

Page 1 of 25

EMC Test Report

Client Name	: EcoFlow Inc.
Address	 Factory Building A202, Founder Technology Industrial Park, North side of Songbai Highway, Longteng Community, Shiyan Sub-district, Baoan District,
Product Name	: Portable Power Station

Date

Sept. 17, 2021



Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-EMC-02-b



Page 2 of 25

Contents

1. General Information	
1.1. Client Information	
1.2. Description of Device (EUT)	
1.3. Auxiliary Equipment Used During Test	
1.4. Description of Test Mode	
1.5. Test Summary	Anbore 5
1.6. Test Equipment List	
1.7. Description of Test Facility	
1.8. EMS Performance Criteria	8
2. Radiated Emission Test	
2.1. Test Standard and Limit	
2.2. Test Setup	
2.3. EUT Configuration on Measurement	
2.4. Operating Condition of EUT	
2.5. Test Procedure	
2.6. Test Results	
3. Electrostatic Discharge Immunity Test	
3.1. Test Standard and Level	
3.2. Test Setup	
3.3. EUT Configuration on Measurement	
3.4. Operating Condition of EUT	
3.5. Test Procedure	
3.6. Test Results	
4. RF Field Strength Susceptibility Test	
4.1. Test Standard and Level	
4.2. Test Setup	
4.3. EUT Configuration on Measurement	
4.4. Operating Condition of EUT	
4.5. Test Procedure	
4.6. Measuring Results	
APPENDIX I TEST SETUP PHOTOGRAPH	
APPENDIX II Photo documentation	

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Page 3 of 25

TEST REPORT

Applicant	JK-	EcoFlow Inc.
Manufacturer	otel	EcoFlow Inc.
Product Name	Adoc	Portable Power Station
Model No.	P.	EFD310-EB
Trade Mark	¥-	ECOFLOW
Rating(s)	.tek	Input: 50.4V, 1800W Max
		Output: 43V-58.4V, 3200W Max
Test Standard(s)	PL	EN IEC 61000-6-4: 2019; EN IEC 61000-6-2: 2019:

(IEC 61000-4-2; IEC 61000-4-3)

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 responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN IEC 61000-6-4, EN IEC 61000-6-2 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:

Date of Test:

Prepared By:

Aug. 31, 2021

Aug. 31~Sept. 06, 2021

Yee Huang

(Yee Huang)

(KingKong Jin)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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Page 4 of 25

1. General Information

1.1. Client Information

Applicant	:	EcoFlow Inc.
Address	:	Factory Building A202, Founder Technology Industrial Park, North side of Songbai Highway, Longteng Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong, China
Manufacturer	:	EcoFlow Inc.
Address	:	Factory Building A202, Founder Technology Industrial Park, North side of Songbai Highway, Longteng Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong, China
Factory	:	EcoFlow Inc.
Address	:	Factory Building A202, Founder Technology Industrial Park, North side of Songbai Highway, Longteng Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	Portable Power Station
Model No.	:	EFD310-EB
Trade Mark	:	ECOFLOW
Test Power Supply	:	DC 50.4V
Test Sample No.	:	1-1-1-1botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Product Description	:	Adapter: N/A
φ		e detailed features description, please refer to the manufacturer's specifications 's Manual.

1.3. Auxiliary Equipment Used During Test

N/A

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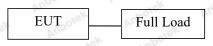


Page 5 of 25

1.4. Description of Test Mode

Pretest Mode	Description	
Mode 1	Discharging	Anbotek Anbo

For Mode 1 Block Diagram of Test Setup

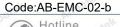


1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	ek Anto I otek	Anbotek N Anb
Radiated Emission Test(30MHz To 1000MHz)	Mode 1	Anbole
Electrostatic Discharge immunity Test	Mode 1	otek Photek
RF Field Strength susceptibility Test	Mode 1	ribotek P Anbotel
Electrical Fast Transient/Burst Immunity Test	And Jotek	Anbotek N Anbo
Surge Immunity Test	ootek Anbotek	Anborn
Injected Currents Susceptibility Test	Anbotek / Anbote	tek Nootek
Magnetic Field Susceptibility Test	Anboren And	hpotek NAnbotek
Voltage Dips and Interruptions Test	k Andrek	Anbotek N Anbo
P) Indicates "PASS". N) Indicates "Not applicable".	otek Anbotek	Anbotek Anbotek

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Report No.: 18230EC10205101

Page 6 of 25

1.6. Test Equipment List

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Oct. 26, 2020	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 02, 2020	2 Year
4.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A Model	N/A

Electrostatic Discharge Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Simulators	3Ctest	EDS-30T	ES0131505	Oct. 28, 2020	1 Year
1 and		- Notest				pri

R/S Immunity Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
1. p	Signal Generator	Agilent	N5182A	MY4818065 6	Oct. 26, 2020	1 Year	
2. Amplifier		Micotoop	MPA-80-100 0-250	MPA190309 6	Oct. 26, 2020	1 Year	
3.	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	Oct. 26, 2020	1 Year	
4.	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Apr.17, 2021	1 Year	
5.	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year	
6.	Power Sensor	Agilent	E9301A	MY4149890 6	Oct. 26, 2020	1 Year	
7. ^{bot}	Power Sensor	Agilent	E9301A	MY4149808 8	Oct. 26, 2020	1 Year	
8.	Power Meter	Agilent	E4419B	GB4020290 9	Oct. 26, 2020	1 Year	
9.	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr.17, 2021	1 Year	
10.	RS Test software	EMtrace	EM 3	V1.1.7	N/A	N/A	

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Code:AB-EMC-02-b



Page 7 of 25

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, September 30, 2020.

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, September 30, 2020.

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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Page 8 of 25

1.8. EMS Performance Criteria

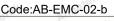
- $\sqrt{-}$ A: Normal performance within the specification limits
- B: Temporary degradation or loss of function or performance which is self-recoverable
- C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
 - D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.

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Page 9 of 25

2. Radiated Emission Test

2.1. Test Standard and Limit

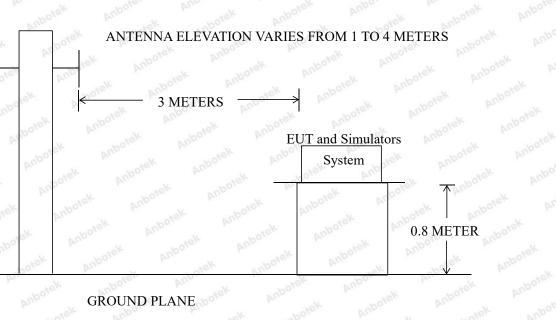
- 1		N. MO			
	Test Standard	EN IEC 61000-6-4			

Radiated Emission Test Limit

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)		
	30 ~ 230	A Anborer 3 Anbo	50 Antone		
	230 ~ 1000	ek abo3k Anbon	57		

Remark: (1) The smaller limit shall apply at the combination point between two frequency bands.(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

2.2. Test Setup



2.3. EUT Configuration on Measurement

The EN IEC 61000-6-4 regulations test method must be used to find the maximum emission during radiated emission measurement.

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Code:AB-EMC-02-b



Page 10 of 25

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

2.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. 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. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 2.6.

2.6. Test Results

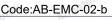
PASS

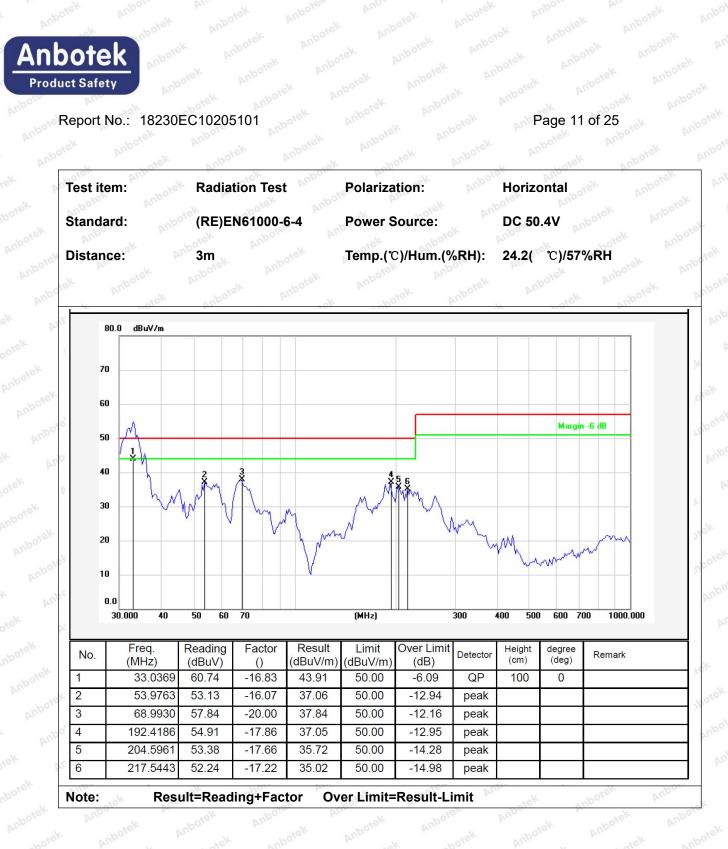
The frequency range from 30MHz to 1000MHz is investigated.

The test curves are shown in the following pages.

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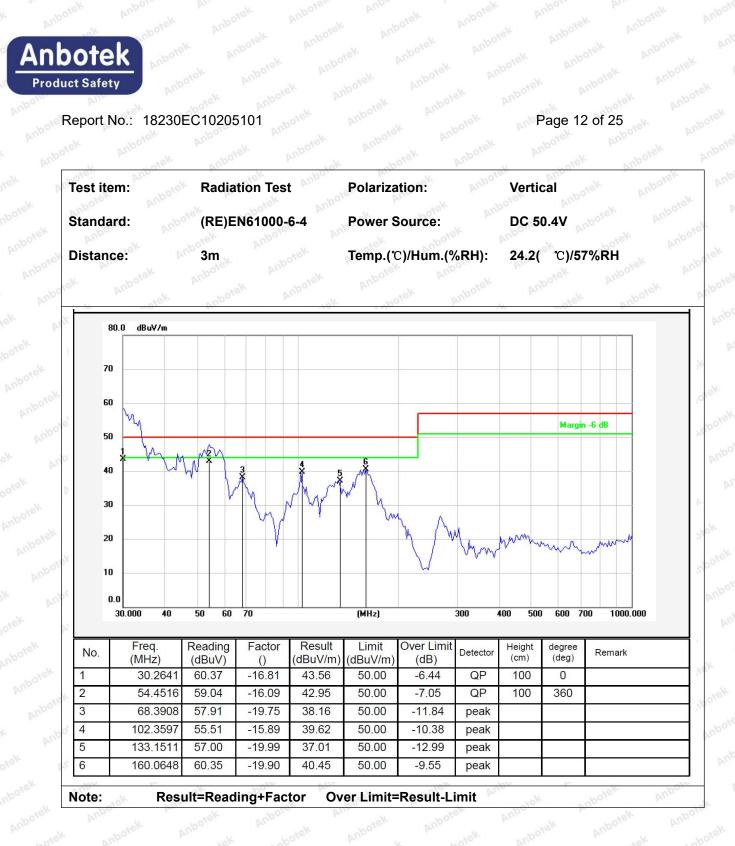
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Page 13 of 25

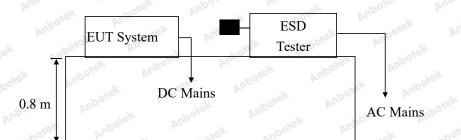
3. Electrostatic Discharge Immunity Test

3.1. Test Standard and Level

Test Standard:	EN II	EN IEC 61000-6-2 (IEC 61000-4-2)					Pupo.
Performance Criterion:	в	Anbotek	Anboro	k Pu	botek	Anbotek	Anb
Severity Level: 3 / Air Discharge: ±8k\	, Leve	I: 2 / Contact	t Discharge	e: ±4kV	p. notel	< Anbotek	P

	nboten	And	hot	ek Anbo	Fest Level	stell by	boten	And	hotel
ý.	Laval			Test Voltage	:		Te	est Voltage	
	Level		Contact Discharge (kV)			Air Discharge (kV)			
o'ler	1.	sk ant	otek	Anboit ±2	Al. abotek	Anboten	And	±2	ibotek A
500	2.	otek	Inbotek	±4	A. abotek	Anboto.	P.M	±4	Anbotek
P.	3.	obotek	Anbotek	±6	anbotel	Pupo	-ok	±8	Anboten
	Anbor 4.	pinobotek	Anbote	±8	otek Anbr	tek An	bor sek	±15	Anboten
	X.	Anbote	K AUD	Special	hotek p	(botek	Anbo	Special	ek Anbo

3.2. Test Setup



3.3. EUT Configuration on Measurement

The following equipments are installed on electrostatic discharge immunity measurement to meet EN IEC 61000-6-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

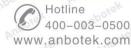
3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown on Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. After that, let the EUT work in test mode measure it.

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Code:AB-EMC-02-b





Page 14 of 25

3.5. Test Procedure

3.5.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed

3.5.2. Contact Discharge:

All the procedure shall be same as Section 3.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

3.5.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

3.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions $0.5m \times 0.5m$, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

3.6. Test Results PASS

Please refer to the following page.

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Report No.: 18230EC10205101

Page 15 of 25

Electrostatic Discharge Test Results

Air discharge :	±8.0kV	Temperature :	25.4℃
Contact discharge :	±4.0kV	Humidity :	53%
Power Supply :	DC 50.4V	Expert conclusion :	A Anboten Anb
Number of discharge :	10 Andrew Andrew	Test Result:	🛛 Pass 🗌 Fail

Screen4 pointsAImage: CImage: DButton4 pointsAImage: CImage: DButton4 pointsAImage: CImage: DSlot4 pointsAImage: DImage: CHCP4 pointsCImage: CImage: DVCP of the front4 pointsCImage: DVCP of the rear4 pointsCImage: DVCP of the left4 pointsCImage: DVCP of the left4 pointsCImage: DVCP of the right4 pointsCI	Anbolek Anbolek Loca	tion Anborek Anborek	Kind A-Air Discharge C-Contact Discharge	Result
Button4 pointsA□ C□ DSlot4 pointsA□ C□ DHCP4 pointsC□ C□ DVCP of the front4 pointsC□ C□ DVCP of the rear4 pointsC□ C□ DVCP of the left4 pointsC□ C□ DVCP of the right4 pointsC□ C□ D	Screen	4 points	Anboro Ano	
Slot4 pointsA \Box C \Box DHCP4 pointsC \Box ABVCP of the front4 pointsC \Box ABVCP of the rear4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the rear4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box ADUCP of the righ	Button	4 points	otek Andrek An	
HCP4 pointsC \Box C \Box CVCP of the front4 pointsC \Box ABVCP of the rear4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the right4 pointsC \Box ABVCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box AD	Slot model product	4 points	Anbotek A Anbotek	
VCP of the front4 pointsC \Box C \Box CVCP of the rear4 pointsC \Box ABVCP of the left4 pointsC \Box ABVCP of the right4 pointsC \Box ABVCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box ABUCP of the right4 pointsC \Box AD	HCP Anborek Anborek	4 points	Anbotek C Anbote	K por p
VCP of the rear4 pointsC \Box C \Box CVCP of the left4 pointsC \Box ABVCP of the right4 pointsC \Box A \Box BVCP of the right4 pointsC \Box A \Box B	VCP of the front	4 points	prek Ant Cek Ant	
VCP of the left4 pointsCICIDVCP of the right4 pointsCIDIDVCP of the right4 pointsCID	VCP of the rear	4 points	nbotek Choose	
VCP of the right 4 points C □ C □ D	VCP of the left	4 points	Anborek C Anborek	
Anbotek	VCP of the right	4 points	Anboten Anb	ALL ALL
der sol provide sol	Anbotek Anbote And	ntotek Anbotek Anb	botek Anbotek P	nbotek Anbotek

Remark: Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

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Page 16 of 25

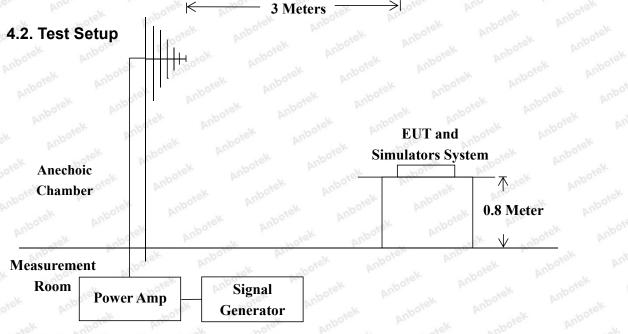
4. RF Field Strength Susceptibility Test

4.1. Test Standard and Level

EN IEC 61000-6-2 (IEC 61000-4-3)
A Anbor A Anborek Anbore And Anborek Anborek Anborek Anborek
80MHz to 1000MHz/ 1.4GHz to 6.0GHz
10 V/m, 3V/m
1kHz Sine Wave, 80%, AM Modulation
1 % of preceding frequency value
Horizontal and Vertical
3 m knoote And botek Anbotek Anbotek Mootek M
1.5 m Anbolic Anbolick Anbolick Anbolick
at least 0.5s

Test Level

	11		Field Strength V/m					
	Level							
oten Anbu	1.	nbotek	Anbore A	botek	Anboren	Anbo	× ~	nbotek
inboten An	2.	Anbotek	Anbore	Annabotek	3	Anb	otek	Anbotek
Anbote	3. hotek	Anbotek	Anbo	Anbotek	1000	e. An	hotek	Anbotek
Anboro	Х.	K Anbo	ler Aupo	ek abot	Special	point	hotek	Anbot



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Code:AB-EMC-02-b

Page 17 of 25

4.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN IEC 61000-6-2 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

4.5. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

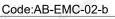
- 1) 80 MHz to 1000 MHz the field strength level was 10V/m, 1.4 GHz to 6.0 GHz the field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz, 1.4 GHz to 6.0 GHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.6. Measuring Results PASS

Please refer to the following page.

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Page 18 of 25

RF Field Strength Susceptibility Test Results

Field Strength :	10 V/m, 3V/m	Temperature :	25.1℃
Expert conclusion :	A Anbotek Anbo	Humidity :	54%
Power Supply :	DC 50.4V	Test Result :	🛛 Pass 🗌 Fail
Dwell Time:	1s Martin	Anbotek Anbote.	And anbotek Anbotek A

Frequency Range	Antenna Polarity	R.F. Field Strength	Azimuth	Result
ek Anboter	And botek Anbo	tek Anbo. At	Front	And abotek Ar
	Anbotek A		Rear Mo	⊠A □B
80MHz~1000MHz	H / V	10 V/m (rms)	Left	
Anboitek Ant	otek Anboten	Anbertek Anbotek	Right	Anbotek Anboten
ek anbotek	Inbotek Anbo	ek Anbotek Anbo	Front	Anbotek Anbo
1.4GHz~2.0GHz	Anbote Anu		Rear	⊠A □B
1.4GH2~2.0GH2	H/V M	3 V/m (rms)	Left Moo	
Anbotek Anbote	Anbotek Anbotek	Anbotek Anbotek	Right	poter Anu Anu Anbotek

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Page 19 of 25

APPENDIX I -- TEST SETUP PHOTOGRAPH

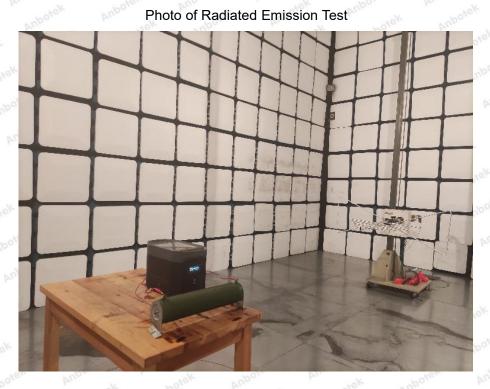


Photo of Electrostatic Discharge Immunity Test



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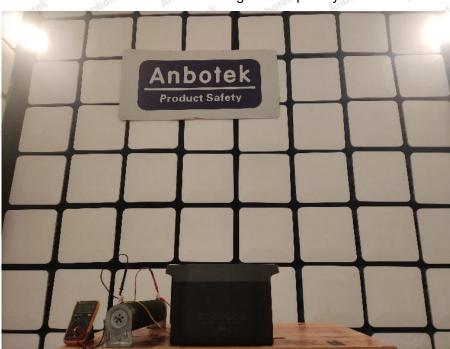


Photo of RF Field Strength susceptibility Test

Report No.: 18230EC10205101



Page 20 of 25



Page 21 of 25

APPENDIX II -- Photo documentation



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Page 22 of 25



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Page 23 of 25



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Code:AB-EMC-02-b



Page 24 of 25





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Code:AB-EMC-02-b



Page 25 of 25

CE Label

- 1. The CE conformity marking must consist of the initials 'CE' taking the following form:
 - If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
- The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
- 3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
- 4. The CE marking must be affixed visibly, legibly and indelibly.It must have the same height as the initials 'CE'.

- End of Report ----

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