EMC Test Report

Report No.: AGC01832160201EE01

PRODUCT DESIGNATION	:	Low Power LED
BRAND NAME	:	ACCLAIM LIGHTING
MODEL NAME	:	AL-DOT
CLIENT	:	Acclaim Lighting LLC
DATE OF ISSUE	:	Feb.29, 2016
STANDARD(S)	:	EN 55015:2013 EN 61547:2009
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Feb.29, 2016	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Acclaim Lighting LLC
Address	6122 S. Eastern Ave., LOS ANGELES, CA 90040, USA
Manufacturer	Rnet Lighting Company Limited
Address	#99A 10-303, Carnel Industrial Park, Linchun, Tangxia Town, Dongguan, Guangdong, China
Product Designation	Low Power LED
Brand Name	ACCLAIM LIGHTING
Test Model	AL-DOT
Date of test	Feb.25, 2016 to Feb.28, 2016
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-EC-LT/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.

Tested By	Stone Zhou(Zhou Dong)	Feb.29, 2016
Reviewed By	Rock Huang(Huang Dinglue)	Feb.29, 2016
Approved By	Solger Zhang(Zhang Hongyi) Authorized Officer	Feb.29, 2016

2. SYSTEM DESCRIPTION

TEST MODE DESCRIPTION		
NO.	**TEST MODE DESCRIPTION**	**WORST**
1	Normal	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 Radiated Emission, Uc = ±3.2dB

4. PRODUCT INFORMATION

Housing Type	Plastic and metal
EUT Input Rating	DC 24V 1.5W max

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

I/O Port of EUT			
I/O Port Type	**Number**	**Cable Description**	**Tested With**
Control input port	1	0.65m unshielded	1

5. SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
DC Power Supply	--	RXN-605D	2009002712	--	--
LED Driver	SC	KV-24150-A-DIM	--	--	--

6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	2015.07.31	2016.07.30
LISN	R&S	ESH2-Z5	100086	2015.09.05	2016.09.04

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	2015.07.31	2016.07.30
ANTENNA	SCHWARZBECK	VULB9168	494	2015.03.20	2016.03.19

TEST EQUIPMENT OF DISTURBANCE POWER EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	2015.07.31	2016.07.30
ABSORBINFCLAMP	R&S	MDS21	3671	2015.03.20	2016.03.19

TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	Schaffner	NSG 438	782	2015.11.18	2016.11.17

TEST EQUIPMENT OF RS IMMUNITY TEST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
SIGNAL GENERATOR	R&S	E4421B	102525	2015.07.23	2016.07.22
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	2015.03.20	2016.03.19
POWER SENSOR	R&S	URV5-Z4	100124	2015.07.29	2016.07.28
POWER METER	R&S	NRVD	832378/027	2015.07.29	2016.07.28
POWER AMPLIFIER	KALMUS	7100LC	04-02/17-06-001	2015.07.23	2016.07.22
RF AMPLIFIER	Milmega	AS01004-55_55	1004793	2015.07.23	2016.07.22

7. TEST ITEMS AND THE RESULTS

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 55015	EN 55015	0.009MHz -30MHz	Pass
RADIATED EMISSION	EN 55015	EN 55015	30MHz -300MHz	Pass
RADIATED ELECTROMAGNETIC DISTURBANCE	EN 55015	EN 55015	0.009MHz -30MHz	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class C	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	N/A
Electrostatic Discharge Immunity	EN 61547	EN 61000-4-2	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 61547	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation.	Pass
Electrical fast transient/burst Immunity	EN 61547	EN 61000-4-4	+/- 1kV for Power Supply Lines	N/A
SURGE IMMUNITY	EN 61547	EN 61000-4-5	>25W +/-1kV (Line to Line) +/-2kV (Line to Ground) <25W +/-0.5kV (Line to Line) +/-1kV (Line to Ground)	N/A
Immunity to Conducted Disturbances Induced by RF fields	EN 61547	EN 61000-4-6	3V with 80% AM. 1 kHz Modulation	N/A
Power Frequency Magnetic Fields	EN61547	EN61000-4-8	50/60 Hz, 3A/m	N/A
Voltage dips and short interruptions immunity	EN 61547	EN 61000-4-11	PHASE ANGLE 0, 45, 90, 135, 180, 225, 270, 315 degrees	N/A

Note：N/A means not applicable.

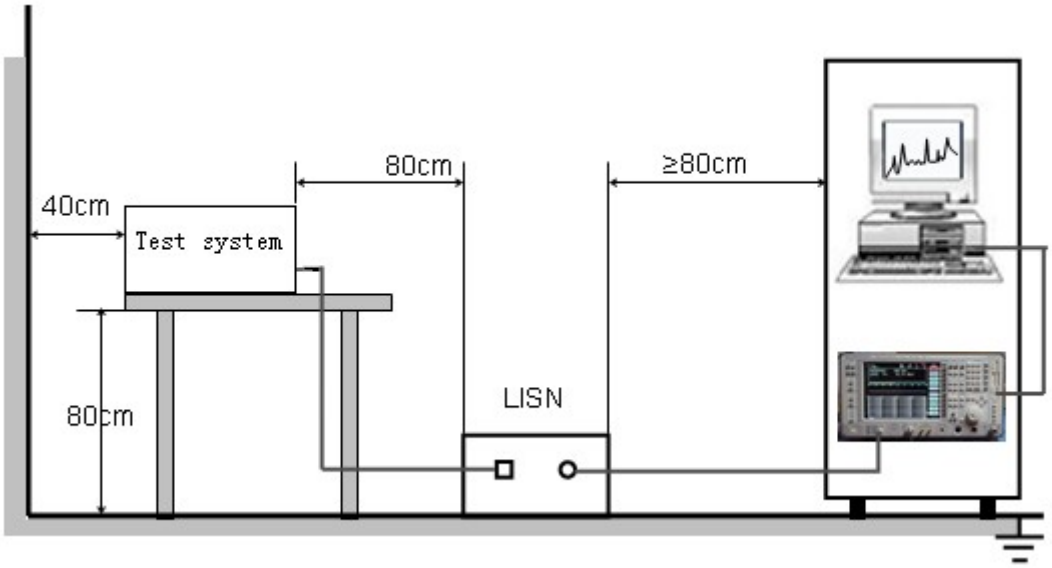
8. EN 55015 LINE CONDUCTED EMISSION TEST

8.1. LIMITS OF LINE CONDUCTED EMISSION TEST AT MAINS TERMINALS

Frequency Range	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
9 KHz-50 KHz	110	--
50 KHz-150 KHz	90-80	--
150 kHz-500 kHz	66-56	56-46
500 kHz-5.0 MHz	56	46
5.0 MHz-30.0 MHz	60	50

Note:
1. At the transition frequency, the lower limit applies.
2. The limit decreases linearly with the logarithm of the frequency in the range 50 KHz to 150 KHz and 150 KHz to 0.5 MHz.

8.2. BLOCK DIAGRAM OF TEST SETUP



8.3. 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 EN55015 (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 EN55015.

(3) All I/O cables were positioned to simulate typical actual usage as per EN55015.

(4) The EUT received AC230V/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 9 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) The test mode(s) were scanned during the test

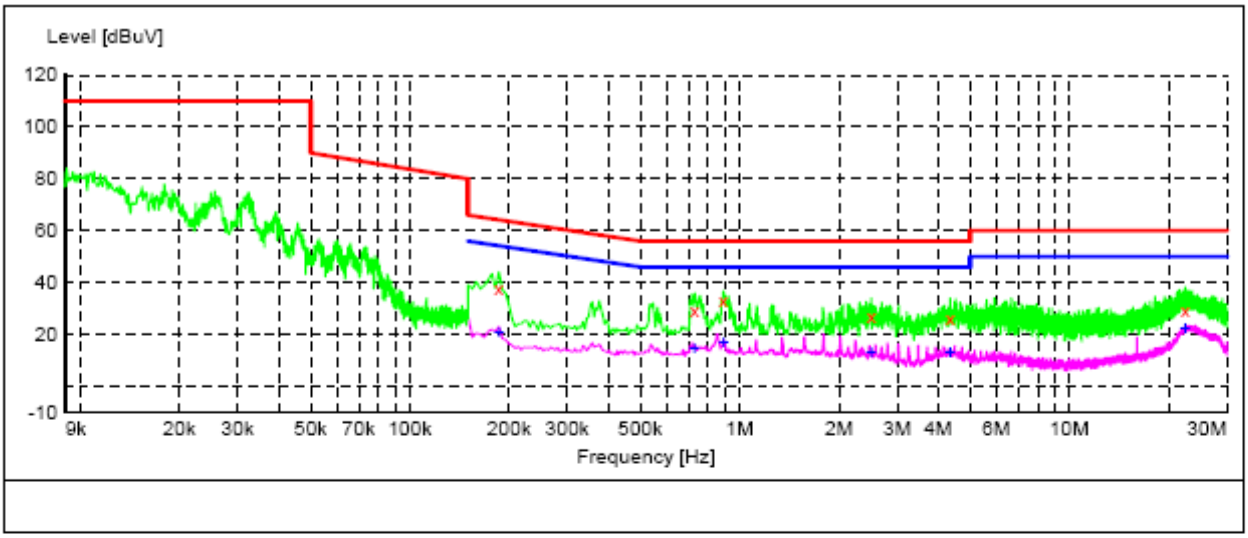
(10) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.

(11) 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.

The test data of the worst case condition(s) was reported on the Summary Data page.

8.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT:

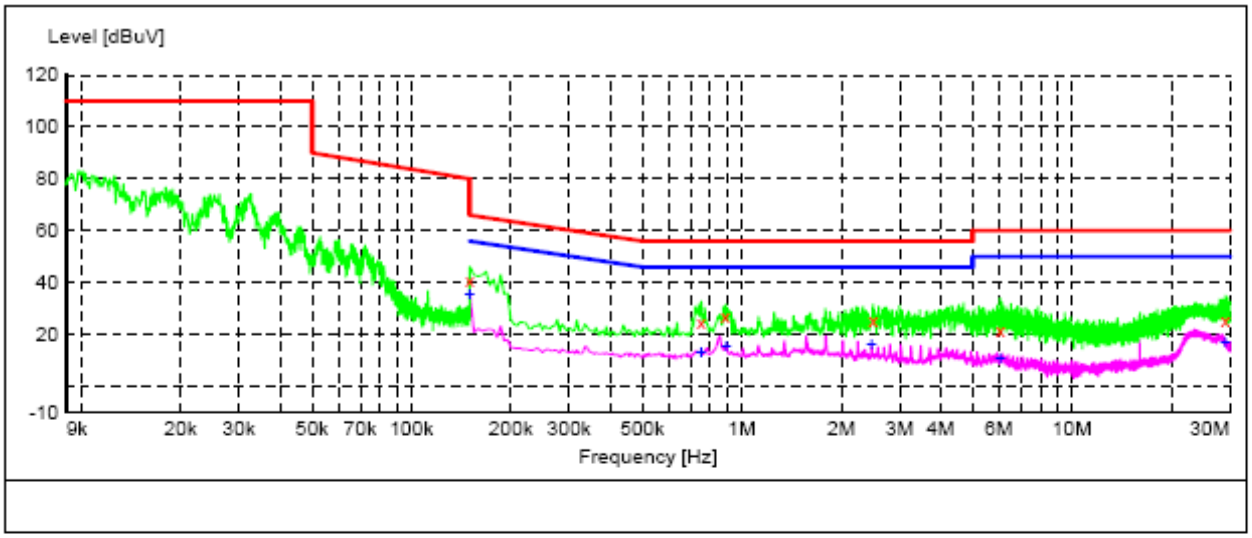
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBuV	dB	dBuV	dB		
0.186000	37.40	3.6	64	26.8	QP	L1
0.730500	28.90	3.7	56	27.1	QP	L1
0.892500	33.40	3.7	56	22.6	QP	L1
2.503500	26.70	3.7	56	29.3	QP	L1
4.344000	26.20	3.8	56	29.8	QP	L1
22.402500	29.10	4.3	60	30.9	QP	L1

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBuV	dB	dBuV	dB		
0.186000	20.60	3.6	54	33.6	AV	L1
0.730500	14.80	3.7	46	31.2	AV	L1
0.892500	17.20	3.7	46	28.8	AV	L1
2.503500	12.90	3.7	46	33.1	AV	L1
4.344000	13.00	3.8	46	33.0	AV	L1
22.402500	22.30	4.3	50	27.7	AV	L1

RESULT: PASS

LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBuV	dB	dBuV	dB		
0.150000	40.60	3.7	80	39.4	QP	N
0.753000	24.50	3.7	56	31.5	QP	N
0.892500	26.70	3.7	56	29.3	QP	N
2.494500	25.20	3.7	56	30.8	QP	N
6.054000	21.70	3.9	60	38.3	QP	N
29.103000	25.10	4.3	60	34.9	QP	N

MEASUREMENT RESULT:

Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBuV	dB	dBuV	dB		
0.150000	35.70	3.7	56	20.3	AV	N
0.753000	12.90	3.7	46	33.1	AV	N
0.897000	15.30	3.7	46	30.7	AV	N
2.467500	16.30	3.7	46	29.7	AV	N
6.054000	11.10	3.9	50	38.9	AV	N
29.103000	16.80	4.3	50	33.2	AV	N

RESULT: PASS

9. EN 55015 RADIATED EMISSION TEST

9.1. LIMITS OF RADIATED DISTURBANCES

AT 10M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	10	30.00
230-300	10	37.00

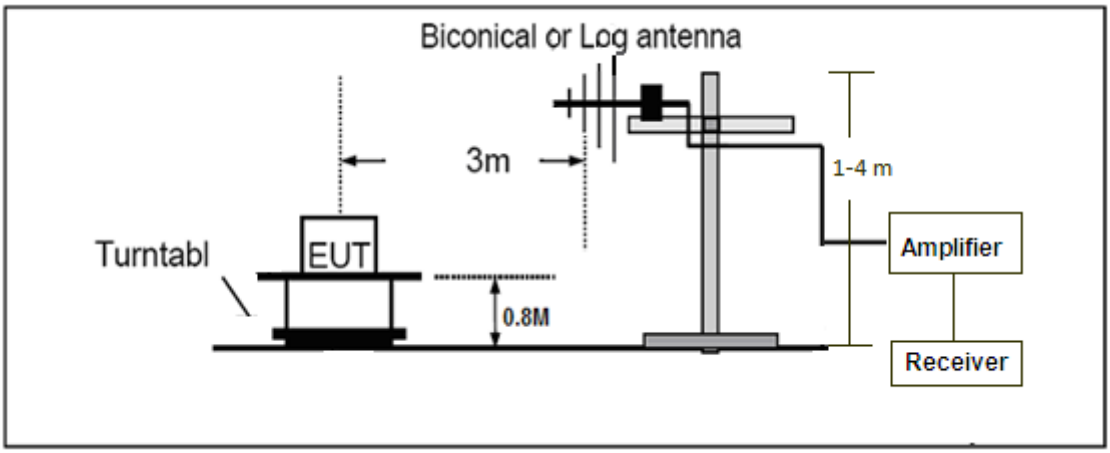
AT 3M DISTANCES

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-230	3	40.00
230-300	3	47.00

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

9.2. BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators



9.3. 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 55015 (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 55015.

(3) All I/O cables were positioned to simulate typical actual usage as per EN 55015.

(4) The EUT was turned on.

(5) The antenna was placed at 3 meters away from the EUT as stated in EN 55015. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.

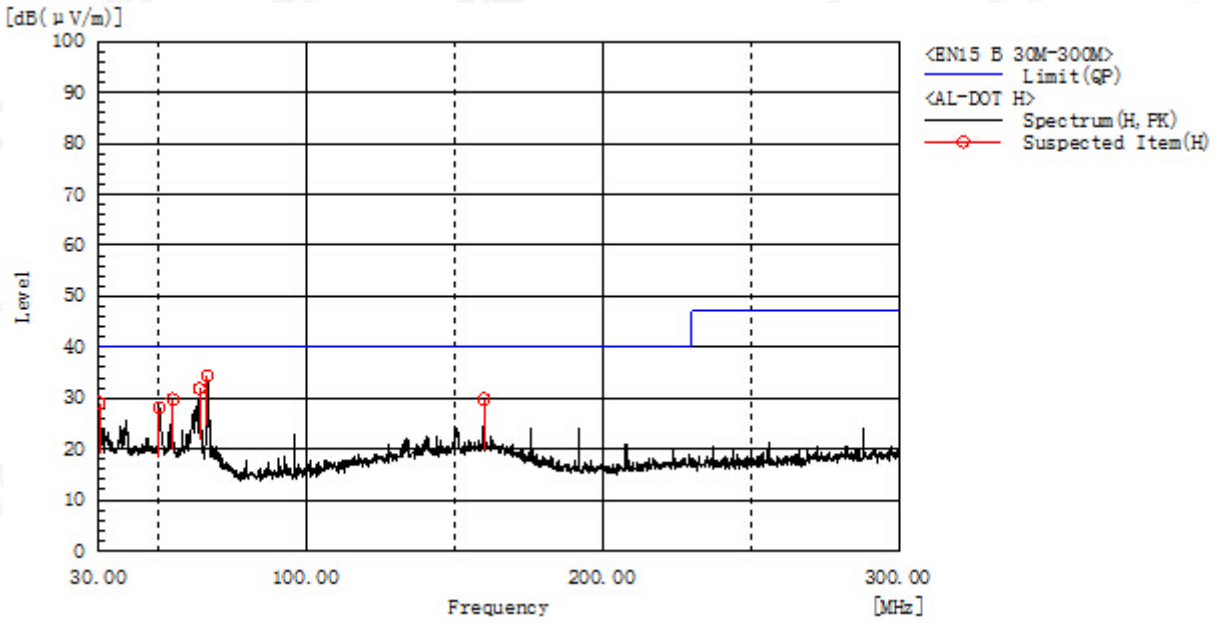
(6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize 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.

9.4. TEST RESULT OF RADIATED EMISSION TEST

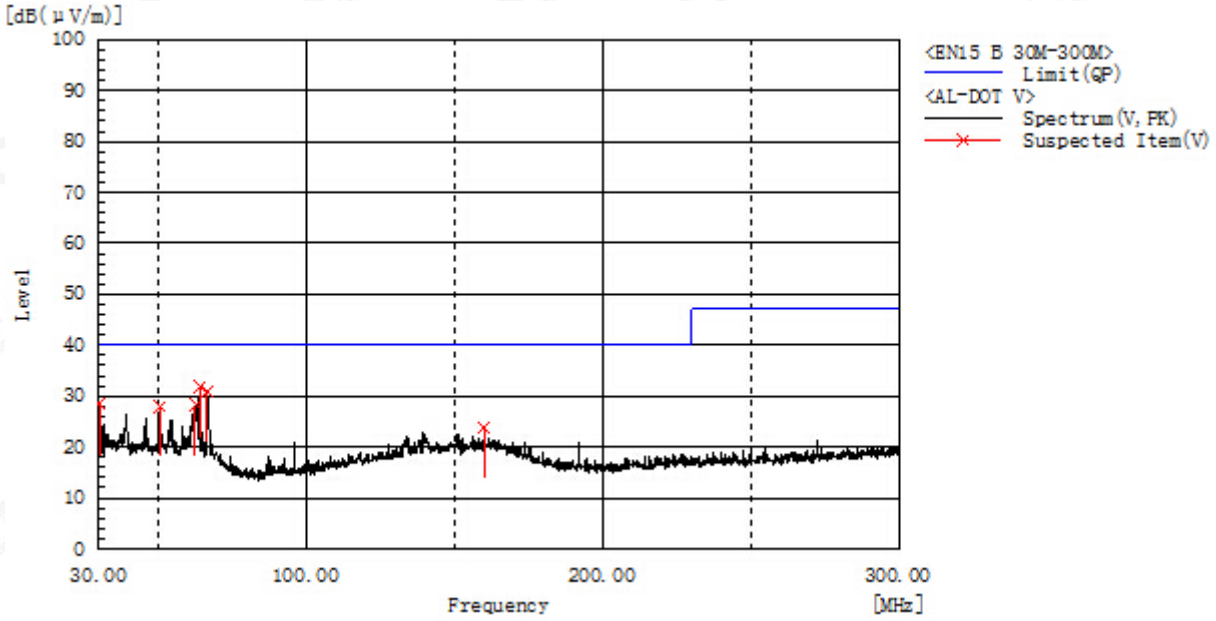
Radiated Emission Test at 3m Distance-Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.135	H	15.7	13.4	29.1	40.0	10.9	Pass	100.0	297.2
50.385	H	13.3	14.8	28.1	40.0	11.9	Pass	200.0	215.4
54.975	H	15.4	14.4	29.8	40.0	10.2	Pass	200.0	65.1
64.020	H	18.6	13.2	31.8	40.0	8.2	Pass	200.0	146.3
66.585	H	21.4	13.0	34.4	40.0	5.6	Pass	200.0	124.7
160.005	H	13.7	16.1	29.8	40.0	10.2	Pass	200.0	155.7

RESULT: PASS

Radiated Emission Test at 3m Distance-Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
30.135	V	15.0	13.4	28.4	40.0	11.6	Pass	100.0	303.3
50.655	V	13.2	14.8	28.0	40.0	12.0	Pass	200.0	288.8
62.535	V	14.9	13.4	28.3	40.0	11.7	Pass	200.0	125.8
64.020	V	18.7	13.2	31.9	40.0	8.1	Pass	100.0	218.9
66.585	V	18.0	13.0	31.0	40.0	9.0	Pass	100.0	186.8
160.005	V	7.7	16.1	23.8	40.0	16.2	Pass	100.0	98.5

RESULT: PASS

10. EN 55015 RADIATED ELECTROMAGNETIC DISTURBANCE TEST

10.1. LIMITS OF RADIATED ELECTROMAGNETIC DISTURBANCE IN THE RANGE 9 KHZ TO 30 MHZ

Frequency Range	Limits for Loop Diameter dB(uA) *		
	2m	3m	4m
9 KHz-70 KHz	88 *	81 *	75 *
70 KHz-150 KHz	88 to 58 * *	81 to 51 * *	75 to 45 * *
150 kHz-3.0 MHz	58 to 22 * *	51 to 15 * *	45 to 9 * *
3.0 MHz-30 MHz	22 * * *	15 to 16 * * *	9 to 12 * * *

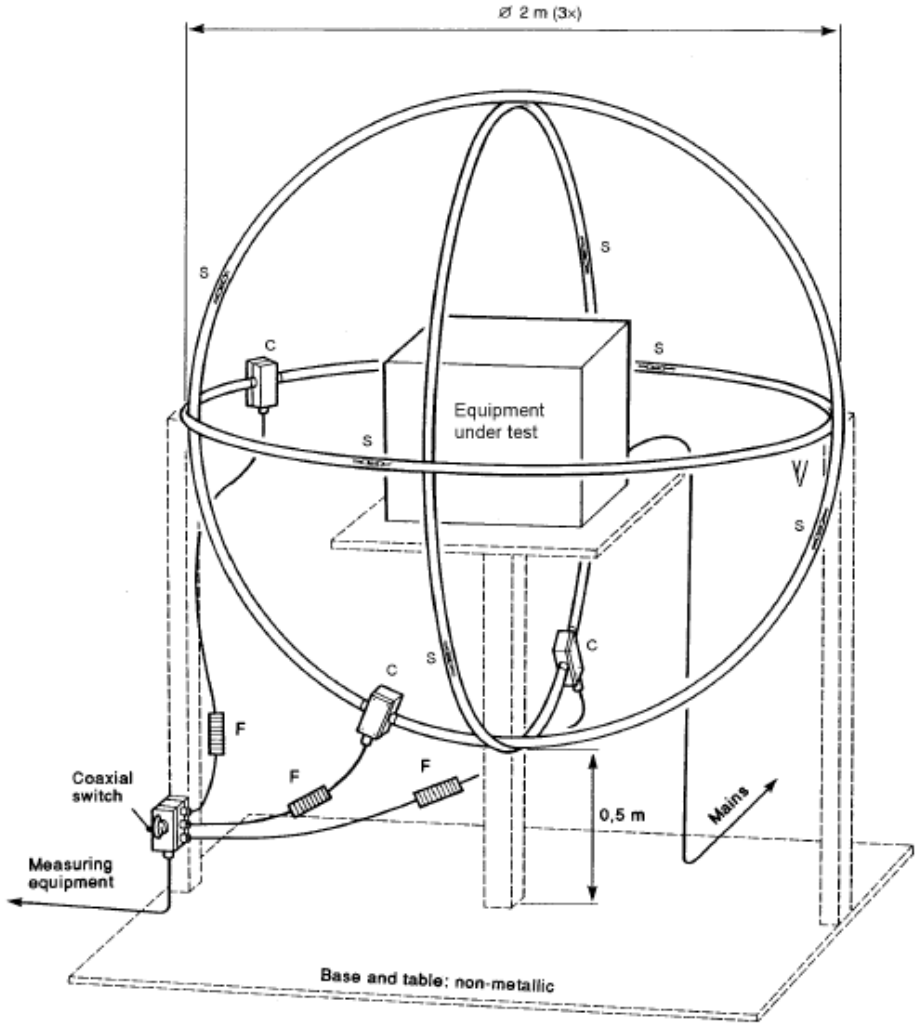
Note:

* At the transition frequency, the lower limit applies.

* * Decreasing linearly with the logarithm of the frequency. For electrode less lamps and luminaries, the limit in the frequency range of 2.2 MHz to 3.0 MHz is 58 dB(uA) for 2m, 51 dB(uA) for 3m and 45 dB(uA) for 4m loop diameter.

* * * Increasing linearly with the logarithm of the frequency.

10.2. BLOCK DIAGRAM OF TEST SETUP

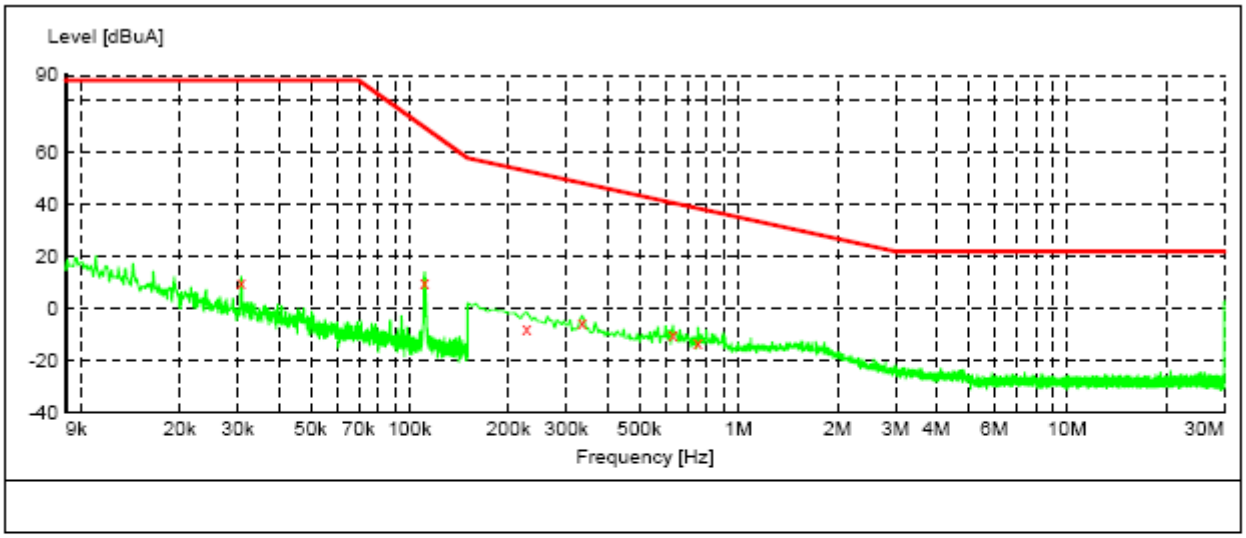


10.3. TEST PROCEDURE

The magnetic component shall be measured by means of a loop antenna as described in EN 55015. The lighting equipment shall be placed in the centre of the antenna, and the position is not critical.

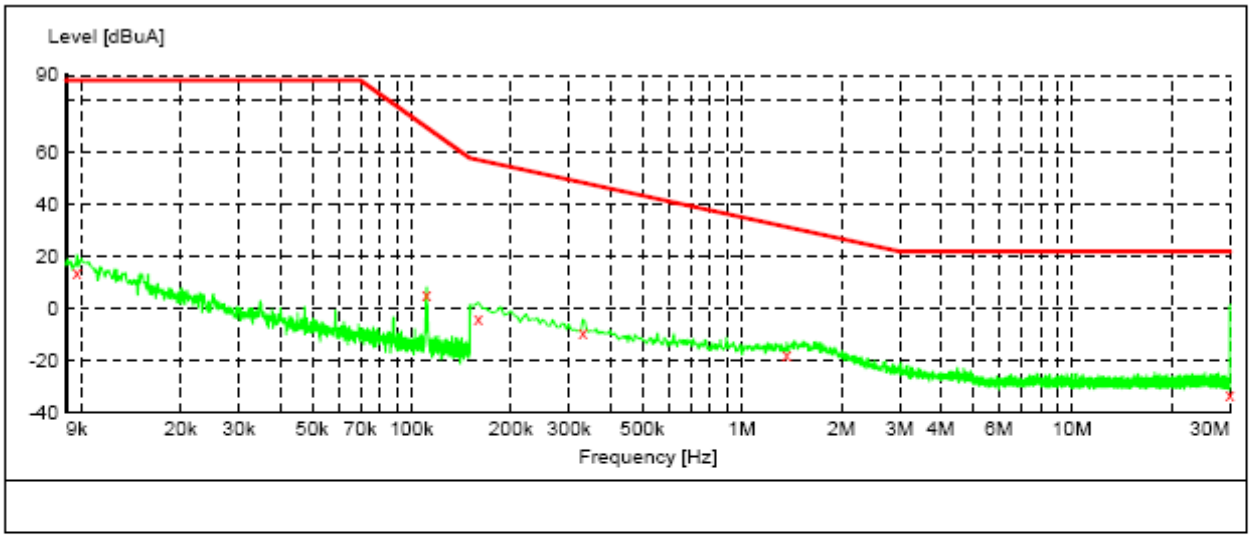
The test object was operated at its upper limit of its rated voltage and its rated frequency. The induced current in the loop antenna is measured by means of a current probe(1V/A) and the CISPR measuring receiver. By means of a coaxial switch the three field directions can be measured in sequence. Each value shall fulfill the requirements given.

10.4. TEST RESULTS OF RADIATED ELECTROMAGNETIC DISTURBANCE



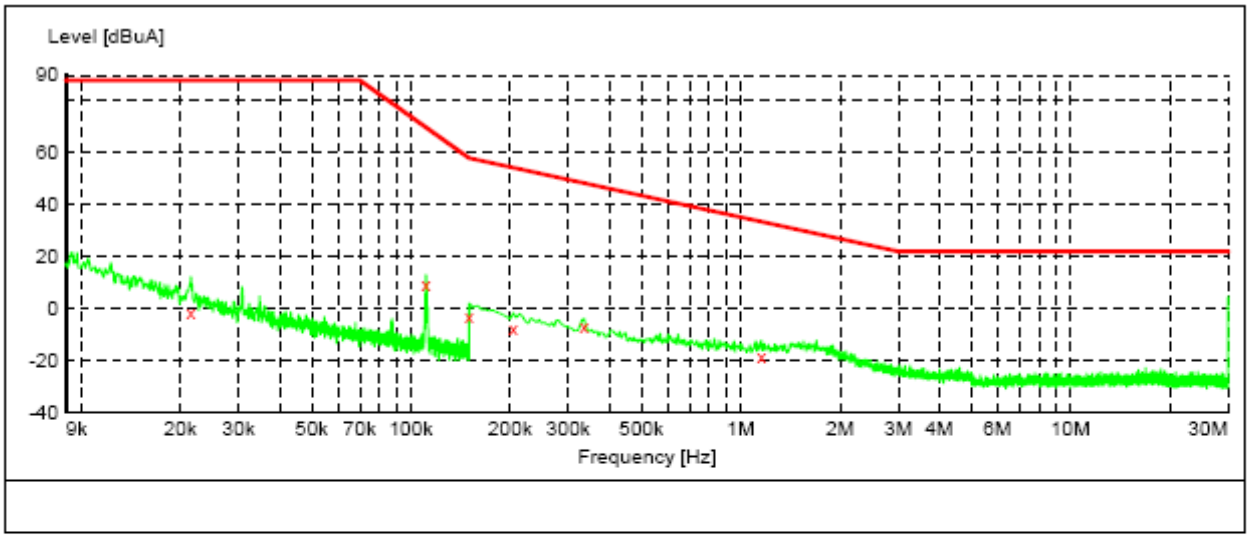
MEASUREMENT RESULT:

Frequency MHz	Level dBuA	Transd dB	Limit dBuA	Margin dB	Det.	Loop	Azimuth deg
0.030700	10.00	-6.2	88	78.0	QP	X	0.00
0.110900	9.70	-17.1	70	60.2	QP	X	0.00
0.226500	-7.50	-23.5	53	60.5	QP	X	0.00
0.334500	-5.20	-26.3	48	53.6	QP	X	0.00
0.631500	-10.10	-30.0	41	50.8	QP	X	0.00
0.753000	-13.00	-30.6	39	51.6	QP	X	0.00



MEASUREMENT RESULT:

Frequency MHz	Level dBuA	Transd dB	Limit dBuA	Margin dB	Det.	Loop	Azimuth deg
0.009700	13.60	3.0	88	74.4	QP	Y	0.00
0.111100	5.30	-17.1	70	64.5	QP	Y	0.00
0.159000	-3.80	-20.1	57	61.1	QP	Y	0.00
0.330000	-9.20	-26.2	49	57.7	QP	Y	0.00
1.365000	-17.60	-32.2	32	49.1	QP	Y	0.00
30.000000	-33.10	-31.8	22	55.1	QP	Y	0.00



MEASUREMENT RESULT:

Frequency MHz	Level dBuA	Transd dB	Limit dBuA	Margin dB	Det.	Loop	Azimuth deg
0.021500	-1.30	-3.1	88	89.3	QP	Z	0.00
0.111100	9.40	-17.1	70	60.4	QP	Z	0.00
0.150000	-3.20	-19.6	58	61.2	QP	Z	0.00
0.204000	-7.40	-22.8	54	61.7	QP	Z	0.00
0.334500	-6.50	-26.3	48	54.9	QP	Z	0.00
1.153500	-18.70	-32.1	34	52.2	QP	Z	0.00

RESULT: PASS

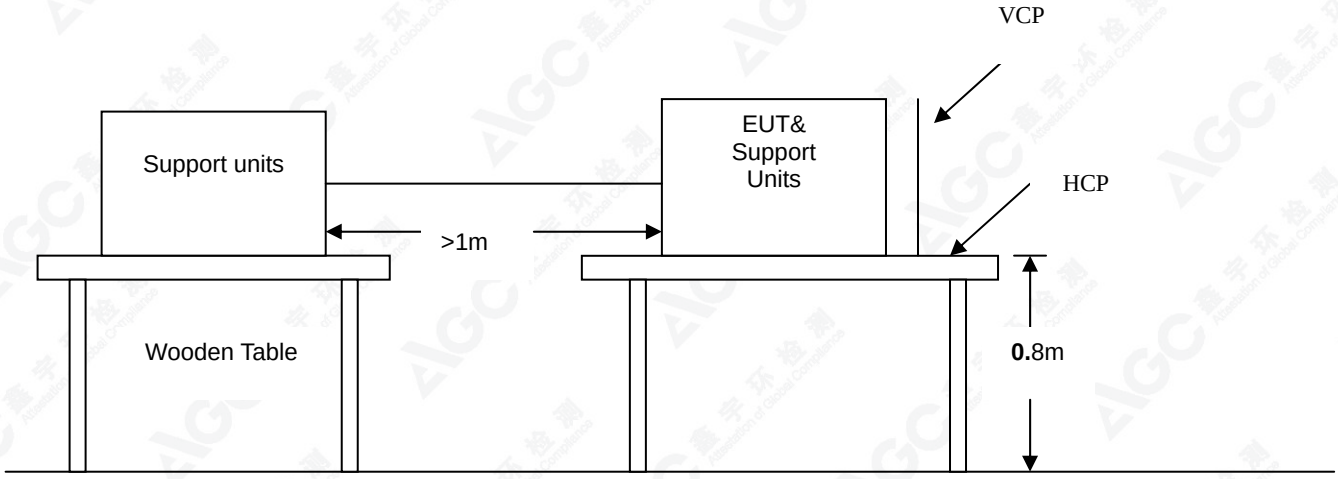
11. EN 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	B
Tester	Stone
Temperature	24 °C
Humidity	53%

11.1. BLOCK DIAGRAM OF TEST SETUP

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



Ground Reference Plane

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.

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

As per the requirement of EN 61547: Contact discharge is the preferred test method, twenty discharges (10 with positive and 10 with negative polarity) shall be applied on each accessible metallic part of the enclosure, terminals are excluded. Air discharges shall be used where contact discharges cannot be applied. Discharges shall be applied on the horizontal or vertical coupling planes as specified in EN 61000-4-2.

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
±4kV	Contact Discharge	No function loss	A
±4kV	Indirect Discharge HCP (Front)	No function loss	A
±4kV	Indirect Discharge HCP (Left)	No function loss	A
±4kV	Indirect Discharge HCP (Back)	No function loss	A
±4kV	Indirect Discharge HCP (Right)	No function loss	A
±4kV	Indirect Discharge VCP (Front)	No function loss	A
±4kV	Indirect Discharge VCP (Left)	No function loss	A
±4kV	Indirect Discharge VCP (Back)	No function loss	A
±4kV	Indirect Discharge VCP (Right)	No function loss	A
±8kV	Air Discharge	No function loss	A

11.3. 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.

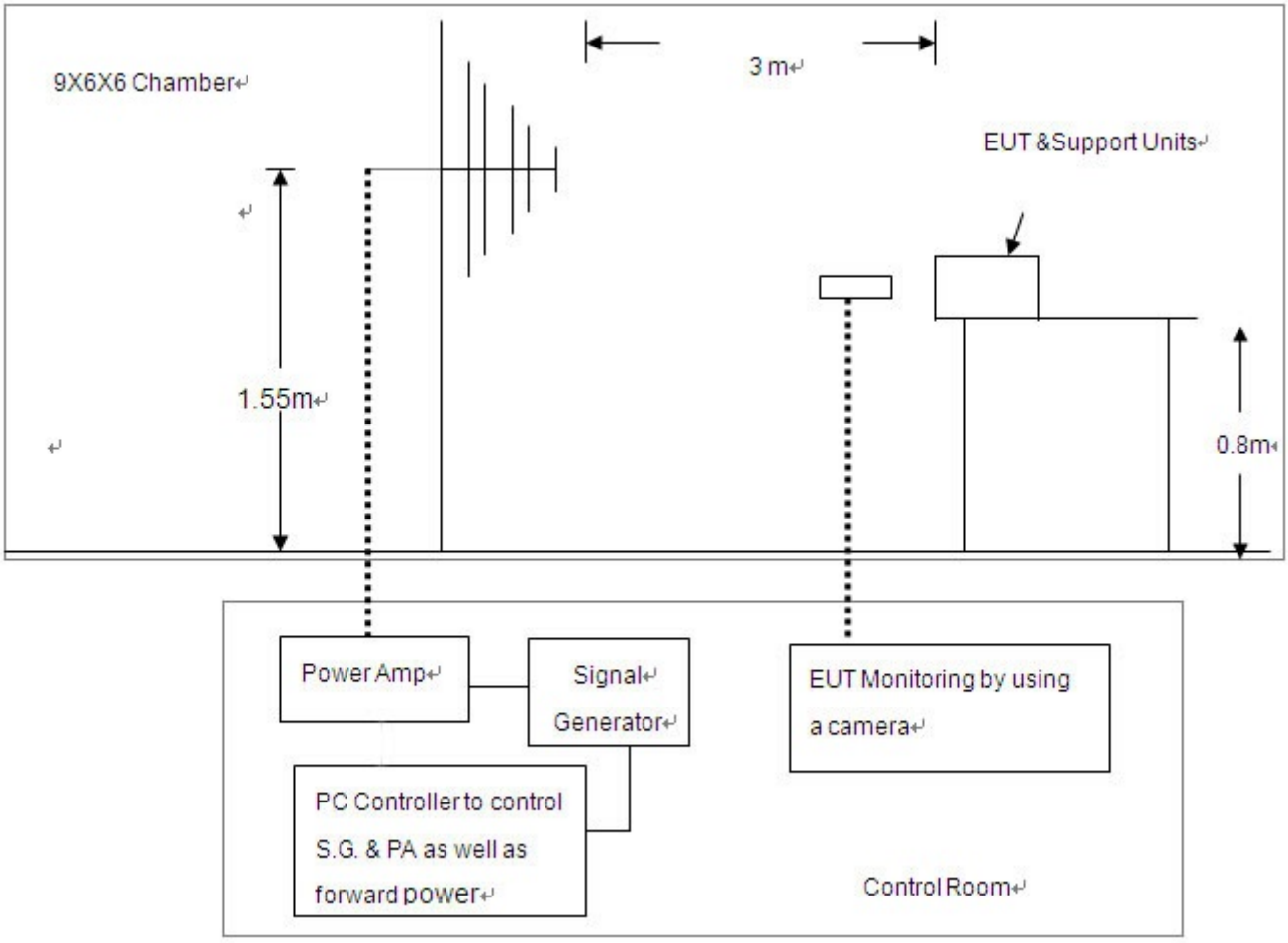
☒***PASS*** ☐***FAIL***

12. 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.
Standard require	A
Tester	Stone
Temperature	23°C
Humidity	54%

12.1. BLOCK DIAGRAM OF TEST SETUP



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
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

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

12.3. PERFORMANCE & RESULT

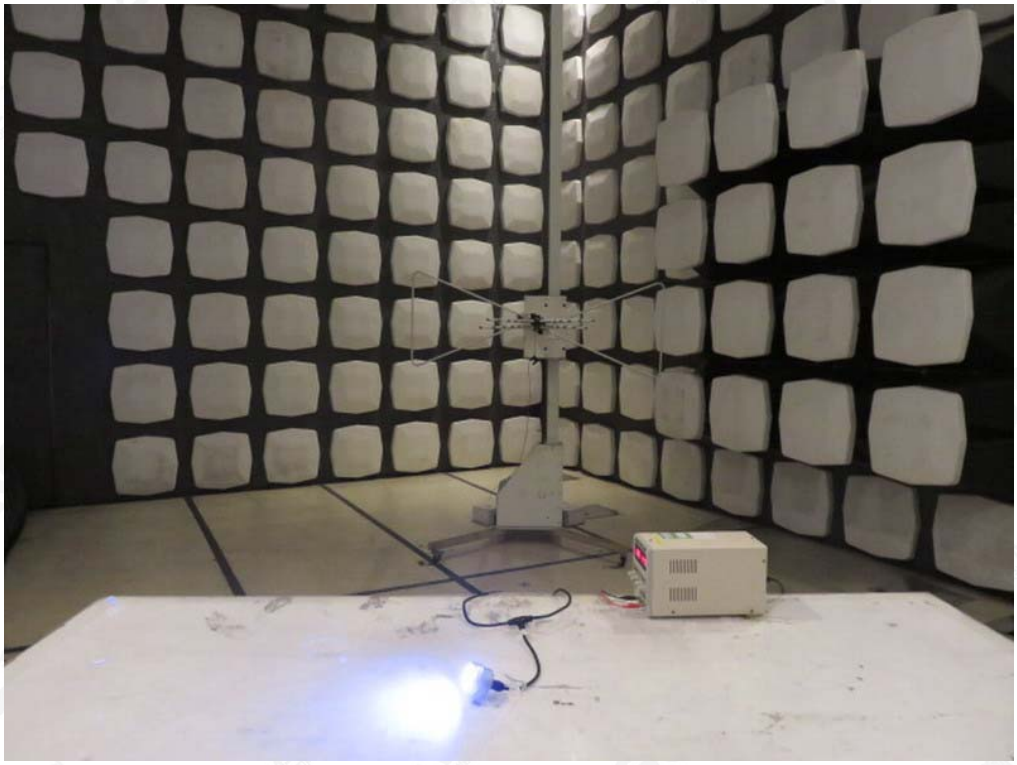
Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
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***

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

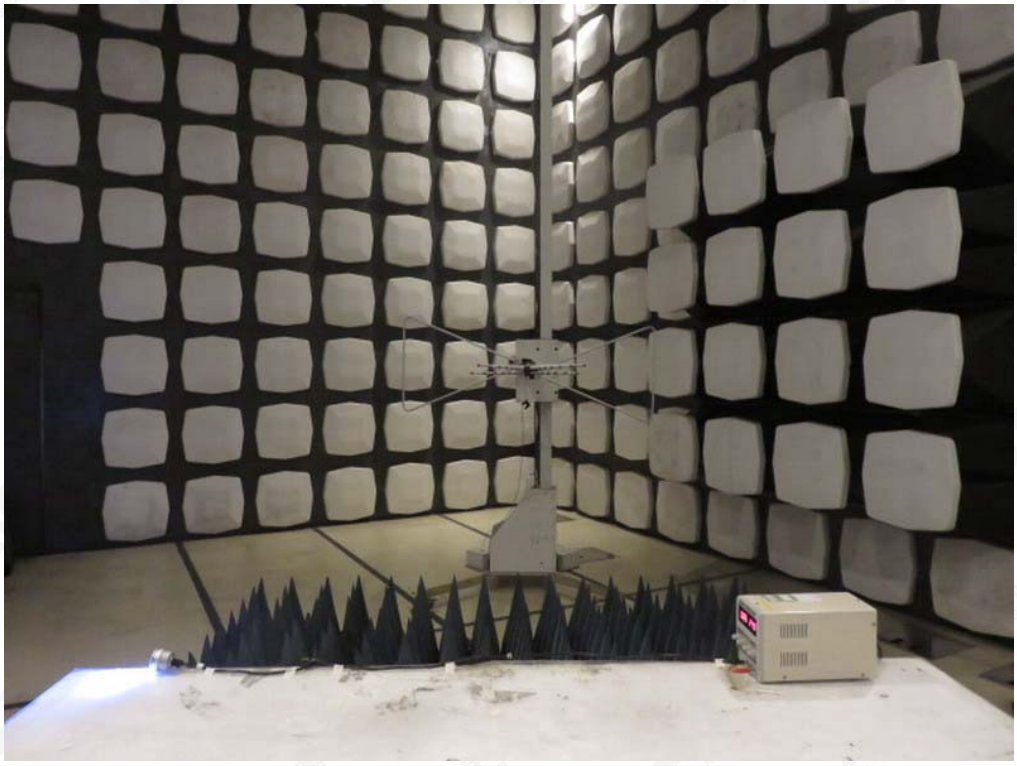
EN 55015 CONDUCTED EMISSION TEST SETUP

EN 55015 RADIATED EMISSION TEST SETUP



EN 61000-4-2 ESD IMMUNITY TEST SETUP

EN 61000-4-3 RS IMMUNITY TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

TOP VIEW OF EUT

BOTTOM VIEW OF EUT

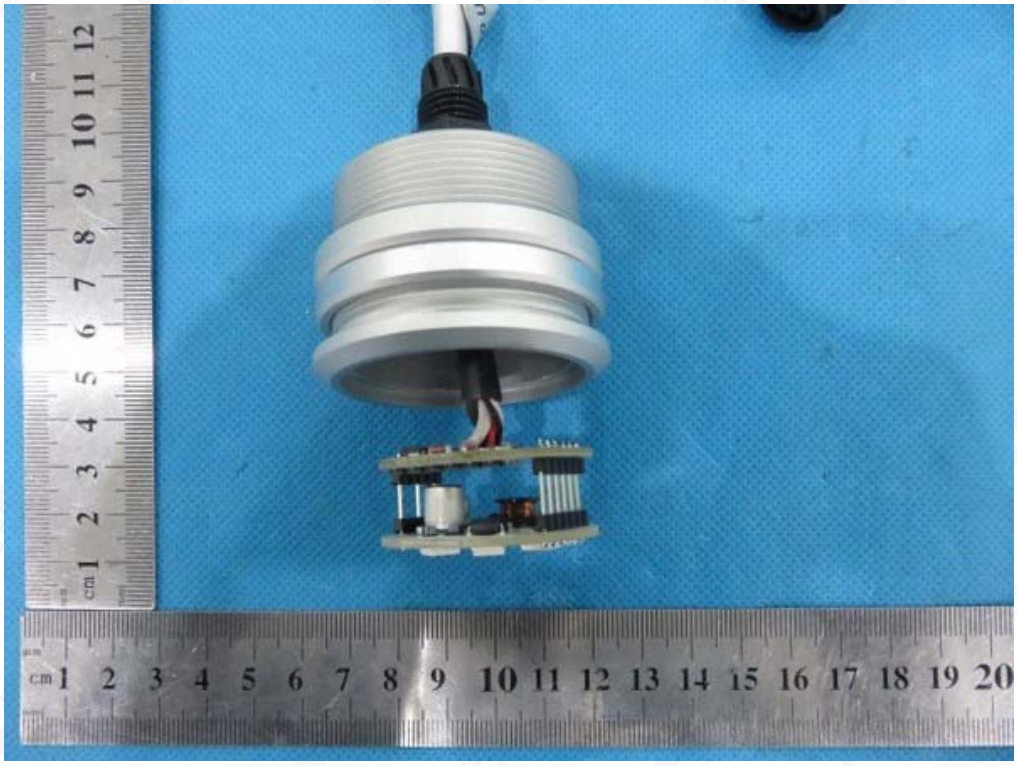
FRONT VIEW OF EUT

BACK VIEW OF EUT

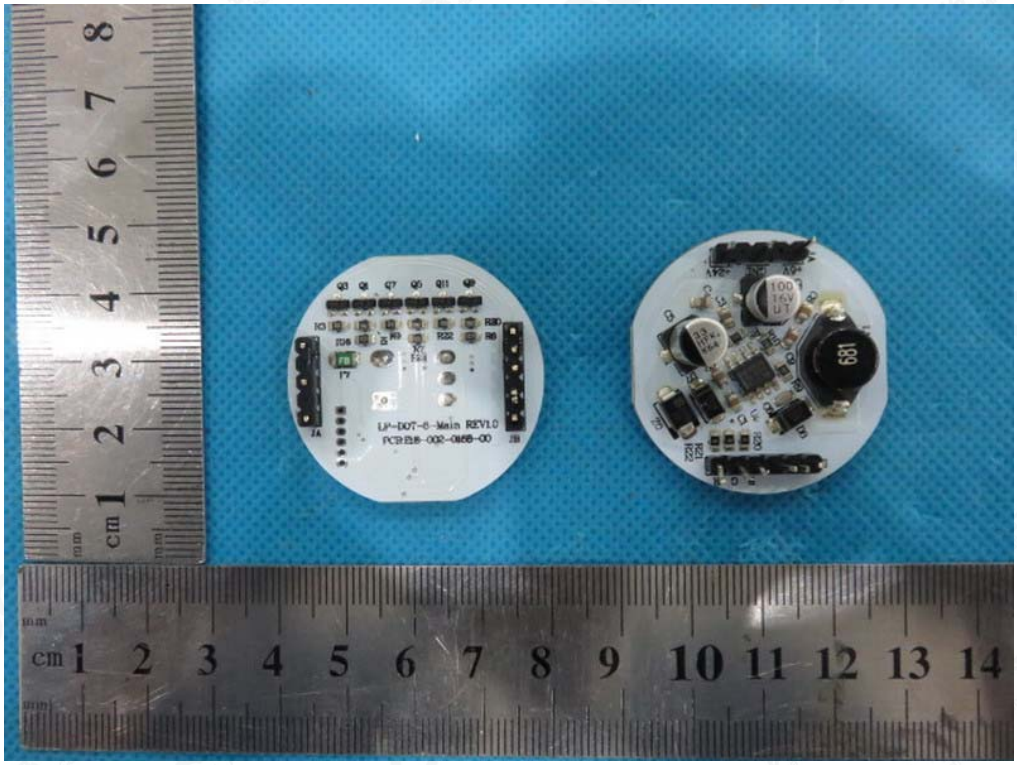
LEFT VIEW OF EUT

RIGHT VIEW OF EUT

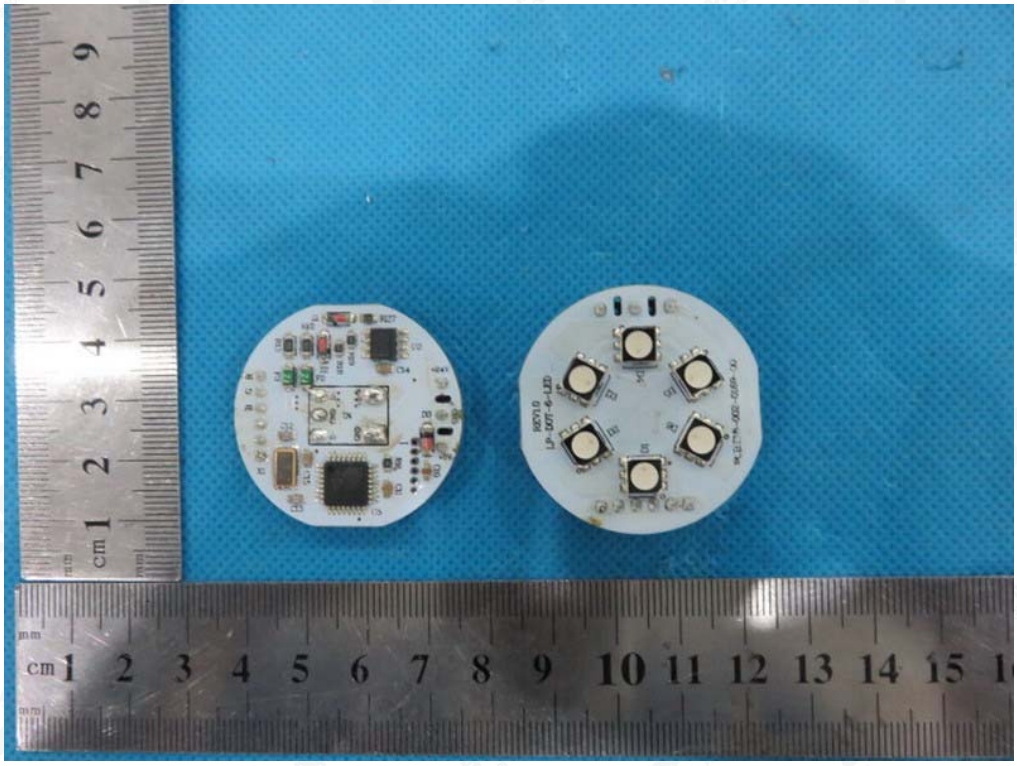
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----