

# FCC Test Report

**Report No.** : 1812C50322812503-M1

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**Applicant** : Shenzhen Xinyi Technology Co., Ltd.

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**Address** : C505, Bay Area Digital Warehouse, Taoyuan  
Community, Dalang Street, Longhua District,  
Shenzhen, China

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**Product Name** : Smart Projector

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**Report Date** : 2025-11-12

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## TEST REPORT

Applicant : Shenzhen Xinyi Technology Co., Ltd.  
Manufacturer : GuangDong SINOY Smart Technology CO., LTD  
Product Name : Smart Projector  
Model No. : HY300Max  
Trade Mark : MAGCUBIC  
Rating(s) : Input1: 36Vdc 0.95A  
Input2: 12Vdc 1.0A  
**47 CFR Part 15.247**  
**Test Standard(s) : ANSI C63.10-2020**  
**KDB 558074 D01 15.247 Meas Guidance v05r02**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2025-09-23

Date of Test: 2025-09-23 to 2025-11-04

Prepared By:

*Cecilia Chen*

(Cecilia Chen)

Approved & Authorized Signer:

*Hugo Chen*

(Hugo Chen)

Revision History

| Report Version | Description             | Issued Date |
|----------------|-------------------------|-------------|
| R00            | Original Issue.(Note 1) | 2025-11-12  |
|                |                         |             |
|                |                         |             |

Note 1:  
This is a Class II application which was based on the original report 1812C50322812503. The difference between the original device and current one described as following:

1. Change the Adapter .

The changes are not related with the other RF parameters, only Conducted Emission and spurious emission (below 1GHz) were retested.

## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                                        |
|--------------|---|------------------------------------------------------------------------------------------------------------------------|
| Applicant    | : | Shenzhen Xinyi Technology Co., Ltd.                                                                                    |
| Address      | : | C505, Bay Area Digital Warehouse, Taoyuan Community, Dalang Street, Longhua District, Shenzhen, China                  |
| Manufacturer | : | GuangDong SINOY Smart Technology CO., LTD                                                                              |
| Address      | : | 5TH Floor, Building #2, RunFengZhiGu Industrial Park, Changping Town, DongGuan City, Guangdong, China.                 |
| Factory      | : | GuangDong SINOY Smart Technology CO., LTD                                                                              |
| Address      | : | Dongguan Changping Run FengZhigu factory building 2, 3rd floor, 5th floor, 501, 3rd floor, 3rd floor, 4th floor, China |

### 1.2. Description of Device (EUT)

|                   |   |                                                                                                                                                                                          |
|-------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name      | : | Smart Projector                                                                                                                                                                          |
| Model No.         | : | HY300Max                                                                                                                                                                                 |
| Trade Mark        | : | MAGCUBIC                                                                                                                                                                                 |
| Test Power Supply | : | AC 120V/60Hz for Adapter                                                                                                                                                                 |
| Test Sample No.   | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)                                                                                                                                          |
| Adapter           | : | Manufacturer: Guangdong Mingxin Power Technologies Co.,Ltd.<br>Model: MX60WB-3600950U<br>-1201000U<br>Input: 100-240V~, 50/60Hz, 1.5A Max<br>Output1: 36.0V=0.95A<br>Output2: 12.0V=1.0A |

#### RF Specification

|                     |   |                                                                                                                                                                                                                         |
|---------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency | : | 802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz;<br>802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz                                                                                                                         |
| Number of Channel   | : | 802.11b/g/n(HT20)/ax(HEW20): 11 Channels;<br>802.11n(HT40)/ax(HEW40): 7 Channels                                                                                                                                        |
| Modulation Type     | : | 802.11b: DSSS(CCK, DQPSK, DBPSK);<br>802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM);<br>802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>802.11ax(HEW20 and HEW40): OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |
| Antenna Type        | : | PCB Antenna                                                                                                                                                                                                             |
| Antenna Gain(Peak)  | : | 3.41dBi                                                                                                                                                                                                                 |

#### Remark:

- (1) All of the RF specification are provided by customer.  
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-------|--------------|-----------|------------|
| /     | /            | /         | /          |

### 1.4. Operation channel list

Operation Band:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 2412            | 5       | 2432            | 9       | 2452            |
| 2       | 2417            | 6       | 2437            | 10      | 2457            |
| 3       | 2422            | 7       | 2442            | 11      | 2462            |
| 4       | 2427            | 8       | 2447            | /       | /               |

### 1.5. Description of Test Modes

| Pretest Modes | Descriptions                                       |
|---------------|----------------------------------------------------|
| TM1           | Keep the EUT in 802.11b transmitting mode.         |
| TM2           | Keep the EUT in 802.11g transmitting mode.         |
| TM3           | Keep the EUT in 802.11n(HT20) transmitting mode.   |
| TM4           | Keep the EUT in 802.11n(HT40) transmitting mode.   |
| TM5           | Keep the EUT in 802.11ax(HEW20) transmitting mode. |
| TM6           | Keep the EUT in 802.11ax(HEW40) transmitting mode. |

### 1.6. Measurement Uncertainty

| Parameter                                                                                                                                                                                                                    | Uncertainty                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz)                                                                                                                                                                                       | 3.2dB                                |
| Radiated spurious emissions (30MHz~1GHz)                                                                                                                                                                                     | Horizontal: 3.70dB; Vertical: 4.42dB |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                      |

## 1.7. Additional Instructions

Power level setup in software: Set the frequency through the adb command.

Operation Band:

| Mode            | Channel(MHz) | Power level | Transmitting type |
|-----------------|--------------|-------------|-------------------|
| 802.11b         | 2412         | default     | data pack TX      |
| 802.11b         | 2437         | default     | data pack TX      |
| 802.11b         | 2462         | default     | data pack TX      |
| 802.11g         | 2412         | default     | data pack TX      |
| 802.11g         | 2437         | default     | data pack TX      |
| 802.11g         | 2462         | default     | data pack TX      |
| 802.11n(HT20)   | 2412         | default     | data pack TX      |
| 802.11n(HT20)   | 2437         | default     | data pack TX      |
| 802.11n(HT20)   | 2462         | default     | data pack TX      |
| 802.11n(HT40)   | 2422         | default     | data pack TX      |
| 802.11n(HT40)   | 2437         | default     | data pack TX      |
| 802.11n(HT40)   | 2452         | default     | data pack TX      |
| 802.11ax(HEW20) | 2412         | default     | data pack TX      |
| 802.11ax(HEW20) | 2437         | default     | data pack TX      |
| 802.11ax(HEW20) | 2462         | default     | data pack TX      |
| 802.11ax(HEW40) | 2422         | default     | data pack TX      |
| 802.11ax(HEW40) | 2437         | default     | data pack TX      |
| 802.11ax(HEW40) | 2452         | default     | data pack TX      |

## 1.8. Test Summary

| Test Items                                           | Test Modes      | Status |
|------------------------------------------------------|-----------------|--------|
| Conducted Emission at AC power line                  | Mode1,2,3,4,5,6 | P      |
| Emissions in restricted frequency bands (below 1GHz) | Mode1,2,3,4,5,6 | P      |
| Note:<br>P: Pass<br>N: N/A, not applicable           |                 |        |

## 1.9. Description of Test Facility

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

### FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.  
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

### 1.11. Test Equipment List

| Conducted Emission at AC power line |                                                       |                  |              |            |            |              |
|-------------------------------------|-------------------------------------------------------|------------------|--------------|------------|------------|--------------|
| Item                                | Equipment                                             | Manufacturer     | Model No.    | Serial No. | Last Cal.  | Cal.Due Date |
| 1                                   | L.I.S.N. Artificial Mains Network                     | Rohde & Schwarz  | ENV216       | 100055     | 2025-09-05 | 2026-09-04   |
| 2                                   | Software Name EZ-EMC                                  | Farad Technology | ANB-03A      | N/A        | /          | /            |
| 3                                   | EMI Test Receiver(CE2#)                               | Rohde & Schwarz  | ESPI3        | 100926     | 2025-09-05 | 2026-09-04   |
| 4                                   | Three Phase V-type Artificial Power Network LISN 200A | EMtrace          | PWL-50-3200A | 2404       | 2025-02-21 | 2026-02-20   |

| Emissions in frequency bands (below 1GHz) |                           |                 |            |            |            |              |
|-------------------------------------------|---------------------------|-----------------|------------|------------|------------|--------------|
| Item                                      | Equipment                 | Manufacturer    | Model No.  | Serial No. | Last Cal.  | Cal.Due Date |
| 1                                         | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26      | 101481     | 2025-01-14 | 2026-01-13   |
| 2                                         | Pre-amplifier             | SONOMA          | 310N       | 186860     | 2025-01-14 | 2026-01-13   |
| 3                                         | Bilog Broadband Antenna   | Schwarzbeck     | VULB9163   | 345        | 2025-09-05 | 2028-09-04   |
| 4                                         | Loop Antenna (9K-30M)     | Schwarzbeck     | FMZB1519 B | 00053      | 2025-09-05 | 2026-09-04   |
| 5                                         | EMI Test Software EZ-EMC  | SHURPLE         | N/A        | N/A        | /          | /            |

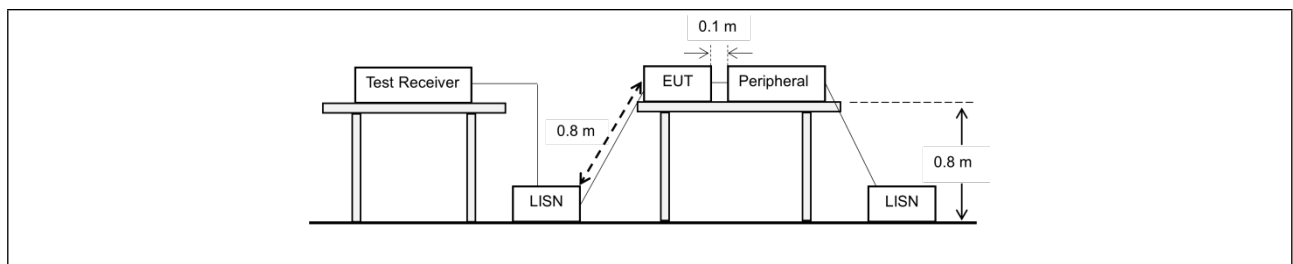
## 2. Conducted Emission at AC power line

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Conducted limit (dB $\mu$ V) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 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 C63.10-2020 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                                                                              |                              |           |

### 2.1. EUT Operation

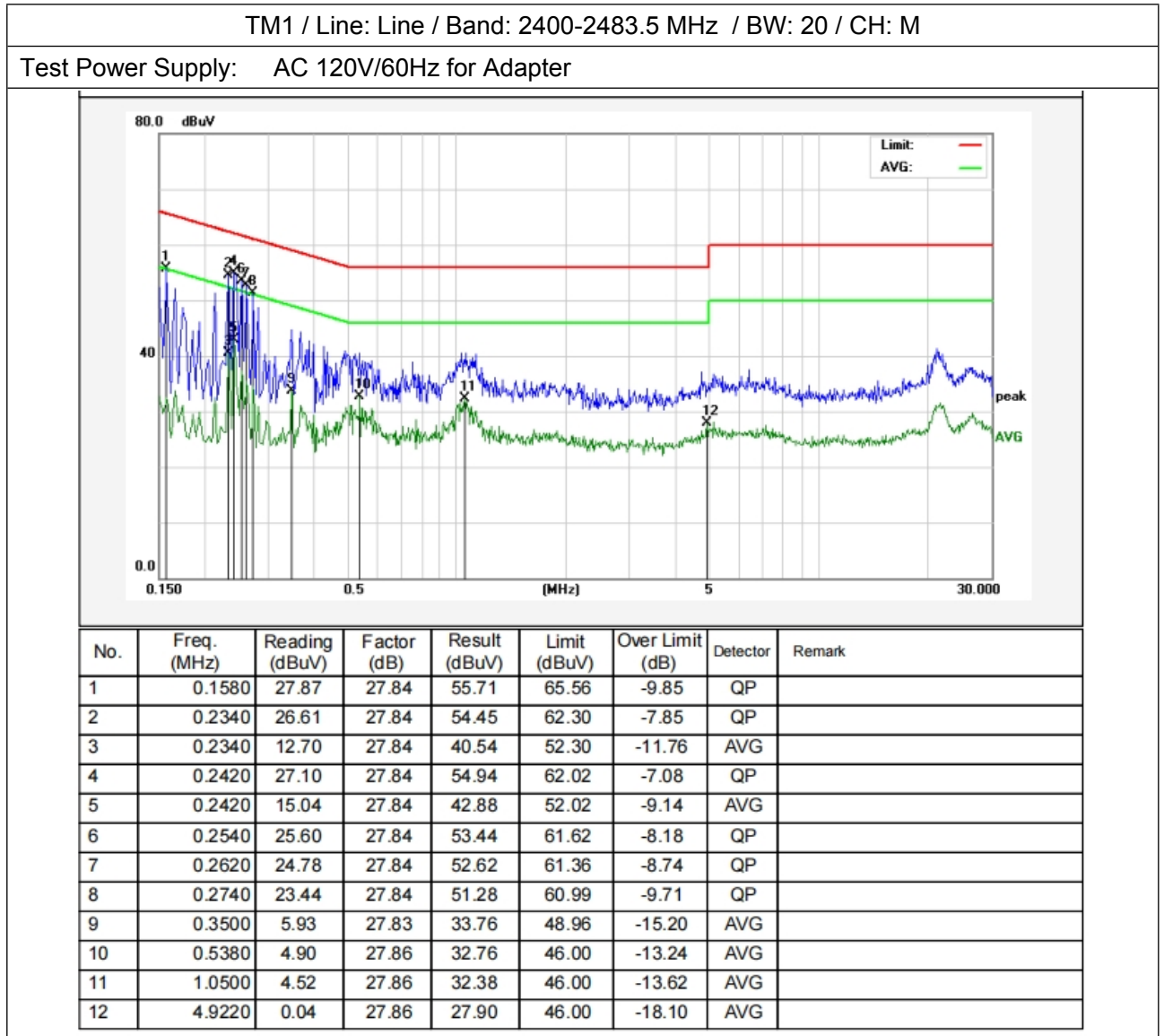
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test mode:             | 1: 802.11b mode: Keep the EUT in 802.11b transmitting mode.<br>2: 802.11g mode: Keep the EUT in 802.11g transmitting mode.<br>3: 802.11n(HT20) mode: Keep the EUT in 802.11n(HT20) transmitting mode.<br>4: 802.11n(HT40) mode: Keep the EUT in 802.11n(HT40) transmitting mode.<br>5: 802.11ax(HEW20): Keep the EUT in 802.11ax(HEW20) transmitting mode.<br>6: 802.11ax(HEW40): Keep the EUT in 802.11ax(HEW40) transmitting mode. |

### 2.2. Test Setup



## 2.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

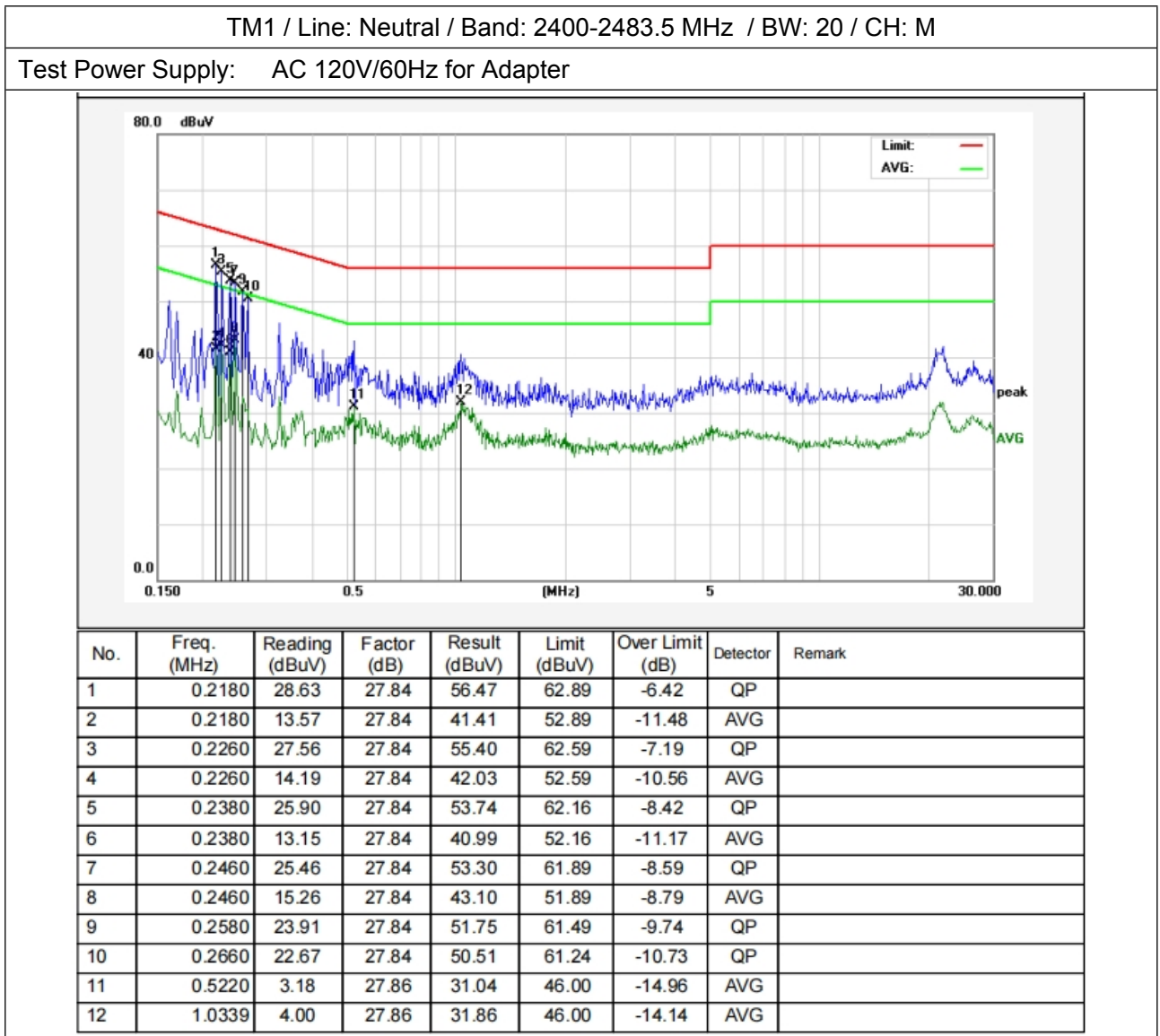


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|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



Note:

1. Only record the worst data in the report.
2.  $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$ ;  
 $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$

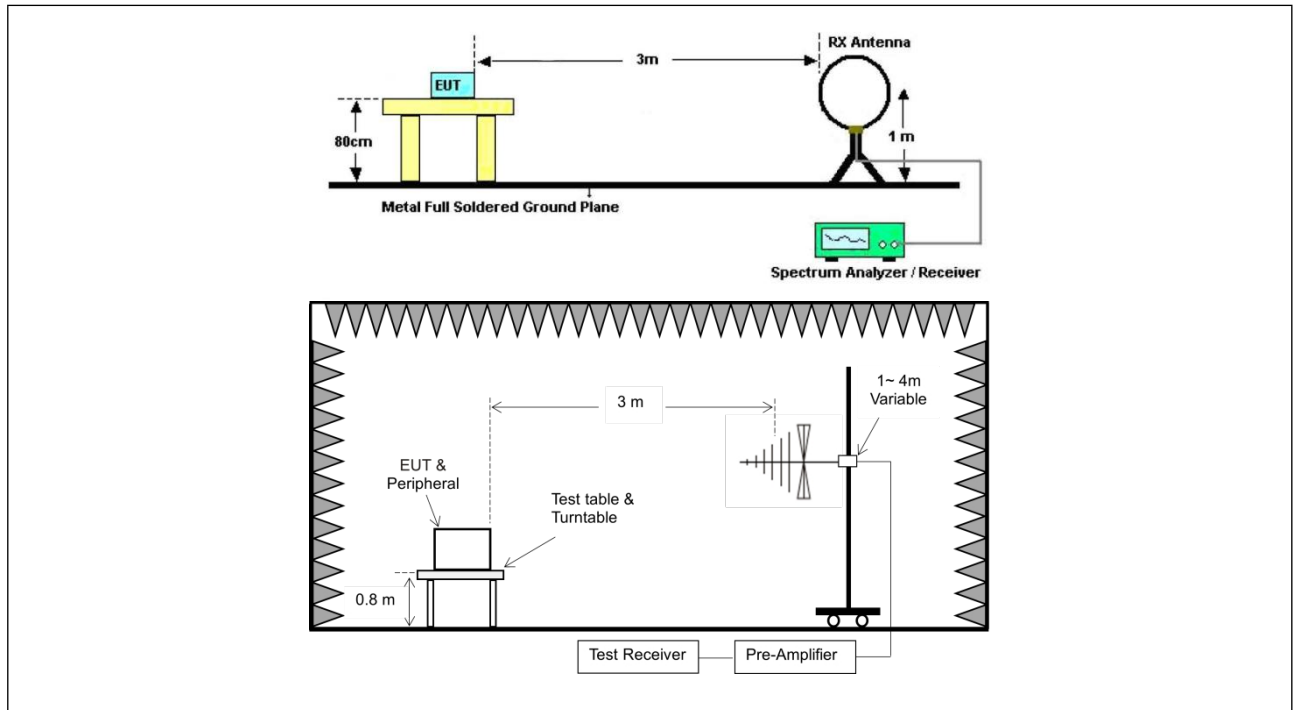
### 3. Emissions in restricted frequency bands (below 1GHz)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                               |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement: | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                               |
| Test Limit:       | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Field strength (microvolts/meter) | Measurement distance (meters) |
|                   | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2400/F(kHz)                       | 300                           |
|                   | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24000/F(kHz)                      | 30                            |
|                   | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30                                | 30                            |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100 **                            | 3                             |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 150 **                            | 3                             |
|                   | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200 **                            | 3                             |
|                   | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 500                               | 3                             |
|                   | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                   |                               |
| Test Method:      | ANSI C63.10-2020 section 6.6.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                               |
| Procedure:        | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |

#### 3.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:             | <p>1: 802.11b mode: Keep the EUT in 802.11b transmitting mode.</p> <p>2: 802.11g mode: Keep the EUT in 802.11g transmitting mode.</p> <p>3: 802.11n(HT20) mode: Keep the EUT in 802.11n(HT20) transmitting mode.</p> <p>4: 802.11n(HT40) mode: Keep the EUT in 802.11n(HT40) transmitting mode.</p> <p>5: 802.11ax(HEW20): Keep the EUT in 802.11ax(HEW20) transmitting mode.</p> <p>6: 802.11ax(HEW40): Keep the EUT in 802.11ax(HEW40) transmitting mode.</p> |

### 3.2. Test Setup



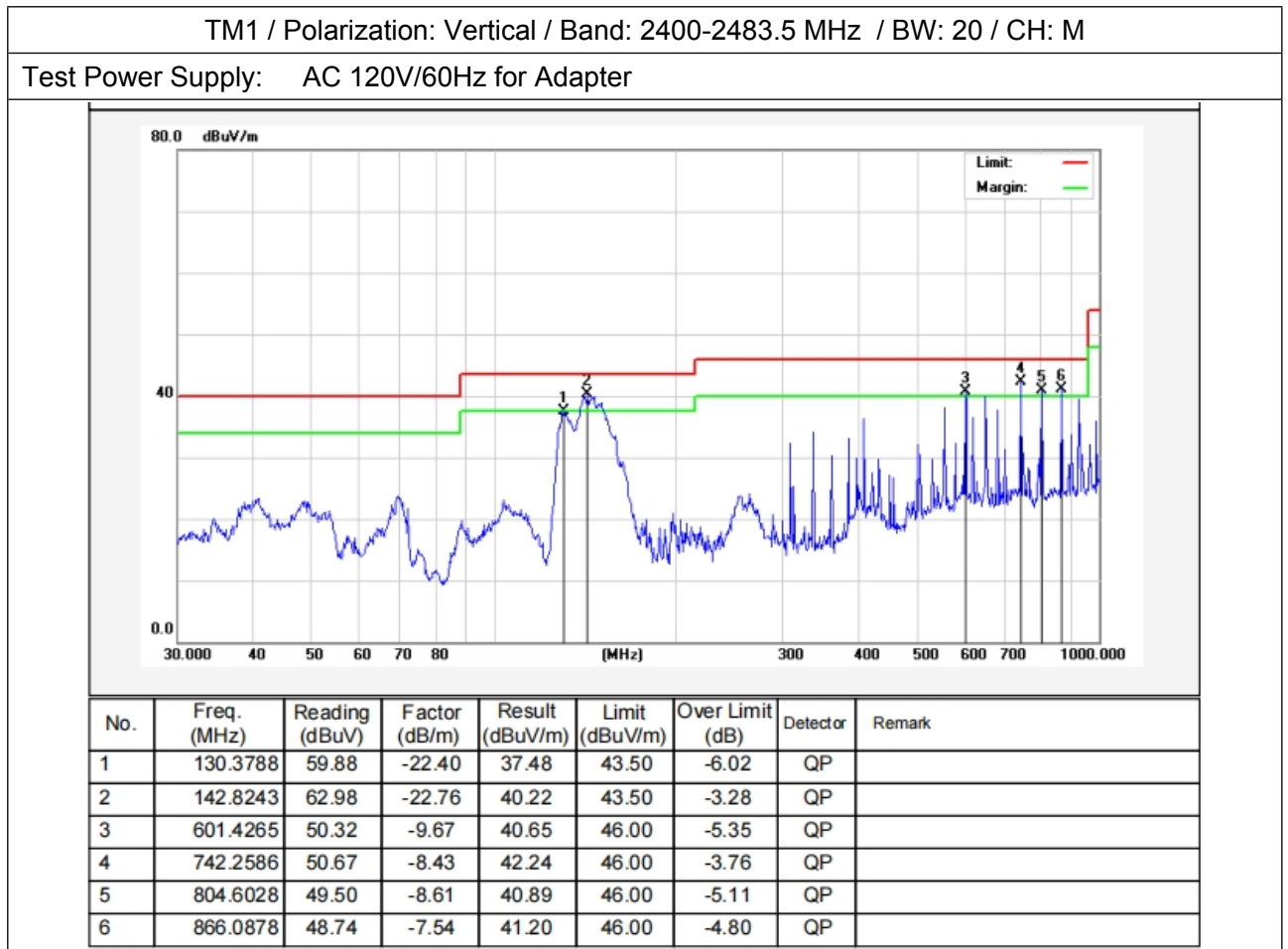
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|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 22.5 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



Note:

1. Only record the worst data in the report.
2.  $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$ ;  
 $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----