

EN 55032:2015+AC:2016-07

EN 55035:2017

EN 61000-3-2:2014

EN 61000-3-3:2013

## TEST REPORT

For

**Shanghai High-Flying Electronics Technology Co., Ltd**

Room 1002, Building 1, No.3000, Longdong Avenue, Pudong New Area, Shanghai, China

**Tested Model: Elfin-EW11**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Elfin-EW11
<b>Test Engineer:</b> Jett Zhao	<i>Jett Zhao</i>
<b>Report Number:</b> RSHD200303002-01A	
<b>Report Date:</b> 2020-03-24 Oscar Ye	
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FINAL

## GENERAL INFORMATION

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

Applicant:	Shanghai High-Flying Electronics Technology Co., Ltd
Test Model:	Elfin-EW11
Product:	Elfin-EW11
Highest Operation Frequency:	2472 MHz
Rate Voltage:	DC 5~18V

*\*All measurement and test data in this report was gathered from production sample serial number: 20200303002. (Assigned by BACL, Kunshan). The EUT supplied by the applicant was received on 2020-03-03.*

### Objective

This test report is prepared on behalf of *Shanghai High-Flying Electronics Technology Co., Ltd* in accordance with

EN 55032: Electromagnetic compatibility of multimedia equipment - Emission requirements.

EN 55035: Electromagnetic compatibility of multimedia equipment - Immunity requirements.

EN61000-3-2: Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)

EN 61000-3-3: 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 of the manufacturer is to determine compliance with EN 55032, EN 55035, EN61000-3-2, EN61000-3-3.

### Related Submittal(s)/Grant(s)

No related submittal(s).

## Test Methodology

CISPR 16-1-1:2015, Specification for radio disturbance and immunity measuring apparatus and methods  
Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus.

CISPR 16-1-4:2010+A2:2017, Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-4: Radio disturbance and immunity measuring apparatus -Antennas and test sites for radiated disturbance measurements

CISPR 16-2-1:2014, Specification for radio disturbance and immunity measuring apparatus and methods -  
Part 2-1: Methods of measurement of disturbance and immunity - Conducted disturbance measurements.

CISPR 16-2-3:2016, Specification for radio disturbance and immunity measuring apparatus and methods-  
Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements.

CISPR 16-4-2:2011+A1-2014, Specification for radio disturbance and immunity measuring apparatus and methods-Part 4-2: Uncertainties, statistics and limit modeling-Measurement instrumentation uncertainty.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan).

## Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

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

*Test mode: WiFi transmission*

### Equipment Software

“sscom 5.13.1”.

### Equipment Modifications

No modifications were made to the EUT.

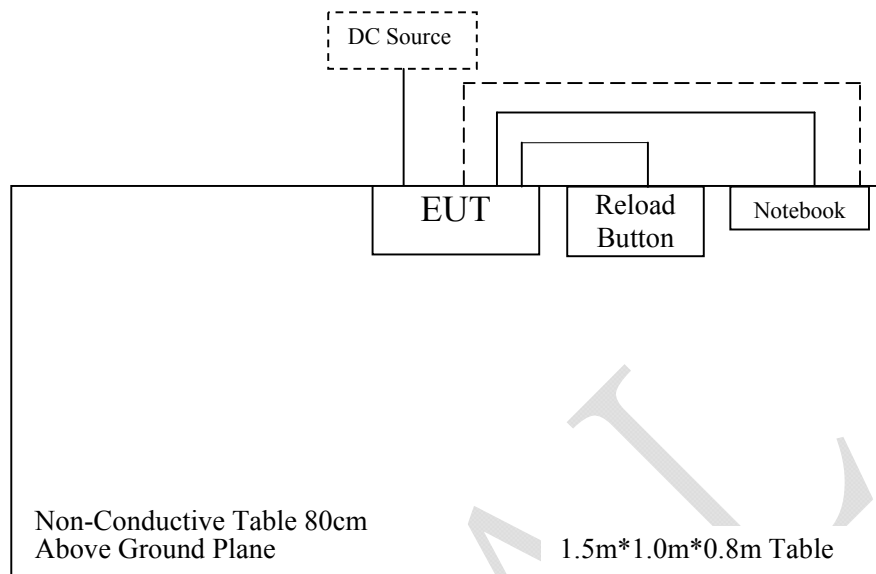
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Hp	Notebook	4441s	2CE3130VWY
BEST	DC Source	PS-1502D+	N/A

### External I/O Cable

Cable Description	Length (m)	From/Port	To
Power Cable	1.5	EUT	DC Source
USB Cable	2.6	EUT	Notebook

## Block Diagram of Radiated Test Setup



**SUMMARY OF TEST RESULTS****EN 55032**

RULE	DESCRIPTION	RESULTS
§ 5	Requirements ,Refer to Annex A A.3 Requirements for conducted emissions	Not Applicable <sup>1</sup>
§ 5	Requirements ,Refer to Annex A A.2 Requirements for radiated emissions	Compliant

**EN 55035**

RULE	DESCRIPTION	RESULTS
§4.2.1	Electrostatic discharges IEC 61000-4-2	Not Applicable <sup>1</sup>
§4.2.4	Electrical fast transients/burst IEC 61000-4-4	Not Applicable <sup>1</sup>
§4.2.2.2	Continuous RF electromagnetic field disturbances IEC 61000-4-3	Compliant
§4.2.2.3	Continuous induced RF disturbances IEC 61000-4-6	Not Applicable <sup>1</sup>
§4.2.3	Power frequency magnetic field IEC 61000-4-8	Compliant
§4.2.5	Surges IEC 61000-4-5	Not Applicable <sup>1</sup>
§4.2.6	Voltage dips and interruptions IEC 61000-4-11	Not Applicable <sup>1</sup>

**EN 61000-3-2**

RULE	DESCRIPTION	RESULTS
§6, §7	Harmonic Current Emissions	Not Applicable <sup>1</sup>

**EN 61000-3-3**

RULE	DESCRIPTION	RESULTS
§5, §6	Voltage Fluctuations and Flicker	Not Applicable <sup>1</sup>

**Note:** Not Applicable<sup>1</sup>: The EUT is powered byDC Source.



## EN 55032 §5 Requirements ,Refer to Annex A A.2 Requirements for Radiated Emissions

### Measurement Uncertainty

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

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  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  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- Non - compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

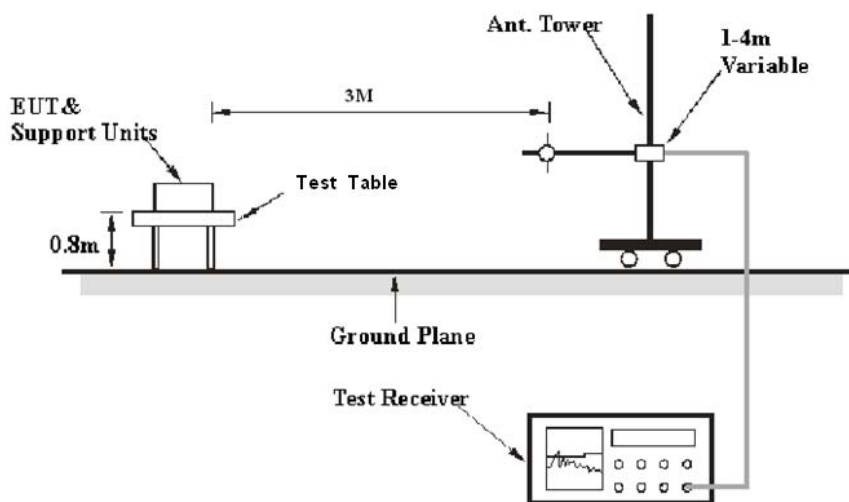
Table 1 - Values of  $U_{cispr}$

Item		Measurement Uncertainty	$U_{cispr}$
Radiated Emission	30MHz~1GHz	5.91dB	6.3 dB
	1GHz~6GHz	4.68dB	5.2 dB

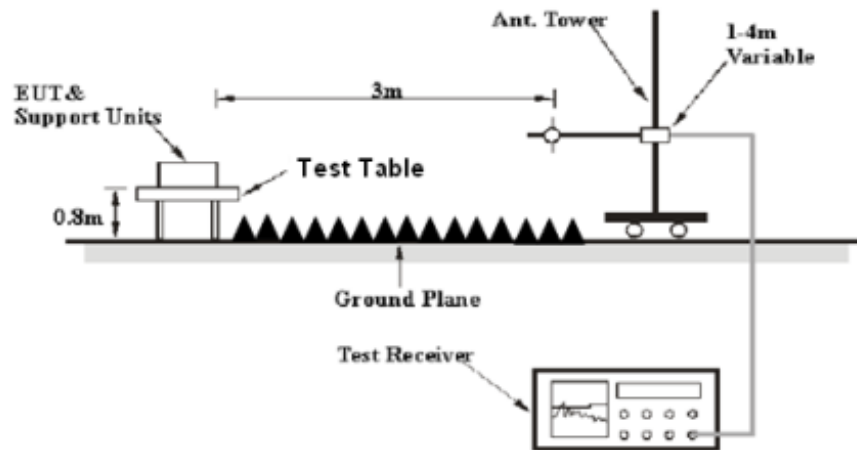
Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

### Test System Setup

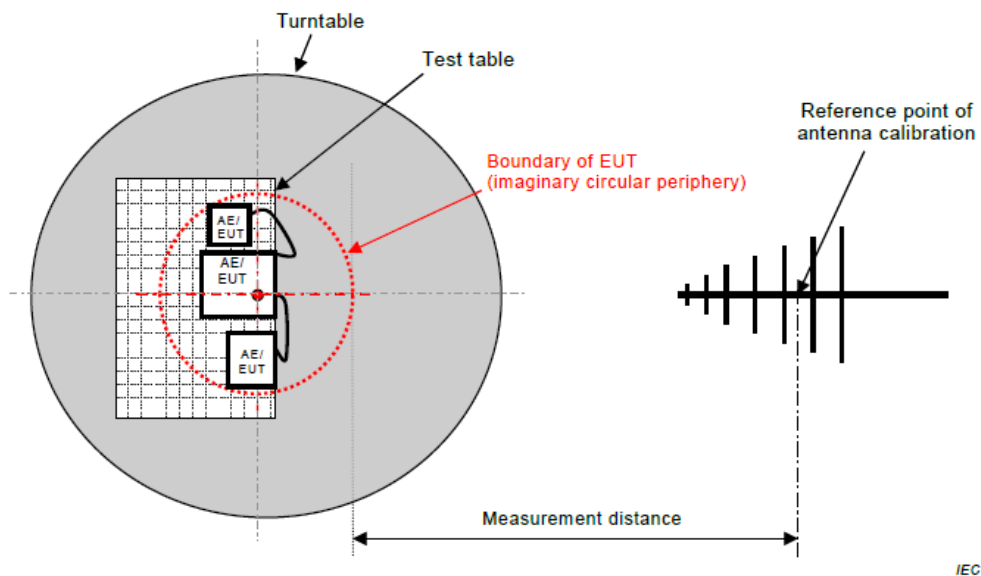
Below 1GHz:



Above 1GHz:



Radiated Top View:



**Figure C.1 – Measurement distance**

The radiated emission tests below 1GHz was performed in the 3 meters chamber test site, using the setup accordance with the CISPR 16-1-1:2015, CISPR16-1-4:2010+A2-2017, CISPR 16-2-3:2016. 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 6 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector Type
30MHz - 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1MHz	3 MHz	1 MHz	AVG

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sonoma Instrument	Amplifier	310N	185700	2019-08-14	2020-08-13
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2019-11-30	2020-11-29
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2019-12-26	2022-12-25
Champrotek	Chamber	Chamber A	T-KSEMC049	-	-
Champrotek	Chamber	Chamber B	T-KSEMC080	-	-
R&S	Auto test Software	EMC32	100361	-	-
ETS	Horn Antenna	3115	6229	2019-12-12	2022-12-11
Rohde & Schwarz	EMI Receiver	ESU40	100207	2019-05-30	2020-05-29
A.H.Systems, inc	Amplifier	2641-1	491	2020-03-01	2021-02-28
MICRO-COAX	Coaxial Cable	Cable-8	008	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2019-08-15	2020-08-14
MICRO-COAX	Coaxial Cable	Cable-4	004	2019-12-12	2020-12-11
MICRO-COAX	Coaxial Cable	Cable-5	005	2019-12-12	2020-12-11

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

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter reading. The basic equation is as follows:

$$\text{Corr. Amp.} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amp}$$

## Test Data

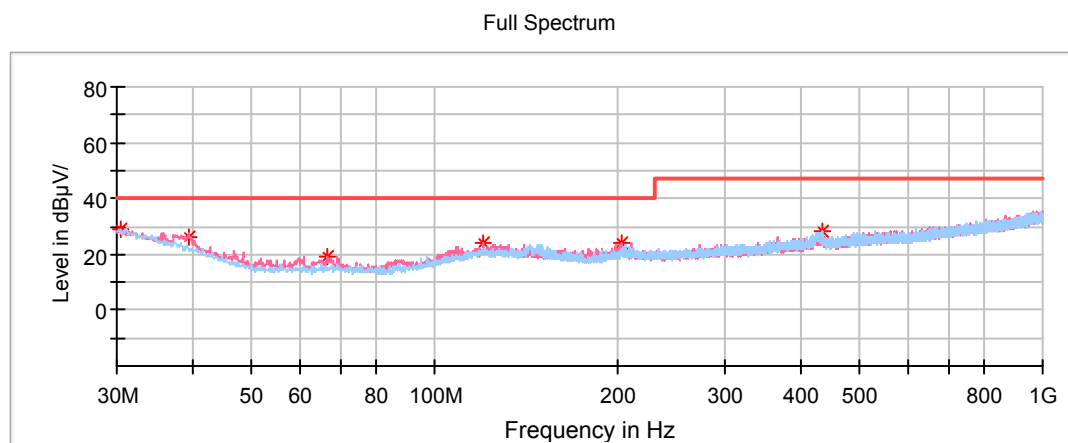
### Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	53 %
ATM Pressure:	101.5 kPa

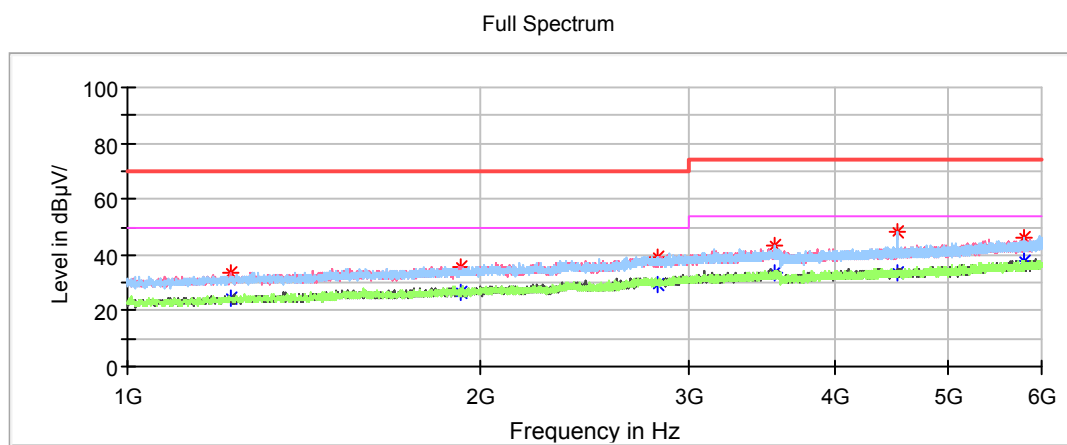
The testing was performed by Jett Zhao on 2020-03-16.

Test mode: WiFi transmission

1) Below 1GHz:



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.363750	29.23	40.00	10.77	100.0	H	357.0	-4.2
39.457500	26.41	40.00	13.59	100.0	V	189.0	-10.4
66.617500	19.15	40.00	20.85	200.0	V	89.0	-17.5
120.452500	23.72	40.00	16.28	100.0	V	221.0	-11.2
202.296250	24.39	40.00	15.61	100.0	V	353.0	-12.3
432.792500	28.29	47.00	18.71	200.0	H	278.0	-7.7

**Above 1 GHz:**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1222.500000	33.49	---	70.00	36.51	200.0	V	324.0	-11.4
1222.500000	---	24.35	50.00	25.65	200.0	V	324.0	-11.4
1923.500000	35.50	---	70.00	34.50	100.0	V	126.0	-8.5
1923.500000	---	26.55	50.00	23.45	100.0	V	126.0	-8.5
2822.500000	39.30	---	70.00	30.70	200.0	V	284.0	-5.3
2822.500000	---	29.45	50.00	20.55	200.0	V	284.0	-5.3
3559.000000	43.32	---	74.00	30.68	200.0	H	55.0	-3.3
3559.000000	---	33.36	54.00	20.64	200.0	H	55.0	-3.3
4519.500000	---	33.53	54.00	20.47	200.0	H	55.0	-1.0
4519.500000	48.04	---	74.00	25.96	200.0	H	55.0	-1.0
5805.500000	---	37.90	54.00	16.10	100.0	H	97.0	1.9
5805.500000	45.96	---	74.00	28.04	100.0	H	97.0	1.9

**EN 55035 §4.2.1 ELECTROSTATIC DISCHARGE (IEC 61000-4-2)****Measurement Uncertainty**

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

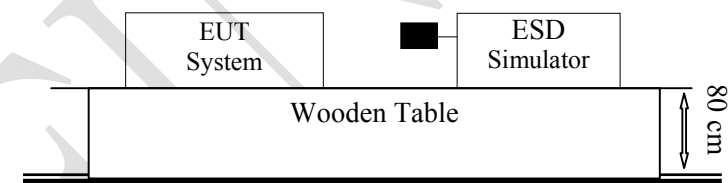
Parameter	$U_{EN}$	$U_{lab}$
Rise time $t_r$	$\leq 15\%$	15%
Peak current $I_p$	$\leq 7\%$	6.30%
Current at 30 ns	$\leq 7\%$	6.30%
Current at 60 ns	$\leq 7\%$	6.30%

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

**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM Test	ESD Simulator	Dito	V0824103870	2019-11-14	2020-11-13

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

**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  $\pm 8$  kV

Test level 2 for Contact Discharge at  $\pm 4$  kV

**Test Level**

Level	Test Voltage Contact Discharge (±kV)	Test Voltage Air Discharge (±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 \* 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****Environmental Conditions**

Temperature:	23.1 °C
Relative Humidity:	53 %
ATM Pressure:	101.7 kPa

The testing was performed by Jett Zhao on 2020-03-23.



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

EN 61000-4-2 Test Points Location	Test Levels								
	-2 kV	+2 kV	-4 kV	+4 kV	-8 kV	+8 kV	-15 kV	+15 kV	X
1~8	A	A	A	A	A	A	/	/	/

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

EN 61000-4-2 Test Points Location	Test Levels								
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	X
9	A	A	A	A	/	/	/	/	/

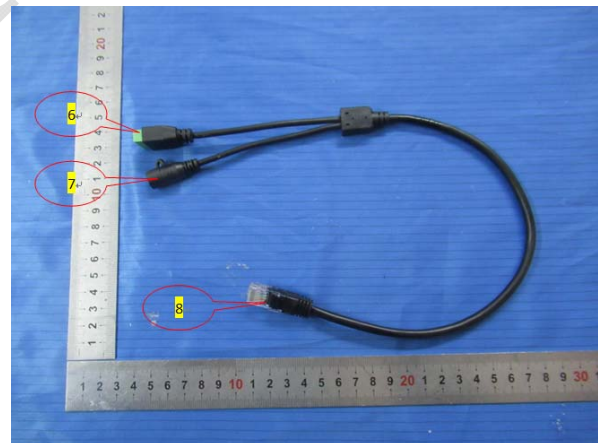
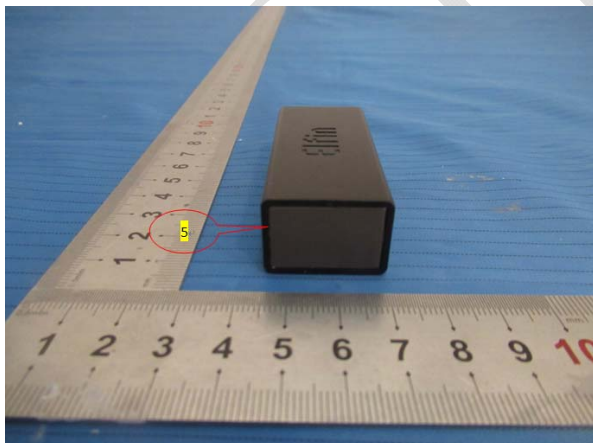
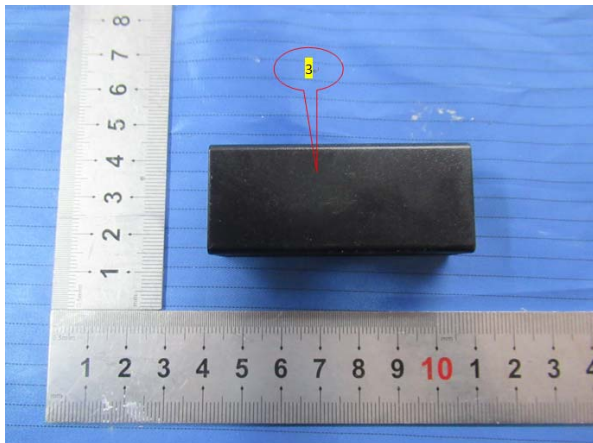
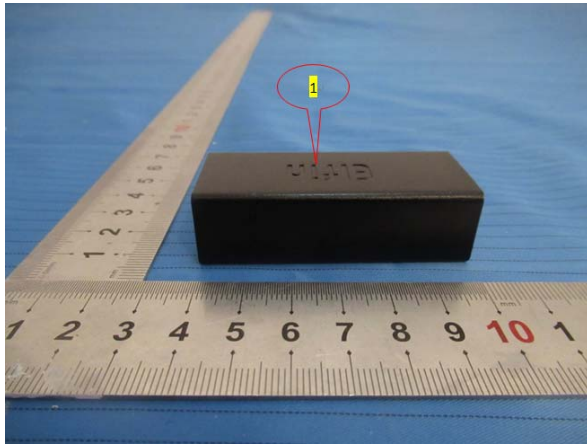
**Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)**

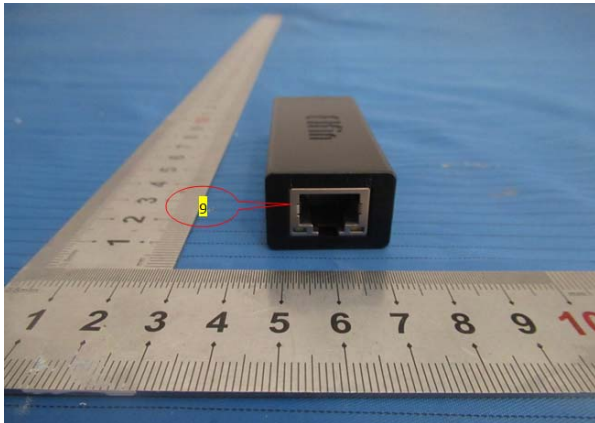
EN 61000-4-2 Test Points Location	Test Levels								
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	X
Front Side	A	A	A	A	/	/	/	/	/
Back Side	A	A	A	A	/	/	/	/	/
Left Side	A	A	A	A	/	/	/	/	/
Right Side	A	A	A	A	/	/	/	/	/

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

EN 61000-4-2 Test Points Location	Test Levels								
	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	X
Front Side	A	A	A	A	/	/	/	/	/
Back Side	A	A	A	A	/	/	/	/	/
Left Side	A	A	A	A	/	/	/	/	/
Right Side	A	A	A	A	/	/	/	/	/

Test point as follows:





Note: “A” stands for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function, no loss of stored data or user programmable functions.

**EN 55035 §4.2.2.2 CONTINUOUS RF ELECTROMAGNETIC FIELD  
DISTURBANCES (IEC 61000-4-3)****Measurement Uncertainty**

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

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

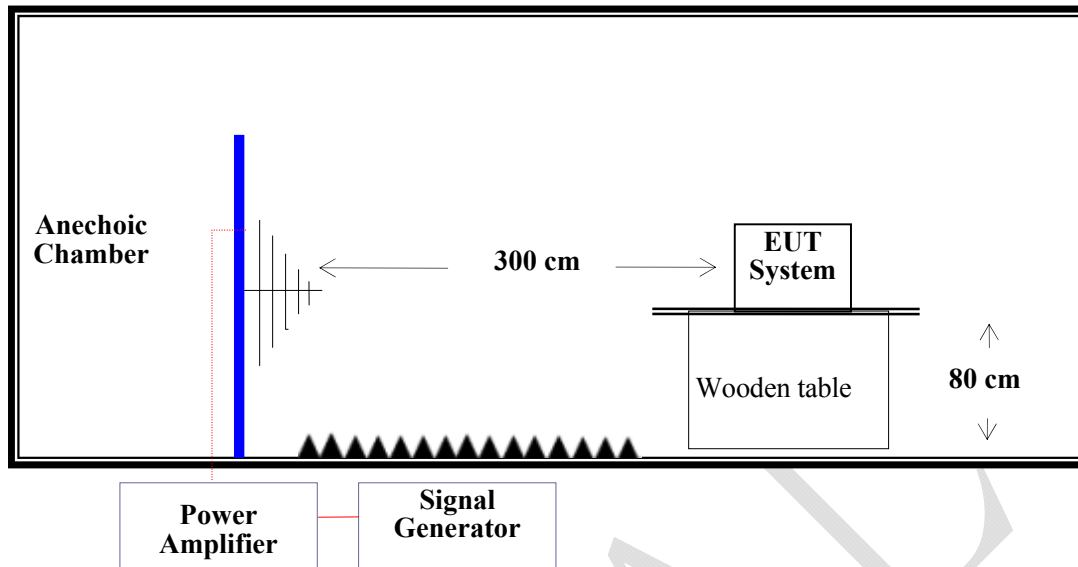
Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

**Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Signal Generator	E4428C	MY49070179	2019-07-21	2020-07-20
Amplifier Research	Power Amplifier	200W1000M3A	18062	NCR	NCR
A&R	Power Amplifier	60S1G6	0349442	NCR	NCR
A&R	Bi-log Antenna	ATL80M1G	0350122	NCR	NCR
A&R	Horn Antenna	ATT700M12G	0350307	NCR	NCR

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

## Test System Setup



## Test Standard

EN 55035:2017 (IEC 61000-4-3:2006 + A1:2007, A2:2010)  
Test level 2 at 3V/m

## 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 notebook.

All the scanning conditions are as follows:

Condition of Test	Remarks
-----	-----
1. Field Strength	3 V/m (Test Level 2)
2. Radiated Signal	AM 80% , 1kHz sin wave
3. Scanning Frequency	80 - 1000 MHz ,
4. Dwell Time	3 Sec.
5. Test step	1%
6. Field Strength	3 V/m (Test Level 2)
7. Radiated Signal	AM 80%, 1kHz sin wave
8. Scanning Frequency	1800MHz, 2600MHz, 3500MHz, 5000MHz
9. Dwell Time	3 Sec.
10. Test step	1%

**Test Data****Environmental Conditions**

<b>Temperature:</b>	22.5 °C
<b>Relative Humidity:</b>	52 %
<b>ATM Pressure:</b>	101.3 kPa

The testing was performed by Jett Zhao on 2020-03-20.

Test mode: WiFi transmission

Frequency Range (MHz)	Front Side (3 V/m)		Rear Side (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A

Frequency Range (MHz)	Front Side (3 V/m)		Rear Side (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
1800	A	A	A	A	A	A	A	A
2600	A	A	A	A	A	A	A	A
3500	A	A	A	A	A	A	A	A
5000	A	A	A	A	A	A	A	A

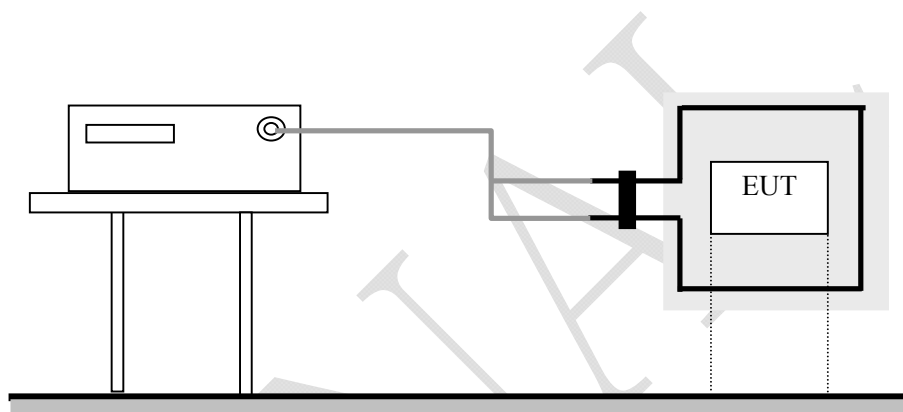
Noe:

1. “WiFi link” is monitor notebook to connect EUT and monitor the connection state.
2. “A” stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function or user programmable functions.

**EN 55035 §4.2.3 POWER FREQUENCY MAGNETIC FIELD (IEC 61000-4-8)****Test Equipment**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EM TEST	Loop Antenna	MS100	P1334123835	2019-01-11	2022-01-10
EM TEST	Current Transformer	MC2630	P1303109259	2020-02-14	2021-02-13
EM TEST	AC Power Source	ACS 500N	P1251107475	2019-11-21	2020-11-20

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

**Test Setup****Test Standard**

EN 55035:2017 (IEC 61000-4-8:2009)  
Test level 2 at 1 A/m

**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

### Environmental Conditions

Temperature:	22.5 °C
Relative Humidity:	52 %
ATM Pressure:	101.3 kPa

The testing was performed by Jett Zhao on 2020-03-20.

Test mode: WiFi transmission

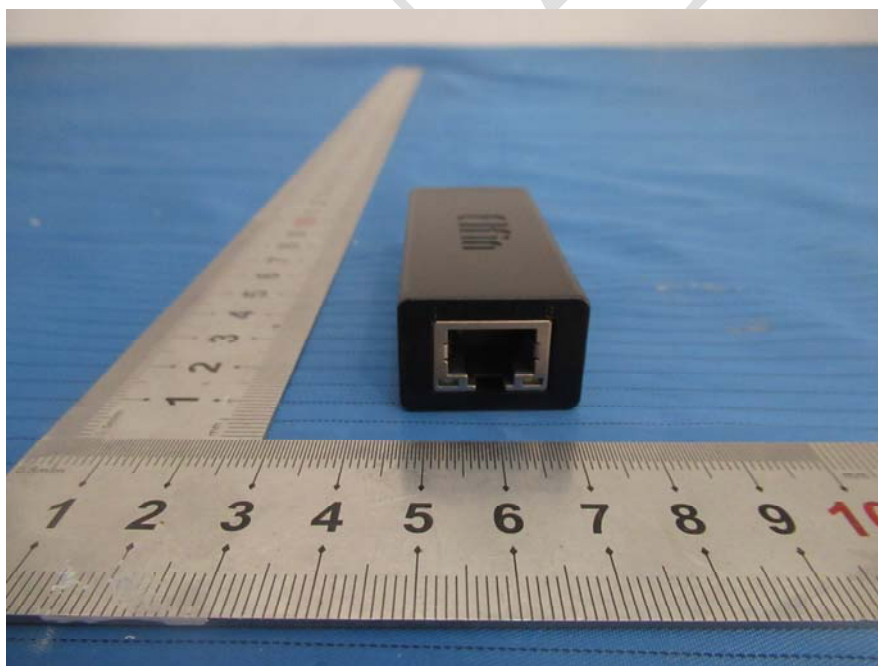
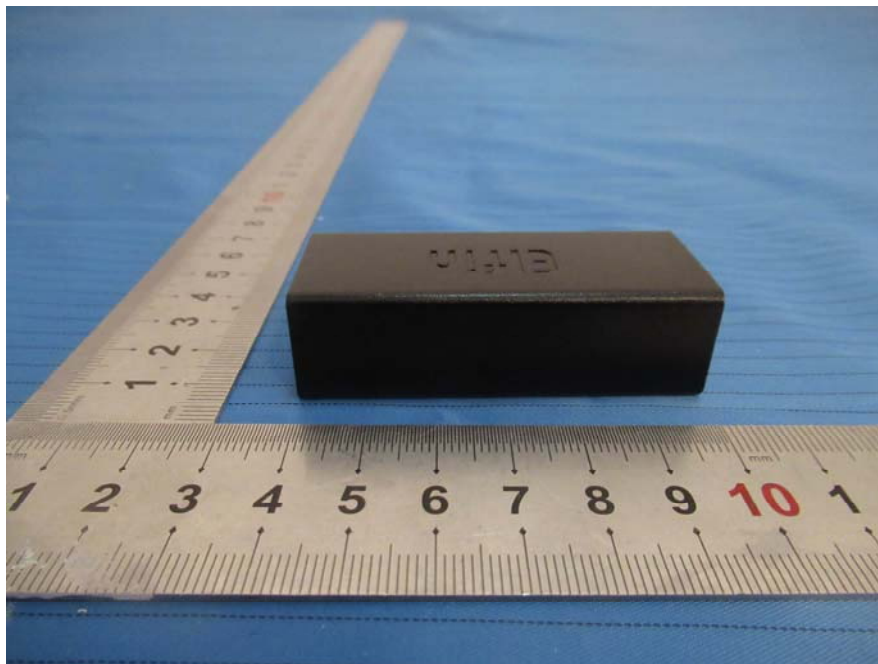
Level	Magnetic Field Strength A/M	X (Horizontal)	Y (Vertical)	Z (Special)
1	1	A	A	A
2	3	/	/	/
3	10	/	/	/
4	30	/	/	/
5	100	/	/	/
X	Special	/	/	/

Note: "A" stand for, during test, operate as intended no loss of function, no degradation of performance, no unintentional transmissions and after test, no degradation of performance, no loss of function or user programmable functions

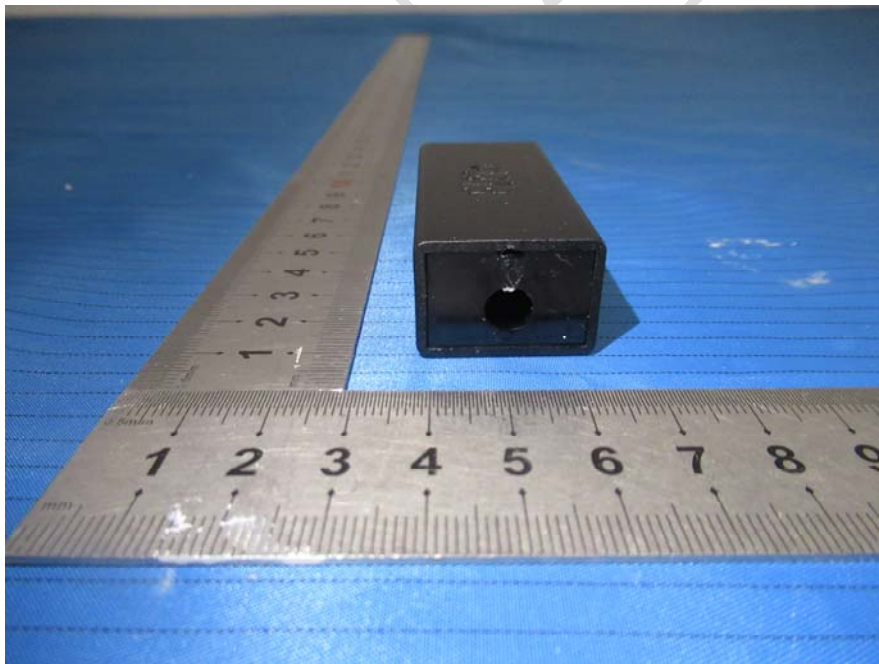
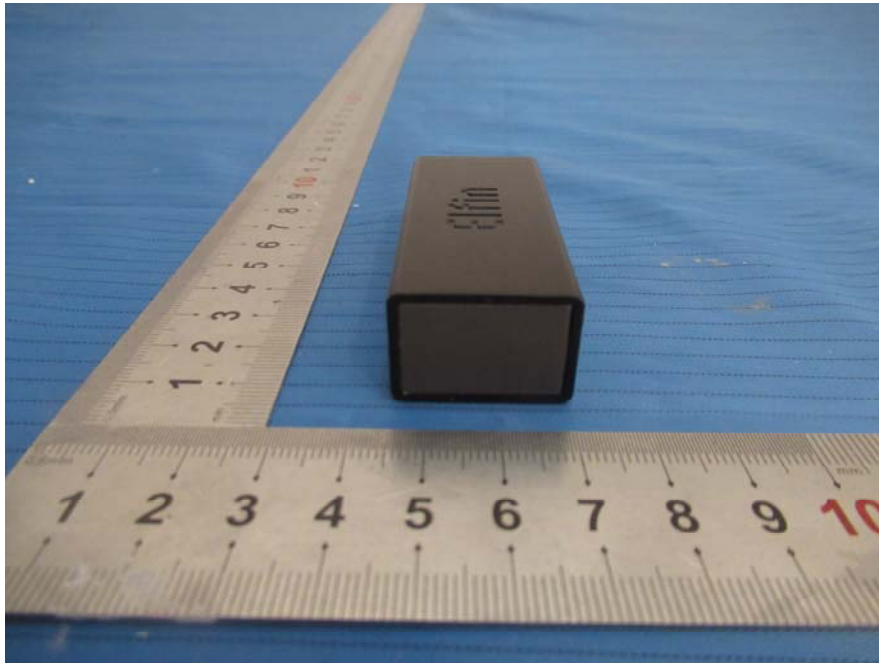
## **EXHIBIT A - EUT PHOTOGRAPHS**



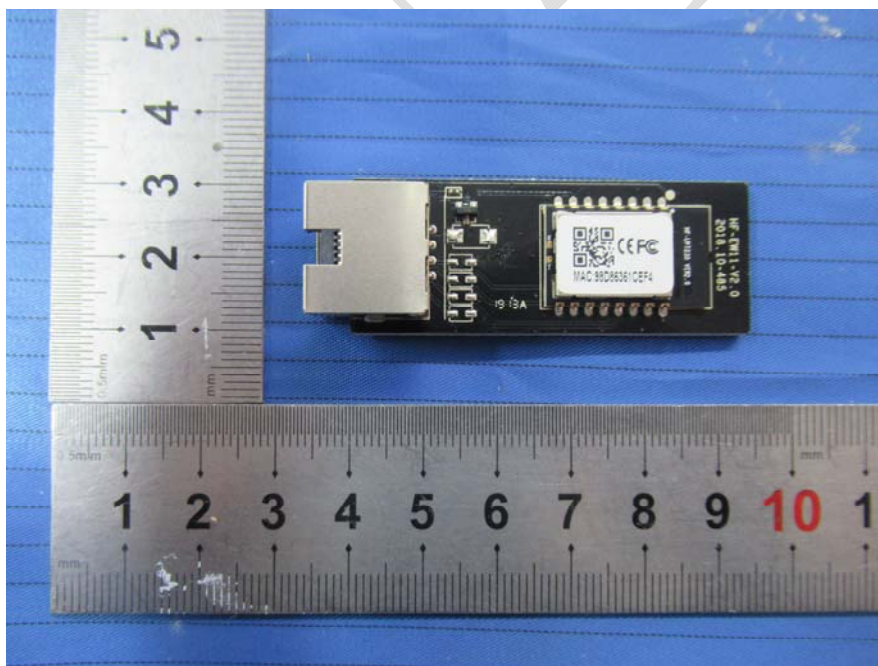
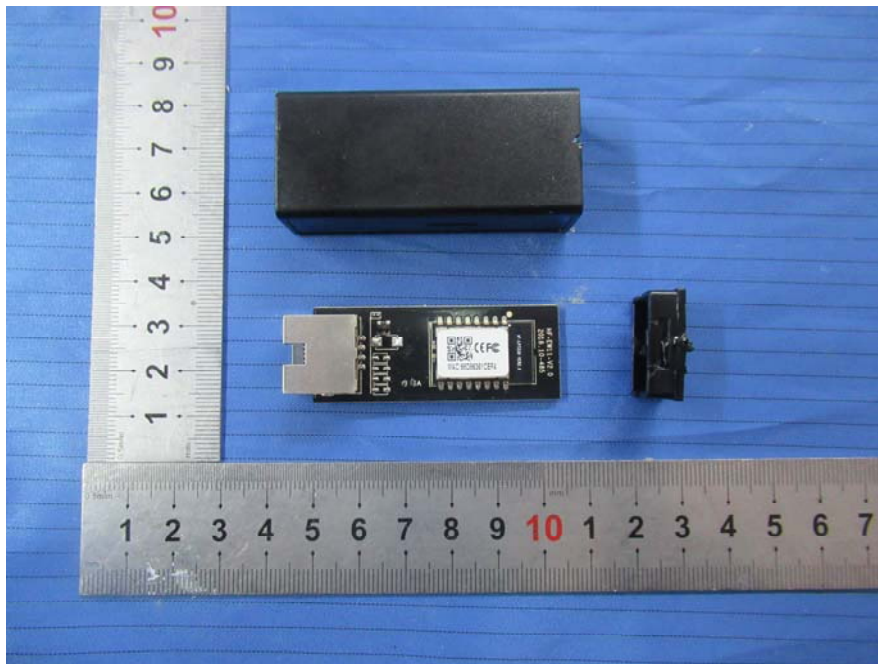




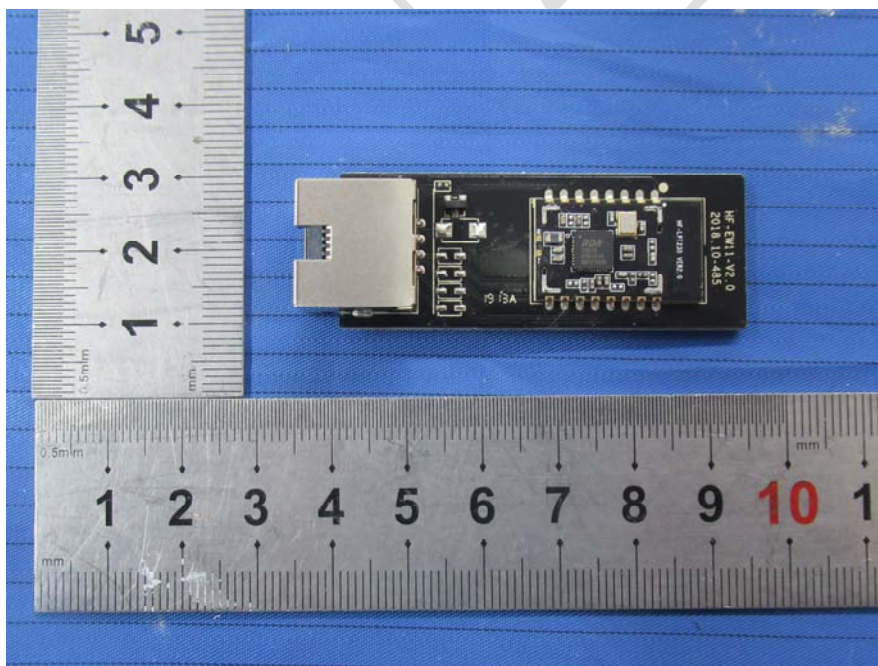




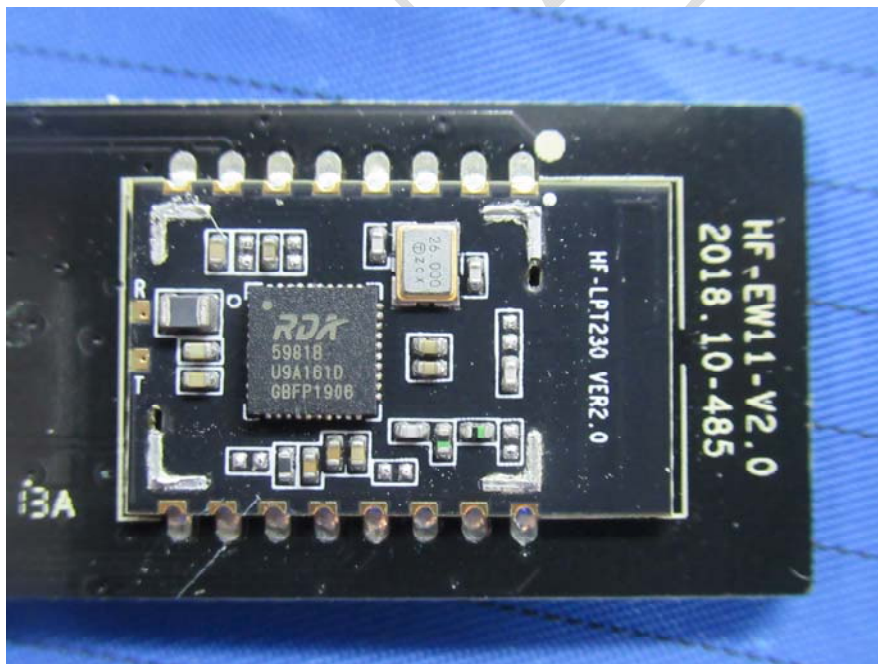
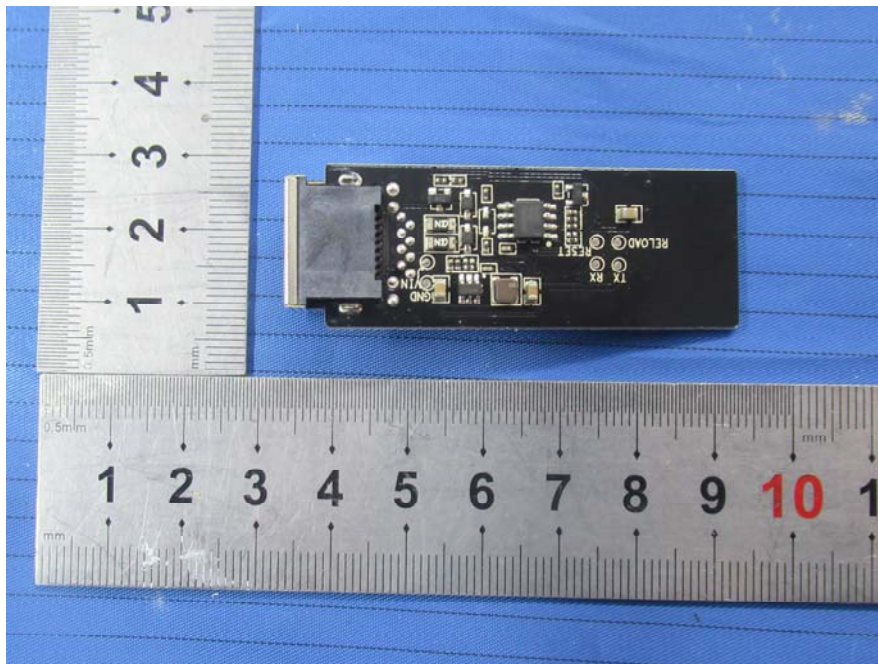






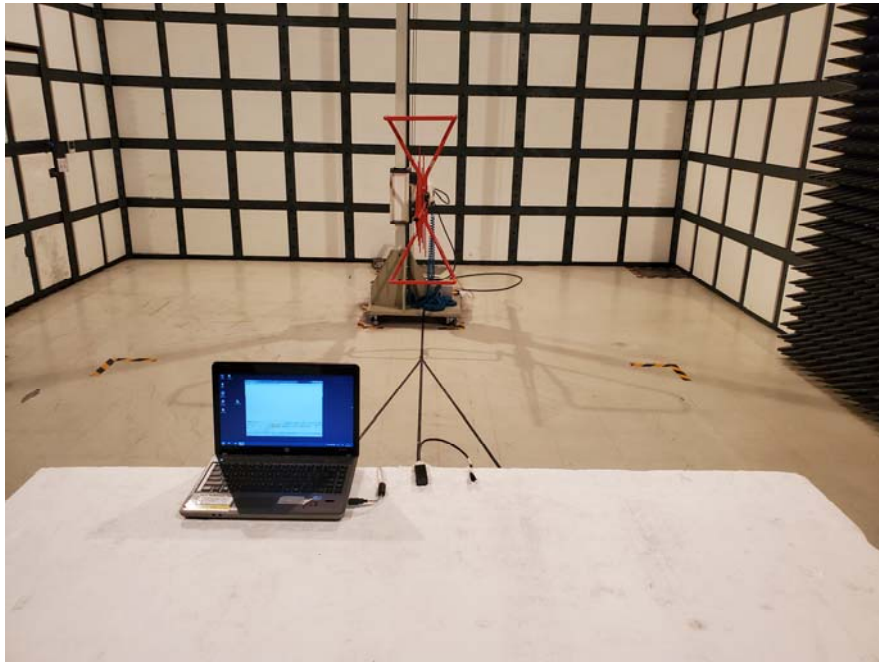




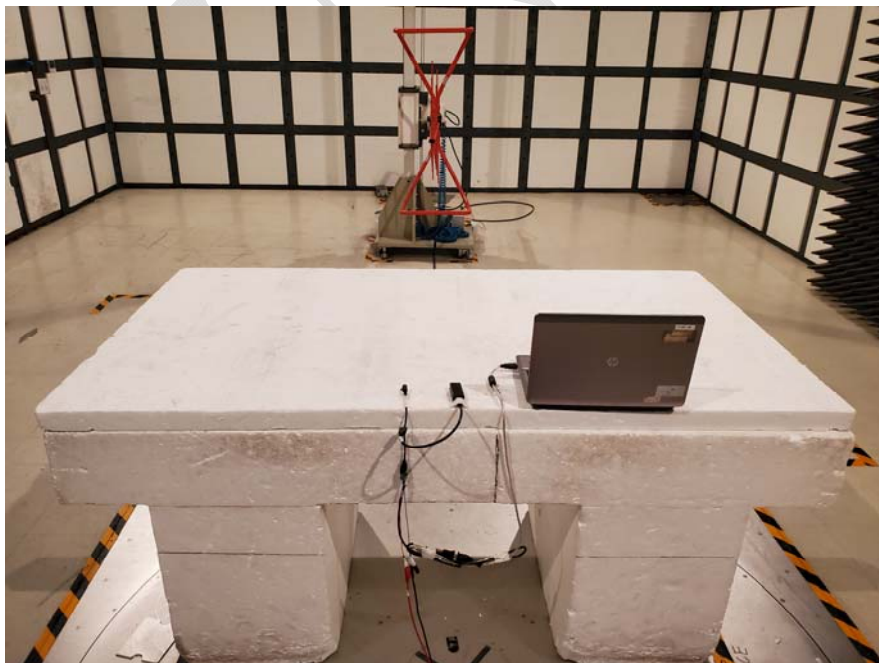


## **EXHIBIT B – TEST SETUP PHOTOGRAPHS**

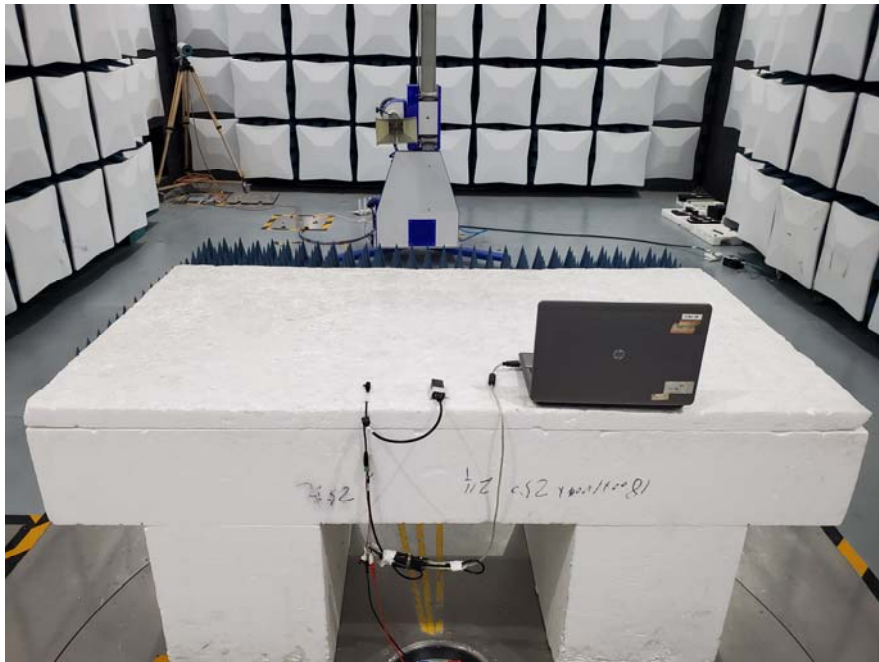
**Radiated Emissions - Front View (Below 1GHz)**



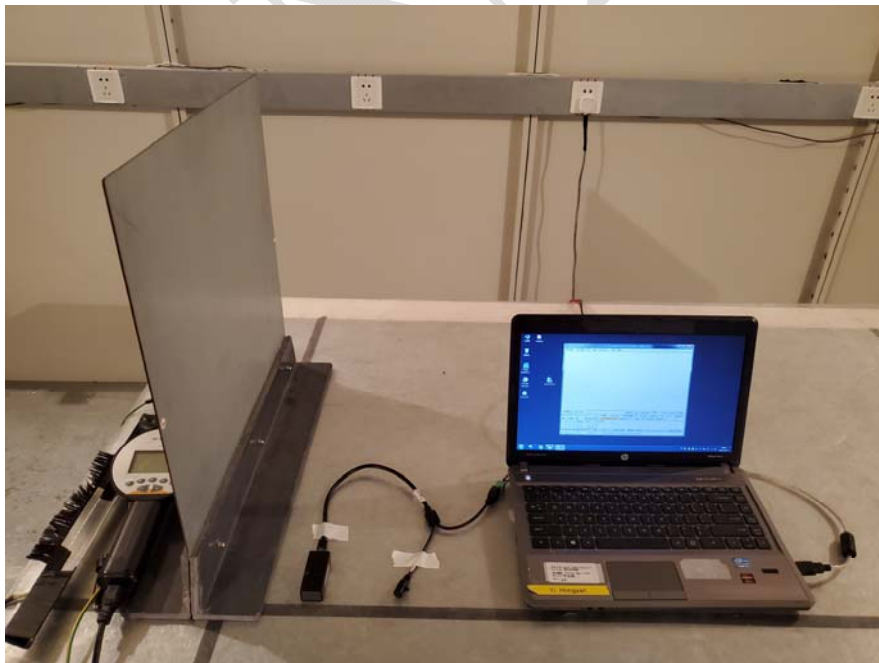
**Radiated Emissions - Rear View (Below 1GHz)**



**Radiated Emissions - Side View (Above 1GHz)**

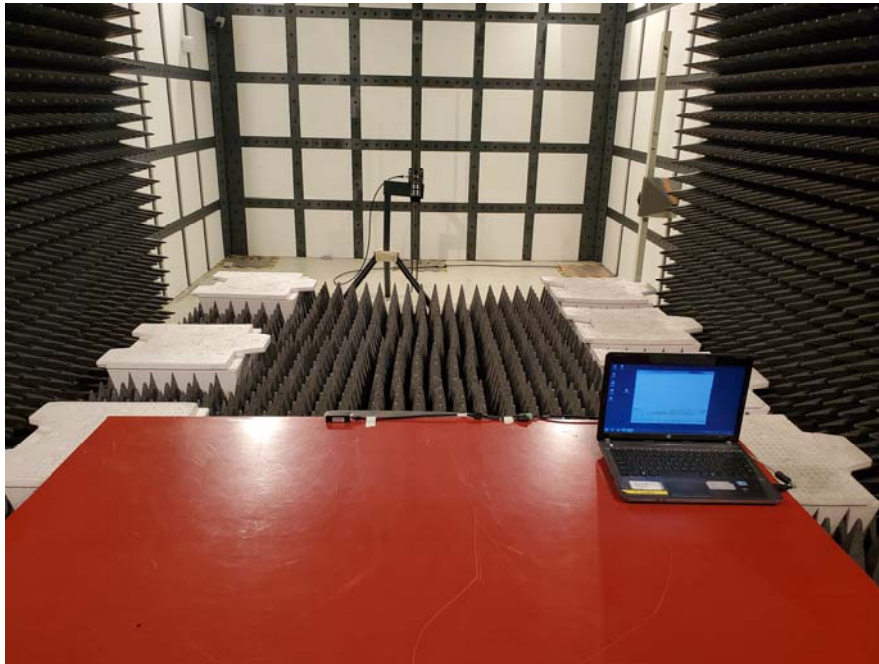


**ESD Test Setup Photo**





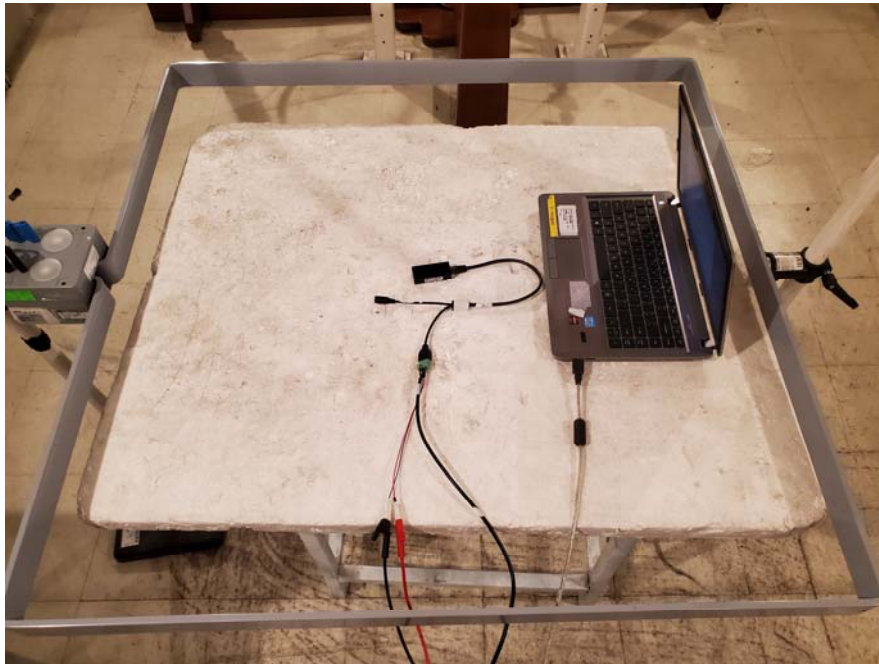
**RS Test Setup Photo (Below 1GHz)**



**RS Test Setup Photo (Above 1GHz)**



**PFMF Test Setup Photo**



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