

FCC Test Report

Applicant : TELEPHONE EST (HK) CO., LTD

Address : Room709,7F, FuLi tianhe commercial
: building, Linhe East Road and tianhe district,
Guangzhou, China

Product Name : Wireless Charging Selfie Grip with 5000mAh
: Portable Power

Report Date : Sept. 06, 2023

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
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Report No.: 18220WC30177702

FCC ID: 2ACE5-IHQI3

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TEST REPORT

Applicant : TELEPHONE EST (HK) CO., LTD
Manufacturer : Telephone Est Electronics Factory (Zhong Shan)
Product Name : Wireless Charging Selfie Grip with 5000mAh Portable Power
Test Model No. : 2IHPP2058
Reference Model No. : 2IHPP2058G4G7
Trade Mark : N/A
Rating(s) : USB C Input: DC 5V/2A, 9V/2A, 12V/1.5A
USB C Output: DC 5V/3A, 9V/2A, 12V/1.5A
Wireless Output: 5W, 7.5W (Max)
Total Output: 15W Max
Battery: 3.7V 5000mAh

Test Standard(s) : 47 CFR Part 15.209

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 above listed standard(s) 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:

Aug. 21, 2023

Date of Test:

Aug. 21 ~ 31, 2023

Prepared By:

Nian xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer:

Edward Pan

(Edward Pan)

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Sept. 06, 2023

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1. General Information

1.1. Client Information

Applicant	:	TELEPHONE EST (HK) CO., LTD
Address	:	Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
Manufacturer	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China
Factory	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Selfie Grip with 5000mAh Portable Power
Test Model No.	:	2IHPP2058
Reference Model No.	:	2IHPP2058G4G7 (Note: All samples are the same except the model number & color, so we prepare "2IHPP2058" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0dBi (Provided by customer)

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.

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF

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1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	AC charging+Wireless charging

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Radiated emissions (Below 30MHz)	3.53dB
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.	

1.6. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1	P
Emissions in frequency bands (below 30MHz)	Mode1	P
Emissions in frequency bands (30MHz - 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

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.

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.518128

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1.8. 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.

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1.9. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Emissions in frequency bands (below 30MHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2022-10-23	2023-10-22
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Emissions in frequency bands (30MHz - 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	2022-10-16	2025-10-15
2	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
3	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
4	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

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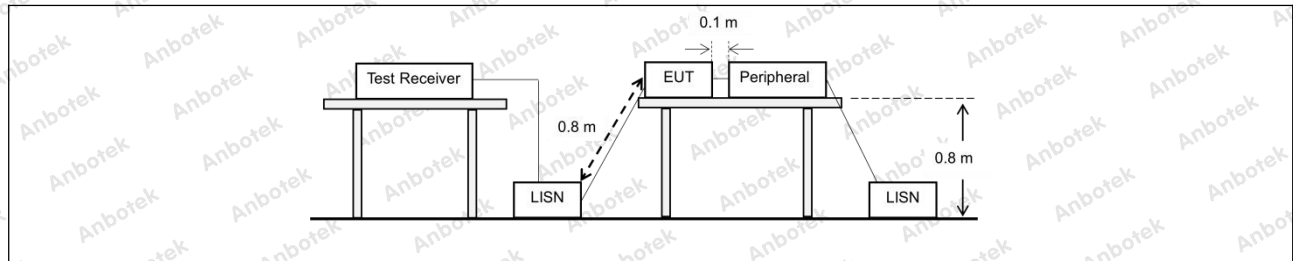
2. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

2.1. EUT Operation

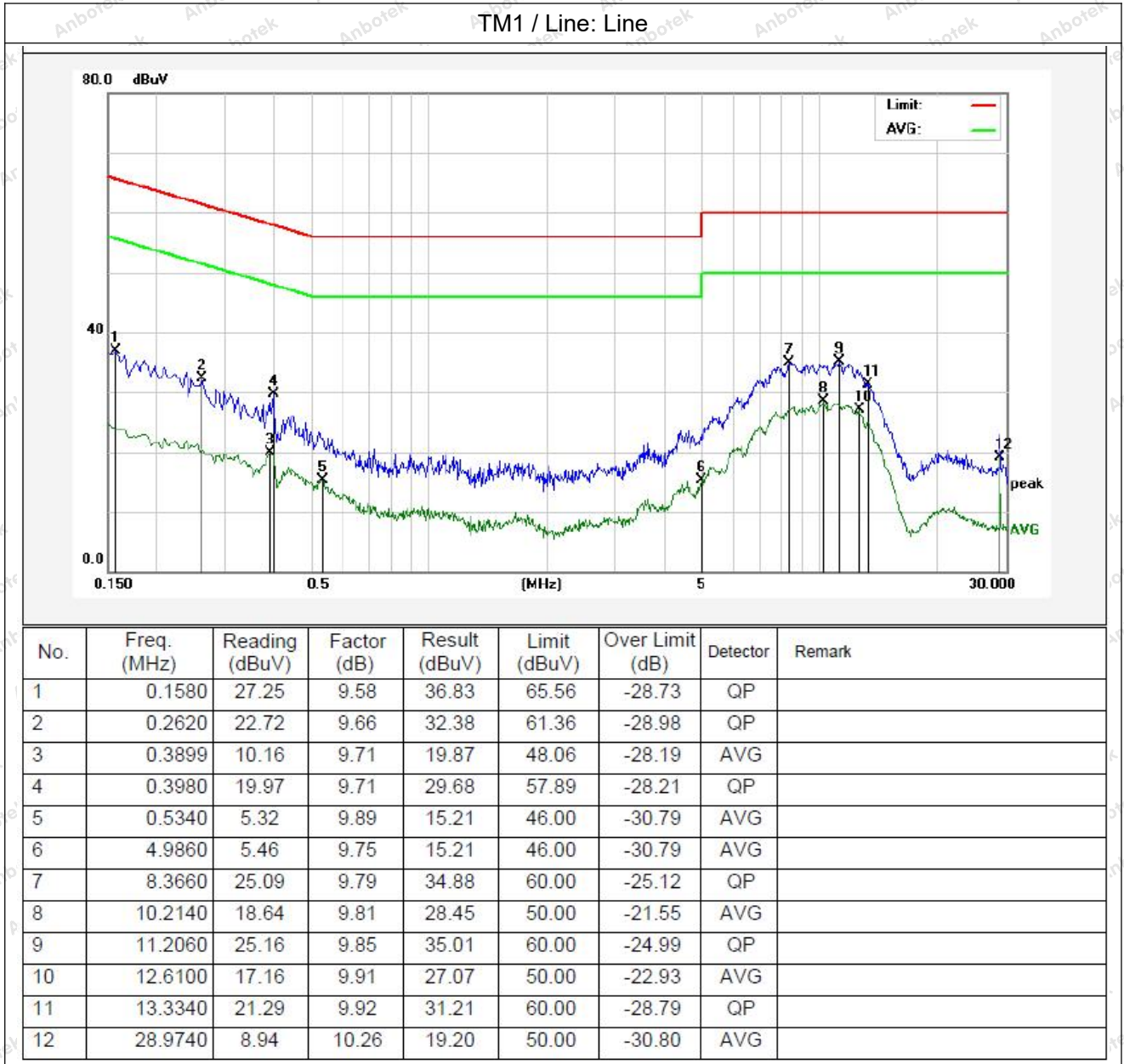
Operating Environment:	
Test mode:	1: AC charging+Wireless charging

2.2. Test Setup



2.3. Test Data

Temperature:	23.4 °C	Humidity:	51 %	Atmospheric Pressure:	102 kPa
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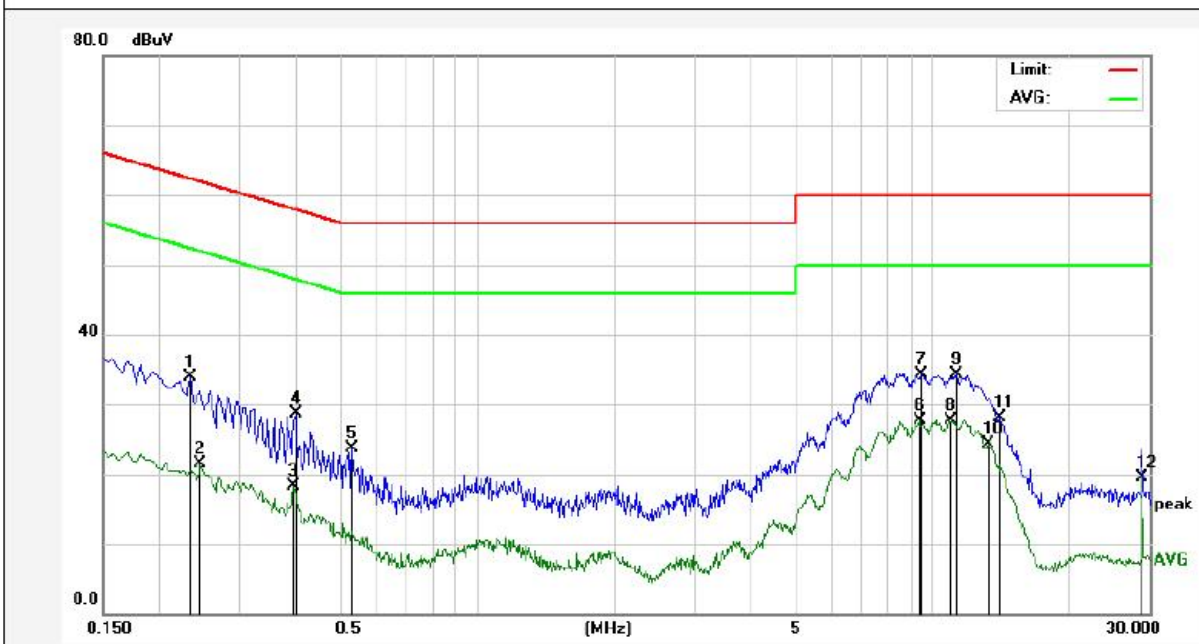


Temperature: 23.4 °C

Humidity: 51 %

Atmospheric Pressure: 102 kPa

TM1 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2340	24.23	9.63	33.86	62.30	-28.44	QP	
2	0.2460	11.79	9.64	21.43	51.89	-30.46	AVG	
3	0.3940	8.64	9.71	18.35	47.98	-29.63	AVG	
4	0.3980	19.02	9.71	28.73	57.89	-29.16	QP	
5	0.5299	13.73	9.89	23.62	56.00	-32.38	QP	
6	9.3860	17.93	9.80	27.73	50.00	-22.27	AVG	
7	9.4780	24.60	9.80	34.40	60.00	-25.60	QP	
8	10.9300	17.88	9.84	27.72	50.00	-22.28	AVG	
9	11.2900	24.36	9.85	34.21	60.00	-25.79	QP	
10	13.2780	14.29	9.92	24.21	50.00	-25.79	AVG	
11	14.0260	18.24	9.95	28.19	60.00	-31.81	QP	
12	28.9740	9.34	10.26	19.60	50.00	-30.40	AVG	

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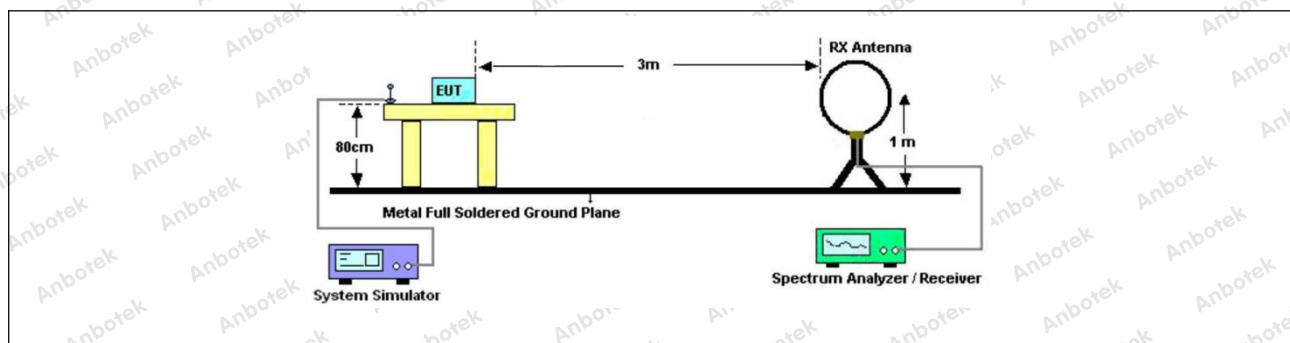
3. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

3.1. EUT Operation

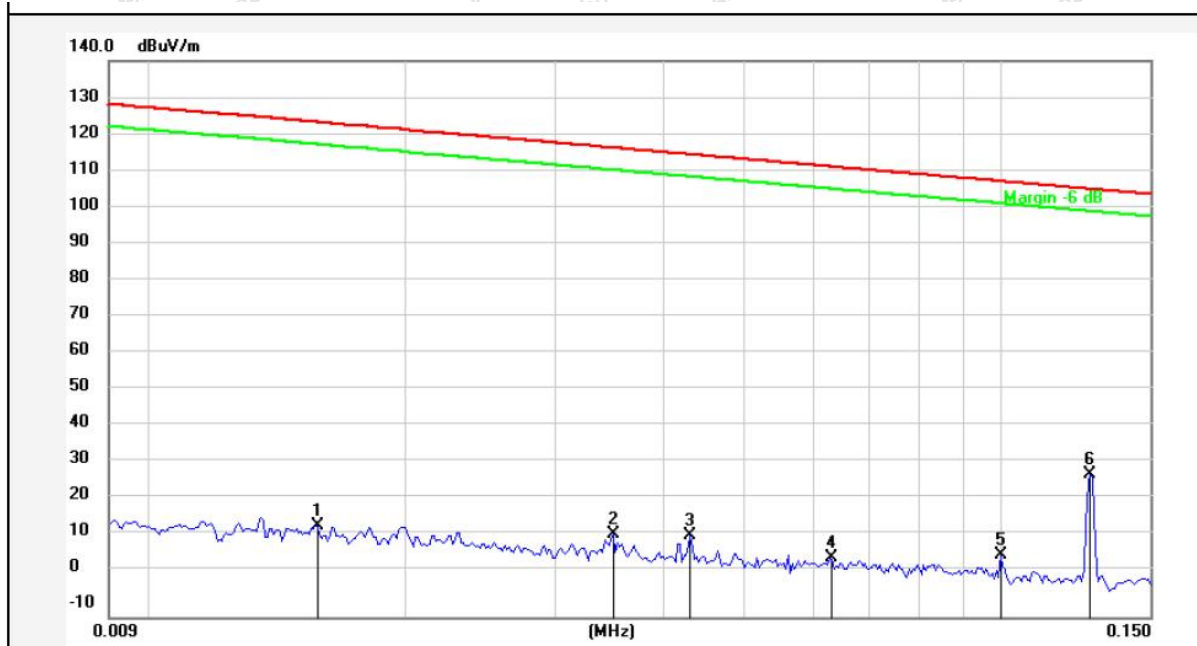
Operating Environment:	
Test mode:	1: AC charging+Wireless charging

3.2. Test Setup



3.3. Test Data

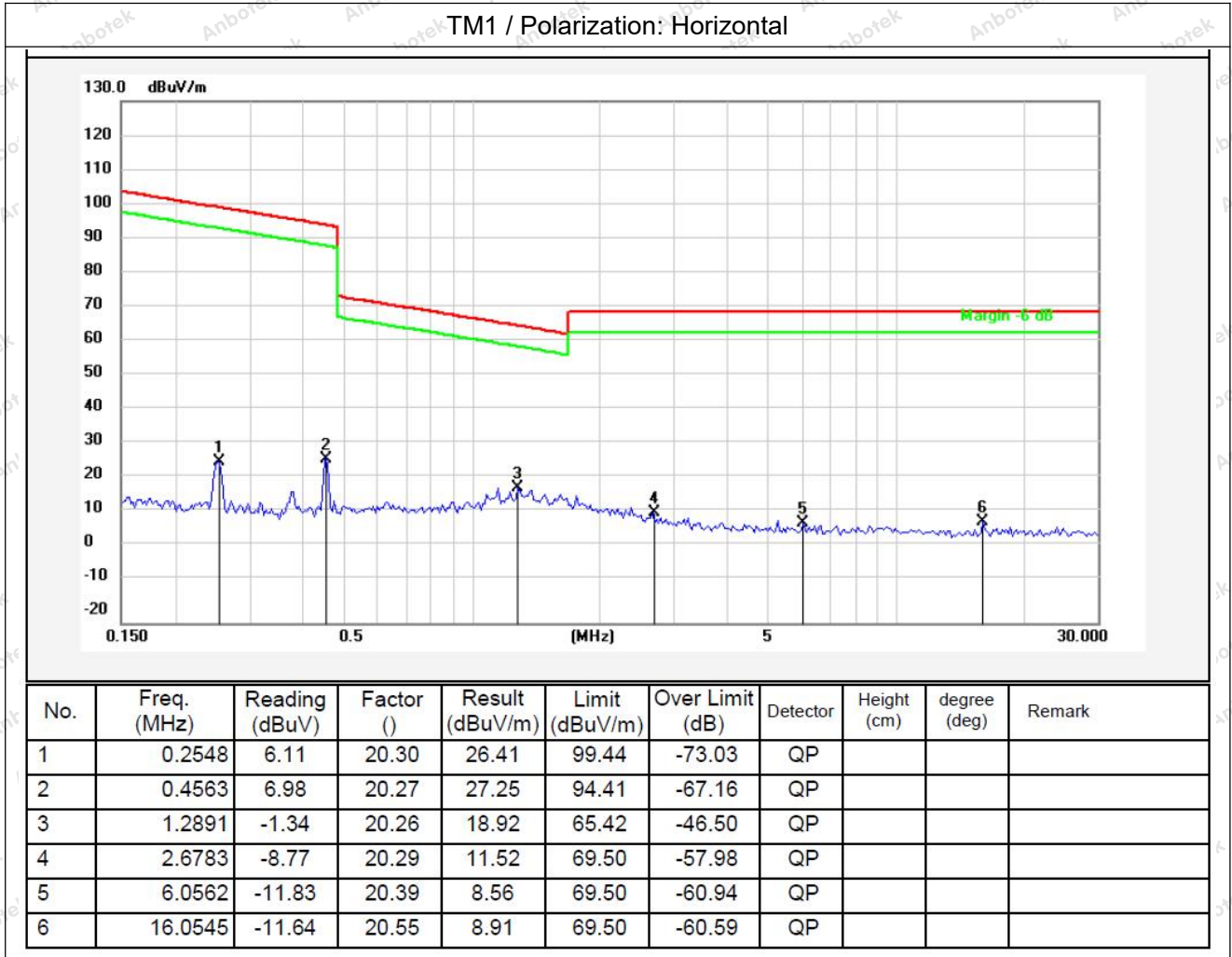
Temperature:	23.5 °C	Humidity:	45 %	Atmospheric Pressure:	102 kPa
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No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0158	-5.73	20.30	14.57	123.45	-108.88	QP			
2	0.0350	-8.02	20.49	12.47	116.58	-104.11	QP			
3	0.0432	-8.51	20.45	11.94	114.76	-102.82	QP			
4	0.0631	-14.31	20.38	6.07	111.49	-105.42	QP			
5	0.1000	-13.76	20.29	6.53	107.52	-100.99	QP			
6	0.1274	8.16	20.34	28.50	105.43	-76.93	QP			



Temperature:	23.5 °C	Humidity:	45 %	Atmospheric Pressure:	102 kPa
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4. Emissions in frequency bands (30MHz - 1GHz)

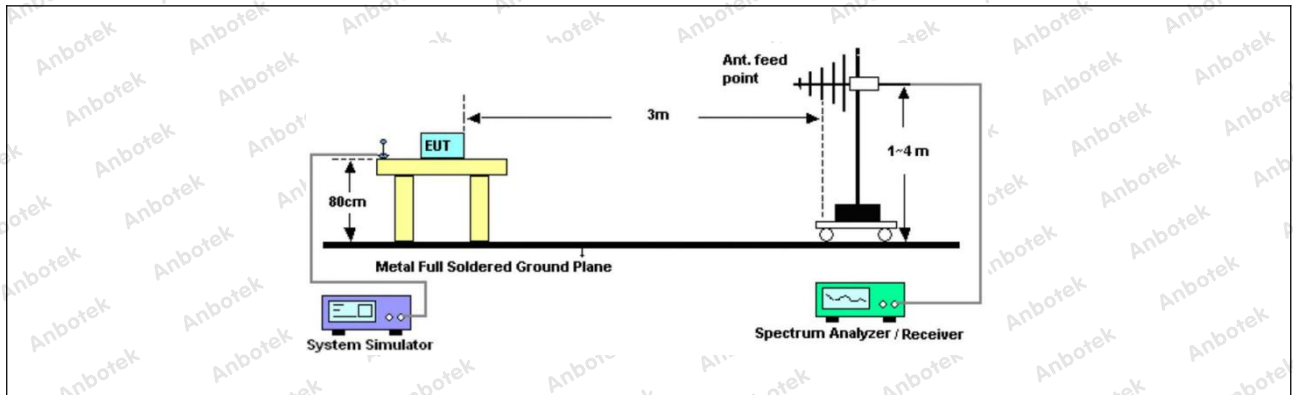
Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p>			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.1. EUT Operation

Operating Environment:	
Test mode:	1: AC charging+Wireless charging



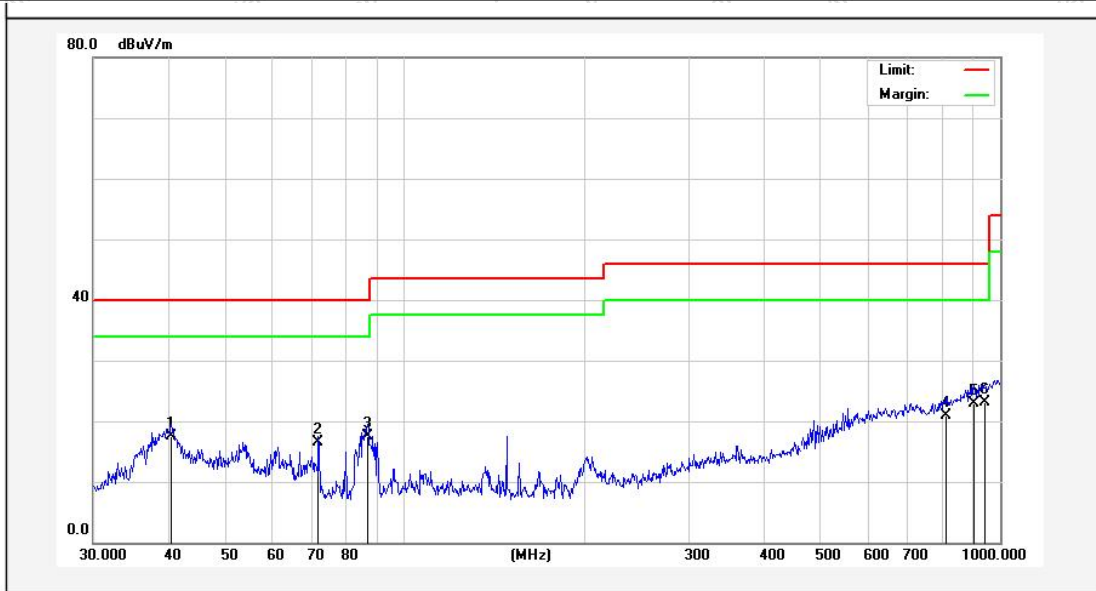
4.2. Test Setup



4.3. Test Data

Temperature:	24.1 °C	Humidity:	53.4 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Horizontal

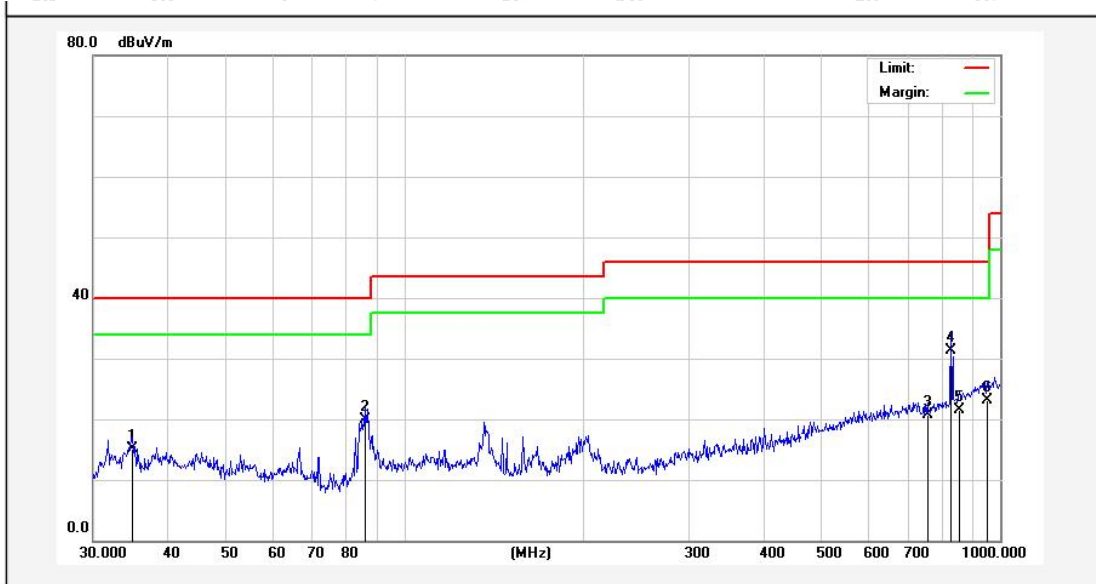


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.5591	32.03	-14.62	17.41	40.00	-22.59	QP			
2	71.8319	36.47	-19.94	16.53	40.00	-23.47	QP			
3	86.8067	35.62	-18.19	17.43	40.00	-22.57	QP			
4	813.1115	28.93	-8.06	20.87	46.00	-25.13	QP			
5	903.3093	29.12	-6.19	22.93	46.00	-23.07	QP			
6	942.1304	28.89	-5.74	23.15	46.00	-22.85	QP			



Temperature:	24.1 °C	Humidity:	53.4 %	Atmospheric Pressure:	102 kPa
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TM1 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.8823	33.62	-18.50	15.12	40.00	-24.88	QP			
2	85.8984	42.03	-22.03	20.00	40.00	-20.00	QP			
3	755.3873	29.90	-9.13	20.77	46.00	-25.23	QP			
4	827.4934	39.18	-7.83	31.35	46.00	-14.65	QP			
5	854.0247	28.89	-7.39	21.50	46.00	-24.50	QP			
6	952.0937	28.63	-5.61	23.02	46.00	-22.98	QP			

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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----

