

**47 CFR PART 15 SUBPART C TEST REPORT**

**for**

**Mini Door Contact**

**Model No.: MDC-8**

**FCC ID: GX9MDC8F1919**

**of**

**Applicant: CLIMAX TECHNOLOGY CO., LTD.**

**Address: No. 258, Sinhu 2nd Rd., Neihu District,  
Taipei City 114, Taiwan ( R.O.C.)**

**Tested and Prepared**

**By**

**Worldwide Testing Services (Taiwan) Co., Ltd.**

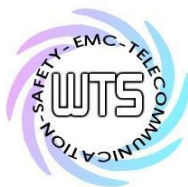
**FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037**

**Industry Canada filed test laboratory Reg. No.: 20037, 31634**



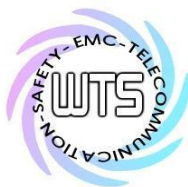
**Report No.: W6M22505-24392-C-1**

6F., No. 58, Ln. 188, Rueiguang Rd., Neihu Dist., Taipei City , Taiwan (R.O.C.)  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



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## **1 General Information**

### **1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

### **Tester:**

June 04, 2025

Kent Lin

Date

WTS-Lab.

Name

Signature

### **Technical responsibility for area of testing:**

June 04, 2025

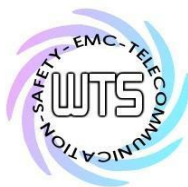
Kevin Wang

Date

WTS

Name

Signature



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

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## **1.2 Testing laboratory**

### **1.2.1 Location**

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,  
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber/Conducted Emission

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,  
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

### **1.2.2 Details of accreditation status**

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

**Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :**

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

## **1.3 Details of approval holder**

Name: CLIMAX TECHNOLOGY CO., LTD.

Street: No. 258, Sinhu 2nd Rd., Neihu District,

Town: Taipei City 114,

Country: Taiwan ( R.O.C.)

## **1.4 Application details**

Date of receipt of test item: May 07, 2025

Date of test: from May 08, 2025 to May 20, 2025



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## **1.5 General information of Test item**

Type of test item: Mini Door Contact

Model number: MDC-8

Multi-listing model number: ./.

Sample no.: #01

### **Technical data**

Frequency band: 918.0375-924.48 MHz

| Mode | Frequency (MHz) | Power (dBm) |
|------|-----------------|-------------|
| 900M | 918.0375        | 10.30       |
|      | 921.98          | 10.23       |
|      | 924.48          | 10.19       |

Power supply: Battery 3Vd.c.

Operation modes: Half-duplex

Modulation type: FSK

Antenna type: PCB Antenna

Antenna gain: -3.08dBi

Host device: none

Classification:

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Fixed Device                                 | <input checked="" type="checkbox"/> |
| Mobile Device (Human Body distance > 20cm)   | <input type="checkbox"/>            |
| Portable Device (Human Body distance < 20cm) | <input type="checkbox"/>            |
| Modular Radio Device                         | <input type="checkbox"/>            |

### **Manufacturer: (if applicable)**

Name: ./.

Street: ./.

Town: ./.

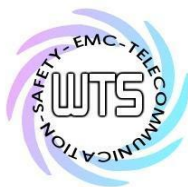
Country: ./.

## **1.6 Test standards**

47 CFR PART 15 SUBPART C § 15.247 (2023-10)

## **1.7 Test procedure**

ANSI C63.10:2013



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## **2 Technical test**

### **2.1 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

**or**

The deviations were ascertained in the course of the tests performed. ☐

### **2.2 Test environment**

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply: Battery 3Vd.c.

Extreme conditions parameters: test voltage : -- extreme  
min : -- V  
max : -- V

| Test item Name                                                                                                                                                                            | Uncertainty                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estimation Result of Uncertainty of Conducted Emission<br>(Power Line Conducted Emission)                                                                                                 | Expanded Uncertainty :<br>AMN : 0.94 dB<br>Voltage probe : 1.21 dB<br>Include Pulse Limiter : 1.5 dB                   |
| Estimation Result of Uncertainty of Radiated Emission(3M-966A)<br>(Transmitter Radiated Emissions in restricted Bands, Spurious<br>emissions (tx), Radiated Emissions from Receiver Part) | Expanded Uncertainty :<br>0.009-30 MHz : 1.85 dB<br>30-1000 MHz : 3.92 dB<br>1-18 GHz : 3.19 dB<br>18-40 GHz : 1.90 dB |
| Estimation Result of Uncertainty of Bandwidth Measurement<br>(20 dB Bandwidth)                                                                                                            | Expanded Uncertainty : 0.37 kHz                                                                                        |
| Estimation Result of Uncertainty of Conducted Output Power<br>Measurement (Peak Output Power (transmitter))                                                                               | Expanded Uncertainty : 1.63 dB                                                                                         |
| Estimation Result of Uncertainty of Band Edge Measurement<br>(Band-edge Compliance of RF Emissions)                                                                                       | Expanded Uncertainty : 0.63 dBc                                                                                        |
| Estimation Result of Uncertainty of Frequency Separation<br>Measurement (Carrier Frequency Separation, Number of Hopping<br>Frequencies)                                                  | Expanded Uncertainty : 554.14 Hz                                                                                       |
| Estimation Result of Uncertainty of Duty Cycle Measurement<br>(Time of Occupancy (Dwell Time))                                                                                            | Expanded Uncertainty : 0.18 ms                                                                                         |

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



# ***Worldwide Testing Services(Taiwan) Co., Ltd.***

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## **2.3 Test Equipment List**

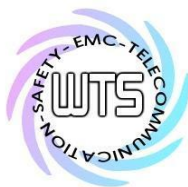
MaxOutput Power&20DB BANDWIDTH&BANDEDGE&

FREQUENCY SEPARATION&NUMBER OF HOPPING&DWELL TIME

| Code No.        | Test equipment    | Mode No.                    | Serial No. | Brand        | Cal. Date | Next Cal. Date |
|-----------------|-------------------|-----------------------------|------------|--------------|-----------|----------------|
| ETSTW-RE 050    | Attenuator 10dB   | 50HF-010-1                  | None       | JFW          | 2025/2/14 | 2026/2/13      |
| ETSTW-RE 055    | SPECTRUM ANALYZER | FSU 26                      | 200074     | R&S          | 2025/3/5  | 2026/3/4       |
| ETSTW-RE 099    | DC Block          | 50DB-007-1                  | None       | JFW          | 2025/2/14 | 2026/2/13      |
| ETSTW-Cable 030 | Microwave Cable   | SUCOFLEX 104<br>(S_Cable 9) | 279067     | HUBER+SUHNER | 2025/2/14 | 2026/2/13      |

## **Spurious emissions**

| Code No.        | Test equipment                         | Mode No.                  | Serial No.     | Brand           | Cal. Date                             | Next Cal. Date |
|-----------------|----------------------------------------|---------------------------|----------------|-----------------|---------------------------------------|----------------|
| ETSTW-RE 153    | Signal Analyzer                        | FSV40                     | 101929         | R&S             | 2024/9/11                             | 2025/9/10      |
| ETSTW-RE 154    | EMI Test Receiver                      | ESR3                      | 102829         | R&S             | 2025/2/14                             | 2026/4/8       |
| ETSTW-RE 160    | Amplifier Module                       | CHC 3                     | None           | WTS             | 2024/7/12                             | 2025/7/11      |
| ETSTW-RE 177    | TRILOG<br>Broadband<br>Antenna         | VULB 9168<br>&EMCI-N-6-06 | 01380&AT-06007 | SCHWARZBECK&EMC | 2025/3/10                             | 2026/3/9       |
| ETSTW-RE 178    | Double Ridged<br>Guide Horn<br>Antenna | DRH18-E                   | 210505A18ES    | RFSPIN          | 2025/3/7                              | 2026/3/6       |
| ETSTW-Cable 077 | SMA type cable<br>(10m)                | EMC104-SM-SM-<br>10000    | 230511         | EMCI            | 2024/7/12                             | 2025/7/11      |
| ETSTW-Cable 084 | SMA type cable<br>(1m)                 | SF104-11SMA-1000          | 816477/4       | HONOVA          | 2024/7/12                             | 2025/7/11      |
| ETSTW-Cable 089 | SMA type cable<br>(2m)                 | SF104-11SMA-2000          | SN 811889/4    | HUBER+SUHNER    | 2024/7/12                             | 2025/7/11      |
| WTSTW-SW 002    | EMI TEST<br>SOFTWARE                   | EZ EMC                    | None           | Farad           | Version ETS-03A1<br>Version EMEC-3A1+ |                |



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## **2.4 General Test Procedure**

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBμV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

|            |                                                         |
|------------|---------------------------------------------------------|
| Freq (MHz) | METER READING + ACF + CABLE LOSS (to the receiver) = FS |
| 33         | 20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m            |

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

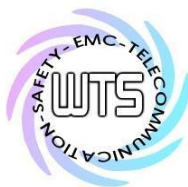
Average = Peak + Duty Factor

Duty Factor =  $20 \log (\text{dwell time}/T)$

$T = 100\text{ms}$  when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

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## **3 Test results (enclosure)**

| TEST CASE                                            | Para. Number     | Required                            | Test passed                         | Test failed              |
|------------------------------------------------------|------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power                                    | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Equivalent radiated Power                            | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating  | 15.247(d):15.209 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions conducted – Transmitter operating | 15.247           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Carrier Frequency Separation                         | 15.247(a) (1)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Number of Hopping Frequencies                        | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Time of Occupancy (Dwell Time)                       | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20 dB Bandwidth                                      | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Band-edge Compliance of RF Emission                  | 15.247(d)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission from Digital Part                  | 15.109           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Power Line Conducted Emission                        | 15.207(a)        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |

The follows is intended to leave blank.



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## 3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

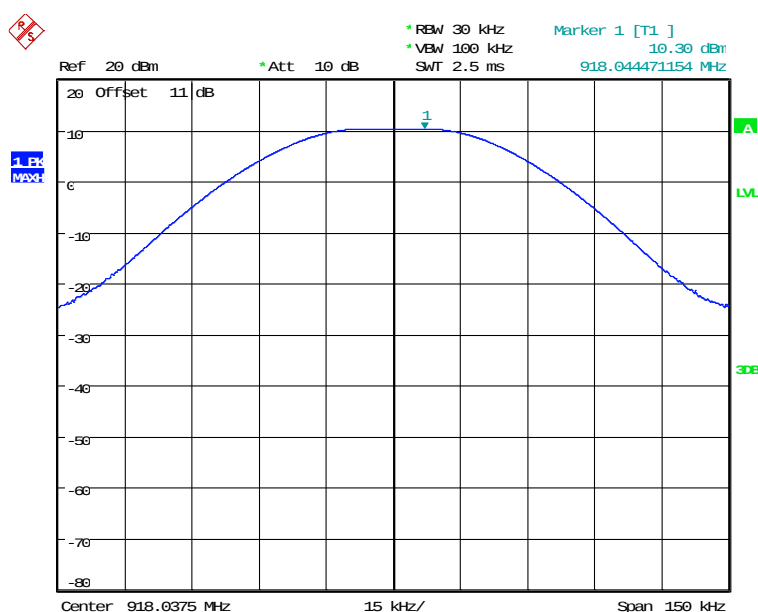
Test date: May 16, 2025

Temperature: 25.7 °C

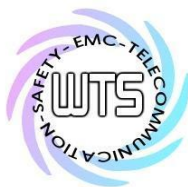
Humidity: 46.2 %

Tester: Sky

| Band | Channel      | Power (dBm) | Limit (dBm) |
|------|--------------|-------------|-------------|
| 900M | 918.0375 MHz | 10.30       | 30          |
|      | 921.98 MHz   | 10.23       | 30          |
|      | 924.48 MHz   | 10.19       | 30          |

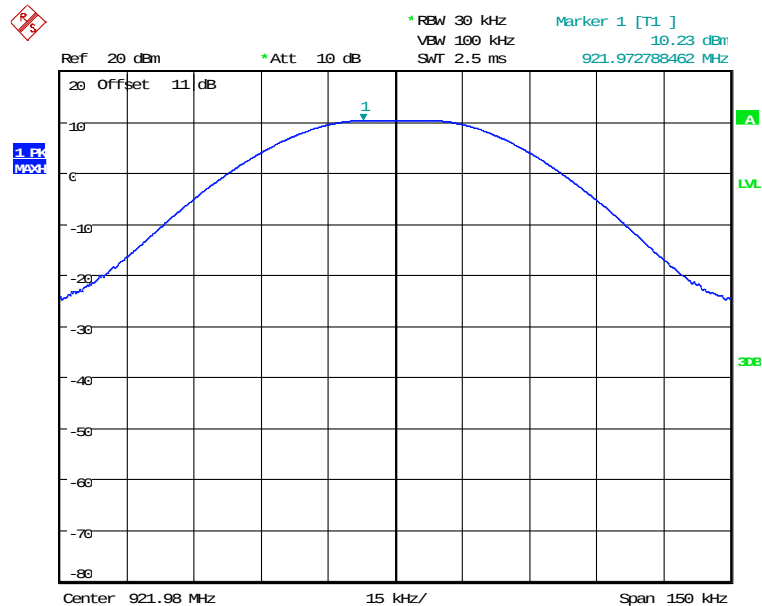


MAXOUTPUT POWER 918.0375MHz  
Date: 16.MAY.2025 20:45:42

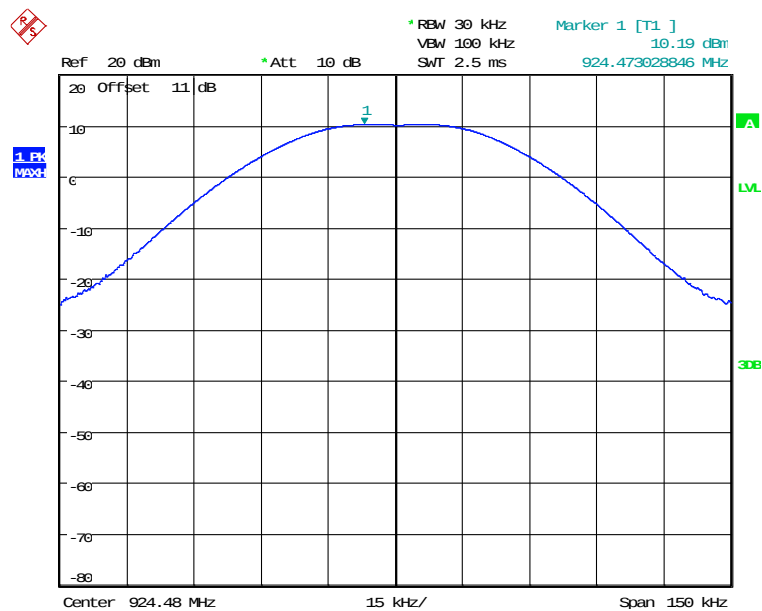


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MAX OUTPUT POWER 921.98MHz  
Date: 16.MAY.2025 20:58:58



MAX OUTPUT POWER 924.48MHz  
Date: 16.MAY.2025 21:04:47



## **Worldwide Testing Services(Taiwan) Co., Ltd.**

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Limits:

| Frequency (MHz) | Number of hopping channels |           |              |              |
|-----------------|----------------------------|-----------|--------------|--------------|
|                 | $\geq 75$                  | $\geq 50$ | $49 \geq 25$ | $74 \geq 15$ |
| 902-928         | --                         | 30 dBm    | 24 dBm       | --           |
| 2400-2483.5 MHz | 30 dBm                     | --        | --           | 21 dBm       |
| 5725-5850 MHz   | 30 dBm                     | --        | --           | --           |

In case of employing transmitter antennas having antenna gain >dBi and using fixed point-to point operation consider §15.247 (b)(4).



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## **3.2 Transmitter Radiated Emissions in restricted Bands**

FCC Rules: 15.247 (d), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26000 MHz.

For radiated emission tests, the analyzer setting was as followings:

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

| Frequency of Emission<br>(MHz) | Field strength<br>(microvolts/meter) | Field Strength<br>(dB microvolts/meter) |
|--------------------------------|--------------------------------------|-----------------------------------------|
| 30 – 88                        | 100                                  | 40.0                                    |
| 88 – 216                       | 150                                  | 43.5                                    |
| 216 – 960                      | 200                                  | 46.0                                    |
| Above 960                      | 500                                  | 54.0                                    |

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.” Here the correction was added to the limit instead subtracted from the reading.

Duty cycle correction =  $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

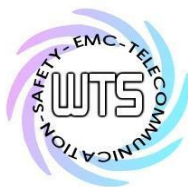
54.0dB $\mu$ V/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dB $\mu$ V/m + 20 dB= 74 dB $\mu$ V/m

Explanation: See attached diagrams in appendix.



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## **3.3 Spurious emissions (tx)**

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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))

**SAMPLE CALCULATION OF LIMIT.** All results will be updated by an automatic measuring system in accordance to point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

## **Summary table with radiated data of the test plots**

Model: MDC-8 Date: --  
 Mode: -- Temperature: -- °C Engineer: --  
 Polarization: -- Humidity: -- %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

| Frequency (MHz) | Reading (dBuV) |      | Factor (dB) Corr. | Result (dBuV/m) |      | Limit (dBuV/m) Peak Ave. |    | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|-----------------|------|--------------------------|----|-------------|---------------------|----------------|
|                 | Peak           | Ave. |                   | Peak            | Ave. | --                       | -- |             |                     |                |
| --              | --             | --   | --                | --              | --   | --                       | -- | --          | --                  | --             |
| --              | --             | --   | --                | --              | --   | --                       | -- | --          | --                  | --             |



## **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919

- Note**
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
  2. **The formula of measured value as: Test Result = Reading + Correction Factor**
  3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
  4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
  5. **After evaluated, the test result in this report adopt the worst case to measure, please see attached diagrams in appendix.**

All other not noted test plots do not contain significant test results in relation to the limits.

**TEST RESULT (Transmitter):** The unit DOES meet the FCC requirements.



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## 3.4 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

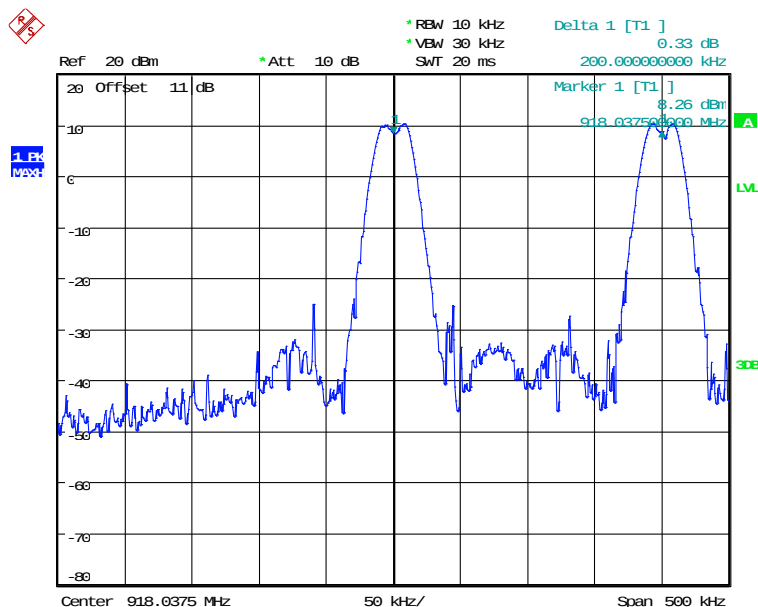
According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.

Test date: May 16, 2025

Temperature: 25.7 °C

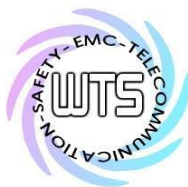
Humidity: 46.2 %

Tester: Sky



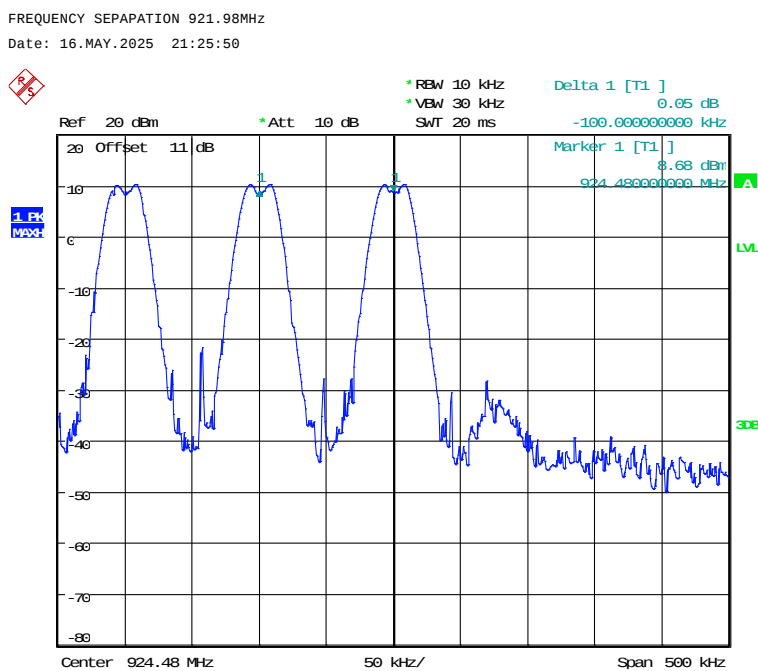
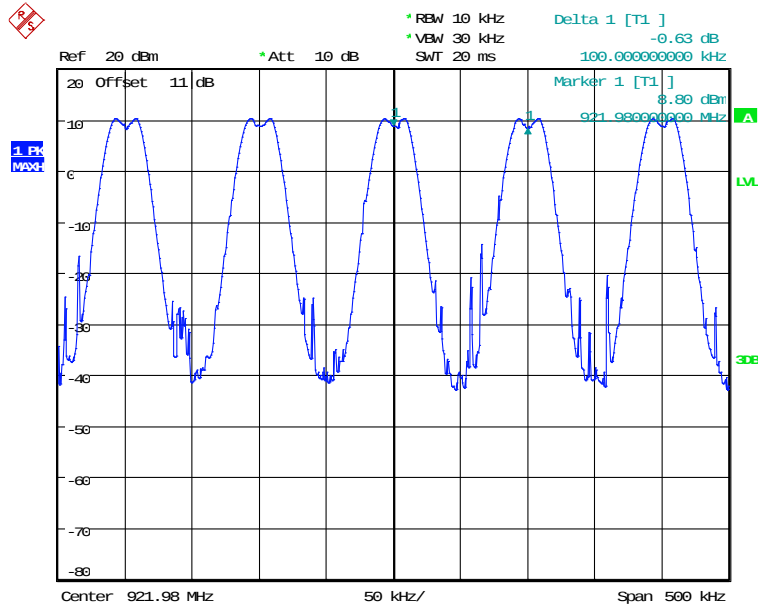
FREQUENCY SEPARATION 918.0375MHz

Date: 16.MAY.2025 21:22:03



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919



FREQUENCY SEPARATION 924.48MHz  
Date: 16.MAY.2025 21:28:30

## Limits:

| Frequency (MHz)            | 20 dB bandwidth < 25 kHz | 20 dB bandwidth > 25 kHz |
|----------------------------|--------------------------|--------------------------|
| 902-928                    | 25 kHz                   | 20 dB bandwidth          |
| 2400-2483.5<br>5725-5850.0 | 25 kHz                   | 20 dB bandwidth          |



Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919

## 3.5 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

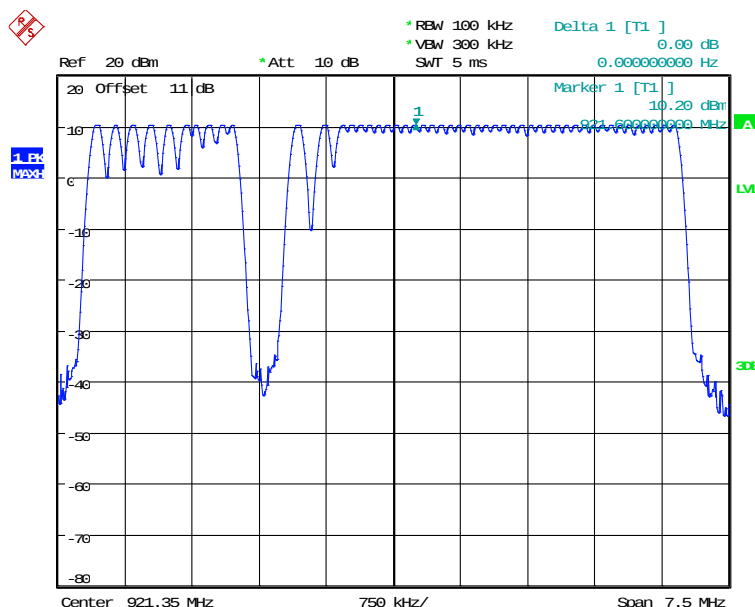
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

Test date: May 16, 2025

Temperature: 25.7 °C

Humidity: 46.2 %

Tester: Sky



NUMBER OF HOPPING  
Date: 16.MAY.2025 21:31:50

### Limits:

| Frequency (MHz) | 20dB Bandwidth      | Number of Channels |
|-----------------|---------------------|--------------------|
| 902-928 MHz     | Bandwidth < 250 kHz | ≥ 50               |
|                 | Bandwidth ≥ 250 kHz | ≥ 25               |
| 2400-2483.5     | not defined         | 15                 |
| 5725-5850.0 MHz | 1 MHz               | 75                 |



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## **3.5.1 Pseudorandom Frequency Hopping Sequence**

The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

## **3.5.2 Coordination of hopping sequences to other transmitters**

According to the Bluetooth core specification such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

## **3.5.3 System Receiver Hopping Capability**

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## 3.6 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

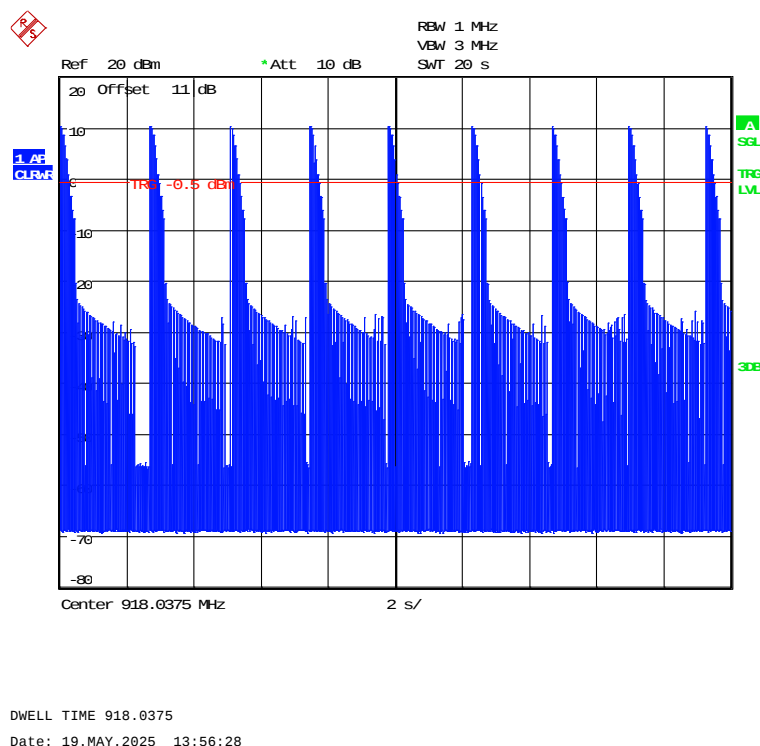
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

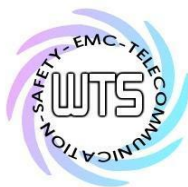
Test date: May 19, 2025

Temperature: 26.0 °C

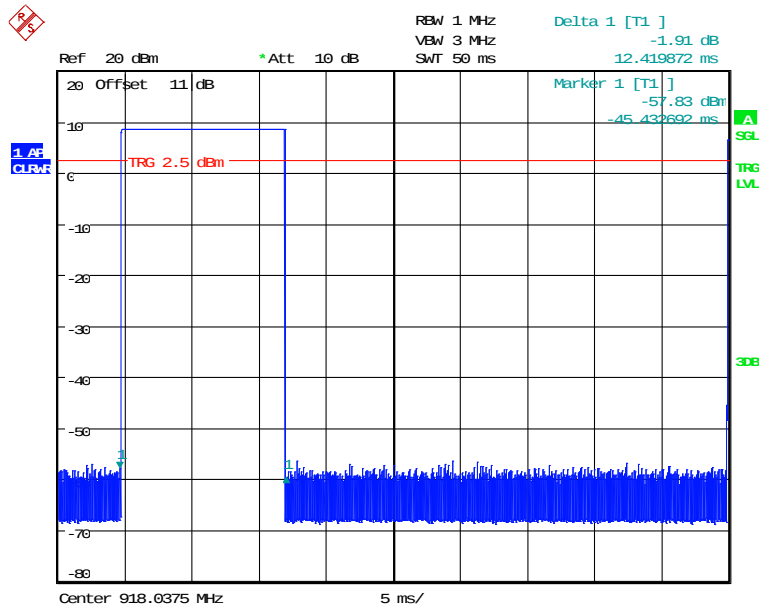
Humidity: 49.0 %

Tester: Sky

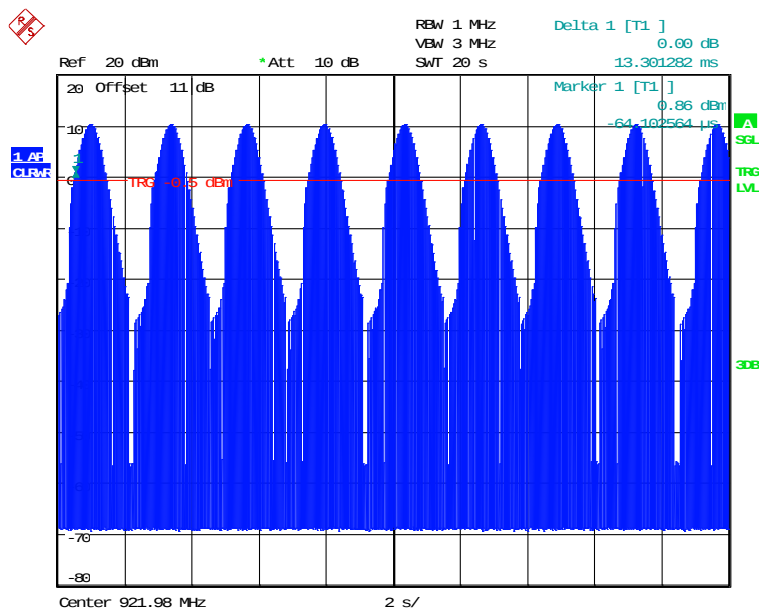




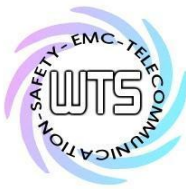
Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919



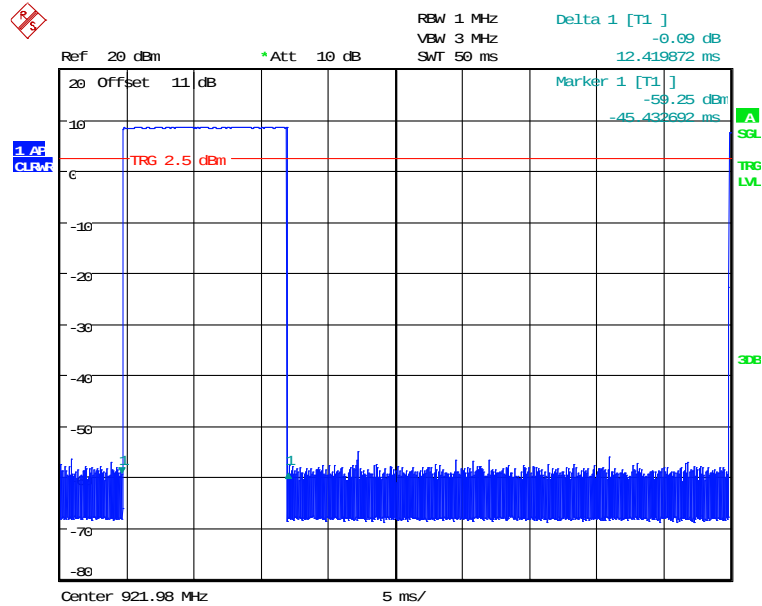
DWELL TIME 918.0375MHz ( 12.419ms \* 9events = 111.771ms)  
Date: 19.MAY.2025 14:16:15



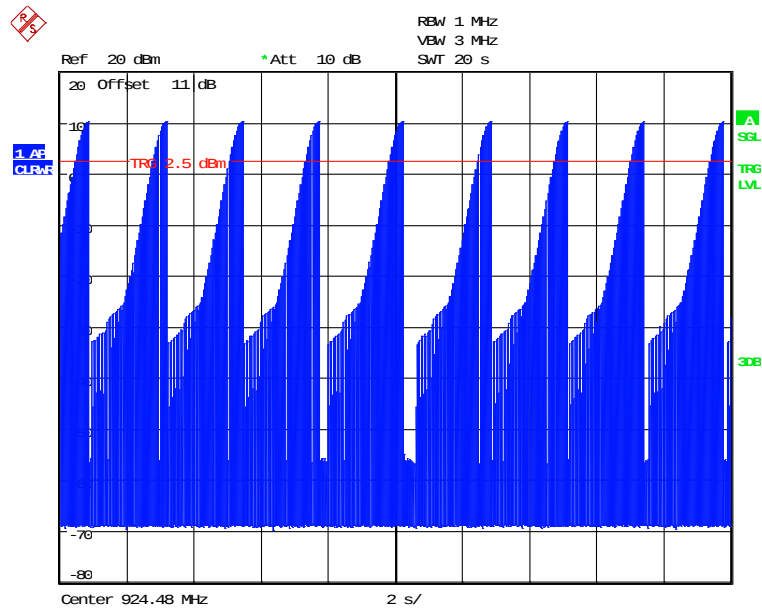
DWELL TIME 921.98MHz  
Date: 19.MAY.2025 14:03:02



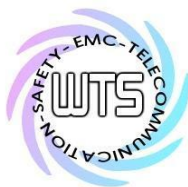
Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919



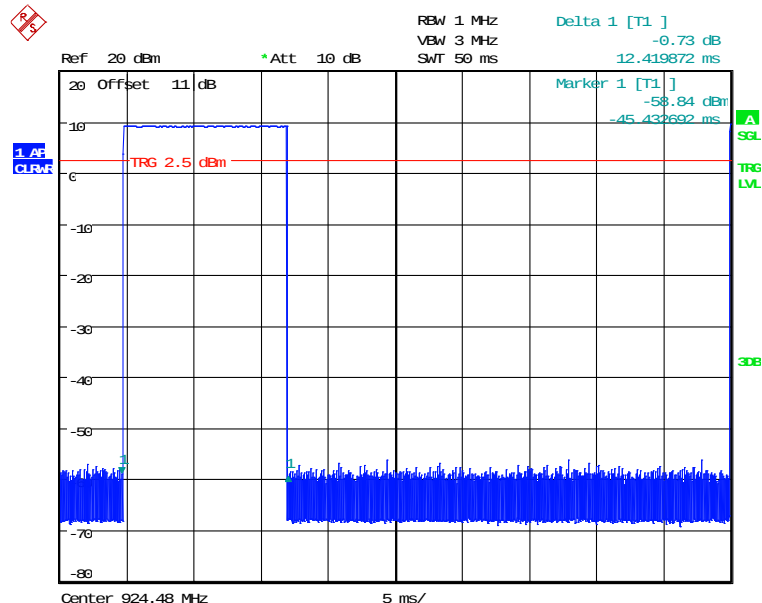
DWELL TIME 921.98MHz ( 12.419ms \* 9events = 111.771ms)  
Date: 19.MAY.2025 14:19:20



DWELL TIME 924.48MHz  
Date: 19.MAY.2025 14:50:13



Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919



DWELL TIME 924.48MHz ( 12.419ms \* 9events = 111.771ms)  
Date: 19.MAY.2025 14:17:30

**Limits and measurement periods:**

| Frequency (MHz) | Number of channels | Measurement Periode             | Limit |
|-----------------|--------------------|---------------------------------|-------|
| 902 – 928       | $\geq 50$          | 20 s                            | 0.4 s |
|                 | $49 \geq 25$       | 10 s                            | 0.4 s |
| 2400 – 2483.5   | $\geq 15$          | 0.4 s * number of used channels | 0.4 s |
| 5725- 5850      | $\geq 75$          | 30 s                            | 0.4s  |



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## 3.7 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

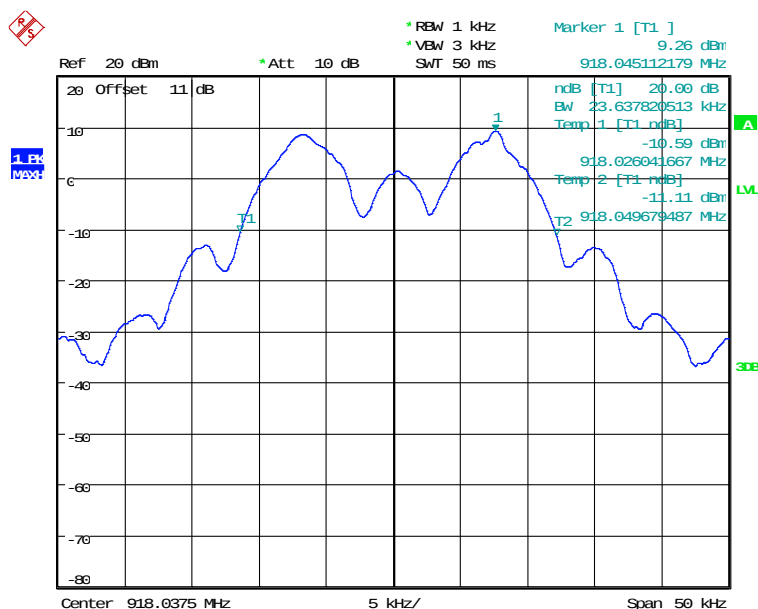
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Test date: May 16, 2025

Temperature: 25.7 °C

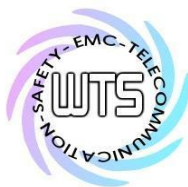
Humidity: 46.2 %

Tester: Sky



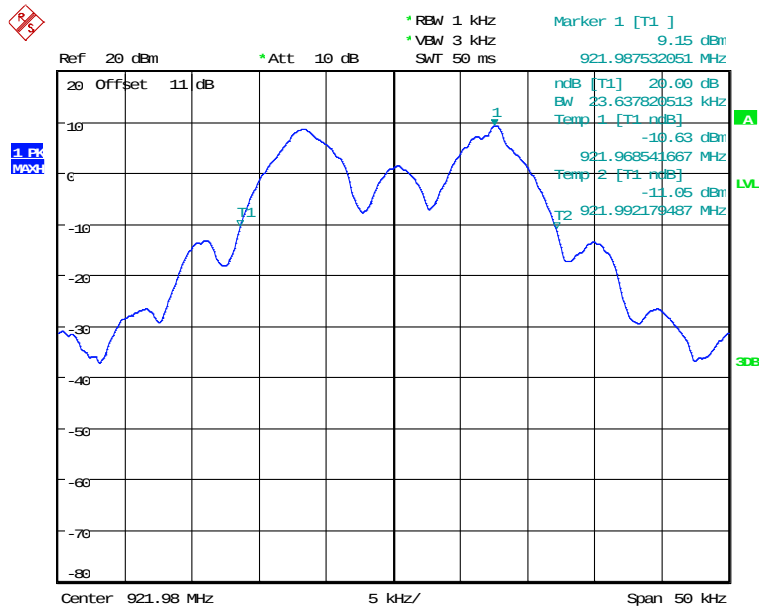
20DB BANDWIDTH 918.0375MHz

Date: 16.MAY.2025 20:47:30

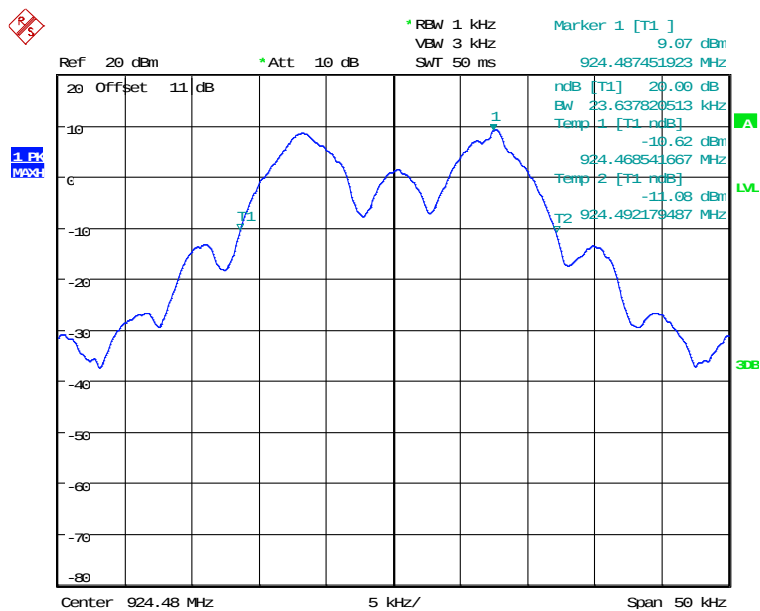


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919



20dB BANDWIDTH 921.98MHz  
Date: 16.MAY.2025 21:00:51



20dB BANDWIDTH 924.48MHz  
Date: 16.MAY.2025 21:06:29



Registration number: W6M22505-24392-C-1

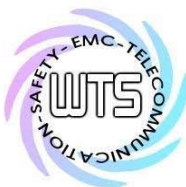
FCC ID: GX9MDC8F1919

**Limits:**

| Frequency (MHz) | Limit          |
|-----------------|----------------|
| 902-928         | $\leq 500$ kHz |
| 2400-2483.5     | not defined    |
| 5725-5850       | $\leq 1$ MHz   |

**3.7.1 System Receiver Input Bandwidth**

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## 3.8 Band-edge Compliance of RF Emissions

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

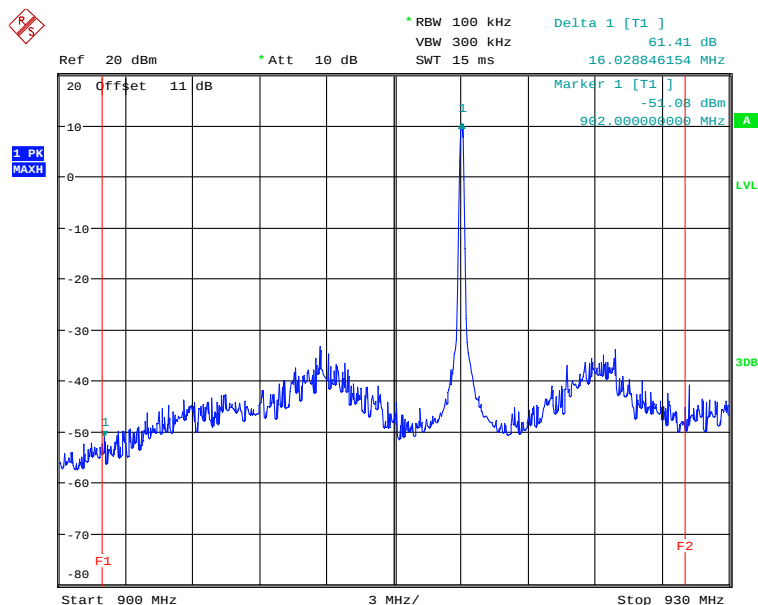
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Test date: May 16, 2025

Temperature: 25.7 °C

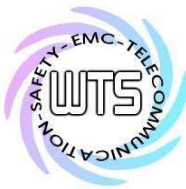
Humidity: 46.2 %

Tester: Sky



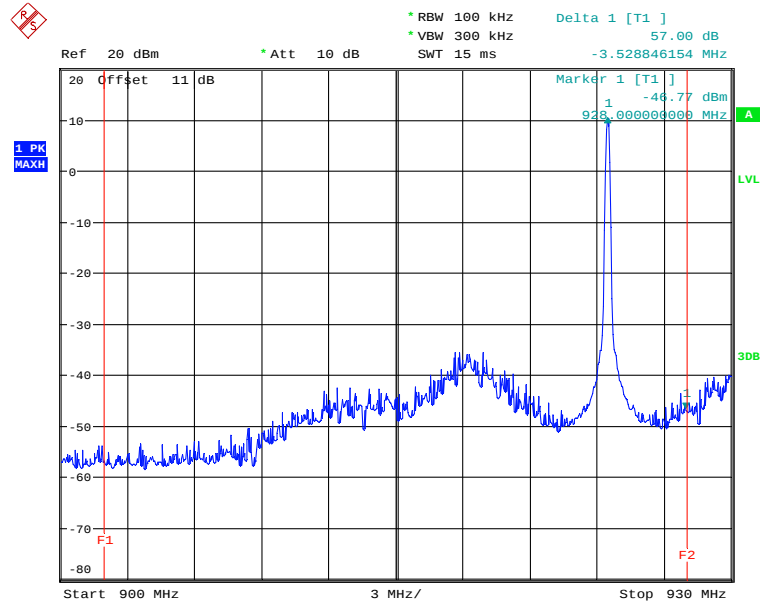
BANDEDGE 918.0375MHz

Date: 16.MAY.2025 20:52:49



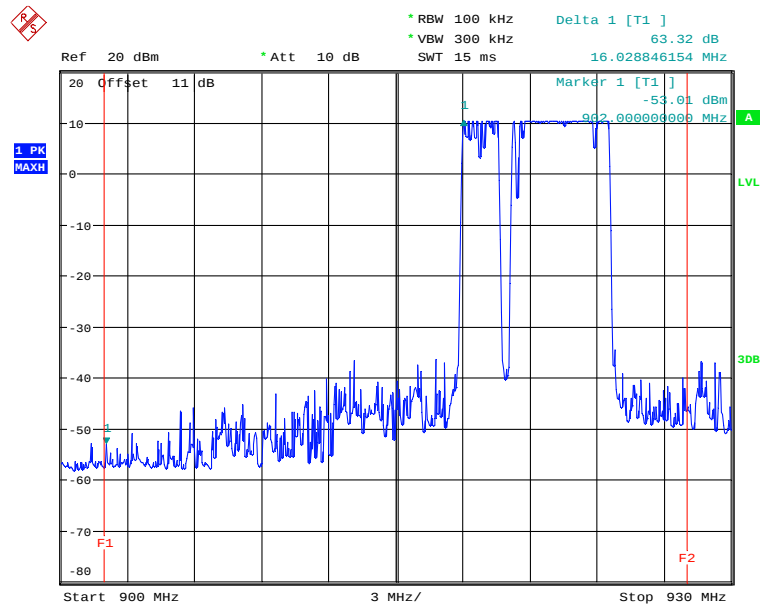
Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919



BANDEDGE 924.48MHz

Date: 16.MAY.2025 21:11:36



BANDEDGE 918.0375MHz HOPPING MODE

Date: 16.MAY.2025 21:18:00



1 Fk  
MAX

Ref 20 dBm \* Att 10 dB

RBW 100 kHz VBW 300 kHz SWT 15 ms

Delta 1 [T1] 56.62 dB  
-3.480769231 MHz

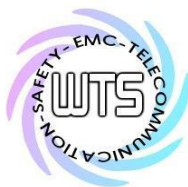
Marker 1 [T1]  
1 -46.42 dBm  
930.000000000 MHz

F1 F2

Start 900 MHz 3 MHz/ Stop 930 MHz

### Limits:

| Frequency (MHz) | Limit   |
|-----------------|---------|
| 902 –928        | - 20 dB |
| 2400 – 2483.5   |         |
| 5725 - 5850     |         |



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

### **3.9 Radiated Emissions from Digital Part**

FCC Rule: 15.109

#### **Summary table with radiated data of the test plots**

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<br>(MHz) | Field Strength<br>(microvolts/meter) | Field Strength<br>(dBmicrovolts/meter) |
|--------------------------------|--------------------------------------|----------------------------------------|
| 30 – 88                        | 100                                  | 40.0                                   |
| 88 – 216                       | 150                                  | 43.5                                   |
| 216 – 960                      | 200                                  | 46.0                                   |
| Above 960                      | 500                                  | 54.0                                   |

Explanation: The test results are listed in the separated test report no.: W6M22505-24392-P-15B.



Registration number: W6M22505-24392-C-1

FCC ID: GX9MDC8F1919

## **3.10 Power Line Conducted Emission**

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

- Note:**
- 1. The formula of measured value as:  $\text{Test Result} = \text{Reading} + \text{Correction Factor}$**
  - 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss**
  - 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
  - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
  - 5. Up Line: QP Limit Line, Down Line: Ave Limit Line.**
  - 6. This test is not required because the EUT is powered by battery.**



Registration number: W6M22505-24392-C-1  
FCC ID: GX9MDC8F1919

## **Appendix**

### **Measurement diagrams**

Spurious Emissions radiated



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File :1

Data :#1

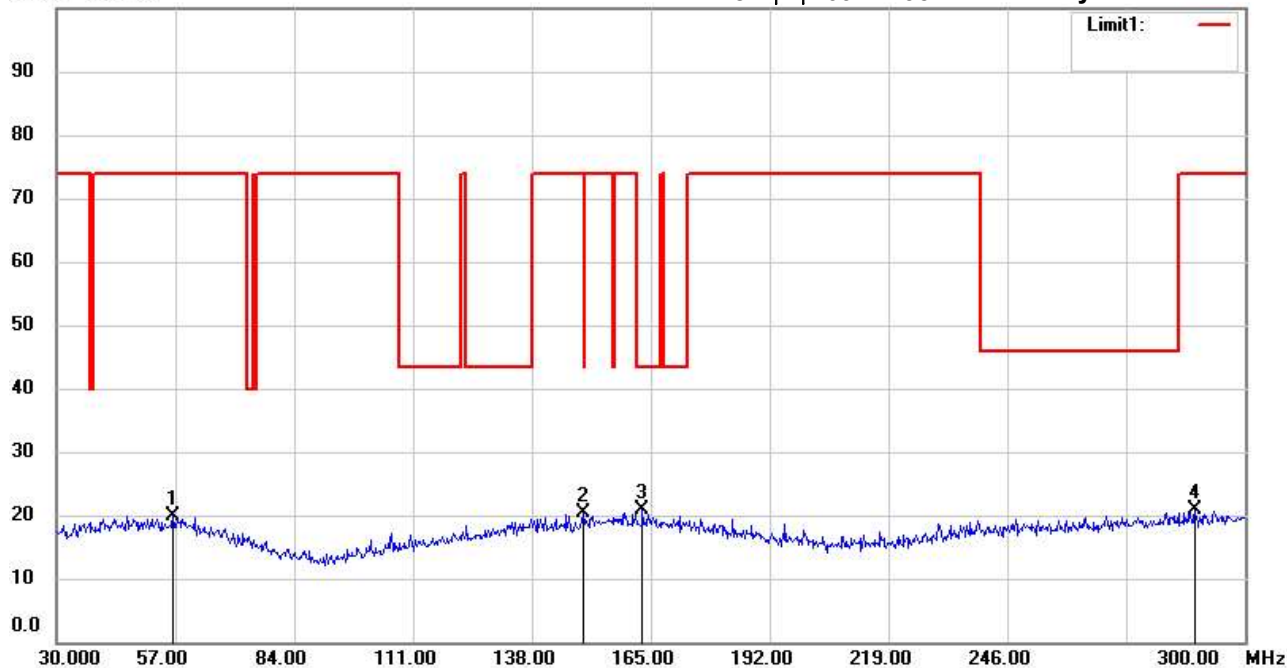
Date: 2025/5/13

Temperature: 25.7 °C

100.0 dBuV/m

Time: 下午 09:12:35

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 56.4600         | 32.59          | peak     | -12.81              | 19.78           | 74.00          | 100          | 0              | -54.22      |         |
|     | 149.6100        | 32.94          | peak     | -12.57              | 20.37           | 74.00          | 100          | 275            | -53.63      |         |
| *   | 163.1100        | 33.43          | peak     | -12.46              | 20.97           | 43.50          | 100          | 235            | -22.53      |         |
|     | 288.6600        | 33.27          | peak     | -12.43              | 20.84           | 74.00          | 100          | 352            | -53.16      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 1

Data : #3

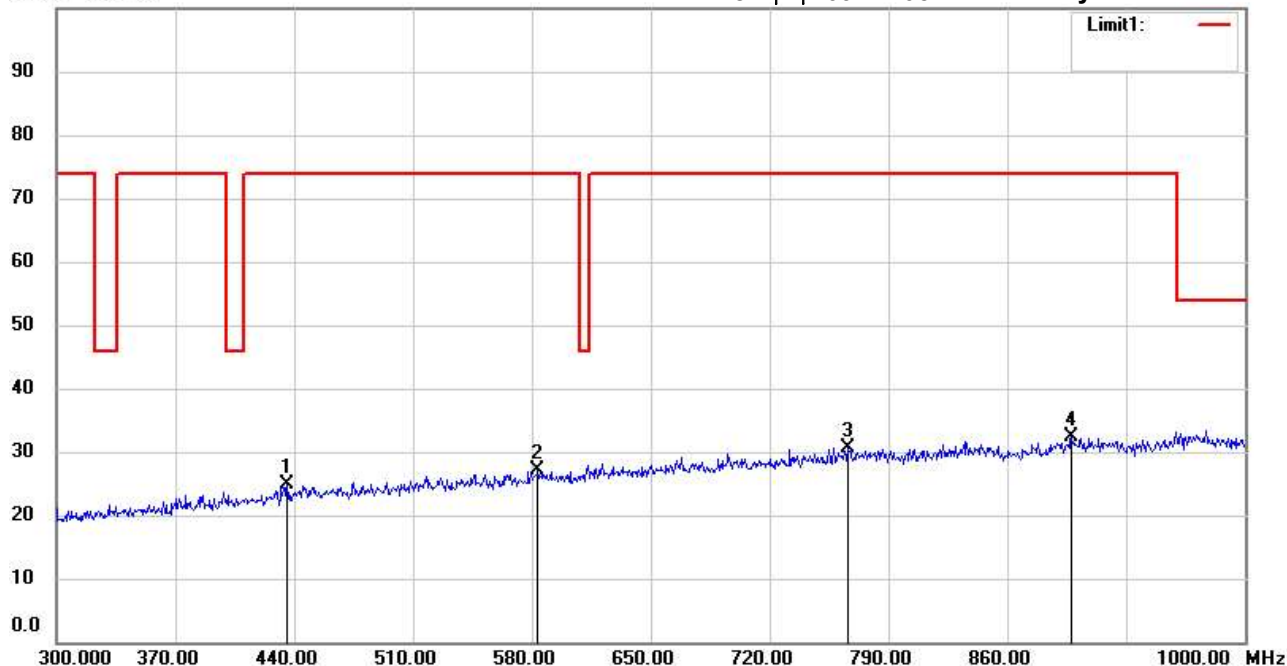
Date: 2025/5/13

Temperature: 25.7 °C

100.0 dBuV/m

Time: 下午 09:14:05

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC Restriction Band 300-1000

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 435.8000        | 33.32          | peak     | -8.56               | 24.76           | 74.00          | 100          | 194            | -49.24      |         |
|     | 583.5000        | 32.67          | peak     | -5.48               | 27.19           | 74.00          | 100          | 72             | -46.81      |         |
|     | 766.2000        | 32.80          | peak     | -2.13               | 30.67           | 74.00          | 100          | 72             | -43.33      |         |
| *   | 897.8000        | 33.51          | peak     | -1.06               | 32.45           | 74.00          | 100          | 145            | -41.55      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File :1

Data :#2

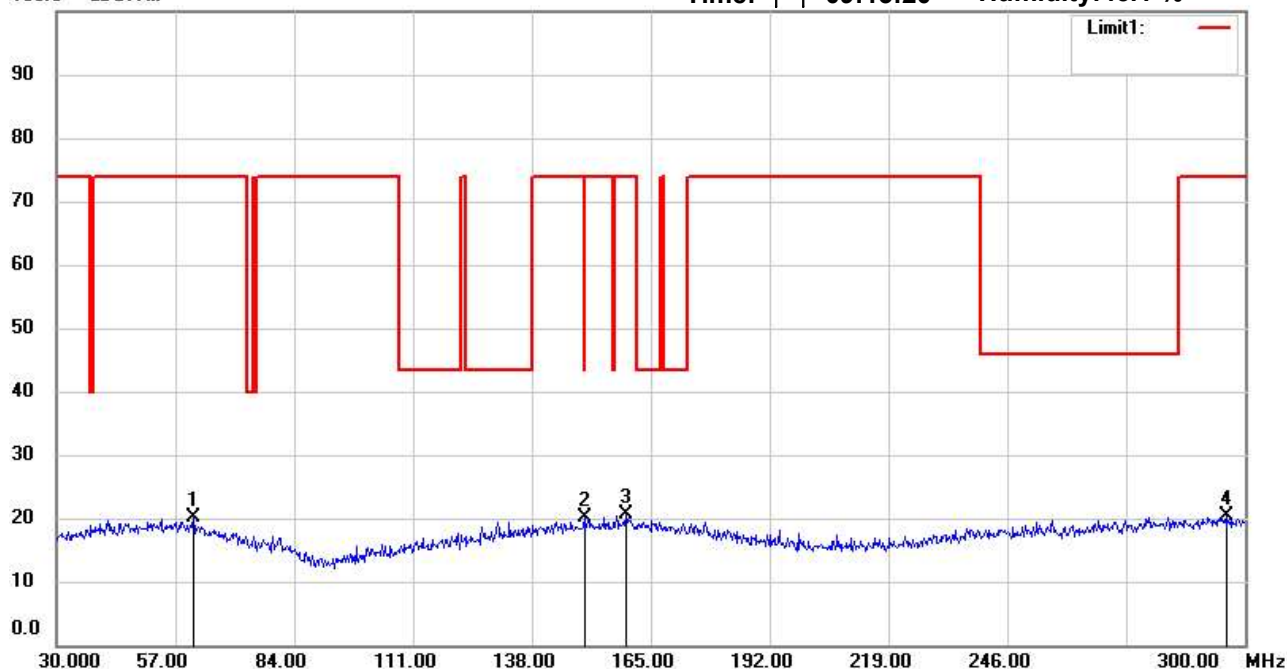
Date: 2025/5/13

Temperature: 25.7 °C

100.0 dBuV/m

Time: 下午 09:13:20

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 61.0500         | 33.25          | peak     | -13.12              | 20.13           | 74.00          | 100          | 281            | -53.87      |         |
|     | 149.8800        | 32.75          | peak     | -12.56              | 20.19           | 74.00          | 100          | 298            | -53.81      |         |
| *   | 159.3300        | 32.76          | peak     | -12.20              | 20.56           | 74.00          | 100          | 359            | -53.44      |         |
|     | 295.6800        | 32.55          | peak     | -12.20              | 20.35           | 74.00          | 100          | 336            | -53.65      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File :1

Data :#4

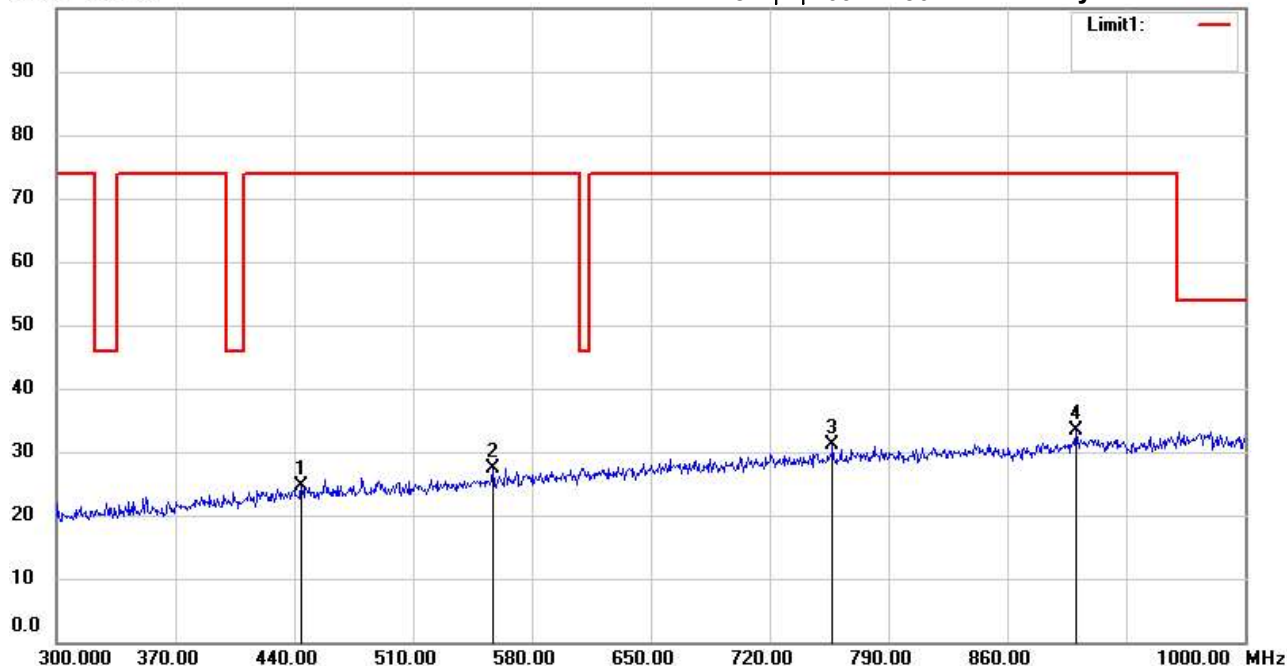
Date: 2025/5/13

Temperature: 25.7 °C

100.0 dBuV/m

Time: 下午 09:14:50

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC Restriction Band 300-1000

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 444.2000        | 32.86          | peak     | -8.35               | 24.51           | 74.00          | 100          | 22             | -49.49      |         |
|     | 556.9000        | 33.71          | peak     | -6.41               | 27.30           | 74.00          | 100          | 195            | -46.70      |         |
|     | 757.1000        | 33.25          | peak     | -2.19               | 31.06           | 74.00          | 100          | 238            | -42.94      |         |
| *   | 900.6000        | 34.44          | peak     | -1.03               | 33.41           | 74.00          | 100          | 233            | -40.59      |         |

\*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #1

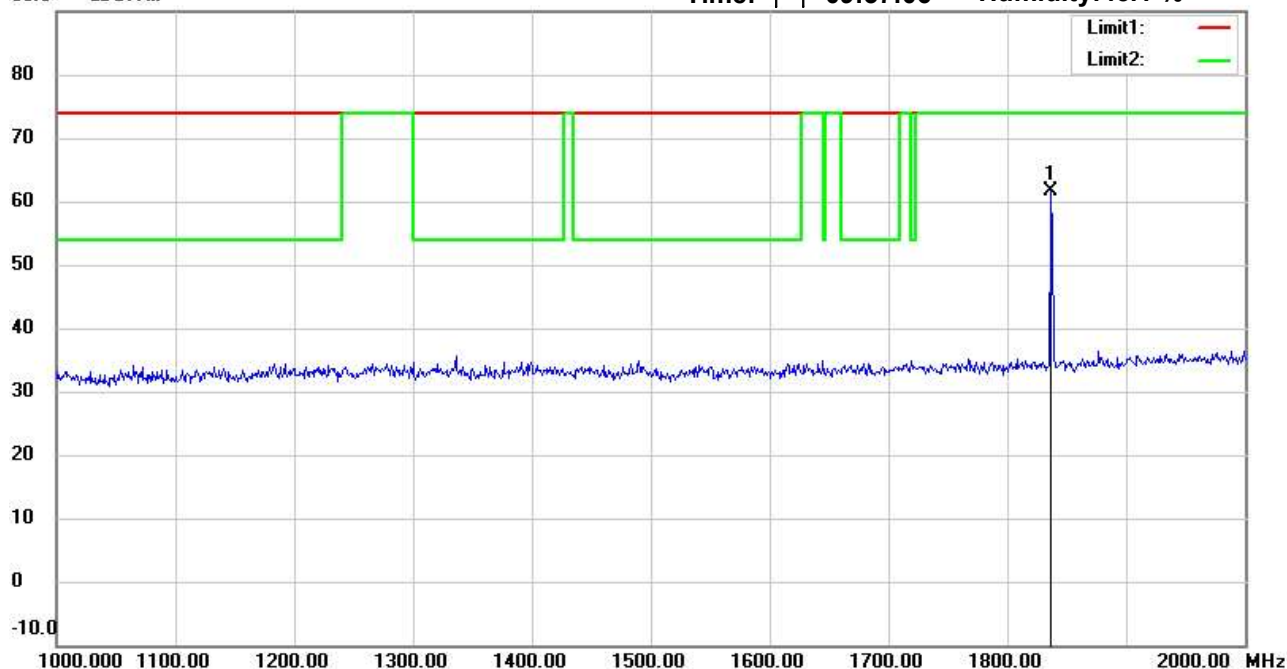
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:37:06

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1837.000        | 68.24          | peak     | -6.55               | 61.69           | 74.00          | 150          | 192            | -12.31      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #5

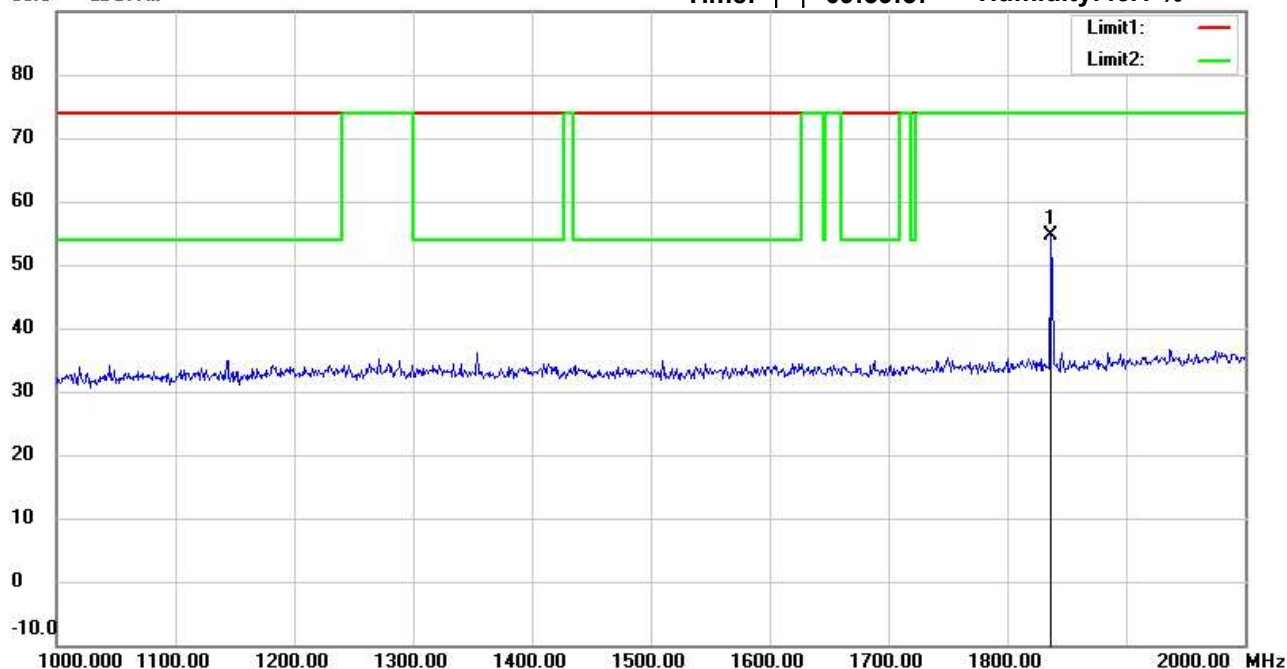
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:39:57

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1837.000        | 61.09          | peak     | -6.55               | 54.54           | 74.00          | 150          | 192            | -19.46      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #2

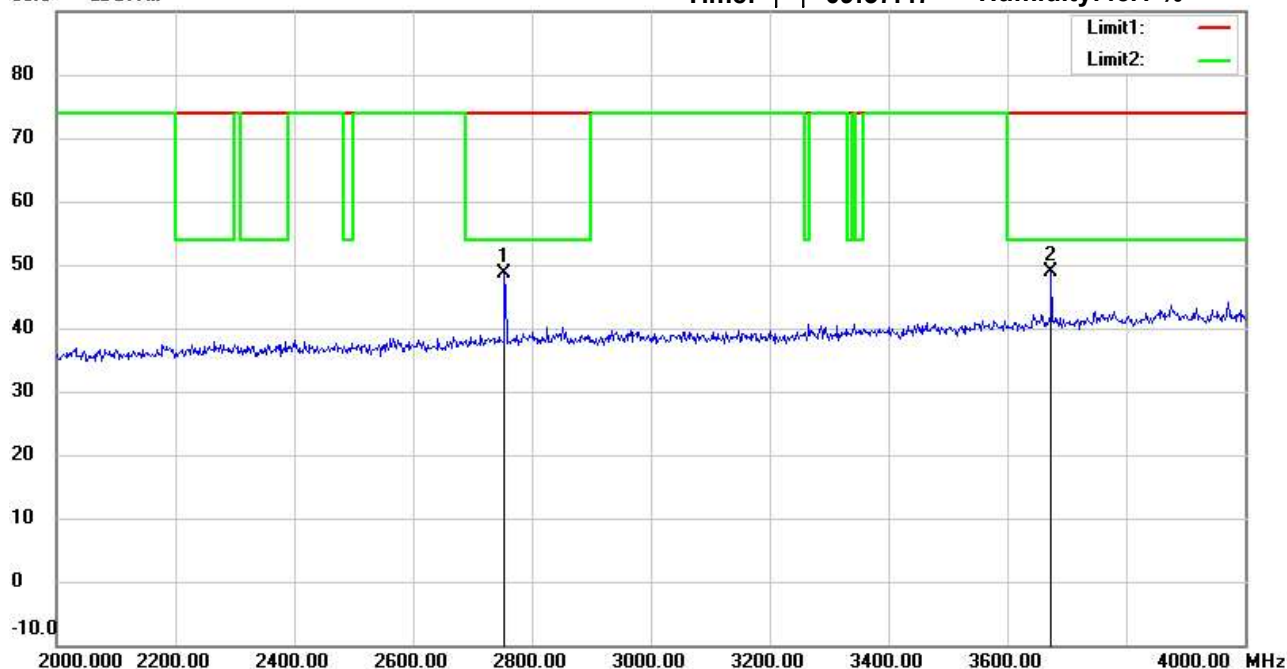
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:37:47

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2754.000        | 51.32          | peak     | -2.73               | 48.59           | 74.00          | 150          | 119            | -25.41      |         |
| *   | 3674.000        | 48.66          | peak     | 0.27                | 48.93           | 74.00          | 150          | 321            | -25.07      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #6

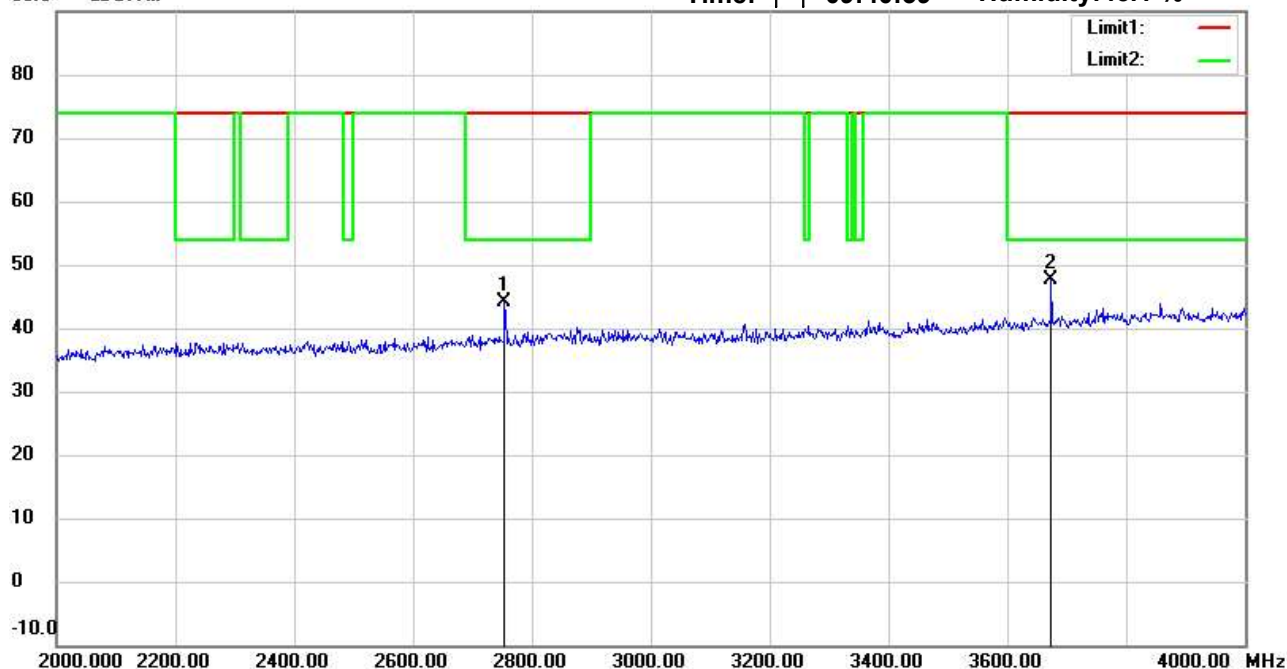
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:40:39

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2754.000        | 46.92          | peak     | -2.73               | 44.19           | 74.00          | 150          | 100            | -29.81      |         |
| *   | 3674.000        | 47.28          | peak     | 0.27                | 47.55           | 74.00          | 150          | 27             | -26.45      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #3

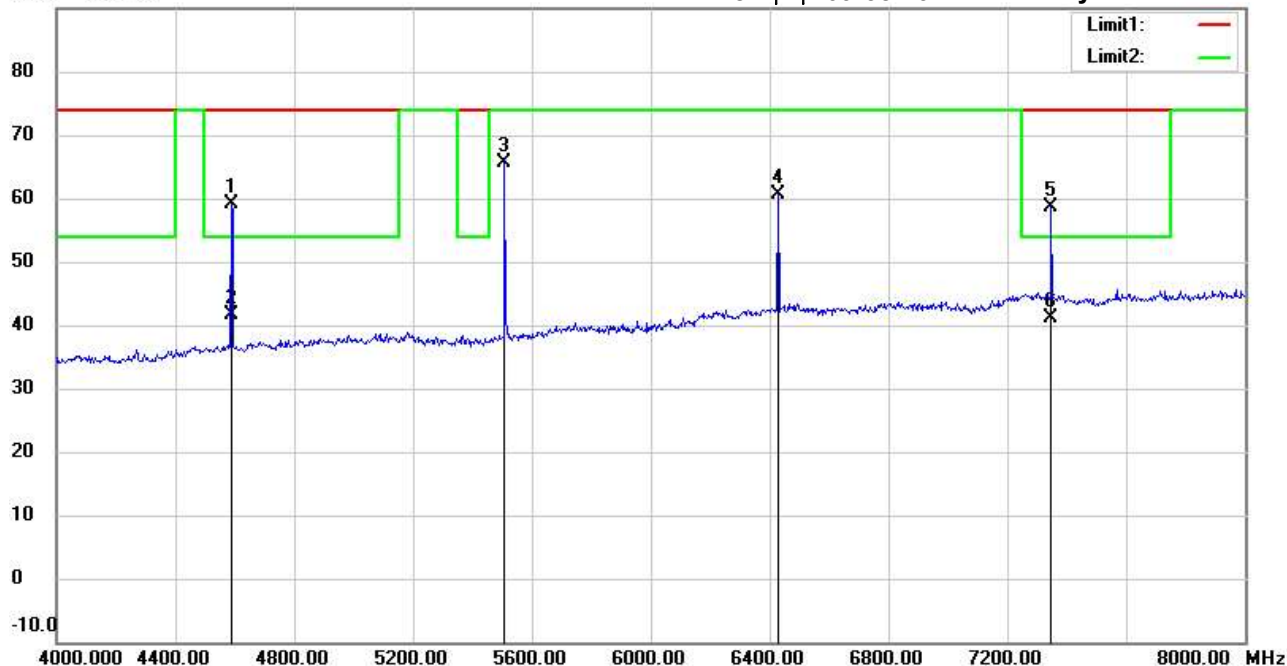
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:38:29

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4588.000        | 54.98          | peak     | 4.09                | 59.07           | 74.00          | 150          | 200            | -14.93      |         |
|     | 4588.000        | 37.42          | AVG      | 4.09                | 41.51           | 54.00          | 150          | 200            | -12.49      |         |
| *   | 5508.000        | 59.50          | peak     | 6.07                | 65.57           | 74.00          | 150          | 15             | -8.43       |         |
|     | 6428.000        | 50.29          | peak     | 10.27               | 60.56           | 74.00          | 150          | 319            | -13.44      |         |
|     | 7348.000        | 46.61          | peak     | 12.02               | 58.63           | 74.00          | 150          | 158            | -15.37      |         |
|     | 7348.000        | 29.05          | AVG      | 12.02               | 41.07           | 54.00          | 150          | 158            | -12.93      |         |

\*:Maximum data    x:Over limit    !:over margin



Radiated Emission Measurement

Operator: Gino

File : 3

Data : #7

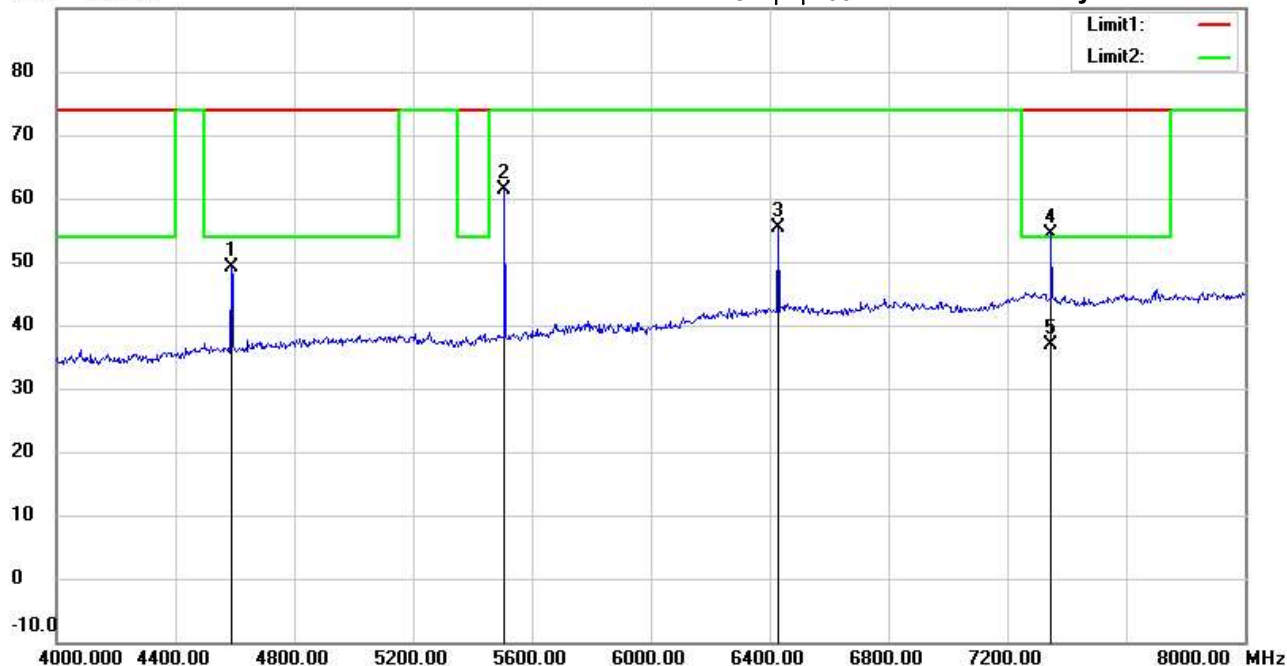
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:41:22

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4588.000        | 45.10          | peak     | 4.09                | 49.19           | 74.00          | 150          | 11             | -24.81      |         |
| *   | 5508.000        | 55.21          | peak     | 6.07                | 61.28           | 74.00          | 150          | 160            | -12.72      |         |
|     | 6428.000        | 45.22          | peak     | 10.27               | 55.49           | 74.00          | 150          | 239            | -18.51      |         |
|     | 7348.000        | 42.34          | peak     | 12.02               | 54.36           | 74.00          | 150          | 214            | -19.64      |         |
|     | 7348.000        | 24.78          | AVG      | 12.02               | 36.80           | 54.00          | 150          | 214            | -17.20      |         |



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Radiated Emission Measurement

Operator: Gino

File : 3

Data : #4

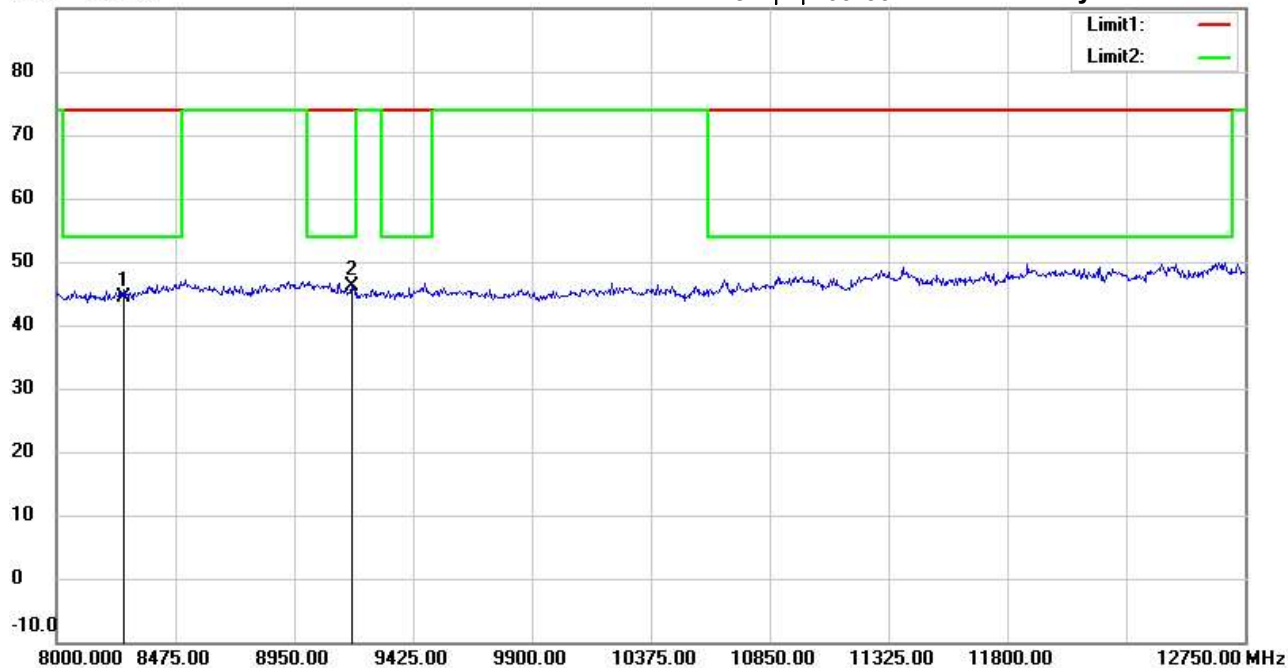
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:39:11

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 8262.337        | 31.31          | peak     | 13.03               | 44.34           | 74.00          | 150          | 352            | -29.66      |         |
| *   | 9180.375        | 32.78          | peak     | 13.42               | 46.20           | 74.00          | 150          | 314            | -27.80      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #8

Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:42:04

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 918.0375MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 8262.337        | 31.62          | peak     | 13.03               | 44.65           | 74.00          | 150          | 359            | -29.35      |         |
| *   | 9182.750        | 34.96          | peak     | 13.42               | 48.38           | 74.00          | 150          | 358            | -25.62      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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### Radiated Emission Measurement

Operator: Gino

File : 3

Data : #1

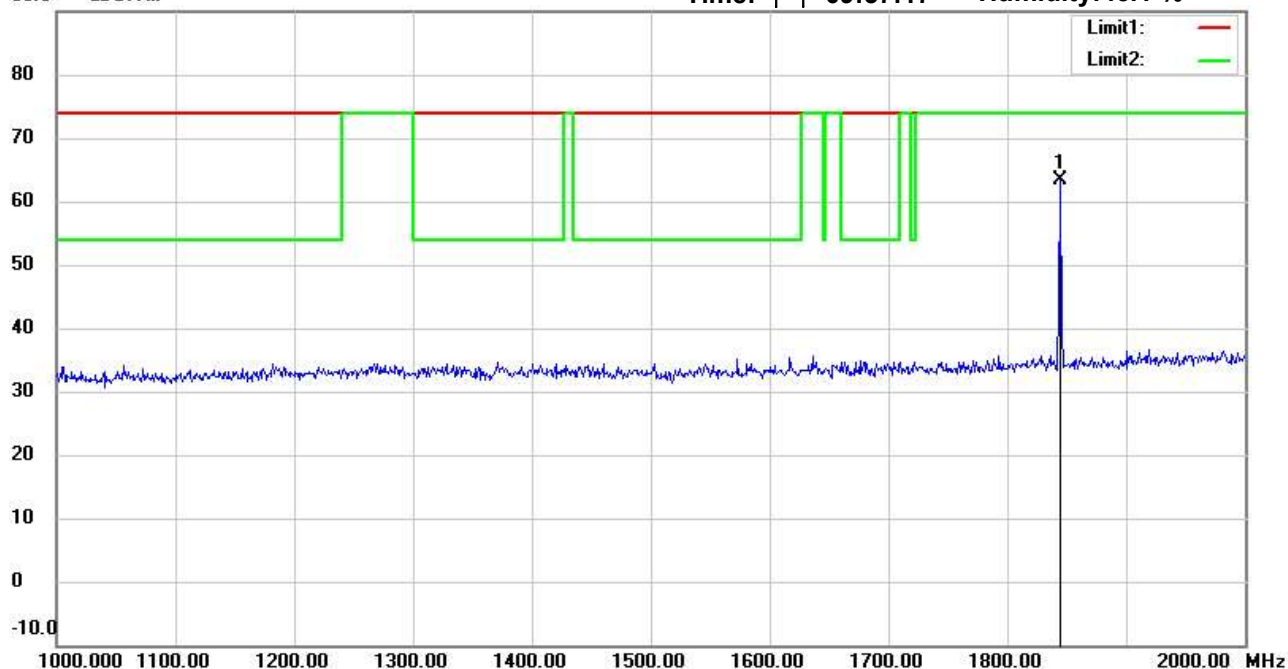
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:57:17

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1844.000        | 69.96          | peak     | -6.51               | 63.45           | 74.00          | 150          | 11             | -10.55      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #5

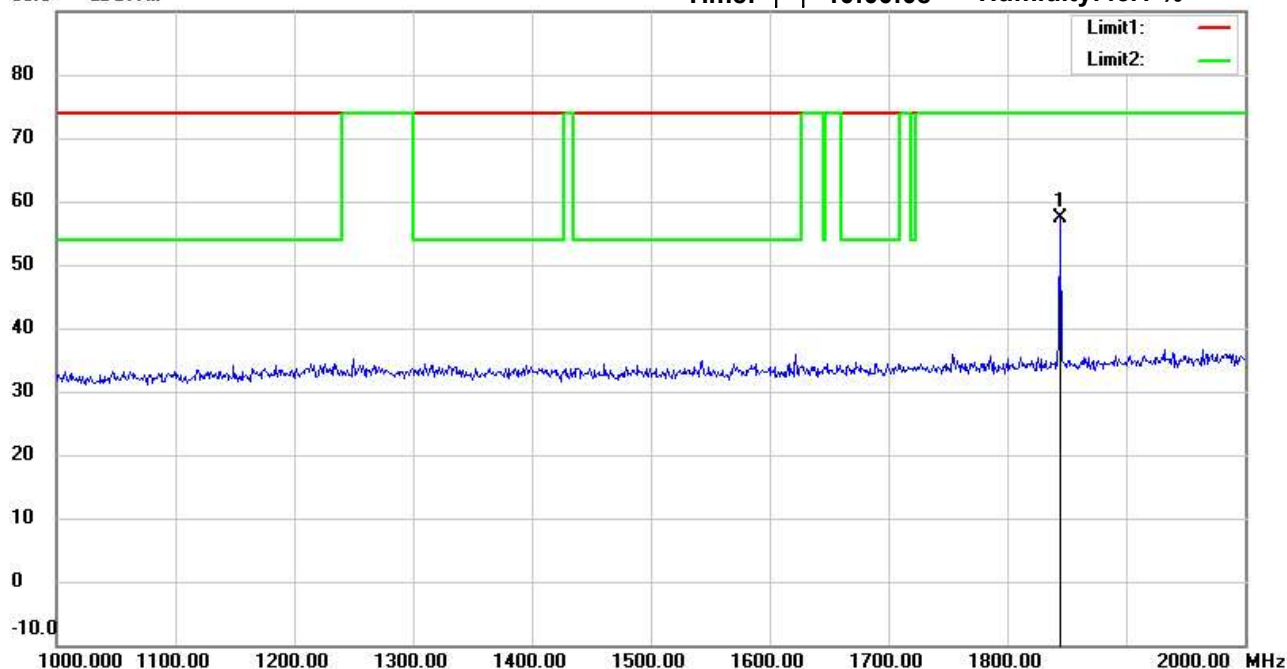
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 10:00:08

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1844.000        | 63.98          | peak     | -6.51               | 57.47           | 74.00          | 150          | 63             | -16.53      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #2

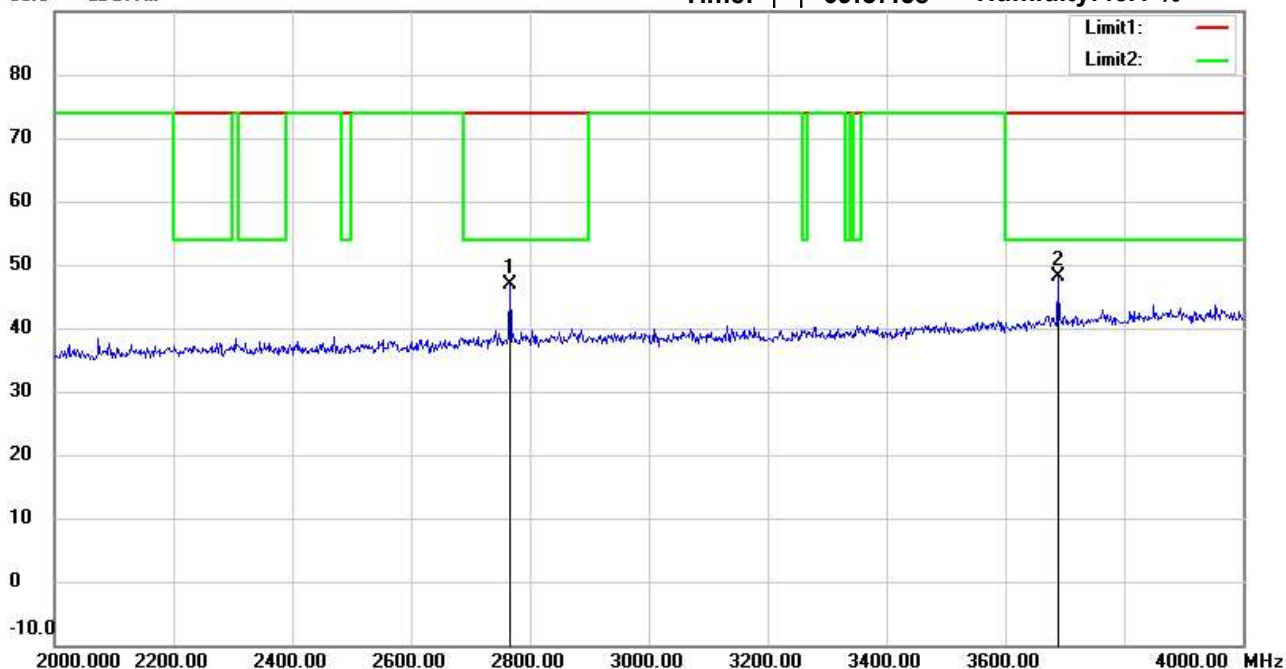
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:57:58

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2766.000        | 49.47          | peak     | -2.69               | 46.78           | 74.00          | 150          | 206            | -27.22      |         |
| *   | 3688.000        | 47.81          | peak     | 0.32                | 48.13           | 74.00          | 150          | 164            | -25.87      |         |

\*:Maximum data    x:Over limit    !:over margin



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Radiated Emission Measurement

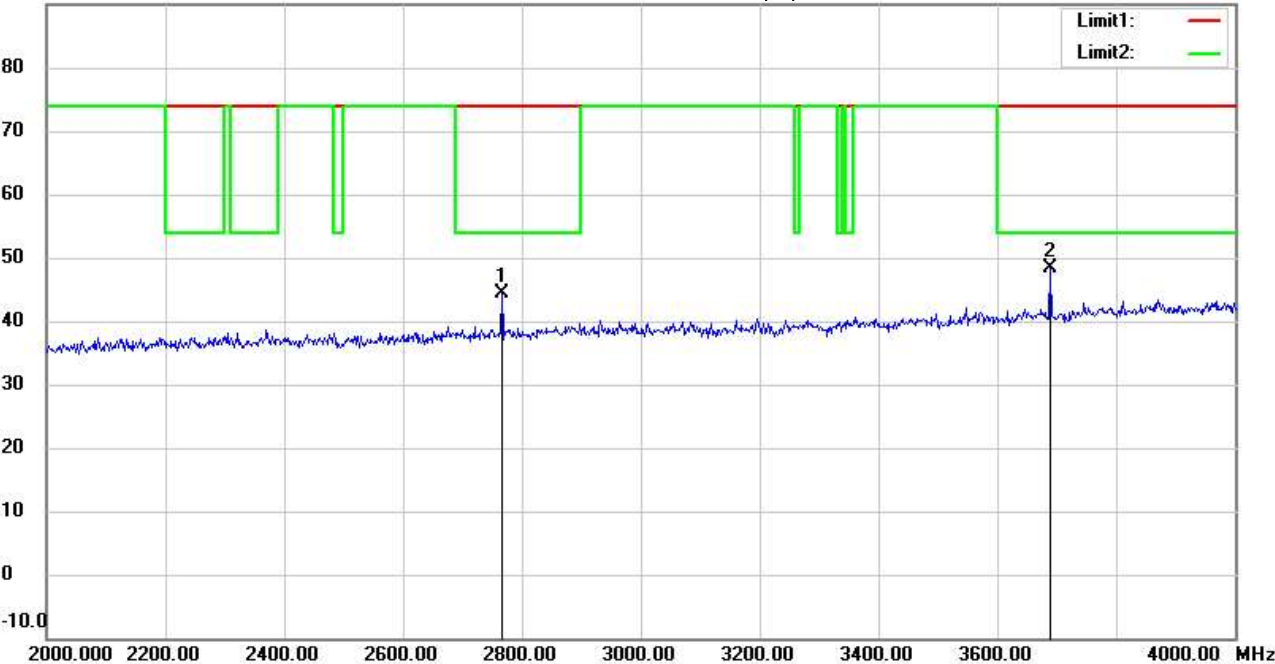
Operator: Gino  
Temperature:25.7 °C  
Humidity:45.1 %

File :3

Data :#6

Date: 2025/5/13  
Time: 下午 10:00:50

90.0 dBuV/m



Site : 966A Chamber  
Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK  
EUT : W6M22505-24392  
M/N:  
Test Mode : TX 921.98MHz  
Note :

Polarization: Vertical  
Power : 3 Vd.c.  
Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2766.000        | 47.17          | peak     | -2.69               | 44.48           | 74.00          | 150          | 177            | -29.52      |         |
| *   | 3688.000        | 48.02          | peak     | 0.32                | 48.34           | 74.00          | 150          | 160            | -25.66      |         |

\*:Maximum data    x:Over limit    !:over margin



Radiated Emission Measurement

Operator: Gino

File :3

Data :#3

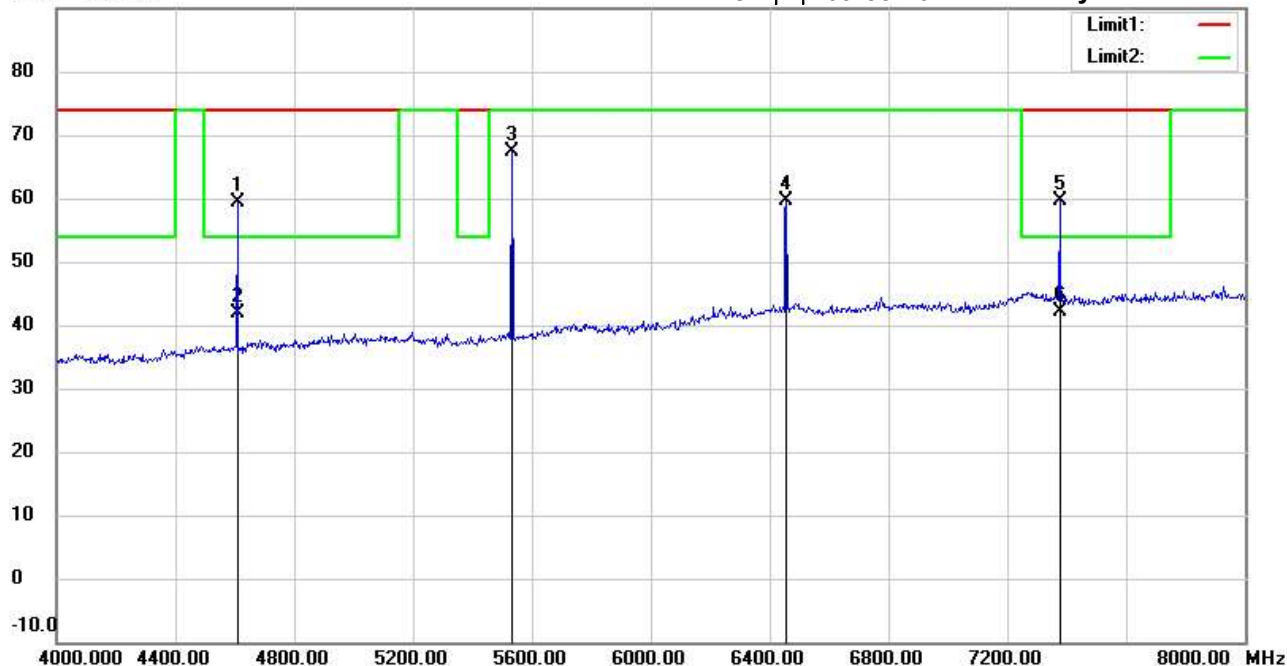
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:58:40

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4608.000        | 55.33          | peak     | 4.17                | 59.50           | 74.00          | 150          | 319            | -14.50      |         |
|     | 4608.000        | 37.77          | AVG      | 4.17                | 41.94           | 54.00          | 150          | 319            | -12.06      |         |
| *   | 5532.000        | 61.13          | peak     | 6.15                | 67.28           | 74.00          | 150          | 26             | -6.72       |         |
|     | 6456.000        | 49.28          | peak     | 10.34               | 59.62           | 74.00          | 150          | 258            | -14.38      |         |
|     | 7376.000        | 47.50          | peak     | 12.08               | 59.58           | 74.00          | 150          | 110            | -14.42      |         |
|     | 7376.000        | 29.94          | AVG      | 12.08               | 42.02           | 54.00          | 150          | 110            | -11.98      |         |



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Radiated Emission Measurement

Operator: Gino

File : 3

Data : #7

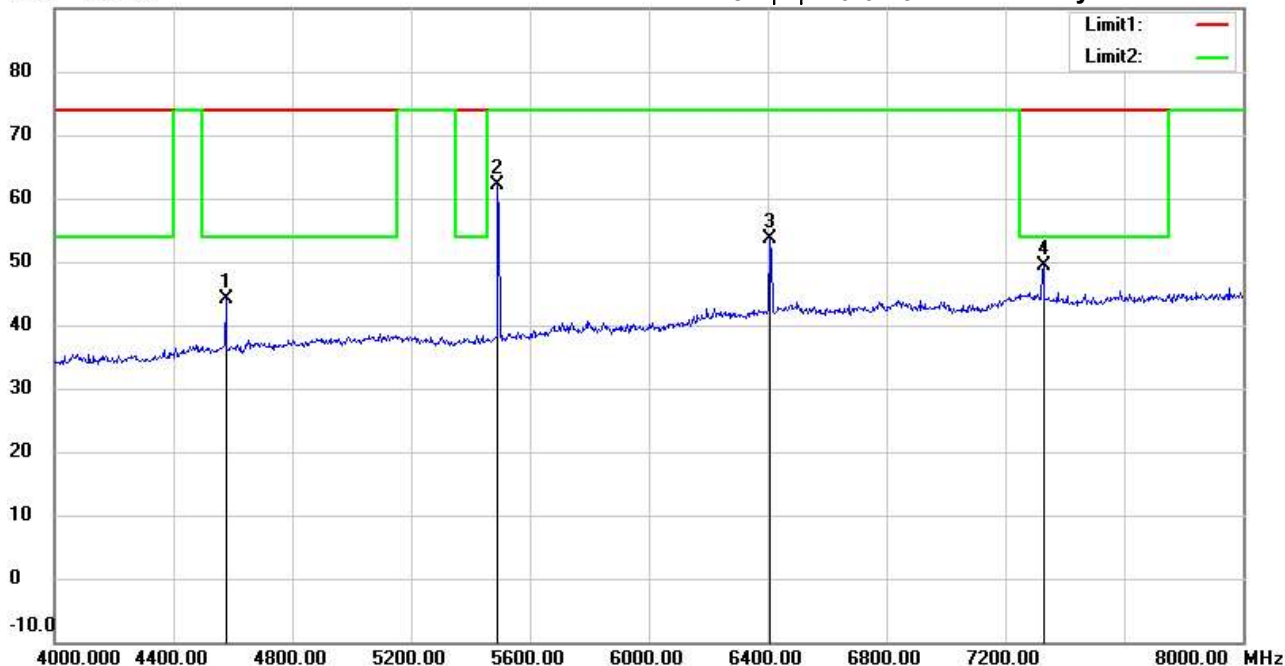
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 10:01:32

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4576.000        | 40.09          | peak     | 4.05                | 44.14           | 74.00          | 150          | 108            | -29.86      |         |
| *   | 5492.000        | 56.11          | peak     | 5.99                | 62.10           | 74.00          | 150          | 159            | -11.90      |         |
|     | 6408.000        | 43.29          | peak     | 10.23               | 53.52           | 74.00          | 150          | 322            | -20.48      |         |
|     | 7328.000        | 37.47          | peak     | 11.97               | 49.44           | 74.00          | 150          | 140            | -24.56      |         |

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #4

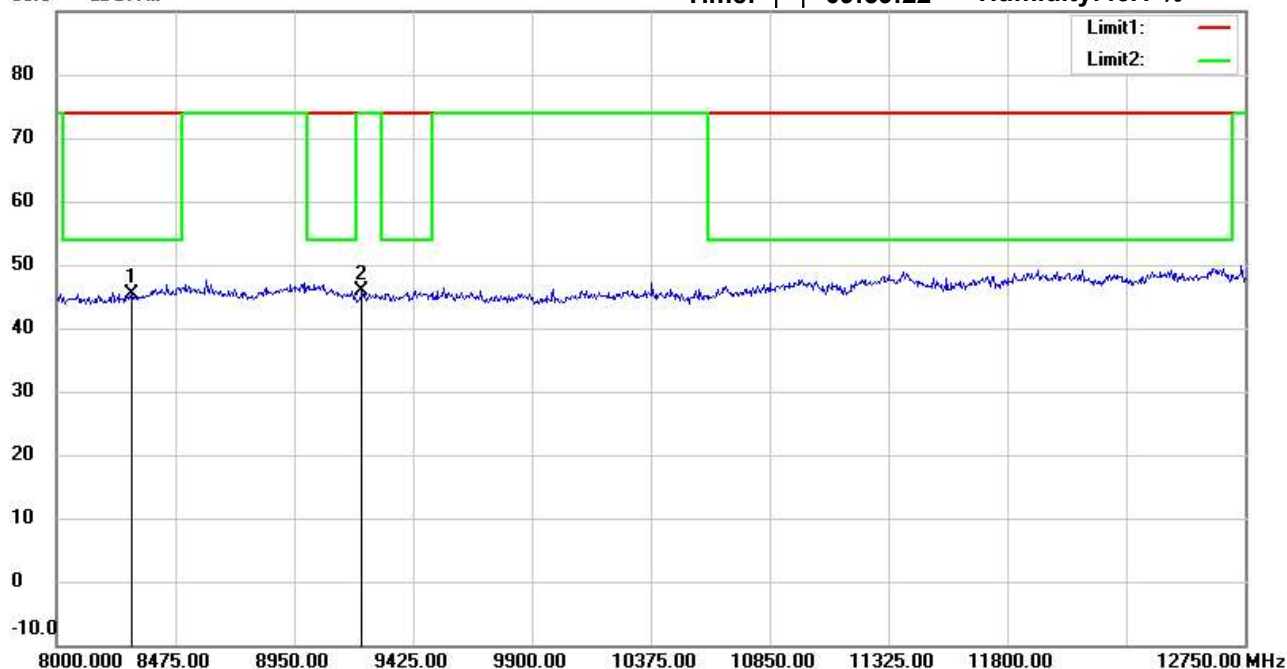
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 09:59:22

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 8297.820        | 32.30          | peak     | 13.05               | 45.35           | 74.00          | 150          | 195            | -28.65      |         |
| *   | 9219.800        | 32.47          | peak     | 13.36               | 45.83           | 74.00          | 150          | 160            | -28.17      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #8

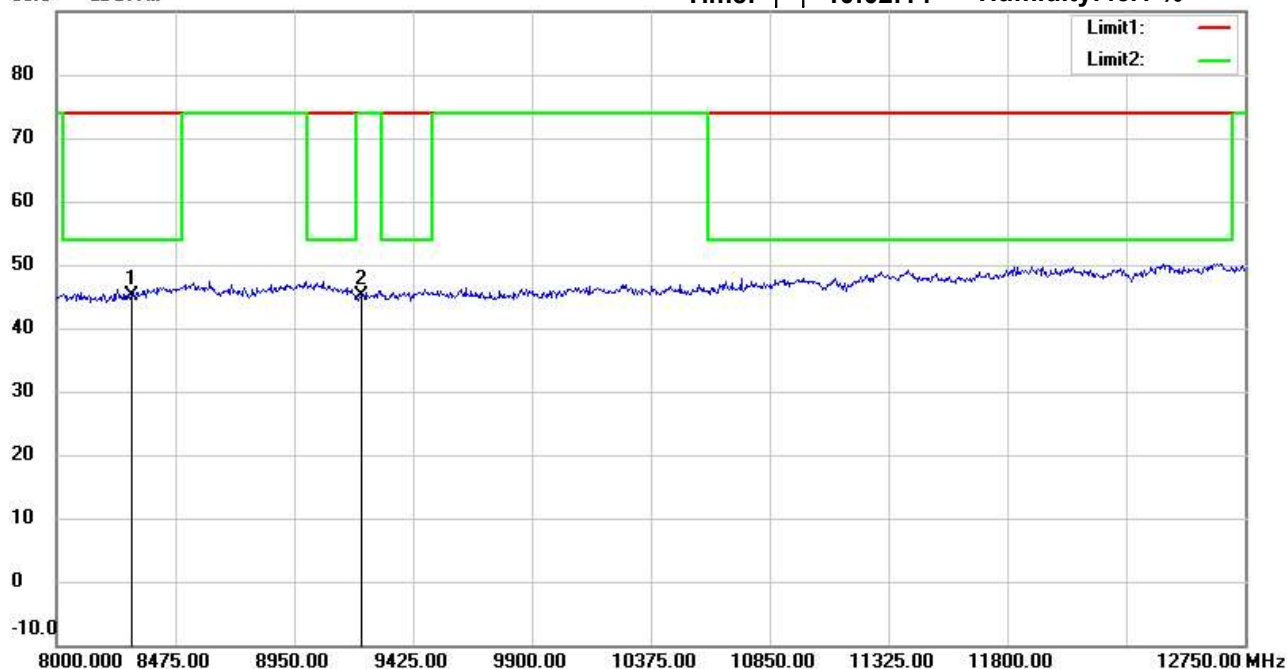
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 10:02:14

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 921.98MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 8297.820        | 32.16          | peak     | 13.05               | 45.21           | 74.00          | 150          | 314            | -28.79      |         |
|     | 9219.800        | 31.80          | peak     | 13.36               | 45.16           | 74.00          | 150          | 359            | -28.84      |         |

\*:Maximum data    x:Over limit    !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City  
Tel: +886-2-2646-1508  
Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #1

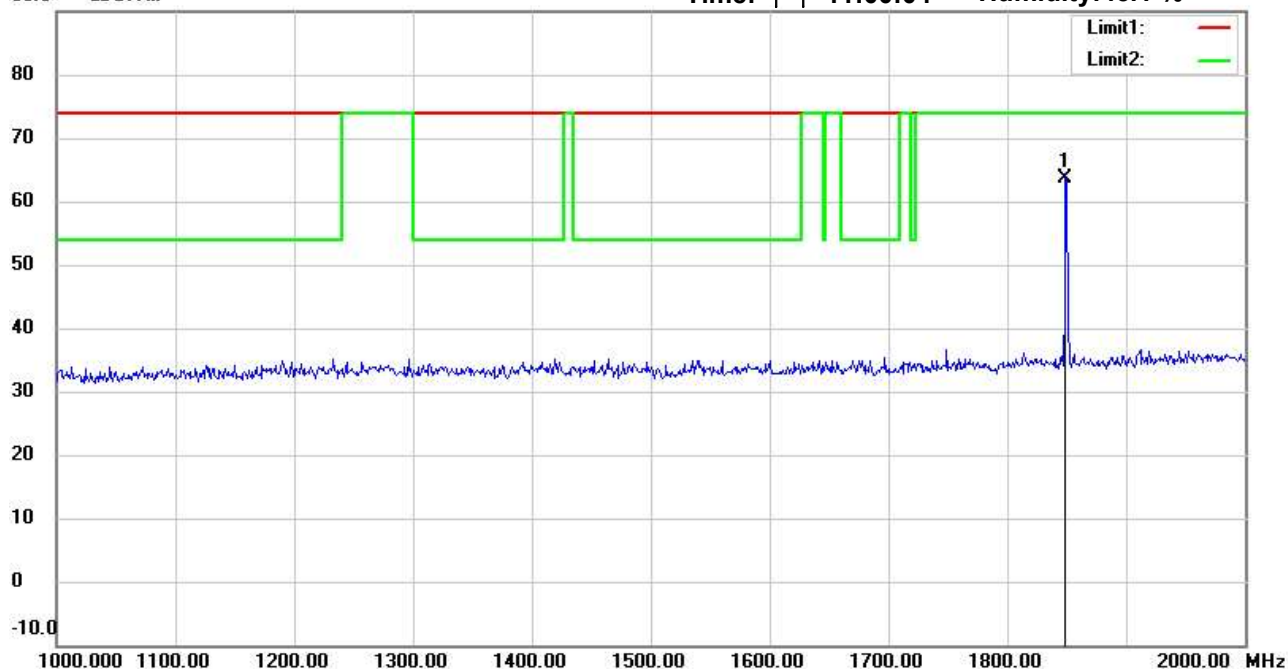
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 11:00:04

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 924.48MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1849.000        | 70.08          | peak     | -6.48               | 63.60           | 74.00          | 150          | 156            | -10.40      |         |

\*:Maximum data    x:Over limit    !:over margin



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# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #5

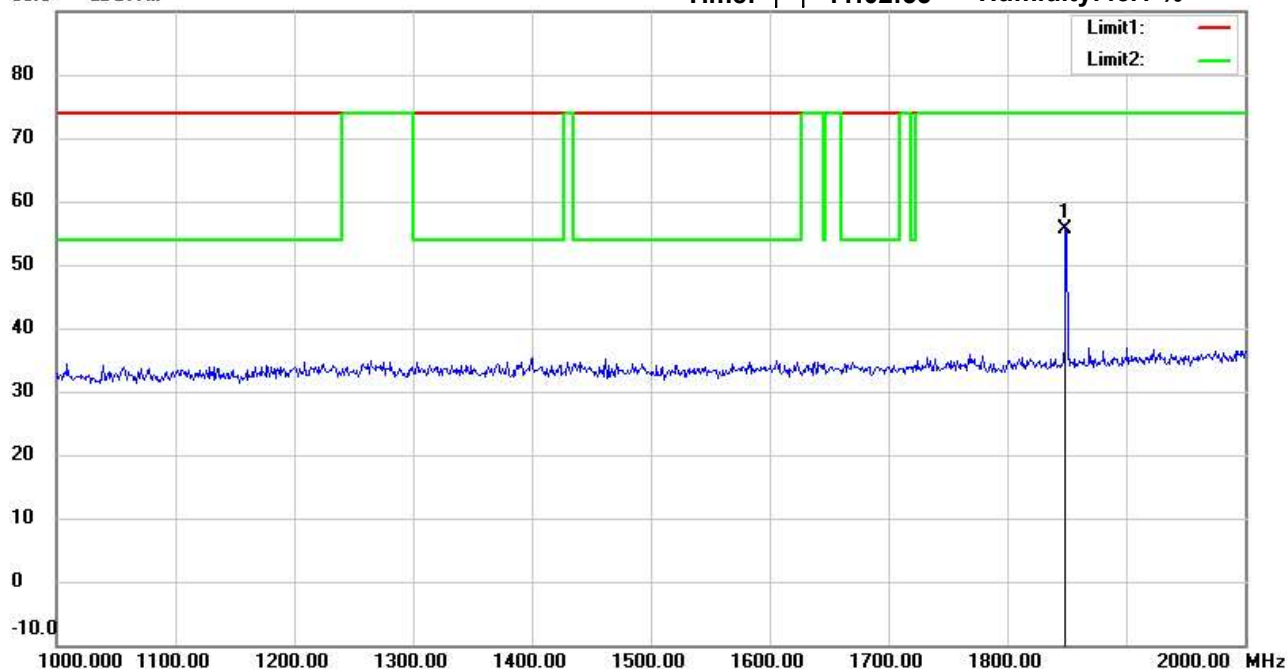
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 11:02:55

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 924.48MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 1849.000        | 62.17          | peak     | -6.48               | 55.69           | 74.00          | 150          | 7              | -18.31      |         |

\*:Maximum data    x:Over limit    !:over margin



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Fax: +886-2-2646-1533

# Radiated Emission Measurement

Operator: Gino

File : 3

Data : #2

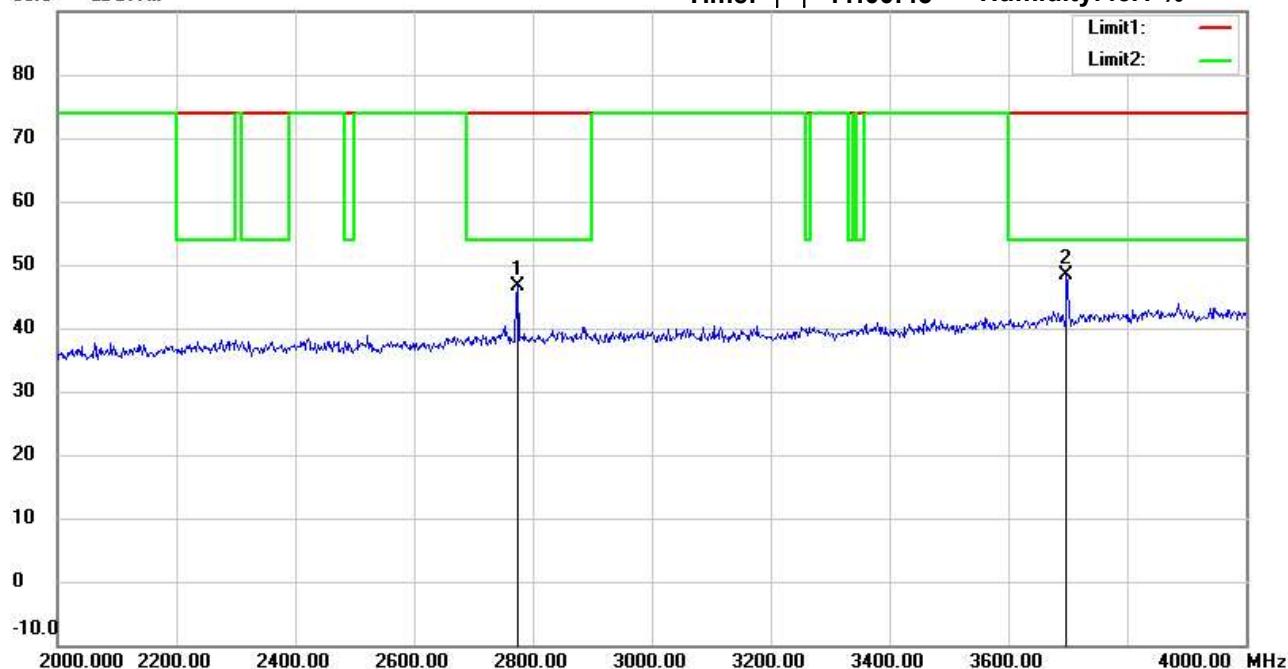
Date: 2025/5/13

Temperature: 25.7 °C

90.0 dBuV/m

Time: 下午 11:00:45

Humidity: 45.1 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22505-24392

M/N:

Test Mode : TX 924.48MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 2774.000        | 49.22          | peak     | -2.65               | 46.57           | 74.00          | 150          | 299            | -27.43      |         |
| *   | 3698.000        | 48.14          | peak     | 0.36                | 48.50           | 74.00          | 150          | 20             | -25.50      |         |

\*:Maximum data    x:Over limit    !:over margin