



EMC Test Report

Report No.: NEI00020221101EE01

APPLICANT : Shenzhen Youchangshumadianzi Youxiangongsi
ADDRESS : Xixiangjiedao Shuikulu, Zhongxi ECO guoji 316-318, ShenzhenShi
: Baoanqu, Guangdong, CN, 518000
PRODUCT DESIGNATION : android screen
MODEL NAME : UB-6920Q
SAMPLE RECEIVED DATE : Nov. 01, 2022
DATE OF TEST : Nov. 07, 2022
STANDARD(S) : EN 50498:2010
TEST RESULTS : Pass
REPORT VERSION : V1.0

Prepared By

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Fever Chen(Chen Haonan)

Reviewed By

Jack Ji

Jack Ji (Ji Yumin)

Approved By

Richard Huang

Richard Huang (Huang Xiang)



New Energy Inspection (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 10, 2022	Valid	Original Report

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1. TEST RESULT SUMMARY

Test Item	Test Standard	Result
Radiated Emission	EN 50498:2010	Pass
Transient Emission	EN 50498:2010	Pass
Transient Immunity	EN 50498:2010	Pass

Note:

1. Each test item follows test standard and with no deviation.
2. "Pass" represents "result meets the requirement"; "Fail" represents "result doesn't meet the requirement"; "NA or —" represents "result doesn't judge".
3. The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.
- Uncertainty of Radiated Emission-ALSE Method, $U_c = \pm 4.25$ dB

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2. GENERAL DESCRIPTION OF PRODUCT

2.1 APPLICANT

Name: Shenzhen Youchangshumadianzi Youxiangongsi
Address: Xixiangjiedao Shuikulu, Zhongxi ECO guoji 316-318, ShenzhenShi Baoanqu, Guangdong, CN, 518000

2.2 MANUFACTURER

Name: Shenzhen Youchangshumadianzi Youxiangongsi
Address: Xixiangjiedao Shuikulu, Zhongxi ECO guoji 316-318, ShenzhenShi Baoanqu, Guangdong, CN, 518000

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Designation: android screen

Number of Sample: 1 pc

Sample Number: 221101067

Model Name: UB-6920Q

Brand Name: Koason

Series Models: UB-6921Q, UB-6923Q, UB-6925Q, UB-6944Q, UB-6945Q, UB-7938Q, UB-7939Q, UB-7942Q, UB-7944Q, UB-8501Q, UB-8504Q, UB-8510Q, UB-8701Q, UB-8702Q, UB-8802Q, KS-W195, KS-W195Q, KS-H507Q, KS-W808, KS-W508, KS-H509Q, KS-W601, KS-W701, KS-W711Q, KS-W197, KS-W507, KS-W601Q, KS-H509Q, KS-W601, KS-W701, KS-H908Q, KS-927QH, KS-922Q, KS-920Q, KS-918Q, KS-919Q, KS-908Q, KS-925H, KS-908QH, KS-924QH, KS-H925Q, KS-923Q, KS-907Q, KS-906Q, KS-905Q, KS-H920Q, KS-H919Q

Declaration of Difference: Series model are identical with test model except Panel plastic and base.

Test Voltage: DC13.5±0.5V

Sample Submitting Way: Provided by customer Sampling

Sample Grounding Method: Remote Ground

Note: The sample's information is provided by the customer, and the laboratory is not responsible for its authenticity.

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2.4 TEST MODE

Mode	Mode Description
Mode 1	The EUT is normally powered on, the screen is lit.

2.5 OBSERVATION METHOD FOR IMMUNITY TEST

Method	Description of The Monitoring Methods
Visual	Monitor whether the screen image changes

2.6 CLASSIFICATION OF FUNCTIONAL STATUS

EN 50498:2010	
Criteria A:	All functions of a device/system perform as designed during and after exposure to disturbance.
Criteria B:	All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
Criteria C:	One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
Criteria D:	One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
Criteria E:	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

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3. LABORATORY INFORMATION

Laboratory Name: New Energy Inspection(Shenzhen) Co., Ltd

Laboratory Address: 1/F West, Building D, Sanwei Qinyu Technical Park, Nanchang Community, Bao'an Avenue, Xixiang, Baoan District, Shenzhen, Guangdong, China

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4. EQUIPMENT LIST

4.1 TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment No.	Equipment Name	Manufacturer	Model	Cal. Due
NEI-VE-E-001	Chamber1#	ETS-Lindgren	CT001566-1317	2024/12/27
NEI-VE-E-013	Test Receiver	KEYSIGHT	N9038A	2023/05/20
NEI-VE-E-018	V-Network	Schwarzbeck	NNBM 8124	2023/05/20
NEI-VE-E-019	V-Network	Schwarzbeck	NNBM 8124	2023/05/20
NEI-VE-E-344	Biconical Antenna	Schwarzbeck	VHBB 9124	2023/03/17
NEI-VE-E-020	Log Periodic Dipole Antenna	ETS-Lindgren	3148B	2023/05/06
NEI-VE-S-001	JS32-VC Test System	Tonscend	3.0.0.0	/ ¹

Note¹: The equipment check before test.

TEST EQUIPMENT OF TRANSIENT EMISSION

Equipment No.	Equipment Name	Manufacturer	Model	Cal. Due
NEI-VE-E-503	Digital Oscilloscope	Tektronix	DPO7104C	2023/09/05
NEI-VE-E-213	Vehicle Transient Conduction Test Device	3c-Test	VTE 743T1	2022/11/18
NEI-VE-E-215	Electronic Camera	3c-Test	ES-74T1	/ ¹

Note¹: The equipment check before test.

TEST EQUIPMENT OF TRANSIENT IMMUNITY TEST

Equipment No.	Equipment Name	Manufacturer	Model	Cal. Due
NEI-VE-E-032	Voltage Drop Simulator	EM Test	VDS 200	2023/05/12
NEI-VE-S-031	Electrical Fast Transient Generator	EM test	EFT 200	2023/05/12
NEI-VE-E-030	Micropulse Generator	EM test	MPG 200	2023/08/10
NEI-VE-S-003	ISMISO Test system	EM Test AG	3.91	/ ¹

Note¹: The equipment check before test.

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4.2 SUPPORT EQUIPMENT

No.	Device Type	Provider	Model Name	Serial No.	Data Cable	Power Cable
1	/	/	/	/	/	/

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5. RADIATED EMISSION TEST

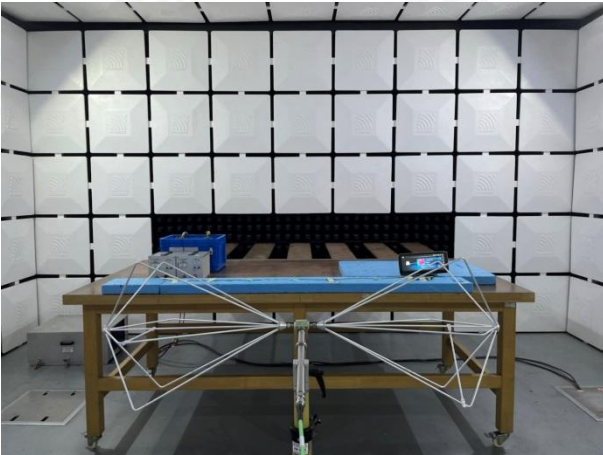
5.1 DESCRIPTION OF THE TEST LOCATION

Test location: Semi-anechoic Chamber

Test distance: 1 meter

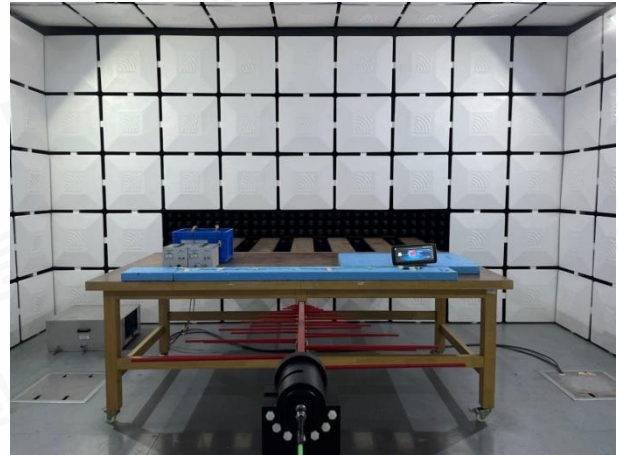
5.2 PHOTO DOCUMENTATION OF THE TEST SET-UP

30MHz-200MHz

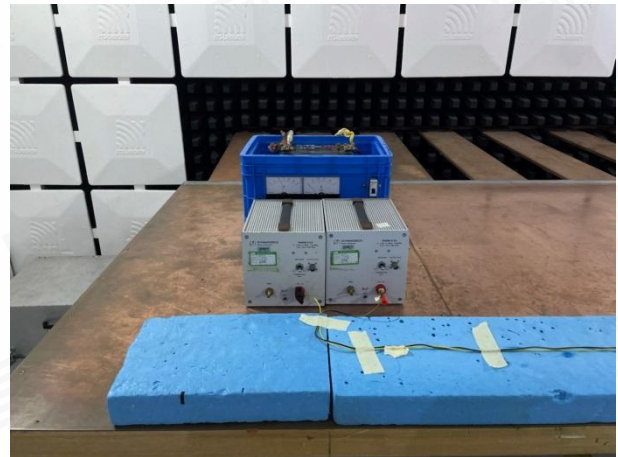


Connection photo 1

200MHz-1000MHz



Connection photo 2



Note: (1) The ESA was placed in a height of 5 cm, isolated to the ground plane. There was no connection to the ground plane. The ESA has to be installed isolated from the vehicle ground.
(2) Cables which are longer than 2m have been bundled to a length of 2 m.

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5.3 TEST SPECIFICATION

Frequency range: 30MHz – 1000MHz

The test was carried out in the following operation mode(s):

- Mode 1 for 12V_{DC}

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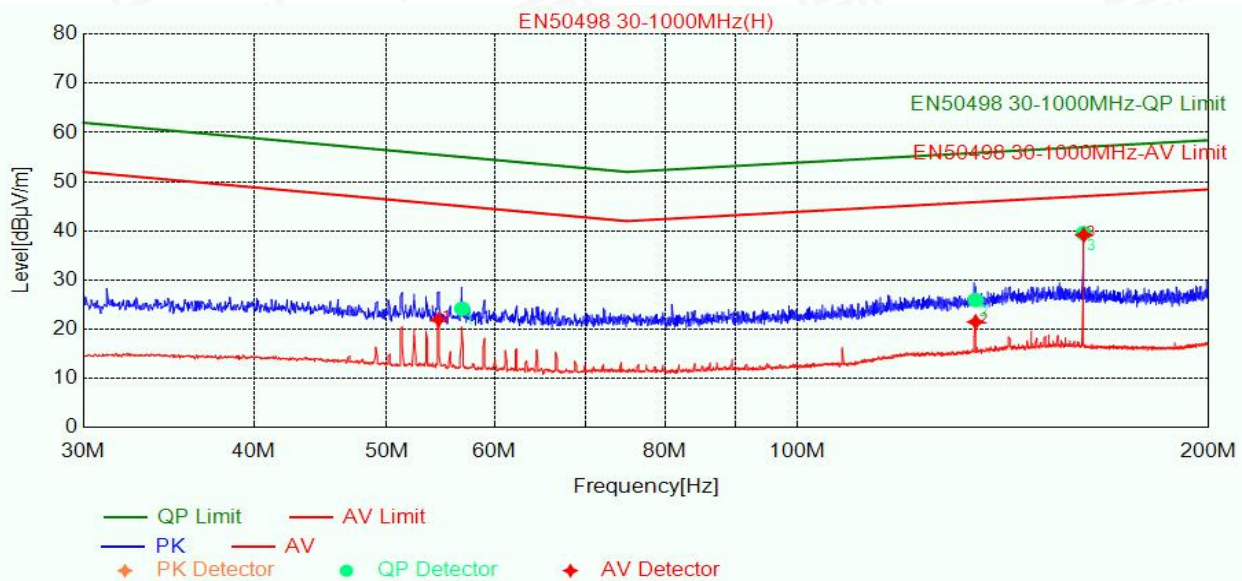
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5.4 TEST RESULT

EUT Name:	android screen	Sample Number:	221101067
Test Voltage:	DC12.88V	Model(s):	UB-6920Q
Antenna polarization:	Horizontal	Frequency Range:	30MHz–200MHz
Temperature:	25.2° C	Humidity:	51%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Alpha Huang	Test Date:	2022.11.07



Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	54.6M	120	21.96	45.46	23.50	AV	H	PASS
2	135M	120	21.50	45.86	24.36	AV	H	PASS
3	162M	120	39.17	47.06	7.89	AV	H	PASS

Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	56.804544M	120	24.20	55.03	30.83	QP	H	PASS
2	134.991416M	120	25.96	55.86	29.90	QP	H	PASS
3	161.98785M	120	39.58	57.06	17.48	QP	H	PASS

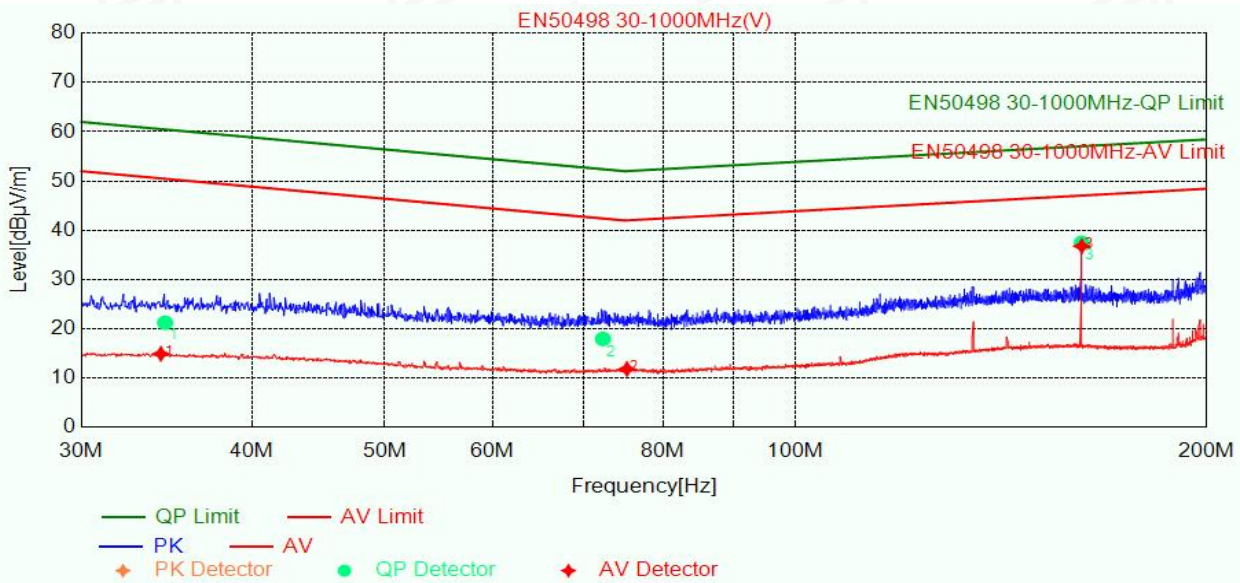
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EUT Name:	android screen	Sample Number:	221101067
Test Voltage:	DC12.88V	Model(s):	UB-6920Q
Antenna polarization:	Vertical	Frequency Range:	30MHz-200MHz
Temperature:	25.2°C	Humidity:	51%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Alpha Huang	Test Date:	2022.11.07



Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	34.3M	120	14.94	50.54	35.60	AV	V	PASS
2	75.25M	120	11.87	42.02	30.15	AV	V	PASS
3	162M	120	36.79	47.06	10.27	AV	V	PASS

Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	34.5414M	120	21.27	60.46	39.19	QP	V	PASS
2	72.269508M	120	17.96	52.40	34.44	QP	V	PASS
3	162.0081M	120	37.49	57.06	19.57	QP	V	PASS

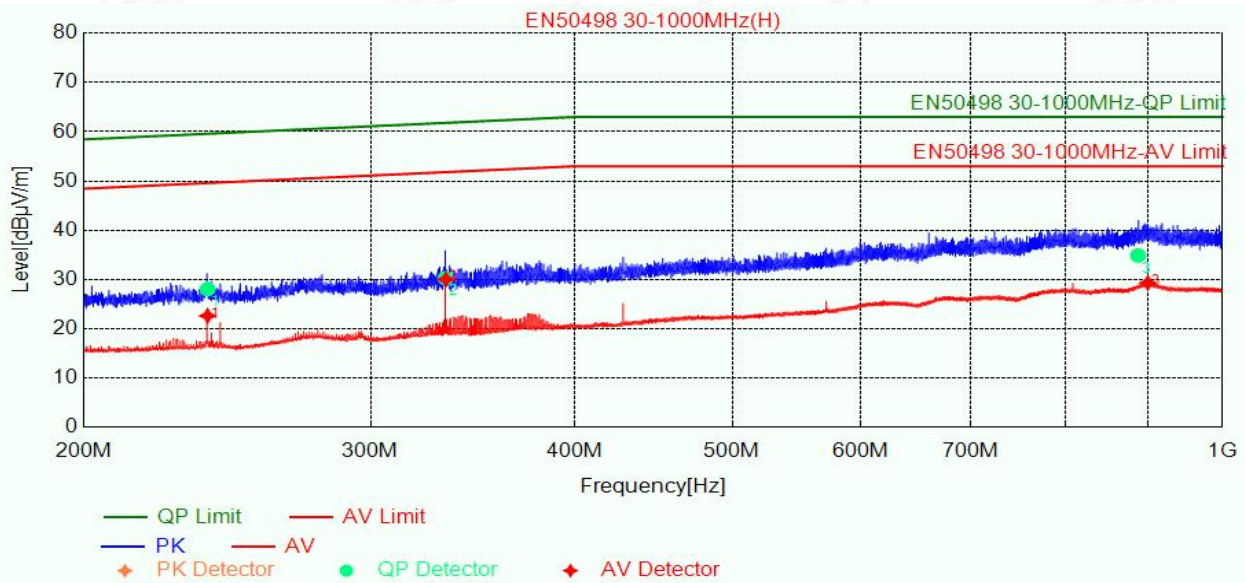
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EUT Name:	android screen	Sample Number:	221101067
Test Voltage:	DC12.88V	Model(s):	UB-6920Q
Antenna polarization:	Horizontal	Frequency Range:	200MHz-1000MHz
Temperature:	25.2°C	Humidity:	51%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Alpha Huang	Test Date:	2022.11.07



Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	238.35M	120	22.66	49.60	26.94	AV	H	PASS
2	333.75M	120	30.05	51.81	21.76	AV	H	PASS
3	899.65M	120	29.35	53.00	23.65	AV	H	PASS

Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	238.348744M	120	28.09	59.60	31.51	QP	H	PASS
2	333.609825M	120	30.30	61.81	31.51	QP	H	PASS
3	887.218539M	120	34.90	63.00	28.10	QP	H	PASS

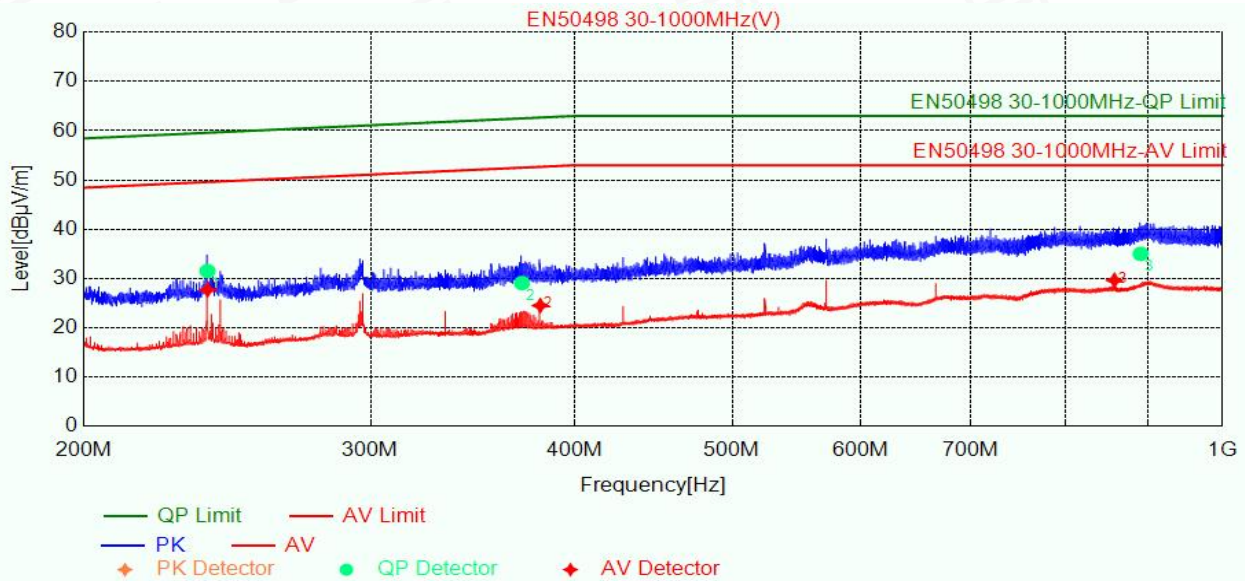
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EUT Name:	android screen	Sample Number:	221101067
Test Voltage:	DC12.88V	Model(s):	UB-6920Q
Antenna polarization:	Vertical	Frequency Range:	200MHz-1000MHz
Temperature:	25.2° C	Humidity:	51%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Alpha Huang	Test Date:	2022.11.07



Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	238.35M	120	27.73	49.60	21.87	AV	V	PASS
2	381.35M	120	24.54	52.69	28.15	AV	V	PASS
3	858.15M	120	29.66	53.00	23.34	AV	V	PASS

Data List								
NO.	Frequency [Hz]	RBW [kHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Type	Verdict
1	238.31549M	120	31.54	59.60	28.06	QP	V	PASS
2	371.54856M	120	29.11	62.52	33.41	QP	V	PASS
3	890.37148M	120	35.03	63.00	27.97	QP	V	PASS

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6. TRANSIENT EMISSION TEST

6.1 TEST LIMIT

Suggested limits for the classification of 24V equipment	
Positive	+75V
Negative	- 100V

6.2 DESCRIPTION OF THE TEST LOCATION

Test location: Shielded room

6.3 PHOTO DOCUMENTATION OF THE TEST SET-UP

TRANSIENT EMISSION TEST-SLOW PULSE



TRANSIENT EMISSION TEST-FAST PULSE



6.4 TEST SPECIFICATION

The test was carried out in the following operation mode(s):

-Mode 1 for 12V_{DC}

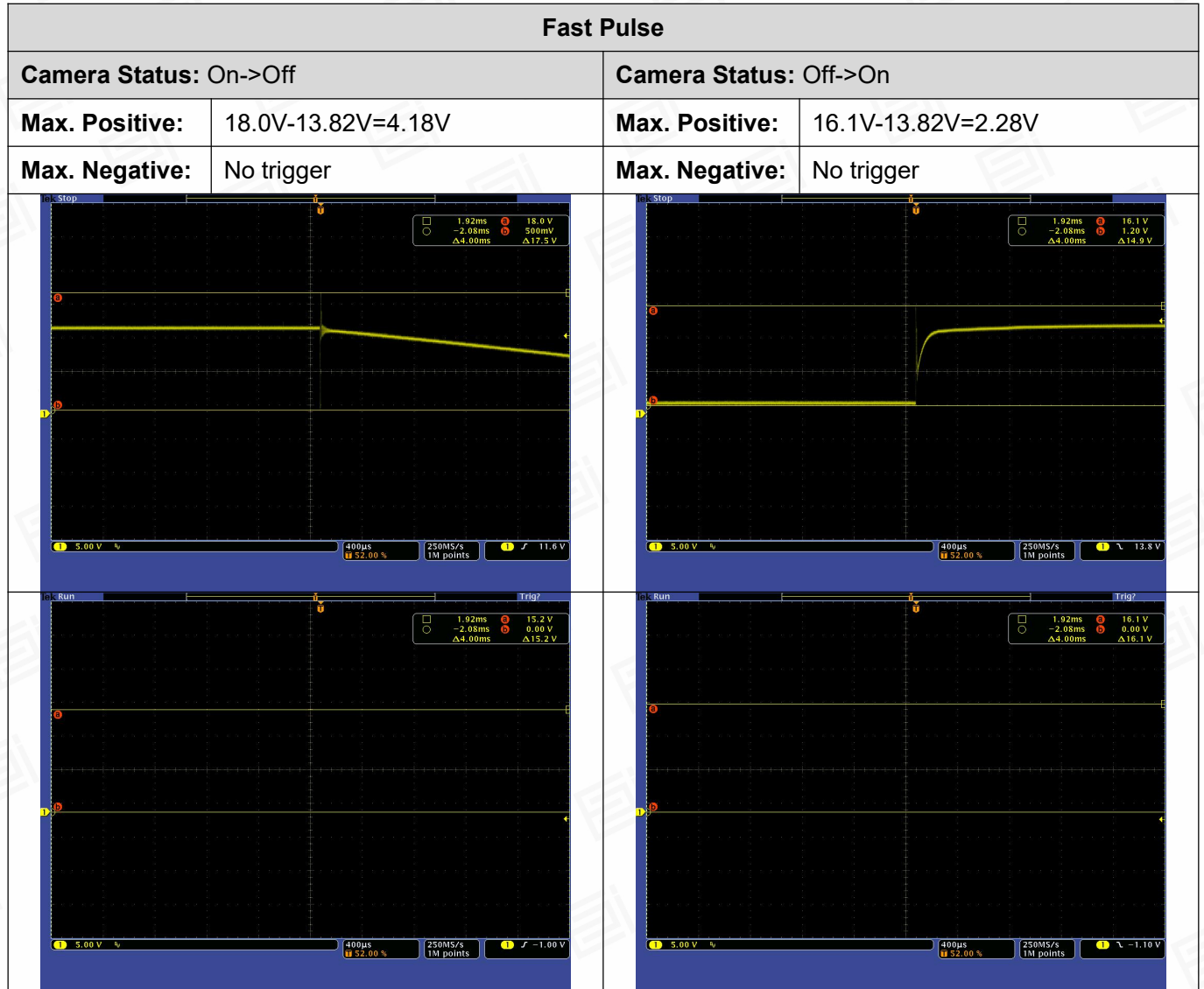
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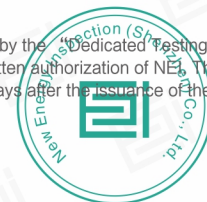
6.5 TEST RESULT

Product Name:	android screen	Sample Number:	221101067
Test Model:	UB-6920Q	Supply Voltage:	DC 13.82V
Temperature:	22.3° C	Humidity:	54%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Jame Liu	Test Date:	2022.11.07



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Slow Pulse			
Camera Status: On->Off		Camera Status: Off->On	
Max. Positive:	13.42V-13.82V=-0.42V	Max. Positive:	13.80V-13.82V=-0.02V
Max. Negative:	No trigger	Max. Negative:	No trigger

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7. TRANSIENT IMMUNITY TEST

7.1 DESCRIPTION OF THE TEST LOCATION

Test location: Shielded room

7.2 PHOTO DOCUMENTATION OF THE TEST SET-UP

TRANSIENT IMMUNITY TEST



7.3 TEST SPECIFICATION

<u>Pulse 1:</u>	Test level:	-75V V(12VDC)
	Number of pulses:	5000
<u>Pulse 2a:</u>	Test level:	+37V(12VDC)
	Number of pulses:	5000
<u>Pulse 2b:</u>	Test level:	+10V(12VDC)
	Number of pulses:	10
<u>Pulse 3a:</u>	Test level:	-112V(12VDC)
	Coupling duration:	1 h
<u>Pulse 3b:</u>	Test level:	+75V(12VDC)
	Coupling duration:	1 h
<u>Pulse 4:</u>	Test level:	-6V(12VDC)
	Number of pulses:	1
<u>Operation mode:</u>		Mode 1

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7.4 TEST RESULT

Product Name:	android screen	Sample Number:	221101067
Test Model:	UB-6920Q	Supply Voltage:	DC 12.97V
Temperature:	22.3°C	Humidity:	54%
Test Mode:	Mode 1	Test Result:	Pass
Tester:	Jame Liu	Test Date:	2022.11.07

Test Pulse	Test Voltage	Number of Pulses/ Duration	Required Status	Functional Status
1(12V)	-75 V	5000	D	C ²
2a(12V)	+37 V	5000	D	A ¹
2b(12V)	+10 V	10	D	C ²
3a(12V)	-112 V	1 h	D	A ¹
3b(12V)	+75V	1 h	D	A ¹
4(12V)	-6 V	1	D	C ²

Remark:

1. During test and after test, the EUT works normal.
2. During the test, the sample is turned off. After the test, the sample automatically recovers the working state before the test.

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7.5 CLASSIFICATION OF FUNCTIONAL STATUS

Criteria A:	All functions of a device/system perform as designed during and after exposure to disturbance.
Criteria B:	All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
Criteria C:	One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
Criteria D:	One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
Criteria E:	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

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APPENDIX A: PHOTOGRAPHS OF EUT

EUT-front



EUT-back

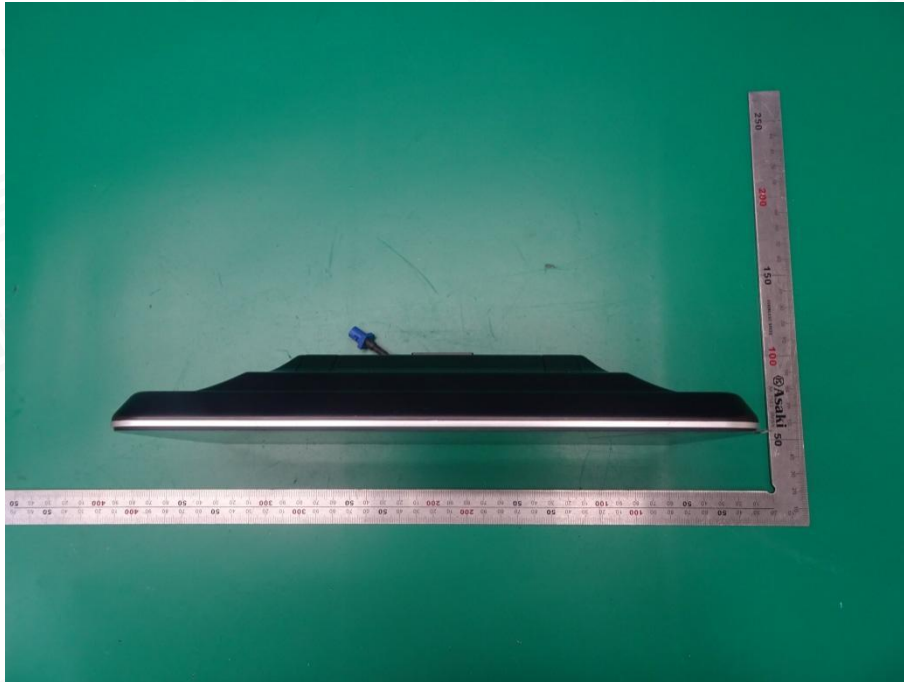


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EUT-top



EUT-down



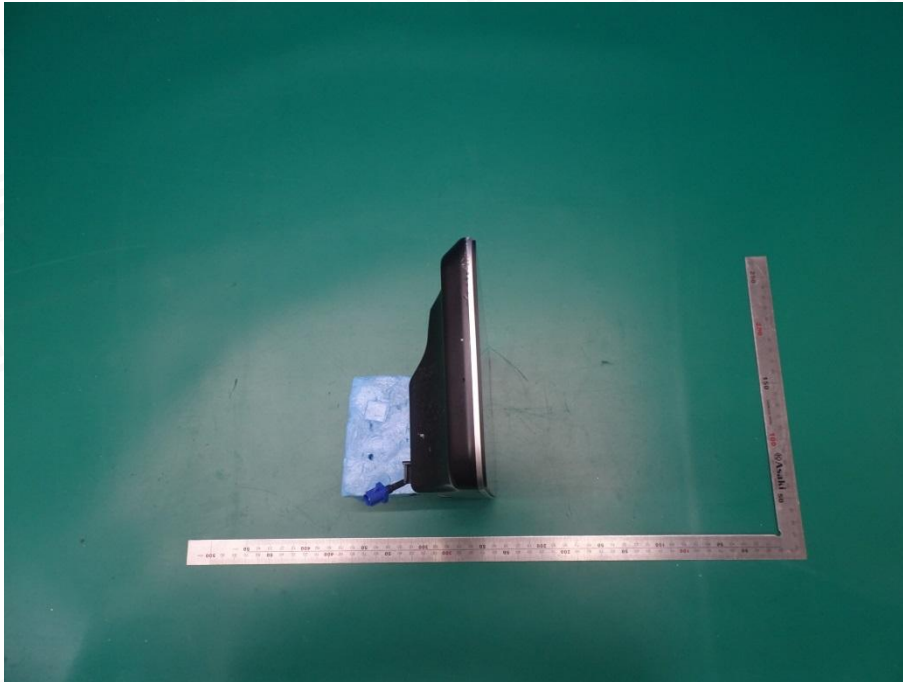
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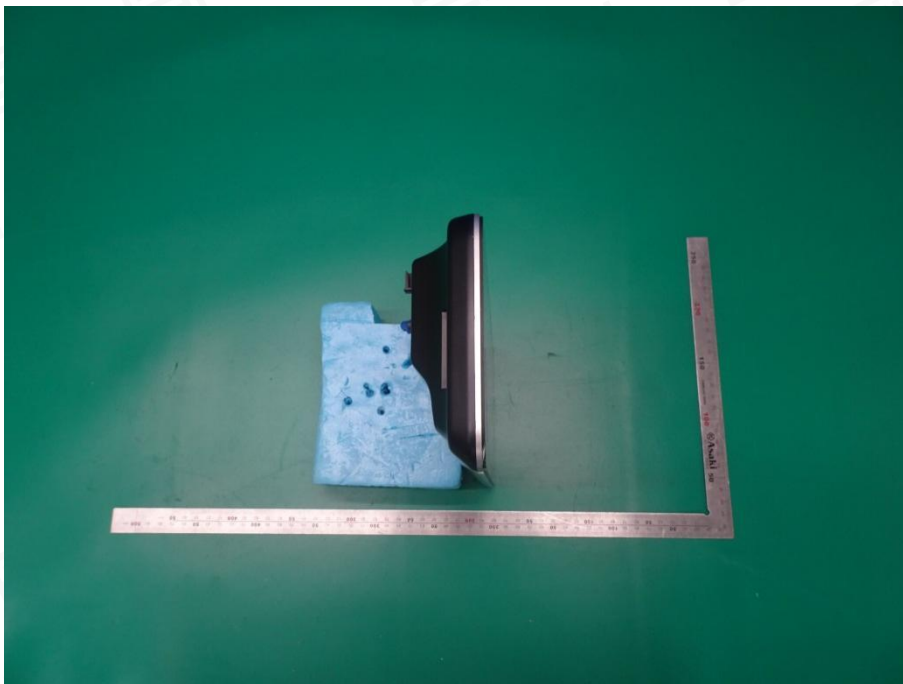




EUT-left



EUT-right

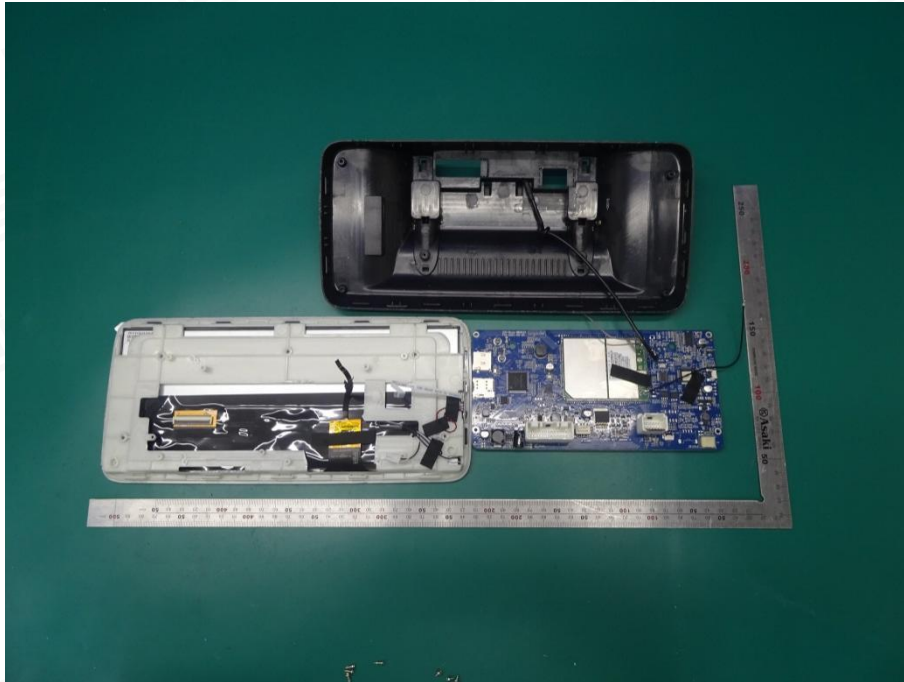


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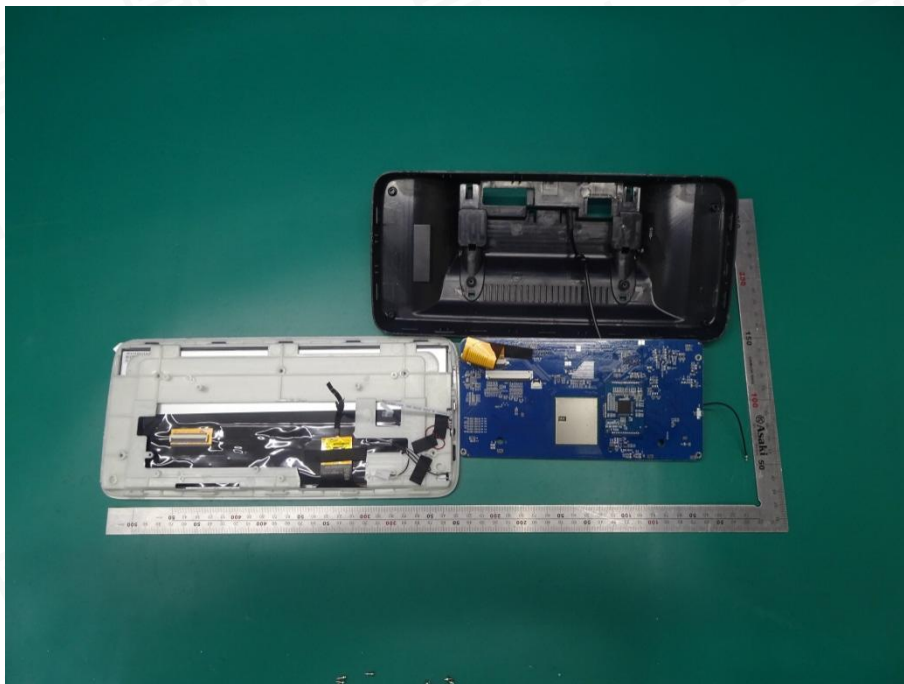
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EUT-1



EUT-2



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EUT-3



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples are accepted by the New Energy Inspection (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The results of report apply to the sample as received. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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