

Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 1 of 13

# **FCC TEST REPORT**

Client Name : ZIKETECH LLC

Address 200 CONTINENTAL DRIVE STE 401 RM434

NEWARK ,DE 19713

Product Name : 2-in-1 Wireless charger with Magsafe

Date : Jun. 25, 2022





Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 2

# **Contents**

General Information	VUD			b11.	
1.1. Client Information	popole.	Yur.	nbotek.	Anbo,	4
1.2. Description of Device (EUT)	, potek	Anbo.	k Hotek	eupote,	Anv
1.3. Auxiliary Equipment Used During	Test	k anbote	Ans	310djj	
1.4. Test Equipment List	Var.		otek Anbo		Je <sup>k</sup> !
1.5. Measurement Uncertainty	jotek Anb		motek pat	ote. An	
1.6. Description of Test Facility	otek	upose b	iu.	"botek	Maribu
2. Measurement and Result	·····	Mahoten.	Ando	otek	Mporc
2.1. Requirements	Auga	otek	Anbors	bin.	, abd
2.2. Test Setup	Anboro	Pr.	L pototer	Anbe	8
2.3. Test Procedure	k Ropo <sub>te,</sub>	Amba		Anbor	8
2.4. Test Result		yek Anbe	Dr. Dr.	day Yan	
APPENDIX I TEST SETUP PHOTOGRA	PH				otek 1

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Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 3 of 13

# TEST REPORT

Applicant : ZIKETECH LLC

Manufacturer : Gopod Group Holding Limited

Product Name : 2-in-1 Wireless charger with Magsafe

Model No. : Z557

Trade Mark : ZIKE

Input: 15V= 3.0A

Rating(s) : Output 1: 7.5W, 15W Max

Output 2: 5W, 7.5W, 10W Max

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

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 1.1307 & KDB680106 D01 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 May 13, 2022

Date of Test May 13~31, 2022

Prepared By

(TuTu Hong)

Approved & Authorized Signer

(Kingkong Jin)



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557

# 1. General Information

# 1.1. Client Information

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Applicant	: ZIKETECH LLC
Address	: 200 CONTINENTAL DRIVE STE 401 RM434 NEWARK ,DE 19713
Manufacturer	: Gopod Group Holding Limited
Address	4/F,5/F,6/F of Building#8,1/F of Building#3,4/F of Building#6,Unibuilt Science and Technology Industrial Park, Huarong Road, Henglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Factory	: Gopod Group Holding Limited
Address	4/F,5/F,6/F of Building#8,1/F of Building#3,4/F of Building#6,Unibuilt Science and Technology Industrial Park, Huarong Road, Henglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

# 1.2. Description of Device (EUT)

Product Name	:	2-in-1 Wireless charger	with Magsafe
Model No.	:	Z557	Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	ZIKE	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adap	oter Anborek Anborek Anborek Anbor
Test Sample No.	:	1-2-1(Normal Sample),	1-2-2(Engineering Sample)
		Operation Frequency:	Phone: 127.7KHz, 360KHz Wireless charging load: 110.1-205KHz
		Modulation Type:	FSK Anborek Anborek
Product		Antenna Type:	Inductive loop coil Antenna
Description	-	Antenna Gain(Peak):	0 dBi(Provided by customer)
		Adapter:	Model: A481-1503000I Input:100-240V~50/60Hz 1.5A Output: 15V= 3A 45.0W

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 5 of 13

# 1.3. Auxiliary Equipment Used During Test

P	Wireless charging	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
	load		M/N: CD2577
			Power: 5W/7.5W/10W/15W
Y			Last Cal.: Oct. 26, 2020
			Cal. Interval: 1 Year
,0	Phone	:	Iphone 12

## 1.4. Test Equipment List

	~10"		0.1		-07	Y	. 0
K	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
00	ek 1 potek	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Nov. 12, 2021	1 Year

# 1.5. Measurement Uncertainty

1	Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	An abotek	Aupoter	Anborok	Anbote
37	Electric Field Reading(V/m)	:	+/-0.03679(V/m)	anbotek	Anbore.	k hotek	Ant



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 6 of 13

#### 1.6. 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. 518102



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 7 of 13

## 2. Measurement and Result

### 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	I	I	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



Code:AB-RF-05-a

Hotline

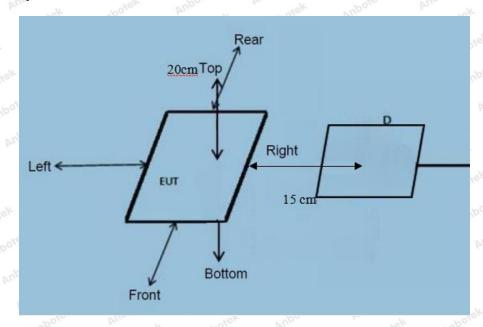


<sup>\*=</sup>Plane-wave equivalent power density



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 8 of 13

#### 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

#### 2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03. Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range 110.1-205KHz and 360KHz, 127.7KHz.
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.

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Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 9 of 13

- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
  - The EUT is a Mobile exposure conditions
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 10 of 13

### 2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

### E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

	Frequency	Test	Test	Test	Test	Test	Referenc	Limit
Battery	Range	Positio	Positio	Positio	Positio	Positio	е	_s
power	(KHz)	n	n –	n	n	n _	Limit	Test
	()	Α	В	С	D	E	(V/m)	(V/m)
1%	110.1-205/360/127.7	0.36	0.45	0.40	0.41	0.53	307	614
50%	110.1-205/360/127.7	1.40	1.84	1.33	1.46	1.63	307	614
99%	110.1-205/360/127.7	2.47	2.87	2.48	2.43	2.89	307	614
Stand-b y	110.1-205/360/127.7	0.43	0.58	0.42	0.41	0.55	307	614

#### H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Positio n A	Test Position B	Test Positio n C	Test Position D	Test Positio n E	Referenc e Limit (A/m)	Limits Test (A/m)
1%	110.1-205/360/127.7	0.028	0.050	0.056	0.040	0.050	0.815	1.63
50%	110.1-205/360/127.7	0.39	0.48	0.38	0.38	0.55	0.815	1.63
99%	110.1-205/360/127.7	0.46	0.64	0.53	0.35	0.34	0.815	1.63
Stand-b y	110.1-205/360/127.7	0.51	0.33	0.43	0.55	0.41	0.815	1.63

## Note:

- 1)All modulation and situation(full load, half load and empty load) has been tested, only the worst situation (full load 25W) was recorded in the report.
- 2)The frequencies 127.7KHz and 360KHz do not support simultaneous transmission. During the test, measure 360KHz and 110.1-205KHz.

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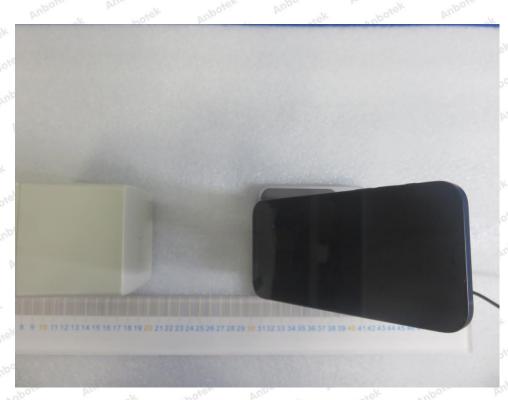


Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 11 of 13

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement



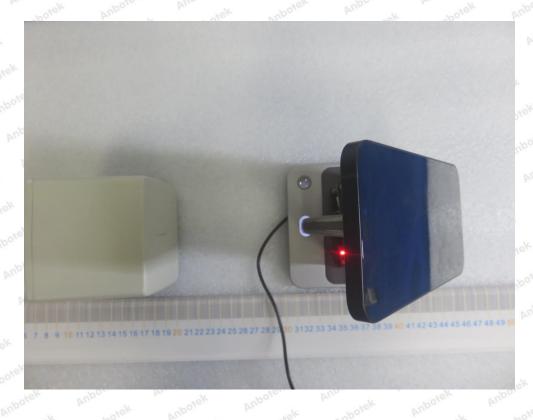


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Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 12 of 13





#### **Shenzhen Anbotek Compliance Laboratory Limited**



Report No.: 18220WC20104402 FCC ID: 2A4NN-Z557 Page 13 of 13



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