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(Shanghai) Co., Ltd.**

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Report No.: SHEM150500150201  
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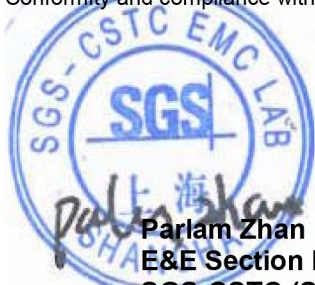
**1 Cover Page**

**TEST REPORT**

<b>Application No.:</b>	SHEM1505001502LM
<b>Applicant:</b>	AAA WORLD-WIDE ENTERPRISES LTD
<b>Equipment under Test (EUT)</b>	
<b>NOTE:</b> The following sample(s) was/were submitted and identified by the client as.	
<b>Product Name:</b>	Marine lights
<b>Model No.(EUT):</b>	00621-WH
<b>Add Model No.:</b>	Refer to Page 2-3
<b>Trade Mark:</b>	AAA
<b>Standards:</b>	EN 55015:2013, EN 61547:2009 EN 61000-3-2:2014, EN 61000-3-3:2013
<b>Date of Receipt:</b>	May 25, 2015
<b>Date of Test:</b>	May 27, 2015 to June 02, 2015
<b>Date of Issue:</b>	June 05, 2015
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT (Equipment under test) complied with the standards specified above.

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



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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**Add Model No.:**

Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
00943	00001	00002	00003	00004	00005	00006	00007
00008	00009	00010	00011	00012	00013	00020	00021
00026	00031	00034	00035	00037	00038	00041	00051
00062	00065	00066	00075	00081	00082	00083	00084
00085	00091	00092	00093	00094	00095	00100	00101
00102	00103	00106	00111	00112	00116	00117	00118
00119	00120	00121	00122	00123	00124	00125	00126
00127	00128	00129	00130	00131	00132	00134	00135
00136	00137	00138	00139	00140	00141	00142	00143
00144	00146	00148	00151	00152	00154	00155	00158
00160	00161	00162	00164	00165	00166	00167	00168
00169	00170	00172	00173	00174	00175	00177	00178
00179	00180	00181	00182	00183	00184	00185	00186
00187	00188	00189	00190	00191	00192	00193	00194
00195	00201	00202	00210	00211	00212	00213	00229
00230	00235	00236	00238	00239	00240	00244	00245
00260	00281	00282	00287	00290	00291	00292	00293
00294	00295	00296	00297	00298	00299	00300	00321
00324	00325	00326	00331	00358	00383	00393	00398
00399	00421	00424	00425	00431	00458	00459	00483
00493	00501	00502	00503	00519	00520	00521	00532
00540	00541	00544	00546	00550	00551	00552	00554



**SGS-CSTC Standards Technical Services  
(Shanghai) Co., Ltd.**

Report No.: SHEM150500150201



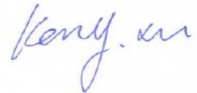
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00555	00556	00558	00565	00566	00599	00600	00601
00602	00603	00604	00605	00606	00607	00614	00615
00621	00622	00658	00668	00700	00701	00702	00758
00767	00801	00802	00803	00804	00805	00806	00809
00821	00822	00823	00824	00825	00851	00919	00920
00921	00922	00923	00926	00927	00936	00941	00942
00948	00951	00953	00955	00961	00962	00963	01126
01157	01158	01179	01180	01181	01182	01429	01502
01601	01602	01603	01604	01605	01606	01607	01608
01609	01611	01612	01613	01614	01624	01628	01640
01644	01650	01651	01653	01655	01662	01806	00149
00159	00422	01101	01102	01103	01104	01105	



## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		June 03, 2015		Original

Authorized for issue by:				
<b>Engineer</b>		Terry Hou _____		 _____
<b>Clerk</b>		Susie Liu _____		 _____
<b>Reviewer</b>		Keny Xu _____		 _____

### 3 Test Summary

<b>ELECTROMAGNETIC INTERFERENCE (EMI)</b>			
<b>Test</b>	<b>Test Requirement</b>	<b>Test Method</b>	<b>Result</b>
Conducted Emissions on mains terminals, 9 kHz to 30 MHz	EN 55015:2013	EN 55015:2013	PASS
Radiated Electromagnetic Disturbance 9 KHz to 30 MHz	EN 55015:2013	EN 55015:2013	PASS
Radiated Emission, 30 MHz to 300 MHz	EN 55015:2013	EN 55015:2013	PASS
Harmonic Emission on AC, 50 Hz	EN 61000-3-2:2014	EN 61000-3-2:2014	N/A*
Flicker Emission on AC	EN 61000-3-3:2013	EN 61000-3-3:2013	PASS
<b>Electromagnetic Susceptibility(EMS)</b>			
<b>Test</b>	<b>Test Requirement</b>	<b>Test Method</b>	<b>Result</b>
Electrostatic Discharge (ESD)	EN 61547:2009	EN 61000-4-2:2009	PASS
Radio-frequency electromagnetic fields, 80 MHz to 1 GHz	EN 61547:2009	EN 61000-4-3:2006+ A1:2008+A2:2010	PASS
Electrical Fast Transients (EFT) on AC	EN 61547:2009	EN 61000-4-4:2012	PASS
Surge Immunity on AC( $\leq 25W$ )	EN 61547:2009	EN 61000-4-5:2014	PASS
Injected Currents on AC 150 kHz to 80 MHz	EN 61547:2009	EN 61000-4-6:2014	PASS
Power frequency magnetic fields	EN 61547:2009	EN 61000-4-8:2010	N/A**
Voltage Dip and Interruptions	EN 61547:2009	EN 61000-4-11:2004	PASS
<b>Remark:</b>			
N/A: Not applicable			
Note1:* Please refer to Section 7.4 of this report for details.			
Note2:** The Power-frequency magnetic field test will not apply to the equipment containing no components susceptible to magnetic fields, such as Hall elements or magnetic field sensors, according to EN 61547.			
<b>EUT IN THIS WHOLE REPORT EUT MEANS EQUIPMENT UNDER TEST.</b>			
Note3: There are 266 models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model 00621-WH was tested since their differences were the model number, trade name and appearance.			

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## 5 General Information

### 5.1 Client Information

Applicant:	AAA WORLD-WIDE ENTERPRISES LTD
Address of Applicant:	5 <sup>TH</sup> FL., Modern Plaza 183, Chung-Hsiao E. RD., Sec.4, Taipei, Taiwan
Manufacturer:	AAA WORLD-WIDE ENTERPRISES LTD
Address of Manufacturer:	5 <sup>TH</sup> FL., Modern Plaza 183, Chung-Hsiao E. RD., Sec.4, Taipei, Taiwan
Factory:	AAA WORLD-WIDE ENTERPRISES LTD
Address of Factory:	5 <sup>TH</sup> FL., Modern Plaza 183, Chung-Hsiao E. RD., Sec.4, Taipei, Taiwan

### 5.2 Details of E.U.T.

For Adaptor Power Supply:	Model No.: WJG-Y35120300D Input: AC 230V 50Hz Output: DC 12V 300mA
Test voltage:	AC 230V, 50Hz
Cable Type:	0.9m Length (2 wires) For DC Output cable

### 5.3 E.U.T Operation Mode

Functions/Modes:	Lighting mode
Lighting mode	Keep EUT lighting.

### 5.4 E.U.T Operation Environment

Temperature Range:	20-25°C
Humidity Range:	30-60% RH
Atmospheric Pressure Range:	100-102kPa

### 5.5 Description of Support Units

The EUT has been tested independently.

### 5.6 Deviation from Standards

All Immunity tests to EN 61547 were performed in accordance with EN 61000-4-x and not IEC 61000-4-x. (x=2,3,4,5,6,11).

### 5.7 Abnormalities from Standard Conditions

None.

### 5.8 Modification/Retest Record

None.

### 5.9 Monitoring of EUT for All Immunity Test

Audio:	None.
Visual:	Working status of the EUT.



## 5.10 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab  
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

## 5.11 Test Facility

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2017-07-14.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

## 5.12 Measurement Uncertainty

According to CISPR 16-4-2.

Test Item	Frequency Range	Measurement Uncertainty	U <sub>cispr</sub>
Conducted Emission at mains port using AMN	9kHz-150kHz	3.2dB	3.8dB
Conducted Emission at mains port using AMN	150kHz-30MHz	2.6dB	3.4dB
Conducted Emission at mains port using VP	9kHz-30MHz	3.9dB	2.9dB
Conducted Emission at telecommunication port using AAN	150kHz-30MHz	4.5dB	5.0dB
Radiated Emission	30MHz-1000MHz	4.3dB	6.3dB
Radiated Emission	1GHz-18GHz	4.5dB	5.2dB(1GHz-6GHz)
			5.5dB(6GHz-18GHz)
Disturbance Power	30MHz-300MHz	2.6dB	4.5dB
Remark: AMN – Artificial Mains Network VP – Voltage Probe ANN – Asymmetric Artificial Network			

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 6 Equipment list

### Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2015-01-22	2016-01-21
2	Line impedance stabilization network	SCHWARZBE CK	NSLK812 7	8127-490	2015-01-22	2016-01-21
3	Line impedance stabilization network	EMCO	3816/2	00034161	2015-01-22	2016-01-21

### Radiated Electromagnetic Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	3-dimensional large loop	SCHWARZBE CK	HXYZ917 0	HXYZ917 0-136	2015-01-22	2016-01-21
2	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2015-01-22	2016-01-21

**Radiated Emission**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1.	EMI test receive	Rohde & Schwarz	ESR7	101391	2015-01-22	2016-01-21
2	CONTROLLER	INNCO	CO200	474	/	/
3	Broadband UHF-VHF ANTENNA	SCHWARZBE CK	VULB916 8	9168-313	2015-02-07	2016-02-06
4	Double ridged broadband horn ANTENNA	SCHWARZBE CK	BBHA912 0D	9120D-67 9	2015-02-07	2016-02-06
5	Amplifier	SCHWARZBE CK	SCU-F011 8-G40-BZ 4-CSS(F)	10001	2015-01-22	2016-01-21
6	Low noise amplifier	TESEQ	LNA6900	71033	2014-12-27	2015-12-26

**Flicker**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Single phase harmonics & flicker analyzer	EM test	DPA500	V0507100 125	2015-01-22	2016-01-21
2	AC SOURCE 6KVA	EM test	ACS500	V0507100 126	2015-01-22	2016-01-21

**Electrostatic Discharge Test**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Electrostatic Discharge Simulator	TESEQ	NSG 437	468	2014-08-28	2015-08-27

**Radiated Immunity**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Single Generator	Rohde & Schwarz	SMJ100A	101394	2015-01-22	2016-01-21
2	Calibrated Stacked Lagarithmic-Periodic Test-Antenna	SCHWARIBFC K	STLP 9128D	9128 D 055	/	/
3	Stacked DoubleLog-Per. Antenna	SCHWARIBFC K	STLP 9149	9149-187	/	/
4	Power Amplifiers	MILMEGA	80RF1000-250	1053058	2014-08-10	2015-08-09
5	Power Amplifiers	MILMEGA	AS0840-55-55	1053059	2014-08-10	2015-08-09
6	Power Meter	Rohde & Schwarz	NRP	101641	2015-01-22	2016-01-21
7	Electromagnetic Field Probe	ETS-Lindgren	HI-6113	000114591	2014-09-10	2015-09-09
8	Power sensor	Rohde & Schwarz	NRP-Z91	100647	2015-01-22	2016-01-21
9	Power sensor	Rohde & Schwarz	NRP-Z22	101096	2014-08-10	2015-08-09

**EFT Test**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMS test machine	EMC Partner	TRA3000 F-S-D-V	1229	2015-01-04	2016-01-03

**Surge Test**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMS test machine	EMC Partner	TRA3000 F-S-D-V	1229	2015-01-04	2016-01-03

**Conducted Immunity Test**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1.	AM/FM signal generator	Rohde & Schwarz	SMY01	82567510 18	2014-10-23	2015-10-22
2	PAMP Conducted RF test system	HAEFFLY	PAMP250	151708	2015-01-22	2016-01-21
3	CDN impedance and K-factor	LUTHI	L-801 M1	2116	/	/
4	CDN impedance and K-factor	LUTHI	L-801 M2/M3	2117	2015-01-22	2016-01-21

**Voltage dips and Interruption Test**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMS test machine	EMC Partner	TRA3000 F-S-D-V	1229	2015-01-04	2016-01-03