

 Report No.: 18220WC10053902
 FCC ID: 2AZHE-NS2627
 Page 1 of 13

FCC TEST REPORT

Client Name : Rubber Road Ltd

Address

Attimore Barn, Ridgeway, Welwyn Garden City, Herts, AL7 2AD (UK)

Product Name : Ghostbusters Charging Mat

Date : Apr. 28, 2021



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	E Rubber Road Ltd
Manufacturer	E Rubber Road Ltd
Product Name	Ghostbusters Charging Mat
Model No.	: NS2627, NS2762
Trade Mark	: N/A
Rating(s)	Input: 5V==2A, 9V==2A Output: 5W, 10W

Test Standard(s)	:	FCC Part 1.1310, 1.1307(b)
Test Method(s)	36	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 Date of Test

Prepared By

Reviewer

Mar. 24, 2021 Mar. 24~Apr. 06, 2021 ว

Ella siang

(Engineer / Ella Liang)

Bibs thank

(Supervisor / Bibo Zhang)

JIN. Kingkom

(Manager / Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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1. General Information

1.1. Client Information

N.	Applicant	:	Rubber Road Ltd
0	Address	:	Attimore Barn, Ridgeway, Welwyn Garden City, Herts, AL7 2AD (UK)
p.1	Manufacturer	:	Rubber Road Ltd
	Address	:	Attimore Barn, Ridgeway, Welwyn Garden City, Herts, AL7 2AD (UK)
4	Factory	:	Rubber Road Ltd
o	Address	:	Attimore Barn, Ridgeway, Welwyn Garden City, Herts, AL7 2AD (UK)

1.2. Description of Device (EUT)

Product Name	:	Ghostbusters Charging Ma	at Anbore Alle Anborek Anboren Anbo							
Model No.	:	N CYCL NOV	same except the model number and and repare "NS2627" for test only.)							
Trade Mark	:	N/A	Anbotek Anbotek Anbotek Anbotek							
Test Power Supply	:	AC 120V, 60Hz for adapter	AC 120V, 60Hz for adapter							
Test Sample No.	:	1-2-1(Normal Sample), 1-2-1(Engineering Sample)								
		Operation Frequency:	110.1-205KHz							
Product		Modulation Type:	FSK https://www.speek							
Description	:	Antenna Type:	Inductive loop coil Antenna							
		Antenna Gain(Peak):	0 dBi							

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1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: A2013	And	abotek	Anbort	Anniek
		Input: 100-240V-0.7A 50-60Hz	Anbois			Anberrok
		Output: 3.6-5.5V 3A / 6.5-9	/===2A / 9-1	2V==1.5A	abotek	Anbor

1.4. Test Equipment List

20	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
P.1	1 1 ete	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year
14	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbo, stek	Anbotek	Anbote
		Ur = 3.8 dB (Vertical)	Anbo	Anbotek	Anboit
		sek abotek Anbotr	Anbu Kotek	Anbotek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	oten Ann	tek Anbote	Aupo.

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, 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.

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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

4) 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.

Frequency range Electric field strength (MHz) (V/m)		Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)							
	(A) Limits for Occ	upational/Controlled Ex	posures								
0.3-3.0 614 1.63 *(100) 6											
3.0-30	1842/f	4.89/f	*(900/f ²)	6							
30-300	61.4	0.163	1.0	6							
300-1500	1	1	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 ²)	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							

Limits For Maximum Permissible Exposure (MPE)

F=frequency in MHz

*=Plane-wave equivalent power density

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).

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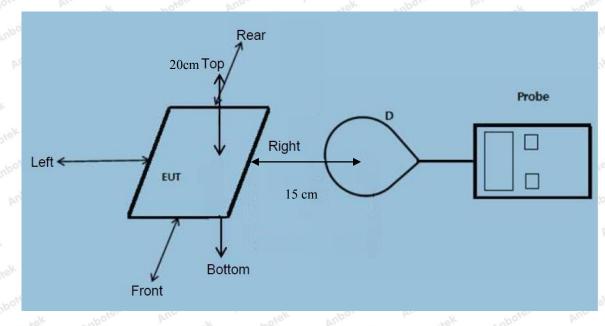
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Hotline

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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
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil is 10W.

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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 transmission system comprising a charging system with only two primary coils will only detect and allow between a single coil pair.

- 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 2.4.2

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

Temperature:	abotek	23.4°C	Relative Humidity:	56%
Pressure:	notek	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

10 TO	Dille	*CT	~ 000	100	N.	1010 N	Stor	194
Anu	Frequency	Test	Test	👌 Test 💦	Test	Test	Reference	Limits
Load	Range	Position	Position	Position	Position	Position	Limit	Test
k Anbote	(KHz)	ek A anb	o ^{tek} B pi	С	D	AIE oten	(V/m)	(V/m)
otek Anb	oton Ano	hotek F	nbotek	Anbor	putotek	Anboic	bur bur	iek pr
1%	110.1~205	0.78	0.56	0.53	0.51	0.53	307	614
Anbotek	Anbore	Anthotek	Anbotek	Anbo	tek h	potek	inbote Ar	botek
nbotek	Anboro	An-	Anbot	and Anb	otek n	Anbotek	Anboro	All
50%	110.1~205	1.37	1.97	1.46	1.42	1.32	307	614
lek pobc	tek Anbor	An	hotek	Anbotek	Anbo	hnbote	Anbore	P.D.
stek N	ibotek An	port P	botek	Anboten	Anbo	ex and	prek Anbor	PIL DI
99%	110.1~205	2.59	2.15	2.22	2.39	2.58	307	614
Anbo. stek	Anobotek	Anbote	Ant	K Anbo	tek Ant	of p	nbotek	Anbore.
Anbo	nbotek	Auporo	Dr. K	otek A	boten	Anbo	Anbotek	Anboro
Stand-by	110.1~205	0.21	0.45	0.57	0.49	0.45	307	614
tak Anbo	stek sak	otek Ar	pote.	hotek	Anbotek	Anbo	tek nbote	K Ant

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Anbotek	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Load	Range	Position	Position	Position	Position	Position	Limit	Test
Anbote	(KHz)	A	otek B P	C	Ant Dek	Amotek	(A/m)	(A/m)
stek Ant	otek Anbo	stek h	nbotek	Anboro	Annobotek	Anbote	Anbo	lek h
1%	110.1~205	0.53	0.15	0.73	0.50	0.40	0.815	1.63
hotek		Anbor	Arnobotek	Anbote	Anu Anu	hotek p	nbotek Ar	bo, tek
Annabotek	Anboten	Anbo	r nho	rek Ant	A No.	botek	Anboten	Anbo atel
50%	110.1~205	0.31	0.14	0.40	0.43	0.40	0.815	1.63
Anu		ek Anb	o. p.	nabotek	Anbote	And	Anbotek	Anbe
to Pur	botek An	poten p	nb ^c otek	Anbotek	Anboit	ok priv	rek Anbot	en p'
99%	110.1~205	0.14	0.12	0.51	0.44	0.44	0.815	1.63
Anboten		Anbotek	Anbor	ek nb	stek pr	poter A	hotek	Anbotek
Anboton	Annobotek	Anbotet	Anbo	diek p	nbotek	Anboren	Any botek	Anbotek
Stand-by	110.1~205	0.15	0.13	0.19	0.15	0.13	0.815	1.63
ek Aupo		otek A	nbotek	Anbo, tek	Antotek	Anboter	And hot	K Ar

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

Note: (1)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load, Wireless Output: 10W) was recorded in the report.

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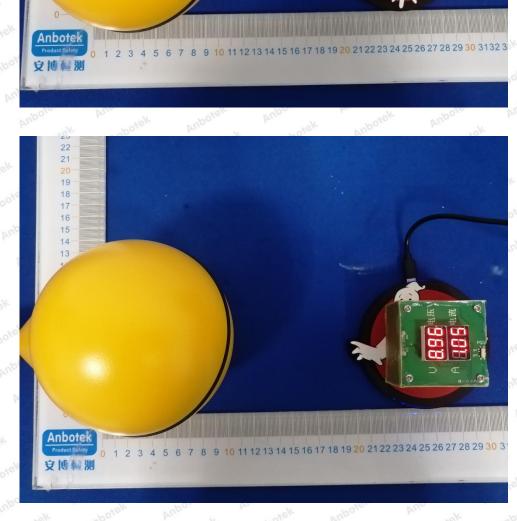


Photo of MPE Measurement

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Anbotek **Product Safety**

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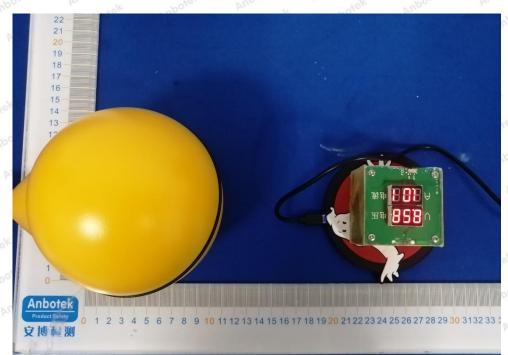
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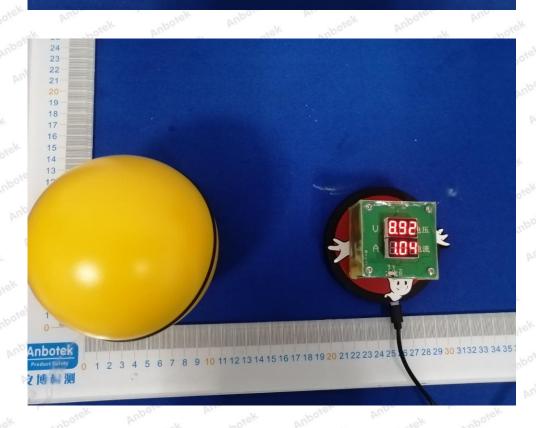
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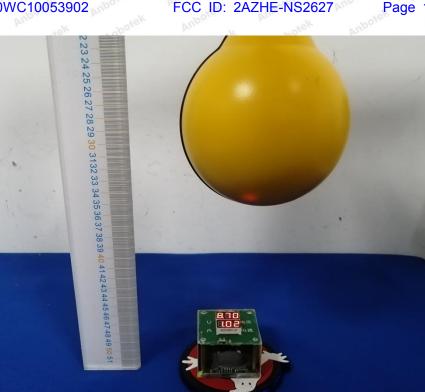
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