

FCC Test Report

Applicant : Shenzhen WKSP Power Technology CO., Ltd

Address : Floor 1401, Block 1, Baiwang R&D Building,
5298 Shahe West Road, Baimang Community,
Xili Street, Nanshan District, Shenzhen, PRC

Product Name : PORTABLE POWER STATION

Report Date : Jul. 26, 2024



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	7
1.4. Description of Test Modes	7
1.5. Description Of Test Setup	8
1.6. Test Equipment List	9
1.7. Measurement Uncertainty	10
1.8. Description of Test Facility	10
1.9. Disclaimer	10
2. Summary of Test Results	11
3. Conducted Emission Test	12
3.1. Test Standard and Limit	12
3.2. Test Setup	12
3.3. Test Procedure	12
3.4. Test Data	12
4. Radiation Spurious Emission	15
4.1. Test Standard and Limit	15
4.2. Test Setup	15
4.3. Test Procedure	16
4.4. Test Data	16
5. 20dB Occupy Bandwidth Test	21
5.1. Test Standard and Limit	21
5.2. Test Setup	21
5.3. Test Procedure	21
5.4. Test Data	21
6. Antenna Requirement	23
6.1. Test Standard and Requirement	23
6.2. Antenna Connected Construction	23
APPENDIX I -- TEST SETUP PHOTOGRAPH	24
APPENDIX II -- EXTERNAL PHOTOGRAPH	24
APPENDIX III -- INTERNAL PHOTOGRAPH	24



TEST REPORT

Applicant : Shenzhen WKSP Power Technology CO., Ltd
Manufacturer : Huizhou Intelligent Energy Co., Ltd.
Product Name : PORTABLE POWER STATION
Model No. : PTB200
Trade Mark : N/A
Rating(s) : Please refer to page 6.

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2020

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

Jun. 15, 2024

Date of Test

Jun. 15, 2024 to Jul. 26, 2024

Prepared By



(Ella Liang)

Approved & Authorized Signer



(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 26, 2024



1. General Information

1.1. Client Information

Applicant	:	Shenzhen WKSP Power Technology CO., Ltd
Address	:	Floor 1401, Block 1, Baiwang R&D Building, 5298 Shahe West Road, Baimang Community, Xili Street, Nanshan District, Shenzhen, PRC
Manufacturer	:	Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China
Factory	:	Huizhou Intelligent Energy Co., Ltd.
Address	:	8-9/F, Bldg.E2, Qunyi Industrial Park, Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, HuiZhou, China

1.2. Description of Device (EUT)

Product Name	:	PORTABLE POWER STATION
Model No.	:	PTB200
Trade Mark	:	N/A
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	:	115-205kHz
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.		



Rating(s):

WKSP

PORTABLE POWER STATION

- Type: PTB200
- Battery Energy: 1843.2Wh, 51.2V
- Solar Input: DC 12-75V=25A, 800W Max
- AC Input: AC 100-130V=10A 60Hz, 1200W Max
- Total AC and DC Input: 1200W Max
- AC Socket(x4) Output: AC 120V~60Hz, 2400W, Total: 2400W Max
- USB-C(x2) Output: (5V/9V/12V/15V/20V) =3A, 20V=5A, 100W Each port, Total: 200W
- USB-A(x2) Output: 5V=3A, 9V=2A, 12V=1.5A, 18W Each port, Total: 36W
- DC 5521(x2)+DC Power Socket 12V=10A, Total: 120W Max
- LED lighting output: 5W Max
- Wireless Output: 10W Total DC Output: 366W
- Total AC and DC Output: 2640W Max
- Operating Temp: 14°F to 104°F (-10°C to 40°C)
- Charging Temp: 32°F to 104°F (0°C to 40°C)
- Manufacturer: Huizhou Intelligent Energy Co., Ltd.
- Date Code:

3.06.04.0729

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation, FCC ID: 2BG25PTB200V1000



CONFORMS TO ANSI CANUL STD. 2743

CAUTION!

- Risk of electric shock. Do not remove cover.
- No user serviceable parts inside. Refer servicing to qualified service personnel.
- Risk of Injury to persons. Do not use this product if the power cord or the battery cables are damaged in any way.
- This device is not intended for use in a commercial repair facility.

WARNING!

- Do not overcharge the internal battery. See Instruction Manual.
- Do not smoke, strike a match, or cause a spark in the vicinity of the power pack.
- Only charge the internal battery in a well ventilated area.
- Risk of Electric shock and risk of fire.

DANGER!

- This device is intended to be used indoors only. Do not use outdoors.

MISE EN GARDE!

- Risque de décharge électrique. Ne pas enlever le couvercle.
- Aucune des pièces à l'intérieur ne peut être réparée par l'utilisateur. L'entretien courant doit être effectué par un personnel d'entretien qualifié.
- Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sont endommagés de quelque façon.
- Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.

AVERTISSEMENT!

- Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation.
- Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation.
- Charger la batterie uniquement dans un endroit bien aéré.
- Risques de décharge électrique et d'incendie.

DANGER!

- Le dispositif est destiné à être utilisé à l'intérieur seulement. Ne pas l'utiliser à l'extérieur.



1.3. Auxiliary Equipment Used During Test

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

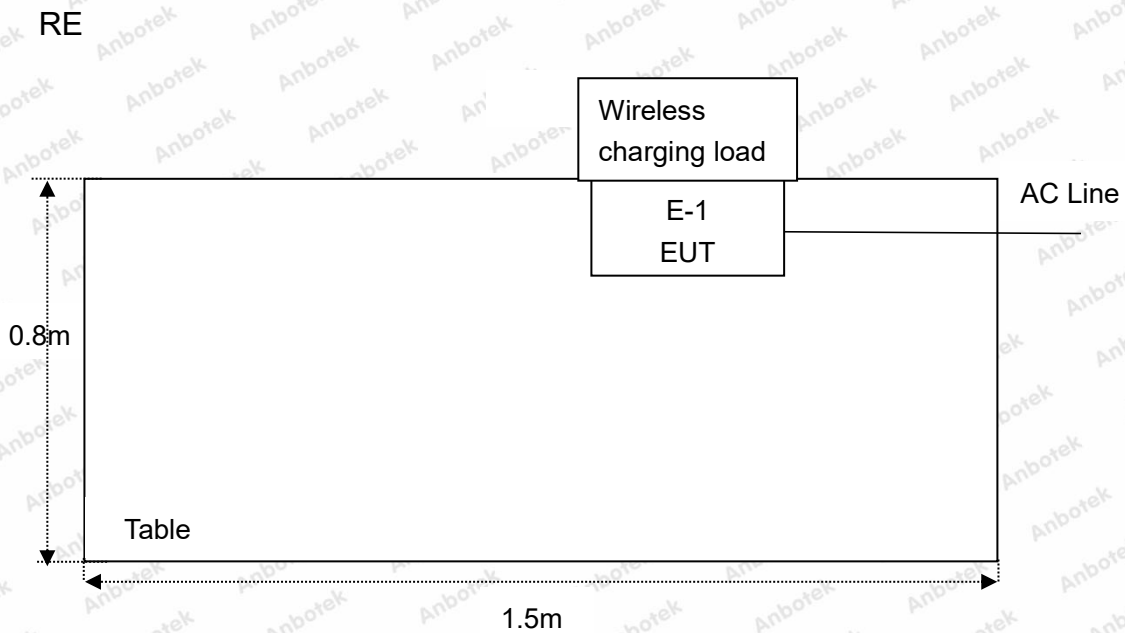
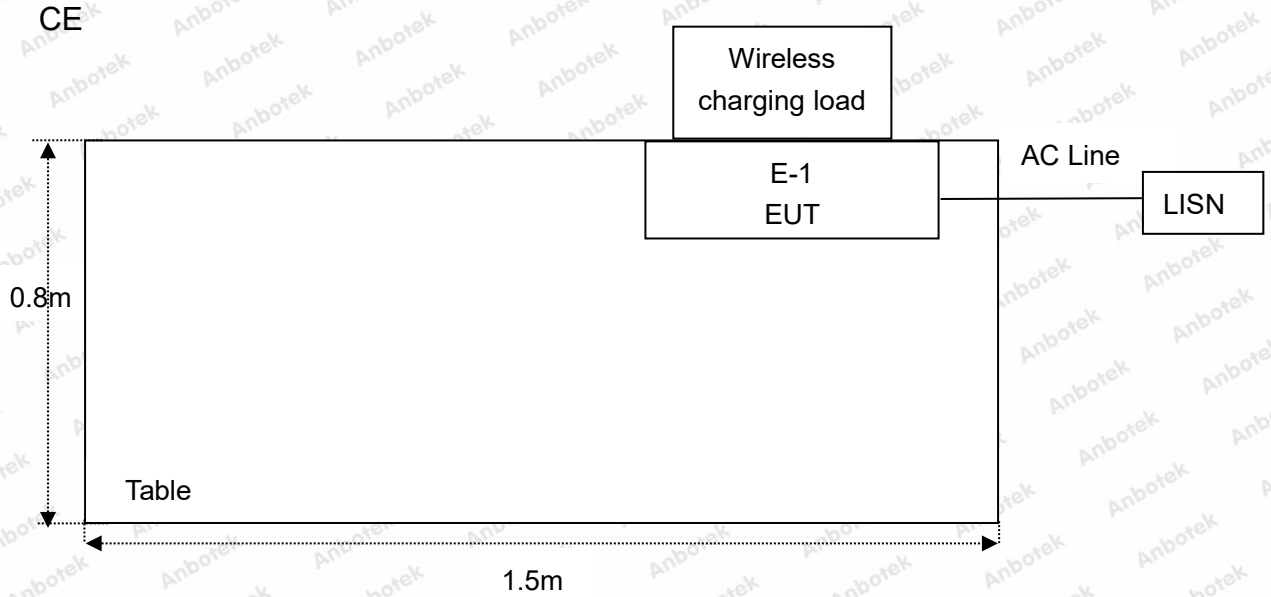
1.4. Description of Test Modes

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	Charging+WTP Mode (10W 1% Load)
TM2	Charging+WTP Mode (10W 50% Load)
TM3	Charging+WTP Mode (10W 99% Load)
TM4	WTP Mode (10W 1% Load)
TM5	WTP Mode (10W 50% Load)
TM6	WTP Mode (10W 99% Load)
TM7	Standby Mode



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year



1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
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.: 434132

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. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, 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.

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

Shenzhen Anbotek Compliance Laboratory Limited

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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Code: AB-RF-05-b



Hotline

400-003-0500

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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



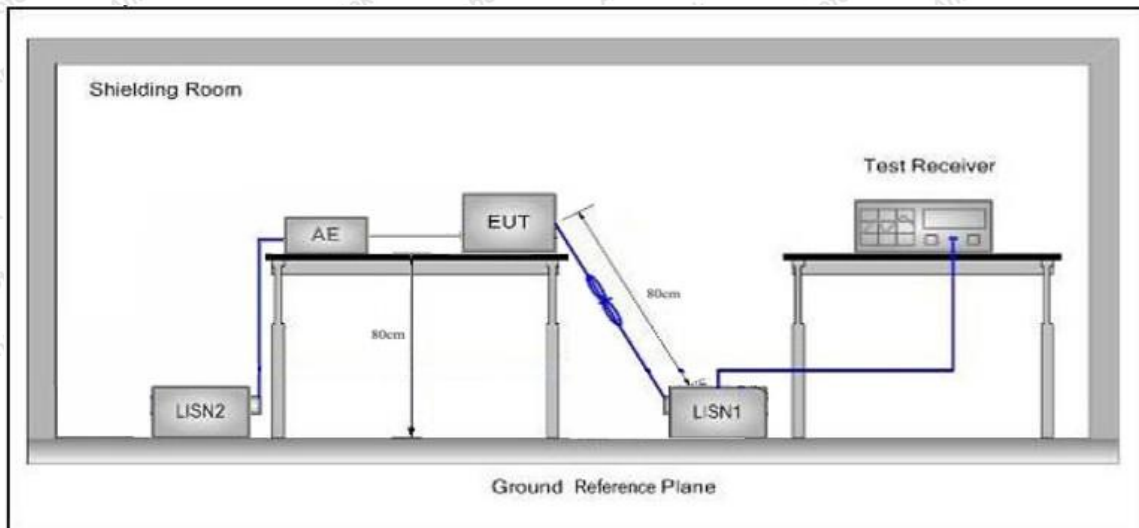
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
Test Limit	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 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

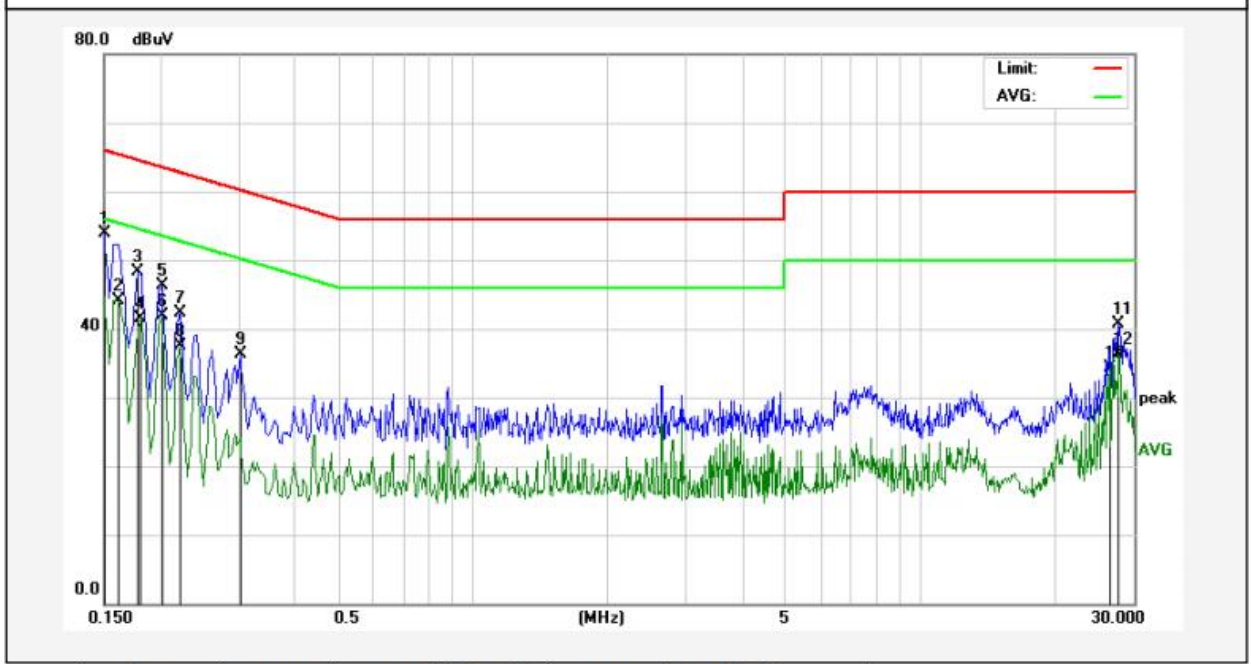
During the test, pre-scan all modes, only the worst case is recorded in the report.

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): 23.5°C/64%RH

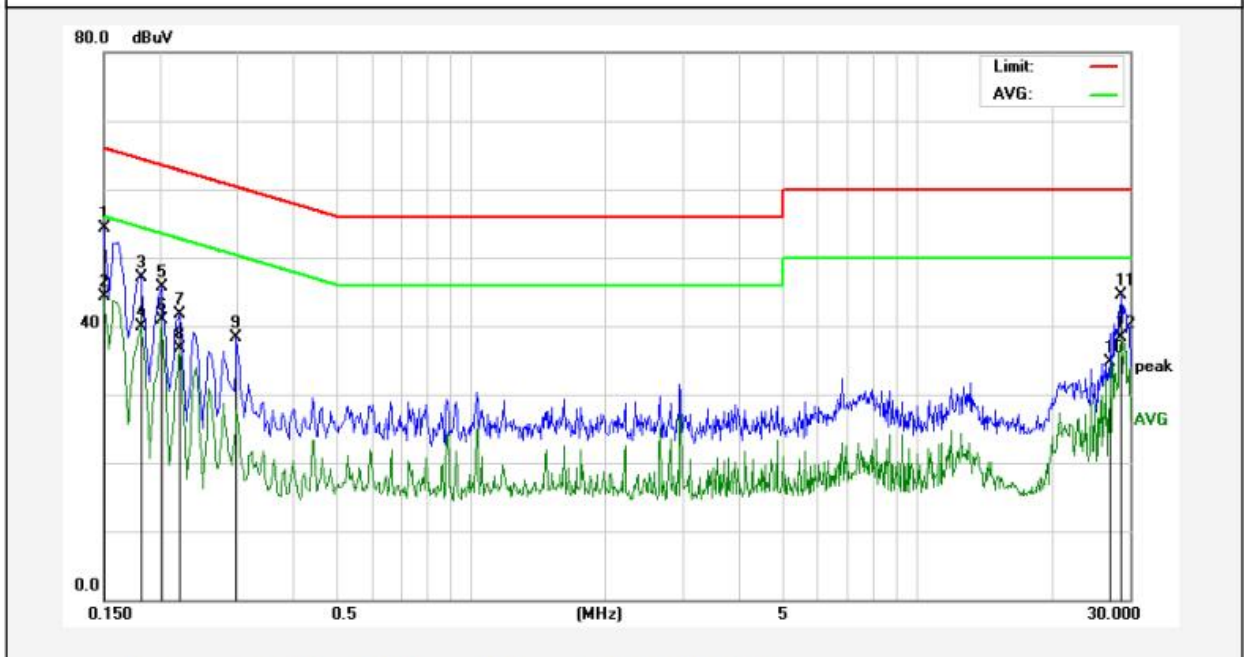


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	34.85	18.99	53.84	65.99	-12.15	QP	
2	0.1620	25.11	18.99	44.10	55.36	-11.26	AVG	
3	0.1780	29.33	18.96	48.29	64.57	-16.28	QP	
4	0.1819	22.58	18.96	41.54	54.39	-12.85	AVG	
5	0.2020	27.33	18.93	46.26	63.52	-17.26	QP	
6	0.2020	22.94	18.93	41.87	53.52	-11.65	AVG	
7	0.2220	23.41	18.97	42.38	62.74	-20.36	QP	
8	0.2220	18.44	18.97	37.41	52.74	-15.33	AVG	
9	0.3020	17.21	19.08	36.29	60.19	-23.90	QP	
10	26.6220	15.40	18.81	34.21	50.00	-15.79	AVG	
11	27.7980	21.76	18.85	40.61	60.00	-19.39	QP	
12	27.7980	17.45	18.85	36.30	50.00	-13.70	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: TM1
 Test Specification: AC 120V, 60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 23.5°C/64%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	35.28	18.99	54.27	65.99	-11.72	QP	
2	0.1500	25.23	18.99	44.22	55.99	-11.77	AVG	
3	0.1819	28.22	18.96	47.18	64.39	-17.21	QP	
4	0.1819	20.95	18.96	39.91	54.39	-14.48	AVG	
5	0.2020	26.77	18.93	45.70	63.52	-17.82	QP	
6	0.2020	21.88	18.93	40.81	53.52	-12.71	AVG	
7	0.2220	22.66	18.97	41.63	62.74	-21.11	QP	
8	0.2220	17.73	18.97	36.70	52.74	-16.04	AVG	
9	0.2980	19.13	19.09	38.22	60.30	-22.08	QP	
10	27.2420	15.79	18.84	34.63	50.00	-15.37	AVG	
11	28.7140	25.56	18.89	44.45	60.00	-15.55	QP	
12	28.7140	19.49	18.89	38.38	50.00	-11.62	AVG	



4. Radiation Spurious Emission

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

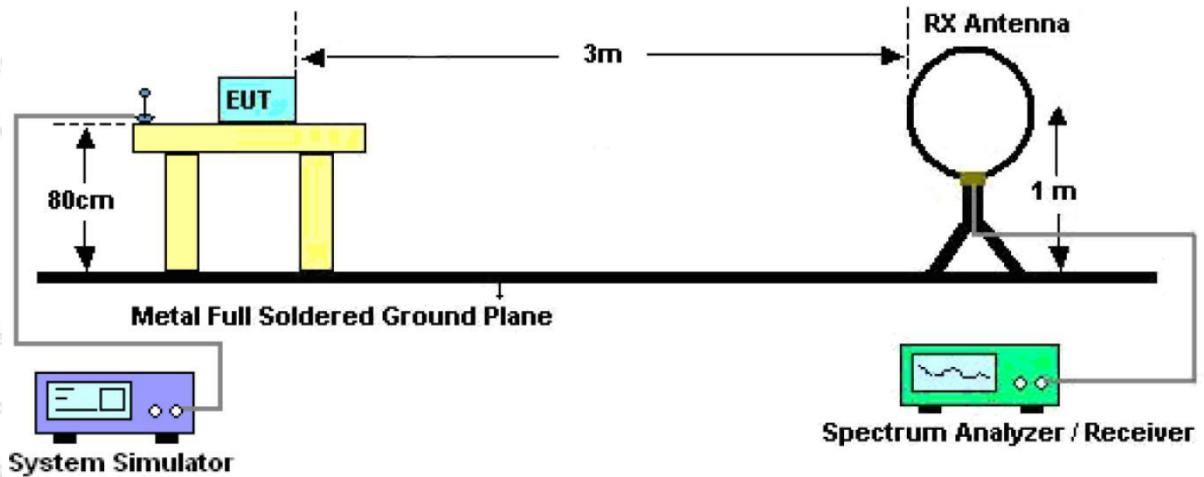


Figure 1. Below 30MHz



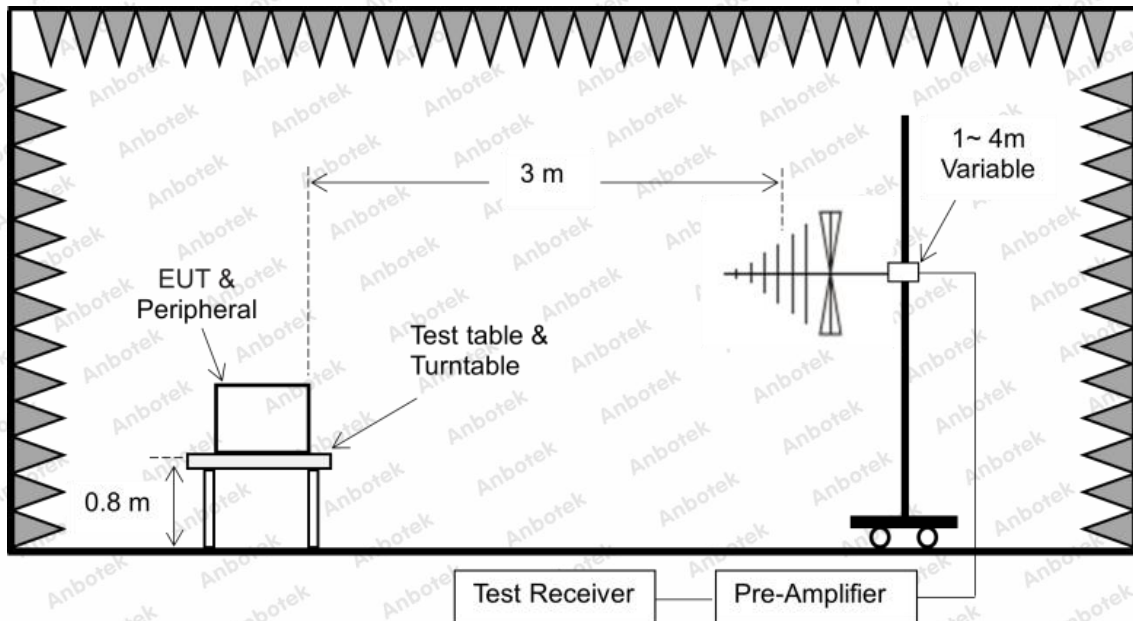


Figure 2. 30MHz to 1GHz

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

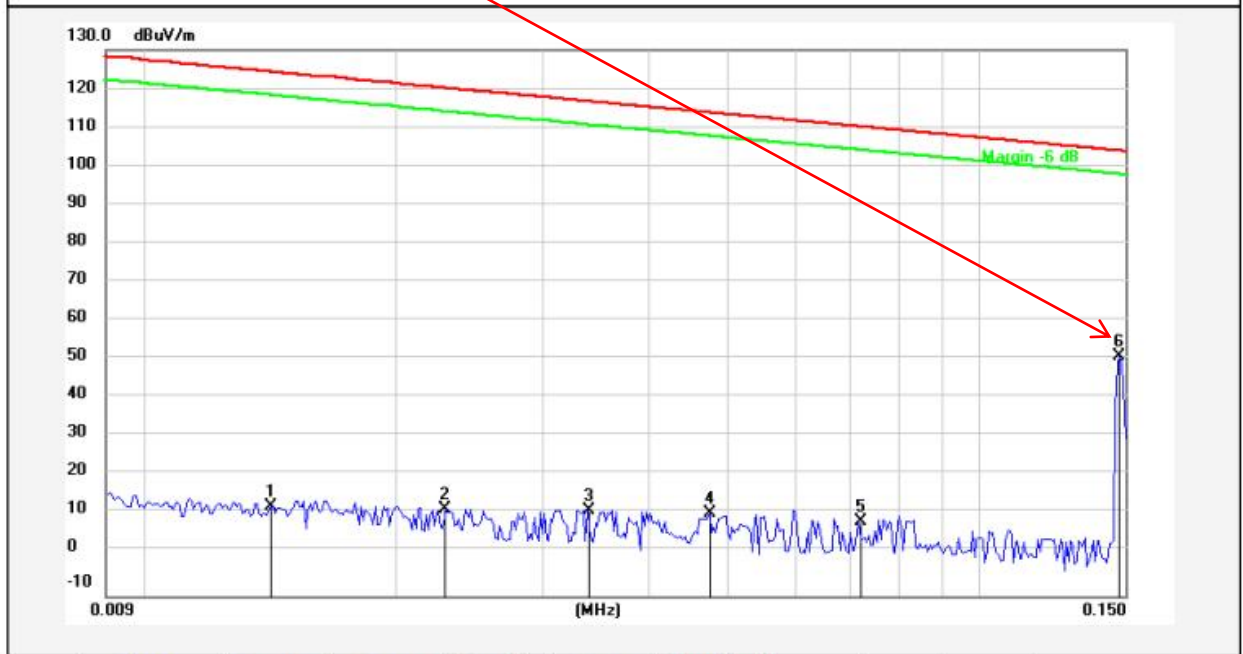
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.



Test Results (Between 9KHz – 150KHz)

Test Mode: TM4
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH
 Fundamental

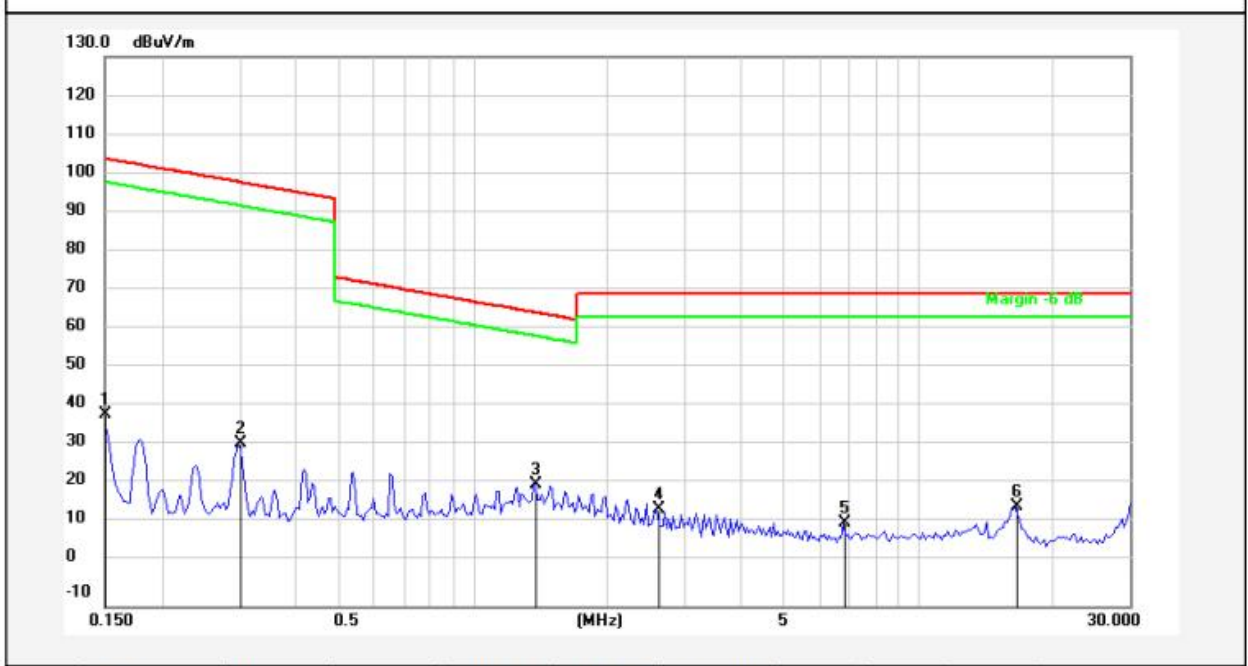


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	0.0142	-7.20	20.20	13.00	124.37	-111.37	QP
2	0.0229	-8.07	20.36	12.29	120.24	-107.95	QP
3	0.0340	-8.62	20.55	11.93	116.83	-104.90	QP
4	0.0476	-9.19	20.43	11.24	113.93	-102.69	QP
5	0.0718	-11.26	20.37	9.11	110.38	-101.27	QP
6	0.1474	31.25	20.33	51.58	104.17	-52.59	QP



Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM4
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



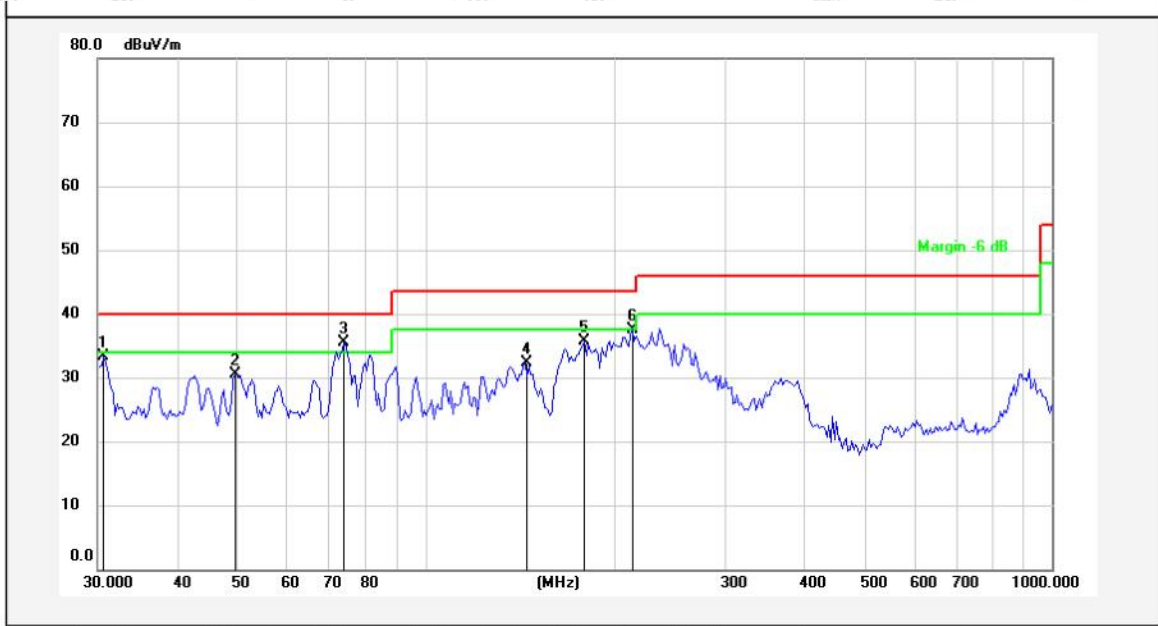
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	0.1500	18.64	20.33	38.97	104.02	-65.05	QP
2	0.2987	11.16	20.30	31.46	98.07	-66.61	QP
3	1.3738	0.80	20.26	21.06	64.87	-43.81	QP
4	2.5945	-5.51	20.29	14.78	69.50	-54.72	QP
5	6.8051	-9.32	20.44	11.12	69.50	-58.38	QP
6	16.5732	-5.01	20.55	15.54	69.50	-53.96	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)

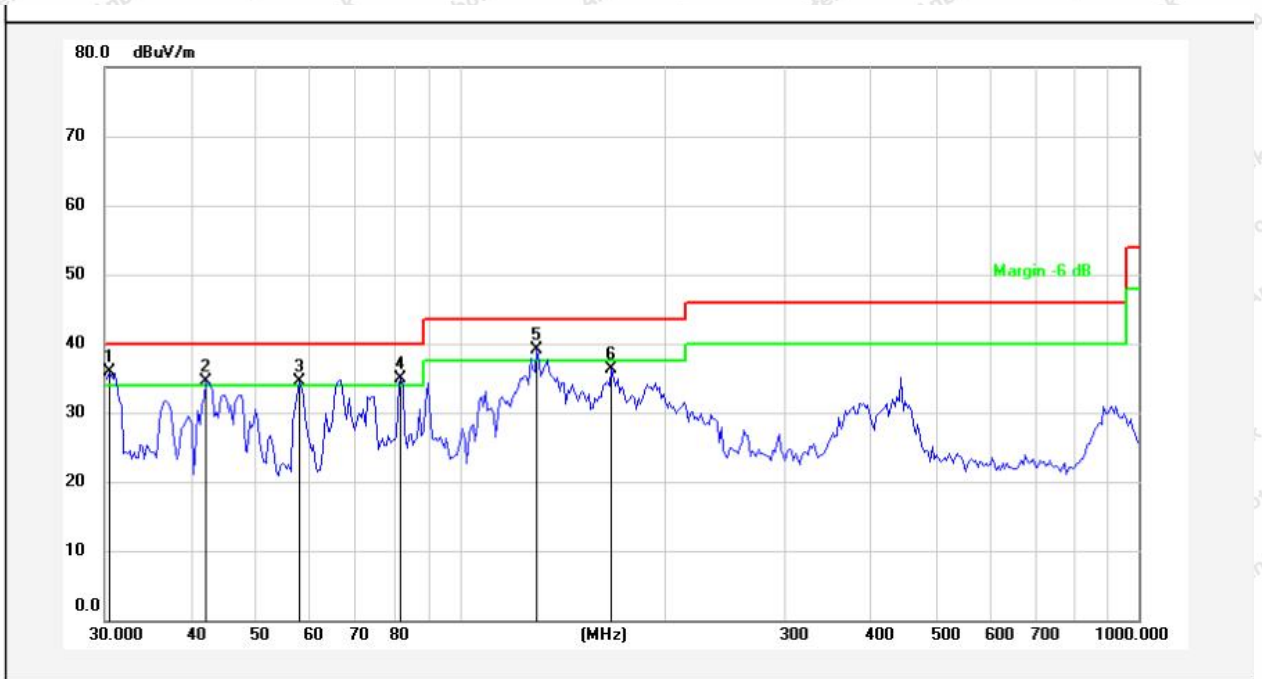
Test Mode: TM4
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	30.6377	53.51	-20.18	33.33	40.00	-6.67	QP
2	49.7068	46.48	-16.03	30.45	40.00	-9.55	QP
3	74.1350	55.97	-20.53	35.44	40.00	-4.56	QP
4	144.3348	51.62	-19.41	32.21	43.50	-11.29	QP
5	179.3863	52.75	-16.97	35.78	43.50	-7.72	QP
6	213.7632	52.79	-15.19	37.60	43.50	-5.90	QP



Test Mode: TM4
 Distance: 3m
 Power Source: AC 120V, 60Hz
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	30.4237	56.12	-20.22	35.90	40.00	-4.10	QP
2	42.3021	51.54	-17.06	34.48	40.00	-5.52	QP
3	57.9992	50.87	-16.42	34.45	40.00	-5.55	QP
4	81.7832	54.90	-19.97	34.93	40.00	-5.07	QP
5	129.9225	58.32	-19.21	39.11	43.50	-4.39	QP
6	167.2366	54.11	-17.88	36.23	43.50	-7.27	QP

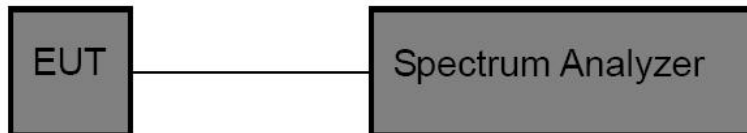


5. 20dB Occupancy Bandwidth Test

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

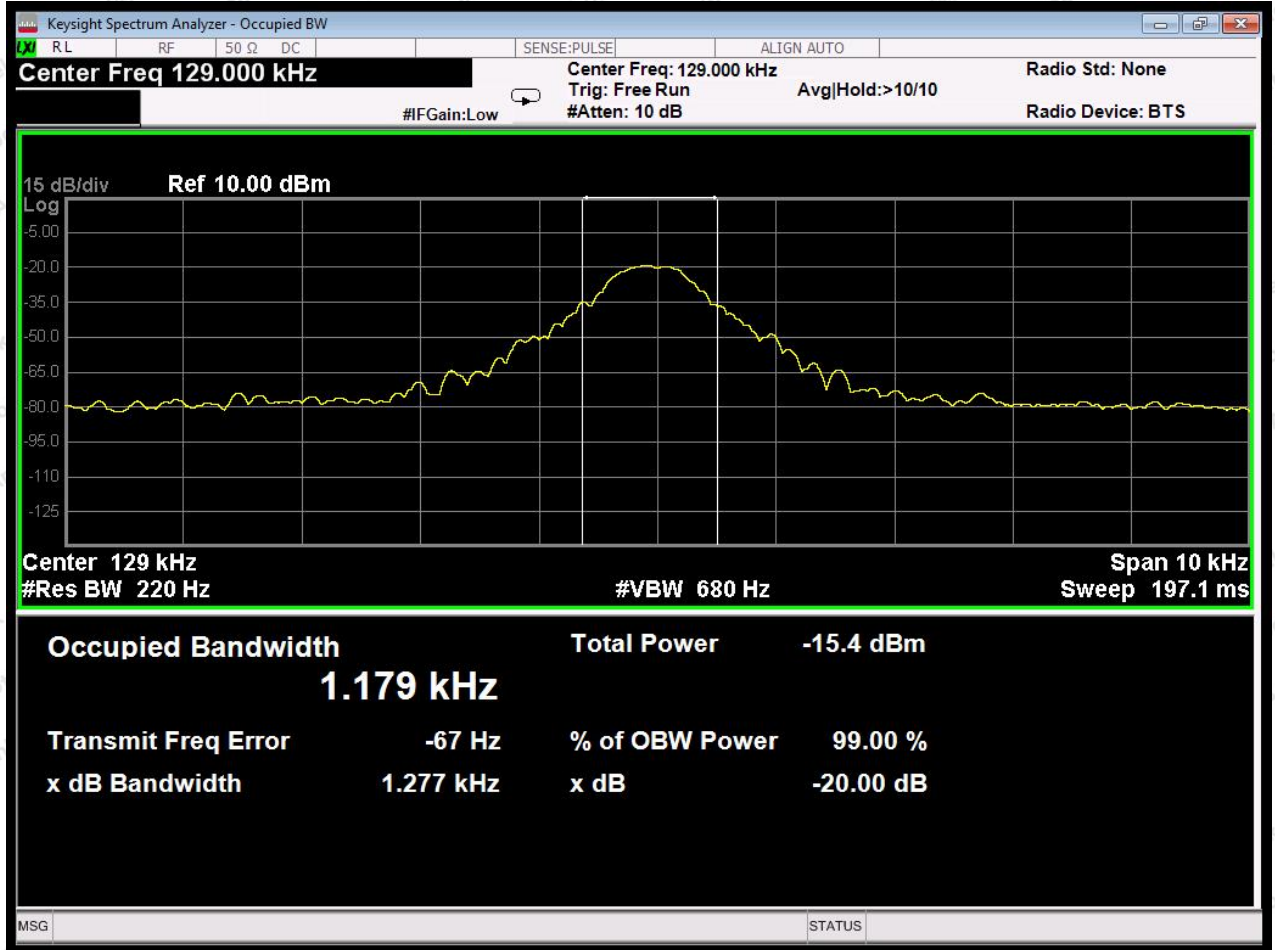
The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Data

Temperature:	25 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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Freq. (MHz)	Bandwidth (kHz)	Results
0.129	1.179	PASS



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 -----

