

**FCC TEST REPORT**

For

**ARTIKA FOR LIVING INC****Radius FM retail Black 3CCT****Test Model: FM-RDC-BL**

Additional Model No.:FM-RDC-XXXXXXXXXX("XXXXXXXXXX" 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.  
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Date of receipt of test sample : January 03, 2025  
Number of tested samples : 1  
Serial number : Prototype  
Sample No. : B241225037001  
Date of Test : January 03, 2025 to January 14, 2025  
Date of Report : January 15, 2025



**TEST REPORT****Report No.** : LCSA12164358E**Date of Issue** : January 15, 2025**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  
ANSI C63.4-2014**Test Report Form No.** : TRF-4-E-010 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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**Test Item Description** : Radius FM retail Black 3CCT**Trade Mark** : ARTIKA**Test Model** : FM-RDC-BL**Result** : Positive**Compiled by:**

Emma wang / File Administrator

**Supervised by:**

Cary Luo/ Technique principal

**Approved by:**

Gavin Liang / Manager



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Scan code to check authenticity



## TEST REPORT

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| <b>Test Report No.:</b> <b>LCSA12164358E</b> | <u>January 15, 2025</u><br>Date of issue |
|----------------------------------------------|------------------------------------------|

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| <b>Test Model</b> .....   | <b>: FM-RDC-BL</b>                                        |
| <b>EUT</b> .....          | <b>: Radius FM retail Black 3CCT</b>                      |
| <b>Applicant</b> .....    | <b>: ARTIKA FOR LIVING INC</b>                            |
| <b>Address</b> .....      | <b>: 1756 50th avenue, Lachine, Qc, Canada H8T 2V5</b>    |
| <b>Telephone</b> .....    | <b>: /</b>                                                |
| <b>Fax</b> .....          | <b>: /</b>                                                |
| <b>Manufacturer</b> ..... | <b>: DONGGUAN CITY RISING STARS LIGHTING CO.,LTD</b>      |
| <b>Address</b> .....      | <b>: YUANQUAN ROAD, NO.6, BAIHAO VILLAGE, HOUJIE TOWN</b> |
| <b>Telephone</b> .....    | <b>: /</b>                                                |
| <b>Fax</b> .....          | <b>: /</b>                                                |
| <b>Factory</b> .....      | <b>: DONGGUAN CITY RISING STARS LIGHTING CO.,LTD</b>      |
| <b>Address</b> .....      | <b>: YUANQUAN ROAD, NO.6, BAIHAO VILLAGE, HOUJIE TOWN</b> |
| <b>Telephone</b> .....    | <b>: /</b>                                                |
| <b>Fax</b> .....          | <b>: /</b>                                                |

|                    |                 |
|--------------------|-----------------|
| <b>Test Result</b> | <b>Positive</b> |
|--------------------|-----------------|

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

| Report Version | Issue Date       | Revision Content | Revised By |
|----------------|------------------|------------------|------------|
| 000            | January 15, 2025 | 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.

| Description of Test Item        | Standard                                         | Limits          | Result |
|---------------------------------|--------------------------------------------------|-----------------|--------|
| Conducted emissions on AC mains | FCC 47 CFR Part 15, Subpart B<br>ANSI C63.4-2014 | 15.107, Class B | Pass   |
| Radiated emissions (Below 1GHz) | FCC 47 CFR Part 15, Subpart B<br>ANSI C63.4-2014 | 15.109, Class B | Pass   |





## 1.2 Description of Test Modes

| No  | Title                 | Description |
|-----|-----------------------|-------------|
| TM1 | Working(AC 120V/60Hz) | Record      |





## 2. GENERAL INFORMATION

### 2.1 Description of Device (EUT)

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| EUT                         | : Radius FM retail Black 3CCT                                                                            |
| Test Model                  | : FM-RDC-BL                                                                                              |
| Additional Model No.        | : FM-RDC-XXXXXXXXXX("XXXXXXXXXX" 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                | : 120V~ 60Hz 15.5W                                                                                       |
| Highest Internal Frequency  | : 1.705-108MHz                                                                                           |
| Classification of Equipment | : Class B                                                                                                |

| Highest internal frequency (Fx)            | Highest measured frequency      |
|--------------------------------------------|---------------------------------|
| $F_x \leq 1.705\text{MHz}$                 | 30MHz                           |
| $1.705\text{MHz} < F_x \leq 108\text{MHz}$ | 1GHz                            |
| $108\text{MHz} < F_x \leq 500\text{MHz}$   | 2GHz                            |
| $500\text{MHz} < F_x \leq 1000\text{MHz}$  | 5GHz                            |
| $F_x > 1\text{GHz}$                        | 5 x Fx up to a maximum of 40GHz |

### 2.2 Support equipment List

The EUT was tested as an independent device.

### 2.3 Description of Test Facility

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.

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.

### 2.4 Measurement Uncertainty

| Test Item                                                                                                                                     | Measurement Uncertainty |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Conducted Emission (150kHz to 30MHz)                                                                                                          | $\pm 2.35\text{ dB}$    |
| Radiated Emission (30MHz to 1000MHz)                                                                                                          | $\pm 3.48\text{ dB}$    |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                         |





### 3. MEASURING DEVICES AND TEST EQUIPMENT

#### Conducted emissions on AC mains

| Equipment         | Manufacturer | Model No | Serial No. | Cal Date   | Due Date   |
|-------------------|--------------|----------|------------|------------|------------|
| EMI Test Software | Farad        | EZ       | /          | /          | /          |
| Artificial Mains  | R&S          | ENV216   | 101288     | 2024-06-06 | 2025-06-05 |
| Pulse Limiter     | R&S          | ESH3-Z2  | 102750-NB  | 2024-06-06 | 2025-06-05 |
| EMI Test Receiver | R&S          | ESR3     | 102312     | 2024-03-12 | 2025-03-11 |

#### Radiated emissions (Below 1GHz) (Above 1GHz)

| Equipment              | Manufacturer | Model No  | Serial No. | Cal Date   | Due Date   |
|------------------------|--------------|-----------|------------|------------|------------|
| EMI Test Software      | AUDIX        | E3        | /          | N/A        | N/A        |
| By-log Antenna         | SCHWARZBECK  | VULB9163  | 01143      | 2024-07-20 | 2027-07-19 |
| Horn Antenna           | SCHWARZBECK  | 3115      | EABF-018   | 2024-07-20 | 2027-07-19 |
| EMI Test Receiver      | R&S          | ESR3      | 102311     | 2024-06-06 | 2025-06-05 |
| Broadband Preamplifier | /            | BP-01M18G | P190501    | 2024-06-06 | 2025-06-05 |
| EMI Test Receiver      | R&S          | ESCI7     | 101173     | 2024-10-06 | 2025-10-07 |
| By-log Antenna         | SchwarzZBECK | VULB9163  | 01565      | 2024-07-13 | 2027-07-12 |
| EMI Test Software      | Farad        | EZ        | /          | N/A        | N/A        |





## 4. EMISSION TEST RESULTS (EMI)

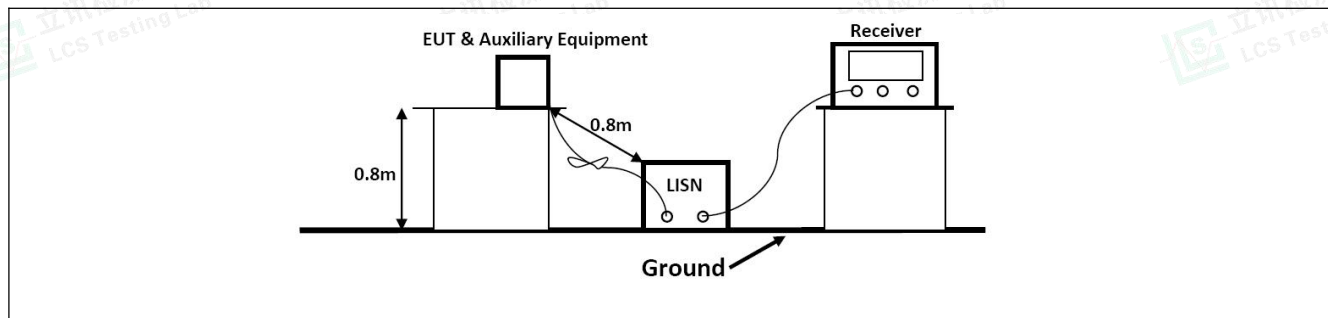
### 4.1 Conducted emissions on AC mains

|                   |                                                                                                                                                                                                                             |                        |           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| Test Requirement: | 15.107, Class B                                                                                                                                                                                                             |                        |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                 | Conducted limit (dBμV) |           |
|                   |                                                                                                                                                                                                                             | Quasi-peak             | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                    | 66 to 56*              | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                       | 56                     | 46        |
|                   | 5-30                                                                                                                                                                                                                        | 60                     | 50        |
|                   | *Decreases with the logarithm of the frequency.                                                                                                                                                                             |                        |           |
| Test Method:      | ANSI C63.4-2014                                                                                                                                                                                                             |                        |           |
| Procedure:        | An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.<br>Remark: Level= Read Level+ Cable Loss+ LISN Factor |                        |           |

#### 4.1.1 E.U.T. Operation:

|                        |         |           |        |
|------------------------|---------|-----------|--------|
| Operating Environment: |         |           |        |
| Temperature:           | 24.4 °C | Humidity: | 53.0 % |
| Pre test mode:         | TM1     |           |        |
| Final test mode:       | TM1     |           |        |

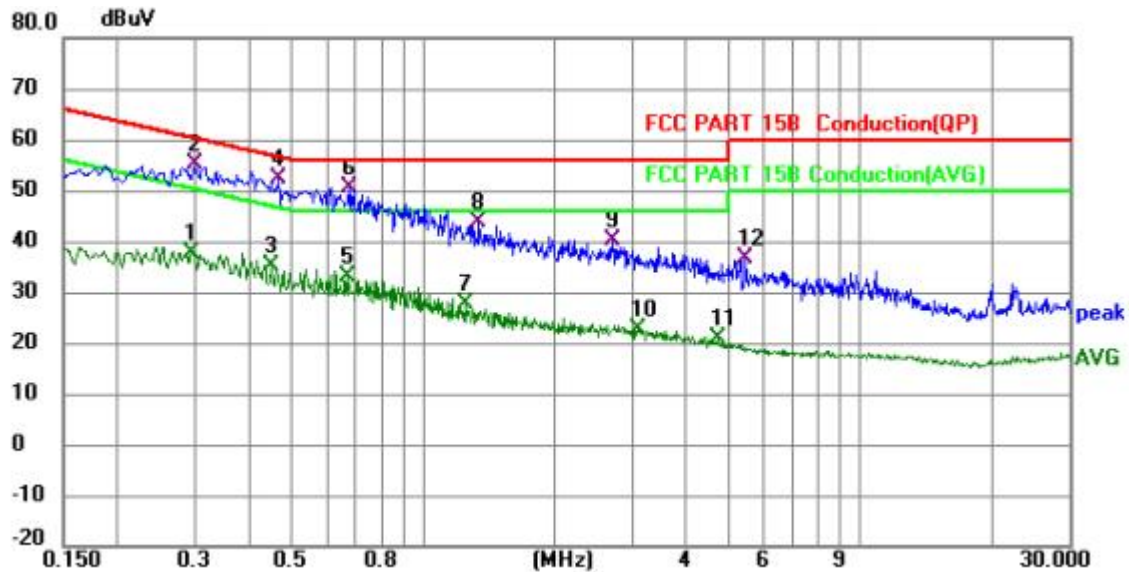
#### 4.1.2 Test Setup Diagram:





## 4.1.3 Test Data:

TM1 / Line: Line

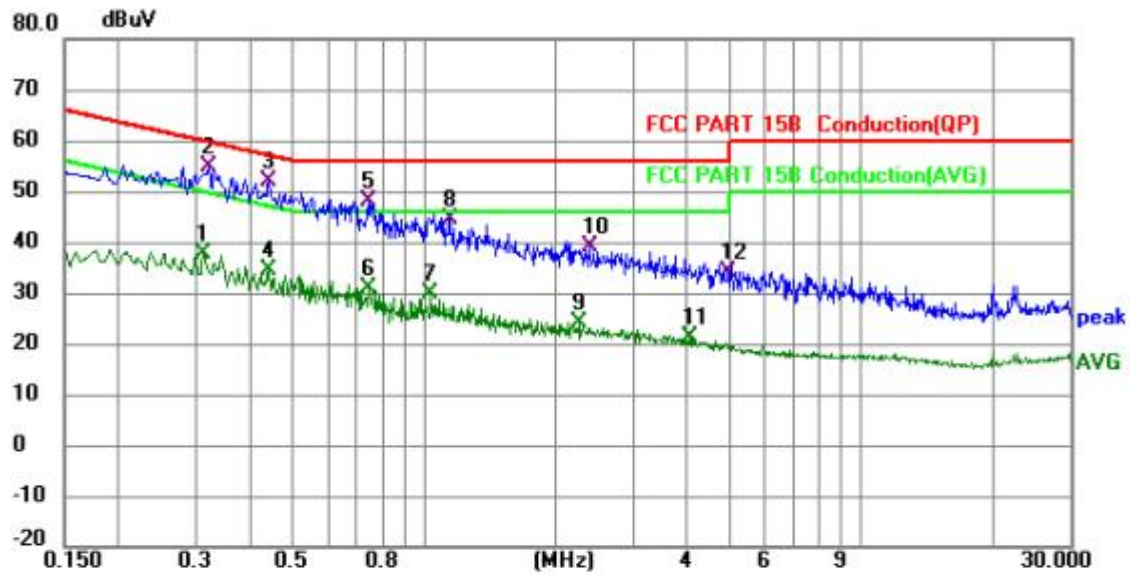


| No. Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|---------|-------|---------------|----------------|-------------|-------|--------|----------|---------|
|         | MHz   | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1       | 0.294 | 17.86         | 19.75          | 37.61       | 50.41 | -12.80 | AVG      |         |
| 2       | 0.298 | 35.38         | 19.75          | 55.13       | 60.30 | -5.17  | QP       |         |
| 3       | 0.447 | 15.45         | 19.87          | 35.32       | 46.93 | -11.61 | AVG      |         |
| 4 *     | 0.465 | 32.55         | 19.88          | 52.43       | 56.60 | -4.17  | QP       |         |
| 5       | 0.672 | 13.10         | 19.90          | 33.00       | 46.00 | -13.00 | AVG      |         |
| 6       | 0.681 | 30.66         | 19.90          | 50.56       | 56.00 | -5.44  | QP       |         |
| 7       | 1.248 | 7.71          | 19.89          | 27.60       | 46.00 | -18.40 | AVG      |         |
| 8       | 1.343 | 23.92         | 19.87          | 43.79       | 56.00 | -12.21 | QP       |         |
| 9       | 2.715 | 20.29         | 19.80          | 40.09       | 56.00 | -15.91 | QP       |         |
| 10      | 3.115 | 2.93          | 19.82          | 22.75       | 46.00 | -23.25 | AVG      |         |
| 11      | 4.708 | 1.15          | 19.70          | 20.85       | 46.00 | -25.15 | AVG      |         |
| 12      | 5.465 | 17.18         | 19.54          | 36.72       | 60.00 | -23.28 | QP       |         |





TM1 / Line: Neutral



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|-------|---------|---------|----------|-------|--------|----------|---------|
|     |     | MHz   | dBuV    | Factor  | ment     | dBuV  | dB     |          |         |
| 1   |     | 0.312 | 18.07   | 19.77   | 37.84    | 49.92 | -12.08 | AVG      |         |
| 2   | *   | 0.321 | 34.87   | 19.78   | 54.65    | 59.68 | -5.03  | QP       |         |
| 3   |     | 0.438 | 31.93   | 19.87   | 51.80    | 57.10 | -5.30  | QP       |         |
| 4   |     | 0.438 | 14.68   | 19.87   | 34.55    | 47.10 | -12.55 | AVG      |         |
| 5   |     | 0.744 | 28.20   | 19.90   | 48.10    | 56.00 | -7.90  | QP       |         |
| 6   |     | 0.744 | 11.03   | 19.90   | 30.93    | 46.00 | -15.07 | AVG      |         |
| 7   |     | 1.032 | 10.05   | 19.92   | 29.97    | 46.00 | -16.03 | AVG      |         |
| 8   |     | 1.145 | 24.61   | 19.91   | 44.52    | 56.00 | -11.48 | QP       |         |
| 9   |     | 2.260 | 4.49    | 19.78   | 24.27    | 46.00 | -21.73 | AVG      |         |
| 10  |     | 2.396 | 19.30   | 19.80   | 39.10    | 56.00 | -16.90 | QP       |         |
| 11  |     | 4.047 | 1.16    | 19.95   | 21.11    | 46.00 | -24.89 | AVG      |         |
| 12  |     | 4.956 | 14.39   | 19.75   | 34.14    | 56.00 | -21.86 | QP       |         |

\*\*\*Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor-Limit

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limitter





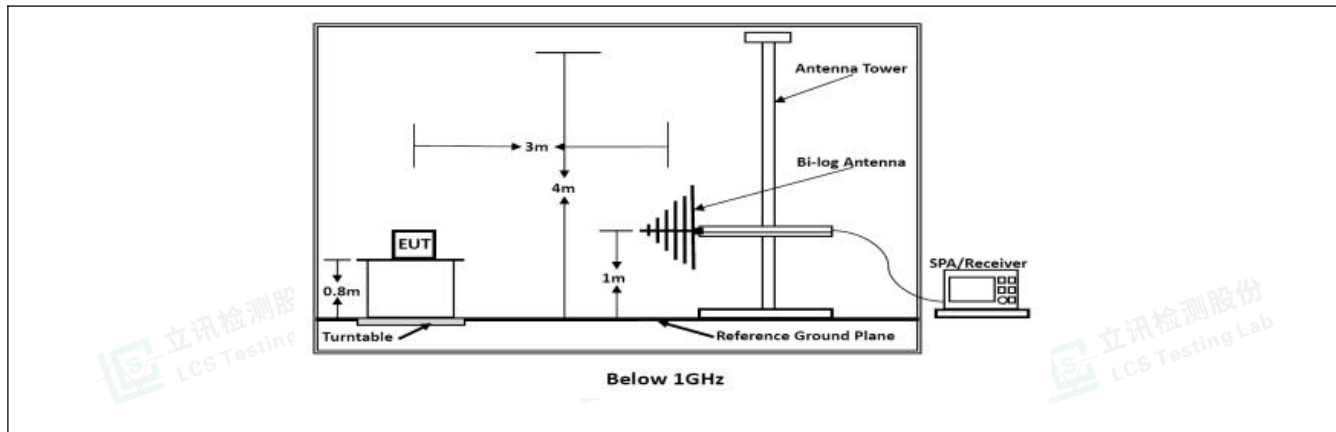
## 4.2 Radiated emissions (Below 1GHz)

|                   |                                                                                                                                                                                                                                                                                                                            |                    |          |                     |          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|---------------------|----------|
| Test Requirement: | 15.109, Class B                                                                                                                                                                                                                                                                                                            |                    |          |                     |          |
| Test Limit:       | Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:                                                                                                                                                 |                    |          |                     |          |
|                   | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                | Field strength @3m |          | Field strength @10m |          |
|                   |                                                                                                                                                                                                                                                                                                                            | (uV/m)             | (dBuV/m) | (uV/m)              | (dBuV/m) |
|                   | 30 – 88                                                                                                                                                                                                                                                                                                                    | 100                | 40       | 30                  | 29.5     |
|                   | 88 – 216                                                                                                                                                                                                                                                                                                                   | 150                | 43.5     | 45                  | 33.1     |
|                   | 216 – 960                                                                                                                                                                                                                                                                                                                  | 200                | 46       | 60                  | 35.6     |
|                   | Above 960                                                                                                                                                                                                                                                                                                                  | 500                | 54       | 150                 | 43.5     |
| Test Method:      | ANSI C63.4-2014                                                                                                                                                                                                                                                                                                            |                    |          |                     |          |
| Procedure:        | An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.<br>Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor |                    |          |                     |          |

### 4.2.1 E.U.T. Operation:

|                        |         |           |        |
|------------------------|---------|-----------|--------|
| Operating Environment: |         |           |        |
| Temperature:           | 26.4 °C | Humidity: | 54.2 % |
| Pre test mode:         | TM1     |           |        |
| Final test mode:       | TM1     |           |        |

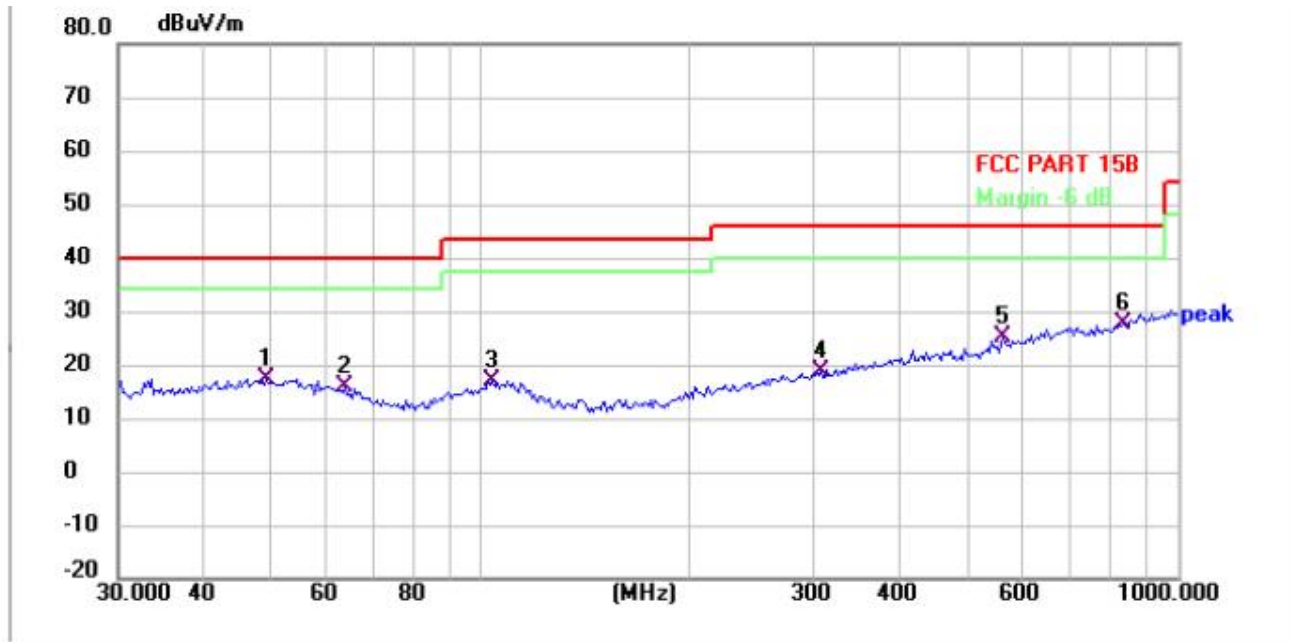
### 4.2.2 Test Setup Diagram:





## 4.2.3 Test Data:

TM1 / Polarization: Horizontal

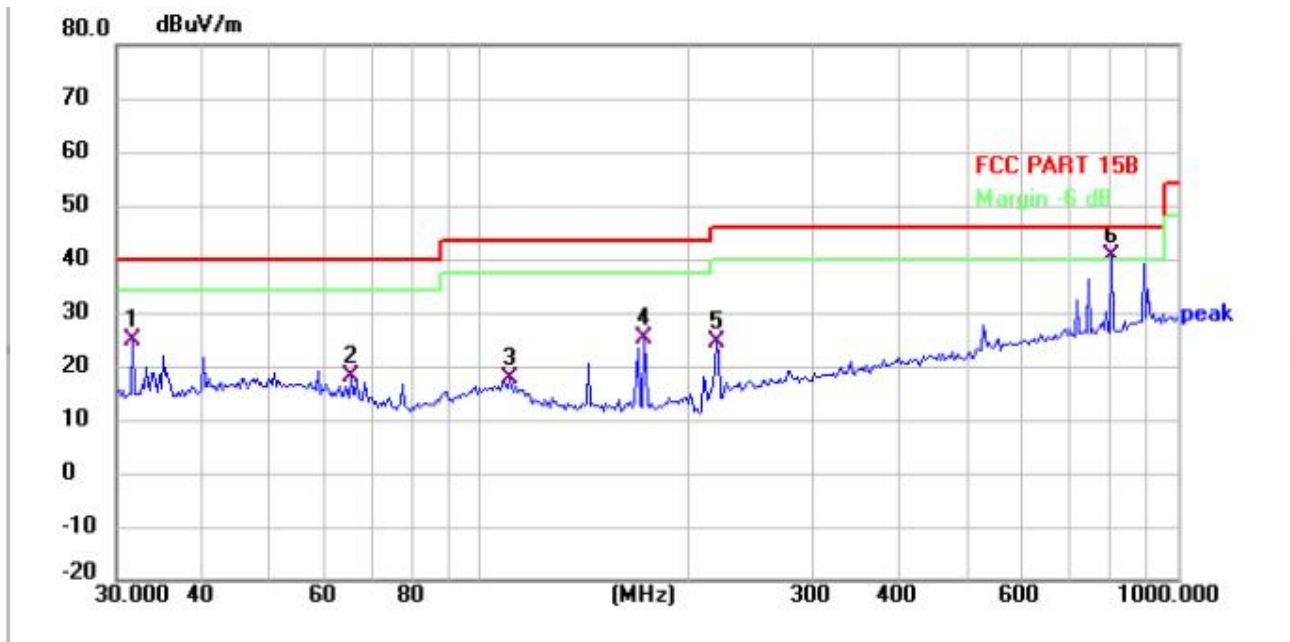


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 49.063          | 28.25          | -10.92        | 17.33          | 40.00          | -22.67      | QP       | P   |        |
| 2   | 63.631          | 28.72          | -12.99        | 15.73          | 40.00          | -24.27      | QP       | P   |        |
| 3   | 103.335         | 28.82          | -11.80        | 17.02          | 43.50          | -26.48      | QP       | P   |        |
| 4   | 307.105         | 29.06          | -10.15        | 18.91          | 46.00          | -27.09      | QP       | P   |        |
| 5   | 562.014         | 30.99          | -5.75         | 25.24          | 46.00          | -20.76      | QP       | P   |        |
| 6 * | 833.013         | 30.10          | -2.53         | 27.57          | 46.00          | -18.43      | QP       | P   |        |





TM1 / Polarization: Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 31.735          | 37.22          | -12.48        | 24.74          | 40.00          | -15.26      | QP       | P   |        |
| 2   | 64.987          | 31.50          | -13.33        | 18.17          | 40.00          | -21.83      | QP       | P   |        |
| 3   | 110.082         | 28.89          | -11.29        | 17.60          | 43.50          | -25.90      | QP       | P   |        |
| 4   | 171.389         | 40.16          | -15.07        | 25.09          | 43.50          | -18.41      | QP       | P   |        |
| 5   | 217.644         | 37.23          | -12.68        | 24.55          | 46.00          | -21.45      | QP       | P   |        |
| 6 * | 804.252         | 43.52          | -3.15         | 40.37          | 46.00          | -5.63       | QP       | P   |        |

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

2) Margin= Reading level + Correct factor – Limit

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





## 5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSA12164358E.docx

## 6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA12164358E.docx

--- End of Report ---



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