

FCC Supplier's Declaration of Conformity (SDoC) Test Report

Shenzhen XTAR Electronics Co., Ltd

L8 BOX Battery Charging Case

Test Model: L8 BOX

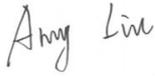
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Address : 5th Floor, No.77 Xinhe Rd, Shangmugu, Pinghu Area, Longgang District, Shenzhen, Guangdong, China

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Date of receipt of test sample : October 17, 2025
Number of tested samples : 1
Serial number : Prototype
Date of Test : October 17, 2025-October 21, 2025
Date of issue : October 22, 2025



FCC SDoC TEST REPORT CFR47 FCC Part 15 Subpart B Radio Frequency Devices - Unintentional Radiators		
Testing Laboratory :	Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.	
Test Specification:		
Standard :	CFR47 FCC Part 15 Subpart B ANSI C63.4-2014	
Equipment Under Test :	L8 BOX Battery Charging Case	
Trademark :	N/A	
Test Model/Type :	L8 BOX	
Rating :	Input: DC 5V, 3A Output 1: 1.2V Ni-MH 1.45V 0.5A*8 Output 2: 1.5V Li-ion 5V 0.5A*6/0.38A*8	
Test Results	PASS	
Tested by :	Zom Zhang (Engineer)	
Supervised by :	Kris Mai (Engineer)	
Check by :	Amy Liu (Technique principal)	
Approved by	Dm Gu (Manager)	
Test Report Form No :	TRF-4-E-001 Ver. A/1	
TRF Originator :	Shenzhen Southern LCS Compliance Testing Co., Ltd.	
Master TRF :	/	
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FCC SDoC - TEST REPORT

Test Report No.....:	LCSB10165028E
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Applicant.....:	Shenzhen XTAR Electronics Co., Ltd
Address.....:	5th Floor, No.77 Xinhe Rd, Shangmugu, Pinghu Area, Longgang District, Shenzhen, Guangdong, China
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General disclaimer:

The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. The test report merely corresponds to the test sample.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the test are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. the climatic conditions during the test were in the following Limits:

Ambient temperature	10°C - 40°C
Relative Humidity air	10% - 90%

Climate values will be recorded and recorded separately if specifically required in the base standard or application product/product series standard.

POSSIBLE TEST CASE VERDICTS

Test cases does not apply to test object	N/A
Test object does meet requirement	P(Pass) / PASS
Test object does not meet requirement	F(Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

<input checked="" type="checkbox"/> Indicate that the conditions, standards or equipment listed is applicable to this report / test / EUT.
<input type="checkbox"/> Indicate that the conditions, standards or equipment listed is not applicable to this report / test / EUT.

REVISION HISTORY

Revision	Issue Date	Revision Content	Revised by
000	October 22, 2025	Initial Issue	-

Remark:
000) : “---”

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF THE ITEM(S)

Equipment Under Test	L8 BOX Battery Charging Case
Test Model/Type	L8 BOX
Additional Models/Type	--
Description of Model difference	--
Rating	Input: DC 5V, 3A Output 1: 1.2V Ni-MH 1.45V 0.5A*8 Output 2: 1.5V Li-ion 5V 0.5A*6/0.38A*8
Classification of device	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B

Model List:

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1.2. OPERATING MODE(S) USED OF TESTS

During the tests, the following operating mode(s) has(have) been used.

Operating Mode	Operating Mode description	Used for testing
1	Working(DC 5V From USB Host Unit)	<input checked="" type="checkbox"/>
2	Working(DC 3.7V From battery)	<input type="checkbox"/>
3	HDMI	<input type="checkbox"/>
4	Full load	<input type="checkbox"/>

Note: Output 1.2V*4+1.5V*4

1.3. SUPPORT / AUXILIARY EQUIPMENT FOR THE EUT

EUT has been tested using the following auxiliary equipment :

Manufacturer	Description	Model	Serial Number
Xiaomi Communication Technology Co., LTD	Power adapter	MDY-12-EF	TA62305N201 981G

1.4. DESCRIPTION OF TEST FACILITY

Test Location	Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.
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2. STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. the reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. the measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. the manufacturer has the sole responsibility of continued compliance of the device.

Measurement	Uncertainty (U_{lab})	Uncertainty (U_{cispr})
Conducted disturbance (150kHz - 30MHz)	± 2.80 dB	± 3.6 dB
Radiated disturbance (30MHz - 200MHz)	± 4.66 dB	± 5.2 dB
Radiated disturbance (200MHz - 1GHz)	± 4.64 dB	± 5.0 dB

Supplementary information:

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICES AND TEST EQUIPMENT

CONDUCTED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	No. 1 shielded Room	CHENGYU	843	/	2023-04-26	2026-04-25
2	EMI Test Receiver	R&S	ESCI	101142	2025-04-18	2026-04-17
3	10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2025-04-18	2026-04-17
4	Artificial Mains Network	SCHWARZBECK	NSLK 8127	8127716	2025-04-18	2026-04-17
5	Artificial Mains Network	SCHWARZBECK	NSLK 8163	00043	2025-04-18	2026-04-17
6	Impedance Stabilization Network	SCHWARZBECK	NTFM 8158	NTFM8158#120	2025-04-18	2026-04-17
7	Voltage Probe	SCHWARZBECK	KT 9420	9420401	2025-04-18	2026-04-17
8	EMI Test Software	EZ	EZ_EMG	N/A	/	/

RADIATED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-04-28	2027-04-27
2	EMI Test Receiver	R&S	ESCI3	101010	2025-04-18	2026-04-17
3	Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2025-04-19	2026-04-18
4	EMI Test Software	EZ	EZ_EMG	N/A	/	/
5	Controller system	SKET	SKC1000	N/A	/	/

4. VERDICT SUMMARY SECTION

This chapter present an overview of the standards and results. Refer the next chapter for details of measured test results and applied test levels.

4.1. STANDARD(S)

CFR47 FCC Part 15 Subpart B - Radio frequency devices Subpart B - Unintentional radiators.

ANSI C63.4-2014 - American national standard for methods of measurement of radio noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.

4.2. OVERVIEW OF RESULTS

EMISSION TESTS - CFR47 FCC Part 15 Subpart B		
Requirement - Test case	Limit	Verdict
Conducted Disturbance	Clause 15.107	PASS
Radiated Disturbance	Clause 15.109	PASS

Supplementary information : ---

5.2. RADIATED DISTURBANCE

Standard	CFR47 FCC Part 15 Subpart B
Referenced Standard(s)	ANSI C63.4-2014
Test method	Semi Anechoic Chamber (SAC)

SAC Radiated disturbance limit for Class B equipment (3 m distance)

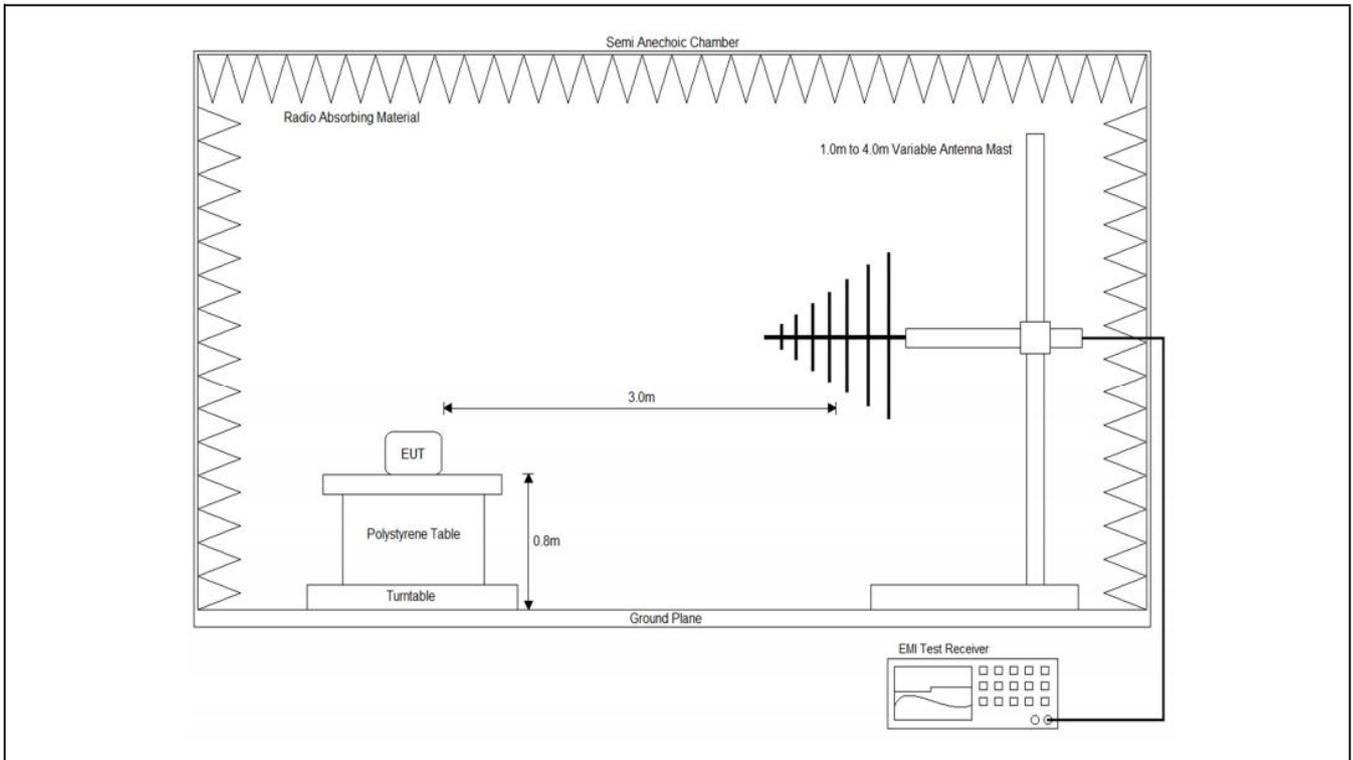
Frequency range [MHz]	Limit: Quasi-peak		IF BW
	[$\mu\text{V}/\text{m}$]	[dB($\mu\text{V}/\text{m}$)]	
30 - 88	100	40	120 KHz
88 - 216	150	43.5	
216 - 960	200	46	
960 - 1000	500	54	

SAC Radiated disturbance limit for Class A equipment (10 m distance)

Frequency range [MHz]	Limit: Quasi-peak		IF BW
	[$\mu\text{V}/\text{m}$]	[dB($\mu\text{V}/\text{m}$)]	
30 - 88	90	39	120 KHz
88 - 216	150	43.5	
216 - 960	210	46.5	
960 - 1000	300	49.5	

- 1) At the transition frequency, the lower limit applies.
- 2) Emission level (dB) μV = 20 log Emission level $\mu\text{V}/\text{m}$.

Test configuration



Test Procedure Description

Radiated Emissions were measured 3 metres away from the EUT in the Semi Anechoic Chamber facility, which is an ANSI C63.4 compliant semi-anechoic chamber with ground plane. The EUT was placed on a non-conductive table, at a height of 0.8m above the ground plane. the turntable 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 an antenna tower. the antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Log-periodic antenna or horn antenna is used as a receiving antenna. both horizontal and vertical polarization of the antenna is set on test.

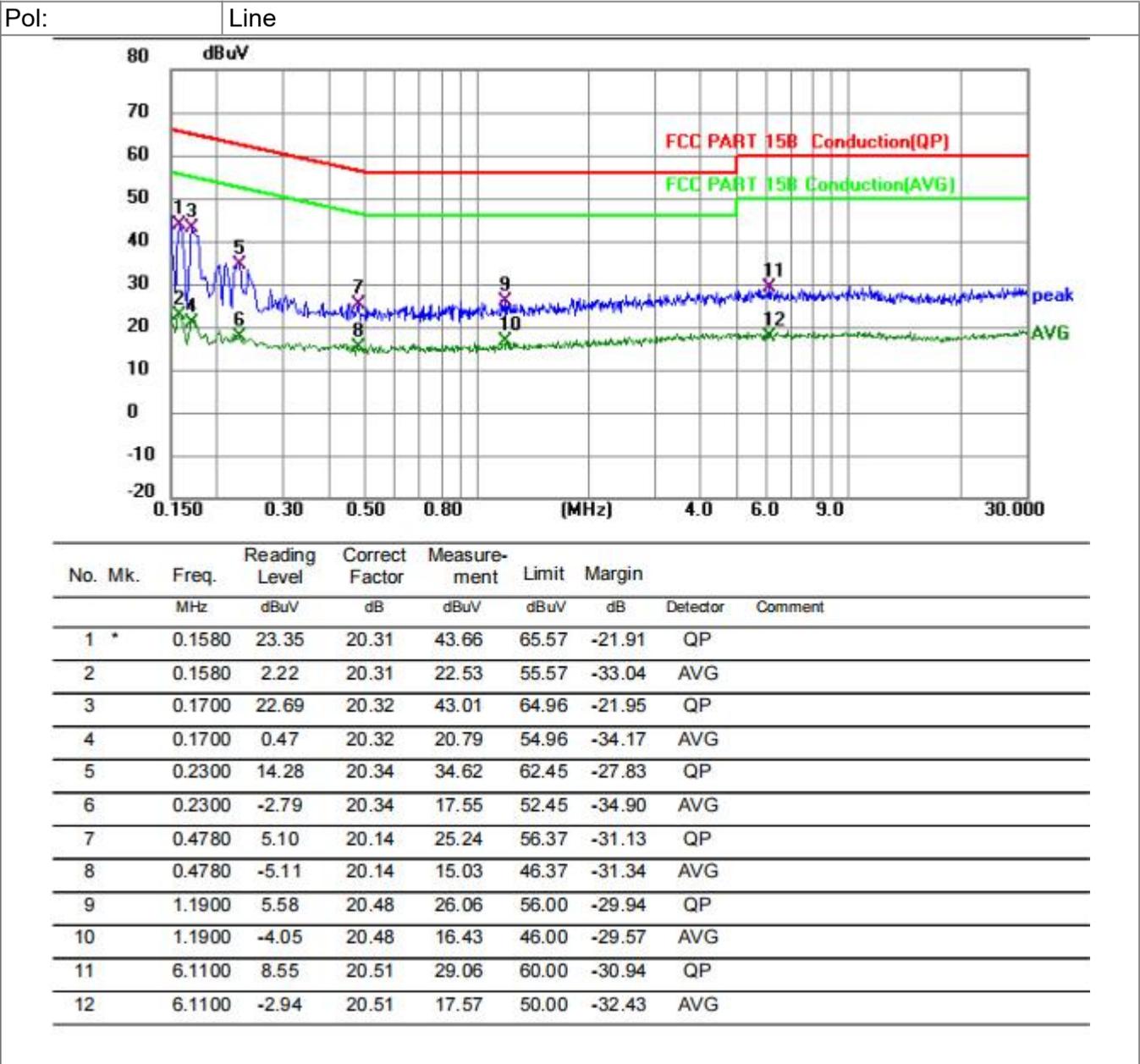
Test Results refer to Annex A.2

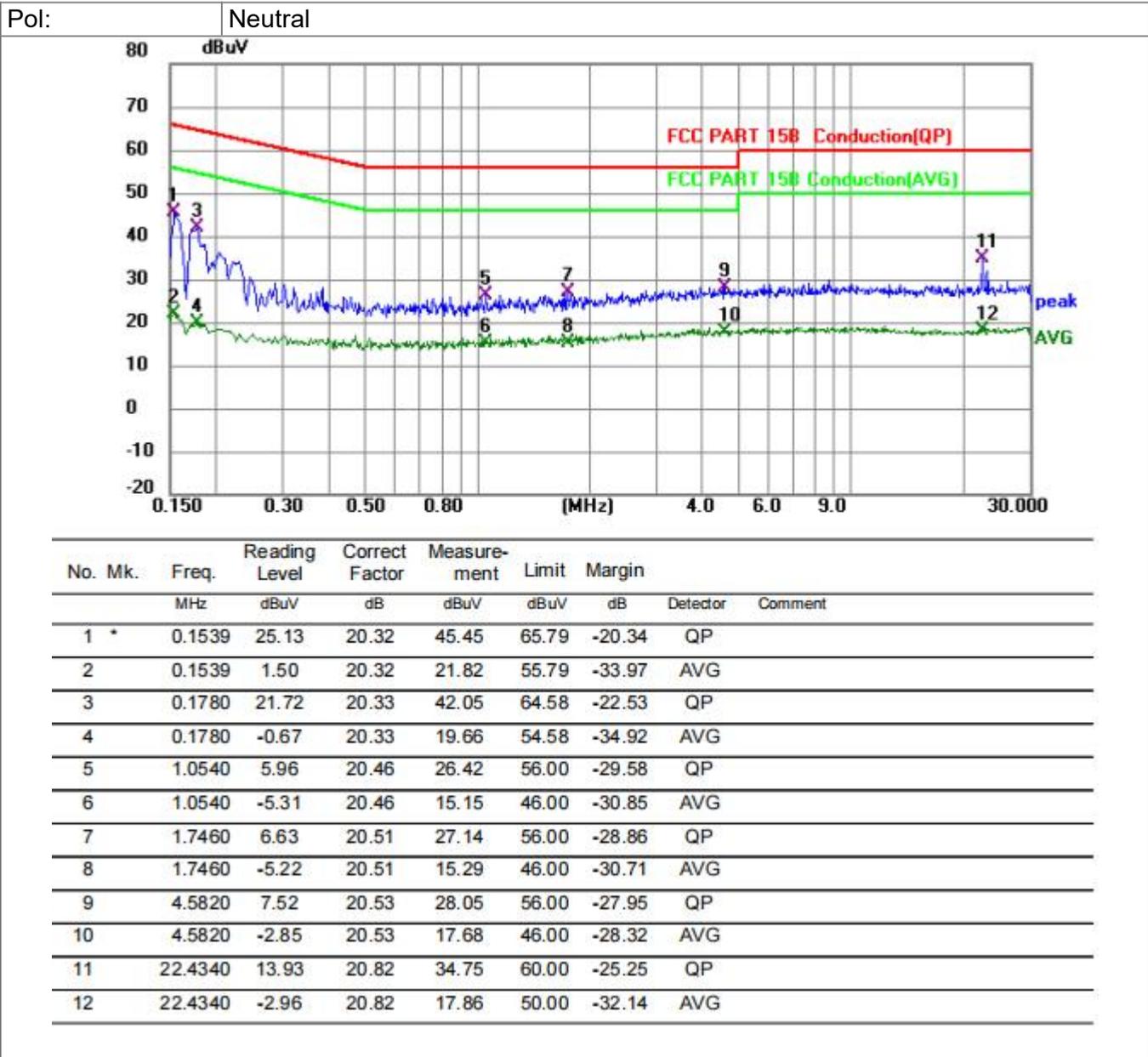
ANNEX A - TEST RESULTS

A.1. CONDUCTED DISTURBANCE TEST RESULTS

This Test Environment Conditions: 22.7°C, 53.7%RH

M/N: L8 BOX
 Input voltage: DC 5V From USB Host Unit
 Operating mode: Mode 1





Remark:

Level=Reading Level + Correction Factor

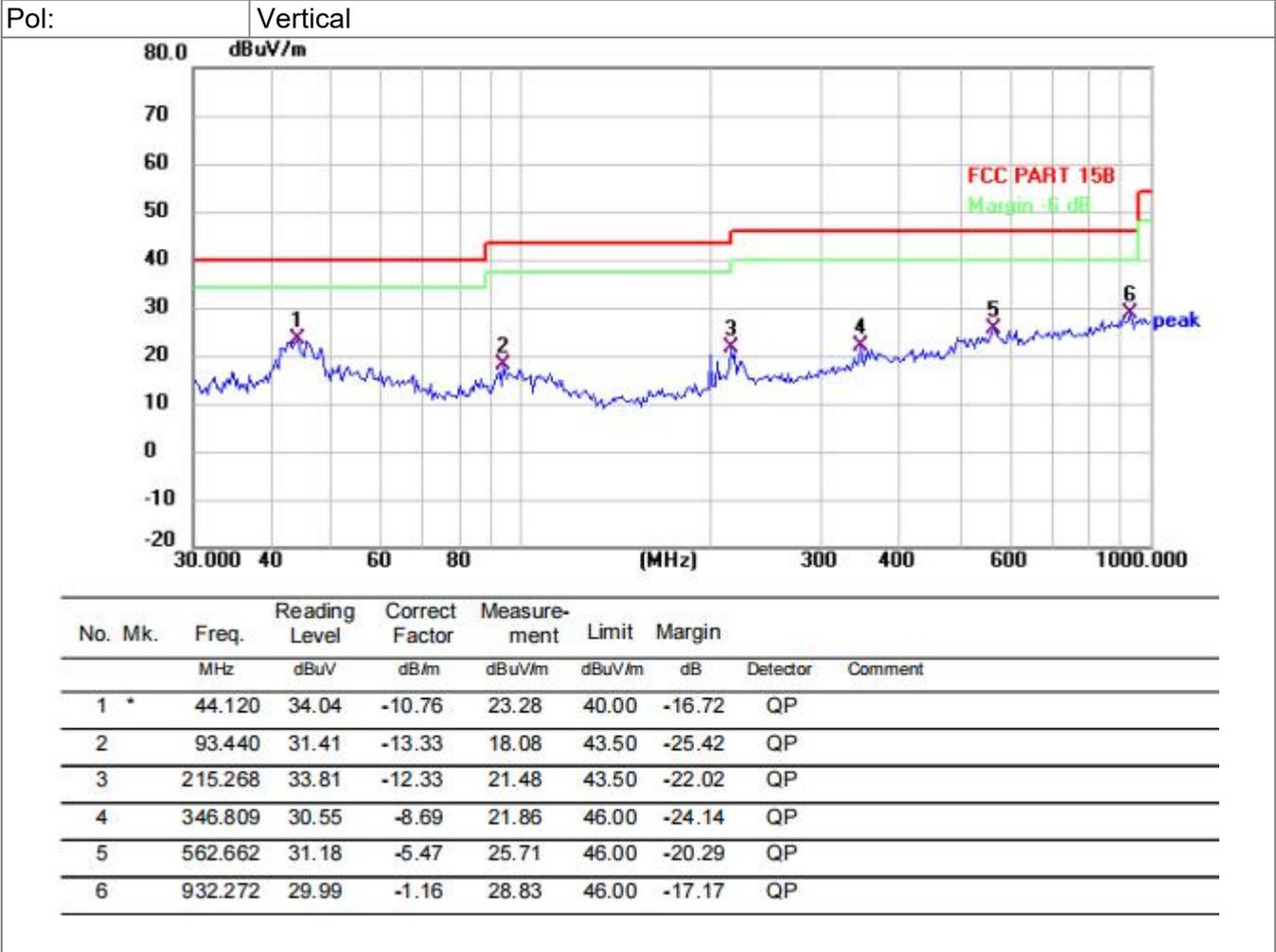
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

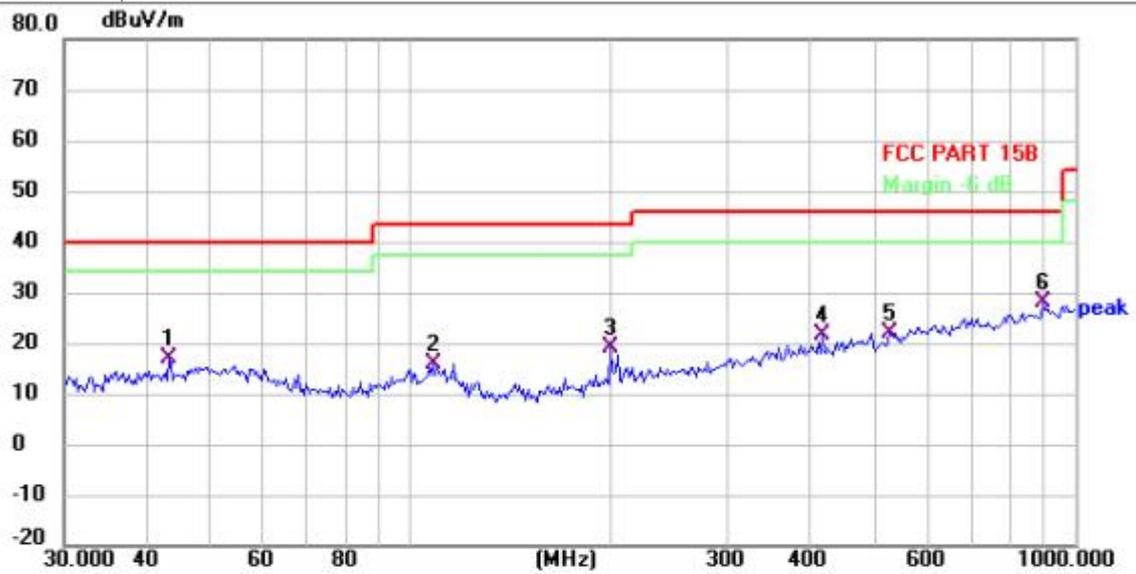
A.2. RADIATED DISTURBANCE TEST RESULTS

This Test Environment Conditions: 23.6°C , 52.3%RH

M/N: L8 BOX
 Input voltage: DC 5V From USB Host Unit
 Operating mode: Mode 1



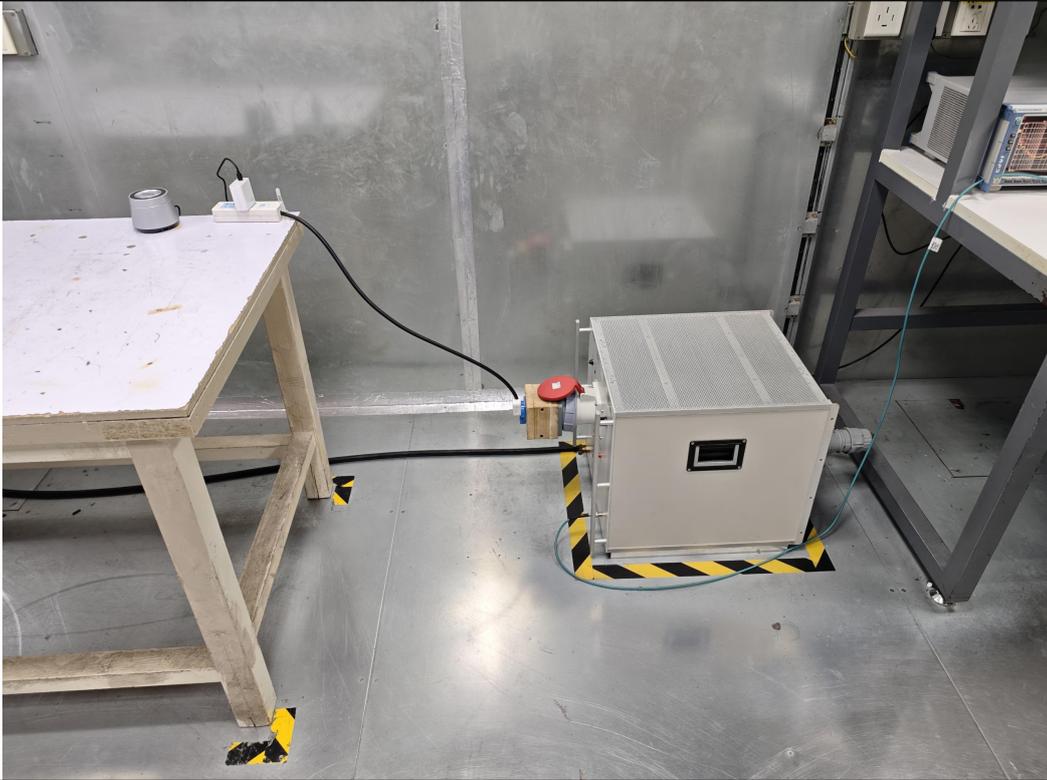
Pol: Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	43.202	27.77	-10.94	16.83	40.00	-23.17	QP	
2	108.267	27.25	-11.36	15.89	43.50	-27.61	QP	
3	199.286	32.53	-13.38	19.15	43.50	-24.35	QP	
4	416.179	29.26	-7.64	21.62	46.00	-24.38	QP	
5	524.554	28.08	-6.02	22.06	46.00	-23.94	QP	
6 *	893.857	29.49	-1.28	28.21	46.00	-17.79	QP	

ANNEX B - TEST PHOTOS

B.1. Conducted Disturbance



B.2. Radiated Disturbance



ANNEX C - EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1



Fig. 2



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

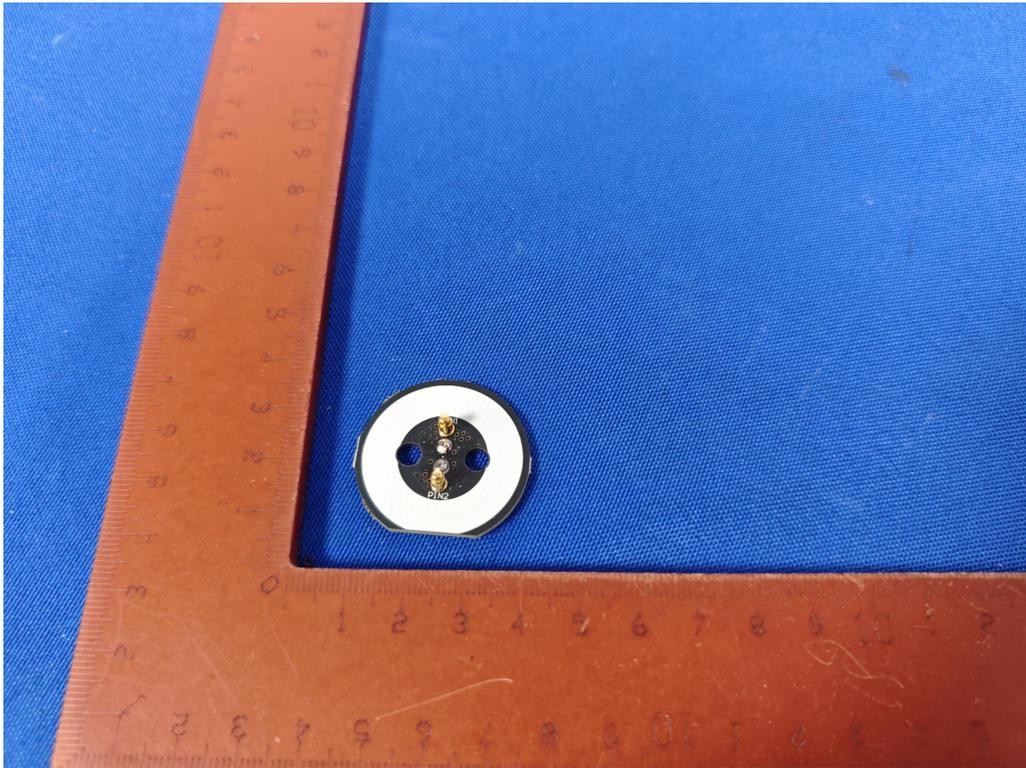


Fig. 11

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