

## FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

LED chandelier

Test Model: MD8040-1-3BD

Additional Model No.: PDT1-FIC-XXXXXX

(Note: "XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))

Prepared for : ARTIKA FOR LIVING INC.  
Address : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5  
Lachine Canada

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park  
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Date of receipt of test sample : June 26, 2021  
Number of tested samples : 1  
Sample number : 210626022A  
Serial number : Prototype  
Date of Test : June 26, 2021 ~ July 07, 2021  
Date of Report : July 07, 2021

**FCC Part 15, Subpart B, Class B**  
**FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014**

**Report Reference No. .... : LCS210626022AE**

**Date Of Issue..... : July 07, 2021**

**Testing Laboratory Name .... : Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Address ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park**  
Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
518000, China

**Testing Location/ Procedure... : Full application of Harmonised standards ■**  
Partial application of Harmonised standards □  
Other standard testing method □

**Applicant's Name..... : ARTIKA FOR LIVING INC.**

**Address ..... : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5 Lachine**  
Canada

**Test Specification**

**Standard..... : FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014**

**Test Report Form No. .... : LCSEMC-1.0**

**TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Master TRF..... : Dated 2011-03**

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**Test Item Description. .... : LED chandelier**

**Test Model ..... : MD8040-1-3BD**

**Trade Mark ..... : HIFLY, Artika**

**Ratings ..... : AC 120V, 50/60Hz, 13W**

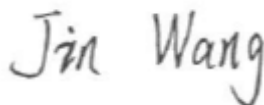
**Result ..... : Positive**

**Compiled by:**



Cherry Chen/ Administrators

**Supervised by:**



Jin Wang/ Technique principal

**Approved by:**



Gavin Liang/ Manager

**FCC -- TEST REPORT****Test Report No. : LCS210626022AE**July 07, 2021

Date of issue

Test Model ..... : MD8040-1-3BD

EUT..... : LED chandelier

**Applicant..... : ARTIKA FOR LIVING INC.**Address..... : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5  
Lachine Canada

Telephone..... : /

Fax..... : /

**Manufacturer..... : HIFLY ILLUMINATION CO.,LIMITED**Address..... : BLOCK 1,1/F,BUILDING 2,2 YIHUI 3RD ROAD MAOHU  
I INDUSTRIAL ZONE,HENGLAN TOWN,ZHONGSHAN  
CITY,GUANGDONG PROVINCE,CHINA

Telephone..... : /

Fax..... : /

**Factory..... : HIFLY ILLUMINATION CO.,LIMITED**Address..... : BLOCK 1,1/F,BUILDING 2,2 YIHUI 3RD ROAD MAOHU  
I INDUSTRIAL ZONE,HENGLAN TOWN,ZHONGSHAN  
CITY,GUANGDONG PROVINCE,CHINA

Telephone..... : /

Fax..... : /

**Test Result** according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Revision History

Revision	Issue Date	Revisions	Revised By
000	July 07, 2021	Initial Issue	Gavin Liang

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## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Applicable.			

**Test mode:**

Mode	Lighting	Record
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\*\*\*Note: All test modes were tested, but we only recorded the worst case in this report.

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

EUT : LED chandelier

Trade Mark : HIFLY, Artika

Test Model : MD8040-1-3BD

Additional Model : PDT1-FIC -XXXXXX  
("X" can be A to Z and/or 0 to 9 and/or blank  
(commercial code))

Model Declaration : PCB board, structure and internal of these model(s) are  
the same, So no additional models were tested

Power Supply : AC 120V, 50/60Hz,13W

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 × Fx up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.	

### 2.2. Support Equipment List

Name	Manufacturers	M/N	S/N
--	--	--	--

### 2.3. Description of Test Facility

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.  
FCC Designation Number is CN5024.  
FCC Test Firm Registration Number: 254912  
CAB identifier is CN0071.  
CNAS Registration Number is L4595.

## 2.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (U <sub>lab</sub> )	Expanded Uncertainty (U <sub>cispr</sub> )
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	$\pm 2.63$ dB $\pm 2.35$ dB	$\pm 3.8$ dB $\pm 3.4$ dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	$\pm 3.48$ dB	$\pm 5.3$ dB
Radiated Emission	Level accuracy (above 1000MHz)	$\pm 3.90$ dB	$\pm 5.2$ dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.



### 3. TEST RESULTS

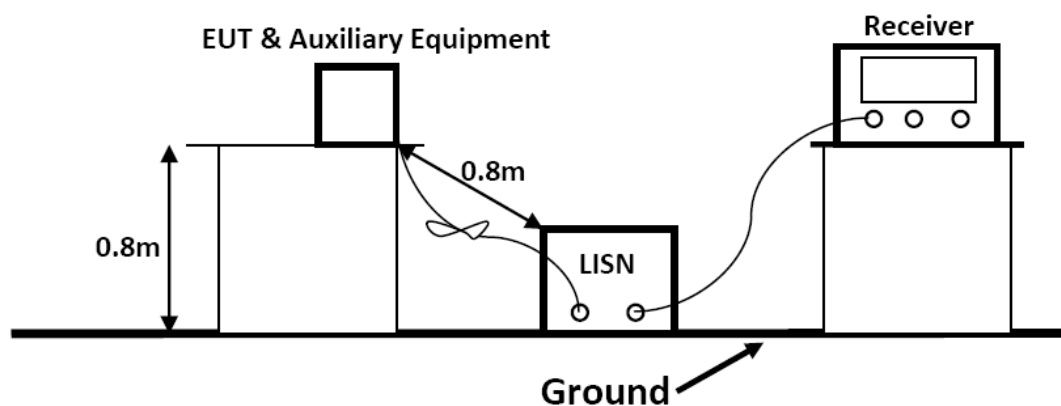
#### 3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

##### 3.1.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2021-06-22	2022-06-21
3	Artificial Mains	SCHWARZBECK	NSLK8127	8127716	2021-06-22	2022-06-21
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-22	2022-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-10-20	2021-10-19

The following test equipments are used during the power line conducted measurement:

##### 3.1.2. Block Diagram of Test Setup



##### 3.1.3. Test Standard

###### Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB $\mu$ V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

##### 3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

### 3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Lighting and measure it.

### 3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

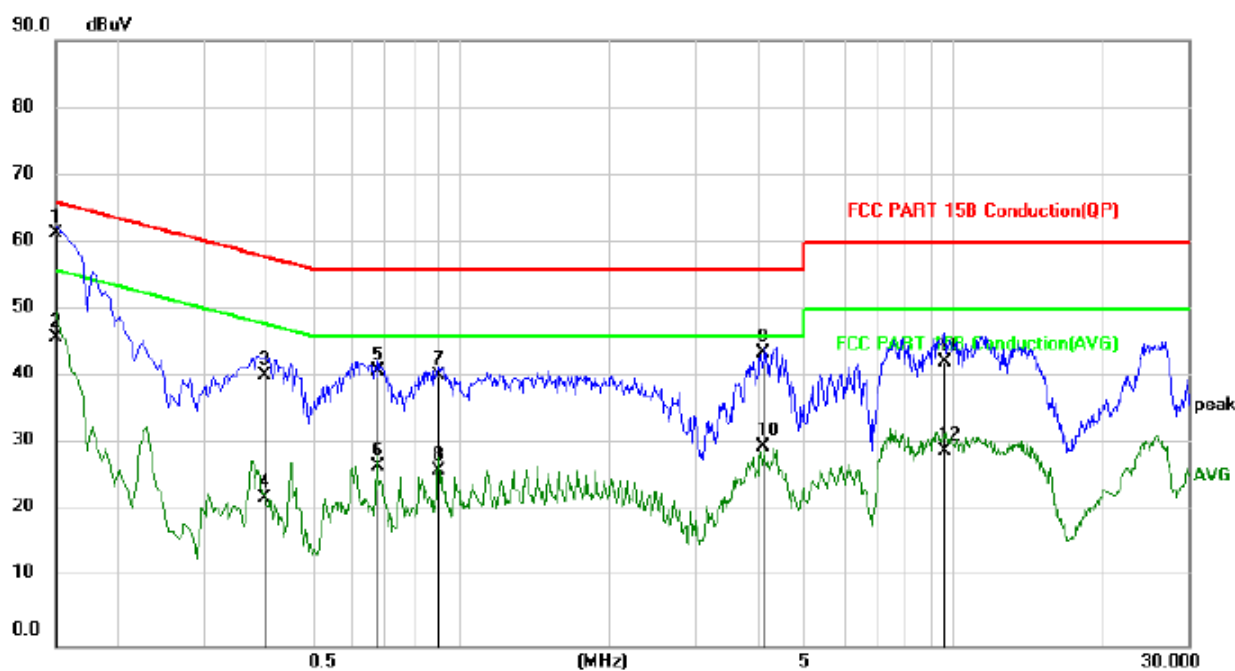
The frequency range from 150kHz to 30MHz is investigated

### 3.1.7. Test Results

**PASS.**

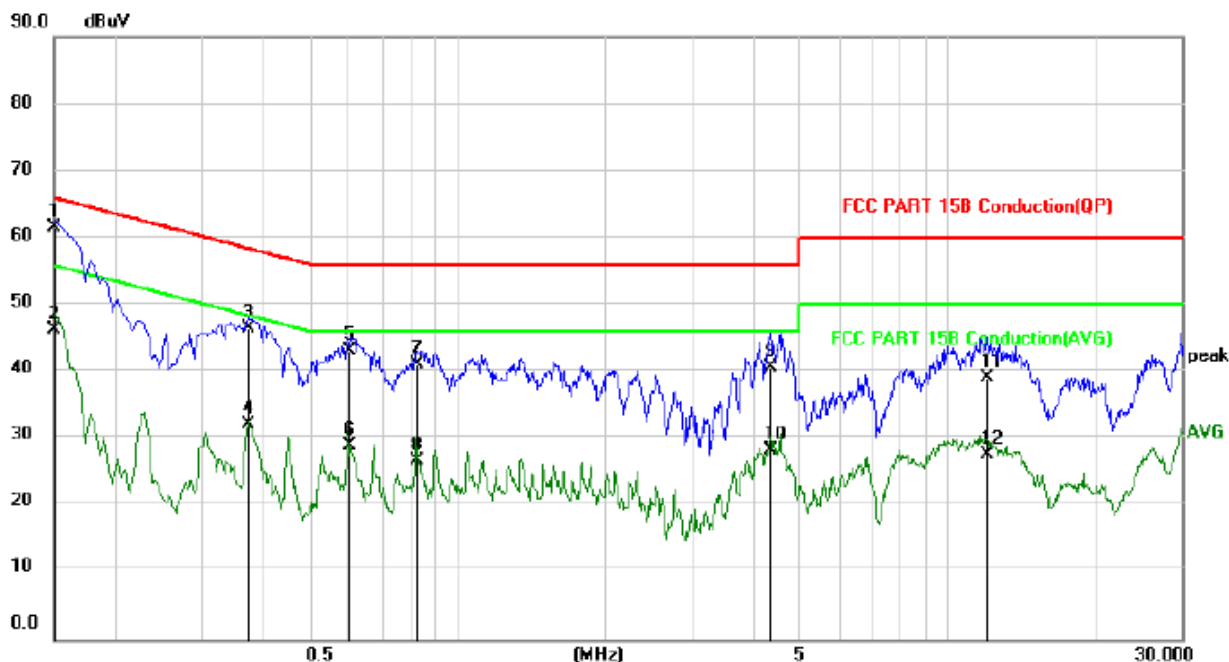
The test result please refer to the next page.

<b>Test Model</b>	MD8040-1-3BD	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	23.9°C, 53% RH	<b>Test Engineer</b>	Jay Li
<b>Pol</b>	Line	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	51.16	10.24	61.40	66.00	-4.60	QP	
2		0.1500	35.46	10.24	45.70	56.00	-10.30	AVG	
3		0.3982	29.86	10.20	40.06	57.89	-17.83	QP	
4		0.3982	11.80	10.20	22.00	47.89	-25.89	AVG	
5		0.6784	30.57	10.20	40.77	56.00	-15.23	QP	
6		0.6784	16.36	10.20	26.56	46.00	-19.44	AVG	
7		0.9033	29.94	10.20	40.14	56.00	-15.86	QP	
8		0.9033	15.69	10.20	25.89	46.00	-20.11	AVG	
9		4.1409	33.24	10.20	43.44	56.00	-12.56	QP	
10		4.1409	19.42	10.20	29.62	46.00	-16.38	AVG	
11		9.5940	31.94	10.20	42.14	60.00	-17.86	QP	
12		9.5940	18.70	10.20	28.90	50.00	-21.10	AVG	

<b>Test Model</b>	MD8040-1-3BD	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	23.9°C, 53% RH	<b>Test Engineer</b>	Jay Li
<b>Pol</b>	Neutral	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	51.26	10.24	61.50	66.00	-4.50	QP	
2		0.1500	35.96	10.24	46.20	56.00	-9.80	AVG	
3		0.3756	36.32	10.20	46.52	58.38	-11.86	QP	
4		0.3756	21.87	10.20	32.07	48.38	-16.31	AVG	
5		0.6020	32.89	10.20	43.09	56.00	-12.91	QP	
6		0.6020	18.69	10.20	28.89	46.00	-17.11	AVG	
7		0.8279	30.75	10.20	40.95	56.00	-15.05	QP	
8		0.8279	16.51	10.20	26.71	46.00	-19.29	AVG	
9		4.3601	30.32	10.20	40.52	56.00	-15.48	QP	
10		4.3601	18.01	10.20	28.21	46.00	-17.79	AVG	
11		12.0573	28.84	10.20	39.04	60.00	-20.96	QP	
12		12.0573	17.31	10.20	27.51	50.00	-22.49	AVG	

Note: Pre-Scan all mode, Thus record worse case mode result in this report.  
Margin=Reading level + Correct - Limit

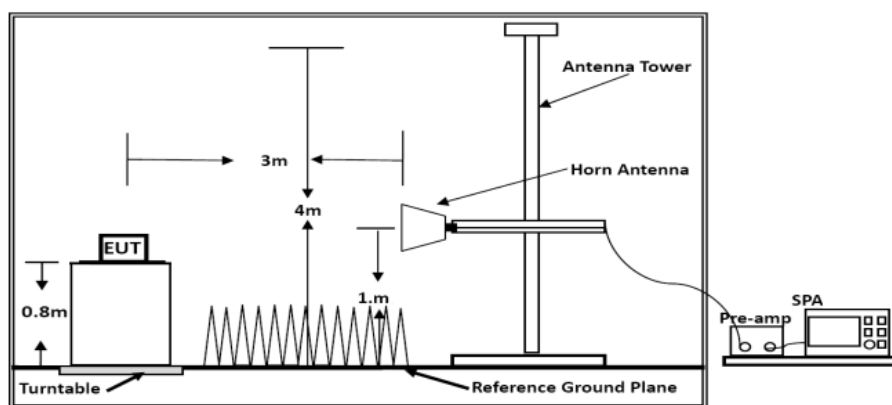
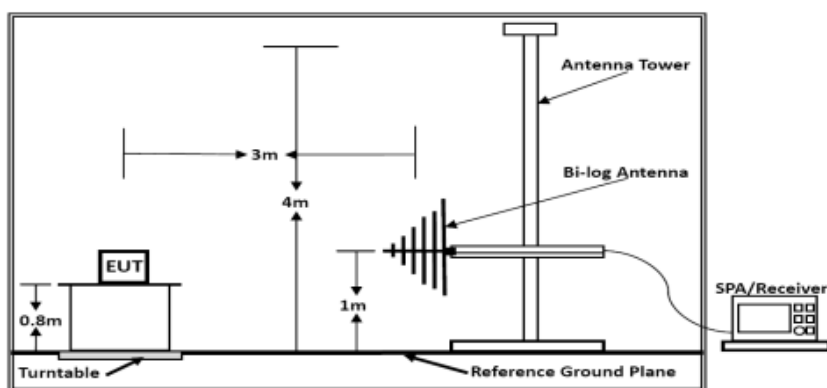
## 3.2. Radiated emission Measurement

### 3.2.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-08-05	2022-08-04
3	Positioning Controller	MF	MF7082	MF78020803	2021-06-22	2022-06-21
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2020-07-26	2022-07-25
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-02	2022-07-01
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-22	2022-06-21
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-22	2021-11-21
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-22	2022-06-21
9	RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-22	2022-06-21
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-22	2022-06-21
11	EMI Test Software	AUDIX	E3	/	N/A	N/A

### 3.2.2. Block Diagram of Test Setup



### 3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ( $\text{dB}\mu\text{V/m}$ )	Average Limit ( $\text{dB}\mu\text{V/m}$ )
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

### 3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Lighting and measure it.

### 3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

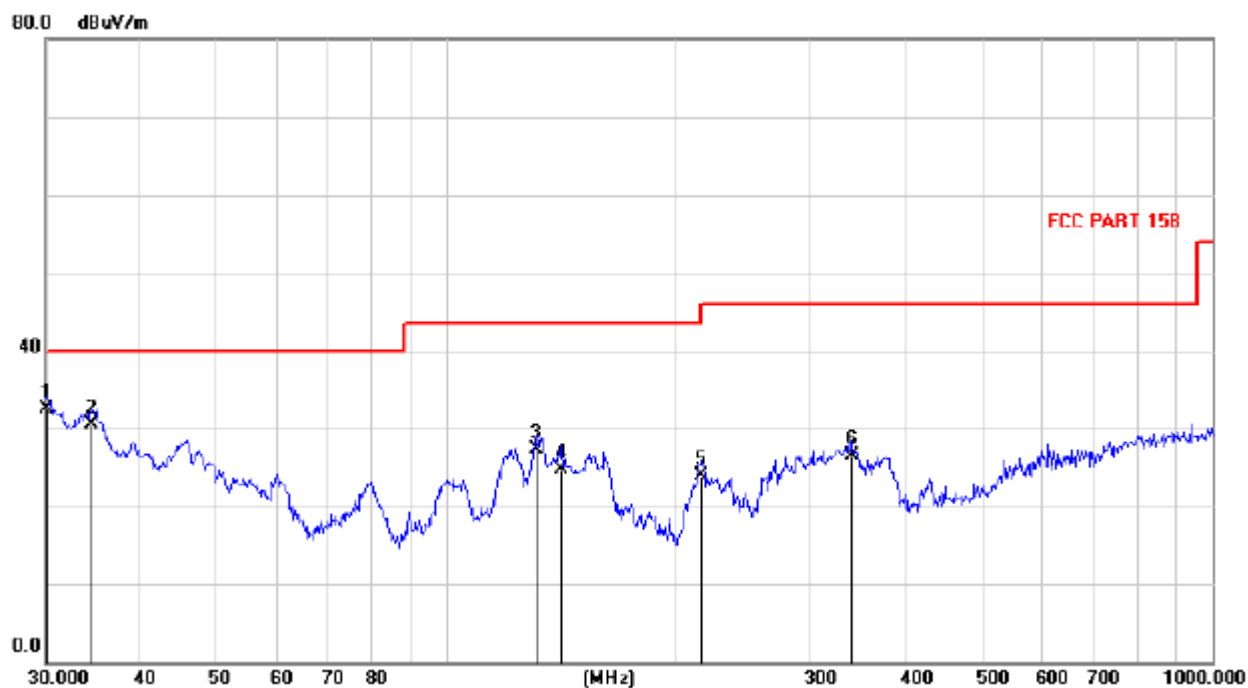
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz.  
The frequency range from 30MHz to 1000MHz is checked.

### 3.2.7. Radiated Emission Noise Measurement Result

**PASS.**

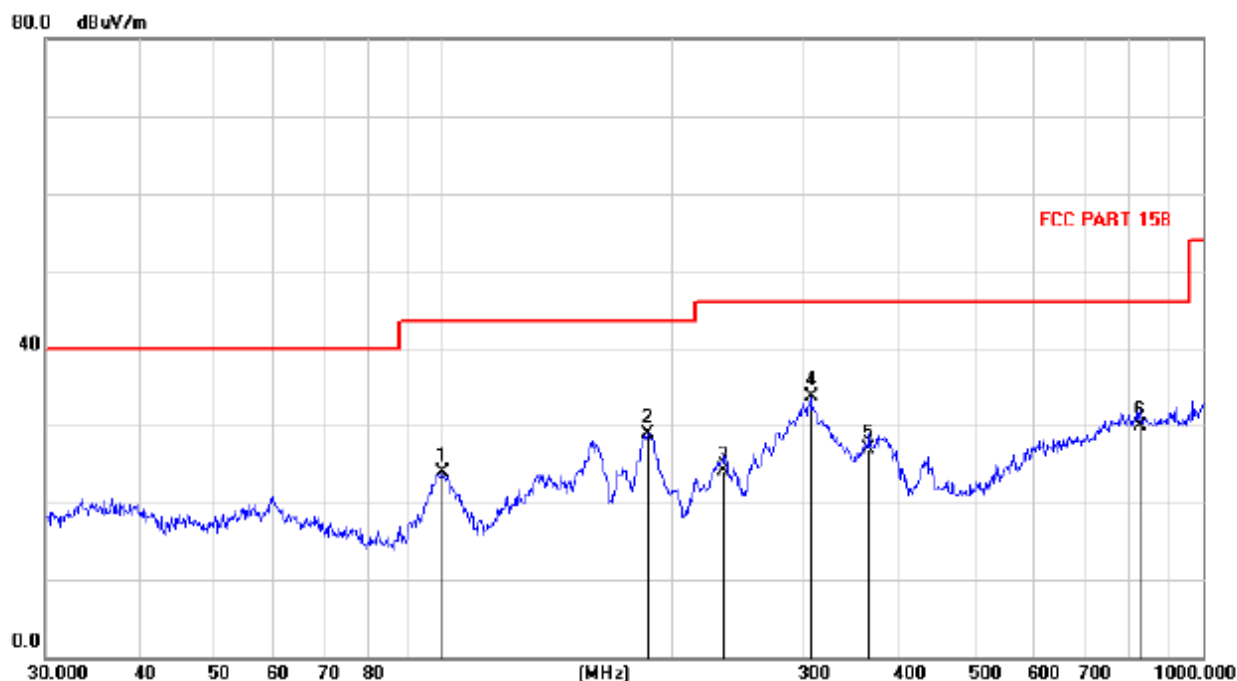
The scanning waveforms please refer to the next page.

<b>Test Model</b>	MD8040-1-3BD	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	22.9°C, 57% RH	<b>Detector Function</b>	Quasi-peak
<b>Pol</b>	Vertical	<b>Distance</b>	3m
<b>Test Engineer</b>	Jay Li	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0922	20.15	12.44	32.59	40.00	-7.41	QP		
2		34.4266	17.03	13.46	30.49	40.00	-9.51	QP		
3		131.2390	14.32	12.93	27.25	43.50	-16.25	QP		
4		141.5777	11.12	13.56	24.68	43.50	-18.82	QP		
5		215.3622	14.29	9.59	23.88	43.50	-19.62	QP		
6		337.5113	12.48	13.95	26.43	46.00	-19.57	QP		

<b>Test Model</b>	MD8040-1-3BD	<b>Test Mode</b>	Lighting
<b>Environmental Conditions</b>	22.9°C, 57% RH	<b>Detector Function</b>	Quasi-peak
<b>Pol</b>	Horizontal	<b>Distance</b>	3m
<b>Test Engineer</b>	Jay Li	<b>Test Voltage</b>	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		99.8777	13.27	10.70	23.97	43.50	-19.53	QP		
2		186.7680	18.63	10.20	28.83	43.50	-14.67	QP		
3		234.2710	13.68	10.47	24.15	46.00	-21.85	QP		
4	*	304.8771	20.74	12.94	33.68	46.00	-12.32	QP		
5		363.7809	12.35	14.63	26.98	46.00	-19.02	QP		
6		824.5968	6.36	23.64	30.00	46.00	-16.00	QP		

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

Margin=Reading level + Factor - Limit



#### **4. TEST SETUP PHOTOGRAPHS OF EUT**

Please refer to separated files for Test Setup Photos of the EUT.

#### **5. EXTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for External Photos of the EUT.

#### **6. INTERIOR PHOTOGRAPHS OF THE EUT**

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----