

# FCC Test Report

**Report No.** : 1811C50127812501

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**Applicant** : Alliance Sports Group., LP

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**Address** : 700 Henrietta Creek Rd. Roanoke, TX 76262,  
United States

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**Product Name** : POWER STATION 1600

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**Report Date** : 2025-06-23

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## Shenzhen Anbotek Compliance Laboratory Limited



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# TEST REPORT

Applicant : Alliance Sports Group., LP  
Manufacturer : IE POWER CO., LTD.  
Product Name : POWER STATION 1600  
Model No. : NP1600PS  
Trade Mark : N/A  
Rating(s) : Please refer to page 6

**Test Standard(s)** : FCC Part15 Subpart C  
**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 2025-05-16

Date of Test 2025-05-16 to 2025-06-12

Prepared By



(Lene Chen)

Approved & Authorized Signer



(Hugo Chen)

## Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-06-23

## 1. General Information

### 1.1. Client Information

Applicant	:	Alliance Sports Group., LP
Address	:	700 Henrietta Creek Rd. Roanoke, TX 76262, United States
Manufacturer	:	IE POWER CO., LTD.
Address	:	NO. 268 Room No.3-201 Moo.7, Bang Sao Thong Subdistrict, Bang Sao Thong District, Samut Prakan Province 10570
Factory	:	IE POWER CO., LTD.
Address	:	NO. 268 Room No.3-201 Moo.7, Bang Sao Thong Subdistrict, Bang Sao Thong District, Samut Prakan Province 10570

### 1.2. Description of Device (EUT)

Product Name	:	POWER STATION 1600
Model No.	:	NP1600PS
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	:	112-205kHz
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):

**NEBO****PINNACLE™ 1600  
POWER STATION**

- Model: NP1600PS
- SKU: NEB-PST-0007
- Battery Energy: 1228.8Wh 51.2V
- Solar Input: 12-75VDC 25A 800W max
- AC Input: 100-130VAC/10A 60Hz, 1200W max
- Total AC and DC Input: 1200W max
- AC Socket(x4) Output: 120VAC 60Hz 1600W, Total: 1600W 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: 1760W max
- Charge Temperature: 32-104°F(0-40°C)
- Discharge Temperature: 14-104°F(-10-40°C)
- Working Humidity: 10%~85%

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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: 2BASYNP1600PST



Li-ion



CONFORMED TO ANSI/CAN/UL 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	/

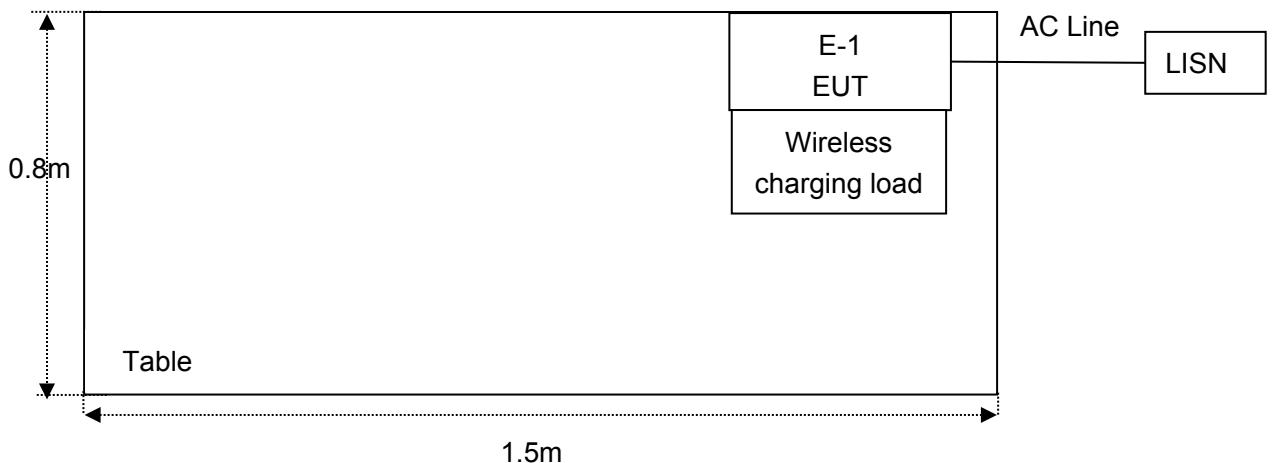
### 1.4. Description of Test Modes

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.

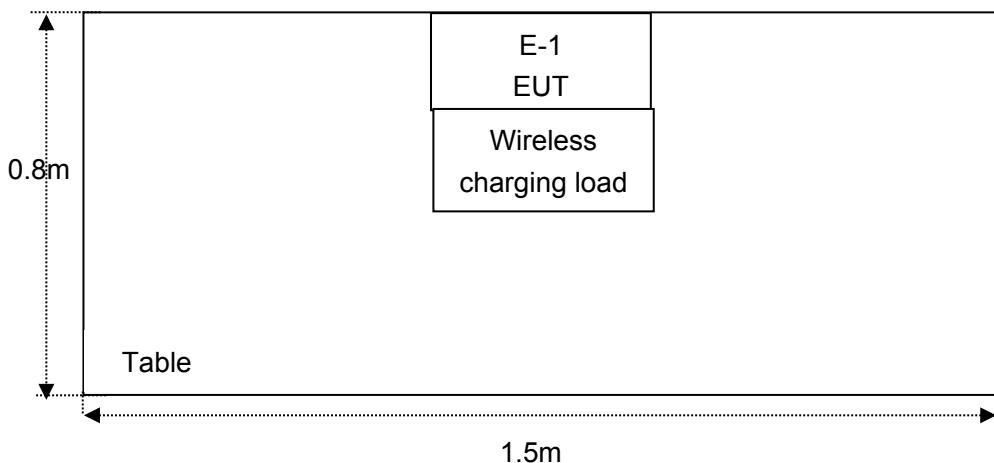
Pretest Modes	Descriptions
TM1	Charging + WPT Mode (10W 1% Load)
TM2	Charging + WPT Mode (10W 50% Load)
TM3	Charging + WPT Mode (10W 99% Load)
TM4	WPT Mode (10W 1% Load)
TM5	WPT Mode (10W 50% Load)
TM6	WPT Mode (10W 99% Load)
TM7	Standby Mode

**1.5. Description Of Test Setup**

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## 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	2024-09-09	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-02-21	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year

## 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
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

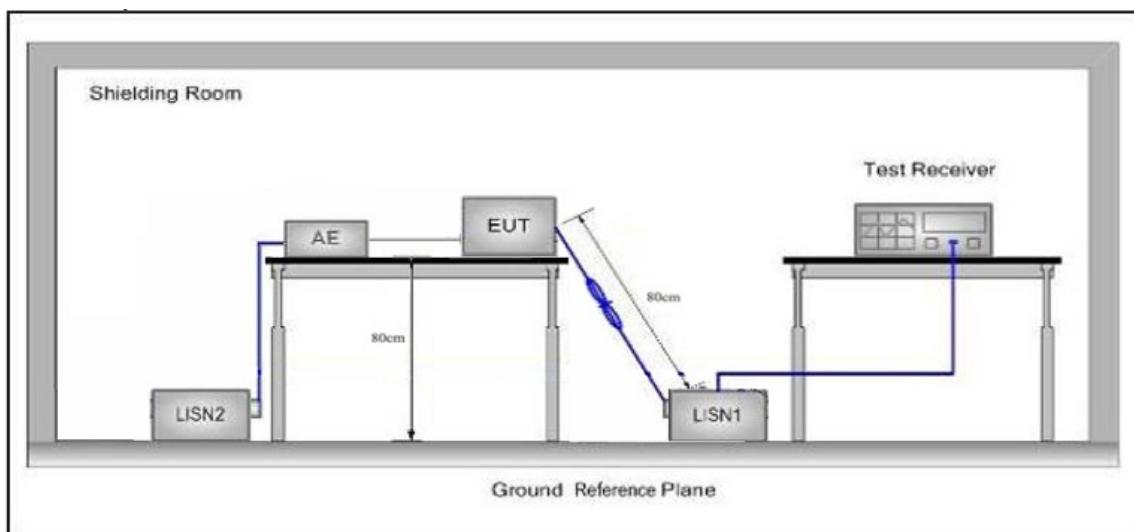
### 3. Conducted Emission Test

#### 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 on Conducted Emission Measurement.

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

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

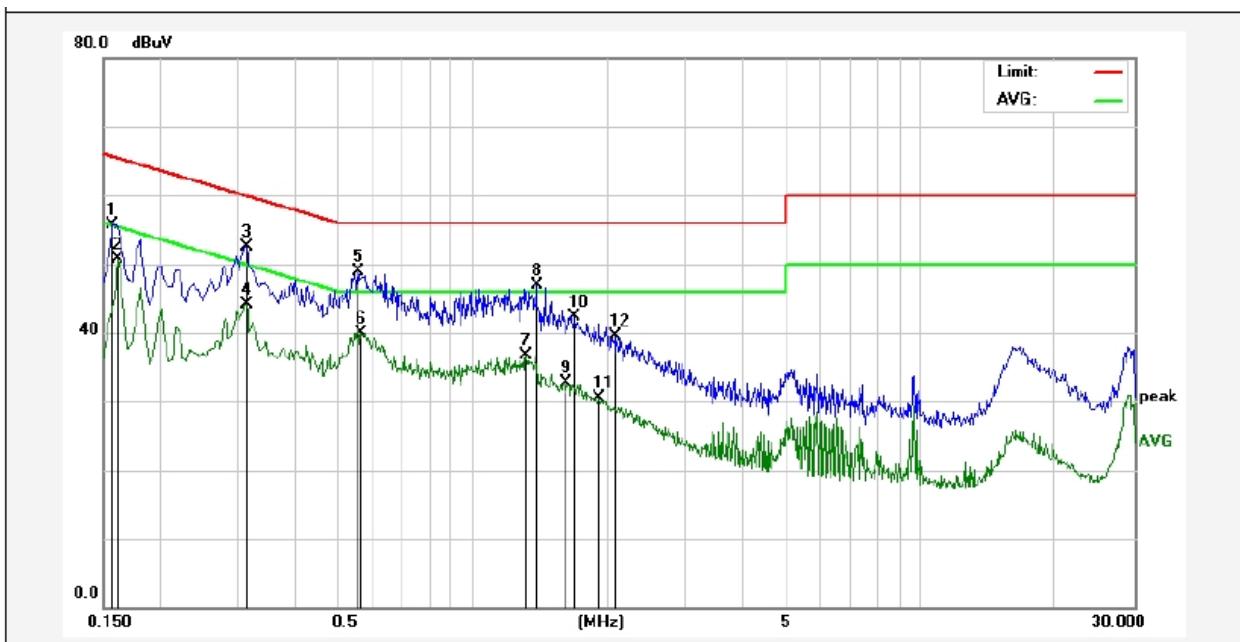
#### 3.4. Test Data

##### 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): 24.6°C/59%RH

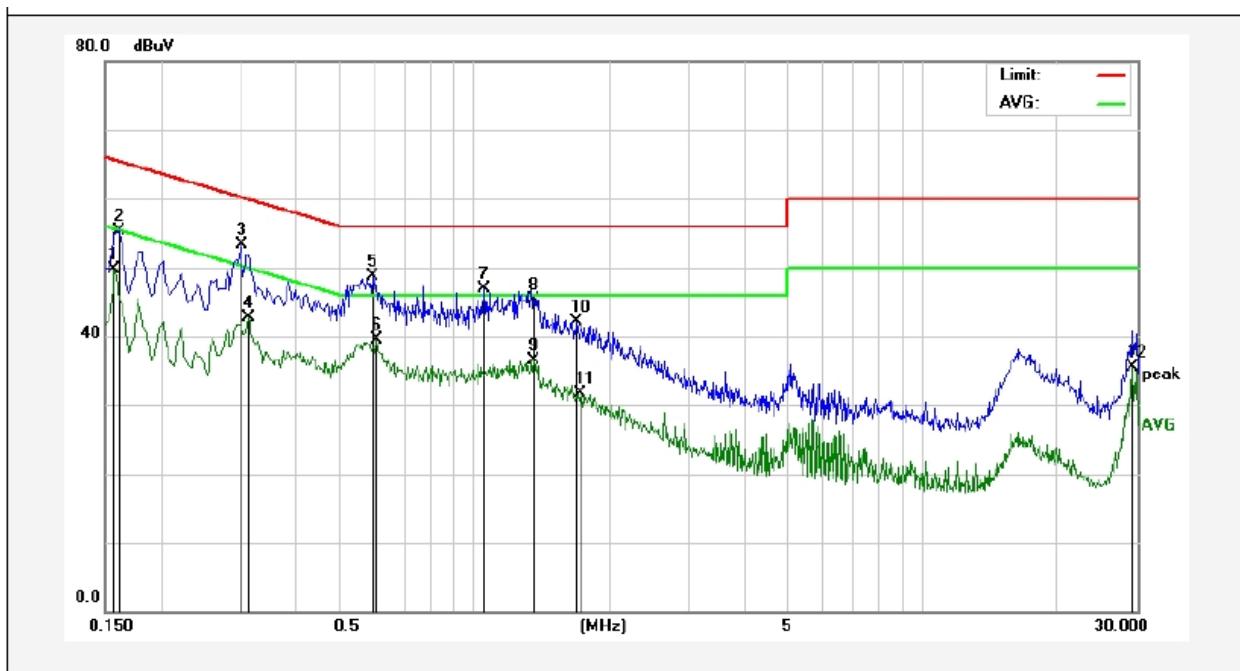


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	47.72	8.07	55.79	65.56	-9.77	QP	
2	0.1620	42.68	8.07	50.75	55.36	-4.61	AVG	
3	0.3140	44.45	8.09	52.54	59.86	-7.32	QP	
4	0.3140	36.11	8.09	44.20	49.86	-5.66	AVG	
5	0.5580	40.72	8.11	48.83	56.00	-7.17	QP	
6	0.5660	31.83	8.10	39.93	46.00	-6.07	AVG	
7	1.3180	28.68	8.08	36.76	46.00	-9.24	AVG	
8	1.3900	38.73	8.08	46.81	56.00	-9.19	QP	
9	1.6260	24.58	8.07	32.65	46.00	-13.35	AVG	
10	1.6980	34.24	8.07	42.31	56.00	-13.69	QP	
11	1.9260	22.38	8.05	30.43	46.00	-15.57	AVG	
12	2.0820	31.53	8.05	39.58	56.00	-16.42	QP	

Note: Result = Reading + Factor    Over Limit = Result - Limit

## Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: TM1  
 Test Specification: AC 120V/60Hz  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 24.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	41.55	8.07	49.62	55.56	-5.94	AVG	
2	0.1620	47.23	8.07	55.30	65.36	-10.06	QP	
3	0.3020	45.13	8.09	53.22	60.19	-6.97	QP	
4	0.3140	34.61	8.09	42.70	49.86	-7.16	AVG	
5	0.5940	40.53	8.10	48.63	56.00	-7.37	QP	
6	0.6060	31.31	8.10	39.41	46.00	-6.59	AVG	
7	1.0500	38.87	8.10	46.97	56.00	-9.03	QP	
8	1.3540	37.20	8.08	45.28	56.00	-10.72	QP	
9	1.3540	28.41	8.08	36.49	46.00	-9.51	AVG	
10	1.6900	34.11	8.07	42.18	56.00	-13.82	QP	
11	1.7260	23.58	8.07	31.65	46.00	-14.35	AVG	
12	29.3300	27.45	8.13	35.58	50.00	-14.42	AVG	

Note: Result = Reading + Factor    Over Limit = Result - Limit

## 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

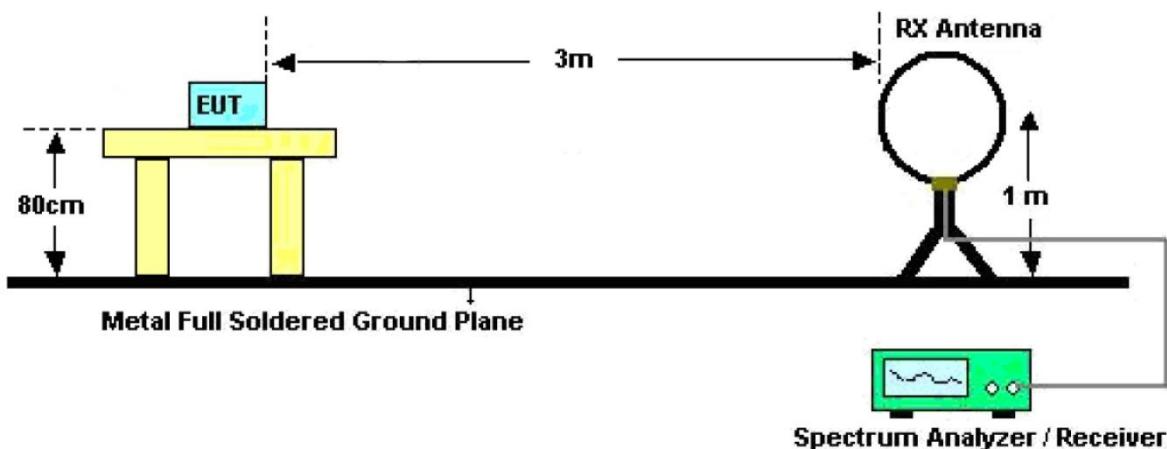


Figure 1. Below 30MHz

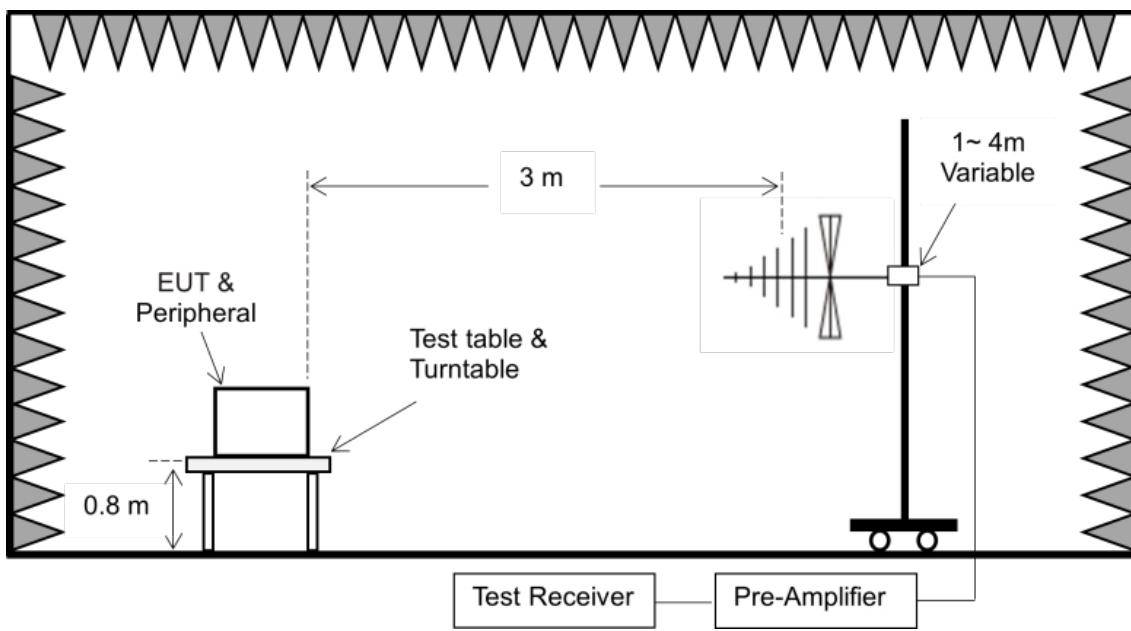


Figure 2. 30MHz to 1GHz

#### 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

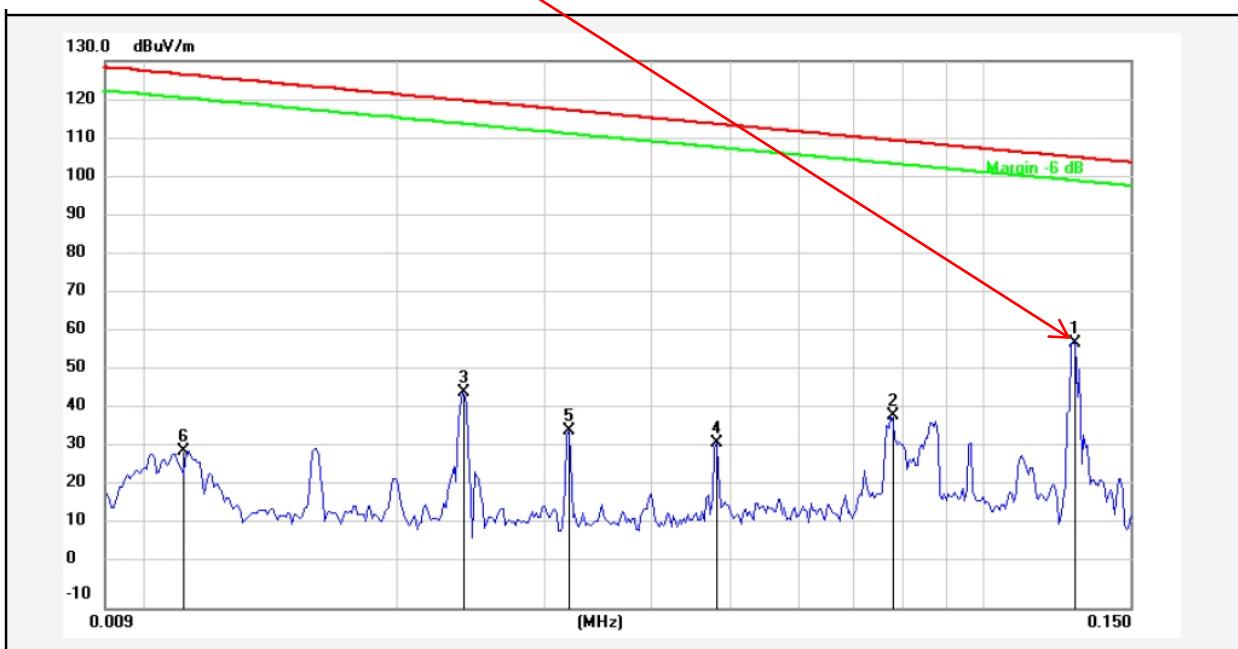
##### PASS

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: TM4  
 Distance: 3m  
 Power Source: DC 51.2V Battery inside  
 Polarization: Coplane  
 Temp.(°C)/Hum.(%RH): 25.1°C/49%RH  
 Fundamental

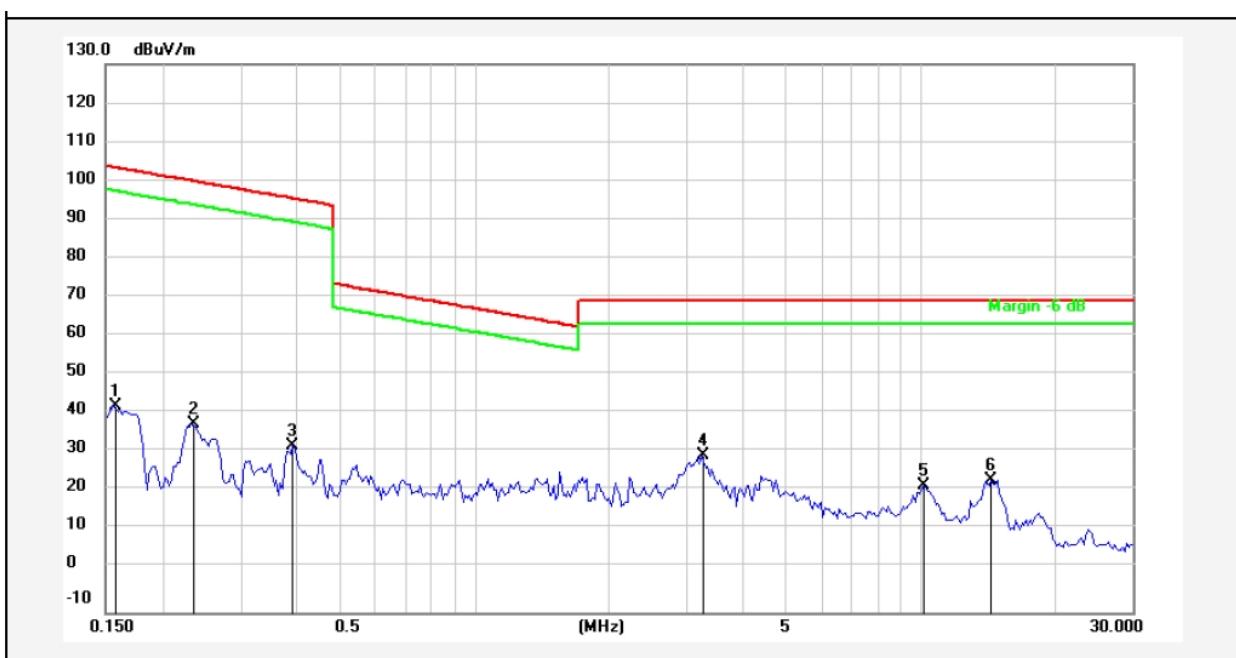


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.1190	37.45	20.34	57.79	105.34	-47.55	peak	
2	0.0777	18.74	20.36	39.10	109.70	-70.60	peak	
3	0.0240	24.60	20.38	44.98	119.84	-74.86	peak	
4	0.0480	11.86	20.42	32.28	113.86	-81.58	peak	
5	0.0320	14.81	20.56	35.37	117.36	-81.99	peak	
6	0.0111	10.11	20.07	30.18	126.50	-96.32	peak	

Note: Result = Reading + Factor      Over Limit = Result - Limit

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

Test Mode: TM4  
 Distance: 3m  
 Power Source: DC 51.2V Battery inside  
 Polarization: Coplane  
 Temp.(°C)/Hum.(%RH): 25.1°C/49%RH



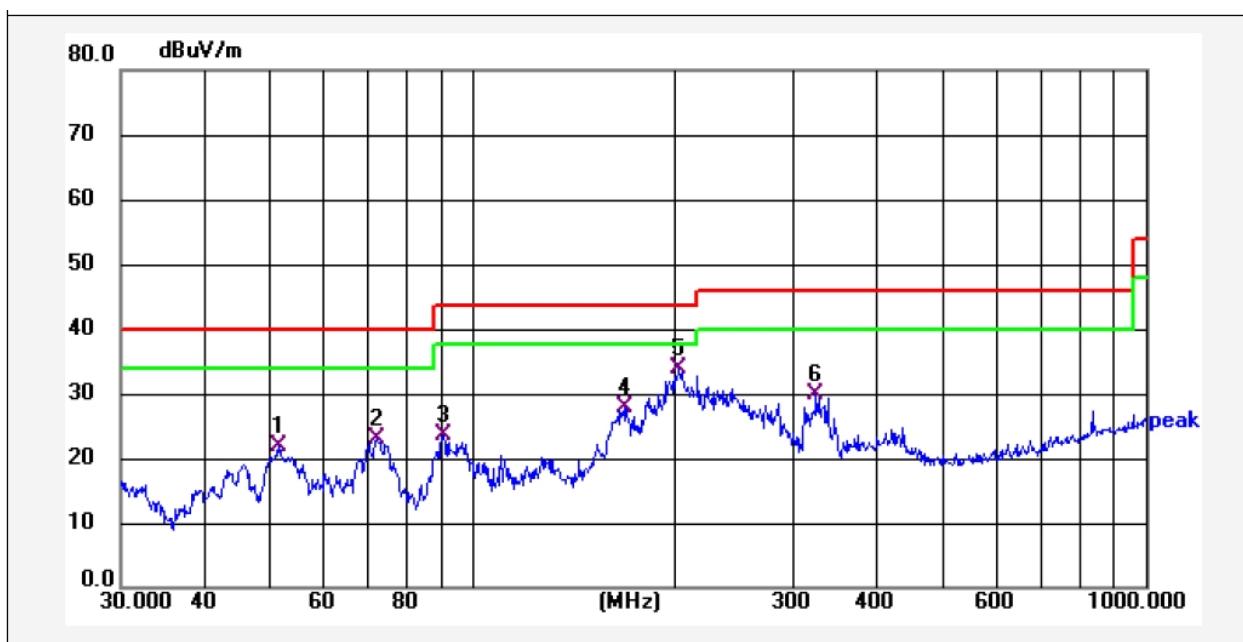
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.1565	22.34	20.33	42.67	103.65	-60.98	peak	
2	0.2341	17.88	20.31	38.19	100.18	-61.99	peak	
3	0.3933	12.38	20.28	32.66	95.70	-63.04	peak	
4	3.2411	9.77	20.33	30.10	69.50	-39.40	peak	
5	10.1791	2.04	20.51	22.55	69.50	-46.95	peak	
6	14.4404	3.29	20.54	23.83	69.50	-45.67	peak	

Note: Result = Reading + Factor      Over Limit = Result - Limit

**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)**

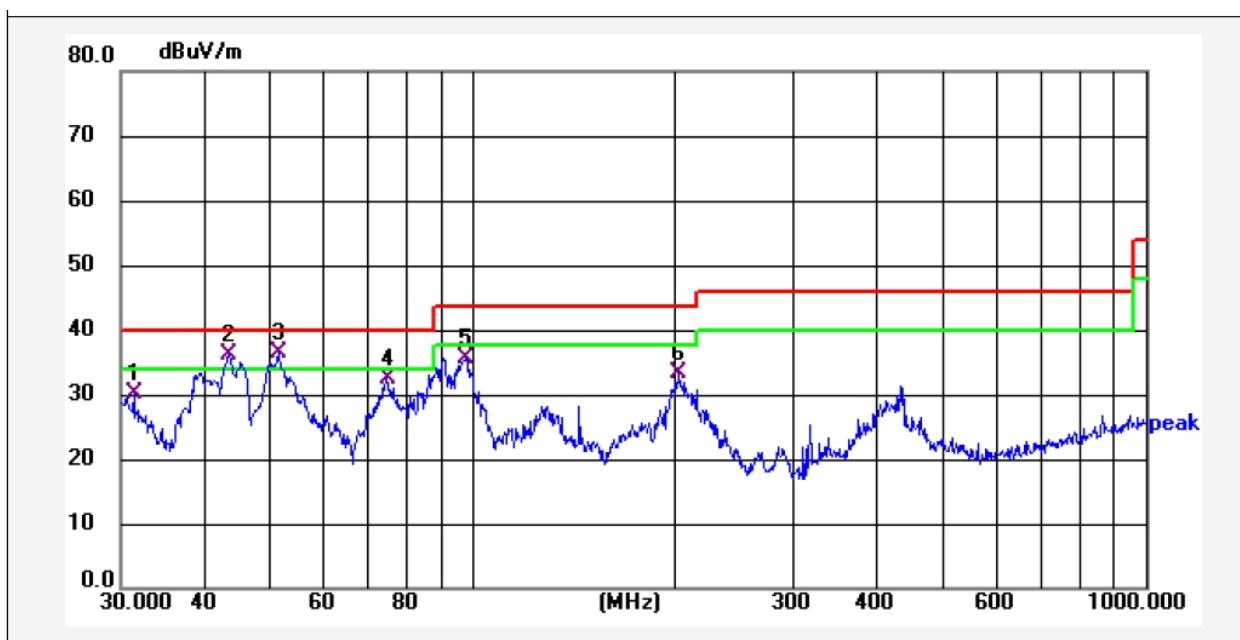
Test Mode: TM4  
 Distance: 3m  
 Power Source: DC 51.2V Battery inside  
 Polarization: Horizontal  
 Temp.(°C)/Hum.(%RH): 24.4°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	51.707	45.55	-23.60	21.95	40.00	-18.05	QP	
2	72.274	51.32	-28.22	23.10	40.00	-16.90	QP	
3	90.617	50.14	-26.54	23.60	43.50	-19.90	QP	
4	168.857	53.91	-26.17	27.74	43.50	-15.76	QP	
5	203.077	57.78	-24.00	33.78	43.50	-9.72	QP	
6	324.456	50.96	-21.07	29.89	46.00	-16.11	QP	

Note: Result = Reading + Factor      Over Limit = Result - Limit

Test Mode: TM4  
 Distance: 3m  
 Power Source: DC 51.2V Battery inside  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 24.4°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	31.427	56.42	-26.33	30.09	40.00	-9.91	QP	
2	43.429	59.92	-23.83	36.09	40.00	-3.91	QP	
3	51.661	59.96	-23.61	36.35	40.00	-3.65	QP	
4	74.657	61.04	-28.57	32.47	40.00	-7.53	QP	
5	97.456	58.69	-23.22	35.47	43.50	-8.03	QP	
6	203.434	58.00	-24.83	33.17	43.50	-10.33	QP	

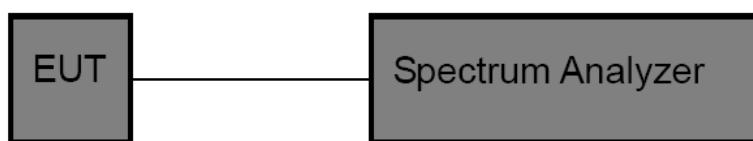
Note: Result = Reading + Factor      Over Limit = Result - Limit

## 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



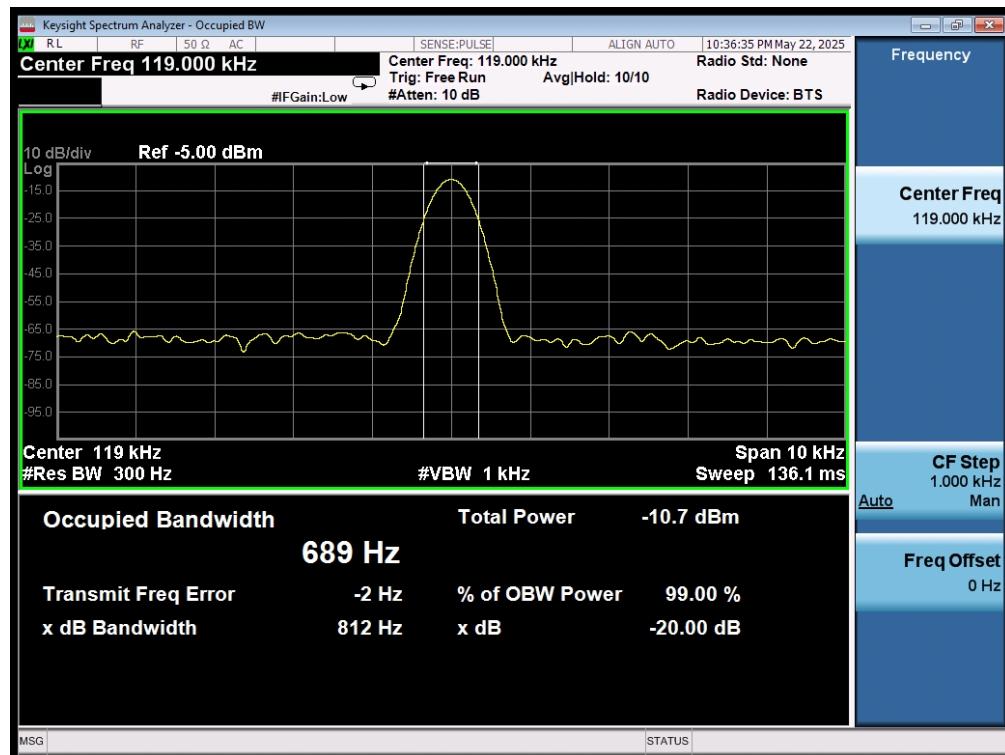
### 5.3. Test Procedure

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

### 5.4. Test Data

Temperature:	24.3 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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Freq. (MHz)	Bandwidth (kHz)	Results
0.1190	0.812	PASS



Note: The measured signal is Cw-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

## 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 -----