FCC TEST REPORT

For

Top-tech Technologies Co., Limited

Wireless Power bank

Model No.: TT019, J14

Prepared For	:	Top-tech Technologies Co., Limited
Address	:	B1 Building, Xiangyu Industrial Park, NO46 Fumin Road, Jinxiaotang, Fenggan Town, Dongguan City, Guangdong Province, China
Prepared By	:	Shenzhen Anbotek Compliance Laboratory Limited
Address	:	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102 Tel: (86) 755-26066440 Fax: (86) 755-26014772
Report Number	:	SZAWW180523004-01
Date of Test	:	May 23~31, 2018
Date of Report	:	May 31, 2018

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TEST REPORT

Applicant	:	Top-tech Technologies Co., Limited
Manufacturer	:	Dongguan DG-TIME Industry Co.LTD
Product Name	:	Wireless Power bank
Model No.	:	TT019, J14
Trade Mark	:	Top-tech
Rating(s)	:	Input: DC 5V, 2A; Output: DC 5V, 2.1A max (with DC 3.7V, 10000 mAh Battery inside) Wireless charging output: DC 5V, 1A

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 : : May 23~31, 2018

Prepared by : : Winkey Wang

(Tested Engineer / Winkey Wang)

Reviewer : : Tangcy. T.

(Project Manager / Tangcy. T)

Approved & Authorized Signer : : Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Top-tech Technologies Co., Limited
Address	:	B1 Building, Xiangyu Industrial Park, NO46 Fumin Road, Jinxiaotang, Fenggan Town, Dongguan City, Guangdong Province, China
Manufacturer	:	Dongguan DG-TIME Industry Co.LTD
Address	:	B1 Building, Xiangyu Industrial Park, NO46 Fumin Road, Jinxiaotang, Fenggan Town, Dongguan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Power bank	
Model No.	:	TT019, J14 (Note: All samples are the same except the model name different, so we prepare "TT019" for test only.)	
Trade Mark	:	Top-tech	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Product Description	:	Operation Frequency:	110-205KHz
		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	:	Manufacturer: ZTE M/N: STC-A2050I1000USBA-C S/N: 201202102100876 Input: 100-240V~50/60Hz 0.3A Output: DC 5V, 1000mA

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

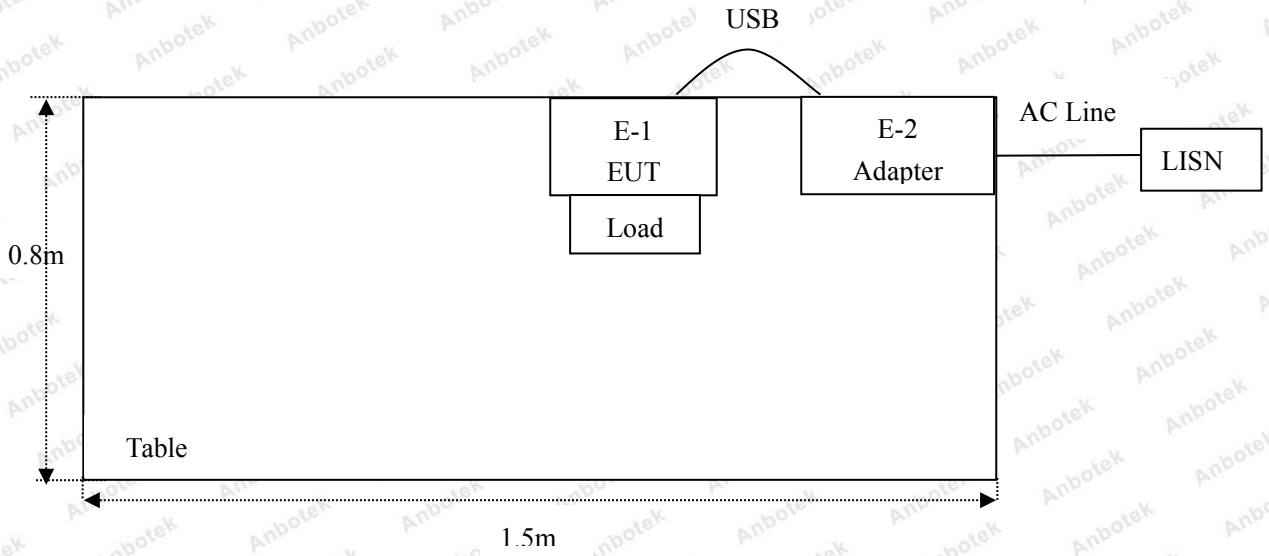
For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

1.5. List of channels

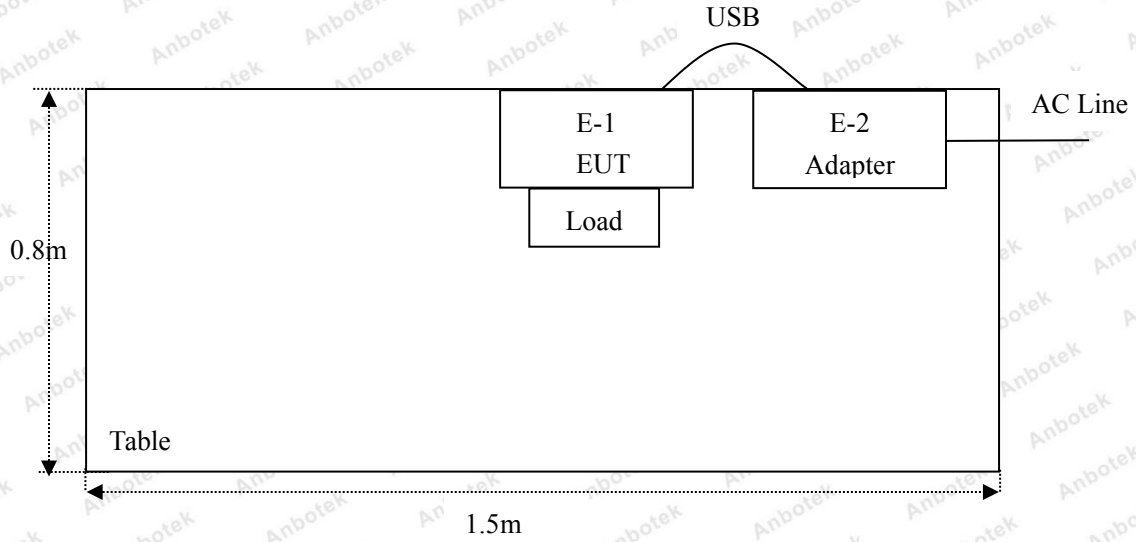
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	0.110	6	0.135	11	0.160	16	0.185
2	0.115	7	0.140	12	0.165	17	0.190
3	0.120	8	0.145	13	0.170	18	0.195
4	0.125	9	0.150	14	0.175	19	0.200
5	0.130	10	0.155	15	0.180	20	0.205

1.6. Description Of Test Setup

CE



RE



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	BK1G18G30 D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	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	Schewarzbeck	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-HWHS80 B	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 Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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

All Emissions tests were performed at

Shenzhen Anbotek 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

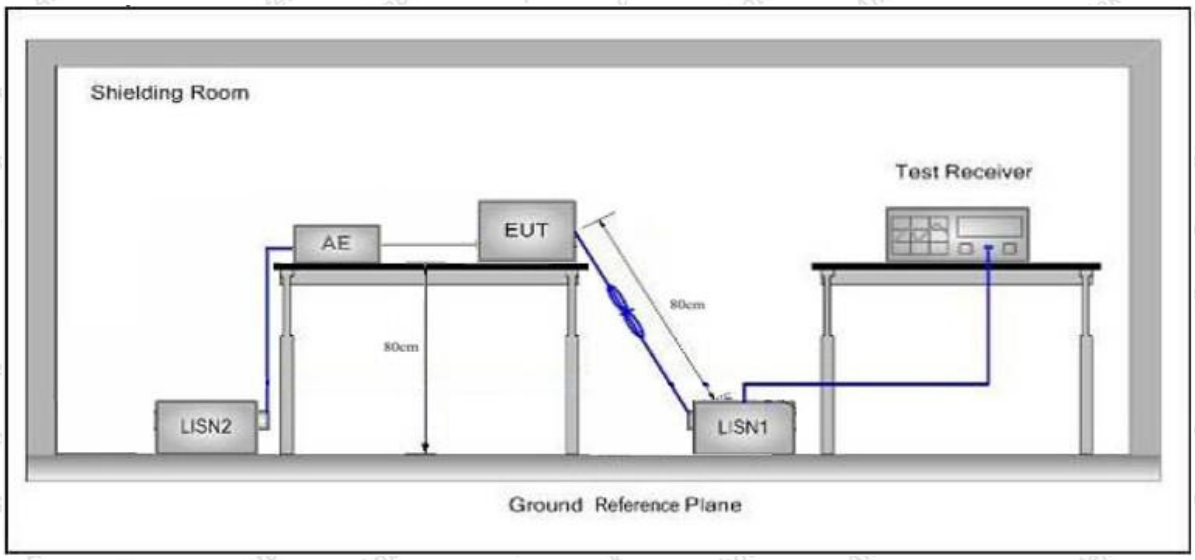
3. Conducted Emission Test

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.

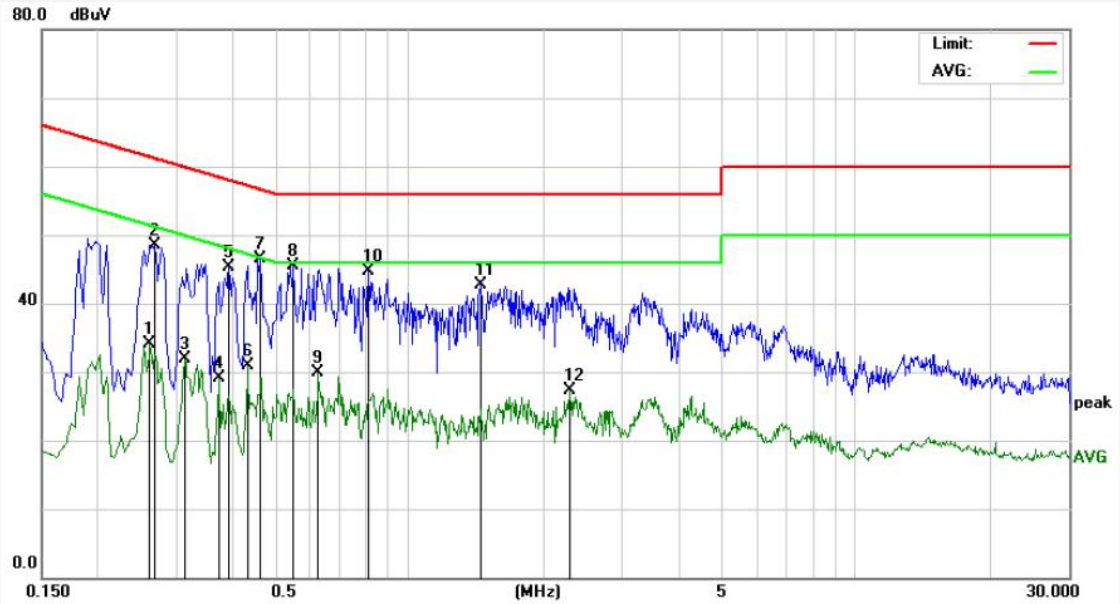
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

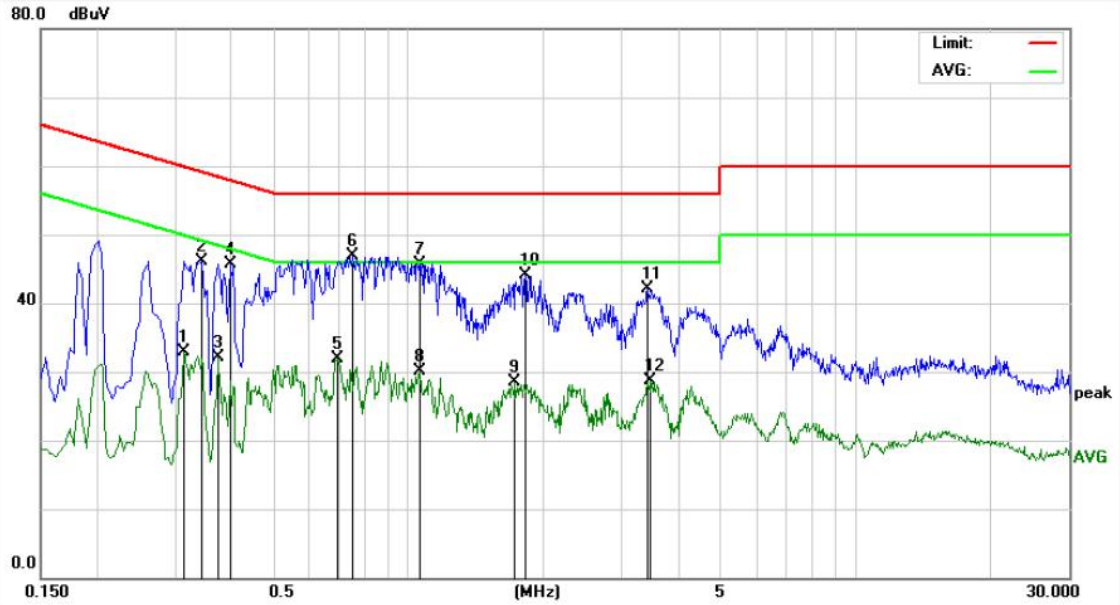
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2620	14.26	19.89	34.15	51.36	-17.21	AVG	
2	0.2700	28.55	19.89	48.44	61.12	-12.68	QP	
3	0.3140	11.93	19.90	31.83	49.86	-18.03	AVG	
4	0.3740	9.17	19.92	29.09	48.41	-19.32	AVG	
5	0.3940	25.41	19.93	45.34	57.98	-12.64	QP	
6	0.4340	10.89	19.95	30.84	47.18	-16.34	AVG	
7	0.4660	26.56	19.96	46.52	56.58	-10.06	QP	
8	0.5500	25.49	19.99	45.48	56.00	-10.52	QP	
9	0.6260	9.89	20.02	29.91	46.00	-16.09	AVG	
10	0.8100	24.65	20.07	44.72	56.00	-11.28	QP	
11	1.4420	22.58	20.13	42.71	56.00	-13.29	QP	
12	2.2940	7.15	20.15	27.30	46.00	-18.70	AVG	

Conducted Emission Test Data

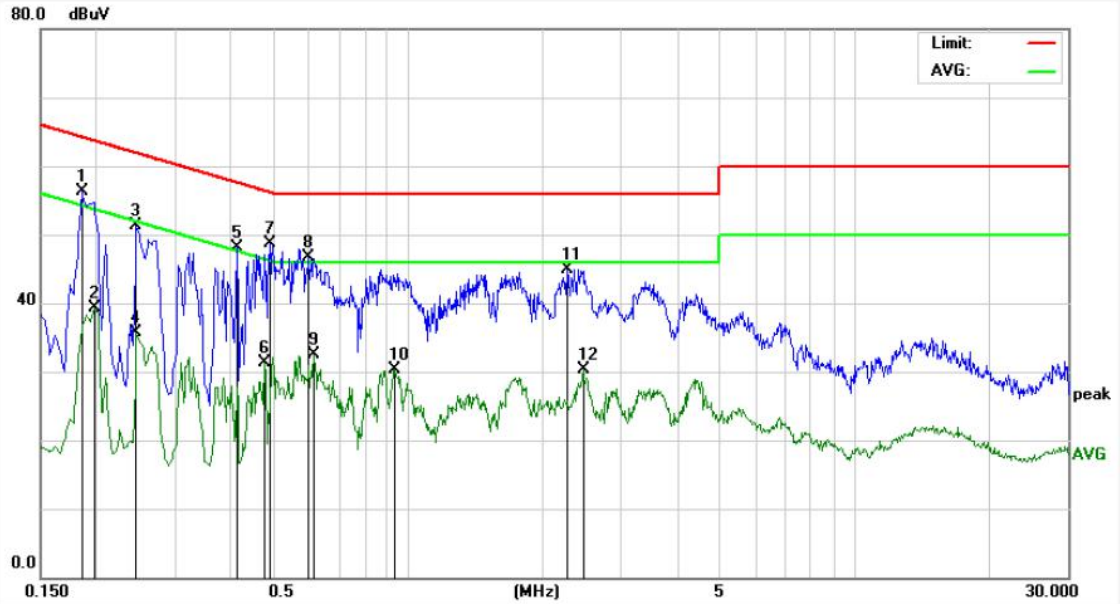
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3140	13.00	19.90	32.90	49.86	-16.96	AVG	
2	0.3460	26.28	19.91	46.19	59.06	-12.87	QP	
3	0.3740	12.12	19.92	32.04	48.41	-16.37	AVG	
4	0.3980	25.84	19.93	45.77	57.89	-12.12	QP	
5	0.6940	11.87	20.04	31.91	46.00	-14.09	AVG	
6	0.7500	26.77	20.05	46.82	56.00	-9.18	QP	
7	1.0620	25.57	20.12	45.69	56.00	-10.31	QP	
8	1.0620	9.94	20.12	30.06	46.00	-15.94	AVG	
9	1.7260	8.37	20.13	28.50	46.00	-17.50	AVG	
10	1.8220	23.90	20.14	44.04	56.00	-11.96	QP	
11	3.4340	21.84	20.17	42.01	56.00	-13.99	QP	
12	3.4740	8.53	20.17	28.70	46.00	-17.30	AVG	

Conducted Emission Test Data

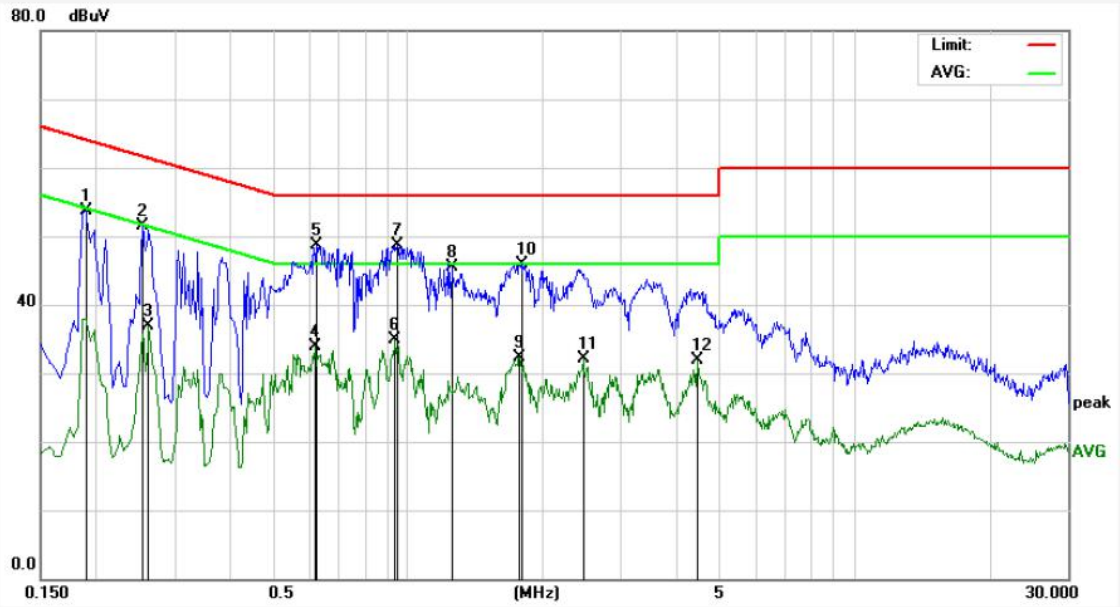
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1860	36.31	19.90	56.21	64.21	-8.00	QP	
2	0.1980	19.49	19.90	39.39	53.69	-14.30	AVG	
3	0.2460	31.49	19.89	51.38	61.89	-10.51	QP	
4	0.2460	15.74	19.89	35.63	51.89	-16.26	AVG	
5	0.4140	28.26	19.94	48.20	57.57	-9.37	QP	
6	0.4780	11.29	19.97	31.26	46.37	-15.11	AVG	
7	0.4900	28.73	19.98	48.71	56.17	-7.46	QP	
8	0.5980	26.72	20.01	46.73	56.00	-9.27	QP	
9	0.6140	12.49	20.01	32.50	46.00	-13.50	AVG	
10	0.9380	10.22	20.10	30.32	46.00	-15.68	AVG	
11	2.2780	24.76	20.15	44.91	56.00	-11.09	QP	
12	2.4660	10.20	20.15	30.35	46.00	-15.65	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.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1900	33.90	19.90	53.80	64.03	-10.23	QP	
2	0.2540	31.53	19.89	51.42	61.62	-10.20	QP	
3	0.2620	17.00	19.89	36.89	51.36	-14.47	AVG	
4	0.6180	13.80	20.02	33.82	46.00	-12.18	AVG	
5	0.6220	28.60	20.02	48.62	56.00	-7.38	QP	
6	0.9340	14.72	20.10	34.82	46.00	-11.18	AVG	
7	0.9460	28.52	20.11	48.63	56.00	-7.37	QP	
8	1.2540	25.36	20.13	45.49	56.00	-10.51	QP	
9	1.7740	12.13	20.14	32.27	46.00	-13.73	AVG	
10	1.7980	25.77	20.14	45.91	56.00	-10.09	QP	
11	2.4660	11.99	20.15	32.14	46.00	-13.86	AVG	
12	4.4380	11.81	20.19	32.00	46.00	-14.00	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

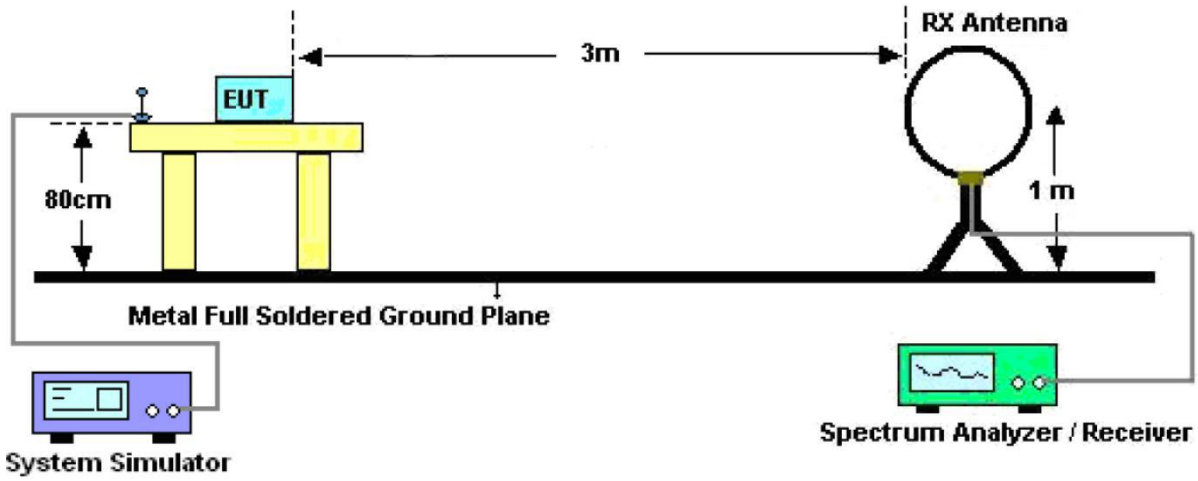


Figure 1. Below 30MHz

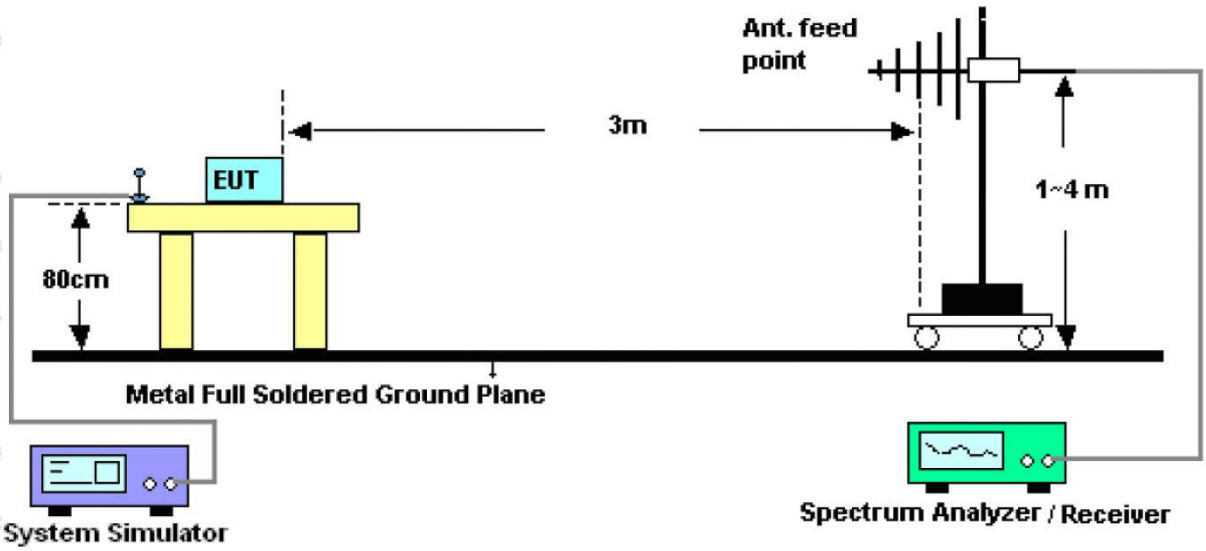


Figure 2. 30MHz to 1GHz

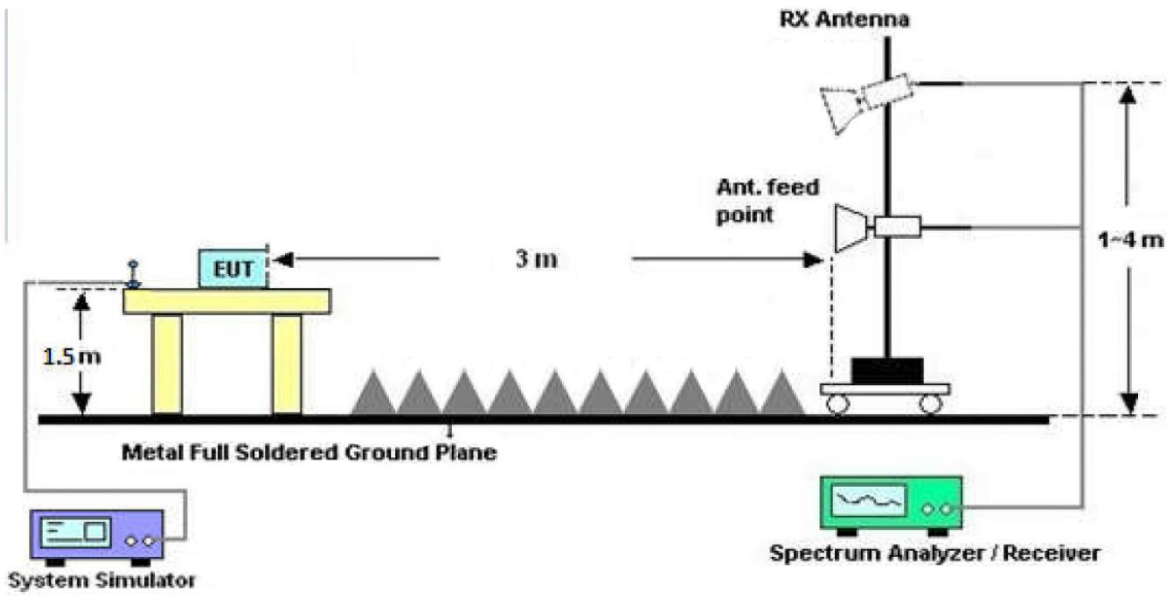


Figure 3. Above 1 GHz

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.

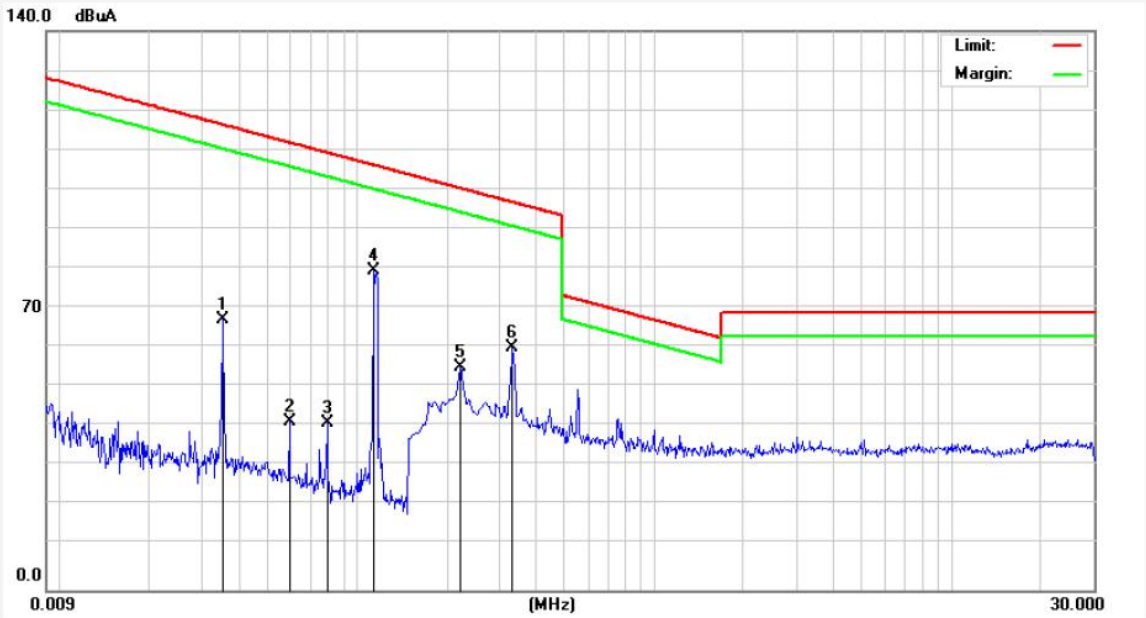
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	**SZAWW180523004-01**		
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**

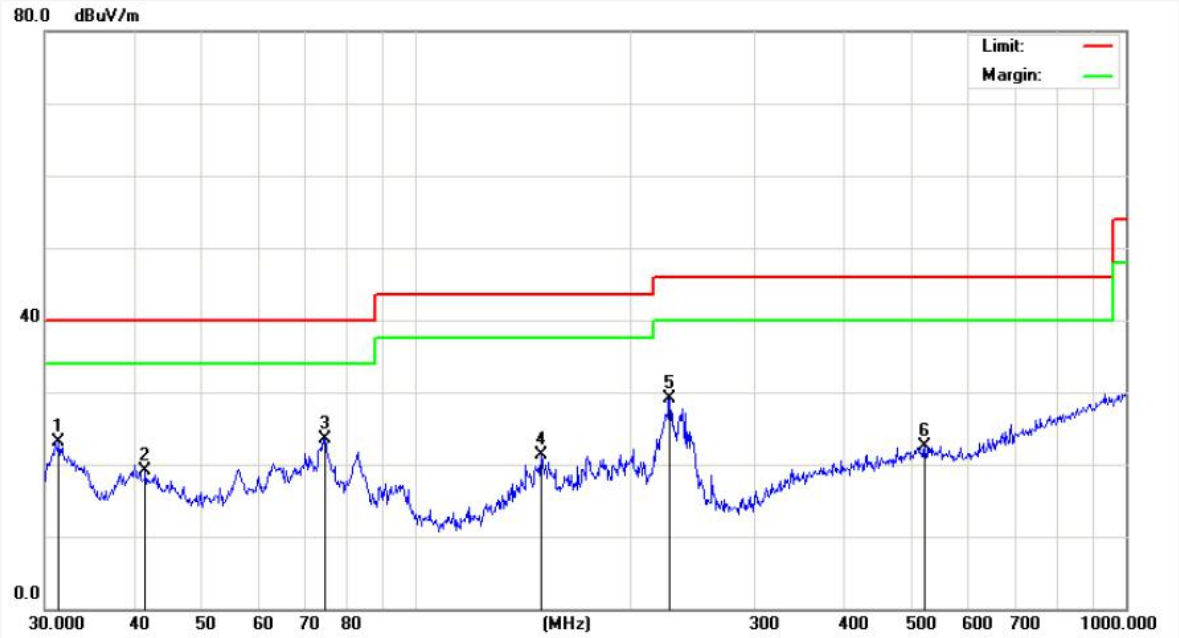


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dge)
0.0353	68.40	19.28	2.53	0	90.21	136.52	-46.31	Peak	211
0.0353	45.75	19.28	2.53	0	67.56	116.52	-48.96	AV	211
0.0593	44.73	19.28	2.53	0	66.54	132.04	-65.50	Peak	144
0.0593	20.51	19.28	2.53	0	42.32	112.04	-69.72	AV	144
0.0793	48.38	19.30	2.54	0	70.22	129.53	-59.31	Peak	156
0.0793	20.13	19.30	2.54	0	41.97	109.53	-67.56	AV	156
0.1139	77.19	19.38	2.55	0	99.12	126.40	-27.28	Peak	90
0.1139	57.98	19.38	2.55	0	79.91	106.40	-26.49	AV	90
0.2220	53.09	19.53	2.59	0	75.21	120.64	-45.43	Peak	330
0.2220	33.54	19.53	2.59	0	55.66	100.64	-44.98	AV	330
0.3339	52.28	20.34	2.59	0	75.21	117.11	-41.90	Peak	180
0.3339	37.73	20.34	2.59	0	60.66	97.11	-36.45	AV	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.:	**SZAWW180523004-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**

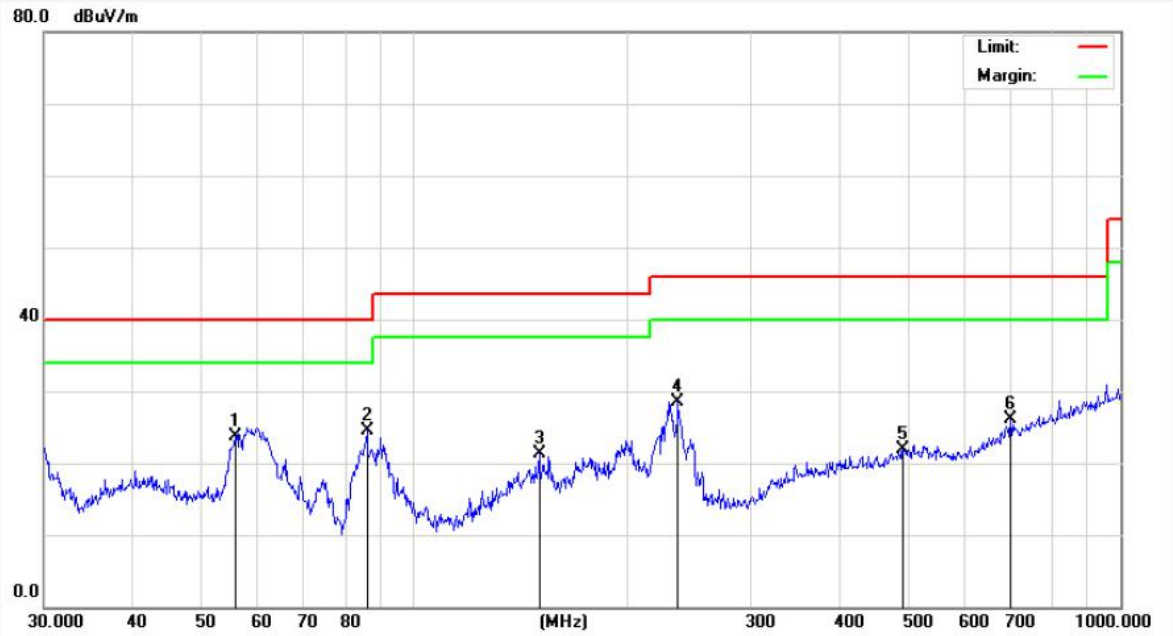


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.3992	41.22	-18.14	23.08	40.00	-16.92	QP	300	0	
2	41.5670	33.74	-14.67	19.07	40.00	-20.93	QP	300	21	
3	74.3955	45.05	-21.50	23.55	40.00	-16.45	QP	300	79	
4	150.0108	42.56	-21.34	21.22	43.50	-22.28	QP	300	103	
5	227.6906	47.68	-18.61	29.07	46.00	-16.93	QP	300	300	
6	520.8882	33.57	-11.01	22.56	46.00	-23.44	QP	300	360	

Job No.:	**SZAWW180523004-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%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	44.17	-13.60	30.57	40.00	-9.43	QP	300	0	
2	72.8466	51.21	-20.26	30.95	40.00	-9.05	QP	300	36	
3	82.9385	48.16	-18.70	29.46	40.00	-10.54	QP	300	136	
4	176.2686	42.26	-16.12	26.14	43.50	-17.36	QP	300	163	
5	226.8936	39.06	-14.03	25.03	46.00	-20.97	QP	300	213	
6	473.8347	34.19	-11.72	22.47	46.00	-23.53	QP	300	360	

Job No.:	**SZAWW180523004-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%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	56.0007	40.47	-16.79	23.68	40.00	-16.32	QP	300	0	
2	85.8984	45.85	-21.36	24.49	40.00	-15.51	QP	300	36	
3	150.5378	42.55	-21.33	21.22	43.50	-22.28	QP	300	132	
4	236.6447	46.35	-17.80	28.55	46.00	-17.45	QP	300	163	
5	492.4685	33.14	-11.17	21.97	46.00	-24.03	QP	300	213	
6	699.3046	34.51	-8.50	26.01	46.00	-19.99	QP	300	360	

Job No.:	**SZAWW180523004-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%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	30.2111	45.17	-17.49	27.68	40.00	-12.32	QP	300	0	
2	58.2030	49.06	-15.90	33.16	40.00	-6.84	QP	300	36	
3	84.1100	51.48	-18.27	33.21	40.00	-6.79	QP	300	202	
4	140.8351	41.82	-17.46	24.36	43.50	-19.14	QP	300	263	
5	176.8878	45.88	-16.06	29.82	43.50	-13.68	QP	300	306	
6	228.4904	40.36	-13.96	26.40	46.00	-19.60	QP	300	360	

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

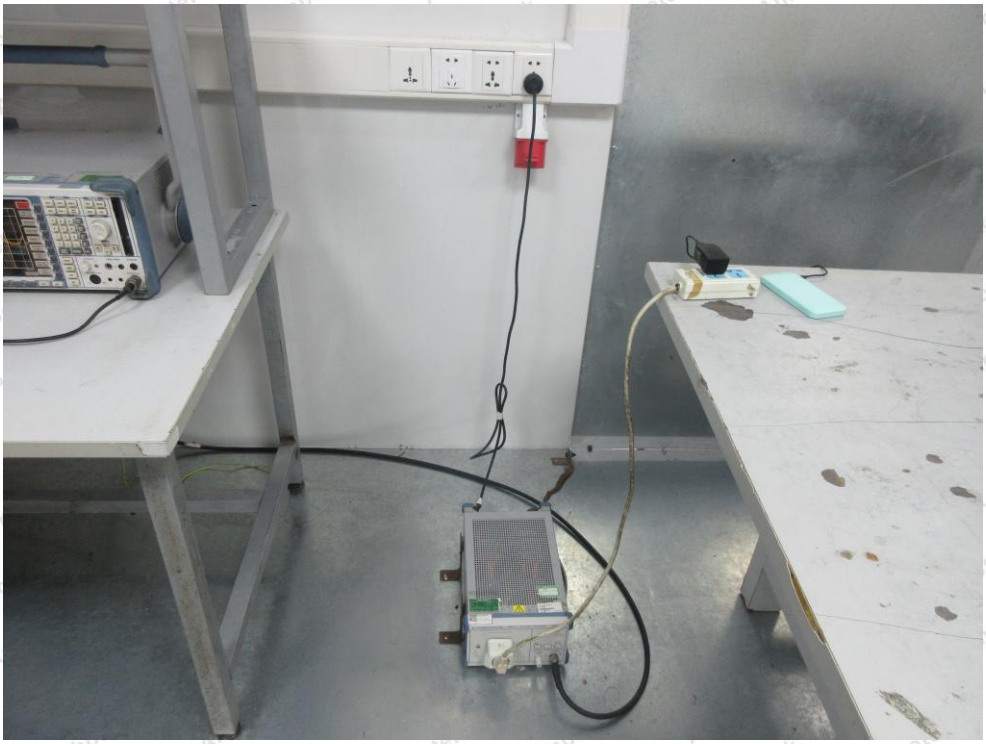
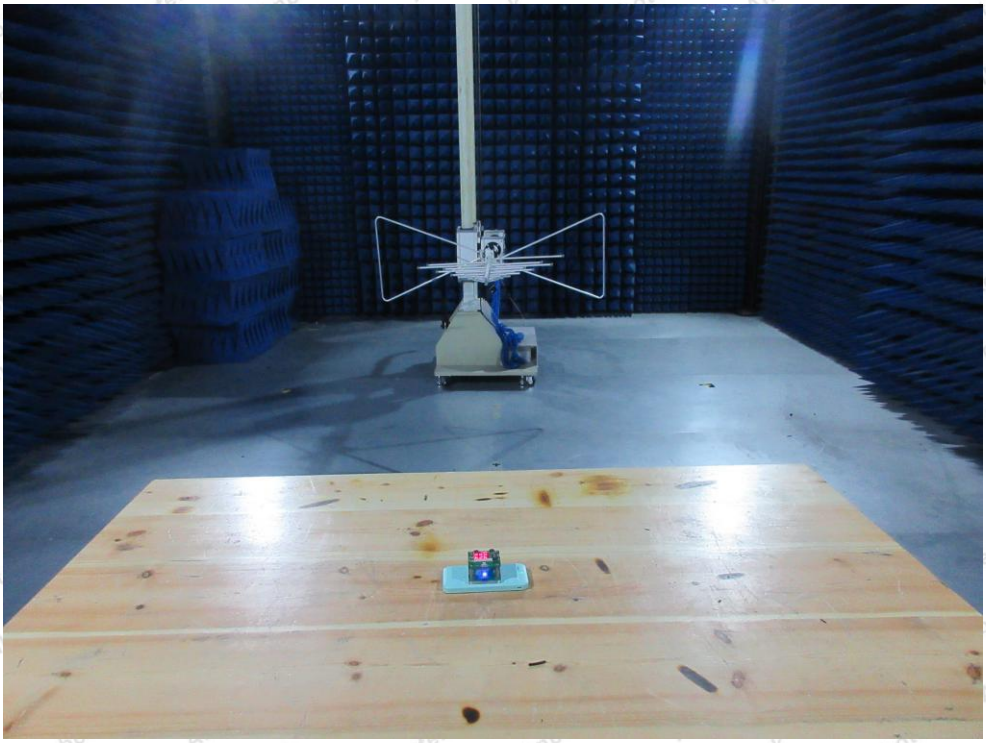
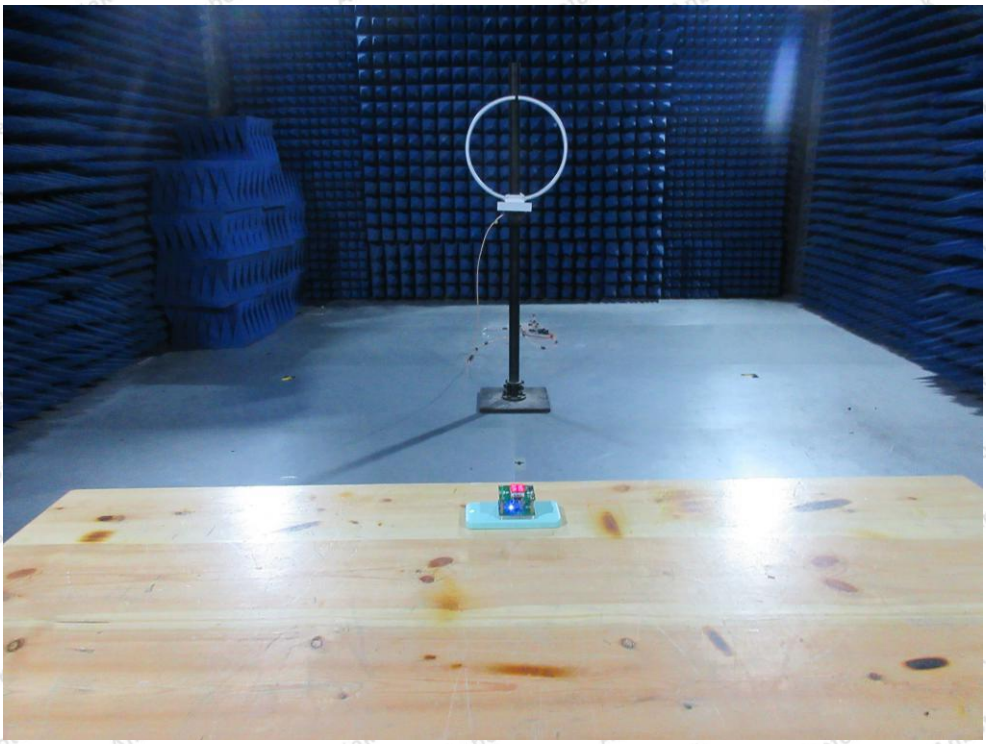
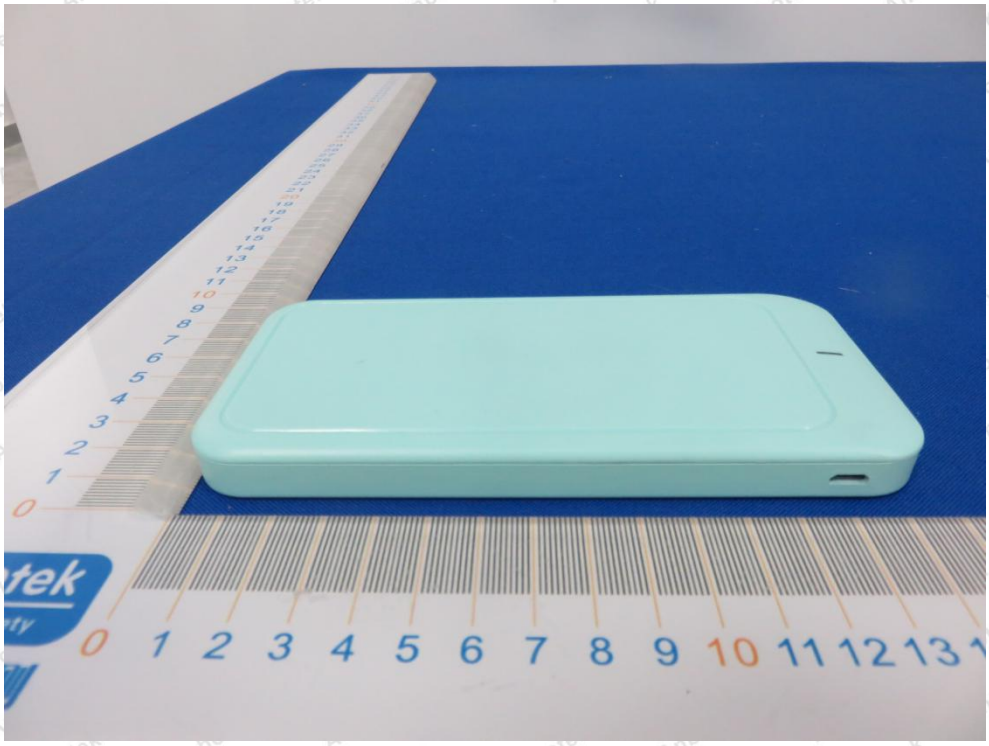


Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH



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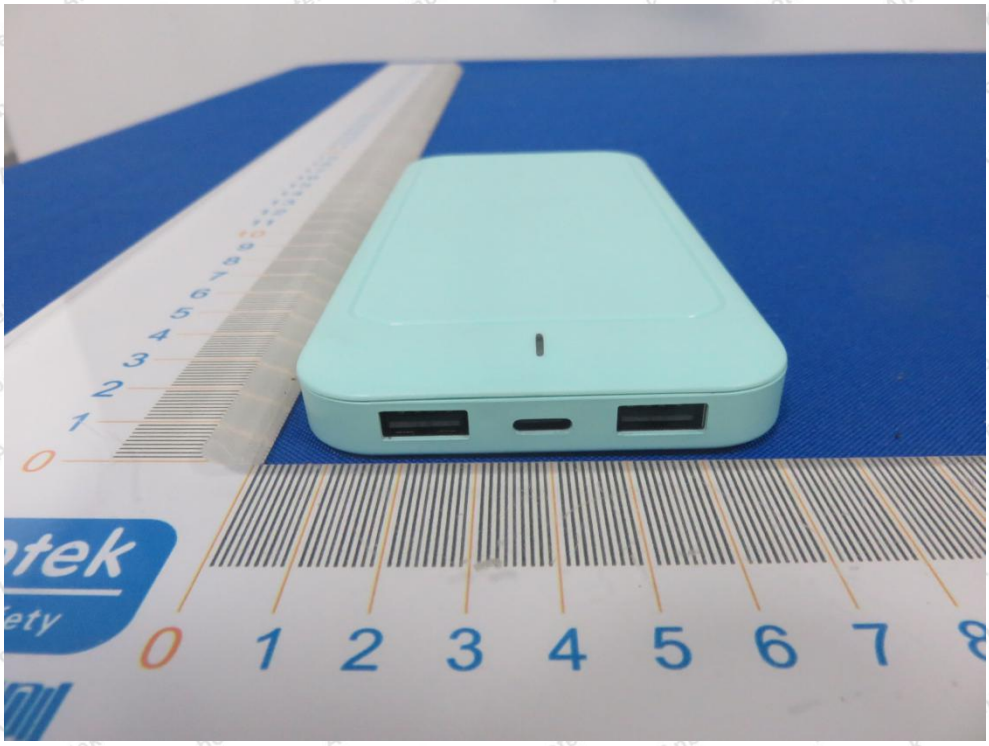
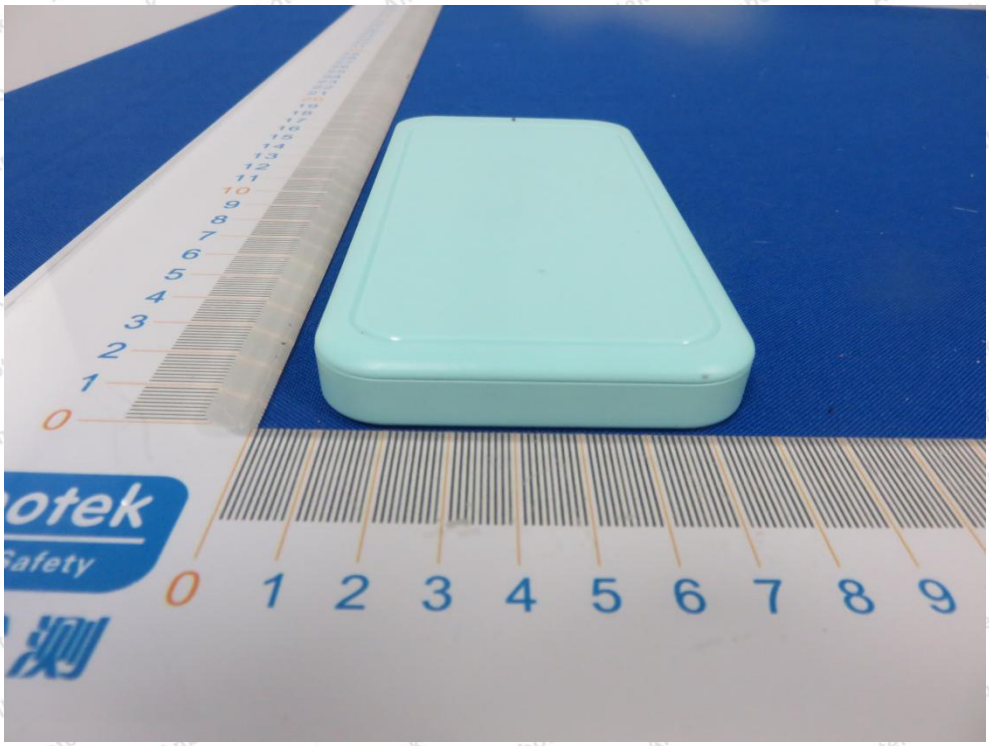
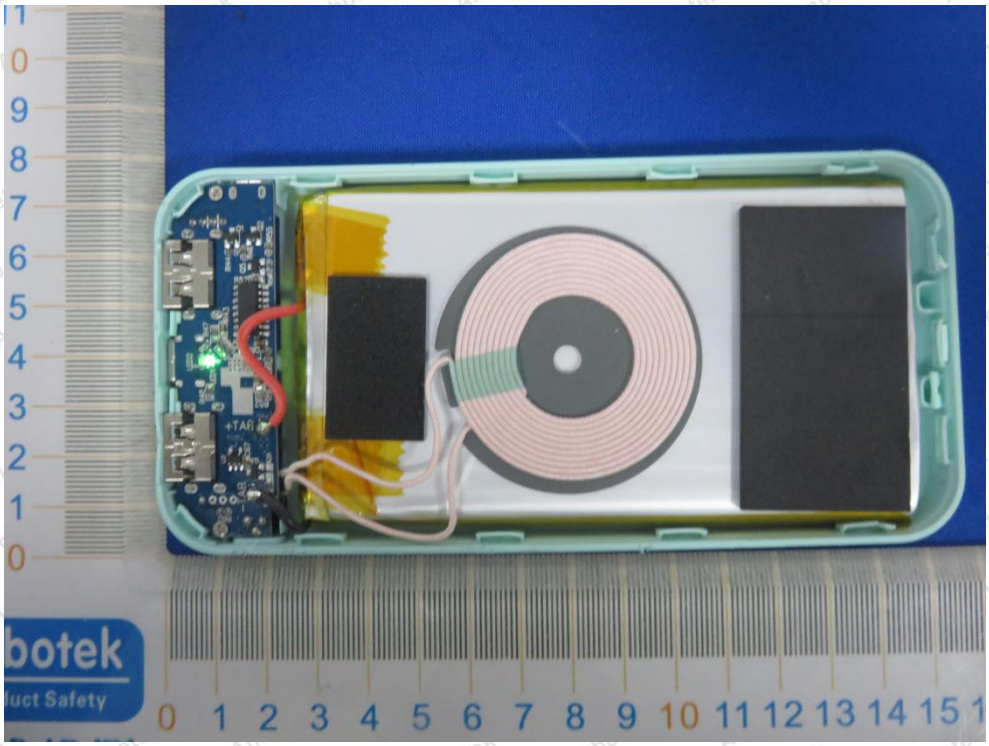
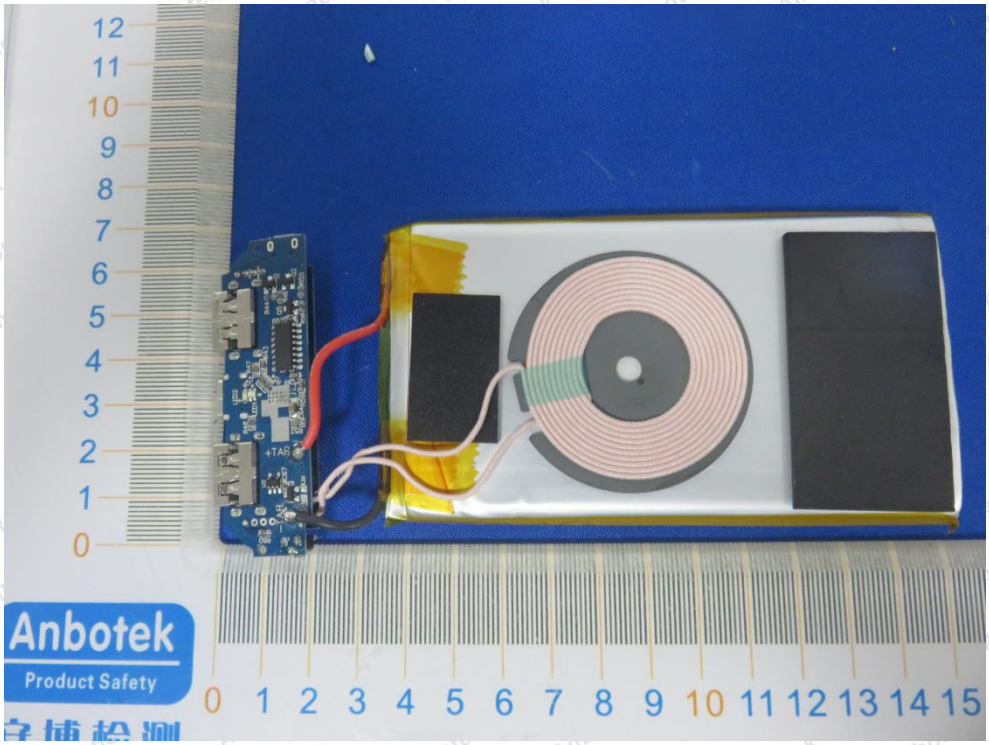
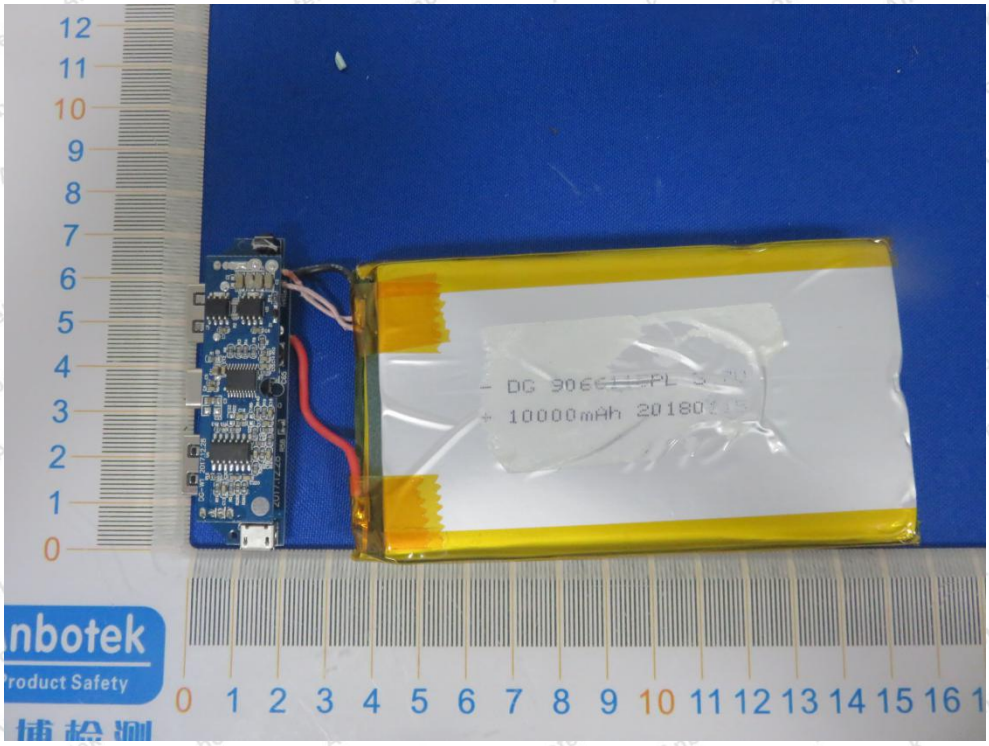




APPENDIX III -- INTERNAL PHOTOGRAPH



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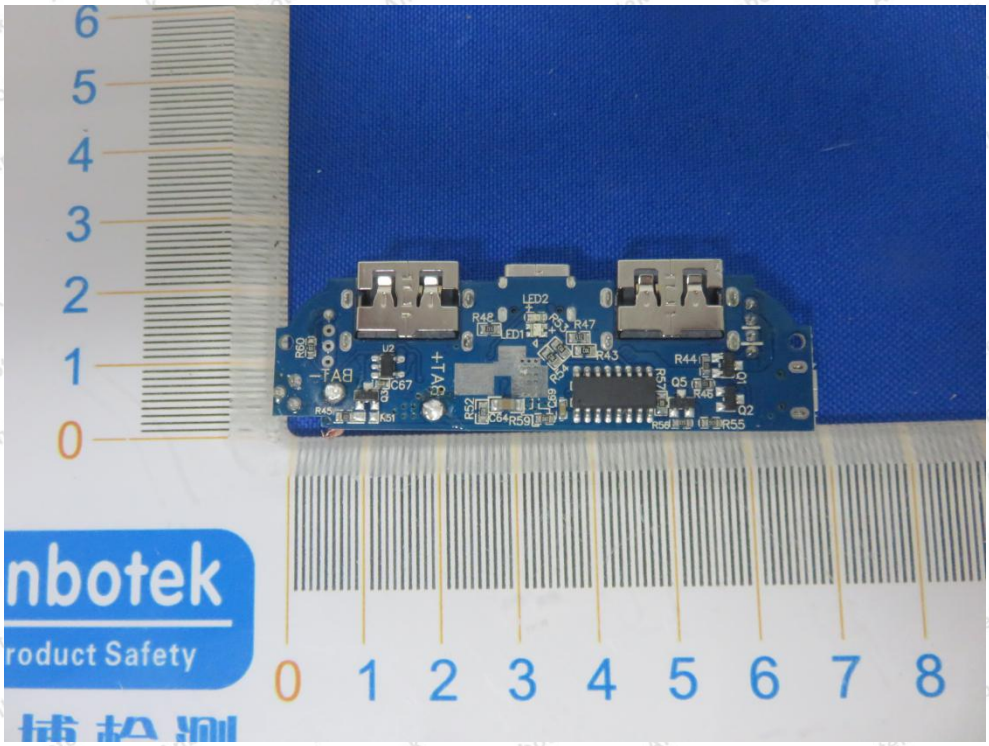

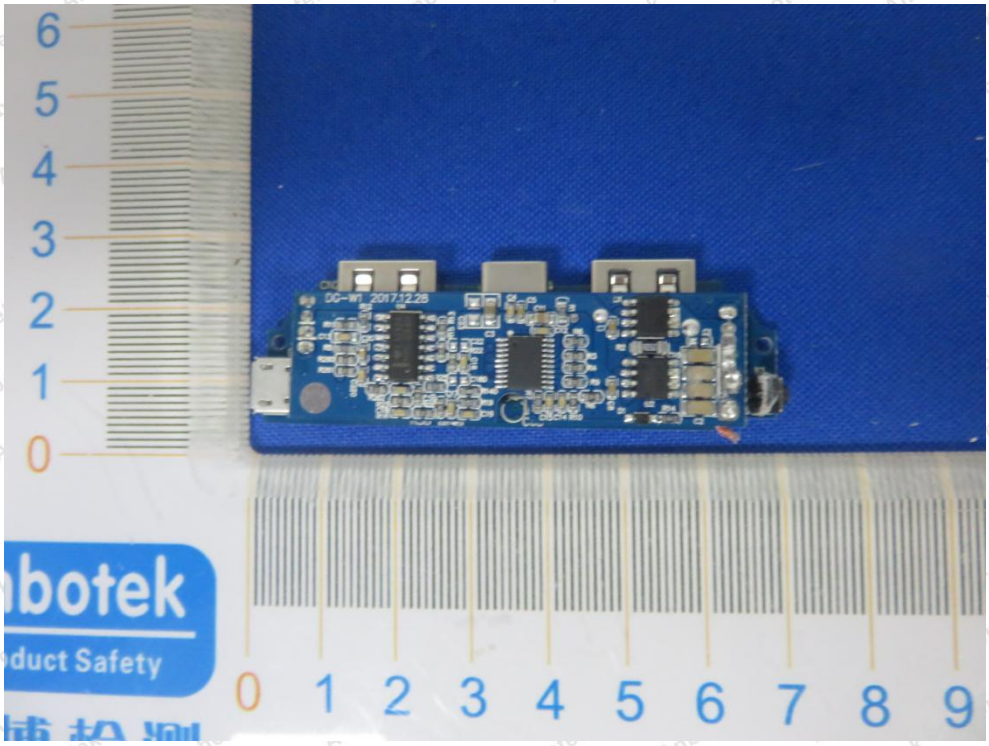

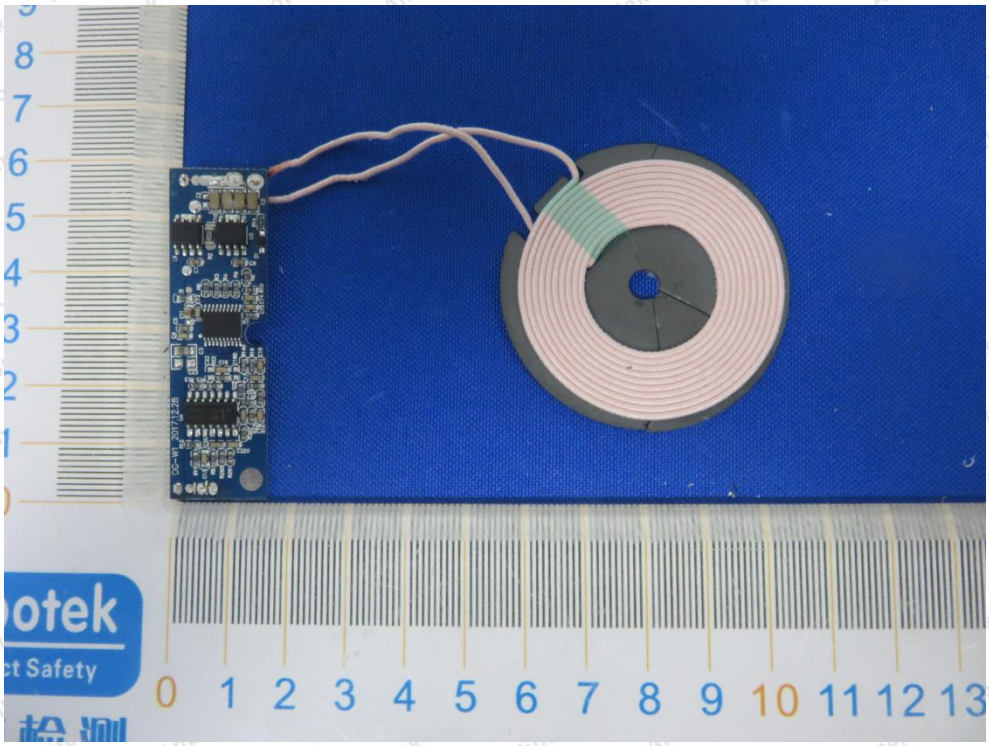

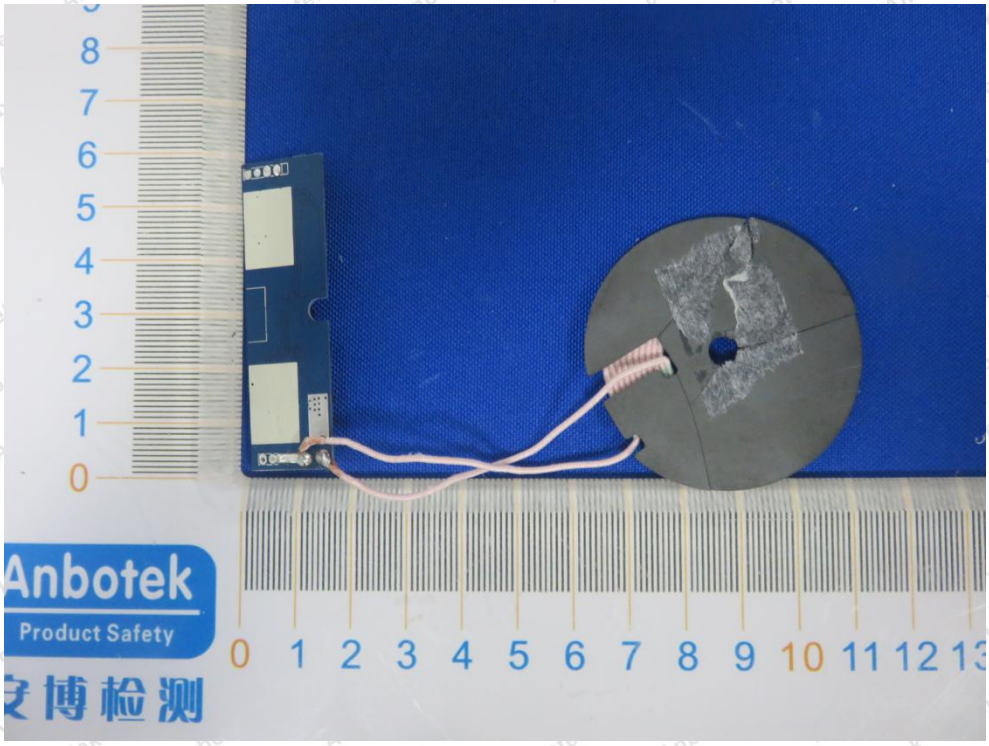

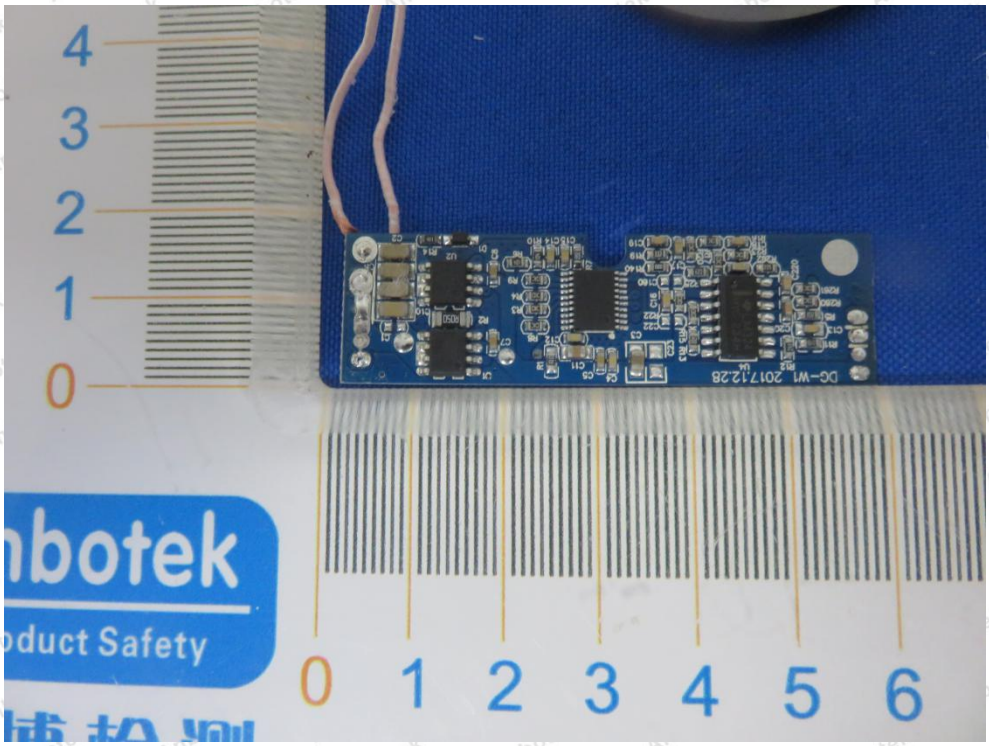

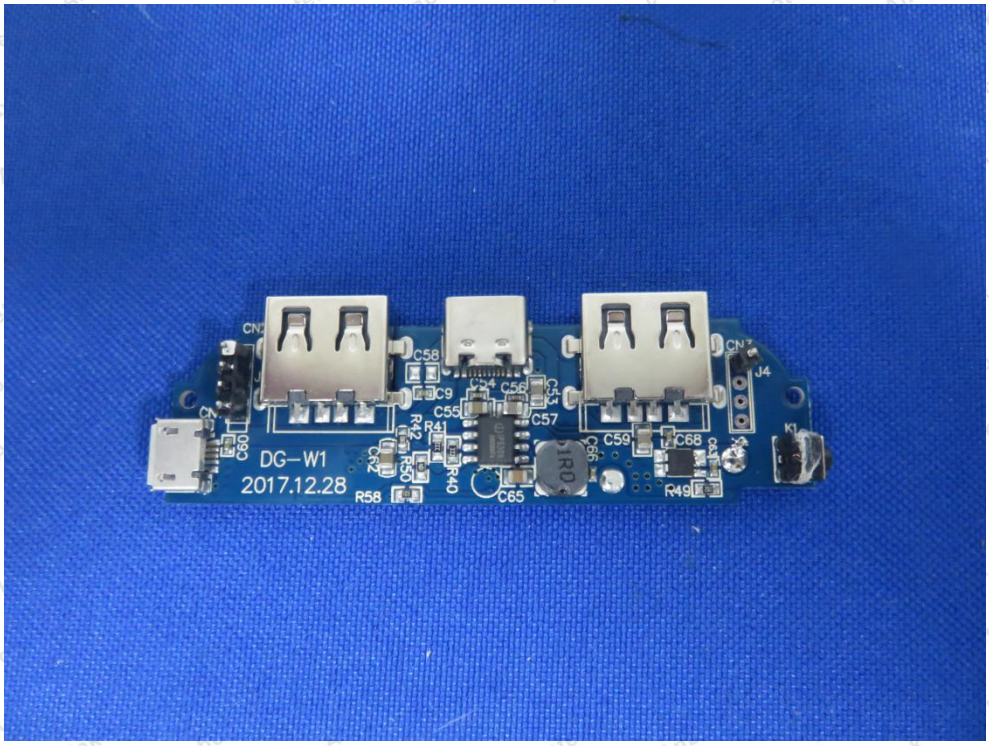
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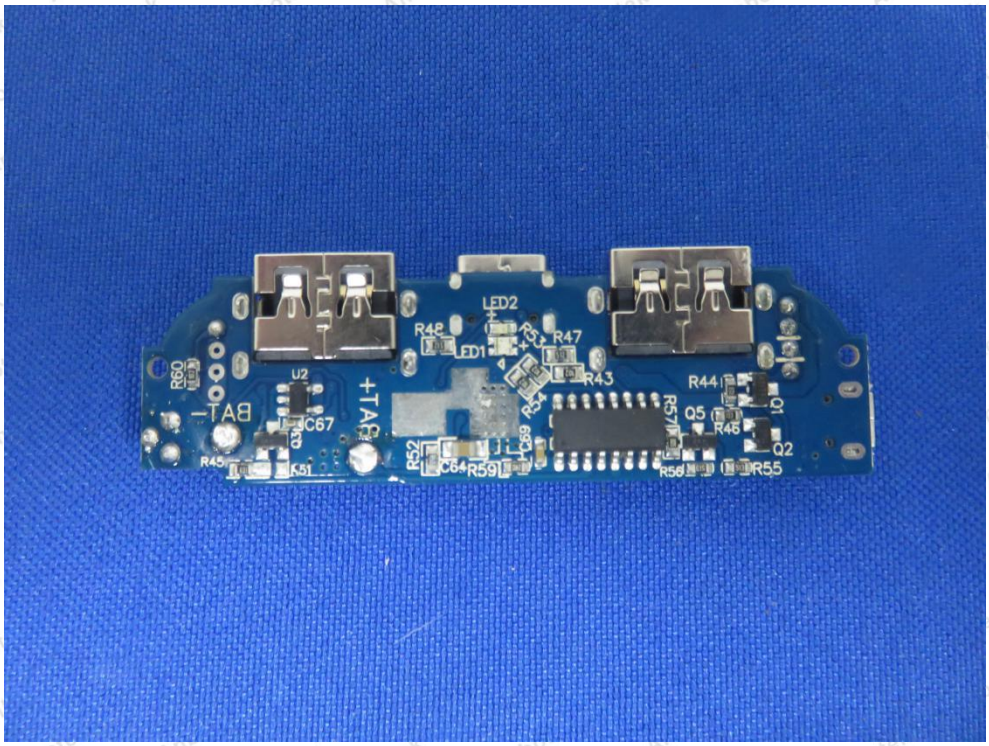

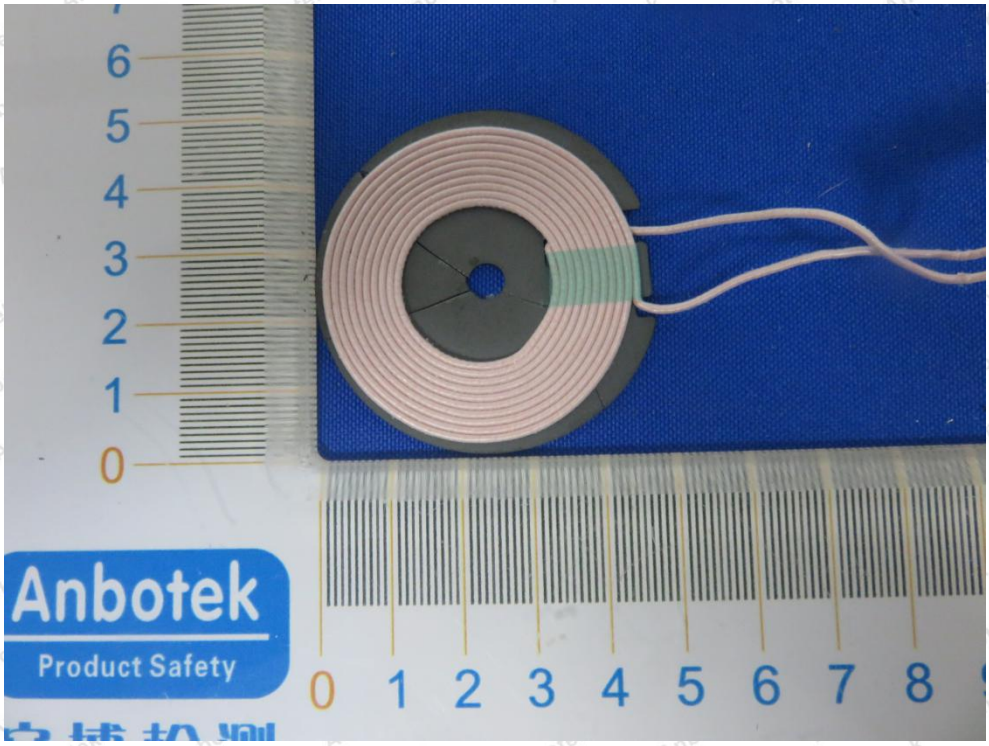

End of Report