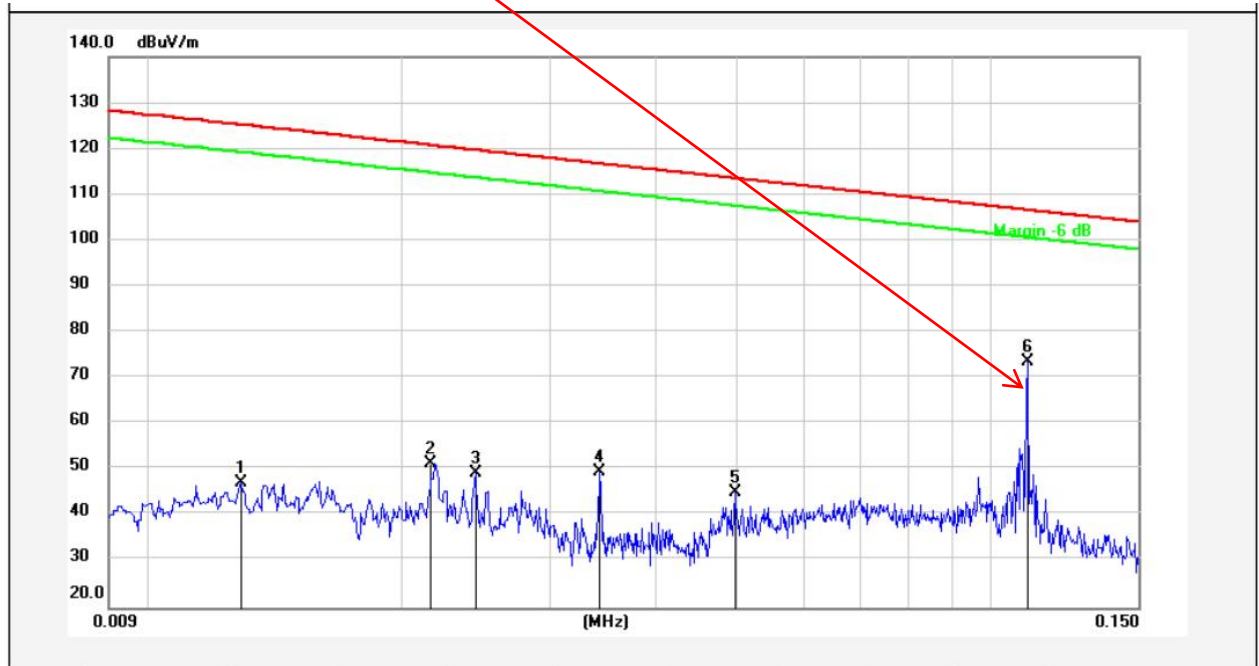
PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Test Results (Between 9KHz – 150KHz)

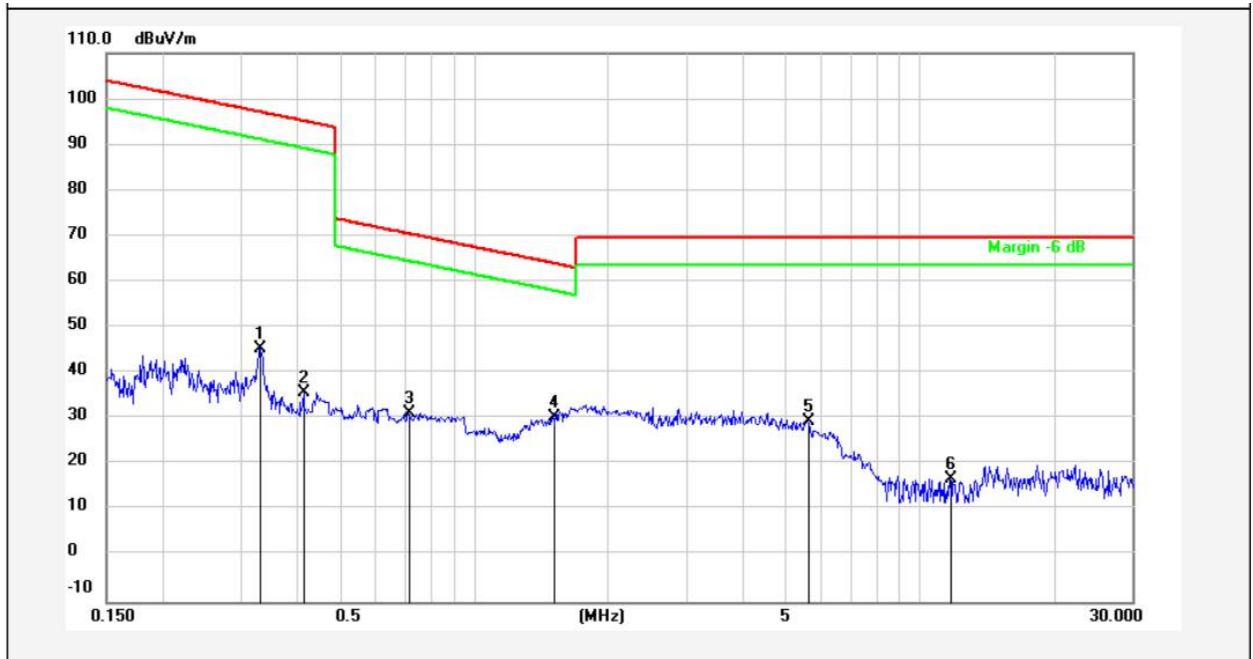
Test Mode: TM1
Distance: 3m
Power Source: AC 120V/60Hz
Polarization: Coplane
Temp.(°C)/Hum.(%RH): 25°C/54%RH
Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0129	60.26	-13.03	47.23	125.20	-77.97	Peak			
2	0.0217	64.24	-12.90	51.34	120.71	-69.37	Peak			
3	0.0245	61.98	-12.85	49.13	119.66	-70.53	Peak			
4	0.0343	62.28	-12.69	49.59	116.76	-67.17	Peak			
5	0.0497	57.55	-12.43	45.12	113.55	-68.43	Peak			
6	0.1107	85.81	-12.21	73.60	106.64	-33.04	Peak			

Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM1
Distance: 3m
Power Source: AC 120V/60Hz
Polarization: Coplane
Temp.(°C)/Hum.(%RH): 25°C/54%RH

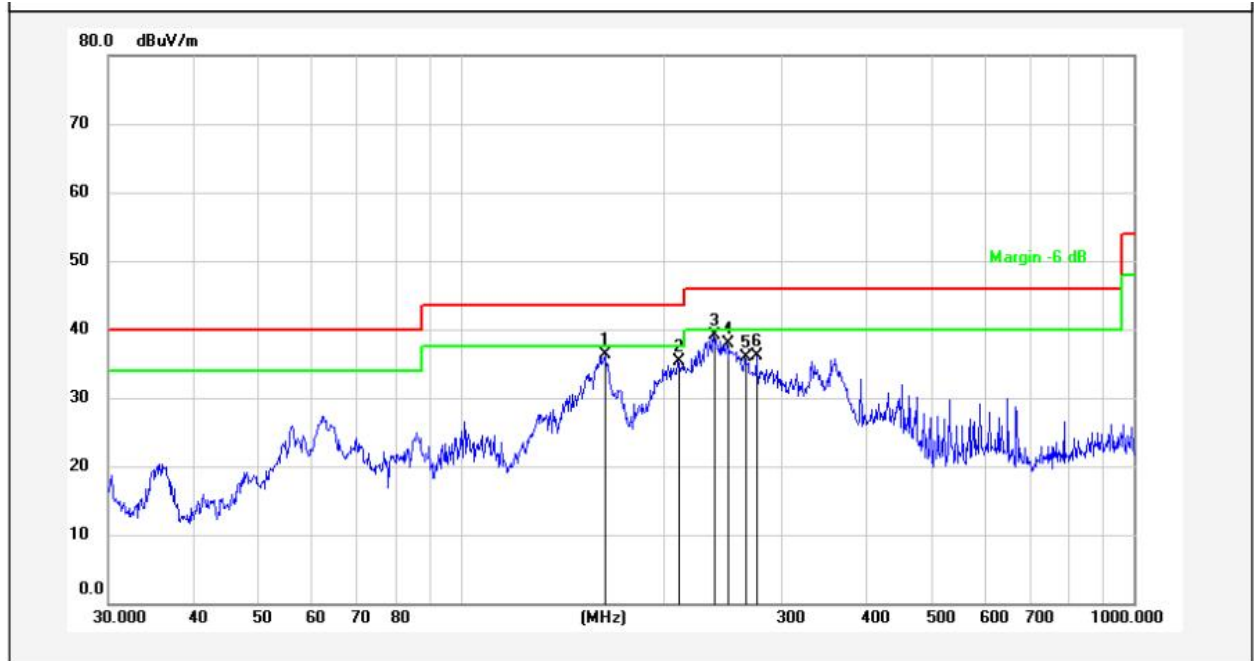


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.3305	57.77	-12.32	45.45	97.20	-51.75	Peak			
2	0.4156	48.14	-12.36	35.78	95.22	-59.44	Peak			
3	0.7154	43.68	-12.53	31.15	70.52	-39.37	QP			
4	1.5100	43.32	-12.83	30.49	64.05	-33.56	QP			
5	5.6082	43.25	-13.88	29.37	69.50	-40.13	QP			
6	11.7134	32.17	-15.39	16.78	69.50	-52.72	QP			

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

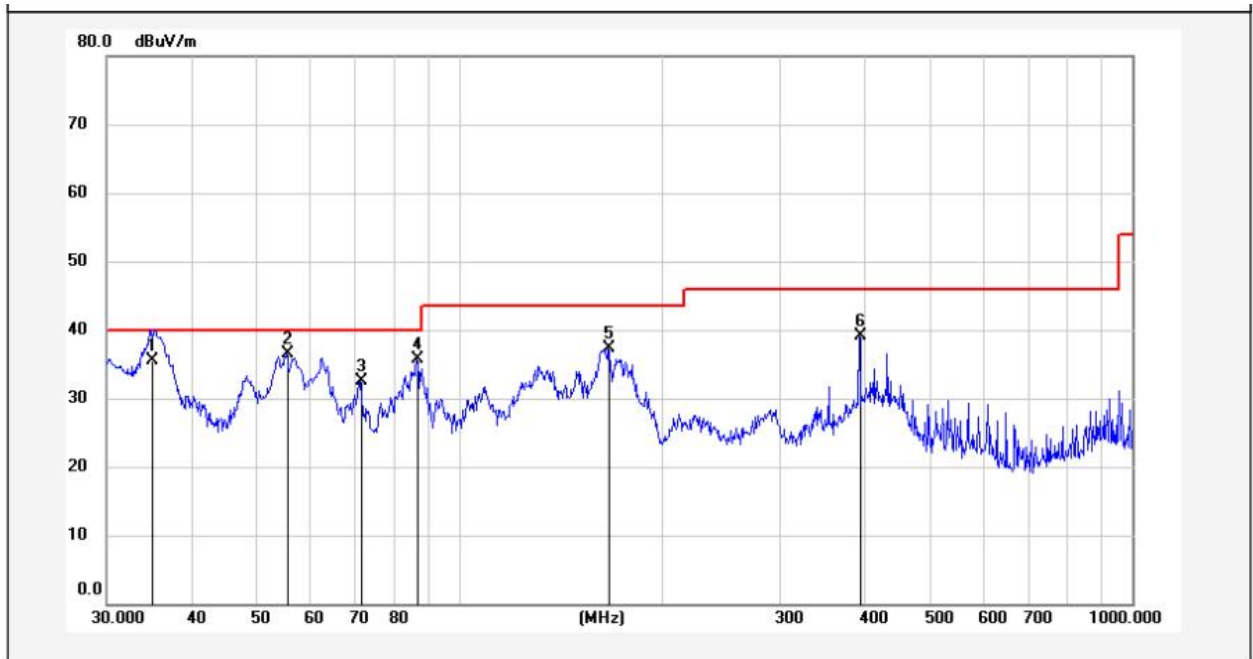
Test Results (Between 30MHz –1000 MHz)

Test Mode: TM1
Distance: 3m
Power Source: AC 120V/60Hz
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 24°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	164.0423	59.56	-23.23	36.33	43.50	-7.17	QP			
2	210.1403	56.86	-21.64	35.22	43.50	-8.28	QP			
3	237.7885	59.02	-19.85	39.17	46.00	-6.83	QP			
4	249.3157	57.43	-19.52	37.91	46.00	-8.09	QP			
5	264.8618	55.23	-19.38	35.85	46.00	-10.15	QP			
6	276.1235	54.95	-18.79	36.16	46.00	-9.84	QP			

Test Mode: TM1
Distance: 3m
Power Source: AC 120V/60Hz
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 24°C/50%RH



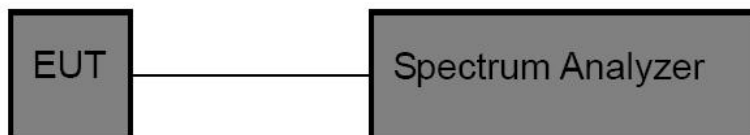
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.9960	58.69	-23.26	35.43	40.00	-4.57	QP			
2	55.4633	57.09	-20.62	36.47	40.00	-3.53	QP			
3	71.3926	57.12	-24.61	32.51	40.00	-7.49	QP			
4	86.5788	60.70	-24.94	35.76	40.00	-4.24	QP			
5	166.7245	61.28	-23.97	37.31	43.50	-6.19	QP			
6	394.5085	55.48	-16.38	39.10	46.00	-6.90	QP			

5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2. Test Setup



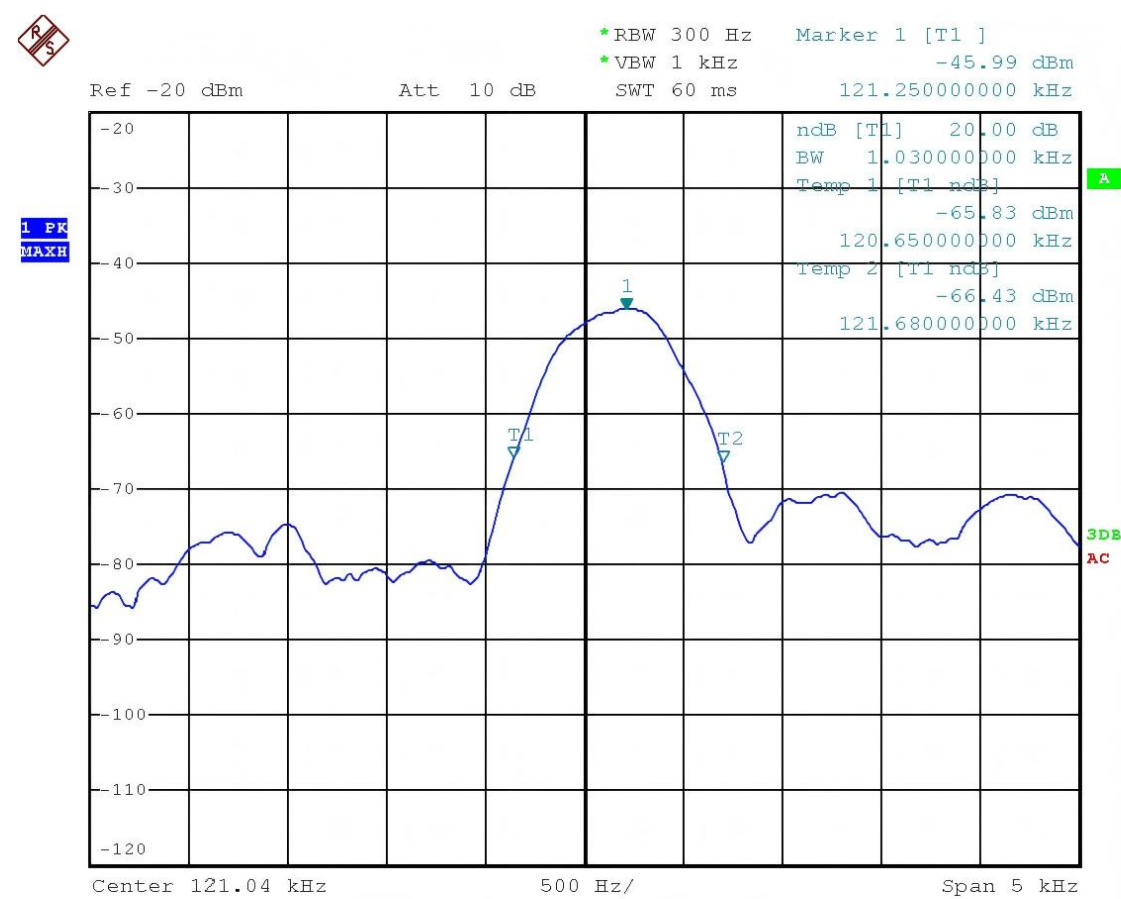
5.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Data

Temperature:	24.8 °C	Humidity:	50 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------

Freq. (MHz)	Bandwidth (kHz)	Results
121.25	1.03	PASS



Date: 16.APR.2026 14:27:22

Note: When required, the occupied bandwidth shall be measured using the procedure specified by the regulatory authority or purchasing agency, e.g., in ANSI C63.10 [B1]. However, in case of continuous wave WPT systems, it is acceptable to use an RBW that is above the 1% to 5% range usually prescribed for OBW measurement. See also 10.4.2c) and 10.4.2d).

6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 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 a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----