

CE-EMC TEST REPORT

Prepared for:

Shenzhen Ruidian Technology Co., Ltd.

Room 314-B01, Building 4, Qidi Xiexin, No.333 Longfei Avenue, Huanggekeng Community, Longcheng Street, Longgang District, Shenzhen, China

Product: ACTIVE STYLUS

Trade Name: N/A

K11, H11, K08, K10, K12, WK01, WK05,

Model Name: WK09, LD100, KD503, ID606, ID607, ID609, ID706, ID715, ID716, ID712, ID710, ID719,

ID718

Date of Test: Apr. 23, 2021 - Apr. 29, 2021

Date of Report: Apr. 29, 2021

Report Number: HK2104271305-1ER

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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TEST REPORT VERIFICATION

Shenzhen Ruidian Technology Co., Ltd. Applicant

Room 314-B01, Building 4, Qidi Xiexin, No.333 Longfei Avenue,

Huanggekeng Community, Longcheng Street, Longgang District, Address

Shenzhen, China

Shenzhen Ruidian Technology Co., Ltd. Manufacturer

Room 314-B01, Building 4, Qidi Xiexin, No.333 Longfei Avenue, Address

Huanggekeng Community, Longcheng Street, Longgang District,

Apr. 23, 2021 - Apr. 29, 2021

Shenzhen, China

ACTIVE STYLUS EUT Description

K11 Model No. (A)

H11, K08, K10, K12, WK01, WK05, WK09, LD100, KD503, ID606. (B) Serial Model ID607, ID609, ID706, ID715, ID716, ID712, ID710, ID719, ID718

(C) **Power Supply** DC5V From Type-C or DC3.7V From Battery

EN 55032:2015 + A11:2020 Standards. EN 55035:2017 + A11:2020

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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Test Result.....

Date of Test:

Kevin Pan

Prepared by:

Project Engineer

Reviewed by: Project upe visor

Approved by: Technical Director





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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2021/04/29	Jason Zhou
Revision 2.0	All test data were obtained from: HK2104271303-1ER	2021/04/29	Jason Zhou
(0)	0	(ii)	(0)



1. TEST SUMMARY

Test procedures according to the technical standards:

	EMC Emission			
Standard	Test Item	Limit	Judgment	Remark
EN 55032	Conducted Emission	Class B	N/A	
EN 33032	Radiated Emission	Class B	PASS	ESTING
EN IEC 61000-3-2	Harmonic Current Emission	Class A	N/A	
EN 61000-3-3	Voltage Fluctuations & Flicker	MAN TEST	N/A	TING
	EMC Immunity			
Section EN 55035	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2	Electrostatic Discharge	В	PASS	AK TESTING
EN 61000-4-3	RF electromagnetic field	A O	PASS	D. Marie
EN 61000-4-4	Fast transients	B	N/A	STING
EN 61000-4-5	Surges	В	N/A	
EN 61000-4-6	Injected Current	A	N/A	and G
EN 61000-4-8	Power Frequency Magnetic Field	Α	N/A	WAKTESTIL
EN 61000-4-11	Volt. Interruptions Volt. Dips	B / C / C NOTE (3)	N/A	

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) The power consumption of EUT is less than 75W and no Limits apply.
- (3) Voltage dip: 100% reduction Performance Criteria B Voltage dip: 30% reduction – Performance Criteria C Voltage Interruption: 100% Interruption – Performance Criteria C
- (4) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

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

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

	Measurement Frequency Range	Uncertainty	NOTE
34.7	150 KHz ~ 30MHz	±2.71dB	NUN A

B. Radiated Measurement:

Measurement Frequency Range	Uncertainty	NOTE
30MHz ~ 1000MHz	±3.90dB	(a) HO
1GHz ~6GHz	±4.28dB	NY TESTIN





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	ACTIVE STYLUS
Model Name	K11
Serial Model	H11, K08, K10, K12, WK01, WK05, WK09, LD100, KD503, ID606, ID607, ID609, ID706, ID715, ID716, ID712, ID710, ID719, ID718
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: K11.
Product Description	The EUT is a ACTIVE STYLUS Operating frequency: N/A Connecting I/O port: N/A Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical
Power Source	specification, please refer to the User's Manual. DC Voltage
Power Rating	DC5V From Type-C or DC3.7V From Battery



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	N/A	HUAK	

For Radiated Test		
Final Test Mode	Description	
Mode 1	Charging	
Mode 2	Working	

	For EMS Test	
Final Test Mode	Description	
Mode 1	Charging	
Mode 2	Working	,a)G



2.3 DESCRIPTION OF TEST SETUP

Mode 1:

E-1 EUT E-2 AC Plug

Mode 2:

E-1 EUT



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.

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Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	ACTIVE STYLUS	N/A	K11	N/A	EUT
E-2	Adapter	HUAWEI	HW-051000CHQ	N/A	TING
	HURKTES	HUNKTE		HUAK	(See
		TESTING	TESTING		
	as and	HIVAN .	TING HUAR	an/G	TING (
AUAK TES	HUAKTE	HILANTES." HU	KIN	HUAKTES!	MAKTE

			0.25		

Shielded Type	Ferrite Core	Length	Note
			-10
THE	MAKTESTA	THE WAYT	SIII.
THE HUANTED	O HUM	(E)	HURKTES
9	STING	STING	
a a	HUAR	ING HUAK	-G -000 (
HUANTES	II AK TESTIL	NU KTES,	WANTESTIN HUMANTES.
(W)	0.	-), (1)
	Shielded Type	Shielded Type Ferrite Core	Shielded Type Ferrite Core Length

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 a column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	HKE-002	June 17, 2021
2	LISN	R&S	ENV216	HKE-059	June 17, 2021
3	EMI Test Receiver	R&S	ESR-7	HKE-010	June 17, 2021

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2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	June 17, 2021
2	Horn antenna	Schwarzbeck	9120D	HKE-013	June 17, 2021
3	EMI Test Receiver	R&S	ESR-7	HKE-010	June 17, 2021
4	Spectrum Analyzer	Agilent	N9020A	HKE-048	June 17, 2021
5	Amplifier	EMCI	EMC051845 SE	HKE-015	June 17, 2021
6	Amplifier	Agilent	83051A	HKE-016	June 17, 2021

2.5.3 HARMONICS AND FILCK

Iter	Nind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic flicker tester	California Instruments	AC2000A	HKE-037	June 17, 2021

2.5.4 ESD

_						
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1 TES	ESD device	Schloder	SESD 216	HKE-023	June 17, 2021



2.5.5 RS

0.0	TO THE STATE OF TH				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power amplifier	Vectawave	100W1000M7	HKE-142	June 17, 2021
2	Power amplifier	Vectawave	MPA-1000-600 0-100	HKE-143	June 17, 2021
3	Power Meter	KEYSIGHT	E4419B	HKE-144	June 17, 2021
4	Signal Generator	Agilent	N5181A	HKE-145	June 17, 2021
5	Field intensity probe	PMM	EP601	HKE-146	June 17, 2021
6	High gain antenna	Schwarzbeck	STPL9149	HKE-147	June 17, 2021

2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
HUAN TES	Full-featured immunity tester	HTEC	HV1P16T	HKE-017	June 17, 2021

2.5.7 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
111	Magnetic clamp	EMCL	EMCL-20	HKE-032	June 17, 2021
2	Integrated Conduction Sensitivity Test System	Schloder	CDG6000	HKE-033	June 17, 2021

2.5.8 MF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power frequency induction coil	HTEC Instruments Ltd.	HPFMF	HKE-049	June 17, 2021



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 (MHz)	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.

3.1.2 Telecommunication Ports CONDUCTED (Frequency Range 150KHz-30MHz) EMISSION

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	97~87	84~74	84~74	74~64
0.50 -30.0	84.00	74.00	74.00	64.00

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

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



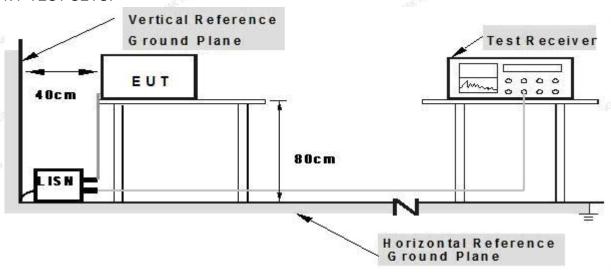
3.1.3 TEST PROCEDURE

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.

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- 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.

3.1.4 TEST SETUP



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

3.1.5 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.





3.1.6 TEST RESULTS

		(<u>.</u>	
EUT:	ACTIVE STYLUS	Model Name. :	K11
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode:	N/A	Phase :	N/A
Test Voltage :	N/A	STING MUS	X TES IN

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

	Clas	ss A	Class B		
FREQUENCY (MHz)	At 10m	At 3m	At 10m	At 3m	
	dBuV/m	dBuV/m	dBuV/m	dBuV/m	
30 – 230	40	50	30	40	
230 – 1000	47	57	37	47	

3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class A (at 3m) dBuV/m		Class B (at 3m) dBuV/m	
FREQUENCY (MHz)	Peak	Avg	Peak	Avg
1000-3000	76	56	70	50
3000-6000	80	60	74	54

Notes

- (1) The limit for radiated test was performed according to as following: CISPR 32.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m)

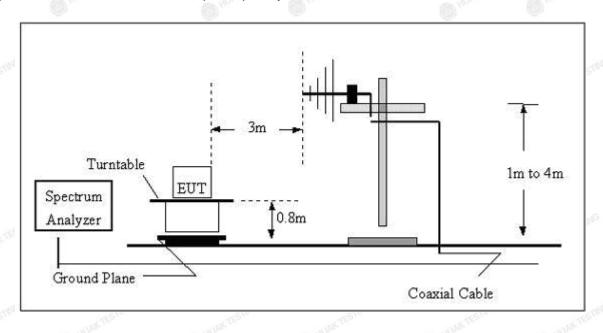
3.2.3 TEST PROCEDURE

- a. The measuring distance of at 10 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 10 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

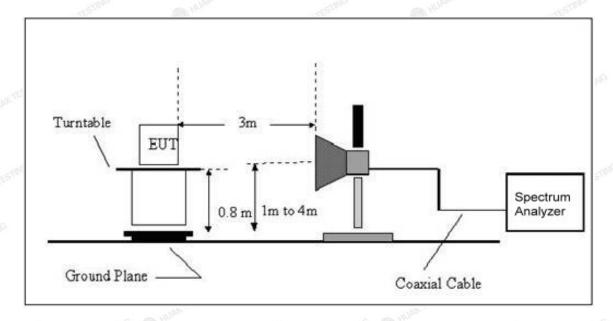


3.2.4 TEST SETUP

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



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



3.2.5 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.



3.2.6 TEST RESULTS

Note:

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

as below:

EUT:	ACTIVE STYLUS	Model Name :	K11	AKTESTING
Temperature:	24 ℃	Relative Humidity:	54%	O HO.
Pressure:	1010 hPa	Test Date :	2021-04-26	
Test Mode :	Mode 1	Polarization :	Horizontal	NKTESTING
Test Power :	DC5V From Type-C	No.	.G	10.



Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.5616	-15.69	27.28	11.59	40.00	28.41	100	174	Horizonta
2	162.0521	-18.03	34.34	16.31	40.00	23.69	100	38	Horizonta
3	206.7167	-14.89	39.26	24.37	40.00	15.63	100	233	Horizonta
4	250.4104	-13.40	37.62	24.22	47.00	22.78	100	248	Horizonta
5	281.4815	-13.19	39.10	25.91	47.00	21.09	100	77	Horizonta
6	665.0150	-4.87	29.28	24.41	47.00	22.59	100	71	Horizontal

Final Data List

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



	10.	- N. P.	
EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2021-04-26
Test Mode :	Mode 1	Polarization:	Vertical
Test Power :	DC5V From Type-C	A HUANTES!	HUAKTES. HUAKTES.



Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.6226	-14.07	32.82	18.75	40.00	21.25	100	118	Vertical
2	96.9970	-15.90	32.16	16.26	40.00	23.74	100	59	Vertical
3	166.9069	-17.58	38.12	20.54	40.00	19.46	100	186	Vertical
4	203.8038	-14.96	40.40	25.44	40.00	14.56	100	328	Vertical
5	243.6136	-13.69	37.72	24.03	47.00	22.97	100	298	Vertical
6	276.6266	-13.39	36.81	23.42	47.00	23.58	100	172	Vertical

Final Data List

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





3.2.7 TEST RESULTS(1000~6000MHz)

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	MAN (HUAN HUAN
Test Power :	N/A		STING

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.3 HARMONICS CURRENT

3.3.1 LIMITS OF HARMONICS CURRENT

	IEC 555-2							
	Table -	I		Table -	Ш			
Equipment	Harmonic	Max. Permissible	Equipment	Harmonic	Max. Permissible			
Category	Order	Harmonic Current	Category	Order	Harmonic Current			
	n	(in Ampers)		n	(in Ampers)			
	Odd	Harmonics		Odd	Harmonics			
	3	2.30		3	0.80			
	5 7	1.14		5	0.60			
		0.77		7	0.45			
Non	9	0.40	TV	9	0.30			
Portable	11	0.33	Receivers	11	0.17			
Tools	13	0.21		13	0.12			
or	15≤n≤39	0.15 · 15/n		15≤n≤39	0.10 · 15/n			
TV	Even	Harmonics		Even Harmonics				
Receivers	2	1.08		2	0.30			
	4	0.43		4	0.15			
	8	0.30						
	8≤n≤40	0.23 · 8/n		DC	0.05			

EN 61000-3-2/IEC 61000-3-2						
Equipment	Max. Permissible	Equipment	Harmonic	Max. Per	missible	
Category	Harmonic Current	Category	Order	Harmonic	Current	
	(in Ampers)		n	(in A)	(mA/w)	
			3	2.30	3.4	
	Same as Limits		5	1.14	1.9	
Class A	Specified in	Class D	7	0.77	1.0	
	4-2.1, Table - I,		9	0.40	0.5	
	but only odd		11	0.33	0.35	
	harmonics required		13≤n≤39	see Table I	3.85/n	
			only o	dd harmonics r	equired	



3.3.1.1TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

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b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

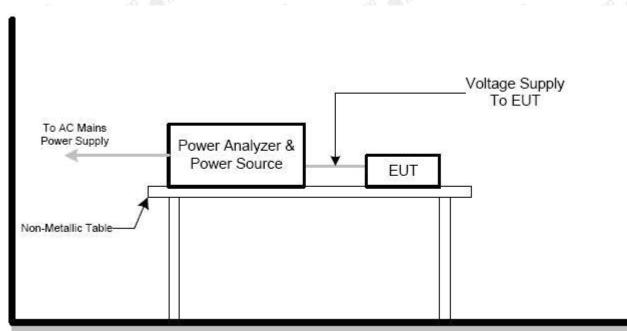
Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

3.3.1.2 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.

3.3.1.3 TEST SETUP







3.3.2 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	HUAR	Mark.
Test Power :	N/A		- Diam

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Limits		Descriptions
16212	IEC555-3	IEC/EN 61000-3-3	Descriptions
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	≤ 4%	Maximum Relative V-change
d (t)	N/A	$\leq 3.3\%$ for $>500~ms$	Relative V-change characteristic

3.4.1.1TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

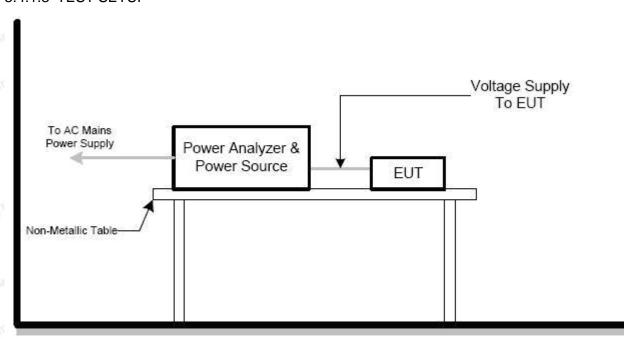
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.1.2 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.

3.4.1.3 TEST SETUP







3.4.2 TEST RESULTS

17.72			- I Dire		102
EUT:	ACTIVE S	TYLUS	Model Name	; K11	6)
Temperature :	N/A		Relative Humi	dity: N/A	
Pressure :	N/A	-ESTING	Test Date :	N/A	-ESTING
Test Mode :	N/A	HUAK .	MUAN.	MIAK .	MHUAX.
Test Power:	N/A	THE		THE	_
Test Result:	N/A	WIAK TES	TING	WAY TES	TING

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B marti
1EG/EIN 01000-4-2	4KV HCP discharge 4KV VCP discharge	Indirect Mode	В
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz, 1000Hz, 80%, AM modulated	Enclosure	A HUARTEST
3. EFT/Burst	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	В
IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B HULLANTE
4. Surges	1.2/50(8/20) Tr/Th us	L-N	В
IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-PE N-PE	B
	0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated	CTL/Signal Port	THE A
5 Injected Current IEC/EN 61000-4-6	150Ω source impedance 0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated 150Ω source impedance	DC Power Port	A A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz,	Enclosure	A A
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip 100% Voltage dip 30% Interruption 100%	AC Power Port	B C C



4.2 GENERAL PERFORMANCE CRITERIA

According to EN 55035 standard, the general performance criteria as following:

Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

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.



4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV (Direct)
	Contact Discharge : 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

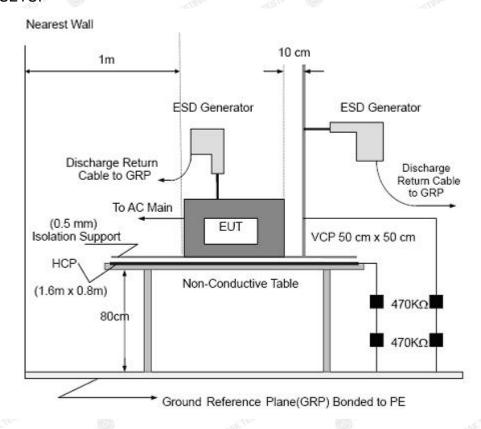
The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

b. Air discharges at insulation surfaces of the EUT.It was at least ten single discharges with positive and negative at the same selected point.

4.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



4.4.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	24 ℃	Relative Humidity:	50%
Pressure :	1010 hPa	Test Date :	2021-04-27
Test Mode :	Mode 1	HIAN	Muse Hive
Test Power :	DC5V From Type-C		SING

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	- Wille				16.7	/Pin					- 2	MAN				ii 1P	VI	A Comment
Mode			Air	Dis	cha	ırge	!			Co	nta	ct C	Disc	har	ge			
Test level (kV)	4	1	8	3	1	0	1	5	2	2	4	1	(3	8	3	Criterion	Result
Test Location	+	-	+	-	+	-	+	-	+	-	+	1	+	-	+	1		
HCP									Α	Α	Α	Α						PASS
VCP		- 25	3					-\G	Α	Α	Α	Α	-10				.nG	PASS
Metallic parts	URKT	E51"				. 11	DK TE	3/11	Α	Α	Α	Α	2/0				NAY TESTIN B	PASS
enclosure	Α	Α	Α	Α	6	9)				-	9)					0		PASS
slot slot	Α	Α	Α	Α		-56	STING										TESTING	PASS

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 - Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following: 1.left side 2.right side 3.front side 4.rear side
- 5) N/A denotes test is not applicable in this test report



4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A TESTING TESTING
Frequency Range:	80 MHz - 1000 MHz, 1800(±1%)MHz, 2600(±1%)MHz, 3500(±1%)MHz, 5000(±1%)MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 TEST PROCEDURE

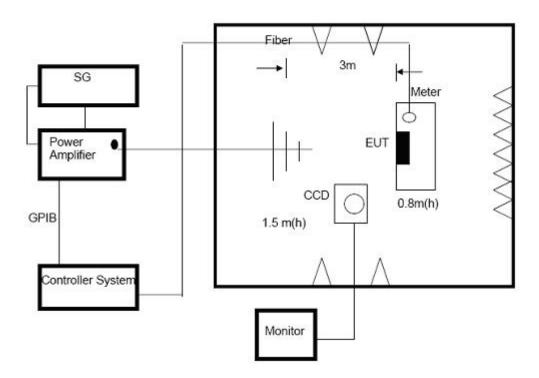
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

4.5.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



4.5.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	24 ℃	Relative Humidity:	50%
Pressure :	1010 hPa	Test Date :	2021-04-28
Test Mode :	Mode 1	O HUAN	HUAN HUAN
Test Power :	DC5V From Type-C		TING

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Frequency Range	RF Field	R.F.	Azimuth	Perform.	Results	Judgment
(MHz)	Position	Field Strength		Criteria		3
TING	MILAN.	TING	Front		OWN	
80-1000,		MAKTES.		MAU.	LED.	
1800 (±1%),	0	3 V/m (rms)	Rear	(i)		
2600 (±1%),	H/V	AM Modulated		Α	Α	PASS
3500 (±1%),	3	1000Hz, 80%	Left	,4	MG.	
5000 (±1%)	THE HOUSE	K. The	IAKTE	HUAKTE	200	
	0	0	Right	0	-	

Note:

- 1) N/A denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4	
Required Performance	B TESTING	"TESTING
Test Voltage:	Power Line : 1 kV	HI AN
	Signal/Control Line: 0).5 KV
Polarity:	Positive & Negative	STING
Impulse Frequency:	5 kHz	
Impulse Wave shape :	5/50 ns	w TESTING
Burst Duration:	15 ms	CAMIC WHILE
Burst Period:	300 ms	HAY IN THE PROPERTY OF THE PARTY OF THE PART
Test Duration:	Not less than 1 min.	

4.6.2 TEST PROCEDURE

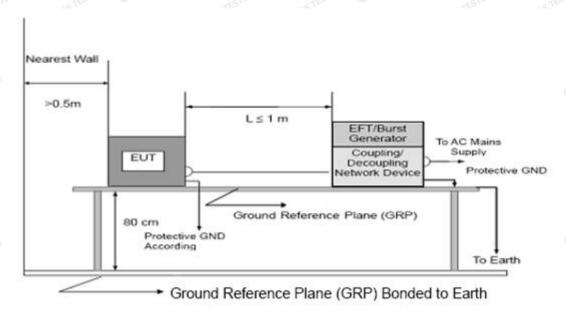
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

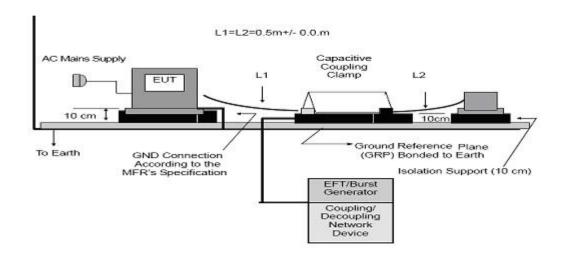
The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute



4.6.3 TEST SETUP





Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.





4.6.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11	(a)
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	TESTING
Test Mode :	N/A	O HUAN	HUAN	(HUAR
Test Power :	N/A		CIME	

Report No.: HK2104271305-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode





4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	B TESTING
Wave-Shape:	Combination Wave
	1.2/50 us Open Circuit Voltage
	8 /20 us Short Circuit Current
Test Voltage:	Power Line: 0.5 kV, 1 kV, 2 kV
Surge Input/Output:	DC Line
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

4.7.2 TEST PROCEDURE

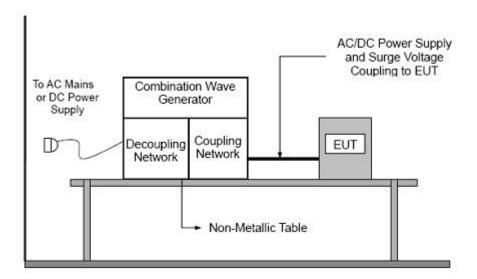
a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:
- d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).



4.7.3 TEST SETUP







4.7.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11	(a)
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	TESTING
Test Mode :	N/A	O HUAN	HUAN	(HUAR
Test Power :	N/A		CIME	

Report No.: HK2104271305-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6	
Required Performance	A TESTING	
Frequency Range:	0.15-10 MHz, 10-30MHz, 30-80MHz	
Field Strength:	3 V r.m.s, 3V to 1V r.m.s, 1V r.m.s	
Modulation:	1kHz Sine Wave, 80%, AM Modulation	
Frequency Step:	1 % of fundamental	
Dwell Time:	at least 3 seconds	

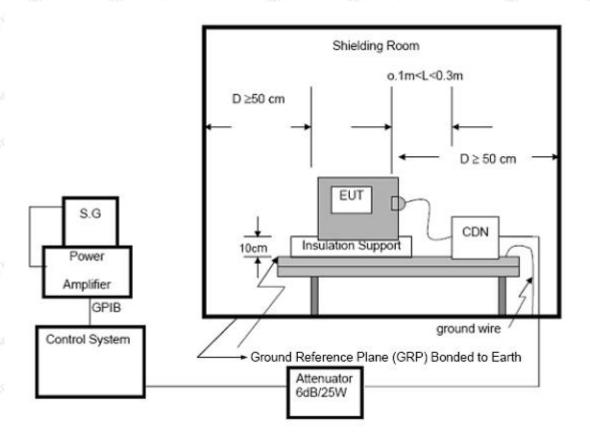
4.8.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

4.8.3 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.





4.8.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11	(a)
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	TESTING
Test Mode :	N/A	O HUAN	HUAN	(HUAR
Test Power :	N/A		CIME	

Report No.: HK2104271305-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.9 POWER FREQUENCY MAGNETIC FIELD TESTING

4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8
Required Performance	A TESTING
Frequency Range:	50Hz
Field Strength:	1 A/m
Observation Time:	1 minute
Inductance Coil:	Rectangular type, 1mx1m

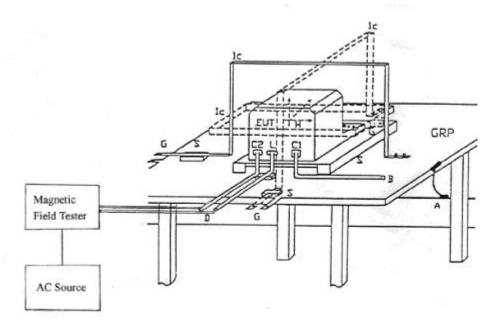
4.9.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.

4.9.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.





4.9.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	Mar (C)	HUAN HUAN
Test Power :	N/A		TIMG

Report No.: HK2104271305-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



4.10 VOLTAGE INTERRUPTION/DIPS TESTING

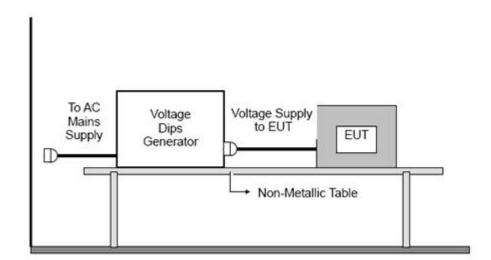
4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11	
Required Performance	B (For 100% Voltage Dips)	
	C (For 30% Voltage Dips)	
	C (For 100% Voltage Interruptions)	
Test Duration Time:	Minimum three test events in sequence	
Interval between Event:	Minimum ten seconds	
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°	
Test Cycle:	3 times	

4.10.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.10.3 TEST SETUP







4.10.4 TEST RESULTS

EUT:	ACTIVE STYLUS	Model Name :	K11
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	3 HUAN	HUAN DHUAN
Test Power :	N/A		TIMG

Report No.: HK2104271305-1ER

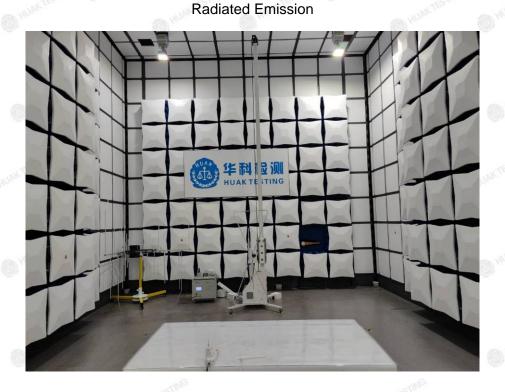
Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



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Electrostatic Discharge





ATTACHMENT PHOTOGRAPHS OF EUT

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Photo 1



Photo 2











Photo 4

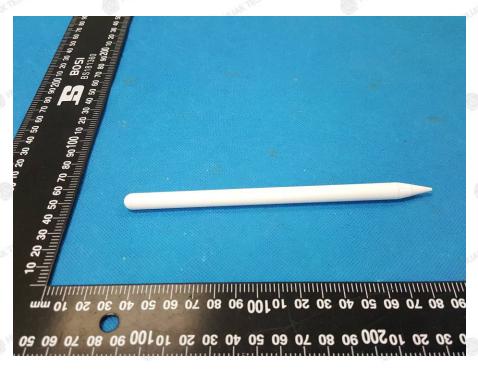










Photo 6









Photo 8





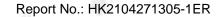


Photo 9

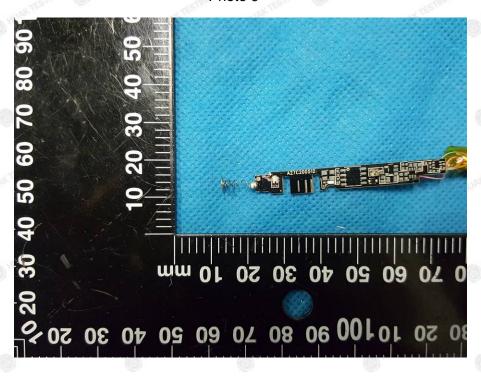


Photo 10

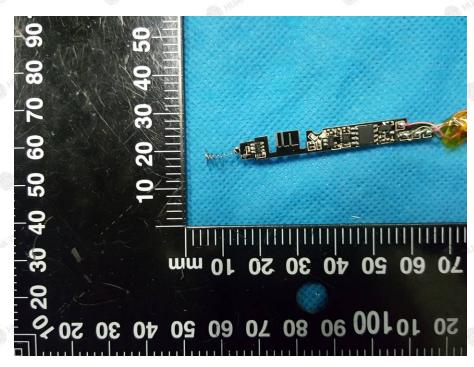






Photo 11

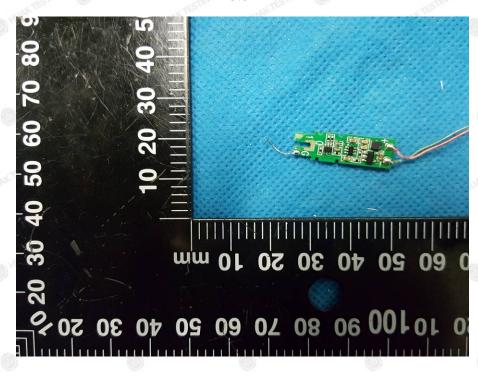


Photo 12

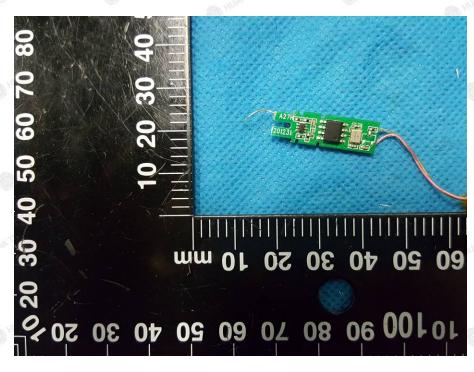






Photo 13

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