

Report No.: 18220WC30187801 Page 1 of 21 FCC ID: 2ARI5-B2302

FCC Test Report

Applicant Shenzhen Lingyi Innovation Technology Co., Ltd.

12 F, Block C, Central Avenue Building, Xixiang

BLVD West, Baoan District, Shenzhen, Address

Guangdong, CN

MagEZ Car Mount Pro 2 Product Name

Report Date : Sept. 26, 2023



ce µaboratory Limited







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TEST REPORT

Applicant : Shenzhen Lingyi Innovation Technology Co., Ltd.

Manufacturer : Shenzhen Lingyi Innovation Technology Co., Ltd.

Product Name : MagEZ Car Mount Pro 2

Test Model No. : B2302

Reference Model No. : N/A

Trade Mark : PITAKA

Rating(s)

Input: DC 5V/3A, 9V/2A, 12V/1.5A

Wireless output: 5W/7.5W/10W/15W Max

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209

Test 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

Sept. 04, 2023

Sept. 04~Sept. 11, 2023

W 7u Hong

Prepared By (TuTu Hong)

Anbotek Anbotek Anbotek Anbotek Anbotak

Approved & Authorized Signer

(Edward Pan)









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Revision History

Repo	ort Version			Descripti	on		ssued Date	
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A. otek	Anbores	VU	You	abotek	Aupor	Pro Otek	Aupolea	Ville





1. General Information

1.1. Client Information

Applicant	: Shenzhen Ling	gyi Innovation Technology Co., Ltd.
Address	: 12 F, Block C, Shenzhen, Gua	Central Avenue Building, Xixiang BLVD West, Baoan District, angdong, CN
Manufacturer	: Shenzhen Ling	gyi Innovation Technology Co., Ltd.
Address	: 12 F, Block C, Shenzhen, Gua	Central Avenue Building, Xixiang BLVD West, Baoan District, angdong, CN
Factory	: Shenzhen Ling	gyi Innovation Technology Co., Ltd.
Address 12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan E Shenzhen, Guangdong, CN		Me All

1.2. Description of Device (EUT)

Product Name	:	MagEZ Car Mount Pro 2
Test Model No.	:	B2302
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	♦ PITAKA
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A nbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi dek Anborek Anborek Anborek Anborek
Pomark:	30	e Pupo, by rek spotes Pupo,

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	hotek Anbotek Anbot

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.

Pretest Mode	Description
Mode 1	Adapter+WPT Mode

	For Conducted Emission	
Final Test Mode	Description	
Mode 1	Adapter+WPT Mode	P.

For Radiated Emission					
Final Test Mode	Description				
Mode 1	Adapter+WPT Mode				

Note:

- (1) Test channel is 0.1302MHz.
- (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.

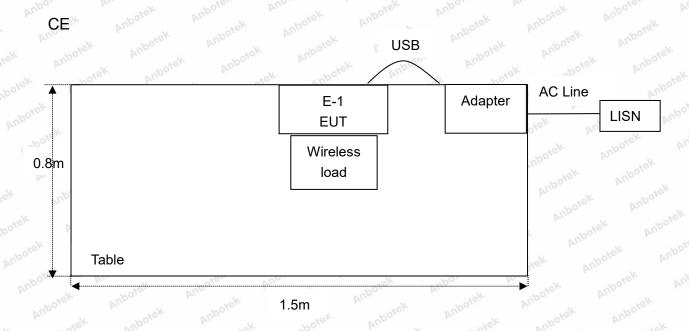


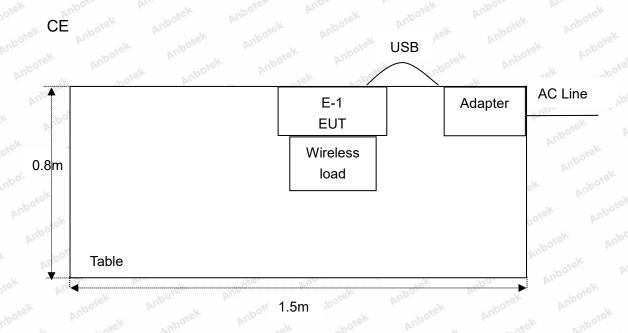




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1.5. Description Of Test Setup













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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbo 1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.º ¹	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5. _{An} i	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 13, 2022	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 23, 2022	1 Year
e\11.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 19, 2022	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct.26, 2022	1 Year





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1.7. Measurement Uncertainty

	Parameter	Uncertainty
C	Conducted emissions (AMN 150kHz~30MHz)	3.8dB Anborek Anborek
F	Radiated spurious emissions (Below 30MHz)	3.53dB
o'le F	Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-b
Hotline
400-003-0500
www.anbotek.com.cn





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2. Summary of Test Results

	Standard Section	Test Item	Result	
-	15.203	Antenna Requirement	PASS	
N.	15.207	Conducted Emission Test	PASS	
olek	15.205/15.209	Spurious Emission	PASS	





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3. Conducted Emission Test

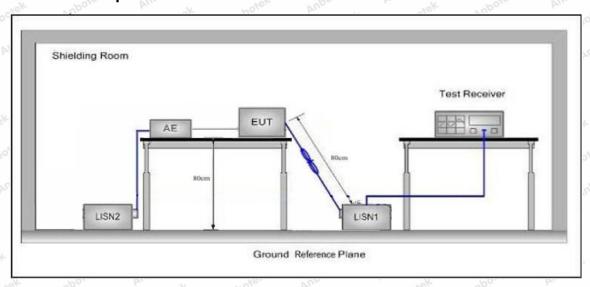
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	07 American			
	Fraguenov	Maximum RF Line Voltage (dBuV)			
	Frequency	Quasi-peak Level	Average Level		
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
	500kHz~5MHz	56 ₁₀₀₁ 21	Anto 46		
	5MHz~30MHz	60	ek Anbore 50 Ame		

Remark: (1) *Decreasing linearly with logarithm of the frequency.

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

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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Conducted Emission Test Data

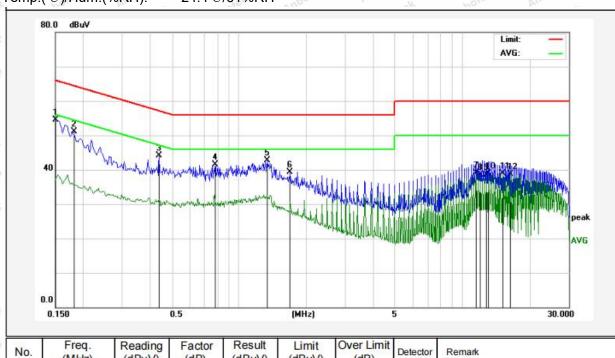
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 24.4°C/61%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	34.64	19.82	54.46	65.99	-11.53	QP	2
2	0.1819	31.23	19.83	51.06	64.39	-13.33	QP	2 2
3	0.4380	24.23	19.83	44.06	57.10	-13.04	QP	2
4	0.7820	21.65	19.86	41.51	56.00	-14.49	QP	
5	1.3420	22.91	19.84	42.75	56.00	-13.25	QP	
6	1.6980	19.38	19.84	39.22	56.00	-16.78	QP	
7	11.5020	19.16	20.03	39.19	50.00	-10.81	AVG	
8	12.0260	18.53	20.06	38.59	50.00	-11.41	AVG	
9	12.8100	18.37	20.09	38.46	50.00	-11.54	AVG	
10	13.0700	18.79	20.10	38.89	50.00	-11.11	AVG	
11	15.1620	18.73	20.18	38.91	50.00	-11.09	AVG	
12	16.4700	18.40	20.22	38.62	50.00	-11.38	AVG	





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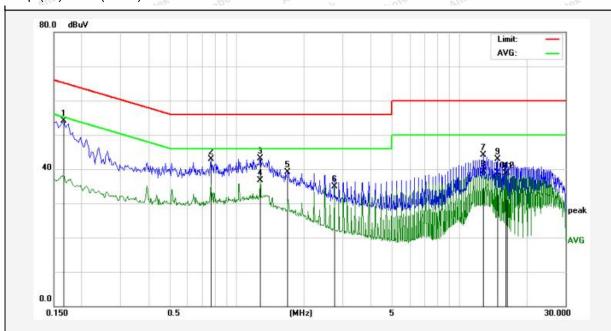
Conducted Emission Test Data

Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 24.4 $^{\circ}$ C/61 $^{\circ}$ RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1660	34.22	19.83	54.05	65.15	-11.10	QP	
2	0.7660	23.00	19.87	42.87	56.00	-13.13	QP	
3	1.2740	23.22	19.84	43.06	56.00	-12.94	QP	
4	1.2740	16.83	19.84	36.67	46.00	-9.33	AVG	
5	1.6980	19.26	19.84	39.10	56.00	-16.90	QP	
6	2.7460	15.14	19.84	34.98	46.00	-11.02	AVG	
7	12.8100	23.99	20.09	44.08	60.00	-15.92	QP	
8	12.8100	19.16	20.09	39.25	50.00	-10.75	AVG	
9	14.9020	22.78	20.18	42.96	60.00	-17.04	QP	
10	14.9020	18.67	20.18	38.85	50.00	-11.15	AVG	
11	16.2099	18.50	20.21	38.71	50.00	-11.29	AVG	
12	16.4700	18.59	20.22	38.81	50.00	-11.19	AVG	
	V	1007	Di		100	84-	9-	V 100'





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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			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbo.	br. apolek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbo. stek	a nbotek	30
	1.705MHz-30MHz	30	lek Vupo.	ek -nbotel	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	stek 3 Anbore
	88MHz~216MHz	150	43.5	Quasi-peak	hotek 3 Anbi
	216MHz~960MHz	200	46.0	Quasi-peak	Anborek 3
	960MHz~1000MHz	500	54.0	Quasi-peak	Anb 3
	Above 4000MU-	500	54.0	Average	A3 0101
	Above 1000MHz	And horsk An	74.0	Peak	Jek 3 _{Anbore}

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

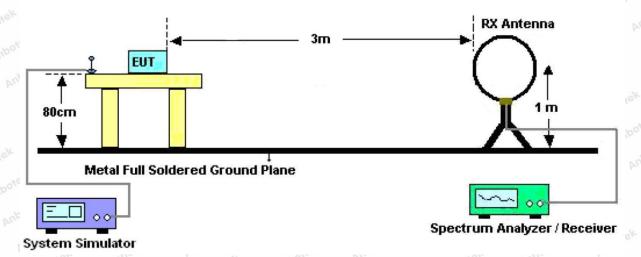


Figure 1. Below 30MHz







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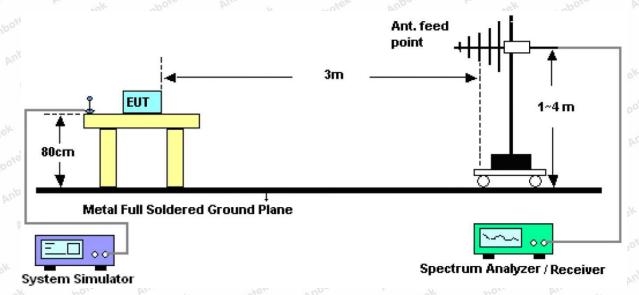


Figure 2. 30MHz to 1GHz

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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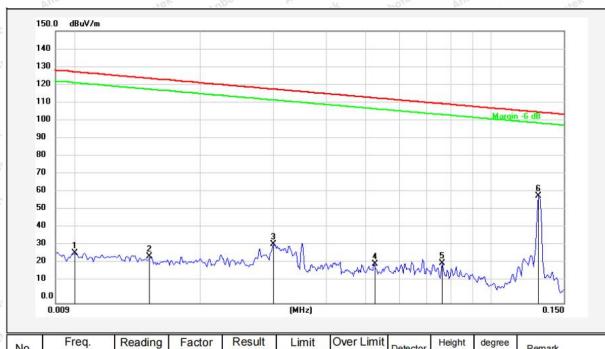
Test Results (Between 9kHz - 150kHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

24.2℃/52%RH Temp.(°C)/Hum.(%RH):



No.	Freq. (MHz)	(dBuV)	(dB/m)	(dBuV/m)	Limit (dBuV/m)	(dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0100	7.54	20.09	27.63	127.40	-99.77	QP	2.		
2	0.0151	5.26	20.29	25.55	123.84	-98.29	QP			
3	0.0300	11.88	20.54	32.42	117.91	-85.49	QP			
4	0.0524	1.22	20.39	21.61	113.10	-91.49	QP			
5	0.0763	1.65	20.37	22.02	109.85	-87.83	QP			
6	0.1302	38.79	20.34	59.13	105.24	-46.11	QP			





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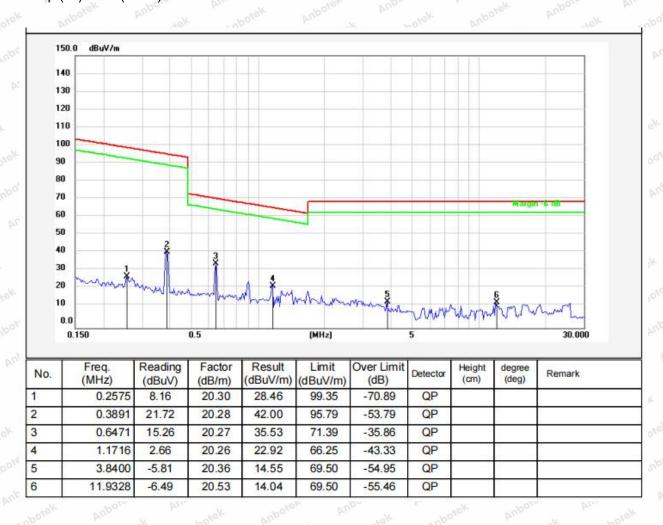
Test Results (Between 0.15MHz - 30MHz)

Test Mode: Mode 1

Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Temp.(°C)/Hum.(%RH): 24.2°C/52%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.







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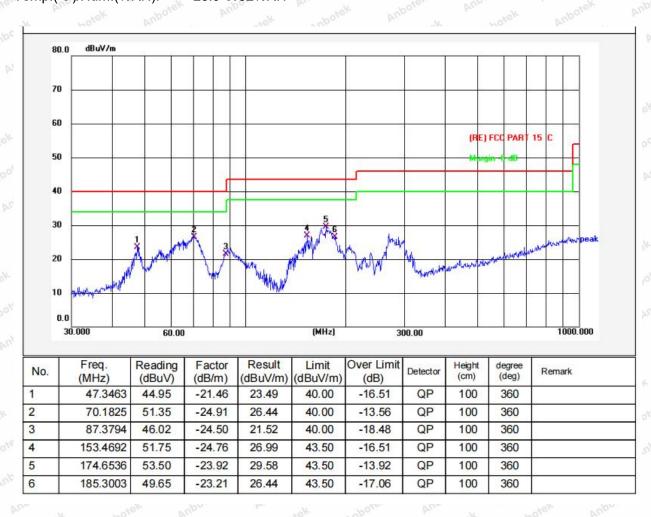
Test Results (Between 30MHz -1000 MHz)

Test Mode: Mode 1
Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 25.9°C/52%RH







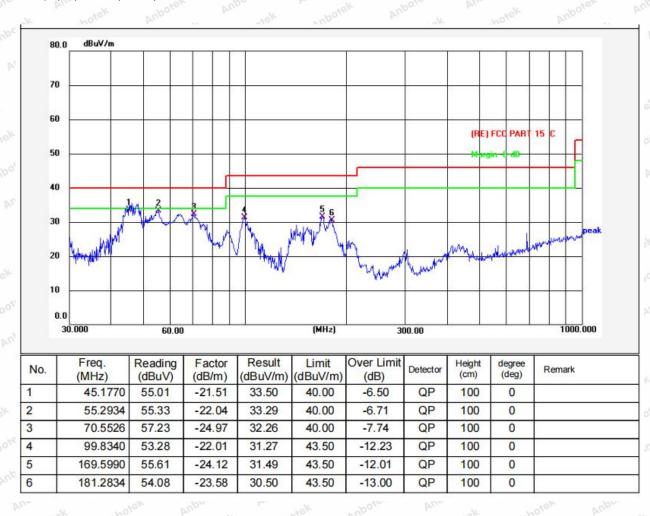
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Test Mode: Mode 1 Distance: 3m

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

25.9℃/52%RH Temp.(°C)/Hum.(%RH):







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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_RF

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

"Olek Dule	End	of Report	100°

