FCC PART 15.249 TEST REPORT

On Behalf of

LEDVANCE LLC

200 Ballardvale Street Wilmington, MA 01887

FCC ID: 2AKGT-63870

Model: UDL2155/R4/500DM/MERGE/92750LED/REM/5WY-WT,

63870, 63870X, LEDMD4500ST9SC3WH

February 27, 2024

This Report Concerns: **Equipment Type:** ○ Original Report LED MICRODISK 4" **Test Engineer:** LBi Li / QCT24BR-1266E-01 Report Number: Test Date: February 21~23, 2024 Gordon Tan/ (widin Tan Reviewed By: Kendy Wang / Cur Us Approved By: Shenzhen QC Testing Laboratory Co., Ltd. Prepared By: East of 1/F., Building E, Xinghong Science Park, No.111, Shuiku Road, Fenghuanggang, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23008269 Fax: 0755-23726780

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Revision History of This Test Report

| Report Number | Description | Issued Date |
|--|--|--|
| QCT24BR-1266E-01 | Initial Issue | 2024-2-27 |
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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

| EUT Description | LED MICRODISK 4" |
|----------------------|--|
| Model No. | UDL2155/R4/500DM/MERGE/92750LED/REM/5WY-WT, 63870, 63870X, LEDMD4500ST9SC3WH |
| Tested Model | UDL2155/R4/500DM/MERGE/92750LED/REM/5WY-WT |
| Sample(s) Status | Engineer sample |
| Operation Frequency: | 2402MHz |
| Channel numbers: | 1 CONTROL OF THE STATE OF THE S |
| Modulation type: | GFSK |
| Antenna Type: | PCB Antenna |
| Antenna gain*1: | -4.5dBi |
| Power supply: | AC 120V/60Hz |
| Trade Mark: | Ledvance, Sylvania, Patriot |
| Applicant | LEDVANCE LLC |
| Address | 200 Ballardvale Street Wilmington, MA 01887 |
| Manufacturer | LEDVANCE LLC A COMPANY OF THE ARM AND A COMPAN |
| Address | 200 Ballardvale Street Wilmington, MA 01887 |
| Sample No. | Y24B1266E01WC |

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.

1.2 System Test Configuration

1.2.1 Support Equipment

1.2.2 Test mode and voltage

Transmitting mode: Keep the EUT in continuously transmitting.

Test voltage: AC 120V/60Hz

1.3 Test Facility

Test Firm : Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS - Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

| Parameter | Uncertainty |
|--|---------------------------|
| Occupied Channel Bandwidth | ±1.42 x10 ⁻⁴ % |
| RF output power, conducted | ±1.06dB |
| Power Spectral Density, conducted | ±1.06dB |
| Unwanted Emissions, conducted | ±2.51dB |
| AC Power Line Conducted Emission | ±1.80dB |
| Radiated Spurious Emission test (9kHz-30MHz) | ±2.66dB |
| Radiated Spurious Emission test (30MHz-1000MHz) | ±4.04dB |
| Radiated Spurious Emission test (1000MHz-18000MHz) | ±4.70 dB |
| Radiated Spurious Emission test (18GHz-40GHz) | ±4.80dB |
| Temperature A A A A A A A A A A A A A A A A A A A | ±0.8°C |
| Humidity & Committee of the first of the factor of the fac | ±3.2% |
| DC and low frequency voltages | ±0.1% |
| Time of the second | 1 25% £5% £5% £5% £5% £5% |
| Duty cycle | 6 (4 j.m. ±5%) (6 j.m. j. |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

2. Summary of Test Results

| Test Item | Section | Result |
|---------------------|------------------------|-----------|
| Antenna Requirement | 15,203 F F | Pass |
| Conduction Emission | 15.207 | Pass Pass |
| Radiated Emissions | 15.205, 15.209, 15.249 | Pass |
| 20dB Bandwidth | 15.215 (c) | Pass |

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

- 2. Test according to ANSI C63.10:2013
- 3.. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3. List of Test and Measurement Instruments

3.1 Conducted Emission Test

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due |
|------------|--------------------------|--------------------|-----------|------------|------------|------------|
| STIT THE | EMI Test Receiver | FINE R&S CHELLE | ESIB 7 | 2277573376 | 2023.03.21 | 2024.03.20 |
| 2 | Artificial Mains Network | SCHWARZBECK | NSLK8126 | 8126200 | 2023.03.21 | 2024.03.20 |
| 3 | PULSE LIMITER | R&S | ESH3-Z2 | 100058 | 2023.03.21 | 2024.03.20 |
| 5 4 | EMITEST RECEIVER | ROHDE & SCHWARZ | ESCS30 | 834115/014 | 2023.03.21 | 2024.03.20 |

3.2 Radiated Emission Test

| ltem | Equipment | Equipment Manufacturer | | Serial No. | Last Cal. | Cal.Due | |
|--------|-----------------------|------------------------|-------------------------|--|------------|------------|--|
| J. (5) | Spectrum Analyzer | ROHDE&SCHWARZ | FSV 40 | 101458 | 2023.04.12 | 2024.04.11 | |
| 2. | Loop Antenna | EMCO | 6502 | 2133 | 2022.07.23 | 2024.07.22 | |
| 3. 14 | | | VULB9168 | VULB9168-1-588 | 2023.04.01 | 2025.03.31 | |
| 4.6 | ROHDE & | | ESIB 7 2277573376 | | 2023.04.12 | 2024.04.11 | |
| 5.00 | EMI Test Receiver R&S | | ESPI 101131 | | 2023.03.21 | 2024.03.20 | |
| 6. | Horn Antenna | SCHWARZBECK | BBHA9120D | 02069 | 2023.04.01 | 2025.03.31 | |
| 7. × | Horn Antenna | COM-MW | ZLB7-18-40G -950 | 12221225 | 2023.01.12 | 2025.01.09 | |
| ۶8. و | Amplifier | R&S | BBV9721 | 9721-031 | 2023.03.21 | 2024.03.20 | |
| 9. | Amplifier | HPX K | BP-01G-18G | 210902 | 2023.03.21 | 2024.03.20 | |
| 10.6 | Pre-amplifier | COM-MW | DLAN-18000 -40000-02 | 10229104 | 2023.03.21 | 2024.03.20 | |
| 11. | 966 Chamber | ZhongYu Electron | 9*6*6 | of the state of th | 2022.07.25 | 2025.07.24 | |

Radiated Emission Measurement Software: EZ_EMC

3.3 RF Conducted test

| Item | m Equipment Manufacturer | | Model No. | Serial No. | Last Cal. | Cal.Due |
|------------------------------|---|--------------------|--------------------------|------------|------------|------------|
| 5 0° 5114 ^C 1. | Wideband Radio Communication Tester | Rohde & Schwarz | CW500 | 151583 | 2023.03.21 | 2024.03.20 |
| 2. | Spectrum Analyzer | ROHDE& SCHWARZ | FSV 40 | 101458 | 2023.04.12 | 2024.04.11 |
| 3. | Signal Generator | Agilent | N5182A | MY50141563 | 2023.03.21 | 2024.03.20 |
| 4. | RF Automatic Test System | MW E | MW100-RFCB/ MW100-PSB | MW2007004 | 2023.03.21 | 2024.03.20 |
| S112 | Test System | | I MINALOO-E SD | | 0 (4) (4) | NO G |

RF Conducted Measurement Software: MTS 8310

4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 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, 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.

EUT Antenna: The antenna is PCB Antenna, the best case gain of the antenna is -4.5dBi, reference to the Internal Photos for details.

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5. Conducted Emissions

5.1 Applicable Standard

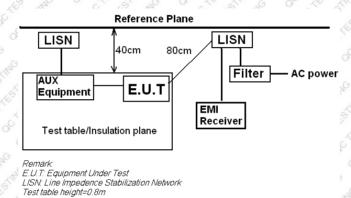
FCC Part15 C Section 15.207

5.2 Limit

| | | Limit (d | BμV) |
|------|----------------------|--------------|-----------------|
| Fr | requency range (MHz) | Quasi-peak | Average |
| (C) | 0.15-0.5 | 66 to 56* | 56 to 46* |
| GC) | 0.5-5 | 56 | 46 |
| 0 | 5-30 | (60 ct 15 m | 50 50 Establish |

Note *: The level decreases linearly with the logarithm of the frequency.

5.3 Test setup



5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz RBW=9 kHz, VBW=30 kHz, Sweep time=auto

5.5 Test procedure

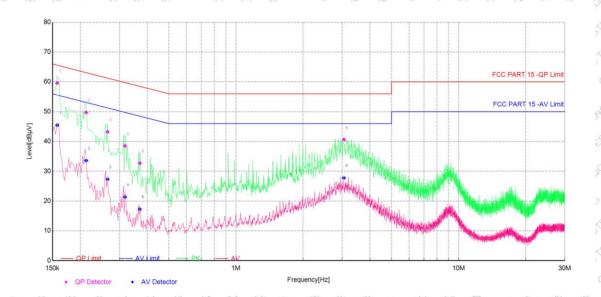
- 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
 maximum emission, the relative positions of equipment and all of the interface cables must be
 changed according to ANSI C63.10 on conducted measurement.

5.6 Test Data

| Temperature | 24 °C | Humidity | 53% |
|--------------|--------------|--------------|---------|
| ATM Pressure | 101.1kPa | Antenna Gain | -4.5dBi |
| Test by | Lgi Li | Test result | PASS |

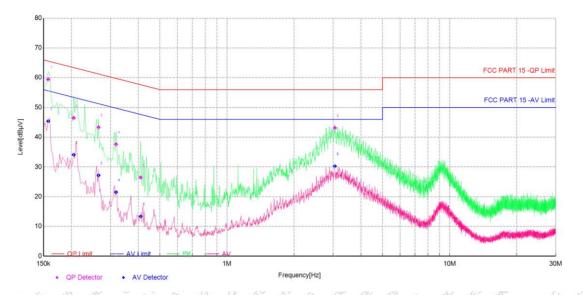
Measurement data:

Line:



| Fina | Final Data List | | | | | | | | | |
|--------------|-----------------|------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------------|---------|
| NO. | Freq. [MHz] | Factor[dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Value [dBµV] | ΑV Limit [dBμV] | AV Margin [dB] | Phase | Verdict |
| , <u>w</u> O | 0.1575 | 10.05 | 59.57 | 65.59 | 6.02 | 45.46 | 55.59 | 10.13 | JUL STILL | PASS |
| 2/1/0 | 0.2125 | 5 10.31 | 49.72 | 63.11 | 13.39 | 33.59 | 53.11 | 19.52 | a Carrier | PASS |
| √63 × | 0.2650 | 10.44 | 43.21 | 61.27 | 18.06 | 27.35 | 51.27 | 23.92 | S LO X | PASS |
| 4 | 6 0.3175 | 10.44 | 38.49 | 59.77 | 21.28 | 21.37 | 49.77 | 28.40 | STANCE OF | PASS |
| 5,6 | 0.3700 | 10.18 | 32.68 | 58.50 | 25.82 | 17.29 | 48.50 | 31.21 | P KE G | PASS |
| 6 | 3.0530 | 10.32 | 40.58 | 56.00 | 15.42 | 27.77 | 46.00 | 18.23 | CAS POLITICAL | PASS |

Neutral:



| Fina | al Data | List | | | | | | | | |
|-------|----------------|------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|--------------|---------|
| NO. | Freq. [MHz] | Factor[dB] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | ΑV Value [dBμV] | ΑV Limit [dBμV] | AV Margin [dB] | Phase | Verdict |
| (1 A | 0.1575 | 10.04 | 59.41 | 65.59 | 6.18 | 45.40 | 55.59 | 10.19 | S NO X | PASS |
| 2 | 0.2050 | 10.33 | o 46.46 | 63.41 | 16.95 | 34.10 | 53.41 | 19.31 | N O | PASS |
| 3 | 0.2650 | 10.42 | 43.30 | 61.27 | 17.97 | 27.19 | 51.27 | 24.08 | E W | PASS |
| G 4 6 | 0.3175 | 10.45 | 37.60 | 59.77 | 22.17 | 21.53 | 49.77 | 28.24 | The Night TO | PASS |
| 5 | 0.4100 | 10.40 | 26.42 | 57.65 | 31.23 | 13.39 | 47.65 | 34.26 | N.ST. | PASS |
| 674 | 3.0530 | 10.29 | 43.11 | 56.00 | 12.89 | 30.27 | 46.00 | 15.73 | N KE | PASS |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

6. Radiated Emission Method

6.1 Applicable Standard FCC Part15 C Section 15.249

6.2 Limit

| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|--------------------------|--|--|
| 902-928 MHz | 50 | 500 |
| 2400-2483.5 MHz | 50 | 500 |
| 5725-5875 MHz | 50 | 500 |
| 24.0-24.25 GHz | 250 | 2500 |

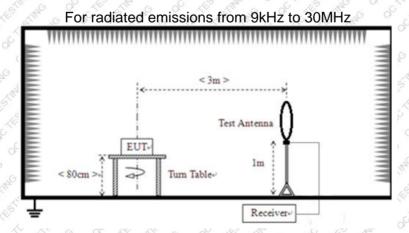
As per FCC Section 15.249

- (c) Field strength limits are specified at a distance of 3 meters.
- (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

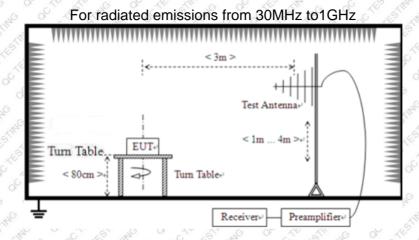
6.3 Receiver setup

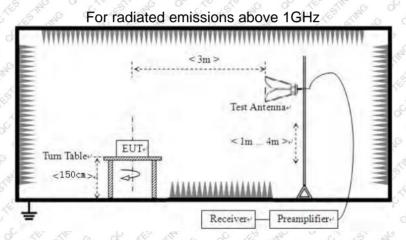
| Frequency | Detector | RBW | VBW (6) | Value |
|--------------|------------|--------|---------|------------|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak J | 1MHz | 3MHz | Peak |
| Above IGHZ | Peak | 1MHz | 10Hz 🔑 | Average |

6.4 Test setup









6.5 Test Procedure

- The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

6.6 Test Data

| Temperature | 25℃ | Humidity | 49% |
|--------------|------------|--------------|---------|
| ATM Pressure | 101.1kPa | Antenna Gain | -4.5dBi |
| Test by | Charlie He | Test result | PASS |

Remarks:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

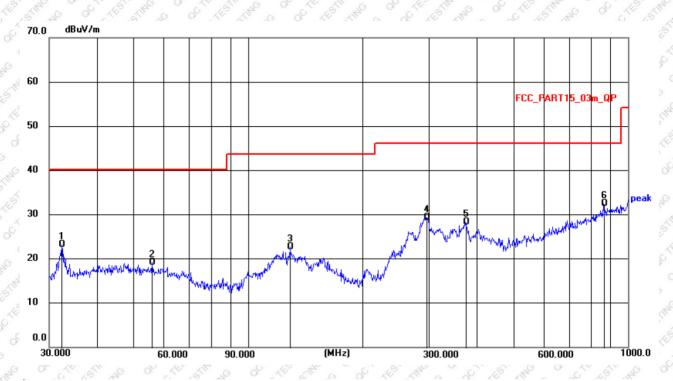
Measurement data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



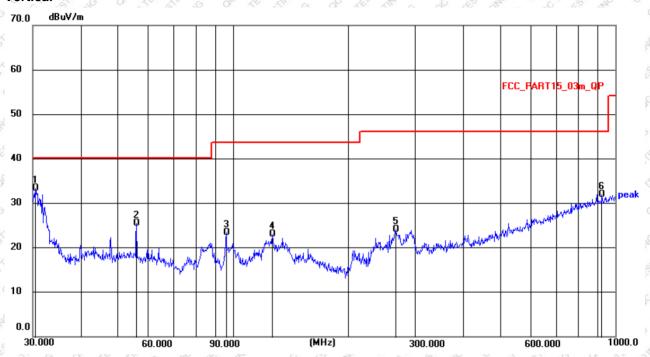
Below 1GHz: Horizontal



| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | 1.O. W |
|--|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|--------|
| (| 1 | 32.4059 | 9.88 | 13.32 | 23.20 | 40.00 | 16.80 | QP | 0.02 |
| 3 | 2 | 56.0007 | 4.93 | 14.19 | 19.12 | 40.00 | 20.88 | QP | , |
| , V.O. | 3 | 129.0146 | 8.77 | 13.92 | 22.69 | 43.50 | 20.81 | QP | 1/1/2 |
| Ç | 4 | 294.1137 | 14.83 | 14.53 | 29.36 | 46.00 | 16.64 | QP | Ś |
| , | 5 | 373.3112 | 11.38 | 16.94 | 28.32 | 46.00 | 17.68 | QP | |
| 1 | 6 * | 863.0562 | 6.64 | 25.77 | 32.41 | 46.00 | 13.59 | QP | 2 |







| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|-------------------|------------------|-------------------|-------------------|----------------|----------|
| 1 | * 30.4238 | 20.78 | 12.53 | 33.31 | 40.00 | 6.69 | QP |
| 2 | 56.0007 | 11.46 | 13.93 | 25.39 | 40.00 | 14.61 | QP |
| 3 | 96.0986 | 12.64 | 10.81 | 23.45 | 43.50 | 20.05 | QP |
| 4 | 126.7723 | 9.42 | 13.52 | 22.94 | 43.50 | 20.56 | QP |
| § 5 | 266.6089 | 10.40 | 13.68 | 24.08 | 46.00 | 21.92 | QP |
| 6 | 922.5157 | 5.67 | 26.33 | 32.00 | 46.00 | 14.00 | QP |



Above 1G:

| Frequency (MHz) | Read Level (dBµV) | polarization | Factor (dB/m) | Level (dBµV/m) | Limit Line (dBµV/m) | Margin (dB) | Detector |
|--------------------|----------------------|---------------|------------------|-------------------|------------------------|----------------|----------|
| 1116.093 | 50.72 | EST MAN | -15.35 | 35.37 | 74 % | 38.63 | peak |
| 1600.262 | 51.12 | CALLER TO | -14.39 | 36.73 | 74 | 37.27 | peak |
| 1112.872 | 52.63 | of Visit | -15.55 | 37.08 | 74 | 36.92 | peak |
| 2310 | 45.25 | H K | -11.14 | 34.11 | 74 | 39.89 | peak |
| 2310 | 46.11 | STAN V. C. C. | -11.16 | 34.95 | 74 | 39.05 | peak |
| 2390 | 45.67 | THE S | -10.9 | 34.77 | 74 | 39.23 | peak |
| 2390 | 45.77 | C. VESTINE | -10.96 | 34.81 | 74 | 39.19 | peak |
| 2400 | 46.84 | A HICE | -10.87 | 35.97 | 74 | 38.03 | peak |
| 2400 | 46.19 | ESTANDO OC | -10.93 | 35.26 | 74 | 38.74 | peak |
| 2483.5 | 46.39 | K H | -10.61 | 35.78 | 74 | 38.22 | peak |
| 2483.5 | 46.69 | ST VE THE | -10.71 | 35.98 | 74 | 38.02 | peak |
| 2500 | 45.93 | P HAT TO | -10.57 | 35.36 | 6 74 | 38.64 | peak |
| 2500 | 45.51 | THE V OF C | -10.67 | 34.84 | 74 | 39.16 | peak |
| 3202.259 | 54.79 | A SH CO | -8.29 | 46.5 | 74 | 27.5 | peak |
| 3202.259 | 56.68 | STAN STAN | -8,11 | 48.57 | 74 | 25.43 | peak |
| 4804 | 46.57 | L H A | -4.37 | 42.2 | 74 | 31.8 | peak |
| 4804 | 47.96 | No Vo Co | -4.51 | 43.45 | o 74 K | 30.55 | peak |

| 0 | Frequency (MHz) | Read Level (dBµV) | polarization | Factor (dB/m) | Peak value (dBµV/m) | Average Limit (dBµV/m) | Margin (dB) |
|---|--------------------|----------------------|--------------|------------------|------------------------|---------------------------|----------------|
| 3 | 2402 | 90.38 | TIME H OF ST | -10.87 | 79.51 | 93.98 | 14.47 |
| 6 | 2402 | 80.34 | | -10.93 | 69.41 | 93.98 | 24.57 |

Remarks:

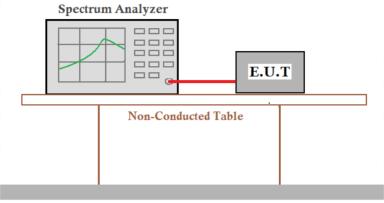
- 1. Level =Reading + Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

7. 20dB Occupy Bandwidth

- 7.1 Applicable Standard
 FCC Part15 C Section 15.215
- 7.2 Limit

N/A

7.3 Test setup



Ground Reference Plane

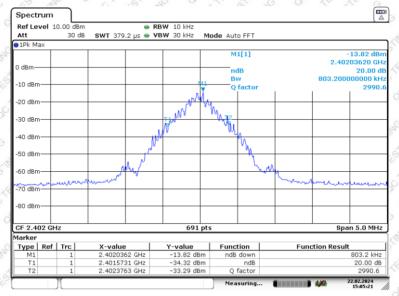
7.4 Test Data

| Temperature | 23.5 °C | Humidity | 48% |
|--------------|---------------------------|--------------|---------|
| ATM Pressure | 101.1kPa | Antenna Gain | -4.5dBi |
| Test by | LBi Light After Section 1 | Test result | PASS |

Please refer to following table and plots.

| 3 | Test Frequency (MHz) | 20dB bandwidth (MHz) |
|-----|----------------------|--|
| N S | 2402 2 3 3 3 3 | . O.803 C. |

Test plot as follows:



Date: 22.FEB.2024 15:05:22

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