

FCC Test Report

Applicant : Shenzhen Doke Communication Co.,Ltd

Address : 1301-1302,13th Floor, Block B, WeiDongLong
Business Building, Meilong Road 2113,
Longhua District, ShenZhen, China

Product Name : Portable Power Station

Report Date : Nov. 25, 2024

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Doke Communication Co.,Ltd
Manufacturer : Shenzhen Doke Communication Co.,Ltd
Product Name : Portable Power Station
Model No. : PowerMax 2400, PowerMax 2400 Pro, PowerMax 2400 Plus, PM 2400, BP2400Pro
Trade Mark : OSCAL, Blackview
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 Aug. 30, 2024

Date of Test Sept. 02, 2024 to Nov. 14, 2024

Prepared By

Nian xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

KingKongJin

(KingKong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 25, 2024



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Doke Communication Co.,Ltd
Address	:	1301-1302,13th Floor, Block B, WeiDongLong Business Building, Meilong Road 2113, Longhua District, ShenZhen, China
Manufacturer	:	Shenzhen Doke Communication Co.,Ltd
Address	:	1301-1302,13th Floor, Block B, WeiDongLong Business Building, Meilong Road 2113, Longhua District, ShenZhen, China
Factory	:	Shenzhen Everplus Technology Co., Ltd
Address	:	AC501 of NCBC Industrial Zone,No.3 Baolong Road 6, Baolong Community, Baolong Street, Longgang District, Shenzhen City, China

1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Model No.	:	PowerMax 2400, PowerMax 2400 Pro, PowerMax 2400 Plus, PM 2400, BP2400Pro (Note: All samples are the same except the model name, so we prepare "PowerMax 2400" for test only.)
Trade Mark	:	OSCAL, Blackview
Test Power Supply	:	AC 120V/60Hz, DC 41.6V 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	:	FSK
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):

OSCAL

Portable Power Station

Model: PowerMax 2400

Total Output Power: 2400W
AC Output*4: 120V~50Hz/60Hz, Total 2400W
Wireless Output*2: 15W Max
USB-A Output*1: 5V~2.4A, 12W
USB-A QC3.0 Output*3: 5V~3A, 9V~2A, 12V~1.5A, Total 54W
Type-C PD3.0 Output*2: 5/9/12/15V~3A, 20V~5A, Total 200W
DC5521 Output*2: 12V~6A Max, Total 72W
Car Charge Output: 12V/24V~10A Max, 240W Max
Anderson Output interface: 12V/24V~10A Max, 240W Max
Battery Capacity: 41.6V~45Ah, 1872Wh
AC Input: 100-120V~15A Max 50Hz/60Hz
DC7909 Input: 10-60V~10A Max, 300W Max
Solar Input: 10-60V~20A Max, 800W Max
Working Temperature: -10°C~45°C
Charging Temperature Of Cells: 0°C~45°C
FCC ID: 2A98M-POWERMAX2400
Made in China
Shenzhen Dake Communication Co., Ltd

Warnings
1. Please keep the Portable Power Station and accessories dry and away from fire.
2. Do not disassemble or collide the product, or operate the product port to its instructions.
3. Do not get caught in the rain or water. If it happens, stop using the product immediately.
4. Please recycle and dispose the product subject to local laws and regulations.
5. Children and special group of people may use the product under the supervision of guardian.
6. Do not cover or block the radiator when using the product.

S/N





1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless load*2	BAECOAR	15W Smart wireless charger fixture wireless charging Power: 5W/7.5W/10W/15W	/

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.

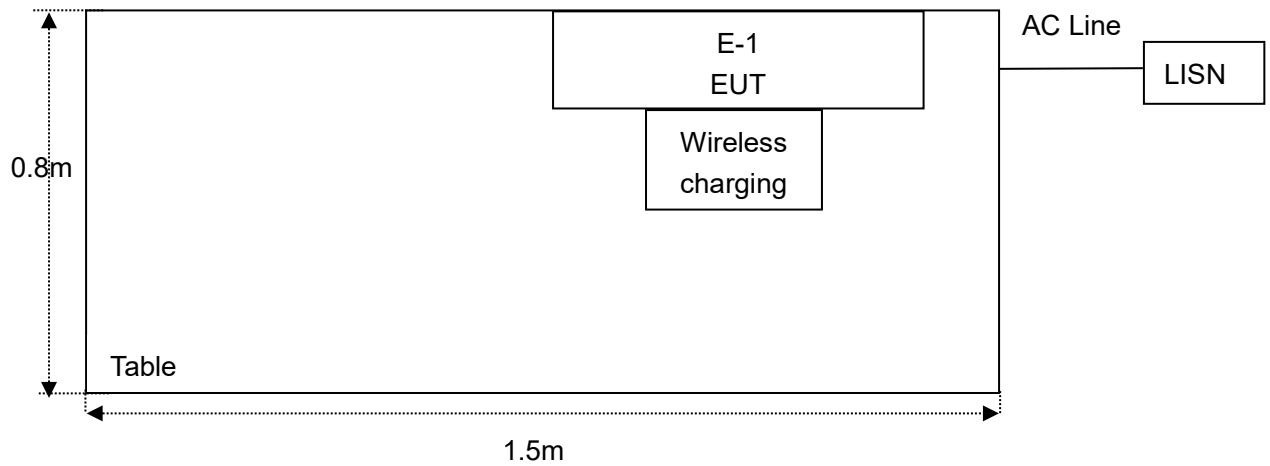
Pretest Modes	Descriptions
TM1	WPT1+WPT2 Mode (15W+15W Load)
TM2	WPT1+WPT2 Mode (10W+10W Load)
TM3	WPT1+WPT2 Mode (7.5W+7.5W Load)
TM4	WPT1+WPT2 Mode (5W+5W Load)
TM5	WPT1 Mode (15W Load)
TM6	WPT1 Mode (10W Load)
TM7	WPT1 Mode (7.5W Load)
TM8	WPT1 Mode (5W Load)
TM9	WPT2 Mode (15WLoad)
TM10	WPT2 Mode (10W Load)
TM11	WPT2 Mode (7.5W Load)
TM12	WPT2 Mode (5W Load)
TM13	Standby Mode

Note: All test modes were pre-tested, The TM1 was the worst case and only the data of the worst case record in this report.

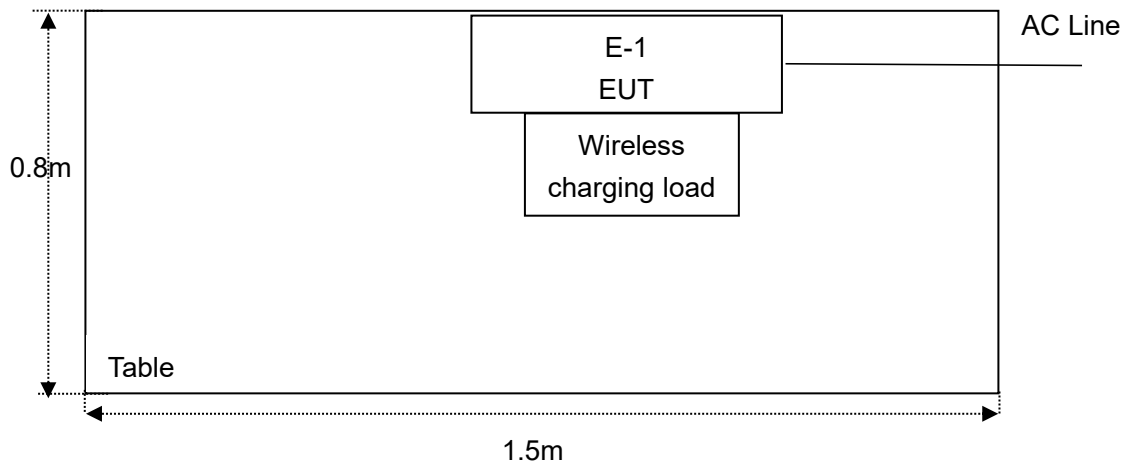


1.5. Description Of Test Setup

CE



RE



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	E215040DT0 01	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	Sept. 09, 2024	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	Sept. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Jan. 22, 2024	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	Sept. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Feb. 04, 2024	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 10, 2024	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sept. 12, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	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
Occupied Bandwidth	925Hz
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.

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.

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 Occupied Bandwidth	PASS



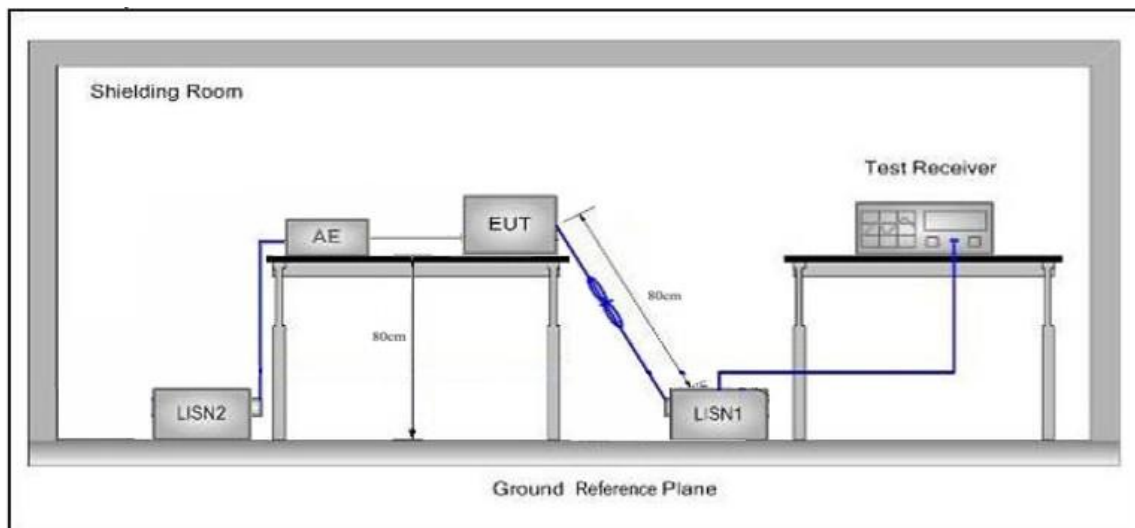
3. Conducted Emission Test

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 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

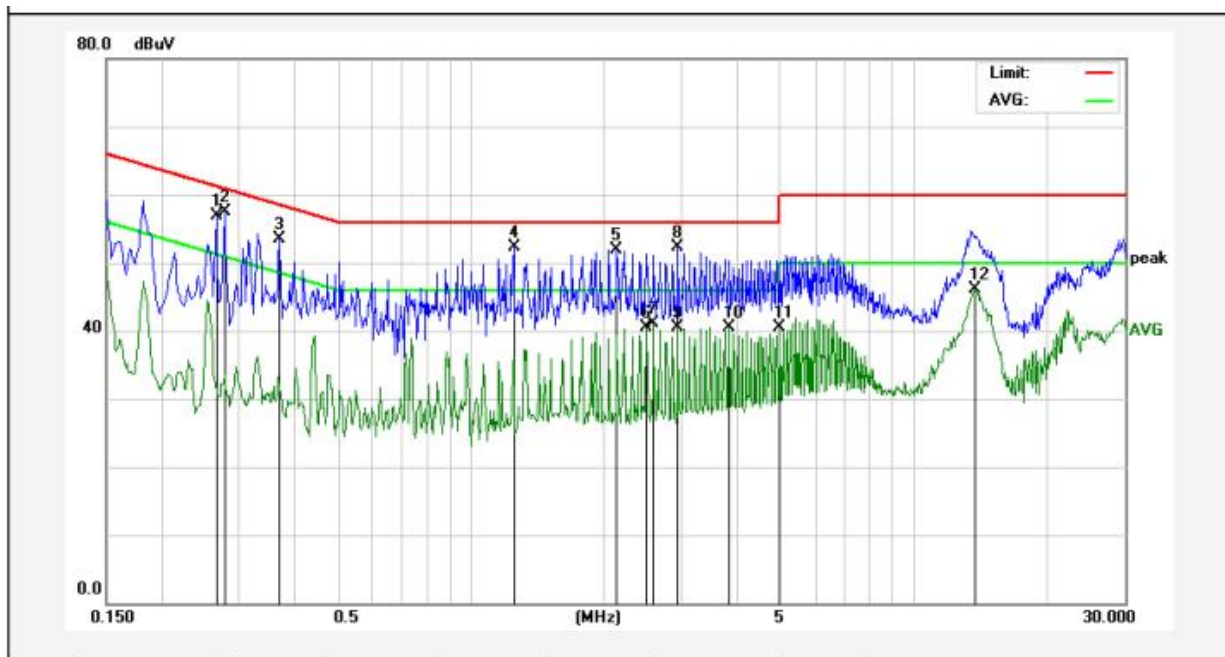
PASS

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): 23.3°C/51%RH

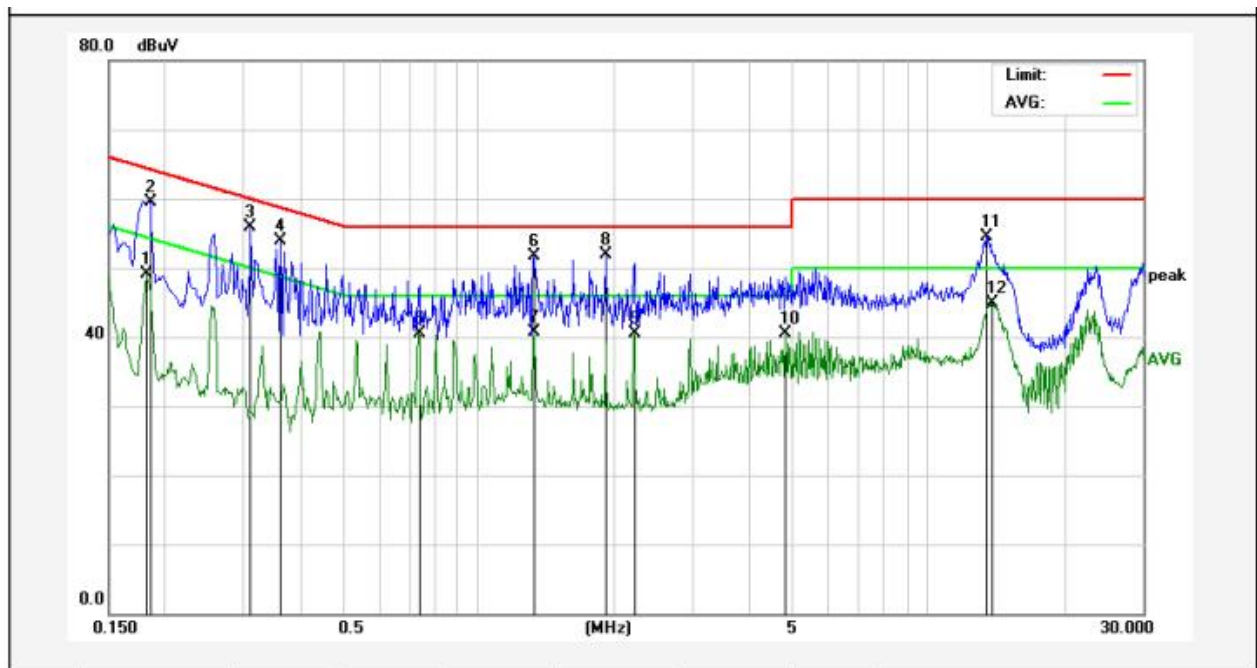


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2660	37.86	19.06	56.92	61.24	-4.32	QP	
2	0.2779	38.36	19.06	57.42	60.88	-3.46	QP	
3	0.3699	34.49	18.97	53.46	58.50	-5.04	QP	
4	1.2500	33.45	18.93	52.38	56.00	-3.62	QP	
5	2.1419	33.12	18.88	52.00	56.00	-4.00	QP	
6	2.4980	21.62	18.86	40.48	46.00	-5.52	AVG	
7	2.5859	22.15	18.86	41.01	46.00	-4.99	AVG	
8	2.9420	33.40	18.85	52.25	56.00	-3.75	QP	
9	2.9420	21.68	18.85	40.53	46.00	-5.47	AVG	
10	3.8340	21.63	18.82	40.45	46.00	-5.55	AVG	
11	4.9898	21.67	18.77	40.44	46.00	-5.56	AVG	
12	13.7258	27.21	18.84	46.05	50.00	-3.95	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): 23.3°C/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1819	30.23	18.96	49.19	54.39	-5.20	AVG	
2	0.1859	40.50	18.95	59.45	64.21	-4.76	QP	
3	0.3099	36.80	19.07	55.87	59.97	-4.10	QP	
4	0.3619	34.91	18.98	53.89	58.68	-4.79	QP	
5	0.7339	21.27	19.14	40.41	46.00	-5.59	AVG	
6	1.3260	32.86	18.93	51.79	56.00	-4.21	QP	
7	1.3260	21.75	18.93	40.68	46.00	-5.32	AVG	
8	1.9179	32.96	18.88	51.84	56.00	-4.16	QP	
9	2.2139	21.59	18.88	40.47	46.00	-5.53	AVG	
10	4.8098	21.64	18.77	40.41	46.00	-5.59	AVG	
11	13.4419	35.77	18.83	54.60	60.00	-5.40	QP	
12	13.8658	26.05	18.85	44.90	50.00	-5.10	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

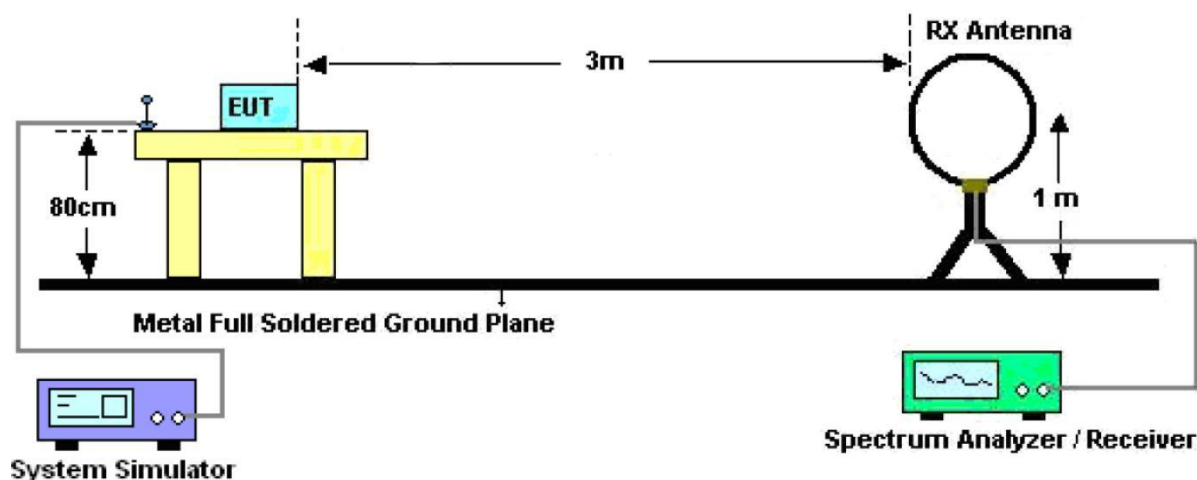


Figure 1. Below 30MHz



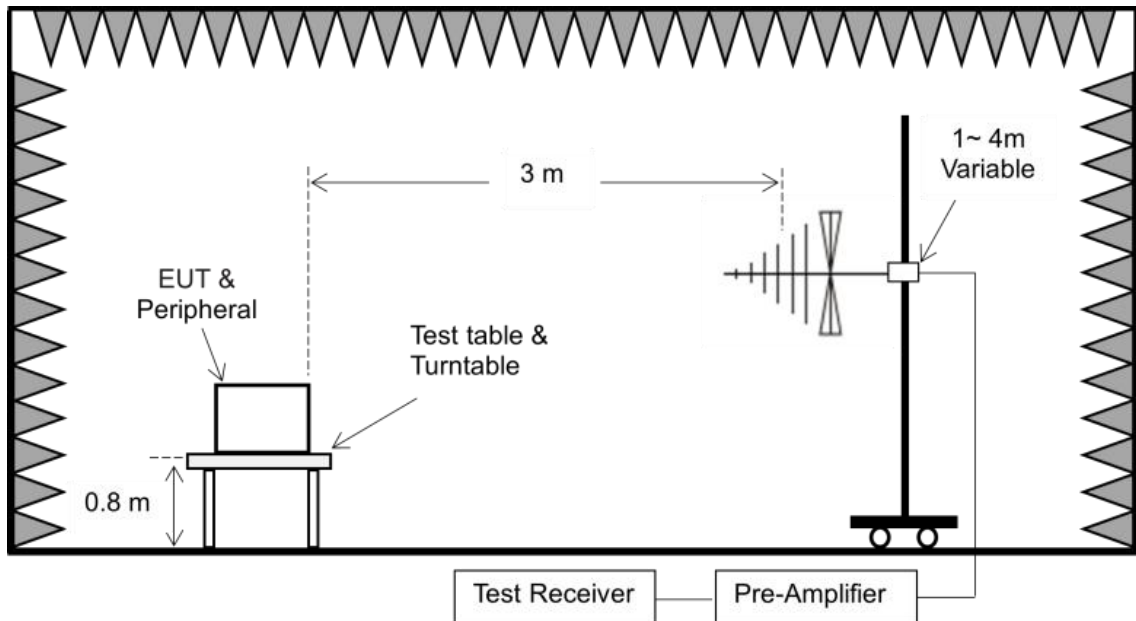


Figure 2. 30MHz to 1GHz

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:

TM1

Distance:

3m

Power Source:

DC 41.6V battery inside

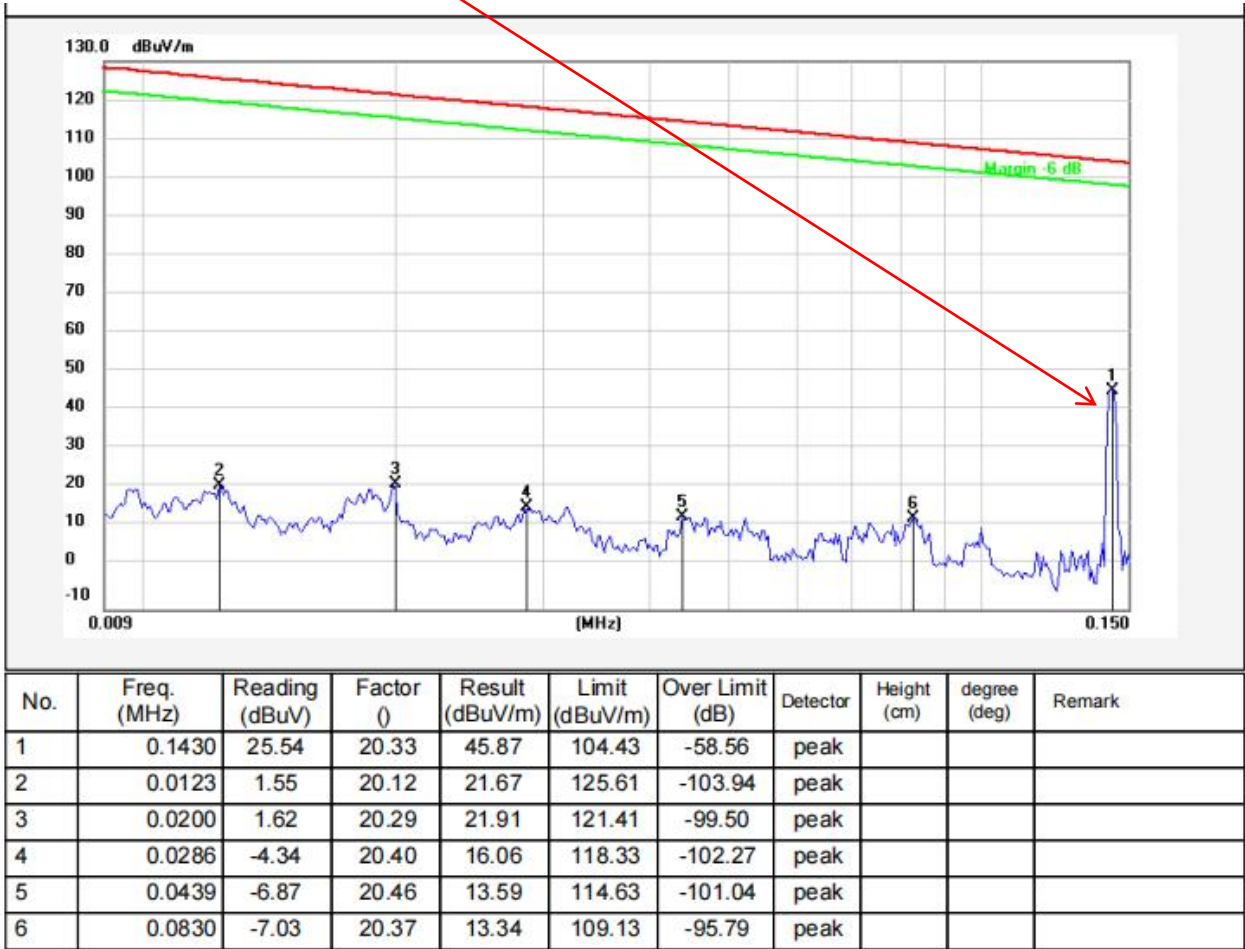
Polarization:

Coaxial

Temp.(°C)/Hum.(%RH):

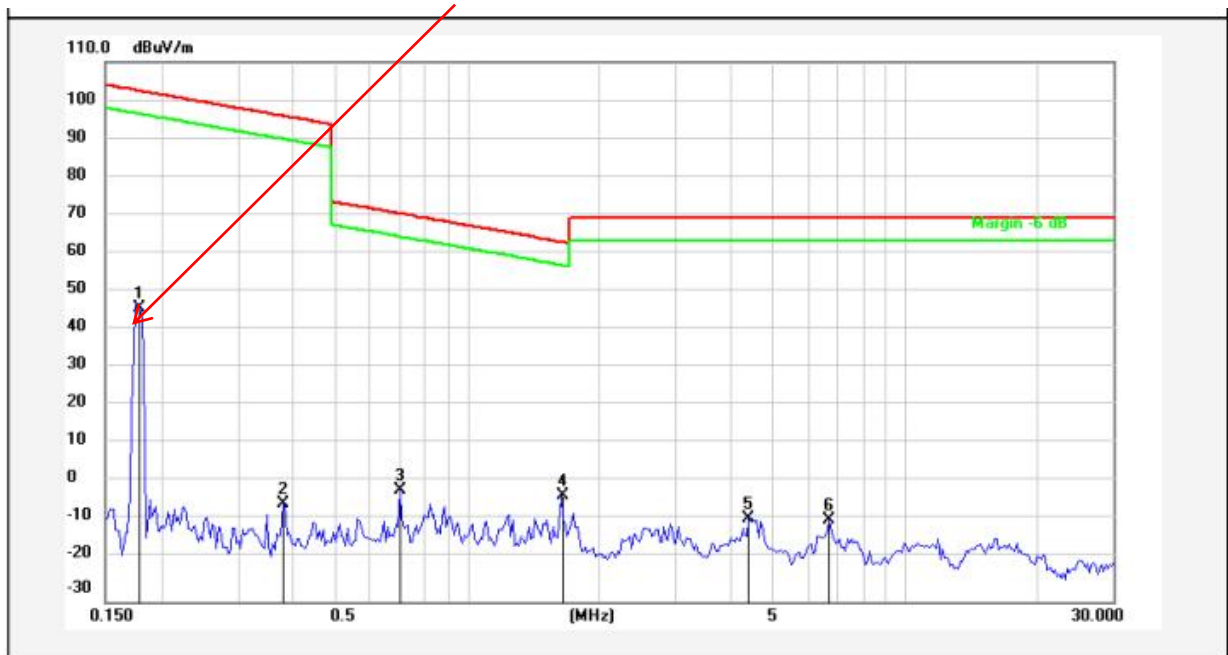
23.5°C/49%RH

Fundamental



Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM1
Distance: 3m
Power Source: DC 41.6V battery inside
Polarization: Coaxial
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH
Fundamental

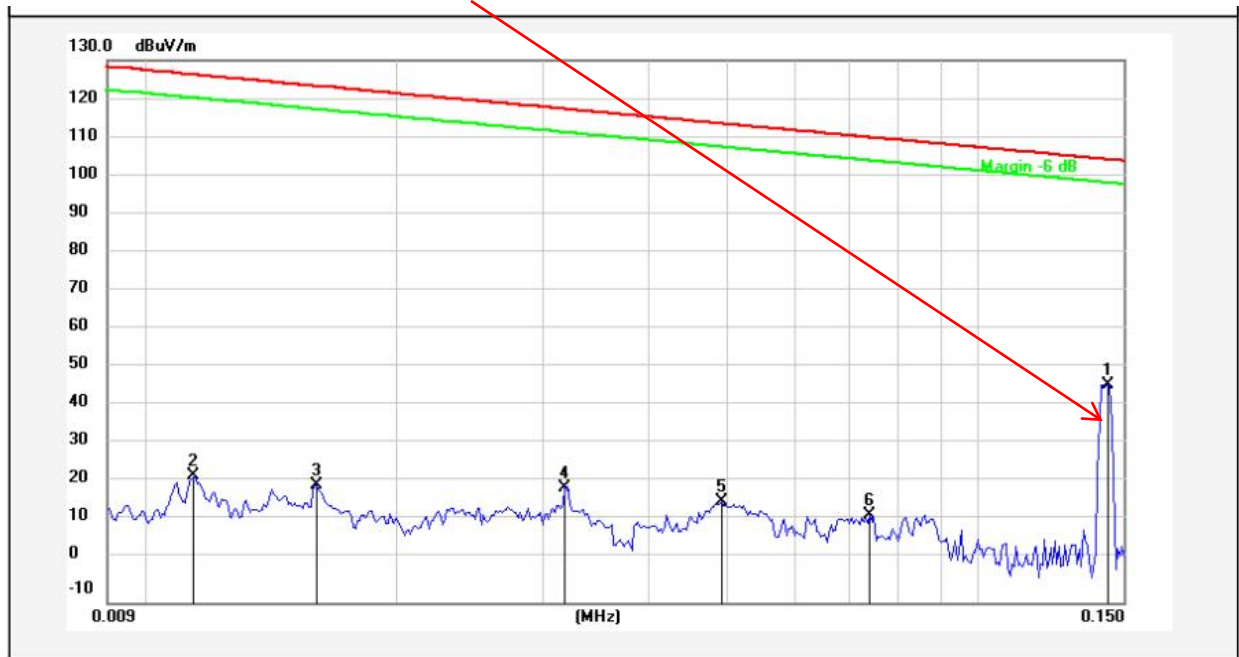


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.1780	25.74	20.32	46.06	102.54	-56.48	peak			
2	0.3810	-24.82	20.28	-4.54	95.97	-100.51	peak			
3	0.7046	-21.52	20.25	-1.27	70.65	-71.92	peak			
4	1.6450	-22.75	20.27	-2.48	63.31	-65.79	peak			
5	4.4069	-28.71	20.39	-8.32	69.50	-77.82	peak			
6	6.7332	-29.37	20.43	-8.94	69.50	-78.44	peak			



Test Results (Between 9KHz – 150KHz)

Test Mode: TM1
Distance: 3m
Power Source: DC 41.6V battery inside
Polarization: Coplane
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH
Fundamental

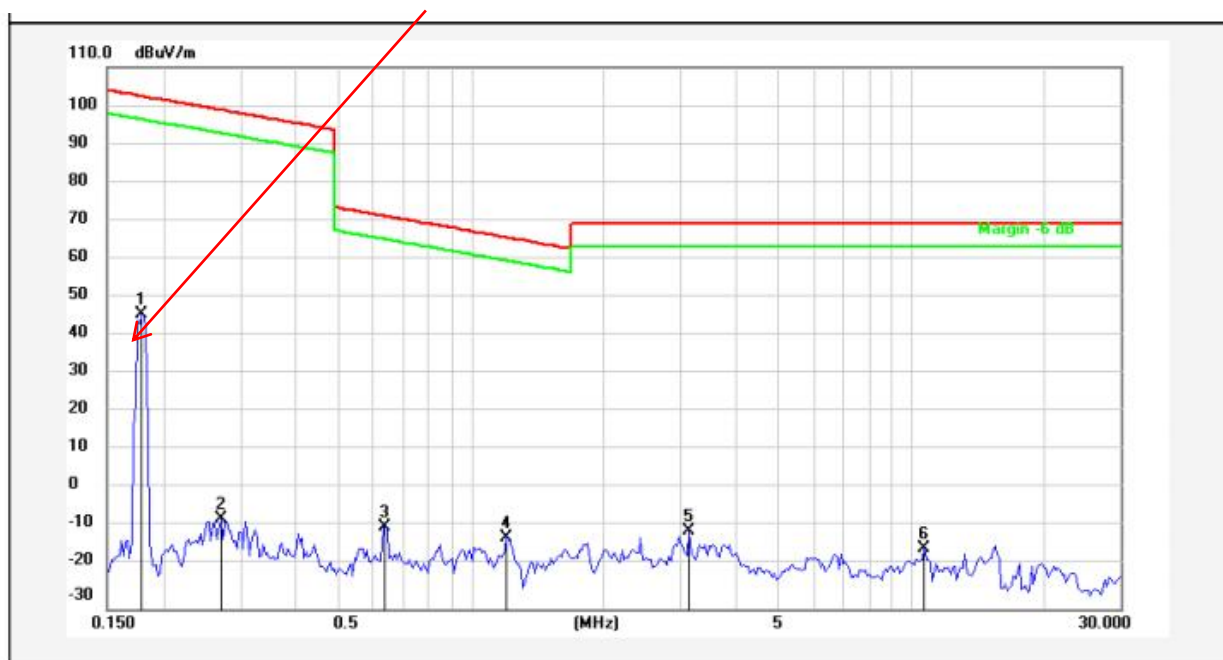


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.1430	25.95	20.33	46.28	104.43	-58.15	peak			
2	0.0114	2.61	20.08	22.69	126.27	-103.58	peak			
3	0.0160	-0.05	20.30	20.25	123.34	-103.09	peak			
4	0.0318	-0.81	20.56	19.75	117.41	-97.66	peak			
5	0.0492	-4.45	20.42	15.97	113.64	-97.67	peak			
6	0.0742	-7.95	20.37	12.42	110.10	-97.68	peak			



Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM1
Distance: 3m
Power Source: DC 41.6V battery inside
Polarization: Coplane
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	Height (cm)	degree (deg)	Remark
1	0.1780	25.64	20.32	45.96	102.54	-56.58	peak			
2	0.2714	-26.85	20.30	-6.55	98.90	-105.45	peak			
3	0.6401	-28.96	20.27	-8.69	71.49	-80.18	peak			
4	1.2096	-31.71	20.26	-11.45	65.97	-77.42	peak			
5	3.1396	-30.15	20.32	-9.83	69.50	-79.33	peak			
6	10.7330	-34.77	20.52	-14.25	69.50	-83.75	peak			

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)

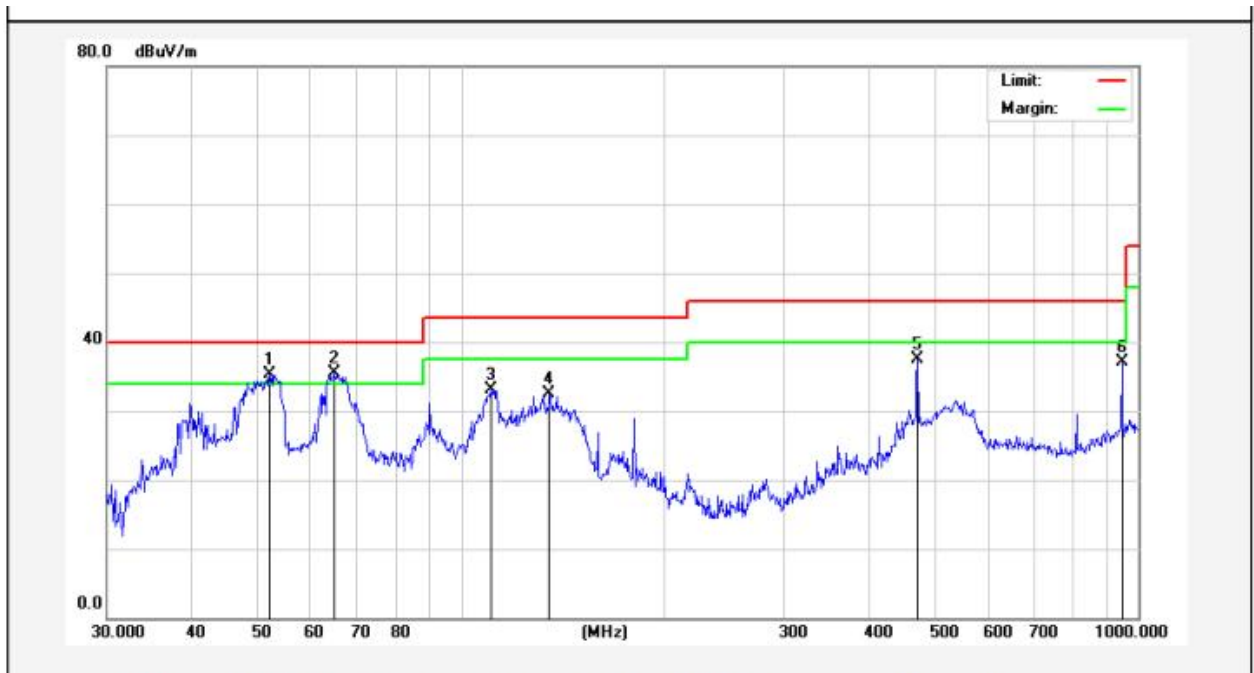
Test Mode: TM1
Distance: 3m
Power Source: DC 41.6V battery inside
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 25.1°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.4992	53.09	-17.70	35.39	40.00	-4.61	QP			
2	55.2207	53.18	-17.34	35.84	40.00	-4.16	QP			
3	66.0341	55.03	-20.12	34.91	40.00	-5.09	QP			
4	135.0319	56.43	-22.24	34.19	43.50	-9.31	QP			
5	180.0165	54.05	-20.88	33.17	43.50	-10.33	QP			
6	193.7727	54.01	-20.08	33.93	43.50	-9.57	QP			



Test Mode: TM1
Distance: 3m
Power Source: DC 41.6V battery inside
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 25.1°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	52.2079	52.40	-17.07	35.33	40.00	-4.67	QP			
2	64.8863	55.06	-19.58	35.48	40.00	-4.52	QP			
3	110.5687	51.90	-18.84	33.06	43.50	-10.44	QP			
4	135.0319	54.79	-22.24	32.55	43.50	-10.95	QP			
5	472.1759	49.28	-11.84	37.44	46.00	-8.56	QP			
6	945.4397	42.73	-5.69	37.04	46.00	-8.96	QP			

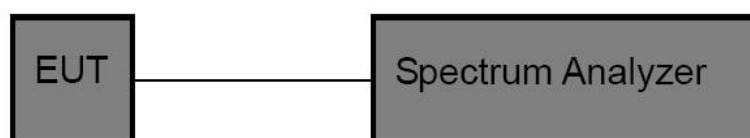


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

5.2. Test Setup



5.3. Test Procedure

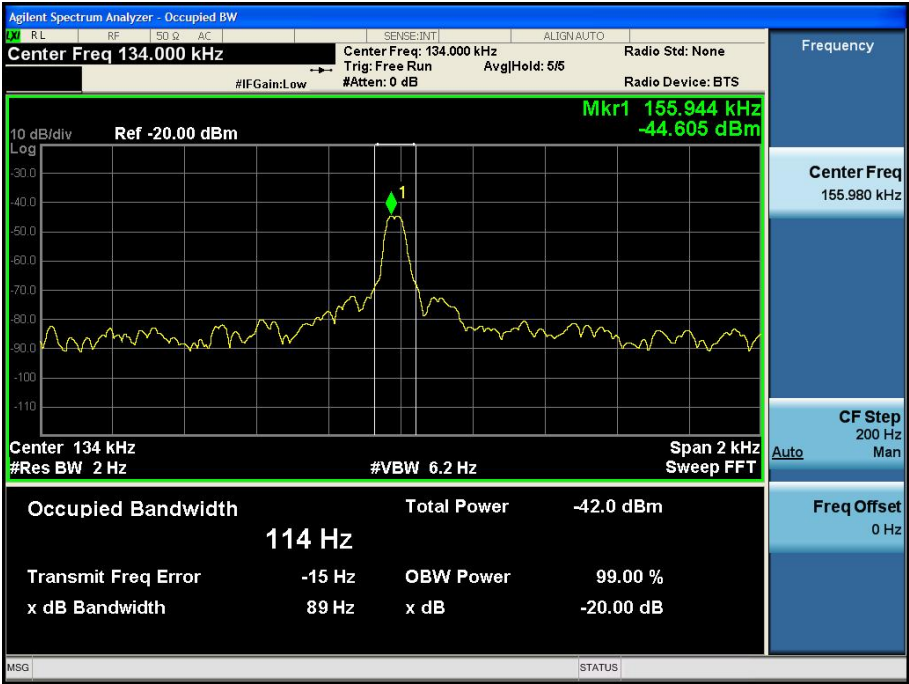
The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW $\geq$ 3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Data

Test Item	:	20dB Bandwidth	Test Mode	:	Continuously transmitting
Test Voltage	:	AC 120V/60Hz	Temperature	:	22.3°C
Test Result	:	PASS	Humidity	:	46%RH



Freq. (MHz)	Bandwidth (kHz)	Results
0.1340	0.089	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 -----

