



FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

Outdoor LED Lamp

Test Model: 36BOL-DS

Additional Model No.: 36BOL-DS-XXXXXX ("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

Prepared by : 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

Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 01, 2022
Number of tested samples : 2
Sample No. : A052622111-1; A052622111-2
Serial number : Prototype
Date of Test : June 01, 2022~ June 17, 2022
Date of Report : June 20, 2022





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

Report Reference No. : LCSA052622111E

Date Of Issue..... : June 20, 2022

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

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..... : Outdoor LED Lamp

Trade Mark..... : ARTIKA

Test Model : 36BOL-DS

Ratings..... : Input: AC 120V, 60Hz, 14.5W

Result : Positive

Compiled by:

Diamond Lu/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



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**FCC SDOC-- TEST REPORT**

Test Report No. :	LCSA052622111E	<u>June 20, 2022</u> Date of issue
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Test Model : 36BOL-DS

EUT..... : Outdoor LED Lamp

Applicant..... : ARTIKA FOR LIVING INC.

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

Telephone..... : /

Fax..... : /

Manufacturer..... : XIANG XING LIGHTING CO.,LTD

Address..... : 3# LINYUE INDUSTRIAL, PINGZHOU, NAN HAI
DISTRICT, FOSHAN CITY GUANG DONG, CHINA

Telephone..... : /

Fax..... : /

Factory..... : XIANG XING LIGHTING CO.,LTD

Address..... : 3# LINYUE INDUSTRIAL, PINGZHOU, NAN HAI
DISTRICT, FOSHAN CITY GUANG DONG, 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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	June 20, 2022	Initial Issue	--





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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 1	Lighting	Record
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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Outdoor LED Lamp

Trade Mark : ARTIKA

Test Model : 36BOL-DS

Additional Model No. : 36BOL-DS-XXXXXX ("XXXXXX" 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 : Input: AC 120V, 60Hz, 14.5W

Highest internal frequency (Fx) : $F_x \leq 108 \text{ MHz}$

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, F_x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.
Where F_x is unknown, the radiated emission measurements shall be performed up to 6 GHz.





2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
--	--	--

2.4. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.



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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 (Ulab)	Expanded Uncertainty (Ucisp)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 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

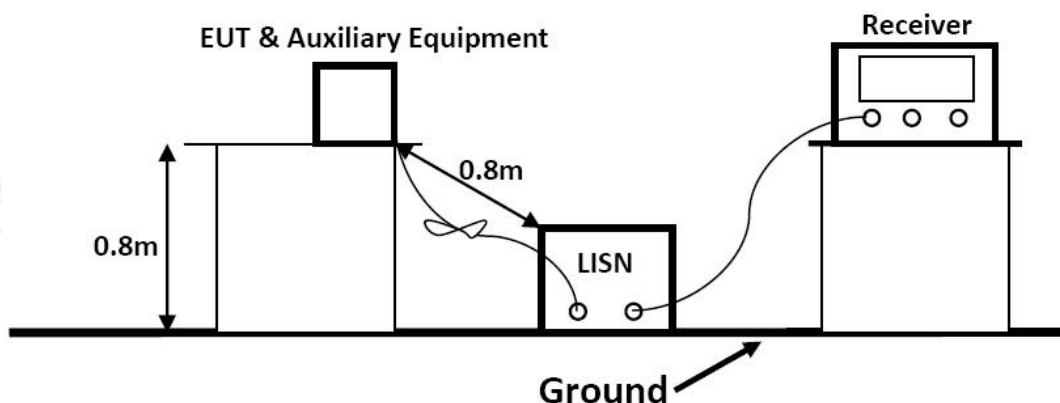
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2022-02-16	2023-02-15
3	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-11-16	2022-11-15

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ 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 Mode 1 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.



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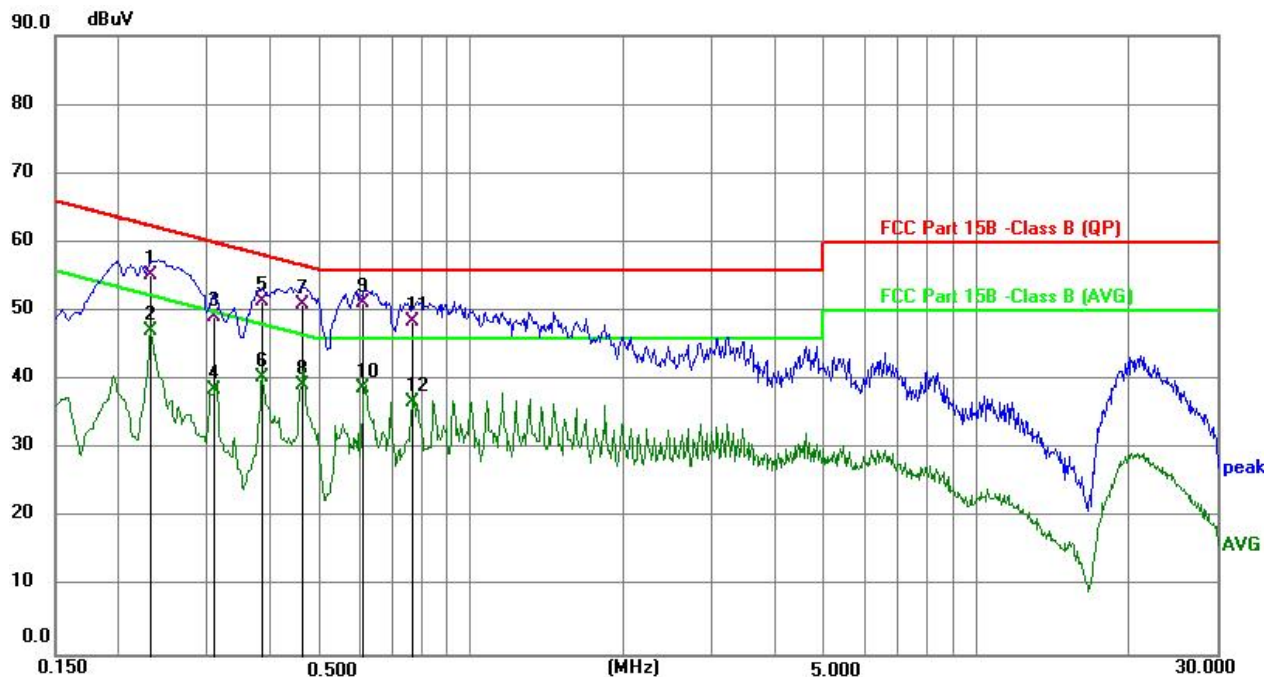
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Test Model	36BOL-DS	Test Mode	Mode 1
Environmental Conditions	23.3°C, 52% RH	Test Engineer	Monkey Li
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2310	45.00	10.22	55.22	62.41	-7.19	QP
2		0.2310	36.97	10.22	47.19	52.41	-5.22	AVG
3		0.3100	38.96	10.20	49.16	59.97	-10.81	QP
4		0.3100	28.36	10.20	38.56	49.97	-11.41	AVG
5		0.3840	41.16	10.20	51.36	58.19	-6.83	QP
6		0.3840	30.28	10.20	40.48	48.19	-7.71	AVG
7		0.4636	40.85	10.20	51.05	56.63	-5.58	QP
8		0.4636	28.99	10.20	39.19	46.63	-7.44	AVG
9	*	0.6134	40.93	10.20	51.13	56.00	-4.87	QP
10		0.6134	28.67	10.20	38.87	46.00	-7.13	AVG
11		0.7669	38.25	10.20	48.45	56.00	-7.55	QP
12		0.7669	26.70	10.20	36.90	46.00	-9.10	AVG



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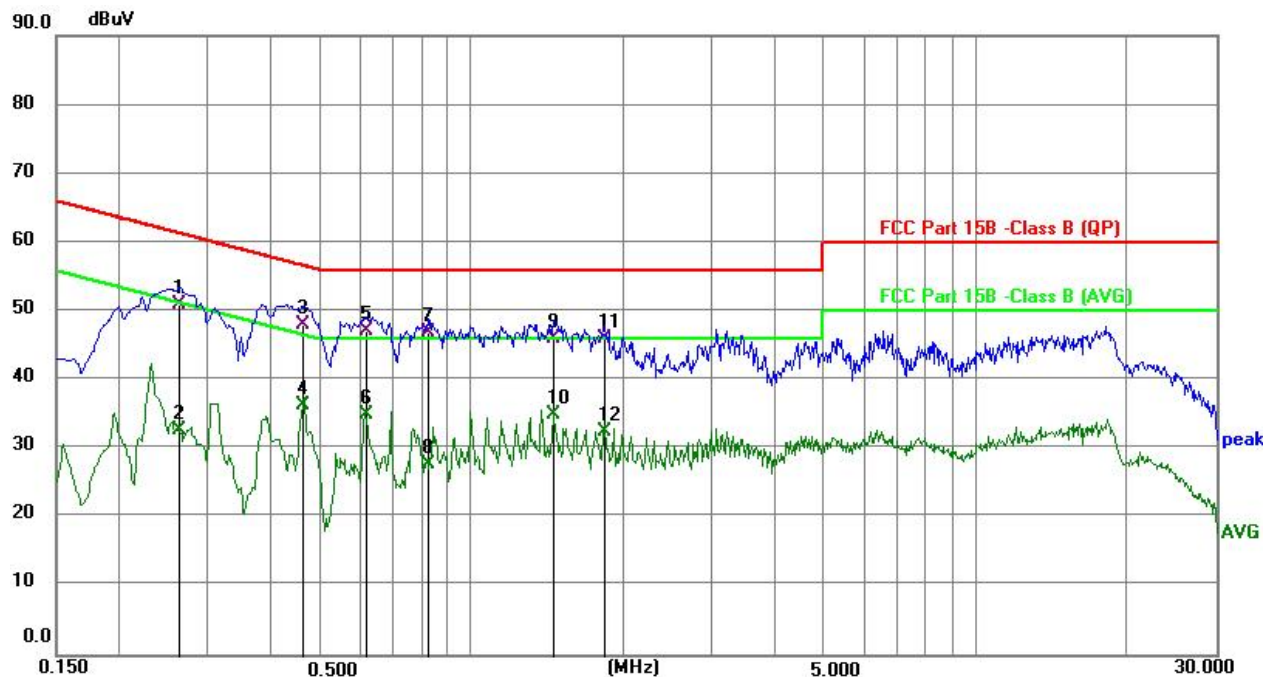
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Test Model	36BOL-DS	Test Mode	Mode 1
Environmental Conditions	23.3°C, 52% RH	Test Engineer	Monkey Li
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2625	40.81	10.21	51.02	61.35	-10.33	QP
2		0.2625	22.60	10.21	32.81	51.35	-18.54	AVG
3	*	0.4605	37.89	10.20	48.09	56.68	-8.59	QP
4		0.4605	26.14	10.20	36.34	46.68	-10.34	AVG
5		0.6180	37.02	10.20	47.22	56.00	-8.78	QP
6		0.6180	24.71	10.20	34.91	46.00	-11.09	AVG
7		0.8250	36.69	10.20	46.89	56.00	-9.11	QP
8		0.8250	17.50	10.20	27.70	46.00	-18.30	AVG
9		1.4550	35.85	10.20	46.05	56.00	-9.95	QP
10		1.4550	24.75	10.20	34.95	46.00	-11.05	AVG
11		1.8373	35.92	10.20	46.12	56.00	-9.88	QP
12		1.8373	22.27	10.20	32.47	46.00	-13.53	AVG

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

Note: Measured = Reading Level + Correct Factor, Over = Measured - Limit



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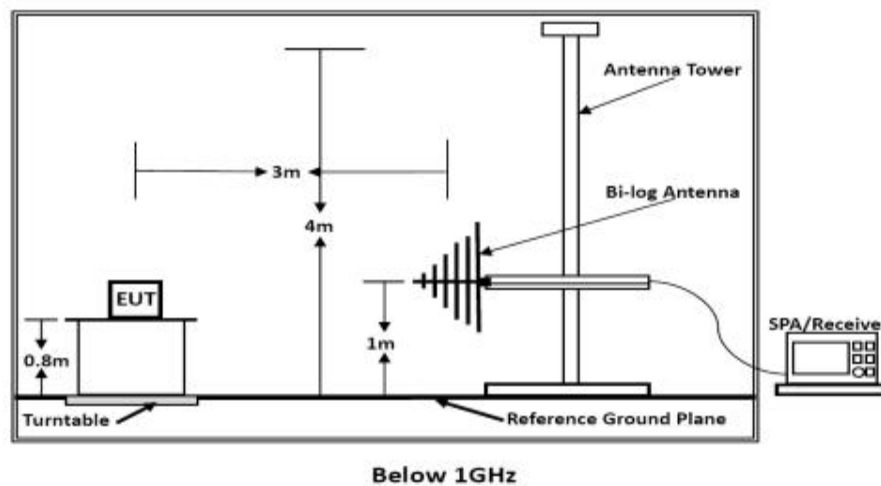
3.2. Radiated emission Measurement

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	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
3	Positioning Controller	MF	MF7082	MF78020803	2021-06-21	2022-06-20
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25	2024-07-24
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-01	2024-06-30
6	EMI Test Receiver	R&S	ESR7	102311	2021-08-19	2022-08-18
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-21	2022-06-20

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 Mode 1 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.

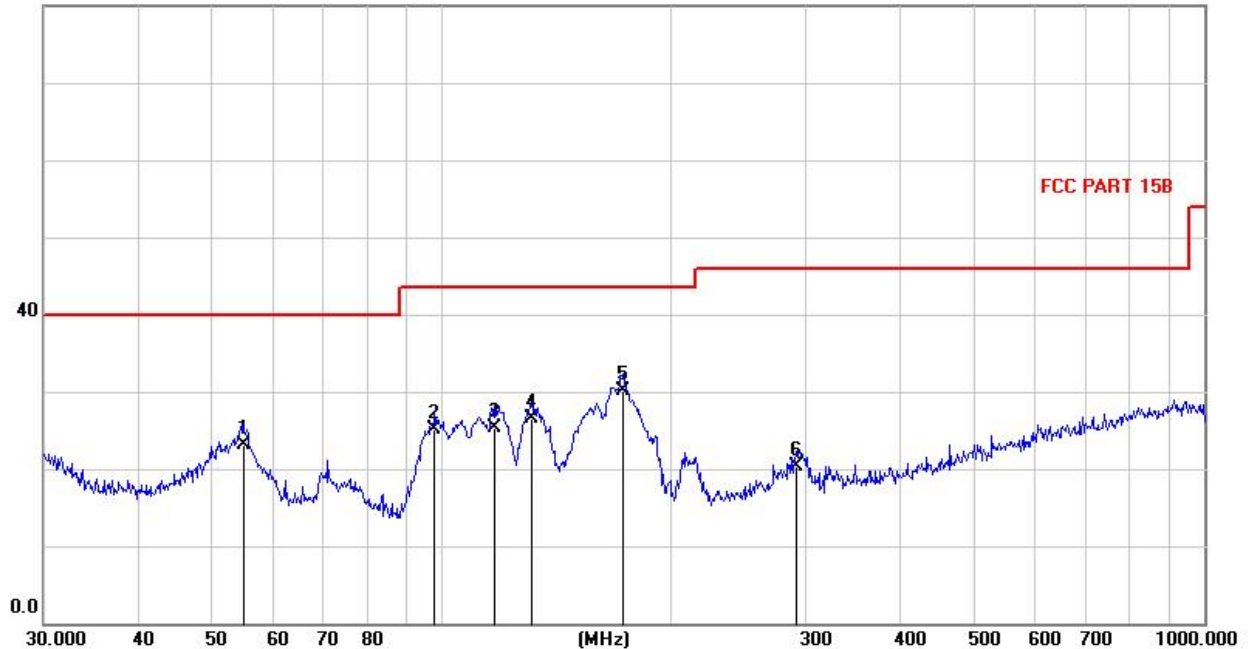
The scanning waveforms please refer to the next page.





Test Model	36BOL-DS	Test Mode	Mode 1
Environmental Conditions	22.3°C, 55% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Monkey Li	Test Voltage	AC 120V/60Hz

80.0 dBuV/m



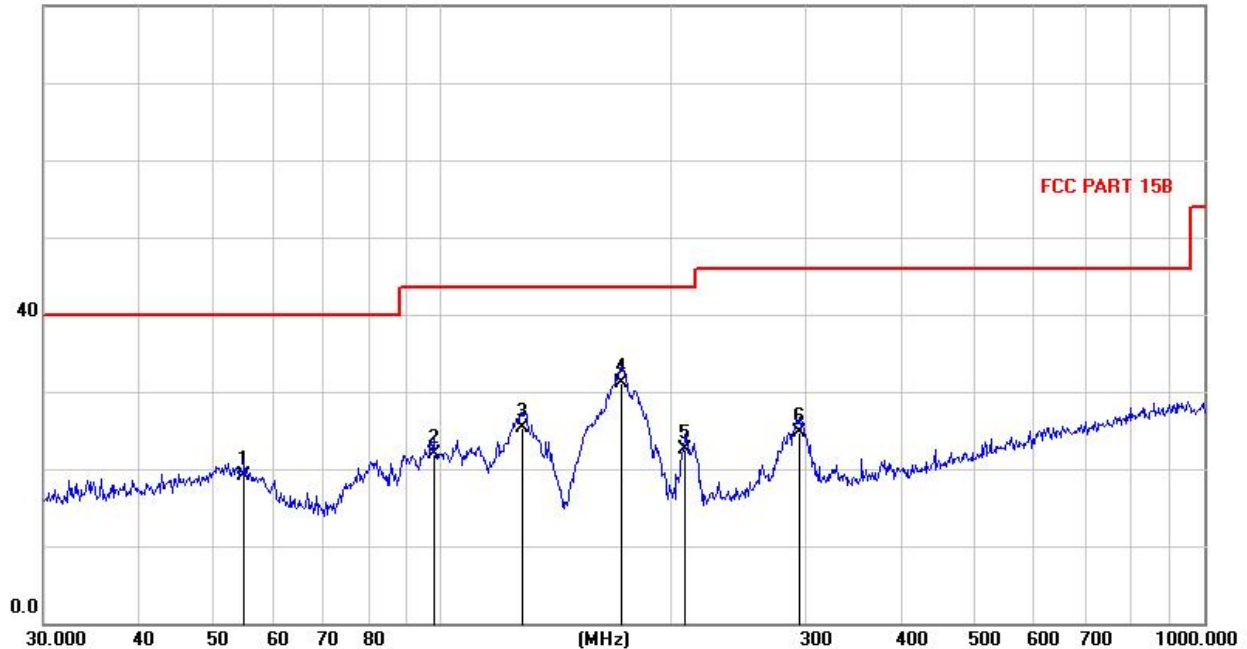
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		54.8589	10.64	12.54	23.18	40.00	-16.82	QP
2		97.7983	14.71	10.45	25.16	43.50	-18.34	QP
3		117.4117	13.95	11.32	25.27	43.50	-18.23	QP
4		131.1815	15.52	10.92	26.44	43.50	-17.06	QP
5	*	172.6745	18.72	11.30	30.02	43.50	-13.48	QP
6		292.0583	7.76	12.54	20.30	46.00	-25.70	QP





Test Model	36BOL-DS	Test Mode	Mode 1
Environmental Conditions	22.3°C, 55% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Monkey Li	Test Voltage	AC 120V/60Hz

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		55.1240	5.79	13.32	19.11	40.00	-20.89	QP
2		97.5841	10.73	11.27	22.00	43.50	-21.50	QP
3		128.0568	15.82	9.47	25.29	43.50	-18.21	QP
4	*	171.9946	20.54	10.49	31.03	43.50	-12.47	QP
5		209.2211	10.46	11.97	22.43	43.50	-21.07	QP
6		294.5007	11.72	12.90	24.62	46.00	-21.38	QP

Note: 1. Pre-Scan all mode, Thus record worse case mode result in this report.

Note: Measured = Reading Level + Correct Factor, Margin = Measured - Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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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-----

