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# EMC Test Report

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Report No.: AGC03739230301EE02

**PRODUCT DESIGNATION** : Dual Band Digital Two Way Radio

**BRAND NAME** : VITAI, JUMENTAI, ZASTONE

**MODEL NAME** : VDG-UV008, JD-UV008, ZT-UV008

**APPLICANT** : VITAI ELECTRONICS CO., LIMITED

**DATE OF ISSUE** : Apr. 13, 2023

**STANDARD(S)** : EN 55032:2015/A11:2020  
EN IEC 61000-3-2:2019  
EN 61000-3-3:2013/A1:2019  
EN 55035:2017/A11:2020

**REPORT VERSION** : V1.0

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 13, 2023	Valid	Initial Release

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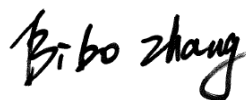
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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	VITAI ELECTRONICS CO., LIMITED
<b>Address</b>	Room 1901 Buiding 1, Zhongjun Tianfeng,Jiangbinbei Road,Quanzhou,Fujian Province ,China
<b>Manufacturer</b>	VITAI ELECTRONICS CO., LIMITED
<b>Address</b>	Room 1901 Buiding 1, Zhongjun Tianfeng,Jiangbinbei Road,Quanzhou,Fujian Province ,China
<b>Factory</b>	VITAI ELECTRONICS CO., LIMITED
<b>Address</b>	Room 1901 Buiding 1, Zhongjun Tianfeng,Jiangbinbei Road,Quanzhou,Fujian Province ,China
<b>Product Designation</b>	Dual Band Digital Two Way Radio
<b>Brand Name</b>	VITAI, JUENTAI, ZASTONE
<b>Test Model</b>	VDG-UV008
<b>Series Model</b>	JD-UV008, ZT-UV008
<b>Difference Description</b>	Only the model name & brand name are different.
<b>Hardware Version</b>	LD8800DF697
<b>Software Version</b>	V1.02.03.1007
<b>Date of receipt of test item</b>	Mar. 24, 2023
<b>Date of Test</b>	Mar. 24, 2023~Apr. 13, 2023
<b>Test Result</b>	Pass

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in EU Directive 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. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Bibo Zhang  
(Project Engineer)

Apr. 13, 2023

Reviewed By



Calvin Liu  
(Reviewer)

Apr. 13, 2023

Approved By



Max Zhang  
Authorized Officer

Apr. 13, 2023

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## 2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION
Operation in FM broadcast receiver 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,  $U_c = \pm 2.9\text{dB}$
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9\text{dB}$
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.9\text{dB}$

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#### 4. PRODUCT INFORMATION

<b>Housing Type</b>	Plastic
<b>Power Supply</b>	DC 7.4V, 2500mAh by battery, Charger for 8.4V
<b>Adapter Parameter</b>	INPUT: AC 100-240V 50/60Hz, 0.2A OUTPUT: DC 12V 0.5A
<b>Charger Parameter</b>	INPUT:DC 12V 0.5A OUTPUT:DC 8.4V 500mA

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

I/O Port of EUT			
I/O Port Type	Number	Cable Description	Tested With
Antenna Port	1	--	1
Earphone Port	1	--	1

#### Performance Criteria for EMS

All the test data has been collected, reduced, and analyzed within this report in accordance with Immunity requires the following as specific performance criteria:

- A. The apparatus shall continue to operate as intended during and after the test. The manufacturer specifies some minimum performance level. The performance level may be specified by the manufacturer as a permissible loss of performance.
- B. The apparatus shall continue to operate as intended after the test. This indicates that the EUT does not need to function at normal performance levels during the test, but must recover. Again some minimal performance is defined by the manufacture. No change in operating state or loss or data is permitted.
- C. Temporary loss of function is allowed. Operation of the EUT may stop as long as it is either automatically reset or can be manually restored by operation of the controls.

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## 5. SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
1.	Battery	N/A	VTB-UV008	--	--	--
2	Adapter	N/A	NLA050120W1U6	--	--	1.0m Unshielded
3	Charger	N/A	VTC-UV008	--	--	--
4	Lanyard	N/A	--	--	--	--

## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China
<b>Description</b>	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The chamber and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 28, 2022	Apr. 27, 2023
AMN	R&S	ESH2-Z5	100086	Jul. 01, 2022	Jun. 30, 2023
TEST SOFTWARE	FR	EZ-EMC	AGC-CON03A	--	--

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 28, 2022	Apr. 27, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
POSITIONING CONTROLLER	MF	MF-7802	MF780208285	N/A	N/A
HORN ANTENNA	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
TEST SOFTWARE	FR	EZ-EMC	Ver.RA-03A	N/A	N/A
CHAMBER	ETS	---	---	Feb. 21, 2023	Feb. 20, 2024

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**TEST EQUIPMENT OF POWER HARMONICS / VOLTAGE FLUCTUATION / FLICKER TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Conditioning Unit	Schaffner	CCN1000-1	72431	Aug.21, 2022	Aug.23, 2023
AC Source	Schaffner	NSG1007	56825	Aug.21, 2022	Aug.23, 2023

**SURGE/EFT/DIPS**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	Schaffner	NSG 438	782	Dec. 30, 2022	Dec. 29, 2023

**TEST EQUIPMENT OF RS IMMUNITY TEST**

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Signal Generator	AGILENT	E8257D	MY45141029	Sep. 01, 2022	Aug. 31, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
Power Probe	R&S	URV5-Z4	100124	Apr. 26, 2021	Apr. 25, 2023
POWER METER	R&S	NRVD	8323781027	Apr. 26, 2021	Apr. 25, 2023
Power Amplifier	L2	BPA00T10W50 0-1	S2006-0001	N/A	N/A
RF AMPLIFIER	Milmega	AS0104-55_55	1004793	N/A	N/A
HORN ANTENNA	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Power Amplifier	RF Light	NTWPAS-2560 100	17063183	N/A	N/A

**TEST EQUIPMENT OF CS IMMUNITY TEST**

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Amplifier	AR	75A250	18464	N/A	N/A
CDN	Schaffner	T4-1	10215	Jun. 17, 2021	Jun. 16, 2023
6dB attenuator	ZHINAN	E002	--	Sep. 01, 2022	Aug. 31, 2023
Electromagnetic Injection Clamp	Luthi	EM101	35773	Aug. 12, 2022	Aug. 11, 2024
Power Probe	R&S	URV5-Z4	100124	Apr. 26, 2021	Apr. 25, 2023
POWER METER	R&S	NRVD	8323781027	Apr. 26, 2021	Apr. 25, 2023
Power Amplifier	KALMUS	7100LC	04-02/17-06-001	N/A	N/A
Signal Generator	Aglient	E4421B	MY43351603	Feb. 17, 2023	Feb. 16, 2024

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## 7. EN 55032 LINE CONDUCTED EMISSION TEST

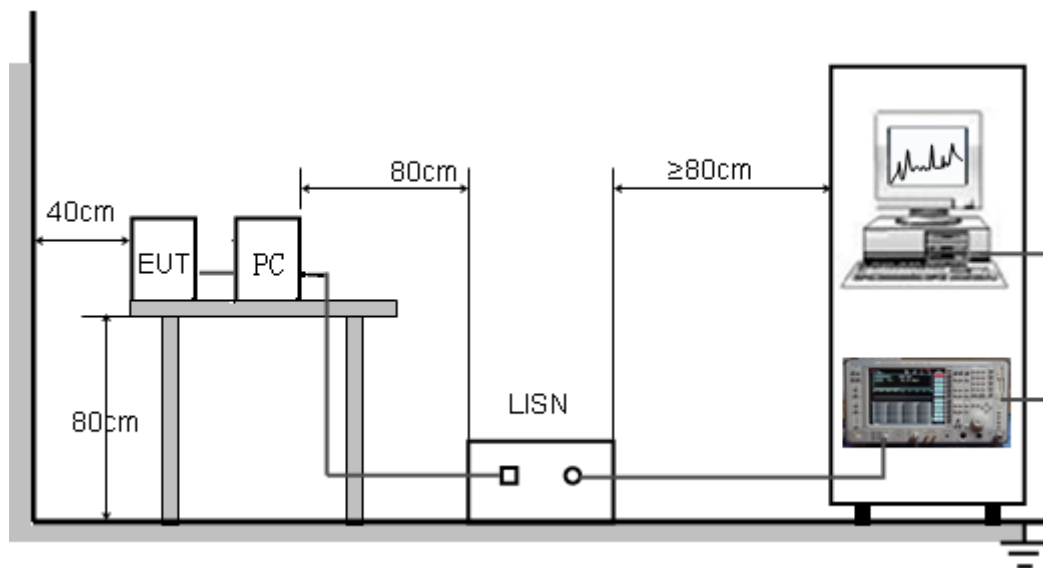
### 7.1. LIMITS OF LINE CONDUCTED EMISSION TEST

EN 55032 Table clause	Frequency range (MHz)	Coupling device	Detector type / bandwidth	Class B limits (dBuV)
A10.1	0.15 - 0.5	AMN/LISN	Quasi-peak / 9kHz	66 - 56
	0.5 - 5			56
	5 - 30.0			60
A10.1	0.15 - 0.5		Average / 9kHz	56 - 46
	0.5 - 5			46
	5 - 30.0			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.

### 7.2. BLOCK DIAGRAM OF TEST SETUP



**Note: 1. Support units were connected to second LISN/AMN.**

2. The distance specified between EUT/AE and other metallic objects is  $\geq 0.8$  m in the measurement arrangement for table-top EUT.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

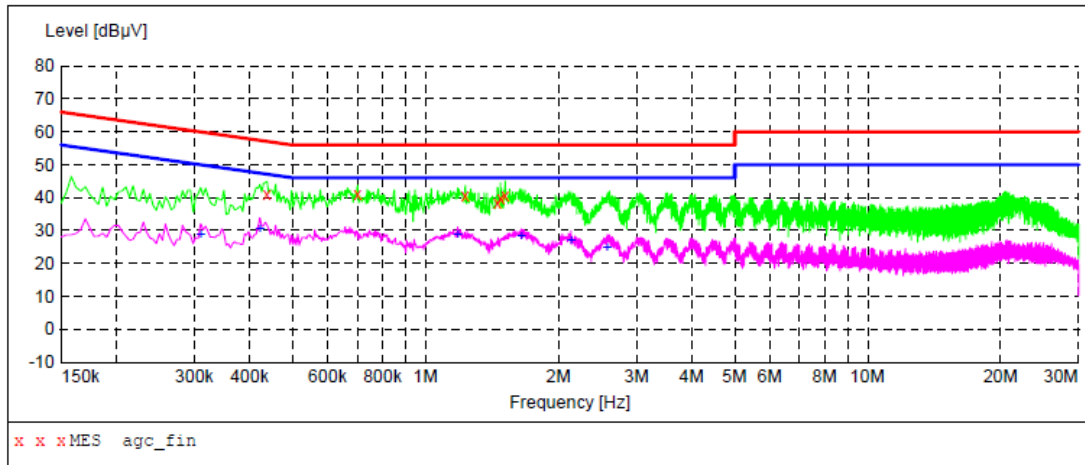
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### 7.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (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 EN55032 (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 EN55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN55032.
- (4) The EUT received AC230V/50Hz power through a Line Impedance Stabilization Network (LISN/AMN) 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.

## 7.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### CONDUCTED EMISSION TEST – L1



#### MEASUREMENT RESULT: "agc\_fin"

2023/3/29 20:56

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.438000	41.20	6.2	57	15.9	QP	L1
0.702000	40.90	6.3	56	15.1	QP	L1
1.230000	40.50	6.3	56	15.5	QP	L1
1.454000	38.40	6.3	56	17.6	QP	L1
1.478000	39.50	6.3	56	16.5	QP	L1
1.514000	40.60	6.3	56	15.4	QP	L1

#### MEASUREMENT RESULT: "agc\_fin2"

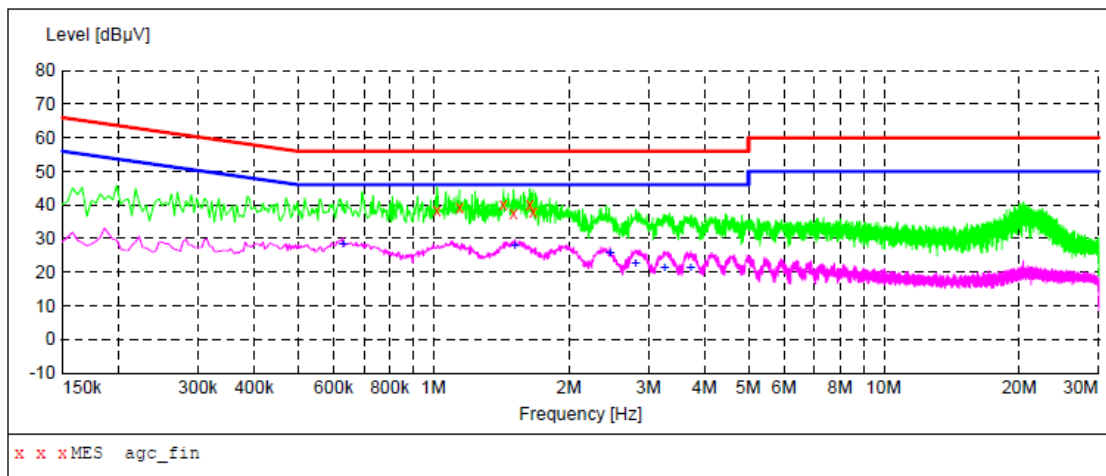
2023/3/29 20:55

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.310000	28.90	6.2	50	21.1	AV	L1
0.422000	30.70	6.2	47	16.7	AV	L1
1.182000	28.60	6.3	46	17.4	AV	L1
1.646000	28.50	6.3	46	17.5	AV	L1
2.134000	27.00	6.3	46	19.0	AV	L1
2.578000	25.00	6.4	46	21.0	AV	L1

**RESULT: PASS**

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### CONDUCTED EMISSION TEST – N



#### MEASUREMENT RESULT: "agc\_fin"

2023/3/29 20:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
1.018000	38.50	6.3	56	17.5	QP	N
1.142000	39.10	6.3	56	16.9	QP	N
1.430000	40.00	6.3	56	16.0	QP	N
1.506000	37.50	6.3	56	18.5	QP	N
1.638000	40.40	6.3	56	15.6	QP	N
1.666000	38.00	6.3	56	18.0	QP	N

#### MEASUREMENT RESULT: "agc\_fin2"

2023/3/29 20:51

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.630000	28.40	6.3	46	17.6	AV	N
1.514000	28.00	6.3	46	18.0	AV	N
2.466000	25.80	6.4	46	20.2	AV	N
2.814000	22.50	6.4	46	23.5	AV	N
3.258000	21.30	6.4	46	24.7	AV	N
3.722000	21.10	6.4	46	24.9	AV	N

**RESULT: PASS**

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## 8. EN 55032 RADIATED EMISSION TEST

### 8.1. LIMITS OF RADIATED DISTURBANCES

Radiated Emission at Frequencies up to 1GHz

For Class B Equipment SAC/OATS

EN 55032 Table clause	Frequency range (MHz)	Distance (m)	Detector type	Limits (dBuV/m)
A4.1	30 - 230	10	Quasi Peak	30
	230 - 1000			37
A4.2	30 - 230	3	Quasi Peak	40
	230 - 1000			47

Radiated Emission at Frequencies above 1GHz

For Class B Equipment FSOATS

EN 55032 Table clause	Frequency range (MHz)	Distance (m)	Detector type	Limits (dBuV/m)
A5.1	1000 - 3000	3	Average	50
	3000 - 6000			54
A5.2	1000 - 3000		Peak	70
	3000 - 6000			74

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

#### Required highest frequency for radiated measurement

EN 55032 Table clause	Highest internal frequency (Fx)	Highest measured frequency
1	$F_x \leq 108 \text{ MHz}$	1 GHz
	$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
	$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
	$F_x > 1$	5 x Fx up to a maximum of 6 GHz

NOTE 1 For TV and FM broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

NOTE 2 Fx is highest fundamental frequency generated or used within the EUT or highest frequency at which it operates.

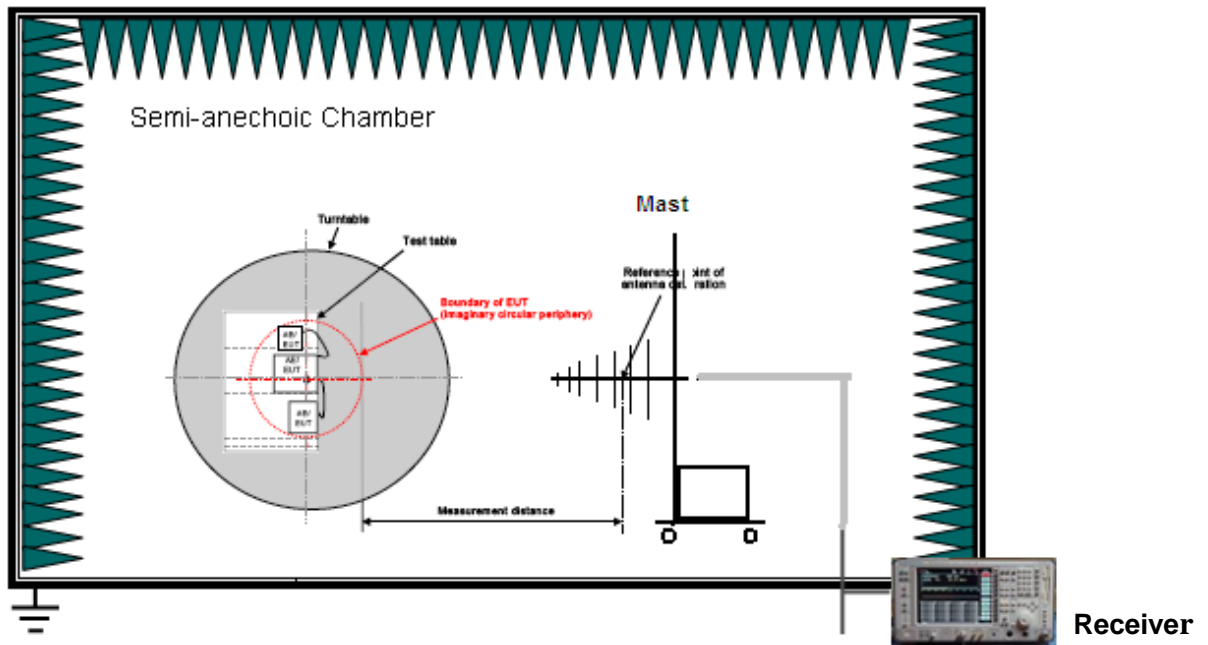
Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.



## 8.2. BLOCK DIAGRAM OF TEST SETUP

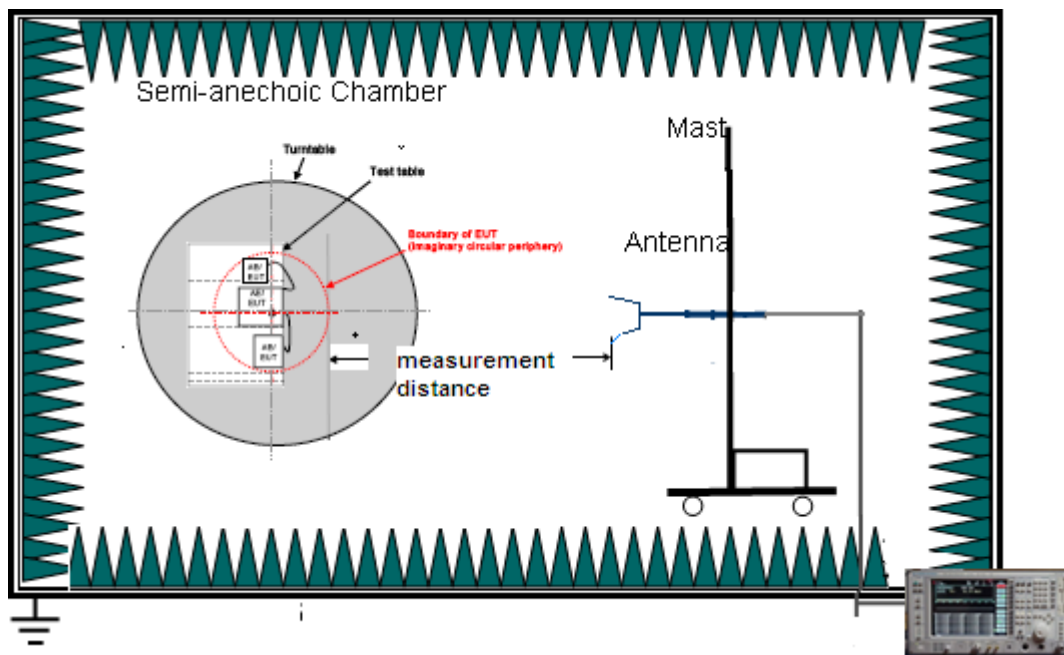
System Diagram of Connections between EUT and Simulators

### Radiated Disturbance 30M to1 GHz



Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.

### Radiated Disturbance above 1 GHz



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 8.3. 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 55032 (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 55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55032.
- (4) The EUT received AC230V/50Hz power through the outlet socket under the turntable. All support equipments received AC230V/50Hz power from socket under the turntable, if any.
- (5) The antenna was placed at 3 meter away from the EUT as stated in EN 55032. 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.
- (6) The Analyzer / Receiver quickly scanned from 1GHz to 6000MHz. The EUT test program was started.
- (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.

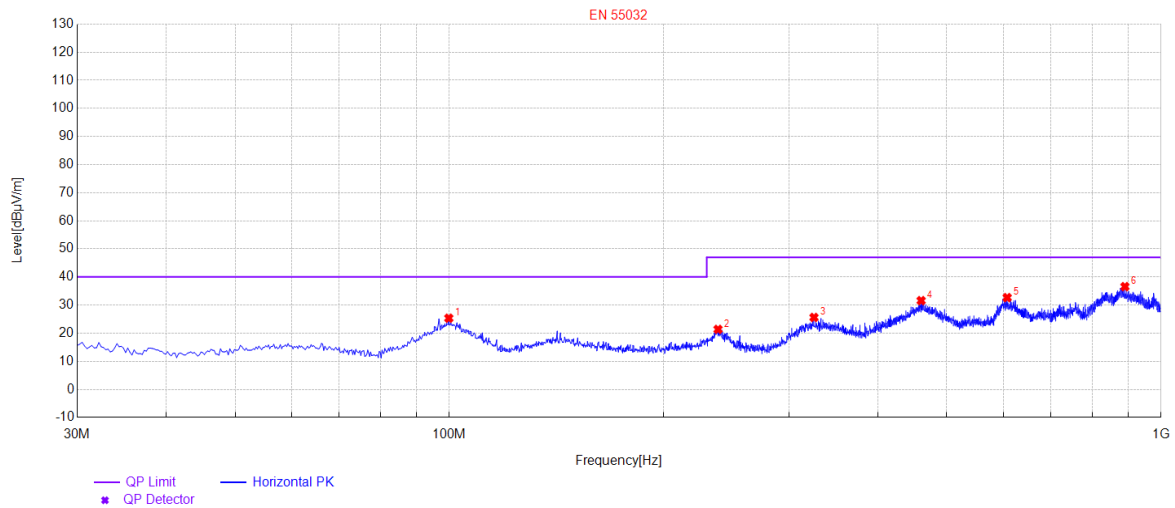
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## 8.4. TEST RESULT OF RADIATED EMISSION TEST

### Below 1G

#### RADIATED EMISSION BELOW 1GHZ– HORIZONTAL



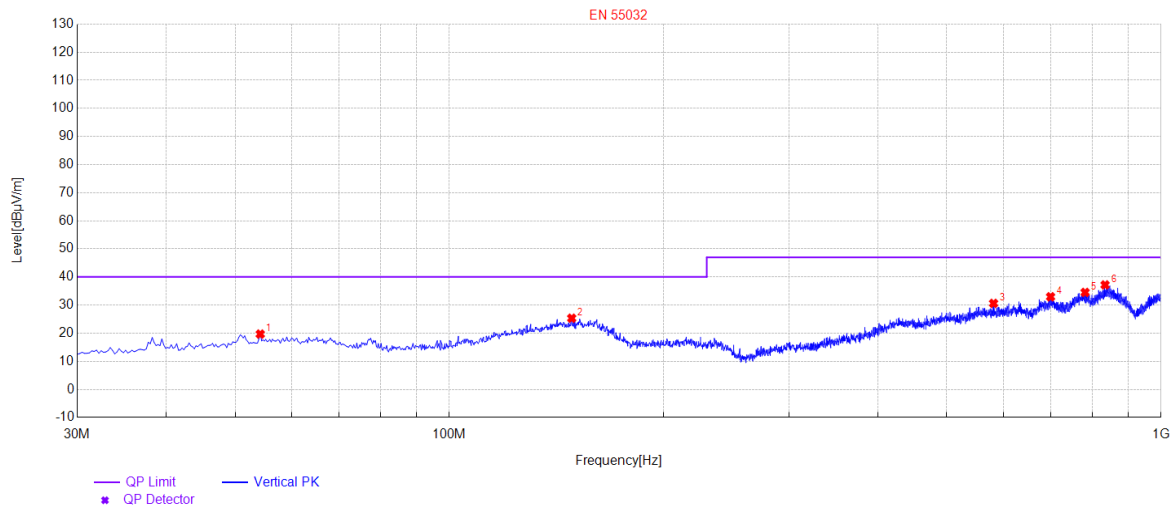
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	99.84	25.33	21.38	40.00	14.67	100	50	Horizontal
2	238.55	21.36	17.30	47.00	25.64	100	180	Horizontal
3	325.365	25.61	21.20	47.00	21.39	100	320	Horizontal
4	460.195	31.58	27.63	47.00	15.42	100	270	Horizontal
5	607.8775	32.66	28.43	47.00	14.34	100	80	Horizontal
6	889.6625	36.56	32.53	47.00	10.44	100	180	Horizontal

**RESULT: PASS**

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### RADIATED EMISSION BELOW 1GHZ– VERTICAL



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.25	19.68	14.00	40.00	20.32	100	310	Vertical
2	148.5825	25.32	20.74	40.00	14.68	100	140	Vertical
3	581.6875	30.60	25.66	47.00	16.40	100	260	Vertical
4	699.5425	32.95	29.03	47.00	14.05	100	70	Vertical
5	782.235	34.50	30.80	47.00	12.50	100	300	Vertical
6	834.3725	37.17	32.26	47.00	9.83	100	280	Vertical

### TEST RESULT: PASS

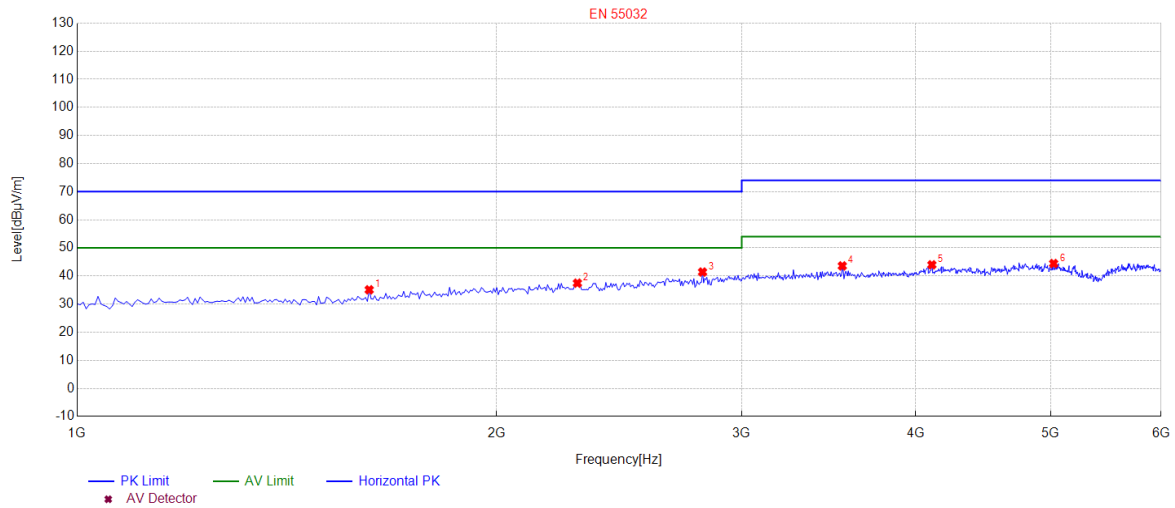
**Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.  
2. The “Factor” value can be calculated automatically by software of measurement system.

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## ABOVE 1GHZ

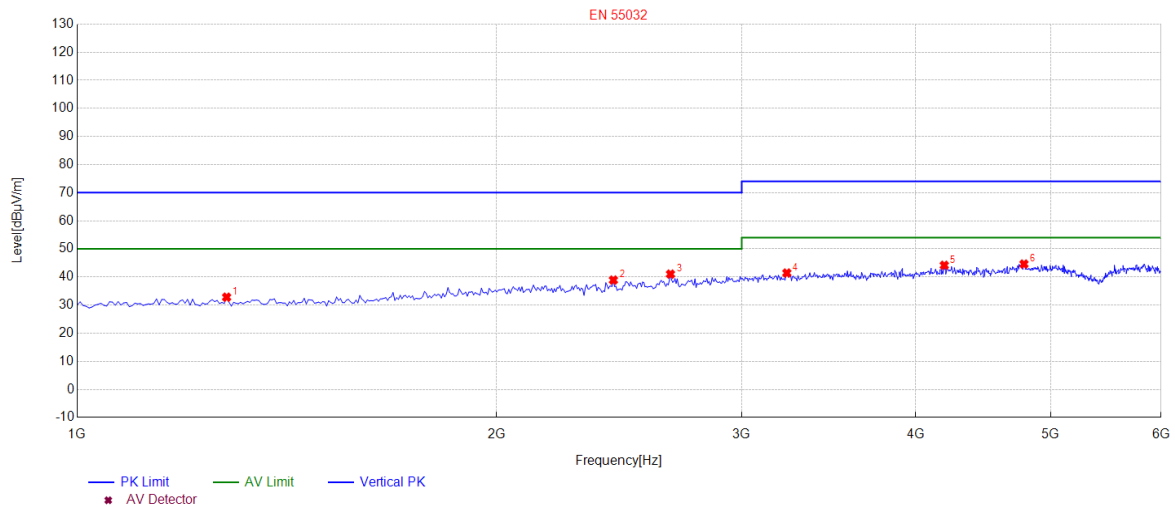
### TEST RESULT OF RADIATED EMISSION TEST –HORIZONTAL



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1620.6206	35.08	-18.99	70.00	34.92	150	120	Horizontal
2	2286.2863	37.45	-14.36	70.00	32.55	150	150	Horizontal
3	2811.8118	41.40	-11.94	70.00	28.60	150	30	Horizontal
4	3542.5425	43.58	-9.56	74.00	30.42	150	140	Horizontal
5	4108.1081	43.97	-7.97	74.00	30.03	150	350	Horizontal
6	5024.024	44.42	-6.33	74.00	29.58	150	160	Horizontal

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## TEST RESULT OF RADIATED EMISSION TEST –VERTICAL



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1280.2803	32.80	-19.89	70.00	37.20	150	260	Vertical
2	2426.4264	38.89	-13.55	70.00	31.11	150	150	Vertical
3	2666.6667	41.01	-12.49	70.00	28.99	150	340	Vertical
4	3232.2322	41.41	-10.52	74.00	32.59	150	300	Vertical
5	4193.1932	44.15	-7.87	74.00	29.85	150	180	Vertical
6	4783.7838	44.60	-6.83	74.00	29.40	150	60	Vertical

### RESULT: PASS

- Note:** 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Measurement.  
2. The “Factor” value can be calculated automatically by software of measurement system.  
3. Only the data of the worst case would be record in this test report.

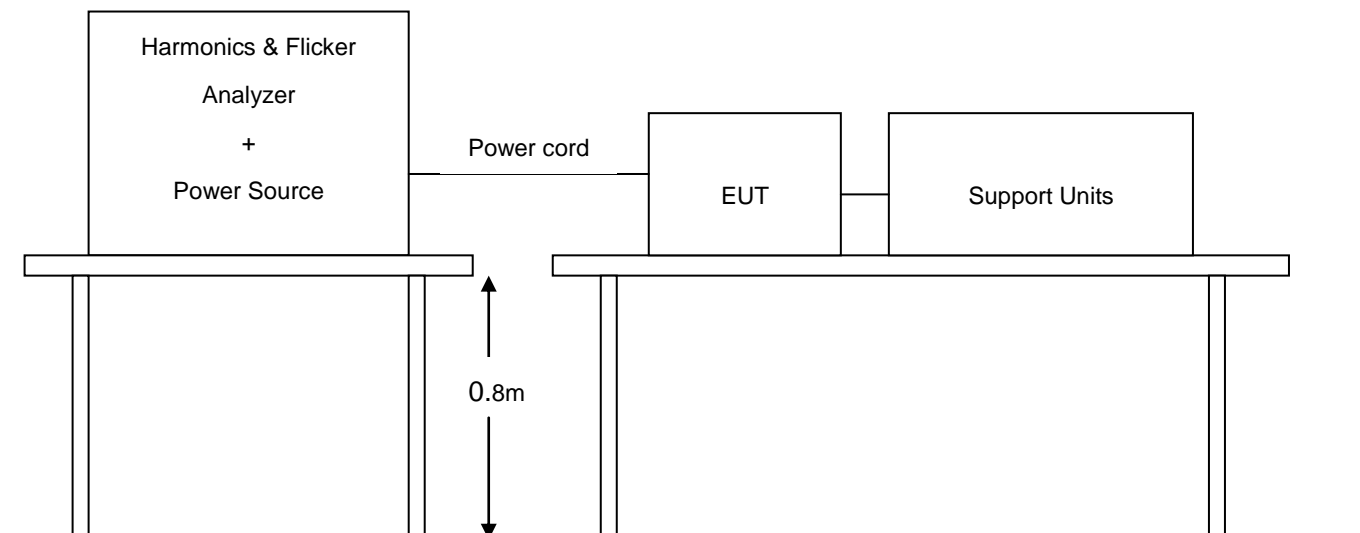
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## 9. EN 61000-3-2 POWER HARMONICS TEST

### POWER HARMONICS MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-2
Product Standard	EN 55035
Limits	<input checked="" type="checkbox"/> CLASS A ; <input type="checkbox"/> CLASS B ; <input type="checkbox"/> CLASS C ; <input type="checkbox"/> CLASS D
Tester	BiBo
Temperature	23.8°C
Humidity	52.7%

#### 9.1. BLOCK DIAGRAM OF TEST SETUP



#### 9.2. RESULT

**Note:** Owing to the power of EUT is less than 50W, so test is not applicable.

## 10. EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST

### VOLTAGE FLUCTUATION/FLICKER MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-3
Product Standard	EN 55035
Limits	§5 of EN 61000-3-3
Tester:	BiBo
Temperature	26°C
Humidity	58%

#### 10.1. LIMITS OF VOLTAGE FLUCTUATION AND FLICKER

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	≤ 4%	Maximum Relative V-change
d (t)	N/A	≤ 3.3% for > 500 ms	Relative V-change characteristic

#### 10.2. TEST PROCEDURE

##### a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

##### b. Fluctuation and Flickers Test:

Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

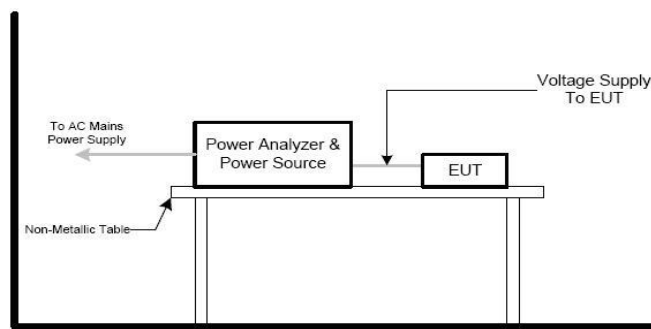
c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 10.3. EUT OPERATING CONDITION

The EUT tested system was configured as the statements of 2.2 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 10.4. BLOCK DIAGRAM OF TEST SETUP



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## 10.5. THE RESULT

Parameter values recorded during the test:

Test Parameter	Measurement Value	Limit	Remarks
$P_{st}$	0.261	1.0	Pass
$P_{lt}$	0.114	0.65	Pass
$T_{dt(s)}$	0.00	0.5	Pass
$d_{max}(\%)$	0.00%	4%	Pass
$d_c(\%)$	0.00%	3.3%	Pass

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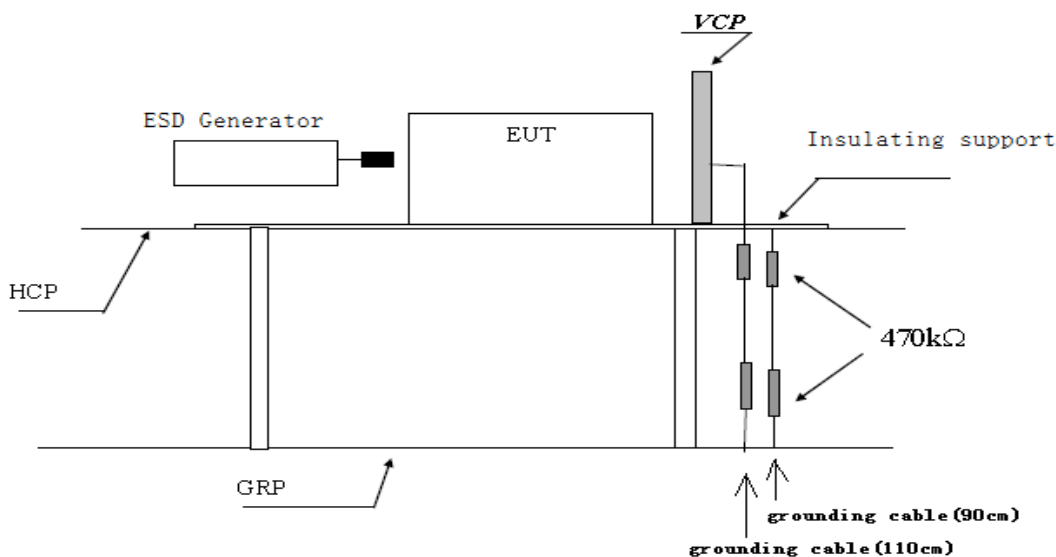
## 11. EN 61000-4-2 ESD IMMUNITY TEST

### ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Product Standard	EN 55035
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	B
Tester	BiBo
Temperature	23°C
Humidity	52%

#### 11.1. BLOCK DIAGRAM OF TEST SETUP

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



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## 11.2. 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 55035; applying direct contact discharge at the sides other than front of EUT at minimum 50 discharges (25 positive and 25 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.

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

## TEST RESULT:

The electrostatic discharges were applied as follows:

Voltage	Coupling	Test Performance	Performance Result	Result (Pass/Fail)
±2kV; ±4kV	Contact Discharge	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge HCP (Front)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge HCP (Left)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge HCP (Back)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge HCP (Right)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge VCP (Front)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge VCP (Left)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge VCP (Back)	No function loss	A	Pass
±2kV; ±4kV	Indirect Discharge VCP (Right)	No function loss	A	Pass
±2kV; ±4kV; ±8kV	Air Discharge	No function loss	A	Pass

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# TEST PLOTS:

**Note:** Blue is air discharging.

Red is contact discharging.



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### 11.3. PERFORMANCE

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

<input checked="" type="checkbox"/> <b>PASS</b>	<input type="checkbox"/> <b>FAIL</b>
-------------------------------------------------	--------------------------------------

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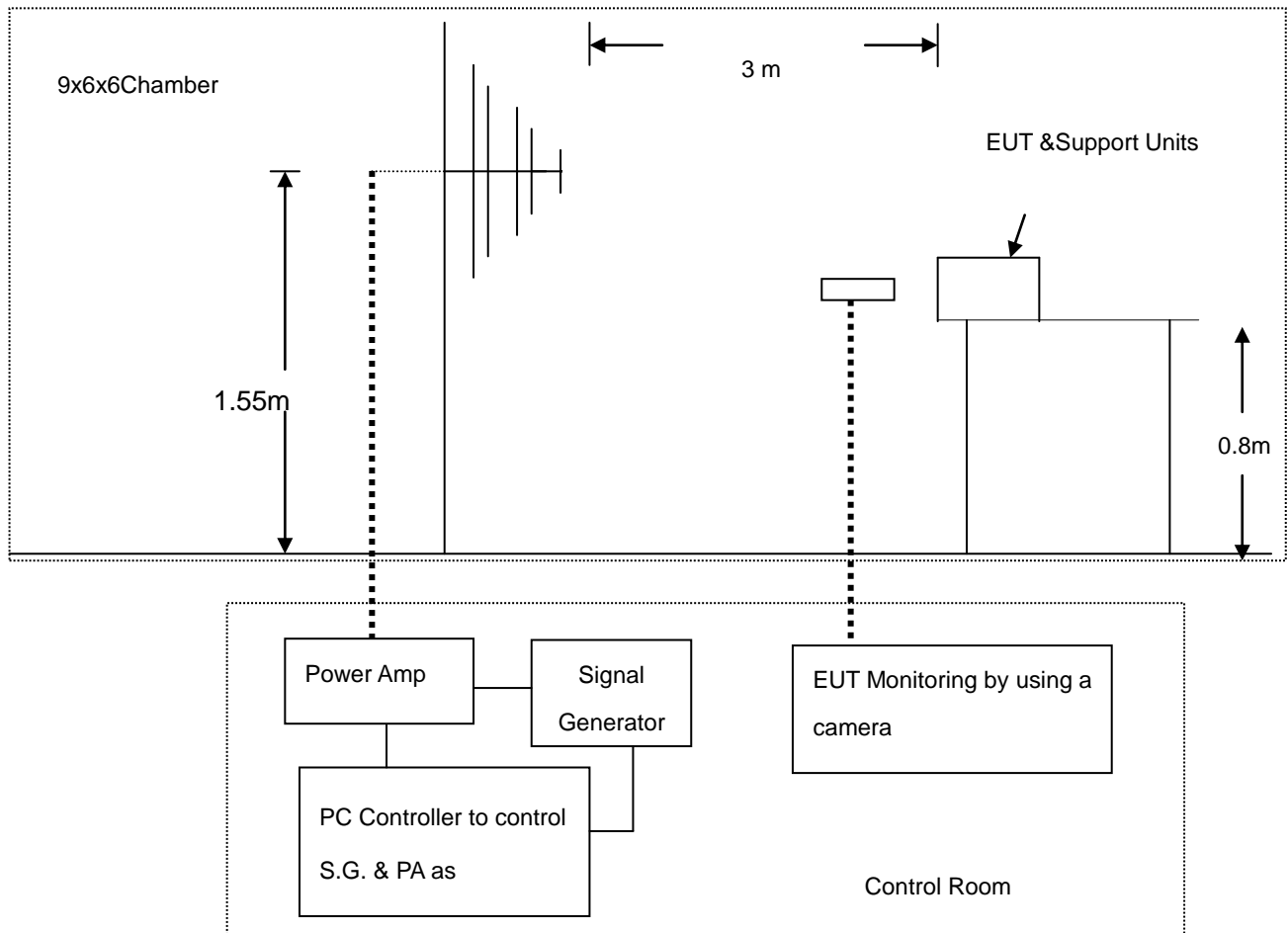
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## 12. EN 61000-4-3 RS IMMUNITY TEST

### RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Product Standard	EN 55035
Test Level:	3V/m with 80% AM. 1kHz Modulation.
Standard require	A
Tester	BiBo
Temperature	23.5°C
Humidity	56.8%

#### 12.1. BLOCK DIAGRAM OF TEST SETUP



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## 12.2. 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 the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 1000MHz , 1,8 GHz, 2,6 GHz, 3,5 GHz, 5 GHz.

Recording the test result in following table.

### EN 61000-4-3 Final test conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

### TEST RESULT:

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Performance Result	Result (Pass/Fail)
80-1000	3V/m	AM	H	Front	No function loss	A	Pass
80-1000	3V/m	AM	H	Left	No function loss	A	Pass
80-1000	3V/m	AM	H	Back	No function loss	A	Pass
80-1000	3V/m	AM	H	Right	No function loss	A	Pass
80-1000	3V/m	AM	V	Front	No function loss	A	Pass
80-1000	3V/m	AM	V	Left	No function loss	A	Pass
80-1000	3V/m	AM	V	Back	No function loss	A	Pass
80-1000	3V/m	AM	V	Right	No function loss	A	Pass
1800	3V/m	AM	H	Front	No function loss	A	Pass
1800	3V/m	AM	H	Left	No function loss	A	Pass
1800	3V/m	AM	H	Back	No function loss	A	Pass
1800	3V/m	AM	H	Right	No function loss	A	Pass
1800	3V/m	AM	V	Front	No function loss	A	Pass
1800	3V/m	AM	V	Left	No function loss	A	Pass
1800	3V/m	AM	V	Back	No function loss	A	Pass
1800	3V/m	AM	V	Right	No function loss	A	Pass
2600	3V/m	AM	H	Front	No function loss	A	Pass
2600	3V/m	AM	H	Left	No function loss	A	Pass
2600	3V/m	AM	H	Back	No function loss	A	Pass

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2600	3V/m	AM	H	Right	No function loss	A	Pass
2600	3V/m	AM	V	Front	No function loss	A	Pass
2600	3V/m	AM	V	Left	No function loss	A	Pass
2600	3V/m	AM	V	Back	No function loss	A	Pass
2600	3V/m	AM	V	Right	No function loss	A	Pass
3500	3V/m	AM	H	Front	No function loss	A	Pass
3500	3V/m	AM	H	Left	No function loss	A	Pass
3500	3V/m	AM	H	Back	No function loss	A	Pass
3500	3V/m	AM	H	Right	No function loss	A	Pass
3500	3V/m	AM	V	Front	No function loss	A	Pass
3500	3V/m	AM	V	Left	No function loss	A	Pass
3500	3V/m	AM	V	Back	No function loss	A	Pass
3500	3V/m	AM	V	Right	No function loss	A	Pass
5000	3V/m	AM	H	Front	No function loss	A	Pass
5000	3V/m	AM	H	Left	No function loss	A	Pass
5000	3V/m	AM	H	Back	No function loss	A	Pass
5000	3V/m	AM	H	Right	No function loss	A	Pass
5000	3V/m	AM	V	Front	No function loss	A	Pass
5000	3V/m	AM	V	Left	No function loss	A	Pass
5000	3V/m	AM	V	Back	No function loss	A	Pass
5000	3V/m	AM	V	Right	No function loss	A	Pass

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### 12.3. PERFORMANCE

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

<input checked="" type="checkbox"/> <b>PASS</b> <input type="checkbox"/> <b>FAIL</b>
--------------------------------------------------------------------------------------

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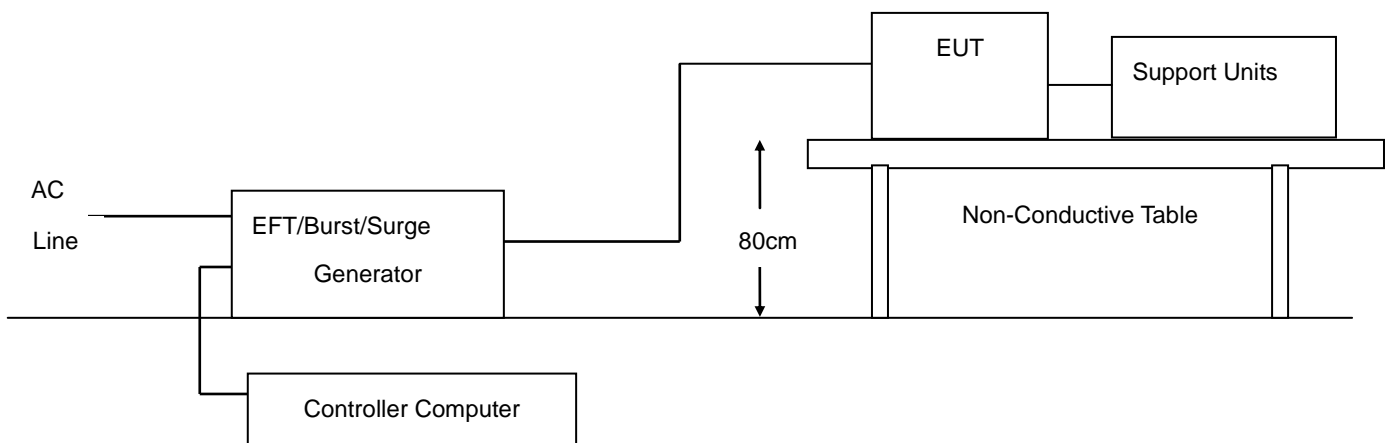


### 13. EN 61000-4-4 EFT IMMUNITY TEST

#### ELECTRICAL FAST TRANSIENTS/BURST IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-4
Product Standard	EN 55035
Test Level	+/- 1kV for Power Supply Lines
Standard require	B
Tester	BiBo
Temperature	23°C
Humidity	62%

#### 13.1. BLOCK DIAGRAM OF TEST SETUP



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### 13.2. 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

#### TEST RESULT:

Inject Line	Voltage kV	Inject Method	Test Performance	Performance Result	Result (Pass/Fail)
L+N	+/- 1	Indirect	No function loss	A	Pass

### 13.3. PERFORMANCE

EN 55035

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

<input checked="" type="checkbox"/> <b>PASS</b>	<input type="checkbox"/> <b>FAIL</b>
-------------------------------------------------	--------------------------------------

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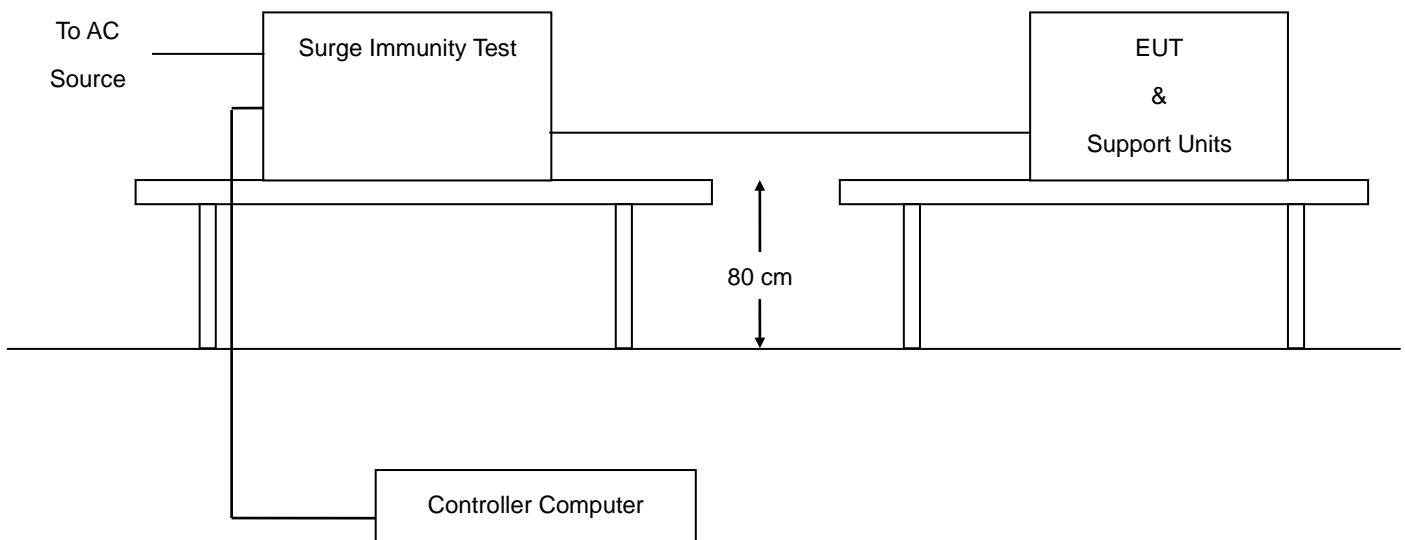
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#### 14. EN 61000-4-5 SURGE IMMUNITY TEST

##### SURGE IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-5
Product Standard	EN 55035
Requirements	+/- 1kV (Line to Line) +/- 2kV (Line to Grand)
Standard require	B
Tester	BiBo
Temperature	23°C
Humidity	62%

##### 14.1. BLOCK DIAGRAM OF TEST SETUP



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#### 14.2. 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 $\mu$ s
Current Waveform	8/20 $\mu$ s
Polarity	Positive/Negative
Phase angle	0°, 180°, 90°, 270°
Number of Test	5

#### TEST RESULT:

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

#### 14.3. PERFORMANCE

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	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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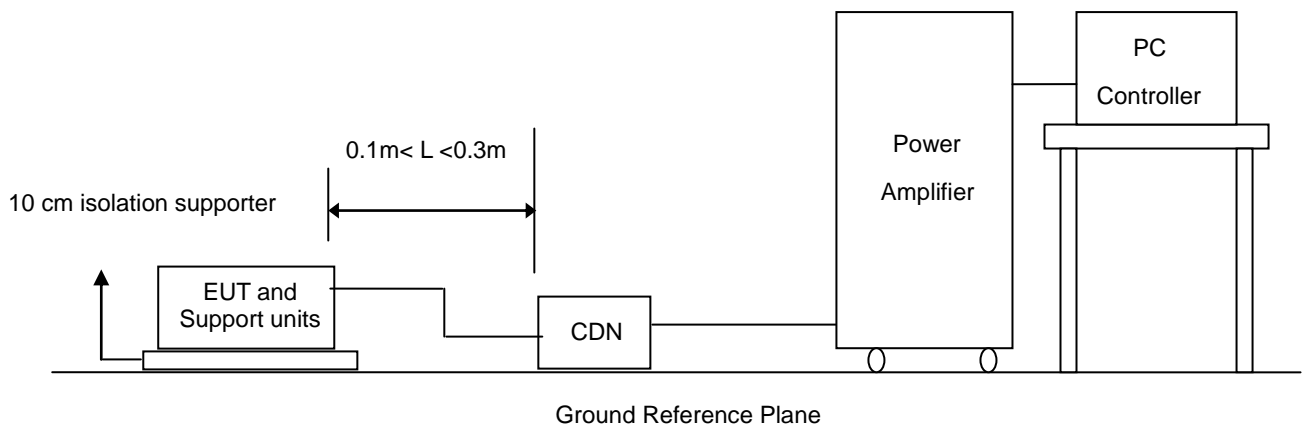
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## 15. EN 61000-4-6 CS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-6
Product Standard	EN 55035
Requirements	0.15 MHz ~10MHz 3V with 80% AM. 1 kHz Modulation 10 MHz ~30MHz 3V to 1V with 80% AM. 1 kHz Modulation 30 MHz ~80MHz 1V with 80% AM. 1 kHz Modulation
Standard require	A
Tester	BiBo
Temperature	23°C
Humidity	52%

### 15.1. BLOCK DIAGRAM OF TEST SETUP



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## 15.2. 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

### TEST RESULT:

Range (MHz)	Strength	Modulation	Performance Result	Result (Pass/Fail)
0.15-10	3V	AM	A	Pass
10-30	3V to 1V	AM	A	Pass
30-80	1V	AM	A	Pass

## 15.3. PERFORMANCE

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

<input checked="" type="checkbox"/> <b>PASS</b>	<input type="checkbox"/> <b>FAIL</b>
-------------------------------------------------	--------------------------------------

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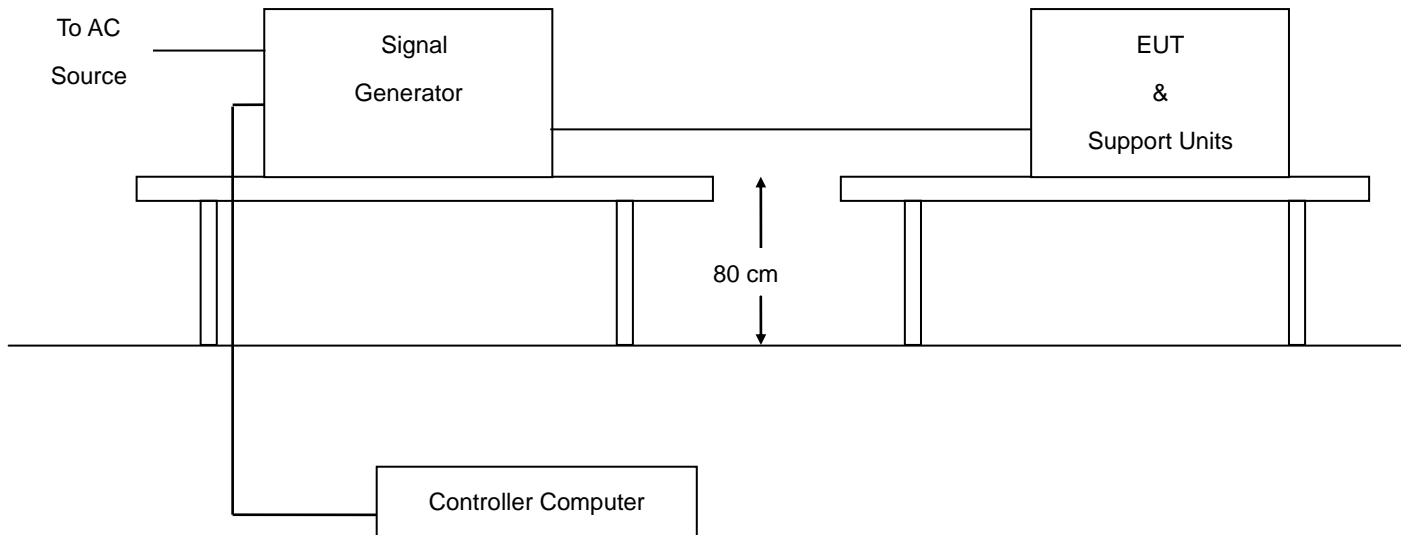
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## 16. EN 61000-4-8 PFMF TEST

### POWER FREQUENCY MAGNETIC FIELDS IMMUNITY TEST

<b>Port</b>	Enclosure
<b>Basic Standard</b>	EN 61000-4-8
<b>Product Standard</b>	EN 55035
<b>Requirements</b>	50/60 Hz, 1A/m
<b>Standard require</b>	A
<b>Tester</b>	BiBo
<b>Temperature</b>	23°C
<b>Humidity</b>	62%

#### 16.1. BLOCK DIAGRAM OF TEST SETUP



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## 16.2. TEST PROCEDURE

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1m × 1m). The induction coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.

### Test Conditions:

Frequency	Polarity	Level	Test Performance	Performance Result	Result
50 Hz	X	1 A/m	No function loss	A	N/A
50 Hz	Y	1 A/m	No function loss	A	N/A
50 Hz	Z	1 A/m	No function loss	A	N/A

### TEST RESULT:

## 16.3. PERFORMANCE & RESULT

N/A

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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## 17. EN 61000-4-11 DIPS IMMUNITY TEST

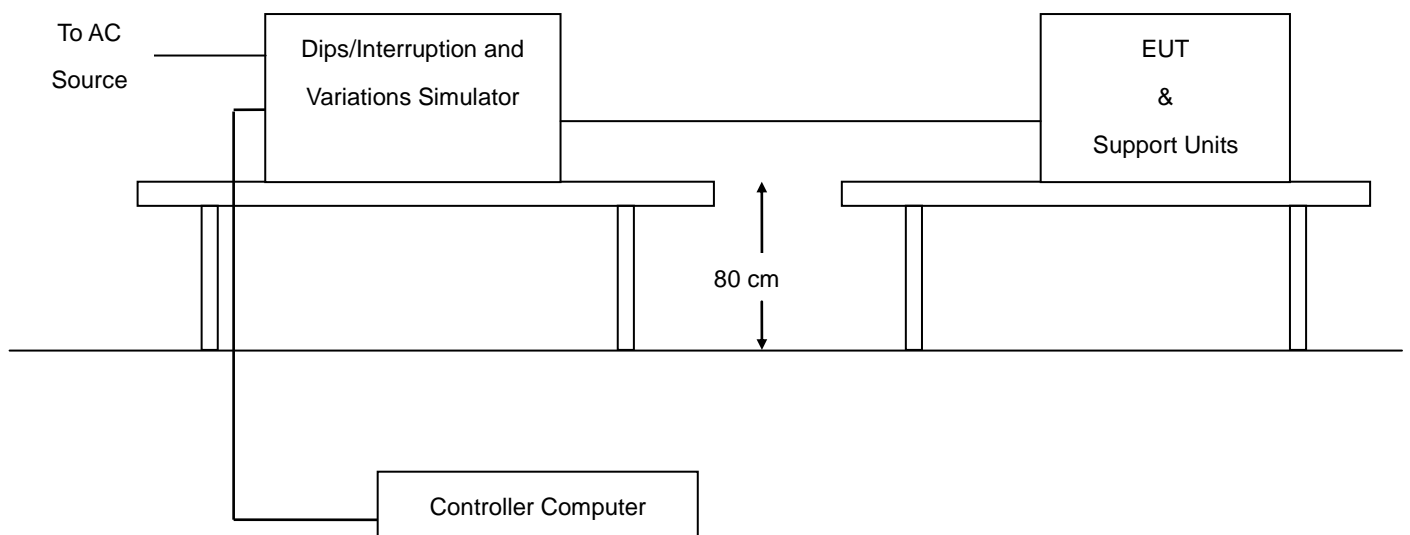
### VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-11
Product Standard	EN 55035
Requirements	0, 45, 90, 135, 180, 225, 270, 315 degrees
Test Interval	Min. 10 sec.
Tester	BiBo
Temperature	23°C
Humidity	62%

Voltage Dips	Test Level % U <sub>T</sub>	Reduction (%)	Duration ( periods )	Performance Criteria
	<5	>95	0.5	B
	70	30	25	C

Voltage Interruptions	Test Level % U <sub>T</sub>	Reduction (%)	Duration ( periods )	Performance Criteria
	<5	>95	250	C

### 17.1. BLOCK DIAGRAM OF TEST SETUP



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## 17.2. 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)

## TEST RESULT:

### Voltage Dips:

Test Level % $U_T$	Reduction (%)	Duration ( periods)	Observation	Performance Result	Result (Pass/Fail)
<5	>95	0.5	Normal	A	Pass
70	30	25	Normal	A	Pass

### Voltage Interruptions:

Test Level % $U_T$	Reduction (%)	Duration ( periods)	Observation	Performance Result	Result (Pass/Fail)
<5	>95	250	Stop charging	B	Pass

## 17.3. INTERPRETATION

<input checked="" type="checkbox"/> <b>Criteria A:</b>	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.
<input checked="" type="checkbox"/> <b>Criteria B:</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.
<input type="checkbox"/> <b>Criteria C:</b>	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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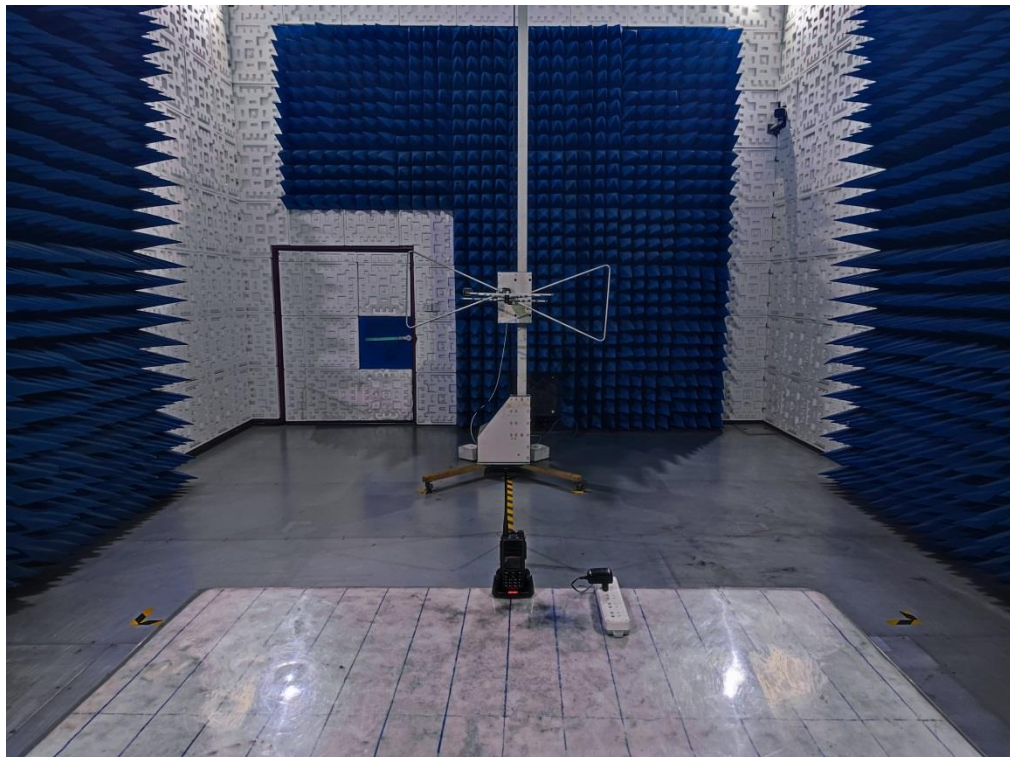
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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### CONDUCTED EMISSION TEST SETUP



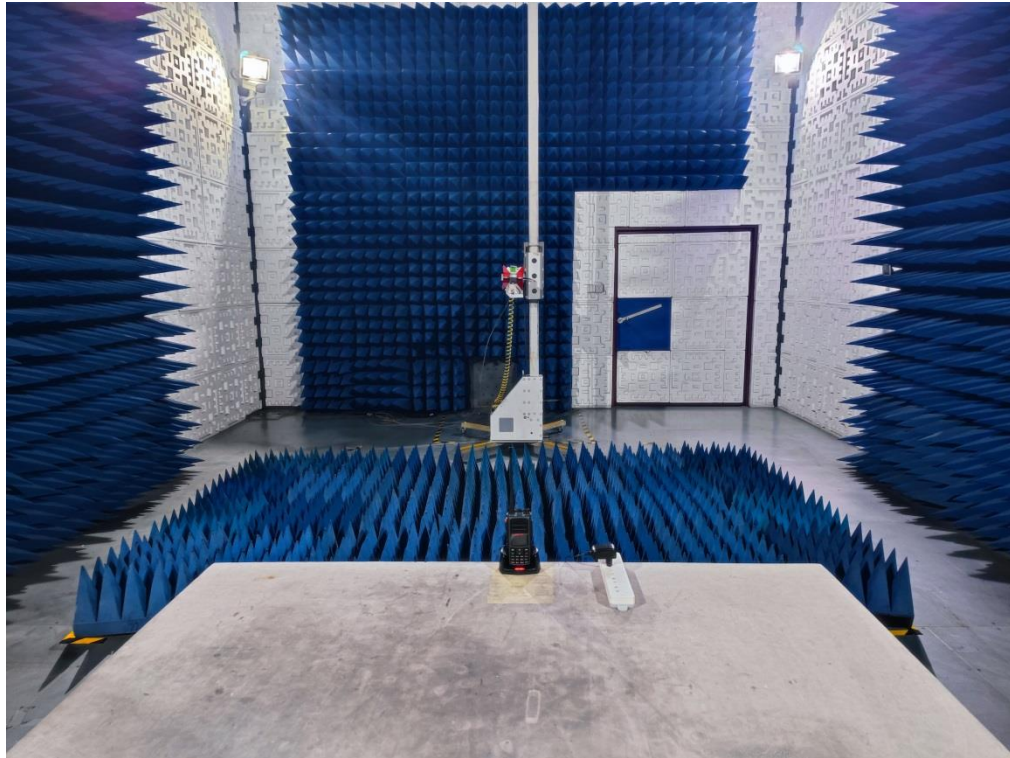
### RADIATED EMISSION TEST SETUP



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### RADIATED EMISSION ABOVE 1G TEST SETUP



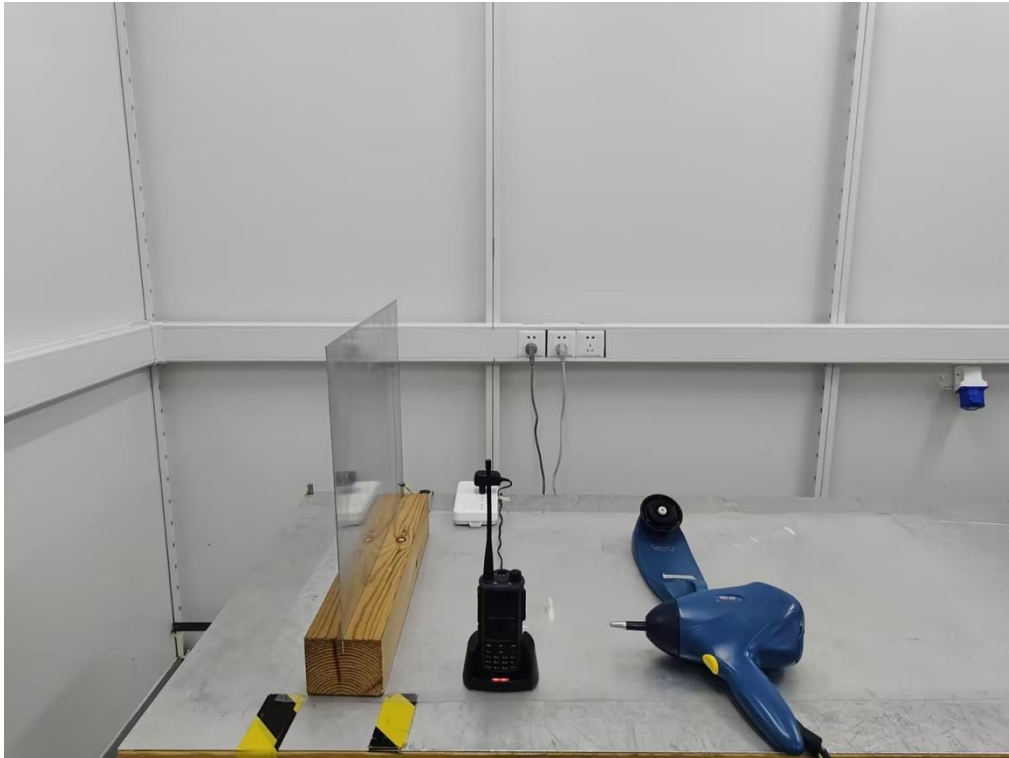
### EN 61000-3-3 VOLTAGE FLUCTUATION/FLICKER TEST SETUP



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### ESD IMMUNITY TEST SETUP



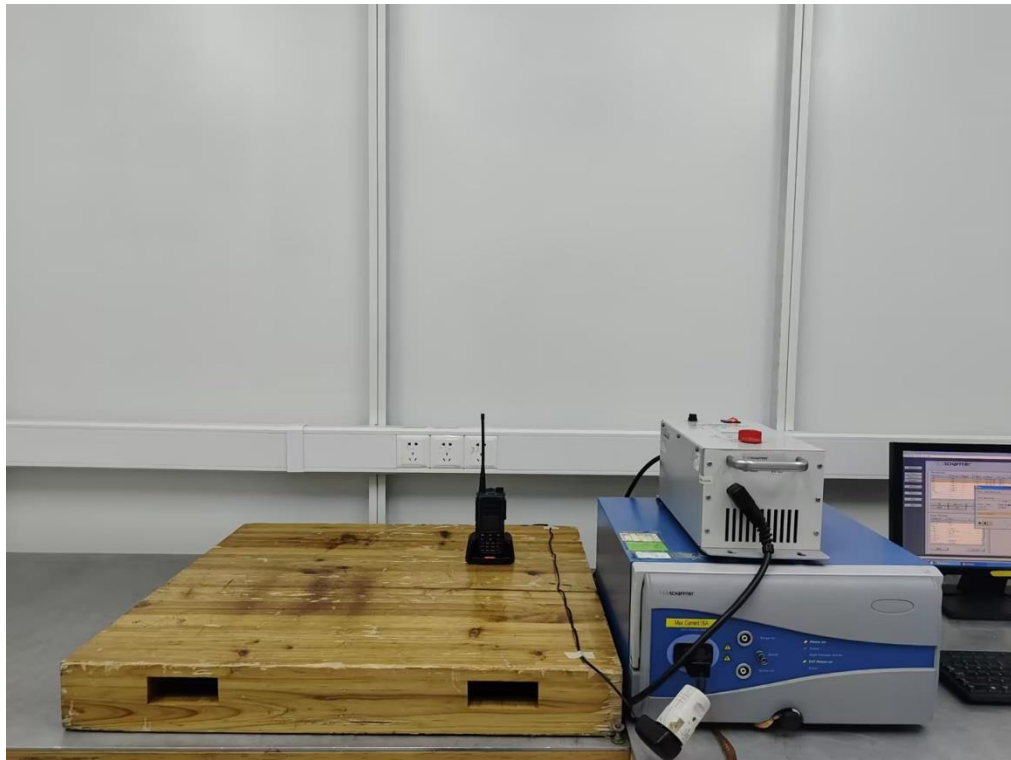
### CS IMMUNITY TEST SETUP



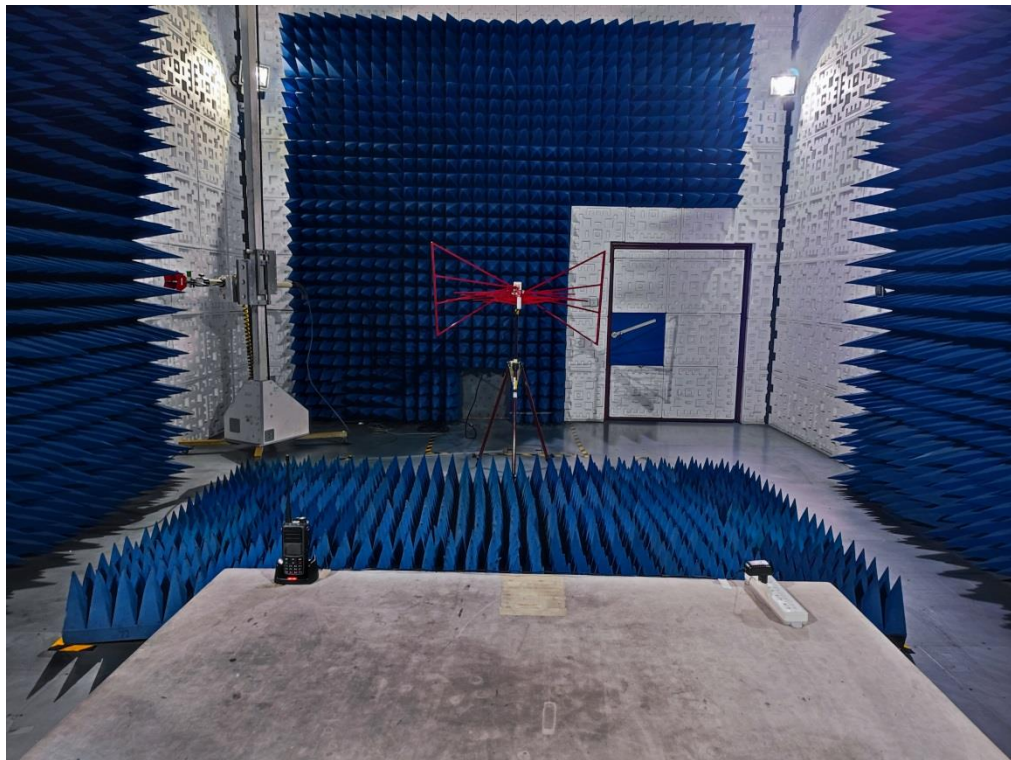
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### SRUGE/DIPS/EFT IMMUNITY TEST SETUP

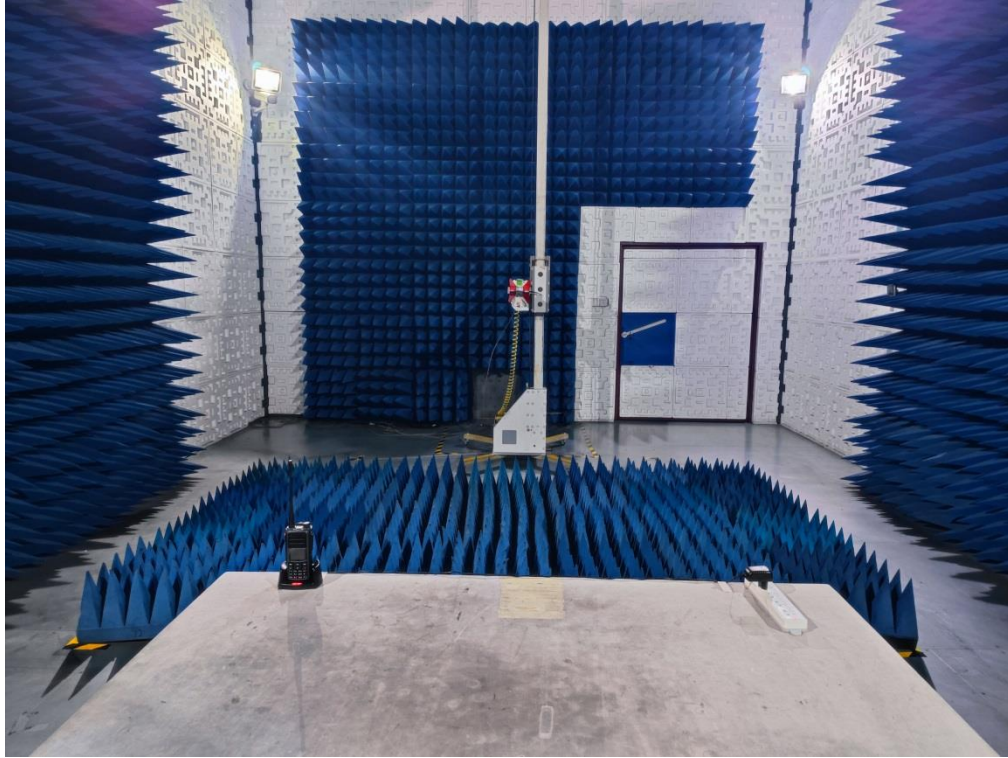


### RS IMMUNITY TEST SETUP



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

**---END OF REPORT---**

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).

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