

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

Report Reference No...... CTA22032800701 FCC ID.....: : 2AZ48-VECLIPS6

Compiled by

(position+printed name+signature)..:

File administrators Kevin Liu

Supervised by

(position+printed name+signature)..: Project Engineer Kevin Liu

Approved by

(position+printed name+signature)..: RF Manager Eric Wang

Date of issue....: February 25, 2022

Representative Laboratory Name.: Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Address....::

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name..... **BACCUS GLOBAL LLC**

621 NW 53 St Suite-450 Boca Ratón, FI 33487 United States Address....::

Test specification....::

FCC Rules and Regulations Part 15 Subpart C (Section 15.209), Standard.....:

ANSI C63.10: 2013

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Test item description....: **Lithium Power Station**

Trade Mark....: N/A

Manufacturer.....: Guangdong Boltpower Energy Co., Ltd

Model/Type reference....: **VECLIPS6**

Listed Models: N/A Modulation Type.....: **ASK**

Operation Frequency.....: From 115KHz~205KHz

Input:AC 100-240V 50/60Hz 1.5A Rating....: Output: Wireless Charging: 10W

PASS CTATESTING

Shenzhen CTA Testing Technology Co., Ltd.

CTATESTIN'

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TEST REPORT

Equipment under Test Lithium Power Station

Model /Type **VECLIPS6**

Listed Models N/A Model Declaration N/A

BACCUS GLOBAL LLC Applicant

Address 621 NW 53 St Suite-450 Boca Ratón, FI 33487 United States

Manufacturer Guangdong Boltpower Energy Co., Ltd

No.22 Xinfu Road, Lincun, Tangxia Town, Dongguan City, Address

Guangdong Province China. 523710

Test Result: **PASS**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory. CTATESTING

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TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits.

FCC Rules and Regulations Part 15 Subpart C (Section 15.200): Part 15 Subpart C (Section 15.2 FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general requirements.

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

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SUMMARY

General Remarks

Date of receipt of test sample	9.00.11	February 25, 2022
	15	
Testing commenced on		February 25, 2022
Testing concluded on	:	April 03, 2022

2.2 Product Description

Testing commenced on	•	February 25, 2022
Testing concluded on	:	April 03, 2022
2.2 Product Description	n	
Product Name:	-1	Lithium Power Station
Model/Type reference:	(EST	VECLIPS6
Hardware version:		V1.0
Software version:		V1.0 CTA
Test samples ID:		CTA22032800701-1# (Engineer sample), CTA22032800701-2# (Normal sample)
Power supply:		Input:AC 100-240V 50/60Hz 1.5A Output: Wireless Charging: 10W
Operation frequency:		115KHz - 205KHz
Modulation type:		ASK
Antenna type:		Loop coil antenna
		-12

Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Charging and communication mode

Test Mod	Test Modes:				
Mode 1	Wireless Charging (10W)	Recorded			
Mode 2	Mode 2 Standby Pre-tested				
Note: All test modes were pre-tested, but we only recorded the worst case in this report.					

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
Adapter	/	FJ- SW20171504000D	Input: 100-240V~, 50/60Hz, 1.5A Output:DC 15V 4A	FCC	manufacturer
Wireless charging load	GTING	EESON	5W/7.5W/10W	FCC	laboratory

2.5 Modifications

No modifications were implemented to meet testing criteria.

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TEST ENVIRONMENT

Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	24 ° C
THE THE PARTY OF T	-TA
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission:

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Temperature:	25 ° C
ING	
Humidity:	46 %
-1N	6
Atmospheric pressure:	950-1050mbar

Conducted testing:

Atmospheric pressure:	950-1050mbar
Conducted testing:	
onducted testing.	
Temperature:	25 ° C
	C
Humidity:	44 %
-	Os constant
Atmospheric pressure:	950-1050mbar

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Summary of measurement results

Description of test	FCC Rules	Result
Conducted emissions test	§15.207	Compliant
Radiated emission test	§15.209	Compliant
Antenna requirement	§15.203	Compliant

Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

		TESTI		
Hereafter the best measurer	ment capability for Shenzhen	CTA laboratory is re	eported:	
Test	Range	Measurement Uncertainty	Notes	TATESTIN
Radiated Emission	0.009~30MHz	3.23 dB	(1)	CIL
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	
Radiated Emission	18-40GHz	5.38 dB	(1)	
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	
Radiated Emission	9~30MHz	2.20dB	(1)	

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level CTATES using a coverage factor of k=2.

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Equipments Used during the Test 3.6

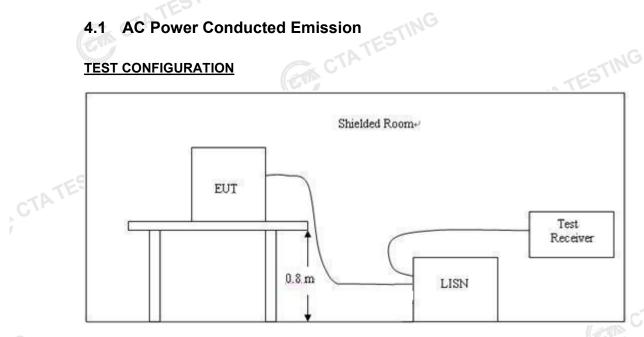
	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
	LISN	R&S	ENV216	CTA-308	2021/08/06	2022/08/05
	LISN	R&S	ENV216	CTA-314	2021/08/06	2022/08/05
	EMI Test Receiver	R&S	ESPI	CTA-307	2021/08/06	2022/08/05
	EMI Test Receiver	R&S	ESCI	CTA-306	2021/08/06	2022/08/05
CTATE	Spectrum Analyzer	Agilent	N9020A	CTA-301	2021/08/06	2022/08/05
	Spectrum Analyzer	R&S	FSP	CTA-337	2021/08/06	2022/08/05
	Vector Signal generator	Agilent	N5182A	CTA-305	2021/08/06	2022/08/05
	Analog Signal Generator	R&S	SML03	CTA-304	2021/08/06	2022/08/05
	Universal Radio Communication	CMW500	R&S	CTA-302	2021/08/06	2022/08/05
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2021/08/06	2022/08/05
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2021/08/07	2022/08/06
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2021/08/07	2022/08/06
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2021/08/07	2022/08/06
	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/06	2022/08/05
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2021/08/06	2022/08/05
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2021/08/06	2022/08/05
	Directional coupler	NARDA	4226-10	CTA-303	2021/08/06	2022/08/05
	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2021/08/06	2022/08/05
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2021/08/06	2022/08/05
CTA	Automated filter bank	Tonscend	JS0806-F	CTA-404	2021/08/06	2022/08/05
	Power Sensor	Agilent	U2021XA	CTA-405	2021/08/06	2022/08/05
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2021/08/06	2022/08/05
	Note: The Cal.Interval	was one year.	CIN CI		CM CT	ATESTING

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TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

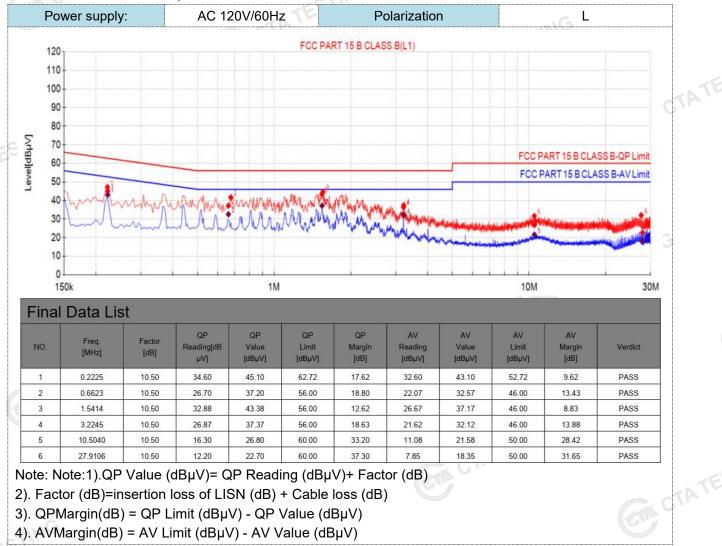
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)		
Frequency range (Miriz)	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	uency.		
CTATESTING CTATESTING	TATESTING	TING	

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TEST RESULTS

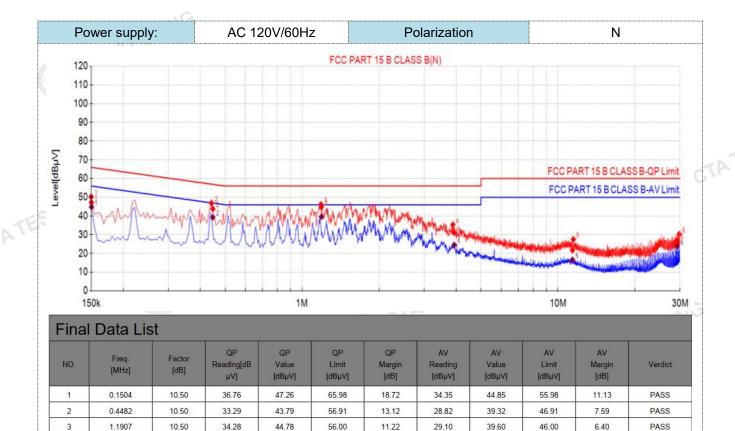
1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:



Note: Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
- 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V) CTA TESTING

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CTA TESTING Note: Note:1).QP Value (dBµV)= QP Reading (dBµV)+ Factor (dB)

31.05

21.70

26.99

56.00

60.00

24.95

38.30

14.04

24.54

16.57

23.71

46.00

50.00

21.46

33.43

PASS

PASS

CTATE

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

20.55

3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V)

3.9297

11.3926

29.2202

10.50

10.50

10.50

4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V) CTATESTING

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Radiated Emission 4.2

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

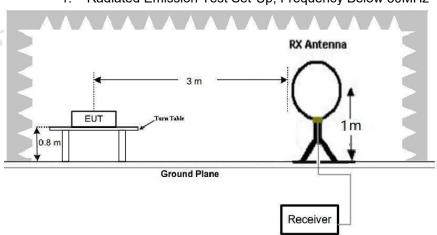
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

emission	

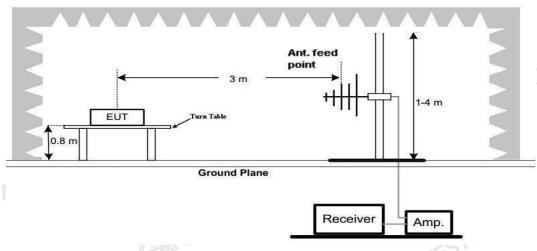
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
CTATE	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
CALL	1.705-30	3	20log(30)+ 40log(30/3)	30
1	30-88	3	40.0	100
	88-216	3	43.5	150
	216-960	3	46.0	200
	Above 960	3	54.0	500

TEST CONFIGURATION

Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency below 1000MHz



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Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- Radiated emission test frequency band from 9KHz to 1000MHz. 5.
- CTATESTING The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP

TEST RESULTS

For 9 KHz-30MHz

WORST-CASE RADIATED EMISSION BELOW 30 MHz

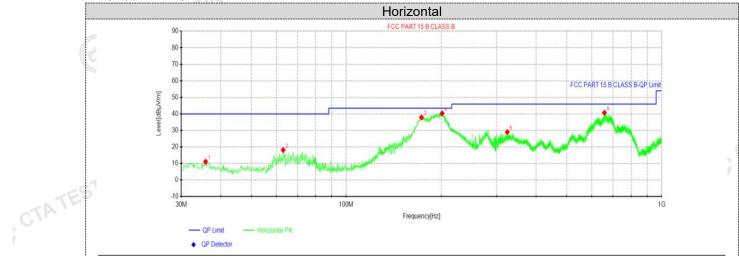
(-	Frequency	Reading	Polar	Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode
	(MHz)	(dBµV/m)	Loop	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	0.1472(F)	68.19	Loop	23.63	0.02	91.84	105.47	13.63	PK
	0.1472(F)	54.97	Loop	23.63	0.02	78.62	85.47	6.85	AV
	0.115	48.71	Loop	23.51	0.02	72.24	106.78	34.54	PK
	0.115	43.66	Loop	23.51	0.02	67.19	86.78	19.59	AV
	0.268	28.03	Loop	23.82	-0.17	51.68	99.04	47.36	QP
-0	0.438	26.55	Loop	24.21	-0.28	50.48	94.77	44.29	QP
TE	0.539	25.70	Loop	24.32	-0.3	49.72	72.97	23.25	QP
CTA			-	, —					
1	Remark:		TES			_	C	•	

Remark:

- Data of measurement within this frequency range shown "-- in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits and not recorded. CTA TESTING
- The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- F means Fundamental Frequency.
- Emission level (dBuV/m) =Reading + Antenna Factor + Cable Loss. 5.
- Margin value = Limit value- Emission level. 6.
- 7. Test mode:Refer to 2.3 of this report
- Pre-scan mode 1 and mode 2, and found the mode 1 which it is worse case, so only show the test data for worse case. CTATES

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For 30MHz-1GHz

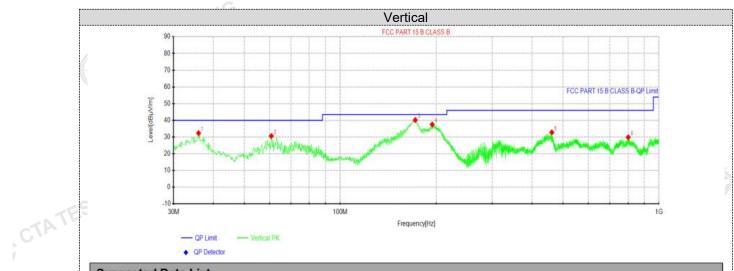


NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.82	28.84	11.11	-17.73	40.00	28.89	100	182	Horizontal
2	63.1012	37.26	18.22	-19.04	40.00	21.78	100	239	Horizonta
3	173.196	58.81	37.93	-20.88	43.50	5.57	100	102	Horizonta
4	201.326	59.63	40.37	-19.26	43.50	3.13	100	263	Horizonta
5	324.031	45.82	29.05	-16.77	46.00	16.95	100	357	Horizonta
6	658.075	52.71	40.73	-11.98	46.00	5.27	100	166	Horizonta

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)

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Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.9412	50.06	32.35	-17.71	40.00	7.65	100	258	Vertical
2	60.7975	49.03	30.61	-18.42	40.00	9.39	100	359	Vertical
3	171.983	61.13	40.19	-20.94	43.50	3.31	100	266	Vertical
4	194.415	57.18	37.54	-19.64	43.50	5.96	100	66	Vertical
5	461.165	47.75	32.79	-14.96	46.00	13.21	100	210	Vertical
6	800.665	40.64	29.88	-10.76	46.00	16.12	100	43	Vertical

Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m)

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4.3 **Antenna Requirement**

Standard Applicable

Standard Applicable

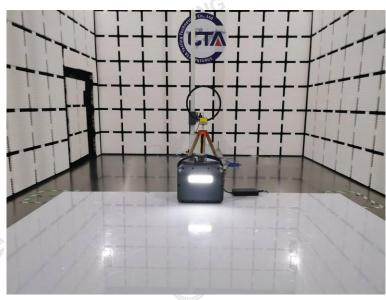
CTA TESTING For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to CTATE ensure that no antenna other than that furnished by the responsible party shall be used with the device.

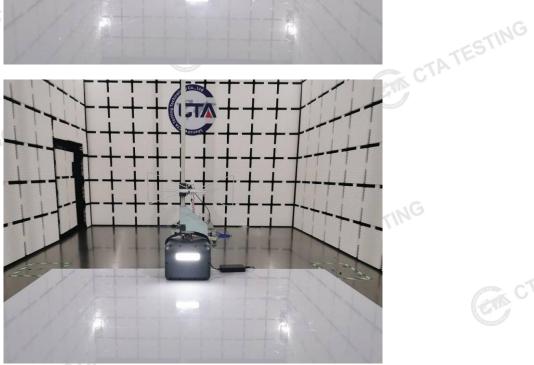
Antenna Information

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is CTATE!

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Test Setup Photos of the EUT







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PHOTOS OF THE EUT







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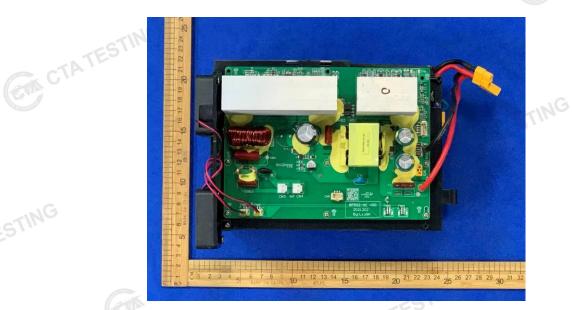
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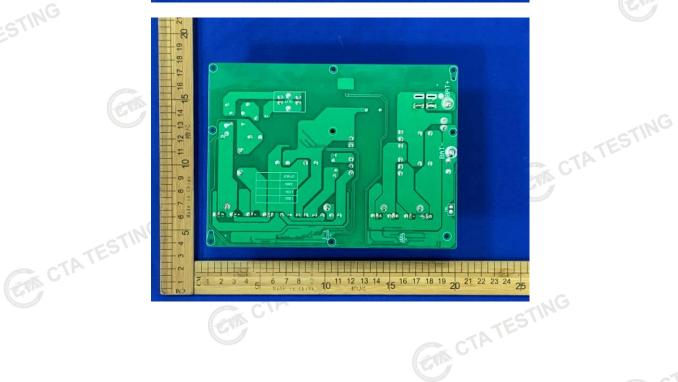




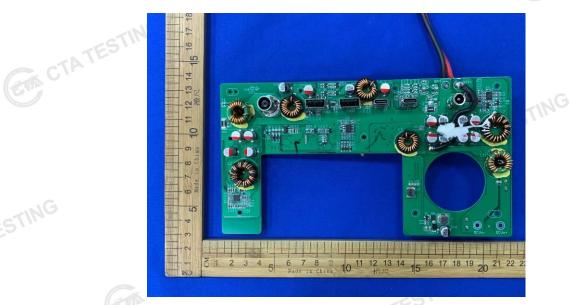
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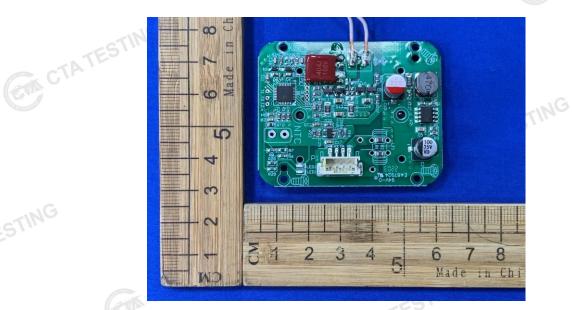
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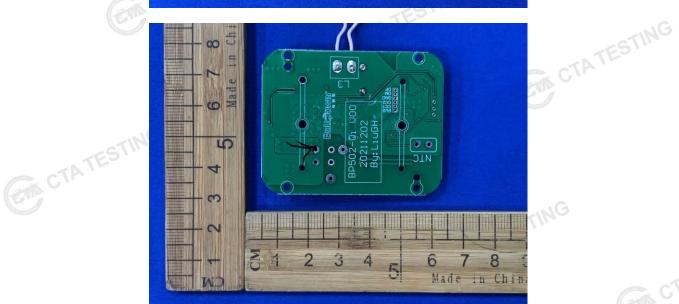






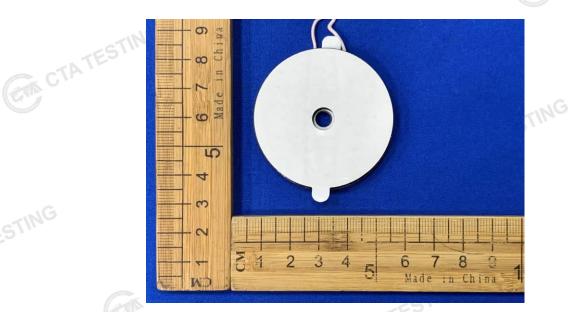
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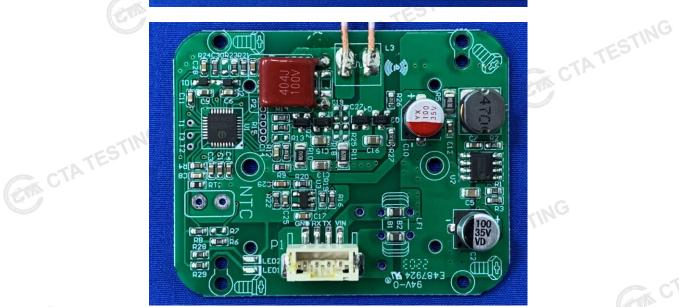






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