



ELECTROMAGNETIC COMPLIANCE TEST REPORT

For

4D Facial + Neck Mask

**Model: QZ041-4D01, QZ041-4D02, QZ041-4D03, QZ041-4D04, QZ041-4D05,
QZ041-4D06, QZ041-4D07, QZ041-4D08, QZ041-4D09**

Brand Name: N/A

Report No.: ENC2512269GZ94E1

Date of Issue: Jan. 2, 2026

Prepared For

Shenzhen Liyoutong Technology Co., Ltd.

**Room 201, Building 5, Baoshan Industrial Park, No. 12, Baoshan Second
Industrial Zone, Pingshan District, C, Guangdong, China**

Prepared By

East Notice Certification Service Co., Ltd.

**1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District,
Guangzhou City, China**

E-mail: enc@enc-lab.com

Web: www.enc-lab.com

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1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District, Guangzhou City
E-mail: enc@enc-lab.com [Http:// www.enc-lab.com](http://www.enc-lab.com)

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1. VERIFICATION OF CONFORMITY

Equipment Under Test:	4D Facial + Neck Mask
Model:	QZ041-4D01, QZ041-4D02, QZ041-4D03, QZ041-4D04, QZ041-4D05, QZ041-4D06, QZ041-4D07, QZ041-4D08, QZ041-4D09
Model Difference:	All models have same electrical structure as QZ041-4D01, except for the different color.
Brand Name:	N/A
Applicant:	Shenzhen Liyoutong Technology Co., Ltd.
	Room 201, Building 5, Baoshan Industrial Park, No. 12, Baoshan Second Industrial Zone, Pingshan District, C, Guangdong, China
Manufacturer:	Shenzhen Liyoutong Technology Co., Ltd.
	Room 201, Building 5, Baoshan Industrial Park, No. 12, Baoshan Second Industrial Zone, Pingshan District, C, Guangdong, China
Type of Test:	EMC Directive 2014/30/EU for CE Marking
Technical Standards:	EN IEC 55014-1:2021 EN IEC 55014-2:2021
File Number:	ENC2512269GZ94E1
Date of test:	Dec. 26, 2025 – Jan. 2, 2026
Deviation:	None
Condition of Test Sample:	Normal

The above equipment was tested for compliance with the requirements set forth in EMC Directive 2014/30/EU and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

Should any objections to the test reports occurred, should submit it to the company within ten days since the issuing of the report, Fail to accept.

The test results of this report relate only to the tested sample identified in this report.

Checked By

Yemig
Yemig Jan. 2, 2026

Authorized By



Ray Zhou Jan. 2, 2026

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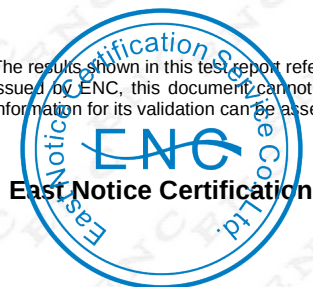
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2. TEST SUMMARY

Test	Test Method	Result
Emissions (EN IEC 55014-1:2021)		
Conducted emission, AC ports	EN IEC 55014-1:2021	N/A
Radiated Emission	EN IEC 55014-1:2021	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019+A2:2024	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A2:2021	N/A
Immunity (EN IEC 55014-2:2021)		
Electrostatic Discharge Immunity (ESD)	IEC 61000-4-2:2008	PASS
Radiated Electromagnetic Field Immunity	IEC 61000-4-3:2020	PASS
Electrical Fast Transients (EFT)	IEC 61000-4-4:2012	N/A
Surge Immunity	IEC 61000-4-5:2017	N/A
Common Mode Conducted Immunity	IEC 61000-4-6:2013	N/A
Immunity to Conducted Disturbances Induced by RF Fields	IEC 61000-4-8:2009	N/A
Voltage Dips & Short Interruption	IEC 61000-4-11:2020	N/A

N/A: Not applicable

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3. SYSTEM DESCRIPTION

EUT Test Procedure:

1. Connect EUT and peripheral devices if need.
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT operates normally during the test.

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4. PRODUCT INFORMATION

Housing Type : Plastic
Power : DC 5V, 0.8A by USB port or built-in lithium ion battery (2000mAh)

I/O Port Information (☒Applicable ☐Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
DC Port	1	1.0m USB cable	1

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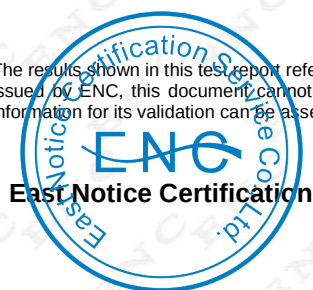
5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
--	--	--	--	--	--

****Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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6. TEST FACILITY

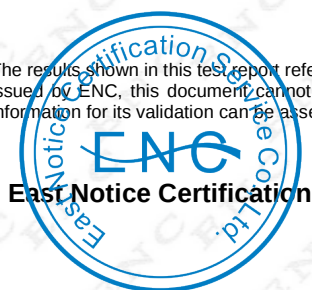
Location: 1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District, Guangzhou City, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 14/EN IEC 55014-1 requirements.

Site Filing: The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 14 requirements that meet industry regulatory agency and accreditation agency requirement.

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7. EN IEC 55014-1 RADIATED EMISSION TEST

7.1. TEST EQUIPMENT OF RADIATED EMISSION TEST

Description	Manufacturer	Model	Identifier	Last Cal.	Cal. Due
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	15/01/2025	14/01/2026
LISN	ROHDE & SCHWARZ	ESH2-Z5	860014/010	15/01/2025	14/01/2026
Limitator	ROHDE & SCHWARZ	ESH3-Z2	1004008	15/01/2025	14/01/2026
The Impedance Stability Network ISN	FISCHER CUSTOM COMMUNICATIONS, INC.	F-071115-1057-1-09	112299	15/01/2025	14/01/2026
Software	ROHDE & SCHWARZ	ES-1 V1.71	/	N/A	N/A

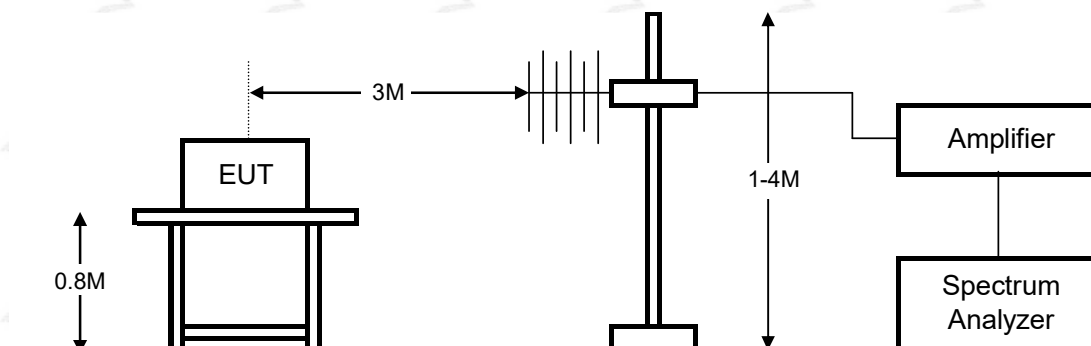
7.2. LIMITS OF RADIATED EMISSION TEST

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

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

7.3. BLOCK DIAGRAM OF TEST SETUP



Test Procedure: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

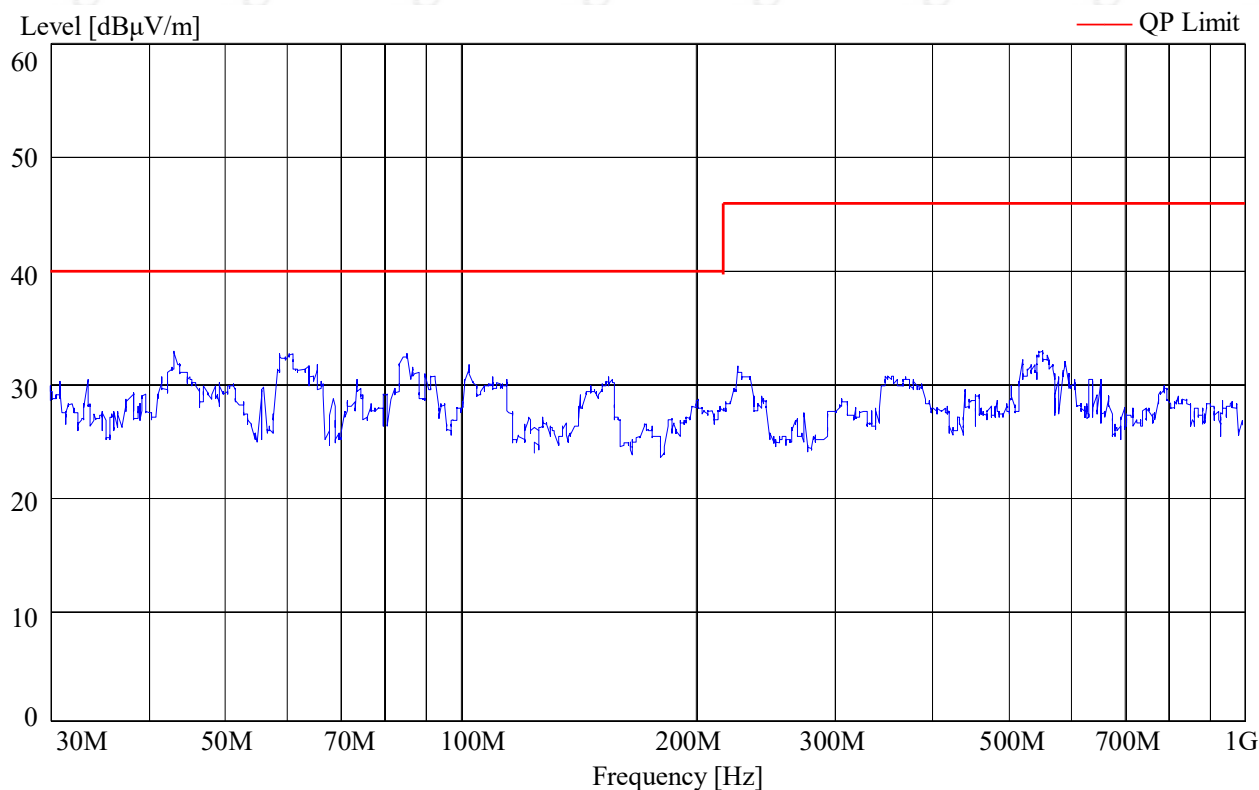
The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

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7.4. TEST RESULT OF RADIATED EMISSION TEST

Radiated Emission Measurement



Site: Site 3M

Polarization: Vertical

Limit: EN 55014 3M Radiation

Power: DC 5V

Temperature: 21°C

Humidity: 52%

EUT: 4D Facial + Neck Mask

M/N: QZ041-4D01

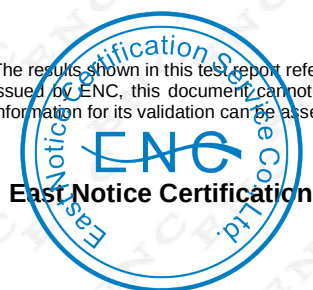
Mode: Normal

Note:

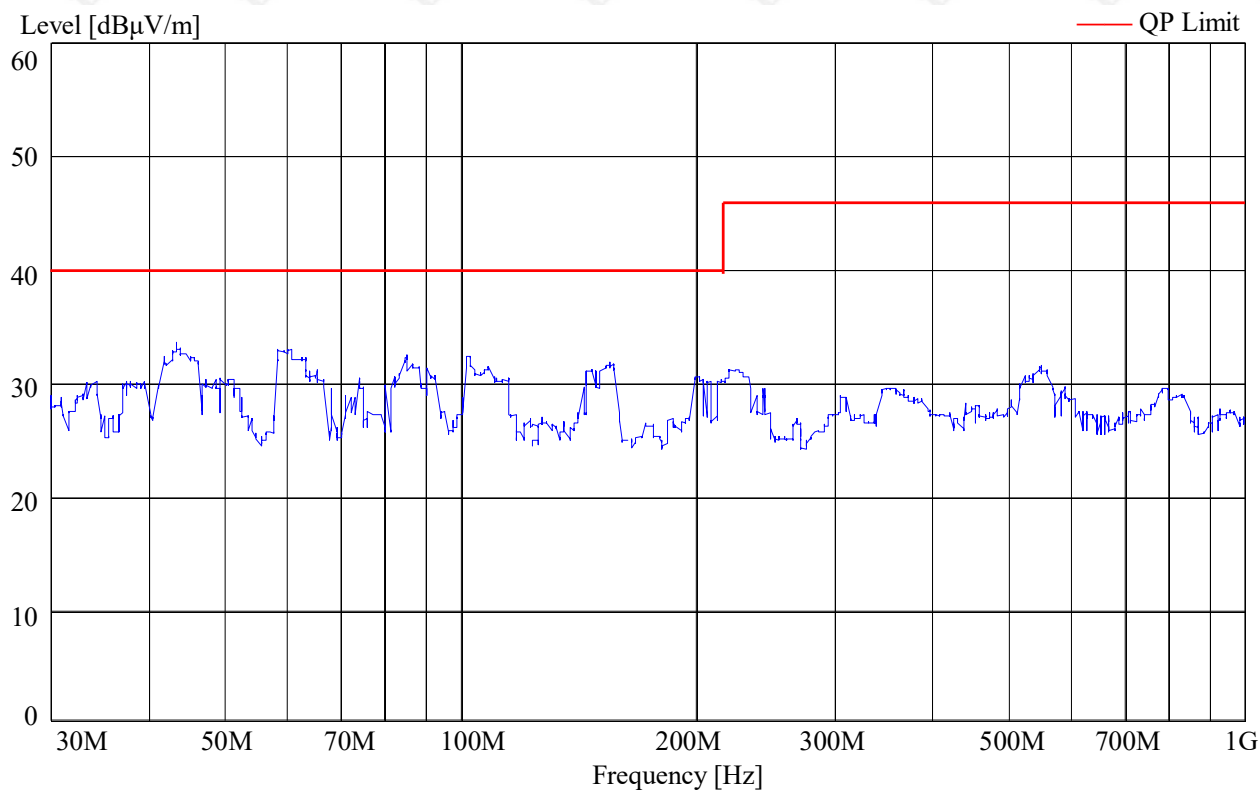
No.Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	41.745	31.05	0.12	31.17	40.00	-8.83	peak	
2	59.189	31.21	0.13	31.34	40.00	-8.66	peak	
3 *	84.057	31.32	0.14	31.46	40.00	-8.54	peak	
4	100.064	30.88	0.14	31.02	40.00	-8.98	peak	

RESULT: PASS

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Radiated Emission Measurement



Site: Site 3M

Limit: EN 55014 3M Radiation

Temperature: 21°C

EUT: 4D Facial + Neck Mask

M/N: QZ041-4D01

Mode: Normal

Note:

Polarization: Horizontal

Power: DC 5V

Humidity: 52%

No.Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree
1	42.195	31.79	0.12	31.91	40.00	-8.09	peak		
2 *	58.847	31.82	0.13	31.95	40.00	-8.05	peak		
3	83.632	31.04	0.14	31.18	40.00	-8.82	peak		
4	100.083	31.11	0.14	31.25	40.00	-8.75	peak		

RESULT: PASS

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8. IEC 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

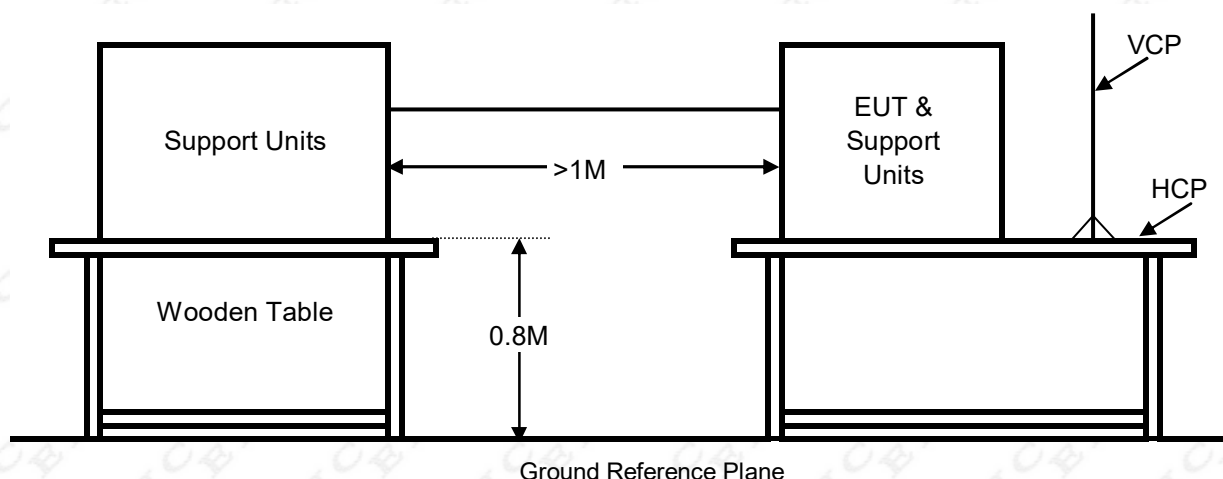
Port	: Enclosure
Basic Standard	: IEC 61000-4-2:2008
Test Level	: ± 8 kV (Air Discharge) ± 4 kV (Contact Discharge) ± 4 kV (Indirect Discharge)
Standard require	: B
Tester	: Sam Liu
Temperature	: 21°C
Humidity	: 52%

8.1. TEST EQUIPMENT OF ESD TEST

Description	Manufacturer	Model	Identifier	Last Cal.	Cal. Due
ESD Simulator	EM-Test	EST883	N/A	15/01/2025	14/01/2026

8.2. BLOCK DIAGRAM OF TEST SETUP

(The 470 k ohm resistors are installed per standard requirement)



8.3. TEST PROCEDURE

The EUT was located 0.1 m minimum from all side of the HCP.

The support units were located 1 m minimum away from the EUT.

EUT worked with resistance load, and make sure EUT worked normally.

Activates the communication function if the EUT with such port(s).

As per the requirement of EN IEC 55014-2: Contact discharge is the preferred test method. 20 discharges (10 with positive and 10 negative polarity) shall be applied on each accessible metal part of the enclosure. In case of a non-conductive enclosure, discharges shall be applied on the horizontal or vertical coupling planes as specified in IEC 61000-4-2.

Air discharges shall be used where contact discharges cannot be applied.

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The following test condition was followed during the tests.

Note: As per the A2 to IEC 61000-4-2, a bleed resistor cable is connected between the EUT and HCP during the test.

The electrostatic discharges were applied as follows:

Amount of Discharges	Voltage	Coupling	Result (Pass/Fail)
Mini 20 /Point	±2kV; ±4kV	Contact Discharge	Pass
Mini 10 /Point	±2kV; ±4kV	Indirect Discharge HCP (Front)	Pass
Mini 10 /Point	±2kV; ±4kV	Indirect Discharge VCP (Left)	Pass
Mini 10 /Point	±2kV; ±4kV	Indirect Discharge VCP (Back)	Pass
Mini 10 /Point	±2kV; ±4kV	Indirect Discharge VCP (Right)	Pass
Mini 10 /Point	±2kV; ±4kV;±8kV;	Air Discharge	Pass

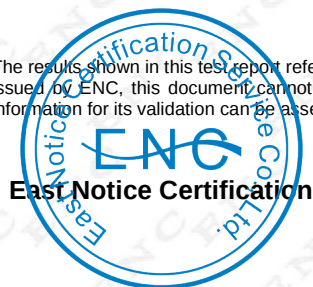
8.4. PERFORMANCE & RESULT

- ☐ Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- ☒ Criteria B: The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- ☐ Criteria C: Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

☒ **PASS**

☐ **FAIL**

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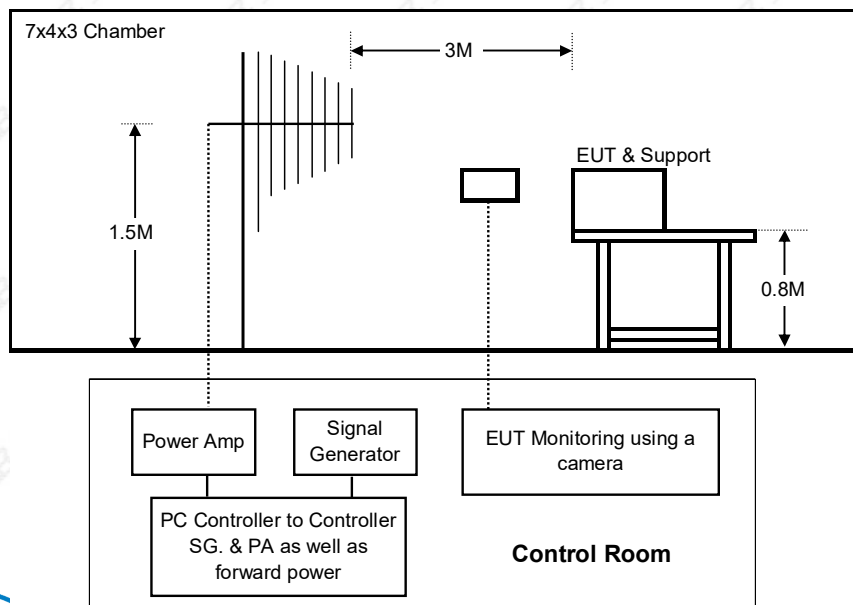
9. IEC 61000-4-3 TEST RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	: Enclosure
Basic Standard	: IEC 61000-4-3:2020
Test Level	: 3V/m with 80% AM. 1kHz Modulation.
Standard require	: A
Tester	: Sam Liu
Temperature	: 21°C
Humidity	: 52%

9.1. TEST EQUIPMENT

Description	Manufacturer	Model	Identifier	Last Cal.	Cal. Due
Signal generator	Agilent	N5181A	49060125	15/01/2025	14/01/2026
Power Amplifier	MicoTop	MPA-80-1000-250	751000	15/01/2025	14/01/2026
Power Amplifier	MicoTop	MPA-1000-6000-100	1906282	15/01/2025	14/01/2026
Power Meter	Agilent	E4419B	43317877	15/01/2025	14/01/2026
Test Antenna- Bi-Log	Schwarzbeck	VULB 9118 E	4911	15/01/2025	14/01/2026
Horn Antenna	Sunol Sciences	DRH-118	A062013	15/01/2025	14/01/2026
Power transmitter	HP	8481A	2349A43969	15/01/2025	14/01/2026
Power transmitter	Agilent	E9301A	MQ/2217182	15/01/2025	14/01/2026
Test Software	Agilent	EM 3	V1.1.7	N/A	N/A

9.2. BLOCK DIAGRAM OF TEST SETUP



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9.3. TEST PROCEDURE

The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per IEC 61000-4-3.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the testing parameters of RS test software per IEC 61000-4-3.

Performing the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 2700MHz .

Recording the test result in following table.

It is not necessary to perform test as per annex A of EN IEC 55014-2 if the EUT doesn't belong to TTE product.

IEC 61000-4-3 Final test conditions:

Test level : 3V/m
Steps : 1 % of fundamental
Dwell Time : 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Result (Pass/Fail)
80-2700	3V/m	AM	H	Front	Pass
80-2700	3V/m	AM	H	Left	Pass
80-2700	3V/m	AM	H	Back	Pass
80-2700	3V/m	AM	H	Right	Pass
80-2700	3V/m	AM	V	Front	Pass
80-2700	3V/m	AM	V	Left	Pass
80-2700	3V/m	AM	V	Back	Pass
80-2700	3V/m	AM	V	Right	Pass

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9.4. PERFORMANCE & RESULT

- ☒ Criteria A: The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
- ☐ Criteria B: The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
- ☐ Criteria C: Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

☒ **PASS**☐ **FAIL**

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APPENDIX 1 PHOTOGRAPHS OF EUT

Front View



Top View



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Side View



Back View



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Overall View-1



Overall View-2



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Overall View-3



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