

FCC TEST REPORT

For

Shenzhen Huaqi Technology Co., Ltd.

Wireless Car Charging Holder

Model No.: HQ-C

Prepared For : Shenzhen Huaqi Technology Co., Ltd.
Address : Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street,
Longhua District, Shenzhen, China

Prepared By : Shenzhen Anbotech Compliance Laboratory Limited
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Date of Receipt : Aug. 27, 2018
Date of Test : Aug. 27~ Sept. 10, 2018
Date of Report : Sept. 10, 2018

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TEST REPORT

Applicant : Shenzhen Huaqi Technology Co., Ltd.

Manufacturer : Shenzhen Huaqi Technology Co., Ltd.

Product Name : Wireless Car Charging Holder

Model No. : HQ-C

Trade Mark :

Rating(s) : Input: DC 5V, 2A/ DC 9V, 2A
Output: 10W

Test Standard(s) : FCC Part15 Subpart C 2017, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2013

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 Test

Aug. 27~ Sept. 10, 2018

Prepared by

(Engineer / Tangcy Tang)

Reviewer



(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Huaqi Technology Co., Ltd.
Address	:	Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer	:	Shenzhen Huaqi Technology Co., Ltd.
Address	:	Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street, Longhua District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Car Charging Holder	
Model No.	:	HQ-C	
Trade Mark	:		
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)	
Product Description	:	Operation Frequency:	111-205KHz
		Number of Channel:	20 Channels
		Modulation Type:	FSK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi
Remark: 1) 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

Adapter	:	Model: A2013 Input: 100-240V 50-60Hz 0.7A Output: 3.6-6.5V--- 3A/ 6.5-9V--- 2A/ 9-12V--- 1.5A
	:	
Mobile Phone	:	Samsung

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	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

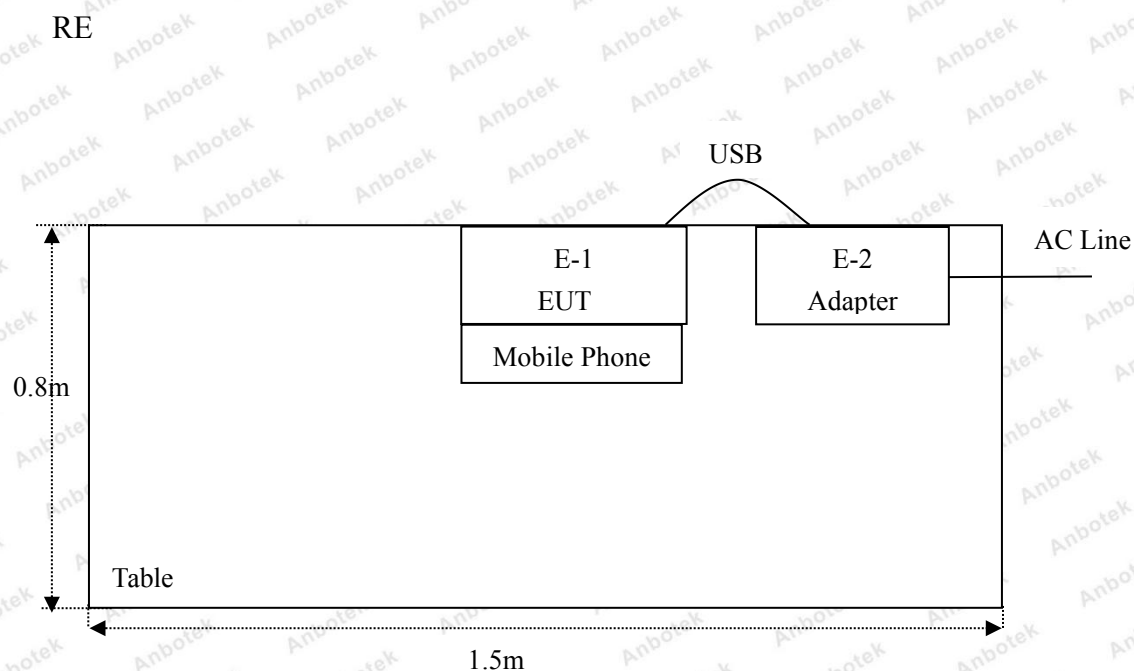
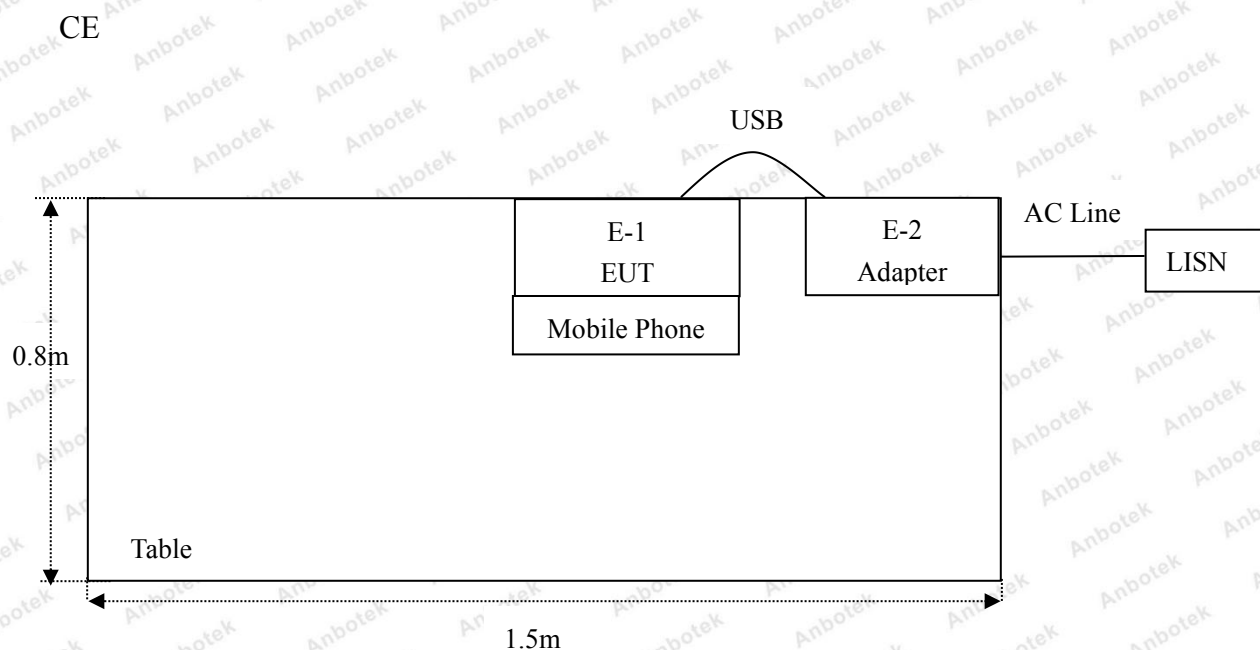
For Conducted Emission	
Final Test Mode	Description
Mode 4	Keeping TX+Charging mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	0.111	6	0.135	11	0.160	16	0.185
2	0.115	7	0.140	12	0.165	17	0.190
3	0.120	8	0.145	13	0.170	18	0.195
4	0.125	9	0.150	14	0.175	19	0.200
5	0.130	10	0.155	15	0.180	20	0.205

1.6. Description Of Test Setup



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
9.	Inductive loop coil Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
10.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
19.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
20.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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

2. Summary of Test Results

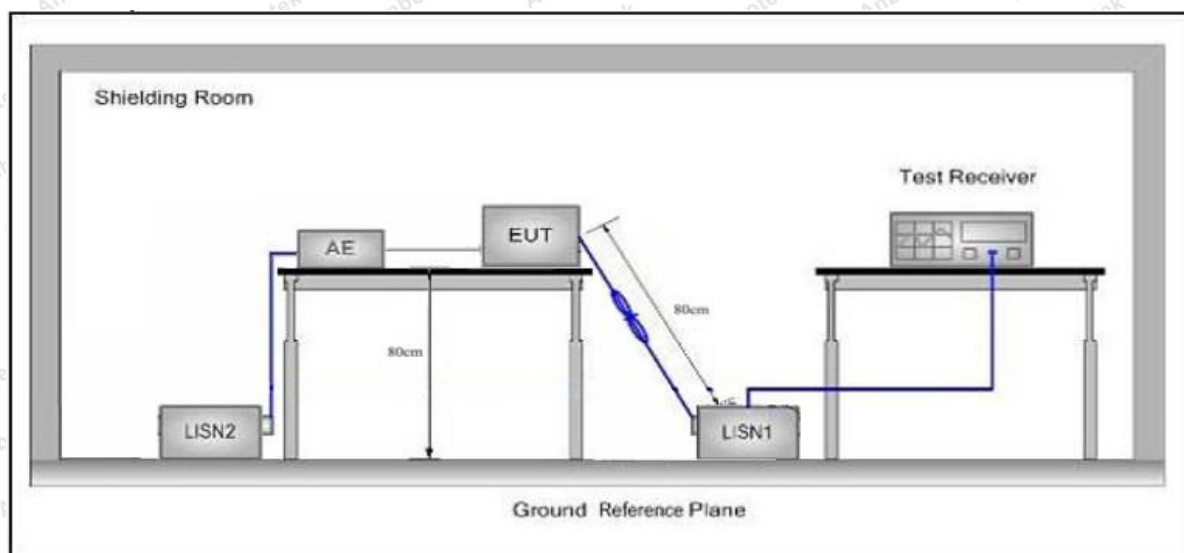
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
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 C63.10-2013 on Conducted Emission Measurement.

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

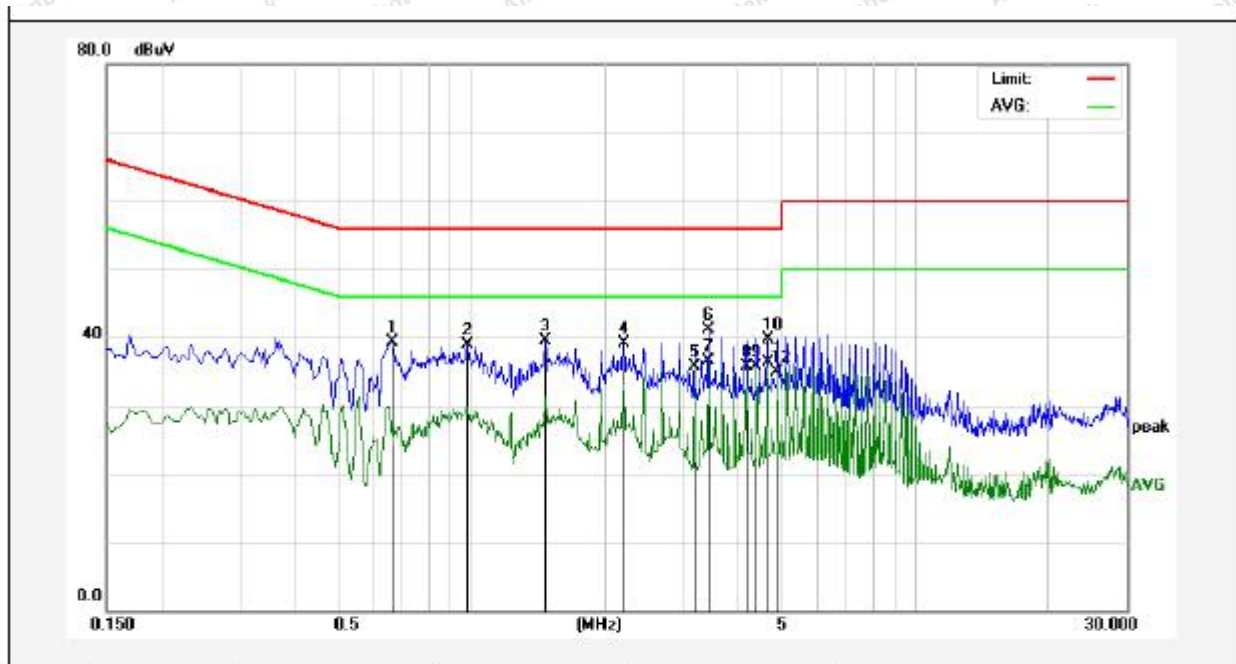
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

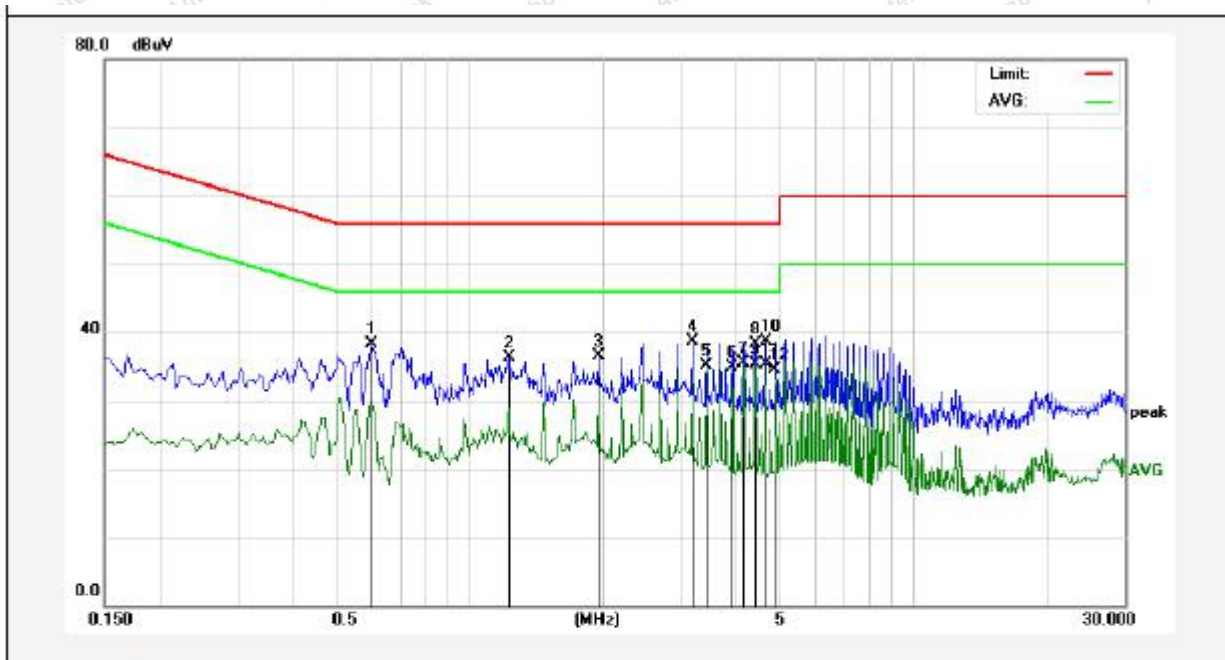
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.6620	19.25	20.03	39.28	56.00	-16.72	QP	
2	0.9820	18.80	20.12	38.92	56.00	-17.08	QP	
3	1.4700	19.30	20.13	39.43	56.00	-16.57	QP	
4	2.2020	19.06	20.14	39.20	56.00	-16.80	QP	
5	3.1820	15.55	20.16	35.71	46.00	-10.29	AVG	
6	3.4260	20.86	20.17	41.03	56.00	-14.97	QP	
7	3.4260	16.26	20.17	36.43	46.00	-9.57	AVG	
8	4.1579	15.56	20.18	35.74	46.00	-10.26	AVG	
9	4.4060	15.59	20.19	35.78	46.00	-10.22	AVG	
10	4.6500	19.47	20.20	39.67	56.00	-16.33	QP	
11	4.6500	16.01	20.20	36.21	46.00	-9.79	AVG	
12	4.8980	14.75	20.20	34.95	46.00	-11.05	AVG	

Conducted Emission Test Data

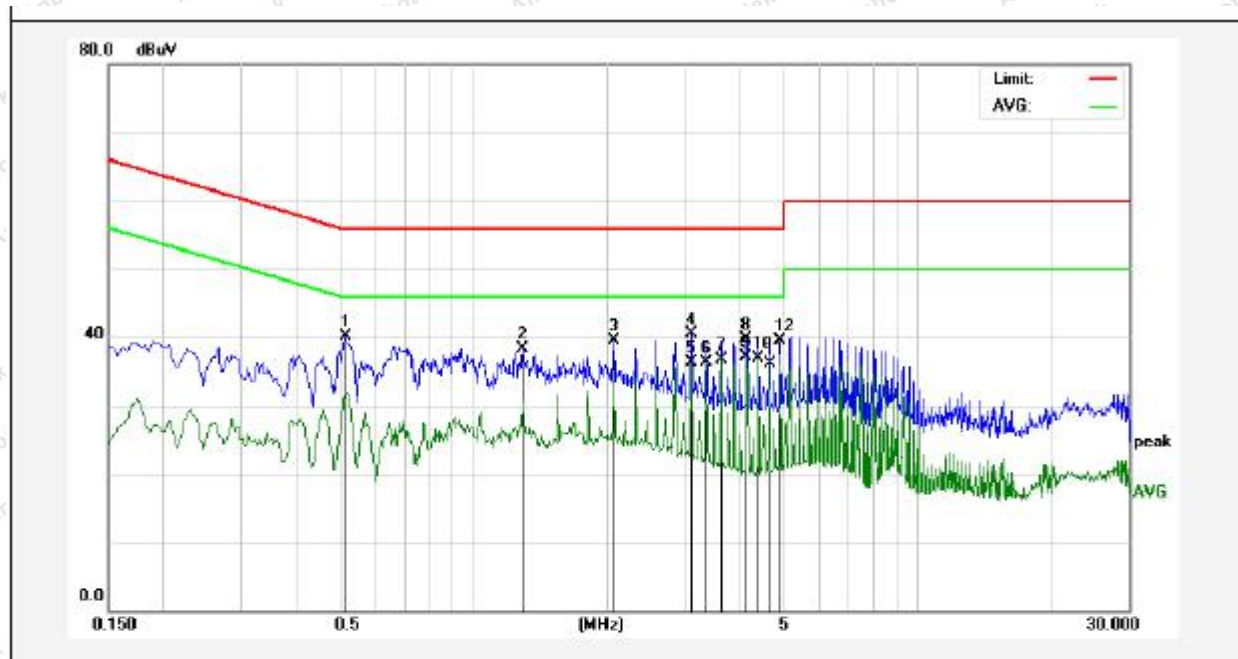
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.6020	18.35	20.01	38.36	56.00	-17.64	QP	
2	1.2260	16.21	20.12	36.33	56.00	-19.67	QP	
3	1.9580	16.40	20.14	36.54	56.00	-19.46	QP	
4	3.1860	18.59	20.16	38.75	56.00	-17.25	QP	
5	3.4260	14.85	20.17	35.02	46.00	-10.98	AVG	
6	3.9180	14.63	20.18	34.81	46.00	-11.19	AVG	
7	4.1540	15.23	20.18	35.41	46.00	-10.59	AVG	
8	4.4100	18.19	20.19	38.38	56.00	-17.62	QP	
9	4.4100	15.18	20.19	35.37	46.00	-10.63	AVG	
10	4.6540	18.60	20.20	38.80	56.00	-17.20	QP	
11	4.6540	15.02	20.20	35.22	46.00	-10.78	AVG	
12	4.8980	14.36	20.20	34.56	46.00	-11.44	AVG	

Conducted Emission Test Data

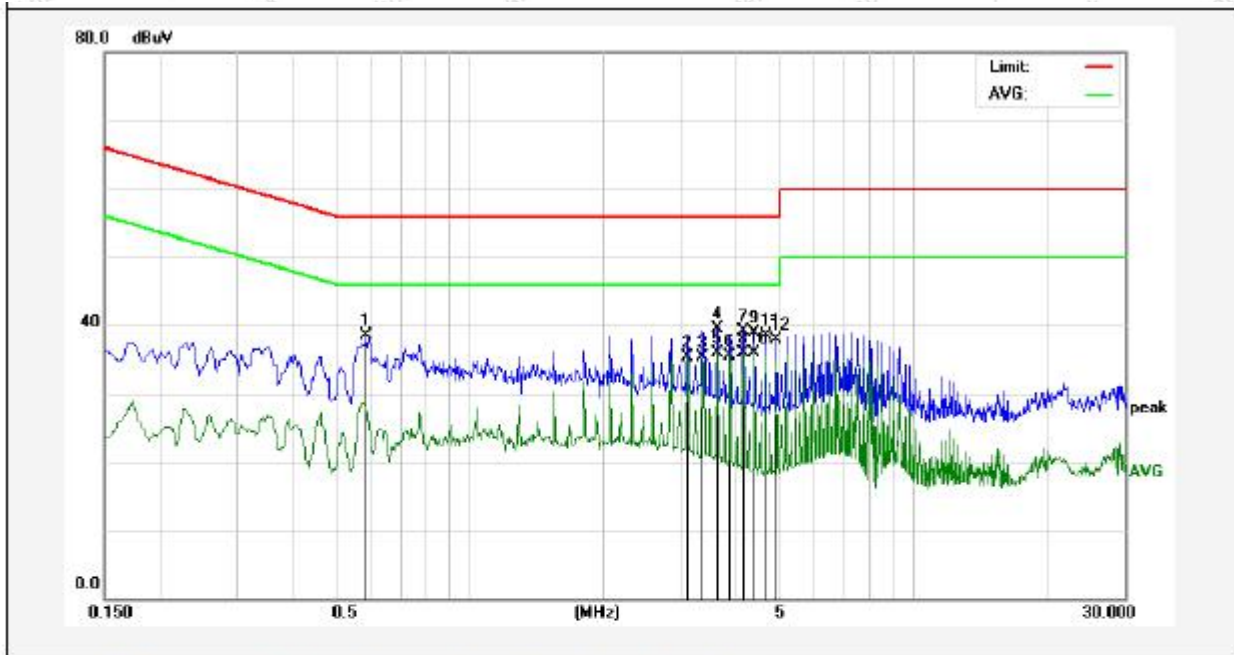
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5140	20.12	19.98	40.10	56.00	-15.90	QP	
2	1.2940	18.24	20.13	38.37	56.00	-17.63	QP	
3	2.0700	19.44	20.14	39.58	56.00	-16.42	QP	
4	3.1020	20.44	20.16	40.60	56.00	-15.40	QP	
5	3.1020	16.17	20.16	36.33	46.00	-9.67	AVG	
6	3.3580	16.11	20.17	36.28	46.00	-9.72	AVG	
7	3.6180	16.62	20.17	36.79	46.00	-9.21	AVG	
8	4.1340	19.55	20.18	39.73	56.00	-16.27	QP	
9	4.1340	16.86	20.18	37.04	46.00	-8.96	AVG	
10	4.3940	16.62	20.19	36.81	46.00	-9.19	AVG	
11	4.6540	15.88	20.20	36.08	46.00	-9.92	AVG	
12	4.9100	19.31	20.20	39.51	56.00	-16.49	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5860	18.41	20.01	38.42	56.00	-17.58	QP	
2	3.1060	15.14	20.16	35.30	46.00	-10.70	AVG	
3	3.3620	15.22	20.17	35.39	46.00	-10.61	AVG	
4	3.6220	19.26	20.17	39.43	56.00	-16.57	QP	
5	3.6220	15.70	20.17	35.87	46.00	-10.13	AVG	
6	3.8780	15.28	20.18	35.46	46.00	-10.54	AVG	
7	4.1380	18.83	20.18	39.01	56.00	-16.99	QP	
8	4.1380	15.76	20.18	35.94	46.00	-10.06	AVG	
9	4.3980	18.77	20.19	38.96	56.00	-17.04	QP	
10	4.3980	15.81	20.19	36.00	46.00	-10.00	AVG	
11	4.6579	18.37	20.20	38.57	56.00	-17.43	QP	
12	4.9180	17.73	20.20	37.93	56.00	-18.07	QP	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

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

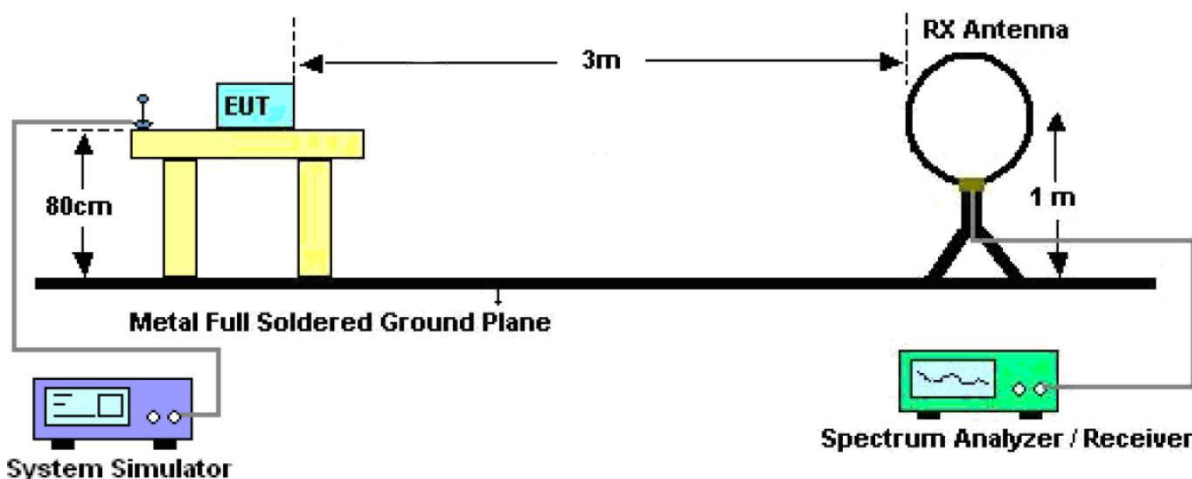


Figure 1. Below 30MHz

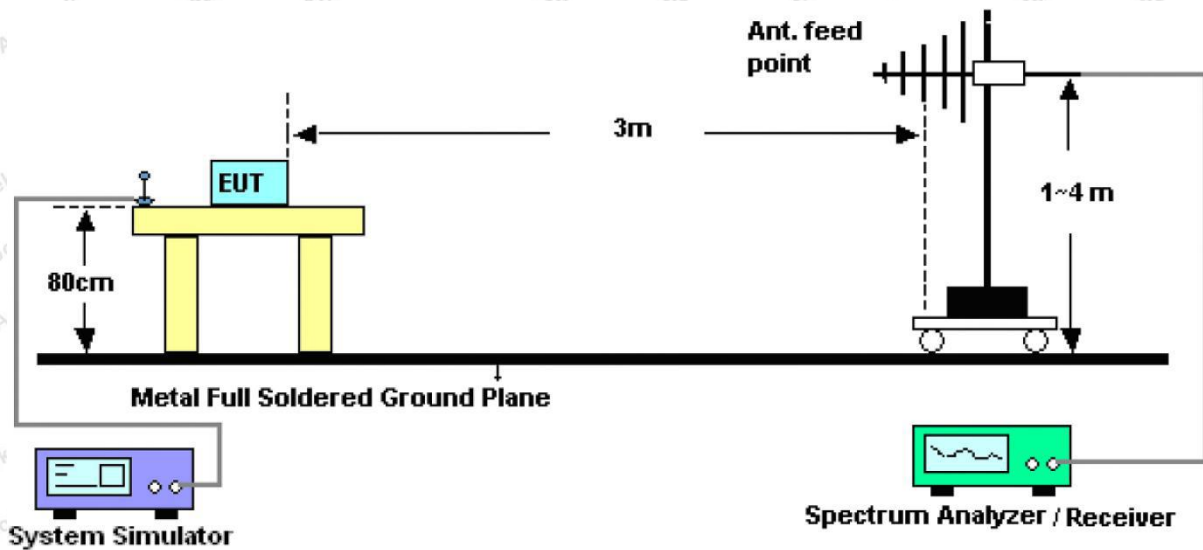


Figure 2. 30MHz to 1GHz

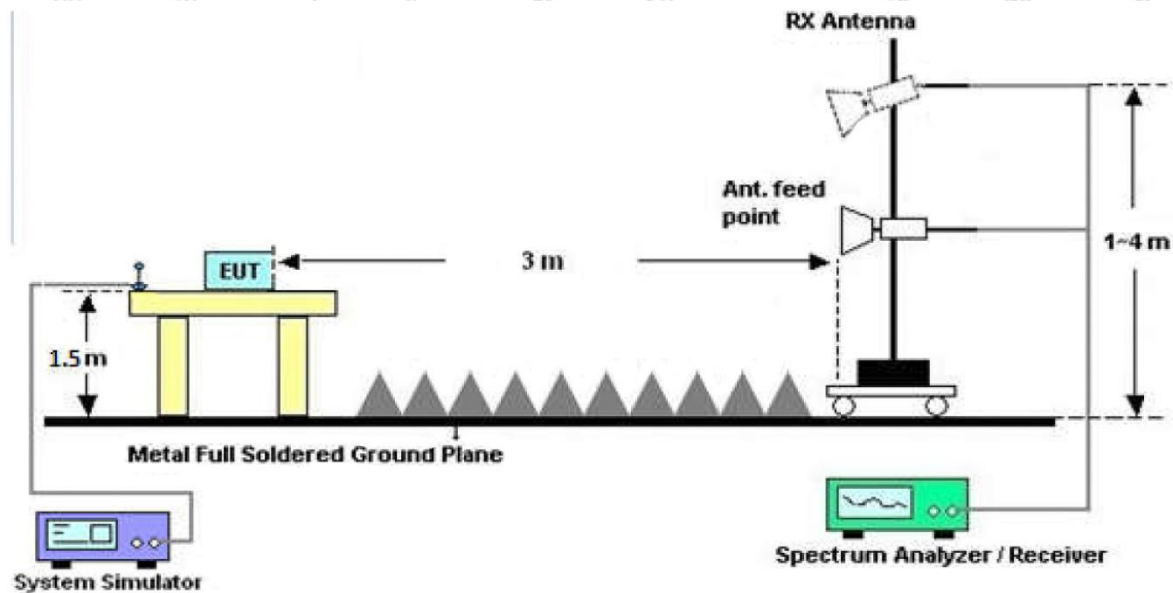


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m 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

Test Results

(Between 9KHz – 30MHz)

Job No.: SZAWW180827003-01

Standard: FCC PART15 C_3m

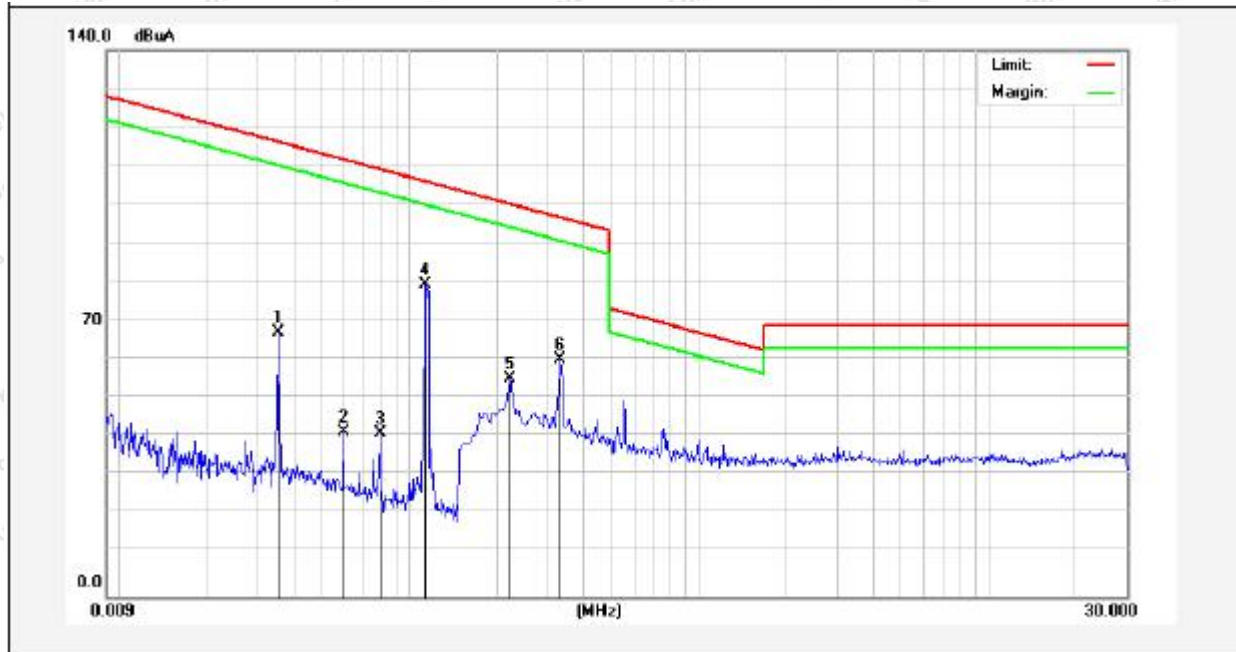
Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: Mode 4

Distance: 3m

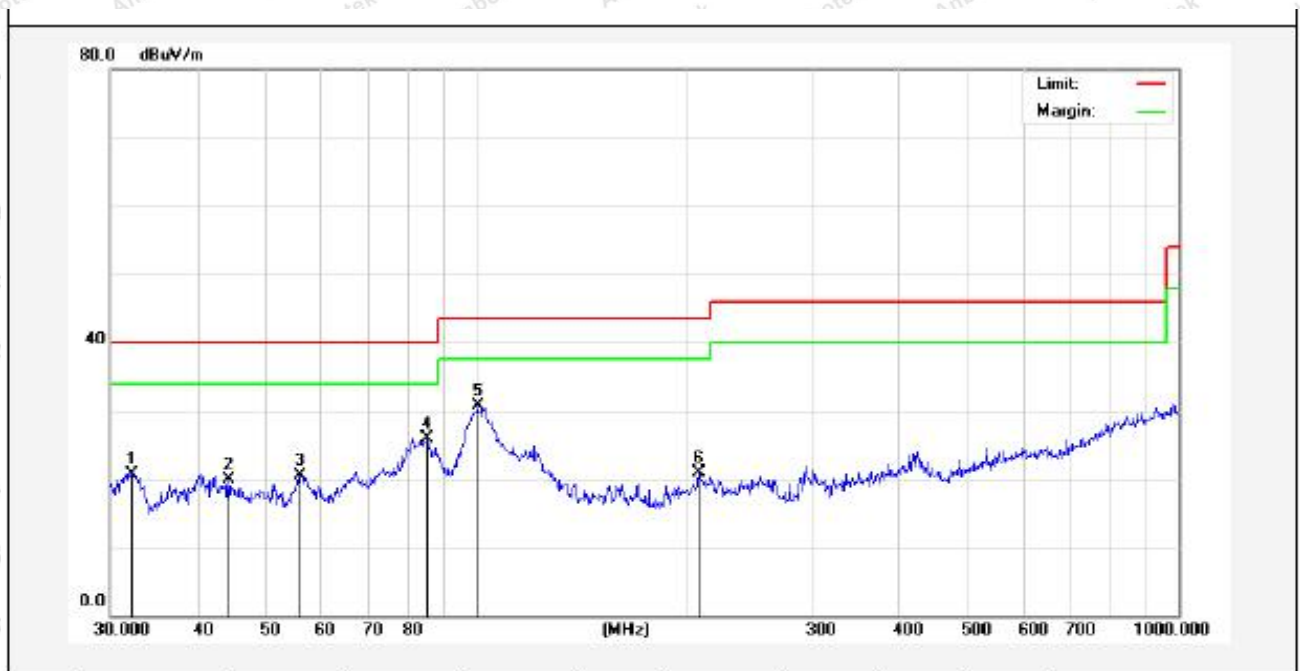


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0353	54.57	19.28	2.53	0	76.38	136.52	-60.14	Peak	136
0.0353	45.48	19.28	2.53	0	67.29	116.52	-49.23	AV	136
0.0590	32.52	19.28	2.53	0	54.33	131.89	-77.56	Peak	57
0.0590	20.27	19.28	2.53	0	42.08	111.89	-69.81	AV	57
0.0784	31.78	19.30	2.54	0	53.62	128.66	-75.04	Peak	229
0.0784	20.69	19.30	2.54	0	42.53	108.66	-66.13	AV	229
0.1128	69.65	19.38	2.55	0	91.58	126.04	-34.46	Peak	315
0.1128	58.18	19.38	2.55	0	80.11	106.04	-25.93	AV	315
0.2216	42.27	19.53	2.59	0	64.39	120.47	-56.08	Peak	247
0.2216	32.76	19.53	2.59	0	54.88	100.47	-45.59	AV	247
0.3331	51.76	20.34	2.59	0	74.69	116.39	-41.70	Peak	89
0.3331	38.32	20.34	2.59	0	61.25	96.39	-35.14	AV	89

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.

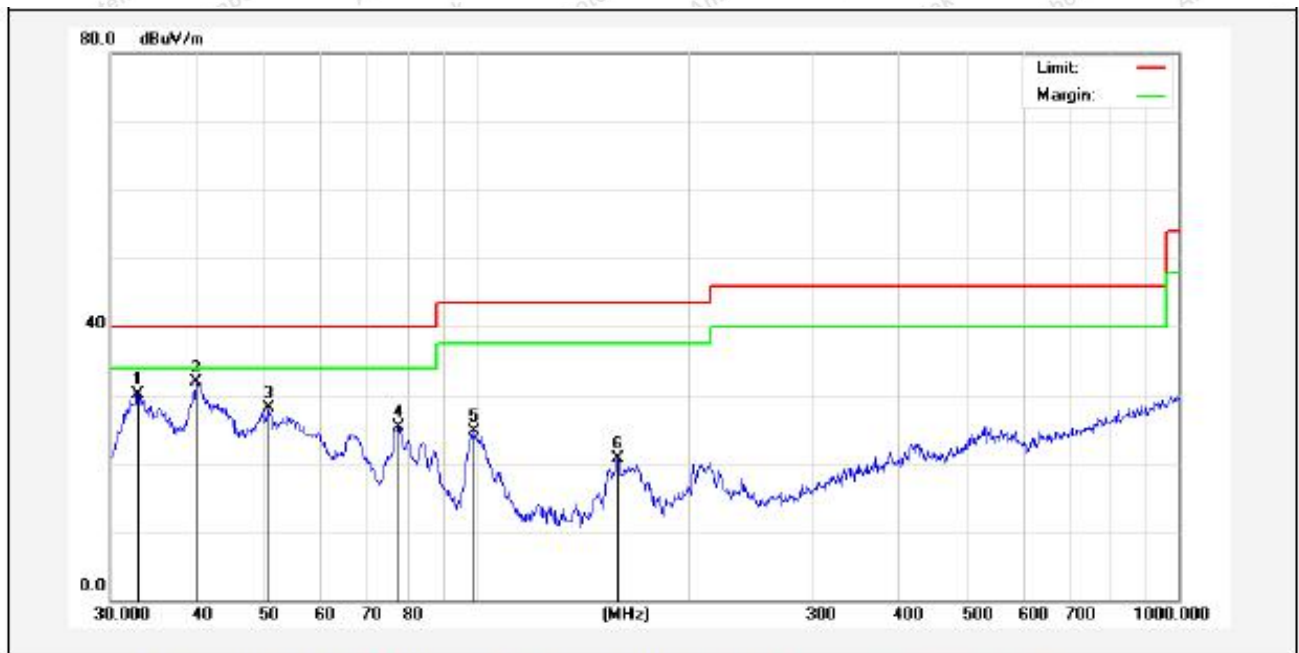
(Between 30MHz -1000 MHz)

Job No.:	SZAWW180827003-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 4	Distance:	3m



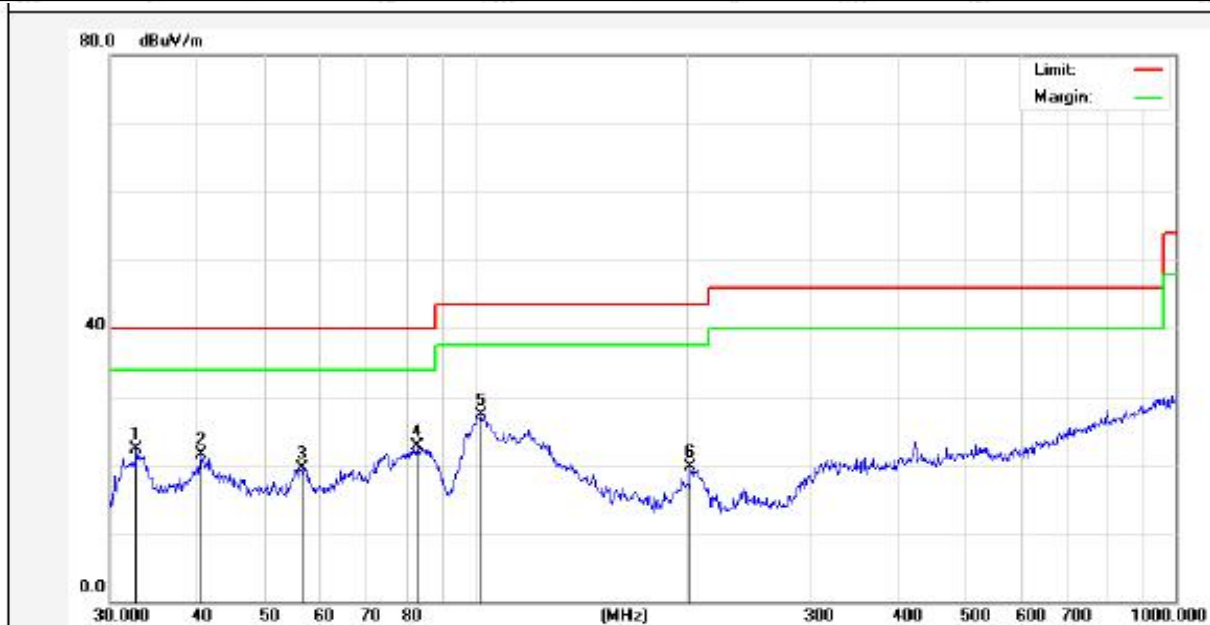
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.2925	38.68	-17.88	20.80	40.00	-19.20	QP	300	0	
2	44.2752	35.02	-15.20	19.82	40.00	-20.18	QP	300	57	
3	56.0007	37.27	-16.79	20.48	40.00	-19.52	QP	300	144	
4	84.9995	46.86	-20.95	25.91	40.00	-14.09	QP	300	246	
5	100.2286	51.47	-20.77	30.70	43.50	-12.80	QP	300	320	
6	207.1226	39.90	-19.02	20.88	43.50	-22.62	QP	300	360	

Job No.:	SZAWW180827003-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 4	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.8637	46.82	-16.72	30.10	40.00	-9.90	QP	300	0	
2	39.7146	45.45	-13.52	31.93	40.00	-8.07	QP	300	54	
3	50.4089	43.63	-15.59	28.04	40.00	-11.96	QP	300	114	
4	77.3212	45.53	-20.22	25.31	40.00	-14.69	QP	300	242	
5	99.1797	39.59	-14.84	24.75	43.50	-18.75	QP	300	263	
6	158.6677	37.67	-16.92	20.75	43.50	-22.75	QP	300	360	

Job No.: SZAWW180827003-01 **Polarization:** Horizontal
Standard: FCC PART15 C_3m **Power Source:** AC 240V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 24.3(C)/55%RH
Test Mode: Mode 4 **Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.7486	40.04	-17.75	22.29	40.00	-17.71	QP	300	0	
2	40.5591	36.07	-14.47	21.60	40.00	-18.40	QP	300	37	
3	56.3948	36.37	-16.80	19.57	40.00	-20.43	QP	300	141	
4	82.6482	44.56	-21.81	22.75	40.00	-17.25	QP	300	201	
5	101.6443	48.10	-20.74	27.36	43.50	-16.14	QP	300	236	
6	202.8104	38.63	-18.93	19.70	43.50	-23.80	QP	300	360	

Job No.:	SZAWW180827003-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 4	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	32.7486	50.69	-16.75	33.94	40.00	-6.06	QP	300	0	
2	33.7986	49.22	-16.44	32.78	40.00	-7.22	QP	300	36	
3	41.1319	46.14	-13.59	32.55	40.00	-7.45	QP	300	222	
4	67.4381	43.05	-18.81	24.24	40.00	-15.76	QP	300	240	
5	86.8067	45.57	-17.71	27.86	40.00	-12.14	QP	300	297	
6	100.5806	40.47	-14.76	25.71	43.50	-17.79	QP	300	360	

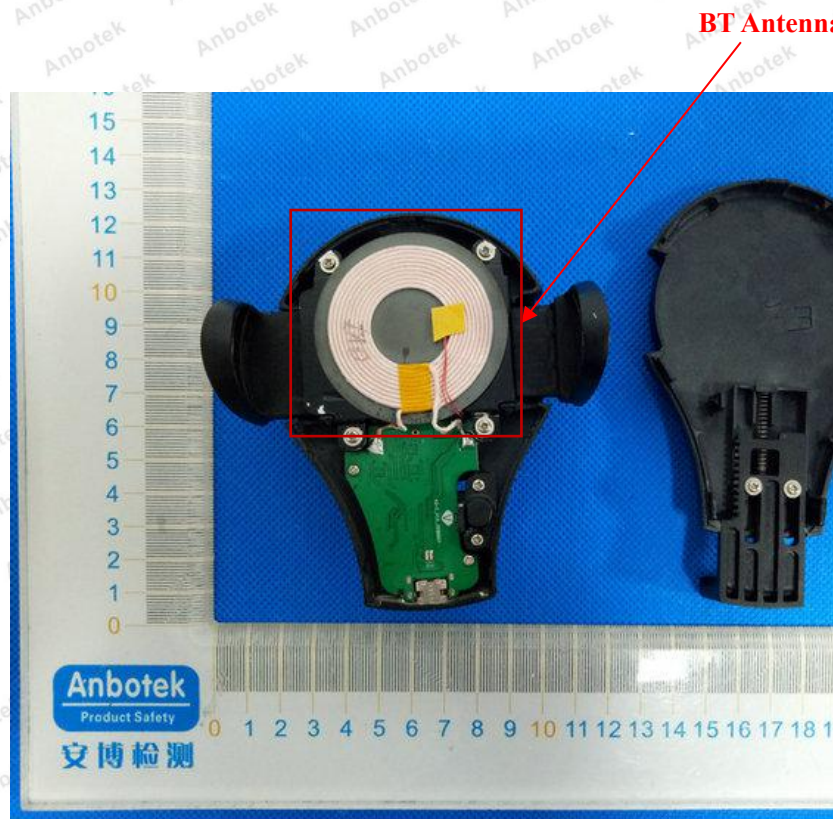
5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 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

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.

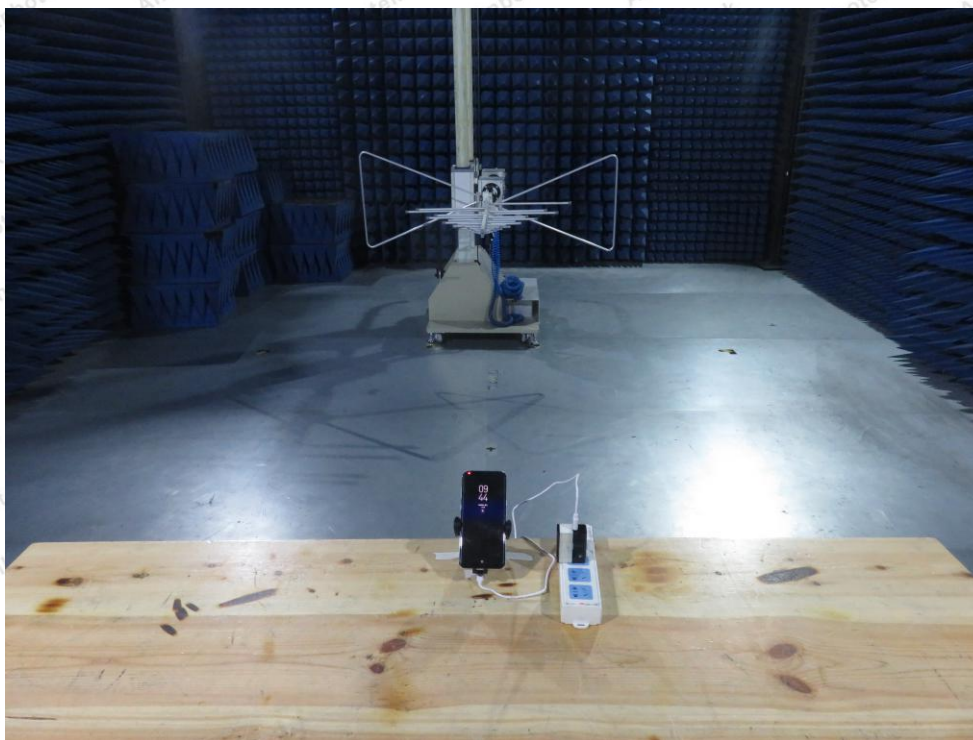


APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



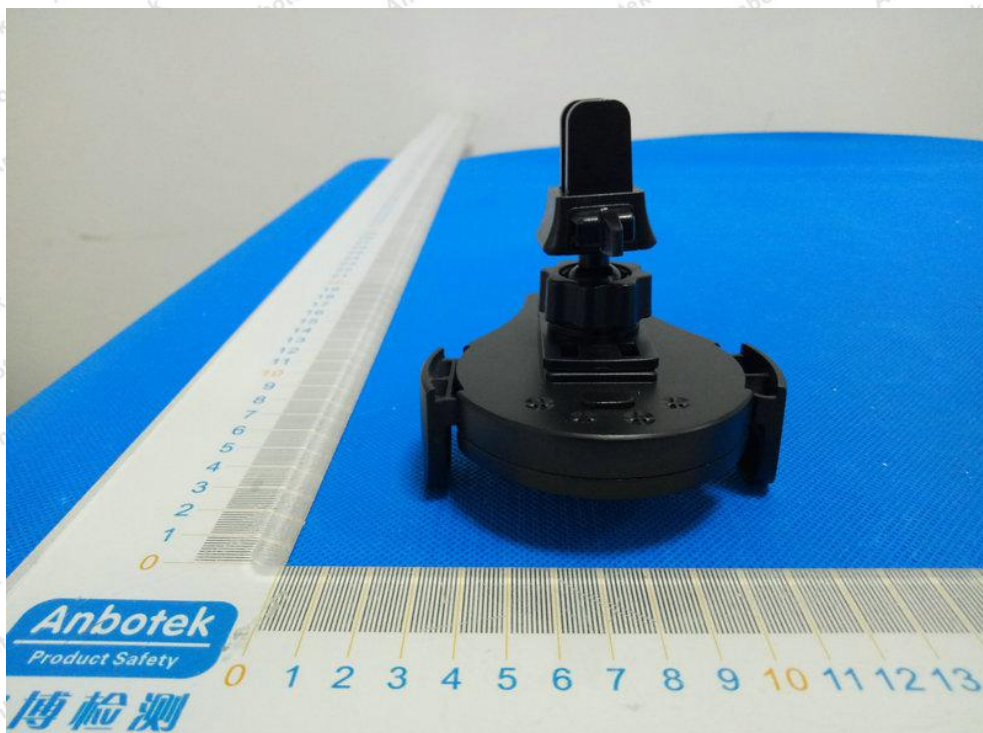
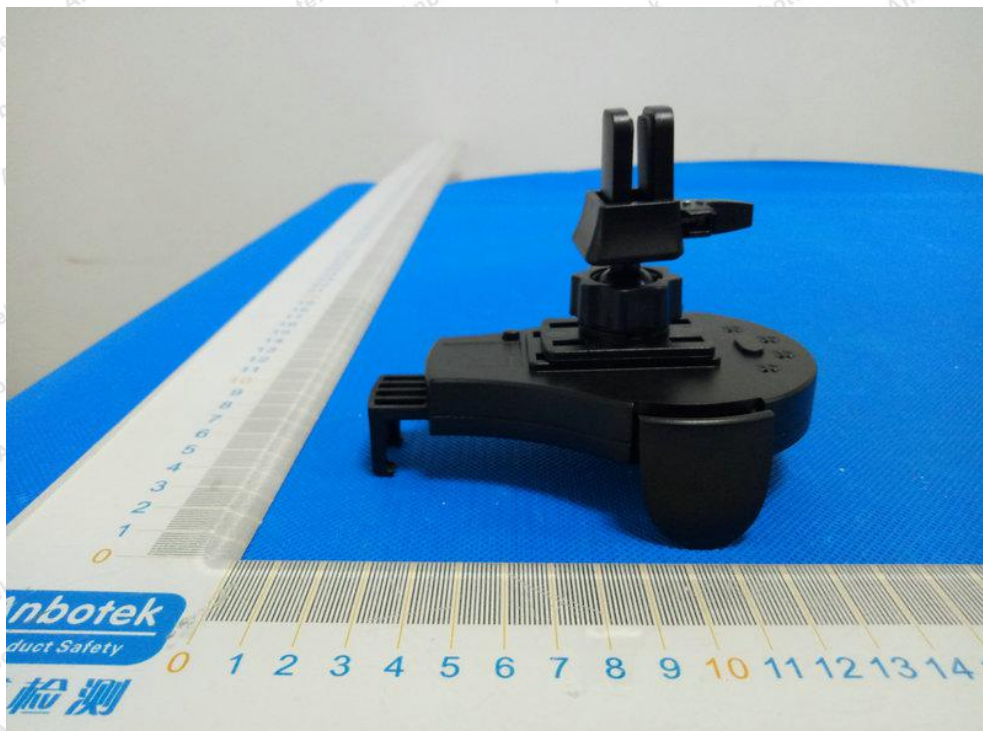
Photo of Radiation Emission Test

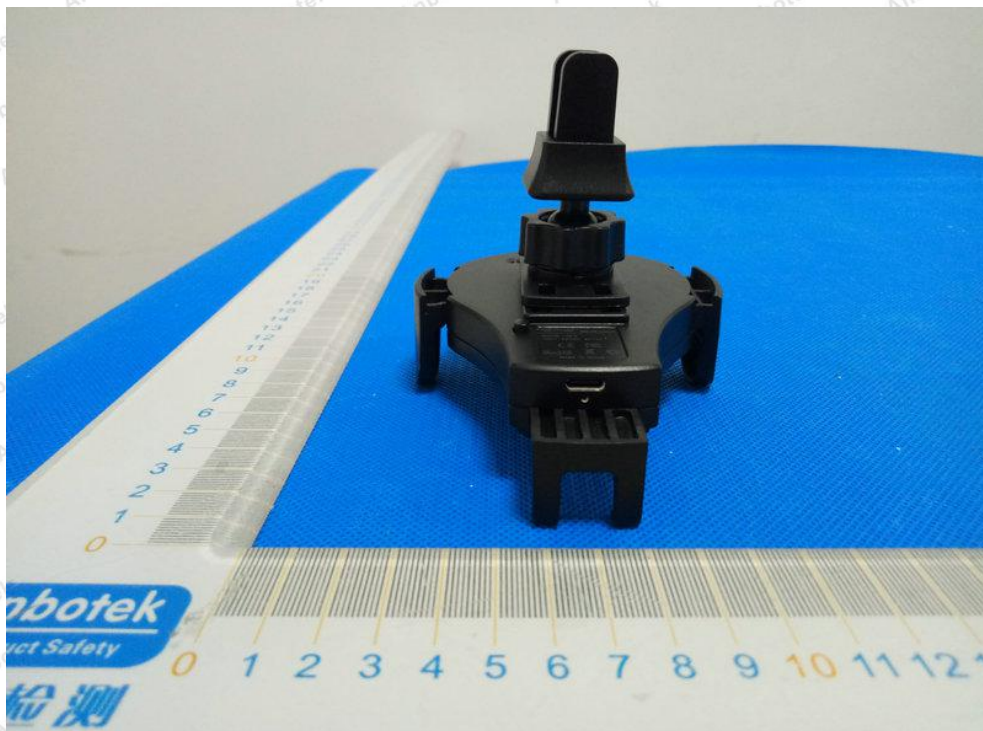




APPENDIX II -- EXTERNAL PHOTOGRAPH



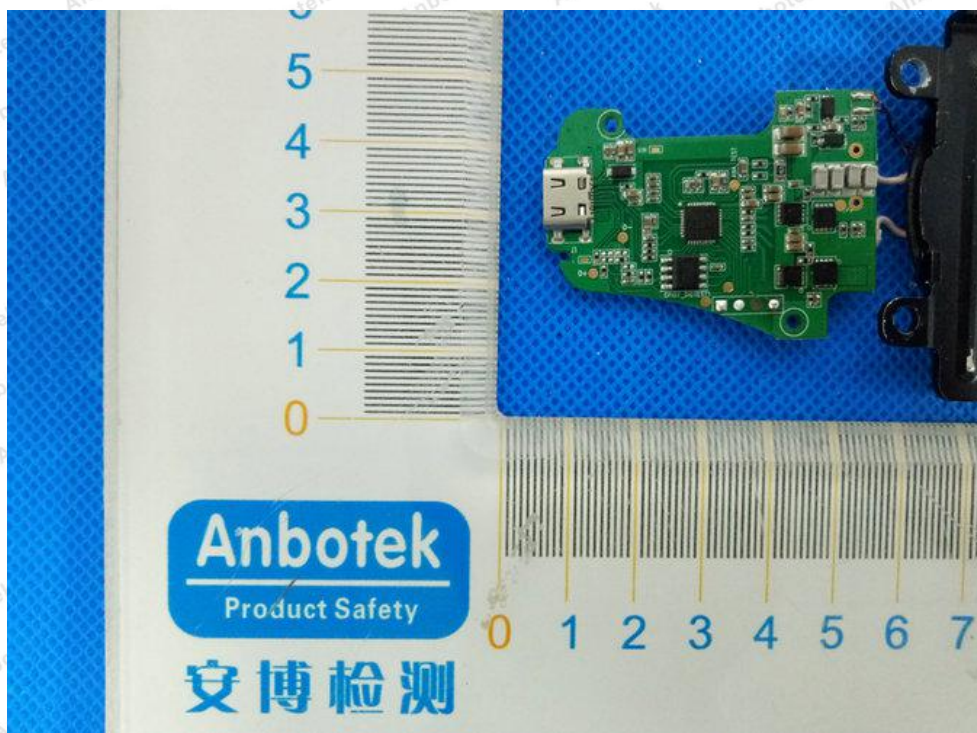




APPENDIX III -- INTERNAL PHOTOGRAPH







----- End of Report -----