



## ATTESTATION OF CONFORMITY

**Attestation Number :** AOCRDG200723006-02  
**Date of Issue:** 2020-08-11  
**Product:** NEXTION HMI TOUCH SCREEN  
**Model(s):** NX3224T028  
**Brand:** NEXTION  
**Manufacturer & Address:** Shenzhen Sonoff Technologies Co.,Ltd.  
1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China

Bay Area Compliance Laboratories Corp. (Dongguan) hereby declares that the submitted sample(s) of the above equipment has been tested for CE-marking and in accordance with the following European Directives and Standards:

### EMC Directive 2014/30/EU

Harmonized Standards	Test Report Number
EN 55032:2015* EN 55035:2017 EN 61000-3-2:2014 EN 61000-3-3:2013	RDG200723006-01

\* Note: Harmonized Standards not yet cited in OJ



Mark is permitted only after all applicable requirements are met in accordance with the European Union Rules, including the manufacturer's issuance of a "Declaration of Conformity. The Declaration of Conformity is issued under sole responsibility of manufacturer. This attestation is specific to the standard(s) stated above and compliance with additional standards and/or European directives are applicable.

Attestation by: Jerry Zhang

Lab Manager

Jerry Zhang

Signature



EN 55032:2015

EN 55035:2017

EN 61000-3-2:2014

EN 61000-3-3:2013

## TEST REPORT

For

**Shenzhen Sonoff Technologies Co.,Ltd.**

1001, BLDG8, Lianhua Industrial Park, shenzhen, GD, China

**Model: NX3224T028**

<b>Report Type:</b> Original Report	<b>Product Type:</b> NEXTION HMI TOUCH SCREEN
<b>Report Number:</b>	RDG200723006-01
<b>Report Date:</b>	2020-08-11
<b>Reviewed By:</b>	Redick Zhang EMC Engineer
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	NEXTION HMI TOUCH SCREEN
<b>EUT Model:</b>	NX3224T028
<b>Rated Input Voltage:</b>	5Vdc
<b>The Highest Operating Frequency:</b>	below 108MHz
<b>I/O Ports:</b>	N/A
<b>EUT Function:</b>	TOUCH SCREEN
<b>Serial Number:</b>	200723006
<b>EUT Received Date:</b>	2020.07.24
<b>EUT Received Status:</b>	Good

### Objective

This report is prepared on behalf of *Shenzhen Sonoff Technologies Co.,Ltd.* in accordance with EN 55032:2015 Electromagnetic compatibility of multimedia equipment — Emission Requirements; EN 55035:2017 Electromagnetic compatibility of multimedia equipment — Immunity Requirements; EN 61000-3-2:2014 Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase); EN 61000-3-3:2013 Electromagnetic compatibility (EMC)Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.

The objective is to determine the compliance of EUT with:

EN 55032:2015  
EN 55035:2017  
EN 61000-3-2:2014  
EN 61000-3-3:2013.

### Test Methodology

All measurements contained in this report were conducted with EN 55032:2015 Electromagnetic compatibility of multimedia equipment — Emission Requirements; EN 55035:2017 Electromagnetic compatibility of multimedia equipment — Immunity Requirements; EN 61000-3-2:2014 Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase); EN 61000-3-3:2013 Electromagnetic compatibility (EMC)Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.

## Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “ $\triangle$ ”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

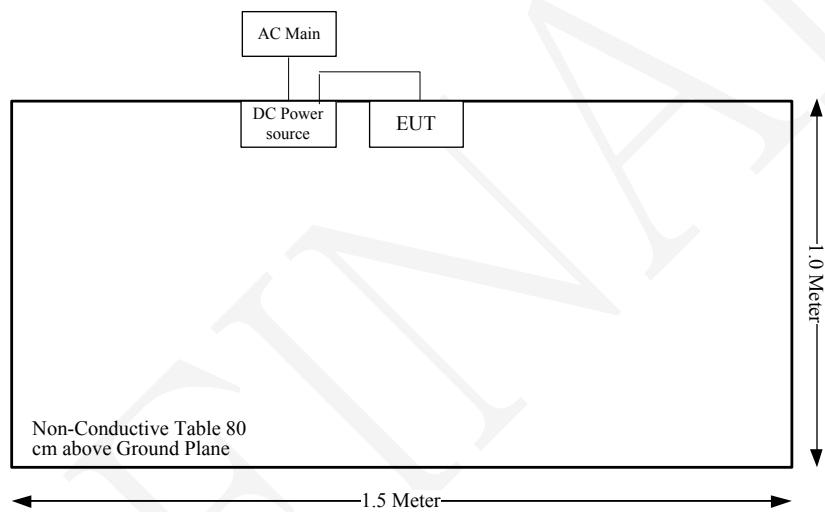
### Equipment Modifications

No modification was made to the EUT.

### EUT Exercise Software

N/A

### Block Diagram of Test Setup



**Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
N/A	DC power soure	NBS10B050200VEU	N/A

**Support Cable List and Details**

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
Power cable	No	No	0.4	EUT	DC power soure

## Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated emissions below 1GHz					
Sunol Sciences	Antenna	JB3	A060611-2	2017-08-25	2020-08-25
R&S	EMI Test Receiver	ESCI	100224	2019-09-12	2020-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2019-09-24	2020-09-24
Sonoma	Amplifier	310N	185914	2019-10-13	2020-10-13
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
ESD					
TESEQ	ESD Generator	NSG 438	1019	2019-09-18	2020-09-17
PFMF					
EM TEST	Current Transformer	MC2630	301873	N/A	N/A
EM TEST	Loop Antenna	MS100	303298	N/A	N/A
PAOFN	Transformer	AC250	250003	N/A	N/A
FLUKE	Clamp Meter	317	42270435WS	2020/7/1	2021/7/1
RS					
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
AR	Antenna	ATT700M12G	0349410	N/A	N/A
HP	Signal Generator	8665B	3438a00584	2019-09-12	2020-09-12
AR	Power Amplifier	500W1000C	0353561	N/A	N/A
AR	Power Amplifier	60S1G6	0348711	N/A	N/A
PASTERNACK	Dual Directional Coupler	PE2239-30	1711	2020-07-16	2021-07-16
Agilent	EPM Series Power Meter	E4419B	MY45103907	2020-05-09	2021-05-09
Agilent	E-Series Avg Power Sensor	E9301A	MY41497625	2020-05-09	2021-05-09
Agilent	E-Series Avg Power Sensor	E9301A	MY41497628	2020-05-09	2021-05-09

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

## Environmental Conditions

<b>Temperature:</b>	25.4~29.8 °C
<b>Relative Humidity:</b>	37~49%*
<b>ATM Pressure:</b>	100.4~100.8kPa
<b>Tester:</b>	Jackson Zhang, Rain Yi
<b>Test Date:</b>	2020.07.29~2020.07.30

Note:

\*The relative humidity of ESD test environment is 49%.

## SUMMARY OF TEST RESULTS

SN	Rule and Clause	Description of Test	Test Result
1	EN 55032 Clause A.3	Conducted emissions	Not applicable*
2	EN 55032 Clause A.2	Radiated emissions	Compliance
3	EN 55035 Clause 4.2.1	Electrostatic discharges IEC 61000-4-2	Compliance
4	EN 55035 Clause 4.2.2.2	Continuous radiated disturbances IEC 61000-4-3	Compliance
5	EN 55035 Clause 4.2.2.3	Continuous conducted disturbances IEC 61000-4-6	Not applicable*
6	EN 55035 Clause 4.2.3	Power frequency magnetic fields IEC 61000-4-8	Compliance
7	EN 55035 Clause 4.2.4	Electrical fast transients/burst IEC 61000-4-4	Not applicable*
8	EN 55035 Clause 4.2.5	Surges IEC 61000-4-5	Not applicable*
9	EN 55035 Clause 4.2.6	Voltage dips and short interruptions IEC 61000-4-11	Not applicable*
10	EN 61000-3-2	Harmonic current emissions	Not applicable*
11	EN 61000-3-3	Voltage fluctuations and flicker	Not applicable*

Note:

Not applicable\*: EUT was powered by 5Vdc.

## 2 - RADIATED EMISSIONS

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cisp}}$  of Table 1, then:

-compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

-non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{\text{lab}}$  is greater than  $U_{\text{cisp}}$  of Table 1, then:

-compliance is deemed to occur if no measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cisp}})$ , exceeds the disturbance limit;

-non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cisp}})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 10m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.55 dB for Horizontal, 4.57 dB for Vertical; 200M~1GHz: 4.66 dB for Horizontal, 4.56 dB for Vertical; measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB.

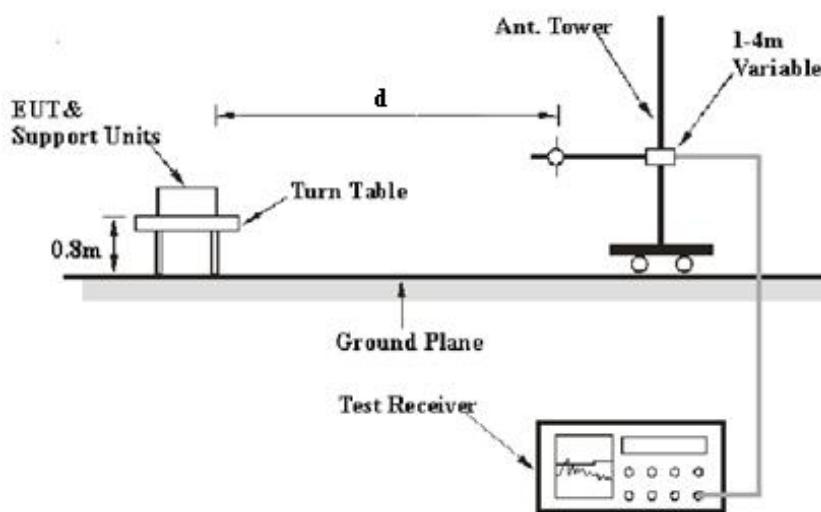
Table 1 – Values of  $U_{\text{cisp}}$

Measurement	$U_{\text{cisp}}$
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

### Test System Setup

Below 1GHz:



The radiated emission tests below 1GHz were performed in 10 meters, using the setup accordance with the CISPR 16-1-1:2010+A1:2010, CISPR 16-1-4:2010, CISPR 16-2-3:2010. The specification used was EN 55032 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The system was investigated from 30 MHz to 1 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP

### Test Procedure

During the radiated emissions, maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the maximized peak measured value complies with under the QP limit more than 6dB, then it is unnecessary to perform QP measurement.

### Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading + Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit for Class B. The equation for margin calculation is as follows:

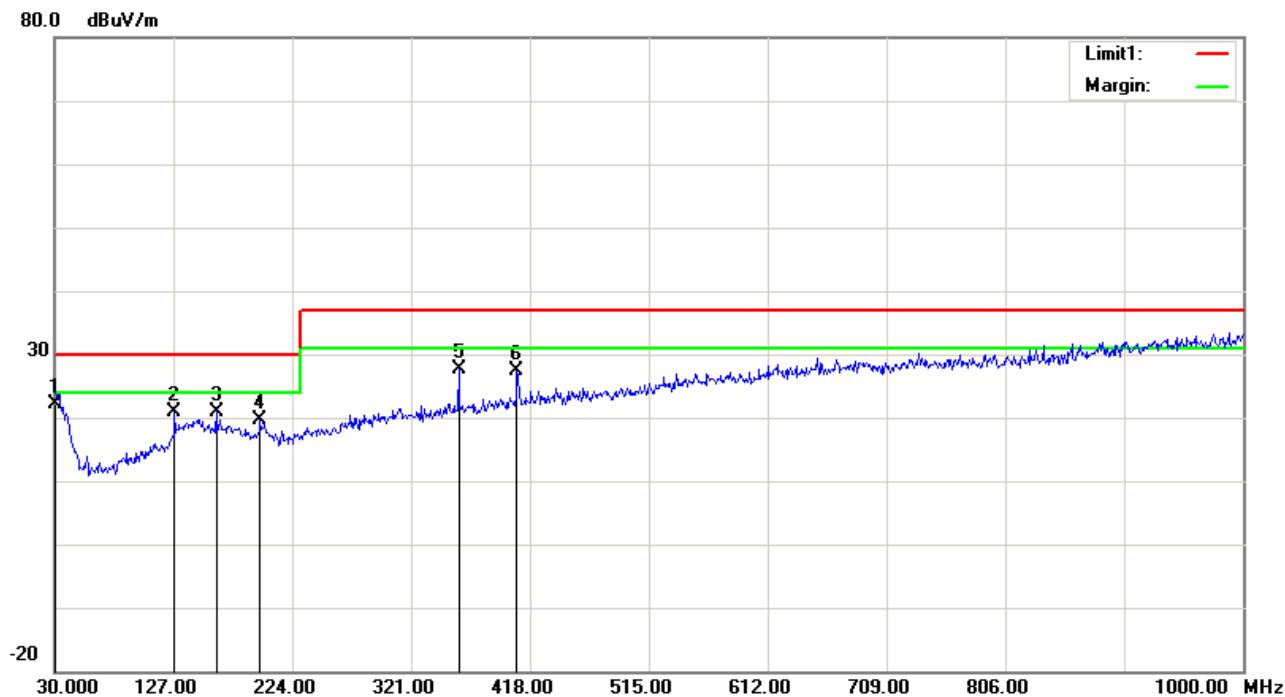
Margin = Limit – Result

## Test Data

Please refer to following table and plots:

**Condition:** EN 55032 Class B  
**EUT:** NEXTION HMI TOUCH SCREEN  
**Model:** NX3224T028  
**Test Mode:** Normal Work  
**Note:**

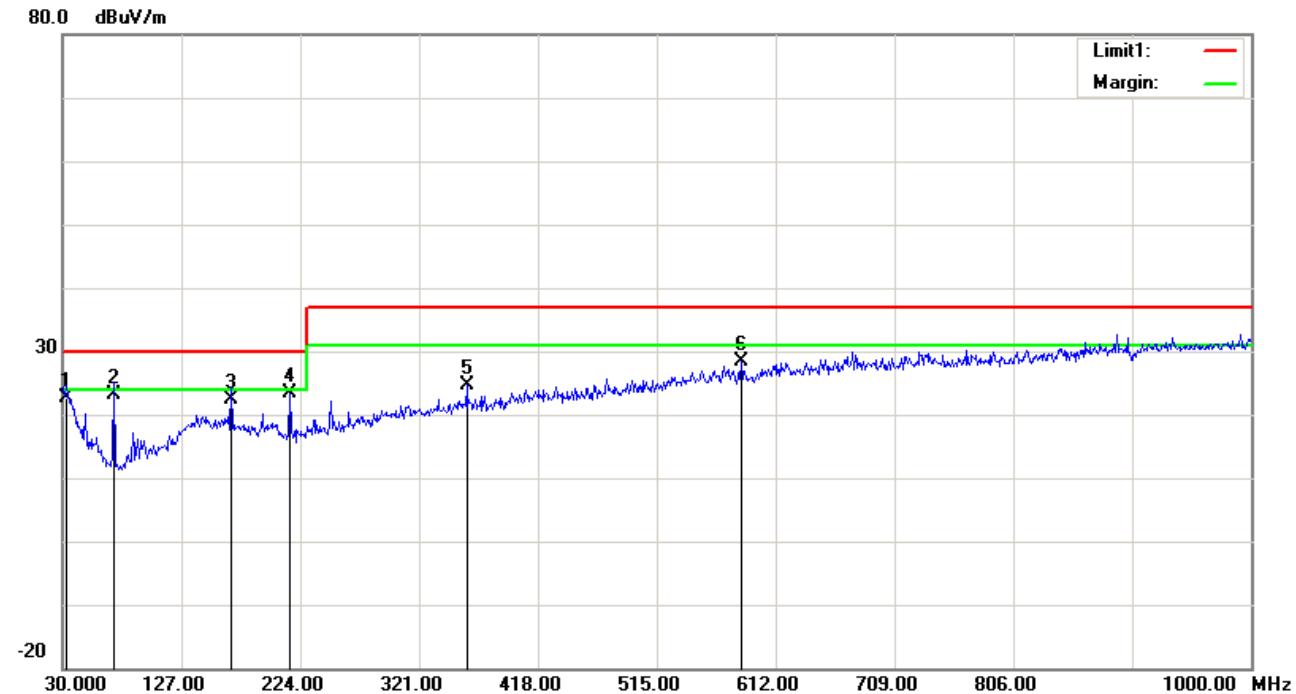
**Polarization:** Horizontal  
**Power:** DC 5V  
**Distance:** 10m



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1	30.0000	26.41	QP	-4.33	22.08	30.00	7.92
2	127.9700	31.49	peak	-10.52	20.97	30.00	9.03
3	161.9200	30.62	peak	-9.62	21.00	30.00	9.00
4	197.8100	29.37	peak	-9.73	19.64	30.00	10.36
5	359.8000	33.63	peak	-6.00	27.63	37.00	9.37
6	407.3300	32.40	peak	-4.97	27.43	37.00	9.57

**Condition:** EN 55032 Class B  
**EUT:** NEXTION HMI TOUCH SCREEN  
**Model:** NX3224T028  
**Test Mode:** Normal Work  
**Note:**

**Polarization:** Vertical  
**Power:** DC 5V  
**Distance:** 10m



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
1	32.9100	28.61	QP	-5.92	22.69	30.00	7.31
2	71.7100	39.52	QP	-16.45	23.07	30.00	6.93
3	167.7400	31.84	QP	-9.53	22.31	30.00	7.69
4	215.2700	34.64	peak	-11.26	23.38	30.00	6.62
5	359.8000	30.62	peak	-6.00	24.62	37.00	12.38
6	583.8700	29.88	peak	-1.48	28.40	37.00	8.60

### 3 - ELECTROSTATIC DISCHARGES IEC 61000-4-2

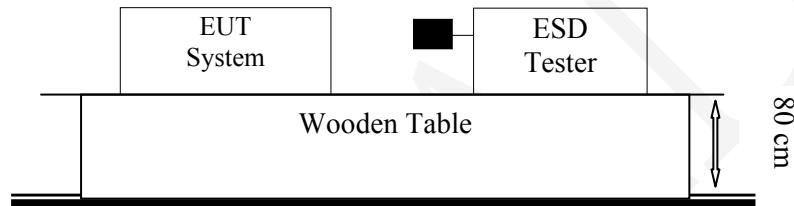
#### Measurement Uncertainty

$U_{\text{lab}}$  (measurement uncertainty of lab) and  $U_{\text{EN}}$  (measurement uncertainty of EN 61000-4-2) please refer to the following:

Parameter	$U_{\text{EN}}$	$U_{\text{lab}}$
Rise time $t_r$	$\leq 15\%$	15%
Peak current $I_p$	$\leq 7\%$	6.30%
Current at 30 ns	$\leq 7\%$	6.30%
Current at 60 ns	$\leq 7\%$	6.30%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

#### Test System Setup



Remark: ■ is the tip of the electrode

IEC 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by *0.5-millimeter* thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

#### Test Standard

EN 55035:2017 (IEC 61000-4-2:2008)  
 Test level 3 for Air Discharge at  $\pm 8 \text{ kV}$   
 Test level 2 for Contact Discharge at  $\pm 4 \text{ kV}$

**Test Level**

Level	Test Voltage Contact Discharge ( $\pm$ kV)	Test Voltage Air Discharge ( $\pm$ kV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

**Performance criteria: B****Test Procedure****Air Discharge:**

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

**Contact Discharge:**

All the procedure shall be same as Section 8.3.1 of IEC 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

**Indirect discharge for horizontal coupling plane:**

At least 50 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1 m from the EUT and with the discharge electrode touching the coupling plane.

**Indirect discharge for vertical coupling plane:**

At least 50 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m  $\times$  0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

## Test Data

*Please refer to following tables:*

**Test Mode:** Normal work

**Note:**

**Table 1: Electrostatic Discharge Immunity (Air Discharge)**

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV
Screen	A	A	A	A	A	A	/	/

**Table 2: Electrostatic Discharge Immunity (Direct Contact)**

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
/	/	/	/	/	/	/	/	/

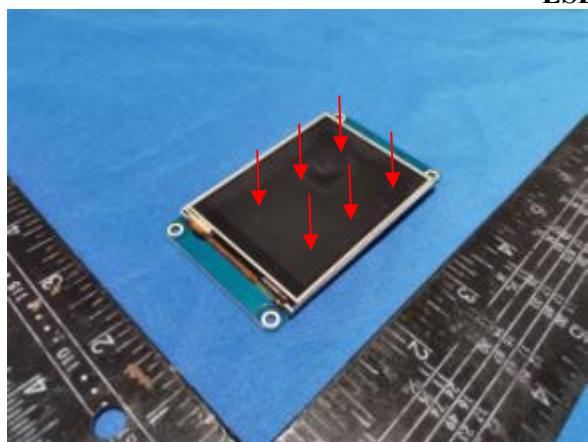
**Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)**

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

**Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)**

Test Points Location	Test Level							
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV
Front Side	A	A	A	A	/	/	/	/
Back Side	A	A	A	A	/	/	/	/
Left Side	A	A	A	A	/	/	/	/
Right Side	A	A	A	A	/	/	/	/

**ESD Location Photo**



Air Discharge:

Direct Contact:

## 4 - CONTINUOUS RADIATED DISTURBANCES IEC 61000-4-3

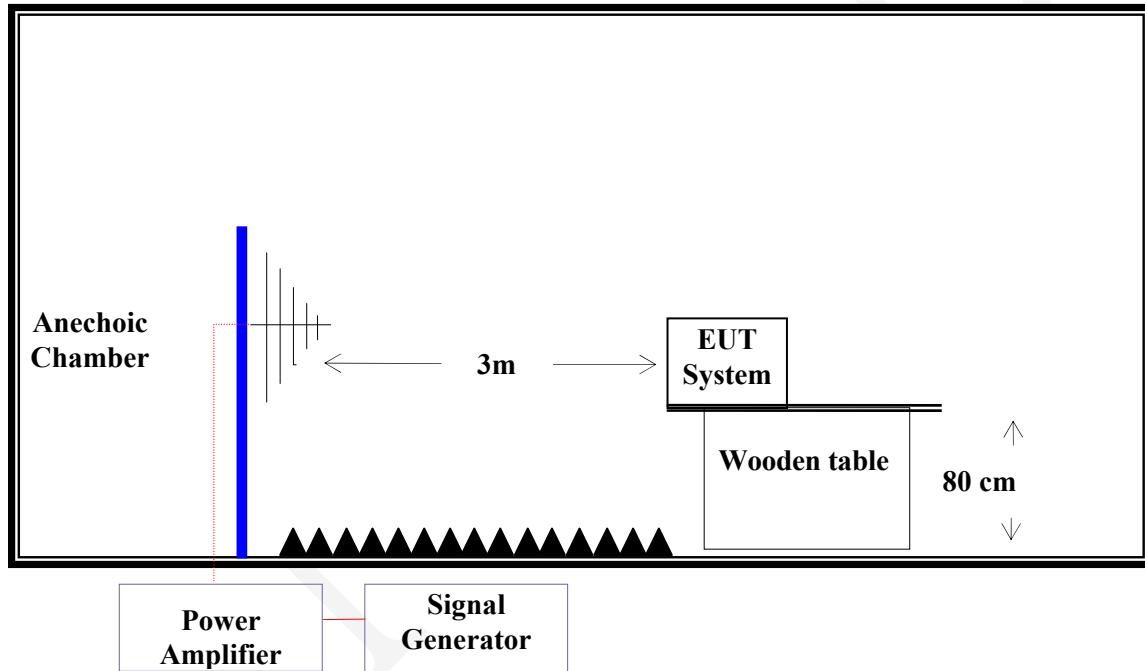
### Measurement Uncertainty

$U_{\text{lab}}$  (measurement uncertainty of lab) and  $U_{\text{EN}}$  (measurement uncertainty of EN 61000-4-3) please refer to the following:

Parameter	$U_{\text{EN}}$	$U_{\text{lab}}$
Calibration process	1.88 dB	1.88 dB
Level setting	2.19 dB	2.19 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

### Test System Setup



**Test Standard**

EN 55035:2017 (IEC 61000-4-3:2006 + A1:2007 + A2:2010)

**Test Level**

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

**Performance criteria: A****Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor the EUT.

## Test Data

*Please refer to following tables:*

**Test Mode:** On

**Note:**

<b>Condition of Test</b>		<b>Remarks</b>	
Field Strength		3 V/m (Test Level 2)	
RF Signal		1 kHz, 80% AM, sine wave	
Sweep Frequency Step		1%, logarithmic	
Dwell Time		1 Sec	

**Table 1:** Radiated RF-Electromagnetic Field Immunity

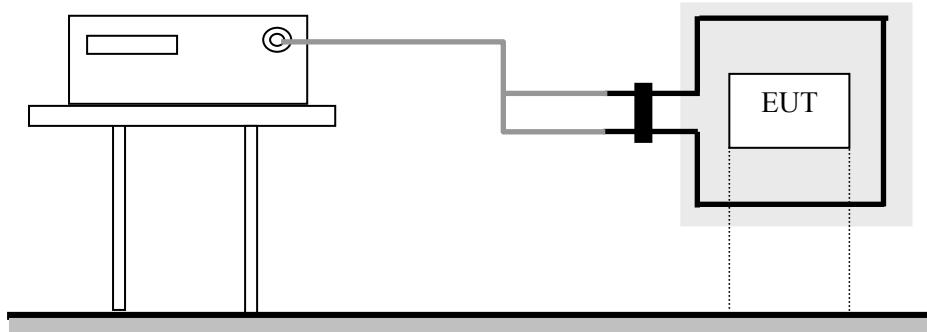
<b>Frequency Range (MHz)</b>	<b>Front Side</b>		<b>Rear Side</b>		<b>Left Side</b>		<b>Right Side</b>	
	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>
80-1000	A	A	A	A	A	A	A	A

**Table 2:** Radiated RF-Electromagnetic Field Immunity

<b>Spot Test (MHz)</b>	<b>Front Side</b>		<b>Rear Side</b>		<b>Left Side</b>		<b>Right Side</b>	
	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>	<b>VERT</b>	<b>HORI</b>
1800, 2600, 3500, 5000	A	A	A	A	A	A	A	A

## 6 - POWER FREQUENCY MAGNETIC FIELDS IEC 61000-4-8

### Test Setup



### Test Standard

EN 55035:2017 (IEC 61000-4-8:2009)

### Test Level

Level	Magnetic Field Strength A/m
1	1
2	3
3	10
4	30
5	100
X.	Special

### Performance criteria: A

### Test Procedure

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1 m\*1 m). The induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

**Test Data**

*Please refer to following tables:*

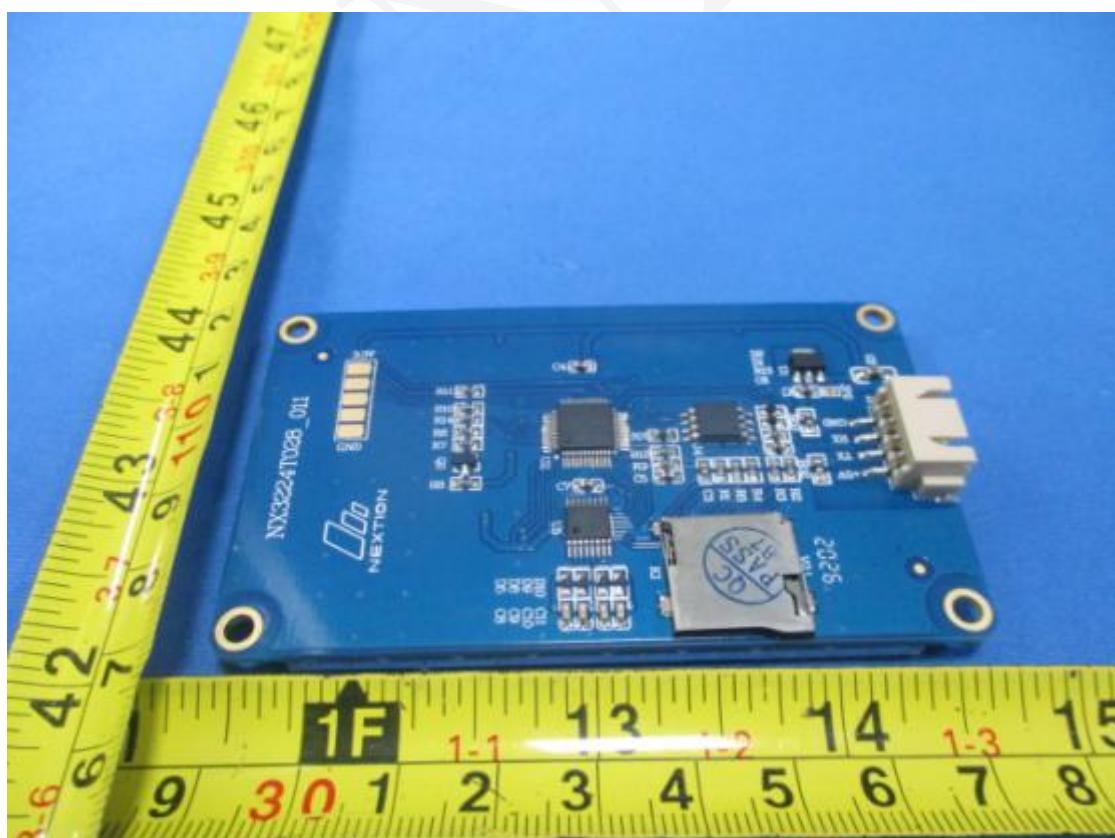
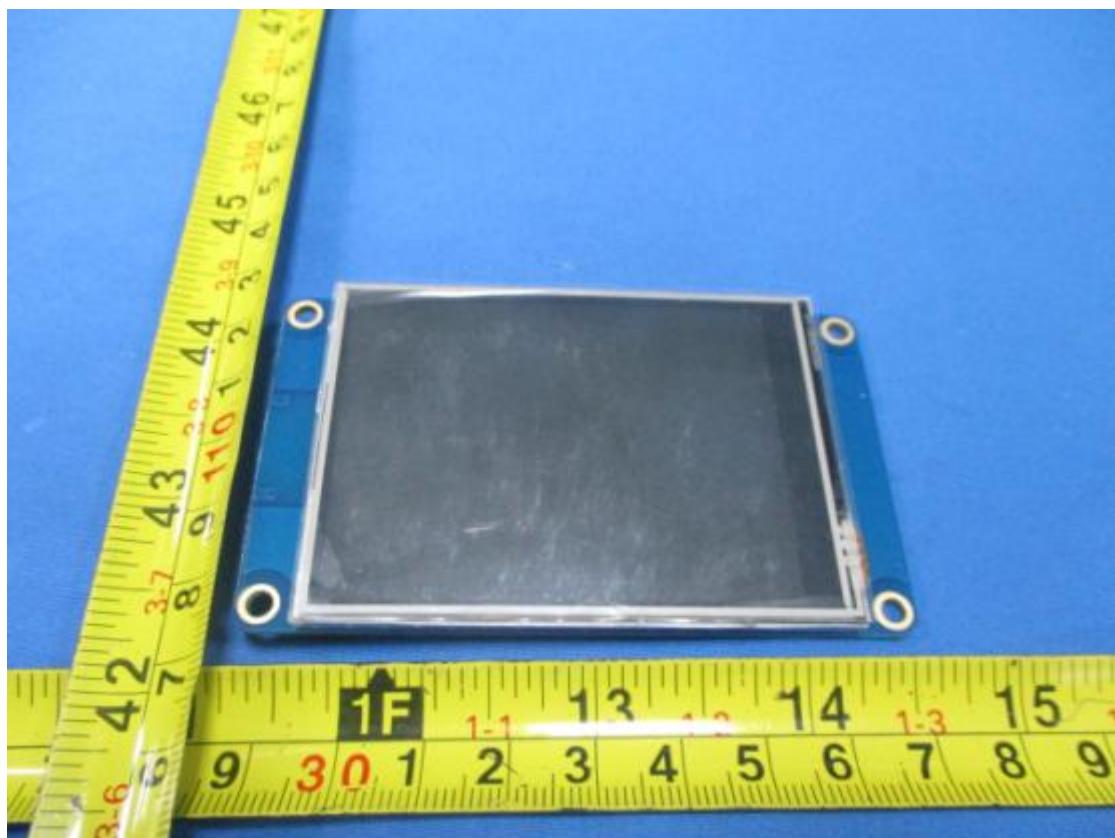
**Test Mode:** Normal work

**Note:**

Severity Level:       1       A/m( r. m. s)

Level	Magnetic Field Strength (A/m)	X (Horizontal)	Y (Vertical)	Z (Special)
1	1	A	A	A
2	3	/	/	/
3	10	/	/	/
4	30	/	/	/
5	100	/	/	/
X	Special	/	/	/

**EXHIBIT A – EUT PHOTOGRAPHS**



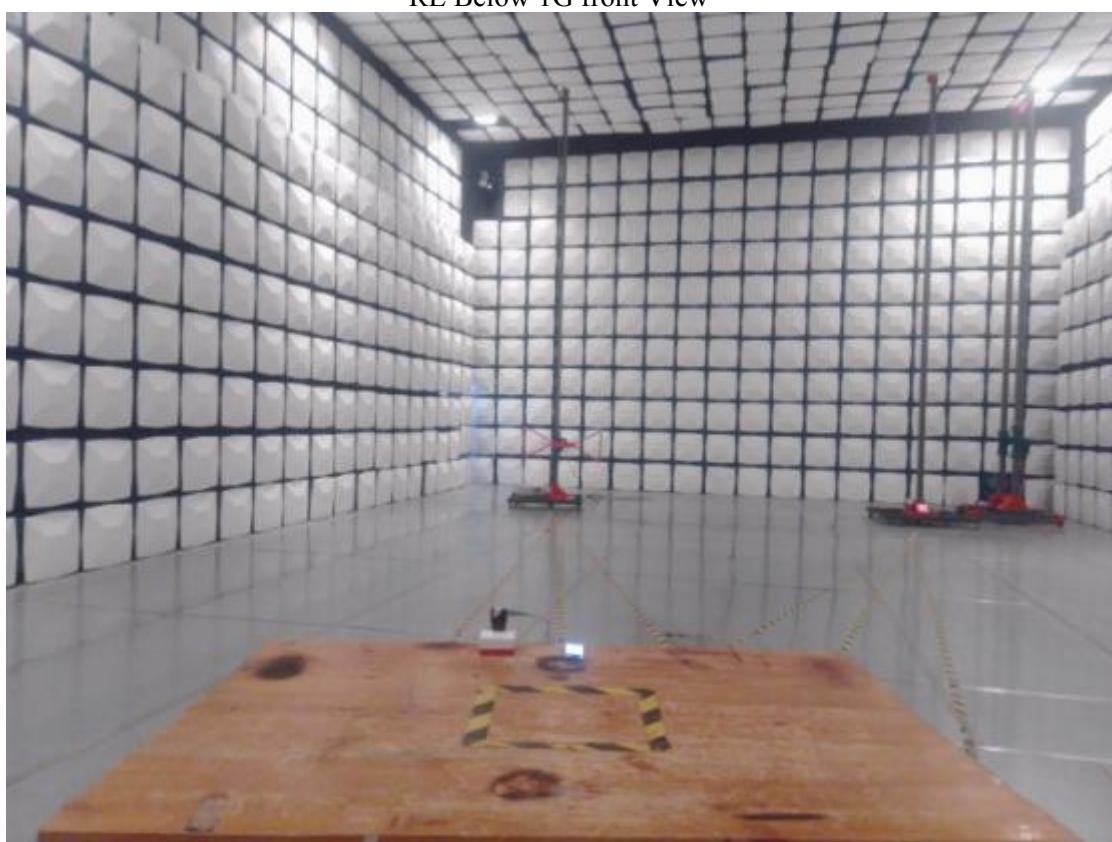
---

## **EXHIBIT B – TEST SETUP PHOTOGRAPHS**

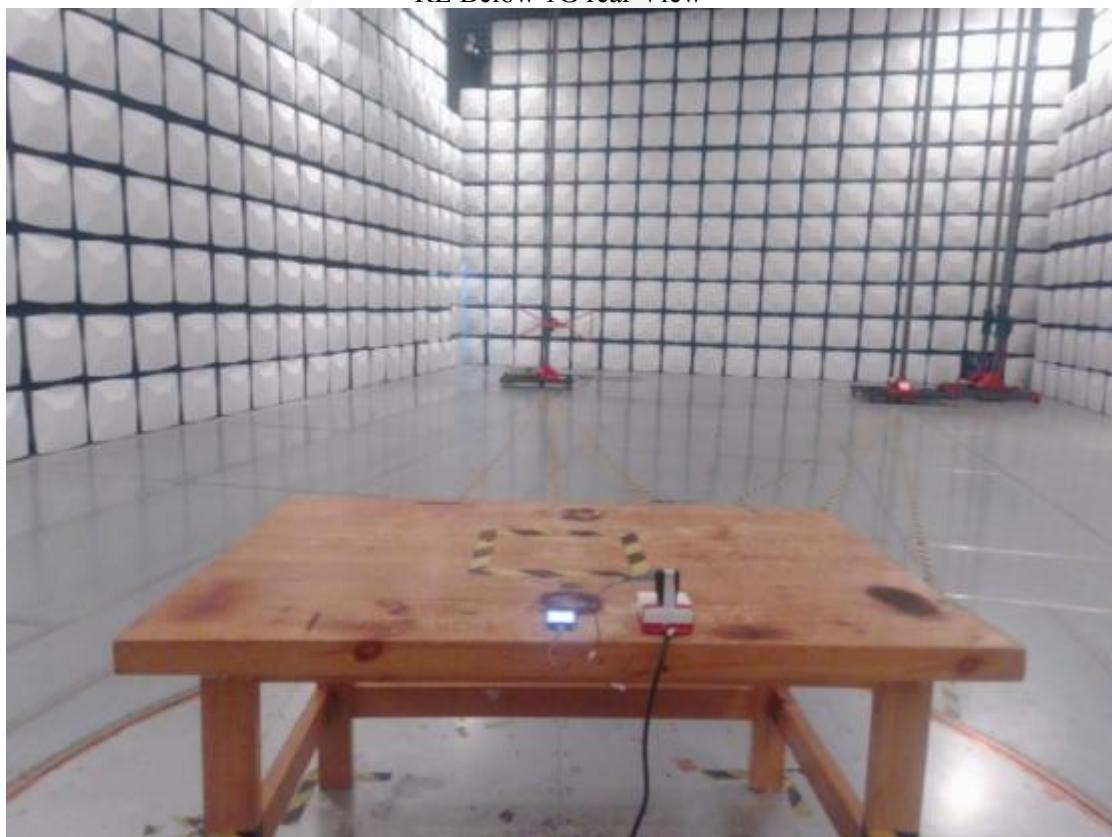
---

**RE**

RE Below 1G front View



RE Below 1G rear View



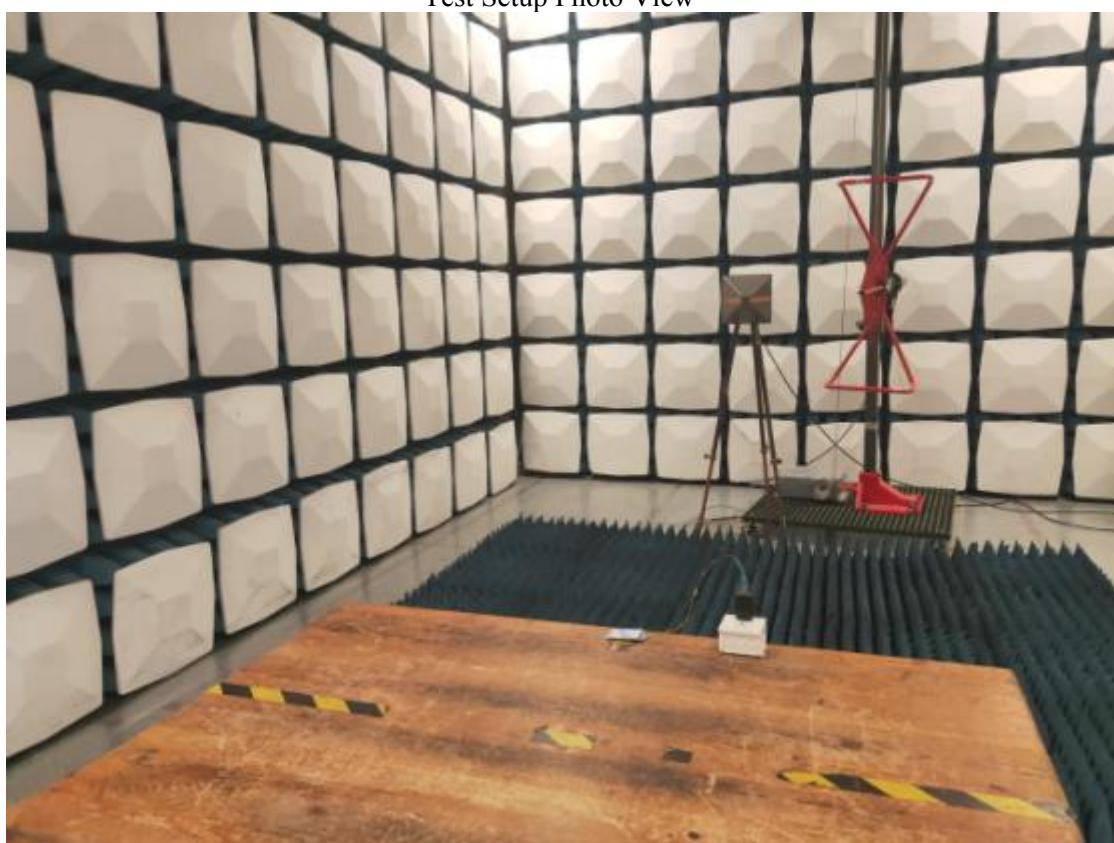
**ESD**

Test Setup Photo View



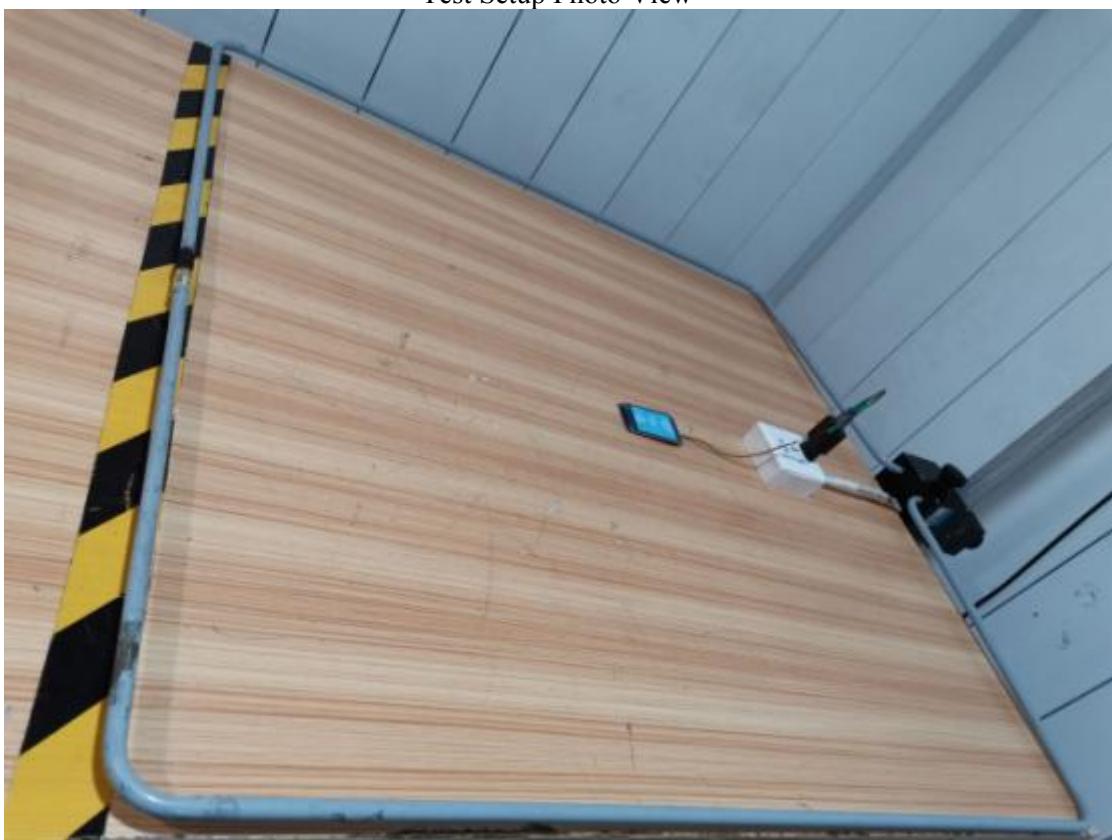
**RS**

Test Setup Photo View



**PFMF**

Test Setup Photo View



\*\*\*\*\*END OF REPORT\*\*\*\*\*