

# FCC Test Report

**Applicant** : JMTek Industries( Shenzhen) Co.,Ltd

**Address** : 14G, Innovation Tech Building, Quanzhi  
Science and Technology innovation Park,  
ShaJing Street, Bao'an District, ShenZhen,  
China

**Product Name** : Power Polio

**Report Date** : Aug. 29, 2024



**Shenzhen Anbotek Compliance Laboratory Limited**

**Shenzhen Anbotek Compliance Laboratory Limited**

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# TEST REPORT

Applicant : JMtek Industries( Shenzhen) Co.,Ltd  
Manufacturer : JMtek Industries( Shenzhen) Co.,Ltd  
Product Name : Power Polio  
Model No. : NP100  
Trade Mark : N/A  
Input: 5V== 3A, 9V== 2A, 12V== 1.5A  
Output (USB-C): 5V== 3A, 9V== 2.22A, 12V== 1.67A  
Rating(s) : Wireless Output: 5W/7.5W/10W/15W Max  
USB-C+Wireless Output: 5V== 3A  
Battery Capacity: DC 3.7V, 10000mAh  
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

Jul. 05, 2024

Date of Test

Jul. 05, 2024 ~ Jul. 22, 2024

Prepared By

*Nianxiu Chen*

(Nianxiu Chen)

Approved &amp; Authorized Signer

*Edward Pan*

(Edward Pan)



### Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 29, 2024



## 1. General Information

### 1.1. Client Information

Applicant	:	JMTek Industries( Shenzhen) Co.,Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China
Manufacturer	:	JMTek Industries( Shenzhen) Co.,Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China
Factory	:	JMTek Industries( Shenzhen) Co.,Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China

### 1.2. Description of Device (EUT)

Product Name	:	Power Polio
Model No.	:	NP100
Trade Mark	:	N/A
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
<b>RF Specification</b>		
Operation Frequency	:	112-205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
<b>Remark:</b> 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.		



### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Wireless charging load	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W
Adapter	Model: MDY-11-EX Input: 100-240V~0.7A,50-60Hz USB-A output: 5V= 3A, 9V= 3A,12V= 2.25A, 20V= 1.35A, 11V= 3A

### 1.4. Description of Test Modes

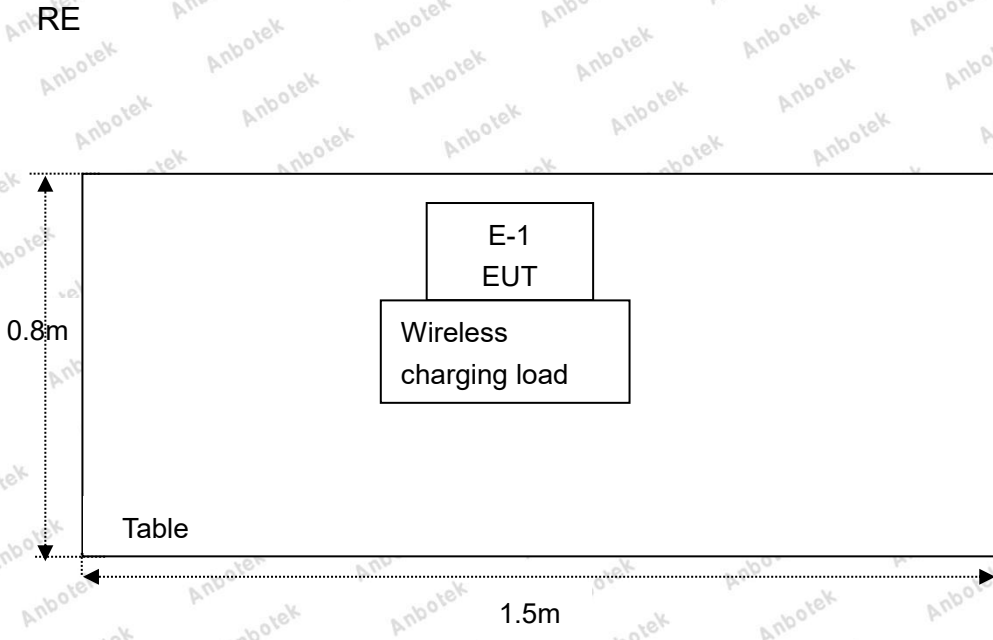
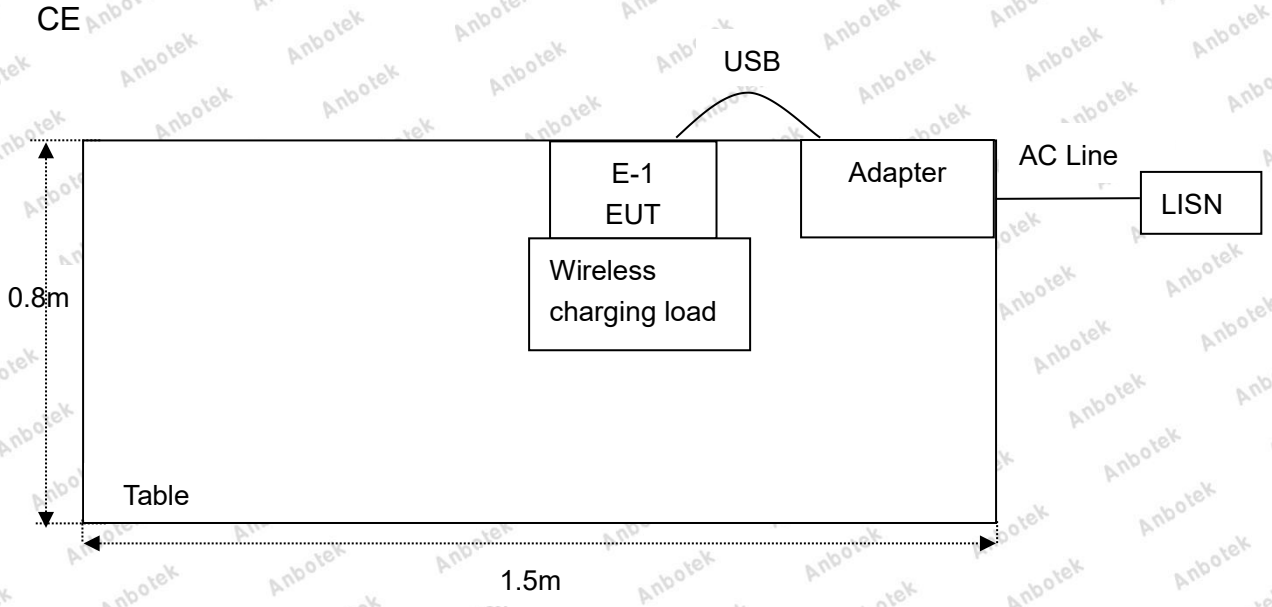
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Modes	Descriptions
TM1	Adapter+WTP Mode (5W 1% Load) (AC 120V, 60Hz for Adapter)
TM2	Adapter+WTP Mode (5W 50% Load) (AC 120V, 60Hz for Adapter)
TM3	Adapter+WTP Mode (5W 99% Load) (AC 120V, 60Hz for Adapter)
TM4	WTP Mode (5W 1% Load) (DC 3.7V Battery inside)
TM5	WTP Mode (5W 50% Load) (DC 3.7V Battery inside)
TM6	WTP Mode (5W 99% Load) (DC 3.7V Battery inside)
TM7	WTP Mode (7.5W 1% Load) (DC 3.7V Battery inside)
TM8	WTP Mode (7.5W 50% Load) (DC 3.7V Battery inside)
TM9	WTP Mode (7.5W 99% Load) (DC 3.7V Battery inside)
TM10	WTP Mode (10W 1% Load) (DC 3.7V Battery inside)
TM11	WTP Mode (10W 50% Load) (DC 3.7V Battery inside)
TM12	WTP Mode (10W 99% Load) (DC 3.7V Battery inside)
TM13	WTP Mode (15W 1% Load) (DC 3.7V Battery inside)
TM14	WTP Mode (15W 50% Load) (DC 3.7V Battery inside)
TM15	WTP Mode (15W 99% Load) (DC 3.7V Battery inside)
TM16	Standby Mode

Note: When the product is charging, the WPT can only reach a maximum of 5W.



**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
Occupied Bandwidth	925Hz
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.

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
15.251	20dB Bandwidth	PASS



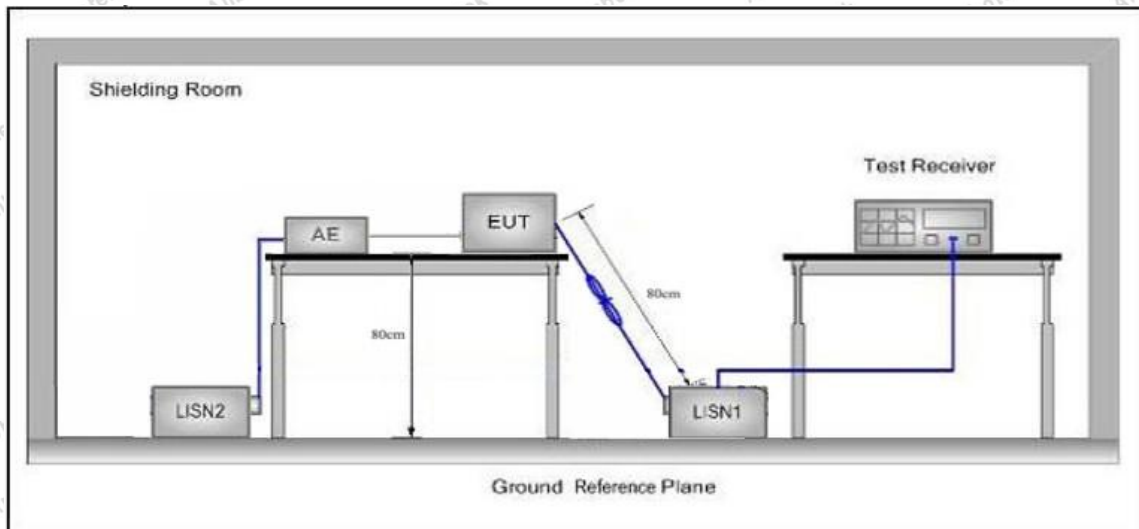
## 3. Conducted Emission Test

### 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

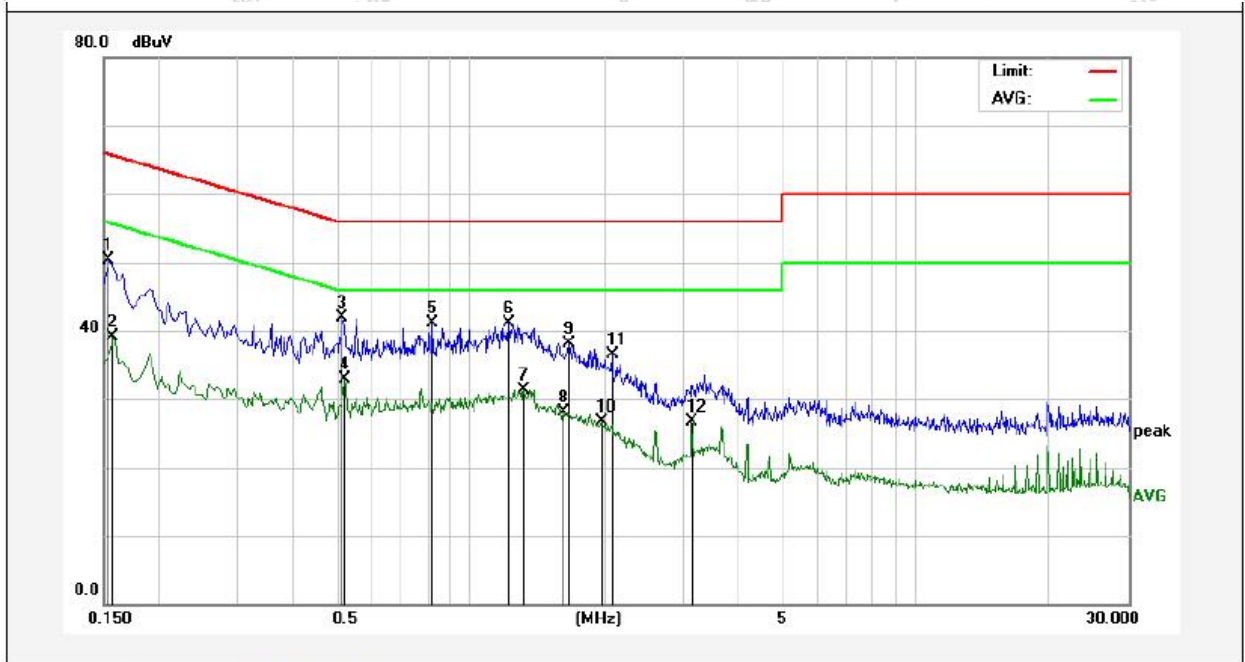
#### PASS

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: TM3  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Live Line  
 Temp.(°C)/Hum.(%RH): 24.9°C/53%RH

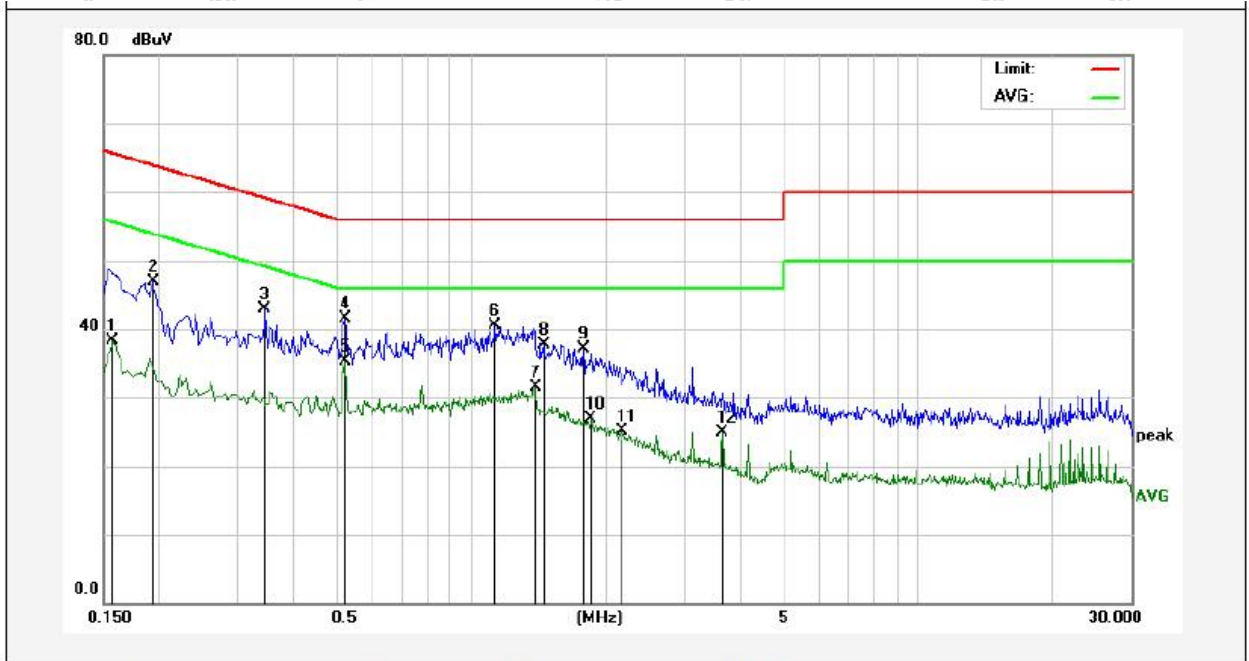


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	32.40	17.83	50.23	65.78	-15.55	QP	
2	0.1580	21.33	17.83	39.16	55.56	-16.40	AVG	
3	0.5180	23.98	17.85	41.83	56.00	-14.17	QP	
4	0.5220	15.04	17.85	32.89	46.00	-13.11	AVG	
5	0.8220	23.19	17.86	41.05	56.00	-14.95	QP	
6	1.2220	23.21	17.84	41.05	56.00	-14.95	QP	
7	1.3180	13.51	17.84	31.35	46.00	-14.65	AVG	
8	1.6180	10.32	17.84	28.16	46.00	-17.84	AVG	
9	1.6660	20.28	17.84	38.12	56.00	-17.88	QP	
10	1.9700	8.79	17.83	26.62	46.00	-19.38	AVG	
11	2.0860	18.58	17.83	36.41	56.00	-19.59	QP	
12	3.1380	8.79	17.84	26.63	46.00	-19.37	AVG	



### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: TM3  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 24.9°C/53%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	20.39	17.83	38.22	55.56	-17.34	AVG	
2	0.1940	29.07	17.83	46.90	63.86	-16.96	QP	
3	0.3460	25.18	17.82	43.00	59.06	-16.06	QP	
4	0.5220	23.67	17.85	41.52	56.00	-14.48	QP	
5	0.5220	17.50	17.85	35.35	46.00	-10.65	AVG	
6	1.1340	22.63	17.85	40.48	56.00	-15.52	QP	
7	1.3940	13.61	17.84	31.45	46.00	-14.55	AVG	
8	1.4540	19.86	17.84	37.70	56.00	-18.30	QP	
9	1.7900	19.28	17.84	37.12	56.00	-18.88	QP	
10	1.8500	9.02	17.83	26.85	46.00	-19.15	AVG	
11	2.1780	7.31	17.83	25.14	46.00	-20.86	AVG	
12	3.6460	7.07	17.85	24.92	46.00	-21.08	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

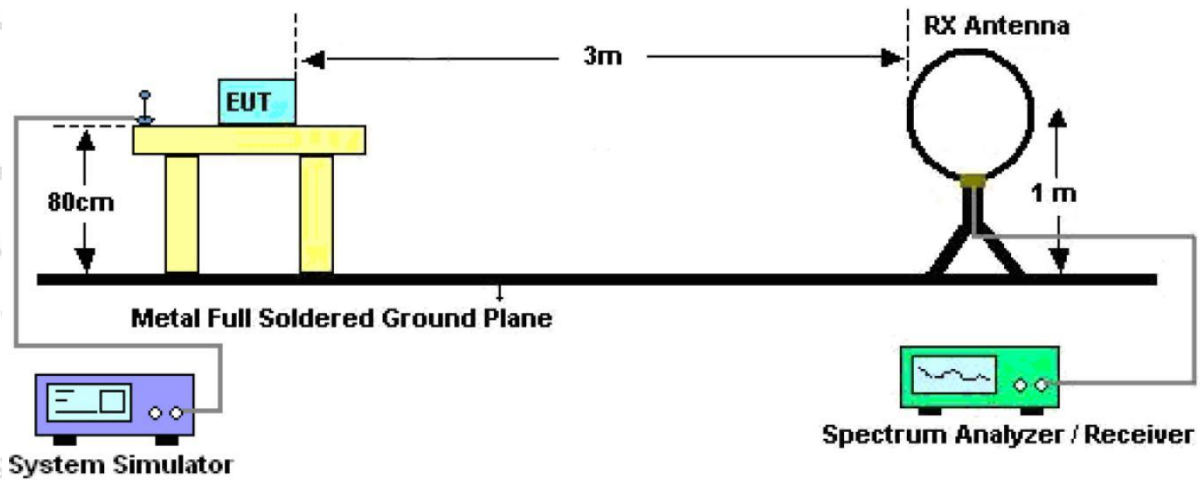


Figure 1. Below 30MHz



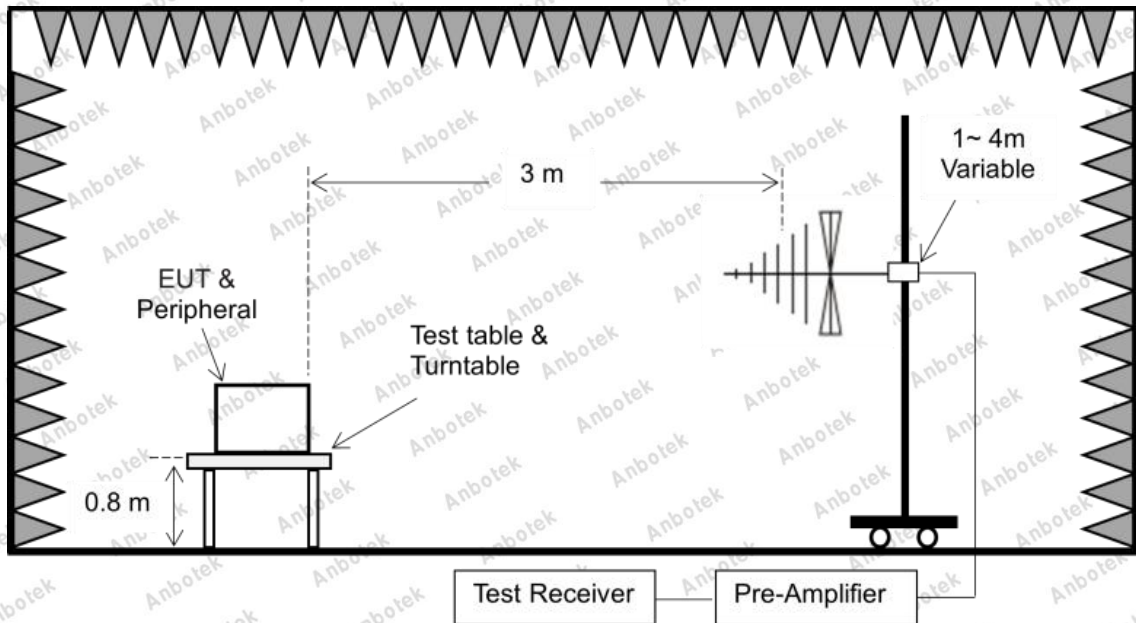


Figure 2. 30MHz to 1GHz

**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.

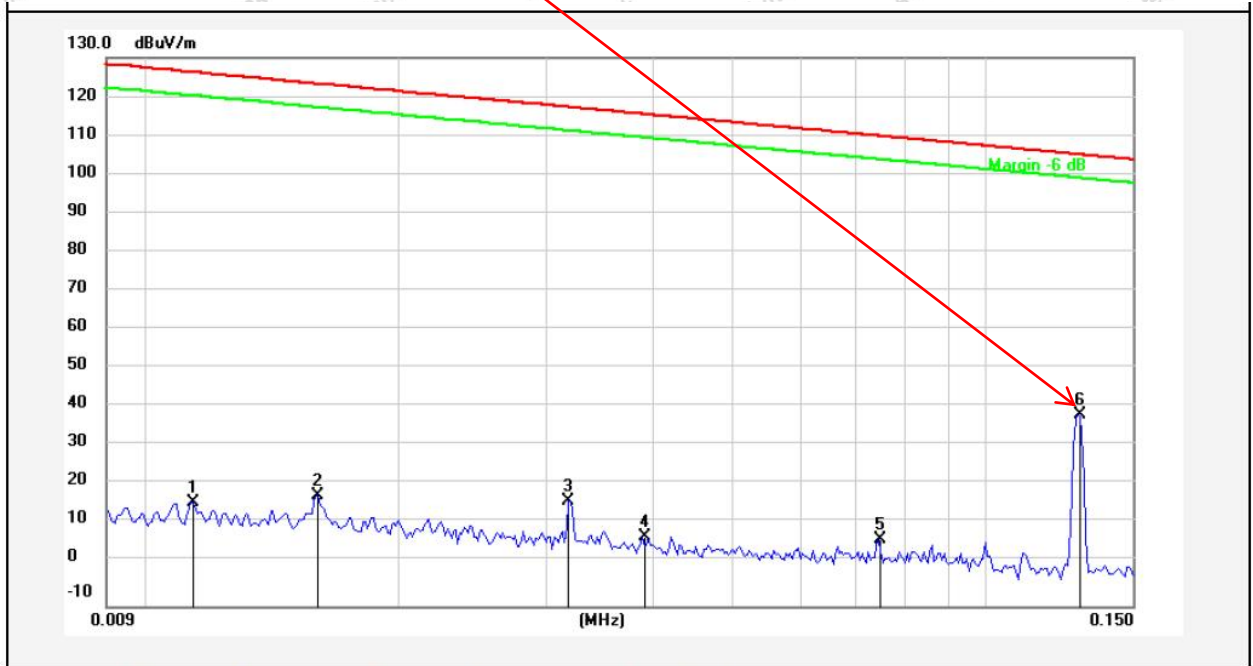
Please to see the following pages.





### Test Results (Between 9KHz – 150KHz)

Test Mode: TM15  
Distance: 3m  
Power Source: DC 3.7V Battery inside  
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH  
Fundamental

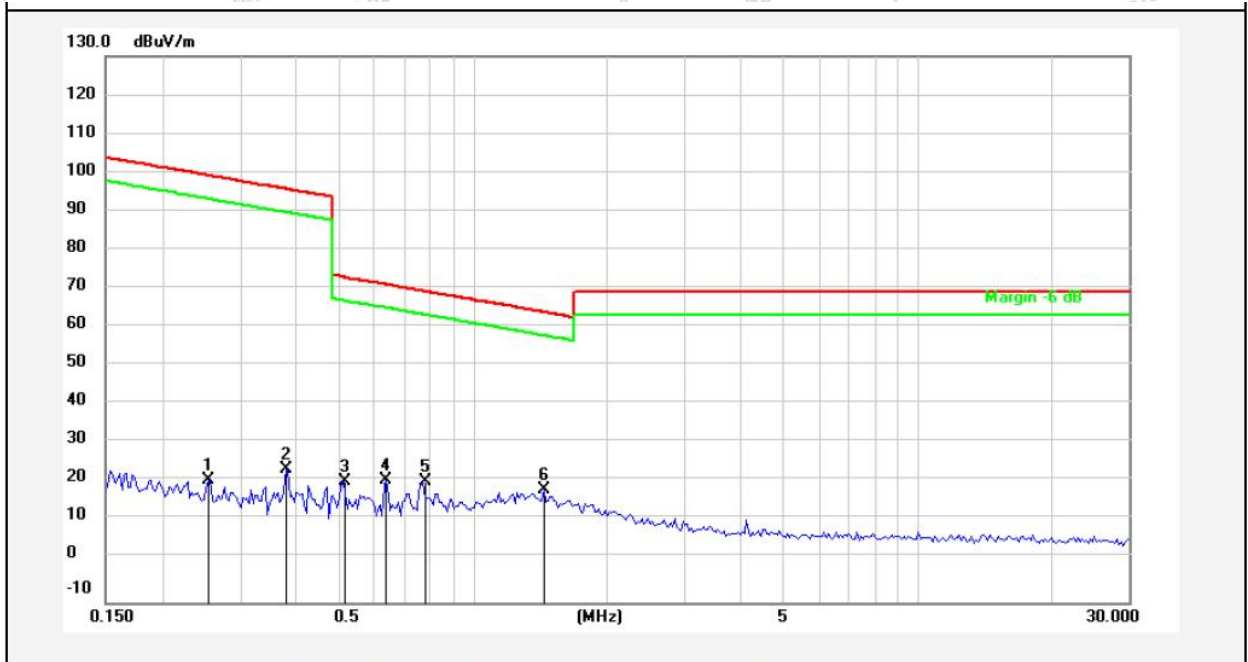


No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0114	-3.68	20.08	16.40	126.27	-109.87	peak			
2	0.0160	-2.05	20.30	18.25	123.34	-105.09	peak			
3	0.0319	-3.81	20.56	16.75	117.38	-100.63	peak			
4	0.0391	-12.65	20.43	7.78	115.63	-107.85	peak			
5	0.0747	-13.44	20.37	6.93	110.04	-103.11	peak			
6	0.1289	18.54	20.34	38.88	105.33	-66.45	peak			



### Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM15  
Distance: 3m  
Power Source: DC 3.7V Battery inside  
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



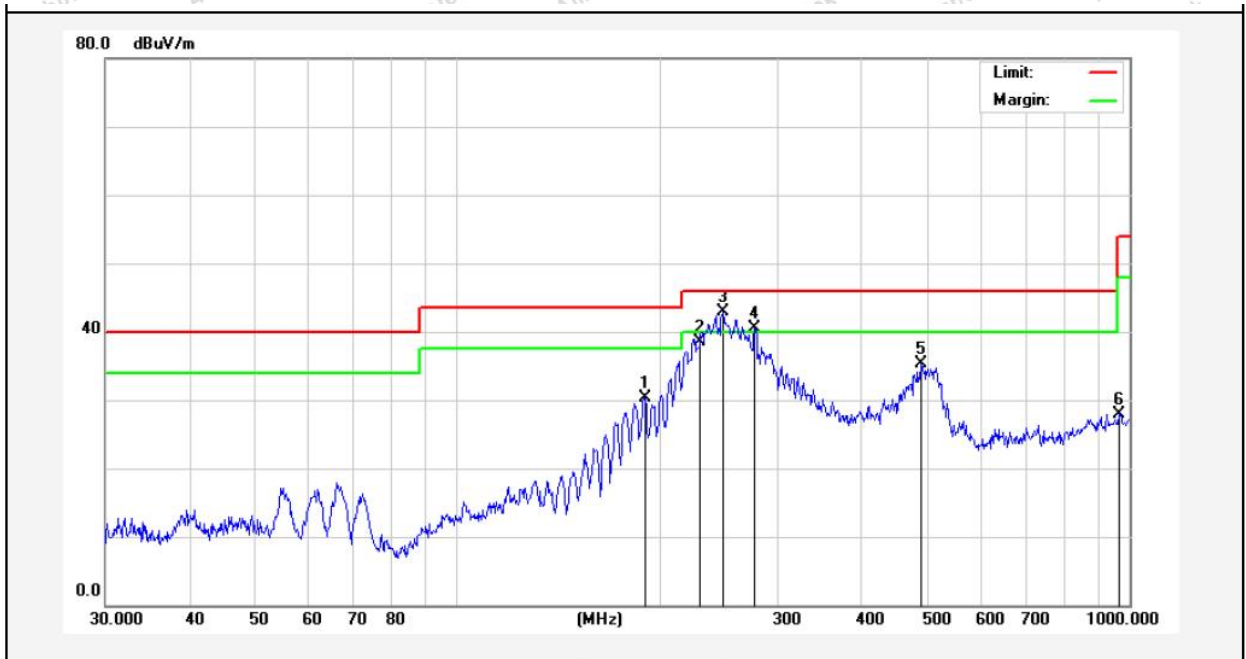
No.	Freq. (MHz)	Reading (dBuV)	Factor ( )	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.2548	1.19	20.30	21.49	99.44	-77.95	peak			
2	0.3810	3.94	20.28	24.22	95.97	-71.75	peak			
3	0.5128	0.73	20.27	21.00	73.41	-52.41	QP			
4	0.6404	1.04	20.27	21.31	71.48	-50.17	QP			
5	0.7752	0.59	20.25	20.84	69.83	-48.99	QP			
6	1.4483	-1.47	20.27	18.80	64.41	-45.61	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)

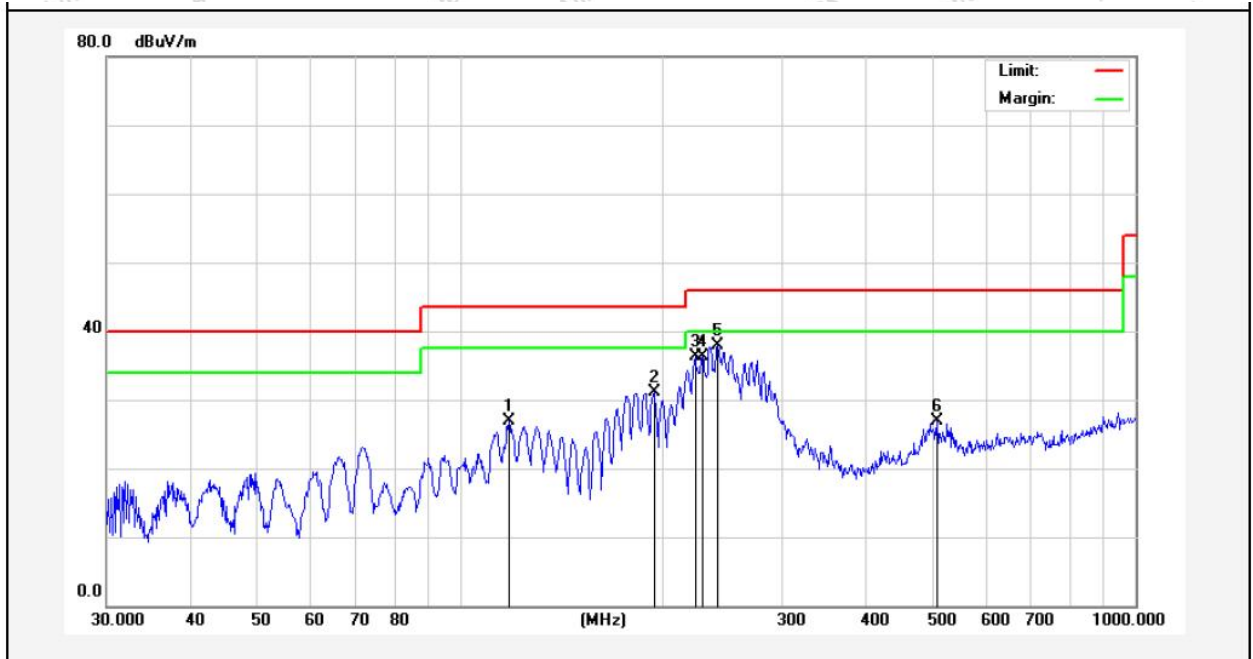
Test Mode: TM15  
Distance: 3m  
Power Source: DC 3.7V Battery inside  
Polarization: Horizontal  
Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	190.4050	50.84	-20.45	30.39	43.50	-13.11	QP			
2	229.3039	57.21	-18.66	38.55	46.00	-7.45	QP			
3	248.5519	60.61	-17.74	42.87	46.00	-3.13	QP			
4	277.0935	57.50	-17.05	40.45	46.00	-5.55	QP			
5	490.7447	47.84	-12.57	35.27	46.00	-10.73	QP			
6	965.5421	33.74	-5.84	27.90	54.00	-26.10	QP			



Test Mode: TM15  
 Distance: 3m  
 Power Source: DC 3.7V Battery inside  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 20.3°C/46%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	118.1862	47.28	-20.39	26.89	43.50	-16.61	QP			
2	193.7728	51.40	-20.31	31.09	43.50	-12.41	QP			
3	222.9502	55.18	-18.96	36.22	46.00	-9.78	QP			
4	228.4904	54.97	-18.70	36.27	46.00	-9.73	QP			
5	240.8304	55.92	-18.11	37.81	46.00	-8.19	QP			
6	508.2582	39.11	-12.22	26.89	46.00	-19.11	QP			

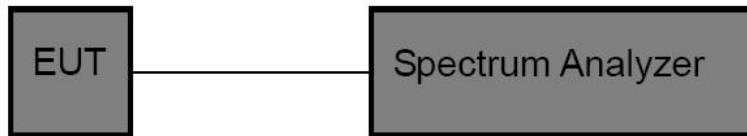


## 5. 20dB Occupy Bandwidth Test

### 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

1. Place the EUT on the table and set it in the continuously transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:  
 RBW = 220Hz  
 VBW= 680Hz  
 Span= 10kHz  
 Detector= Peak  
 Trace mode= Max hold.  
 Sweep- auto couple.
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

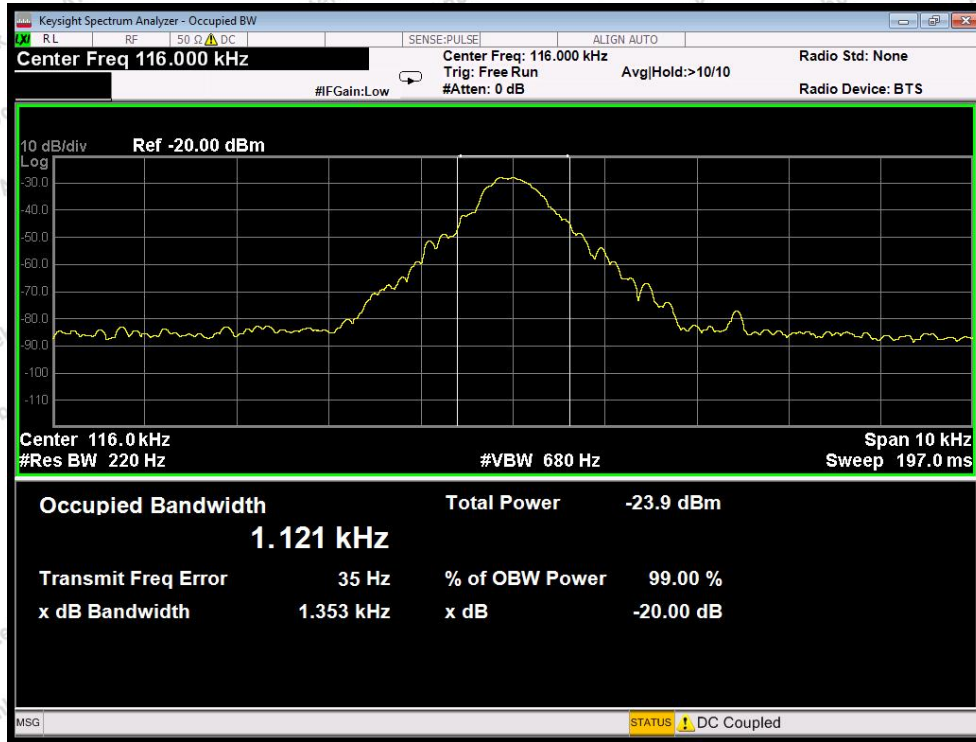
### 5.4. Test Data

Test Item	: 20dB Bandwidth	Test Mode	: Mode 5
Test Voltage	: DC 3.7V Battery inside	Temperature	: 23.4℃
Test Result	: PASS	Humidity	: 56%RH



Mode	Freq. (kHz)	20dB Bandwidth (kHz)	Results
TX Mode	116.0	1.353	PASS

### 20dB Bandwidth



## 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 -----

