

TEST REPORT

Reference No...... : WTN18S08121571W
FCC ID : 2AP2V-DESKLAMP03
Applicant..... : Shaoxing Prolux Lighting Co., Ltd
Address..... : Ludong Industrial Zone, BaiGuan Street, Shang Yu District, Shaoxing City,
Zhejiang Province, China
Manufacturer : Shaoxing Prolux Lighting Co., Ltd
Address..... : Ludong Industrial Zone, BaiGuan Street, Shang Yu District, Shaoxing City,
Zhejiang Province, China
Product..... : LED DESK LAMP
Model(s) : PL-0168(IH-QI6018W)
Additional model(s) : PL-0168(IH-QI6018X), where "X" means one capital letters (A-Z)
Standards..... : FCC CFR47 Part 15.207: 2018
FCC CFR47 Part 15.209: 2018
Date of Receipt sample : 2018-08-20
Date of Test : 2018-08-21 to 2018-09-06
Date of Issue..... : 2018-09-13
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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1 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation) of USA, Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CEC(California energy efficiency), IC(Industry Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek(ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

1.1 Test Facility

A. Accreditations for Conformity Assessment (International)

Country/Region	Scope Covered By	Scope	Note
USA	ISO/IEC 17025	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		WPC	-
Thailand		NTC	-
Singapore		IDA	-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. IC Canada Registration No.: 7760A			

B.TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTN18S08121571W	2018-08-20	2018-08-21 to 2018-09-06	2018-09-13	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	LED DESK LAMP
Model(s):	PL-0168(IH-QI6018W)
Additional model(s):	PL-0168(IH-QI6018X), where "X" means one capital letters (A-Z)
Model Description:	Only the appearance colors and modele names are different. The model PL-0168(IH-QI6018W) is the tested sample.

4.2 Details of E.U.T.

Operation Frequency:	112kHz to 205kHz
Type of Modulation:	ASK
Antenna installation:	Coil Antenna
Antenna Gain:	N/A
Ratings:	AC 120V, 60Hz Max.13W, LED: 4W, Wireless module output: DC 5V,1A (Powered by Class 2 Power Supply, Model: RSS1006-156130-W2-B, Input: 100-240V~50/60Hz, 1.4A; Output: DC 13.0V, 1.2A)

4.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Test channel
Transmitting	145.91kHz

5 Equipment Used during Test

5.1 Equipment List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	2017-09-12	2018-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11
3.	Limiter	York	MTS-IMP-136	261115-001-0024	2017-09-12	2018-09-11
4.	Cable	LARGE	RF300	-	2017-09-12	2018-09-11
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2018-04-29	2019-04-28
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-29	2019-04-28
3	Active Loop Antenna	Com-power	AL-130R	10160007	2018-04-17	2019-04-16
4	Amplifier	ANRITSU	MH648A	M43381	2018-04-29	2019-04-28
5	Cable	HUBER+SUHNER	CBL2	525178	2018-04-29	2019-04-28
6	Coaxial Cable (below 1GHz)	Top	TYPE16 (13M)	-	2017-09-12	2018-09-11
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP30	100091	2018-04-20	2019-04-19
2	Coaxial Cable	Top	10Hz-30GHz	-	2017-09-12	2018-09-11
3	Antenna Connector*	Realacc	45RSm	-	2017-09-12	2018-09-11
4	DC Block	Gwave	GDCB-3G-N-SMA	140307001	2017-09-12	2018-09-11
“*”: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.						

5.2 Description of Support Units

Equipment	Manufacturer	Model No.
Juice pack air	mophie	JPA-IP7

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
Confidence interval: 95%. Confidence factor:k=2	

5.4 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	Pass
Radiated Spurious Emissions	15.205(a) 15.209	Pass
Bandwidth Measurement	15.205(a) 15.215(c)	Pass
Antenna Requirement	15.203	Pass
Note: Pass =Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable.		

7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207
 Test Method: ANSI C63.10:2013
 Test Result: PASS
 Frequency Range: 150kHz to 30MHz
 Class/Severity: Class B
 Limit:

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

7.1 E.U.T. Operation

Operating Environment :

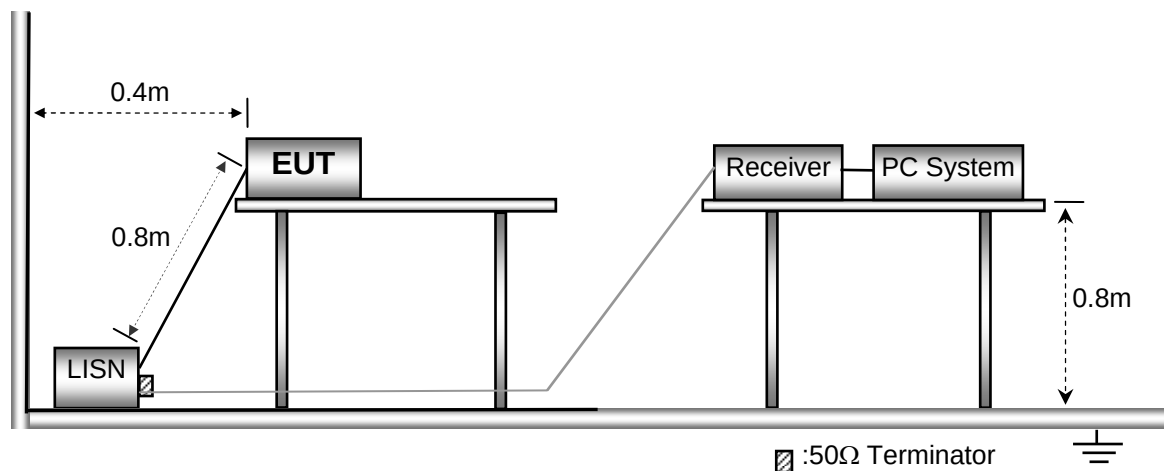
Temperature: 25.5 °C
 Humidity: 51 % RH
 Atmospheric Pressure: 101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.

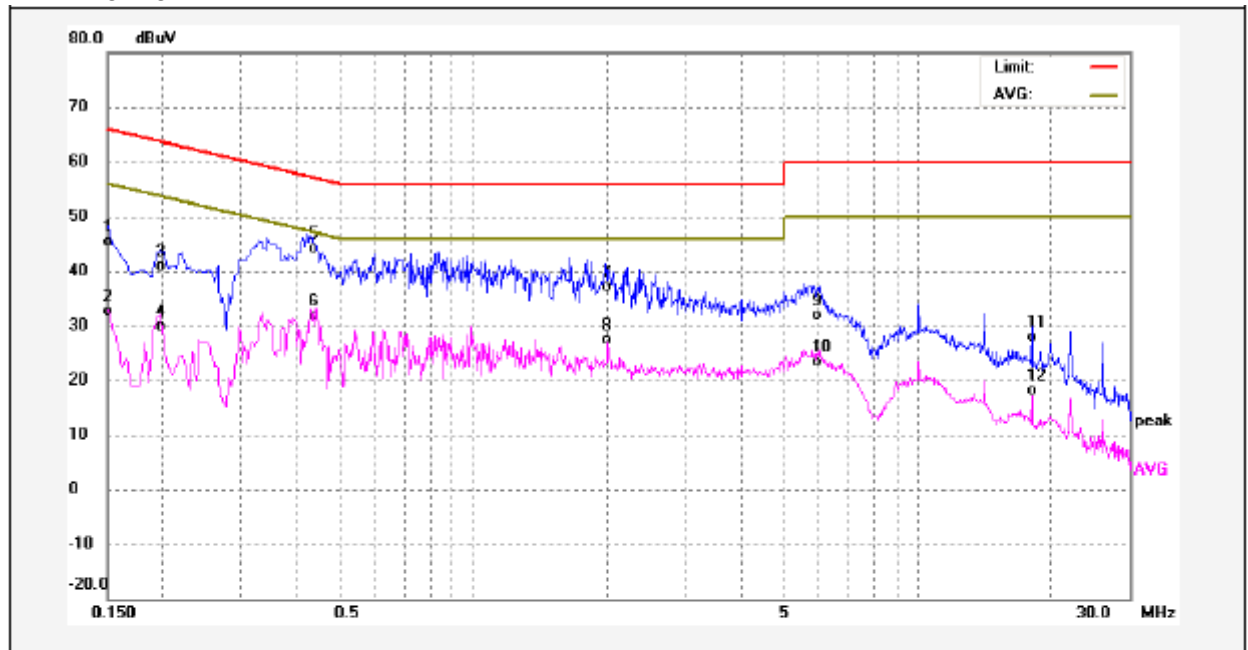


7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

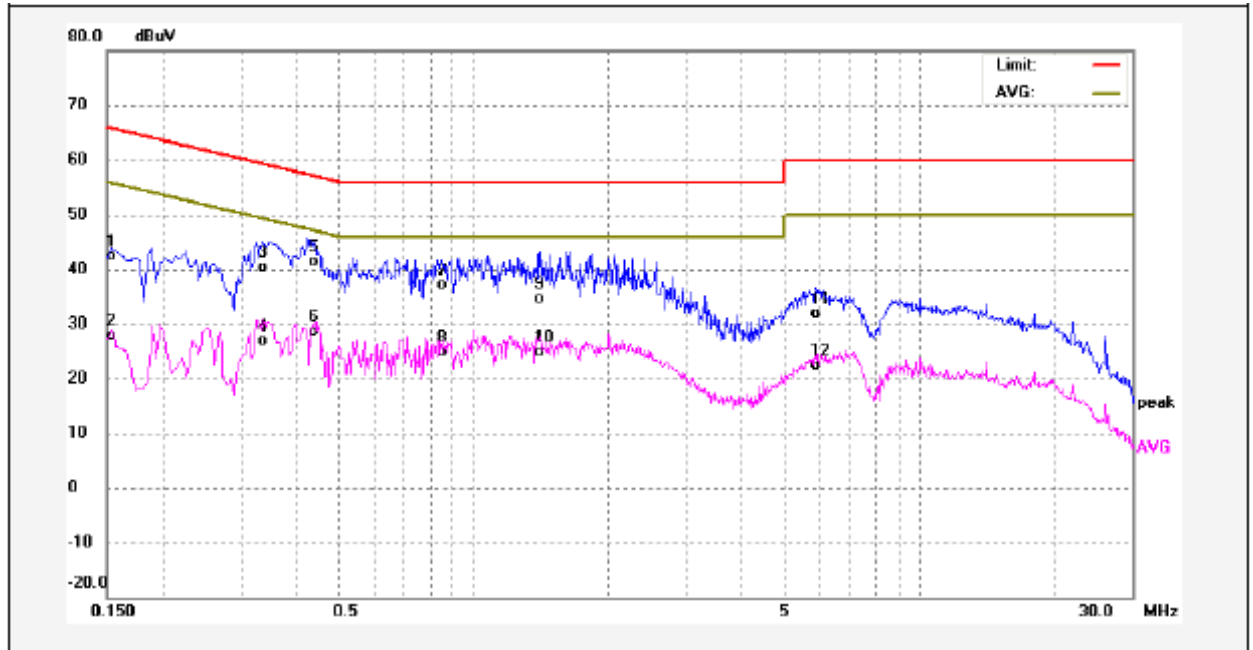
7.4 Conducted Emission Test Result

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	35.03	10.26	45.29	65.99	-20.70	QP	
2	0.1500	22.32	10.26	32.58	55.99	-23.41	AVG	
3	0.1980	30.46	10.32	40.78	63.69	-22.91	QP	
4	0.1980	19.62	10.32	29.94	53.69	-23.75	AVG	
5	0.4420	33.82	10.42	44.24	57.02	-12.78	QP	
6	0.4420	21.47	10.42	31.89	47.02	-15.13	AVG	
7	2.0100	26.67	10.56	37.23	56.00	-18.77	QP	
8	2.0100	16.88	10.56	27.44	46.00	-18.56	AVG	
9	5.9420	21.00	10.90	31.90	60.00	-28.10	QP	
10	5.9420	12.52	10.90	23.42	50.00	-26.58	AVG	
11	18.0940	17.05	10.80	27.85	60.00	-32.15	QP	
12	18.0940	7.43	10.80	18.23	50.00	-31.77	AVG	

Live N:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	32.19	10.27	42.46	65.78	-23.32	QP	
2	0.1539	17.52	10.27	27.79	55.78	-27.99	AVG	
3	0.3379	30.04	10.42	40.46	59.25	-18.79	QP	
4	0.3379	16.44	10.42	26.86	49.25	-22.39	AVG	
5	0.4420	30.90	10.42	41.32	57.02	-15.70	QP	
6	0.4420	18.23	10.42	28.65	47.02	-18.37	AVG	
7	0.8540	26.64	10.44	37.08	56.00	-18.92	QP	
8	0.8540	14.42	10.44	24.86	46.00	-21.14	AVG	
9	1.4060	24.19	10.47	34.66	56.00	-21.34	QP	
10	1.4060	14.40	10.47	24.87	46.00	-21.13	AVG	
11	5.8940	20.92	10.90	31.82	60.00	-28.18	QP	
12	5.8940	11.51	10.90	22.41	50.00	-27.59	AVG	

8 Radiated Spurious Emissions

Test Requirement: FCC Part15 Paragraph 15.209, 15.205(a)

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

FCC Part15 Paragraph 15.209

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

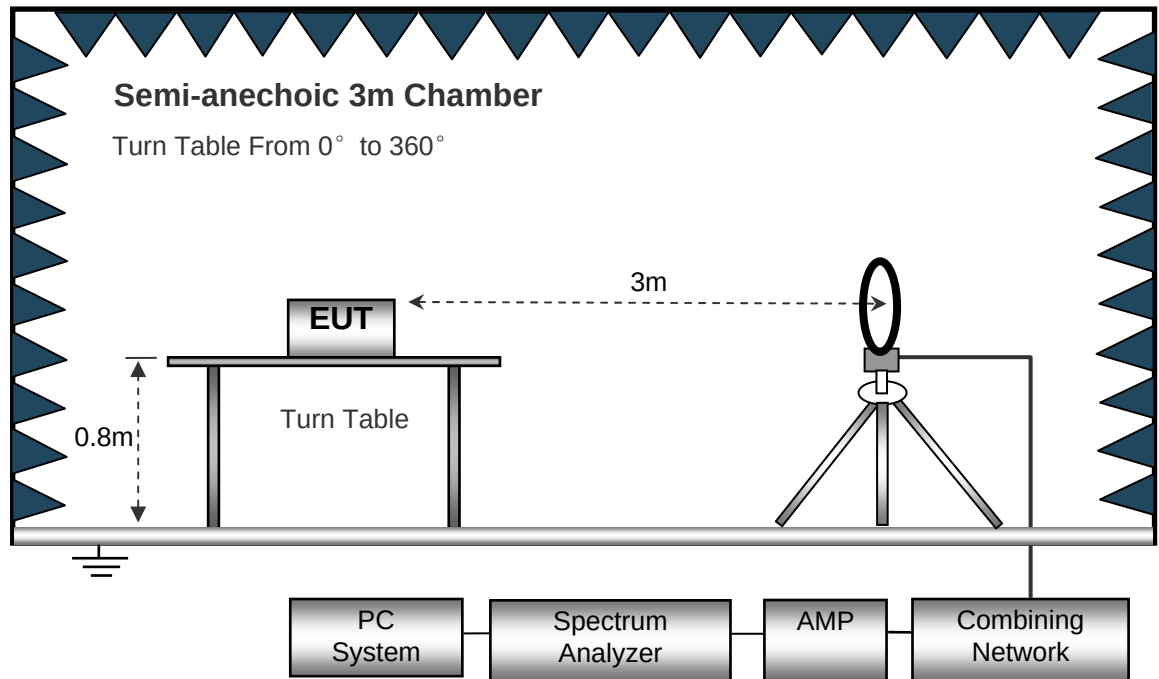
EUT Operation :

The test was performed in Transmitting mode, the test data were shown in the report.

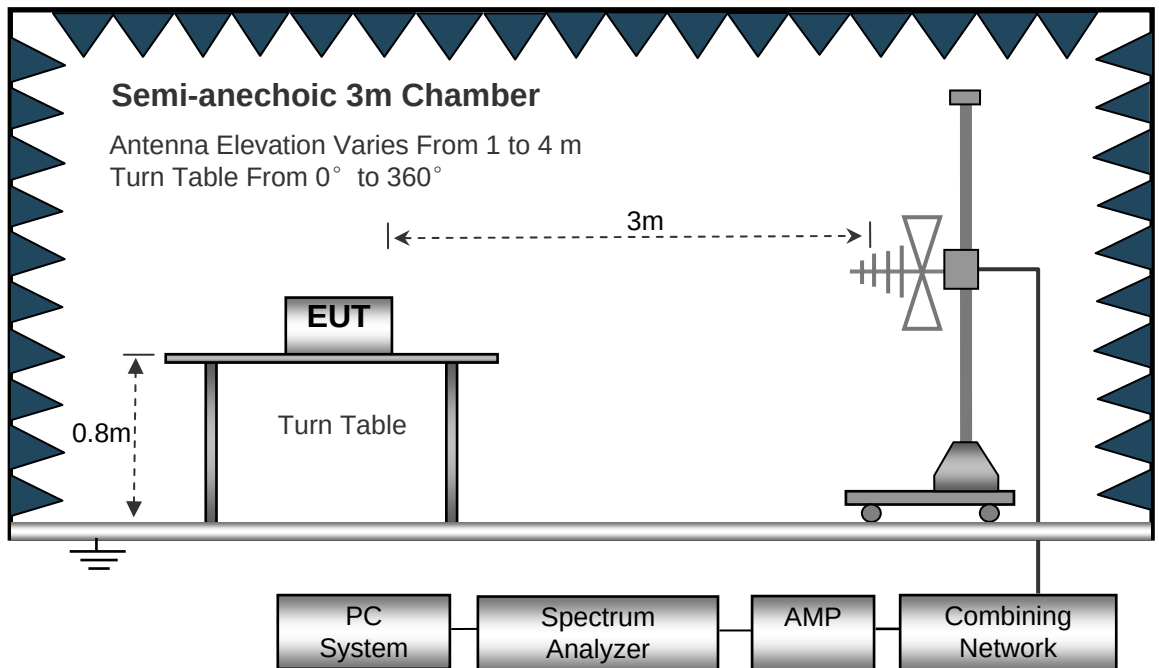
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10:2013

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth..... 300kHz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the Z position. So the data shown was the Z position only.

8.5 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

Test Frequency: 9 kHz ~ 30 MHz

Frequency	Receiver Reading (AV)	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude (AV)	FCC Part 15.209	
			Height	Polar			Limit	Margin
(kHz)	(dBμV @3m)	Degree	(m)	(H/V)	(dB/m)	(dBμV @3m)	(dBμV @3m)	(dB)
145.91	51.43	147	1.1	H	17.52	68.95	104.32	-35.37
145.91	35.75	71	1.2	V	17.52	53.27	104.32	-51.05

Test Frequency: 30 MHz ~ 1 GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.209	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	QP	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
38.08	34.11	QP	245	1.9	H	-17.45	16.66	40.00	-23.34
38.08	52.10	QP	117	1.0	V	-17.45	34.65	40.00	-5.35
165.49	50.06	QP	83	1.6	H	-15.68	34.38	43.50	-9.12
165.49	55.70	QP	159	1.5	V	-15.68	40.02	43.50	-3.48
356.68	51.26	QP	127	1.9	H	-13.38	37.88	46.00	-8.12
356.68	47.19	QP	350	1.4	V	-13.38	33.81	46.00	-12.19

Note: Correct factor = Cable loss + Antenna factor

9 Bandwidth Measurement

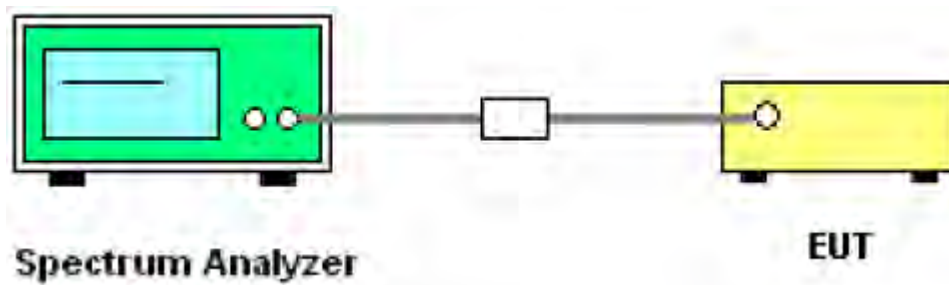
Test Requirement: FCC Part15.215(C), Part15.205 (a)

Test Method: ANSI C63.10: 2013

9.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. Bandwidth Measure the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier and 99% Bandwidth.

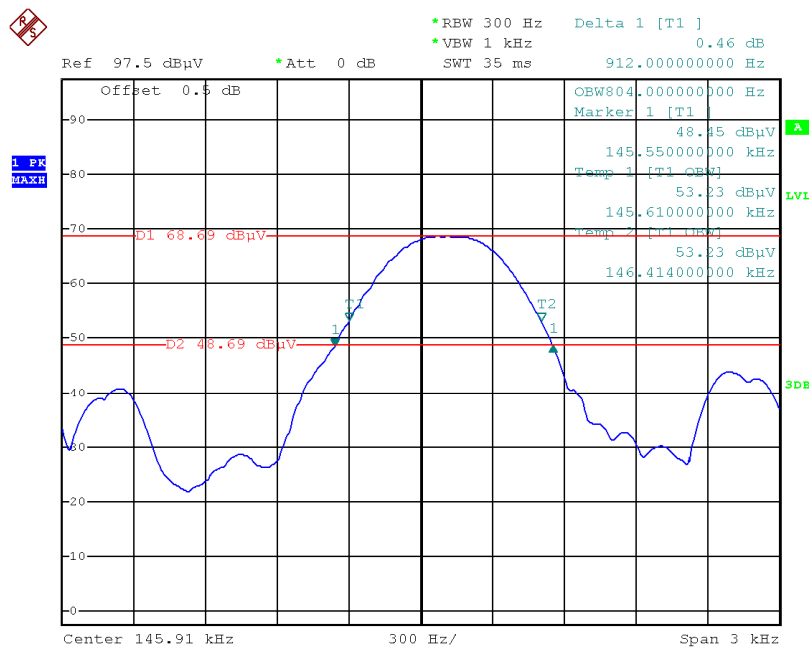
9.2 Test Setup



9.3 Test Result

Frequency(kHz)	20dB Bandwidth Emission(kHz)	99% Bandwidth Emission(kHz)
145.91	0.912	0.804

Test Plot



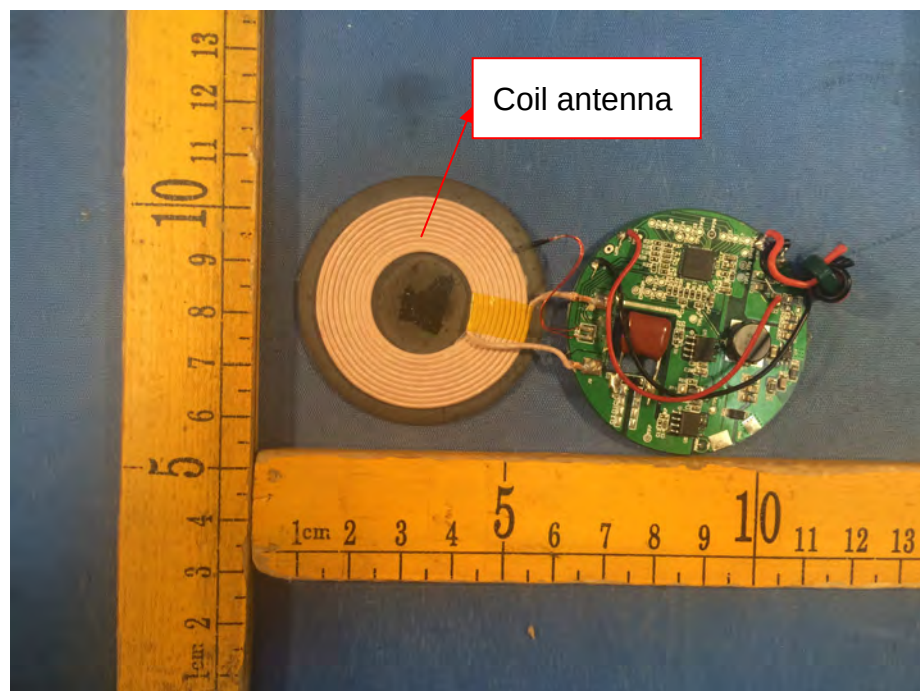
10 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 15 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Result:

The EUT has one Coil antenna, Meets the requirements of FCC 15.203.



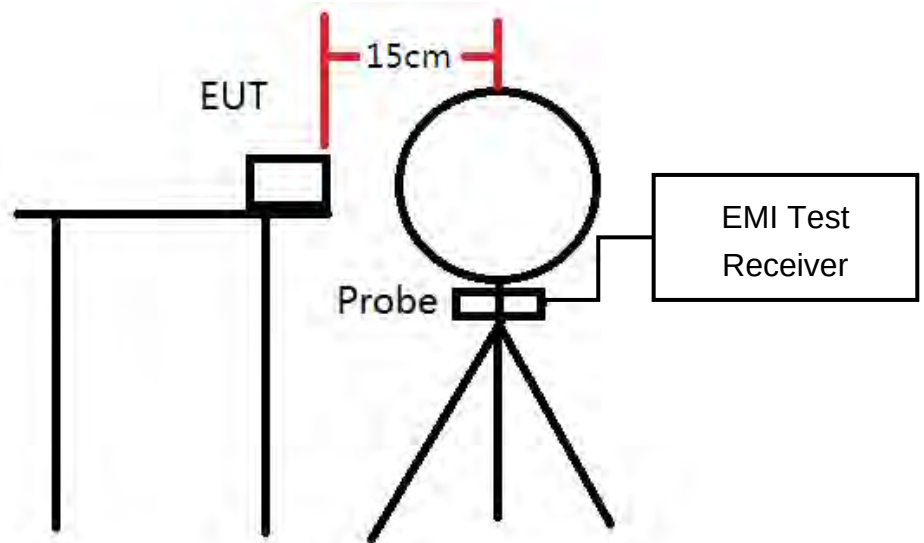
11 FCC ID: 2AP2V-DESKLAMP03 RF Exposure Report

11.1 Test Requirement:

Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(b), 1.1310

According KDB 680106 D01 RF Exposure Wireless Charging App v03 and FCC CFR 47 Part 2.1091(d)(4)

11.2 Test Setup



These testing were performed at test configuration as above diagram.

EUT was placed on a table, and the measure probe was placed at a measurement distance of 15cm from the EUT (Left, Right, Front, Rear, Bottom) to the center of the probe and 20cm from the EUT (Top) to the center of the probe.

11.3 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

11.4 RF Exposure Evaluations

Test Side	Separation Distance(cm)	Measured Result(A/m)	Limit(A/m)	Result
Left	15	0.19	1.63	Compliance
Right	15	0.22	1.63	Compliance
Front	15	0.26	1.63	Compliance
Rear	15	0.24	1.63	Compliance
Top	20	0.21	1.63	Compliance
Bottom	15	0.20	1.63	Compliance
Max Margin (%)	15.95		Limit (%)	50

11.5 EQUIPMENT APPROVAL CONSIDERATIONS

(1) Power transfer frequency is less than 1 MHz

Re: This device power transfer frequency range from 112~205 kHz is less than 1MHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Re: This device Maximum Output power is 5W less than 15W.

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

Re: The transfer system includes only single primary and secondary coils.

(4) Client device is placed directly in contact with the transmitter.

Re: Client device is placed directly in contact with the transmitter.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

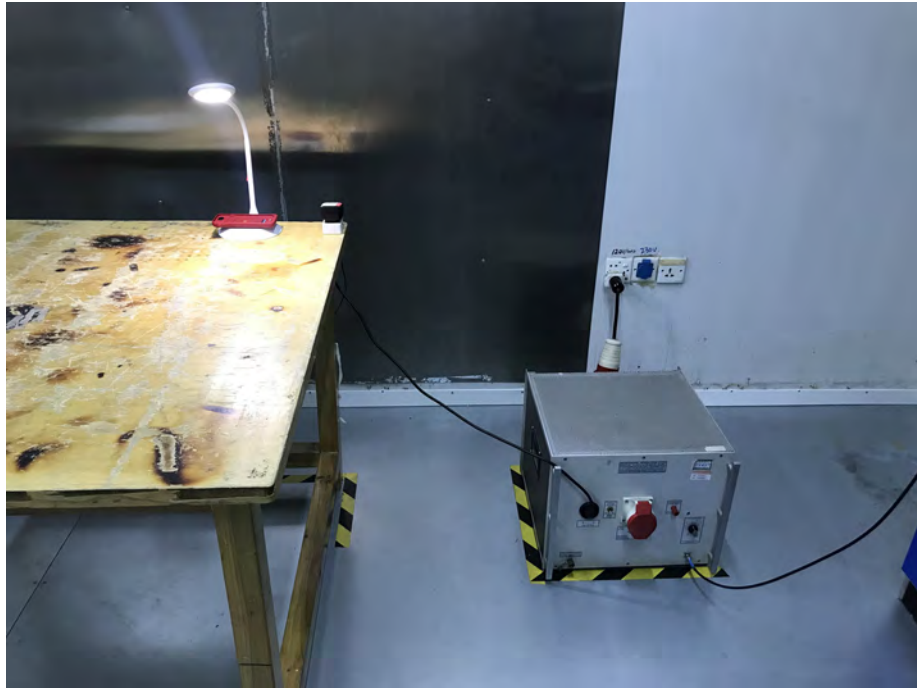
Re: Mobile exposure conditions only.

(6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

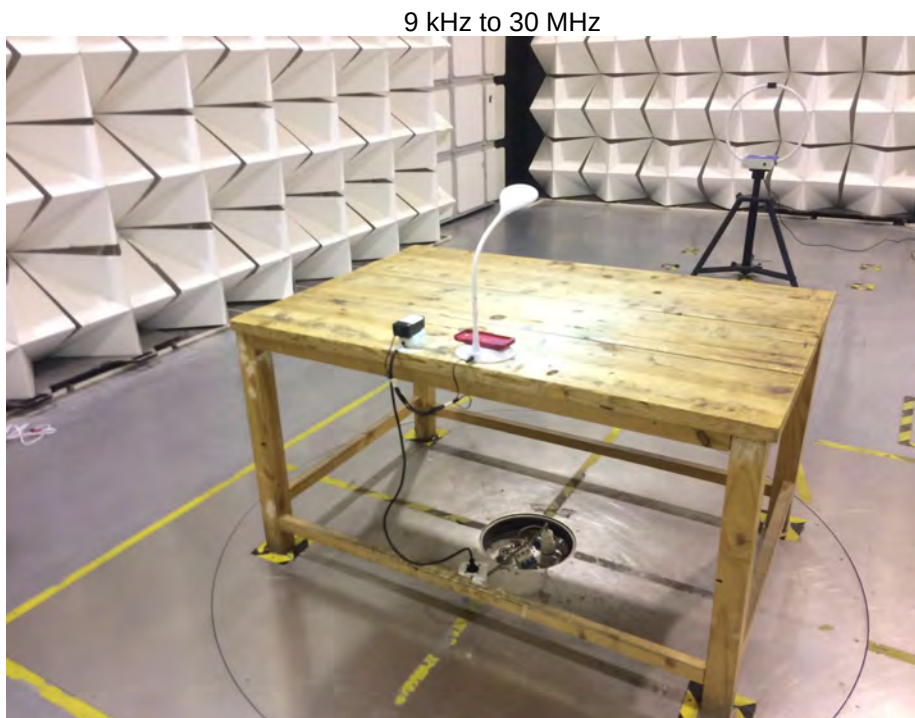
Re: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

12 Photographs – Model PL-0168(IH-QI6018W) Test Setup Photos

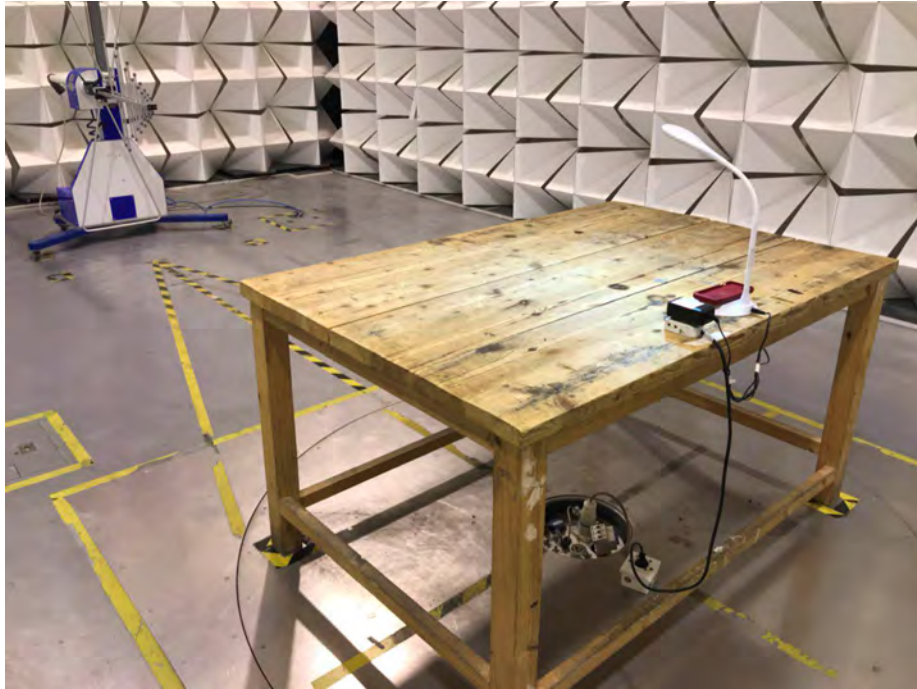
12.1 Photograph – Conducted Emission Test Setup



12.2 Photograph – Radiation Spurious Emission Test Setup



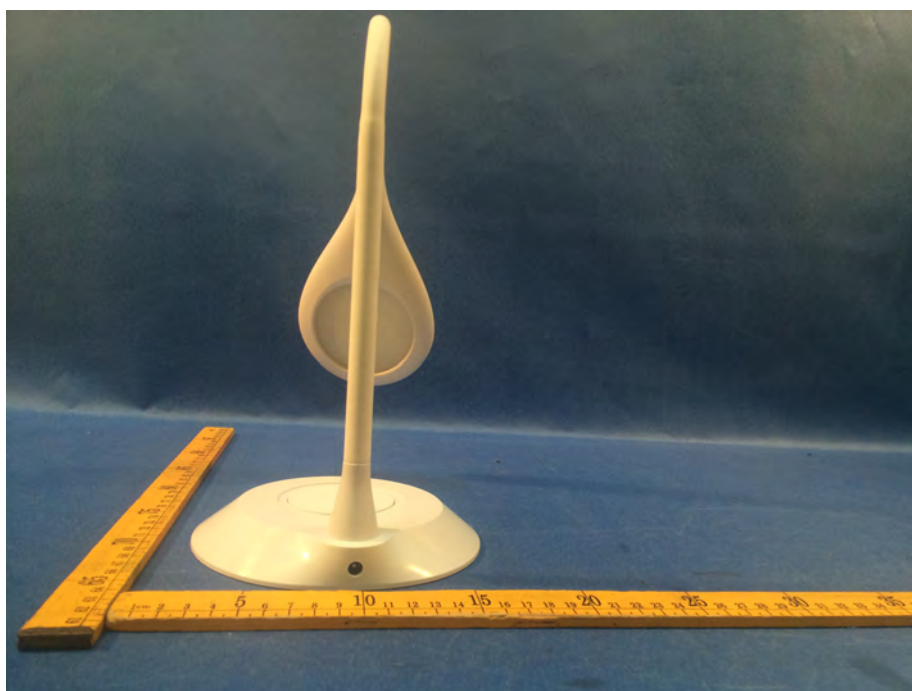
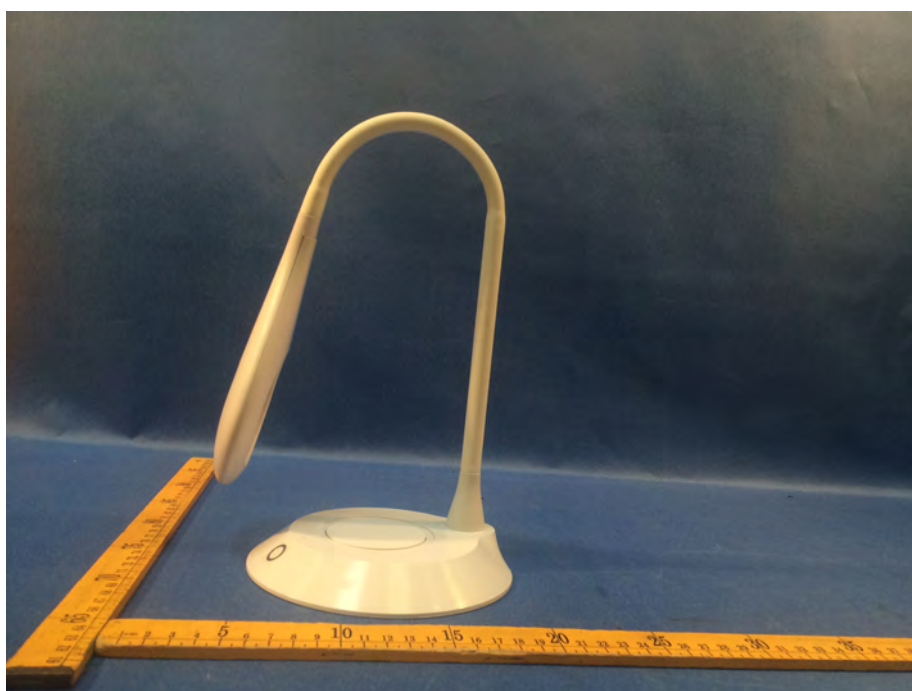
From 30 MHz to 1GHz

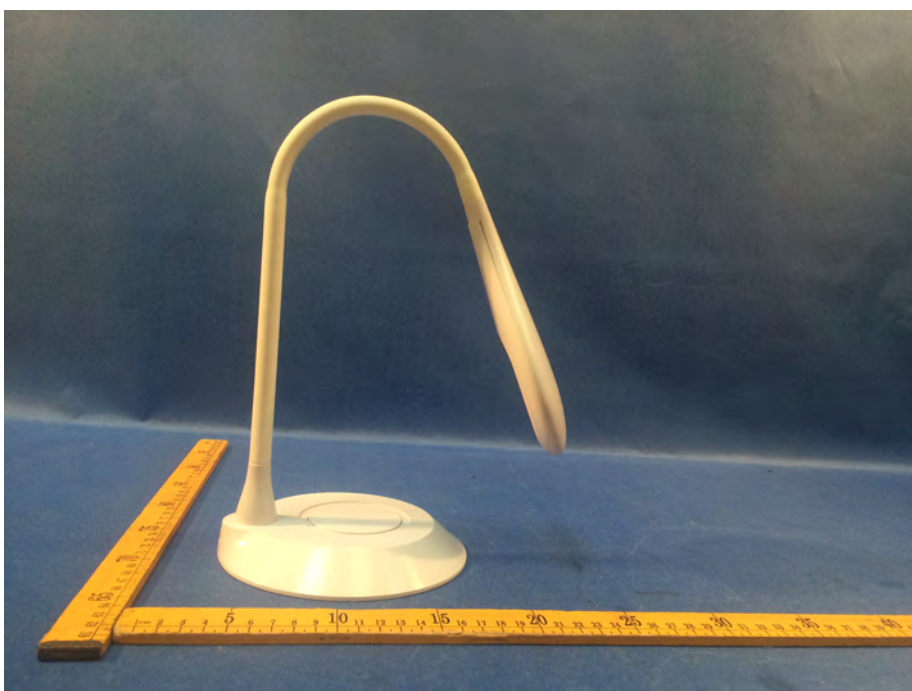


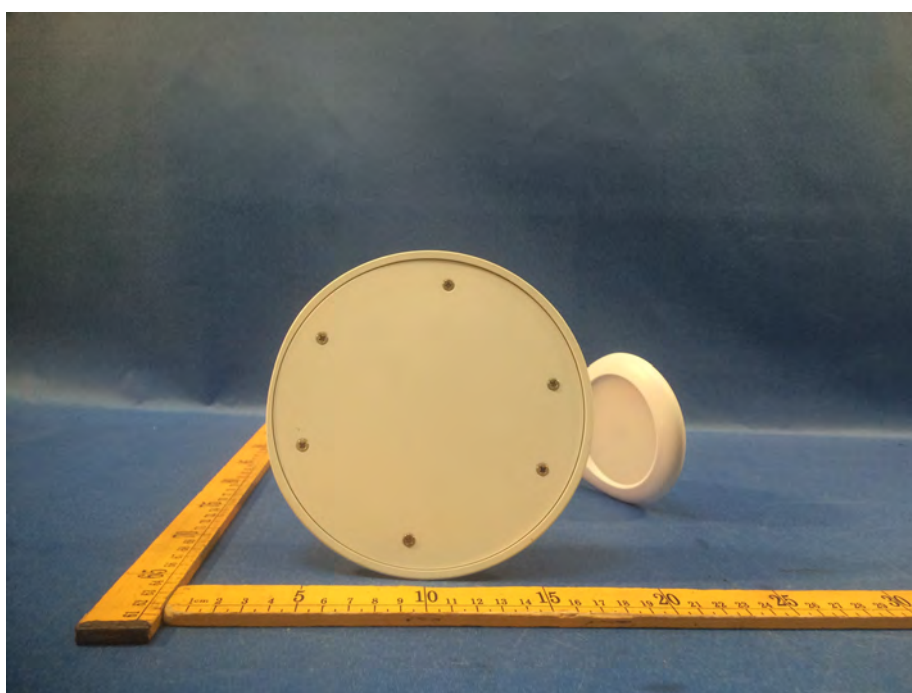
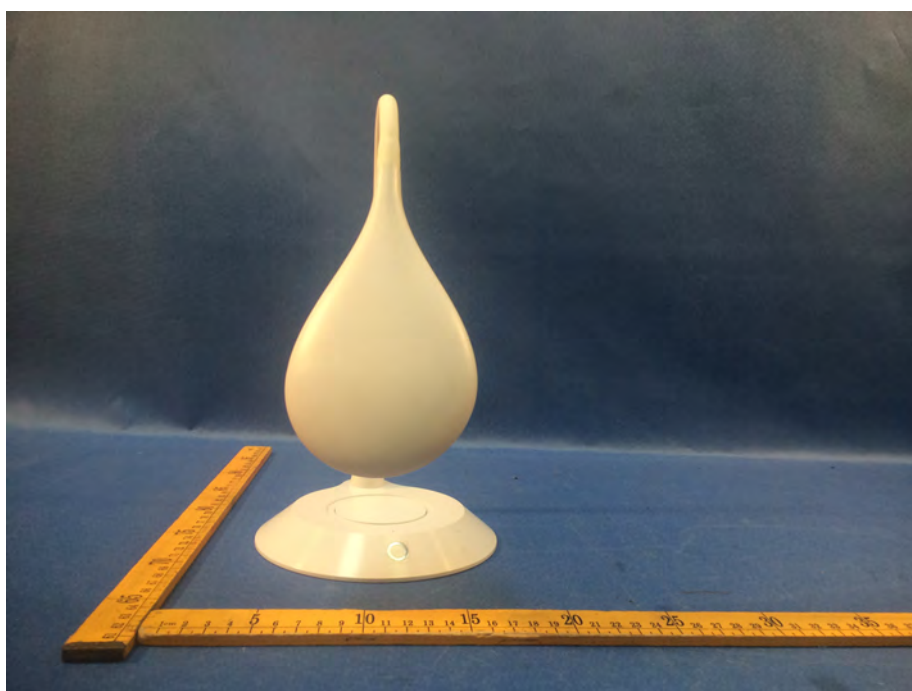
13 Photographs - Constructional Details

13.1 Model PL-0168(IH-QI6018W) – External Photos



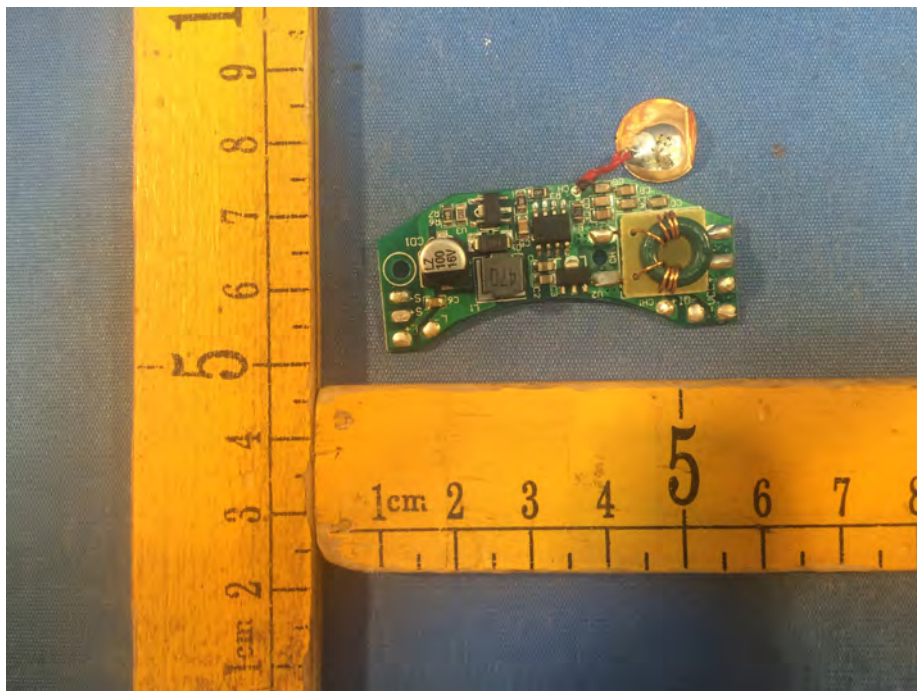
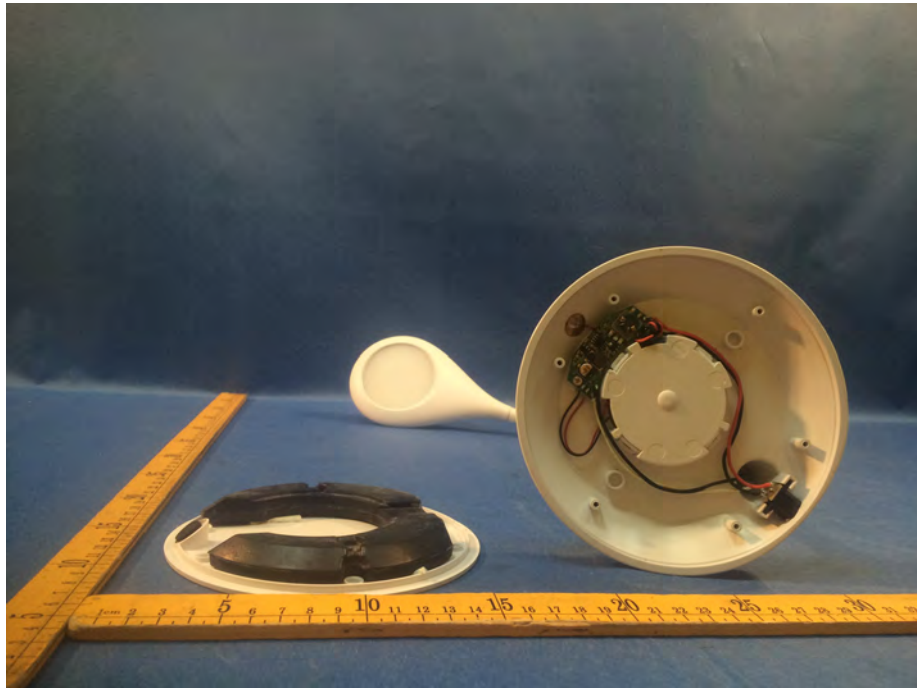


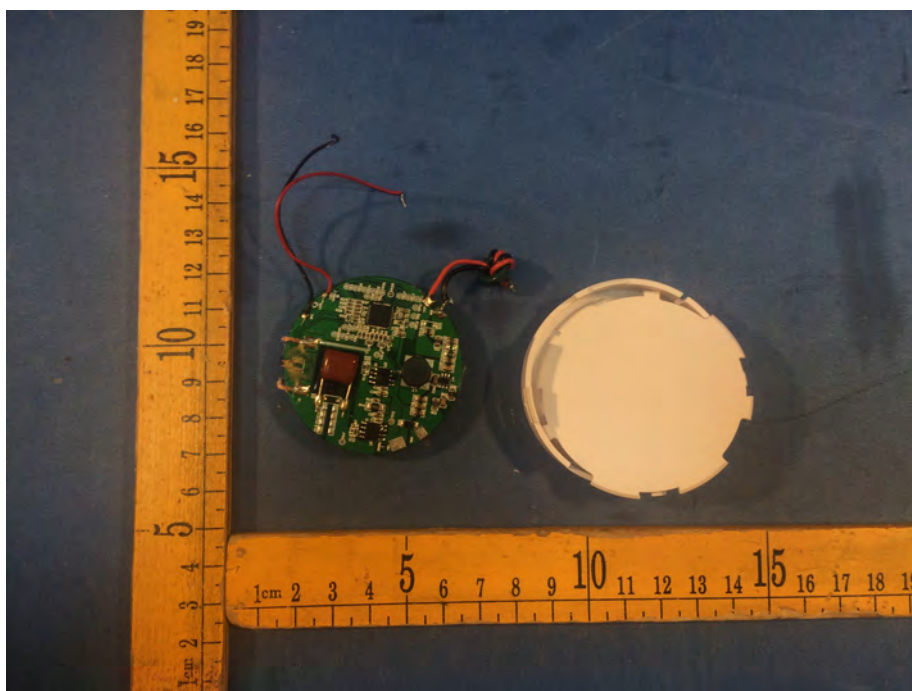


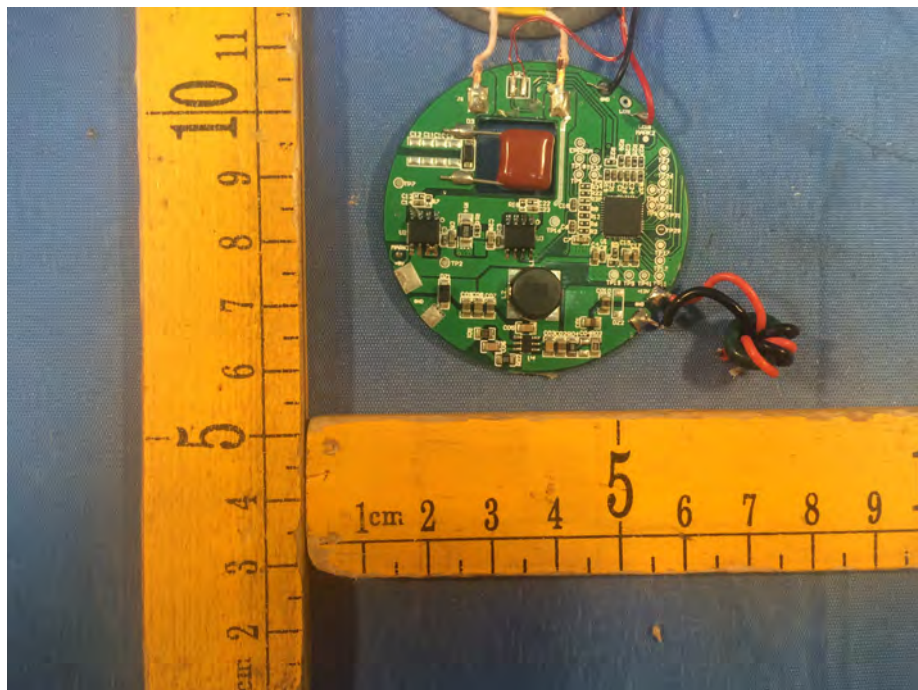
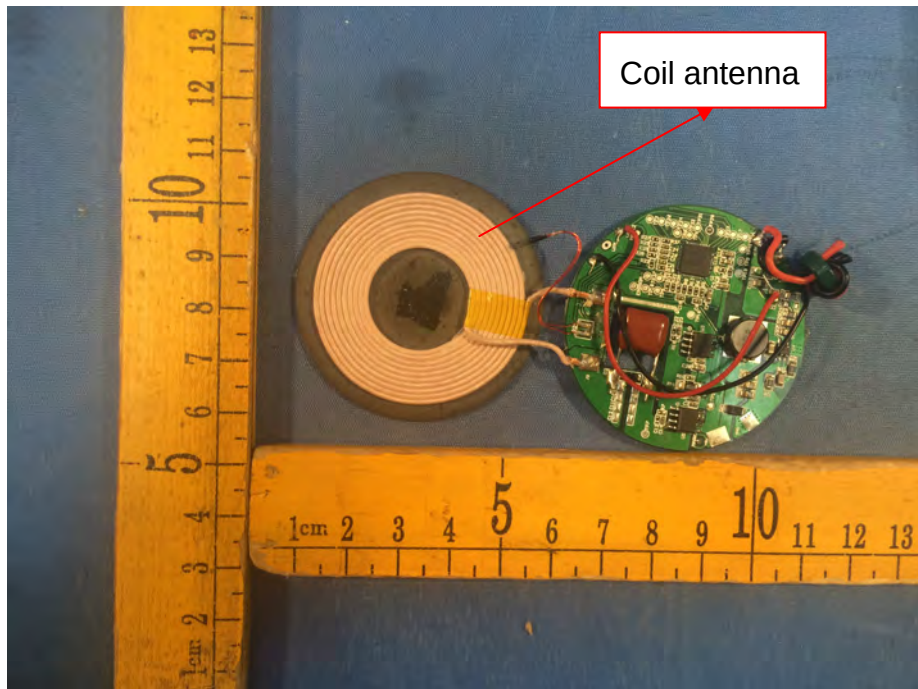


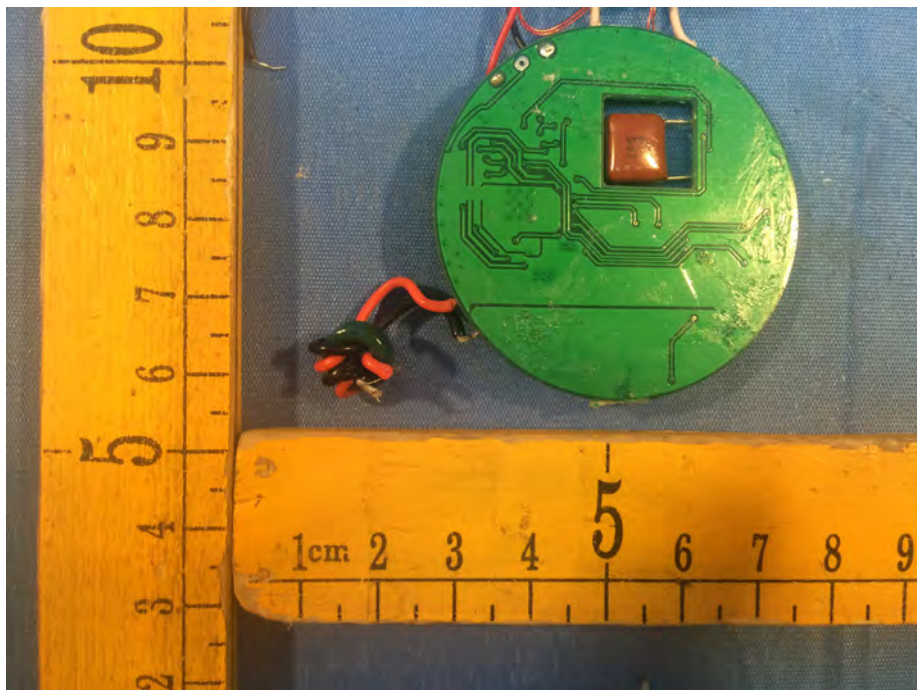
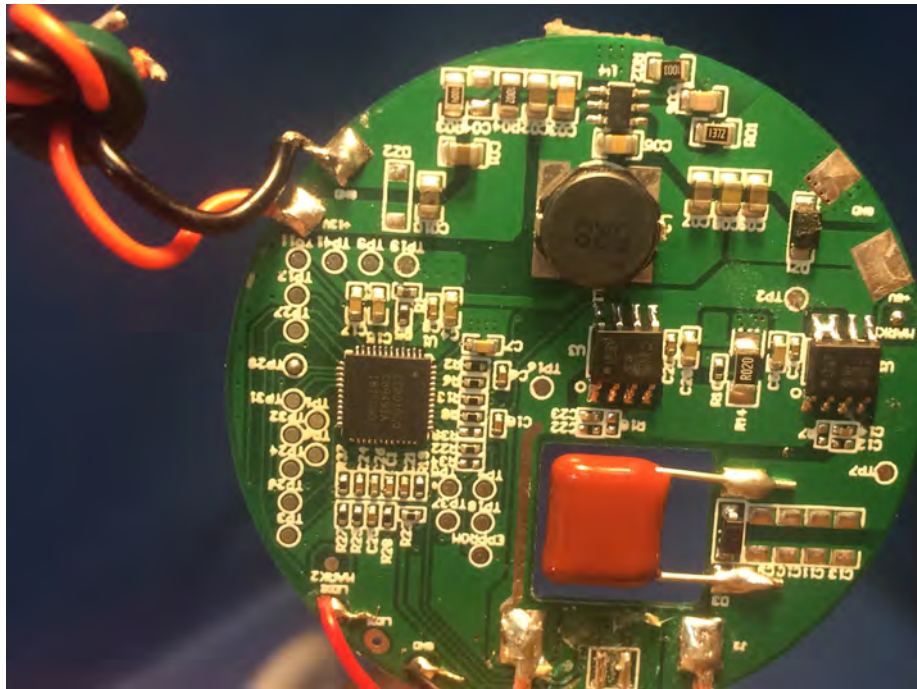


13.2 Model PL-0168(IH-QI6018W) – Internal Photos

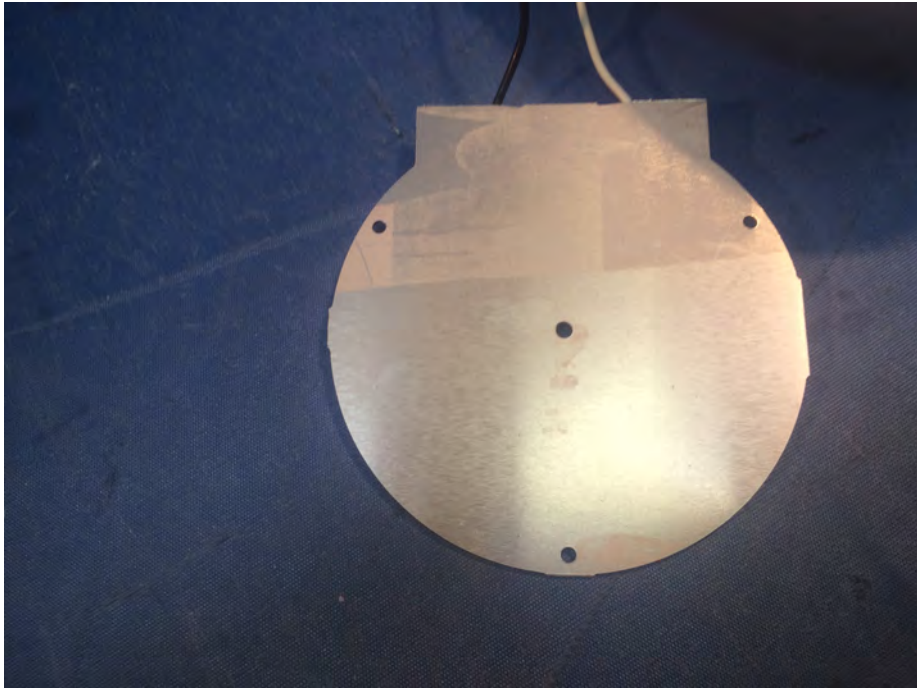












=====End of Report=====