

FCC Test Report

Applicant : Alliance Sports Group., LP

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

Product Name : POWER STATION

Report Date : Oct. 09, 2023

Shenzhen Anbotech Compliance Laboratory Limited



Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
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Report No.: 18360WC30011001

FCC ID: 2BASYNP1600PS

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TEST REPORT

Applicant : Alliance Sports Group., LP
Manufacturer : Huizhou Intelligent Energy Co., Ltd
Product Name : POWER STATION
Test Model No. : NP1600PS
Reference Model No. : HALO-PS1600
Trade Mark : NEBO, HALO
Rating(s) : Please refer to page 6

Test Standard(s) : 47 CFR Part 15.209

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 above listed standard(s) 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. 14, 2023

Date of Test:

Aug. 16, 2023 to Aug. 30, 2023

Prepared By:



(TuTu Hong)

Approved & Authorized Signer:



(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Oct. 09, 2023

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

1.1. Client Information

Applicant	:	Alliance Sports Group., LP
Address	:	700 Henrietta Creek Rd. Roanoke, TX, Roanoke, TX 76262 United States
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	:	POWER STATION
Test Model No.	:	NP1600PS
Reference Model No.	:	HALO-PS1600 (Note: All samples are the same except the model number & Trade Mark, so we prepare "NP1600PS" for test only.)
Trade Mark	:	NEBO, HALO
Test Power Supply	:	AC 120V/60Hz/DC 51.2V Battery inside/DC 12V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	110.1-205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)

Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.2)The rated voltage of the product is DC 12-75V, only DC 12V is selected for testing.



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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%
- Date Code:

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: 2BASYNP1600PS



MADE IN CHINA

Li-ion

Intertek
5027483

CONFORMS TO ANSI CANUL STD 2181

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.

H1600IM V1.0.01 / 3.06.04.0559

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	/

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1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	AC charging+WPT(AC 120V/60Hz)
TM2	DC charging+WPT(DC 12V)
TM3	WPT Mode(DC 51.2V Battery inside)

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1,2,3	P
Emissions in frequency bands (below 30MHz)	Mode1,2,3	P
Emissions in frequency bands (30MHz - 1GHz)	Mode1,2,3	P
Note: P: Pass N: N/A, not applicable		

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1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:184111

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. 184111.

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.518128

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1.8. Test Equipment List**Conducted Emission at AC power line**

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Emissions in frequency bands (below 30MHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESPI7	101340	2023-02-22	2024-02-21
2	Pre-amplifier	Emtrace	RP01A	00517	2023-02-22	2024-02-21
3	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2022-10-23	2023-10-22
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Emissions in frequency bands (30MHz - 1GHz)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	2022-10-16	2025-10-15
2	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
3	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
4	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/



2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

2.1. Conclusion

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi . It complies with the standard requirement.



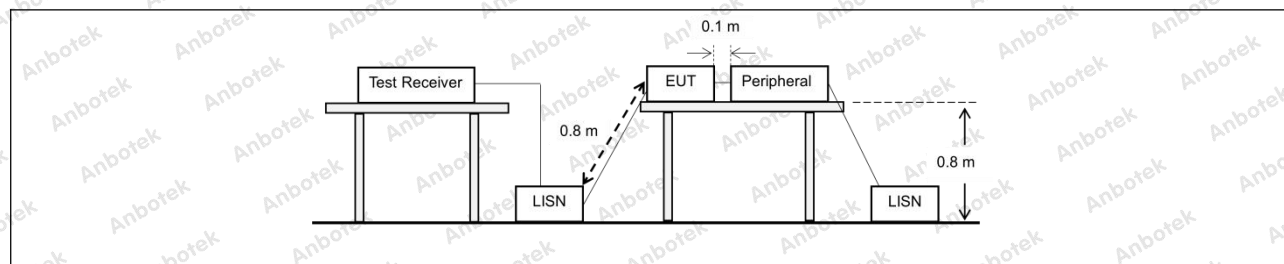
3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.2V Battery inside)

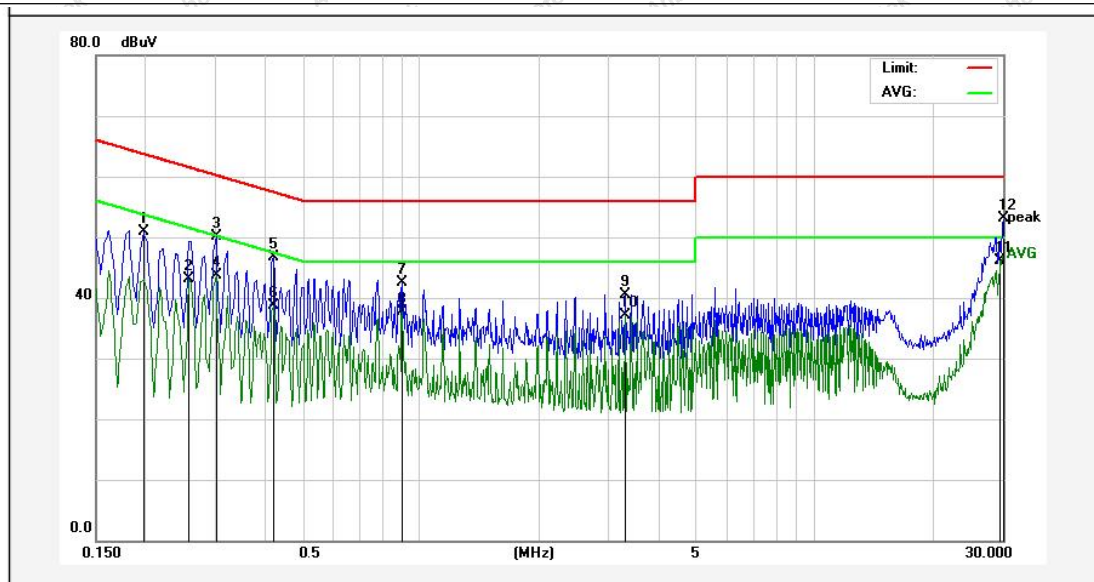
3.2. Test Setup



3.3. Test Data

Temperature:	23.4 °C	Humidity:	49.5 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	34.26	16.70	50.96	63.69	-12.73	QP	
2	0.2580	26.21	16.90	43.11	51.49	-8.38	AVG	
3	0.3020	33.03	17.04	50.07	60.19	-10.12	QP	
4	0.3020	26.62	17.04	43.66	50.19	-6.53	AVG	
5	0.4220	29.48	17.23	46.71	57.41	-10.70	QP	
6	0.4220	21.46	17.23	38.69	47.41	-8.72	AVG	
7	0.9020	25.04	17.53	42.57	56.00	-13.43	QP	
8	0.9020	20.14	17.53	37.67	46.00	-8.33	AVG	
9	3.3020	22.93	17.59	40.52	56.00	-15.48	QP	
10	3.3020	19.54	17.59	37.13	46.00	-8.87	AVG	
11	29.6380	27.97	18.17	46.14	50.00	-3.86	AVG	
12	30.0000	34.87	18.18	53.05	60.00	-6.95	QP	



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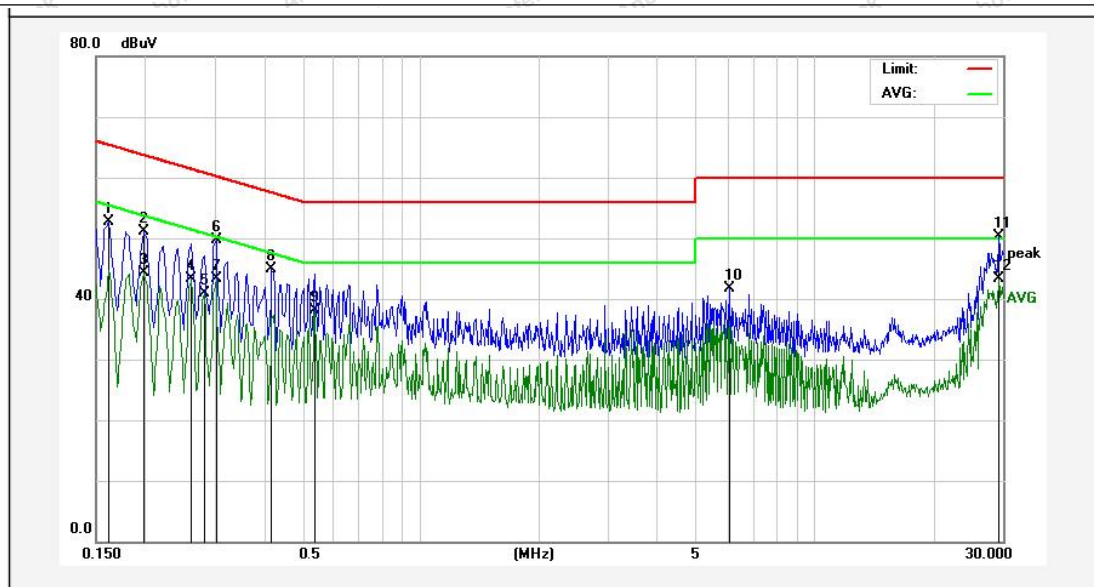
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Temperature: 23.4 °C

Humidity: 49.5 %

Atmospheric Pressure: 101 kPa

TM1 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	36.05	16.67	52.72	65.36	-12.64	QP	
2	0.1980	34.40	16.70	51.10	63.69	-12.59	QP	
3	0.1980	27.55	16.70	44.25	53.69	-9.44	AVG	
4	0.2620	26.34	16.90	43.24	51.36	-8.12	AVG	
5	0.2819	23.99	16.97	40.96	50.76	-9.80	AVG	
6	0.3020	32.72	17.04	49.76	60.19	-10.43	QP	
7	0.3020	26.18	17.04	43.22	50.19	-6.97	AVG	
8	0.4180	27.74	17.22	44.96	57.49	-12.53	QP	
9	0.5420	20.65	17.40	38.05	46.00	-7.95	AVG	
10	6.0619	24.21	17.41	41.62	60.00	-18.38	QP	
11	29.2780	32.10	18.14	50.24	60.00	-9.76	QP	
12	29.2780	25.15	18.14	43.29	50.00	-6.71	AVG	

Note: Only record the worst data in the report.



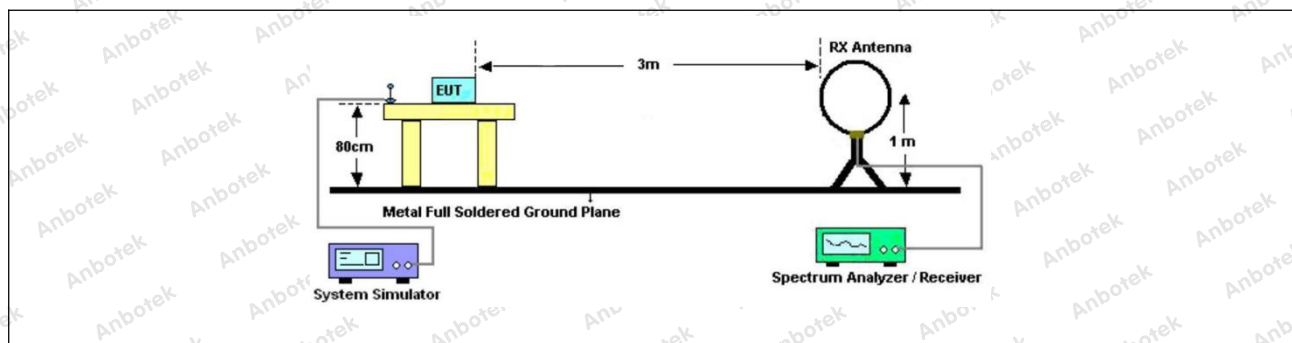
4. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.2V Battery inside)

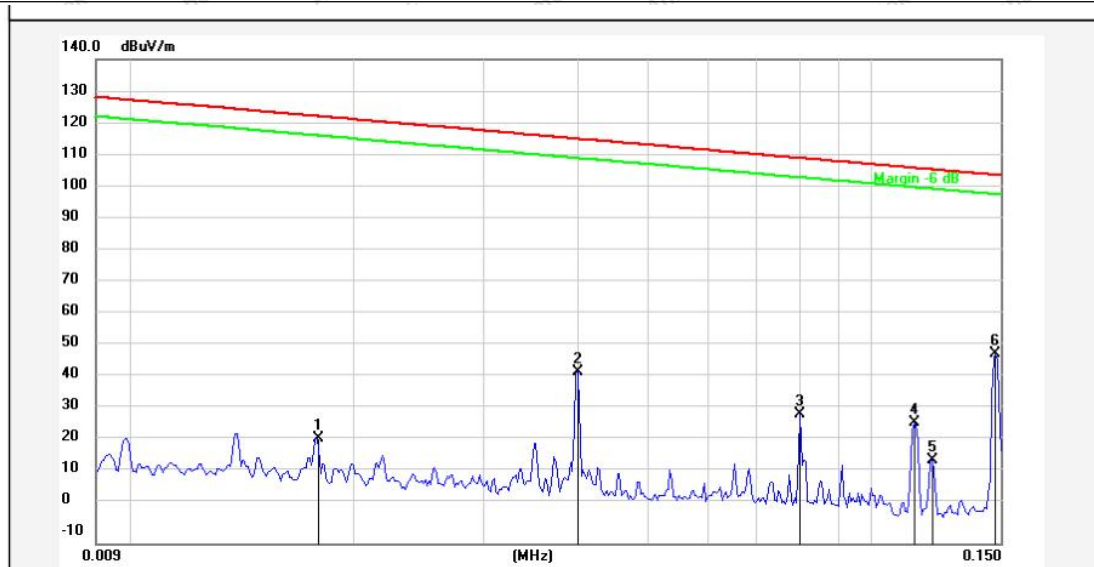
4.2. Test Setup



4.3. Test Data

Temperature:	23.3 °C	Humidity:	57.3 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0179	2.44	20.16	22.60	122.37	-99.77	QP			
2	0.0401	22.50	20.43	42.93	115.41	-72.48	QP			
3	0.0803	9.48	20.36	29.84	109.41	-79.57	QP			
4	0.1145	7.04	20.31	27.35	106.35	-79.00	QP			
5	0.1211	-4.76	20.34	15.58	105.87	-90.29	QP			
6	0.1474	28.48	20.33	48.81	104.17	-55.36	QP			



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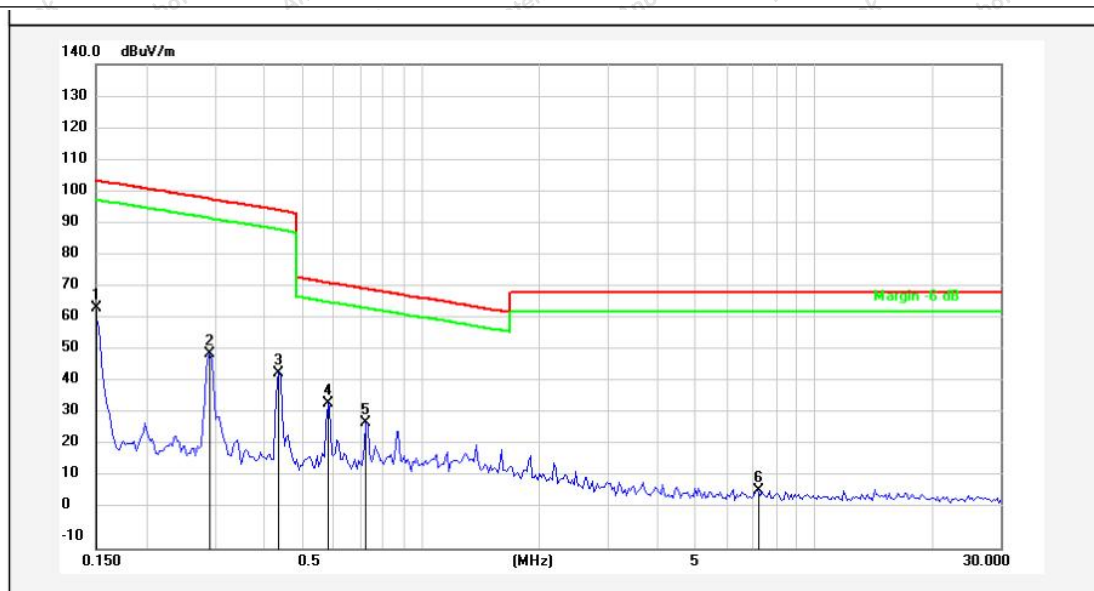
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Temperature: 23.3 °C

Humidity: 57.3 %

Atmospheric Pressure: 102 kPa

TM1 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.1500	44.09	20.33	64.42	104.02	-39.60	QP			
2	0.2924	29.71	20.30	50.01	98.26	-48.25	QP			
3	0.4374	23.95	20.27	44.22	94.78	-50.56	QP			
4	0.5823	14.42	20.27	34.69	72.31	-37.62	QP			
5	0.7273	8.51	20.25	28.76	70.38	-41.62	QP			
6	7.1754	-12.65	20.46	7.81	69.50	-61.69	QP			

Note: Only record the worst data in the report.



5. Emissions in frequency bands (30MHz - 1GHz)

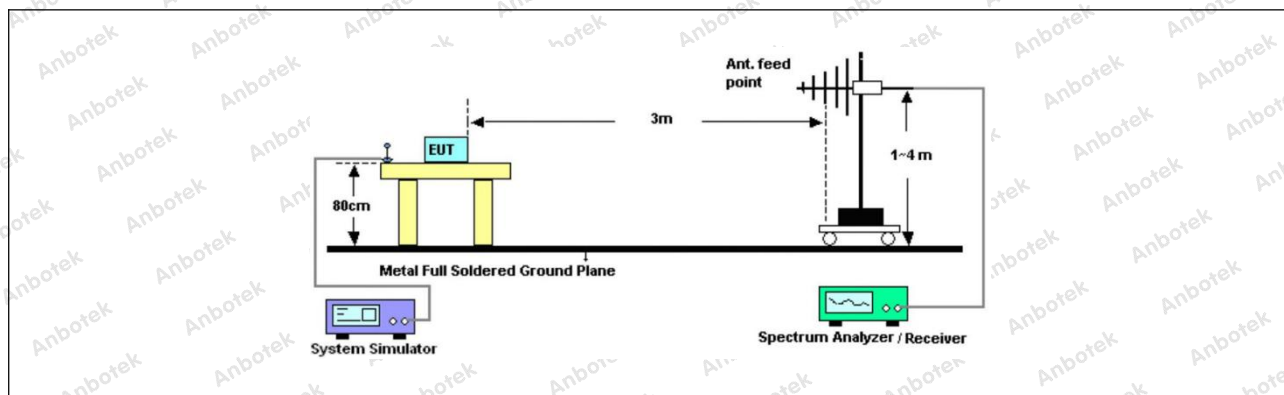
Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

5.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: AC charging+WPT(AC 120V/60Hz) 2: TM2: DC charging+WPT(DC 12V) 3: TM3: WPT Mode(DC 51.2V Battery inside)



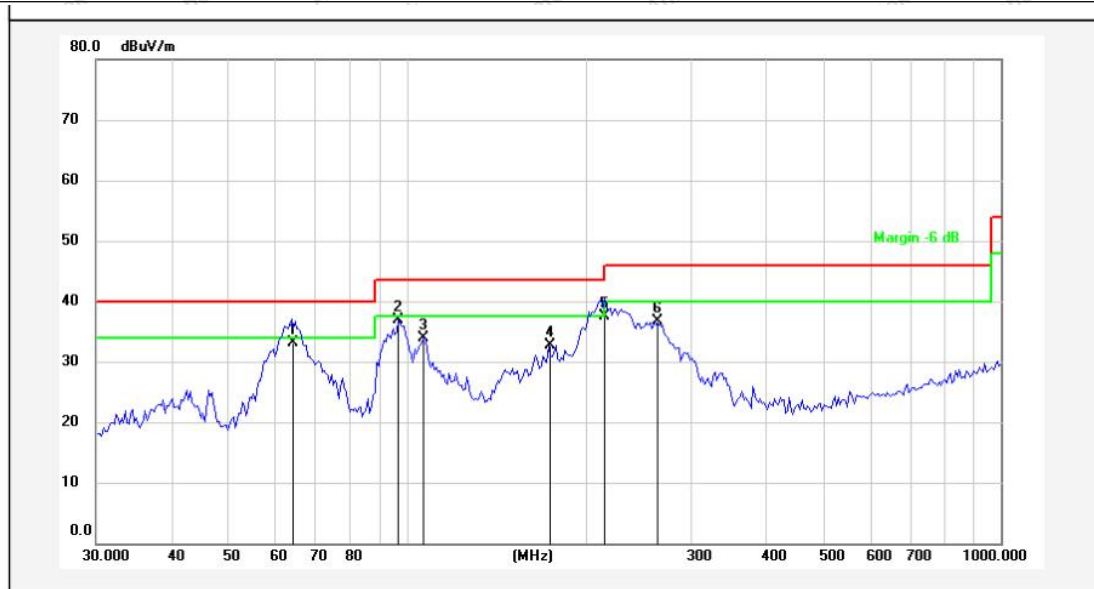
5.2. Test Setup



5.3. Test Data

Temperature:	24.3 °C	Humidity:	56.7 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	63.9828	52.43	-19.27	33.16	40.00	-6.84	QP			
2	96.7749	54.27	-17.39	36.88	43.50	-6.62	QP			
3	106.7587	51.64	-17.83	33.81	43.50	-9.69	QP			
4	173.2051	52.55	-19.76	32.79	43.50	-10.71	QP			
5	215.2678	55.08	-17.54	37.54	43.50	-5.96	QP			
6	261.9753	52.41	-15.77	36.64	46.00	-9.36	QP			



Report No.: 18360WC30011001

FCC ID: 2BASYNP1600PS

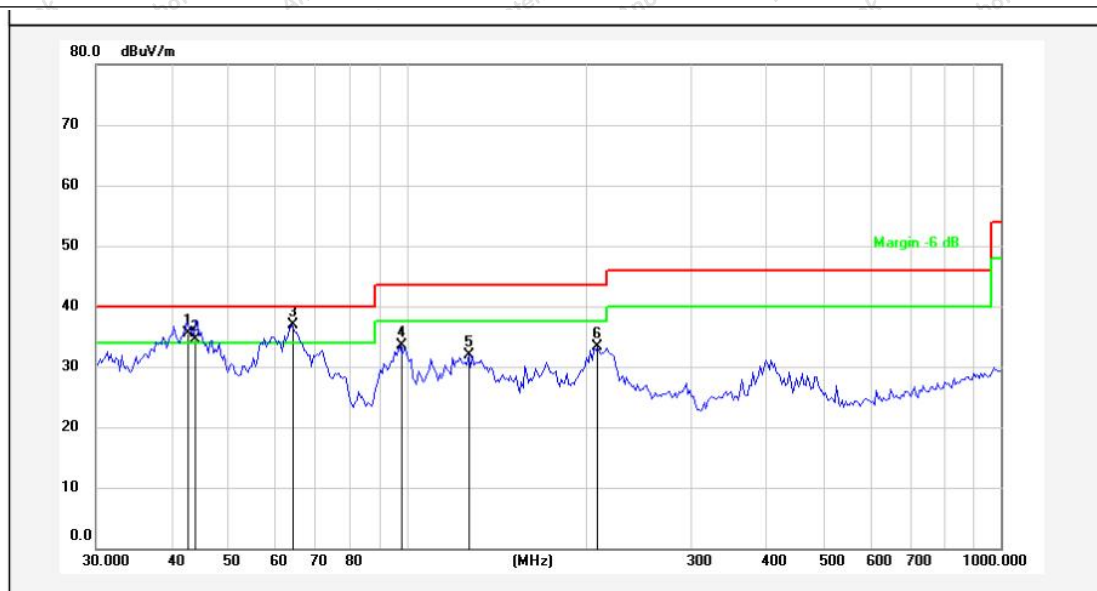
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Temperature: 24.3 °C

Humidity: 56.7 %

Atmospheric Pressure: 102 kPa

TM1 / Polarization: Vertical



Note: Only record the worst data in the report.



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 -----

