



VCCI TEST REPORT

FOR

Power banks

Model : Amp

Trade Mark : N/A

Issued to

Flashbay Electronics

Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,
Huiyang District, Huizhou City, Guangdong Province, P.R.China

Issued by

WH Technology Corp.

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SUMMARY OF TEST RESULT

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1. GENERAL INFORMATION

Applicant : Flashbay Electronics
Address : Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village,
Shatian Town, Huiyang District, Huizhou City, Guangdong
Province, P.R.China
Manufacturer : Flashbay Electronics
Address : Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village,
Shatian Town, Huiyang District, Huizhou City, Guangdong
Province, P.R.China
Factory : Flashbay Electronics
Address : Building 2, Jixun Industrial Park, Xinjiao, Dong'ao Village,
Shatian Town, Huiyang District, Huizhou City, Guangdong
Province, P.R.China
EUT : Power banks
Model Name : Amp
Model Differences : N/A

MEASUREMENT PROCEDURE USED:

AGREEMENT OF VCCI : VCCI-CISPR 32
(TECHNICAL REQUIREMENTS CLASS B)

AGREEMENT OF VCCI : VCCI-CISPR 32

(INSTRUCTION FOR TEST CONDITIONS FOR EQUIPMENT UNDER TEST)

We hereby show that:

The measurements shown in this test report were made in accordance with and no deviation with the procedures indicated, and the maximum energy emitted by the equipment was found to be within the VCCI limits applicable.

This test result of this report applies to above tested sample only.

This test report shall not be reproducing in part without written approval of WH Certification Corp.

Reviewed by:



Dec. 19, 2024

(Date)

Bell Wei / Manager



1.1 DESCRIPTION OF THE TESTED SAMPLES

EUT

EUT Type : Engineer Type

Condition when received : Good Damage

EUT Name : Power banks

Model Number : Amp

Operating frequency: : Below 108 MHz (Declaration by Manufacturer)

Receipt Date : 12/12/2024

EUT Power Rating : AC Power
 DC 12V-24V Power
 DC 5V from PC
 DC 12V from Adapter
 DC powered by PC
 DC 5.0V, 3.0A Max. or DC 9.0V, 2.0A Max. powered
by Type-C port

I/O Port of EUT : N/A



1.2 SUMMARY OF TEST RESULT

Emission		
Test Standard	Test Item	Test Result
VCCI-CISPR 32:2016 Class B	Conducted Emission	N/A
VCCI-CISPR 32:2016 Class B	ISN	N/A
VCCI-CISPR 32:2016 Class B	Radiated Emission	Pass

1.3 TEST METHODOLOGY

EUT SYSTEM OPERATION

1. The EUT was configured according to ANSI C63.4 - 2003 Section 5.2, 7.1, 7.2 & CISPR 32 - 2015.
2. All I/O ports are connected to the appropriate peripherals.
3. Photos of test configuration please refer to appendix 1.
4. Perform the EMC testing procedures, and measure the maximum emission noise.



1.4 DESCRIPTION OF THE SUPPORT EQUIPMENTS

Setup Diagram

See test photographs attached in appendix I for the actual connections between EUT and support equipment.

Support Equipment

Peripherals Devices:

The EUT was configured according to V-4. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device):

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1	Adapter	AD16ZM	N/A	N/A	N/A	N/A	N/A
EUT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
1	Power banks	Amp	N/A	N/A	N/A	Unshielded 0.3m	N/A

Note: All the above equipment /cable were placed in worse case position to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.

1.5 FEATURES OF EUT: PLEASE REFER TO USER MANUAL OR PRODUCT SPECIFICATION.



2. INSTRUMENT AND CALIBRATION

2.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in the report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

2.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and. Other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

TABLE LIST OF TEST AND MEASUREMENT EQUIPMENT

Test Site	Instrument	Manufacturer	Model No.	S/N	Next Cal. Date
Conduction	Spectrum (9K~3GHz)	R&S	FSP3	833387/010	2025/09/08
	EMI Receiver	R&S	ESHS10	830223/008	2025/05/07
	LISN	Rolf Heine Hochfrequenztechnik	NNB-2/16z	98062	2025/05/12
	ISN	Schwarzbeck	8-Wire ISN CAT5	CAT5-8158-0094	2025/09/08
	RF Cable	N/A	N/A	EMI-3	2025/10/07
Radiation	Bilog antenna (30M~1G)	ETC	MCTD2786B	BLB16M040 04/JB-5-004	2025/04/20
	Double Ridged Guide Horn antenna (1G~18G)	ETC	MCTD 1209	DRH15N0 2009	2025/11/11
	Horn antenna (18G~26G)	com-power	AH-826	81000	2025/08/01



	Pre amplifier (30M~1G)	EMC INSTRUMENT	EMC9135	980334	2025/04/21
	Microwave Preamplifier (1G~18G)	EMC INSTRUMENT	EMC051845	980108&AT- 18001	2025/10/11
	Pre amplifier (18G~26G)	MITEQ	JS4-18002600-30 -5A	808329	2025/07/29
	EMI Test Receiver	R&S	ESVS30 (20M-1000MHz)	863342/012	2025/11/16
	RF Cable (open site)	EMCI	N male on end of both sides (EMI4)	30m	2025/10/07
	RF CABLE (1~26.5G)	HARBOUT INDUSTRIES	LL142MI (4M+4M)	NA	2025/02/24
	RF CABLE (1~26.5G)	HARBOUR INDUSTRIES	LL142MI(7M)	NA	2025/07/30
	Spectrum (9K~7GHz)	R&S	FSP7	830180/006	2025/02/13
	Spectrum (9K~40GHz)	AGILENT	8564EC	4046A0032	2024/12/23
Software	e3	AUDIX	N/A	N/A	N/A



2.3 TEST PERFORMED

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver which bandwidth is set at 9kHz.

Radiated emissions were investigated over the frequency range from 30MHz to 1000MHz using a receiver which bandwidth is set at 120kHz. 1000MHz to 6000MHz using a receiver which bandwidth is set at 1MHz, And Radiated measurement was performed at distance that from an antenna to EUT is 3meters.

2.4 APPENDIX

Appendix A: Measurement Procedure for Main Power Port Conducted Emissions

The measurements are performed in a WH lab room. The EUT was placed on non-conduction 1.0m x 1.5m table, which is 0.8 meters above an earth-grounded.

Power to the EUT was provided through the LISN which has the Impedance (50ohm/50uH) vs. Frequency Characteristic in accordance with the standard. Powers to the LISNs were filtered to eliminate ambient signal interference and these filters were bonded to the ground plane. Peripheral equipment required to provide a functional system (support equipment) for EUT testing was powered from the second LISN through a ganged, metal power outlet box which is bonded to the ground plane at the LISN.

If the EUT is supplied with a flexible power cord, the power cord length in excess of the distance separating the EUT from the LISN shall be folded back and forth at the center of the lead so as to form a bundle not exceeding 40cm in length. If the EUT is provided with a permanently coiled power cord, bundling of the cord is not required. If the EUT is supplied without a power cord, the EUT shall be connected to the LISN by a power cord of the type specified by the manufacturer which shall not be longer than 1 meter. The excess power cord shall be bundled as described above. If a non-flexible power cord is provided with the EUT, it shall be cut to the length necessary to attach the EUT to the LISN and shall not be bundled.

The interconnecting cables were arranged and moved to get the maximum measurement. Both the line of power cord, hot and neutral, was measured.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.



Appendix B: Test Procedure for Radiated Emissions

Preliminary Measurements in the Anechoic Chamber

The radiated emissions are initially measured in the anechoic chamber at a measurement distance of 3 meters. Desktop EUT are placed on a wooden stand 0.8 meter in height. The measurement antenna is 3 meters from the EUT. The test setup in anechoic chamber is the same as open site. The turntable rotated 360°. The antenna height is varied from 1-2.5m. The primary objective of the radiated measurements in the anechoic chamber is to identify the frequency spectrum in the absence of the electromagnetic environment existing on the open test site. The frequencies can then be pre-selected on the open test site to obtain the corresponding amplitude. The initial scan is made with the spectrum analyzer in automatic sweep mode. The spectrum peaks are then measured manually to determine the exact frequencies.

Measurements on the Open Site or Chamber

The radiated emissions test will then be repeated on the open site or chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipments are set up on the turntable. Desktop EUT are set up on a wooden stand 0.8 meter above the ground.

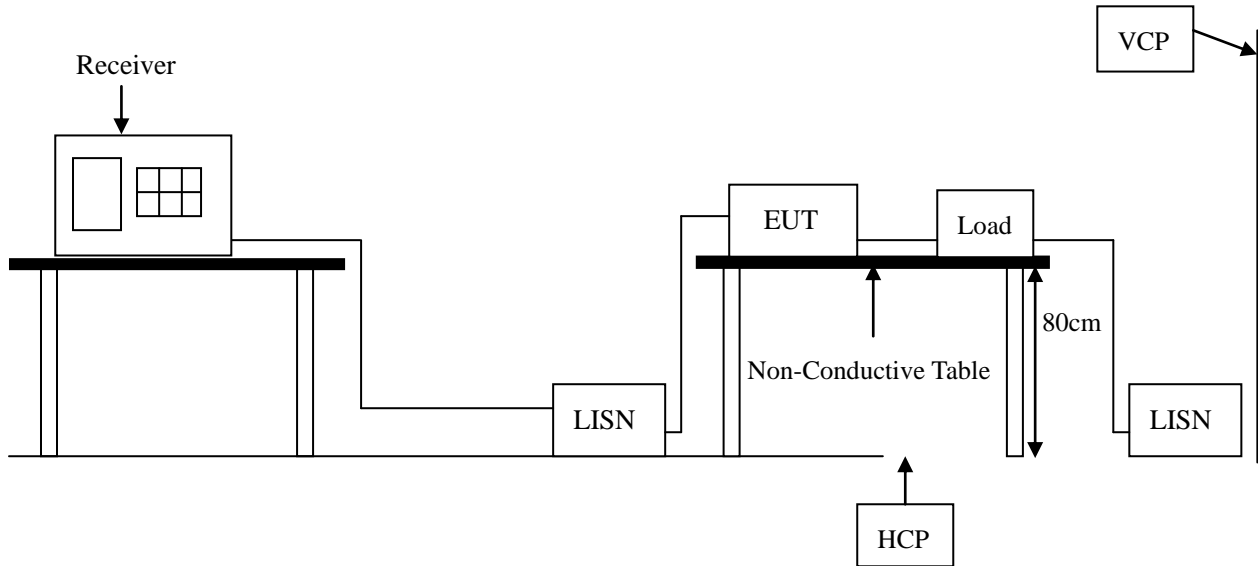
For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. Below 1GHz reading are recorded with the quasi-peak detector with 120kHz bandwidth. Above 1GHz reading are recorded with the quasi-peak detector with 1MHz bandwidth. For frequency between 30MHz and 6000MHz, the reading is recorded with peak detector or quasi-peak detector.

At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum measurement. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings.



3. CONDUCTED EMISSION MEASUREMENT

3.1 TEST SET-UP (PLEASE REFER TO APPENDIX 1)



3.2 LIMIT

Frequency range (MHz)	CLASS A	
	QP (dB(μV))	Average (dB(μV))
0.15 ~ 0.5	79 dBuV	66 dBuV
0.5 ~ 5.0	73 dBuV	60 dBuV
5.0 ~ 30.0	73 dBuV	60 dBuV

Note 1: 1μV/m is regarded as 0 dB.

Note 2: If the average limits is met in the measurement with quasi-peak detector, the measurement with average detector at the same frequency is unnecessary.

Note 3: The lower limit shall apply at the transition frequency.



Frequency range (MHz)	CLASS B	
	QP (dB(μV))	Average (dB(μV))
0.15 ~ 0.5	66 - 56 dBuV	56 - 46 dBuV
0.5 ~ 5.0	56 dBuV	46 dBuV
5.0 ~ 30.0	60 dBuV	50 dBuV

Note 1: 1μV/m is regarded as 0 dB.

Note 2: The limits shall decrease linearly with the logarithm of the frequency in the range 150kHz - 500kHz.

Note 3: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector is unnecessary.

Note 4: The lower limit shall apply at the transition frequency.

Remark: In the above table, the tighter limit applies at the band edges.

3.3 TEST PROCEDURE

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50 μH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50 μH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to Section 5.2.2 of V-3.regulation: The measurement procedure on conducted emission interference.

The resolution bandwidth of the field strength meter is set at 9kHz.

This test was performed at CDB-SJ (Conducted Interference Measurement), Registration No. : C-14909 and Registration No. : T-12389.



3.4 TEST SPECIFICATION

AGREEMENT OF VCCI FOR INTERFERENCE BY ITE.

3.5 EUT OPERATION

All the test configurations are shown in appendix 2 as follow.

3.6 RESULT: N/A

EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range:	150kHz ~ 30MHz	
Detector Function:	Quasi-Peak / Average	
Resolution Bandwidth:	9kHz	
Test Date:	/	/
Temperature:	/	/
Humidity:	/	/

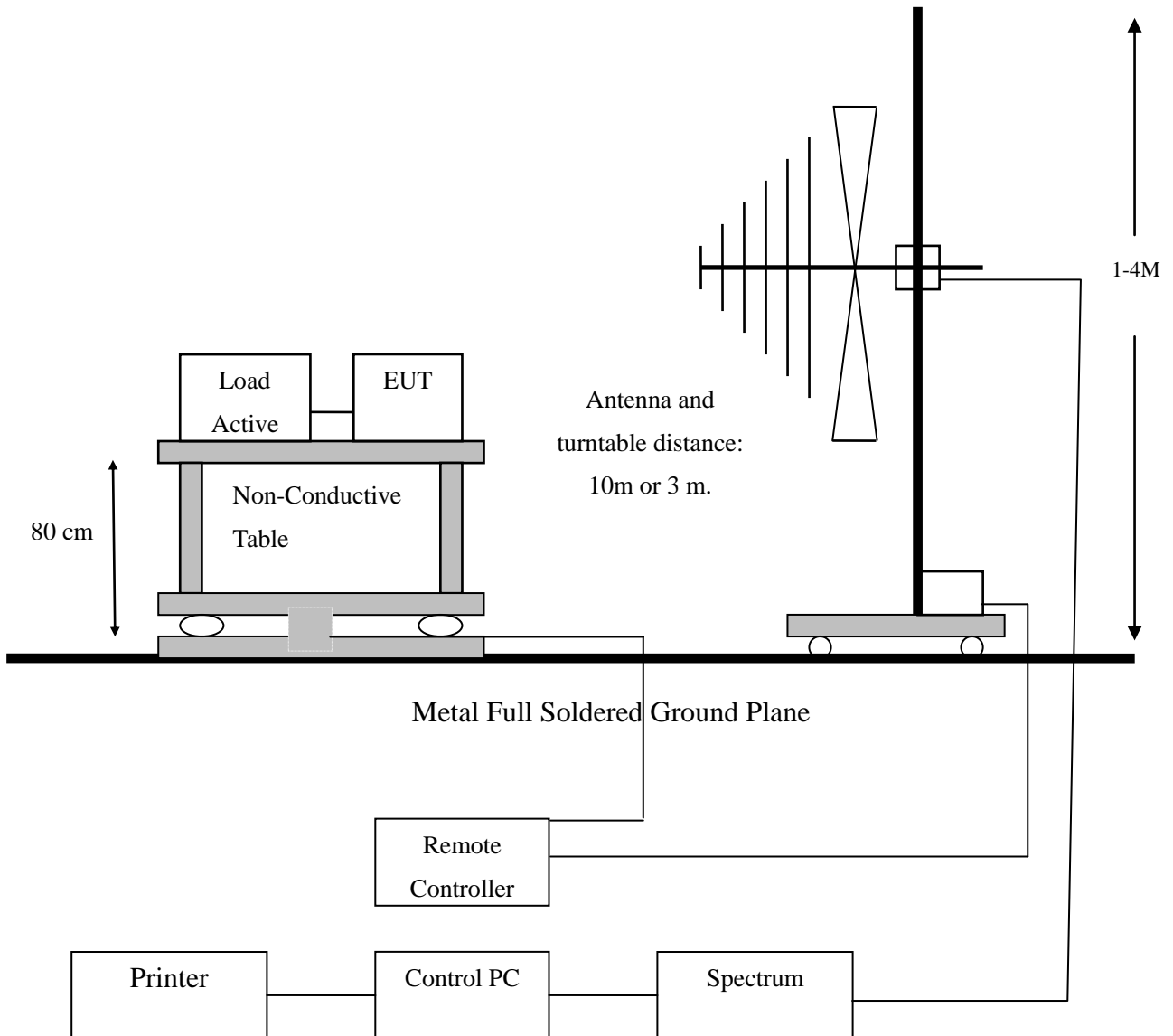
3.7 TEST DATA:

Please refer to appendix 1.



4. RADIATED EMISSION MEASUREMENT

4.1 TEST SETUP (PLEASE REFER TO APPENDIX 1)





4.2 LIMIT FOR RADIATED DISTURBANCE

4.2.1 BELOW 1 GHz

Frequency (MHz)	Class A	
	Distance (Meter)	Limit (dB μ V/m)
30 ~ 230	10	40
230 ~ 1000	10	47

Note 1: The lower limit shall apply at the transition frequency.

Note 2: A Measuring distance of 10 m is primary requirement.

However, distance of either 3m or 30m may also be allowed for the measurement with facilities registered as such in accordance with the regulations for voluntary .if the measuring distance is 3m, add 10dB to the quasi-peak limit above. If the measuring distance is 30m, subtract 10dB from the quasi-peak limit above.

Note 3: 1 μ V/m is regarded as 0 dB.

Frequency (MHz)	Class B	
	Distance (Meter)	Limit (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

Note 1: The lower limit shall apply at the transition frequency.

Note 2: A Measuring distance of 10 m is primary requirement.

However, distance of either 3m or 30m may also be allowed for the measurement with facilities registered as such in accordance with the regulations for voluntary .if the measuring distance is 3m, add 10dB to the quasi-peak limit above. If the measuring distance is 30m, subtract 10dB from the quasi-peak limit above.

Note 3: 1 μ V/m is regarded as 0 dB.

Remark: In the above table, the tighter limit applies at the band edges



4.2.2 ABOVE 1 GHz

Limits for radiated disturbance of Class A ITE at a measurement distance of 3 m

Frequency GHz	Average limit dB(μ V/m)	Peak limit dB(μ V/m)
1 ~ 3	56	76
3 ~ 6	60	80

NOTE 1: The lower limit applies at the transition frequency.

NOTE 2: 1 μ V/m is regarded as 0 dB.

NOTE 3: If the average limit is met in the measurement with peak detector, the measurement with average detector at the same frequency is unnecessary.

NOTE 4: Other than 3m(dm) measurement, use the equation followings,
 $E_{3m} = E_{dm} + 20\log(d/3)$ dBuV/m d: measurement distance(m).

Limits for radiated disturbance of Class B ITE at a measurement distance of 3 m

Frequency GHz	Average limit dB(μ V/m)	Peak limit dB(μ V/m)
1 ~ 3	50	70
3 ~ 6	54	74

NOTE 1: The lower limit applies at the transition frequency.

NOTE 2: 1 μ V/m is regarded as 0 dB.

NOTE 3: If the average limit is met in the measurement with peak detector, the measurement with average detector at the same frequency is unnecessary.

NOTE 4: Other than 3m(dm) measurement, use the equation followings,
 $E_{3m} = E_{dm} + 20\log(d/3)$ dBuV/m d: measurement distance(m).



4.3 TEST PROCEDURE

The EUT and its simulators are placed on turn table, non-conductive and wooden table, which is 0.8 meter above ground. The turn table rotates 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that distance from antenna to the EUT is 10 meters. For the frequency range is above 1 GHz, the EUT was positioned such that distance from antenna to the EUT is 3 meters.

The antenna is moved up and down between 1 meter and 4 meters to receive the maximum emission level.

Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission, all of the interference cables must be manipulated according to EN 55032 regulation: the test procedure of the radiated emission measurement.

The bandwidth set on the field strength is 120kHz when the frequency range is below 1GHz. The bandwidth set on the field strength is 1MHz when the frequency range is above 1GHz.

The radiated test was performed at WH Lab's Open Site (OSA-SS)

This site was authorized by VCCI, Registration No.: R-14418&G-20015.

4.4 TEST SPECIFICATION

AGREEMENT OF VCCI FOR INTERFERENCE BY ITE.

4.5 EUT OPERATION

All the test configurations are shown in appendix 2 as follow.



4.6 RESULT: PASSED

EMI Receiver/Spectrum Analyzer Configuration (for the frequencies tested)

Frequency Range:	30MHz ~ 1GHz	1GHz ~ 6GHz
Detector Function:	Quasi-Peak	Peak / Average
Resolution Bandwidth:	120kHz	1MHz
Test Date:	Dec. 17, 2024	/
Temperature:	24.3 °C	/
Humidity:	51% RH	/

4.7 TEST DATA:

Please refer to appendix 1.



5. MEASUREMENT UNCERTAINTY

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9kHz ~ 30MHz	LINE/NEUTRAL	1.78 dB
Radiated Emission	30MHz ~ 1,000MHz	Horizontal	3.59 dB
		Vertical	3.89 dB
	1,000MHz ~ 18GHz	Horizontal	5.00 dB
	1,000MHz ~ 18GHz	Vertical	4.64 dB

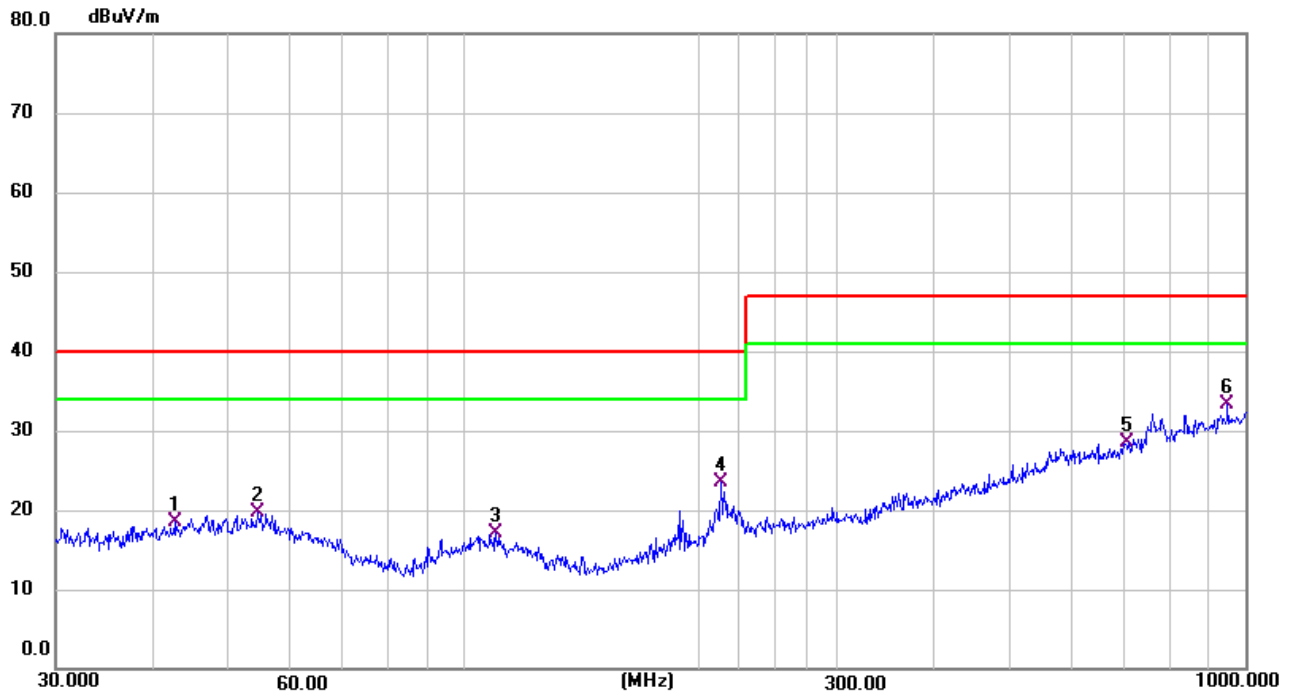


APPENDIX 1

SUMMARY OF TEST RESULT

Mode: Charging

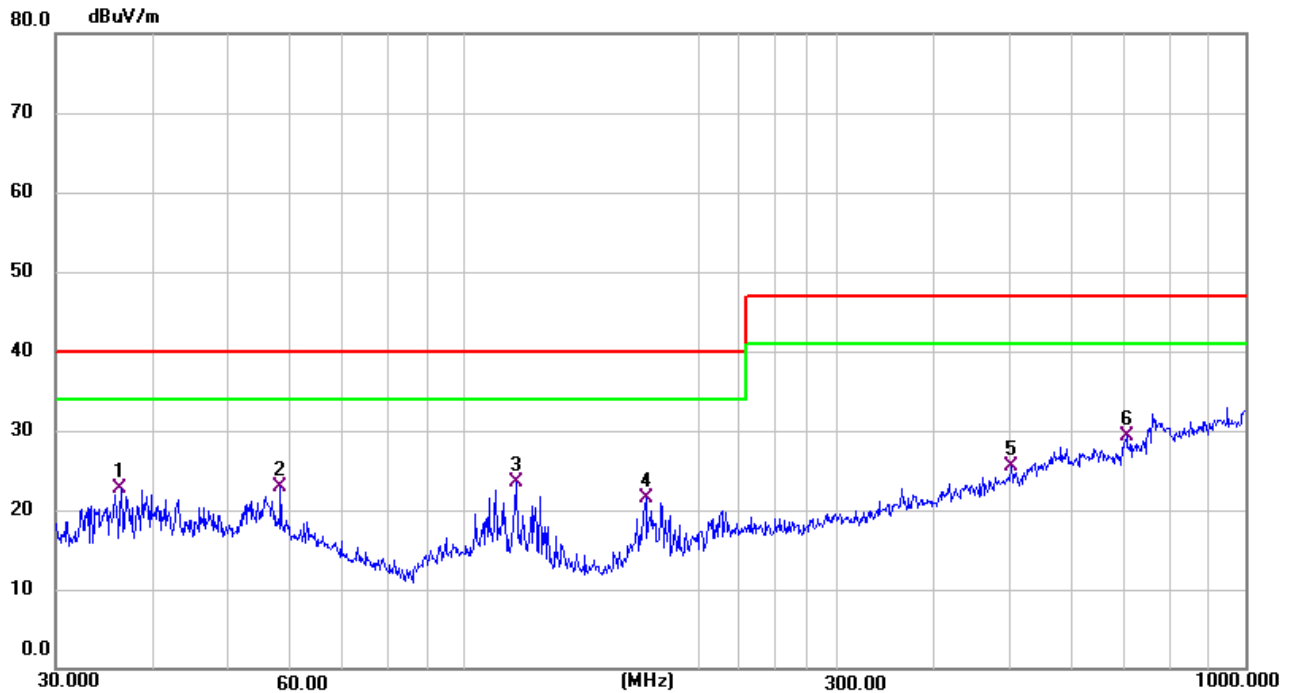
Test Data Of Radiated Emission Measurement Below 1GHz (Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.6000	-0.64	19.23	18.59	40.00	-21.41	QP			P	
2	54.4520	0.08	19.67	19.75	40.00	-20.25	QP			P	
3	109.7960	-0.63	17.67	17.04	40.00	-22.96	QP			P	
4	213.0150	5.20	18.36	23.56	40.00	-16.44	QP			P	
5	709.1820	1.02	27.45	28.47	47.00	-18.53	QP			P	
6 *	948.7610	2.49	30.90	33.39	47.00	-13.61	QP			P	



Test Data Of Radiated Emission Measurement Below 1GHz (Vertical)

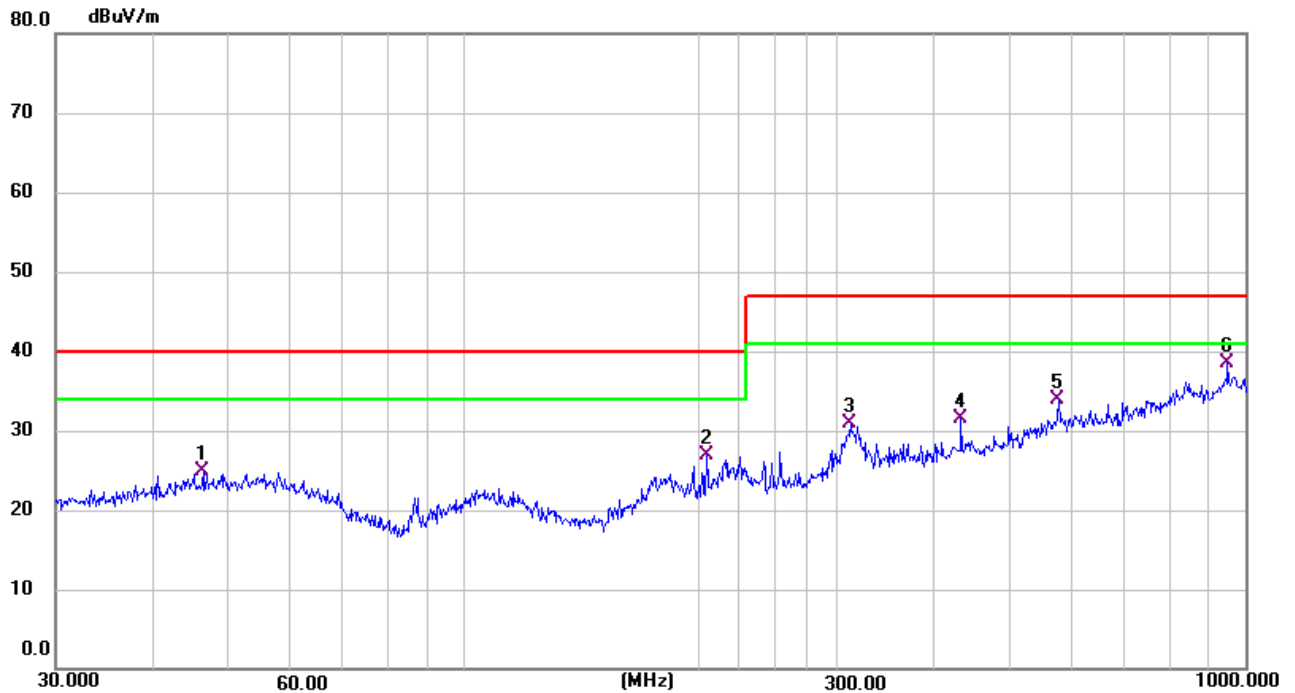


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	36.3809	5.06	17.63	22.69	40.00	-17.31	QP			P	
2	58.2030	3.55	19.37	22.92	40.00	-17.08	QP			P	
3 *	116.5400	6.26	17.16	23.42	40.00	-16.58	QP			P	
4	170.7930	5.99	15.49	21.48	40.00	-18.52	QP			P	
5	501.1790	0.89	24.54	25.43	47.00	-21.57	QP			P	
6	704.2260	1.54	27.79	29.33	47.00	-17.67	QP			P	



Mode: Discharging(5V)

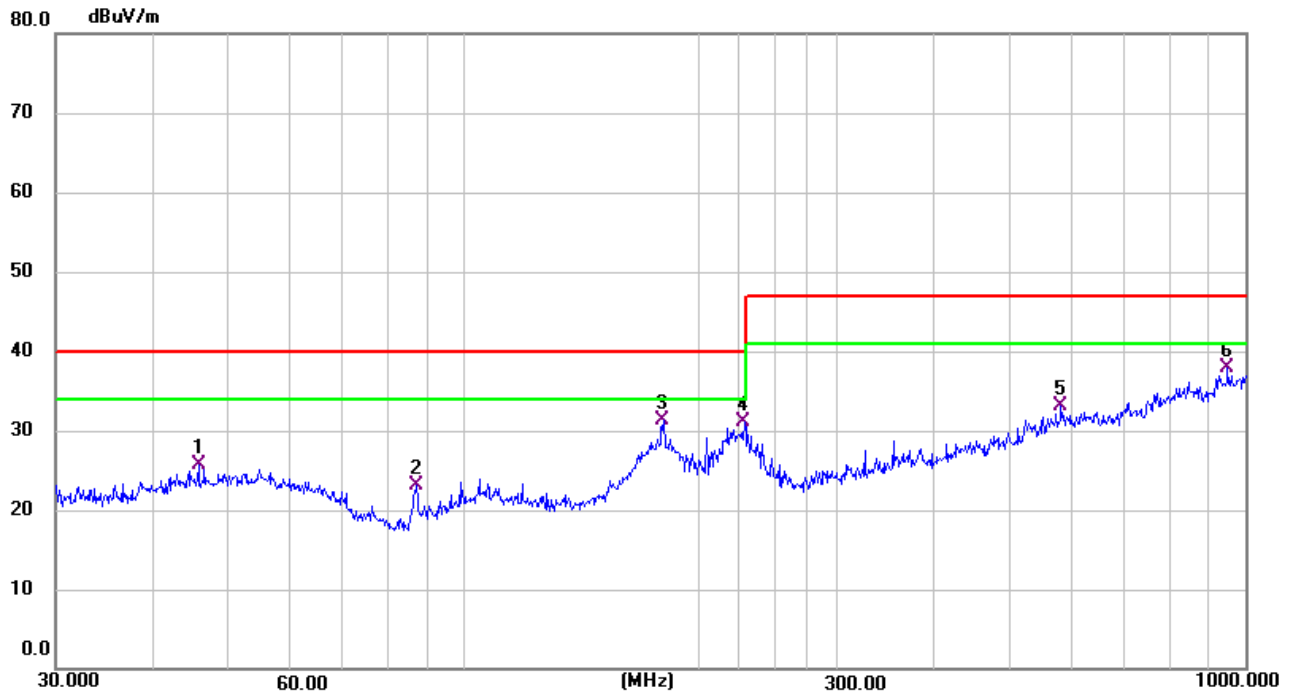
Test Data Of Radiated Emission Measurement Below 1GHz (Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	46.3400	5.50	19.41	24.91	40.00	-15.09	QP			P	
2	204.2380	9.76	17.14	26.90	40.00	-13.10	QP			P	
3	312.1790	10.82	20.08	30.90	47.00	-16.10	QP			P	
4	432.5460	8.69	22.88	31.57	47.00	-15.43	QP			P	
5	576.6440	7.30	26.61	33.91	47.00	-13.09	QP			P	
6 *	948.7610	7.58	30.90	38.48	47.00	-8.52	QP			P	



Test Data Of Radiated Emission Measurement Below 1GHz (Vertical)

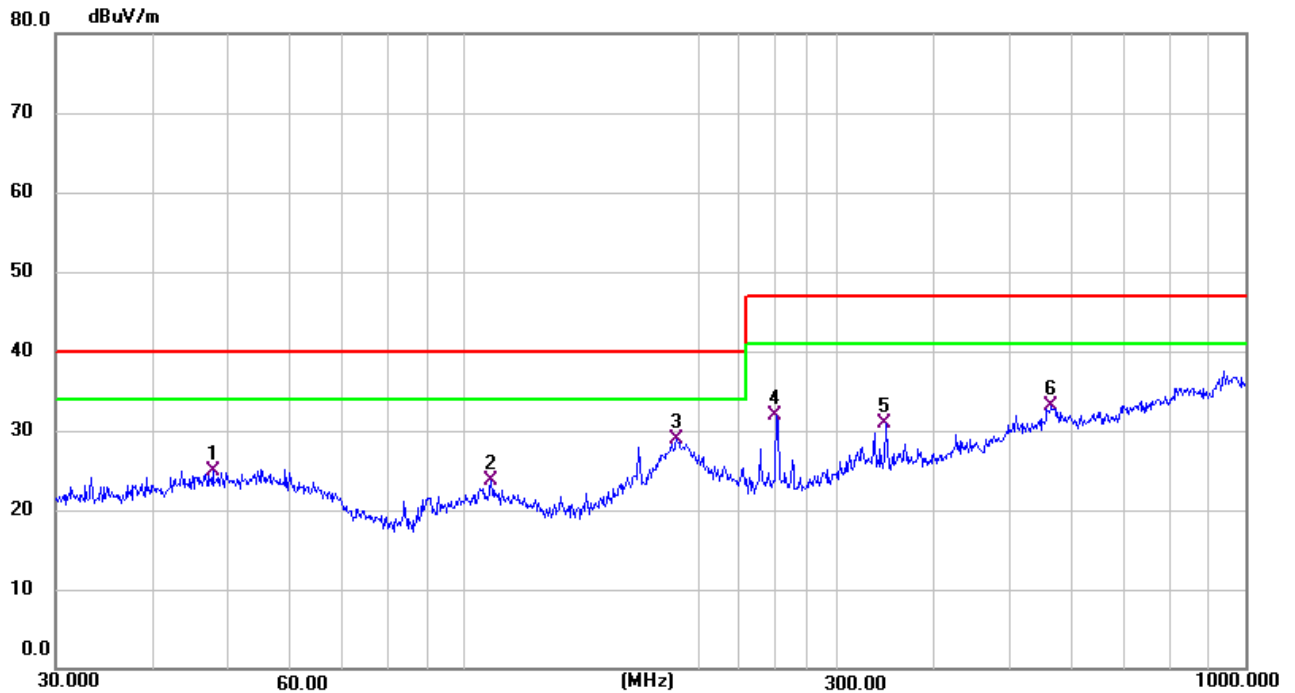


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.6950	6.27	19.37	25.64	40.00	-14.36	QP			P	
2	86.8070	8.46	14.56	23.02	40.00	-16.98	QP			P	
3 *	180.0160	15.36	15.94	31.30	40.00	-8.70	QP			P	
4	228.4900	12.36	18.76	31.12	40.00	-8.88	QP			P	
5	580.7030	6.47	26.71	33.18	47.00	-13.82	QP			P	
6	948.7610	7.06	30.90	37.96	47.00	-9.04	QP			P	



Mode: Discharging(9V)

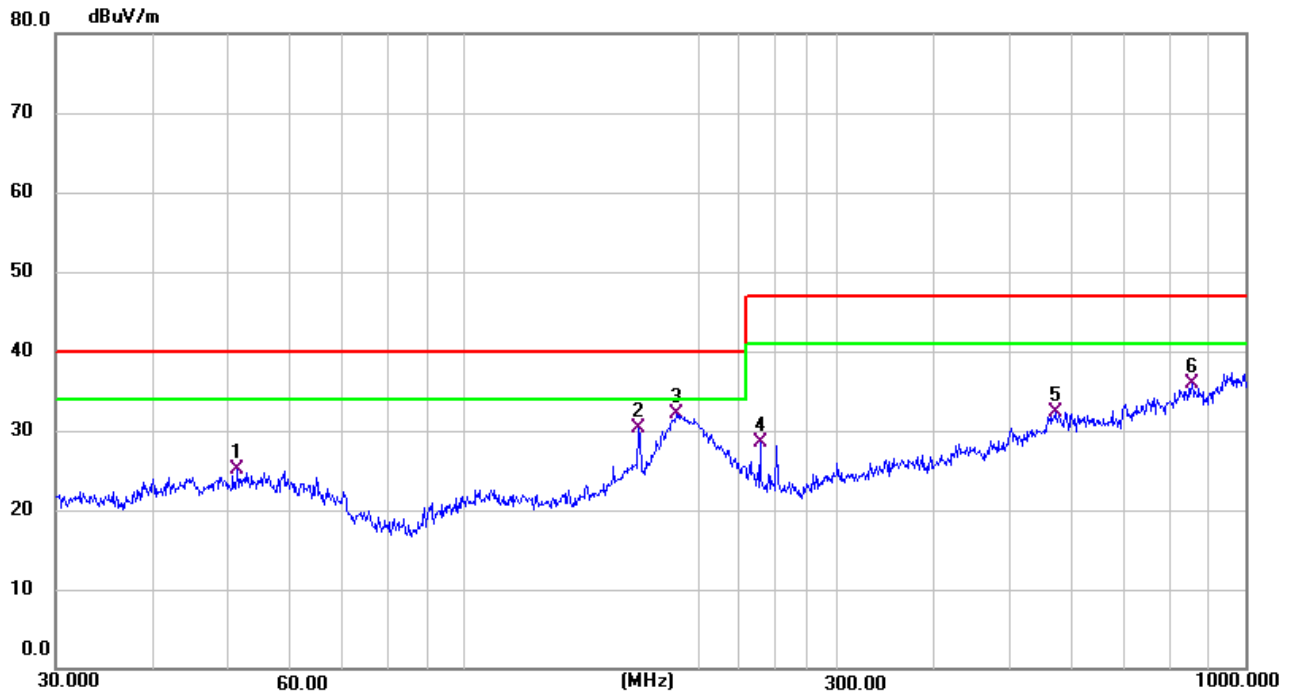
Test Data Of Radiated Emission Measurement Below 1GHz (Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.6590	5.29	19.67	24.96	40.00	-15.04	QP			P	
2	108.2670	5.73	17.90	23.63	40.00	-16.37	QP			P	
3 *	187.0960	12.14	16.84	28.98	40.00	-11.02	QP			P	
4	251.1800	12.80	19.02	31.82	47.00	-15.18	QP			P	
5	346.8090	9.66	21.32	30.98	47.00	-16.02	QP			P	
6	564.6390	6.78	26.24	33.02	47.00	-13.98	QP			P	



Test Data Of Radiated Emission Measurement Below 1GHz (Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	51.3010	5.67	19.51	25.18	40.00	-14.82	QP			P	
2	167.2370	15.26	15.00	30.26	40.00	-9.74	QP			P	
3 *	187.0960	15.17	16.84	32.01	40.00	-7.99	QP			P	
4	239.1470	9.37	19.06	28.43	47.00	-18.57	QP			P	
5	572.6140	5.62	26.64	32.26	47.00	-14.74	QP			P	
6	854.0250	6.10	29.77	35.87	47.00	-11.13	QP			P	



APPENDIX 2

THE TEST PHOTOGRAPH

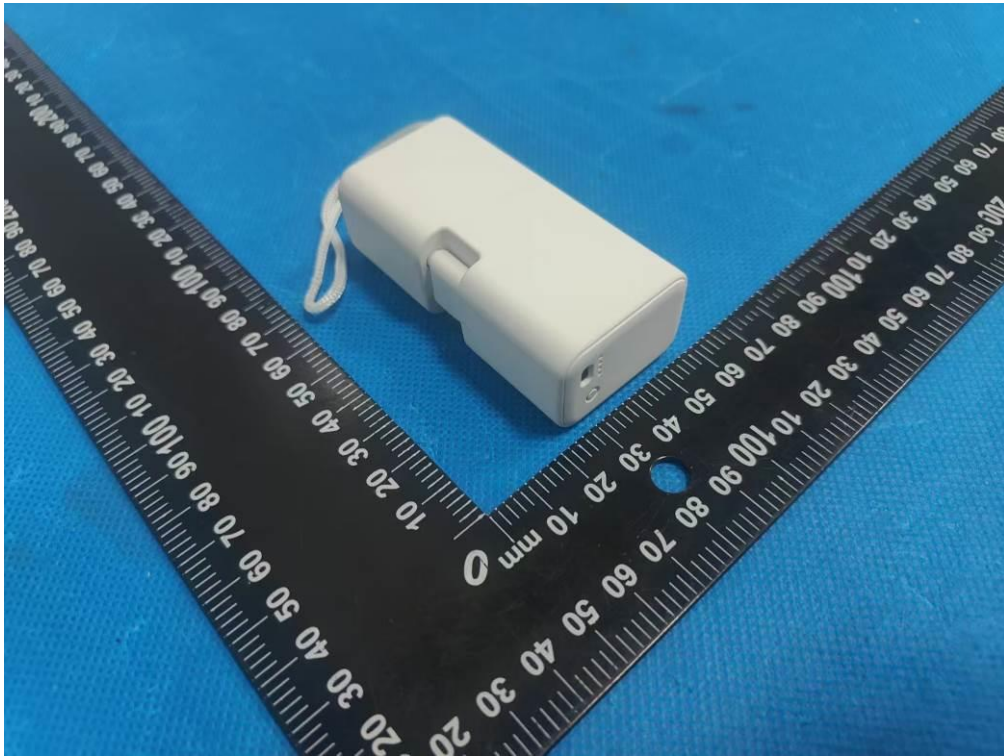
Radiated Emission Test Setup

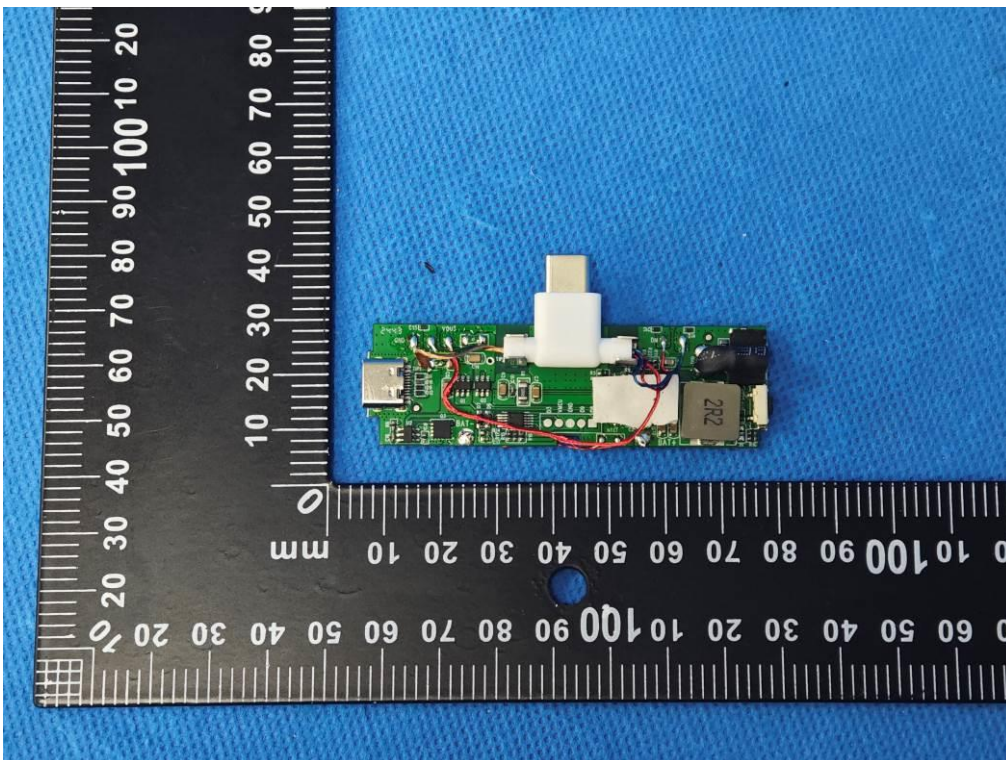
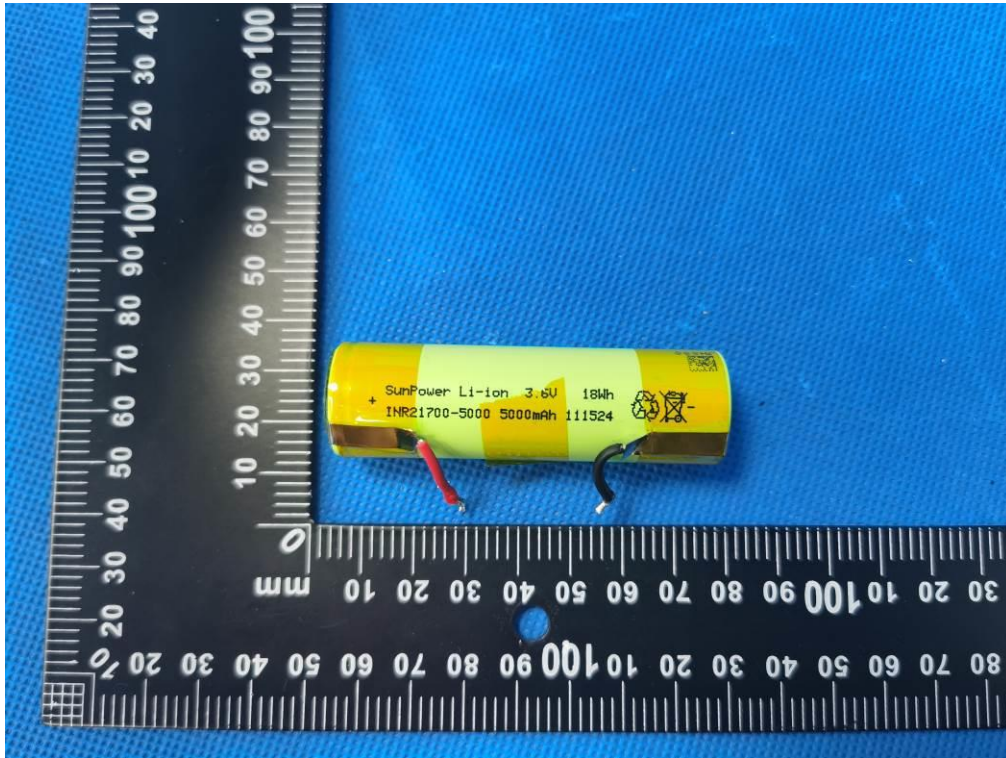


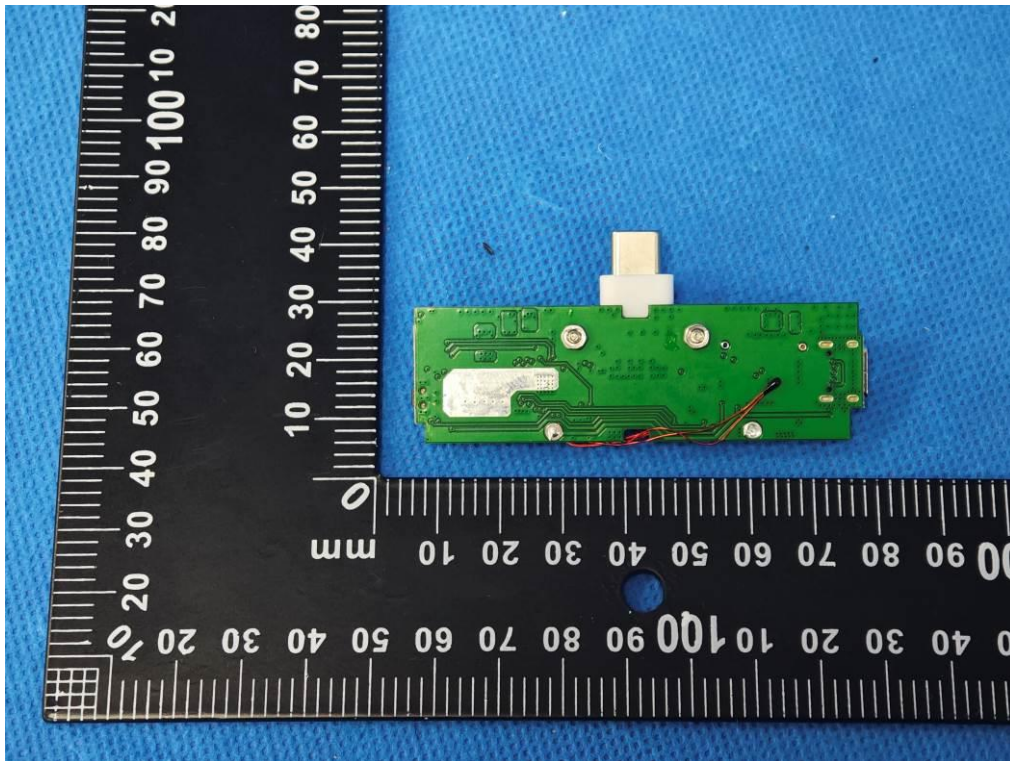


APPENDIX 3 THE DETAIL PHOTOGRAPH OF EUT











**** EMC Test Result: The EUT has been passed the all measurements. ****

The uncertainty is calculated in accordance with CISPR16-4-2, the total uncertainty for this test is as follows:

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9kHz ~ 30MHz	LINE / NEUTRAL	1.78 dB
Radiated Emission	30MHz ~ 1,000MHz	Vertical / Horizontal	1.96 dB
	1,000MHz ~ 6,000MHz	Vertical / Horizontal	3.00 dB



LABELING REQUIREMENT OF VCCI

Class B ITE shall have the following message on a visible location on each product. In the event that direct marking is difficult, a tag may be used.

