

FCC TEST REPORT

For

SHENZHEN SEMETOR ELECTRONICS CO., LTD

Wireless quick charger with LED atmosphere lamp

Model No.: S-18

Prepared For : SHENZHEN SEMETOR ELECTRONICS CO., LTD
Address : 2/F., Bldg D, 165 Industrial Park, Dongshen Road, Egongling, Pinghu
Town, Longgang District Shenzhen City, China

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Date of Receipt : Aug. 20, 2018
Date of Test : Aug. 20~Sept. 18, 2018
Date of Report : Sept. 18, 2018

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TEST REPORT

Applicant : SHENZHEN SEMETOR ELECTRONICS CO., LTD
Manufacturer : SHENZHEN SEMETOR ELECTRONICS CO., LTD
Product Name : Wireless quick charger with LED atmosphere lamp
Model No. : S-18
Trade Mark : N.A.
Rating(s) : Input: DC 5V, 1A/ DC 9V, 1.2A
Output: 5W/ 7.5W/ 10W

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

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

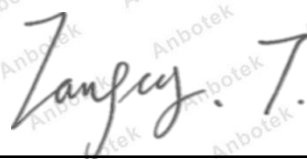
The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen 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

Aug. 20~Sept. 18, 2018

Prepared by



(Engineer / Tangcy Tang)

Reviewer



(Supervisor / Snowy Meng)

Approved & Authorized Signer



(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	SHENZHEN SEMETOR ELECTRONICS CO., LTD
Address	:	2/F., Bldg D, 165 Industrial Park, DongshenRoad, Egongling, Pinghu Town, Longgang District Shenzhen City, China
Manufacturer	:	SHENZHEN SEMETOR ELECTRONICS CO., LTD
Address	:	2/F., Bldg D, 165 Industrial Park, DongshenRoad, Egongling, Pinghu Town, Longgang District Shenzhen City, China

1.2. Description of Device (EUT)

Product Name	:	Wireless quick charger with LED atmosphere lamp	
Model No.	:	S-18	
Trade Mark	:	N.A.	
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:	111~140KHz
		Modulation Type:	MSK
		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	:	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

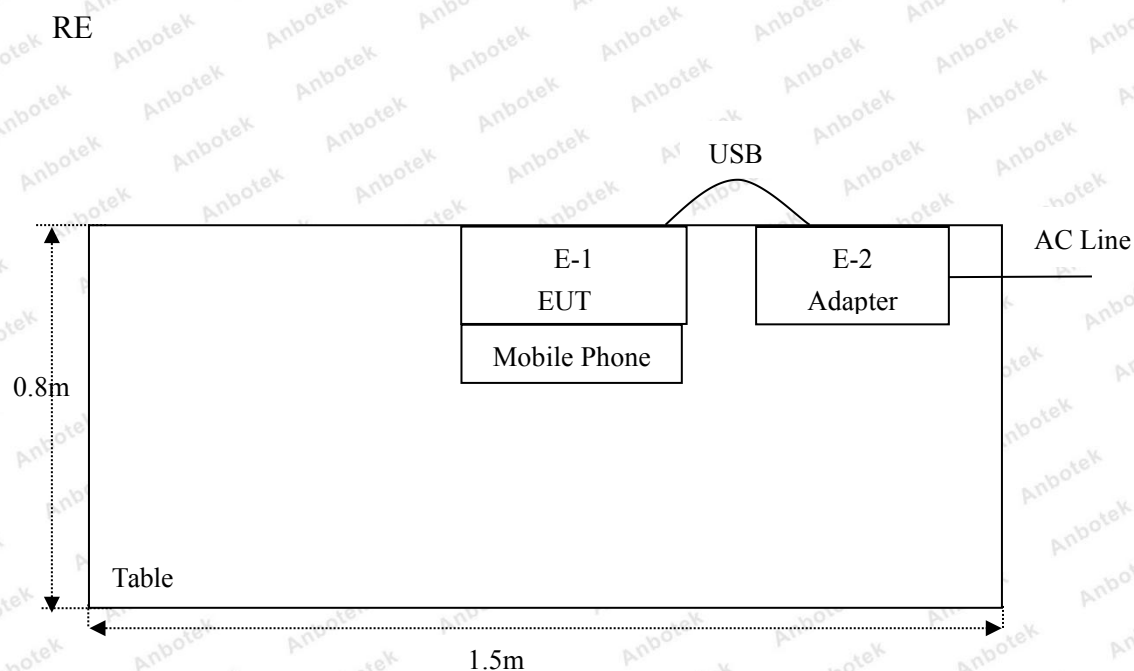
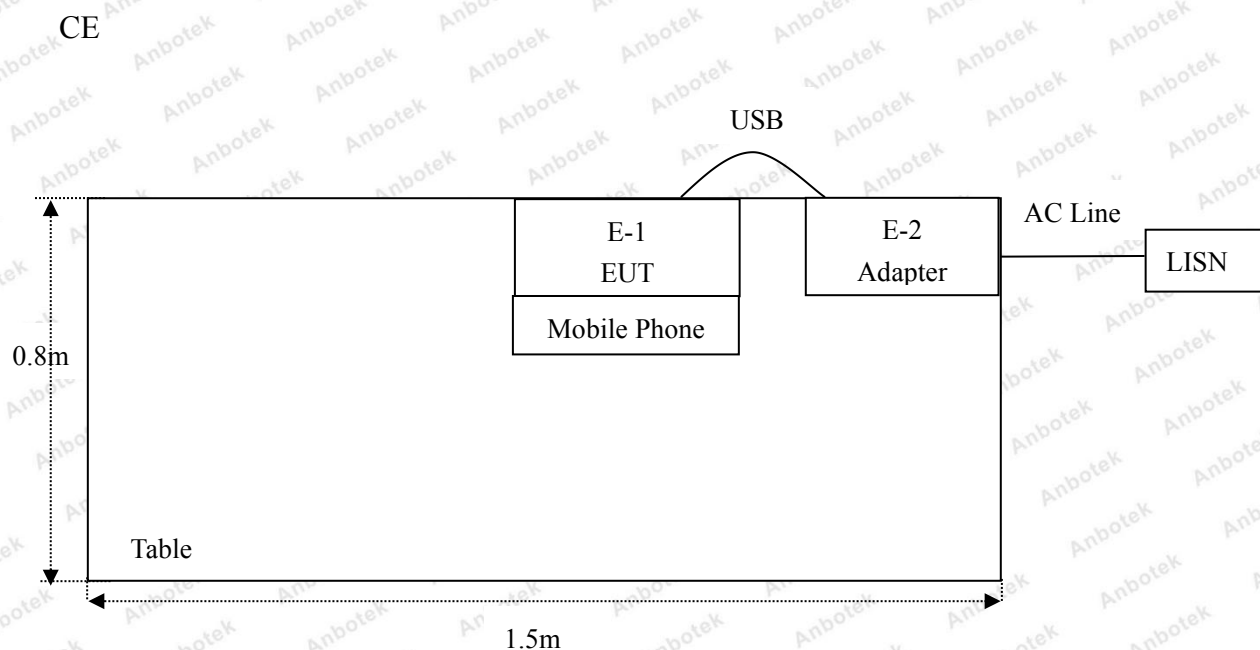
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX Mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode

1.5. Description Of Test Setup



1.6. 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.	Loop 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

1.7. 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, 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

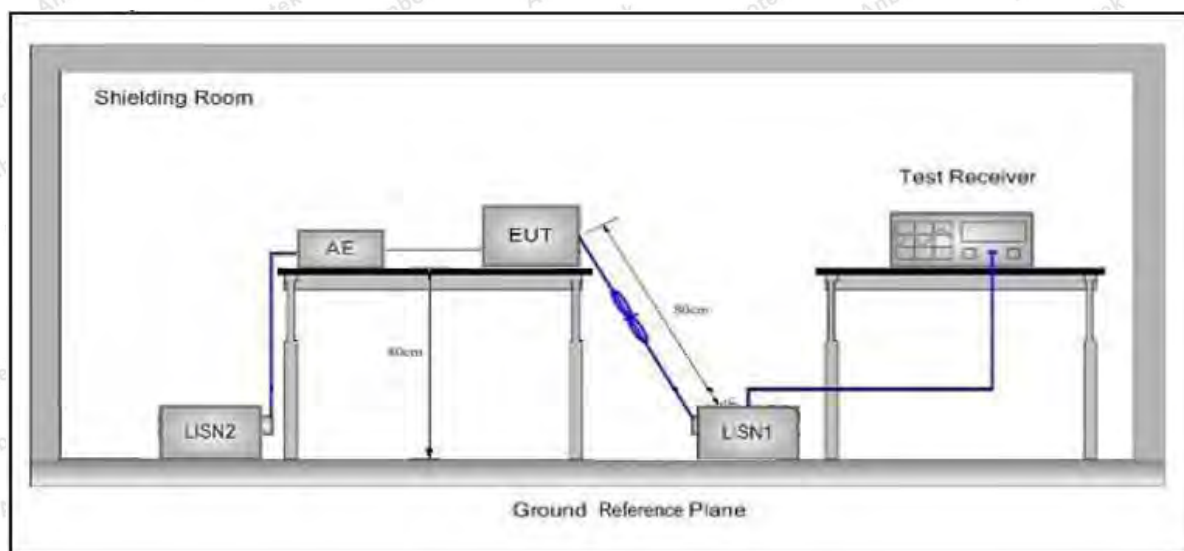
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

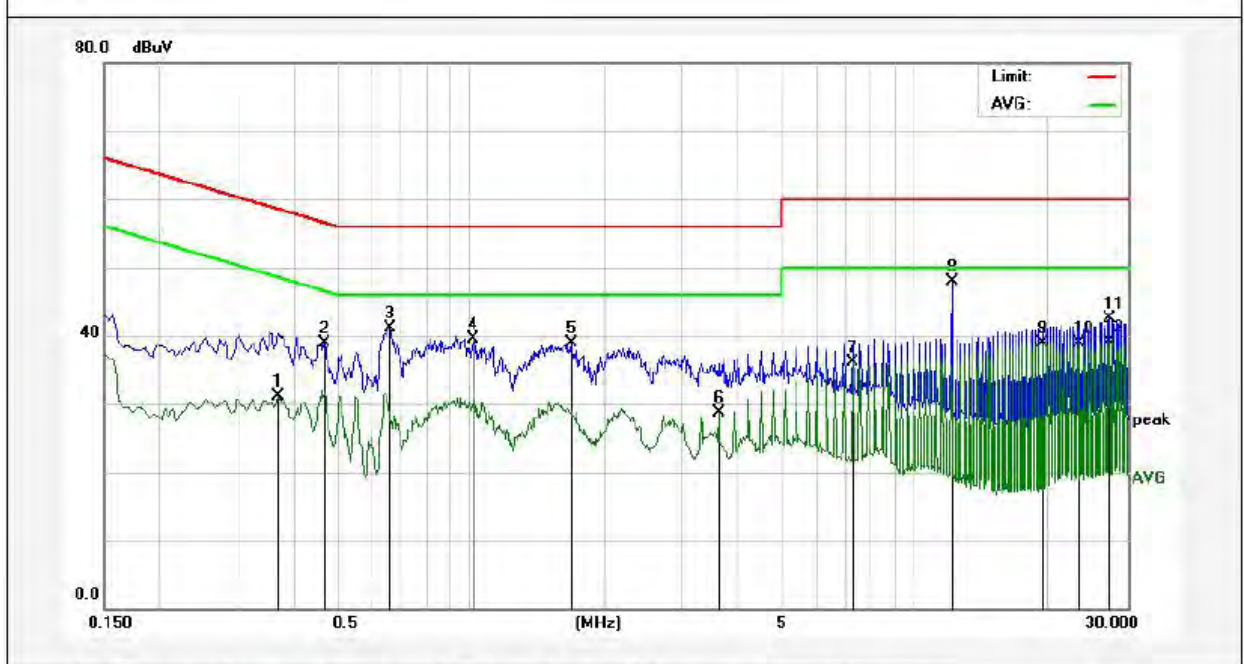
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

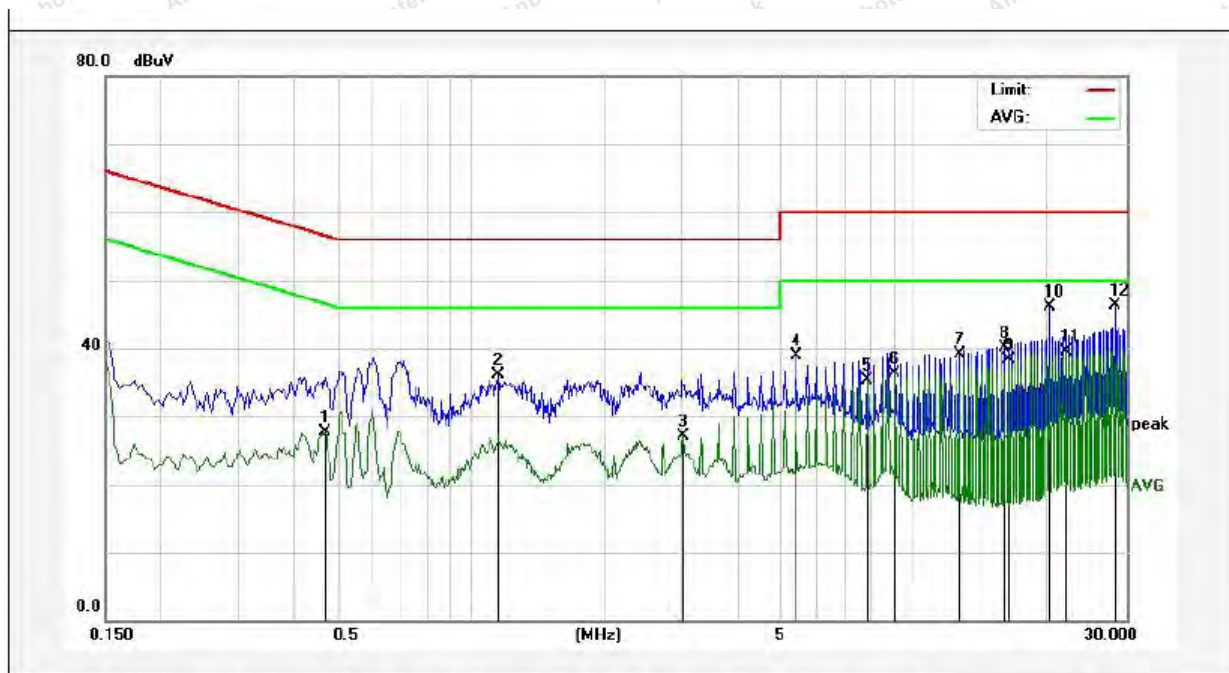
Test Site: 1# Shielded Room
Operating Condition: TX Mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3700	11.15	19.92	31.07	48.50	-17.43	AVG	
2	0.4700	19.00	19.97	38.97	56.51	-17.54	QP	
3	0.6580	21.15	20.03	41.18	56.00	-14.82	QP	
4	1.0180	19.45	20.12	39.57	56.00	-16.43	QP	
5	1.6820	18.80	20.13	38.93	56.00	-17.07	QP	
6	3.6100	8.57	20.17	28.74	46.00	-17.26	AVG	
7	7.2220	15.77	20.27	36.04	50.00	-13.96	AVG	
8	12.0780	27.57	20.31	47.88	60.00	-12.12	QP	
9	19.2620	18.57	20.33	38.90	50.00	-11.10	AVG	
10	23.4700	18.57	20.30	38.87	50.00	-11.13	AVG	
11	27.3860	22.32	20.28	42.60	60.00	-17.40	QP	
12	27.3860	18.88	20.28	39.16	50.00	-10.84	AVG	

Conducted Emission Test Data

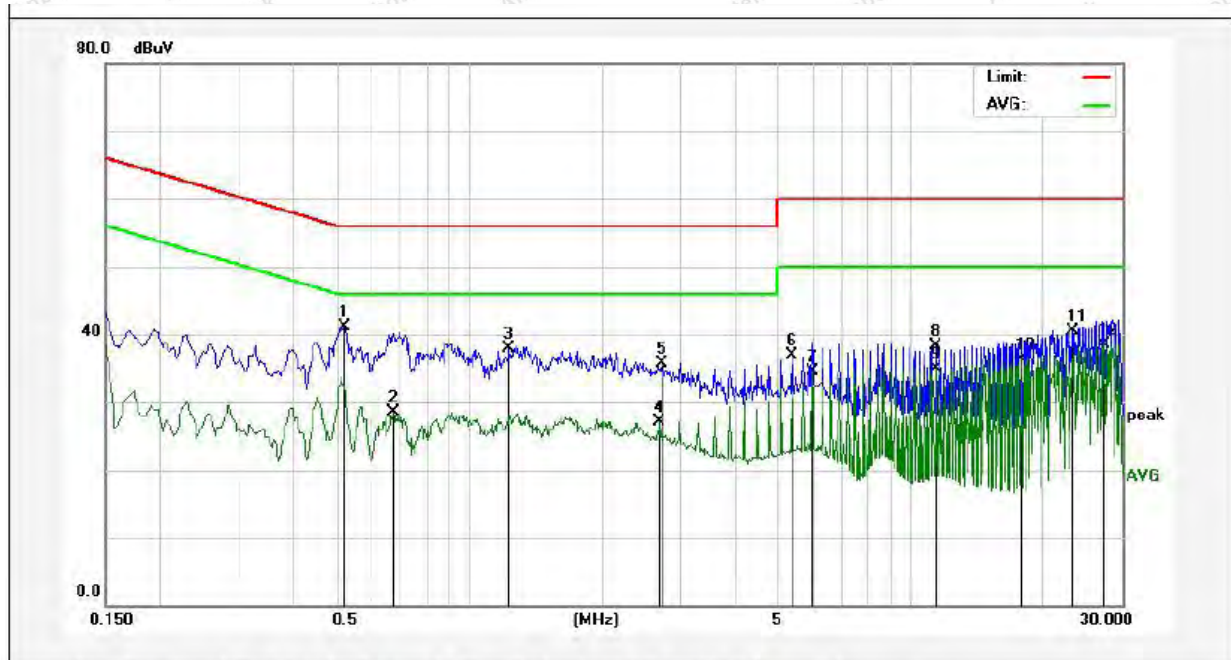
Test Site: 1# Shielded Room
Operating Condition: TX Mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4700	7.68	19.97	27.65	46.51	-18.86	AVG	
2	1.1539	15.99	20.12	36.11	56.00	-19.89	QP	
3	3.0100	6.98	20.16	27.14	46.00	-18.86	AVG	
4	5.4180	18.73	20.22	38.95	60.00	-21.05	QP	
5	7.8220	15.12	20.28	35.40	50.00	-14.60	AVG	
6	9.0260	16.03	20.31	36.34	50.00	-13.66	AVG	
7	12.6380	18.79	20.30	39.09	60.00	-20.91	QP	
8	15.9500	19.79	20.28	40.07	60.00	-19.93	QP	
9	16.2500	18.09	20.28	38.37	50.00	-11.63	AVG	
10	20.1580	25.72	20.34	46.06	60.00	-13.94	QP	
11	21.9660	19.26	20.32	39.58	50.00	-10.42	AVG	
12	28.2860	26.04	20.27	46.31	60.00	-13.69	QP	

Conducted Emission Test Data

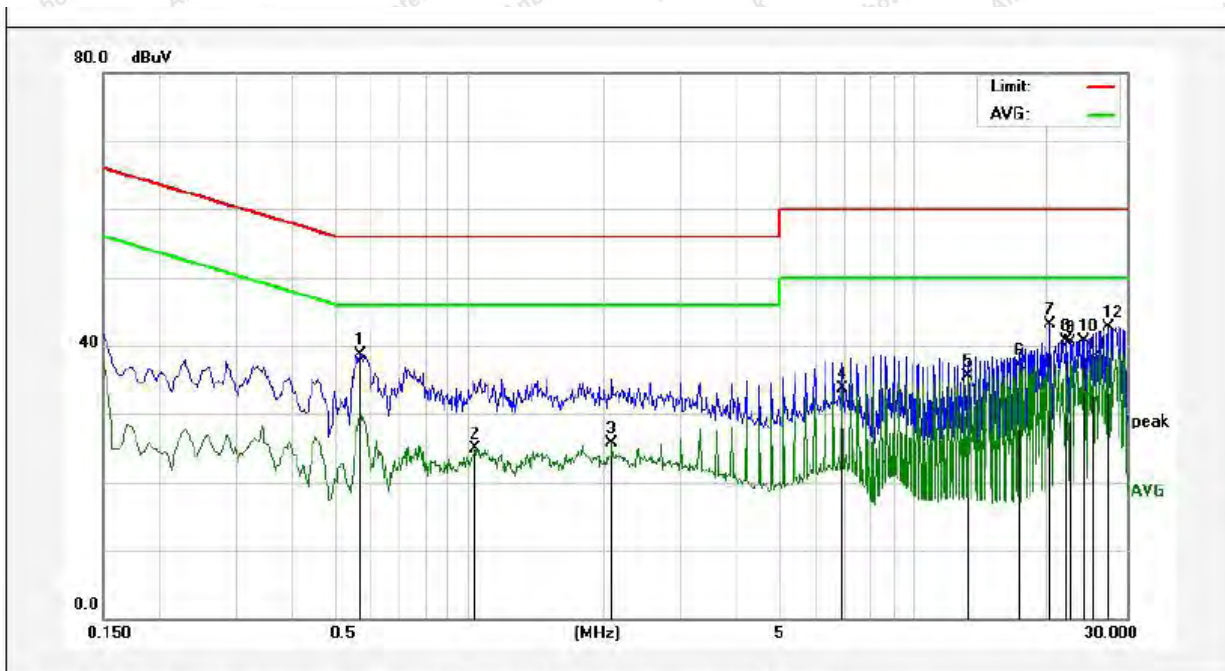
Test Site: 1# Shielded Room
Operating Condition: TX Mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.5220	21.06	19.99	41.05	56.00	-14.95	QP	
2	0.6740	8.46	20.03	28.49	46.00	-17.51	AVG	
3	1.2340	17.79	20.12	37.91	56.00	-18.09	QP	
4	2.6940	6.99	20.15	27.14	46.00	-18.86	AVG	
5	2.7340	15.65	20.15	35.80	56.00	-20.20	QP	
6	5.3900	16.67	20.22	36.89	60.00	-23.11	QP	
7	5.9899	14.31	20.23	34.54	50.00	-15.46	AVG	
8	11.3820	17.94	20.32	38.26	60.00	-21.74	QP	
9	11.3820	14.60	20.32	34.92	50.00	-15.08	AVG	
10	17.8180	16.05	20.31	36.36	50.00	-13.64	AVG	
11	23.2099	20.24	20.30	40.54	60.00	-19.46	QP	
12	27.4060	18.32	20.28	38.60	50.00	-11.40	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TX 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	0.5700	18.78	20.00	38.78	56.00	-17.22	QP	
2	1.0339	4.75	20.12	24.87	46.00	-21.13	AVG	
3	2.0980	5.47	20.14	25.61	46.00	-20.39	AVG	
4	6.8860	13.49	20.26	33.75	50.00	-16.25	AVG	
5	13.1740	15.30	20.29	35.59	50.00	-14.41	AVG	
6	17.2180	16.75	20.30	37.05	50.00	-12.95	AVG	
7	20.0620	22.83	20.34	43.17	60.00	-16.83	QP	
8	22.0100	20.36	20.32	40.68	60.00	-19.32	QP	
9	22.3060	20.10	20.31	40.41	60.00	-19.59	QP	
10	24.1020	20.44	20.29	40.73	60.00	-19.27	QP	
11	25.3020	17.87	20.28	38.15	50.00	-11.85	AVG	
12	27.4020	22.36	20.28	42.64	60.00	-17.36	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

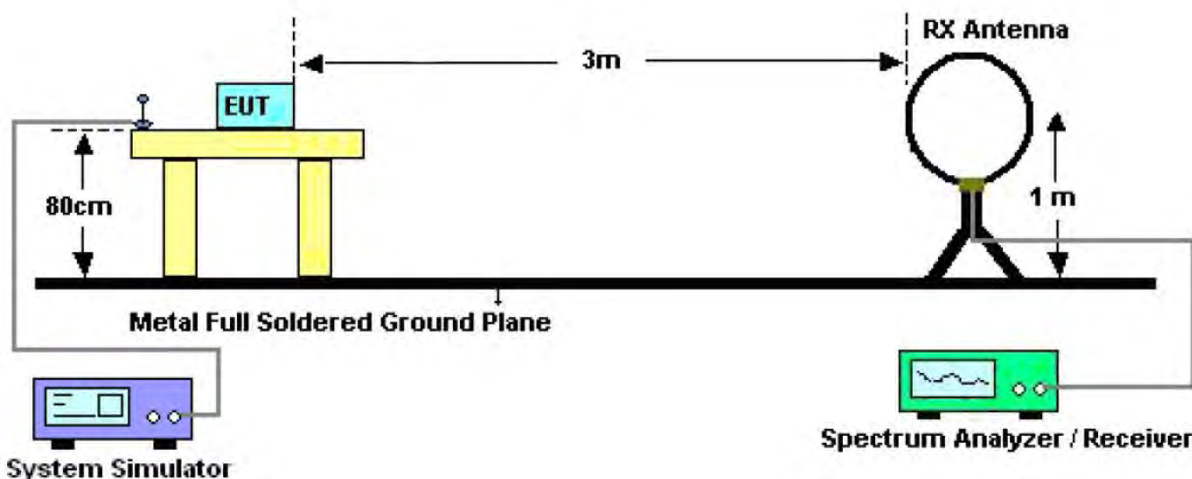


Figure 1. Below 30MHz

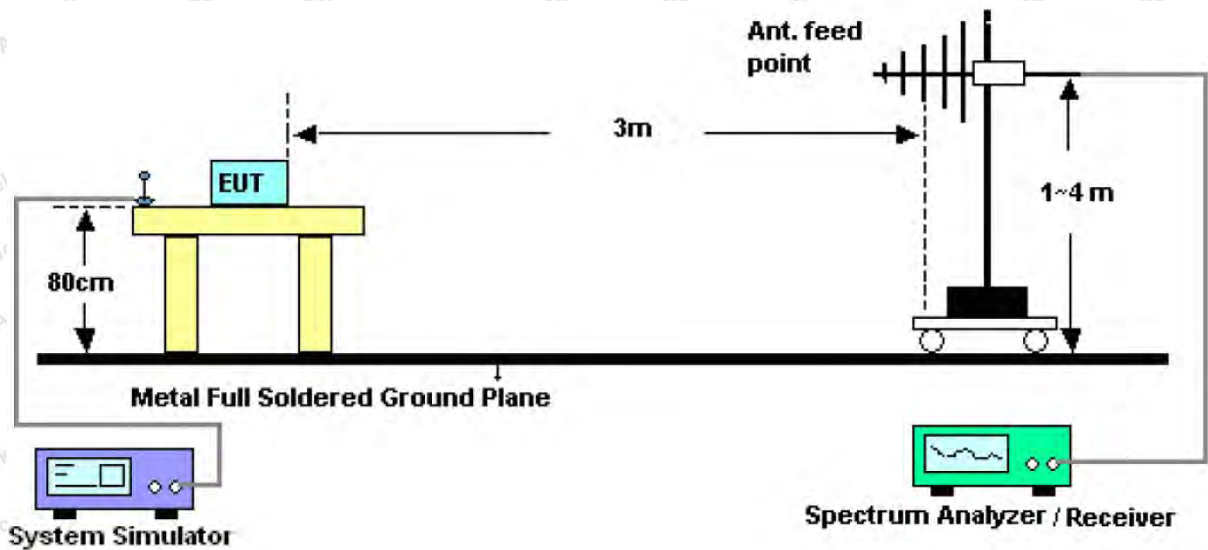


Figure 2. 30MHz to 1GHz

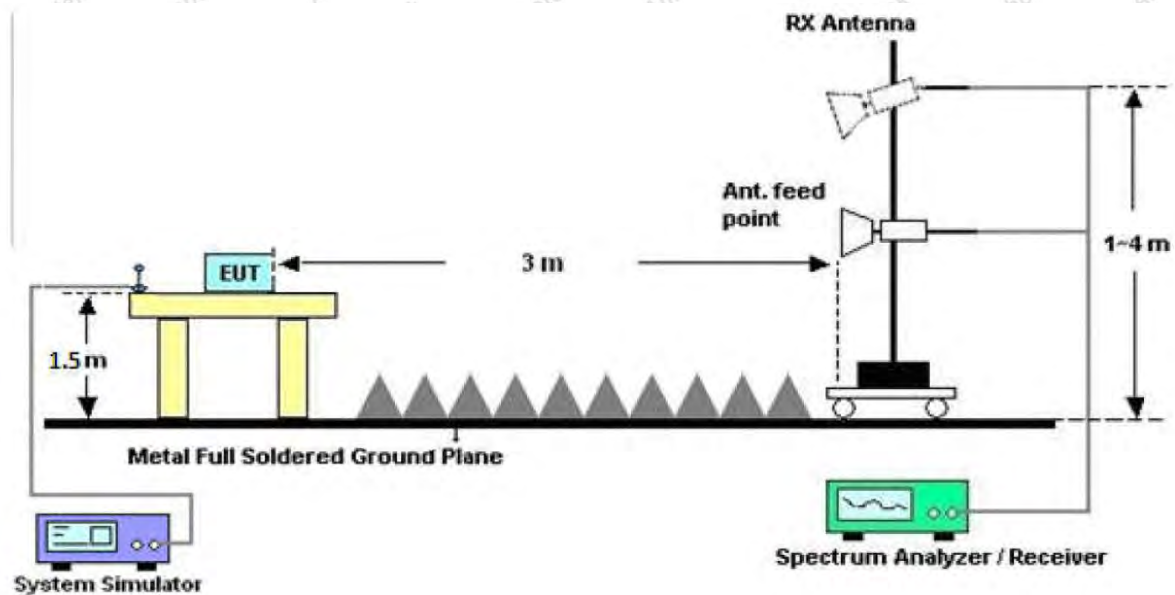


Figure 3. Above 1 GHz

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.: SZAWW180820009-01

Standard: FCC PART15 C_3m

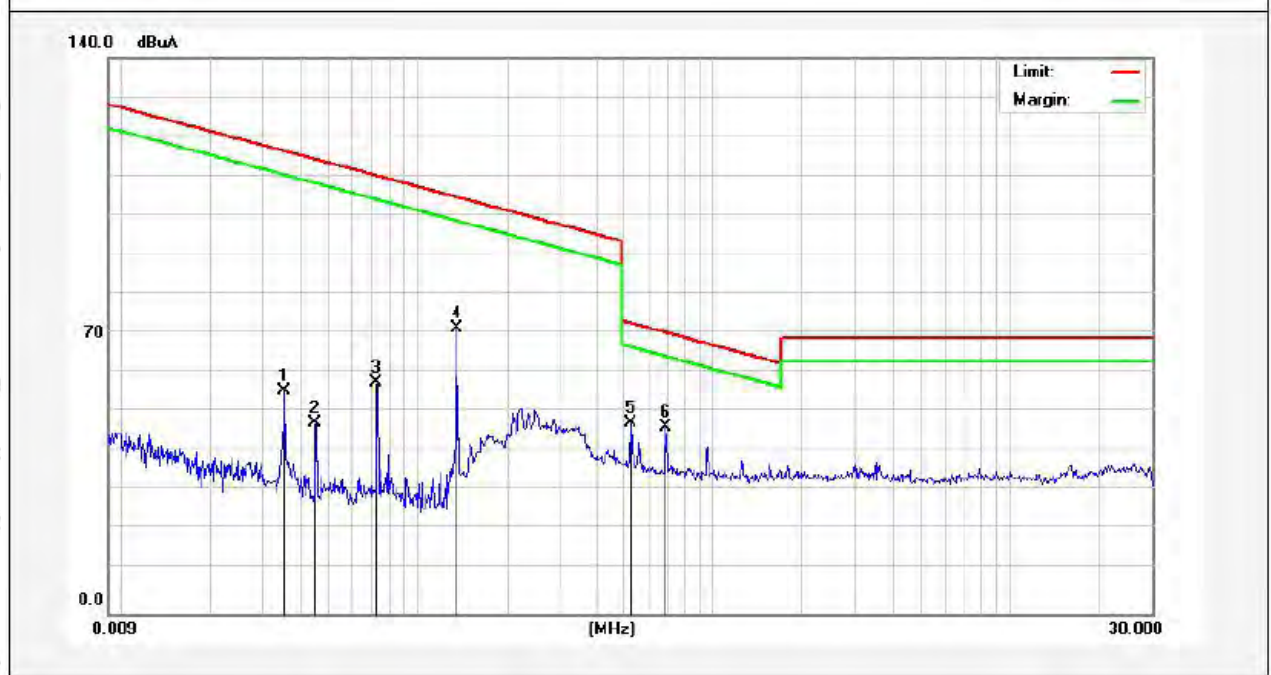
Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 24.9°C/57%RH

Test Mode: Mode 1

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)
0.0354	45.48	19.28	2.53	0	67.29	136.50	-69.21	Peak	125
0.0354	34.22	19.28	2.53	0	56.03	116.50	-60.47	AV	125
0.0451	37.11	19.28	2.53	0	58.92	134.40	-75.48	Peak	304
0.0451	26.18	19.28	2.53	0	47.99	114.40	-66.41	AV	304
0.0782	48.02	19.53	2.59	0	70.14	130.27	-60.13	Peak	59
0.0782	36.00	19.53	2.59	0	58.12	110.27	-52.15	AV	59
0.1360	58.81	19.53	2.59	0	80.93	124.87	-43.94	Peak	118
0.1360	49.92	19.53	2.59	0	72.04	104.87	-32.83	AV	118
0.5260	25.15	20.34	2.59	0	48.08	73.18	-25.10	QP	329
0.6897	24.07	20.34	2.59	0	47.00	70.83	-23.83	QP	116

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.:	SZAWW180820009-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.9°C/56%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.6379	51.26	-18.36	32.90	40.00	-7.10	QP	300	74	
2	38.8878	43.84	-14.97	28.87	40.00	-11.13	QP	300	115	
3	56.3948	41.74	-16.80	24.94	40.00	-15.06	QP	300	169	
4	153.2004	52.14	-21.19	30.95	43.50	-12.55	QP	300	225	
5	209.3129	48.47	-19.07	29.40	43.50	-14.10	QP	300	276	
6	258.3264	44.35	-18.50	25.85	46.00	-20.15	QP	300	330	

Job No.: SZAWW180820009-01
Standard: FCC PART15 C_3m
Test item: Radiation Test
Test Mode: Mode 1
Polarization: Vertical
Power Source: AC 120V, 60Hz for adapter
Temp.(C)/Hum.(%RH): 24.9°C/56%RH
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.1613	51.47	-13.82	37.65	40.00	-2.35	QP	300	0	
2	57.9993	45.87	-15.89	29.98	40.00	-10.02	QP	300	125	
3	96.0986	41.43	-15.12	26.31	43.50	-17.19	QP	300	176	
4	157.0074	51.00	-17.00	34.00	43.50	-9.50	QP	300	251	
5	212.2695	39.32	-14.52	24.80	43.50	-18.70	QP	300	320	
6	366.8231	34.78	-12.53	22.25	46.00	-23.75	QP	300	354	

Job No.: SZAWW180820009-01 **Polarization:** Horizontal
Standard: FCC PART15 C _3m **Power Source:** AC 240V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 24.9°C/56%RH
Test Mode: Mode 1 **Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	50.30	-18.55	31.75	40.00	-8.25	QP	300	55	
2	39.5757	39.38	-14.60	24.78	40.00	-15.22	QP	300	110	
3	74.9191	42.01	-21.59	20.42	40.00	-19.58	QP	300	176	
4	121.1231	50.85	-21.37	29.48	43.50	-14.02	QP	300	224	
5	193.0945	46.09	-19.60	26.49	43.50	-17.01	QP	300	303	
6	259.2338	42.95	-18.55	24.40	46.00	-21.60	QP	300	360	

Job No.:	SZAWW180820009-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.9°C/56%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.1616	46.17	-13.82	32.35	40.00	-7.65	QP	300	74	
2	70.3365	48.99	-19.88	29.11	40.00	-10.89	QP	300	114	
3	125.0066	47.46	-16.08	31.38	43.50	-12.12	QP	300	169	
4	152.6641	49.68	-17.22	32.46	43.50	-11.04	QP	300	224	
5	208.5803	39.76	-14.63	25.13	43.50	-18.37	QP	300	314	
6	362.9844	33.18	-12.61	20.57	46.00	-25.43	QP	300	325	

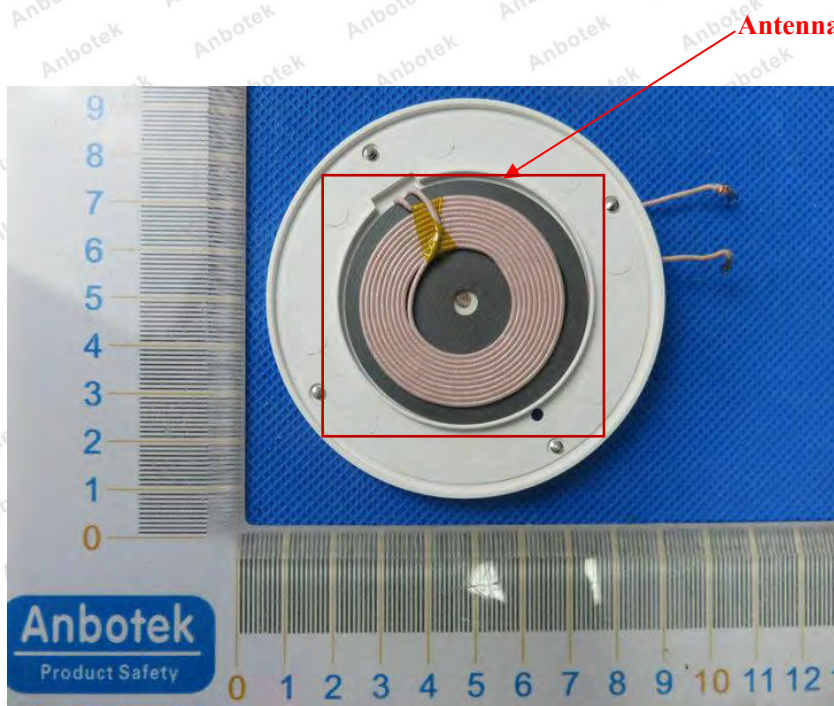
5. Antenna Requirement

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 bluetooth 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.

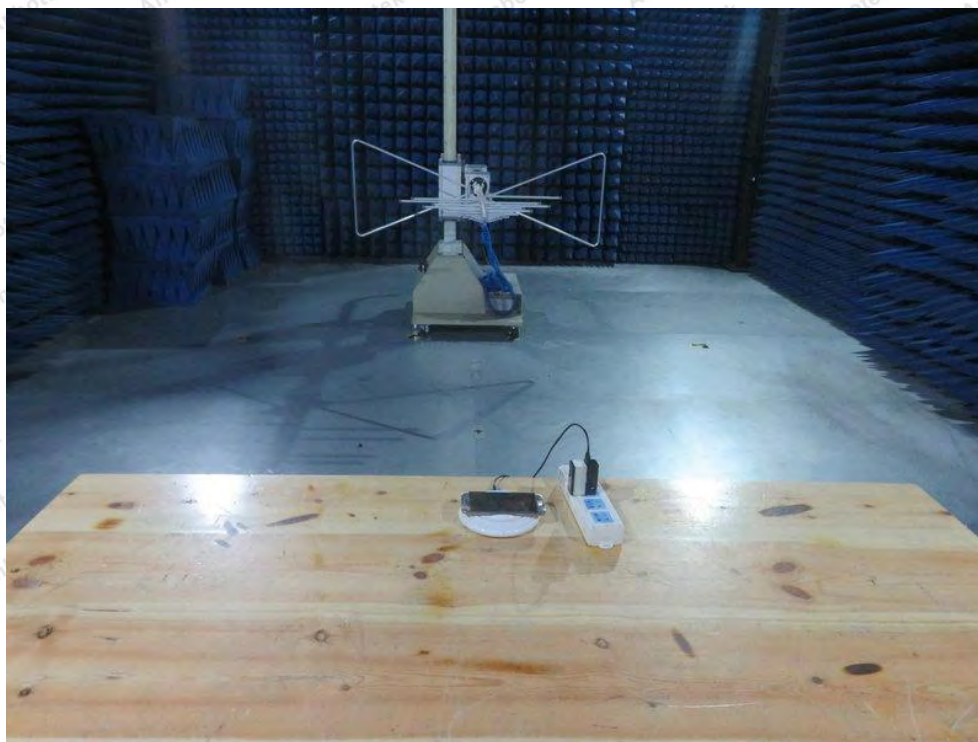


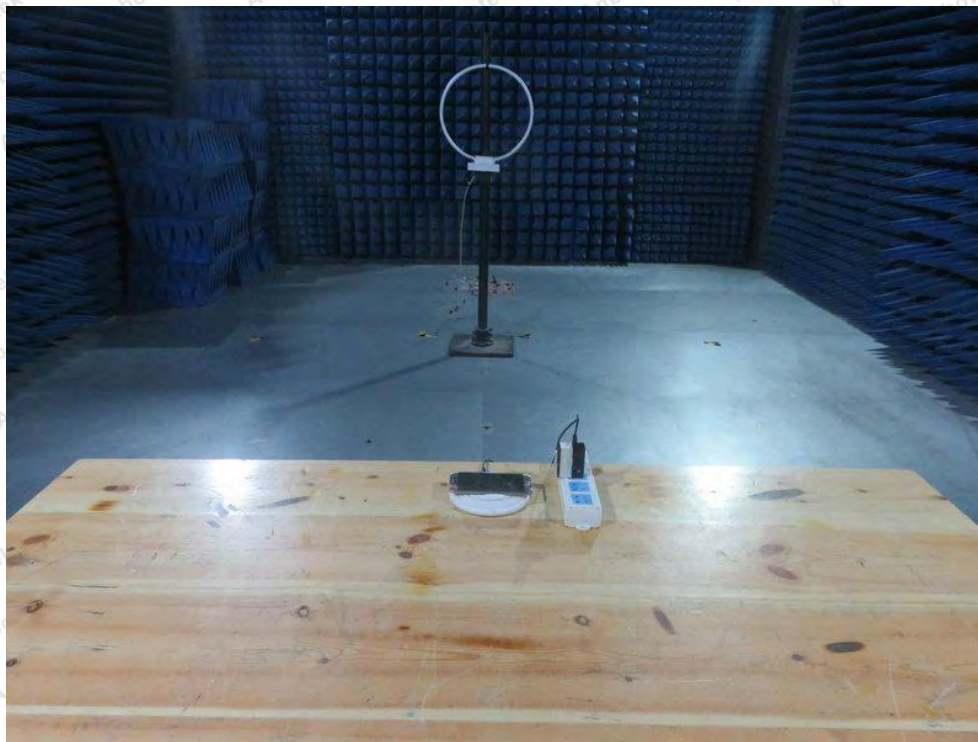
APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test

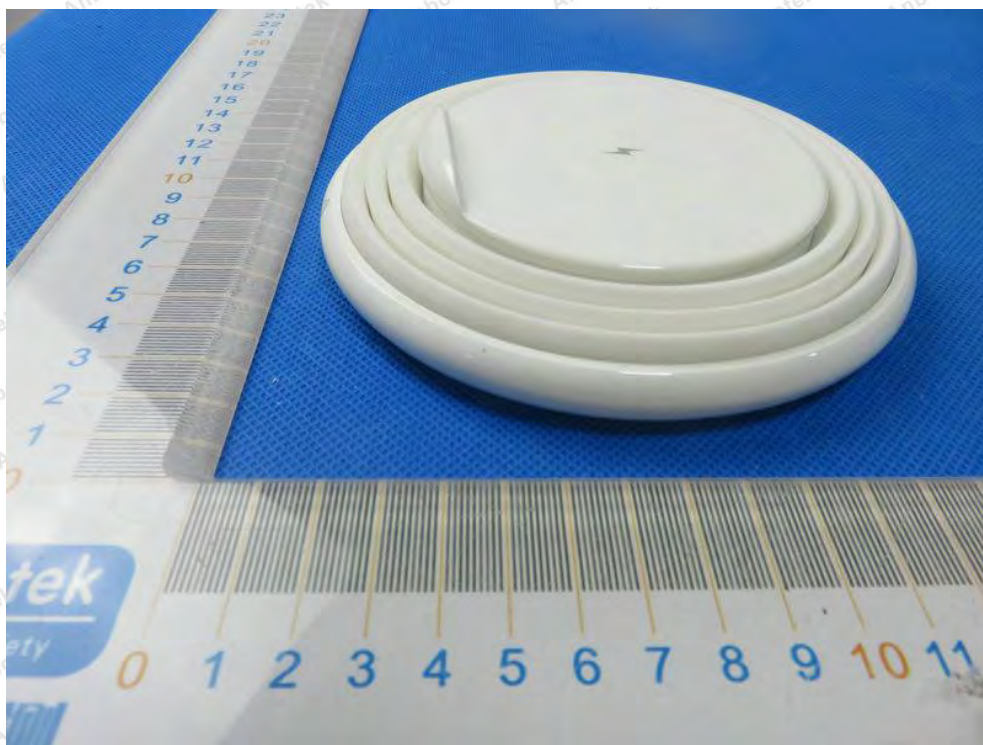


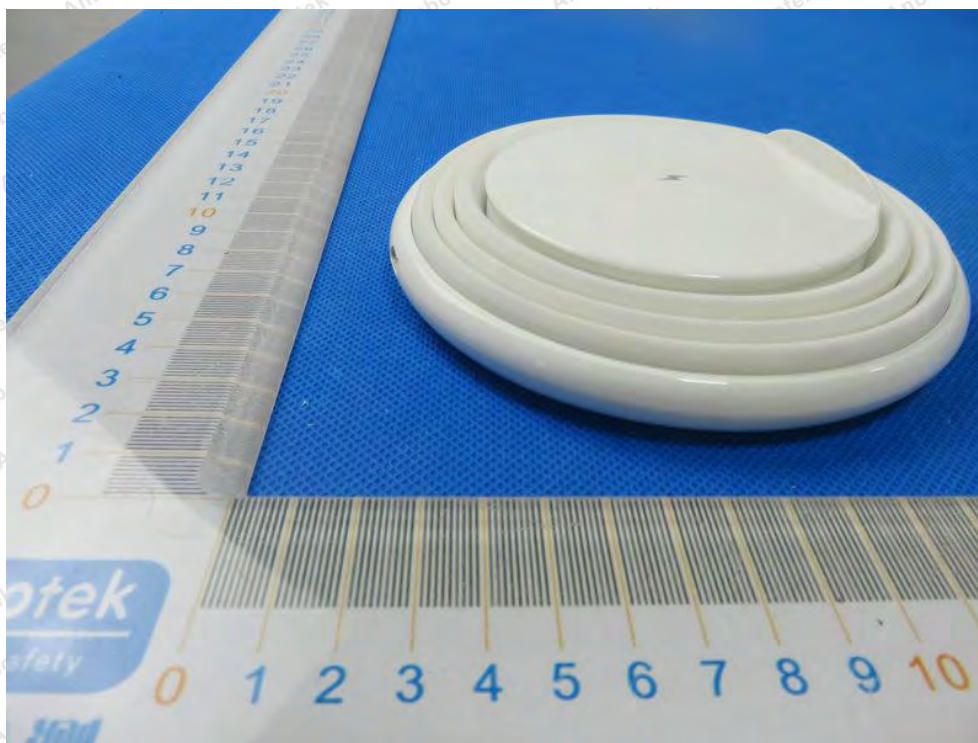


APPENDIX II -- EXTERNAL PHOTOGRAPH

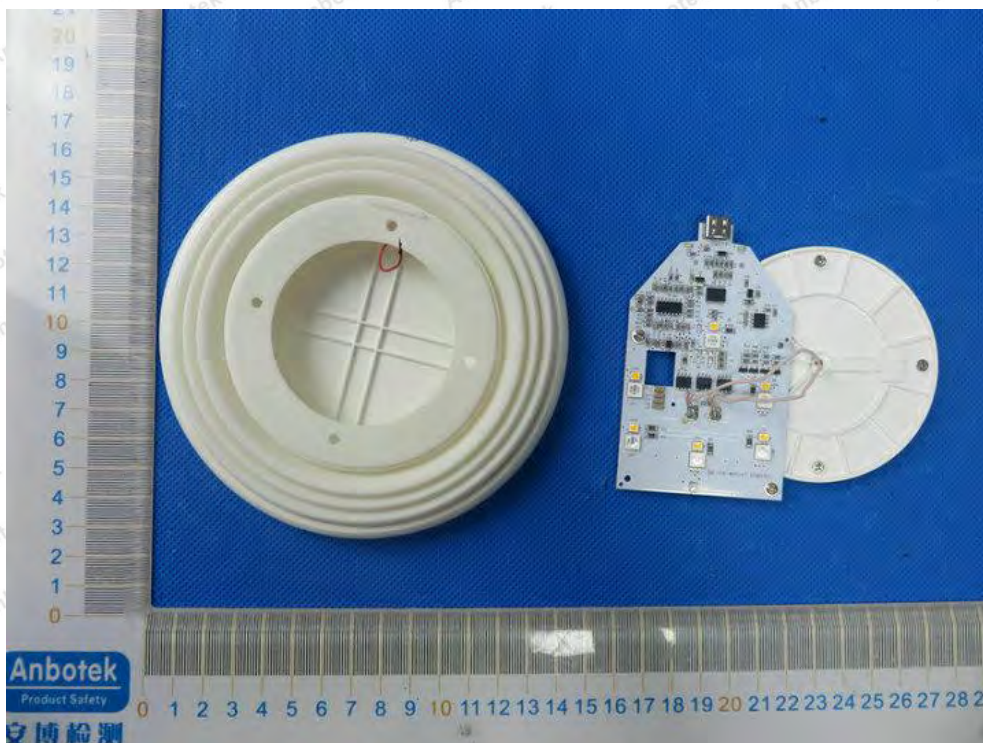
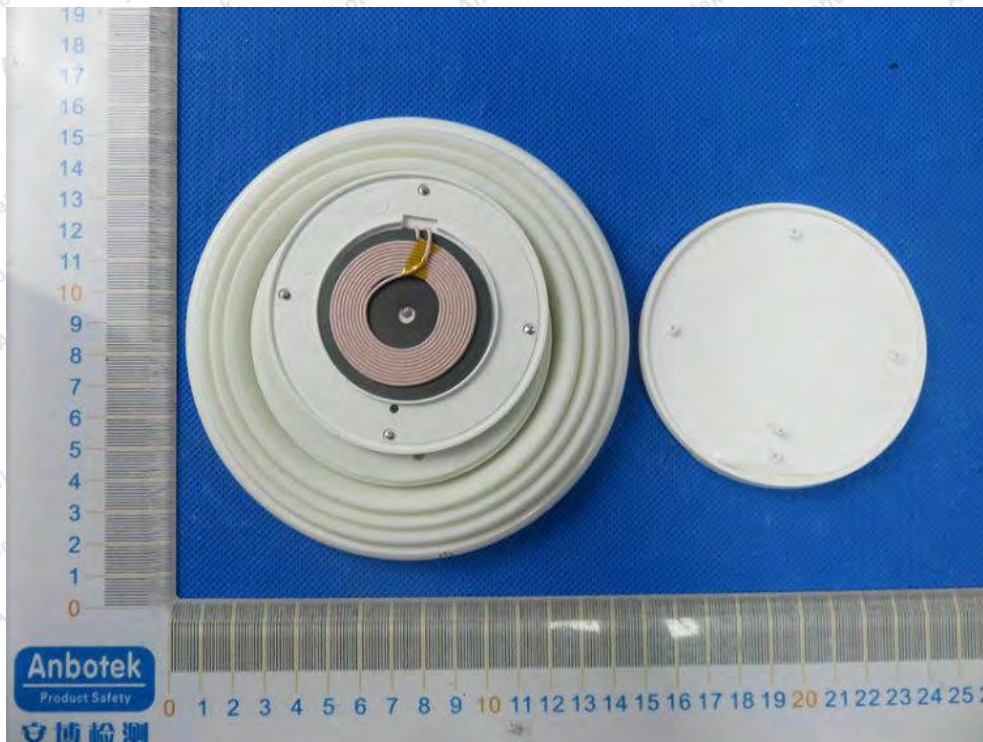


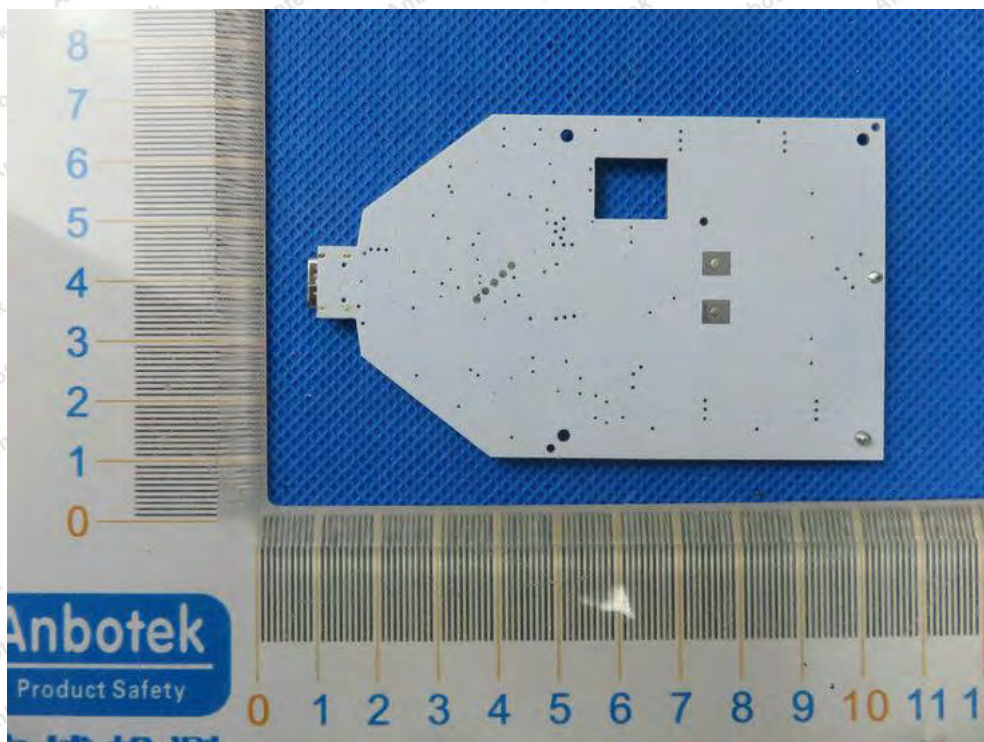
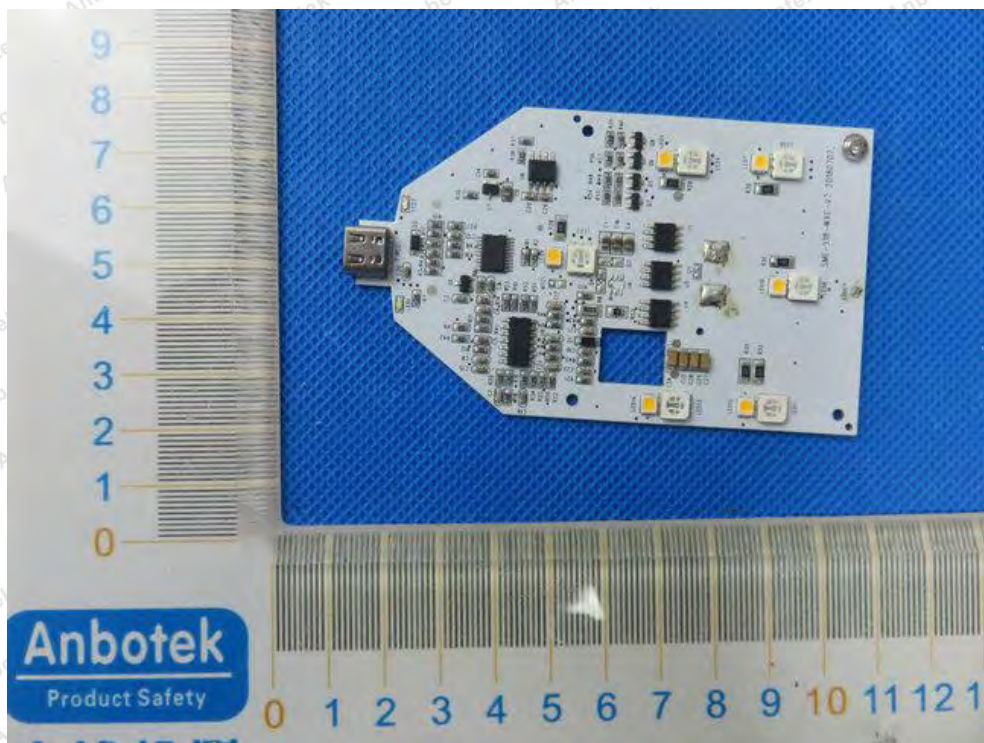


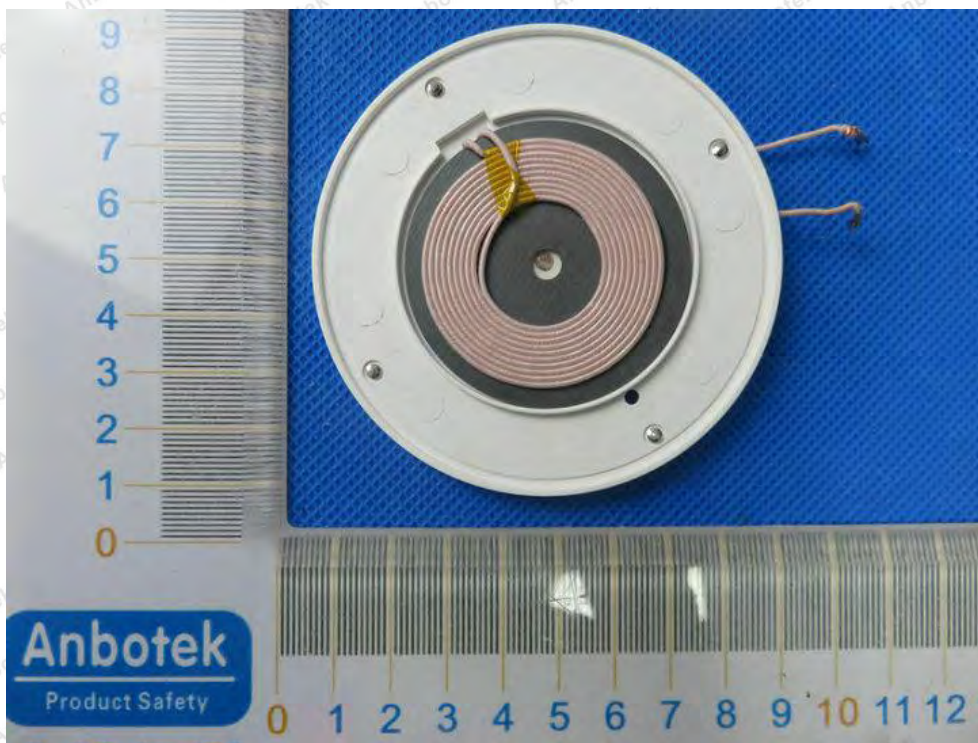




APPENDIX III -- INTERNAL PHOTOGRAPH







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