

EMC Test Report

Report No.: AGC00676200401EE01

PRODUCT DESIGNATION : Body temperature measuring smart camera
BRAND NAME : KAANSKY
MODEL NAME : Y3-TB01
APPLICANT : SHENZHEN KAANSKY TECHNOLOGY CO., LTD
DATE OF ISSUE : Apr. 16, 2020
STANDARD(S) : EN 61326-1:2013
: EN 61000-6-3: 2007/A1:2011/AC:2012
: EN 50130-4:2011/A1:2014
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 16, 2020	Valid	Initial release



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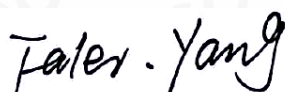
1 VERIFICATION OF CONFORMITY

Applicant	SHENZHEN KAANSKY TECHNOLOGY CO., LTD
Address	Unit2502, Building3B, Cloud Park, No.2018 Xuegang Road, Bantian, Longgang District, Shenzhen
Manufacturer	SHENZHEN KAANSKY TECHNOLOGY CO., LTD
Address	Unit2502, Building3B, Cloud Park, No.2018 Xuegang Road, Bantian, Longgang District, Shenzhen
Factory	SHENZHEN KAANSKY TECHNOLOGY CO., LTD
Address	Unit2502, Building3B, Cloud Park, No.2018 Xuegang Road, Bantian, Longgang District, Shenzhen
Product Designation	Body temperature measuring smart camera
Brand Name	KAANSKY
Test Model	Y3-TB01
Date of test	Apr. 09, 2020 to Apr. 16, 2020
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-61000/DC(2013-03-01)

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in 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.

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

Prepared By



Faler Yang(Yang Feiyue)
Project Engineer

Apr. 16, 2020

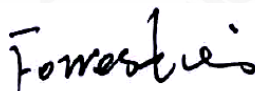
Reviewed By



Erik Yang(Yang Jianmin)
Reviewer

Apr. 16, 2020

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer

Apr. 16, 2020

2 SYSTEM DESCRIPTION

NO.	TEST MODE DESCRIPTION	WORST
1	Realtime Video & Temperature	V
Note: 1. V means EMI worst mode.		

3 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission, $U_c = \pm 3.1 \text{ dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 4.0 \text{ dB}$



4 PRODUCT INFORMATION

Housing Type	Plastic and metal
EUT Input Rating	DC5V

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

I/O Port of EUT			
I/O Port Type	Number	Cable Description	Tested With
Micro-B	1	0.25m Unshielded	1
LAN	1	0.25m Unshielded	1



Attestation of Global Compliance

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Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline: 400 089 2118

5 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Adapter	--	JS-042250	--	--	1.2m Unshielded

Note:

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



6 TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

7 TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
8-Wire ISN CAT 5	Schwarzbeck	CAT5 8158	#158	Dec. 12, 2019	Dec.11, 2020
8-Wire ISN CAT 6	Schwarzbeck	NTFM 8158	#131	Dec. 12, 2019	Dec.11, 2020
Test software	R&S	ES-K1(Ver.V1.7.1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.12, 2019	Jun. 11, 2020
Antenna	SCHWARZBEC K	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver. 2.5)	N/A	N/A	N/A
Test software	FARA	EZ_EMC (Ver.RA-03A)	N/A	N/A	N/A

TEST EQUIPMENT OF POWER HARMONICS / VOLTAGE FLUCTUATION / FLICKER

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Conditioning Unit	Schaffner	CCN1000-1	72431	Aug. 26, 2019	Aug. 25, 2020
AC Source	Schaffner	NSG1007	56825	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF SURGE/EFT/DIPSTEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
EFTSurge Generator	Schaffner	Modula 6150	34437	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	EM Test	dito	P1527160053	Oct. 24, 2019	Oct. 23, 2020

TEST EQUIPMENT OF RS IMMUNITY TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020
Power Sensor	R&S	URV5-Z4	100124	May 17, 2019	May 16, 2020
Power Meter	R&S	NRVD	8323781027	May 17, 2019	May 16, 2020
Power Amplifier	KALMUS	7100LC	04-02/17-06-00 1	Jun.12, 2019	Jun.11, 2020
Power Amplifier	Milmega	AS0104-55_55	1004793	Jun.12, 2019	Jun.11, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Antenna	SCHWARZBEC K	VULB9168	D69250	Jan. 09, 2019	Jan. 08, 2021

TEST EQUIPMENT OF CS IMMUNITY TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Amplifier	AR	75A250	18464	Jun. 12, 2019	Jun. 11, 2020
CDN	ZHINAN	ZN3751	15004	Sep. 09, 2019	Sep. 08, 2020
6dB attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Power Sensor	R&S	URV5-Z4	100124	May 17, 2019	May 16, 2020
Power Meter	R&S	NRVD	8323781027	May 17, 2019	May 16, 2020
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020



8 TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 61326-1	CISPR 11	Class B Group1	Pass
RADIATED EMISSION	EN 61326-1	CISPR 11	Class B Group1	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	Pass
Electrostatic Discharge Immunity	EN 61326-1	EN 61000-4-2	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 61326-1	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation at 80-1000MHz 3V/m with 80% AM. 1kHz Modulation at 1400-2000MHz 1V/m with 80% AM. 1kHz Modulation at 2000-2700MHz	Pass
Electrical fast transient/burst Immunity-AC Power port	EN 61326-1	EN 61000-4-4	+/- 1kV for Power Supply Lines	Pass
Electrical fast transient/burst Immunity-- Signal Port	EN 61326-1	EN 61000-4-4	+/- 0.5kV	Pass
Surge immunity-AC Power port	EN 61326-1	EN 61000-4-5	+/- 0.5kV (Line to Line) +/- 1kV (Line to Ground)	Pass
Surge immunity-Signal Port	EN 61326-1	EN 61000-4-5	+/- 1kV	Pass
Immunity to Conducted Disturbances Induced by RF fields	EN 61326-1	EN 61000-4-6	3V with 80% AM. 1 kHz Modulation for AC power 1V with 80% AM. 1 kHz Modulation for Signal port	Pass
Power Frequency Magnetic Fields	EN 61326-1	EN 61000-4-8	50/60 Hz, 3A/m	N/A
Voltage dips and short interruptions immunity	EN 61326-1	EN 61000-4-11	PHASE ANGLE 0 degrees	Pass

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 61000-6-3	EN 61000-6-3	Class B	Pass
RADIATED EMISSION	EN 61000-6-3	EN 61000-6-3	Class B	Pass
Electrostatic Discharge Immunity	EN50130-4	EN 61000-4-2	±2,4, 8.0 kV (Air Discharge) ±6.0 kV (Contact Discharge)	Pass

			±2,4, 6.0 kV (Indirect Discharge)	
Radiated RF Electromagnetic	EN50130-4	EN 61000-4-3	10V/m with 80% AM. 1kHz Modulation And Pulse modulation(1Hz 0.5s on, 0.5s off)	Pass
Electrical fast transient/burst Immunity	EN50130-4	EN 61000-4-4	+/- 2kV for Power Supply Lines +/- 1kV for Signal lines	Pass
SURGE IMMUNITY	EN50130-4	EN 61000-4-5	+/- 0.5kV, 1kV for AC port +/- 0.5kV, 1kV for Signal lines	Pass
Immunity to Conducted Disturbances Induced by RF fields	EN50130-4	EN 61000-4-6	10V with 80% AM. 1 kHz Modulation And Pulse modulation(1Hz 0.5s on, 0.5s off)	Pass
Voltage dips and short interruptions immunity	EN50130-4	EN 61000-4-11	PHASE ANGLE 0 degrees	Pass

Note :

1. N/A means not applicable.
2. The standard is done according to the customer's requirements, the wireless part does not consider the scope.

9 EN 61000-6-3/EN 61326-1 LINE CONDUCTED EMISSION TEST

9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

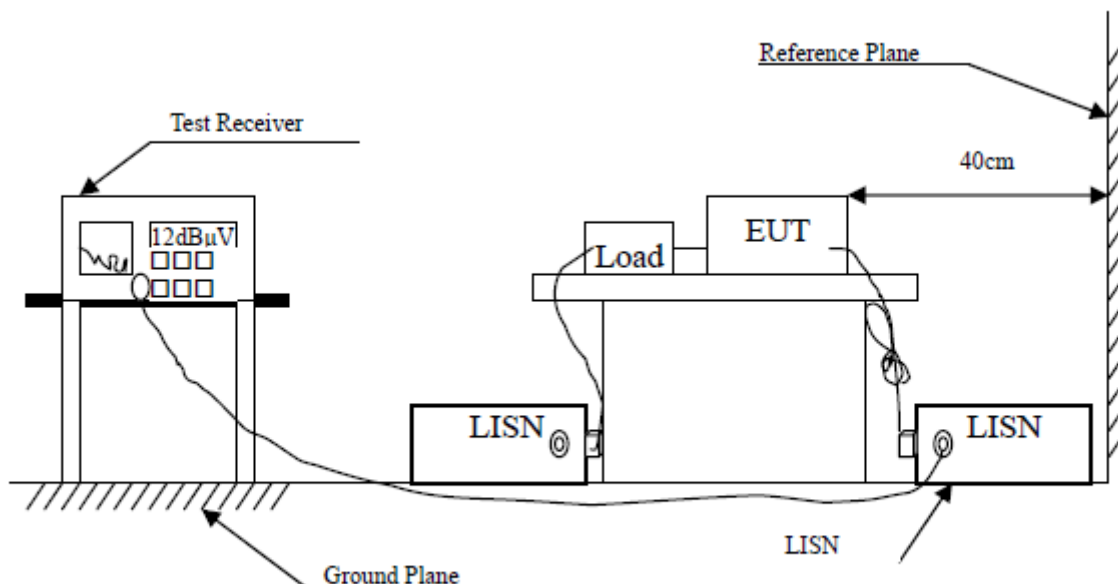
Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

AT telecommunication PORT

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	84-74	74-64
500kHz-30MHz	74	64

9.2. BLOCK DIAGRAM OF TEST SETUP



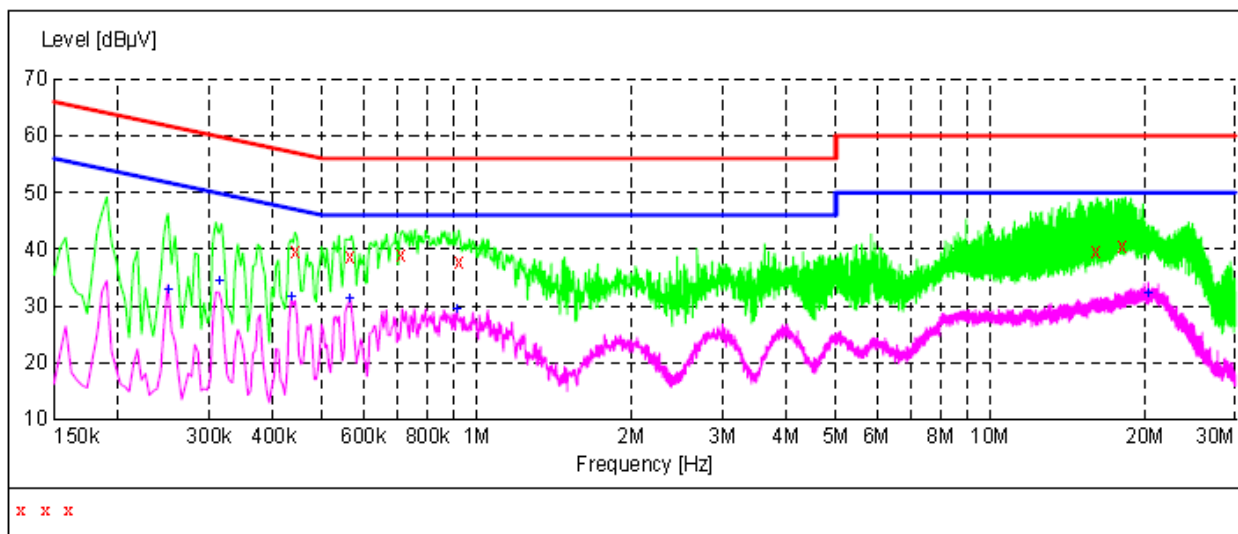
9.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN 61326-1&EN 61000-6-3 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 61326-1&EN 61000-6-3.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 61326-1&EN 61000-6-3.
- (4) The EUT received DC 5V power from adapter which received AC 230V/50Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane..
- (5) All support equipments received power from a second LISN supplying power of AC 230V/50Hz, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- (8) During the above scans, the emissions were maximized by cable manipulation.
- (9) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (10) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



9.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT:

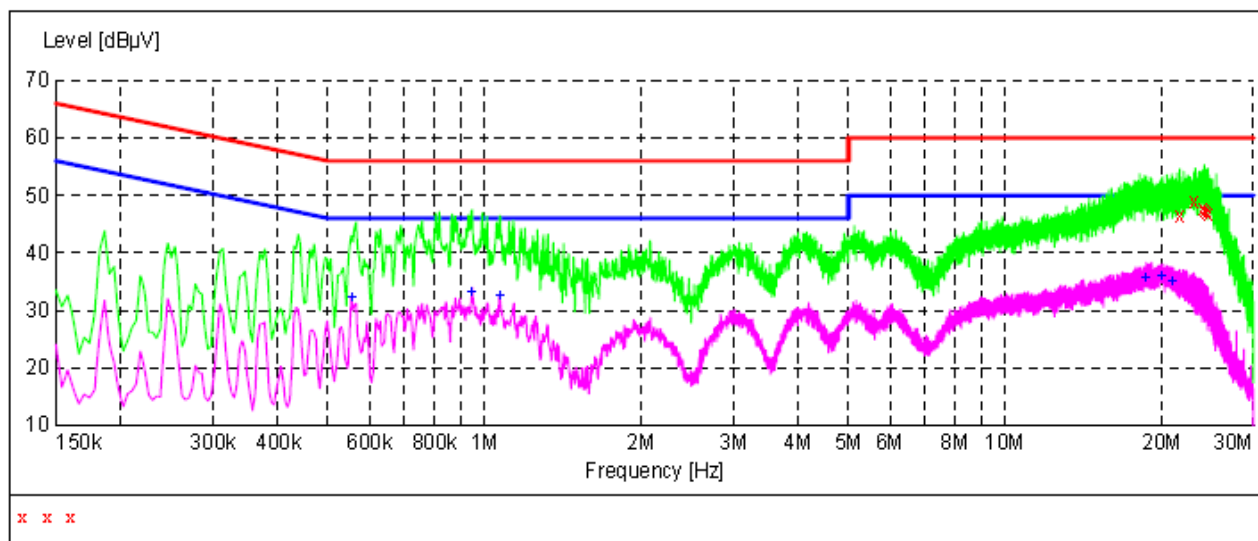
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.442000	39.60	11.3	57	17.4	QP	L1	FLO
0.566000	38.70	11.3	56	17.3	QP	L1	FLO
0.714000	39.00	11.3	56	17.0	QP	L1	FLO
0.922000	37.90	11.3	56	18.1	QP	L1	FLO
16.098000	39.50	12.0	60	20.5	QP	L1	FLO
18.046000	40.50	12.2	60	19.5	QP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.250000	32.80	11.3	52	19.0	AV	L1	FLO
0.314000	34.20	11.3	50	15.7	AV	L1	FLO
0.434000	31.40	11.3	47	15.8	AV	L1	FLO
0.566000	31.20	11.3	46	14.8	AV	L1	FLO
0.914000	29.20	11.3	46	16.8	AV	L1	FLO
20.298000	32.20	12.3	50	17.8	AV	L1	FLO

RESULT: PASS

LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

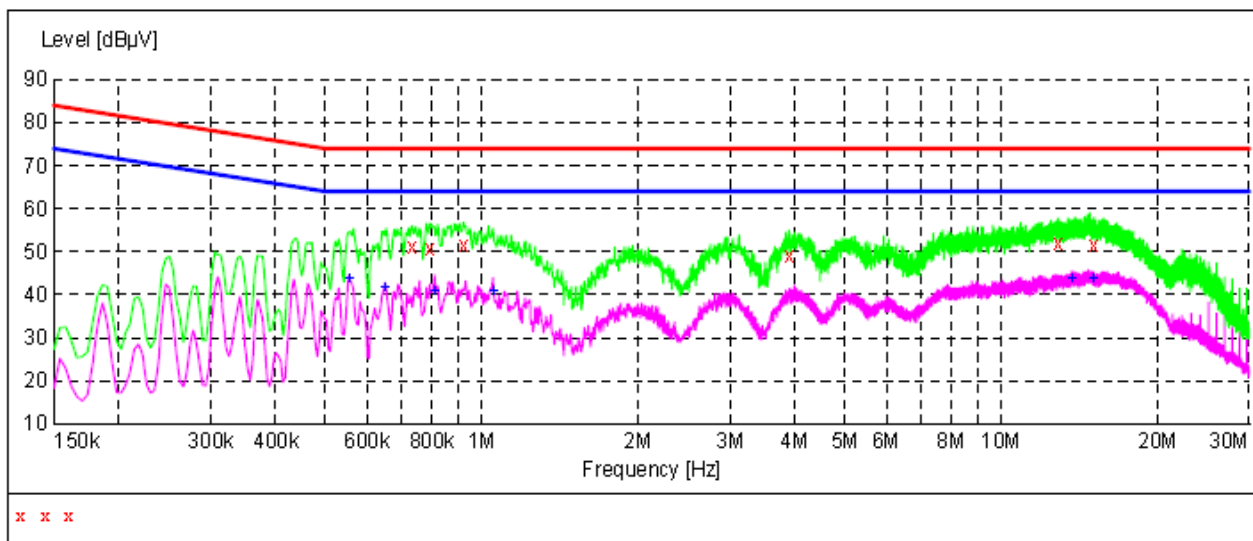
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
21.670000	46.60	12.4	60	13.4	QP	N	FLO
23.186000	49.00	12.4	60	11.0	QP	N	FLO
24.014000	47.60	12.5	60	12.4	QP	N	FLO
24.134000	47.30	12.5	60	12.7	QP	N	FLO
24.302000	47.10	12.5	60	12.9	QP	N	FLO
24.526000	46.80	12.5	60	13.2	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.554000	32.10	11.3	46	13.9	AV	N	FLO
0.946000	33.10	11.3	46	12.9	AV	N	FLO
1.066000	32.60	11.3	46	13.4	AV	N	FLO
18.674000	35.60	12.2	50	14.4	AV	N	FLO
19.998000	35.80	12.3	50	14.2	AV	N	FLO
20.890000	35.10	12.3	50	14.9	AV	N	FLO

RESULT: PASS

AT TELECOMMUNICATION PORT



MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.734000	51.20	11.3	74	22.8	QP	LAN
0.798000	50.80	11.3	74	23.2	QP	LAN
0.922000	51.60	11.3	74	22.4	QP	LAN
3.898000	49.00	11.4	74	25.0	QP	LAN
12.870000	52.00	11.8	74	22.0	QP	LAN
15.082000	51.60	11.9	74	22.4	QP	LAN

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.554000	43.60	11.3	64	20.4	AV	LAN
0.650000	41.60	11.3	64	22.4	AV	LAN
0.810000	40.70	11.3	64	23.3	AV	LAN
1.050000	40.60	11.3	64	23.4	AV	LAN
13.666000	43.60	11.9	64	20.4	AV	LAN
14.994000	43.60	11.9	64	20.4	AV	LAN

10 EN 61000-6-3/EN 61326-1 RADIATED EMISSION TEST

10.1. LIMITS OF RADIATED DISTURBANCES

Limits for radiated disturbance 30M to1 GHz at a measurement distance of 3 m

Frequency range (MHz)	Quasi peak limits(dBuV/m), for Class B ITE, at 3m measurement distance
30 - 230	40
230 - 1000	47

Limits for radiated disturbance above 1 GHz at a measurement distance of 3 m

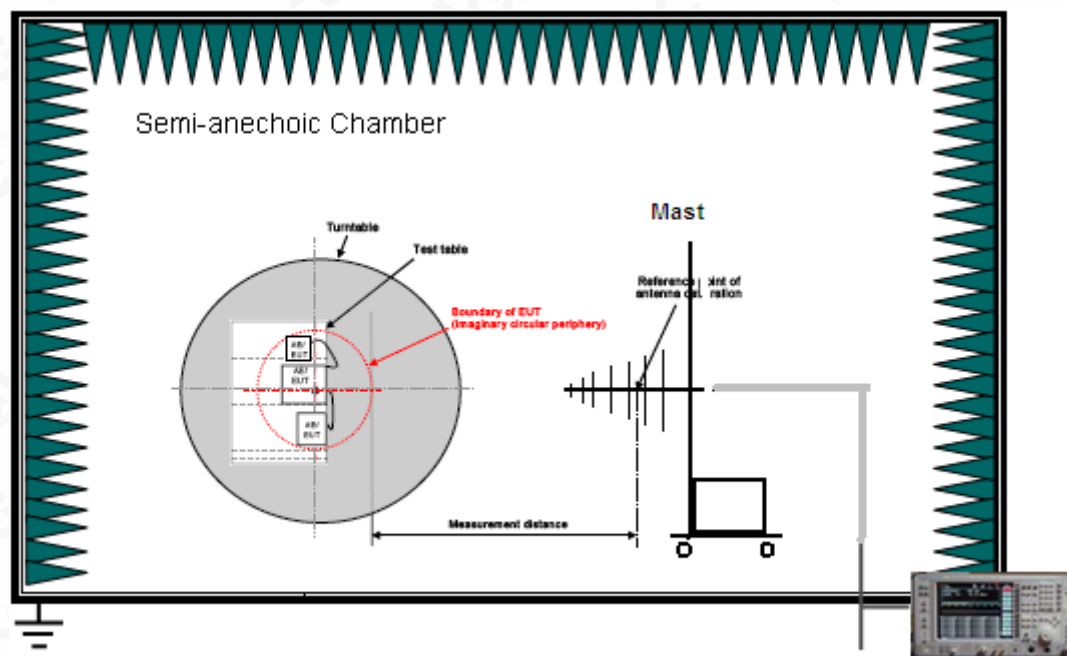
Frequency range (MHz)	Limits (dBuV/m), Class B ITE	
	Peak	Average
1000-3000	70	50
3000-6000	74	54

Notes:

1. The lower limit shall apply at the transition frequency.
2. Additional provisions may be required for cases where interference occurs.

10.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



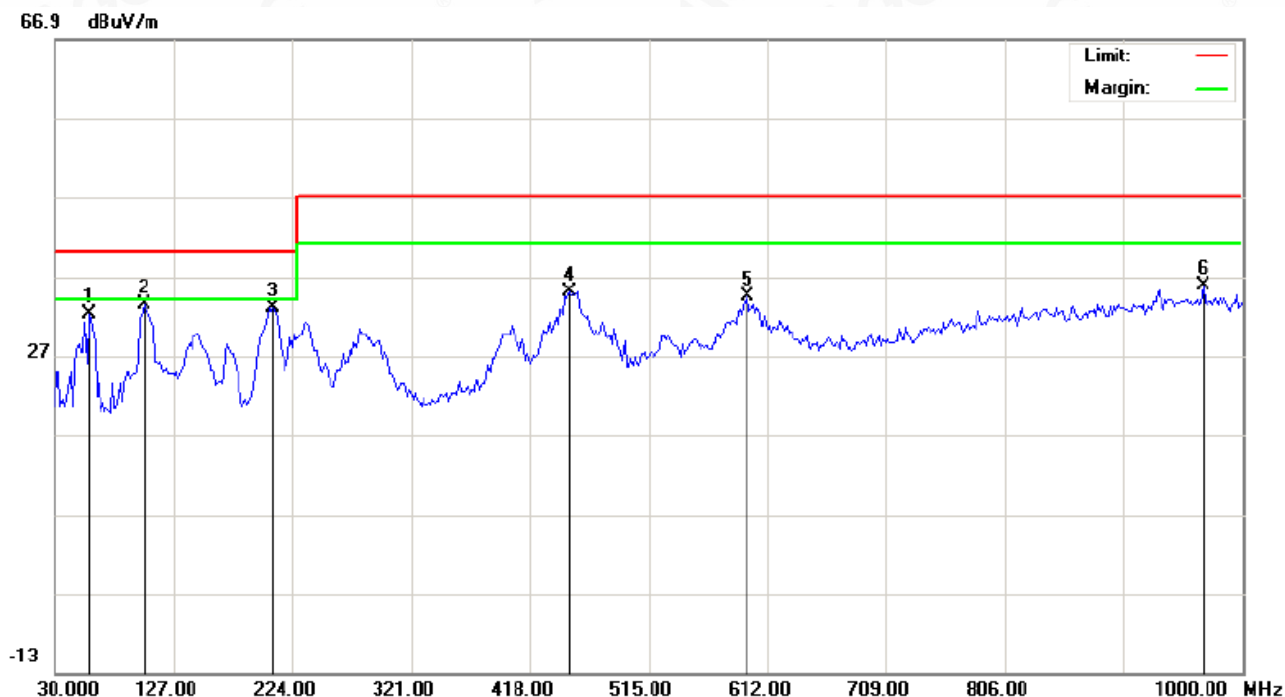
10.3. PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 61326-1&EN 61000-6-3 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 61326-1&EN 61000-6-3.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 61326-1&EN 61000-6-3.
- (4) The EUT received DC 5V power from adapter which received AC230V 50Hz power from socket under the turntable.
- (5) The antenna was placed at 3 meter away from the EUT as stated in EN61326-1&EN 61000-6-3. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test.
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.



10.4. TEST RESULT OF RADIATED EMISSION TEST

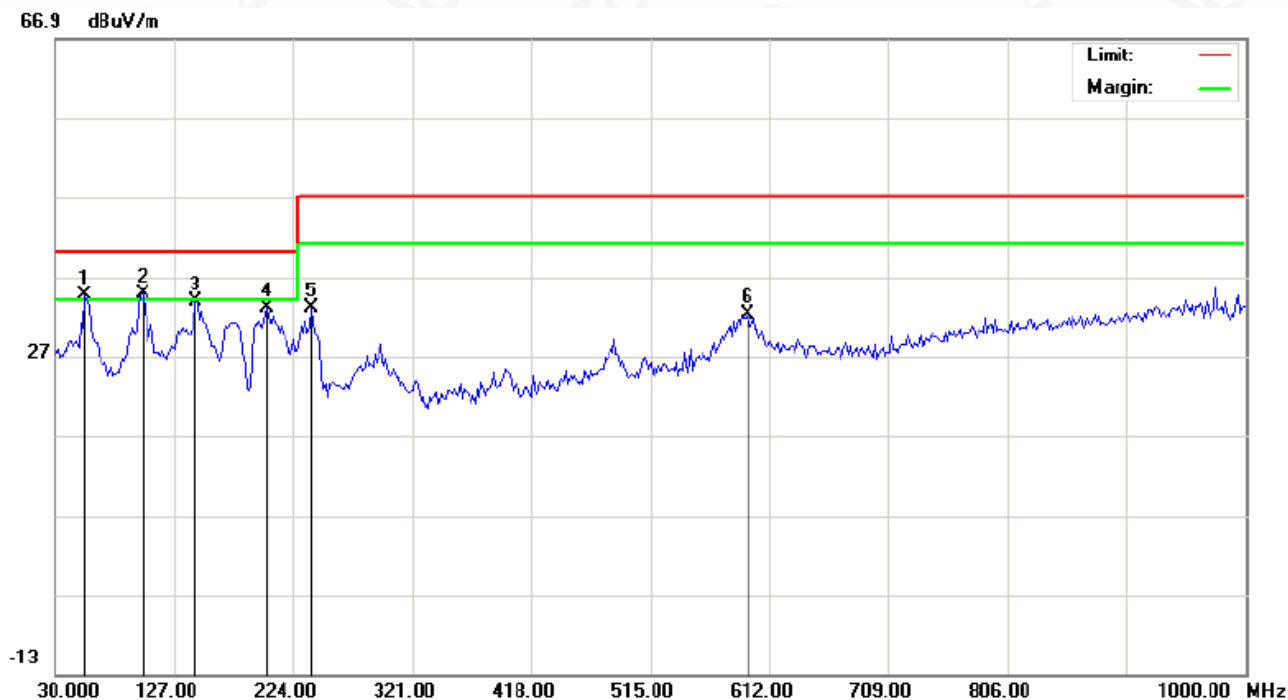
Radiated Emission Test at 3m Distance-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		57.4833	13.16	19.09	32.25	40.00	-7.75	peak			
2	*	102.7500	17.21	16.28	33.49	40.00	-6.51	peak			
3		207.8333	16.41	16.52	32.93	40.00	-7.07	peak			
4		450.3333	10.99	23.99	34.98	47.00	-12.02	peak			
5		595.8333	7.49	26.87	34.36	47.00	-12.64	peak			
6		967.6667	3.58	32.28	35.86	47.00	-11.14	peak			

RESULT: PASS

Radiated Emission Test at 3m Distance-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	54.2500	15.18	19.36	34.54	40.00	-5.46	peak			
2	*	101.1333	18.59	16.12	34.71	40.00	-5.29	peak			
3		144.7833	14.53	19.22	33.75	40.00	-6.25	peak			
4		202.9832	16.71	16.24	32.95	40.00	-7.05	peak			
5		238.5500	14.44	18.56	33.00	47.00	-14.00	peak			
6		594.2167	5.32	26.84	32.16	47.00	-14.84	peak			

RESULT: PASS



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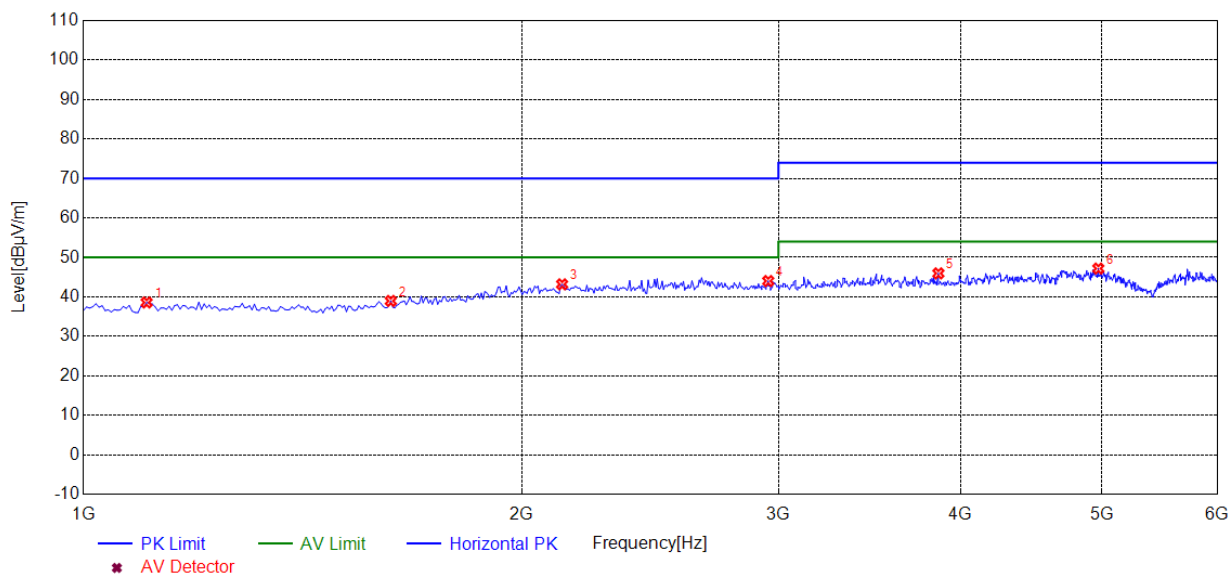
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Radiated Emission Test at 3m Distance Above 1G –Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1105.10	38.58	-16.74	70.00	31.42	100	296	Horizontal
2	1625.62	38.97	-15.80	70.00	31.03	100	3	Horizontal
3	2131.13	43.18	-11.27	70.00	26.82	100	220	Horizontal
4	2951.95	44.01	-9.37	70.00	25.99	100	224	Horizontal
5	3862.86	45.95	-6.80	74.00	28.05	100	1	Horizontal
6	4973.97	47.17	-4.74	74.00	26.83	100	213	Horizontal

RESULT: PASS



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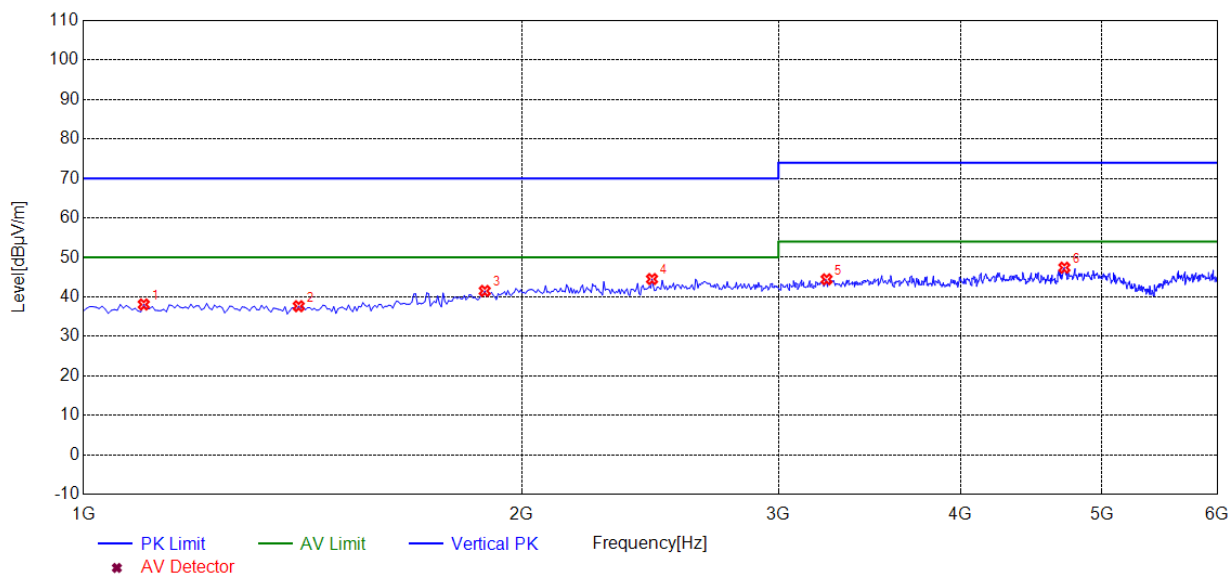
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Radiated Emission Test at 3m Distance Above 1G –Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1100.10	38.07	-16.74	70.00	31.93	100	299	Vertical
2	1405.40	37.63	-17.04	70.00	32.37	100	27	Vertical
3	1885.88	41.50	-13.03	70.00	28.50	100	222	Vertical
4	2456.45	44.51	-9.90	70.00	25.49	100	186	Vertical
5	3237.23	44.45	-8.51	74.00	29.55	100	259	Vertical
6	4713.71	47.40	-4.99	74.00	26.60	100	330	Vertical

RESULT: PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

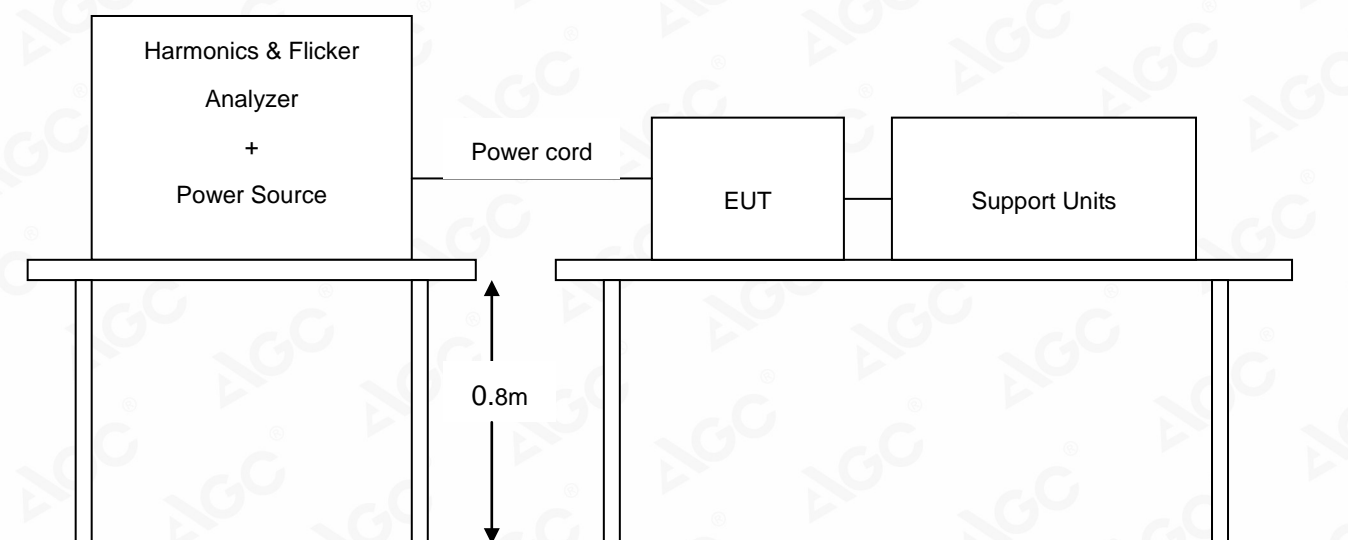
Service Hotline: 400 089 2118

11 EN 61000-3-2 POWER HARMONICS TEST

POWER HARMONICS MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-2
Limits	<input checked="" type="checkbox"/> CLASS A ; <input type="checkbox"/> CLASS B ; <input type="checkbox"/> CLASS C ; <input type="checkbox"/> CLASS D
Tester	Faler
Temperature	25°C
Humidity	55%

11.1. BLOCK DIAGRAM OF TEST SETUP



11.2. RESULT

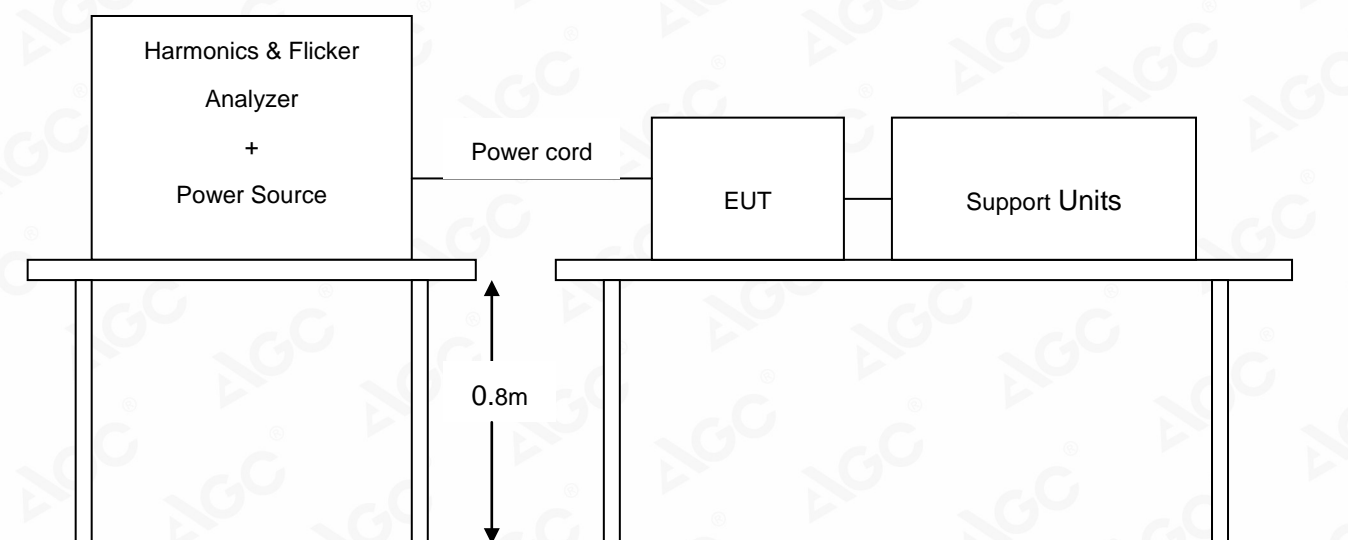
Note: Owing to the power of EUT is less than 75W, so test is not applicable.

12 EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST

VOLTAGE FLUCTUATION/FLICKER MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-3
Limits	§5 of EN 61000-3-3
Tester:	Faler
Temperature	25°C
Humidity	55%

12.1. BLOCK DIAGRAM OF TEST SETUP



12.2. RESULT

Flicker Test Summary per EN/IEC61000-3-3 (Run time)

EUT: Y3-TB01

Tested by: Faler

Test category: All parameters (European limits)

Test Margin: 100

Test date: 10/04/2020

Start time: 20:58:29

End time: 21:08:51

Test duration (min): 10

Data file name: F-003069.cts_data

Comment: Normal operation

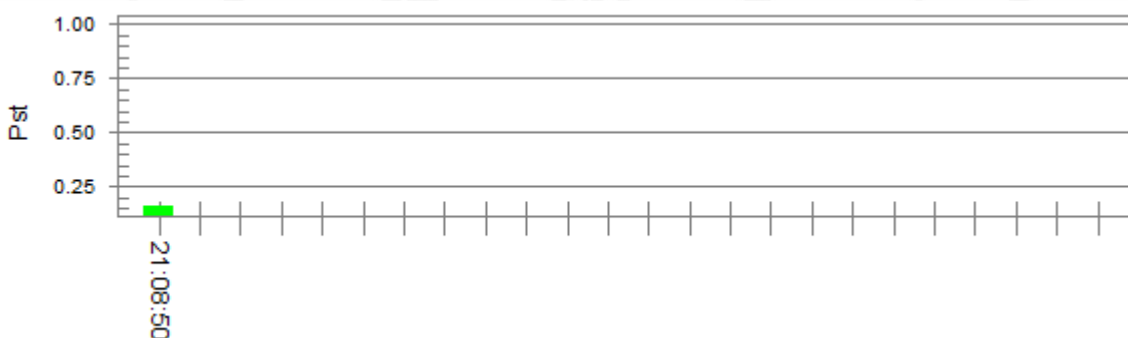
Customer: SHENZHEN KAANSKY TECHNOLOGY CO., LTD

Test Result: Pass

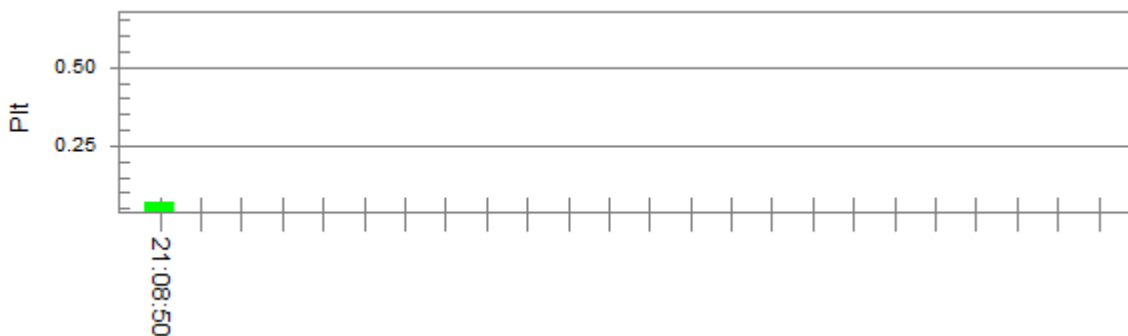
Status: Test Completed

Pst and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt): 230.76

Highest dt (%): 0.00

Time(mS) > dt: 0.0

Highest dc (%): 0.00

Highest dmax (%): 0.00

Highest Pst (10 min. period): 0.160

Highest Plt (2 hr. period): 0.070

Test limit (%): 3.30 Pass

Test limit (mS): 500.0 Pass

Test limit (%): 3.30 Pass

Test limit (%): 4.00 Pass

Test limit: 1.000 Pass

Test limit: 0.650 Pass

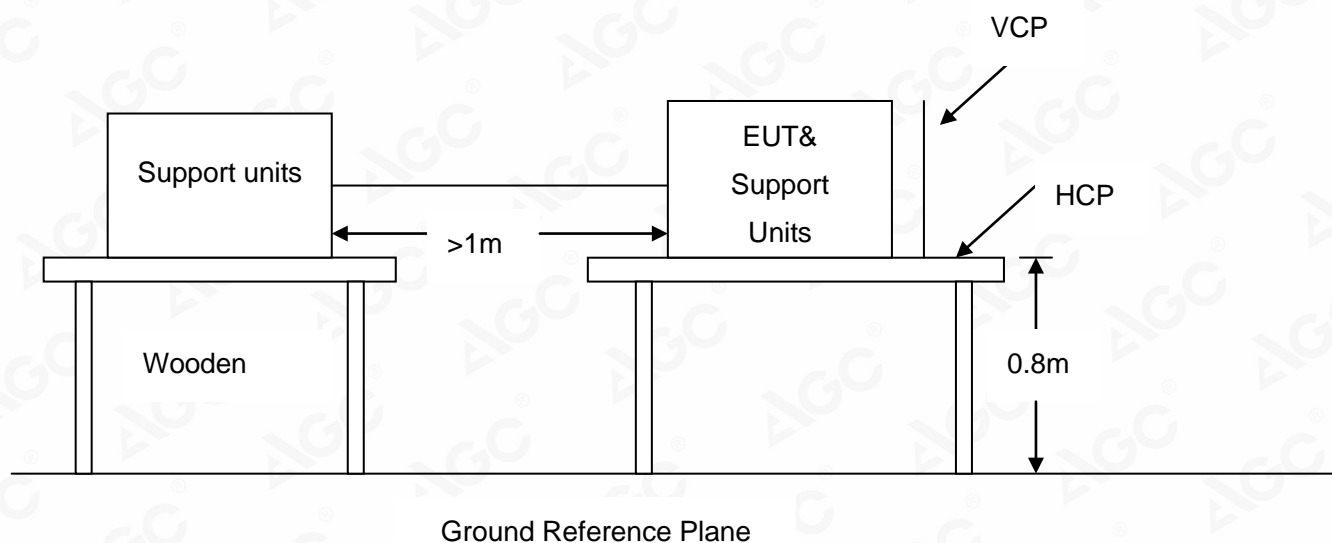
13 EN 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	±2,4, 8.0 kV (Air Discharge) ± 4, 6.0 kV (Contact Discharge) ±2, 4, 6.0 kV (Indirect Discharge)
Standard require	B
Tester	Faler
Temperature	23.8°C
Humidity	43.9%

13.1. BLOCK DIAGRAM OF TEST SETUP

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



13.2. 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.

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

As per the requirement of EN 61000-4-2; applying direct contact discharge at the sides other than front of EUT at minimum 20 discharges (10 positive and 10 negative) if applicable, can't be applied direct contact discharge side of EUT then the indirect discharge shall be applied. One of the test points shall be subjected to at least 50 indirect discharge (contact) to the front edge of horizontal coupling plane.

Other parts of EUT where it is not possible to perform contact discharge then selecting appropriate points of EUT for air discharge, a minimum of 10 single air discharges shall be applied.

The application of ESD to the contact of open connectors is not required.

Putting a mark on EUT to show tested points. The following test condition was followed during the tests.

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

The electrostatic discharges were applied as follows:

Voltage	Coupling	Test Performance	Result
$\pm 4\text{kV}; \pm 6\text{kV}$	Contact Discharge	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge HCP (Front)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge HCP (Back)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge HCP (Left)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge HCP (Right)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge VCP (Front)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge VCP (Back)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge VCP (Left)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 6\text{kV}$	Indirect Discharge VCP (Right)	No function loss	A
$\pm 2\text{kV}; \pm 4\text{kV}; \pm 8\text{kV}$	Air Discharge	No function loss	A

13.3. 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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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

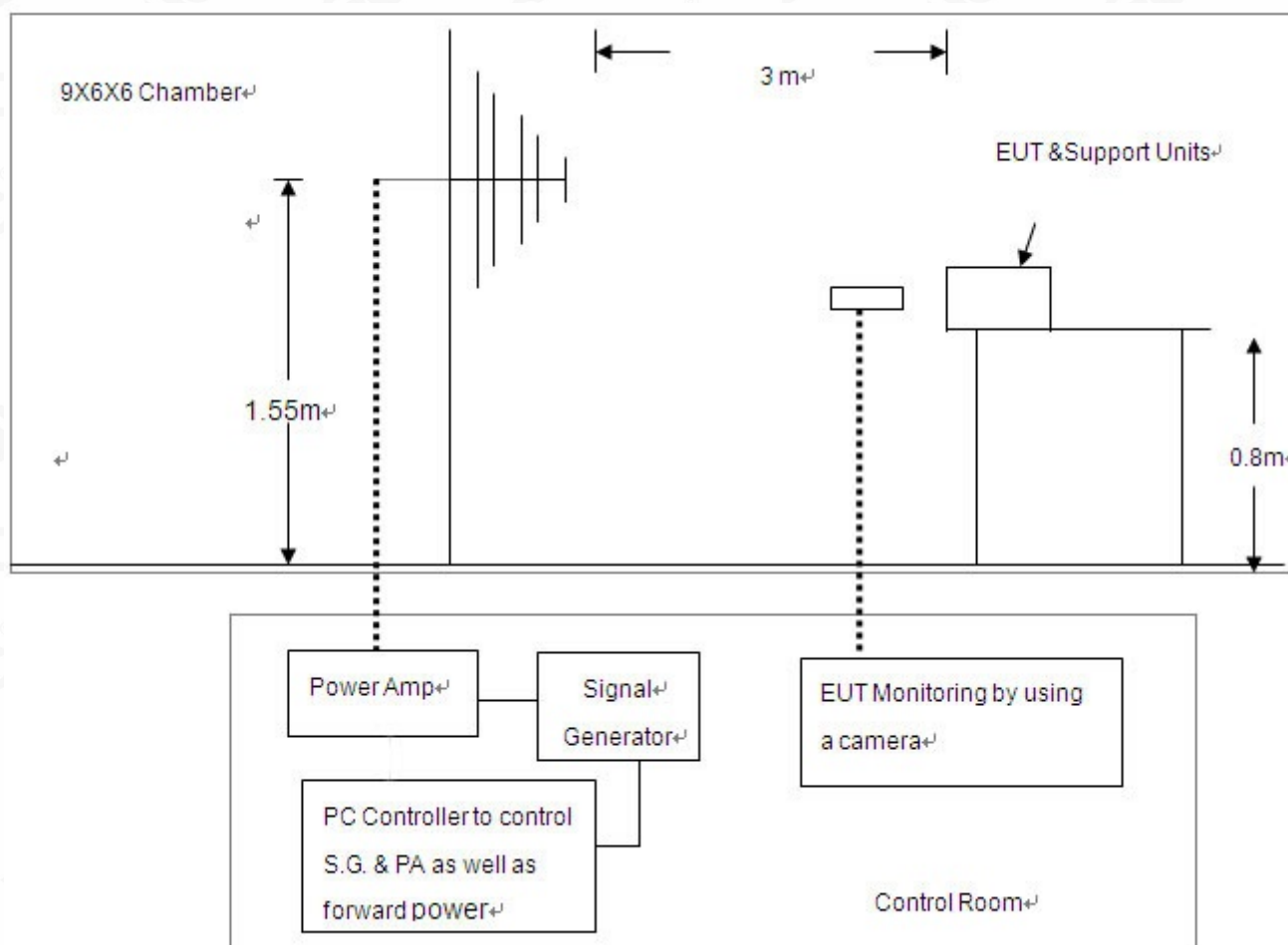
Service Hotline: 400 089 2118

14 EN 61000-4-3 RS IMMUNITY TEST

RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Test Level	3V/m with 80% AM. 1kHz Modulation at 80-1000MHz 3V/m with 80% AM. 1kHz Modulation at 1400-2000MHz 1V/m with 80% AM. 1kHz Modulation at 2000-2700MHz 10V/m with 80% AM. 1kHz Modulation And Pulse modulation(1Hz 0.5s on, 0.5s off)
Standard require	A
Tester	Faler
Temperature	23.4°C
Humidity	54.0%

14.1. BLOCK DIAGRAM OF TEST SETUP



14.2. 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 EN 61000-4-3.

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

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

Performing each side with specified level at 1% steps.

Recording the test result in following table.

Test Conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Result
80-1000	3V/m	AM	H	Front	A
80-1000	3V/m	AM	H	Left	A
80-1000	3V/m	AM	H	Back	A
80-1000	3V/m	AM	H	Right	A
80-1000	3V/m	AM	V	Front	A
80-1000	3V/m	AM	V	Left	A
80-1000	3V/m	AM	V	Back	A
80-1000	3V/m	AM	V	Right	A

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Result
1400-2000	3V/m	AM	H	Front	A
1400-2000	3V/m	AM	H	Left	A
1400-2000	3V/m	AM	H	Back	A
1400-2000	3V/m	AM	H	Right	A
1400-2000	3V/m	AM	V	Front	A
1400-2000	3V/m	AM	V	Left	A
1400-2000	3V/m	AM	V	Back	A
1400-2000	3V/m	AM	V	Right	A



Test level: 1V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Result
2000-2700	1V/m	AM	H	Front	A
2000-2700	1V/m	AM	H	Left	A
2000-2700	1V/m	AM	H	Back	A
2000-2700	1V/m	AM	H	Right	A
2000-2700	1V/m	AM	V	Front	A
2000-2700	1V/m	AM	V	Left	A
2000-2700	1V/m	AM	V	Back	A
2000-2700	1V/m	AM	V	Right	A

Test level:10V/m

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Result
80-2700	10V/m	AM	H	Front	No function loss	A
80-2700	10V/m	AM	H	Left	No function loss	A
80-2700	10V/m	AM	H	Back	No function loss	A
80-2700	10V/m	AM	H	Right	No function loss	A
80-2700	10V/m	AM	V	Front	No function loss	A
80-2700	10V/m	AM	V	Left	No function loss	A
80-2700	10V/m	AM	V	Back	No function loss	A
80-2700	10V/m	AM	V	Right	No function loss	A
80-2700	10V/m	Pulse	H	Front	No function loss	A
80-2700	10V/m	Pulse	H	Left	No function loss	A
80-2700	10V/m	Pulse	H	Back	No function loss	A
80-2700	10V/m	Pulse	H	Right	No function loss	A
80-2700	10V/m	Pulse	V	Front	No function loss	A
80-2700	10V/m	Pulse	V	Left	No function loss	A
80-2700	10V/m	Pulse	V	Back	No function loss	A
80-2700	10V/m	Pulse	V	Right	No function loss	A

14.3. 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**



Attestation of Global Compliance

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E-mail: agc@agc-cert.com

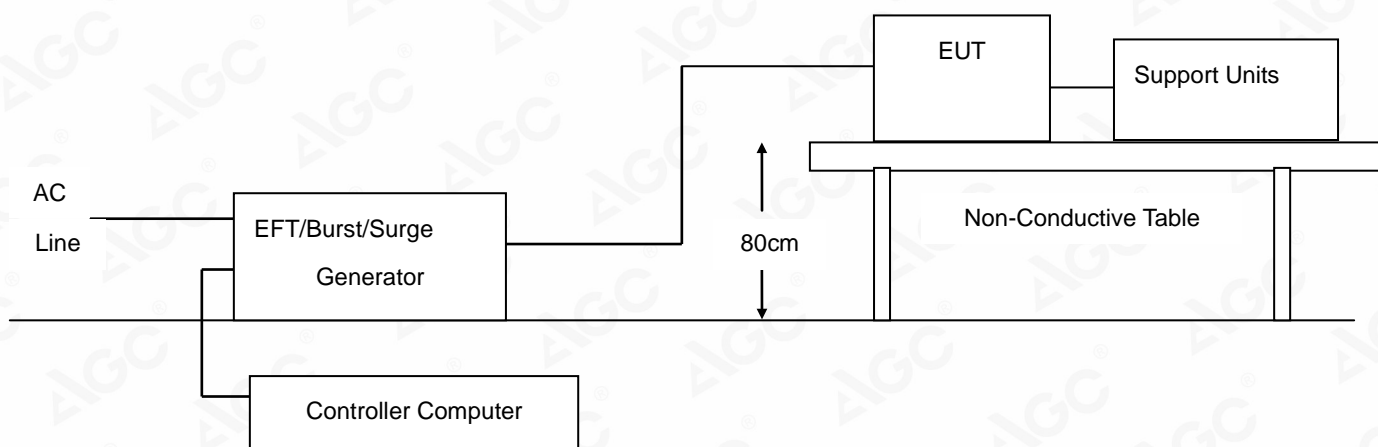
Service Hotline: 400 089 2118

15 EN 61000-4-4 EFT IMMUNITY TEST

ELECTRICAL FAST TRANSIENTS/BURST IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-4
Test Level	+/- 1,2kV for Power Supply Lines +/- 0.5,1kV for signal port
Standard require	B
Tester	Faler
Temperature	24.2°C
Humidity	45.0%

15.1. BLOCK DIAGRAM OF TEST SETUP



15.2. TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8m away from ground reference plane.
A 1.0 meter long power cord was attached to EUT during the test.
The length of communication cable between communication port and clamp was keeping within 1 meter.
EUT worked with resistance load, and make sure EUT worked normally.
Related peripherals work during the test.
Recording the test result as shown in following table.

Test conditions:

Impulse Frequency: 5 kHz

Tr/Th: 5/50ns

Burst Duration: 15ms

Burst Period: 300ms

Inject Line	Voltage kV	Inject Method	Test Performance	Result
L+N	+/- 1	Direct	No function loss	A
L+N	+/- 2	Direct	No function loss	A
Signal	+/- 0.5	Coupling	No function loss	A
Signal	+/- 1	Coupling	No function loss	A

15.3. 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.

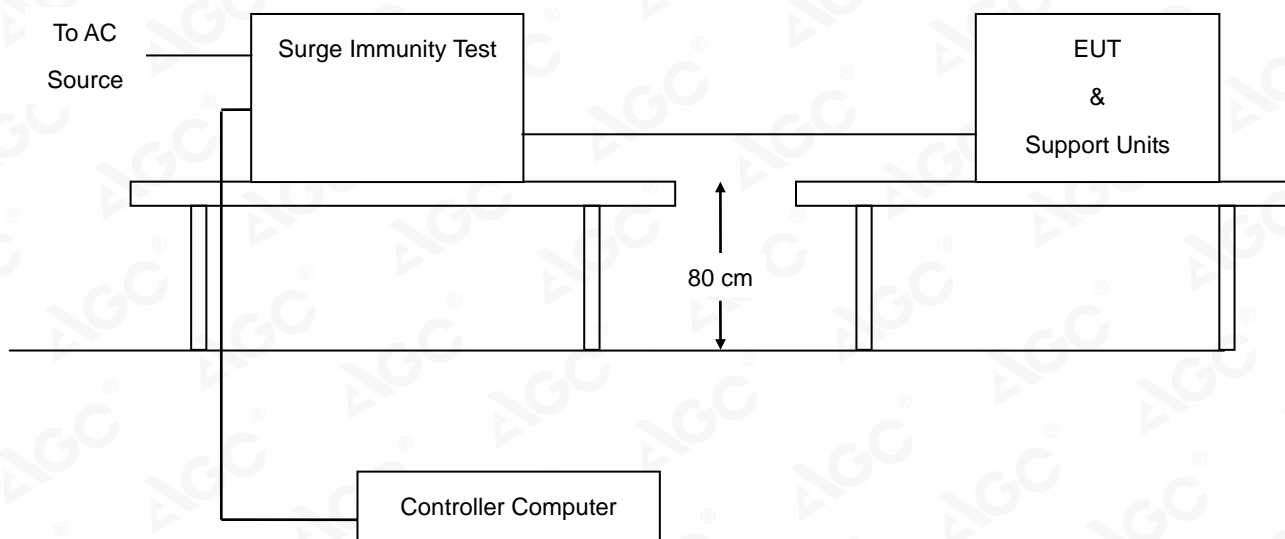
☒ **PASS**
☐ **FAIL**

16 EN 61000-4-5 SURGE IMMUNITY TEST

SURGE IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-5
Requirements	+/- 0.5,1kV (Line to Line) +/- 0.5,1kV for signal port
Standard require	B
Tester	Faler
Temperature	24.2°C
Humidity	54.0%

16.1. BLOCK DIAGRAM OF TEST SETUP



16.2. TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8 m away from ground floor.
EUT worked with resistance load, and make sure EUT worked normally.
Recording the test result as shown in following table.

Test conditions:

Voltage Waveform	1.2/50 μ s
Current Waveform	8/20 μ s
Polarity	Positive/Negative
Phase angle	0°, 90°, 180°, 270°
Number of Test	5

Coupling Line	Voltage (kV)	Polarity	Coupling Method	Test Performance	Result
L1-N	0.5	Positive	Capacitive	No function loss	A
L1-N	0.5	Negative	Capacitive	No function loss	A
L1-N	1	Positive	Capacitive	No function loss	A
L1-N	1	Negative	Capacitive	No function loss	A

Test conditions for LAN port

Voltage Waveform	1.2/50 μ s
Current Waveform	8/20 μ s
Polarity	Positive/Negative
Phase angle	90°, 270°
Number of Test	5

Coupling Line	Voltage (kV)	Polarity	Coupling Method	Test Performance	Result
Line to Ground	0.5	Positive	Capacitive	No function loss	A
Line to Ground	0.5	Negative	Capacitive	No function loss	A
Line to Ground	1	Positive	Capacitive	No function loss	A
Line to Ground	1	Negative	Capacitive	No function loss	A

16.3. 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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Tel: +86-755 2523 4088

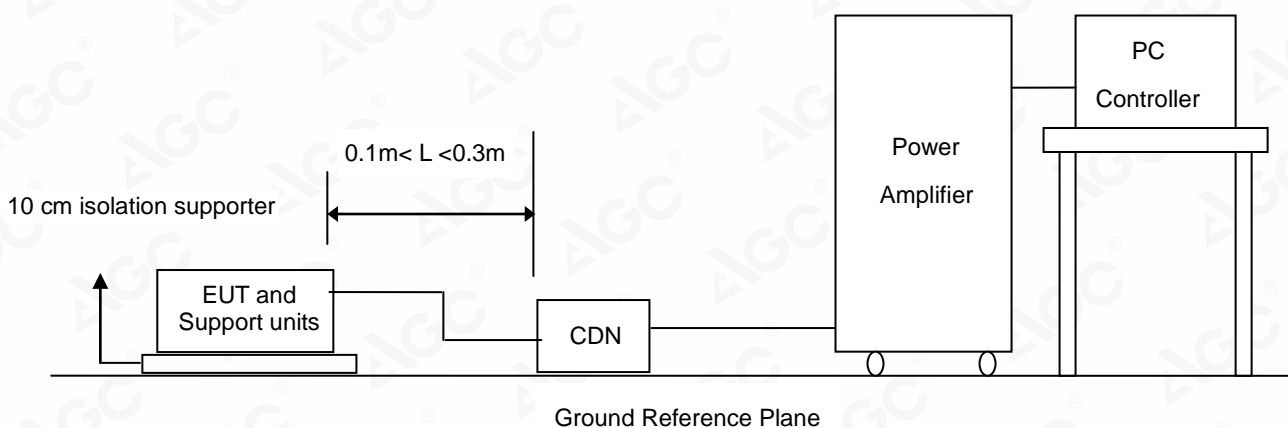
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

17 EN 61000-4-6 CS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-6
Requirements	3V with 80% AM. 1 kHz Modulation 10V with 80% AM. 1 kHz Modulation And Pulse modulation(1Hz 0.5s on, 0.5s off)
Standard require	A
Tester	Faler
Temperature	24.4°C
Humidity	44.9%

17.1. BLOCK DIAGRAM OF TEST SETUP



17.2. TEST PROCEDURE

The EUT and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.

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

Related peripherals work during the test.

Setting the testing parameters of CS test software per EN 61000-4-6.

Recording the test result in following table.

Test conditions:

Frequency Range	0.15MHz-80MHz
Frequency Step	1% of fundamental
Dwell Time	1 sec

Range (MHz)	Injection Port	Strength	Modulation	Result
0.15-80	AC mains	3V	AM	A
0.15-80	AC mains	10V	AM	A

17.3. 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

18 EN 61000-4-11 DIPS IMMUNITY TEST

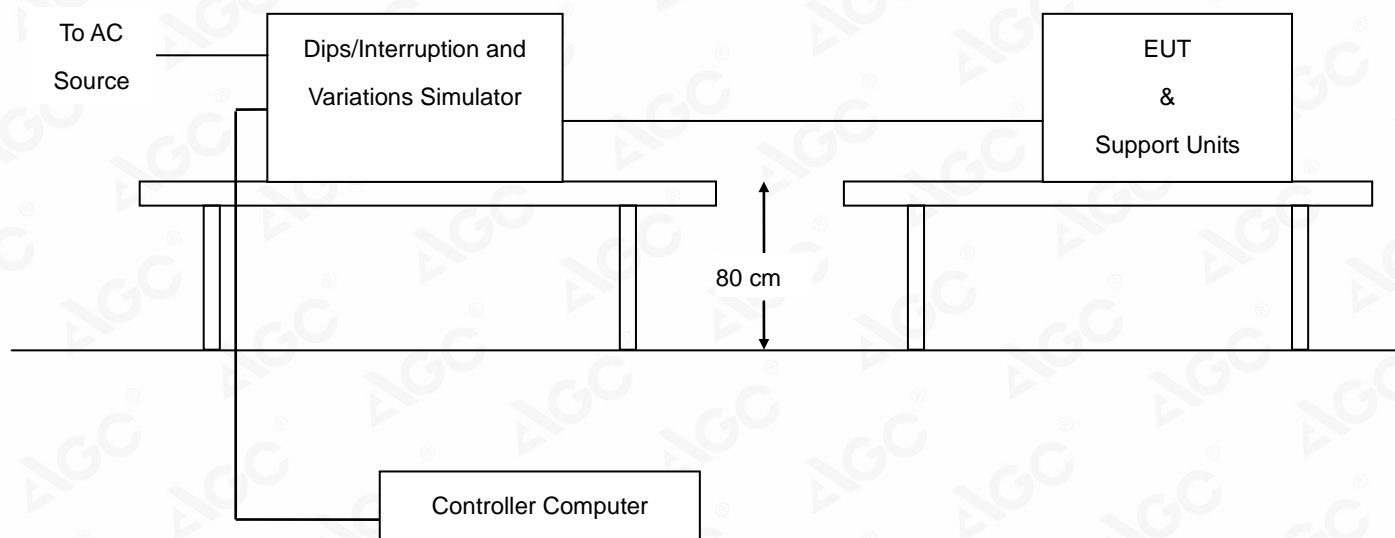
VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-11
Requirements	0 degrees
Test Interval	Min. 10 sec.
Tester	Faler
Temperature	24.2°C
Humidity	54.0%

Voltage Dips	Test Level % U_T	Reduction (%)	Duration (periods)	Performance Criteria
	0	100	0.5	B
	0	100	1	B
	30	70	25	C

Voltage Interruptions	Test Level % U_T	Reduction (%)	Duration (periods)	Performance Criteria
	0	100	250	C

18.1. BLOCK DIAGRAM OF TEST SETUP



18.2. TEST PROCEDURE

The EUT and support units were located on a wooden table, 0.8 m away from ground floor.

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

Setting the parameter of tests and then perform the test software of test simulator.

Conditions changes to occur at 0 degree crossover point of the voltage waveform.

Recording the test result in test record form.

Test conditions:

The duration with a sequence of three dips/interruptions with interval of 10 s minimum
(Between each test event)

Voltage Dips:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Performance Result
0	100	0.5	Normal	A
0	100	1	Normal	A
30	70	25	The EUT stopped working during the test, but it can be recovered by operator after test.	B

Voltage Interruptions:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Performance Result
0	100	250	The EUT stopped working during the test, but it can be recovered by operator after test.	B

18.3. INTERPRETATION

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**

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION TEST SETUP



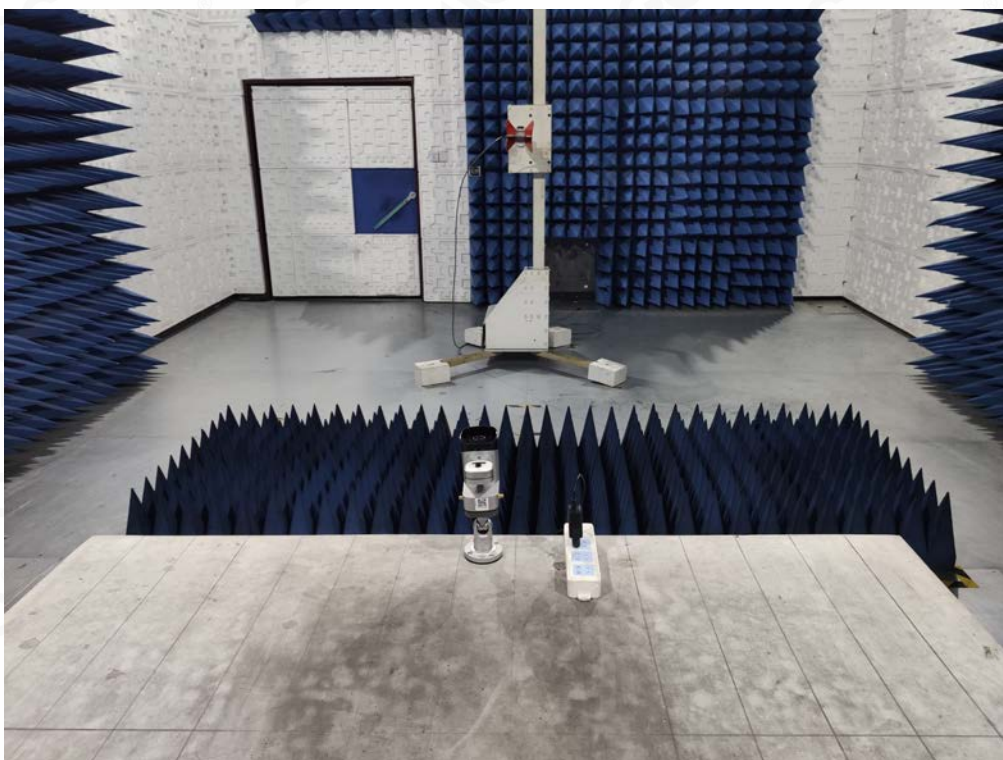
CONDUCTED EMISSION TEST SETUP(LAN)



RADIATED EMISSION 30MHz-1GHz TEST SETUP



EN 61326-1 RADIATED EMISSION ABOVE 1G TEST SETUP



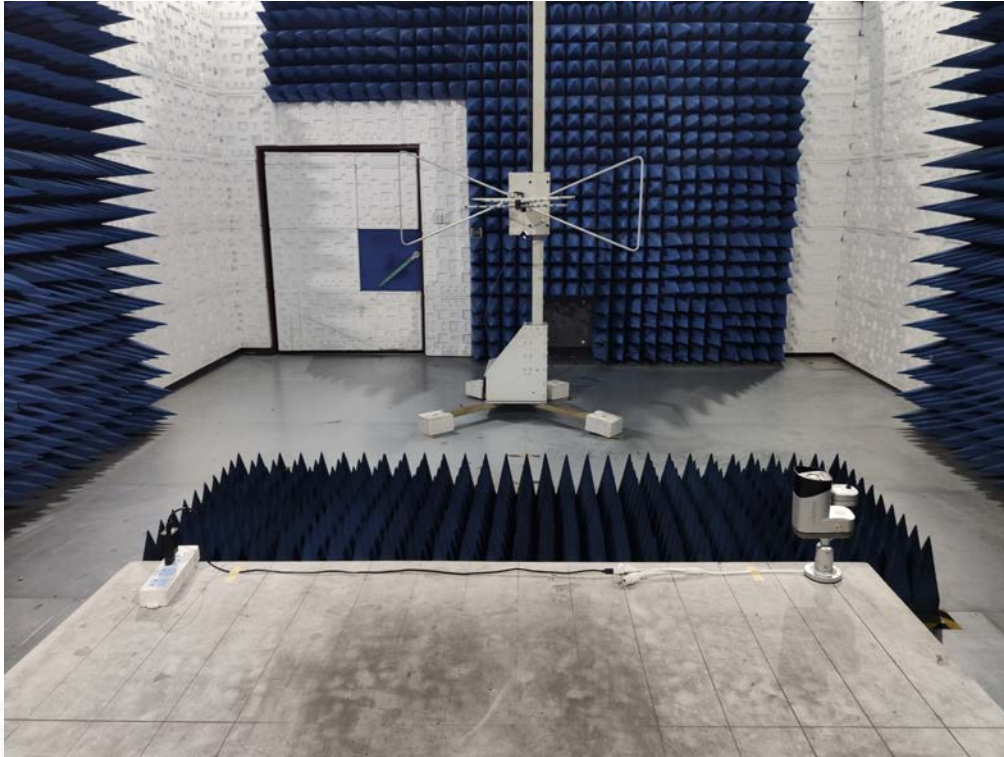
EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST



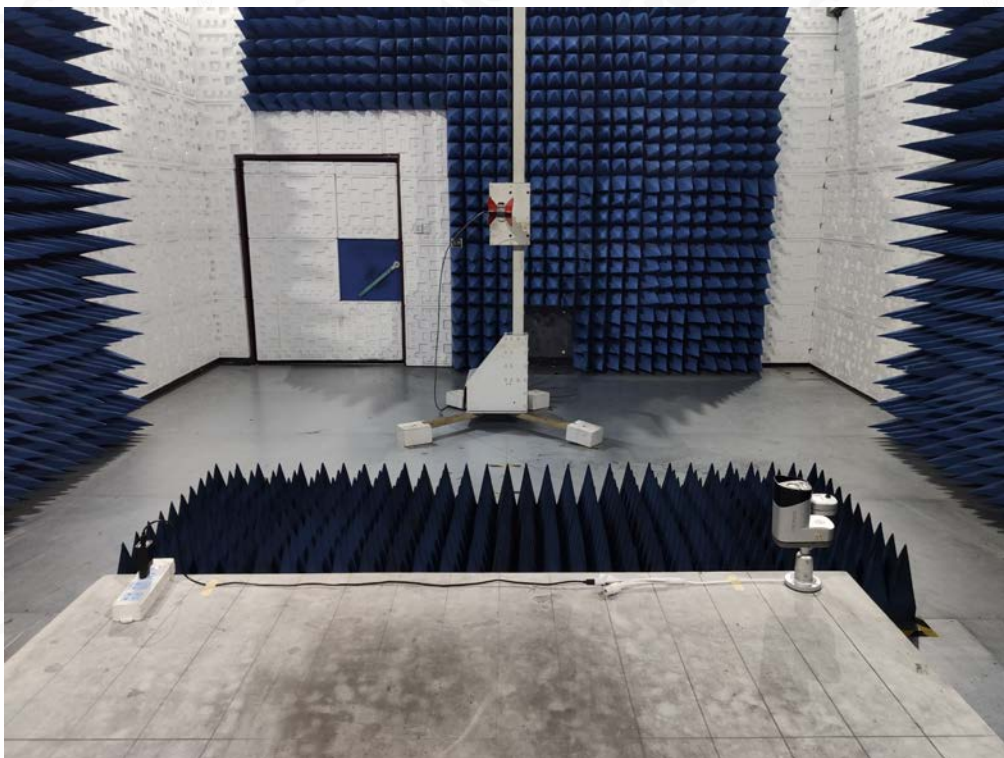
EN 61000-4-2 ESD IMMUNITY TEST SETUP



EN 61000-4-3 RS IMMUNITY TEST SETUP



EN 61000-4-3 RS IMMUNITY ABOVE 1G TEST SETUP



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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

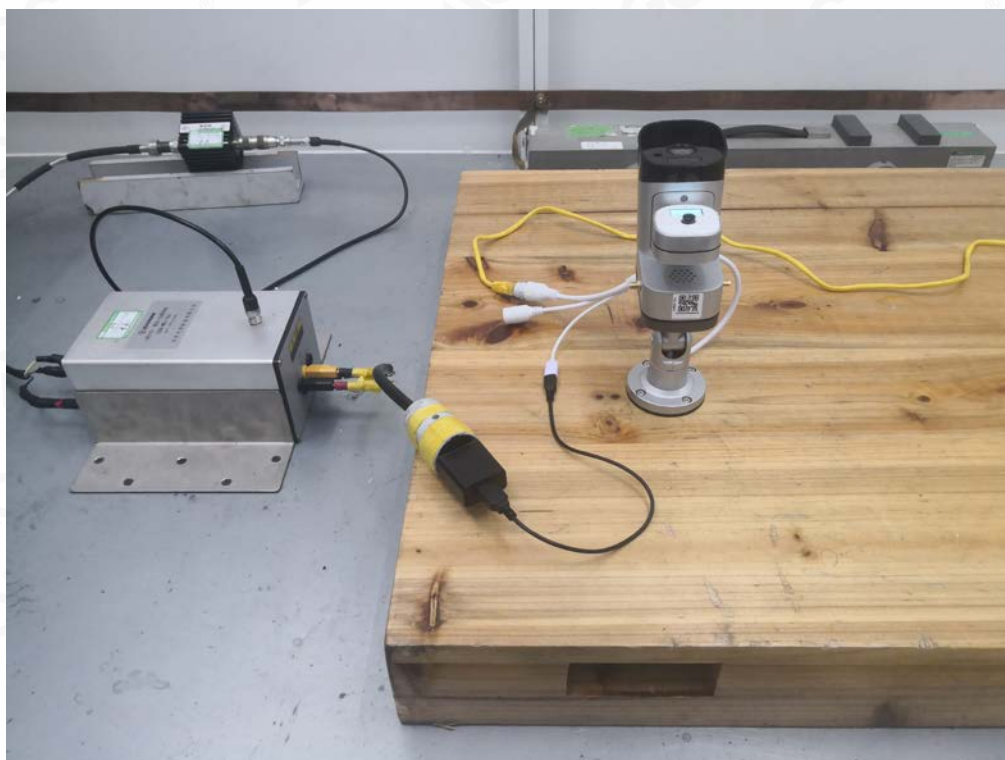
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

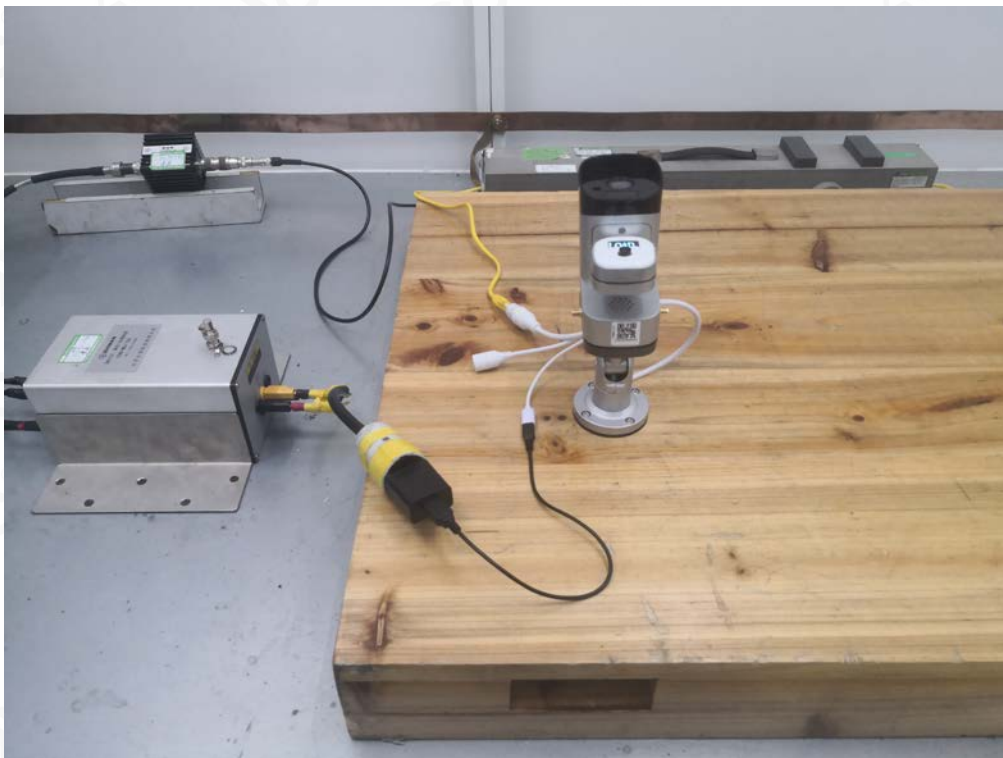
EN 61000-4-4/-5/-11 EFT/SURGE/DIPS IMMUNITY TEST SETUP-AC POWER PORT



EN 61000-4-6 CS IMMUNITY TEST SETUP-AC POWER PORT

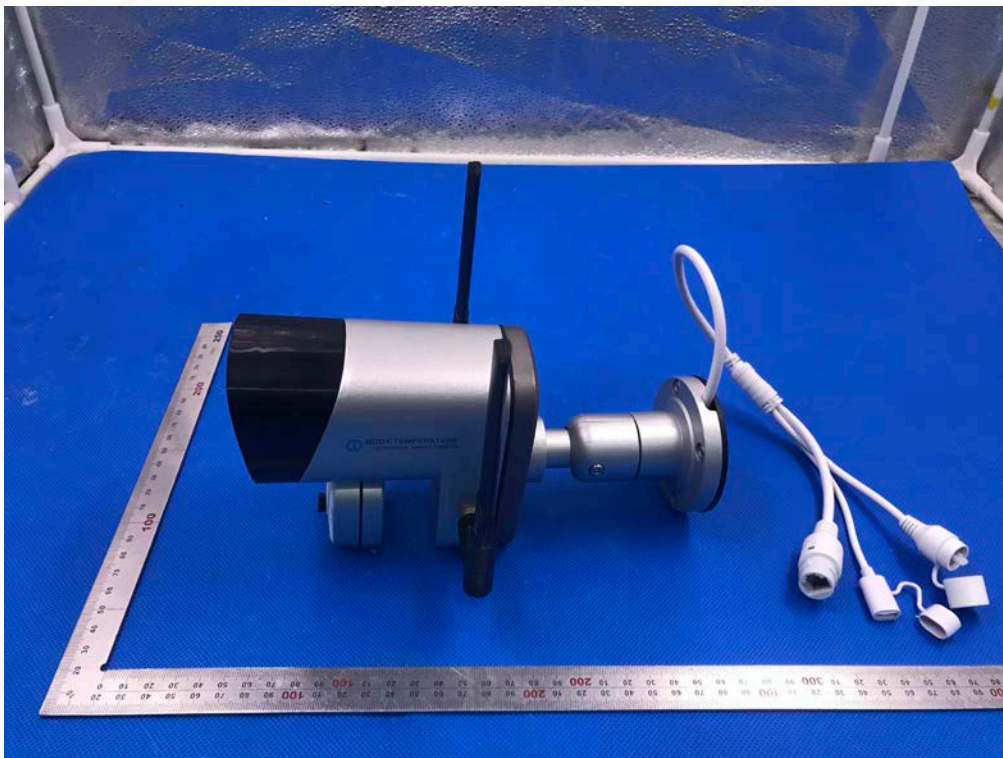


EN 61000-4-6 CS IMMUNITY TEST SETUP- SIGNAL PORT



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



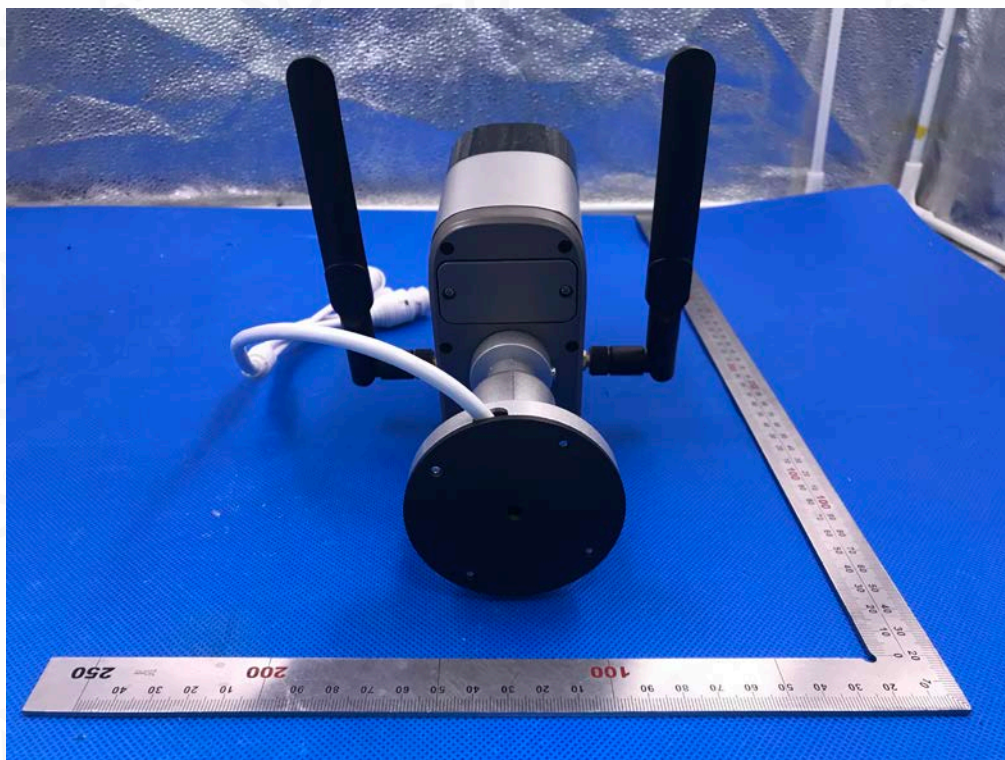
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



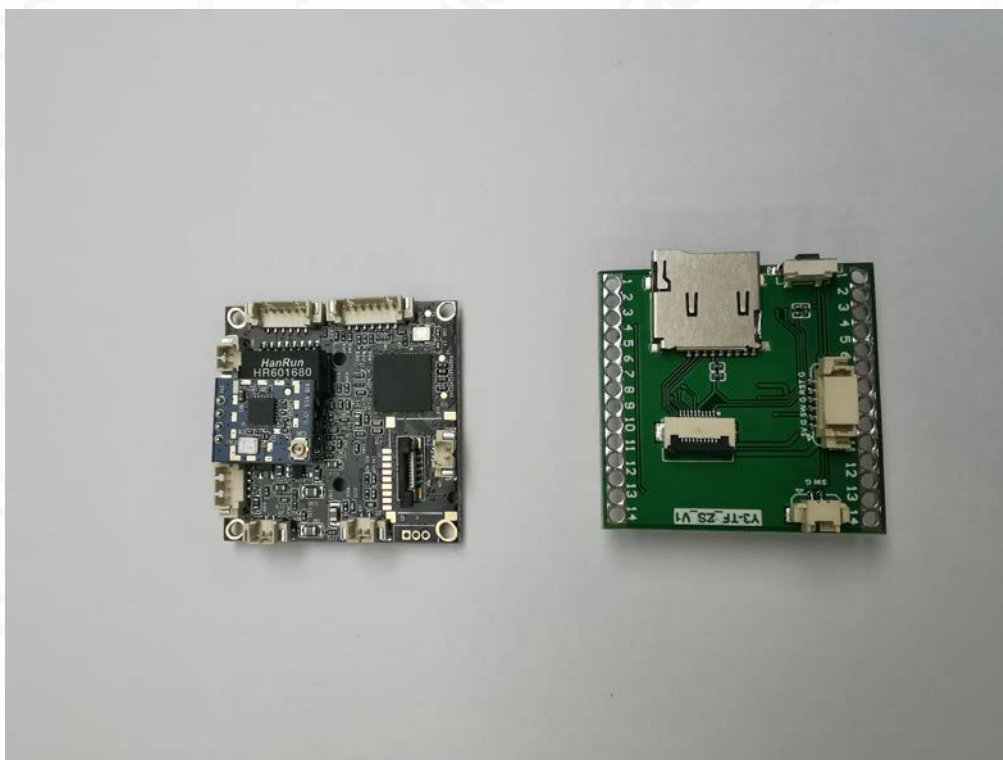
LEFT VIEW OF EUT



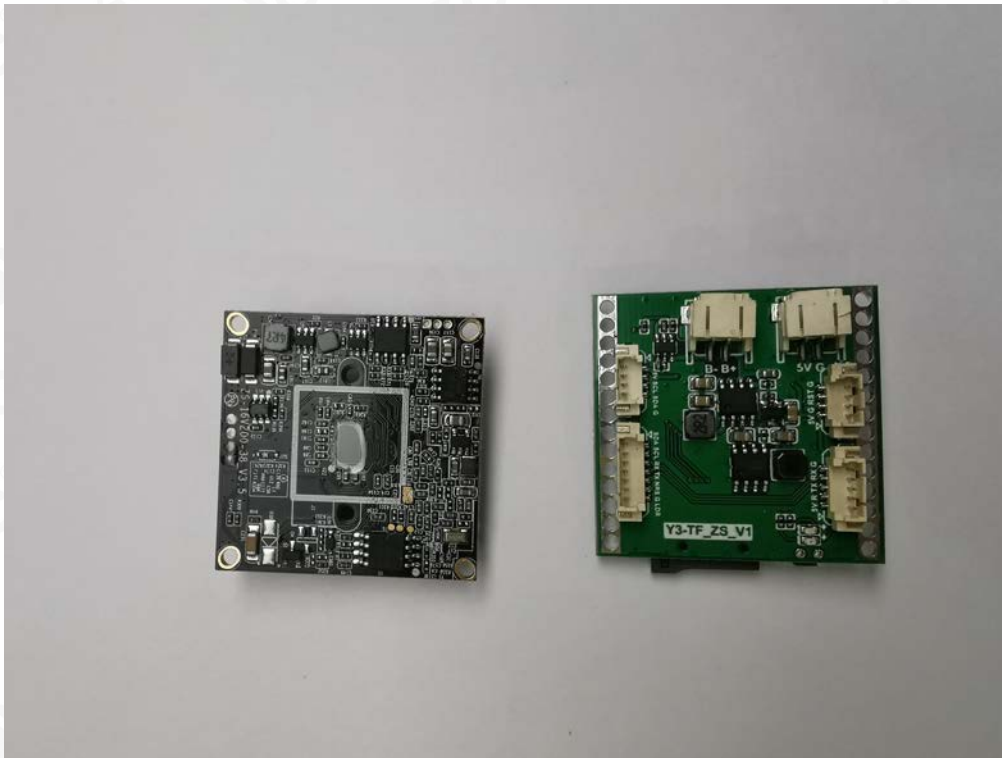
RIGHT VIEW OF EUT



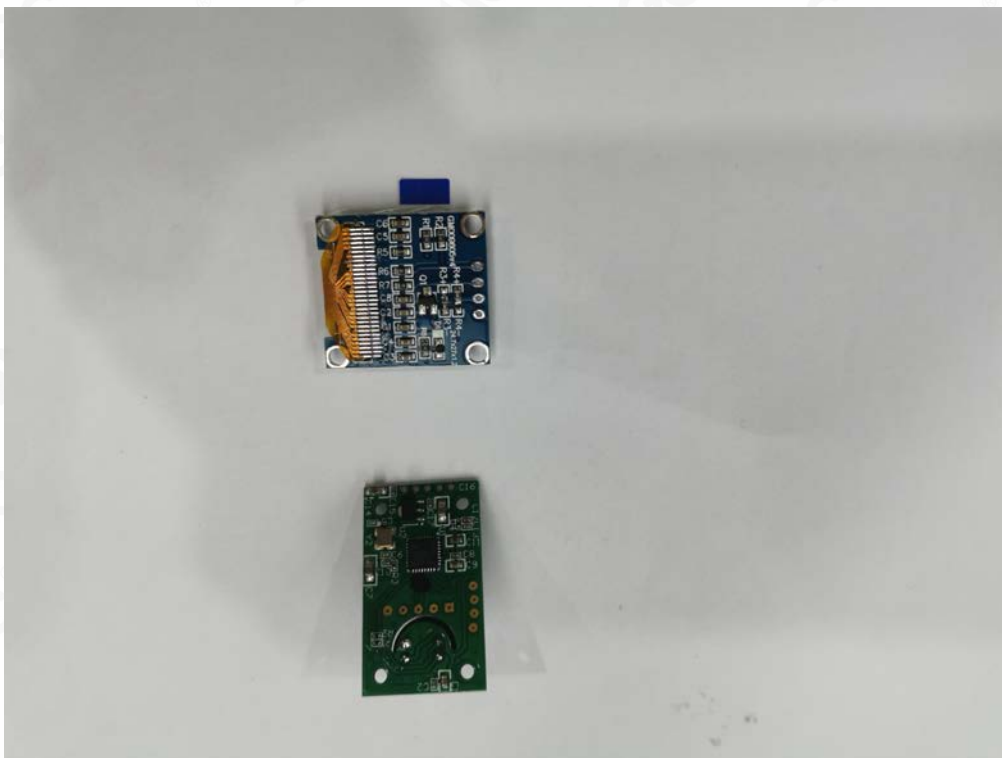
INTERNAL VIEW OF EUT-1



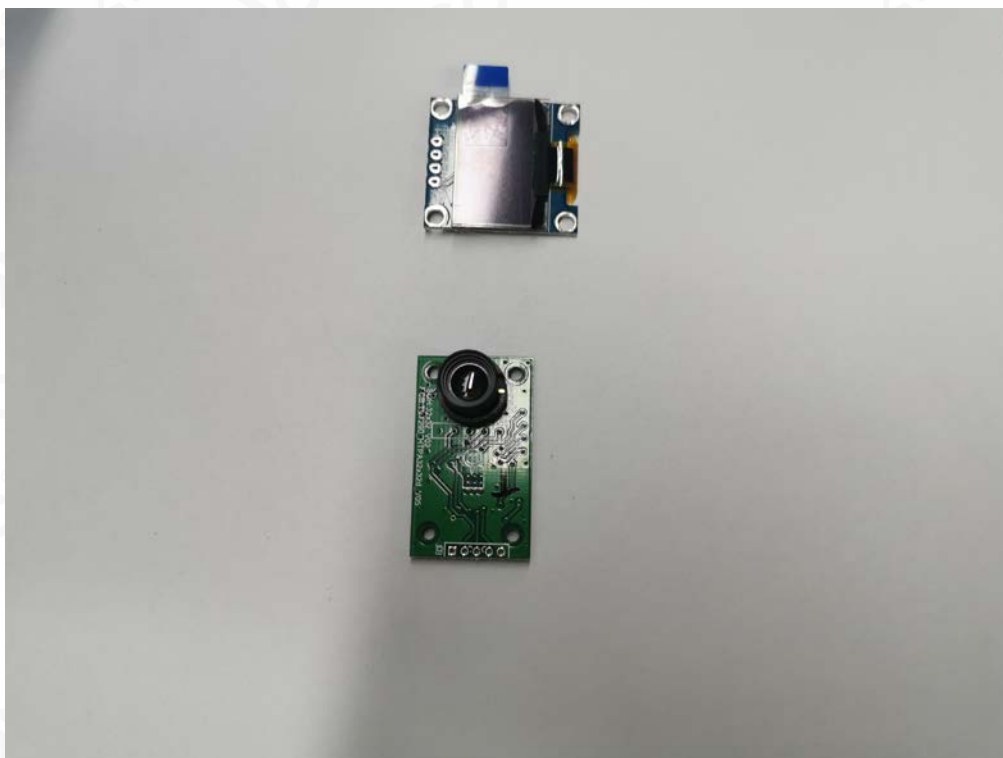
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118