

FCC TEST REPORT

Client Name : TELEPHONE EST (HK) CO., LTD

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

Product Name : QI Wireless Charger

Date : Jun. 03, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : TELEPHONE EST (HK) CO., LTD
Manufacturer : Telephone Est Electronics Factory(zhong shan)
Product Name : QI Wireless Charger
Model No. : MOV5001
Trade Mark : GOMOVI
Rating(s) : Input: DC 5V, 2A
Output: DC 5V, 1A

Test Standard(s) : **FCC Part15 Subpart C 2018, 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 Receipt
Date of Test

May 08, 2019
May 08~24, 2019

Prepared By



Oliay Yang
(Engineer / Oliay Yang)

Reviewer

Snowy Meng
(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang
(Manager / Sally Zhang)

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, Lianfeng Road, Xiaolan Town, Zhongshan City, Guangdong, China
Factory	:	Telephone Est Electronics Factory(zhong shan)
Address	:	No.2, Heyuan, Lianfeng Road, Xiaolan Town, Zhongshan City, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	QI Wireless Charger
Model No.	:	MOV5001
Trade Mark	:	GOMOVI
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Product Description	Operation Frequency:	110.1-205KHz
	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	:	Manufacturer: Samsung M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: 100-240V~ 50-60Hz, 0.35A Output: DC 5V, 2A
Mobile Phone	:	iPhone

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	Full load, wireless charger module

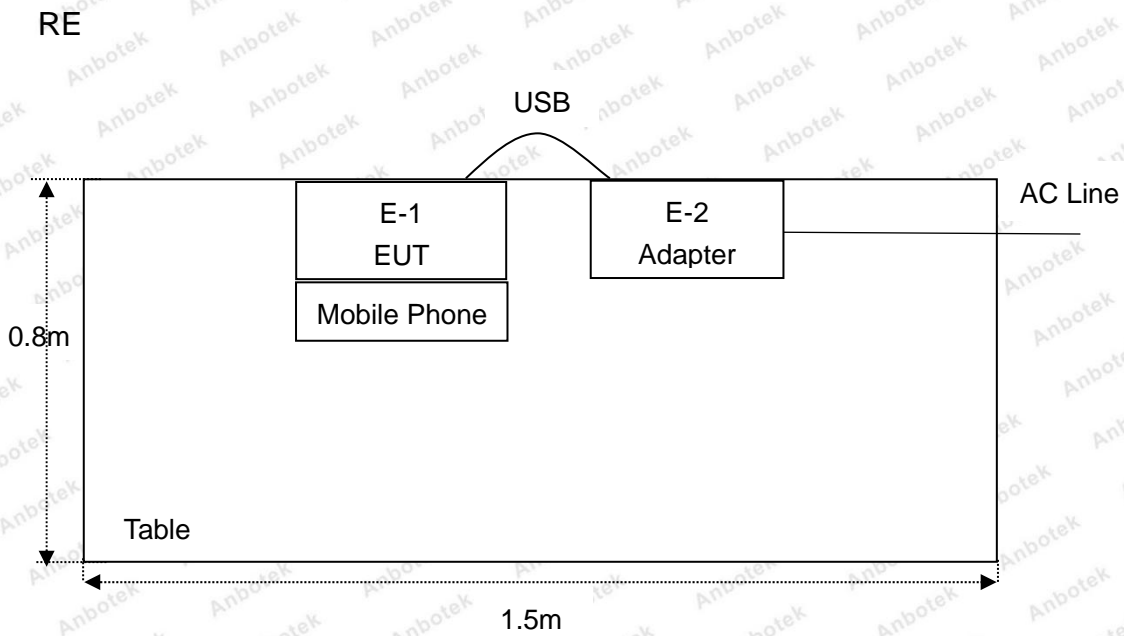
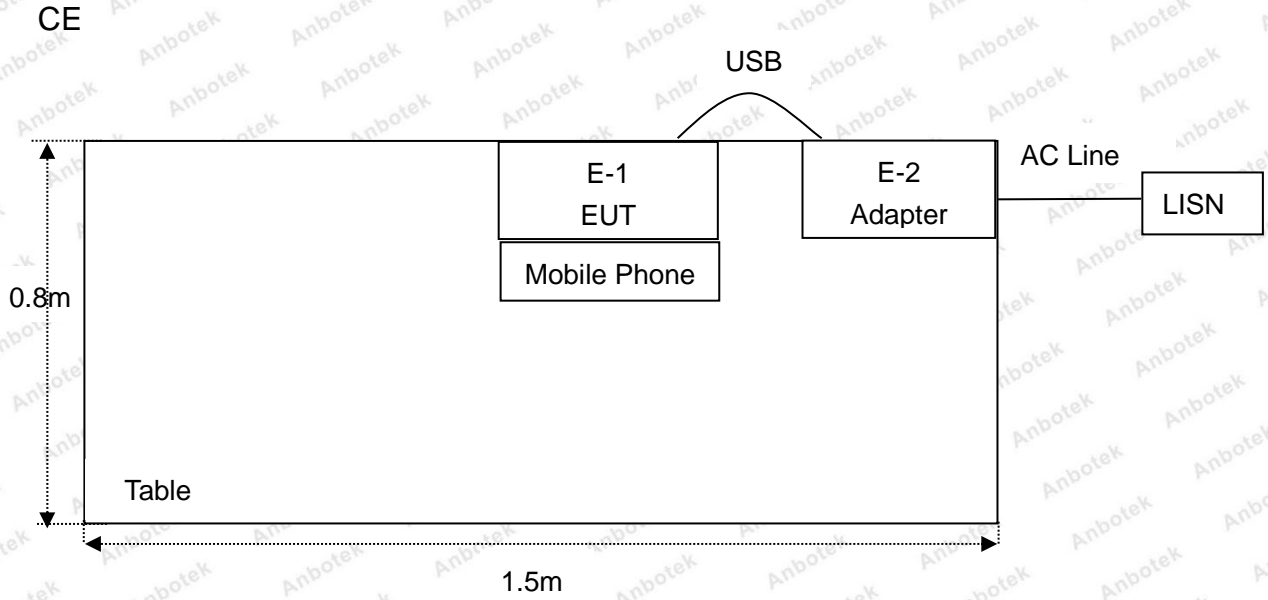
For Conducted Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

For Radiated Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

Note: (1)Test channel is 0.1259MHz.

(2)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) was recorded in the report.

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. 05, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	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. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year

1.7. Measurement Uncertainty

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

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

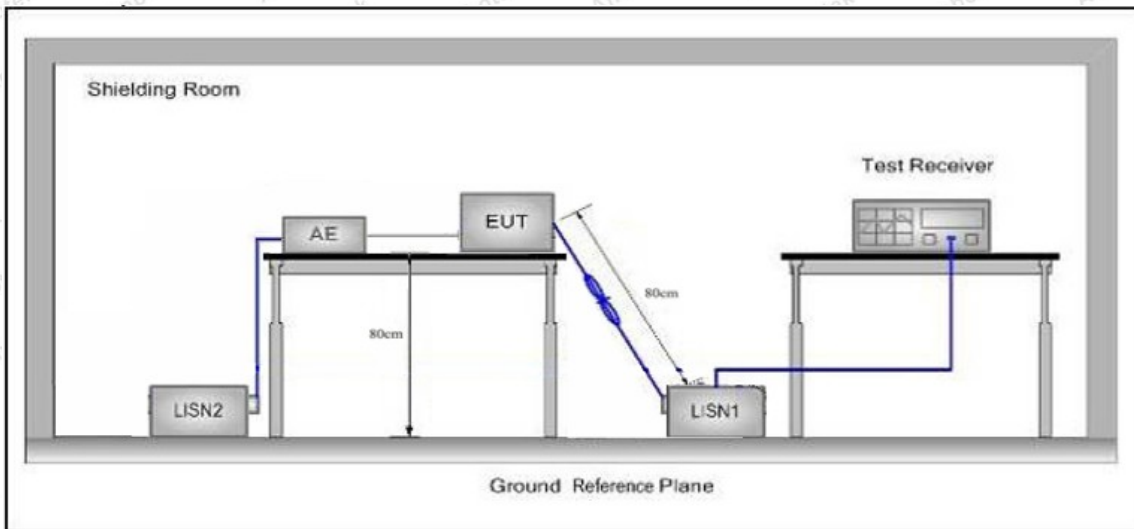
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

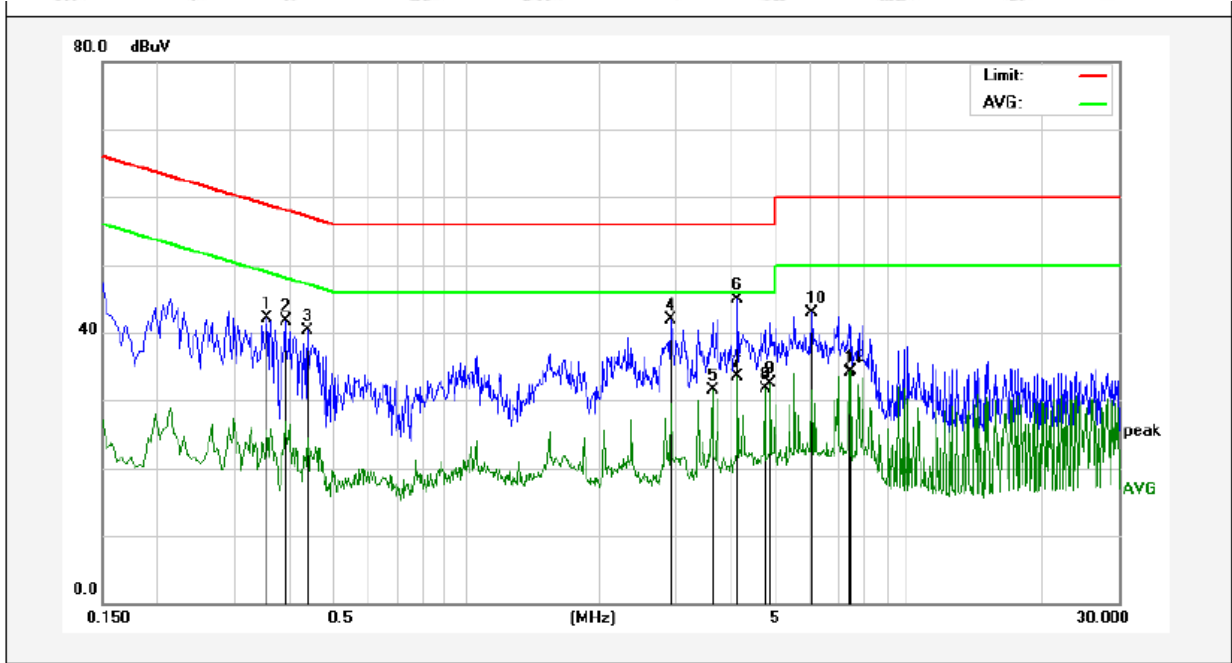
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

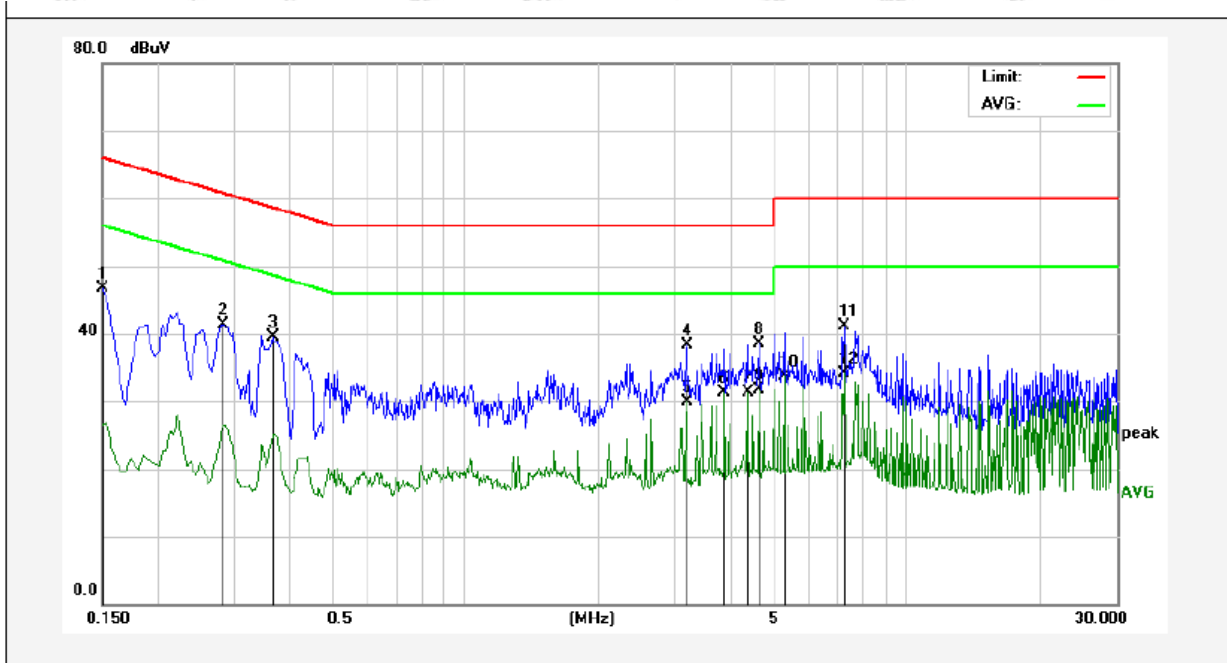
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3540	22.16	19.91	42.07	58.87	-16.80	QP	
2	0.3899	21.73	19.93	41.66	58.06	-16.40	QP	
3	0.4380	20.38	19.95	40.33	57.10	-16.77	QP	
4	2.9100	21.83	20.16	41.99	56.00	-14.01	QP	
5	3.6060	11.38	20.17	31.55	46.00	-14.45	AVG	
6	4.1220	24.64	20.18	44.82	56.00	-11.18	QP	
7	4.1220	13.41	20.18	33.59	46.00	-12.41	AVG	
8	4.7580	11.49	20.20	31.69	46.00	-14.31	AVG	
9	4.8940	12.39	20.20	32.59	46.00	-13.41	AVG	
10	6.0820	22.71	20.24	42.95	60.00	-17.05	QP	
11	7.4020	13.83	20.27	34.10	50.00	-15.90	AVG	
12	7.4700	14.03	20.27	34.30	50.00	-15.70	AVG	

Conducted Emission Test Data

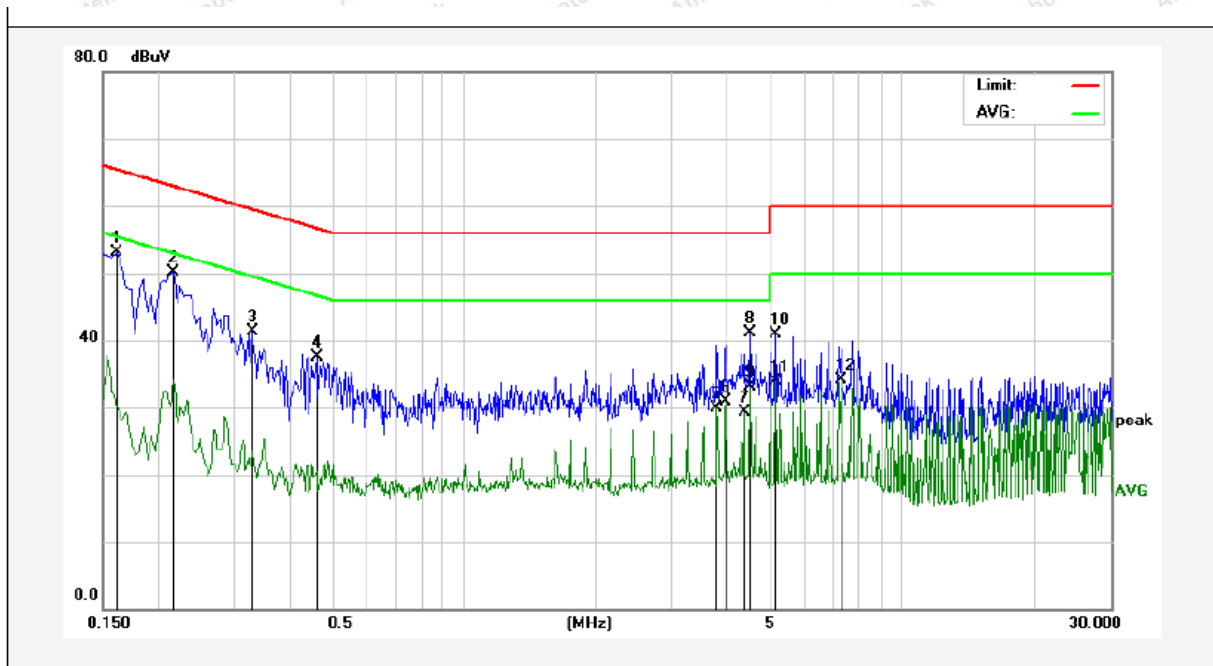
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit dBUV	Over Limit (dB)	Detector	Remark
1	0.1500	26.76	19.90	46.66	65.99	-19.33	QP	
2	0.2819	21.48	19.89	41.37	60.76	-19.39	QP	
3	0.3660	19.65	19.92	39.57	58.59	-19.02	QP	
4	3.1740	18.13	20.16	38.29	56.00	-17.71	QP	
5	3.1740	9.76	20.16	29.92	46.00	-16.08	AVG	
6	3.8660	11.06	20.18	31.24	46.00	-14.76	AVG	
7	4.3820	11.16	20.19	31.35	46.00	-14.65	AVG	
8	4.6380	18.35	20.20	38.55	56.00	-17.45	QP	
9	4.6380	11.41	20.20	31.61	46.00	-14.39	AVG	
10	5.2900	13.44	20.21	33.65	50.00	-16.35	AVG	
11	7.2140	20.89	20.27	41.16	60.00	-18.84	QP	
12	7.2140	13.76	20.27	34.03	50.00	-15.97	AVG	

Conducted Emission Test Data

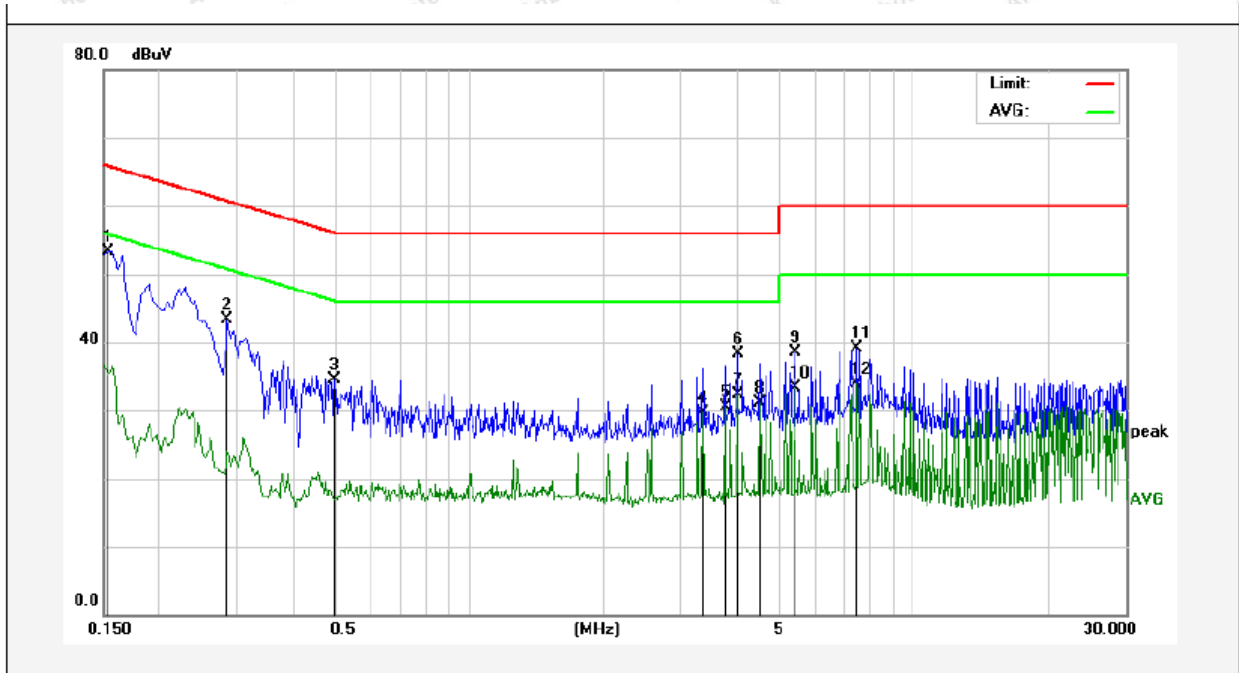
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1620	33.20	19.90	53.10	65.36	-12.26	QP	
2	0.2180	30.30	19.90	50.20	62.89	-12.69	QP	
3	0.3300	21.50	19.90	41.40	59.45	-18.05	QP	
4	0.4620	17.47	19.96	37.43	56.66	-19.23	QP	
5	3.7980	9.71	20.18	29.89	46.00	-16.11	AVG	
6	3.9660	10.72	20.18	30.90	46.00	-15.10	AVG	
7	4.3780	9.21	20.19	29.40	46.00	-16.60	AVG	
8	4.5180	20.96	20.19	41.15	56.00	-14.85	QP	
9	4.5180	12.86	20.19	33.05	46.00	-12.95	AVG	
10	5.1500	20.62	20.21	40.83	60.00	-19.17	QP	
11	5.1500	13.63	20.21	33.84	50.00	-16.16	AVG	
12	7.2820	13.92	20.27	34.19	50.00	-15.81	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	33.47	19.90	53.37	65.78	-12.41	QP	
2	0.2860	23.46	19.89	43.35	60.64	-17.29	QP	
3	0.4980	14.43	19.98	34.41	56.03	-21.62	QP	
4	3.3500	9.47	20.17	29.64	46.00	-16.36	AVG	
5	3.7660	10.38	20.18	30.56	46.00	-15.44	AVG	
6	4.0180	18.05	20.18	38.23	56.00	-17.77	QP	
7	4.0180	12.16	20.18	32.34	46.00	-13.66	AVG	
8	4.5180	10.95	20.19	31.14	46.00	-14.86	AVG	
9	5.4100	18.36	20.22	38.58	60.00	-21.42	QP	
10	5.4100	13.04	20.22	33.26	50.00	-16.74	AVG	
11	7.4700	18.90	20.27	39.17	60.00	-20.83	QP	
12	7.4700	13.55	20.27	33.82	50.00	-16.18	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

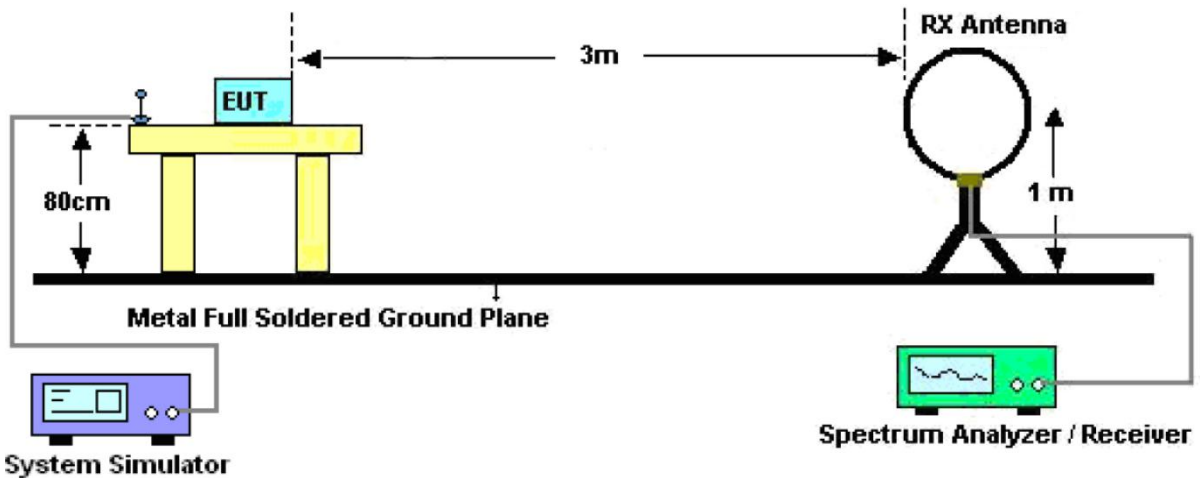


Figure 1. Below 30MHz

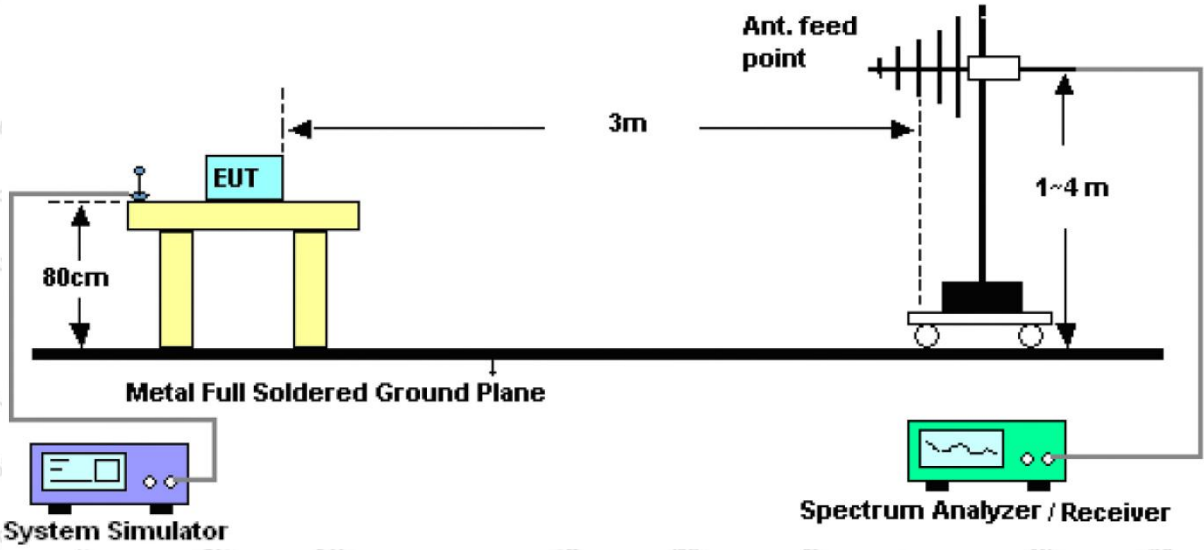


Figure 2. 30MHz to 1GHz

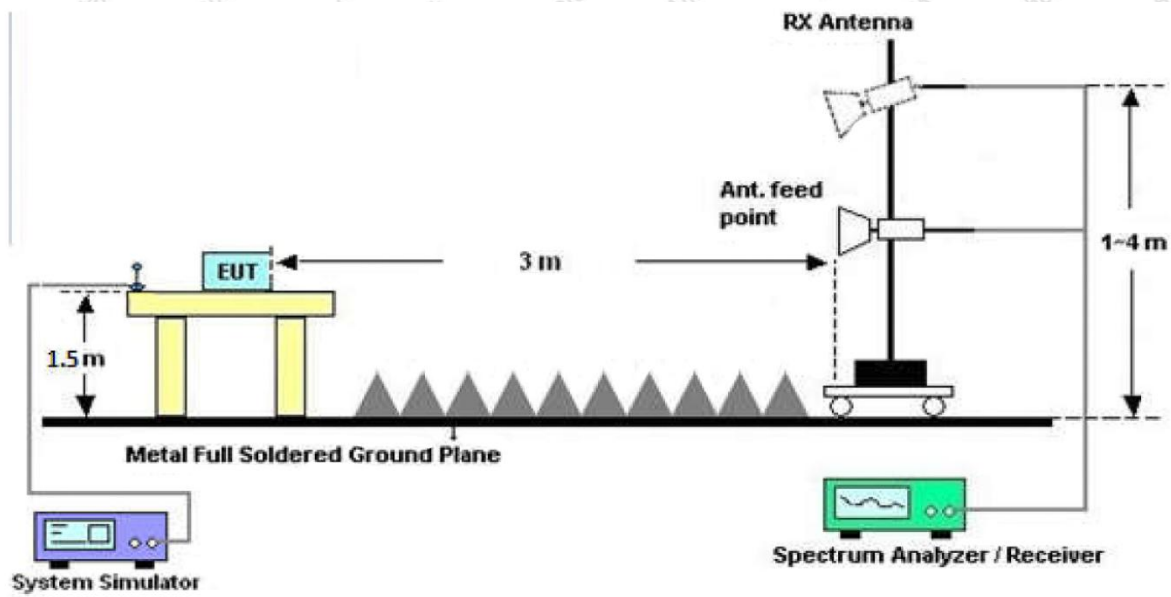


Figure 3. Above 1 GHz

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

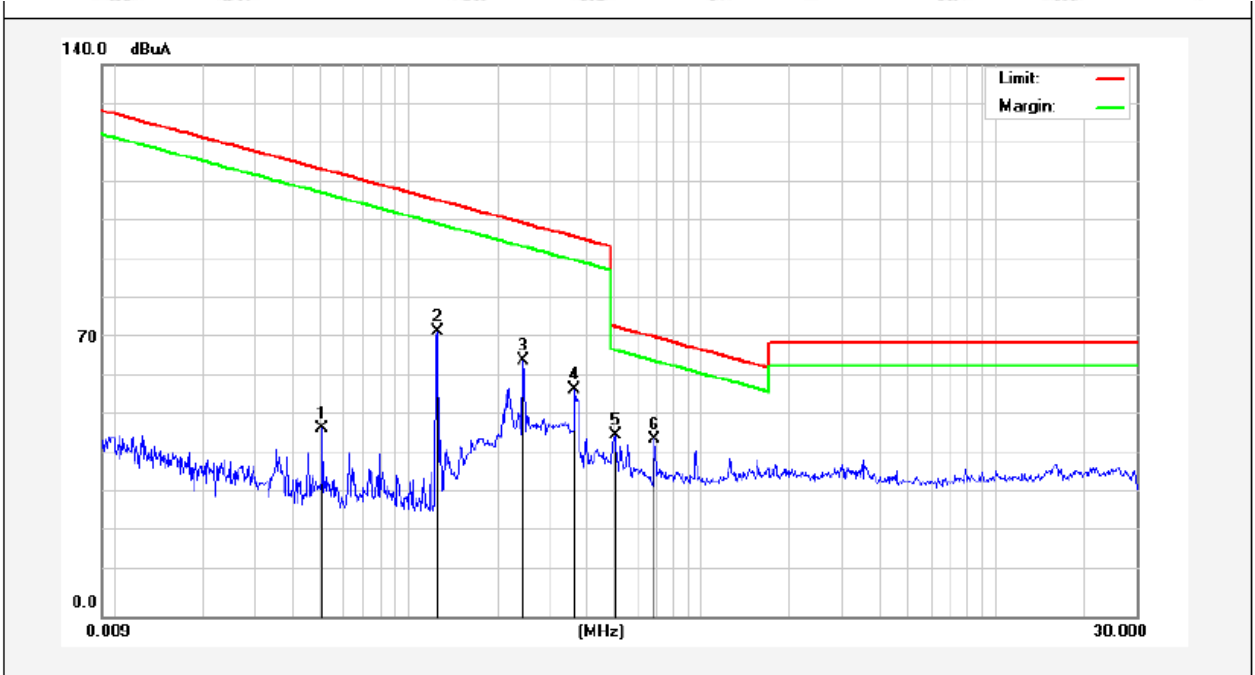
PASS

Note: The data is in TX mode, and this is the worst mode.

Test Results

(Between 9KHz – 30MHz)

Job No.: SZAWW190508006-01
Standard: FCC PART15 C_3m **Power Source:** AC 120V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 21.7°C/54%RH
Test Mode: Mode 1 **Distance:** 3m

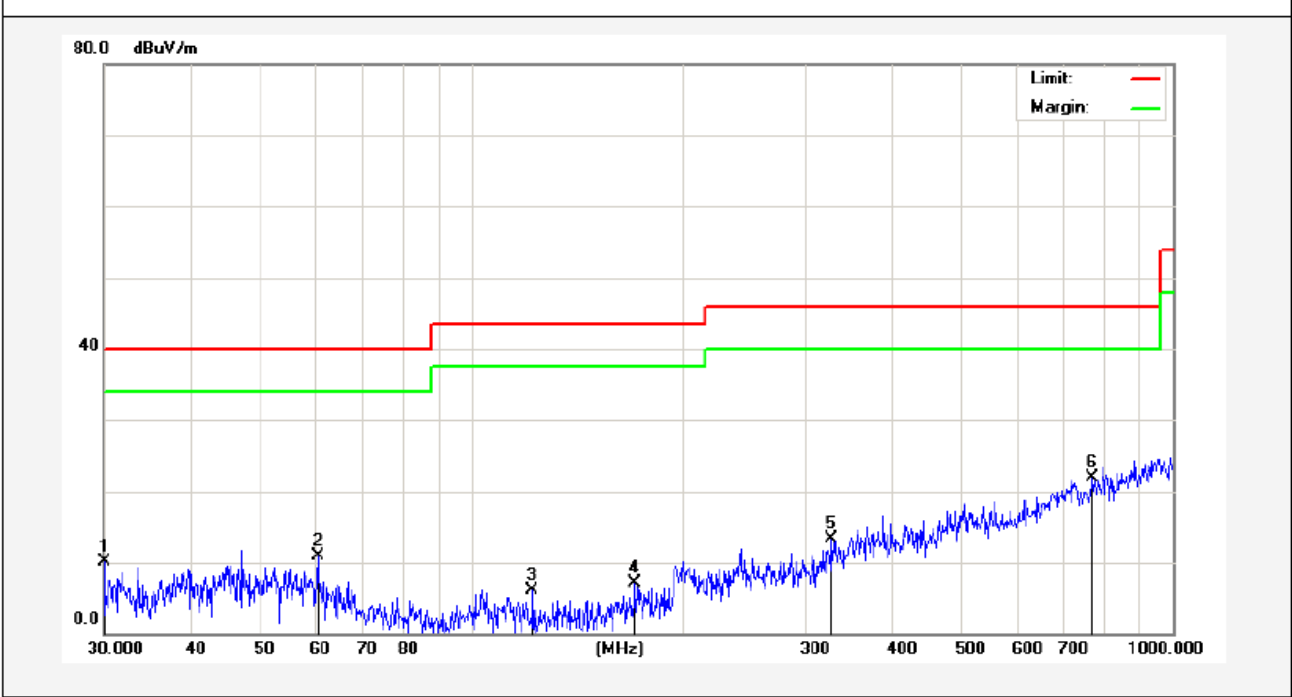


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0509	32.58	19.28	2.53	0	54.39	133.36	-78.97	Peak	324
0.0509	25.91	19.28	2.53	0	47.72	113.36	-65.64	AV	324
0.1259	59.68	19.30	2.54	0	81.52	125.54	-44.02	Peak	82
0.1259	50.27	19.30	2.54	0	72.11	105.54	-33.43	AV	82
0.2459	52.45	19.30	2.54	0	74.29	119.75	-45.46	Peak	143
0.2459	43.22	19.30	2.54	0	65.06	99.75	-34.69	AV	143
0.3664	44.25	19.53	2.59	0	66.37	116.31	-49.94	Peak	253
0.3664	35.29	19.53	2.59	0	57.41	96.31	-38.90	AV	253
0.5060	24.04	19.53	2.59	0	46.16	73.52	-27.36	QP	157
0.6895	22.88	19.53	2.59	0	45.00	70.83	-25.83	QP	238

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.

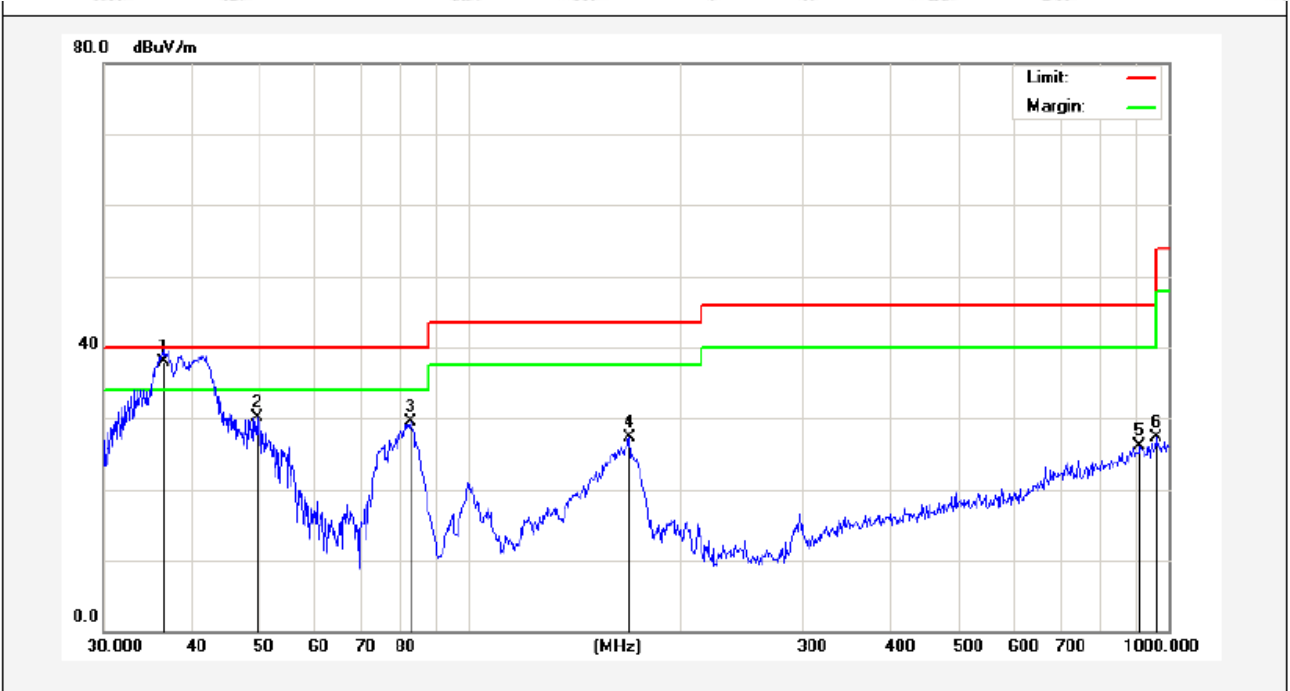
(Between 30MHz –1000 MHz)

Job No.:	SZAWW190508006-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.7°C/51%RH
Test Mode:	Mode 1	Distance:	3m



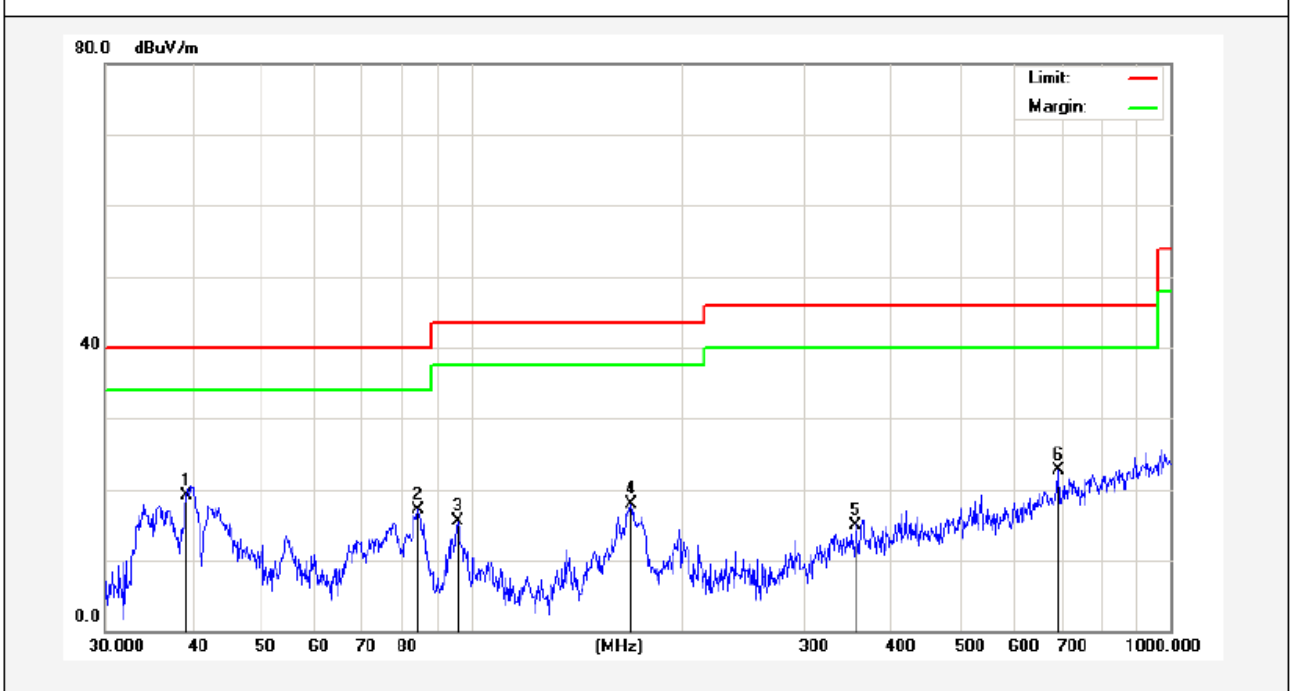
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	29.03	-18.95	10.08	40.00	-29.92	QP	300	0	
2	60.4919	29.46	-18.61	10.85	40.00	-29.15	QP	300	54	
3	122.4040	29.59	-23.49	6.10	43.50	-37.40	QP	300	121	
4	171.3926	28.56	-21.53	7.03	43.50	-36.47	QP	300	228	
5	326.7395	29.23	-15.90	13.33	46.00	-32.67	QP	300	300	
6	768.7481	30.07	-8.19	21.88	46.00	-24.12	QP	300	360	

Job No.: SZAWW190508006-01 **Polarization:** Vertical
Standard: FCC PART15 C_3m **Power Source:** AC 120V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 23.7°C/51%RH
Test Mode: Mode 1 **Distance:** 3m



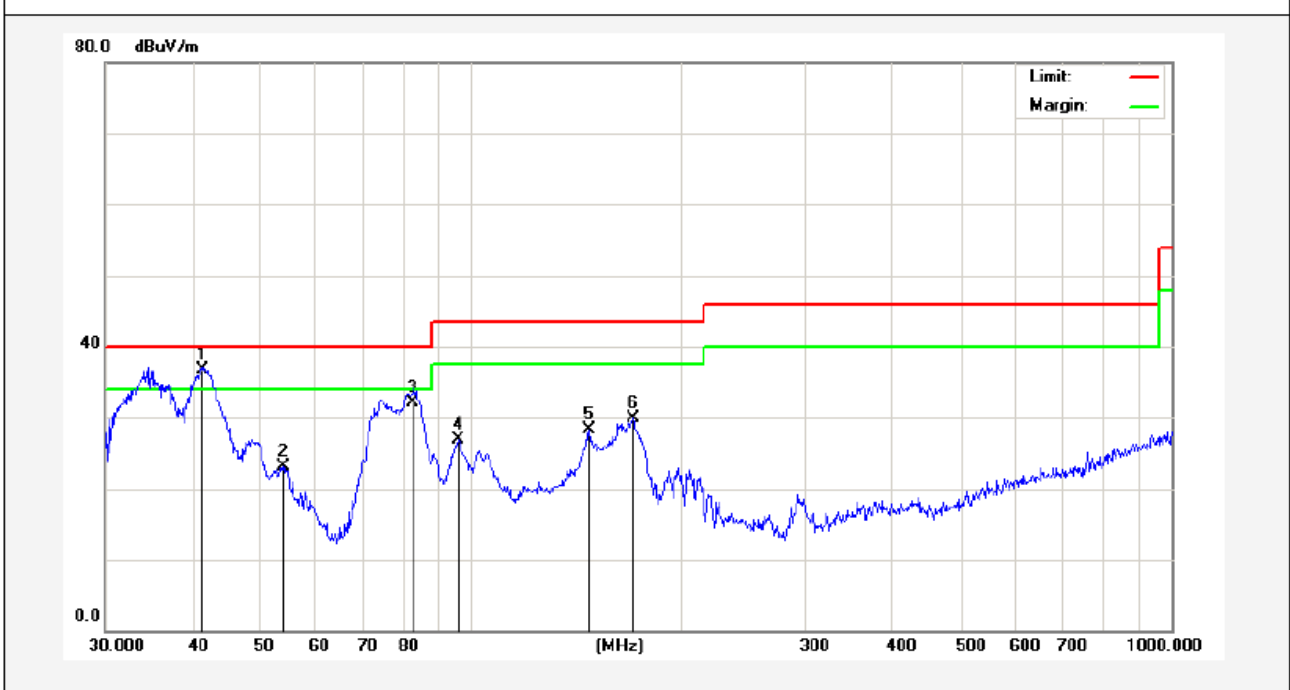
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.7475	55.31	-17.43	37.88	40.00	-2.12	QP	300	0	
2	49.7068	46.90	-16.75	30.15	40.00	-9.85	QP	300	64	
3	82.3588	50.29	-20.80	29.49	40.00	-10.51	QP	300	124	
4	169.5990	45.88	-18.52	27.36	43.50	-16.14	QP	300	199	
5	909.6667	30.87	-4.81	26.06	46.00	-19.94	QP	300	320	
6	958.7943	31.46	-4.13	27.33	46.00	-18.67	QP	300	360	

Job No.:	SZAWW190508006-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.7°C/51%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	36.88	-17.79	19.09	40.00	-20.91	QP	300	0	
2	84.1100	40.37	-23.18	17.19	40.00	-22.81	QP	300	64	
3	95.7622	38.70	-23.21	15.49	43.50	-28.01	QP	300	127	
4	169.5990	39.38	-21.56	17.82	43.50	-25.68	QP	300	144	
5	355.4273	29.91	-14.91	15.00	46.00	-31.00	QP	300	263	
6	691.9867	32.27	-9.52	22.75	46.00	-23.25	QP	300	360	

Job No.:	SZAWW190508006-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.7°C/51%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	41.3270	53.22	-16.56	36.66	40.00	-3.34	QP	300	0	
2	53.8818	40.14	-16.98	23.16	40.00	-16.84	QP	300	65	
3	82.6482	52.85	-20.69	32.16	40.00	-7.84	QP	300	122	
4	95.7622	44.05	-17.21	26.84	43.50	-16.66	QP	300	222	
5	147.4036	47.66	-19.38	28.28	43.50	-15.22	QP	300	236	
6	170.1948	48.34	-18.48	29.86	43.50	-13.64	QP	300	360	

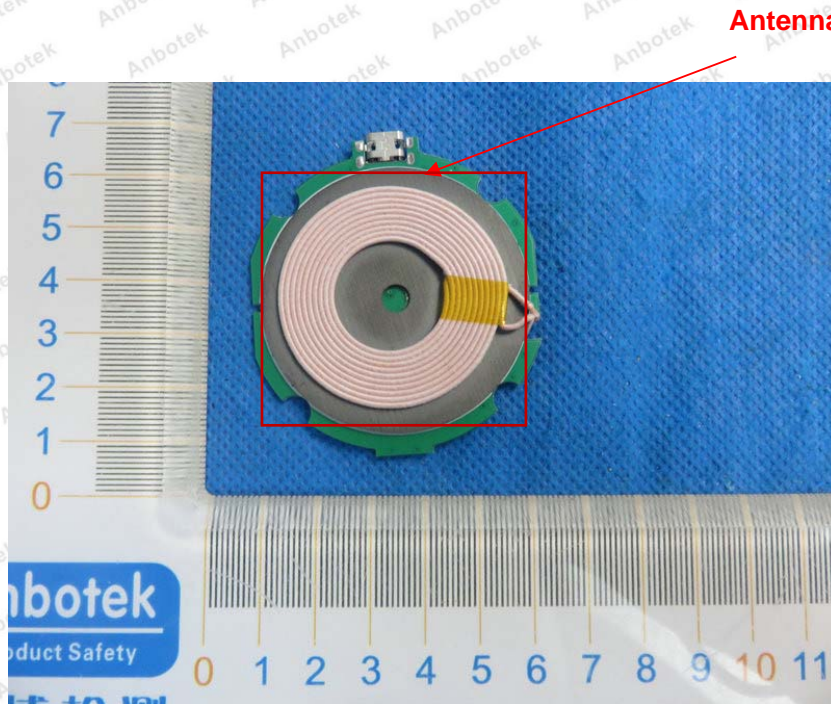
5. Antenna Requirement

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 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.

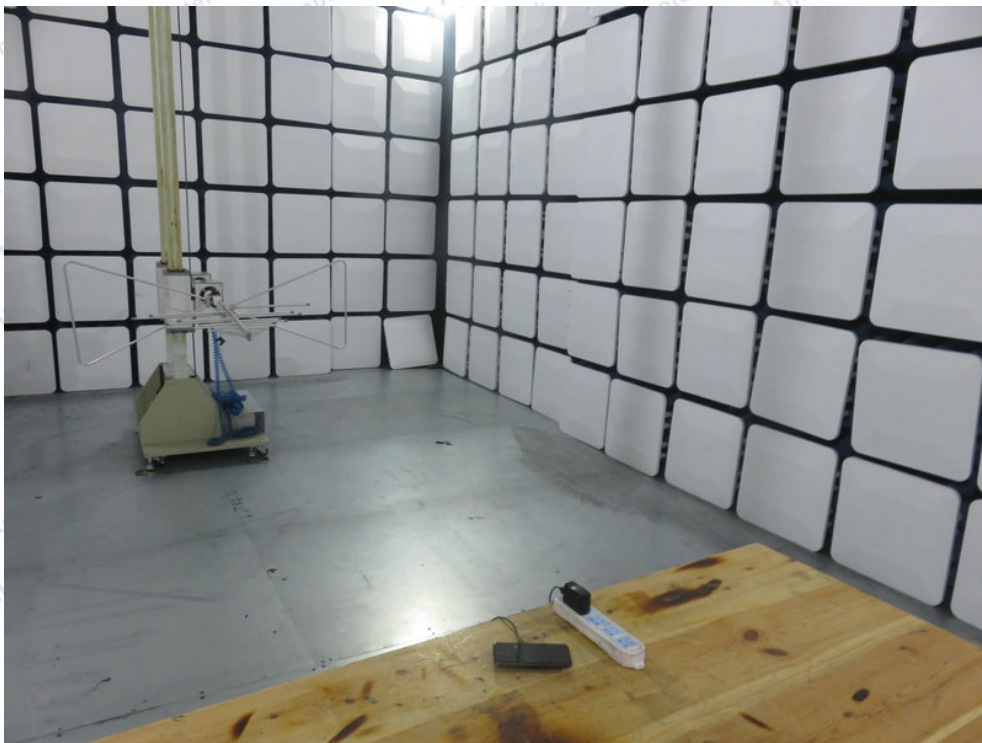


APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



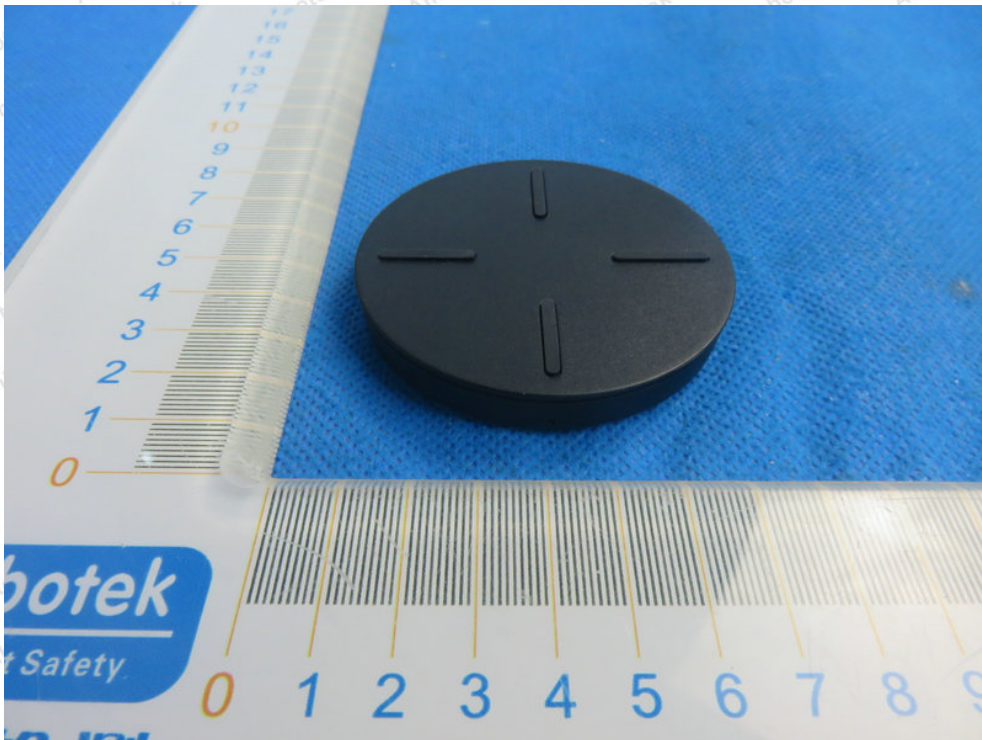
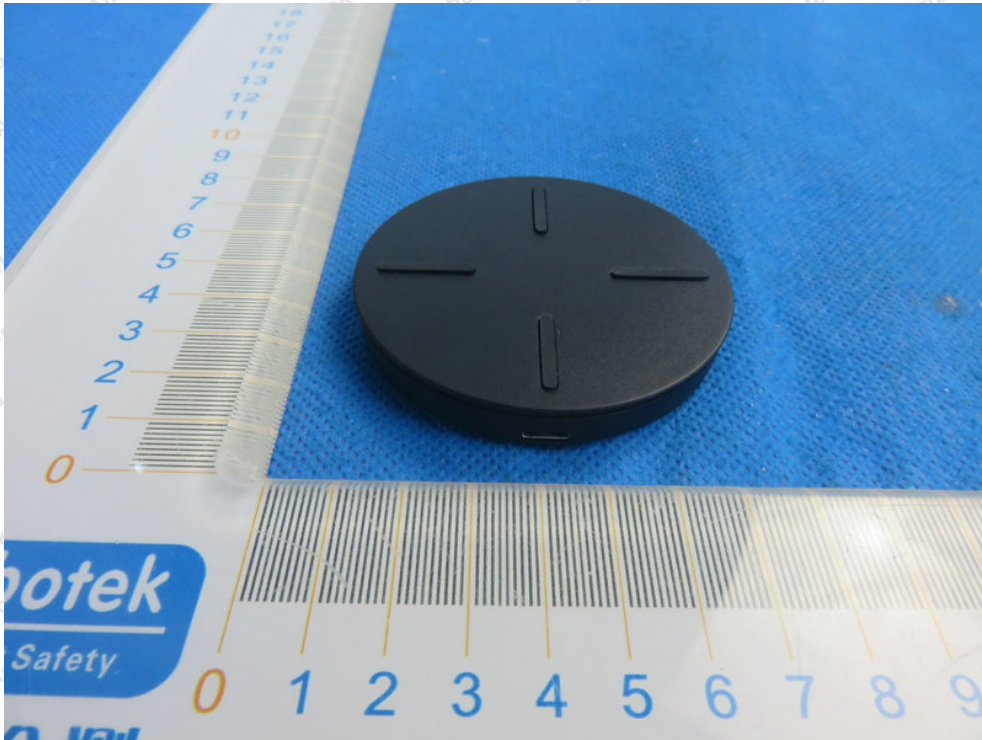
Photo of Radiation Emission Test

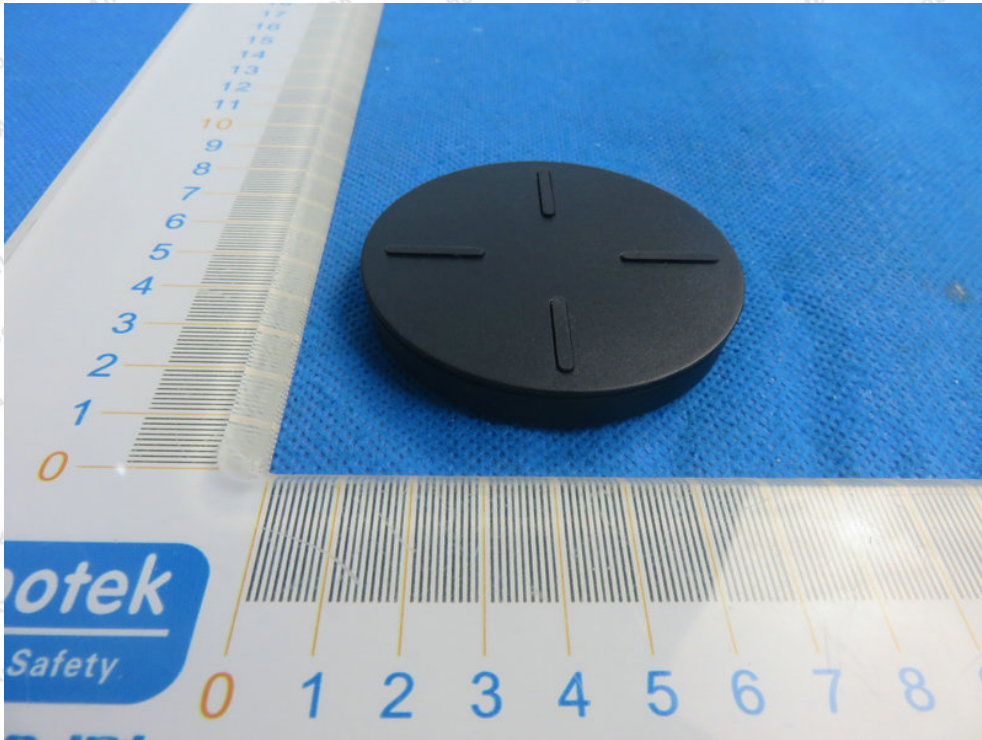




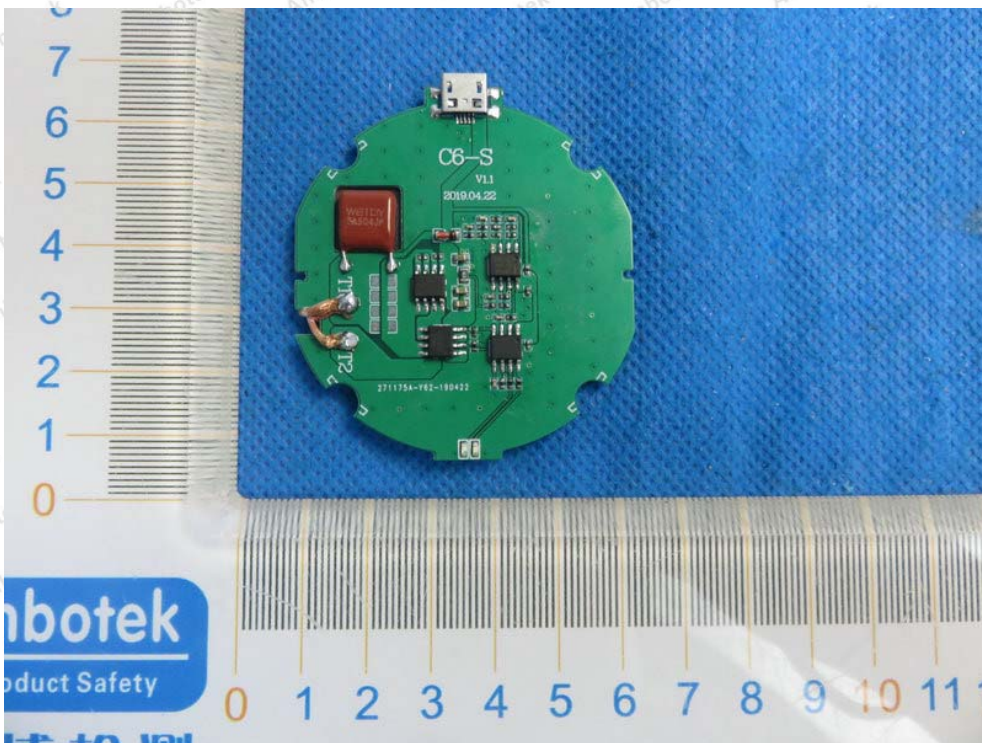
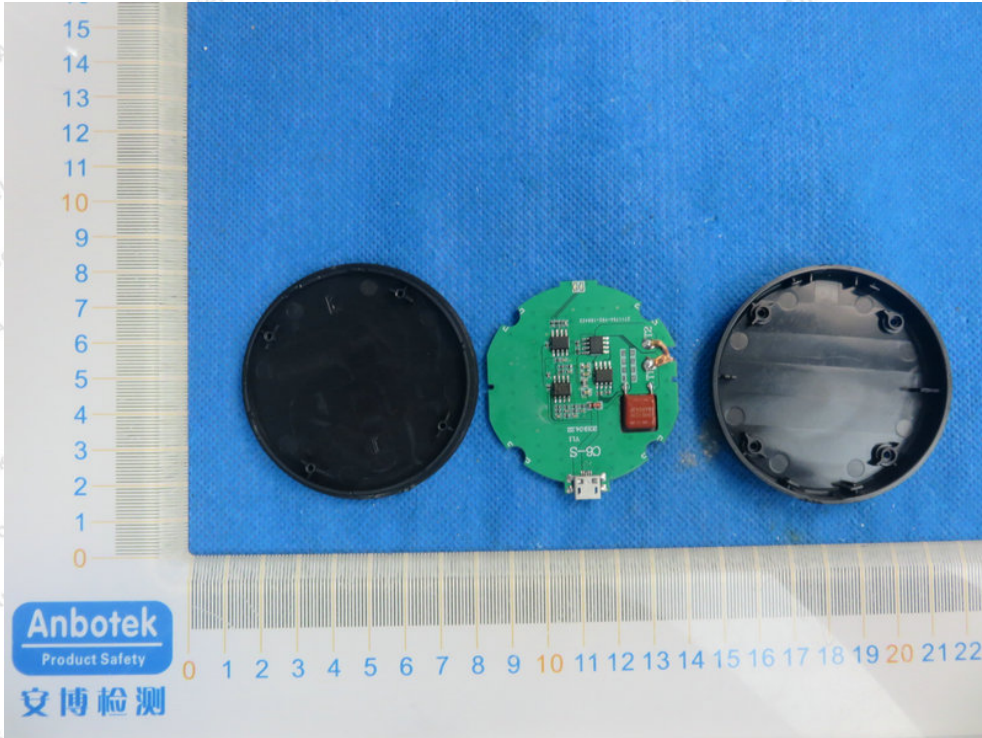
APPENDIX II -- EXTERNAL PHOTOGRAPH

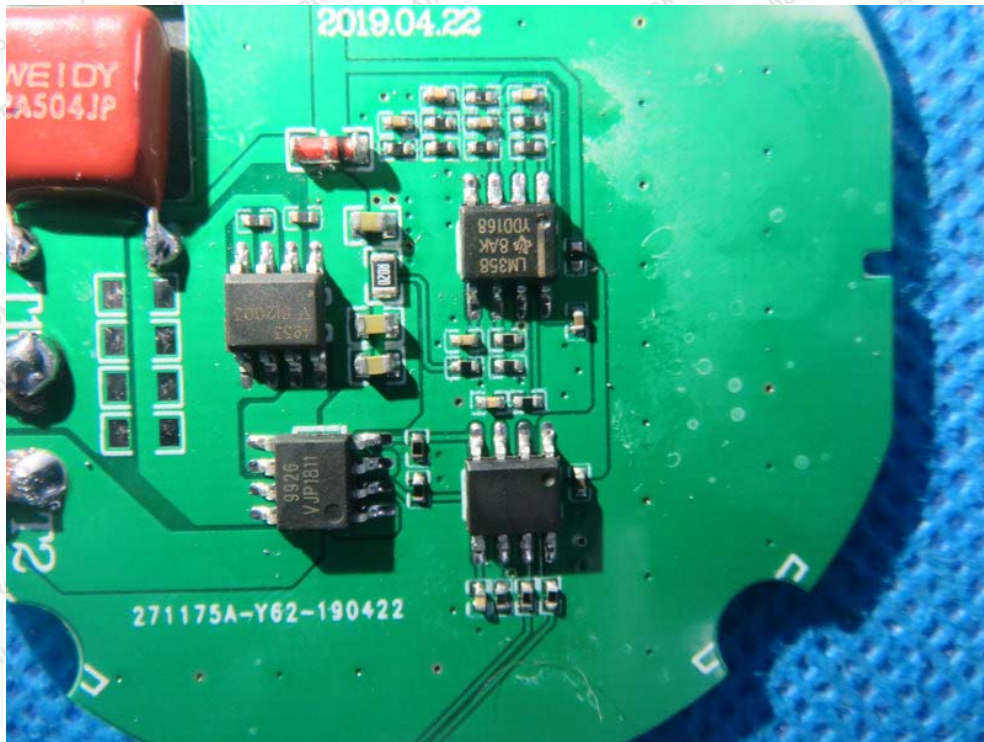
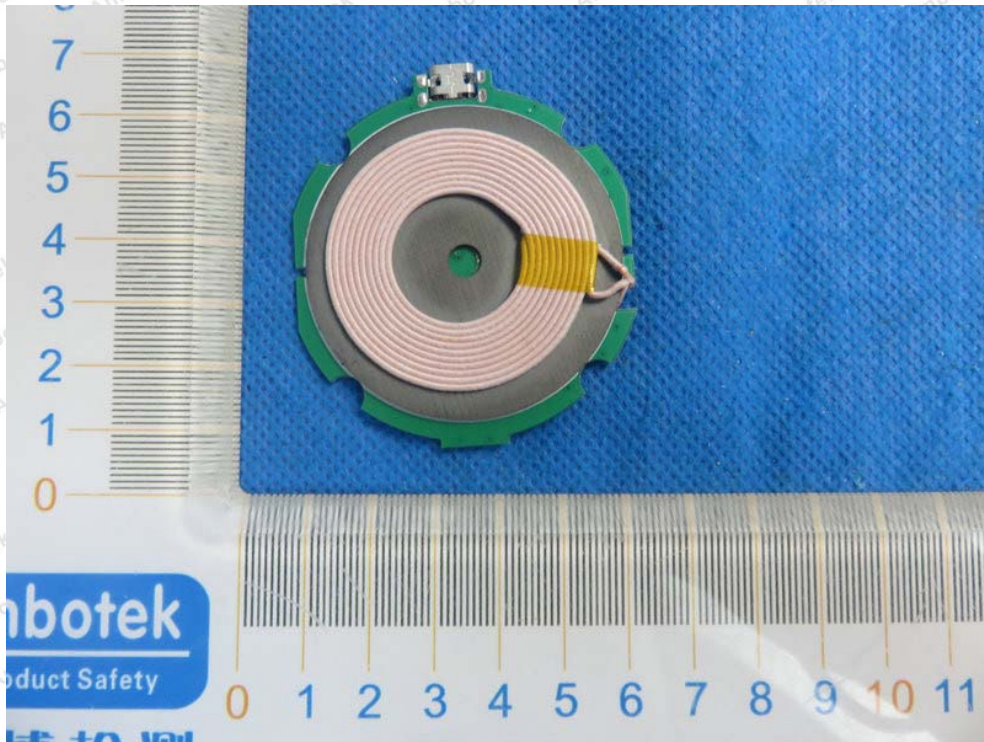






APPENDIX III -- INTERNAL PHOTOGRAPH





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