

Report No.: 18220WC20251201 FCC ID: 2ATWU-WI085 Page 1 of 21

FCC Test Report

Client Name :	Mei Shun He Electronic Limited
Client Address :	301, 8th Building, No.69 Xikeng Road, Xikeng Community,Fucheng Street, Longhua District, 518110, Shenzhen City, China.
Product Name	Wireless Charger

Report Date

Nov. 04, 2022

1

1 300 ratory Anbotek Shenzhen Anbotek Compliance Laboratory Limited

Approved

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Compliance

Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-b





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TEST REPORT

Applicant	: Mei Shun He Electronic Limited					
Manufacturer	: Mei Shun He Electronic Limited					
Product Name	: Wireless Charger					
Model No.	: WI085, WI085003					
Trade Mark Rating(s)	: N.A. Input: 5V= 3A, 9V= 2.22A, 12V= 1.5A Output: 5.0W/7.5W/10.0W/15.0W					

Test Standard(s):FCC Part15 Subpart C, Paragraph 15.209Test Method(s):ANSI C63.10: 2020

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 15 Subpart C 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 Oct. 24, 2022 Oct. 24~Nov. 03, 2022

Lano Flla

Prepared By

(Ella Liang)

(Kingkong Jin)

Approved & Authorized Signer

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 04, 2022
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1. General Information

1.1. Client Information

Applicant	:	Mei Shun He Electronic Limited
Address	:	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.
Manufacturer	:	Mei Shun He Electronic Limited
Address	:	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.
Factory	:	Mei Shun He Electronic Limited
Address	:	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger
Model No.	:	WI085, WI085003 (Note: All samples are the same except the model number, so we prepare "WI085" for test only.)
Trade Mark	:	N.A. Anborek Anbore Annotek Anborek Anborek Anborek A
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
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 or the User's Manual.	e d	etailed features description, please refer to the manufacturer's specifications

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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Adapter	M/N: AD651P
And botek	Input: 100-240V~1.5A, 50-60Hz
Ant Ant	Output: 5V= 3A, 9V= 3A, 10V= 5A, 12V= 3A, 15V= 3A, 20V= 3.25A
Mobile Phone	iPhone 12

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

ek.	abo, bu	_V_	noter Al	np-	he Mar	po, pr.	No	note
	Pretest Mode	e			Description			
ov stek	Mode 1	Anbor	Ansbotek	Anboten	WPT Mode	Anbotek	Anbore	Price
AUDA	4 wotek	Anboi	Pur rek	aboten	Anber	Lotek	Anbor	P

	For Conducted Emission				
Final Test Mode Description					
Mode 1	WPT Mode				
Anbo	Anbore Ant stek unboter Anbo ak hotek A				

For Radiated Emission				
Final Test Mode	Description			
Mode 1	WPT Mode	ek.		

Note:

(1) Test channel is 0.1285MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 15W) was recorded in the report.

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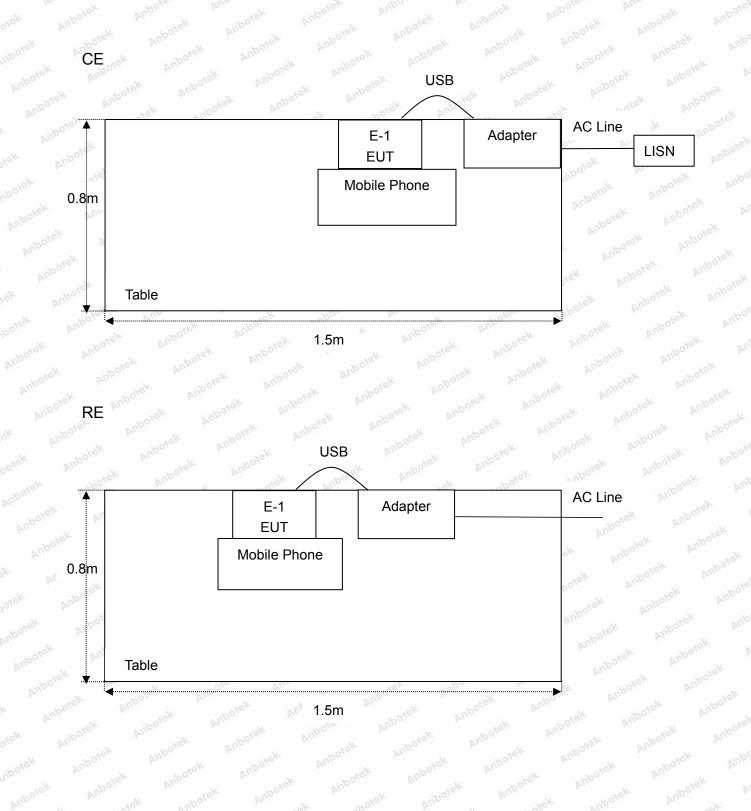
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1.5. Description Of Test Setup



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1. 40	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Yea
2.4	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Yea
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Yea
4.Ant	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Yea
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Yea
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Yea
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 13, 2022	1 Yea
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Yea
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Yea
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Yea
11.00	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 23, 2022	1 Yea
12. 🎙	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Yea
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A hoose	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Yea
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Yea
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Yea
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Yea
botek 18. Anbot	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	And	Oct. 19, 2022	1 Yea

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1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbotek	Anbo	Anbotek
		Ur = 3.8 dB (Vertical)	Anboten	And	Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB	K Anbore	And botek	Anbote

1.8. 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.

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2. Summary of Test Results

Standa	rd Section	Test Item	Result		
Anboten 15	5.203	Antenna Requirement	PASS		
Anbore 1	5.207	Conducted Emission Test	PASS		
15.20)5/15.209	Spurious Emission	PASS		

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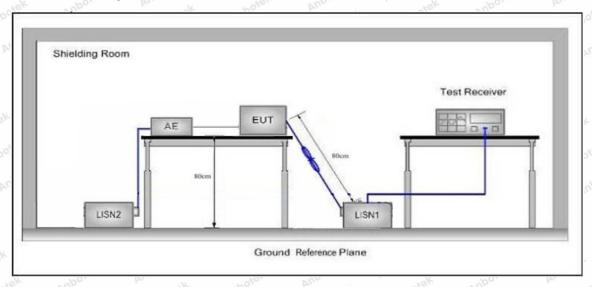
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3. Conducted Emission Test

3.1. Test Standard and Limit

		Maximum RF Line Voltage (dBuV)							
	Frequency	Quasi-peak Level	Average Level						
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *						
	500kHz~5MHz	56 spotes	46 de						
	5MHz~30MHz	60	50 Miles						

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.

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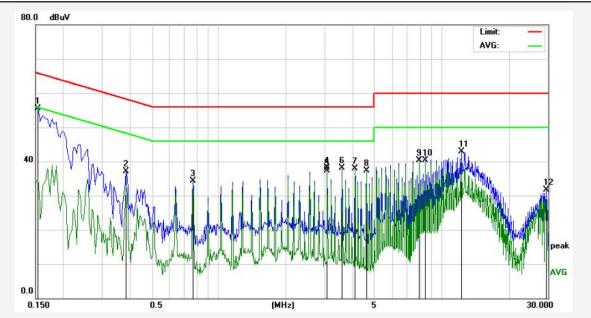
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Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
Temp.(℃)/Hum.(%RH):	23.9℃/45%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	45.85	9.70	55.55	65.78	-10.23	QP	
2	0.3820	27.30	9.71	37.01	58.23	-21.22	QP	
3	0.7660	24.64	9.75	34.39	56.00	-21.61	QP	
4	3.0660	28.32	9.73	38.05	56.00	- <mark>17.9</mark> 5	QP	
5	3.0660	27.59	9.73	37.32	46.00	-8.68	AVG	
6	3.5780	28.40	9.74	38.14	46.00	-7.86	AVG	
7	4.0900	28.24	9.73	37.97	46.00	-8.03	AVG	
8	4.6020	27.63	9.74	37.37	46.00	-8.63	AVG	
9	7.9220	30.43	9.81	40.24	50.00	-9.76	AVG	
10	<mark>8.4340</mark>	30.42	9.81	40.23	50.00	-9.77	AVG	
11	12.2660	32.99	9.90	42.89	60.00	-17.11	QP	
12	29.5180	21.44	10.29	31.73	60.00	-28.27	QP	5

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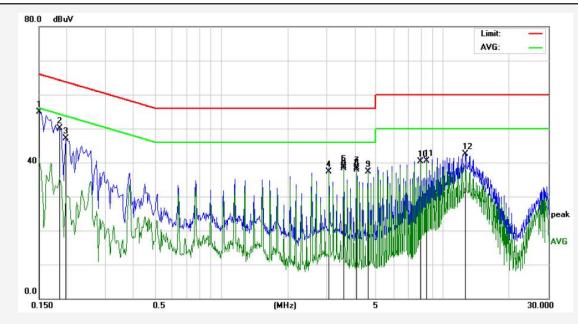


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Conducted Emission Test Data

Test Site:	
Operating Condition:	
Test Specification:	
Comment:	
Temp.(°C)/Hum.(%RH):	

at Data 1# Shielded Room Mode 1 AC 120V, 60Hz for adapter Neutral Line 23.9℃/45%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	45.19	9.69	54.88	65.99	-11.11	QP	
2	0.1860	40.42	9.71	50.13	64.21	-14.08	QP	
3	0.1980	37.36	9.71	47.07	63.69	-16.62	QP	
4	3.0660	27.67	9.73	37.40	46.00	-8.60	AVG	
5	3.5780	29.14	9.74	38.88	56.00	-17.12	QP	
6	3.5780	28.47	9.74	38.21	46.00	-7.79	AVG	
7	4.0900	28.74	9.73	38.47	56.00	-17.53	QP	
8	4.0900	28.24	9.73	37.97	46.00	-8.03	AVG	
9	4.5980	27.50	9.74	37.24	46.00	<mark>-8.76</mark>	AVG	
10	7.9220	<mark>30.49</mark>	9.81	40.30	50.00	-9.70	AVG	
11	8.4340	30.63	9.81	40.44	50.00	-9.56	AVG	
12	12.6500	32.56	9.92	42.48	60.00	-17.52	QP	

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4. Radiation Spurious Emission

4.1. Test Standard and Limit

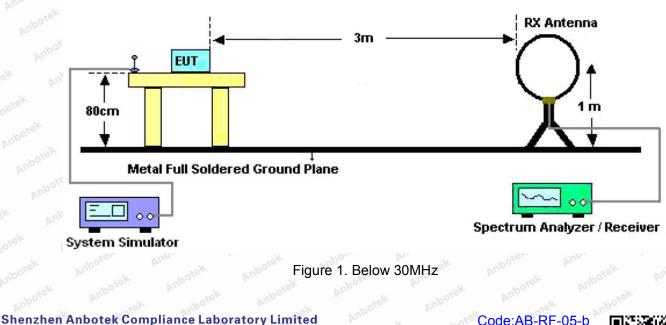
Test Standard	FCC Part15 C Section 1	5.209 and 15.205			otek nobotel
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbor	Pr. obolek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbo	An nbotek	30
	1.705MHz-30MHz	30	rek _ Anbo	ek	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 Anbor
	88MHz~216MHz	150	43.5	Quasi-peak	botek 3 Anbo
	216MHz~960MHz	200	46.0	Quasi-peak	Anbote 3 Ar
	960MHz~1000MHz	500	54.0	Quasi-peak	3
		500	54.0	Average	3
	Above 1000MHz	Anto-borek An	74.0	Peak	ek 3Anborer

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup



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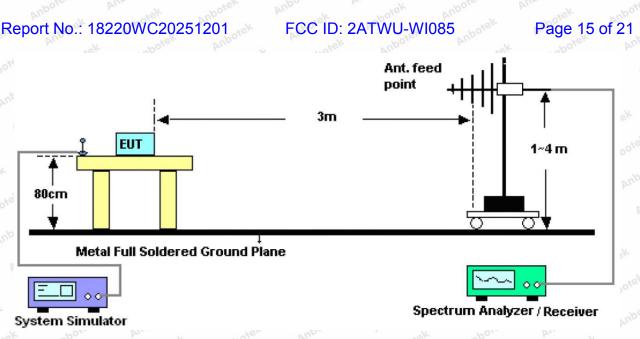


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. 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. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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4

5

6

0.0509

0.0772

0.1285

24.03

18.69

37.13

20.41

20.36

20.34

44.44

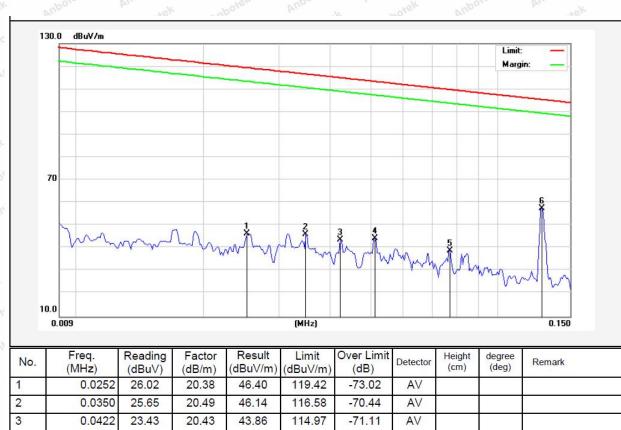
39.05

57.47

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Test Results (Between 9KHz – 150KHz)

Test Mode:	Mode 1
Distance:	3m And Sm And
Power Source:	AC 120V, 60Hz for adapter
Temp.(℃)/Hum.(%RH):	22.5℃/50%RH



113.35

109.75

105.35

-68.91

-70.70

-47.88

AV

AV

AV

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6

16.7497

5.45

20.55

26.00

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Test Results (Between 0.15MHz - 30MHz)

Test Mode:	Mode 1
Distance:	3m March March
Power Source:	AC 120V, 60Hz for adapter
Temp.(℃)/Hum.(%RH):	22.5℃/50%RH



Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

-43.50

QP

69.50

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Test Results (Between 30MHz -1000 MHz)

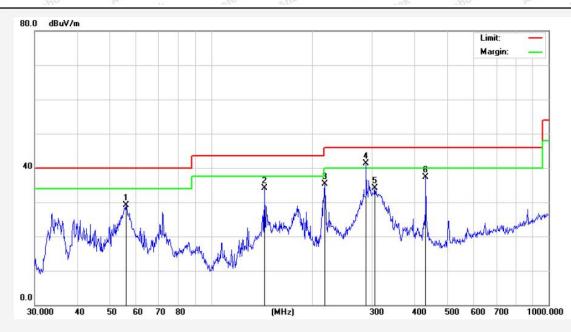
- Test Mode: Distance: Power Source:
 - er Source:
- Polarization:
- Horizontal .(%RH): 22.5℃/50%RH

Mode 1

AC 120V, 60Hz for adapter

3m

Temp.(℃)/Hum.(%RH):



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark	
1	56.0007	46.62	-17.60	29.02	40.00	-10.98	QP				
2	143.8295	57.06	-22.99	34.07	43.50	-9.43	QP				
3	216.7828	57.29	-22.05	35.24	46.00	-10.76	QP				
4	287.9904	59.44	-18.20	41.24	46.00	-4.76	QP				
5	305.6800	51.06	-17.03	34.03	46.00	-11.97	QP				
6	432.5457	52.93	-15.71	37.22	46.00	-8.78	QP				

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Test Mode:	Mode 1
Distance:	3m And ek sporek Anbore And sotek
Power Source:	AC 120V, 60Hz for adapter
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	22.5℃/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.7986	53.82	-17.34	36.48	40.00	-3.52	QP			
2	39.1613	51.95	-14.99	36.96	40.00	-3.04	QP			
3	53.3179	50.49	-17.00	33.49	40.00	-6.51	QP			
4	143.8293	62.47	-22.15	40.32	43.50	-3.18	QP			
5	287.9904	59.37	-16.67	42.70	46.00	-3.30	QP			
6	432.5457	56.01	- <mark>13</mark> .95	42.06	46.00	-3.94	QP			

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5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	 1) 15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

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.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

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

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