

FCC TEST REPORT

Prepared for :

Shenzhen Yidian International Digital Co., LTD

Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China

Ρ

Product Name:	Detector Pen		
Trade Mark:	N/A		
roduct Model (S):	S700, S800, X	200, S300, S400, S500, 213, X14, X15, X17, X1 2, X23, X24, X25, X26, 2	8, X19,
FCC ID:	2BCLC-X16		
Date of Test:	May 23, 2024	– May 30, 2024	
Date of Report:	May 30, 2024		
Report Number:	HK240523266	01-1ER	

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 TEL: +86-755-2302 9901 FAX: +86-755-2302 9901 E-mail: service@cer-mark.com http://www.cer-mark.com

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Report No.: HK2405232661-1ER

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TEST REPORT VERIFICATION

Applicant	:	Shenzhen Yidian International Digital Co., LTD
Address	:	Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China
Manufacturer	:	Shenzhen Yidian International Digital Co., LTD
Address	:	Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China
Product Name	:	Detector Pen
(A) Product Model	÷	X16
(B) Series Model		S100, S200, S300, S400, S500, S600, S700, S800, X13, X14, X15, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28,X29, X30
(C) Power Supply	:	DC 5V from Type-C or DC 3.7V from Battery
Standarda Multi Testing		FCC Part 15 Subpart B

Standards ANSI C63.4:2019

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Result Pass

Date of Test:

May 23, 2024 - May 30, 2024

Prepared by:

Project Engineer

Levin

Reviewed by:

Approved by:

Pan

Project Supervisor

son Muu

Technical Director

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Т 691

Revision	De	scription	Issued Data	Remark
Revision 1.0	Initial Test	Report Release	2024/05/30	Jason Zhou
TING	TING	TING	TING	TING
NIAK TED	NK TES	NAK TES	WAX TES	NAK TES NAK

** Modified History **

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1. TEST SUMMARY

Test procedures according to the technical standards:

	EMC Emission					
5	Standard	Standard Test Item Limit Judgm		Judgment	Remark	
	FCC Part 15 Subpart B	Conducted Emission	Class B	PASS	ALC: NO	
50	ANSI C63.4:2019	Radiated Emission	Class B	PASS	STING	

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.

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FICATION

1.1 TEST FACILITY

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.

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement :

Measurement Frequency Range	Uncertainty	NOTE	
150 KHz ~ 30MHz	±2.71dB	O HUM	

B. Radiated Measurement :

Mea	surement Frequency Range	Uncertainty	NOTE
	30MHz ~ 1000MHz	±3.90dB	UAK TESTING
TESTING	1GHz ~6GHz	±4.28dB	Own

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Bin and Bin an	Dia. Dia	Dia	
Product Name	Detector Pen		HUAKTES
Product Model	X16	W	
Series Model	S100, S200, S300, S400, S X14, X15, X17, X18, X19, X X26, X27, X28,X29, X30		
Model Difference	All model's the function, soft same, only with product model: X16.		
Product Description		N/A N/A eatures, or specification the EUT is considered a re details of EUT technic	
Power Source	DC Voltage	TESTING	
Power Rating	DC 5V from Type-C or DC 3	7V from Battery	Th

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	Charging	
Mode 2	Working	

For Conducted Test					
Final Test Mode Description					
Mode 1	Charging				
Mode 2	N/A				

For Radiated Test			
Description			
Charging			
Working			

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2.3 DESCRIPTION OF TEST SETUP

Mode 1:



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2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Note
E-1	Detector Pen	N/A	X16	N/A	EUT
E-2	USB Cable	N/A	N/A	Length: 20cm	Accessory
E-3	Adapter	N/A	MDY-10-EH	Input: AC100-240V, 50/60Hz, 0.7A Output: DC5V/3A, 9V/3A, 12V/2.25A, 20V/1.35A	Peripheral
HUAKTEST	ous man restriction	C HUAN T	STINS MAKTESTIN	HUAK TESTING	HUAK TESTING
. G			6		
A TESTING	HUAT TESTING	HUARTEST	HUAK TEST	HUAT TESTING	HUARTESTIN

Item	Shielded Type	Ferrite Core	Length	Note
	MAKTESTIN	O HUM	HUN DE HUN	"NAK TESTIN"
	0.	NG	0	0.
		JAKTEST	- WUAK TEST	
TEST	NG INK TESTING	TE	TING AKTESTING O	TESTING INTESTING
love	0	O HUM	0	Nora Olin

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in ^[]Length ^[] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 20, 2024	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6.	Preamplifier	EMCI	EMC05184 5S	HKE-006	Feb. 20, 2024	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	Chine in	/
15. EMI Test Software		Tonscend	JS32-RE 5.0.0	HKE-082	1	1

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MH	lz) Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

	100 ·	
Receiver Parameters	Setting	HUAK
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	TESTING
IF Bandwidth	9 kHz	HUPD

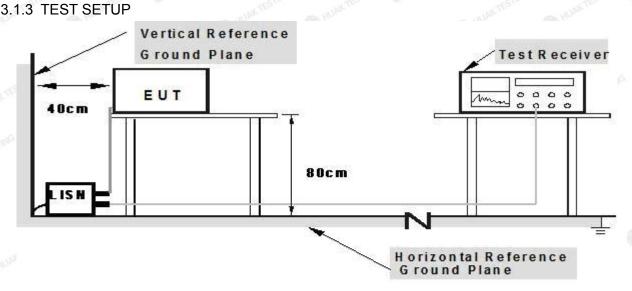
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3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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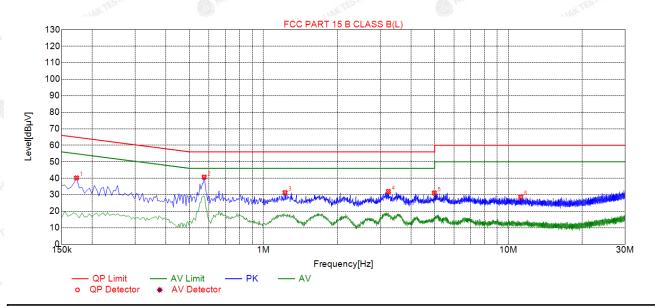
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3.1.5 TEST RESULTS Note:

All the test modes completed for test. only the worst result of was reported.

EUT :	Detector Pen	Model Name. :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	L
Test Voltage :	DC 5V from Type-C		STING



Suspected List

4000	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
2	1	0.1725	40.21	20.07	64.91	24.70	20.14	PK	L
	2	0.5730	40.69	20.13	56.00	15.31	20.56	PK	L
5	3	1.2255	31.28	20.24	56.00	24.72	11.04	PK	L
	4	3.2370	31.99	20.60	56.00	24.01	11.39	PK	L
	5	4.9875	31.06	20.81	56.00	24.94	10.25	PK	L
	6	11.2380	28.67	21.19	60.00	31.33	7.48	PK	L
1	11.11	and XY		12.11	dian XV		11.11	and the training of the second	

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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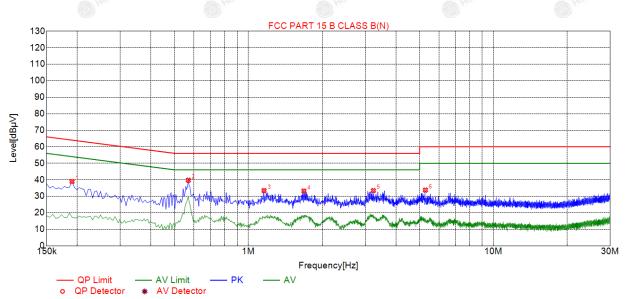
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EUT :	Detector Pen	Model Name. :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	Ν
Test Voltage :	DC 5V from Type-C	TESTING	TSTING



3	Sus	spected	List						
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
100	1	0.1905	38.93	20.17	64.10	25.17	18.76	PK	N
	2	0.5685	39.75	20.22	56.00	16.25	19.53	PK	Ν
Y	3	1.1580	33.45	20.31	56.00	22.55	13.14	PK	Ν
	4	1.6845	33.19	20.40	56.00	22.81	12.79	PK	Ν
3	5	3.2370	33.44	20.65	56.00	22.56	12.79	PK	Ν
	6	5.2800	33.74	20.88	60.00	26.26	12.86	PK	Ν

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)
FREQUENCY (MHz)	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

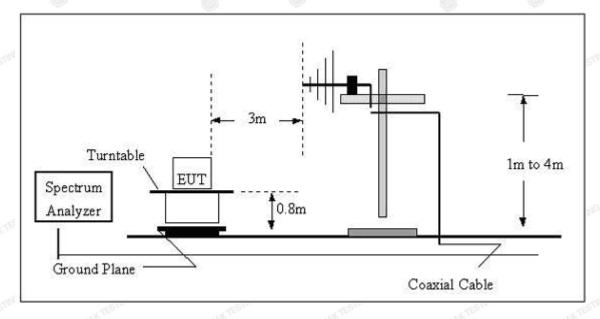
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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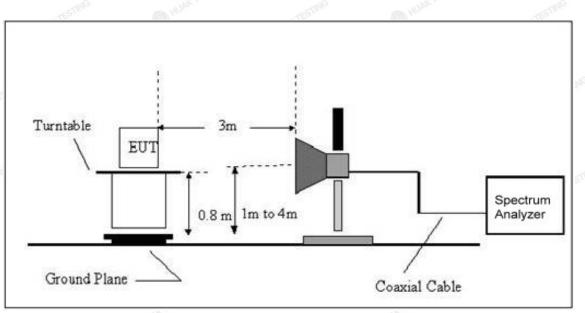


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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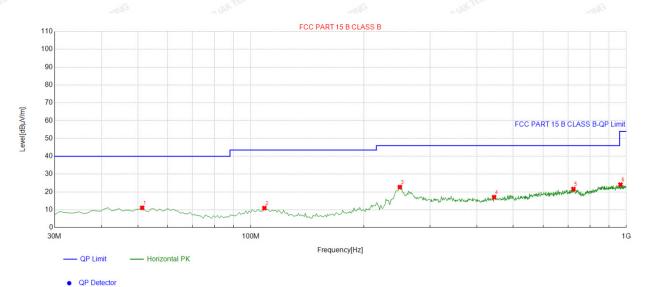
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3.2.5 TEST RESULTS Note:

All the test modes completed for test. only the worst result of was reported.

EUT :	Detector Pen	Model Name :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from Type-C		TING



Su	Suspected List									
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NC	0.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	1	51.361361	-13.25	24.33	11.08	40.00	28.92	100	59	Horizontal
2	2	108.64864	-14.02	24.94	10.92	43.50	32.58	100	70	Horizontal
3	3	249.43943	-13.41	36.14	22.73	46.00	23.27	100	161	Horizontal
4	1	444.60460	-8.64	25.70	17.06	46.00	28.94	100	189	Horizontal
5	5	723.27327	-4.13	25.77	21.64	46.00	24.36	100	202	Horizontal
< 6	6	965.04504	-0.94	25.02	24.08	54.00	29.92	100	186	Horizontal

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

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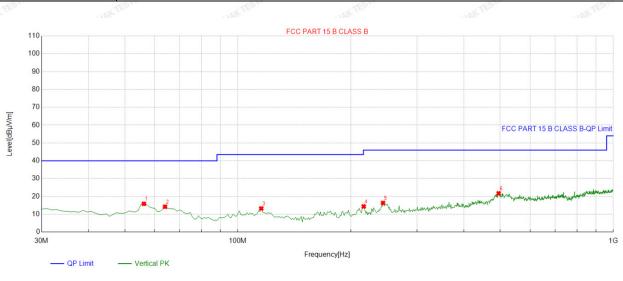
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Report No.: HK2405232661-1ER

EUT :	Detector Pen	Model Name :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from Type-C	NG	30-



QP Detector

3	Suspected List										
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
G	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	56.216216	-13.94	29.82	15.88	40.00	24.12	100	78	Vertical	
	2	63.983984	-14.38	28.61	14.23	40.00	25.77	100	78	Vertical	
9	3	115.44544	-15.60	28.85	13.25	43.50	30.25	100	127	Vertical	
	4	216.42642	-14.69	29.08	14.39	46.00	31.61	100	185	Vertical	
	5	243.61361	-13.32	29.70	16.38	46.00	29.62	100	199	Vertical	
	6	495.09509	-7.84	29.58	21.74	46.00	24.26	100	266	Vertical	

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

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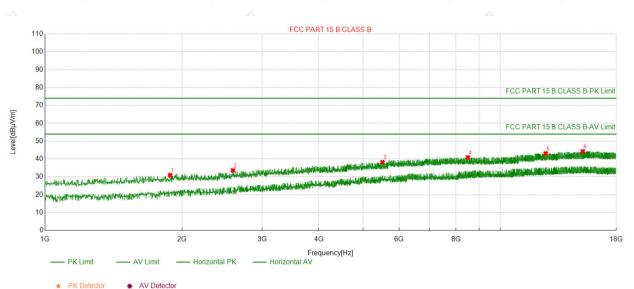


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3.2.6 TEST RESULTS(Above 1GHz)

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EUT :	Detector Pen	Model Name :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 2	Polarization :	Horizontal
Test Power :	DC3.7V from battery	O HU	O ^{HU} O ^{HU}



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5	us	pe	cte	ed	LIS	st	

	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	1884.0884	-19.41	50.39	30.98	74.00	43.02	100	56	Horizontal
2	2587.9587	-16.26	49.89	33.63	74.00	40.37	100	174	Horizontal
3	5515.6515	-9.19	47.34	38.15	74.00	35.85	100	130	Horizontal
4	8494.3494	-2.59	43.45	40.86	74.00	33.14	100	341	Horizontal
5	12595.159	2.59	40.52	43.11	74.00	30.89	100	253	Horizontal
6	15193.019	5.50	38.76	44.26	74.00	29.74	100	209	Horizontal

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

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HUAK TESTING

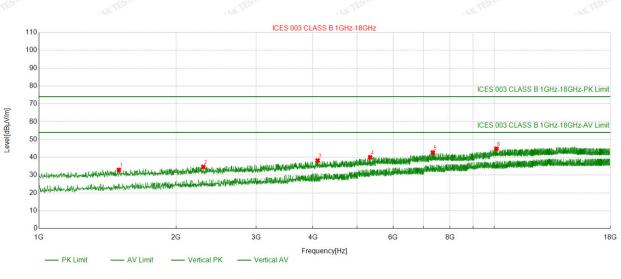
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Report No.: HK2405232661-1ER

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EUT :	Detector Pen	Model Name :	X16
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2024-05-24
Test Mode :	Mode 2	Polarization :	Vertical
Test Power :	DC3.7V from battery	MG	Store Store



PK Detector	*	AV	Detector
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5	Suspe	spected List										
G		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle			
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
	1	1498.1498	-20.45	53.39	32.94	74.00	41.06	100	208	Vertical		
0	2	2297.2297	-17.51	52.10	34.59	74.00	39.41	100	76	Vertical		
9	3	4094.3094	-12.03	50.21	38.18	74.00	35.82	100	216	Vertical		
	4	5340.5340	-9.29	49.28	39.99	74.00	34.01	100	120	Vertical		
	5	7336.5336	-4.86	47.50	42.64	74.00	31.36	100	199	Vertical		
	6	10119.711	-0.76	45.55	44.79	74.00	29.21	100	216	Vertical		

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

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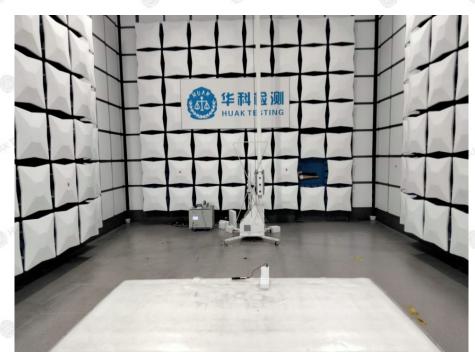


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4. EUT TEST PHOTOS

Radiated Emission





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Conducted Emission



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5. ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2



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Photo 3



Photo 4

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S 0 mm 01 02 05 04 03 03 07 08 08 00101

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Photo 5



Photo 6



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Photo 7



Photo 8



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Photo 9



Photo 10



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Photo 11

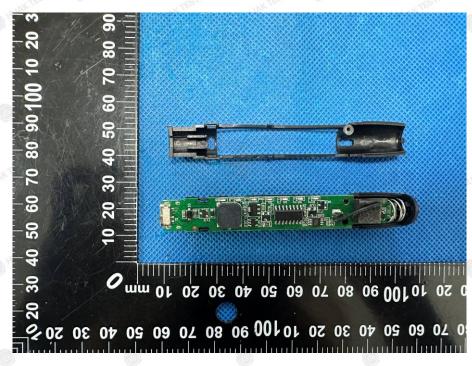
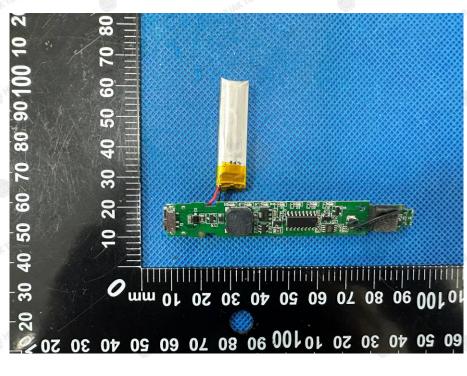


Photo 12



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Photo 13



-End of report-

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