

STEST REPORT

Report No.: 8227EU012705E

Applicant: HOLYBRO(H.K.) LIMITED

Address: RM 1902 EASEY COMM BLDG253-261 HENNESSY RD WANCHAI HONG KONG

Product Name: Kakute F4 V2

Model No.: Kakute F4 V2.4(refer to clause 2.4)

Trademark: Holybro

Test Standard(s): EN 55032: 2015+A1: 2020
EN 55035: 2017+A11: 2020

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ISSUED BY:
SHENZHEN EU TESTING LABORATORY LIMITED



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2 General Information

2.1 Applicant Information

Applicant	HOLYBRO(H.K.) LIMITED
Address	RM 1902 EASEY COMM BLDG253-261 HENNESSY RD WANCHAI HONG KONG

2.2 Manufacturer Information

Manufacturer	Shenzhen HolyBro Hobby Technical Co.,LTD
Address	Room 407, Area B, Kaicheng High-tech Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen City, Guangdong Province,China

2.3 Factory Information

Factory	Shenzhen HolyBro Hobby Technical Co.,LTD
Address	Room 407, Area B, Kaicheng High-tech Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen City, Guangdong Province,China

2.4 General Description of E.U.T.

Product Name	Kakute F4 V2
Model No. Under Test	Kakute F4 V2.4
List Model No.	Kakute
Description of Model differentiation	Fill in if there is a series model (this information provided by the customer)
Rating(s)	Input: 5V, 1000mA, 5W
Test Sample No.	-1/1(Normal Sample)
Hardware Version	N/A
Software Version	N/A
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.5 Technical Information of E.U.T.

Classification of equipment	<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B
F _x (Highest internal frequency)	<input checked="" type="checkbox"/> F _x ≤ 108 MHz	<input type="checkbox"/> 108 MHz ≤ F _x ≤ 500 MHz
	<input type="checkbox"/> 500 MHz ≤ F _x ≤ 1 GHz	<input type="checkbox"/> F _x ≥ 1 GHz <input type="checkbox"/> Unknown

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	EN 55032:2015+ A1:2020	Electromagnetic compatibility of multimedia equipment —Emission Requirements
2	EN 55035:2017+ A11:2020	Electromagnetic compatibility of multimedia equipment —Immunity Requirements

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

Emission		
Test Items	Standard	Results
Conducted Emission (Power Line)	EN 55032	PASS
Radiated Emission	EN 55032	PASS
Harmonic Current Emission	EN IEC 61000-3-2	N/A
Voltage Fluctuations&Flicker	EN 61000-3-3	N/A
Immunity		
Test Items	Standard	Results
Electrostatic Discharge	EN 55035/ IEC 61000-4-2	PASS
Continuous RF Field Strength Disturbances ☆	EN 55035/ IEC 61000-4-3	PASS
Electrical Fast Transient/Burst	EN 55035/ IEC 61000-4-4	N/A
Surges	EN 55035/ IEC 61000-4-5	N/A
Continuous Induced RF Disturbance	EN 55035/ IEC 61000-4-6	N/A
Power Frequency Magnetic	EN 55035/ IEC 61000-4-8	N/A
Voltage Dips & Voltage Interruptions	EN 55035/ IEC 61000-4-11	N/A
Note: (1) "N/A" denotes test is not applicable in this Test Report. (2) The test item marked with "☆" is subcontracted to SHENZHEN ALPHA PRODUCT TESTING CO., LTD., which has gained the customer's approval.		

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Bldg. B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	230VAC, 50Hz for Adapter

4.2 Test Equipment

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2024/01/09	2025/01/08
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-014	N.C.R	N.C.R

Radiated Emission Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2024/01/09	2025/01/08
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	2026/01/09
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/12	2026/01/09
Pre-amplifier	Agilent	8447D	EE-009	2024/01/09	2025/01/08
Pre-amplifier	Agilent	8449B	EE-010	2024/01/09	2025/01/08
MXA Signal Analyzer	Agilent	N9020A	EE-011	2024/01/09	2025/01/08
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2024/01/09	2025/01/08
Test Software	Farad	EZ-EMC	EE-015	N.C.R	N.C.R

Electrostatic Discharge Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
ESD Simulators	NoiseKen	ESS-B3011	EE-013	2024/01/09	2025/01/08

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	Pisen	TS-C051	--

4.4 Test Mode

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 bellow was evaluated respectively.

No.	Test Modes	Description
TM1	Working Mode	Keep the EUT in working mode.

4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Radiated Emission (30MHz- 1GHz)	Ur = 2.70 dB (Horizontal)
	Ur = 2.70 dB (Vertical)
Radiated Emission (1GHz- 18GHz)	Ur = 3.50 dB (Horizontal)
	Ur = 3.50 dB (Vertical)
Radiated Emission (18GHz- 40GHz)	Ur = 5.15 dB (Horizontal)
	Ur = 5.24 dB (Vertical)
Conducted Emission	Uc = 2.50 dB

5 Emission Test

5.1 Conducted Emission at AC Power Line

5.1.1 Test Requirement

Test Standard	EN 55032
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Limits for conducted emission at the AC mains power ports of Class A equipment

Test Limit	Frequency (MHz)	At mains terminals (dB μ V)	
		Quasi-peak Level	Average Level
	0.15 ~ 0.50	79.0	66.0
0.50 ~ 30.00	73.0	60.0	

Remark: (1) The lower limit shall apply at the transition frequencies.

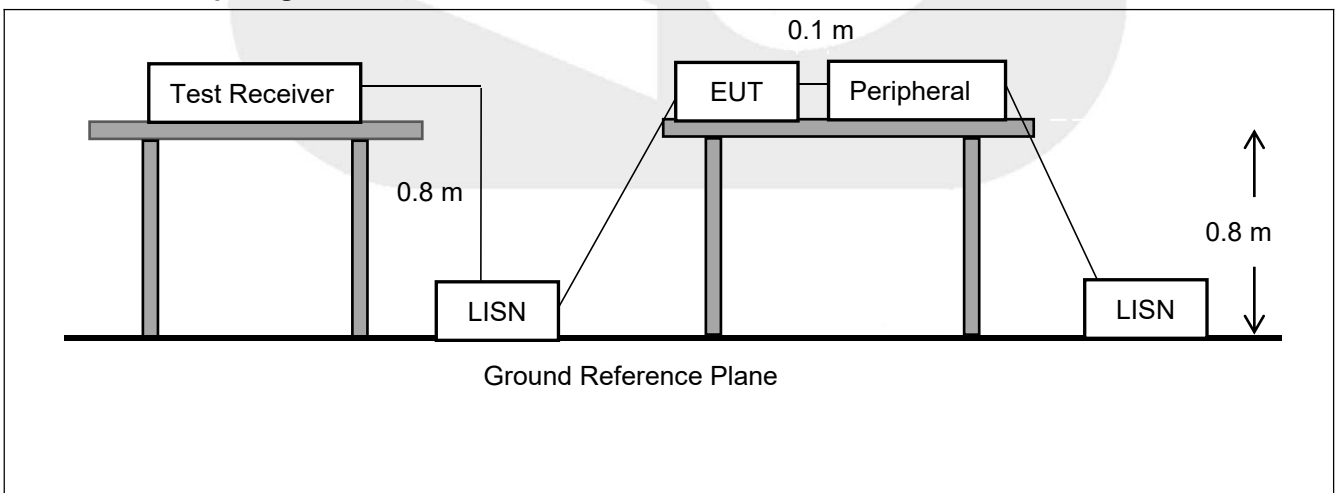
Limits for conducted emission at the AC mains power ports of Class B equipment

Test Limit	Frequency (MHz)	At mains terminals (dB μ V)	
		Quasi-peak Level	Average Level
	0.15 ~ 0.50	66.0 ~ 56.0*	59.0 ~ 46.0*
0.50 ~ 5.00	56.0	46.0	
5.00 ~ 30.00	60.0	50.0	

Remark: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.1.2 Test Setup Diagram



5.1.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

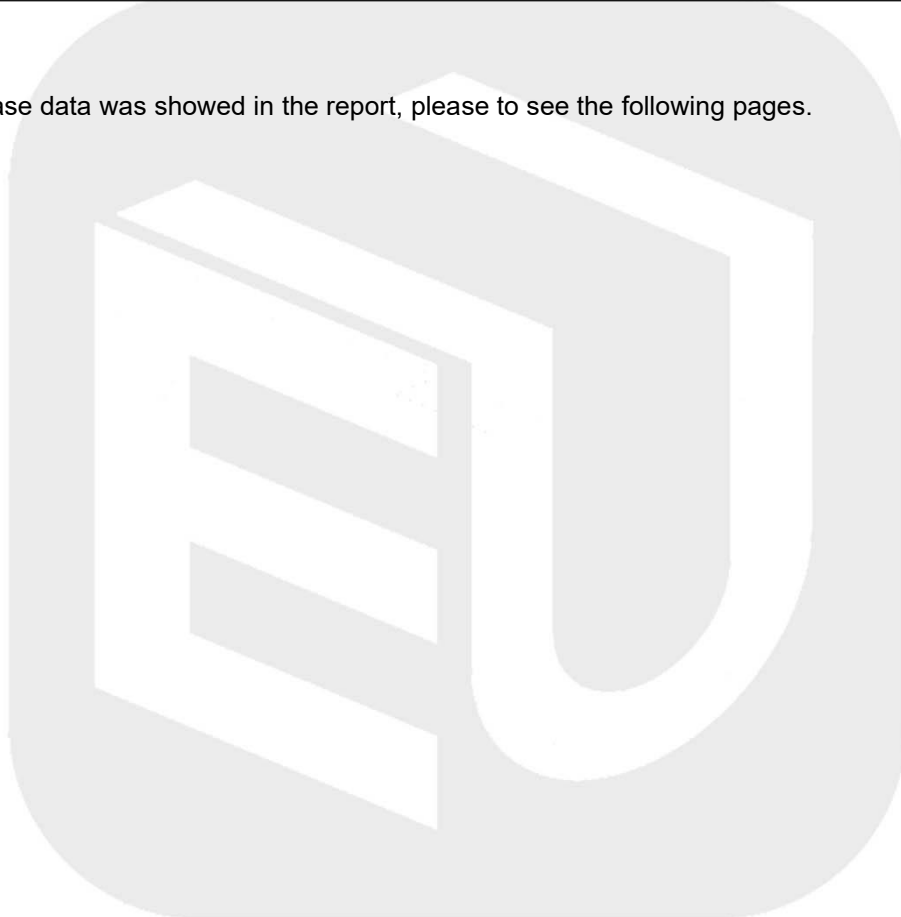
The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.1.4 Test Data

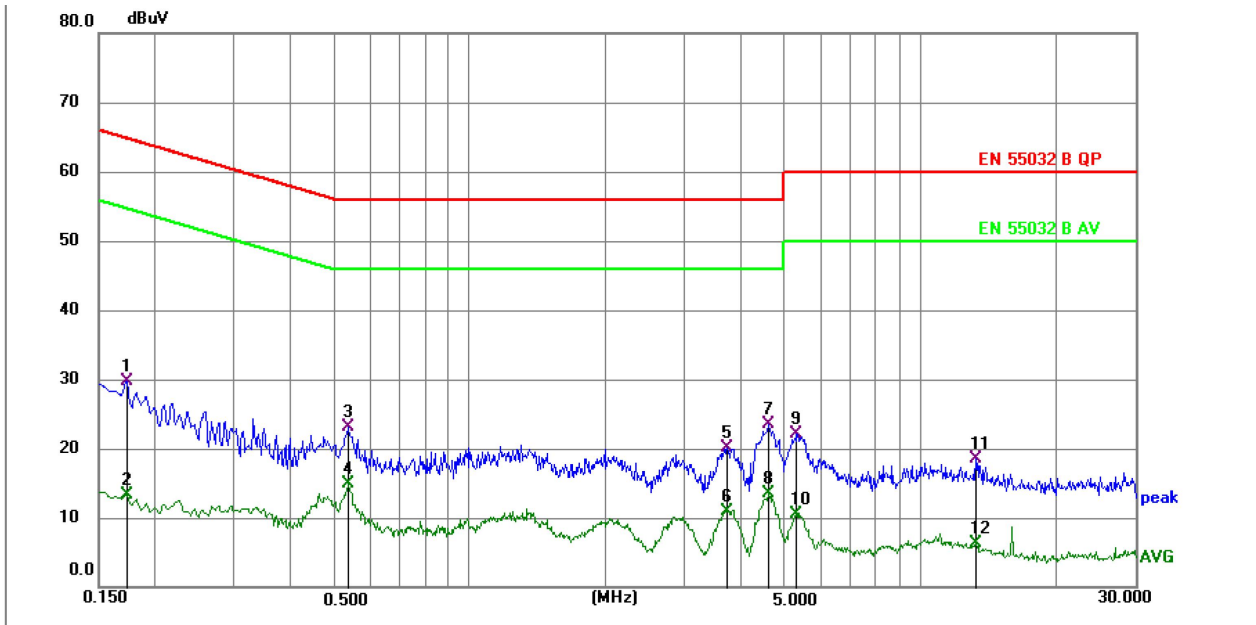
PASS.

Only the worst case data was showed in the report, please to see the following pages.



Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Live Line

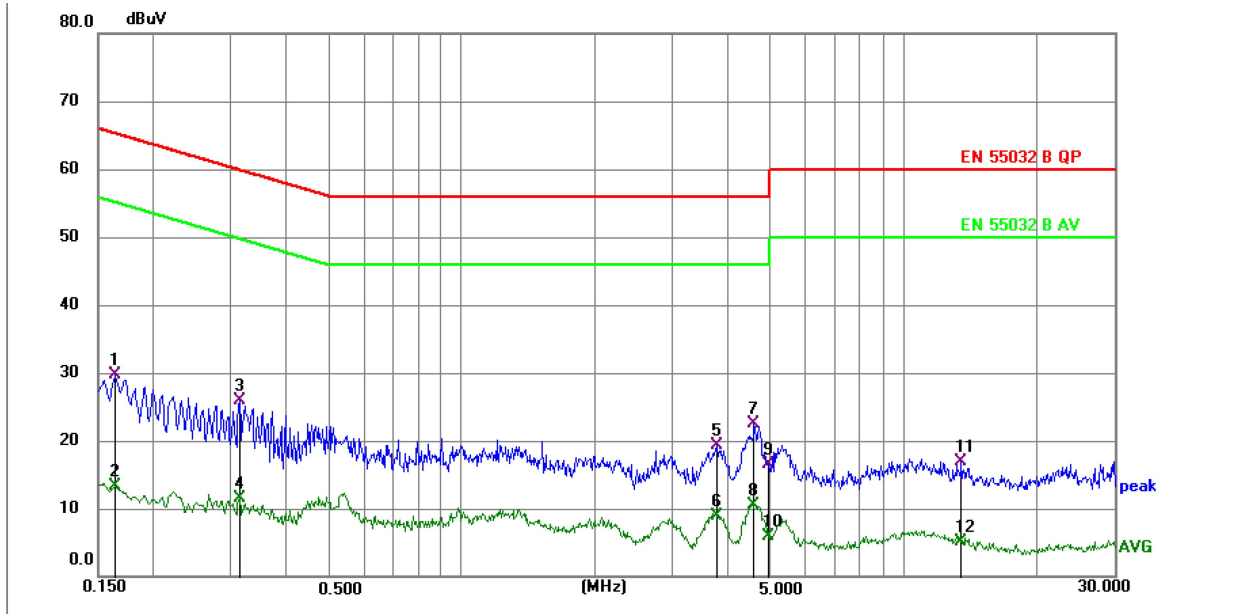


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1724	19.86	9.91	29.77	64.84	-35.07	QP	P	
2	0.1724	3.44	9.91	13.35	54.84	-41.49	AVG	P	
3	0.5370	13.14	9.97	23.11	56.00	-32.89	QP	P	
4 *	0.5370	4.85	9.97	14.82	46.00	-31.18	AVG	P	
5	3.7230	10.03	10.02	20.05	56.00	-35.95	QP	P	
6	3.7230	0.94	10.02	10.96	46.00	-35.04	AVG	P	
7	4.6005	13.41	10.00	23.41	56.00	-32.59	QP	P	
8	4.6005	3.50	10.00	13.50	46.00	-32.50	AVG	P	
9	5.3160	12.12	10.00	22.12	60.00	-37.88	QP	P	
10	5.3160	0.50	10.00	10.50	50.00	-39.50	AVG	P	
11	13.2675	8.43	10.02	18.45	60.00	-41.55	QP	P	
12	13.2675	-3.74	10.02	6.28	50.00	-43.72	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

Conducted Emission Test Data

Test Site: Shielded Room #1
 Test Mode: TM1
 Comments: Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	19.79	9.93	29.72	65.28	-35.56	QP	P	
2	0.1635	3.33	9.93	13.26	55.28	-42.02	AVG	P	
3	0.3120	15.86	9.97	25.83	59.92	-34.09	QP	P	
4	0.3120	1.53	9.97	11.50	49.92	-38.42	AVG	P	
5	3.7680	9.33	10.01	19.34	56.00	-36.66	QP	P	
6	3.7680	-1.19	10.01	8.82	46.00	-37.18	AVG	P	
7 *	4.5960	12.41	10.01	22.42	56.00	-33.58	QP	P	
8	4.5960	0.54	10.01	10.55	46.00	-35.45	AVG	P	
9	4.9335	6.42	10.01	16.43	56.00	-39.57	QP	P	
10	4.9335	-4.12	10.01	5.89	46.00	-40.11	AVG	P	
11	13.5105	6.84	10.05	16.89	60.00	-43.11	QP	P	
12	13.5105	-4.97	10.05	5.08	50.00	-44.92	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

5.2 Radiated Emission Test

5.2.1 Test Requirement

Test Standard	EN 55032
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Limit for radiated emissions at frequencies up to 1 GHz for class A equipment

Frequency (MHz)	Distance (Meters)	Limit (dB μ V/m)
30 ~ 230	3	50
230 ~ 1000	3	57

Remark: The lower limit shall apply at the transition frequencies.

Limit for radiated emissions at frequencies above 1 GHz for class A equipment

Frequency (MHz)	Distance (Meters)	Limit (dB μ V/m)	
		Peak	Average
1000 ~ 3000	3	76	56
3000 ~ 6000	3	80	60

Remark: The lower limit shall apply at the transition frequencies.

Limit for radiated emissions at frequencies up to 1 GHz for class B equipment

Frequency (MHz)	Distance (Meters)	Limit (dB μ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Remark: The lower limit shall apply at the transition frequencies.

Limit for radiated emissions at frequencies above 1 GHz for class B equipment

Frequency (MHz)	Distance (Meters)	Limit (dB μ V/m)	
		Peak	Average
1000 ~ 3000	3	70	50
3000 ~ 6000	3	74	54

Remark: The lower limit shall apply at the transition frequencies.

Radiated emission test limit for FM receivers

Frequency (MHz)	Distance (Meters)	Limit (dB μ V/m)	
		Fundamental	Harmonics
30 ~ 230	3	60	52
230 ~ 300	3	60	52
300 ~ 1000	3	60	56

Remark: The lower limit shall apply at the transition frequency.

5.2.2 Test Setup Diagram

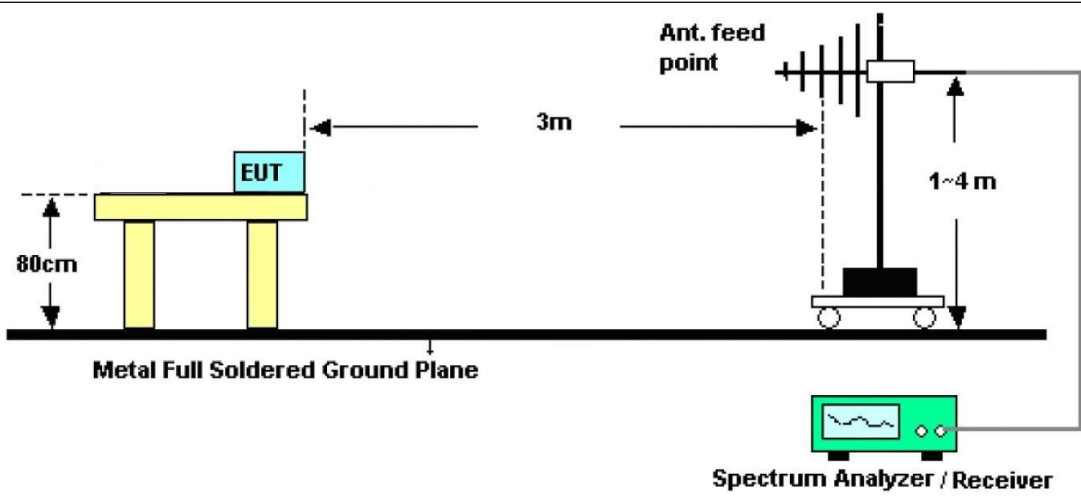


Figure 1. Below 1GHz

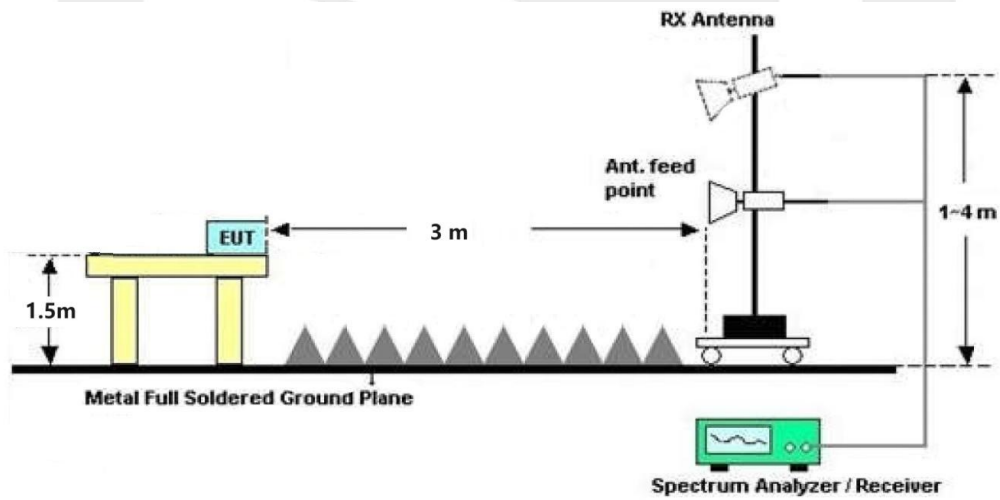
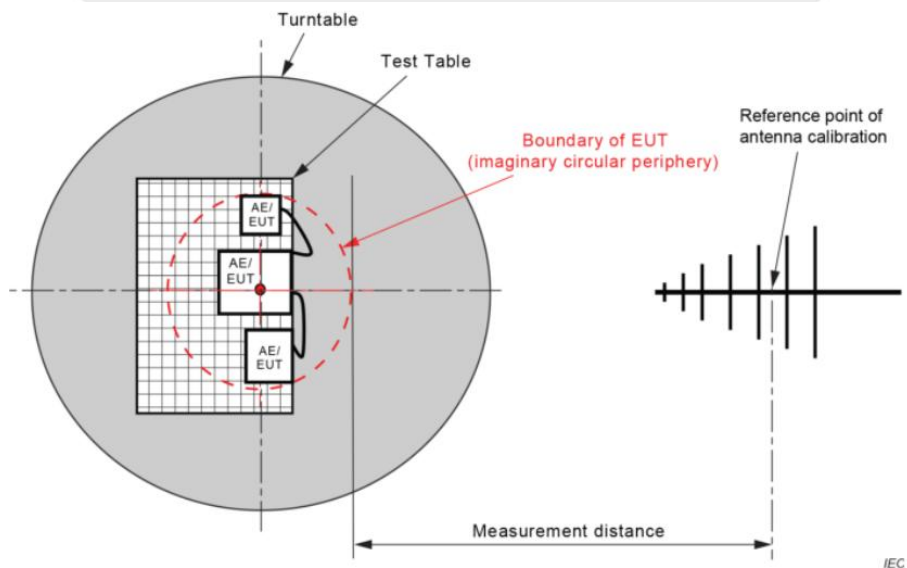


Figure 2. Above 1GHz



IEC

5.2.3 Test Procedure

The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter test site. The table was rotated 360 degrees to determine the position of the highest radiation.

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.

The initial step in collecting radiated 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.

The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak/Average detection at frequency above 1GHz.

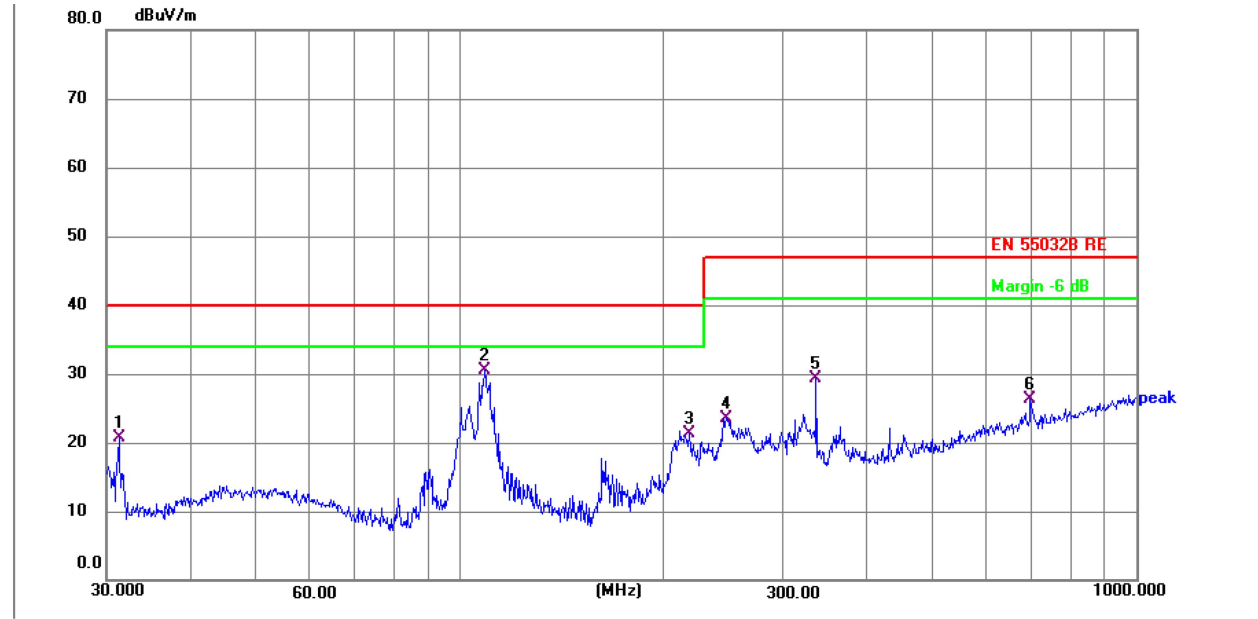
5.2.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Horizontal
Distance:	3m	Test Mode:	TM1

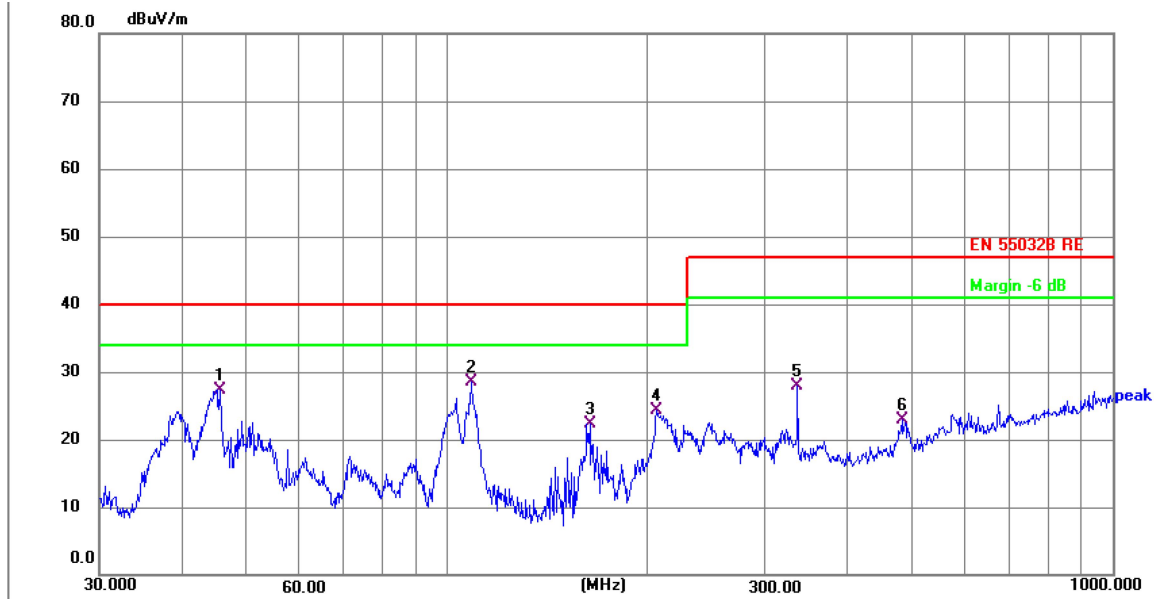


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	31.2893	37.59	-16.94	20.65	40.00	-19.35	QP	P	
2 *	108.6470	46.36	-15.88	30.48	40.00	-9.52	QP	P	
3	218.3085	35.51	-14.26	21.25	40.00	-18.75	QP	P	
4	247.6819	36.81	-13.29	23.52	47.00	-23.48	QP	P	
5	336.0352	40.60	-11.26	29.34	47.00	-17.66	QP	P	
6	696.8567	31.54	-5.20	26.34	47.00	-20.66	QP	P	

Note: Level = Reading + Factor Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

Test Site:	966 Chamber #1	Polarization:	Vertical
Distance:	3m	Test Mode:	TM1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.5348	41.51	-14.19	27.32	40.00	-12.68	QP	P	
2 *	108.6470	44.34	-15.88	28.46	40.00	-11.54	QP	P	
3	163.7550	39.79	-17.42	22.37	40.00	-17.63	QP	P	
4	206.3976	39.05	-14.67	24.38	40.00	-15.62	QP	P	
5	336.0352	39.14	-11.26	27.88	47.00	-19.12	QP	P	
6	482.2156	31.92	-8.96	22.96	47.00	-24.04	QP	P	

Note: Level = Reading + Factor

Margin = Level - Limit

6 Immunity Test

Test Performance Criteria for Immunity Test

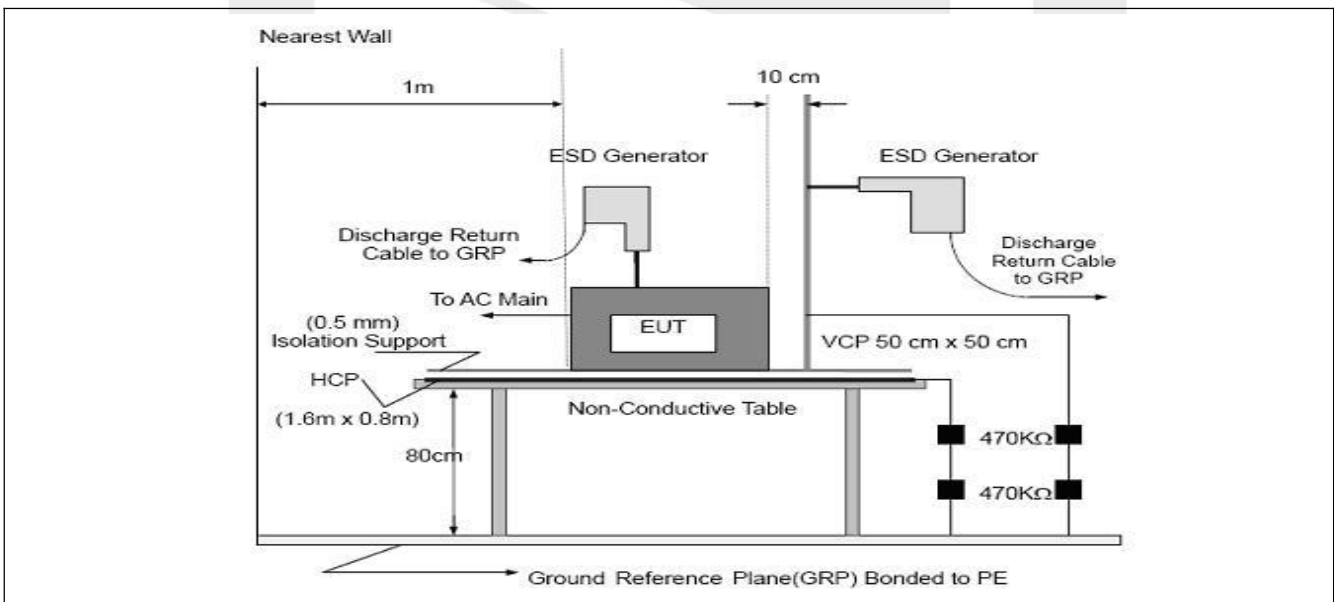
Type	Description
Criterion A	<p>The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.</p> <p>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.</p>
Criterion B	<p>During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.</p> <p>After the test, 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), or recovery time, 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.</p>
Criterion C	<p>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. A reboot or re-start operation is allowed</p>

6.1 Electrostatic Discharge Test

6.1.1 Test Requirement

Test Standard	EN 55035
Basic Standard	IEC 61000-4-2
Discharge Impedance	330 ohm / 150 pF
Performance Criteria	B
Discharge Voltage	Air Discharge: 2kV/4kV/8kV Contact Discharge: 2kV/4kV/ (Direct/Indirect)
Polarity	Positive & Negative
Number of Discharge	10 times per polarity at each test point
Discharge Mode	Single Discharge
Discharge Period	1 second minimum

6.1.2 Test Setup Diagram



6.1.3 Test Procedure

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 940kohm 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 of 1-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 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-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.

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:
 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.
 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.
 Air discharges at insulation surfaces of the EUT.
 It was at least ten single discharges with positive and negative at the same selected point.

6.1.4 Test Data

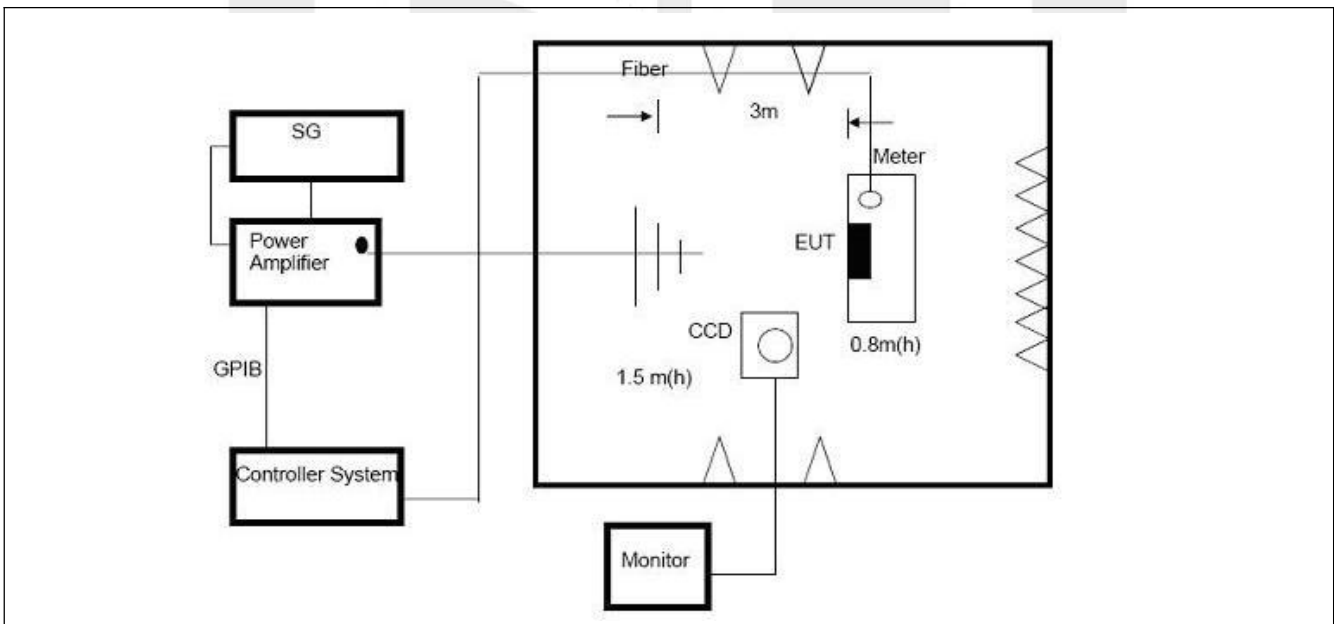
Electrostatic Discharge Test Results				
Test Mode	TM1			
Test Voltage	Coupling	Observation	Perform. Criteria	Verdict
±2KV, ±4kV, ±8kV	Air Discharge	A	B	PASS
±4kV	Contact Discharge	A	B	PASS
±4kV	Indirect Discharge HCP	A	B	PASS
±4kV	Indirect Discharge VCP	A	B	PASS

6.2 Continuous RF Electromagnetic Field Disturbances Test

6.2.1 Test Requirement

Test Standard	EN 55035
Basic Standard	IEC 61000-4-3
Performance Criteria	A
Frequency Range	80MHz to 1000MHz, and Spot frequencies: 1800 MHz, 2600 MHz, 3500 MHz and 5000 MHz ($\pm 1\%$)
Field Strength	3 V/m
Modulation	1kHz Sine Wave, 80%, AM Modulation
Frequency Step	1 % of preceding frequency value
Polarity of Antenna	Horizontal and Vertical
Test Distance	3 m
Antenna Height	1.5 m
Dwell Time	at least 0.5s

6.2.2 Test Setup Diagram



6.2.3 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.

- 1) The field strength level was 3V/m.
- 2) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 3) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

6.2.4 Test Data

Continuous RF Field Strength Disturbances Test Results						
Test Mode		TM1				
Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Observation	Perform. Criteria	Verdict
80 ~ 1000	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	A	A	PASS
			Rear	A	A	PASS
			Left	A	A	PASS
			Right	A	A	PASS
1800 MHz, 2600 MHz, 3500 MHz 5000 MHz (±1%)	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	A	A	PASS
			Rear	A	A	PASS
			Left	A	A	PASS
			Right	A	A	PASS
Remark: This test item is subcontracted to SHENZHEN ALPHA PRODUCT TESTING CO., LTD.						

ANNEX A TEST SETUP PHOTOS

PHOTO 1

Conducted Emission Test



PHOTO 1

Radiated Emission Test

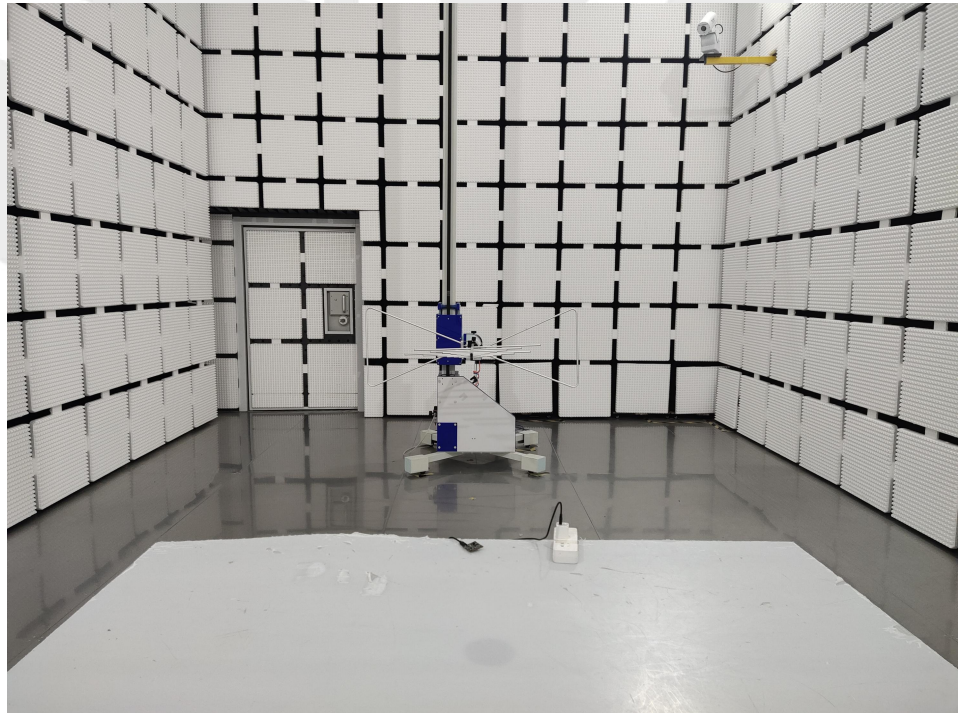
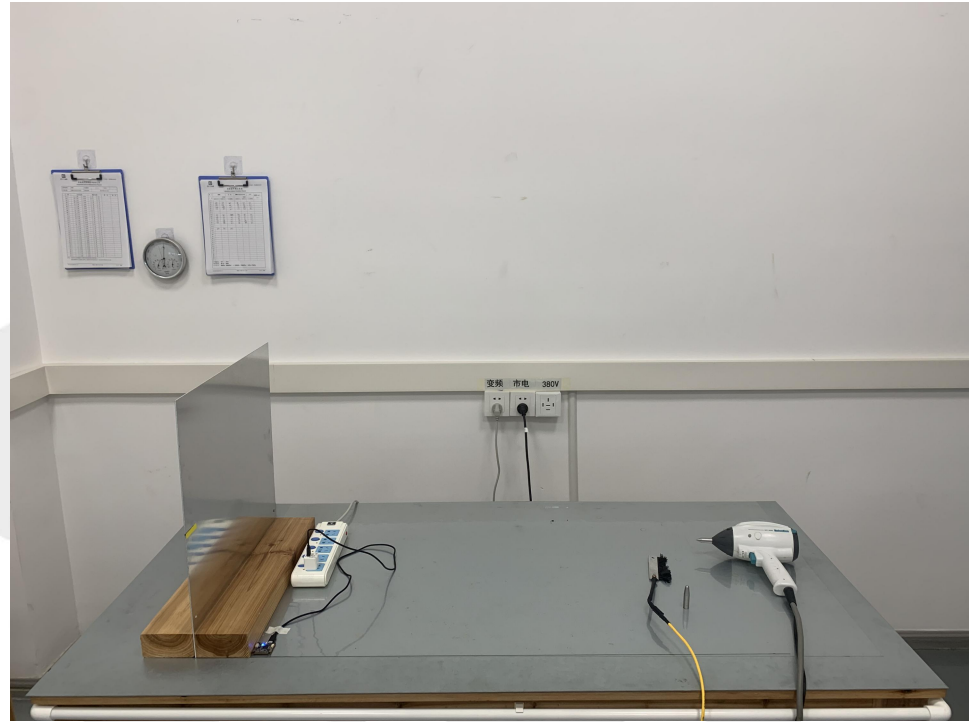


PHOTO 2

Electrostatic
Discharge Immunity
Test



ANNEX B EUT PHOTOS

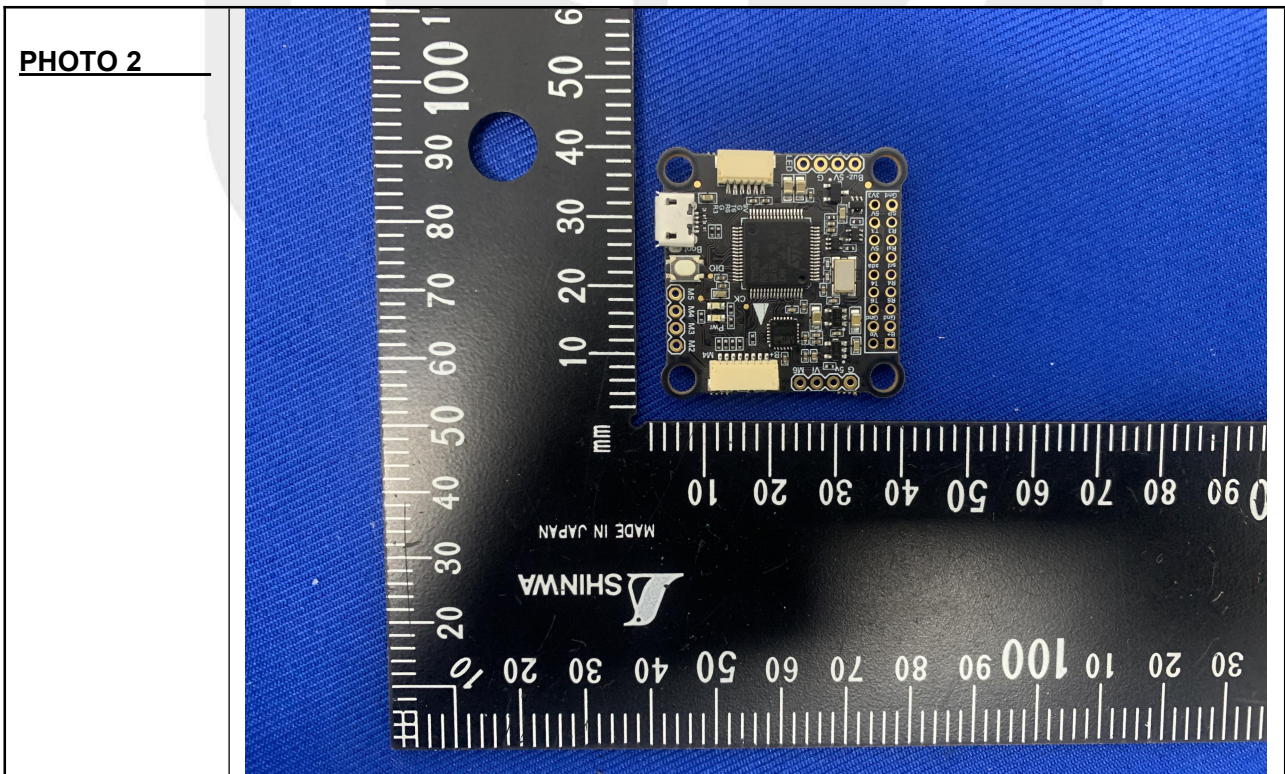
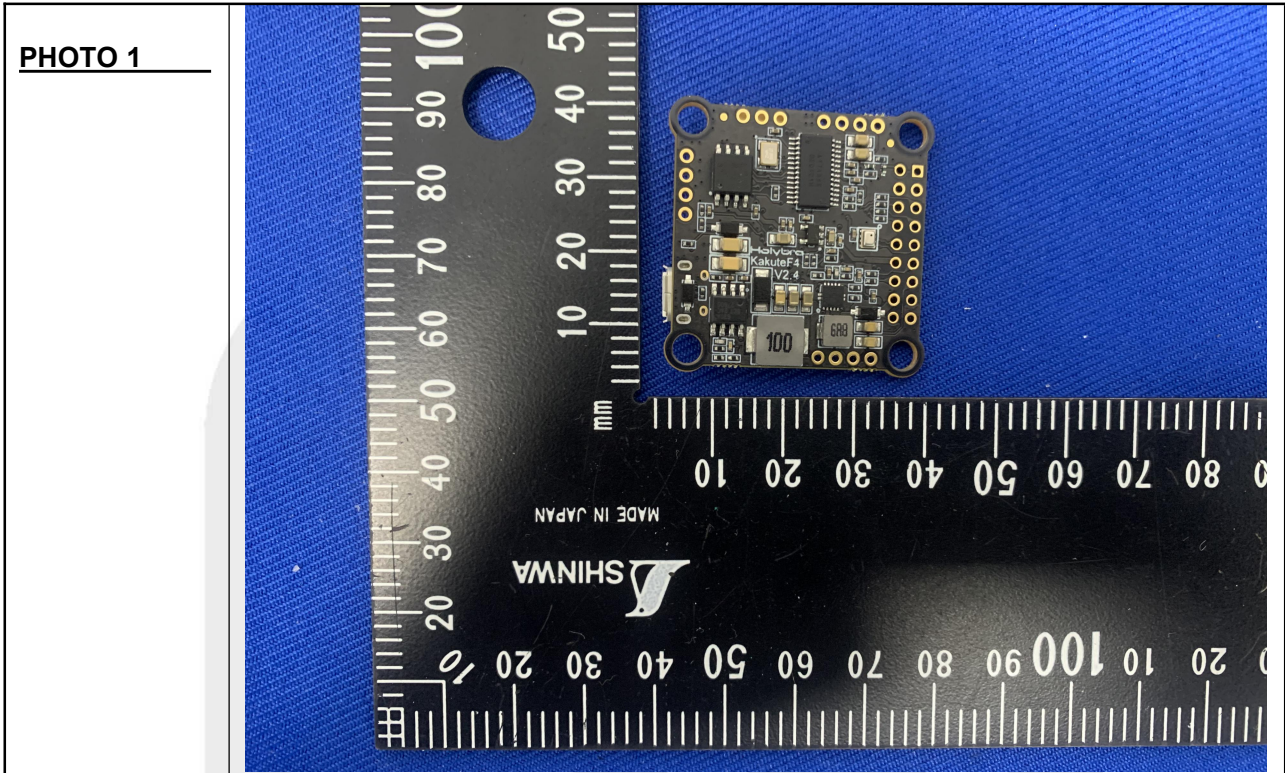


PHOTO 3

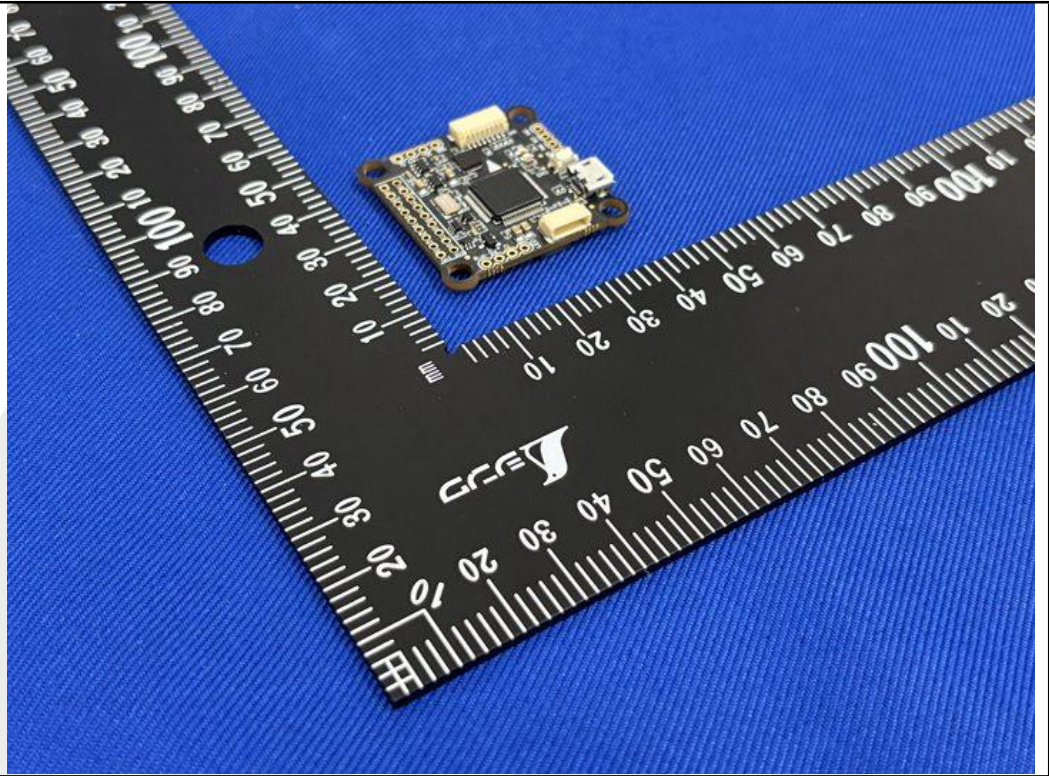


PHOTO 4

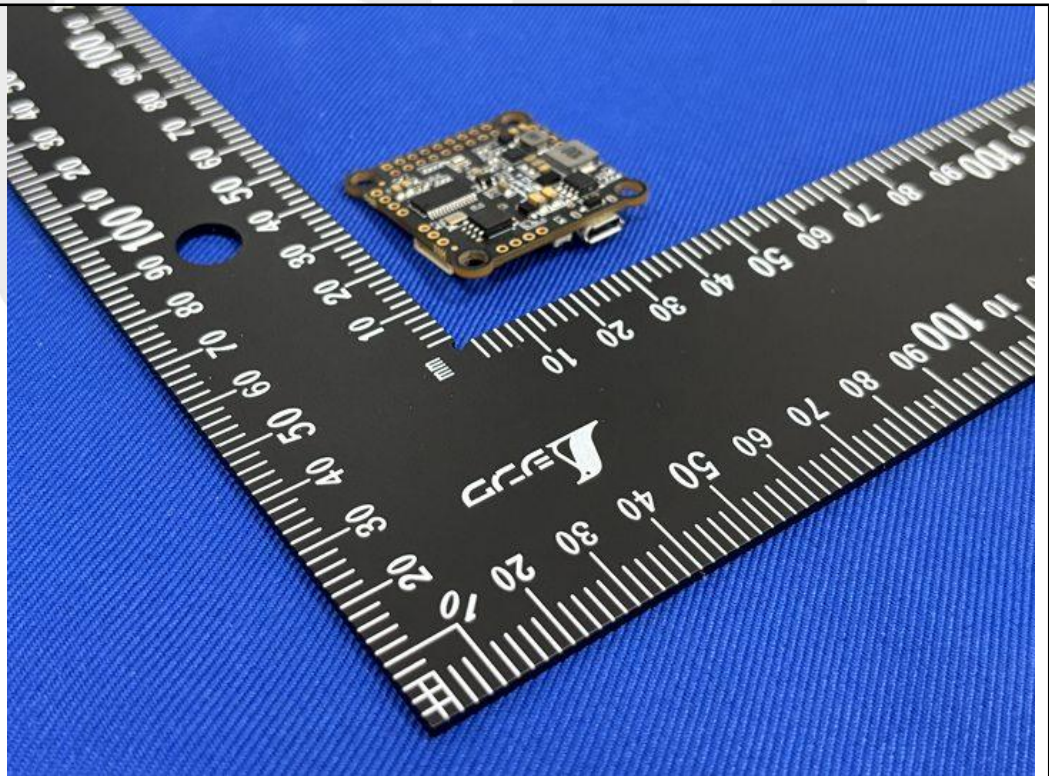
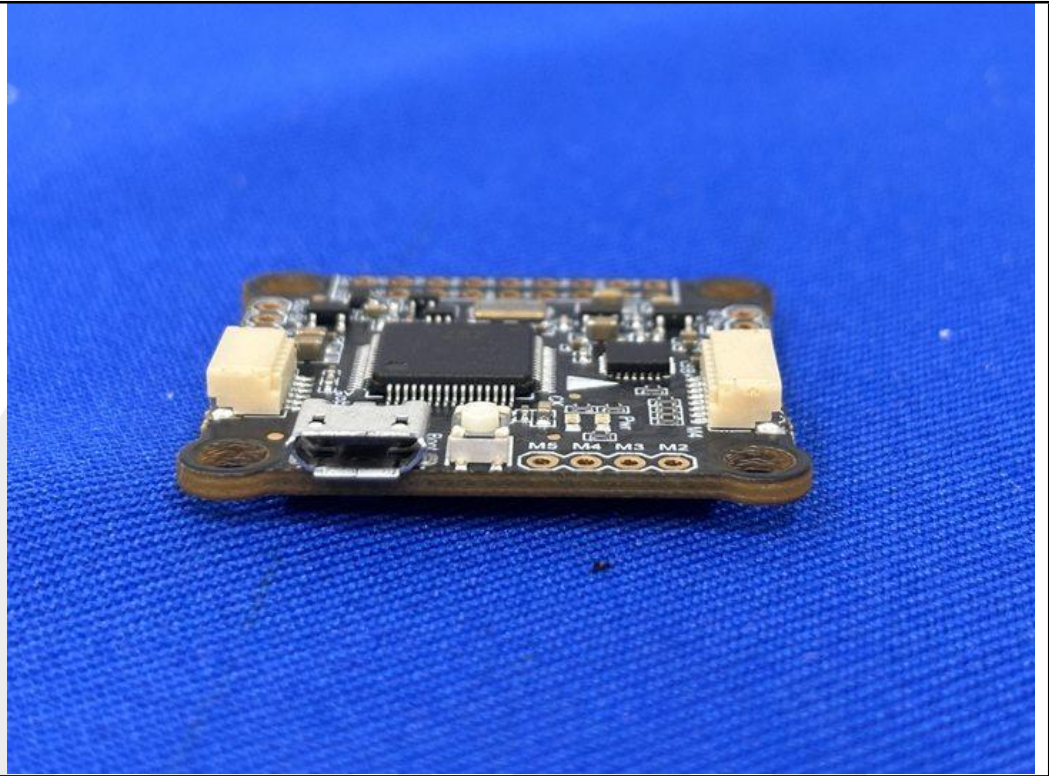


PHOTO 5



STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
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6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---