



1 Cover Page

# TEST REPORT

**Application No.:** SHCR2205000935LM  
**FCC ID:** 2A7Z9XY2210  
**Applicant:** Taizhou Xinye Technology Co.,Ltd.  
**Address of Applicant:** No. 371,Baihutang, Zhenxi Village, Toutuo Town, Huangyan District, Taizhou, Zhejiang, China  
**Manufacturer:** Taizhou Xinye Technology Co.,Ltd.  
**Address of Manufacturer:** No. 371,Baihutang, Zhenxi Village, Toutuo Town, Huangyan District, Taizhou, Zhejiang, China  
**Factory:** Taizhou Xinye Technology Co.,Ltd.  
**Address of Factory:** No. 371,Baihutang, Zhenxi Village, Toutuo Town, Huangyan District, Taizhou, Zhejiang, China  
**Equipment Under Test (EUT):**  
**EUT Name:** wireless remote control string light  
**Model No.:** Refer to Page 2 ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.231  
**Date of Receipt:** 2024-03-18  
**Date of Test:** 2024-03-20 to 2024-03-28  
**Date of Issue:** 2024-04-02

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan  
Laboratory Manager



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**Model No.:**

XYIP-**\***LED-**\*\***-**\*\***-**\***

The first “\*” can be voltage of lighting chain, which could be “3E-24E” for “3V-24V”

The second “\*\*” can be any integer value between “2” - “200”, indicating the total number of LEDs.

The third “\*\*” can be blank, “C”, “A” or “R” indicating lighting chain with controller,

Blank = LED driver without control fuction, “C” = LED driver with control fuction, “A” = lighting chain with controller, “R” = lighting chain with remote controller

The forth “\*\*” can be blank, “I”, “N”, “S”, “C”, “SN”, “CL” or “T”, indicating the lighting chain style/shape:

Blank = line, “I” = Icicle, “N” = Net, “S” = Swag, “C” = Curtain, “SN” = Snake, “CL” = Cluster, “T” = Tree

The fifth “\*\*” can be “A”, “B”, “M”, “RGB”, “RGB1”, “RGB2” or “RGB3”, indicating a different LED type/color:

Value of the asterisk	Light colour	Electric ratings
A	Red, Yellow, Yellow / Green & Amber	20 mA / 1.8 - 2.2 V
B	Aqua, Blue, Green, Ice White, Lilac, Peachblow, Pink, Purple & Warm White, Rosiness	20 mA / 2.8 - 3.2 V
M	Mixed, RGB	20 mA / 1.8 - 2.2 V and 2.8 - 3.2 V
RGB	RGB	12 mA - 20 mA / 5 V
RGB1	RGBWW	11 mA - 28 mA / 5 V
RGB2	RGBW	9 mA - 21 mA / 5 V
RGB3	RBWW	12mA - 20mA/5V

The sixth “\*\*” can be lighting chain with decoration or motif,

“D” means lighting chain with decoration, “M” means lighting chain with motif, blank means lighting chain without decoration and motif



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Revision Record			
Version	Description	Date	Remark
00	Original	2024-04-02	/

Authorized for issue by:			
		Bill Wu	
		Bill Wu/Project Engineer	
		Parlam Zhan	
		Parlam Zhan /Reviewer	



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## 2 Test Summary

Test Item	FCC Requirement	Test method	Result
Antenna Requirement	Part 15.203	/	PASS
Conducted Emission	Part 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Field Strength of the Fundamental	Part 15.231 (b)	ANSI C63.10 (2013) Section 6.4	PASS
Radiated Spurious emissions	Part 15.209 15.231(b)	ANSI C63.10 (2013) Section 6.4&6.5&6.6	PASS
20dB Bandwidth	Part 15.231 (c)	ANSI C63.10 (2013) Section 6.9.2	PASS
Dwell Time	Part 15.231 (a)	ANSI C63.10 (2013) Section 7.8.4	PASS

N/A: Not applicable. Please refer to Section 6.2 of this report for details.

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model XYIP-24ELED-200R-RGB was tested since their differences were the model number and appearance.



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## 4 General Information

### 4.1 General Description of E.U.T.

Power supply:	DC 3V by CR2025 Lithium Cell
Test voltage:	DC 3V

### 4.2 Technical Specifications:

Modulation Type	FSK
Number of Channels	1
Operation Frequency	434.05MHz
Antenna Type	PCB Antenna
Transmitter type	Manual

### 4.3 Description of Support Units

The EUT has been tested independently

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



## 4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized by Federal Communications Commission (FCC) as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

ISED#: 8617A.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

- **GAC (No. ATL 0031)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the GCC Accreditation Center (GAC) in accordance with the recognised International standard ISO/IEC 17025: 2017.



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#### 4.6 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF Radiated power	5.1dB (Below 1GHz)
		5.9dB (Above 1GHz)
6	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
7	Temperature test	1°C
8	Humidity test	3%
9	Supply voltages	1.5%
10	Time	3%

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



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## 5 Equipments Used during Test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2023-12-19	2024-12-18
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2023-12-19	2024-12-18
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2023-12-19	2024-12-18
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2023-09-03	2025-09-02
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2023-04-17	2025-04-16
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023-09-03	2025-09-02
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2023-09-03	2025-09-02
Pre-Amplifier	HP	8447D	SHEM236-1	2023-12-19	2024-12-18
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2023-12-19	2024-12-18
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
RE test Cable	/	PT18-NMMN-10M	SHEM217-2	2023-12-19	2024-12-18
Test software	ESE	E3	Version: 6.111221a	/	/



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## 6 Test results and Measurement Data

### 6.1 Antenna Requirement

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.

The antenna is PCB antenna and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)



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### 6.2 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

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.

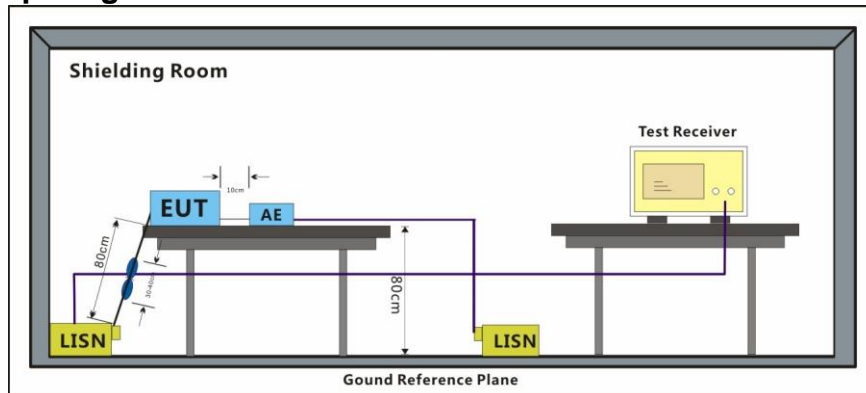
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode N/A

#### 6.2.2 Test Setup Diagram



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### 6.2.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Note: This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



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### 6.3 Spurious Emissions

Test frequency range: 9KHz – 5GHz

Test Site: Measurement Distance: 3m

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.015MHz	Quasi-peak	200Hz	1KHz	Quasi-peak
0.015MHz-30MHz	Quasi-peak	9kHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:  
(Spurious Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m )	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	Quasi-peak	300
0.490MHz-1.705MHz	24000/F(kHz)	-	Quasi-peak	30
1.705MHz-30MHz	30	-	Quasi-peak	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3
		74.0	Peak	3

Limit:  
(Field strength of the fundamental signal)

Frequency	Limit (dBuV/m @3m)	Remark
433.09 - 434.61MHz	80.83	Average Value
	100.83	Peak Value

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable 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.
- 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.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the Z axis positioning which it is worse case, only the test worst case



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mode is recorded in the report.

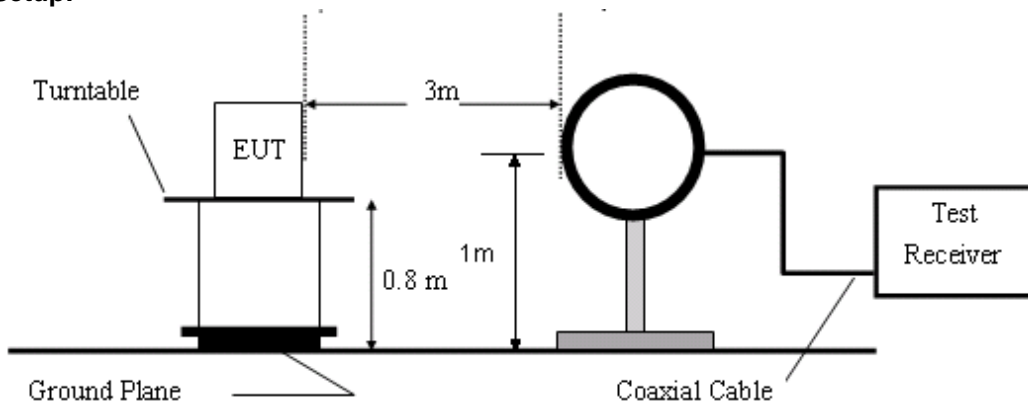
**E.U.T. Operation**

Operating Environment:

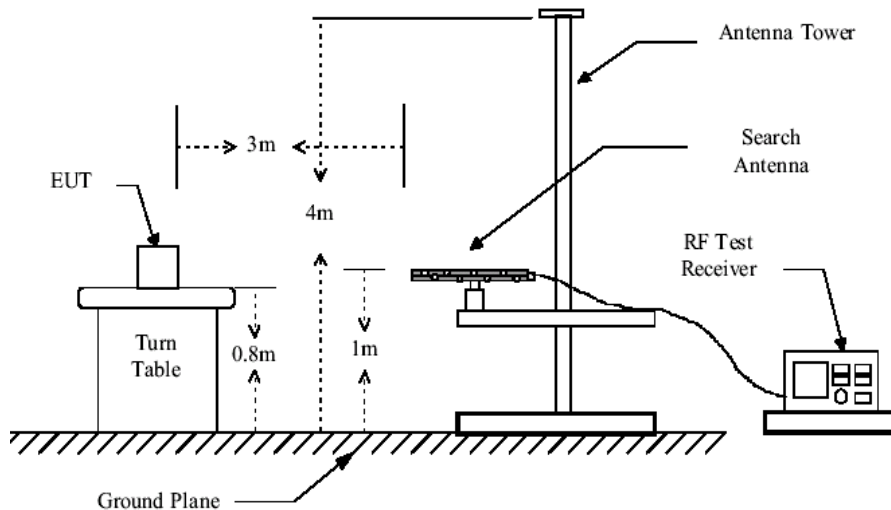
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: TX mode\_Keep the EUT in transmitting with modulation mode.

**Test Setup:**



**Figure1. Blow 30MHz radiated emissions test configuration**



**Figure2. 30MHz to 1GHz radiated emissions test configuration**



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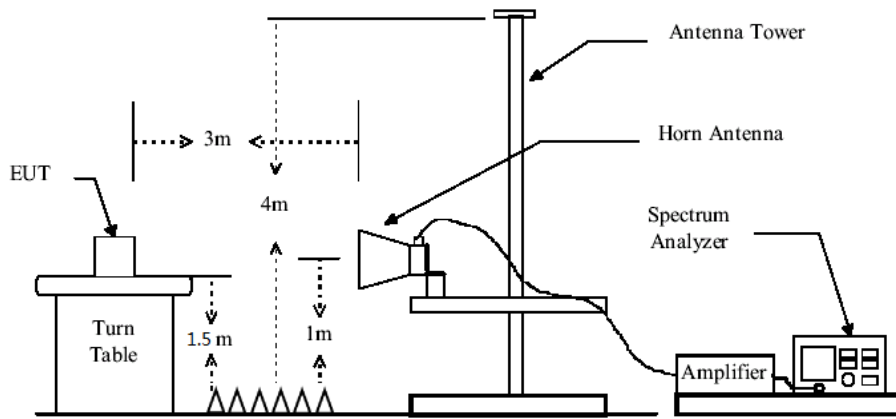


Figure3. Above 1GHz radiated emissions test configuration

Test Results: Pass

6.3.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Detector	Polarization
Channel 1	434.05	73.73	80.83	-7.1	Peak	Vertical
		73.43	80.83	-7.4	Peak	Horizontal

Remark:

1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



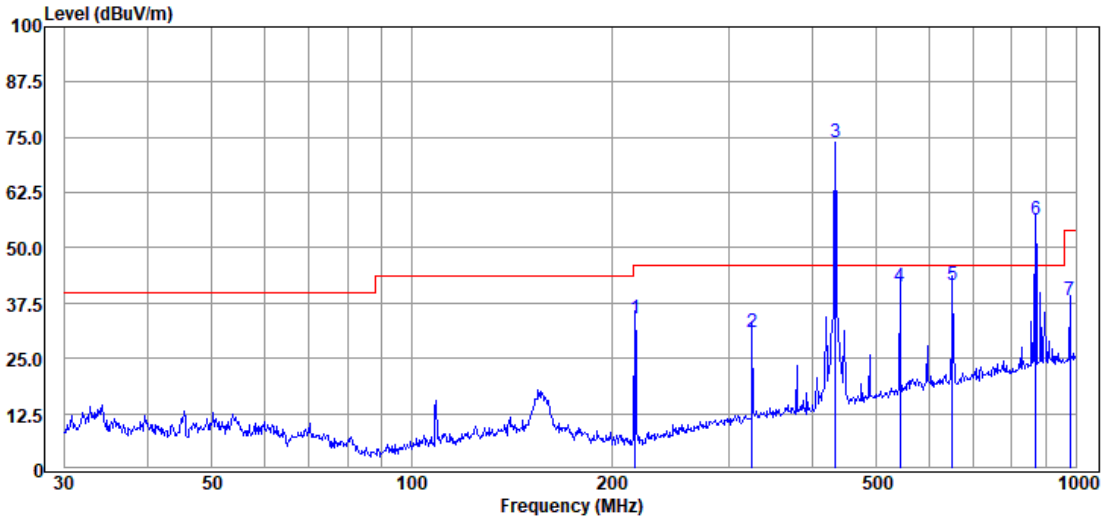
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6.3.2 Spurious Emissions

Below 1GHz

Vertical:



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Preamp Factor (dB)	Cable Loss (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	216.783	53.87	9.87	32.93	3.08	33.89	46.00	-12.11	QP	VERTICAL
2	325.596	45.50	14.21	32.75	3.93	30.89	46.00	-15.11	QP	VERTICAL
3	434.065	85.06	16.83	32.73	4.57	73.73	Fundamental Signal			VERTICAL
4	543.274	50.19	18.70	32.70	5.18	41.37	46.00	-4.63	QP	VERTICAL
5	651.942	47.90	20.58	32.60	5.73	41.61	46.00	-4.39	QP	VERTICAL
6	869.130	58.19	23.30	31.89	6.77	56.37	60.83	-4.46	QP	VERTICAL
7	979.180	38.35	23.90	31.38	7.27	38.14	54.00	-15.86	QP	VERTICAL

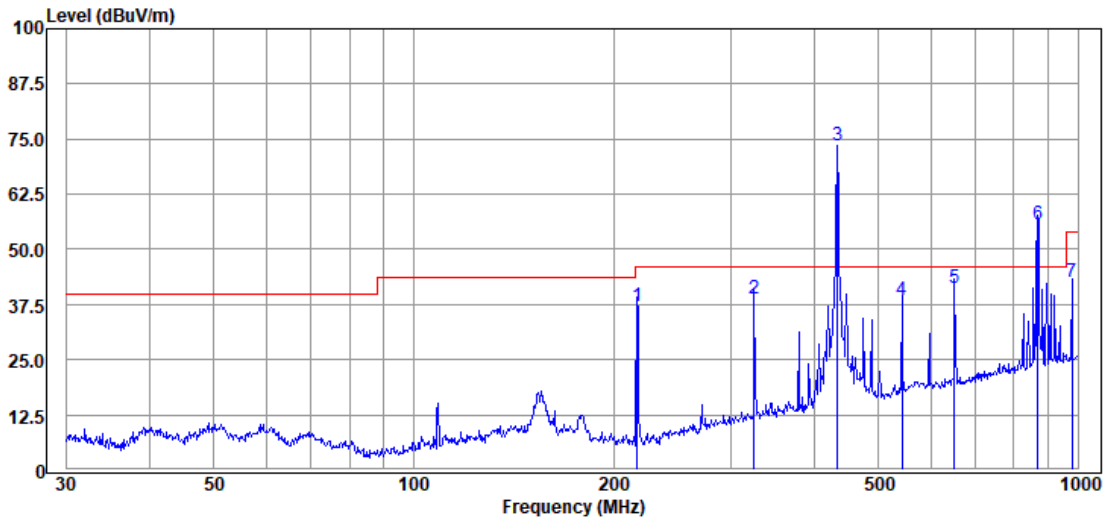


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Horizontal:



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Pream p Factor (dB)	Cabl e Loss (dB)	Result Level (dBμV/ m)	Limit Line (dBμV/ m)	Over Limit (dB)	Detector	Polarization
1	216.783	57.06	9.87	32.93	3.08	37.08	46.00	-8.92	QP	HORIZONTAL
2	325.596	53.47	14.21	32.75	3.93	38.86	46.00	-7.14	QP	HORIZONTAL
3	434.065	84.76	16.83	32.73	4.57	73.43	Fundamental Signal			HORIZONTAL
4	543.274	47.29	18.70	32.70	5.18	38.47	46.00	-7.53	QP	HORIZONTAL
5	651.942	47.58	20.58	32.60	5.73	41.29	46.00	-4.71	QP	HORIZONTAL
6	869.130	57.44	23.30	31.89	6.77	55.62	60.83	-5.21	QP	HORIZONTAL
7	979.180	42.68	23.90	31.38	7.27	42.47	54.00	-11.53	QP	HORIZONTAL



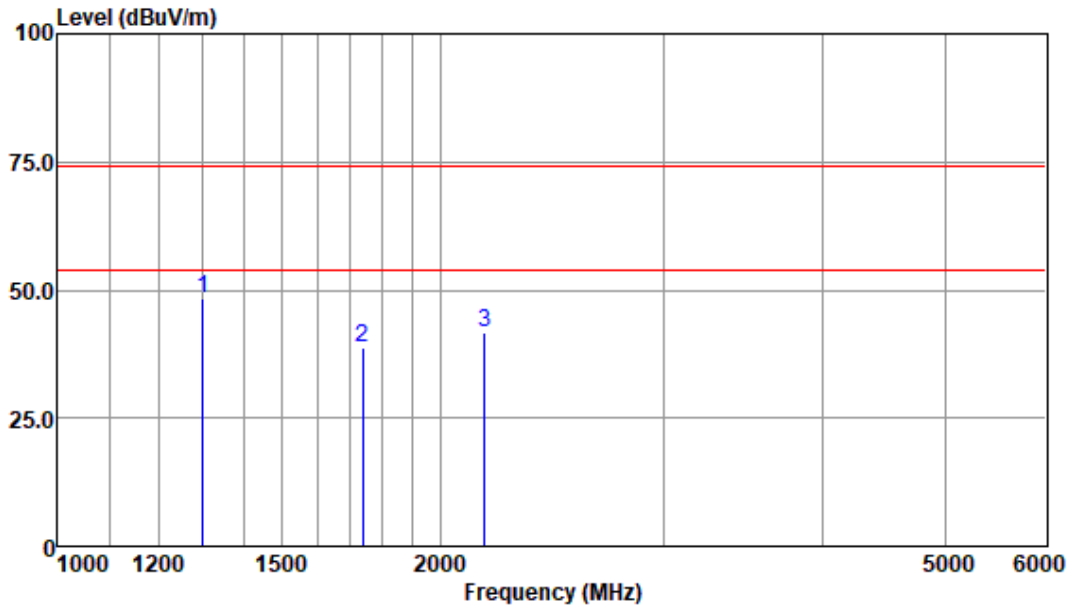
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Above 1GHz

Horizontal



Antenna Polarity :HORIZONTAL

EUT/Project :0935LM

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1301.33	55.81	24.99	2.43	34.78	48.45	74.00	-25.55	Peak
1736.48	43.79	26.86	2.87	34.77	38.75	74.00	-35.25	Peak
2168.51	45.65	27.79	3.13	34.99	41.58	74.00	-32.42	Peak

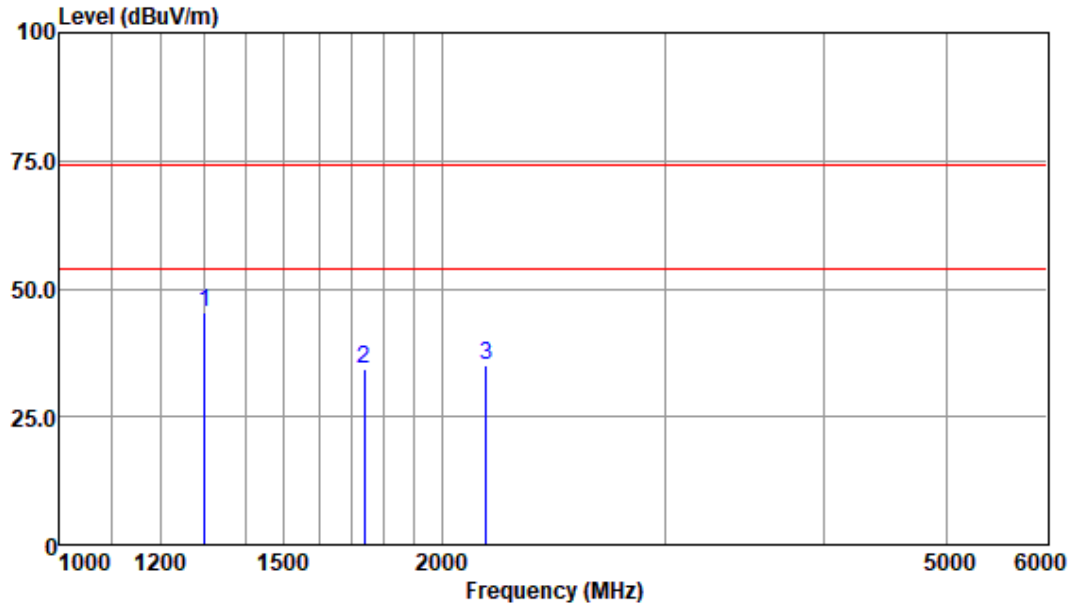
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Vertical



Antenna Polarity :VERTICAL  
EUT/Project :0935LM

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1301.33	52.84	24.99	2.43	34.78	45.48	74.00	-28.52	Peak
1736.48	39.43	26.86	2.87	34.77	34.39	74.00	-39.61	Peak
2168.51	38.98	27.79	3.13	34.99	34.91	74.00	-39.09	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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### 6.4 20dB Bandwidth

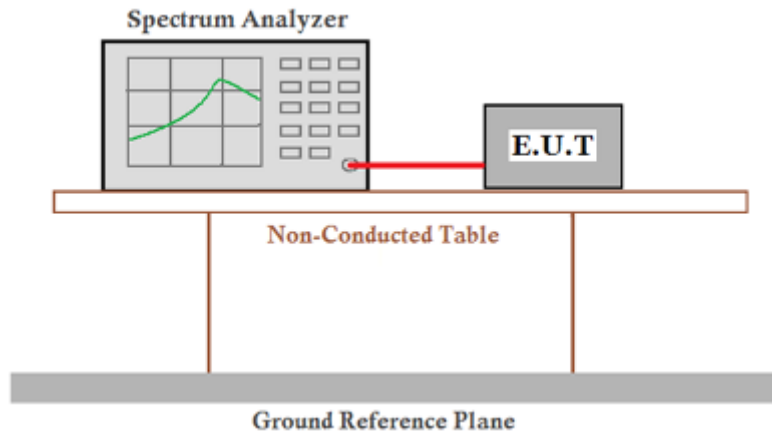
#### E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: TX mode\_Keep the EUT in transmitting with modulation mode.

#### Test Setup:



**Limit:** The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

**Test Results:** Pass

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
434.05	3.12	1085.1	Pass



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Test plot as follows:



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## 6.5 Dwell Time

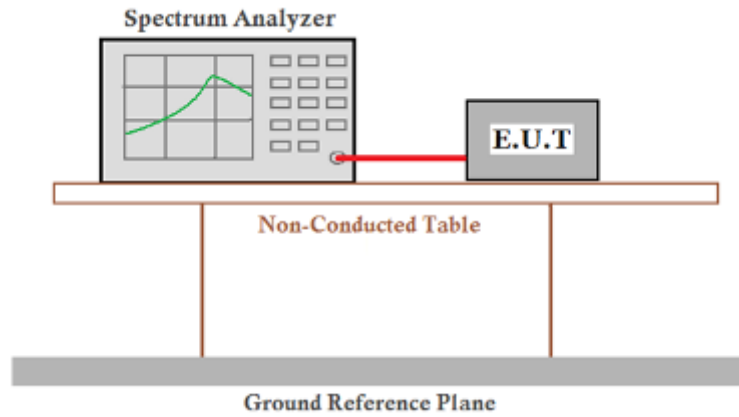
### E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: TX mode\_Keep the EUT in transmitting with modulation mode.

### Test Setup:



Limit: 15.231 (a): Not more than 5 seconds

Test Results: Pass

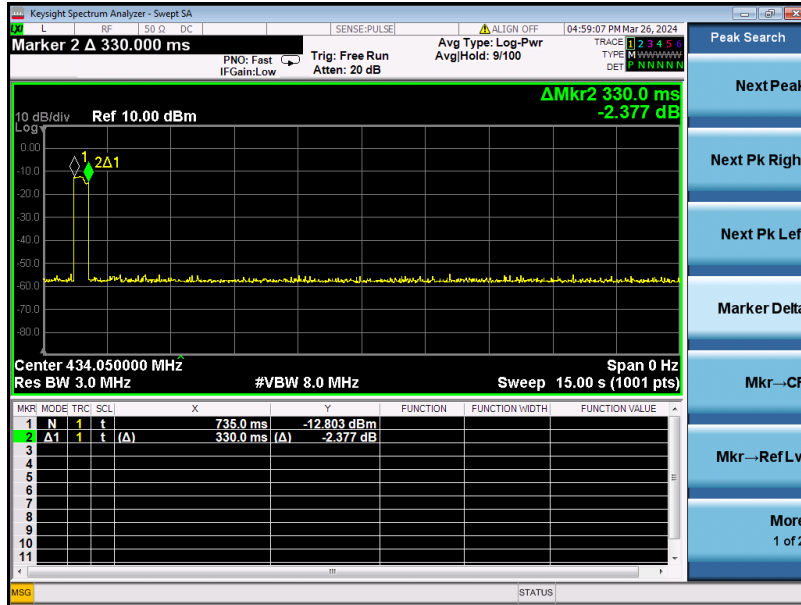
### Measurement Data:

Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass





Test plot as follows:



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## 7 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

**--End of the Report--**



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