




# TEST REPORT

FCC ID..... :	2A646-T1151	
Test Report No..... :	TCT220525E014	
Date of issue..... :	Jun. 09, 2022	
Testing laboratory .....	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Shenzhen Chuanglijiacheng Technology Co., Ltd.	
Address..... :	1616X4 Building C, Huangdu Square, No.3008 Yitian Road, Huanggang Community, Futian Street, Shenzhen, China	
Manufacturer's name ... :	Dong guan Utopia-Originality Technology Co., Ltd	
Address..... :	NO.2, moushan Road, Chan'an Town, Dongguan City, Guangdong Province, China	
Standard(s) .....	FCC CFR Title 47 Part 15 Subpart C	
Product Name..... :	Power bank	
Trade Mark .....	VRURC	
Model/Type reference..... :	T1151	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.85V	
Date of receipt of test item .....	May 25, 2022	
Date (s) of performance of test..... :	May 25, 2022 - Jun. 09, 2022	
Tested by (+signature) ... :	Aaron MO	
Check by (+signature)..... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	



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## 1. General Product Information

### 1.1.EUT description

Product Name.....:	Power bank
Model/Type reference.....:	T1151
Sample Number.....:	TCT220525E014-0101
Operation Frequency .....	124.68kHz - 165.22kHz
Modulation Technology .....	Load modulation
Max. Wireless Output Power:	15W
Antenna Type.....:	Inductive loop coil Antenna
Rating(s).....:	Rechargeable Li-ion Battery DC 3.85V

### 1.2.Model(s) list

None.

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. General Information

#### 3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25.3 °C	25.0 °C
Humidity:	56 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
AC mode	Keep the EUT in max. wireless output power(15W)	
Internal Battery Mode	Keep the EUT in max. wireless output power(15W)	
<p>The sample was placed 0.8m above the ground plane for the measurement from 9KHz to 30MHz in 3m chamber. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case( Z axis) are shown in Test Results of the following pages.</p>		

#### 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG
Adapter	EP-TA20CBC	R37HAEY0DT1RT3	/	SAMSUNG

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Both AC mode and internal battery mode have been tested, only worse case (AC mode) is reported

## 4. Facilities and Accreditations

### 4.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 3.10$ dB
2	RF power, conducted	$\pm 0.12$ dB
3	Spurious emissions, conducted	$\pm 0.11$ dB
4	All emissions, radiated(<1 GHz)	$\pm 4.56$ dB
5	All emissions, radiated(1 GHz - 18 GHz)	$\pm 4.22$ dB
6	All emissions, radiated(18 GHz- 40 GHz)	$\pm 4.36$ dB

## 5. Test Results and Measurement Data

### 5.1. Antenna requirement

**Standard requirement:**

FCC Part15 C Section 15.203

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.

**E.U.T Antenna:**

The antenna is inductive loop coil antenna which permanently attached.





## 5.2. Conducted Emission

### 5.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
<b>Test Setup:</b>	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Charging + Transmitting Mode														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>														
<b>Test Result:</b>	PASS														



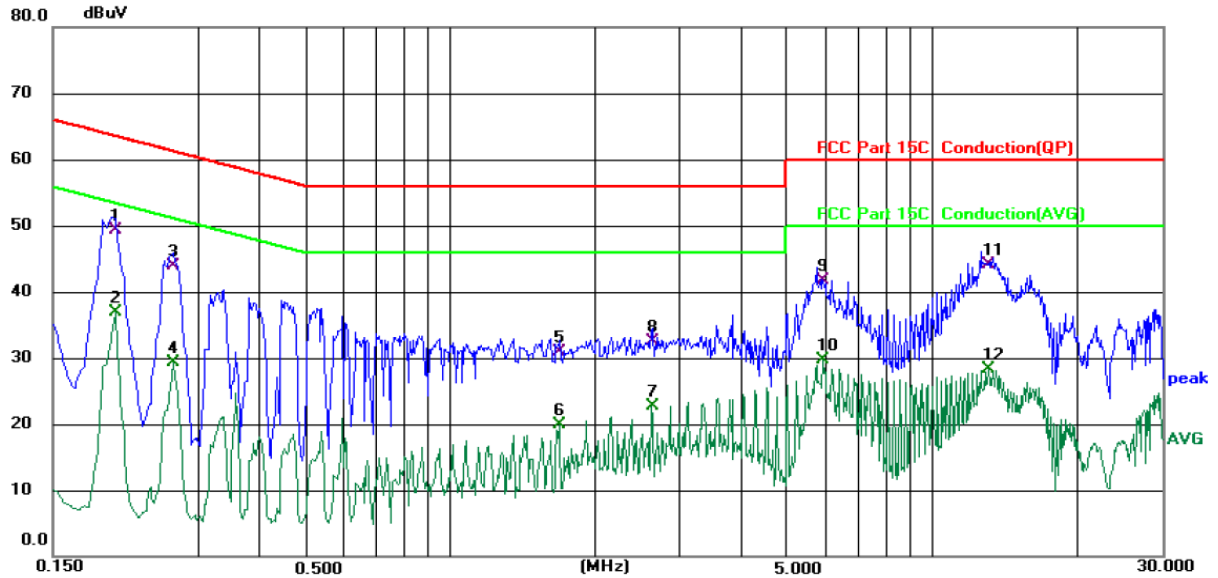
**5.2.2. Test Instruments**

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023
Line-5	TCT	CE-05	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

5.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room Phase: L1 Temperature: 25.3 (°C) Humidity: 56 %

Limit: FCC Part 15C Conduction(QP) Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2020	38.85	10.54	49.39	63.53	-14.14	QP	
2		0.2020	26.40	10.54	36.94	53.53	-16.59	AVG	
3		0.2660	33.50	10.31	43.81	61.24	-17.43	QP	
4		0.2660	18.97	10.31	29.28	51.24	-21.96	AVG	
5		1.6820	20.87	10.09	30.96	56.00	-25.04	QP	
6		1.6820	9.83	10.09	19.92	46.00	-26.08	AVG	
7		2.6220	12.55	10.08	22.63	46.00	-23.37	AVG	
8		2.6260	22.39	10.08	32.47	56.00	-23.53	QP	
9		5.9580	31.52	10.20	41.72	60.00	-18.28	QP	
10		5.9580	19.43	10.20	29.63	50.00	-20.37	AVG	
11		13.1100	33.76	10.31	44.07	60.00	-15.93	QP	
12		13.1100	17.92	10.31	28.23	50.00	-21.77	AVG	

**Note:**

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

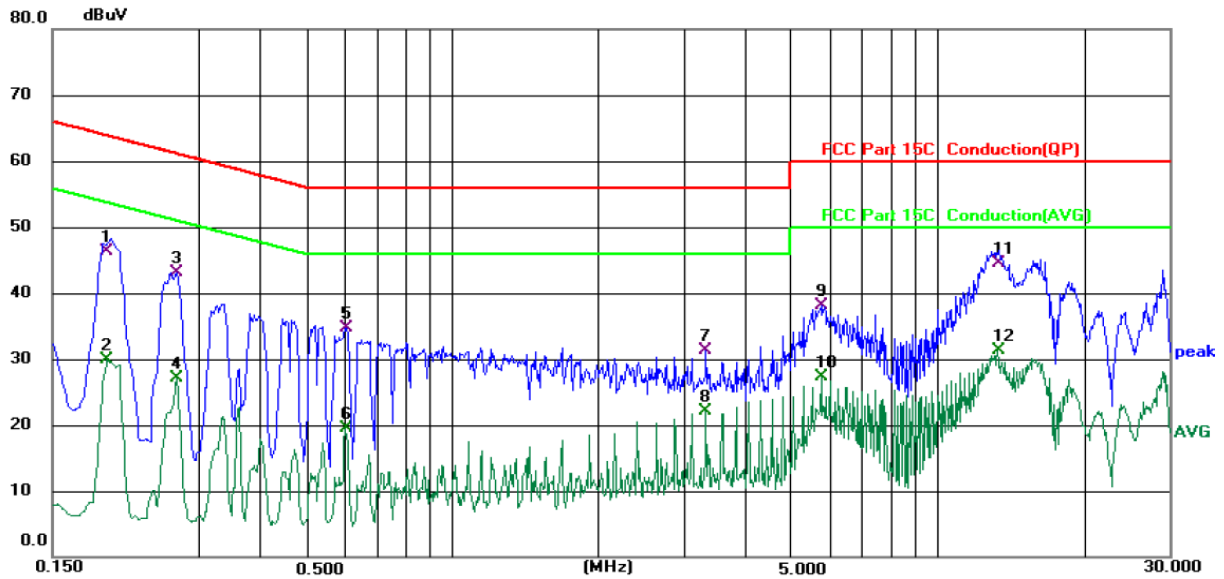
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

**Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)**



Site 844 Shielding Room

Phase: **N**

Temperature: 25.3 (°C)

Humidity: 56 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1940	35.84	10.53	46.37	63.86	-17.49	QP	
2		0.1940	19.28	10.53	29.81	53.86	-24.05	AVG	
3		0.2700	32.89	10.30	43.19	61.12	-17.93	QP	
4		0.2700	16.81	10.30	27.11	51.12	-24.01	AVG	
5		0.6020	24.62	10.14	34.76	56.00	-21.24	QP	
6		0.6020	9.38	10.14	19.52	46.00	-26.48	AVG	
7		3.3380	21.05	10.18	31.23	56.00	-24.77	QP	
8		3.3380	11.84	10.18	22.02	46.00	-23.98	AVG	
9		5.7660	27.81	10.24	38.05	60.00	-21.95	QP	
10		5.7660	17.03	10.24	27.27	50.00	-22.73	AVG	
11	*	13.3340	34.05	10.42	44.47	60.00	-15.53	QP	
12		13.3340	20.86	10.42	31.28	50.00	-18.72	AVG	

**Note:**

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

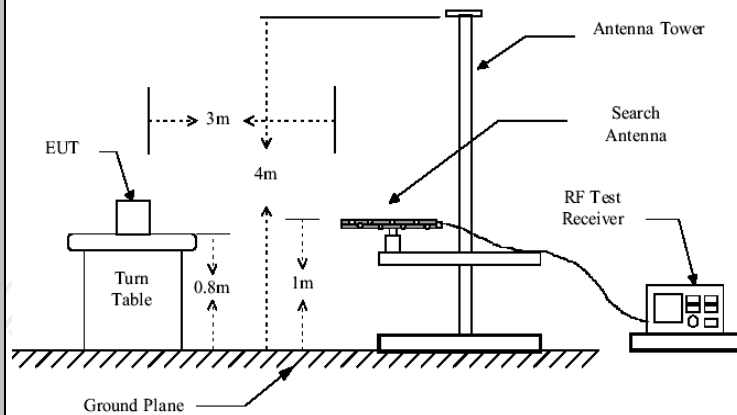
Q.P. =Quasi-Peak AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

### 5.3. Radiated Spurious Emission Measurement

#### 5.3.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.209				
<b>Test Method:</b>	ANSI C63.10: 2013				
<b>Frequency Range:</b>	9 kHz to 25 GHz				
<b>Measurement Distance:</b>	3 m				
<b>Antenna Polarization:</b>	Horizontal & Vertical				
<b>Operation mode:</b>	Refer to item 3.1				
<b>Receiver Setup:</b>	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
<b>Limit:</b>	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)		
	0.009-0.490	2400/F(KHz)	300		
	0.490-1.705	24000/F(KHz)	30		
	1.705-30	30	30		
	30-88	100	3		
	88-216	150	3		
	216-960	200	3		
	Above 960	500	3		
<b>Test setup:</b>	For radiated emissions below 30MHz				
	<p>Distance = 3m</p> <p>0.8m</p> <p>Turn table</p> <p>1m</p> <p>Ground Plane</p> <p>Computer</p> <p>Pre-Amplifier</p> <p>Receiver</p>				
	30MHz to 1GHz				



**Test Procedure:**

1. For the radiated emission test below 1GHz:  
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.  
For the radiated emission test above 1GHz:  
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
2. Corrected Reading:  $\text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor} = \text{Level}$
3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
4. Use the following spectrum analyzer settings:

	<p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=120 kHz for <math>f &lt; 1</math> GHz; <math>VBW \geq RBW</math>; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>For average measurement: <math>VBW = 10</math> Hz, when duty cycle is no less than 98 percent. <math>VBW \geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
<b>Test mode:</b>	Refer to section 3.1 for details
<b>Test results:</b>	PASS



**5.3.2. Test Instruments**

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coaxial cable	SKET	RC_DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC18G-N	N/A	Feb. 24, 2023
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A



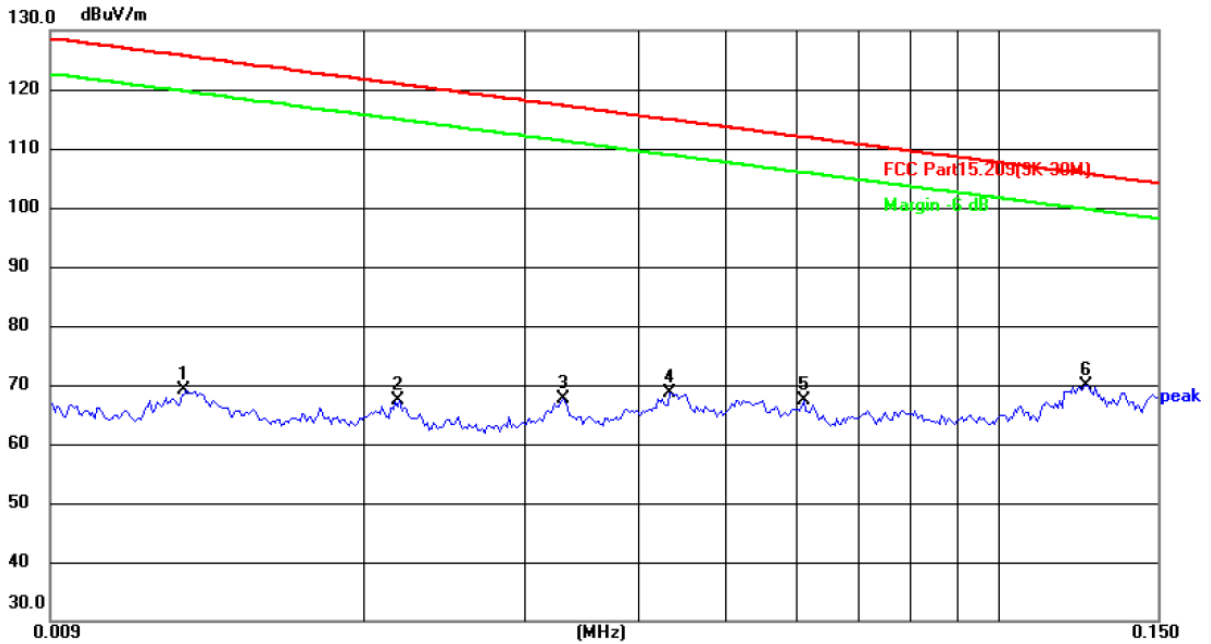
**5.3.3. Test Data**

Please refer to following diagram for individual

**9KHz-30MHz**

9KHz-150KHz:

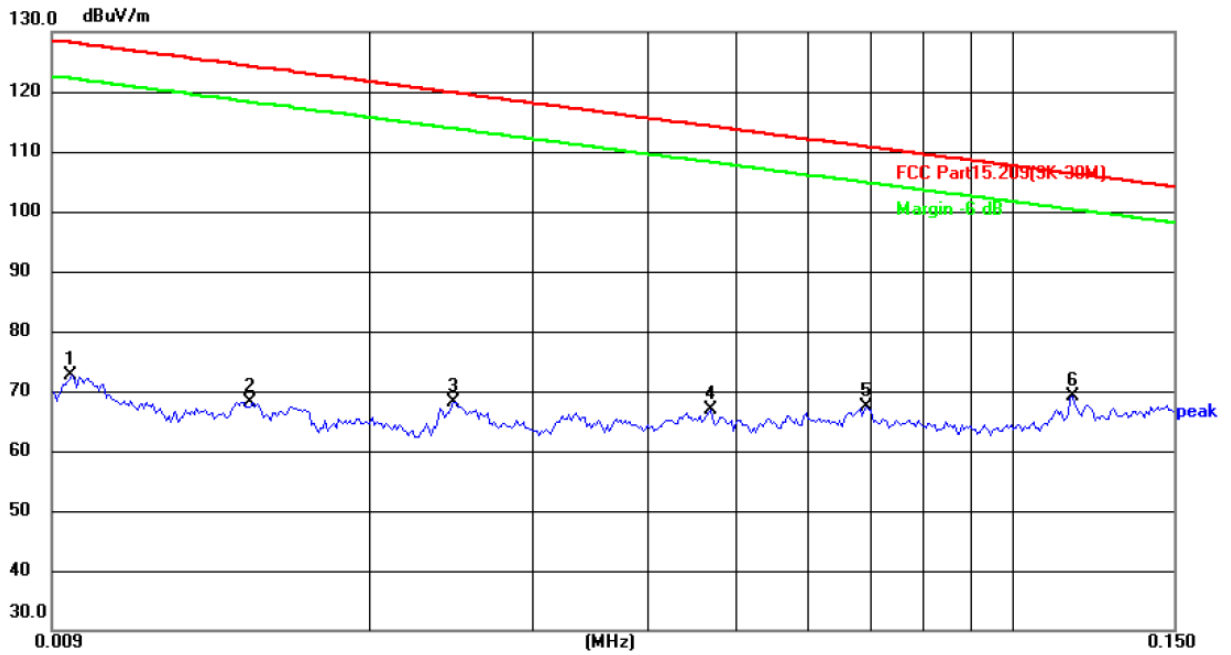
**Coaxial**



Site: Polarization: **Coaxial** Temperature: 24(°C)  
 Limit: FCC Part15.209(9K-30M) Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0126	48.28	20.80	69.08	125.60	-56.52	peak	P	
2	0.0217	46.72	20.73	67.45	120.88	-53.43	peak	P	
3	0.0330	46.89	20.69	67.58	117.23	-49.65	peak	P	
4	0.0434	47.77	20.76	68.53	114.85	-46.32	peak	P	
5	0.0609	46.66	20.79	67.45	111.91	-44.46	peak	P	
6 *	0.1250	49.59	20.30	69.89	105.67	-35.78	peak	P	

**Coplanar**



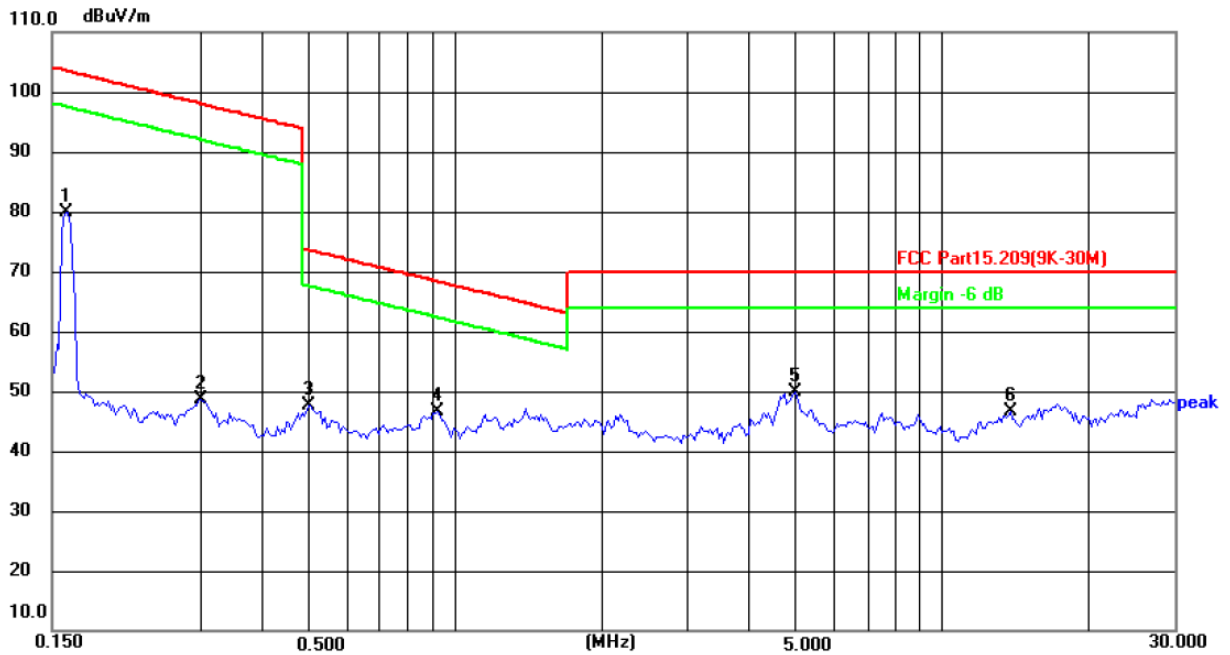
Site: Polarization: **Coplanar** Temperature: 24(°C)  
 Limit: FCC Part15.209(9K-30M) Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0094	52.00	20.61	72.61	128.14	-55.53	peak	P	
2	0.0148	47.45	20.78	68.23	124.20	-55.97	peak	P	
3	0.0246	47.42	20.70	68.12	119.79	-51.67	peak	P	
4	0.0470	46.03	20.79	66.82	114.16	-47.34	peak	P	
5	0.0694	46.59	20.76	67.35	110.78	-43.43	peak	P	
6 *	0.1160	48.64	20.51	69.15	106.32	-37.17	peak	P	



150KHz-30MHz:

## Coaxial



Site

Polarization: **Coaxial**

Temperature: 24(°C)

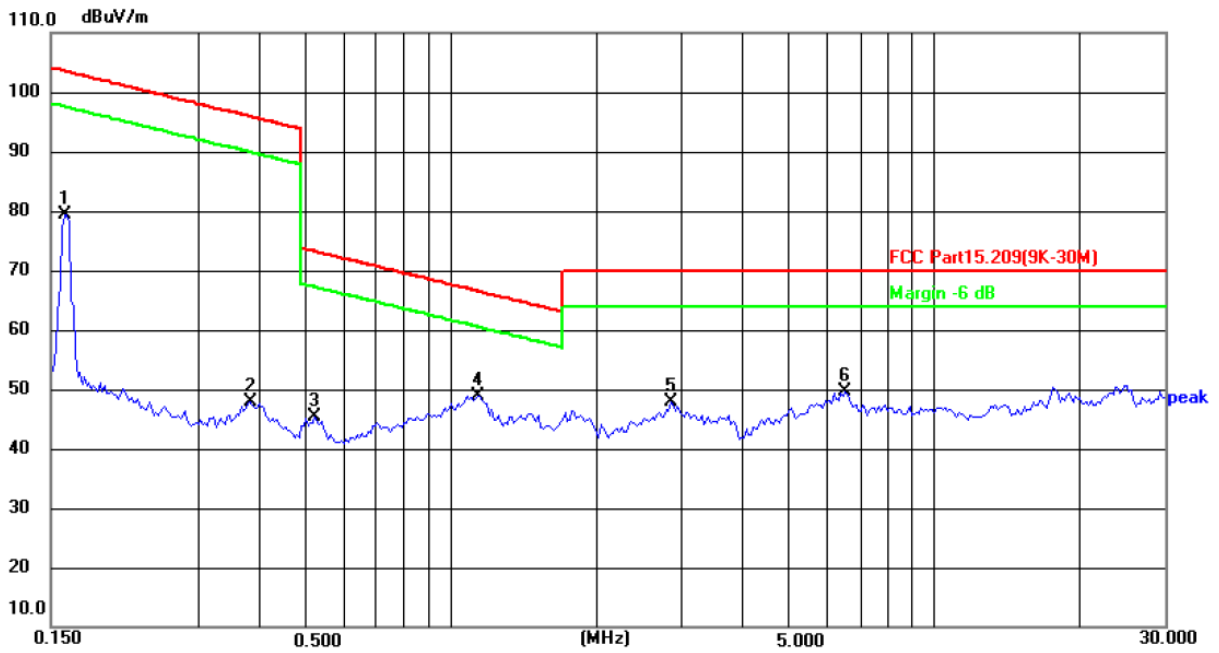
Limit: FCC Part15.209(9K-30M)

Power: DC 5 V(Adapter Input AC  
120 V/60 Hz)

Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1597	59.41	20.55	79.96	103.54	-23.58	peak	P	
2	0.3027	27.60	21.00	48.60	97.98	-49.38	peak	P	
3	0.5039	25.94	21.64	47.58	73.56	-25.98	peak	P	
4	0.9251	24.11	22.43	46.54	68.30	-21.76	peak	P	
5 *	5.0217	19.03	30.77	49.80	70.00	-20.20	peak	P	
6	13.7980	26.96	19.59	46.55	70.00	-23.45	peak	P	

**Coplanar**



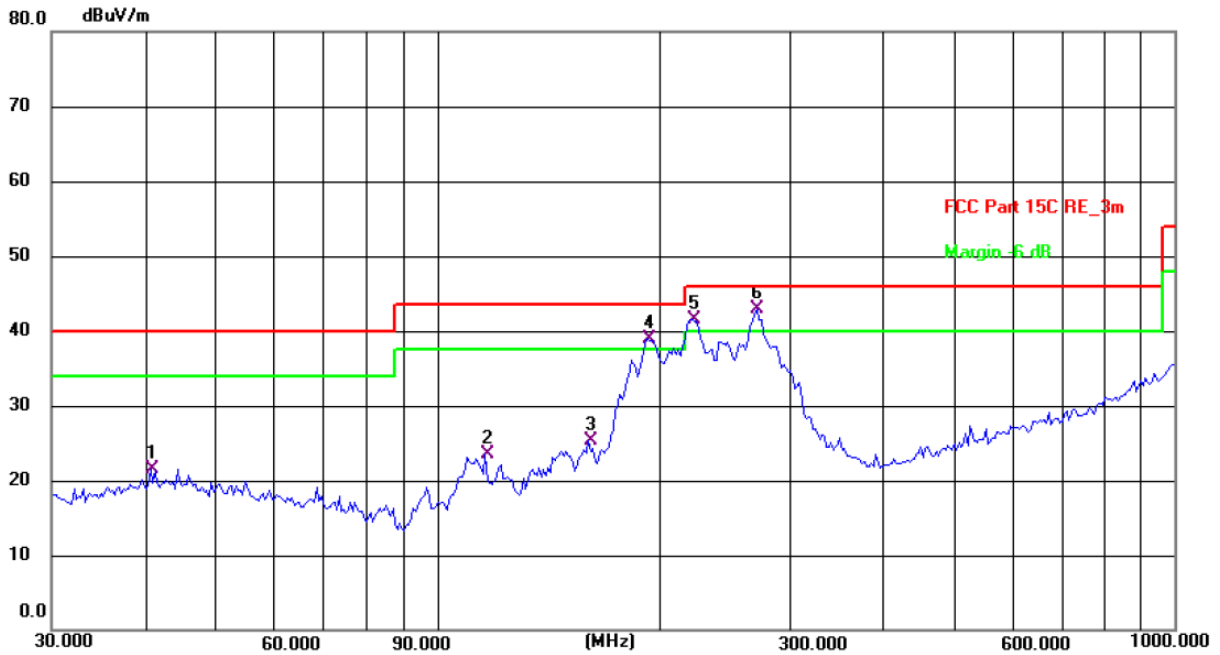
Site: Polarization: **Coplanar** Temperature: 24(°C)  
 Limit: FCC Part15.209(9K-30M) Power: DC 5 V(Adapter Input AC 120 V/60 Hz) Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.1597	58.91	20.55	79.46	103.54	-24.08	peak	P	
2	0.3865	26.48	21.28	47.76	95.86	-48.10	peak	P	
3	0.5262	23.74	21.69	45.43	73.18	-27.75	peak	P	
4 *	1.1444	26.15	22.84	48.99	66.45	-17.46	peak	P	
5	2.8574	21.53	26.31	47.84	70.00	-22.16	peak	P	
6	6.5521	15.89	33.62	49.51	70.00	-20.49	peak	P	



**30MHz-1GHz**

Horizontal:



Site #1 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 25(C)

Humidity: 55 %

Limit: FCC Part 15C RE\_3m

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	40.8446	7.82	13.70	21.52	40.00	-18.48	QP	P	
2	116.1321	12.17	11.27	23.44	43.50	-20.06	QP	P	
3	160.3456	11.98	13.35	25.33	43.50	-18.17	QP	P	
4 !	192.4186	28.19	10.64	38.83	43.50	-4.67	QP	P	
5 !	221.3919	30.62	10.98	41.60	46.00	-4.40	QP	P	
6 *	271.3245	30.18	12.76	42.94	46.00	-3.06	QP	P	

Vertical:



Site #1 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 25(C)

Humidity: 55 %

Limit: FCC Part 15C RE\_3m

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.7146	17.25	13.70	30.95	40.00	-9.05	QP	P	
2	85.2980	19.79	8.68	28.47	40.00	-11.53	QP	P	
3	116.1321	17.62	11.27	28.89	43.50	-14.61	QP	P	
4 !	192.4186	28.32	10.64	38.96	43.50	-4.54	QP	P	
5 *	218.3085	31.43	10.83	42.26	46.00	-3.74	QP	P	
6	269.4284	23.71	12.69	36.40	46.00	-9.60	QP	P	

**Note:**

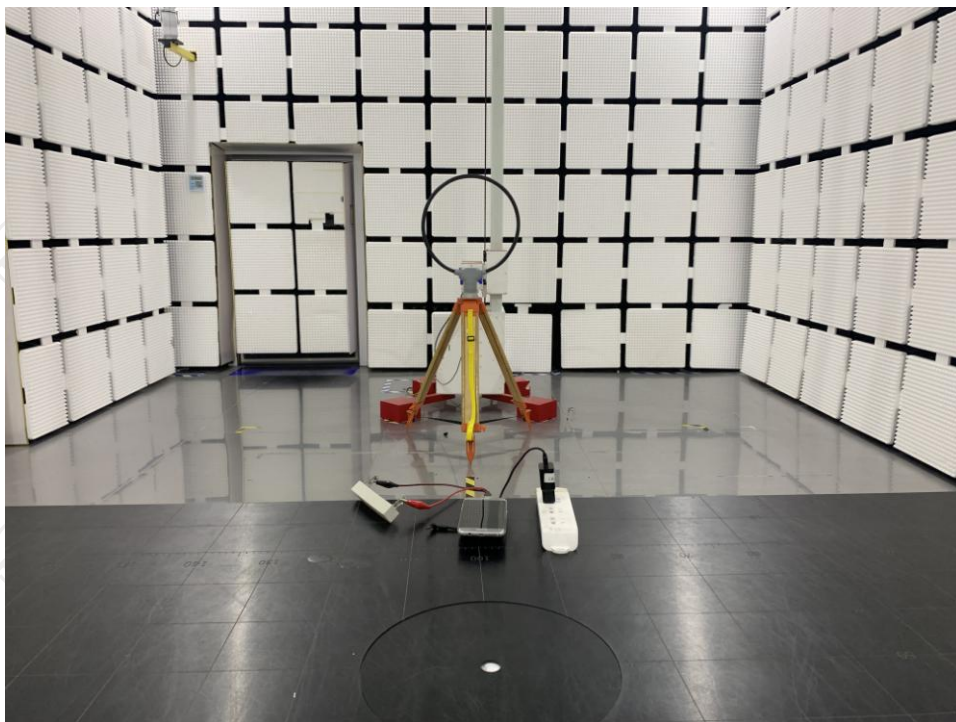
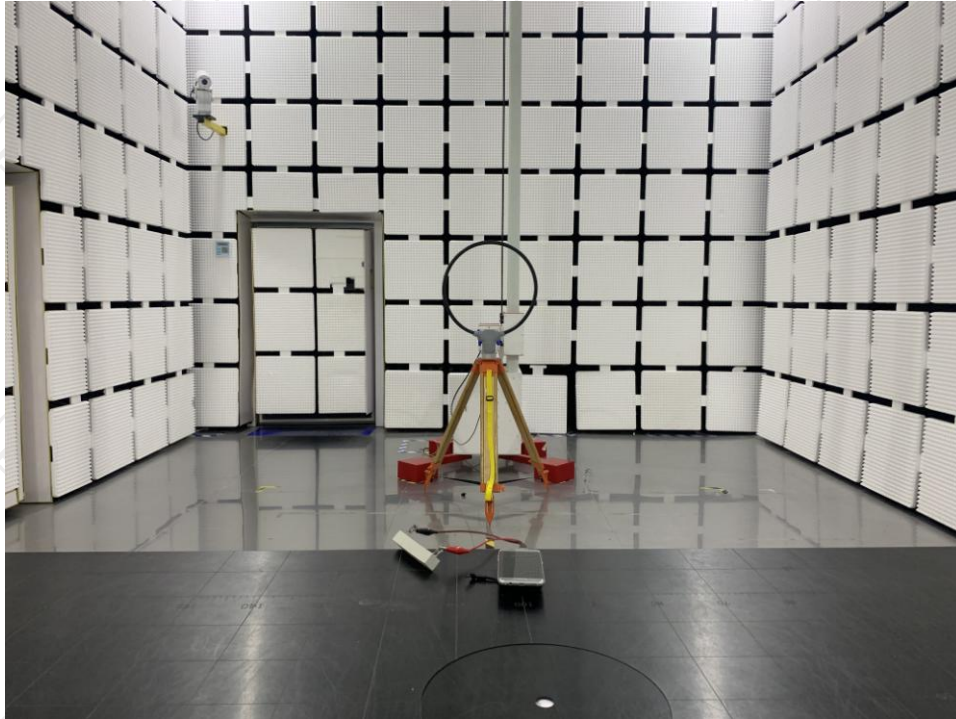
*Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier*

## Appendix A: Photographs of Test Setup

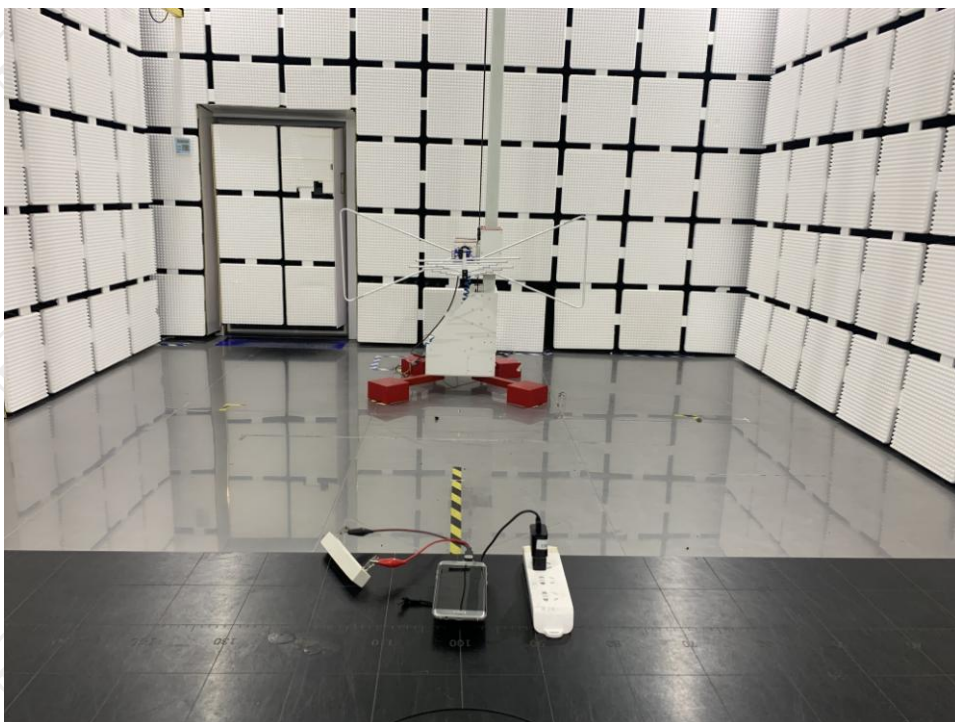
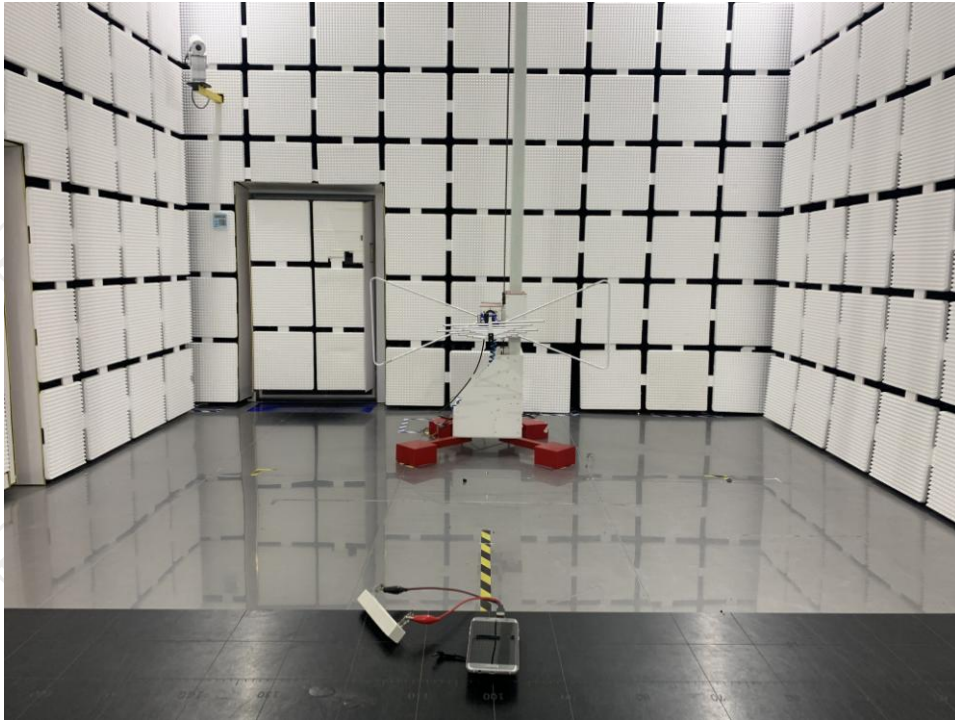
Product: Power bank

Model: T1151

Radiated Emission







Conducted Emission



**Appendix B: Photographs of EUT**  
**Product: Power bank**  
**Model: T1151**  
**External Photos**





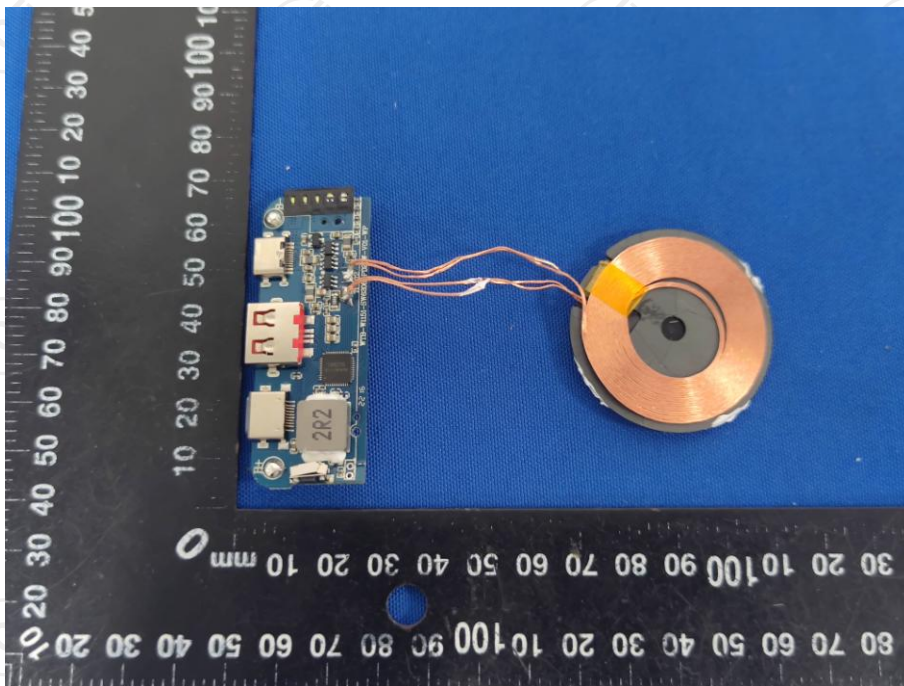
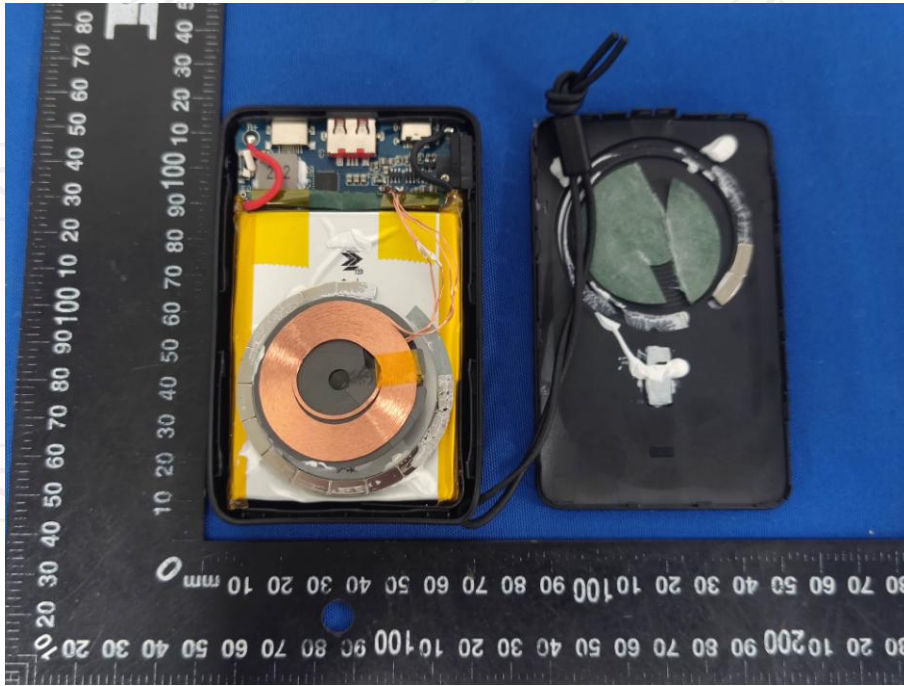




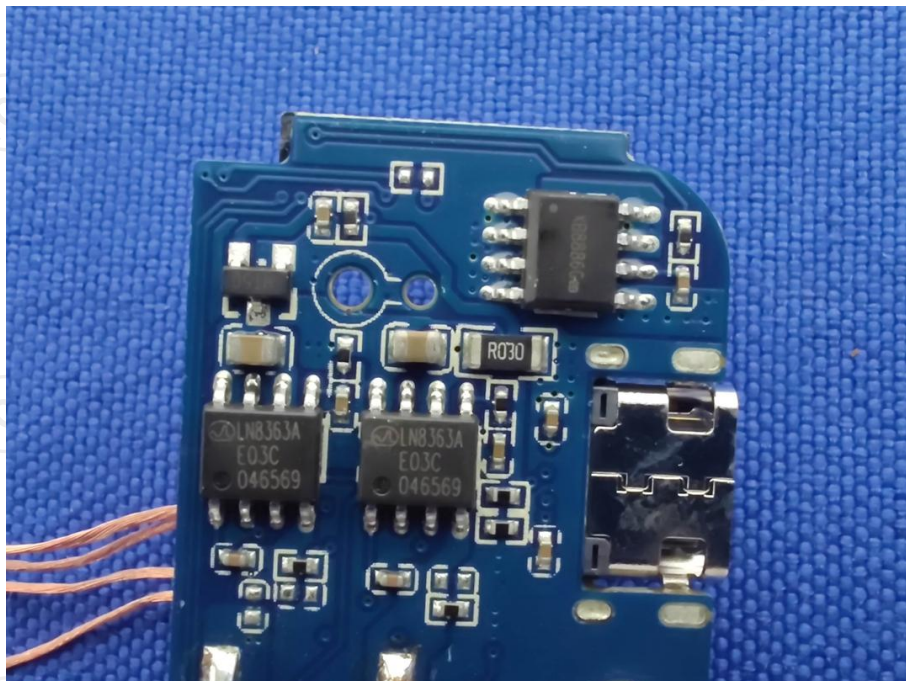
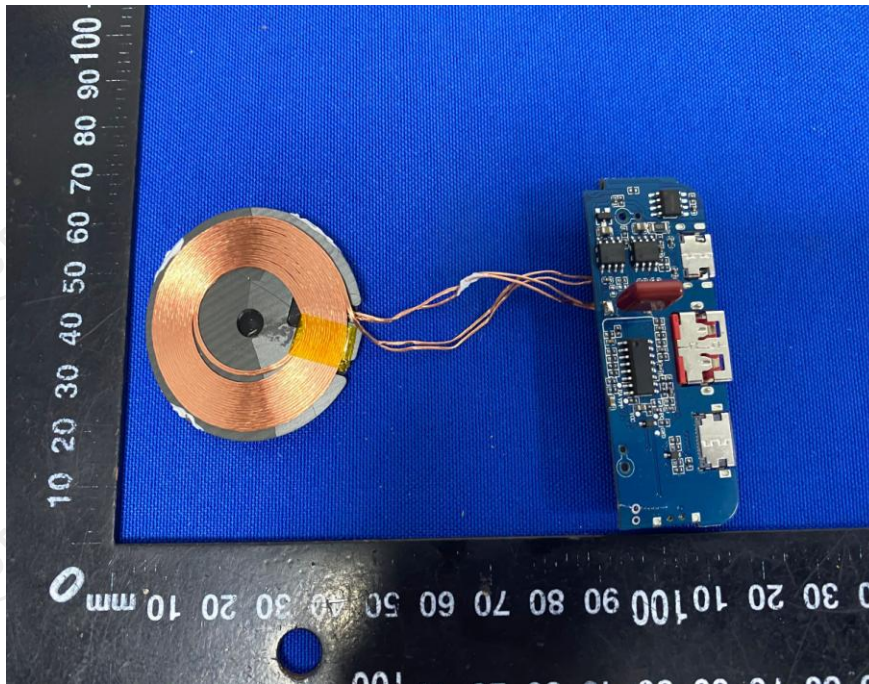


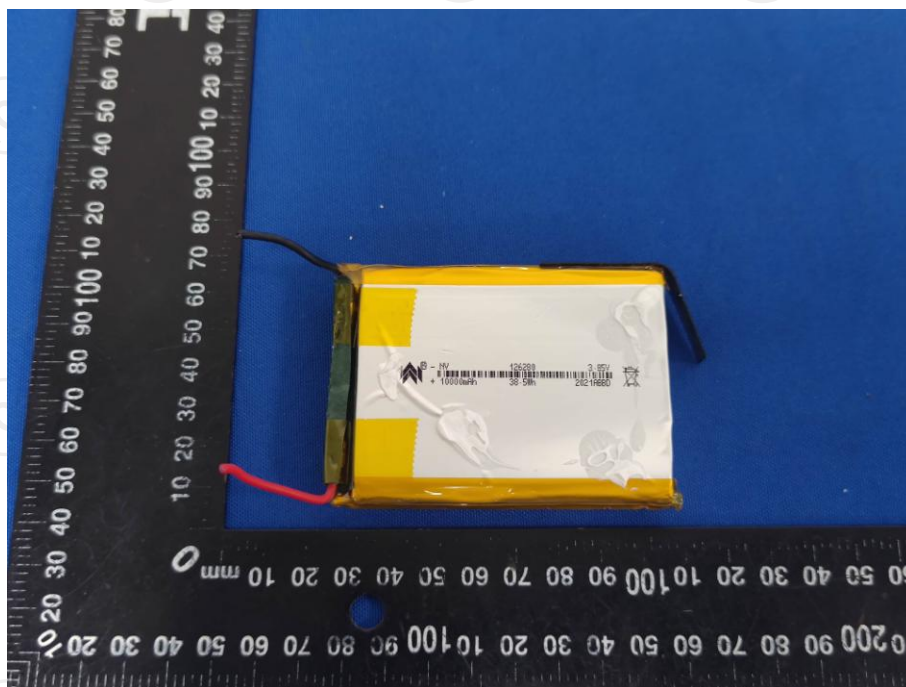


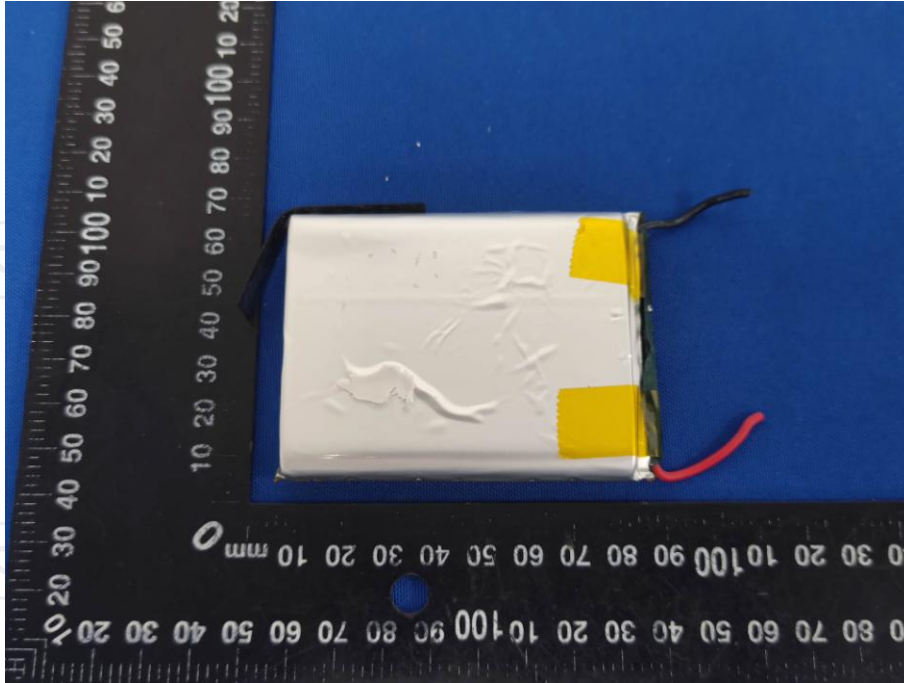
**Product: Power bank**  
**Model: T1151**  
**Internal Photos**











**\*\*\*\*\*END OF REPORT\*\*\*\*\***