EMC
Measurement and Test Report

For

Shenzhen Olight E-Commerce Technology Co.,Ltd

5th Floor,Building A2,Fuhai Information Harbor,Fuhai Subdistrict,Bao`an District,Shenzhen,China

Test Standards:	EN 55015:2013/A1:2015 EN 61547:2009
Product Description:	LED FlashLight
Tested Model:	Warrior X
Report No.:	STR18118035E
Tested Date:	2018-11-05 to 2018-11-12
Issued Date:	2018-11-12
Tested By:	June Zheng / Engineer
Reviewed By:	Silin Chen / EMC Manager
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

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1.GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Shenzhen Olight E-Commerce Technology Co.,Ltd
Address of applicant:	5th Floor,Building A2,Fuhai Information Harbor,Fuhai Subdistrict,Bao`an District,Shenzhen,China
Manufacturer:	Shenzhen Olight E-Commerce Technology Co.,Ltd
Address of manufacturer:	5th Floor,Building A2,Fuhai Information Harbor,Fuhai Subdistrict,Bao`an District,Shenzhen,China

General Description of EUT	
Product Name:	LED FlashLight
Trade Name:	Olight
Model No.:	Warrior X
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Rated Voltage:	4.2V
Rated Current:	8.5A
Rated Power:	35.7W
Power Adaptor Model:	/

1.2 Test Standards

The tests were performed according to following standards:
EN 55015:2013/A1:2015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61547:2009 Electromagnetic for general lighting purposes - EMC immunity requirements

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with the standards EN55015, EN61547 for general lighting purposes equipment, and all related testing and measurement techniques intentional standards.

1.4 Test Facility

FCC – Registration No.: 125990
Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A
The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark	Power Supply Mode
TM1	Working	Charging	DC 5V(with a adapter input AC 230V/50Hz)
TM2	Working	Lighting	DC 4.2V

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Power Line	0.4	Shielded	Without Core
Control Line	0.6	Shielded	Without Core

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Adapter	/	EE5020-P17	

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 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.

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal.. Date	Due. Date
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2018-05-22	2019-05-21
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-333	2017-06-08	2020-06-07
Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2018-05-22	2019-05-21
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
AC LISN	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
DC LISN	Schwarz beck	NNBM8126D	279	2018-05-22	2019-05-21
DC LISN	Schwarz beck	NNBM8126D	280	2018-05-22	2019-05-21
8-WIRE LISN	Schwarz beck	8158	CAT3-8158-0059	2018-05-22	2019-05-21
8-WIRE LISN	Schwarz beck	8158	CAT5-8158-0117	2018-05-22	2019-05-21
Loop Antenna	EVERFINE	LLA-2	711001	2017-06-08	2020-06-07
VDH Test Head	AFJ	VDH 30	SC022Z	2018-05-22	2019-05-21
PMF Generator	LIONCEL	PMF-801C-C	0171101	2018-05-22	2019-05-21
PMF Antenna	LIONCEL	PMF-801C-A	0180302	2018-05-22	2019-05-21
Instantaneous PMF Generator Module	LIONCEL	PMF-801C-T	0171001	2018-05-22	2019-05-21
Digital Power Analyzer	California Instrument	CTS	72831	2018-05-22	2019-05-21
Power Source	California Instrument	5001IX-CTS-400	25965	2018-05-22	2019-05-21
ESD Generator	LIONCEL	ESD-203B	0170901	2018-05-28	2019-05-27
Amplifier	Agilent	8447D	2944A10179	2018-05-22	2019-05-21
Transient 2000	EMC PARTNER	TRA2000	863	2018-05-22	2019-05-21
Couple Clamp	EMC PARTNER	CN-EFT1000	513	2018-05-26	2019-05-25
CS Immunity Tester	SCHAFFNER	NSG2070	1123	2018-05-22	2019-05-21
Attenuator	EMTEST	MA-5100/6BF2	1009	2018-05-22	2019-05-21
CDN	Luthi	L-801M2/M3	2665	2018-05-22	2019-05-21
Signal Generator	R&S	SMB100A	105942	2018-09-10	2019-09-09
Power Meter	R&S	NRP2	102031	2018-09-10	2019-09-09
RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	2018-09-10	2019-09-09
RF Power Amplifier	NJNT	NTWPAS-2560025	2560025	2018-09-10	2019-09-09
Antenna	SCHWARZBECK	STLP9128D	043	2017-09-11	2020-09-10
Antenna	SCHWARZBECK	BBHA 9120 D	667	2017-09-11	2020-09-10

CS Generator	MARCONI	2024	112260/042	2018-08-13	2019-08-12
Attenuator	FRANKONIA	75-A-FFN-06	1001698	2018-08-13	2019-08-12
CDN	FRANKONIA	CDN M2+M3	A3027019	2018-08-13	2019-08-12
EM Injection Clamp	FCC	F-203I-23mm	91536	2018-08-13	2019-08-12
RF POWER AMPLIFIER	FRANKONIA	FLL-75	102A1109	2018-08-13	2019-08-12

2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
EN55015	Disturbance Voltages	Compliant
	Radiated Electromagnetic Disturbances (Frequency range 9kHz to 30MHz)	Compliant
	Radiated Electromagnetic Disturbances (Frequency range 30MHz to 300MHz)	Compliant
EN61000-3-2	Harmonic Current Emission	N/A
EN61000-3-3	Voltage Fluctuation And Flicker	N/A
EN61547	Electrostatic Discharge Immunity in accordance with EN 61000-4-2	Compliant
	Radio-Frequency Electromagnetic Field Immunity in accordance with EN 61000-4-3	Compliant
	Electrical Fast Transient/Burst Immunity in accordance EN 61000-4-4	Compliant
	Surges Immunity in accordance with EN 61000-4-5	Compliant
	Injected Currents Immunity in accordance with EN 61000-4-6	Compliant
	Power-frequency Magnetic Field Immunity in accordance with EN 61000-4-8	Compliant
	Voltage Dips/Interruptions Immunity in accordance with EN 61000-4-11	N/A

N/A: not applicable

3. Disturbance Voltages

3.1 Measurement Uncertainty

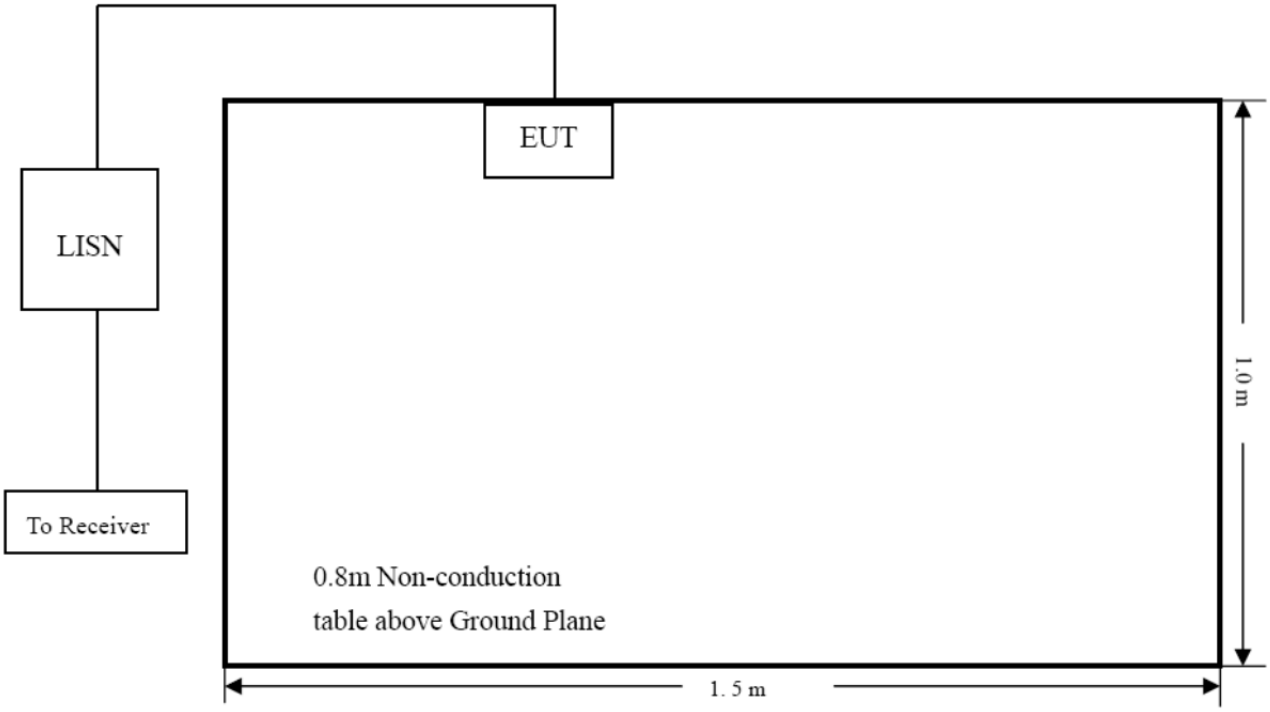
Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB

3.2 Test Procedure

Test is conducting under the description of EN55015, According to Clause 5.3.2.2, 6 & 8.3.1.

3.3 Basic Test Setup Block Diagram



3.4 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

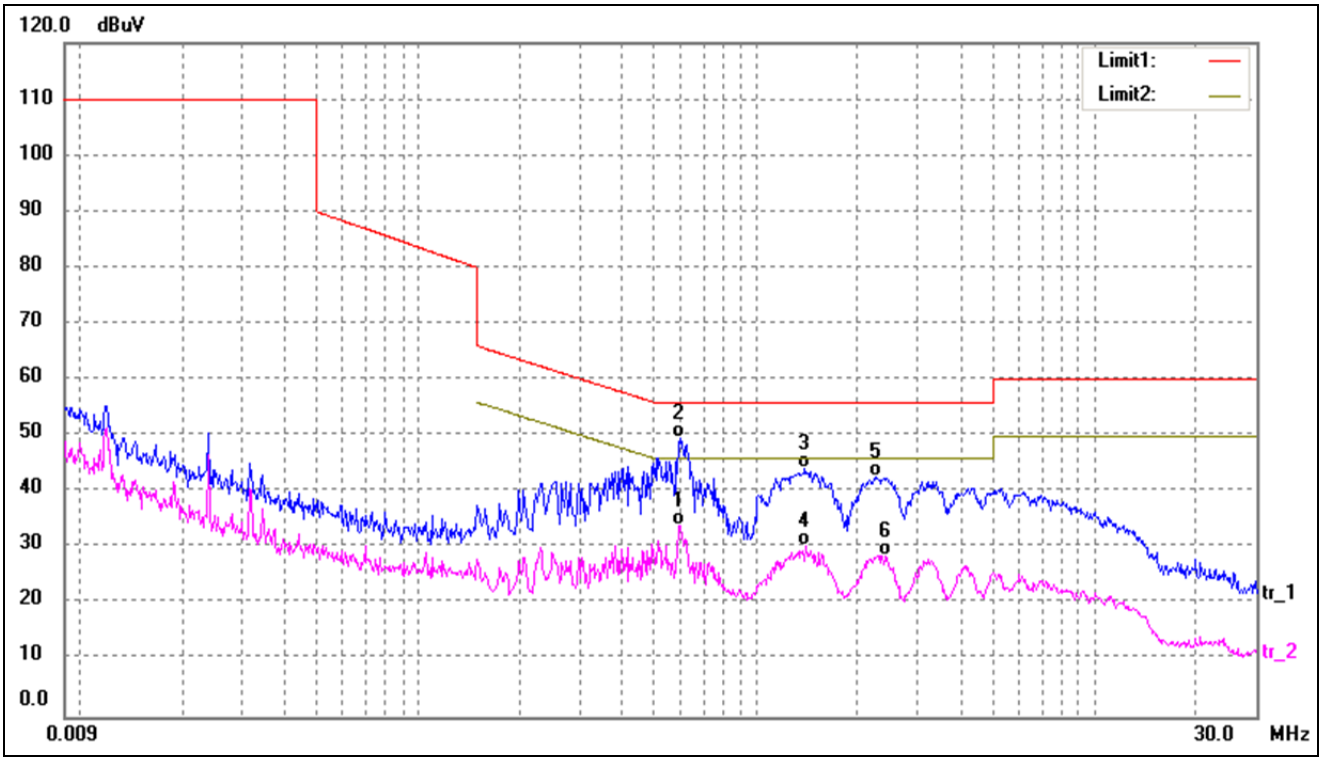
3.5 Summary of Test Results/Plots

According to the data in section 3.6, the EUT complied with the EN55015 Conducted margin for a lighting device, with the *worst* margin reading of:

-6.21 dB at **0.5980 MHz** in the **Neutral** mode, **QP** detector, **0.009-30MHz**

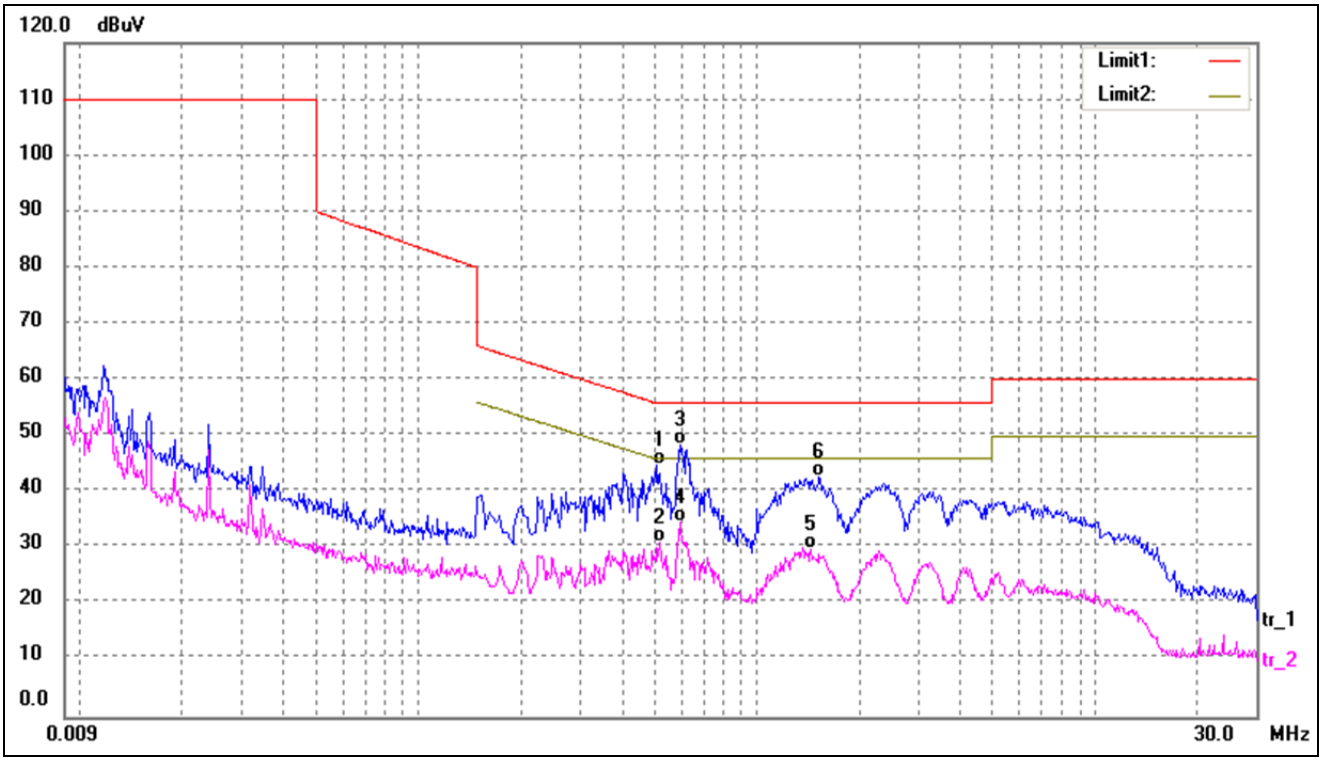
3.6 Conducted Emissions Test Data

Test mode:	TM1	Polarity:	Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.5900	23.79	10.33	34.12	46.00	-11.88	AVG
2*	0.5980	39.45	10.34	49.79	56.00	-6.21	QP
3	1.3940	33.56	10.55	44.11	56.00	-11.89	QP
4	1.4020	19.89	10.55	30.44	46.00	-15.56	AVG
5	2.2740	32.02	10.63	42.65	56.00	-13.35	QP
6	2.4100	18.15	10.63	28.78	46.00	-17.22	AVG

Test mode:	TM1	Polarity:	Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.5100	34.47	10.29	44.76	56.00	-11.24	QP
2	0.5180	20.66	10.30	30.96	46.00	-15.04	AVG
3*	0.5940	38.03	10.34	48.37	56.00	-7.63	QP
4	0.5940	24.41	10.34	34.75	46.00	-11.25	AVG
5	1.4540	19.45	10.55	30.00	46.00	-16.00	AVG
6	1.5300	32.23	10.55	42.78	56.00	-13.22	QP

4. Radiated Electromagnetic Disturbances (9kHz to 30MHz)

4.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is ± 3.6 dB.

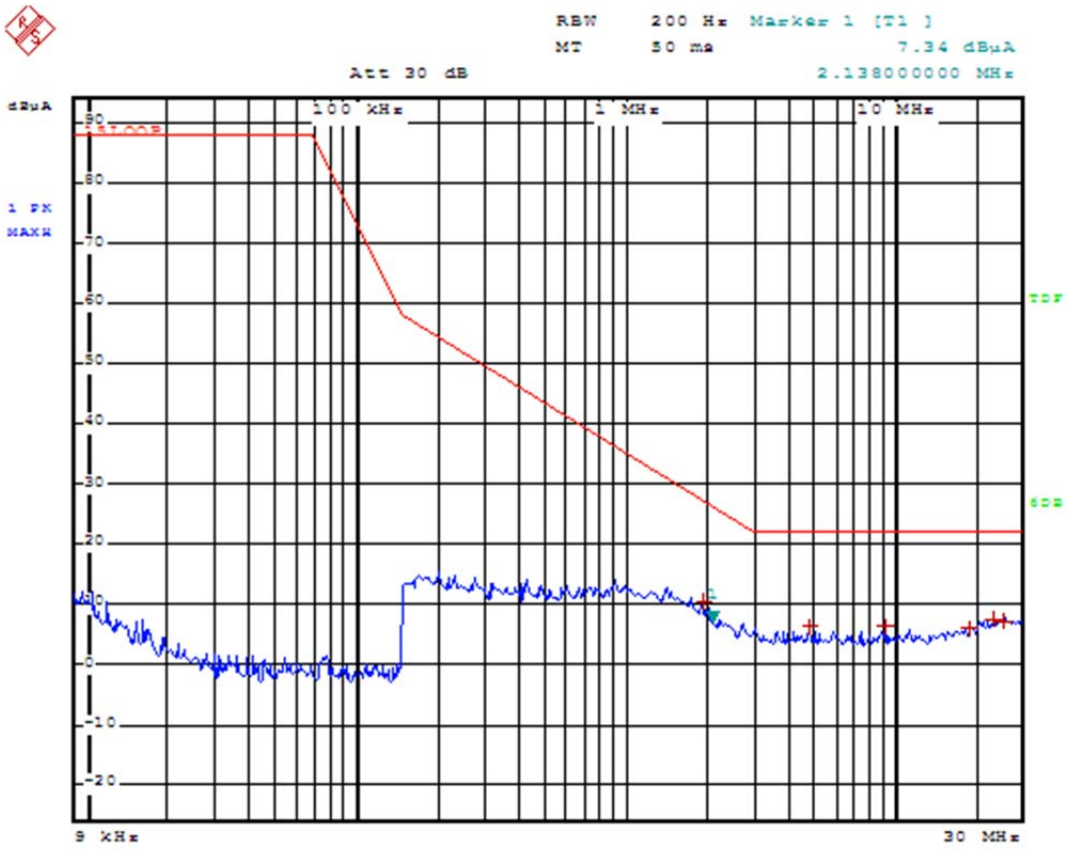
4.2 Test Procedure

Test is conducted under the description of EN 55015, According to Clause 4.4

4.3 Test Result

Testing according to limit table 3b and the emissions below 10dB are not report.
Test Result: Pass
Please refer to the plots:

Test mode:	TM1	Polarity:	X

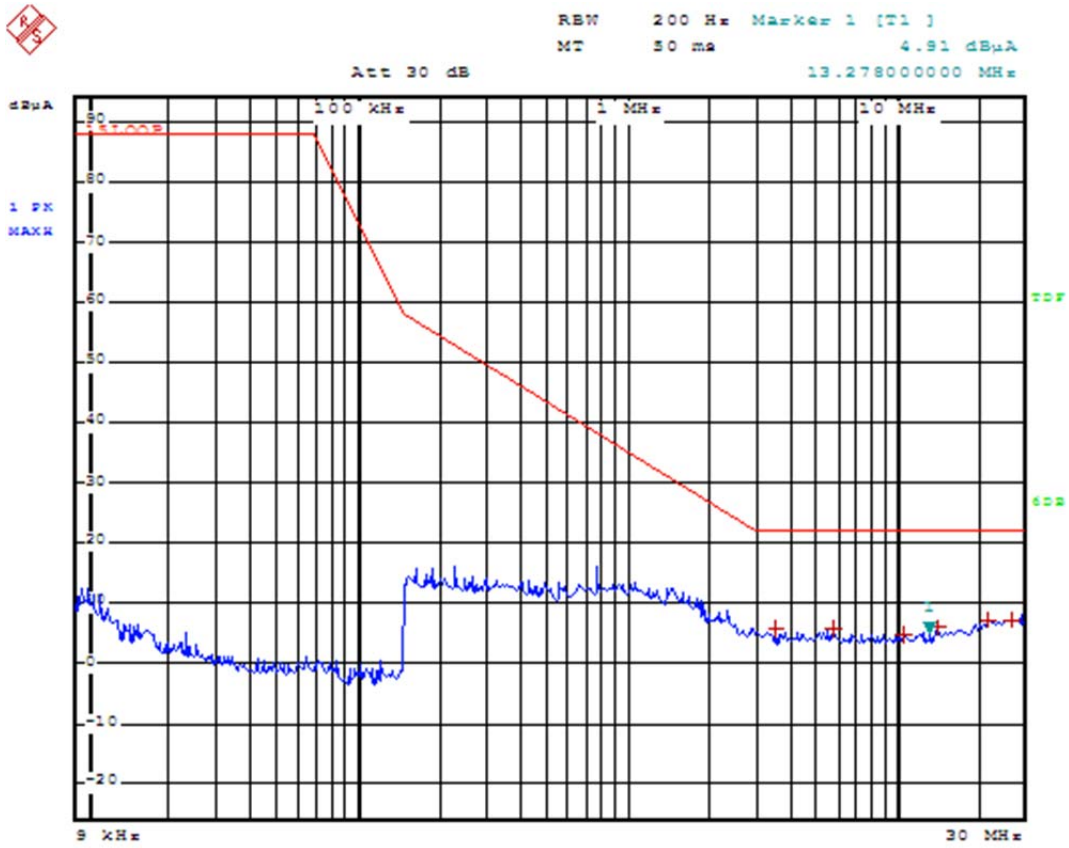


EDIT PEAK LIST (Prescan Results)

Trace1:	15LOOP
Trace2:	---
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1 Max Peak	1.962 MHz	10.51	-16.58
1 Max Peak	4.842 MHz	6.30	-15.69
1 Max Peak	9.306 MHz	6.26	-15.73
1 Max Peak	19.17 MHz	6.08	-15.91
1 Max Peak	23.578 MHz	7.48	-14.51
1 Max Peak	25.678 MHz	7.17	-14.82

Test mode:	TM1	Polarity:	Y

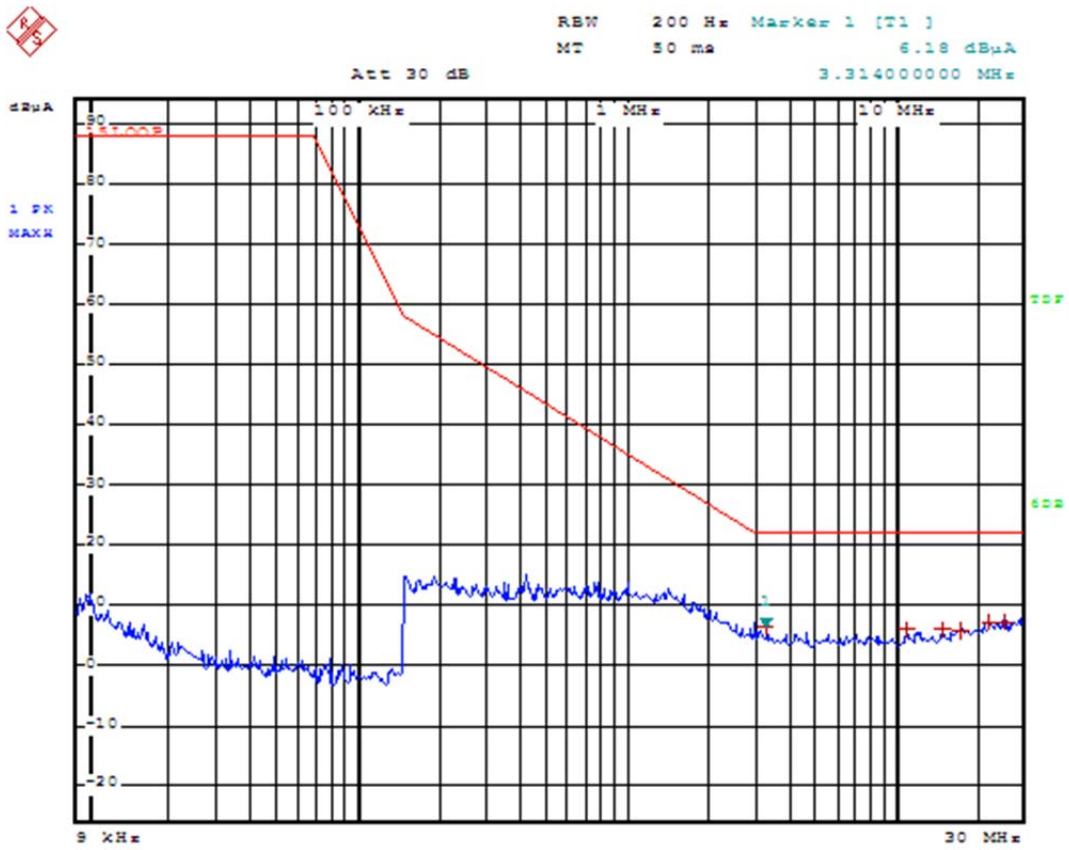


EDIT PEAK LIST (Prescan Results)

Trace1:	15LOOP
Trace2:	---
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1 Max Peak	3.314 MHz	6.18	-15.81
1 Max Peak	11.006 MHz	5.97	-16.02
1 Max Peak	15.01 MHz	5.88	-16.12
1 Max Peak	17.542 MHz	5.69	-16.30
1 Max Peak	22.342 MHz	7.34	-14.65
1 Max Peak	25.306 MHz	7.29	-14.71

Test mode:	TM1	Polarity:	Z



EDIT PEAK LIST (Prescan Results)

Trace1:	15LOOP
Trace2:	---
Trace3:	---

TRACE	FREQUENCY	LEVEL dBµA	DELTA LIMIT dB
1 Max Peak	3.59 MHz	5.65	-16.34
1 Max Peak	5.846 MHz	5.75	-16.24
1 Max Peak	10.55 MHz	4.64	-17.35
1 Max Peak	14.21 MHz	5.86	-16.13
1 Max Peak	22.082 MHz	7.33	-14.66
1 Max Peak	26.958 MHz	7.34	-14.65

5. Radiated Electromagnetic Disturbances (30MHz to 300MHz)

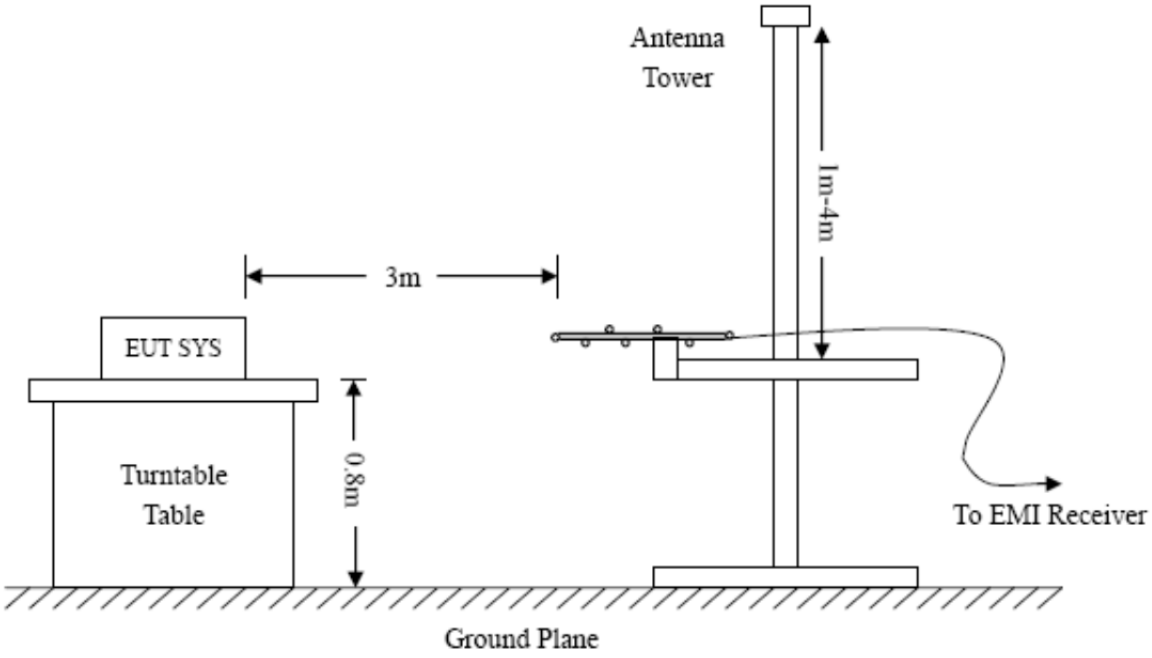
5.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Radiated Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

5.2 Test Procedure

Test is conducting under the description of EN55015 According to Clause 4.4.2.



5.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for a lighting device. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – EN55015 Limit

5.4 Environmental Conditions

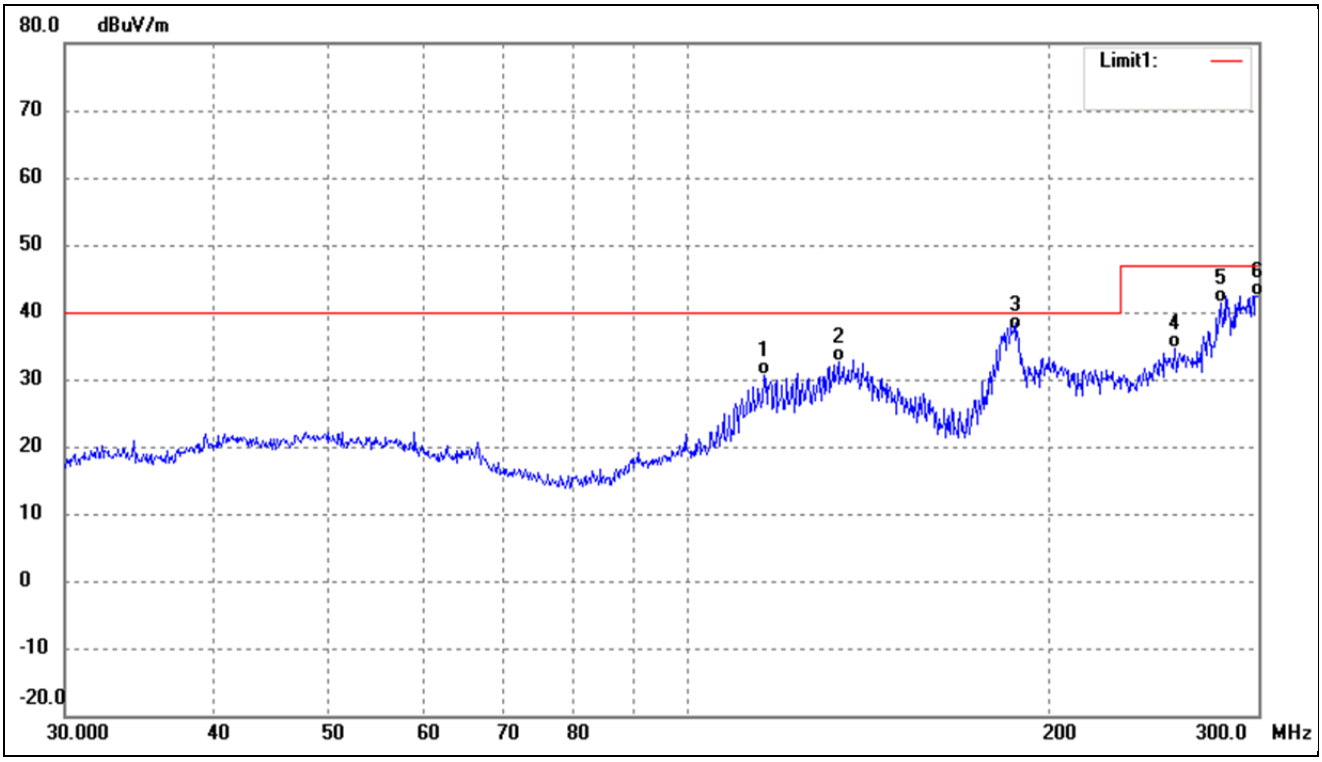
Temperature:	23° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

5.5 Summary of Test Results/Plots

According to the data in section 5.5, the EUT complied with the EN55015 standards, and had the worst margin is:

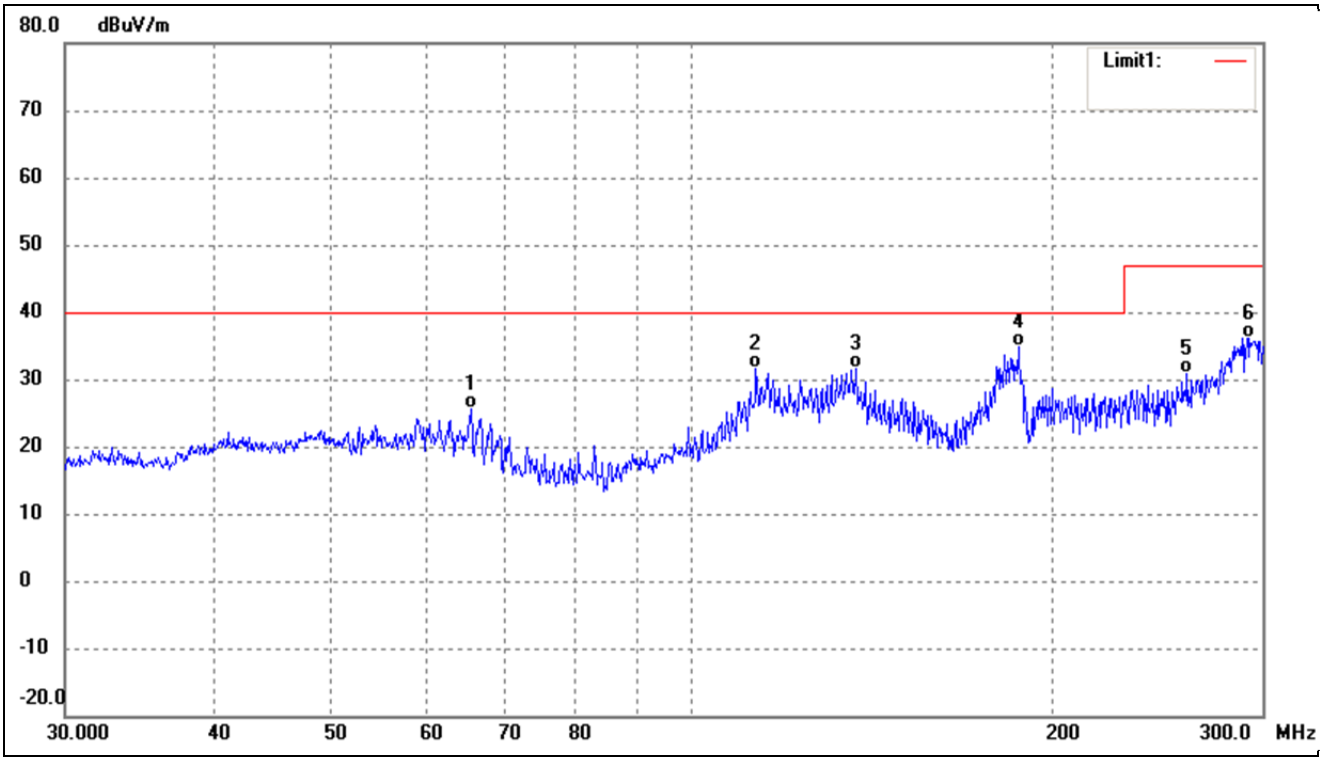
-2.65 dB at **187.5518 MHz** in the **Horizontal** polarization,**TM1 Mode, 30 MHz to 300 MHz, 3Meters**

Test mode:	TM1	Polarity:	Horizontal



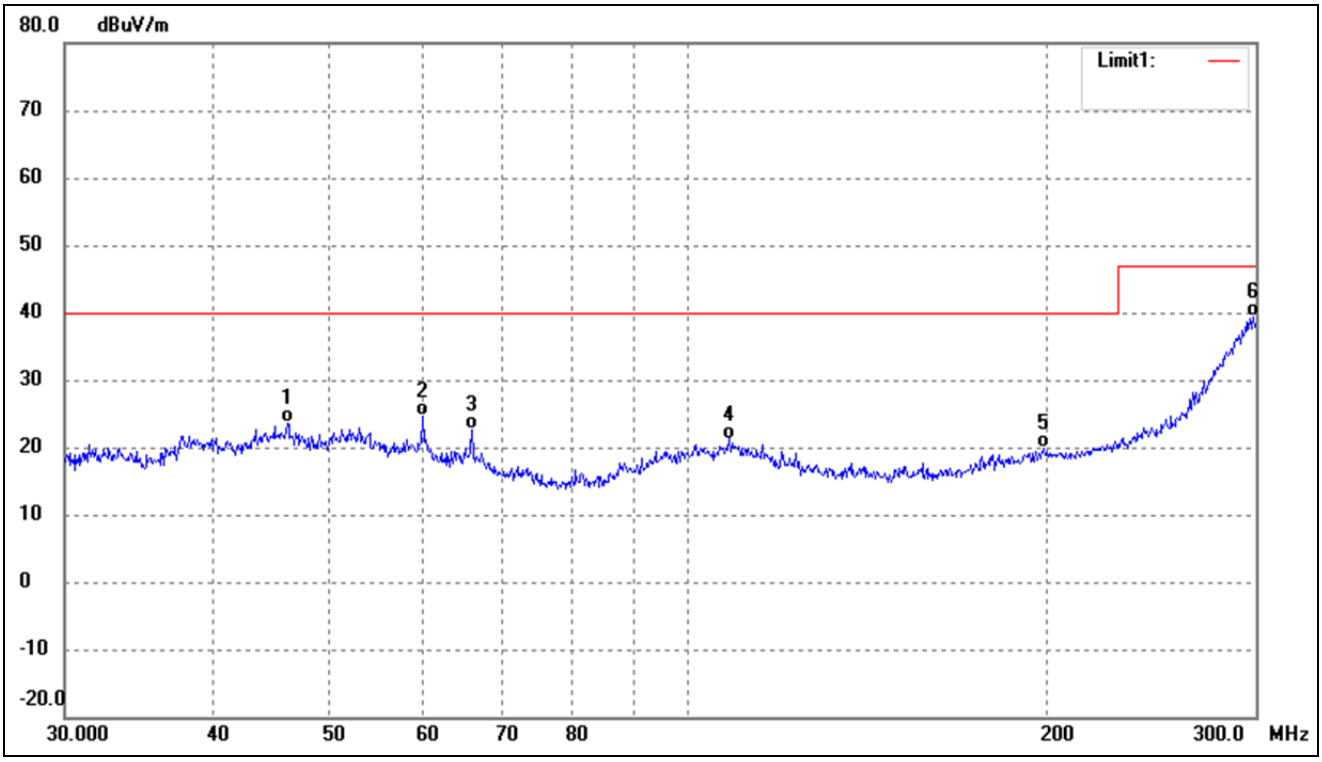
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	115.6435	45.45	-14.87	30.58	40.00	-9.42	79	100	QP
2	133.3894	49.81	-17.08	32.73	40.00	-7.27	88	100	QP
3	187.5518	50.84	-13.49	37.35	40.00	-2.65	98	100	QP
4	255.3412	44.32	-9.58	34.74	47.00	-12.26	228	100	QP
5	278.6899	49.66	-8.37	41.29	47.00	-5.71	117	100	QP
6	299.3100	49.93	-7.45	42.48	47.00	-4.52	45	100	QP

Test mode:	TM1	Polarity:	Vertical



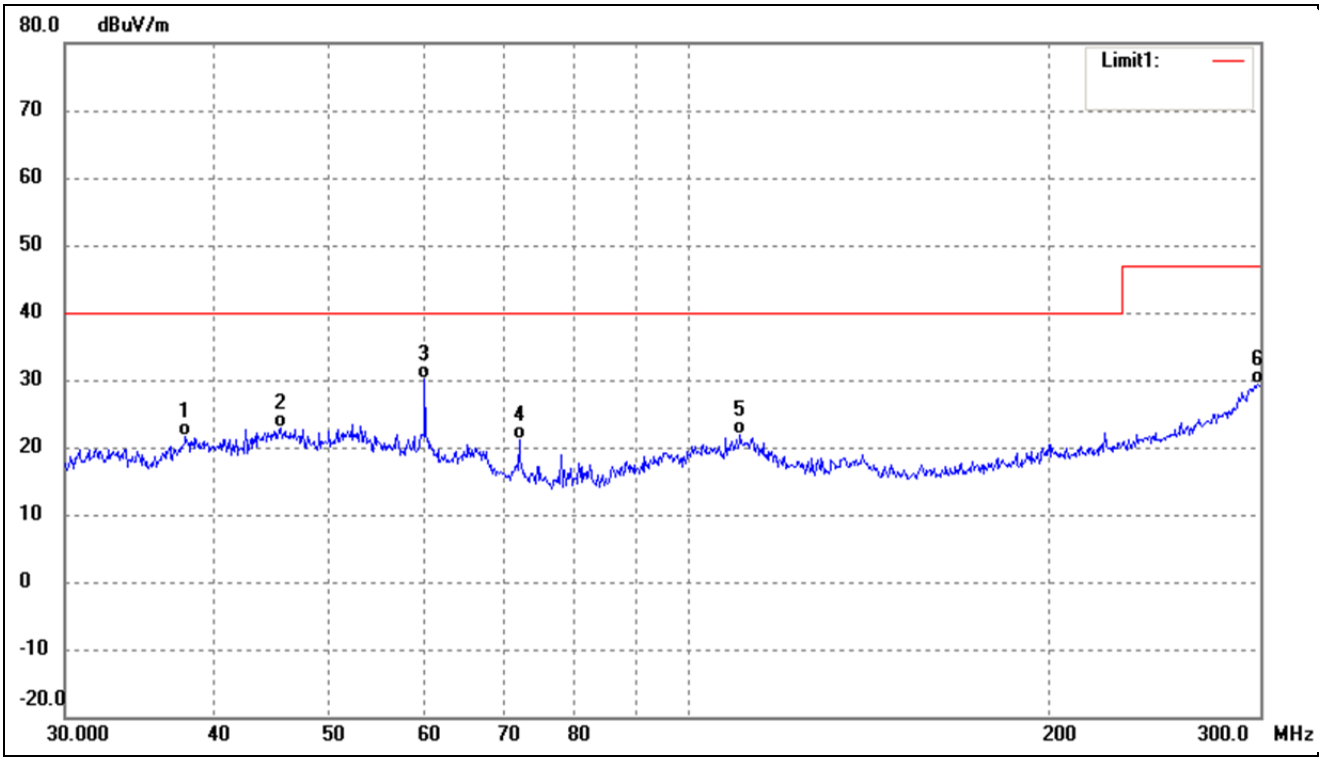
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	65.4819	41.15	-15.42	25.73	40.00	-14.27	257	100	QP
2	113.2717	46.16	-14.48	31.68	40.00	-8.32	90	100	QP
3	137.4425	48.76	-17.05	31.71	40.00	-8.29	119	100	QP
4	187.5518	48.43	-13.49	34.94	40.00	-5.06	91	100	QP
5	259.4904	40.17	-9.32	30.85	47.00	-16.15	56	100	QP
6	292.4969	43.99	-7.74	36.25	47.00	-10.75	328	100	QP

Test mode:	TM2	Polarity:	Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	46.1446	36.48	-12.90	23.58	40.00	-16.42	254	100	QP
2	59.9959	39.26	-14.60	24.66	40.00	-15.34	265	100	QP
3	65.9358	38.22	-15.59	22.63	40.00	-17.37	68	100	QP
4	108.4230	35.21	-13.96	21.25	40.00	-18.75	131	100	QP
5	199.1229	32.09	-12.21	19.88	40.00	-20.12	133	100	QP
6	298.6216	46.79	-7.45	39.34	47.00	-7.66	317	100	QP

Test mode:	TM2	Polarity:	Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	37.8548	36.14	-14.53	21.61	40.00	-18.39	109	100	QP
2	45.5115	35.78	-12.94	22.84	40.00	-17.16	186	100	QP
3	59.9959	44.62	-14.60	30.02	40.00	-9.98	61	100	QP
4	71.9649	38.76	-17.74	21.02	40.00	-18.98	92	100	QP
5	110.1847	35.80	-13.94	21.86	40.00	-18.14	164	100	QP
6	300.0000	36.89	-7.44	29.45	47.00	-17.55	120	100	QP

6. Electrostatic Discharge Immunity (ESD)

6.1 Test Procedure

Test is conducting under the description of EN 61000-4-2.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

6.2 Electrostatic Discharge Immunity Test Data

Table 1: Electrostatic Discharge Immunity (Air Discharge)

EN 61000-4-2	Test Levels (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Light	A	A	A	A	A	A	A	A	/	/

Table 2: Electrostatic Discharge Immunity (Direct Contact)

EN 61000-4-2	Test Levels (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Metal roof	A	A	A	A	/	/	/	/	/	/

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP & VCP)

EN 61000-4-2	Test Levels (kV)									
Test Points	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
HCP (6 Sides)	A	A	A	A	/	/	/	/	/	/
VCP (4 Sides)	A	A	A	A	/	/	/	/	/	/

Test Result: Pass

7. Radio-Frequency Electromagnetic Fields (R/S)

7.1 Test Procedure

Test is conducting under the description of EN 61000-4-3.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1010 mbar

7.2 Continuous Radiated Disturbances Test Data

Frequency step: 1% of fundamental
Dwell time: 1 second
Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A

Test Result: Pass

8. Electrical Fast Transients (EFT)

8.1 Test Procedure

Test is conducting under the description of EN 61000-4-4.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

8.2 Electrical Fast Transients Test Data

EN 61000-4-4 Test Points		Test Levels (kV)							
		+0.5	-0.5	+1.0	-1.0	+2.0	-2.0	+4.0	-4.0
Power Supply Power Port of EUT	L1	/	/	**A**	**A**	/	/	/	/
	L2	/	/	**A**	**A**	/	/	/	/
	PE	/	/	/	/	/	/	/	/
	L1+L2	/	/	**A**	**A**	/	/	/	/
	L1 + PE	/	/	/	/	/	/	/	/
	L2 + PE	/	/	/	/	/	/	/	/
	L1+L2+PE	/	/	/	/	/	/	/	/
Signal ports	/	/	/	/	/	/	/	/	/

Test Result: Pass

9. Surges

9.1 Test Procedure

Test is conducting under the description of EN 61000-4-5.

Test Performance

Performance Criterion: B

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

9.2 Surge Test Data

Level	Voltage	Poll	Path	Pass	Fail
1	0.5kV	±	L-N, L-PE, N-PE	/	/
2	1kV	±	L-N	**A**	/
3	2kV	±	L-PE, N-PE	/	/
4	4kV	±	L-N, L-PE, N-PE	/	/

Test Result: Pass

10. Injected Currents (C/S)

10.1 Test Procedure

Test is conducting under the description of EN 61000-4-6.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

10.2 Continuous Conducted Disturbances Test Data

Sweep frequency range: 150kHz~80MHz
Frequency step: 1% of fundamental
Dwell time: 1 second

Level	Voltage Level (e.m.f.) U_0	Modulation:	Pass	Fail
1	1	AM 80%, 1kHz sinewave	/	/
2	3	AM 80%, 1kHz sinewave	A	/
3	10	AM 80%, 1kHz sinewave	/	/
X	Special	/	/	/

Test Result: Pass

11. Power Frequency Magnetic Fields

11.1 Test Procedure

Test is conducting under the description of EN 61000-4-8.

Test Performance

Performance Criterion: A

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	1011 mbar

11.2 Power-Frequency Magnetic Field Test Data

Level	Magnetic Field Strength (r.m.s) A/m	Frequency Hz	Induction Coil Postion	Pass	Fail
1	1	50	X, Y, Z	/	/
2	3	50	X, Y, Z	A	/
3	10	50	X, Y, Z	/	/
X	Special	/		/	/

Test Result: Pass

EXHIBIT 1 - PRODUCT LABELING

Proposed CE Label Format

LED FlashLight
Model: Warrior X
Brand: Oligh t
Importer Name: XXX
Importer Address: XXX
Shenzhen Olight E-Commerce Technology Co.,Ltd
5th Floor,Building A2,Fuhai Information Harbor,
Fuhai Subdistrict,Bao`an District,Shenzhen,China

Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT. The 'CE' marking must be affixed to the EUT or to its data plate. Where this is not possible or not warranted on account of the nature of the apparatus, it must be affixed to the packaging, if any, and to the accompanying documents. The 'CE' marking is allowed less than 5 mm but must clear. If the 'CE' marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The Importer name, address and Manufacturer name and address should indicate on marking label or packaging or in a document accompanying

Proposed Label Location on EUT

CE Label Location



EXHIBIT 2 - EUT PHOTOGRAPHS

EUT View 1



EUT View 2



EUT View 3



EUT View 4



EUT Housing and Board View 1

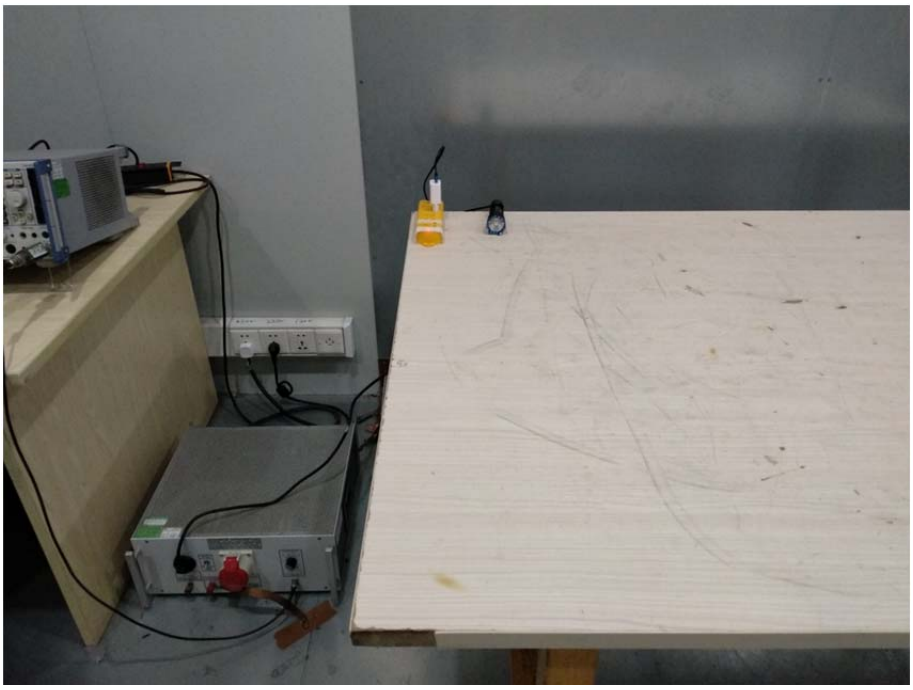


Solder Board-Component View 1



EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

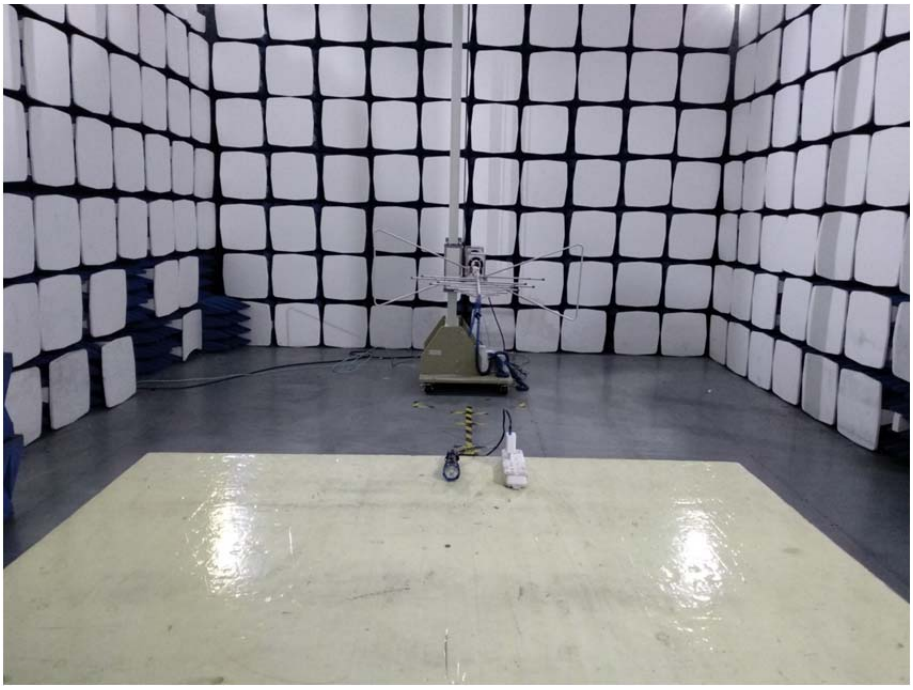
Conduction Emission Test View



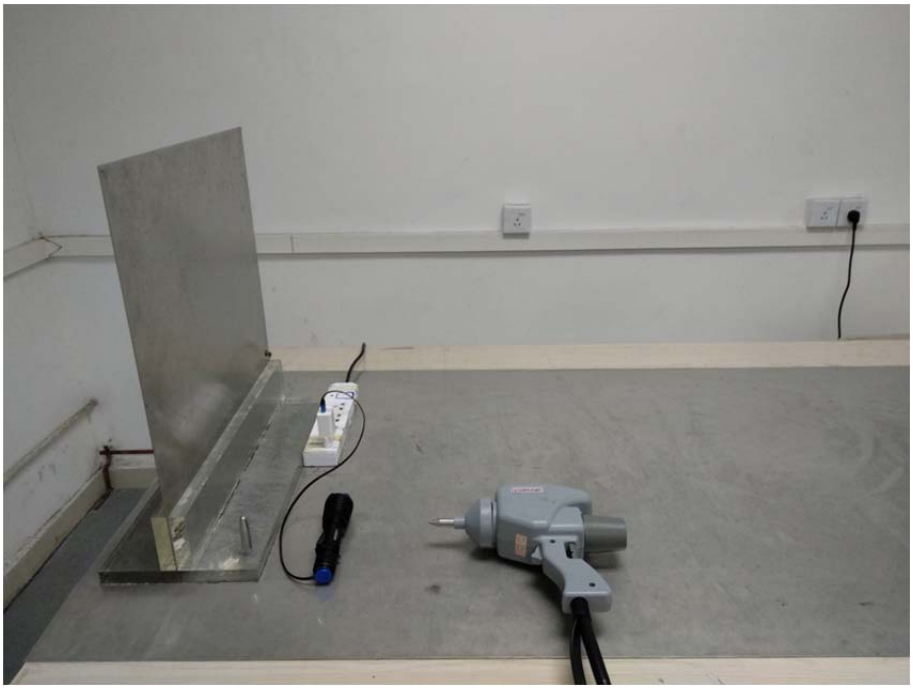
Radiation Emission Test View (9kHz to 30MHz)



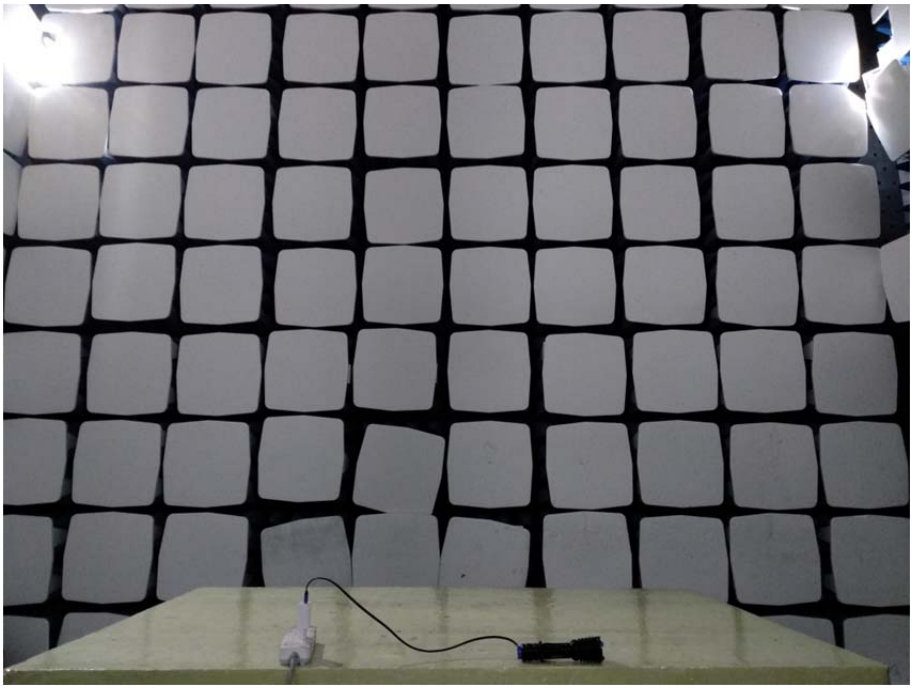
Radiation Emission Test View (30MHz to 300MHz)



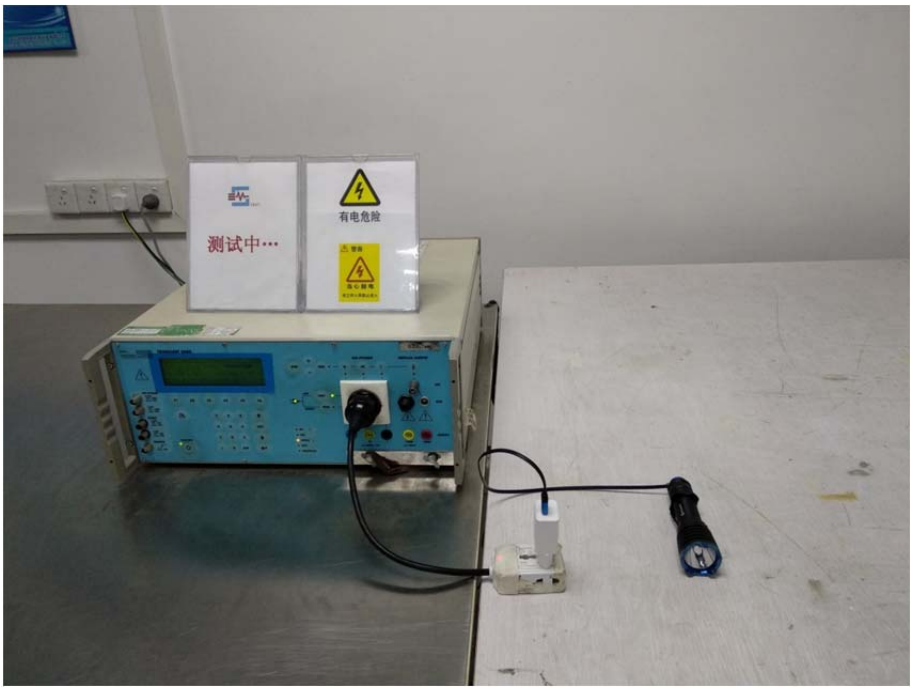
EN 61000-4-2 Test View



EN 61000-4-3 Test View



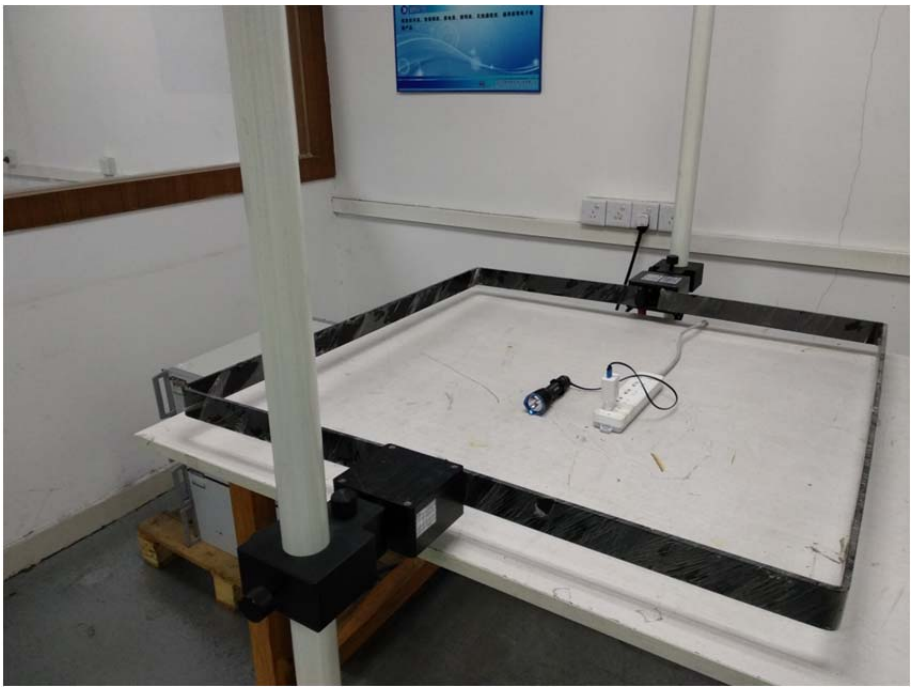
EN 61000-4-4/5 Test View



EN 61000-4-6 Test View



EN 61000-4-8 Test View



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