FCC Test Report

Test Report
On Behalf of
Qidots Security Technology Co. Ltd
For
Cabinet Lock
Model No.: F056, F019, F116, F034, F125, F127, F129, F131, F132, F133

FCC ID: 2A7PK-F056

Prepared For:	**Qidots Security Technology Co. Ltd** **3rd Floor, buildig2, No.39 Shunxiang Road, DaLiang, Shunde District, Foshan, China**
Prepared By :	**Shenzhen HUAK Testing Technology Co., Ltd.** **1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**
Date of Test:	**Aug. 01, 2023 ~Aug. 15, 2023**
Date of Report:	**Aug. 15, 2023**
Report Number:	**HK2308013380-E**

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Test Result Certification

Applicant's Name..... : Qidots Security Technology Co. Ltd

Address ..... : 3rd Floor, buildig2, No.39 Shunxiang Road, DaLiang, Shunde District, Foshan, China

Manufacture's Name..... : Qidots Security Technology Co. Ltd

Address ..... : 3rd Floor, buildig2, No.39 Shunxiang Road, DaLiang, Shunde District, Foshan, China

Product Description

Trade Mark: N/A

Product Name..... : Cabinet Lock

Model and/or Type Reference: F056, F019, F116, F034, F125, F127, F129, F131, F132, F133

Standards ..... : FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013

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Date of Test.....:

Date (s) of performance of tests .....: **Aug. 01, 2023 ~ Aug. 15, 2023**

Date of Issue.....: **Aug. 15, 2023**

Test Result.....: **Pass**

Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager : Eden Hu

(Eden Hu)

Authorized Signatory : Jason Zhou

(Jason Zhou)

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Table of Contents **Page**

1 . Test Summary	5
1.1 Test Procedures and Results	5
1.2 Information of the Test Laboratory	5
1.3 Measurement Uncertainty	5
2. General Information	6
2.1 General Description of EUT	6
2.2 Carrier Frequency of Channels	7
2.3 Operation of EUT during testing	7
2.4 Description of Test Setup	7
2.5 Description of Support Units	8
2.6 Measurement Instruments List	9
3. Conducted Emission Test	10
3.1 Block Diagram of Test Setup	10
3.2 Conducted Power Line Emission Limit	10
3.3 Test Procedure	10
3.4. Test Result	11
4. Radiated Emissions	13
4.1 Block Diagram of Test Setup	13
4.2 Rules and specifications	14
4.3 Test Procedure	15
4.4 Test Result	15
5. Antenna Requirement	18
6. Photographs of Test	19
7. Photos of the EUT	21

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Aug. 15, 2023	Jason Zhou

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1. Test Summary

1.1 Test Procedures and Results

Description of Test	Section Number	Result
Conducted Emissions Test	15.207	Compliant
Radiated Emission Test	15.209	Compliant
Antenna Requirement	15.203	Compliant

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.

1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.
Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization

A2LA Accreditation Code is 4781.01.
FCC Designation Number is CN1229.
Canada IC CAB identifier is CN0045.
CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

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2. General Information

2.1 General Description of EUT

Equipment:	Cabinet Lock
Model Name:	F056
Serial No.:	F019, F116, F034, F125, F127, F129, F131, F132, F133
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: F056.
Trade Mark:	N/A
FCC ID:	**2A7PK-F056**
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation frequency:	125KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	DC Voltage
Power Rating:	DC5V from Type-C

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2.2 Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
1	125KHz

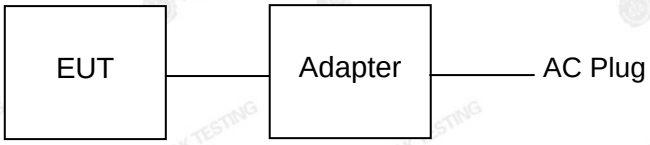
2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

2.4 Description of Test Setup

Operation of EUT during Conducted and Radiation Testing:



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2.5 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Cabinet Lock	N/A	F056	N/A	EUT
2	USB Cable	N/A	N/A	1.0m	Peripheral
3	Adapter	HUAWEI	HW-100225C00	Input: AC100-240V, 50/60Hz, 0.75A Output: DC5V/2A, 9V/2A, 10V/2.25A MAX	Peripheral

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. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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2.6 Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	1 Year

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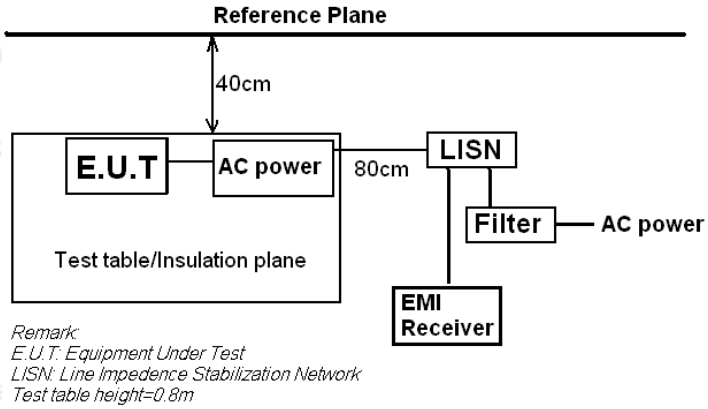
3. Conducted Emission Test

3.1 Block Diagram of Test Setup



3.2 Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207 Line Conducted Emission Limit is same as above table.

3.3 Test Procedure

1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2, Support equipment, if needed, was placed as per ANSI C63.10.
3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5, All support equipments received AC power from a second LISN, if any.
6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes

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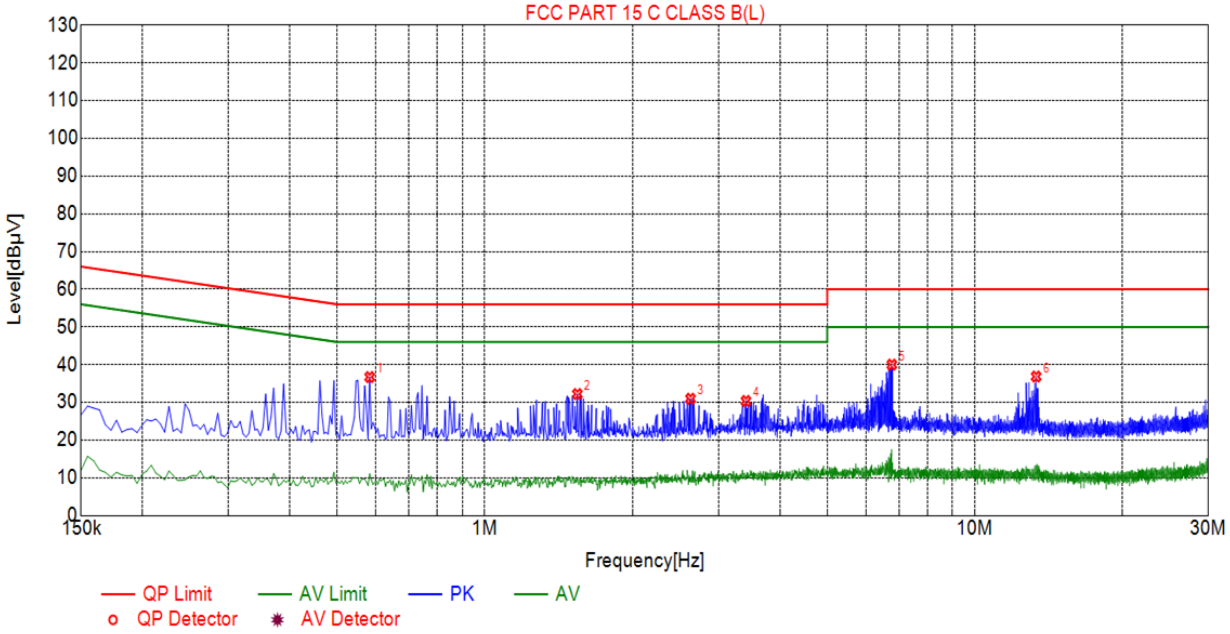
3.4. Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5820	36.71	20.05	56.00	19.29	16.66	PK	L
2	1.5450	32.22	20.11	56.00	23.78	12.11	PK	L
3	2.6295	30.97	20.21	56.00	25.03	10.76	PK	L
4	3.4125	30.38	20.24	56.00	25.62	10.14	PK	L
5	6.7740	40.01	20.21	60.00	19.99	19.80	PK	L
6	13.3485	36.85	19.96	60.00	23.15	16.89	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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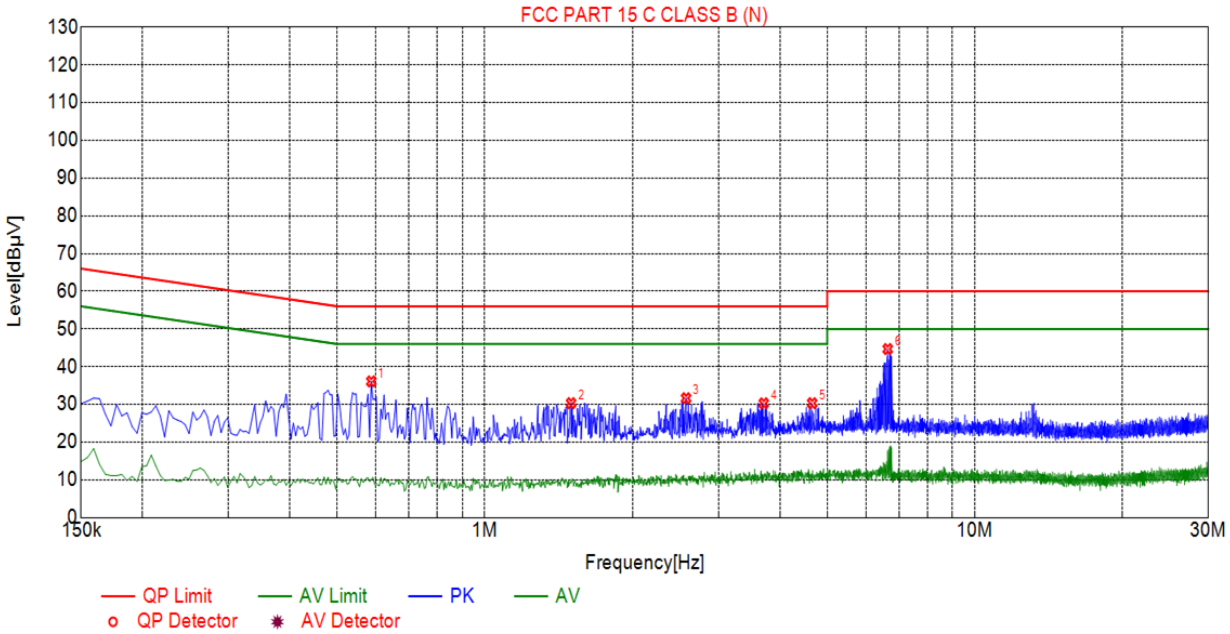
Test Specification: Neutral



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5865	36.10	20.05	56.00	19.90	16.05	PK	N
2	1.5000	30.33	20.10	56.00	25.67	10.23	PK	N
3	2.5755	31.64	20.20	56.00	24.36	11.44	PK	N
4	3.7095	30.29	20.25	56.00	25.71	10.04	PK	N
5	4.6590	30.32	20.26	56.00	25.68	10.06	PK	N
6	6.6435	44.69	20.21	60.00	15.31	24.48	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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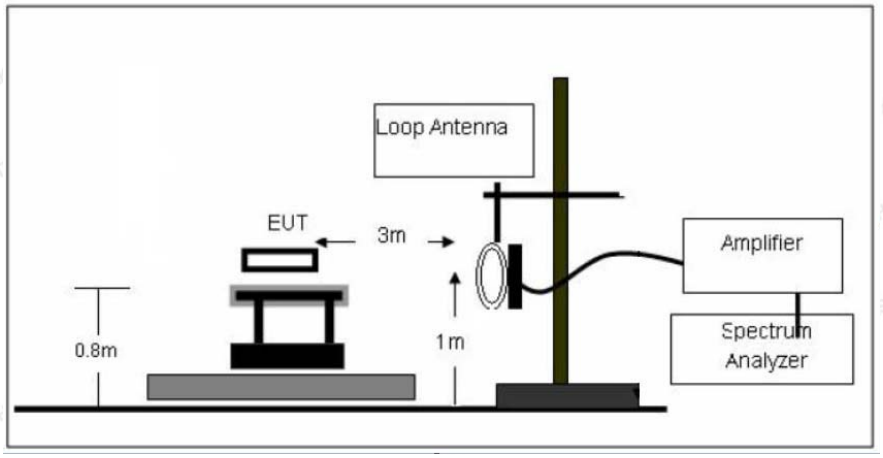
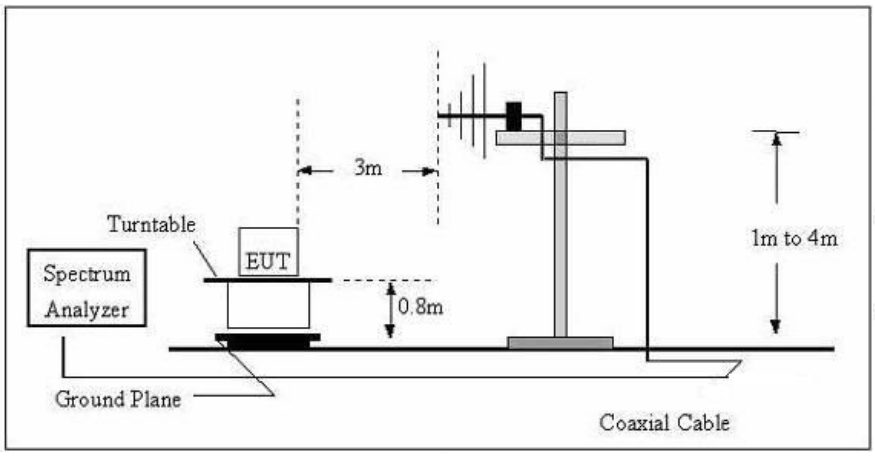
4. Radiated Emissions

4.1 Block Diagram of Test Setup





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4.2 Rules and specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

Transmitter Spurious Emissions 9KHz-30MHz			
	9-150KHz	150-490KHz	490KHz-30MHz
Resolution Bandwidth	200Hz	9KHz	9KHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

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4.3 Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), per antenna factor scaling. Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

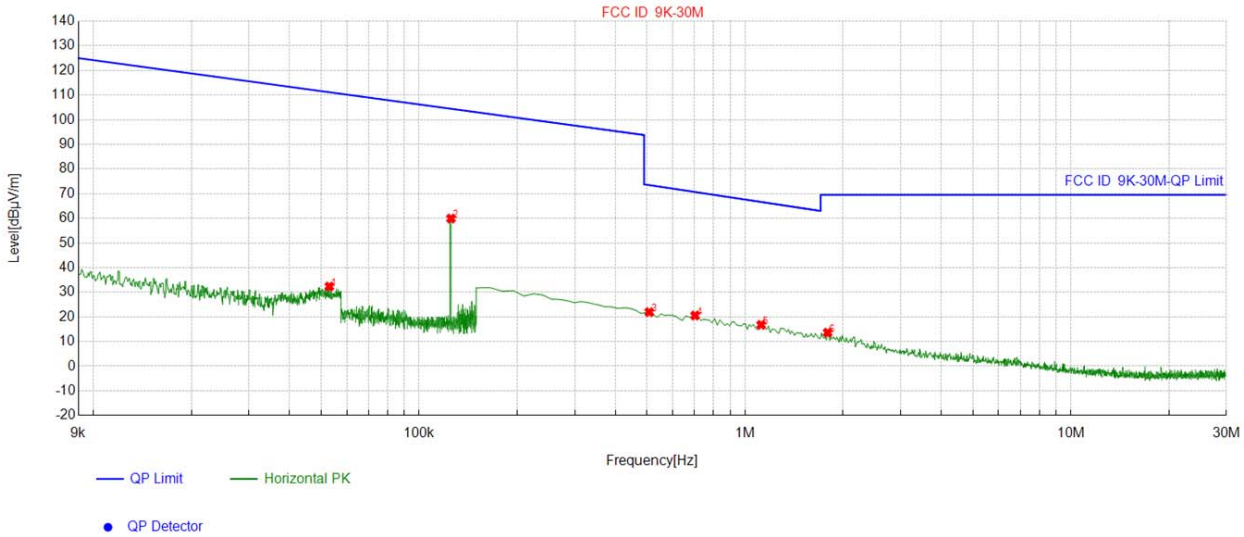
For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

Note: this EUT was tested for all models and the worst case model data was reported.

For 9KHz-30MHz



Suspected List						
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.053014	-10.44	42.76	32.32	111.16	78.84
2	0.125172	-10.60	70.51	59.91	104.45	44.54
3	0.508379	-10.96	32.89	21.93	73.48	51.55
4	0.702501	-10.95	31.50	20.55	70.68	50.13
5	1.12061	-10.52	27.29	16.77	66.64	49.87
6	1.792571	-10.49	24.11	13.62	69.50	55.88

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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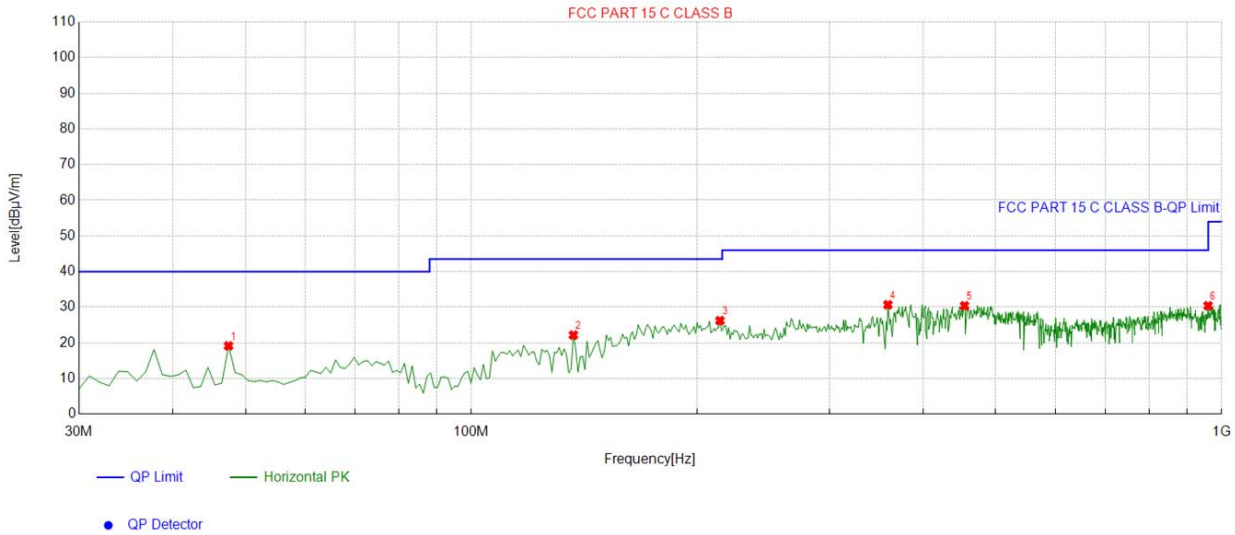
For 30MHz-1GHz

Antenna polarity: H



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.477477	-14.95	34.11	19.16	40.00	20.84	100	170	Horizontal
2	136.80680	-17.69	39.88	22.19	43.50	21.31	100	118	Horizontal
3	214.48448	-14.46	40.70	26.24	43.50	17.26	100	20	Horizontal
4	359.15915	-10.99	41.68	30.69	46.00	15.31	100	308	Horizontal
5	454.31431	-8.32	38.71	30.39	46.00	15.61	100	129	Horizontal
6	959.21921	-0.13	30.53	30.40	46.00	15.60	100	192	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Antenna polarity: V

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	62.042042	-14.19	40.20	26.01	40.00	13.99	100	95	Vertical
2	79.51952	-17.40	49.46	32.06	40.00	7.94	100	18	Vertical
3	123.21321	-15.99	42.06	26.07	43.50	17.43	100	98	Vertical
4	190.21021	-17.06	50.54	33.48	43.50	10.02	100	18	Vertical
5	333.91391	-11.53	37.36	25.83	46.00	20.17	100	43	Vertical
6	499.94995	-7.07	38.23	31.16	46.00	14.84	100	40	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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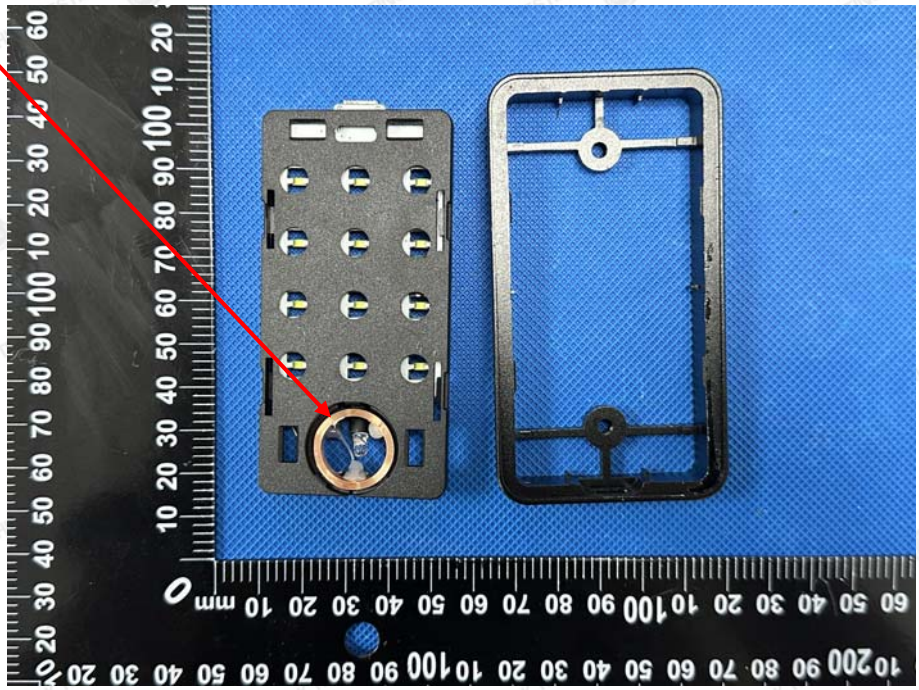
5. Antenna Requirement

Standard Applicable
For intentional device, according to FCC 47 CFR Section 15.203, 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.

Refer to statement below for compliance.
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

Antenna



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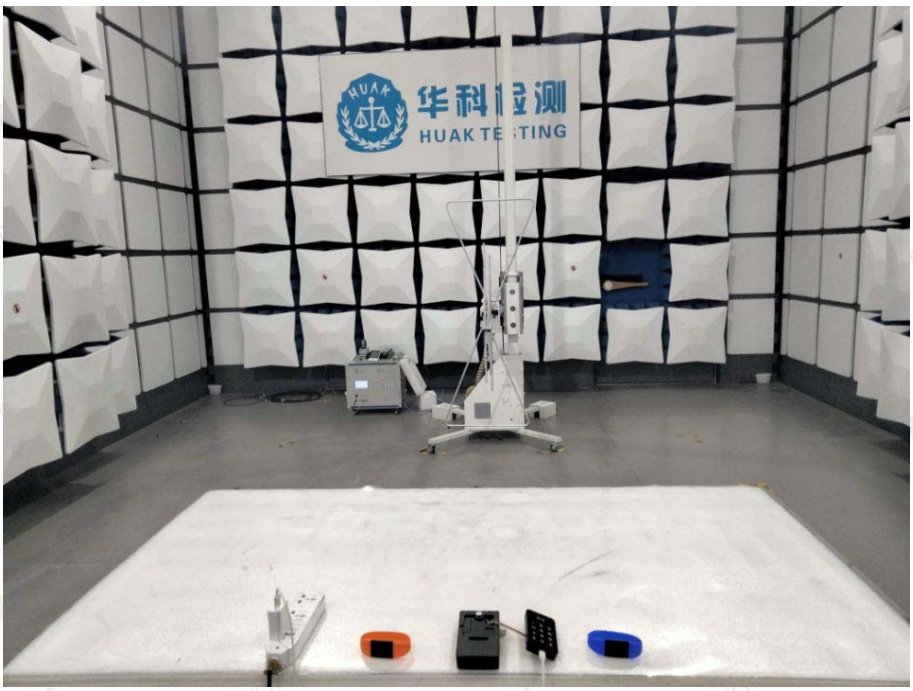
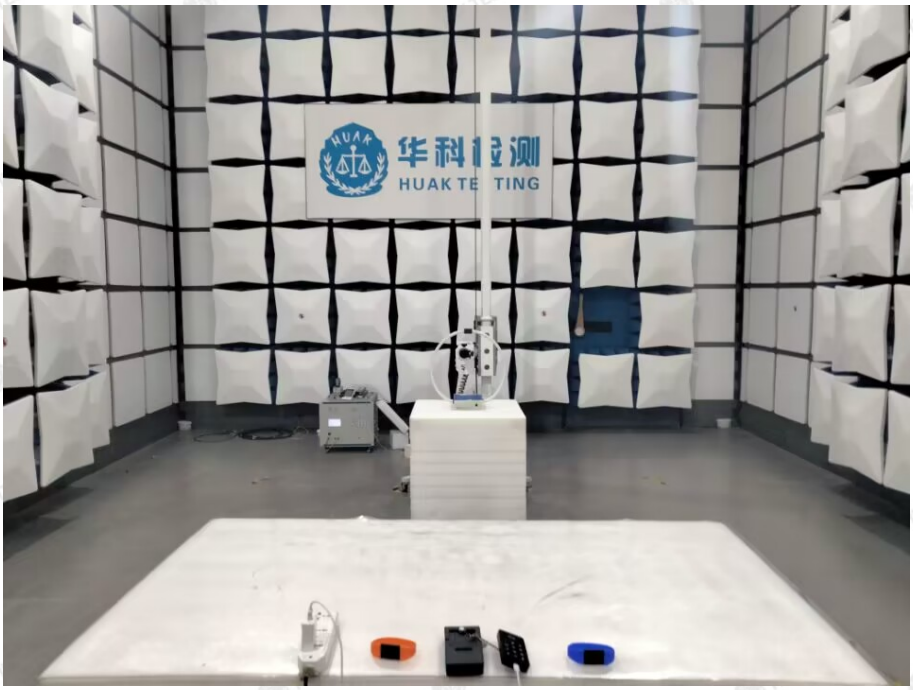
6. Photographs of Test

Radiated Emissions





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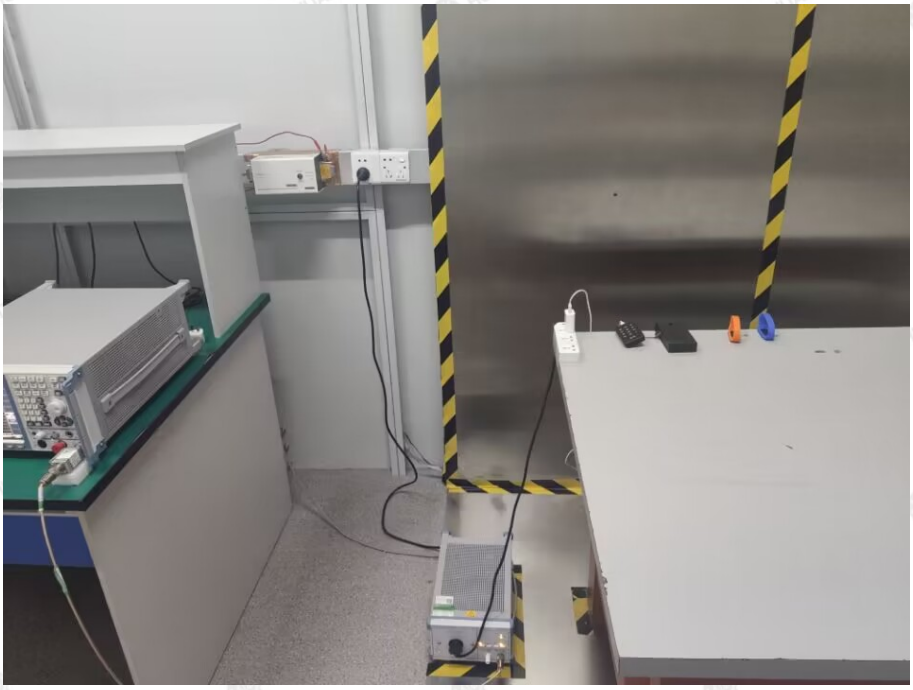
Conducted Emission



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7. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

---------End of test report---------

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