

FCC RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant : Ningbo Ruihua Electronics Plastics Co., Ltd.
Address : 49 ZHENNAN ROAD, DITANG STREET, YUYAO, NINGBO, ZHEJIANG PROVINCE, China
Manufacturer/Factory : Ningbo Ruihua Electronics Plastics Co., Ltd.
Address : 49 ZHENNAN ROAD, DITANG STREET, YUYAO, NINGBO, ZHEJIANG PROVINCE, China
E.U.T. : Power Station
Brand Name : N/A
Model No. : PS1003
FCC ID : 2AT5S-PS1003
Measurement Standard : FCC PART 15 Subpart C
Date of Receiver : July 23, 2019
Date of Test : July 26, 2019 to November 28, 2019
Date of Report : November 28, 2019

This Test Report is Issued Under the Authority of :

Prepared by



Sundiy Jiang / Engineer

Approved & Authorized Signer



Ion Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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Revision History of This Test Report

Report Number	Description	Issued Date
NTC1907268FV00	Initial Issue	2019-11-28

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product name	: Power Station
Main model	: PS1003
Additional model	: N/A
Brand name	: N/A
Rating	: AC Input: 120V/60Hz, AC Output: 120V/60Hz , max 1440W USB Output: Two sets 5V, 2.4A(Single) Wireless Changing: 10W max
Test voltage	: AC 120V/60Hz
Software version	: V1.0
Hardware version	: V1.0
I/O Port	: AC Input *1 AC Output *9 USB Output * 4
Note	: N/A

Technical Specification (Wireless Charging):

Frequency Range	: 110.5-205KHz
Test Channel	: 124.30KHz
Type of Modulation	: ASK
Type of Antenna	: induction coil
Antenna Gain	: 0 dBi

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AT5S-PS1003** filing to comply with FCC Part 15, Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

Inductive load : Provided by the laboratory

1.6 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018
 The certificate is valid until August 13, 2024
 The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
 The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017
 The certificate is valid until December 31, 2019
 The Laboratory has been assessed and proved to be in compliance with ISO17025
 The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
 The Designation Number is CN1214
 Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017
 The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.
 (Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science and Technology
 Park, Hongtu Road, Nancheng District, Dongguan
 City, Guangdong Province, China

1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.35	20dB Bandwidth	$\pm 1.42 \times 10^{-4}\%$	Compliant
§15.207 (a)	AC Power Conducted Emission	$\pm 1.06\text{dB}$	Compliant
§15.209	Radiated Emission	$\pm 4.60\text{dB}$	Compliant

1.8 Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and normal mode is programmed. The Lowest, middle and highest channel were chosen for testing.

2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

3.1 Test SET-UP (Block Diagram of Configuration)



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Web: <http://www.ntc-c.com>

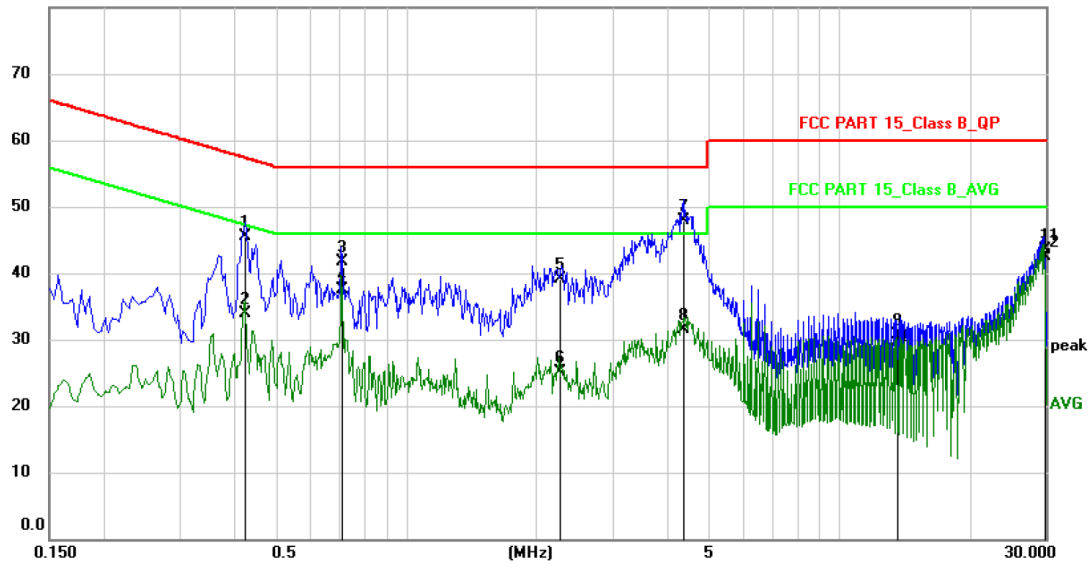
Conducted Emission Measurement

File :PS1003
80.0 dBuV

Data :#9

Date: 2019/8/12

Time: 16:14:56



Site: Phase: **L1** Temperature: 26
Limit: FCC PART 15_Class B_QP Power: AC120V/60Hz Humidity: 50 %
EUT: Power Station
M/N: PS1003
Mode: TX
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4259	34.98	10.62	45.60	57.33	-11.73	QP	
2		0.4259	23.28	10.62	33.90	47.33	-13.43	AVG	
3		0.7100	31.17	10.63	41.80	56.00	-14.20	QP	
4		0.7100	26.97	10.63	37.60	46.00	-8.40	AVG	
5		2.2500	28.45	10.65	39.10	56.00	-16.90	QP	
6		2.2500	14.55	10.65	25.20	46.00	-20.80	AVG	
7		4.3818	37.24	10.66	47.90	56.00	-8.10	QP	
8		4.3818	20.94	10.66	31.60	46.00	-14.40	AVG	
9		13.6179	20.13	10.67	30.80	60.00	-29.20	QP	
10		13.6179	17.63	10.67	28.30	50.00	-21.70	AVG	
11		29.8338	32.82	10.68	43.50	60.00	-16.50	QP	
12	*	29.8338	31.82	10.68	42.50	50.00	-7.50	AVG	



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Conducted Emission Measurement

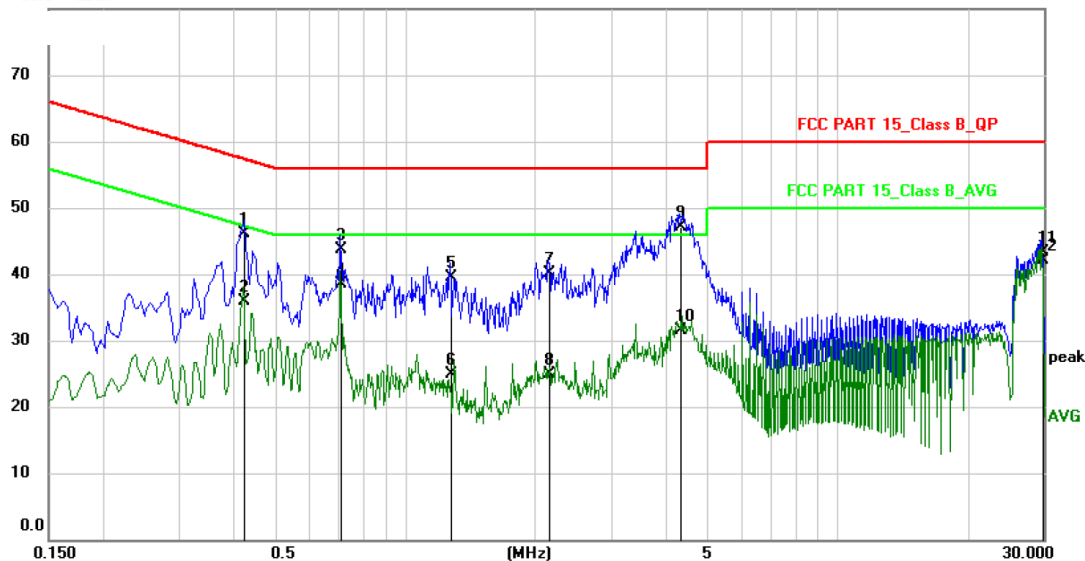
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Data :#10

Date: 2019/8/12

Time: 16:21:59

80.0 dBuV



Site

Phase: **N**

Temperature: 26

Limit: FCC PART 15_Class B_QP

Power: AC120V/60Hz

Humidity: 50 %

EUT: Power Station

M/N: PS1003

Mode: TX

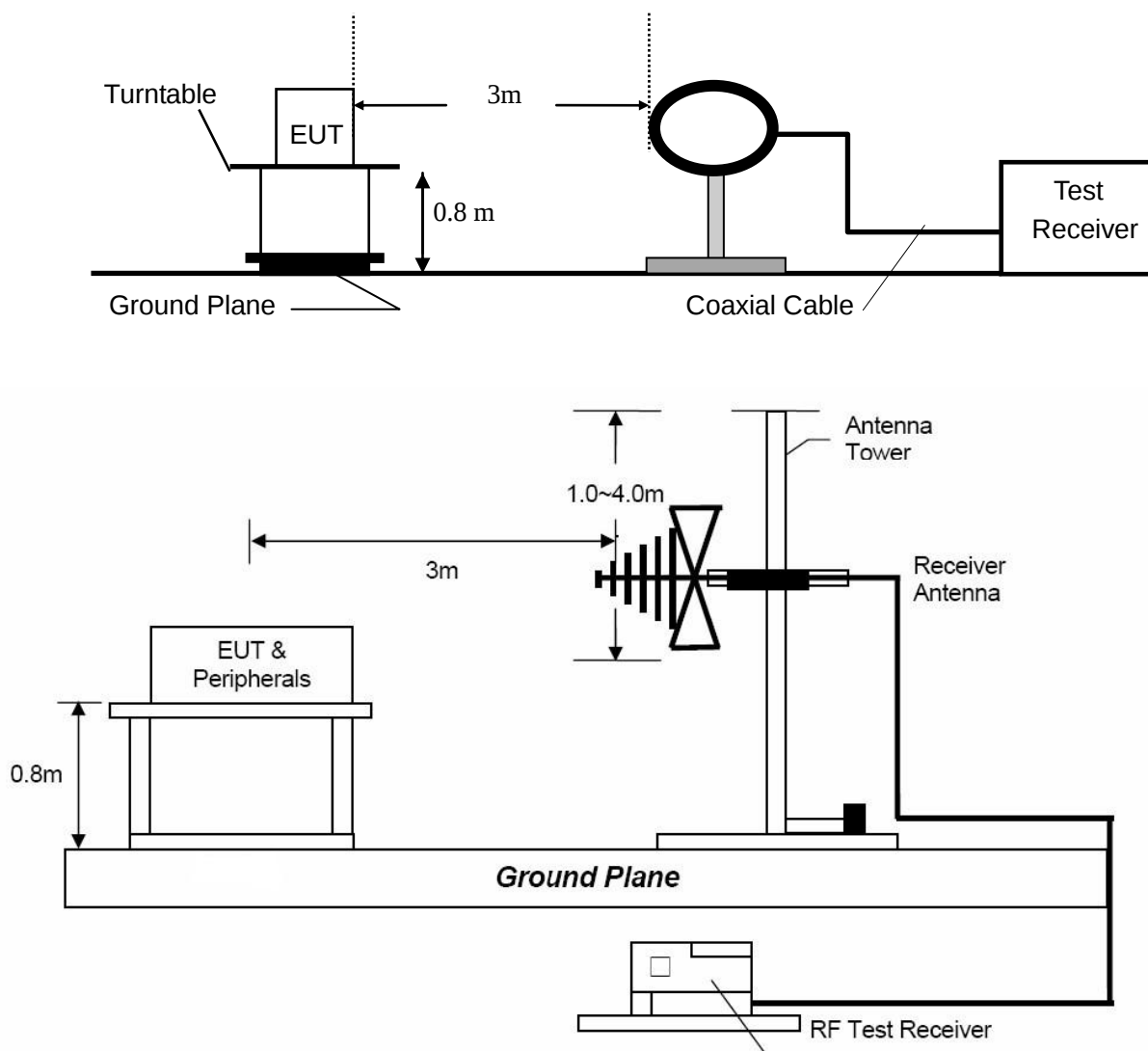
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4219	35.48	10.62	46.10	57.41	-11.31	QP	
2		0.4219	25.38	10.62	36.00	47.41	-11.41	AVG	
3		0.7100	33.17	10.63	43.80	56.00	-12.20	QP	
4	*	0.7100	27.87	10.63	38.50	46.00	-7.50	AVG	
5		1.2700	28.95	10.65	39.60	56.00	-16.40	QP	
6		1.2700	14.25	10.65	24.90	46.00	-21.10	AVG	
7		2.1459	29.55	10.65	40.20	56.00	-15.80	QP	
8		2.1459	14.35	10.65	25.00	46.00	-21.00	AVG	
9		4.3260	36.44	10.66	47.10	56.00	-8.90	QP	
10		4.3260	20.94	10.66	31.60	46.00	-14.40	AVG	
11		29.8220	32.62	10.68	43.30	60.00	-16.70	QP	
12		29.8220	31.42	10.68	42.10	50.00	-7.90	AVG	

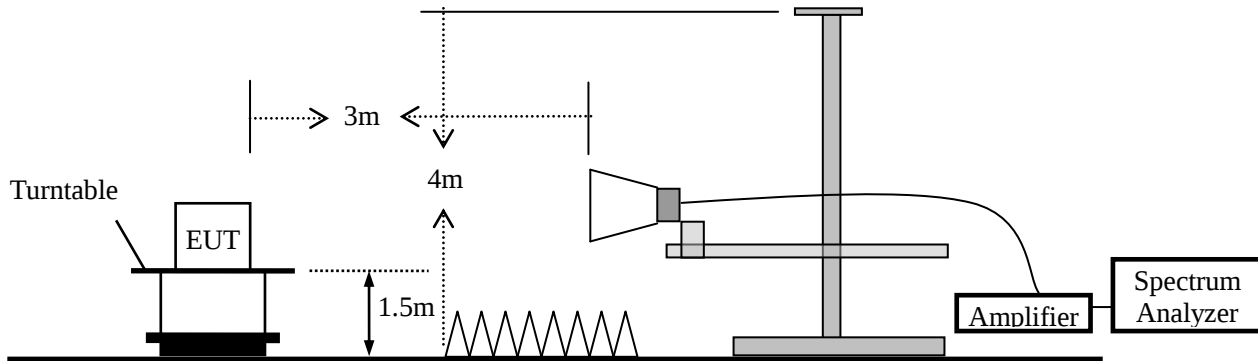
4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency below 30MHz and 30-1000MHz.



4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- For the radiated emission test above 1GHz:
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

- Remark : (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
(4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

4.4 Measurement Results

Please refer to following plots of the worst case: TX (Full Load)



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Radiated Emission Measurement

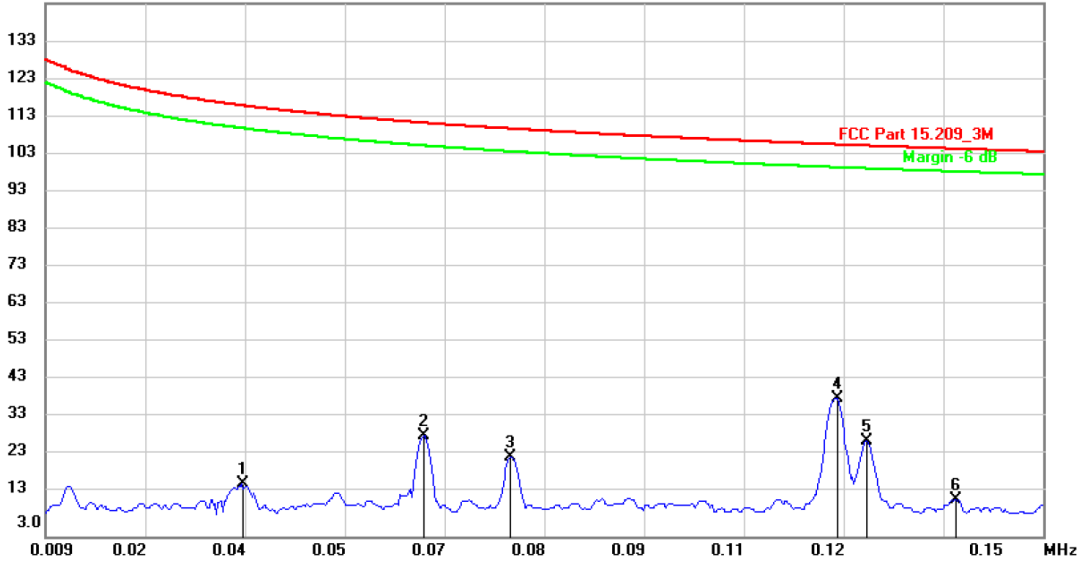
File: PS1003

Data: #24

Date: 2019/11/28

Time: 8:54:27

143.0 dBuA



Site: 3m Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15.209_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Power Ststion

Distance:

M/N: PS1003

Mode: TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuA	dBuA	dB	cm	degree	Comment
1		0.0367	-15.55	32.32	16.77	116.19	-99.42	peak		
2		0.0623	-2.89	32.30	29.41	111.61	-82.20	peak		
3		0.0747	-8.60	32.30	23.70	110.05	-86.35	peak		
4	*	0.1208	7.08	32.30	39.38	105.89	-66.51	peak		
5		0.1250	-4.30	32.30	28.00	105.60	-77.60	peak		
6		0.1375	-19.51	32.30	12.79	104.78	-91.99	peak		



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Radiated Emission Measurement

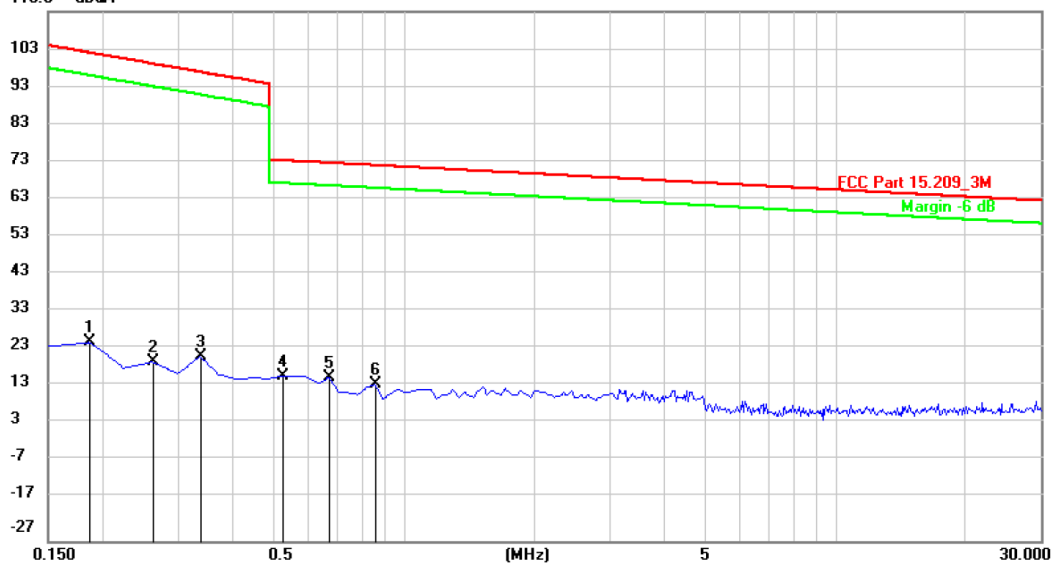
File :PS1003

Data :#6

Date: 2019/8/2

Time: 9:16:43

113.0 dBuA



Site: 3m Chamber

Limit: FCC Part 15.209_3M

EUT: Power Staion

M/N: PS1003

Mode: TX

Note:

Polarization: **Horizontal**

Temperature: 26

Power: AC120V/60Hz

Humidity: 60 %

Distance:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuA	dBuA	dB	cm	degree	Comment
1		0.1872	-6.75	32.28	25.53	102.11	-76.58	peak		
2		0.2618	-11.93	32.27	20.34	99.21	-78.87	peak		
3		0.3366	-10.46	32.25	21.79	97.04	-75.25	peak		
4		0.5231	-15.58	32.22	16.64	73.63	-56.99	peak		
5	*	0.6722	-15.81	32.20	16.39	72.97	-56.58	peak		
6		0.8588	-17.81	32.17	14.36	72.32	-57.96	peak		



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Radiated Emission Measurement

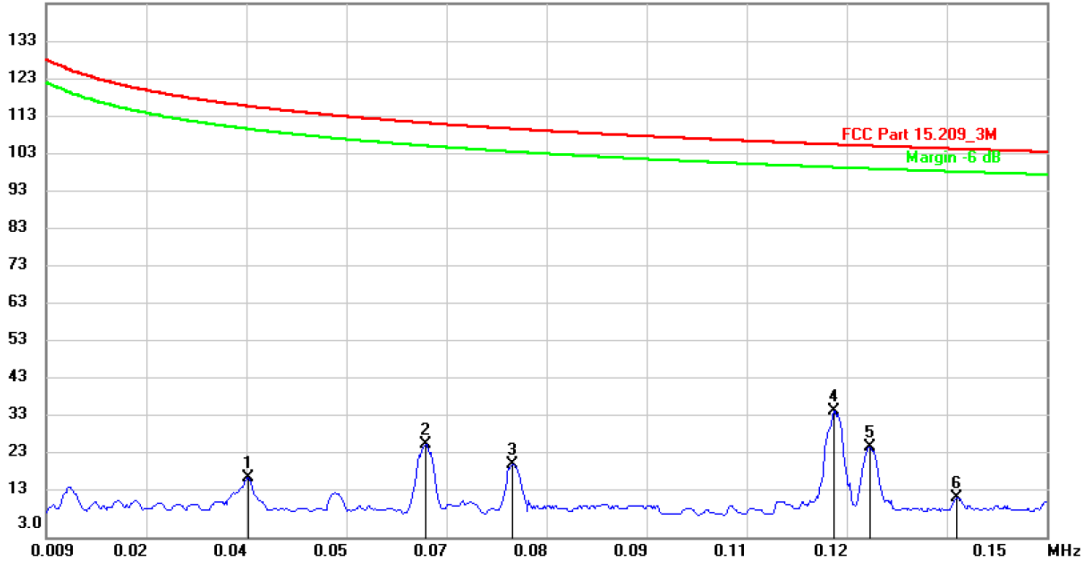
File :PS1003

Data :#23

Date: 2019/11/28

Time: 8:48:10

143.0 dBuA



Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.209_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Power Ststion

Distance:

M/N: PS1003

Mode: TX

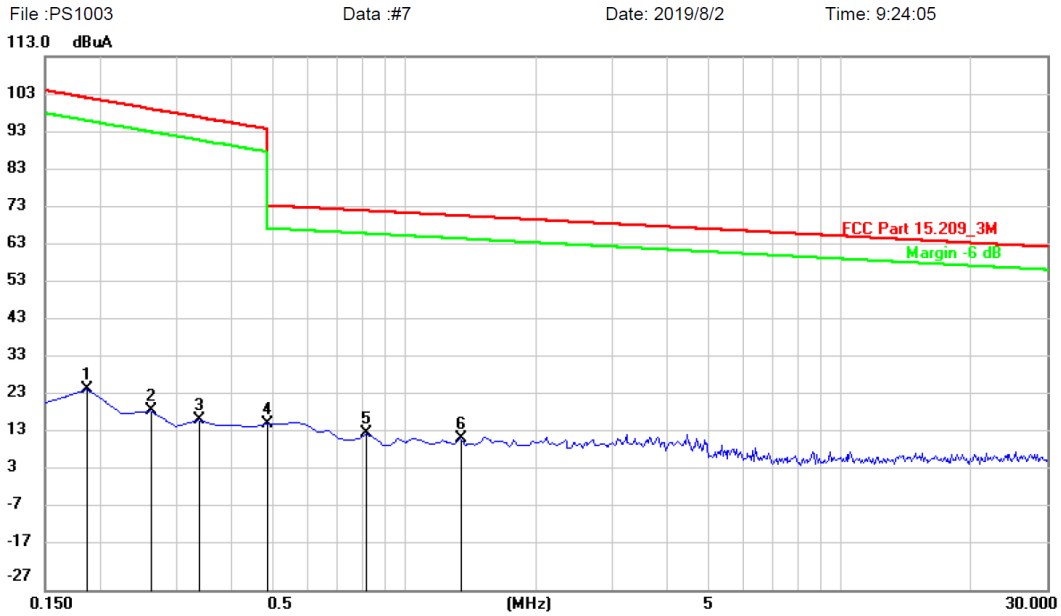
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuA	dBuA	dB	cm	degree	Comment
1		0.0374	-13.84	32.32	18.48	116.02	-97.54	peak		
2		0.0623	-4.94	32.30	27.36	111.61	-84.25	peak		
3		0.0747	-10.10	32.30	22.20	110.05	-87.85	peak		
4	*	0.1200	3.88	32.30	36.18	105.95	-69.77	peak		
5		0.1250	-5.67	32.30	26.63	105.60	-78.97	peak		
6		0.1373	-19.01	32.30	13.29	104.79	-91.50	peak		



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Radiated Emission Measurement



Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.209_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Power Station

Distance:

M/N: PS1003

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.1872	-6.60	32.28	25.68	102.11	-76.43	peak			
2		0.2618	-12.36	32.27	19.91	99.21	-79.30	peak			
3		0.3366	-14.74	32.25	17.51	97.04	-79.53	peak			
4		0.4858	-15.58	32.22	16.64	93.87	-77.23	peak			
5	*	0.8215	-18.16	32.18	14.02	72.44	-58.42	peak			
6		1.3440	-19.60	32.17	12.57	71.14	-58.57	peak			



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Radiated Emission Measurement

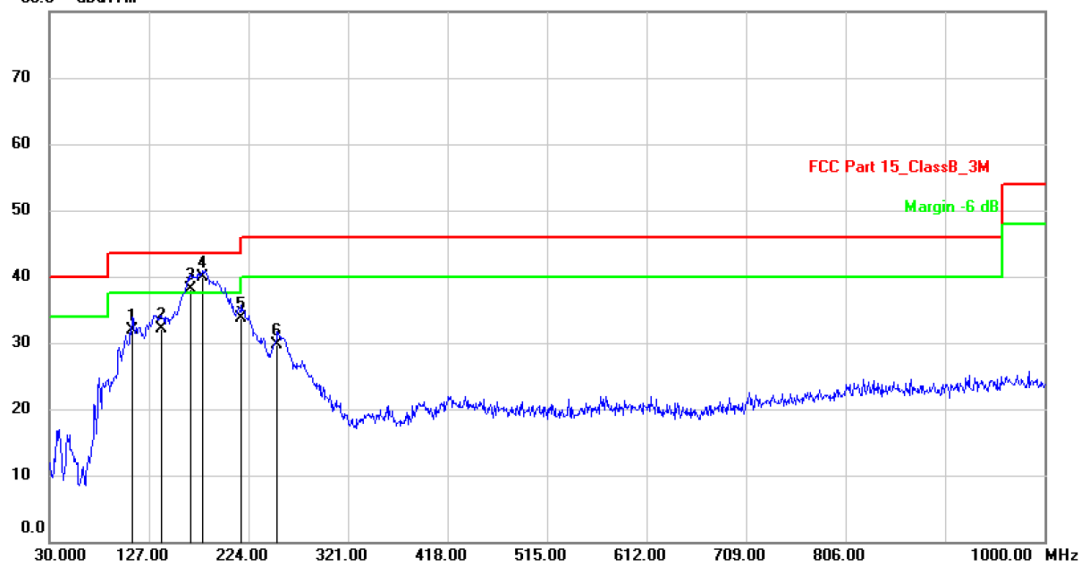
File: PS1003

Data: #11

Date: 2019/8/8

Time: 14:00:38

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15_ClassB_3M

Power: AC120V/60Hz

Humidity: 47 %

EUT: Power Station

Distance: 3m

M/N: PS1003

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		110.5100	44.26	-12.26	32.00	43.50	-11.50	QP		
2		139.6100	47.77	-15.57	32.20	43.50	-11.30	QP		
3	!	167.7400	53.09	-14.89	38.20	43.50	-5.30	QP		
4	*	179.3800	54.18	-14.18	40.00	43.50	-3.50	QP		
5		217.2100	46.75	-13.05	33.70	46.00	-12.30	QP		
6		252.1300	41.33	-11.63	29.70	46.00	-16.30	QP		



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Radiated Emission Measurement

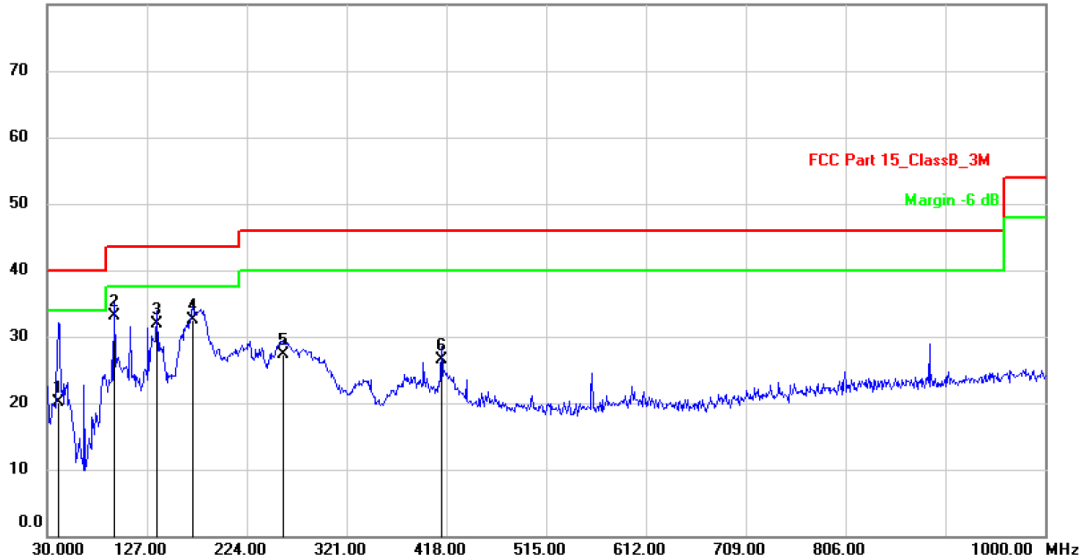
File : PS1003

Data : #12

Date: 2019/8/8

Time: 14:03:10

80.0 dBuV/m



Site

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15_ClassB_3M

Power: AC120V/60Hz

Humidity: 47 %

EUT: Power Station

Distance: 3m

M/N: PS1003

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		40.6699	35.49	-15.39	20.10	40.00	-19.90	QP		
2	*	94.9900	48.87	-15.77	33.10	43.50	-10.40	QP		
3		136.7000	50.44	-18.44	32.00	43.50	-11.50	QP		
4		171.6200	50.21	-17.71	32.50	43.50	-11.00	QP		
5		258.9200	40.86	-13.46	27.40	46.00	-18.60	QP		
6		413.1500	37.96	-11.46	26.50	46.00	-19.50	QP		

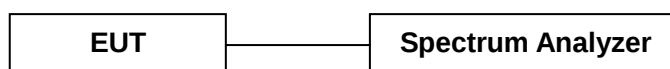
5. 20dB Bandwidth

5.1 Measurement Procedure

Maximum 20dB RF Bandwidth, FCC Rule 15.35:

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Results

Refer to attached data chart.

RBW:	300Hz	VBW:	1KHz
Test By:	Sance	Spectrum Detector:	PK
Temperature :	24 °C	Test Date :	July 31, 2019
Test Result:	PASS	Humidity :	50 %

Channel frequency (KHz)	20dB Down BW(Hz)
124.30	91.35

Test Channel



*RBW 30 Hz
 *VBW 100 Hz
 Marker 1 [T1]
 -63.31 dBm
 124.300000000 kHz

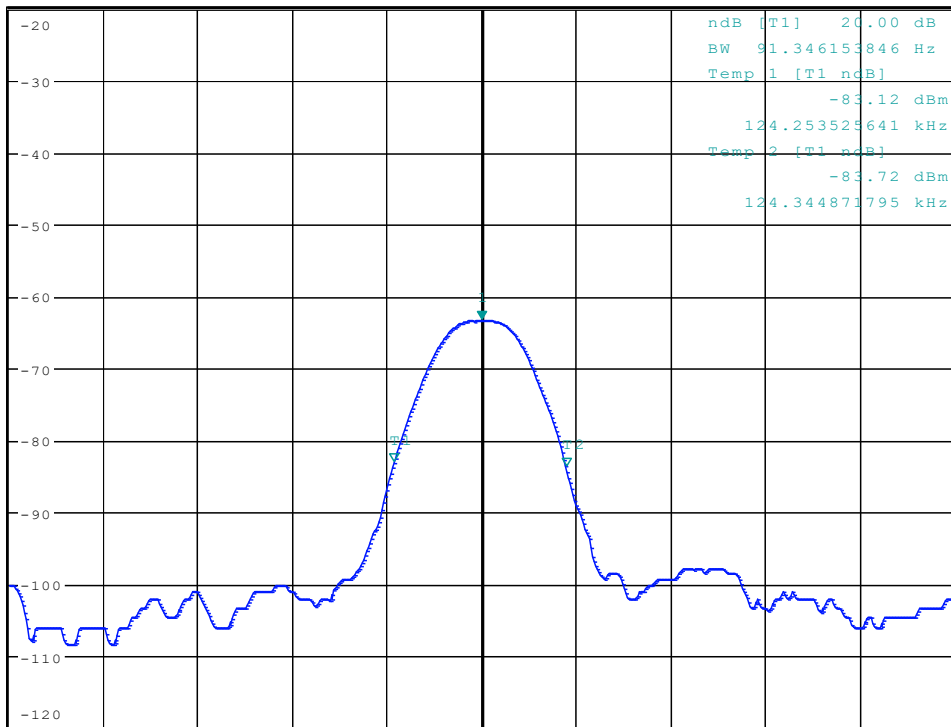
Ref -20 dBm

Att 5 dB

SWT 560 ms

124.300000000 kHz

1 PK
 MAXH



Center 124.3 kHz

50 Hz/

Span 500 Hz

Date: 31.JUL.2019 15:53:11

6. Antenna Application

6.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

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 Measurement Results

The antenna is coil antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0dBi, Therefore, the antenna is consider meet the requirement.

7. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2019	1 Year
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 15, 2019	1 Year
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 14, 2019	1 Year
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 14, 2019	1 Year
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2019	1 Year
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2019	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 14, 2019	1 Year
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 15, 2019	1 Year
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2019	1 Year
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2019	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2019	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 06, 2019	1 Year
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 03, 2019	1 Year
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2019	1 Year
Test Receiver	Rohde & Schwarz	ESCI	101152	9KHz-3GHz	Mar. 14, 2019	1 Year
L.I.S.N	Rohde & Schwarz	ENV 216	101317	9KHz-30MHz	Mar. 14, 2019	1 Year
RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	9KHz-3GHz	Mar.14, 2019	1 Year
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Nov. 03, 2019	1 Year
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Nov. 03, 2019	1 Year
Test Software	EZ	EZ_EMC	N/A	N/A	N/A	N/A

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