



TEST REPORT



Application No.: YCT2023SZ1106591E

Applicant: Finetooling Technology (Guangzhou) Co., Ltd

Address: Building 3, No. 88, Chunfen Road, Huangpu District, Guangzhou City, Guangdong Province 050200, China.

Equipment Under Test (EUT):

EUT Name: 5½ DIGITAL MULTIMETER

Trade Mark:



Model No.: FT3550

Standards: EN 61326-1:2013

Date of Receipt: Oct. 30, 2023

Date of Test: Oct. 30, 2023 to Nov. 03, 2023

Date of Issue: Nov. 04, 2023

Test Result :	PASS*
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.



Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf.

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the YCT PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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All test results in this report can be traceable to National or International Standards.

Shenzhen Yacetong Testing Technology Services Co., Ltd.

Address: Room 310, No.12, Tongfu Industrial Zone, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





1 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission 150KHz to 30MHz	EN 61326-1:2013	CISPR 11:2016	Table 4	PASS
Radiated Emission 30MHz to 1GHz	EN 61326-1:2013	CISPR 11:2016	Table 7	PASS
Harmonic Emission on AC, 100Hz to 2kHz	EN 61326-1:2013	IEC 61000-3-2:2018	Class A	N/A
Flicker Emission on AC	EN 61326-1:2013	IEC 61000-3-3:2017	Clause 5	PASS
ESD	EN 61326-1:2013	IEC 61000-4-2:2008	Contact \pm , 4 kV Air \pm 8 kV	PASS
Radiated Immunity, 80MHz to 2.7GHz	EN 61326-1:2013	IEC 61000-4-3:2020	80MHz to 1GHz 3V/m 1.4GHz to 2GHz 3V/m 2GHz to 2.7GHz 1 V/m	PASS
Electrical Fast Transients (EFT) on AC	EN 61326-1:2013	IEC 61000-4-4:2012	AC \pm 0.5 & 1.0Kv	PASS
Surge Immunity on AC	EN 61326-1:2013	IEC 61000-4-5:2014	\pm 1.0kV D.M. \dagger \pm 2.0kV C.M. \ddagger	PASS
Injected Currents on AC 150kHz to 230MHz	EN 61326-1:2013	IEC 61000-4-6:2013	3Vrms(emf) , 80%, 1kHz, Amp. Mod.	PASS
Voltage Dips and Interruptions on AC	EN 61326-1:2013	IEC 61000-4-11:2020	0 % U_T^* for 0.5per 40 % U_T^* for 10per 70 % U_T^* for 25per	PASS

Remarks:

* U_T is the nominal supply voltage

\dagger D.M. – Differential Mode

\ddagger C.M. – Common Mode

N/A: Not Applicable, refer to section 5.3 of this report for further details.

Testing Engineer :

Technical Manager :

Authorized Signatory :



(Jim he)



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3 General Information

3.1 Client Information

Applicant: Finetooling Technology (Guangzhou) Co.,Ltd
Address of Applicant: Building 3, No. 88, Chunfen Road, Huangpu District, Guangzhou City, Guangdong Province 050200, China.
Manufacturer: Finetooling Technology (Guangzhou) Co.,Ltd
Address of Manufacturer: Building 3, No. 88, Chunfen Road, Huangpu District, Guangzhou City, Guangdong Province 050200, China.

3.2 General Description of E.U.T.

EUT Name: 5½ DIGITAL MULTIMETER
Trade Mark:  **Fine Tooling**
Model No.: FT3550
Model Difference: ---

3.3 Details of E.U.T.

Power Supply: 230V~, 50Hz during the test
Ratings: 12Vdc/200mA or 24vdc/100mA
Power Cord: 2 wires

3.4 Description of Support Units

The EUT has been tested with an AC/DC adapter.

3.5 Test Company

All tests were performed by:
Shenzhen Yacetong Testing Technology Services Co., Ltd.
Room 310, No.12, Tongfu Industrial Zone, Xinhe Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Monitoring of EUT for All Immunity Test

Visual: Monitored the software of EUT

4 Equipments Used during Test

Test Equipment	Manufacturer	Description	Cal.Date	Cal.Due date
EMI TEST Receiver	R/S	9KHz-3GHz	2023-6-15	2024-6-14
Power meter	BOOTON	0~18GHz	2023-6-9	2024-6-8
RF Amplifier	PRANA R&D	140W 10KHz-1GHz	2023-6-17	2024-6-16
RF Amplifier	PRANA R&D	50W 0.8-3GHz	2023-6-17	2024-6-16
CND	Liithi	150KHz-230MHz	2023-7-3	2024-7-2
CDN	Liithi	150KHz-230MHz	2023-7-3	2024-7-2
LISN	SCHWARZBECK	9KHz-30MHz	2023-7-3	2024-7-2
LISN	SCHWARZBECK	9KHz-30MHz	2023-7-3	2024-7-2
probe	Radicentre	DC~6GHz	2023-5-26	2024-5-25
filter	Telonic	30MHz~65MHz	2023-7-3	2024-7-2
filter	Telonic	65MHz~125MHz	2023-7-3	2024-7-2
filter	Telonic	125MHz~250MHz	2023-7-3	2024-7-2
filter	Telonic	250MHz~500MHz	2023-7-3	2024-7-2
filter	Telonic	500MHz~1GHz	2023-7-3	2024-7-2
filter	Telonic	1GHz~2.2GHz	2023-7-3	2024-7-2
filter	Telonic	2.2GHz~3.1GHz	2023-7-3	2024-7-2
V-dip Tester	EMC Partner	0%~100%U	2023-7-3	2024-7-2
SURGE Tester	EMC Partner	-4.1V~+4.1V	2023-7-3	2024-7-2
EFT TESTER	EMC Partner	-4.4kV~+4.4kV	2023-7-3	2024-7-2
EFT COUPER	EMC Partner	-4.4kV~+4.4kV	2023-6-14	2024-6-13
ESD Gun	EMC Partner	-30kV~+30kV	2023-6-17	2024-6-16
ESD Discharger module	EMC Partner	-30kV~+30kV	2023-6-17	2024-6-16
Power amplifier	BRYSTON	25Hz~150kHz	2023-6-17	2024-6-16
chamber	ETS	DC~18GHz	2024-4-11	2023-4-10
antenna	SCHWARZBECK	9kHz~30MHz	2023-6-20	2024-6-19
antenna	SCHWARZBECK	450MHz~6GHz	2023-6-4	2024-6-3
antenna	SCHWARZBECK	65MHz~3GHz	2023-6-17	2024-6-16
antenna	SCHWARZBECK	9kHz~30MHz	2023-7-4	2024-7-3
antenna	ETS	1GHz~18GHz	2023-7-4	2024-7-3
antenna	ETS	26MHz~3GHz	2023-7-4	2024-7-3

5 Emission Test Results

5.1 Conducted Emissions on Mains Terminals, 150KHz to 30MHz

Test Requirement:	EN 61326-1
Test Method:	CISPR 11
Frequency Range:	150KHz to 30MHz
Limit:	Table 4
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-peak & average if maximised peak within 6dB of average limit (150kHz-30MHz)

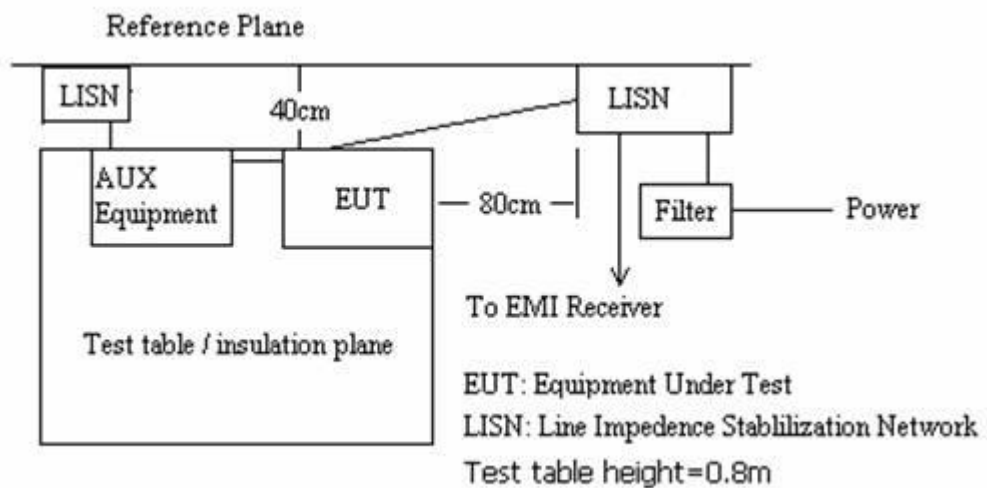
5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 52 % RH Atmospheric Pressure: 1013 mbar

EUT Operation: Test the EUT in working normally mode.

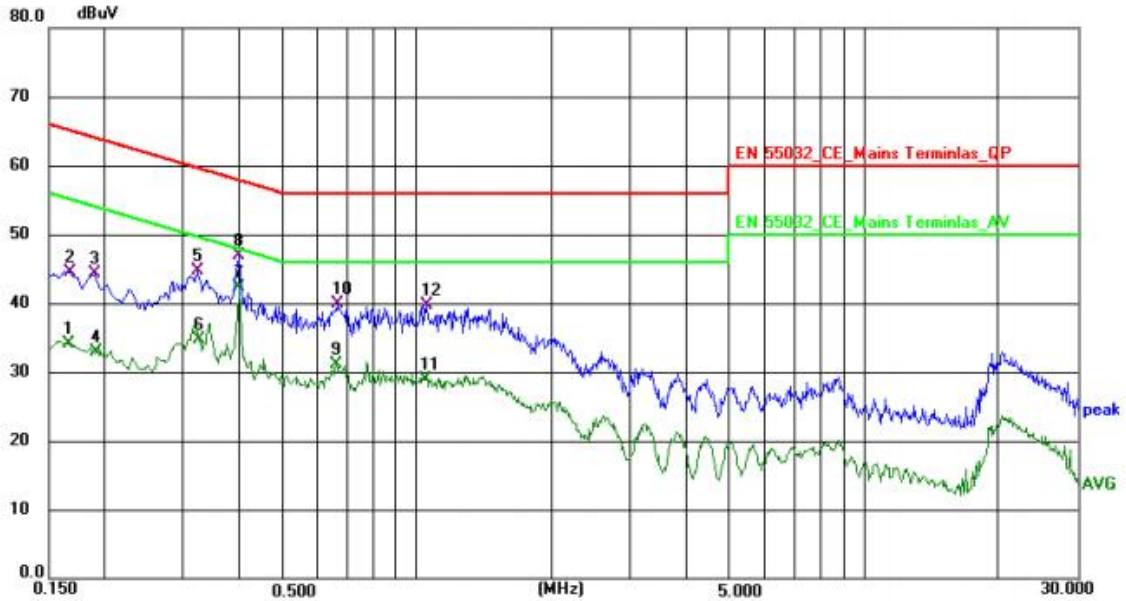
5.1.2 Plan View of Test Setup



5.1.3 Measurement Data

Live Line:

Level (dBμV)

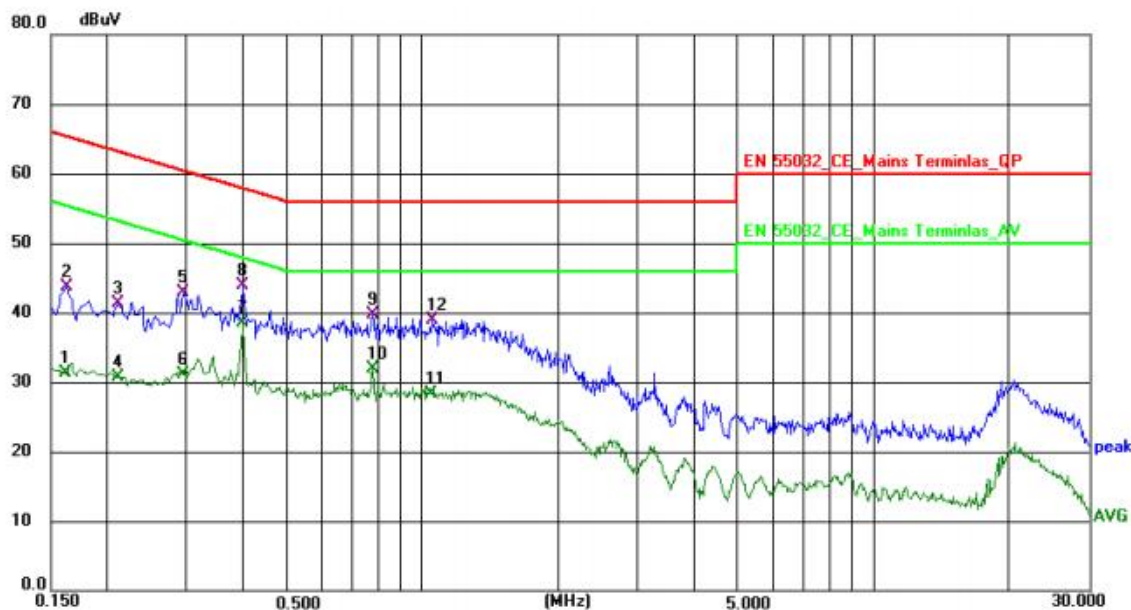


Quasi-peak measurement

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Detector	P/F	Remark
1	0.1659	24.12	9.94	34.06	55.16	-21.10	AVG	P	
2	0.1660	34.49	9.94	44.43	65.16	-20.73	QP	P	
3	0.1900	34.33	9.95	44.28	64.04	-19.76	QP	P	
4	0.1914	22.97	9.95	32.92	53.98	-21.06	AVG	P	
5	0.3220	34.72	9.91	44.63	59.66	-15.03	QP	P	
6	0.3251	24.76	9.90	34.66	49.58	-14.92	AVG	P	
7 *	0.3976	32.72	9.63	42.35	47.90	-5.55	AVG	P	
8	0.3980	37.34	9.63	46.97	57.90	-10.93	QP	P	
9	0.6580	21.62	9.53	31.15	46.00	-14.85	AVG	P	
10	0.6620	30.47	9.52	39.99	56.00	-16.01	QP	P	
11	1.0460	19.43	9.41	28.84	46.00	-17.16	AVG	P	
12	1.0500	30.32	9.41	39.73	56.00	-16.27	QP	P	

Neutral Line

Level (dBμV)



Quasi-peak measurement

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Detector	P/F	Remark
1	0.1615	21.39	9.83	31.22	55.39	-24.17	AVG	P	
2	0.1620	33.85	9.84	43.69	65.36	-21.67	QP	P	
3	0.2100	31.32	10.02	41.34	63.21	-21.87	QP	P	
4	0.2100	20.66	10.02	30.68	53.21	-22.53	AVG	P	
5	0.2940	33.01	9.80	42.81	60.41	-17.60	QP	P	
6	0.2940	21.26	9.80	31.06	50.41	-19.35	AVG	P	
7 *	0.3976	28.88	9.56	38.44	47.90	-9.46	AVG	P	
8	0.3980	34.39	9.55	43.94	57.90	-13.96	QP	P	
9	0.7780	30.01	9.71	39.72	56.00	-16.28	QP	P	
10	0.7780	22.24	9.71	31.95	46.00	-14.05	AVG	P	
11	1.0460	18.89	9.50	28.39	46.00	-17.61	AVG	P	
12	1.0500	29.32	9.50	38.82	56.00	-17.18	QP	P	

5.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	EN 61326-1
Test Method:	CISPR 11
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	Table 7
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

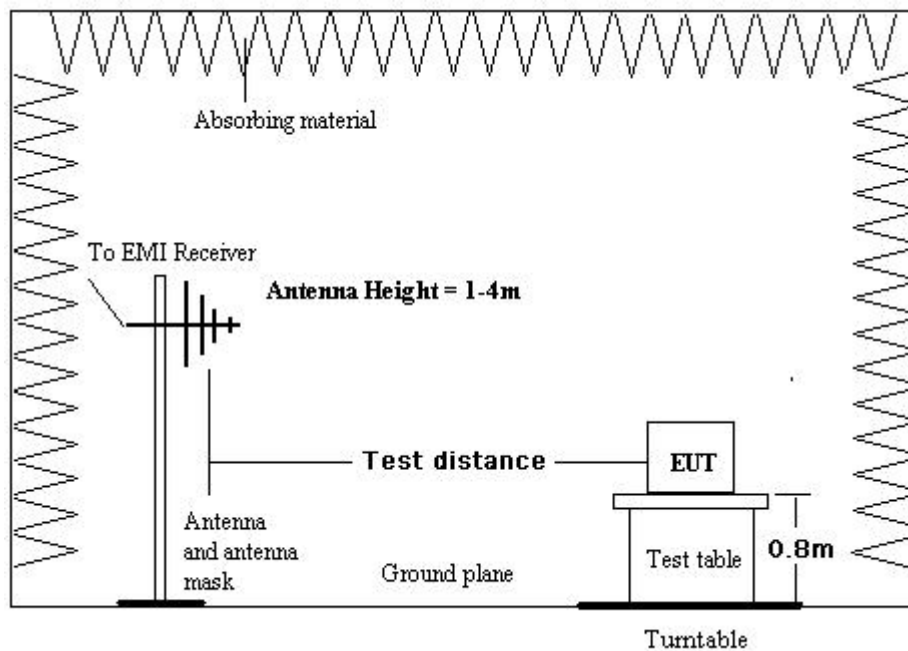
5.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 50 % RH Atmospheric Pressure: 1013 mbar

EUT Operation: Test the EUT in working normally mode.

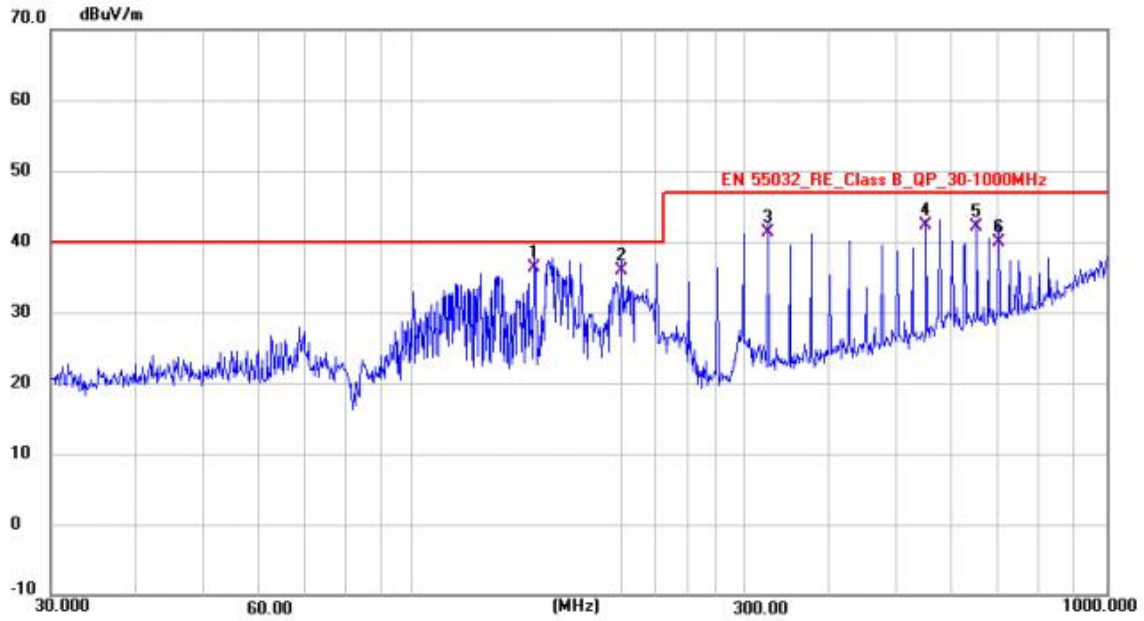
5.2.2 Test Setup



5.2.3 Measurement Data

Vertical:

Peak scan

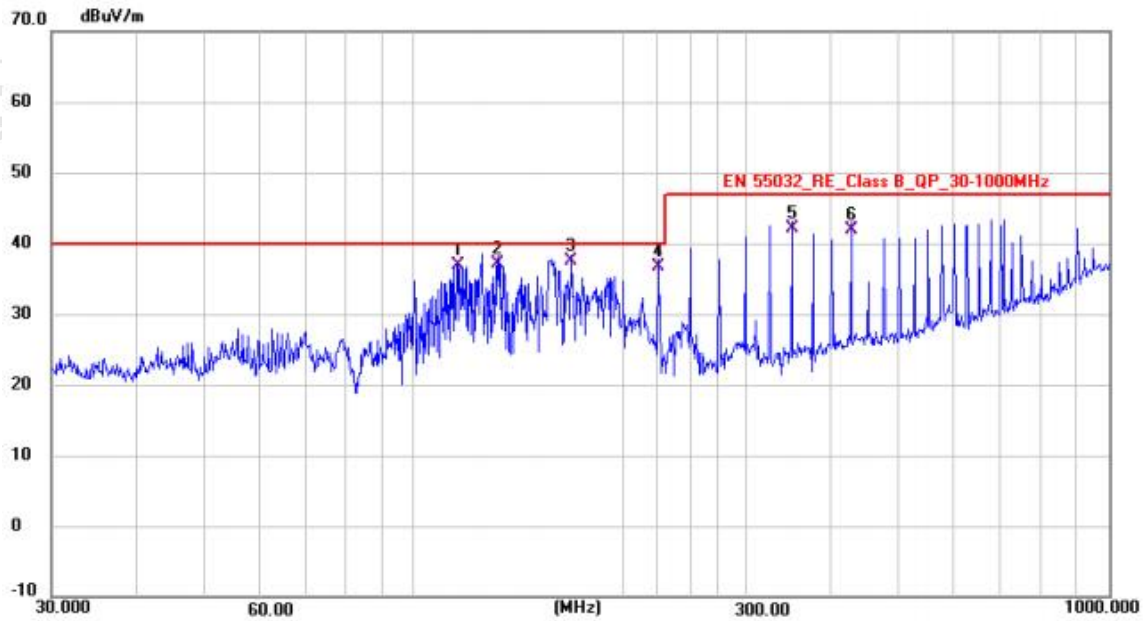


Quasi-peak measurement

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	149.9450	23.17	13.04	36.21	40.00	-3.79	QP			P	
2	200.0732	25.98	10.02	36.00	40.00	-4.00	QP			P	
3	325.1680	26.95	14.29	41.24	47.00	-5.76	QP			P	
4	550.2239	22.81	19.50	42.31	47.00	-4.69	QP			P	
5	650.2294	20.77	21.33	42.10	47.00	-4.90	QP			P	
6	700.2246	18.03	21.97	40.00	47.00	-7.00	QP			P	

Horizontal:

Peak scan



Quasi-peak measurement

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	115.3204	25.95	11.03	36.98	40.00	-3.02	QP			P	
2	132.2204	24.83	12.29	37.12	40.00	-2.88	QP			P	
3 *	168.0450	25.07	12.47	37.54	40.00	-2.46	QP			P	
4	225.0115	25.73	11.05	36.78	40.00	-3.22	QP			P	
5	350.0162	27.18	14.93	42.11	47.00	-4.89	QP			P	
6	425.0280	25.28	16.72	42.00	47.00	-5.00	QP			P	



5.3 Harmonics Test Results

Test Requirement: EN 61326-1
Test Method: IEC 61000-3-2
Frequency range: 100Hz to 2kHz
Measurement Time: 3 min
Class/Severity: Class A
Detector: As per IEC 61000-3-2

There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with IEC 61000-3-2

For further details, please refer to Clause 7, Note 1 of IEC 61000-3-2 which states:

“For the following categories of equipment limits are not specified in this edition of the standard.

Note 1: Equipment with a rated power of 75W or less, other than lighting equipment.”





5.4 Flicker Test Result

Test Requirement: EN 61326-1
Test Method: IEC 61000-3-3
Measurement Time: 10 mins
Class / Severity: Clause 5
Detector: As per IEC 61000-3-3

5.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.0 °C Humidity: 52 % RH Atmospheric Pressure: 1012 mbar
EUT Operation: Test the EUT in working normally mode.

5.4.2 Measurement Data

Flicker Test Summary per EN/IEC61000-3-3

Test Result: Pass Status: Test Completed

Results of maximum flicker :

	EUT values	Limit	Result
Pst	0.035	1.00	PASS
Plt	0.035	0.65	PASS
dc [%]	0.142	3.30	PASS
dmax [%]	0.150	4.00	PASS
dt [s]	0.000	0.50	PASS





6 Immunity Test Results

6.1 Performance Criteria Description in Clause 6 of EN 61326-1

Criterion A:

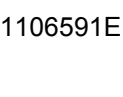
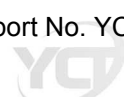
The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Criterion B:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. 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 from what the user may reasonably expect from the apparatus if used as intended.

Criterion C:

Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.



6.2 ESD

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-2
Criterion Required: B
Discharge Impedance: 330 Ω / 150 pF
Discharge Voltage: Air Discharge: 2, 4, 8 kV
Contact Discharge: 2, 4 kV
VCP: 2, 4 kV
Polarity: Positive & Negative
Number of Discharge: Minimum 10 times at each test point
Discharge Mode: Single Discharge
Discharge Period: 1 second minimum

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0 °C Humidity: 52 % RH Atmospheric Pressure: 1013 mbar

EUT Operation: Test the EUT in working normally mode.

6.2.2 Test Results

Direct Application Test Results

Observations: Test Point:
1. All insulated enclosure & seams.
2. All accessible metal parts of the enclosure.

Direct Application			Test	Results
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
2, 4, 8	+/-	1	N/A	A
2, 4	+/-	2	A	N/A

Indirect Application Test Results

Observations: Test Point: 1. All sides.

Indirect Application			Test	Results
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling
2, 4	+/-	1	N/A	A

Results:

A: No degradation in the performance of the EUT was observed.

N/A: Not applicable (floor mounted EUT)



6.3 Radiated Immunity

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-3
Criterion required: A
Frequency Range: 80MHz to 2.7GHz
Antenna Polarization: Horizontal & Vertical
Severity: 3V/m 80%, 1kHz Amplitude Modulated

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 50 % RH Atmospheric Pressure: 1013 mbar
EUT Operation: Test the EUT in working normally mode.

6.3.2 Test Results

Frequency	Level	Modulation	EUT Face	Result / Observations
80MHz-1GHz	3V/m	1kHz, 80% Amp. Mod, 1% increment	0°V	A
			0°H	
1.4GHz-2GHz	3V/m		90°V	A
			90°H	
2GHz-2.7Ghz	1V/m		180°V	A
			180°H	
			270°V	A
			270°H	

Remarks:

A: No degradation in the performance of the E.U.T. was observed.





6.4 Electrical Fast Transients (EFT)

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-4
Criterion Required: B
Test Level: 0.5, 1.0kV on AC
Polarity: Positive & Negative
Repetition Frequency: 5kHz
Burst Duration: 300ms
Test Duration: 2 minute per level & polarity

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C Humidity: 51 % RH Atmospheric Pressure: 1013 mbar

EUT Operation: Test the EUT in working normally mode.

6.4.2 Test Results:

AC Supply

Lead under Test	Level (±kV)	Coupling Direct/Clamp	EUT operating mode	Observations (Performance Criterion)
Live	±1.0	Direct	Cooking and standby	No loss of function. (A)
Neutral	±1.0	Direct	Cooking and standby	No loss of function. (A)
Live & Neutral	±1.0	Direct	Cooking and standby	No loss of function. (A)





6.5 Surge

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-5
Criterion required:: B
Test Level: $\pm 1.0\text{kV}$ Live to Neutral, $\pm 2.0\text{ kV}$ Live & Neutral to Earth
Polarity: Positive & Negative
Generator source impedance: 2Ω
Trigger Mode: Internal
No. of surges: 5 positive, 5 negative at 90° , 270° .

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0°C Humidity: 51 % RH Atmospheric Pressure: 1016 mbar

EUT Operation: Test the EUT in working normally mode.

6.5.2 Test Results :

Pulse No	Line-Line	Level (kV)	Surge Interval	Phase (deg)	Observation (Performance Criterion)
1-5	L-N	+1	60s	90°	No loss of performance (A)
6-10	L-N	-1	60s	270°	(A)





6.6 Conducted Immunity 0.15MHz to 80MHz

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-6
Criterion Required: A
Frequency Range: 0.15MHz to 80MHz
Test level: 3V rms on AC Ports (unmodulated emf into 150 Ω)
Modulation: 80%, 1kHz Amplitude Modulation

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C Humidity: 52 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: Test the EUT in working normally mode.

6.6.2 Test Results:

Frequency	Line	Test Level	Modulation	Step Size	Dwell Time	Observation (Performance Criterion)
150kHz to 80MHz	2 Wire AC Supply Cable	3Vrms	80%, 1kHz Amp. Mod.	1%	1s	No Loss of Function (A)





6.7 Voltage Dips and Interruptions

Test Requirement: EN 61326-1
Test Method: IEC 61000-4-11
Criterion Required: C
Test Level: 0% of U_T (Supply Voltage) for 0.5 Periods
40 % of U_T (Supply Voltage) for 10 Periods
70 % of U_T (Supply Voltage) for 25 Periods
No. of Dips / Interruptions: 3 per Level

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 51 % RH Atmospheric Pressure: 1009 mbar

EUT Operation: Test the EUT in working normally mode.

6.7.2 Test Results:

EUT operating modes	Test Level % U_T	Phase	Duration dropout Periods	No of dropout	Time between dropout	Observations (Performance Criterion)
Cooking and standby	0	0°	0.5	3	10s	No Loss of Function. (A)
Cooking and standby	0	180°	0.5	3	10s	No Loss of Function. (A)
Cooking and standby	40	0	10	3	10s	No Loss of Function. (A)
Cooking and standby	70	0°	25	3	10s	No Loss of Function. (A)

Remark:

Performance A: No Loss of Function.

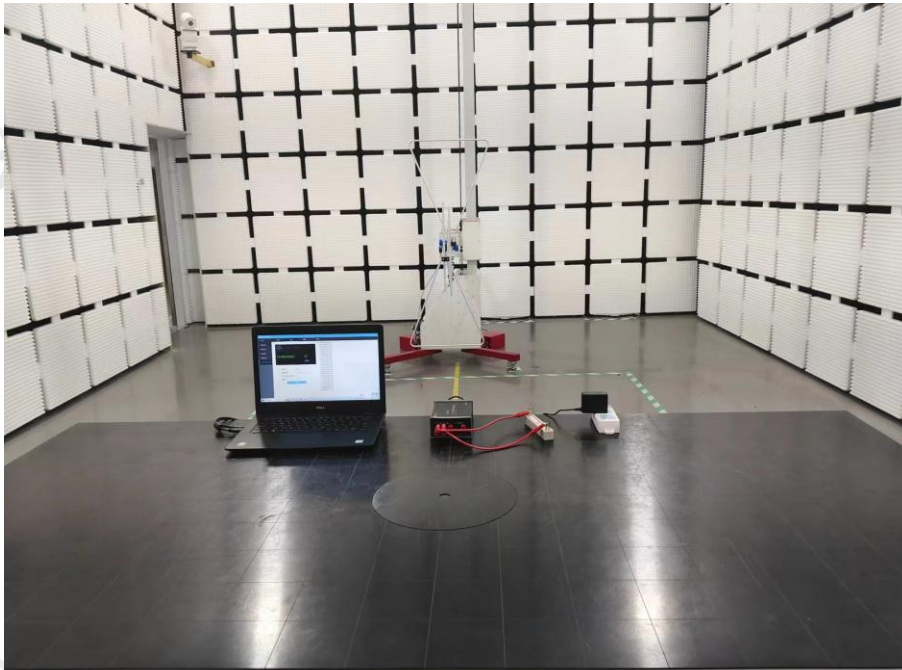


7 Photographs

7.1 Conducted Emission (150kHz to 30MHz) Test Setup



7.2 Radiated Emission (30MHz To 1GHz) Test Setup




8 EUT Constructional Details

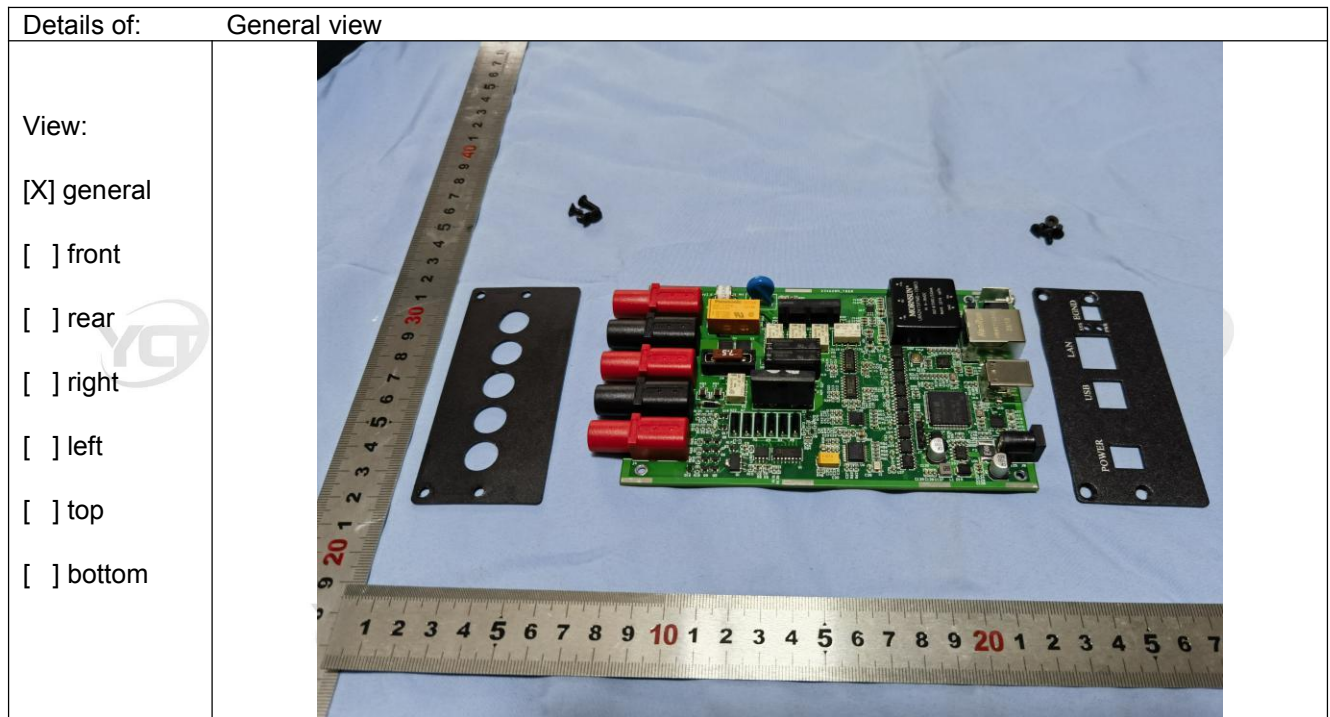


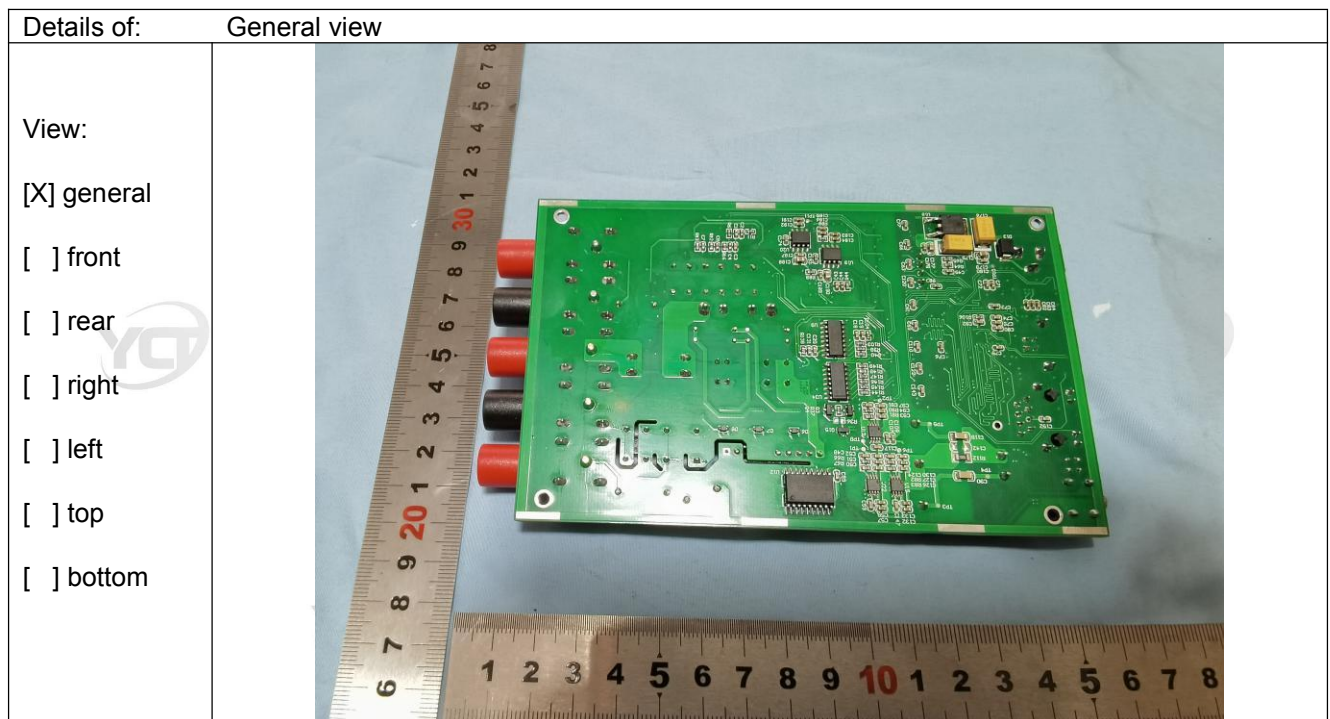
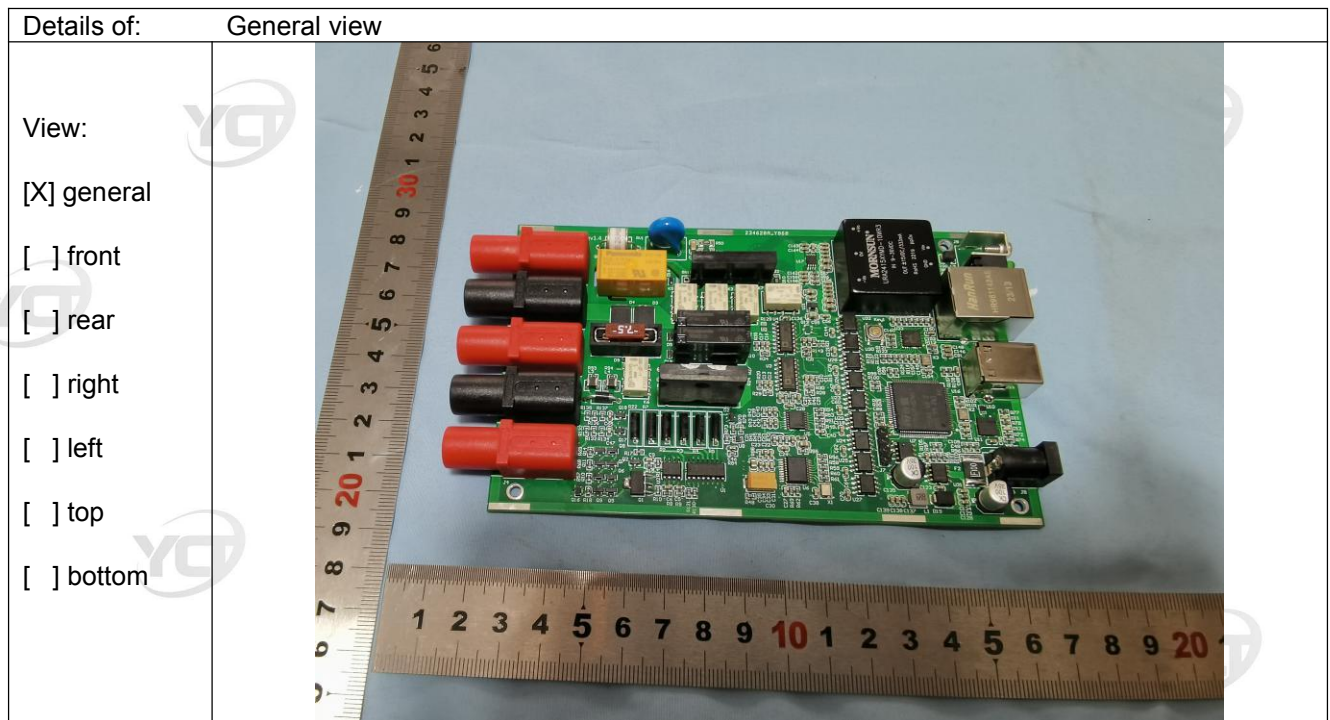
Details of:	General view
View: <input checked="" type="checkbox"/> general <input type="checkbox"/> front <input type="checkbox"/> rear <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> top <input type="checkbox"/> bottom	

Details of:	General view
View: <input checked="" type="checkbox"/> general <input type="checkbox"/> front <input type="checkbox"/> rear <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> top <input checked="" type="checkbox"/> bottom	

Details of:	General view
View: <input checked="" type="checkbox"/> general <input type="checkbox"/> front <input type="checkbox"/> rear <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> top <input type="checkbox"/> bottom	

Details of:	General view
View: <input checked="" type="checkbox"/> general <input type="checkbox"/> front <input type="checkbox"/> rear <input type="checkbox"/> right <input type="checkbox"/> left <input type="checkbox"/> top <input type="checkbox"/> bottom	







Statement

1. This test report shall be invalid if altered, added or deleted, or if it is not signed by the tested, reviewed and approved person, or if it has no YCT company stamp.
2. The sample picking, sample sending and testing procedures of our company shall be carried out in accordance with relevant national, industrial and local standards as well as our company's procedure documents and operating instructions.
3. For the sample submitted for inspection, the sample information in the test report is provided by applicant, our company is not responsible for its authenticity; the test data in the report is only responsible for the samples.
4. For on-site sampling testing, the test report only represents the measurement of items under on-site working conditions provided by the client during on-site sampling testing.
5. Any objection to this report shall be submitted to our company within 15 days after the issuance of the report, and any delay shall be deemed as recognition of this report.
6. Without the written approval of our company, the report shall not be partially copied; it shall not be used as product label, advertisement or commercial publicity.
7. "Verdict" as "P" in the report means "Pass"; "F" means "Fail"; "N/A" means that the clause "Not apply".

***** End of Report *****

