

FCC TEST REPORT

For

Anker Innovations Limited

PowerWave 7.5 Car Mount

Model No.: A2551

Prepared For : Anker Innovations Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon,
Hong Kong

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Report Number : SZAWW180731003-01

Date of Receipt : Jul. 31, 2018

Date of Test : Jul. 31~Aug. 09, 2018

Date of Report : Aug. 09, 2018

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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : PowerWave 7.5 Car Mount
Model No. : A2551
Trade Mark : ANKER
Rating(s) : Input: DC 5V, 2A/ DC 9V, 2A/ DC 12V, 1.5A
Output: 5W/ 7.5W/ 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

Jul. 31~Aug. 09, 2018

Prepared by

(Engineer / Oliay Yang)

Reviewer

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	PowerWave 7.5 Car Mount
Model No.	:	A2551
Trade Mark	:	ANKER
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter
Test Sample No.	:	S1, S2
Product Description	Operation Frequency:	111-205KHz
	Number of Channel:	20 Channels
	Modulation Type:	MSK
	Antenna Type:	Loop 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 generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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

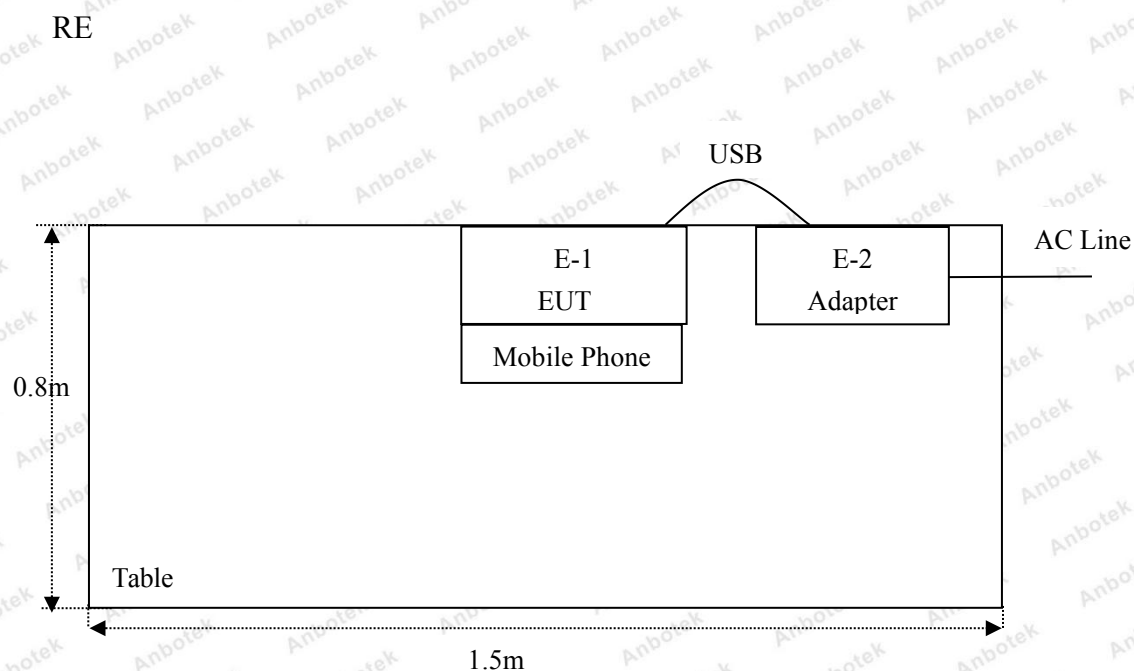
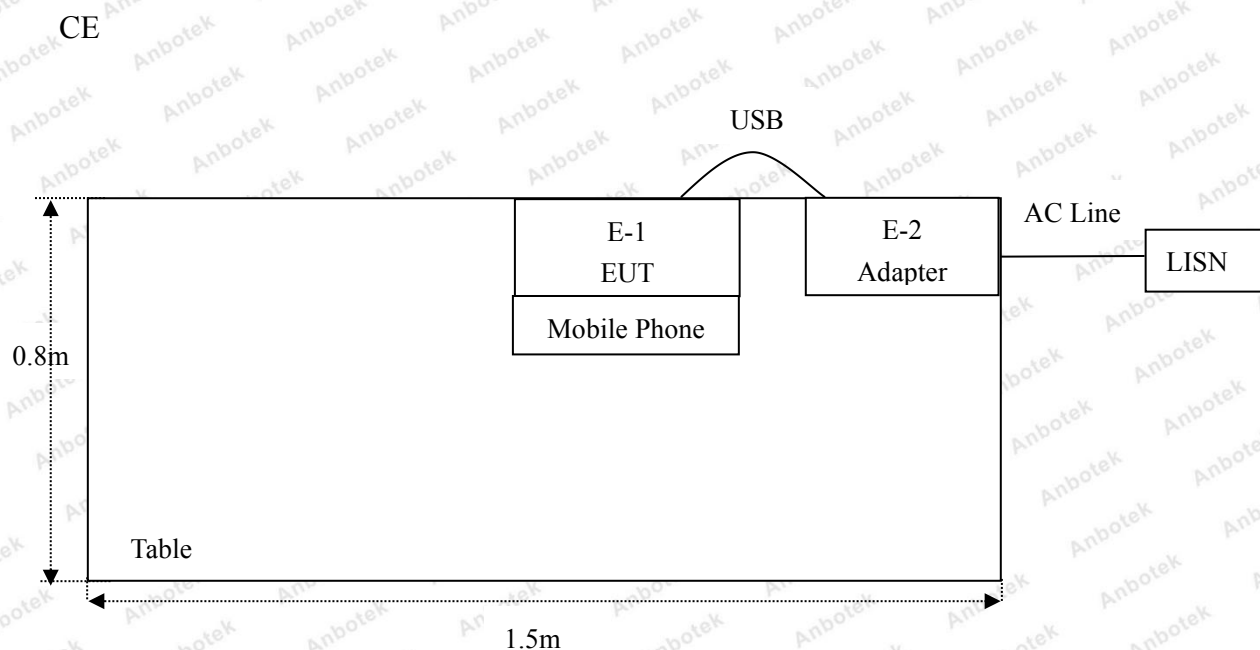
For Conducted Emission	
Final Test Mode	Description
Mode 4	Keeping TX+Charging mode

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.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech 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 Anbotech 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

All Emissions tests were performed at Shenzhen Anbotech Compliance Laboratory Limited. at 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

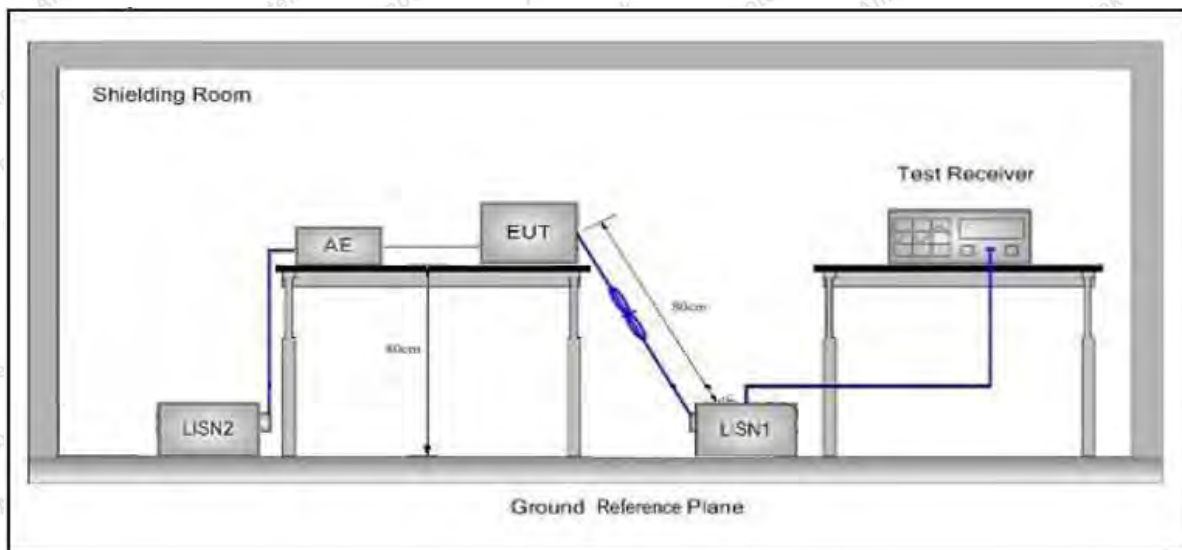
3. Conducted Emission Test

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.

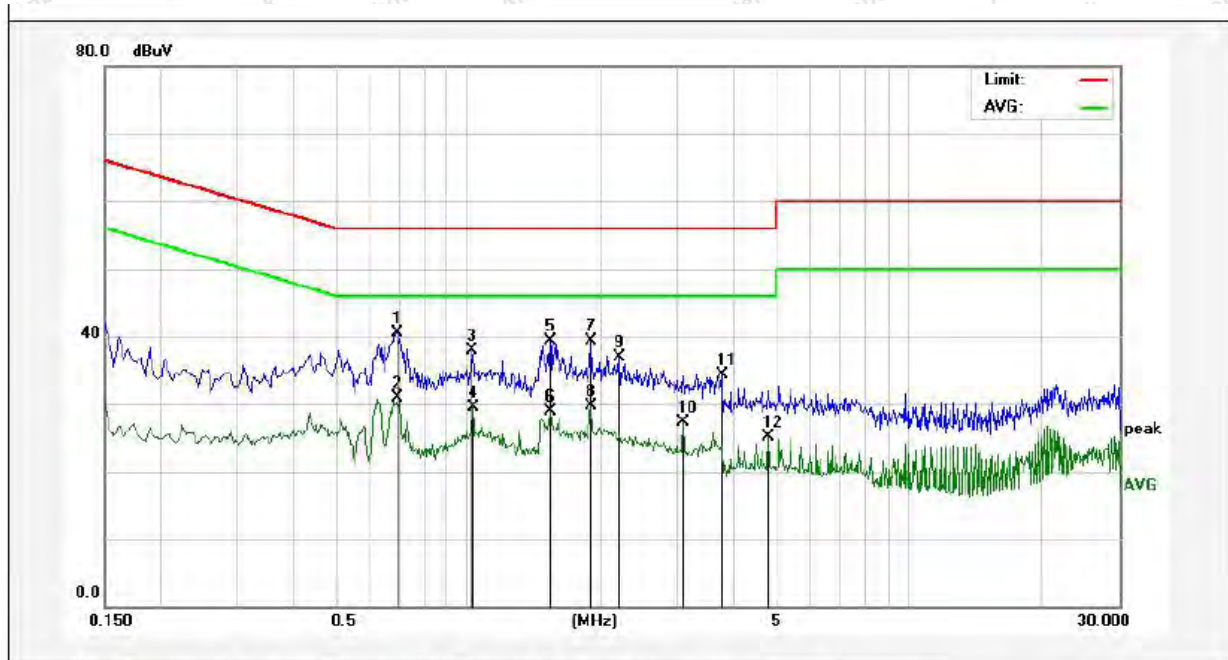
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

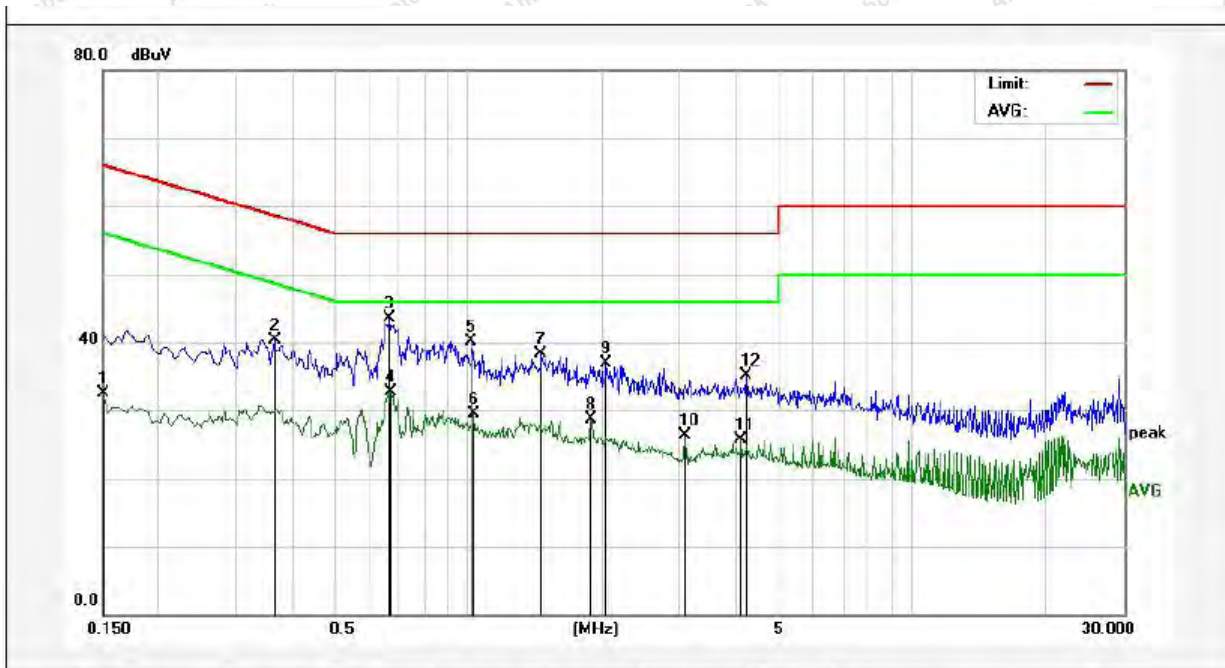
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.6900	20.52	20.04	40.56	56.00	-15.44	QP	
2	0.6900	10.86	20.04	30.90	46.00	-15.10	AVG	
3	1.0220	17.75	20.12	37.87	56.00	-18.13	QP	
4	1.0300	9.48	20.12	29.60	46.00	-16.40	AVG	
5	1.5420	19.11	20.13	39.24	56.00	-16.76	QP	
6	1.5420	8.73	20.13	28.86	46.00	-17.14	AVG	
7	1.8980	19.24	20.14	39.38	56.00	-16.62	QP	
8	1.8980	9.48	20.14	29.62	46.00	-16.38	AVG	
9	2.2020	16.72	20.14	36.86	56.00	-19.14	QP	
10	3.0860	7.18	20.16	27.34	46.00	-18.66	AVG	
11	3.7620	14.13	20.18	34.31	56.00	-21.69	QP	
12	4.8140	4.82	20.20	25.02	46.00	-20.98	AVG	

Conducted Emission Test Data

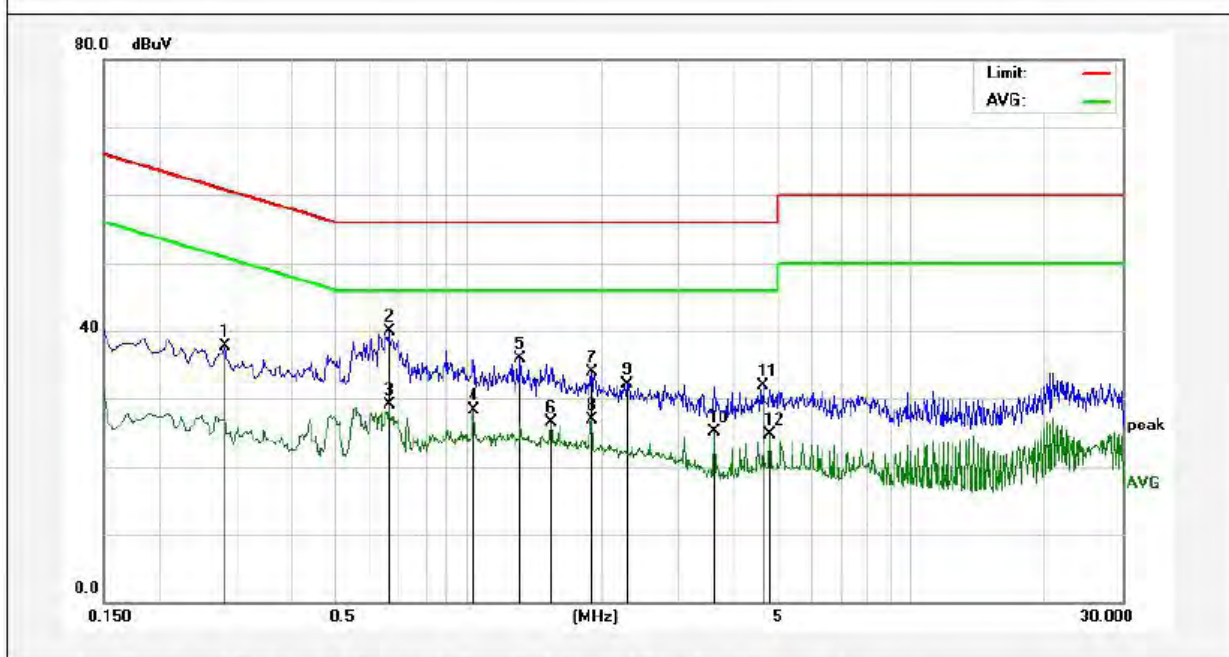
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	12.69	19.90	32.59	55.99	-23.40	AVG	
2	0.3660	20.46	19.92	40.38	58.59	-18.21	QP	
3	0.6660	23.38	20.03	43.41	56.00	-12.59	QP	
4	0.6700	12.72	20.03	32.75	46.00	-13.25	AVG	
5	1.0180	19.89	20.12	40.01	56.00	-15.99	QP	
6	1.0300	9.47	20.12	29.59	46.00	-16.41	AVG	
7	1.4620	18.26	20.13	38.39	56.00	-17.61	QP	
8	1.8940	8.64	20.14	28.78	46.00	-17.22	AVG	
9	2.0460	16.85	20.14	36.99	56.00	-19.01	QP	
10	3.0860	6.05	20.16	26.21	46.00	-19.79	AVG	
11	4.1140	5.57	20.18	25.75	46.00	-20.25	AVG	
12	4.2300	14.97	20.19	35.16	56.00	-20.84	QP	

Conducted Emission Test Data

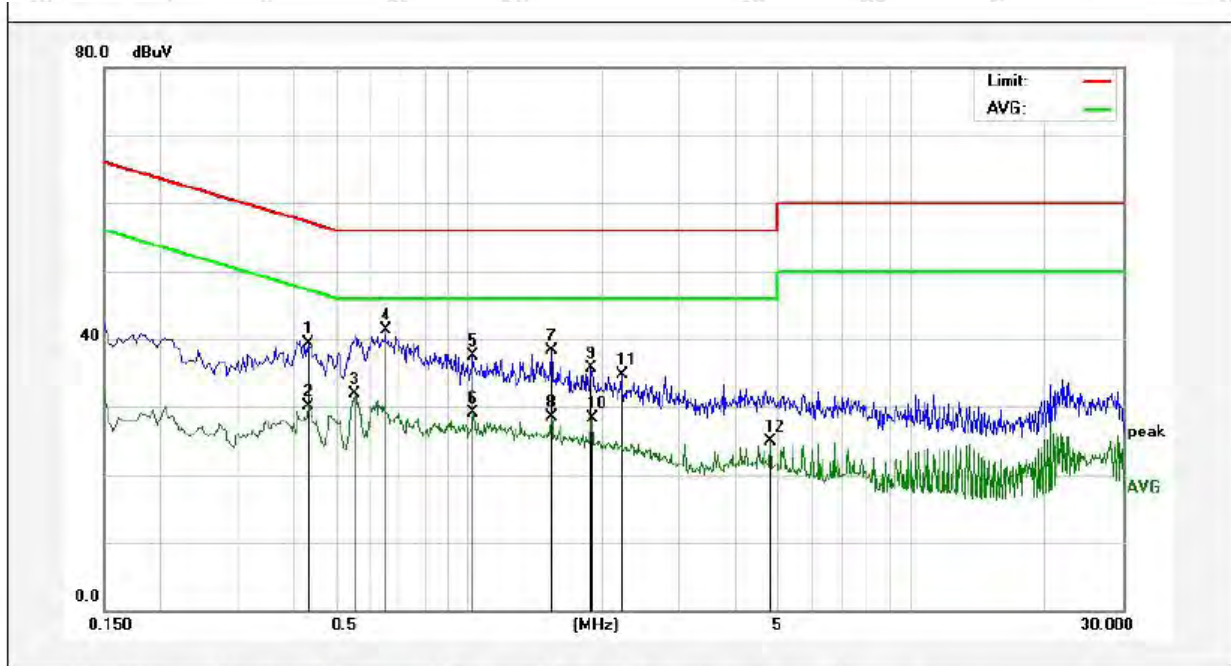
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2819	17.75	19.89	37.64	60.76	-23.12	QP	
2	0.6620	19.85	20.03	39.88	56.00	-16.12	QP	
3	0.6620	9.17	20.03	29.20	46.00	-16.80	AVG	
4	1.0300	8.23	20.12	28.35	46.00	-17.65	AVG	
5	1.3140	15.80	20.13	35.93	56.00	-20.07	QP	
6	1.5420	6.42	20.13	26.55	46.00	-19.45	AVG	
7	1.8980	13.80	20.14	33.94	56.00	-22.06	QP	
8	1.8980	6.81	20.14	26.95	46.00	-19.05	AVG	
9	2.2940	12.04	20.15	32.19	56.00	-23.81	QP	
10	3.5980	5.01	20.17	25.18	46.00	-20.82	AVG	
11	4.6260	11.64	20.20	31.84	56.00	-24.16	QP	
12	4.8140	4.56	20.20	24.76	46.00	-21.24	AVG	

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	0.4340	19.41	19.95	39.36	57.18	-17.82	QP	
2	0.4340	10.20	19.95	30.15	47.18	-17.03	AVG	
3	0.5540	11.97	20.00	31.97	46.00	-14.03	AVG	
4	0.6500	21.26	20.02	41.28	56.00	-14.72	QP	
5	1.0260	17.47	20.12	37.59	56.00	-18.41	QP	
6	1.0260	9.08	20.12	29.20	46.00	-16.80	AVG	
7	1.5420	18.11	20.13	38.24	56.00	-17.76	QP	
8	1.5420	8.40	20.13	28.53	46.00	-17.47	AVG	
9	1.8940	15.53	20.14	35.67	56.00	-20.33	QP	
10	1.8980	8.16	20.14	28.30	46.00	-17.70	AVG	
11	2.2139	14.54	20.14	34.68	56.00	-21.32	QP	
12	4.8140	4.68	20.20	24.88	46.00	-21.12	AVG	

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

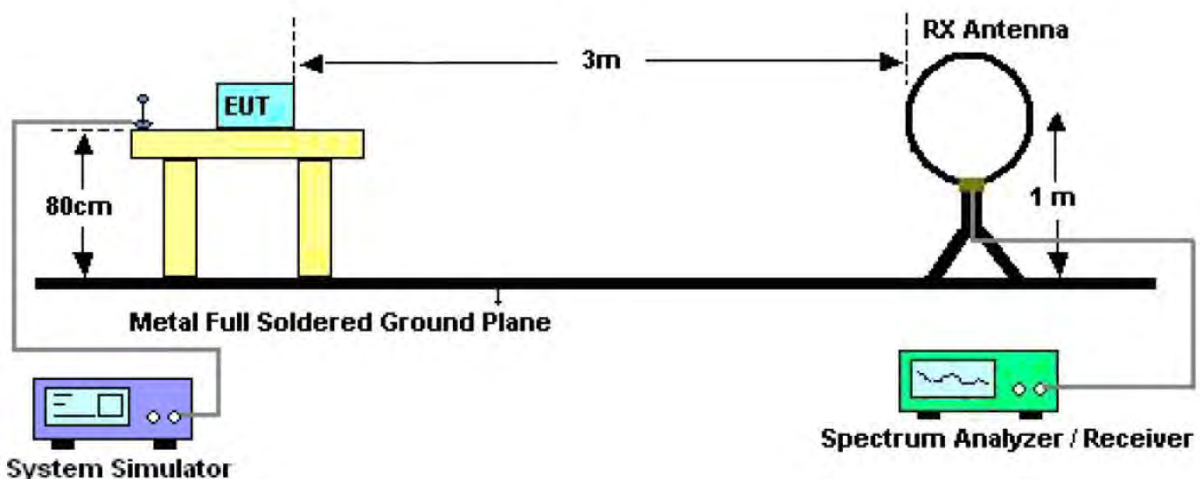


Figure 1. Below 30MHz

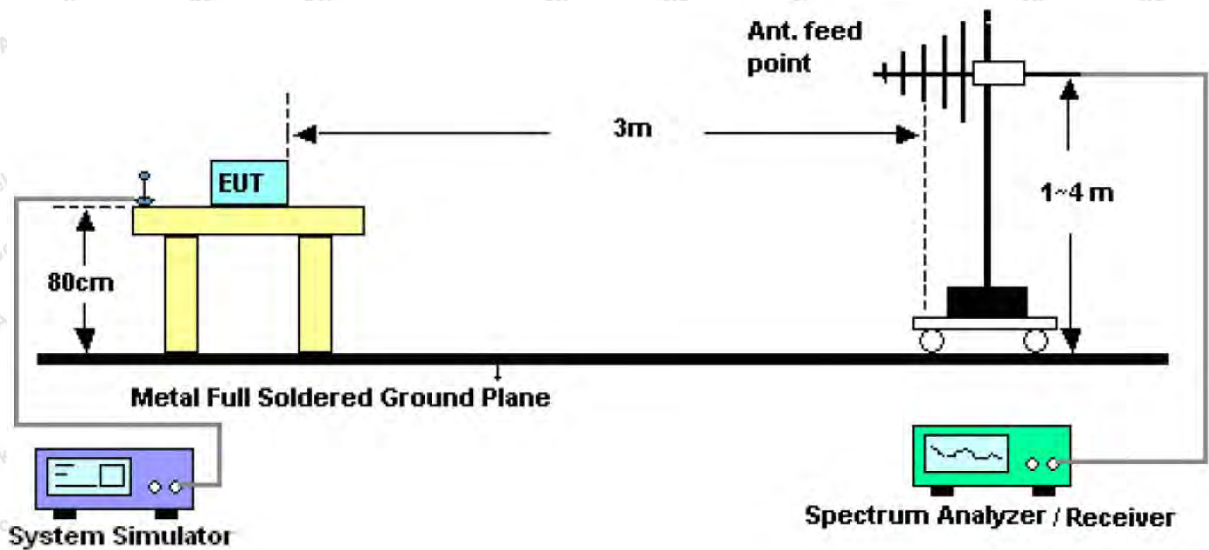


Figure 2. 30MHz to 1GHz

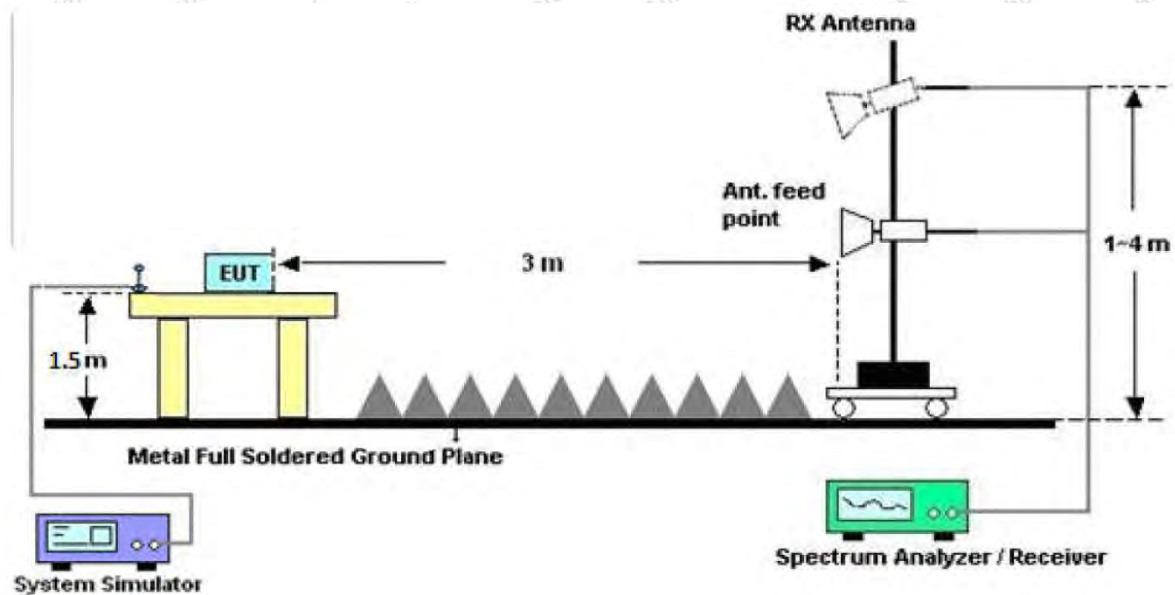


Figure 3. Above 1 GHz

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.: SZAWW180731003-01

Standard: FCC PART15 C_3m

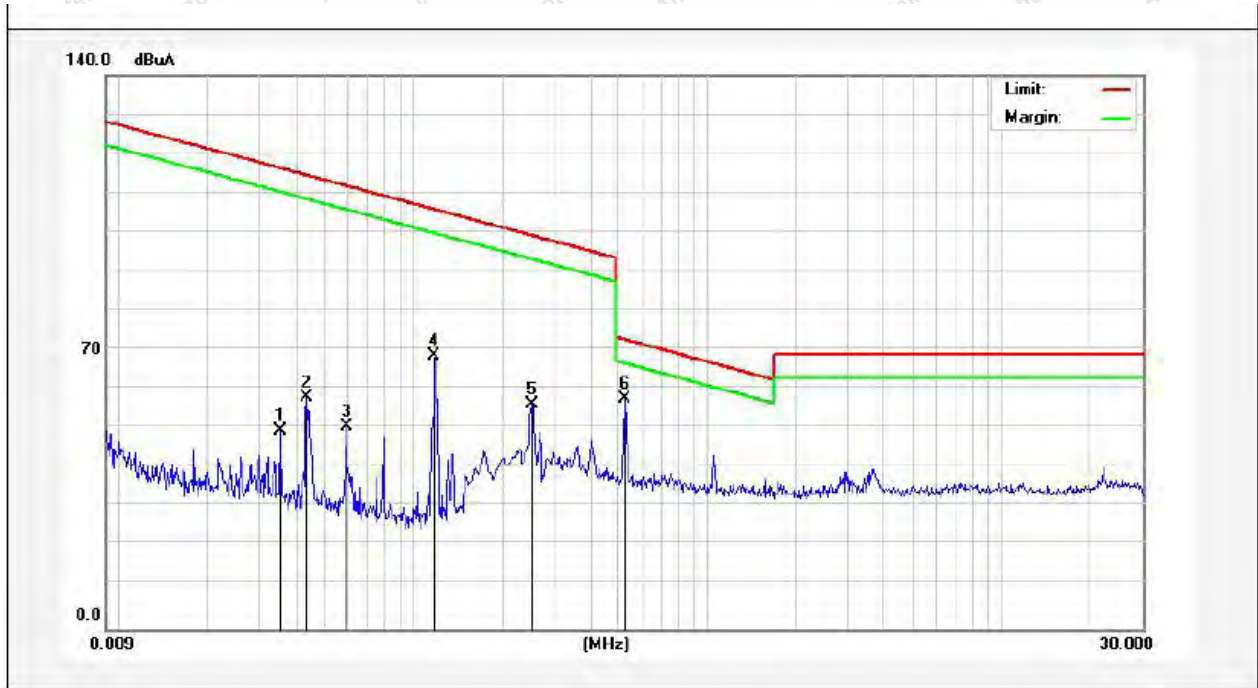
Power Source: AC 120V, 60Hz for adapter

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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0352	47.73	19.28	2.53	0	69.54	136.55	-67.01	Peak	30
0.0352	28.46	19.28	2.53	0	50.27	116.55	-66.28	AV	30
0.0434	43.60	19.30	2.53	0	65.43	134.74	-69.31	Peak	90
0.0434	36.71	19.30	2.53	0	58.54	114.74	-56.20	AV	90
0.0592	48.78	19.32	2.55	0	70.65	132.05	-61.40	Peak	144
0.0592	29.58	19.32	2.55	0	51.45	112.05	-60.60	AV	144
0.1184	63.37	19.36	2.62	0	85.35	126.07	-40.72	Peak	45
0.1184	47.24	19.36	2.62	0	69.22	106.07	-36.85	AV	45
0.2540	47.23	19.38	2.63	0	69.24	119.47	-50.23	Peak	110
0.2540	34.95	19.38	2.63	0	56.96	99.47	-42.51	AV	110
0.5260	36.41	19.38	2.63	0	58.42	73.18	-14.76	QP	180

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.:	SZAWW180731003-01	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	39.0245	36.58	-14.90	21.68	40.00	-18.32	QP	300	121	
2	90.8554	51.71	-22.94	28.77	43.50	-14.73	QP	300	22	
3	96.4362	50.36	-21.09	29.27	43.50	-14.23	QP	300	145	
4	119.4361	49.80	-21.29	28.51	43.50	-14.99	QP	300	312	
5	148.4410	46.34	-21.36	24.98	43.50	-18.52	QP	300	214	
6	185.7882	44.82	-19.89	24.93	43.50	-18.57	QP	300	21	

Job No.:	SZAWW180731003-01	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	34.7601	49.77	-16.16	33.61	40.00	-6.39	QP	300	12	
2	40.1347	44.74	-13.40	31.34	40.00	-8.66	QP	300	124	
3	68.1514	50.70	-19.10	31.60	40.00	-8.40	QP	300	215	
4	84.1100	50.66	-18.27	32.39	40.00	-7.61	QP	300	312	
5	178.1327	49.68	-15.98	33.70	43.50	-9.80	QP	300	22	
6	958.7943	36.17	-2.83	33.34	46.00	-12.66	QP	300	215	

Job No.:	SZAWW180731003-01	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	39.5757	36.79	-14.60	22.19	40.00	-17.81	QP	300	12	
2	56.0007	37.48	-16.79	20.69	40.00	-19.31	QP	300	122	
3	97.1148	49.72	-21.02	28.70	43.50	-14.80	QP	300	211	
4	112.5244	49.62	-20.80	28.82	43.50	-14.68	QP	300	31	
5	148.9625	45.32	-21.36	23.96	43.50	-19.54	QP	300	122	
6	178.7584	43.54	-19.81	23.73	43.50	-19.77	QP	300	321	

Job No.:	SZAWW180731003-01	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	39.9942	46.61	-13.37	33.24	40.00	-6.76	QP	300	121	
2	56.9912	44.04	-15.83	28.21	40.00	-11.79	QP	300	21	
3	93.1132	47.84	-16.00	31.84	43.50	-11.66	QP	300	214	
4	113.3163	45.97	-14.86	31.11	43.50	-12.39	QP	300	312	
5	192.4186	44.89	-14.91	29.98	43.50	-13.52	QP	300	21	
6	429.5228	33.70	-11.24	22.46	46.00	-23.54	QP	300	124	

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 Loop Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

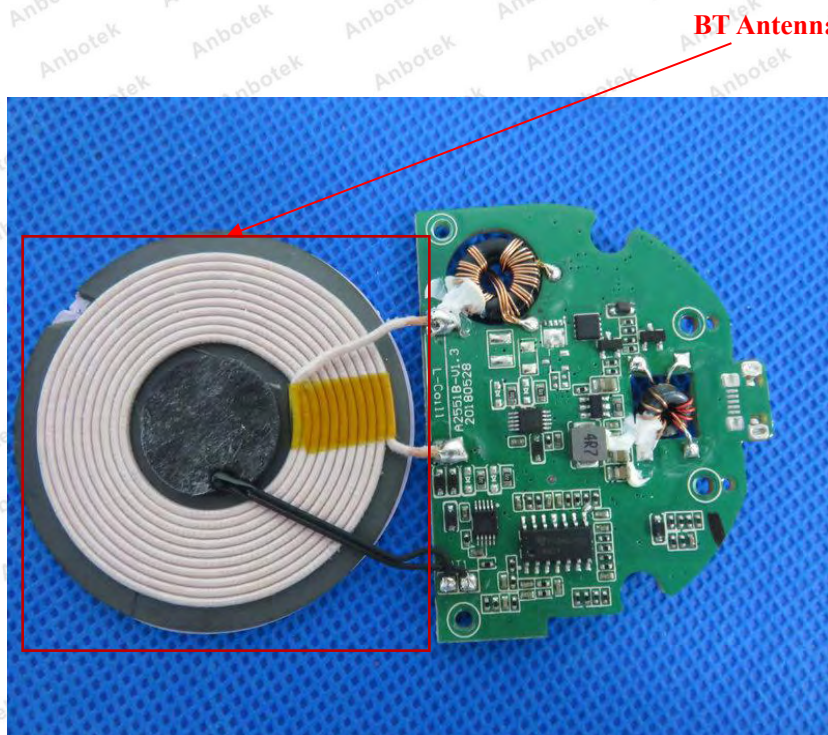
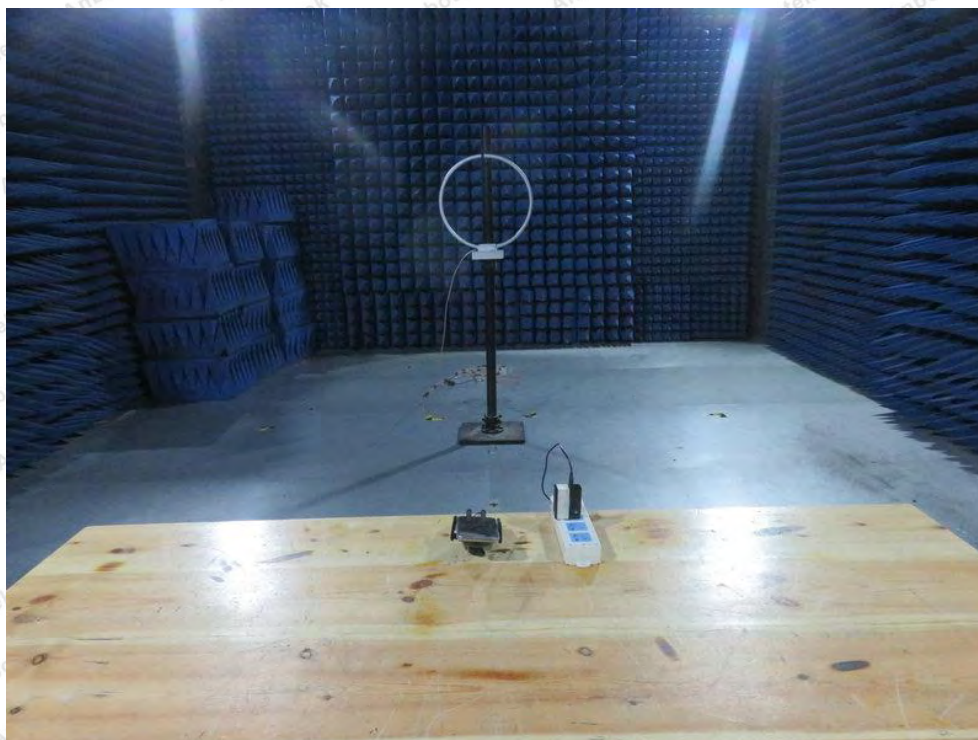


Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

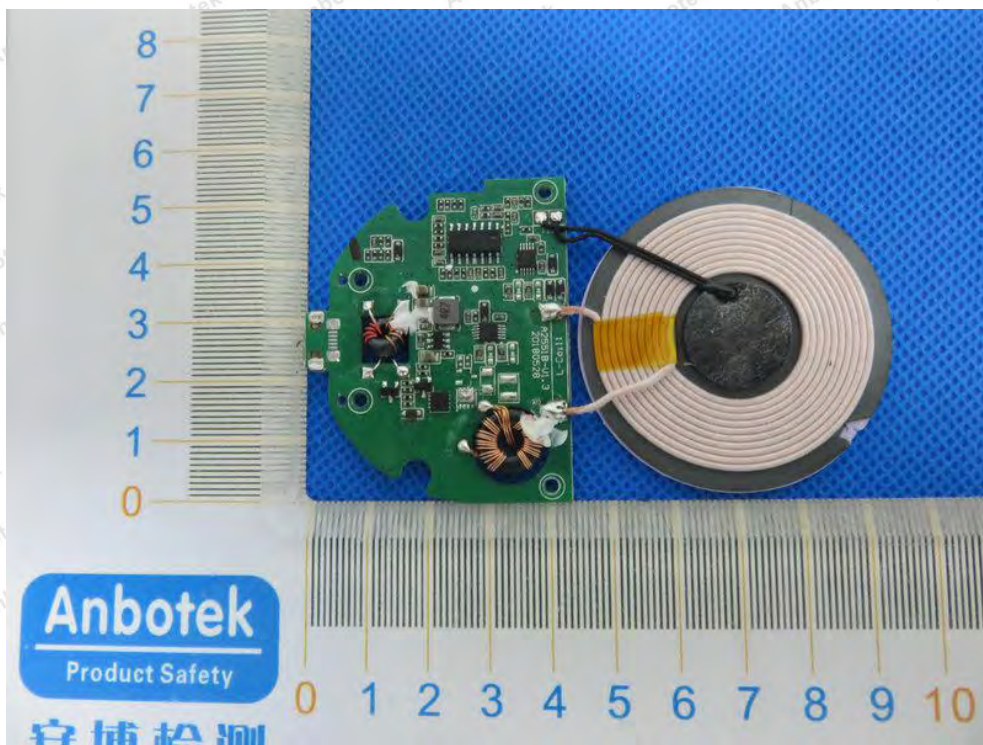
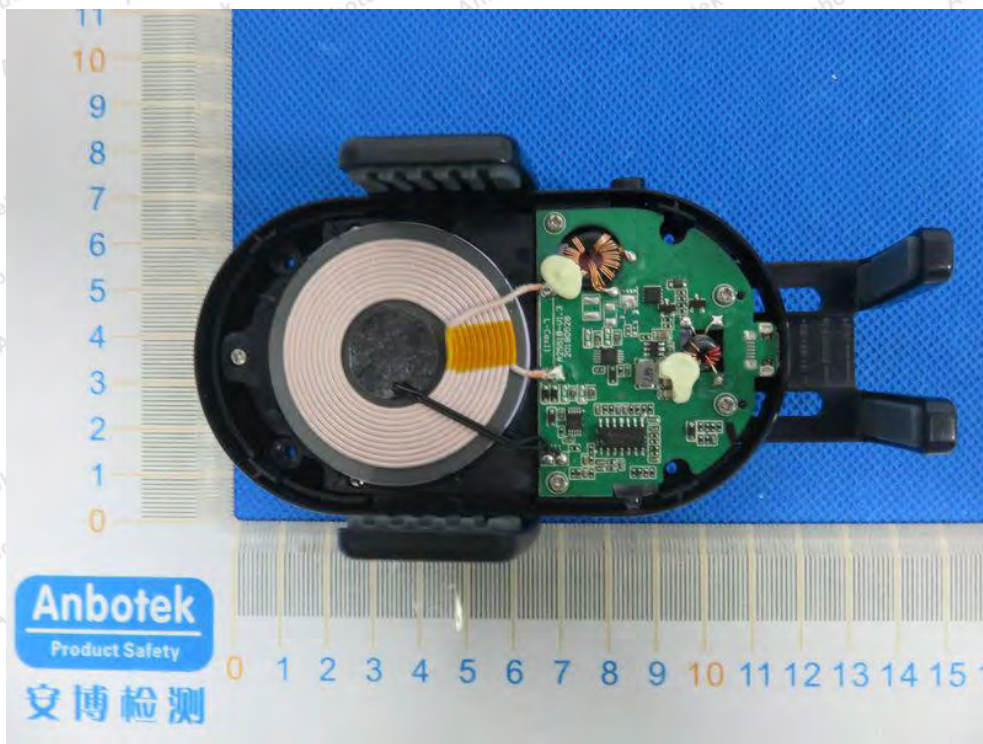


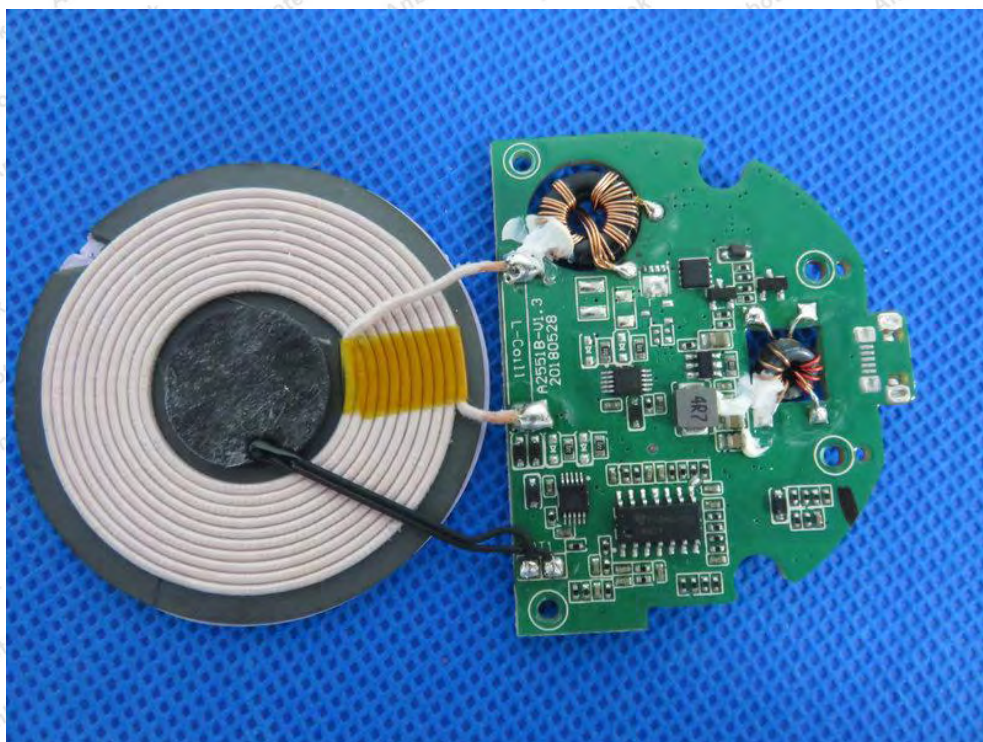
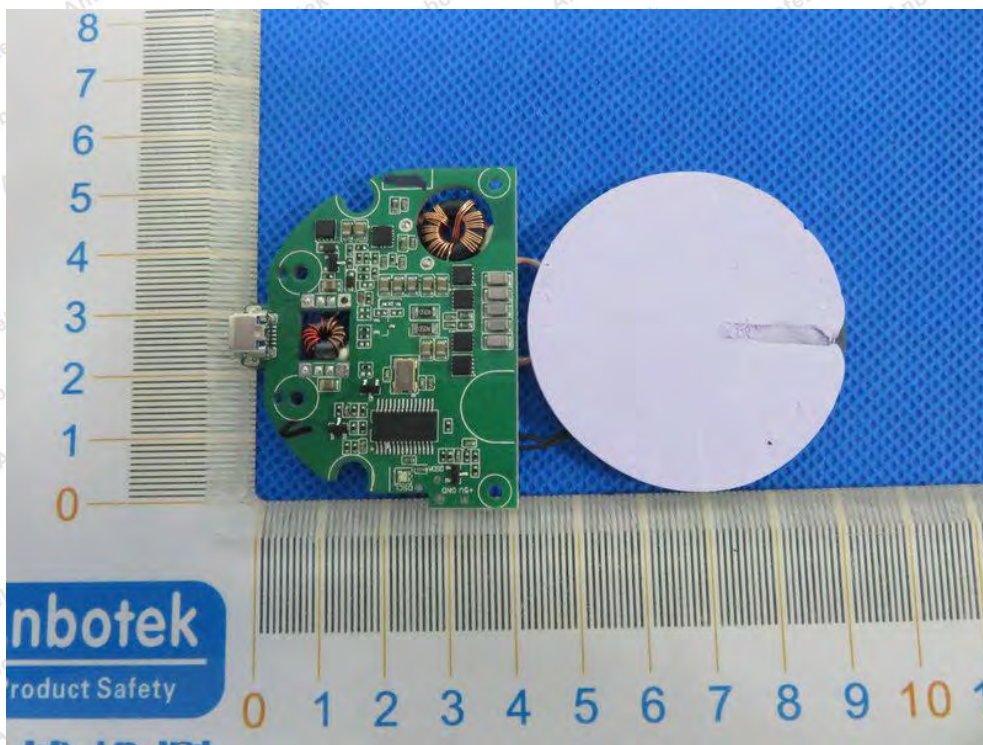


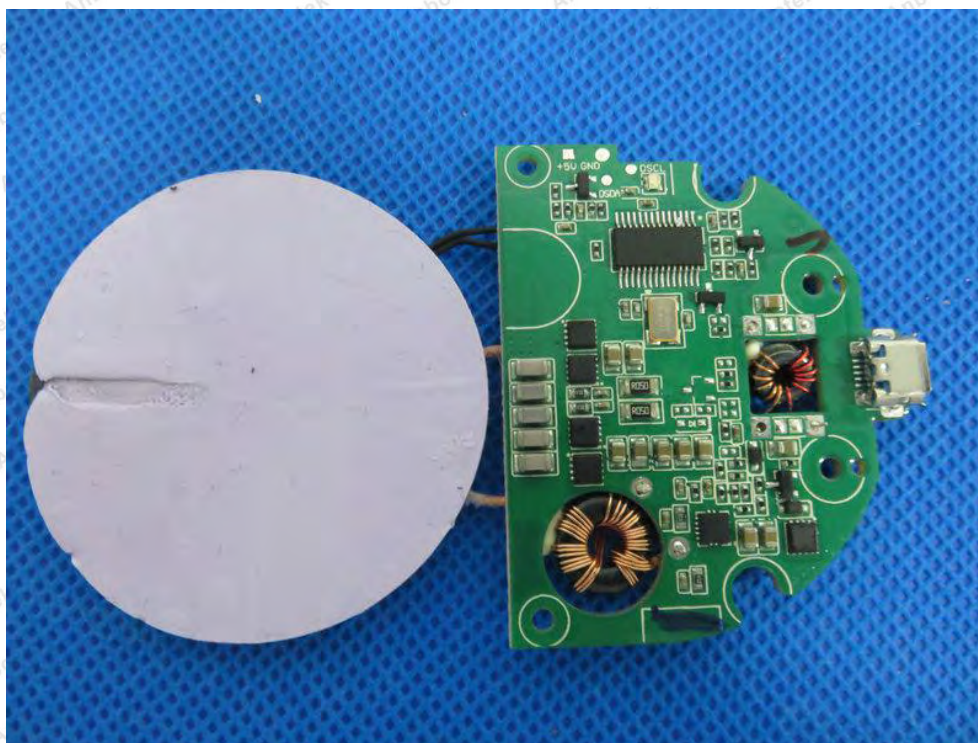




APPENDIX III -- INTERNAL PHOTOGRAPH







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