



FCC TEST REPORT

Livekraft Electronics Private Limited.

MCS01

Test Model: MANA-CLUE-V

Prepared for : Livekraft Electronics Private Limited.
Address : 919, 4th Cross, 16th Main, MICO Layout BTM 2nd Stage, Bangalore Karnataka, India 560076

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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Date of receipt of test sample : January 08, 2025
Number of tested samples : 2
Sample No. : A250121029-1, A250121029-2
Serial number : Prototype
Date of Test : January 08, 2025 ~ February 08, 2025
Date of Report : February 10, 2025



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FCC TEST REPORT

FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014

Report Reference No. : LCSA01105001E**Date Of Issue..... : February 10, 2025****Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.****Address..... :** Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China**Testing Location/ Procedure.... :** Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : Livekraft Electronics Private Limited.****Address..... :** 919, 4th Cross, 16th Main, MICO Layout BTM 2nd Stage, Bangalore Karnataka, India 560076**Test Specification****Standard..... : FCC 47 CFR Part 15 Subpart B, Class B ANSI C63.4 -2014****Test Report Form No..... : TRF-4-E-010 A/0****TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.****Master TRF..... : Dated 2011-03****SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. All rights reserved.**

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Test Item Description..... : MCS01**Trade Mark..... : Livekraft****Test Model : MANA-CLUE-V****Ratings..... : Input: DC 5V
DC 3.7V by Li-ion Battery(400mAh)****Result : Positive****Compiled by:**

Martin Lee/ Administrator

Supervised by:

Jack Liu/ Technique principal

Approved by:

Gavin Liang/ Manager



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**FCC TEST REPORT****Test Report No. : LCSA01105001E****February 10, 2025**

Date of issue

Test Model : MANA-CLUE-V

EUT..... : MCS01

Applicant..... : Livekraft Electronics Private Limited.Address..... : 919, 4th Cross, 16th Main, MICO Layout BTM 2nd Stage,
Bangalore Karnataka, India 560076

Telephone..... : /

Fax..... : /

Manufacturer..... : Livekraft Electronics Private Limited.Address..... : 919, 4th Cross, 16th Main, MICO Layout BTM 2nd Stage,
Bangalore Karnataka, India 560076

Telephone..... : /

Fax..... : /

Factory..... : Livekraft Electronics Private Limited.Address..... : 919, 4th Cross, 16th Main, MICO Layout BTM 2nd Stage,
Bangalore Karnataka, India 560076

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 6: Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	February 10, 2025	Initial Issue	---





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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:

Mode 1	charging mode	Record
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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : MCS01

Trade Mark : Livekraft

Test Model : MANA-CLUE-V

Ratings : Input: DC 5V
DC 3.7V by Li-ion Battery(400mAh)

Highest internal frequency (Fx) : Fx > 1 GHz

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 × Fx up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.



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2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050 200UU	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A

2.4. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

2.5. 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.



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2.6. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) 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. TEST RESULTS

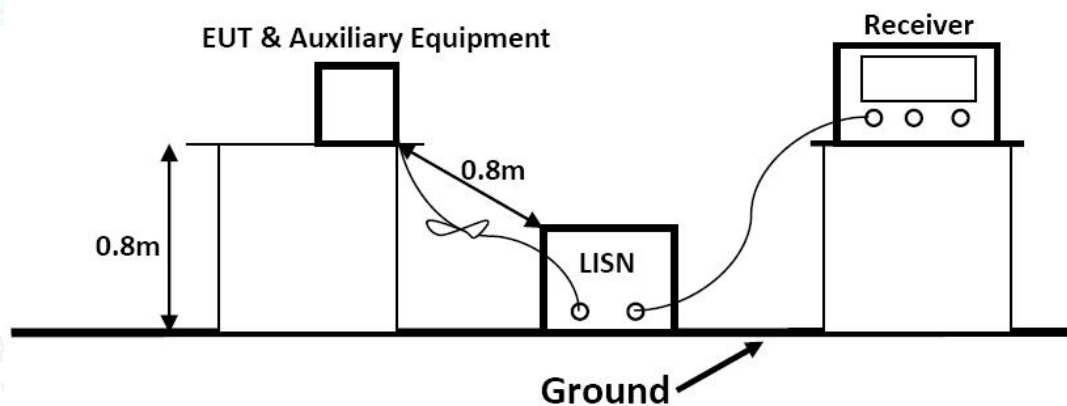
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2024-03-02	2025-03-01
3	Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
4	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2024-10-08	2025-10-07

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Mode 1 and measure it.



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3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 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 C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7. Test Results

PASS.

The test result please refer to the next page.



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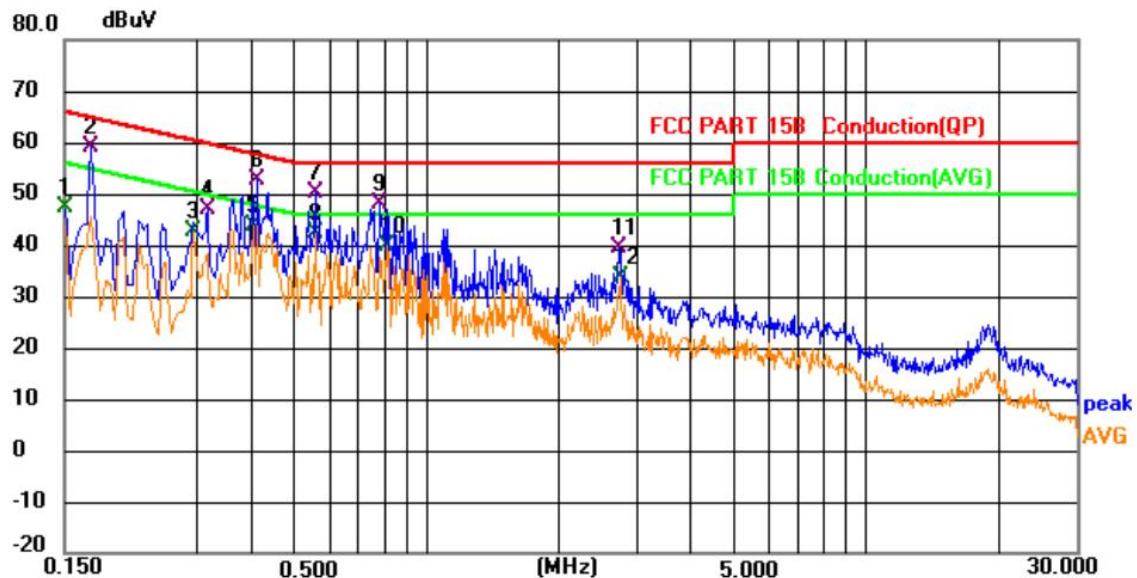
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Test Model	MANA-CLUE-V	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Jerry Chu
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.150	27.60	19.89	47.49	56.00	-8.51	AVG	
2		0.172	39.25	19.79	59.04	64.86	-5.82	QP	
3		0.294	22.80	19.80	42.60	50.41	-7.81	AVG	
4		0.317	27.22	19.85	47.07	59.79	-12.72	QP	
5		0.402	23.86	20.01	43.87	47.81	-3.94	AVG	
6		0.411	32.56	20.01	52.57	57.63	-5.06	QP	
7		0.559	30.46	19.65	50.11	56.00	-5.89	QP	
8	*	0.559	22.78	19.65	42.43	46.00	-3.57	AVG	
9		0.780	28.78	19.12	47.90	56.00	-8.10	QP	
10		0.811	20.88	19.09	39.97	46.00	-6.03	AVG	
11		2.728	20.19	19.16	39.35	56.00	-16.65	QP	
12		2.756	14.64	19.17	33.81	46.00	-12.19	AVG	



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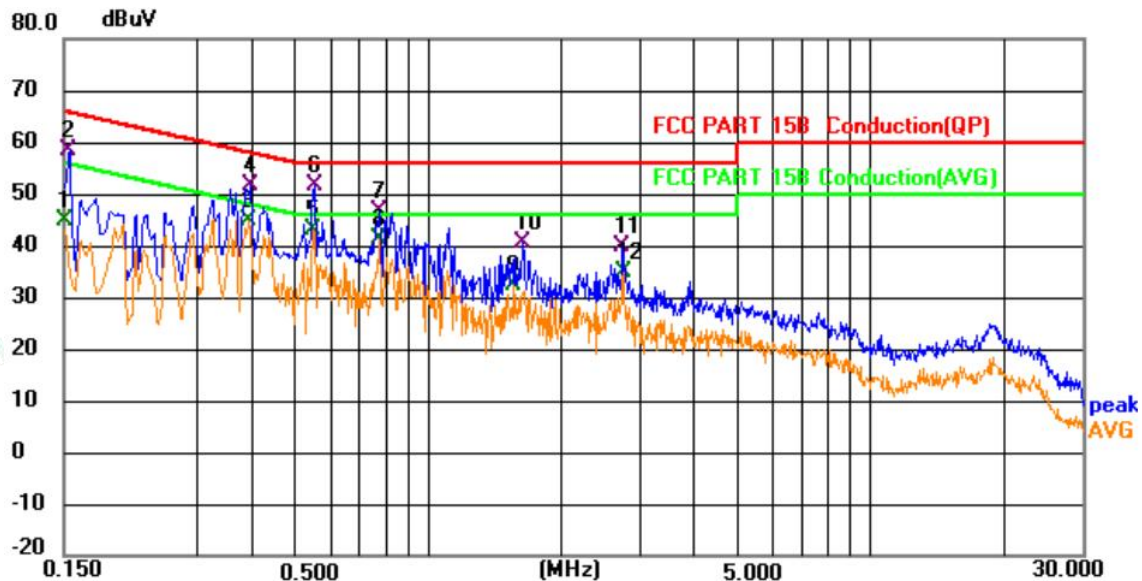
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Test Model	MANA-CLUE-V	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Jerry Chu
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.150	25.10	19.59	44.69	56.00	-11.31	AVG	
2		0.154	38.84	19.60	58.44	65.79	-7.35	QP	
3		0.393	25.01	19.84	44.85	48.00	-3.15	AVG	
4		0.398	31.77	19.84	51.61	57.90	-6.29	QP	
5	*	0.550	23.56	19.42	42.98	46.00	-3.02	AVG	
6		0.555	32.19	19.42	51.61	56.00	-4.39	QP	
7		0.775	27.42	19.26	46.68	56.00	-9.32	QP	
8		0.775	21.98	19.26	41.24	46.00	-4.76	AVG	
9		1.567	13.32	19.00	32.32	46.00	-13.68	AVG	
10		1.639	21.63	19.02	40.65	56.00	-15.35	QP	
11		2.742	20.69	19.03	39.72	56.00	-16.28	QP	
12		2.760	15.64	19.03	34.67	46.00	-11.33	AVG	

Note: Margin= Reading level + Correct factor – Limit
Correct Factor= Lism Factor+Cable Factor



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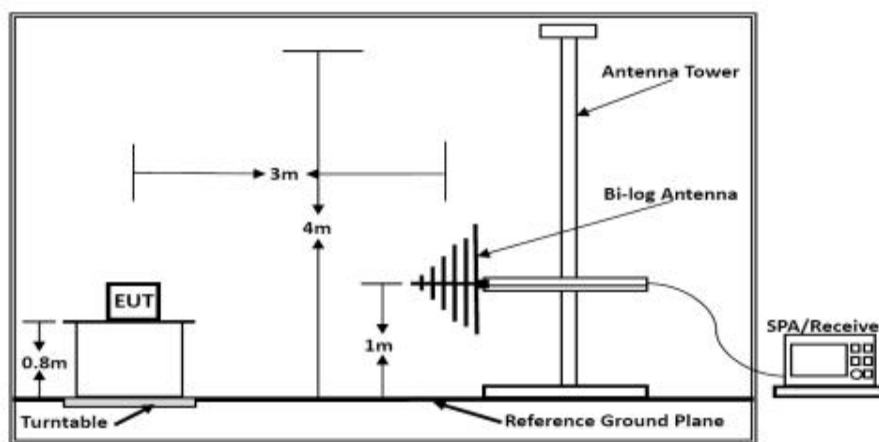
3.2. Radiated emission Measurement

3.2.1. Test Equipment

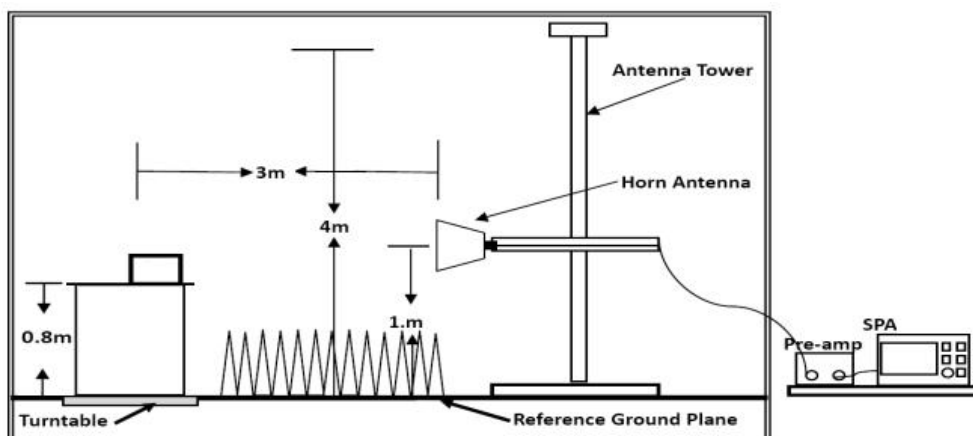
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-06	2025-06-05
3	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
6	EMI Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
7	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
8	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024-10-08	2025-10-07
10	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.



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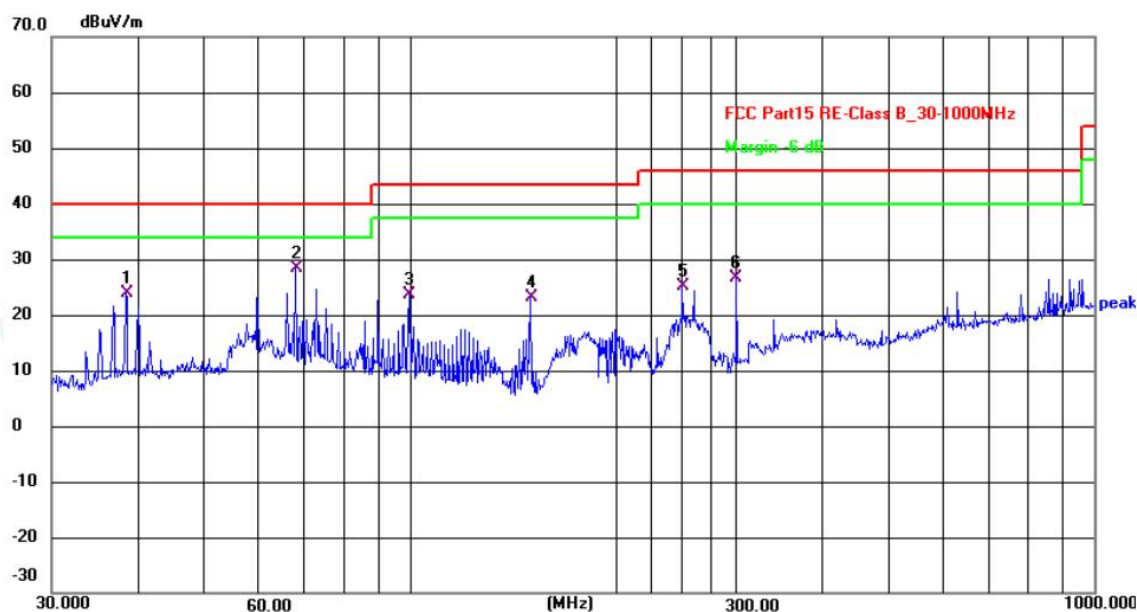
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Test Model	MANA-CLUE-V	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Jerry Chu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4809	41.01	-17.13	23.88	40.00	-16.12	QP
2	68.1514	46.86	-18.58	28.28	40.00	-11.72	QP
3	99.8777	41.15	-17.51	23.64	43.50	-19.86	QP
4	150.0108	44.15	-20.92	23.23	43.50	-20.27	QP
5	250.3011	42.20	-17.00	25.20	46.00	-20.80	QP
6	300.3672	42.28	-15.61	26.67	46.00	-19.33	QP



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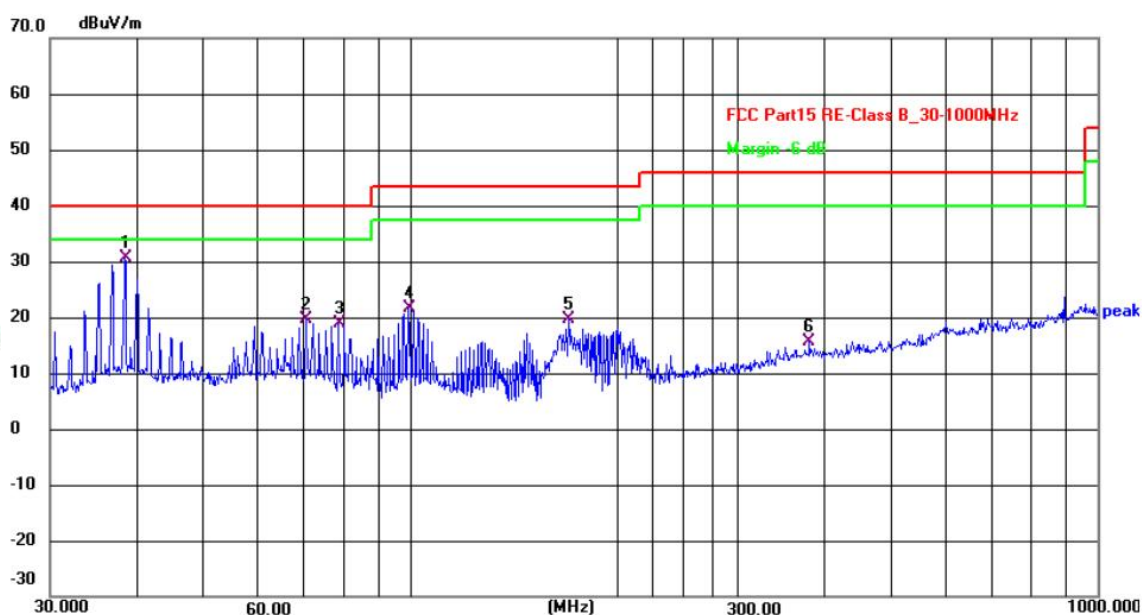
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Test Model	MANA-CLUE-V	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Jerry Chu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4809	48.33	-17.62	30.71	40.00	-9.29	QP
2	70.5835	39.10	-19.49	19.61	40.00	-20.39	QP
3	78.6887	38.80	-19.83	18.97	40.00	-21.03	QP
4	99.5281	39.94	-18.21	21.73	43.50	-21.77	QP
5	170.1947	39.24	-19.52	19.72	43.50	-23.78	QP
6	381.2485	30.27	-14.66	15.61	46.00	-30.39	QP

Note: Margin= Reading Level+Correct Factor – Limit

Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor



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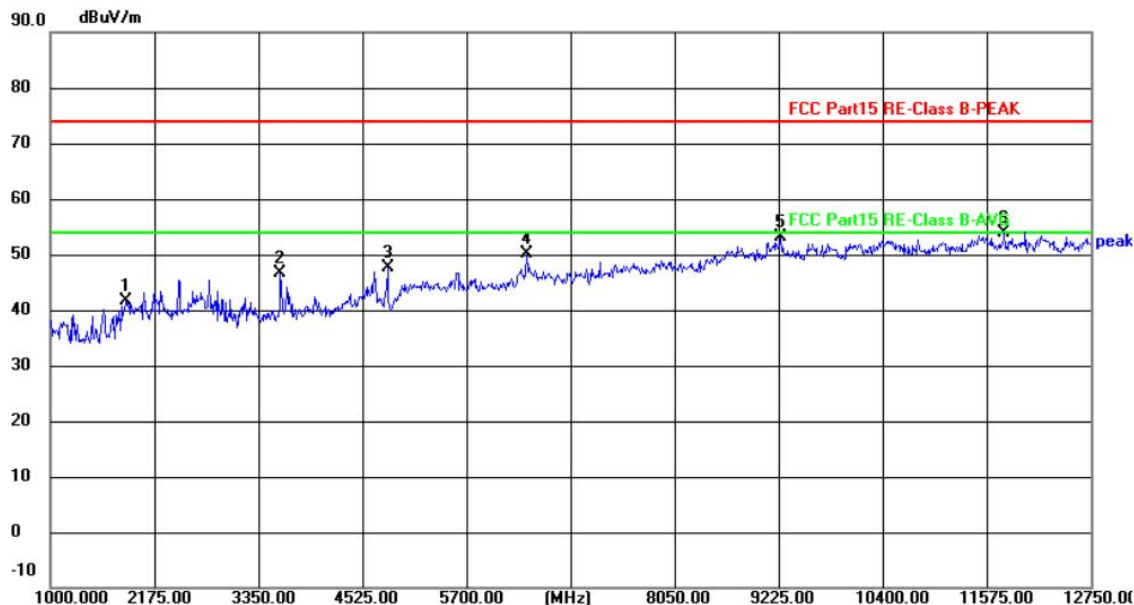
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Test Model	MANA-CLUE-V	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.9°C, 52.0% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Jerry Chu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1857.750	54.95	-13.35	41.60	74.00	-32.40	peak
2	3596.750	55.18	-8.54	46.64	74.00	-27.36	peak
3	4807.000	51.92	-4.35	47.57	74.00	-26.43	peak
4	6381.500	51.33	-1.24	50.09	74.00	-23.91	peak
5	9248.500	48.14	4.94	53.08	74.00	-20.92	peak
6	11774.750	48.05	5.89	53.94	74.00	-20.06	peak



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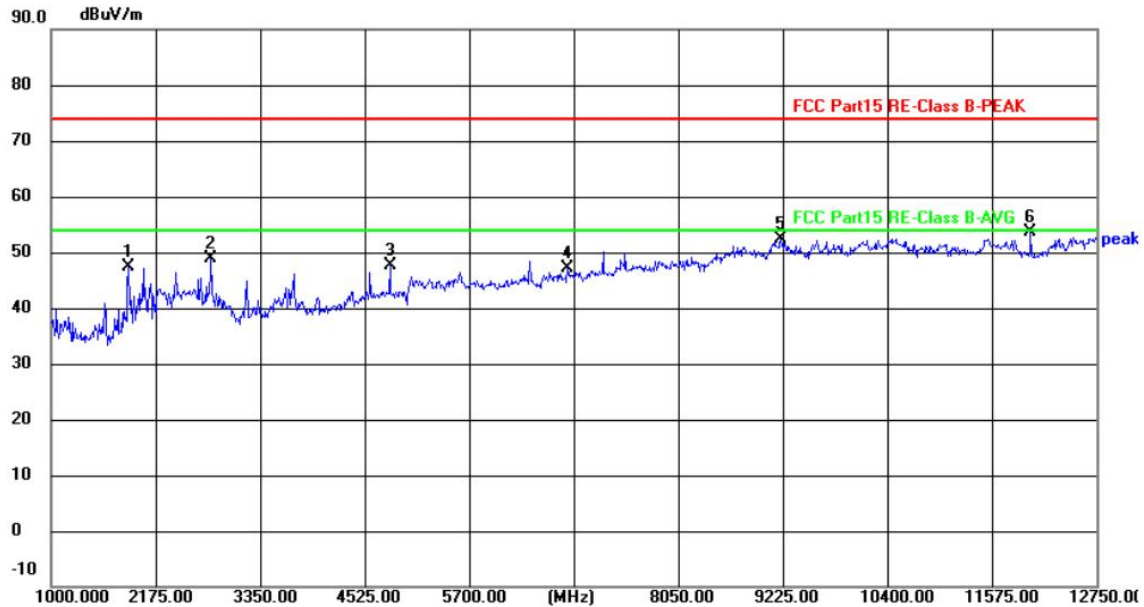
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Environmental Conditions	23.9°C, 52.0% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Jerry Chu	Test Voltage	AC 120V/60Hz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1869.500	61.21	-13.79	47.42	74.00	-26.58	peak
2	2797.750	59.10	-10.30	48.80	74.00	-25.20	peak
3	4807.000	52.63	-5.07	47.56	74.00	-26.44	peak
4	6804.500	47.77	-0.69	47.08	74.00	-26.92	peak
5	9201.500	50.17	2.22	52.39	74.00	-21.61	peak
6	12009.750	47.02	6.67	53.69	74.00	-20.31	peak

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor
Emission Level = Reading level + Factor
Margin = Emission Level - Limit



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4. PHOTOGRAPH



Photo of Power Line Conducted Measurement



Photo of Radiated Measurement



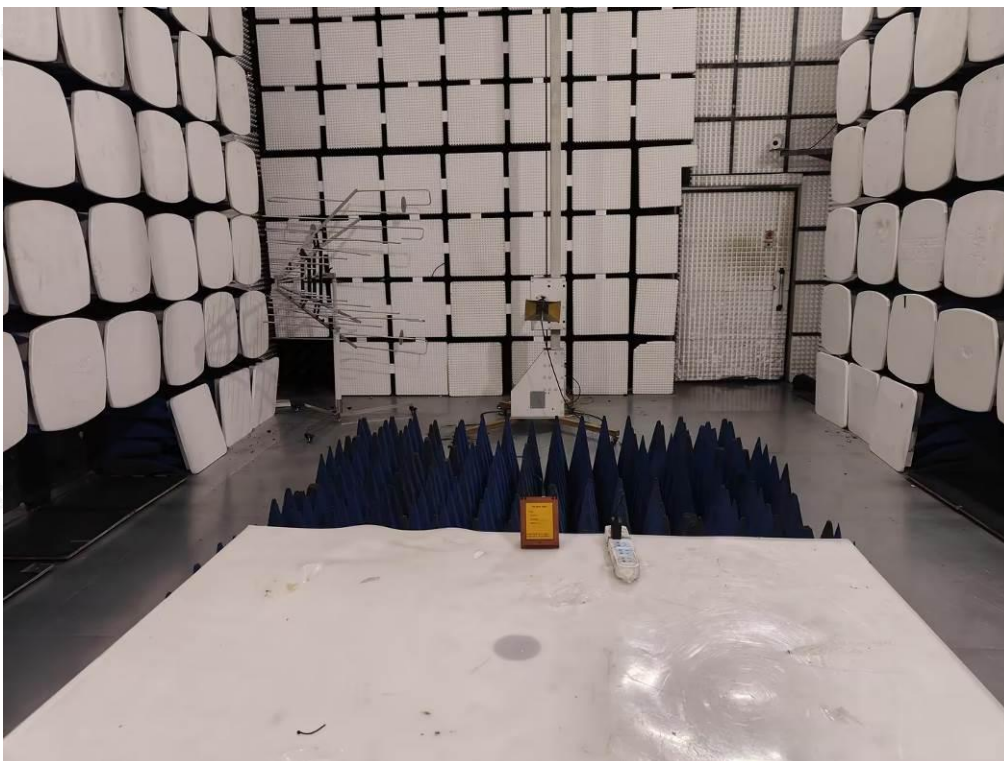


Photo of Radiated Measurement (Above 1GHz)



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5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1



Fig. 2



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Fig. 3



Fig. 4



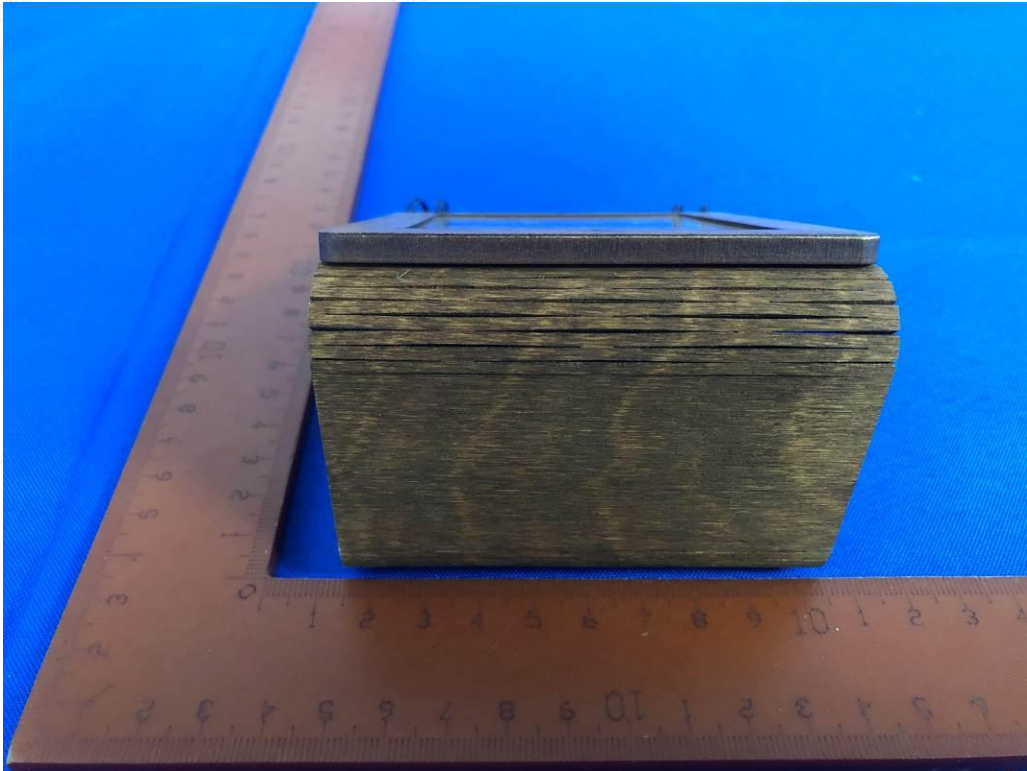


Fig. 5



Fig. 6





Fig. 7

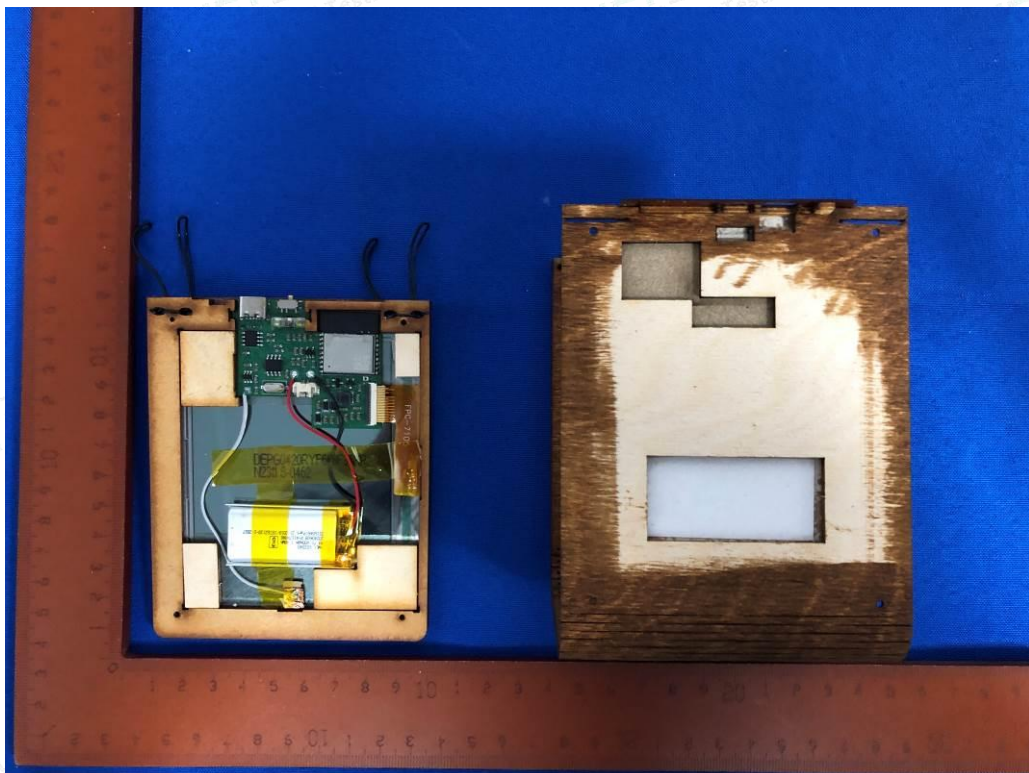


Fig. 8



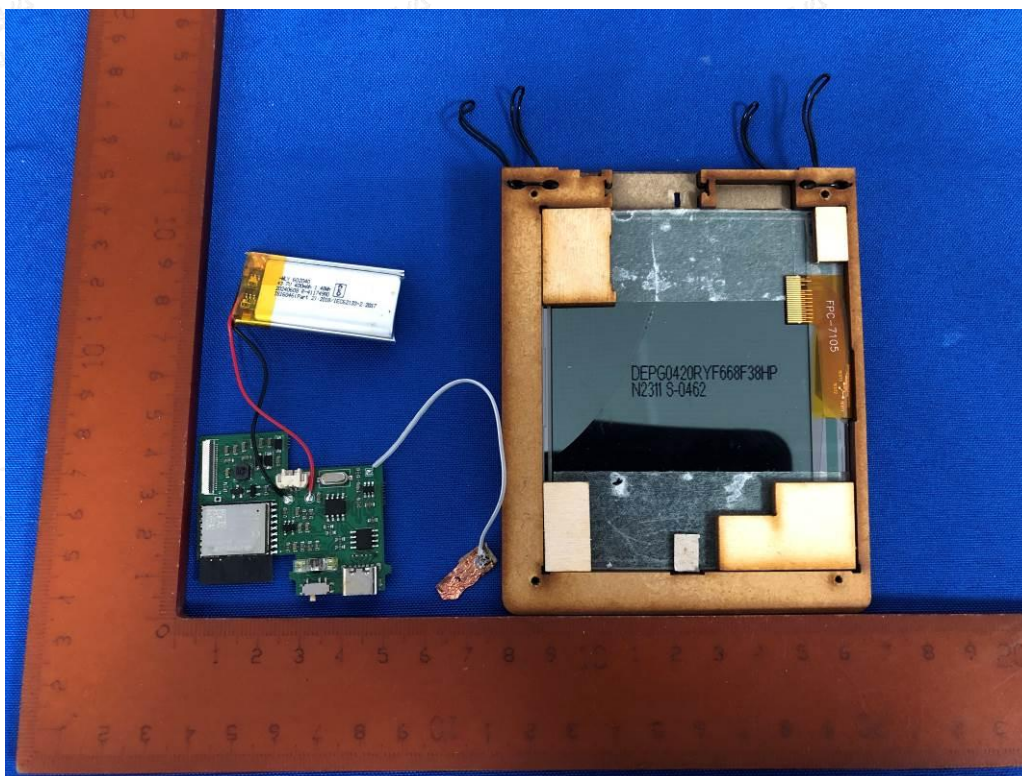


Fig. 9

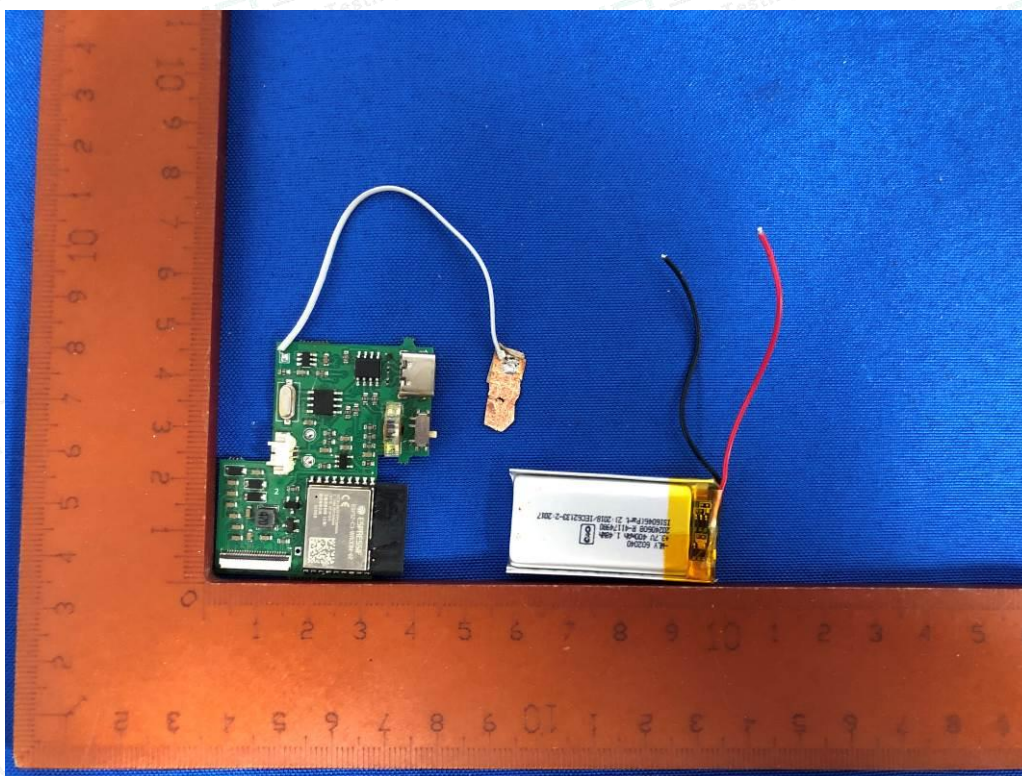


Fig. 10



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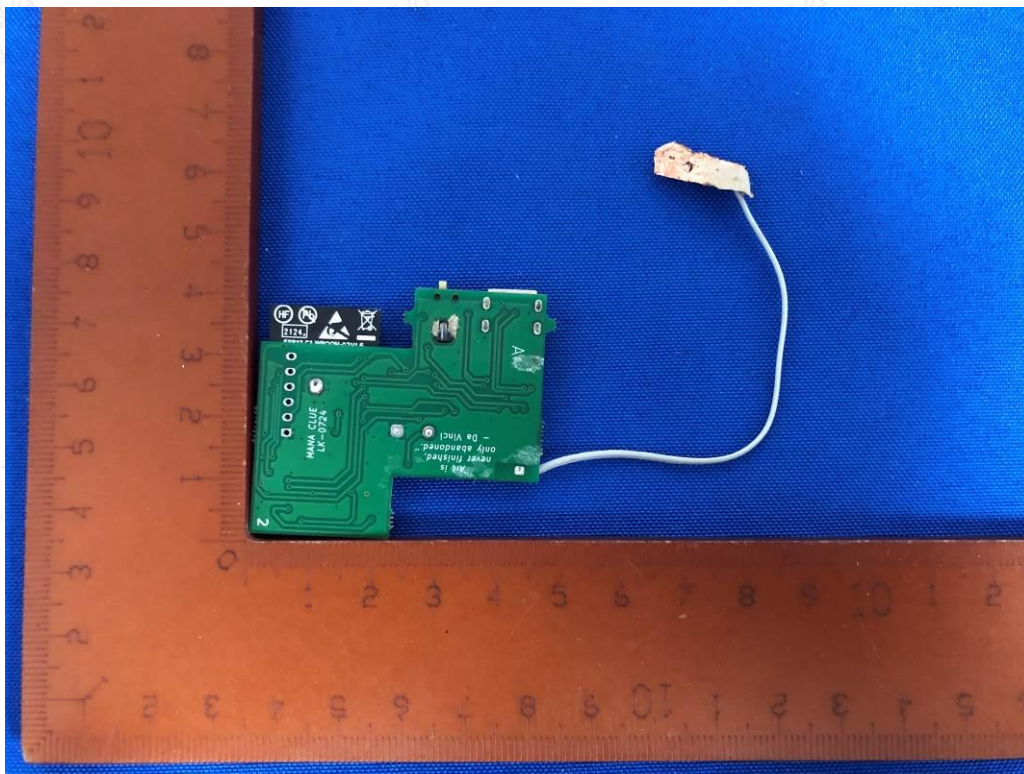


Fig. 11

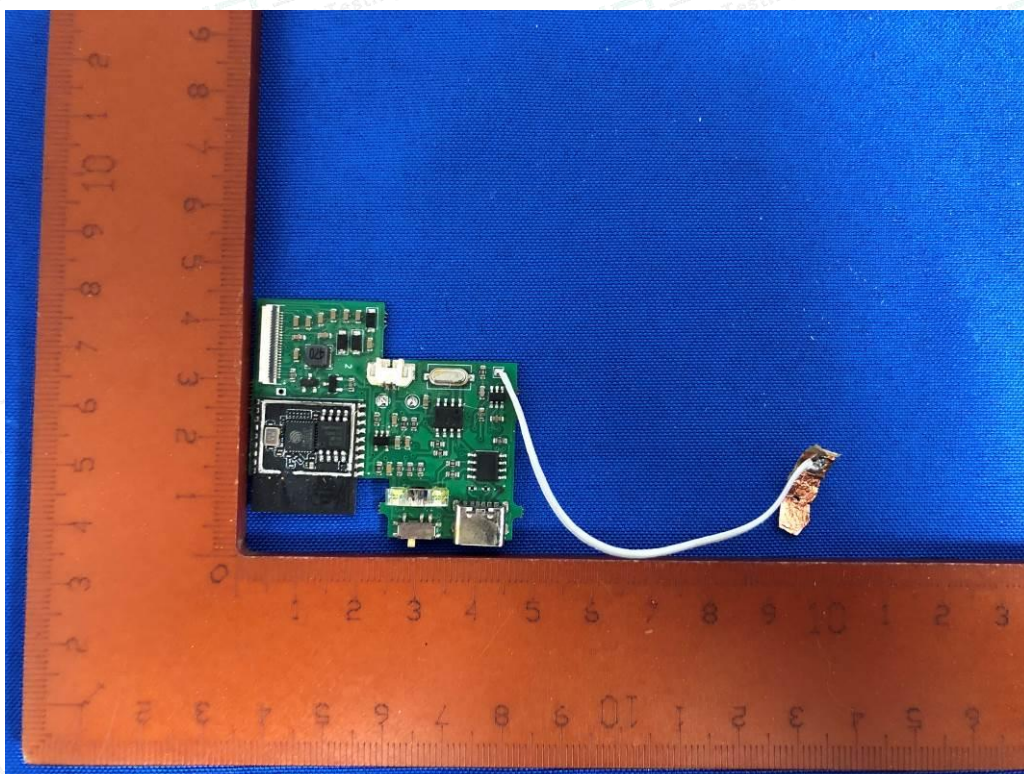


Fig. 12





Fig. 13

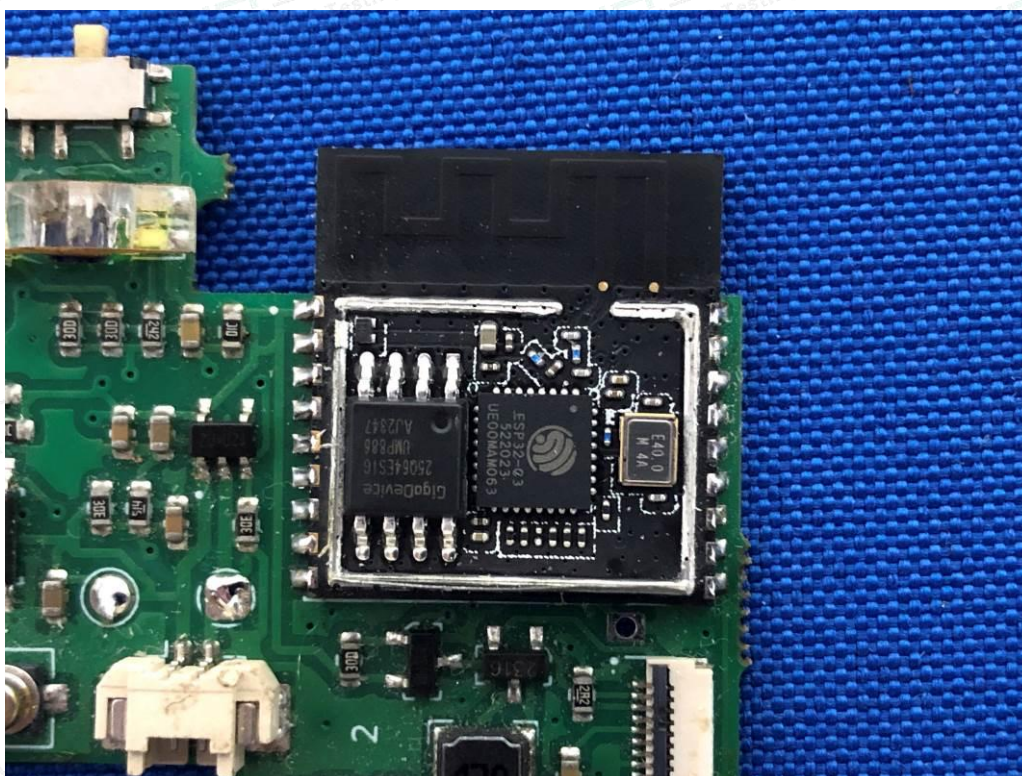


Fig. 14



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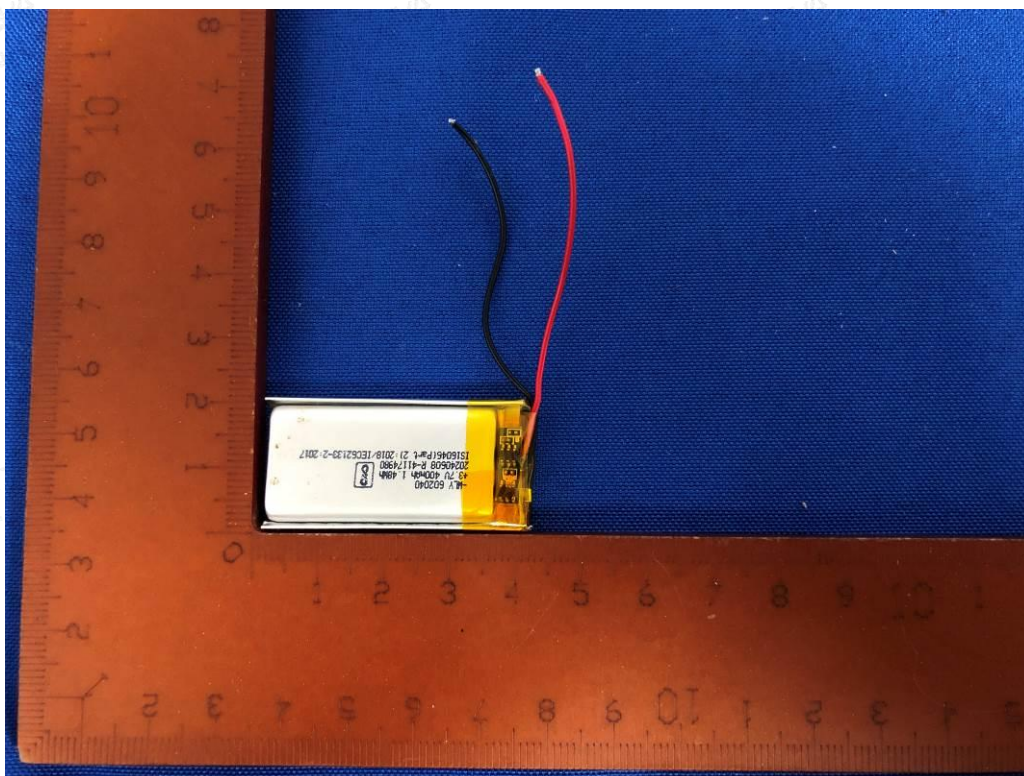


Fig. 15

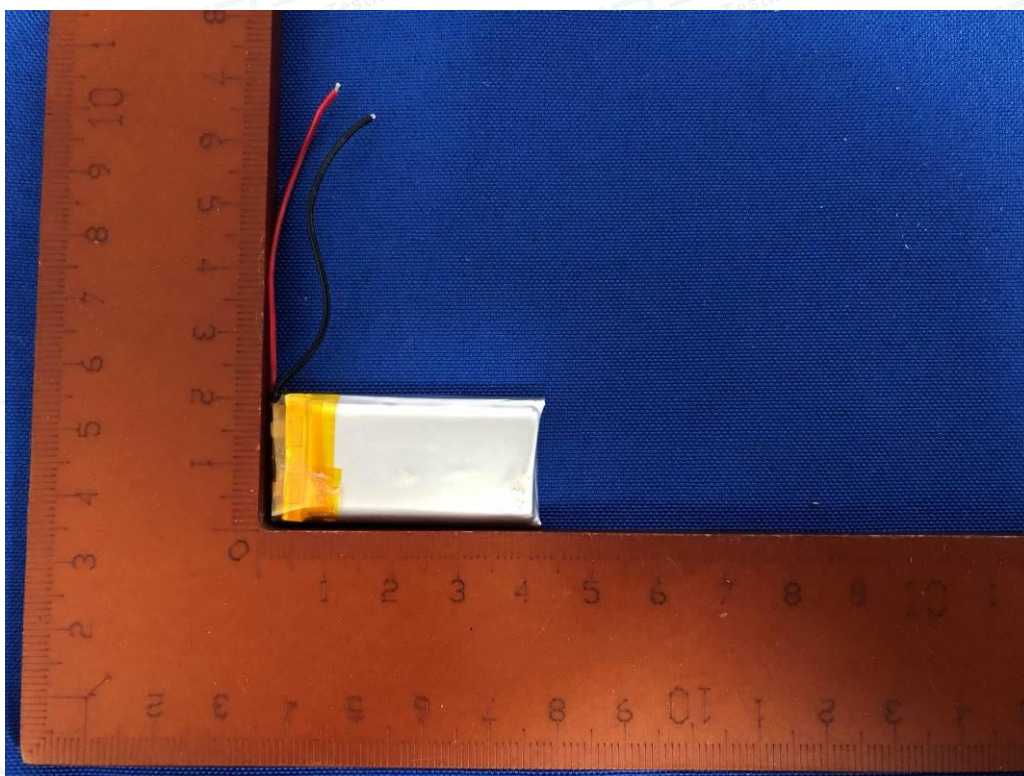


Fig. 16



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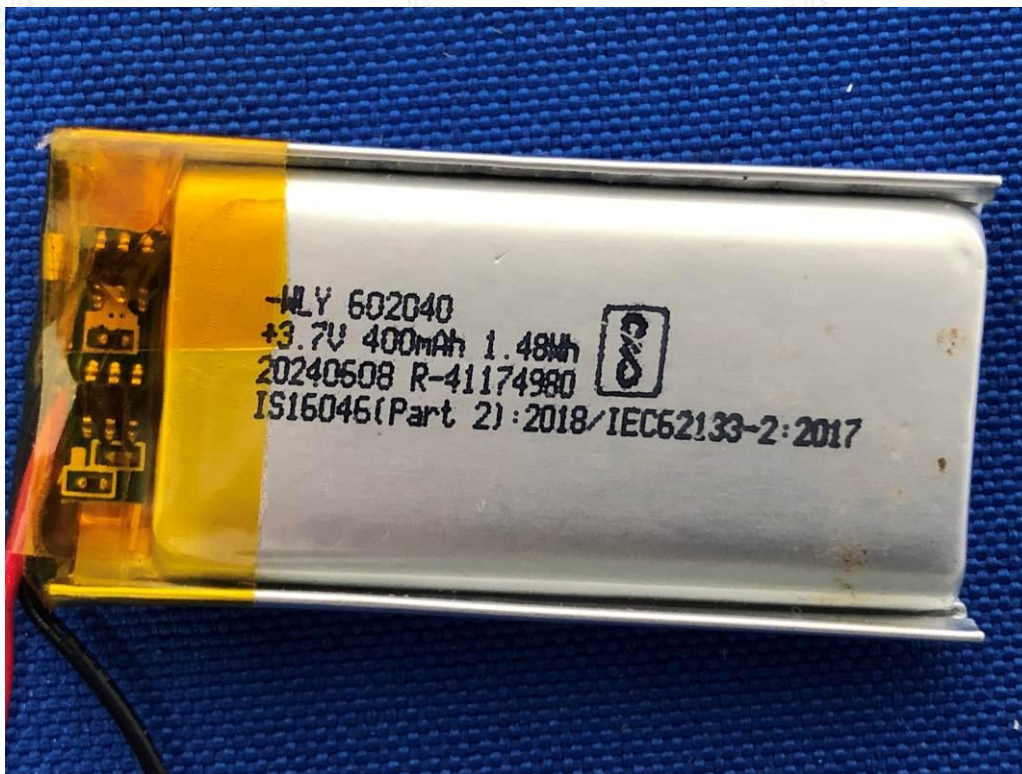


Fig. 17

-----THE END OF TEST REPORT-----



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