

47 CFR PART 15 SUBPART C TEST REPORT

for

TPMS

Model No.: RSI-20

FCC ID: HQXSWA02

of

Applicant: Sysgration Ltd.

Address: 6F., No.1, Sec.1, Tiding Blvd., Neihu Dist.,
Taipei City 114 Taiwan

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

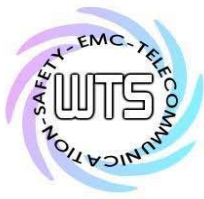
FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

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



Report No.: W6M22604-25074-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

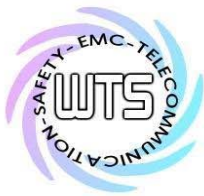


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1 General Information

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:

May 08, 2026

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 08, 2026

Kevin Wang

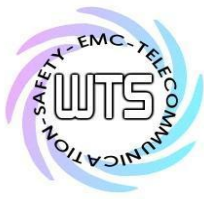
Kevin Wang

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

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: ./.

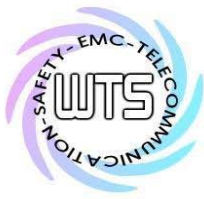
1.3 Details of approval holder

Name: Sysgration Ltd.

Street: 6F., No.1, Sec.1, Tiding Blvd., Neihu Dist.,

City: Taipei City 114

Country: Taiwan



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1.4 Application details

Date of receipt of test item: April 14, 2026

Date of test: from April 15, 2026 to May 07, 2026

1.5 Test item

Description of test item: TPMS

Type identification: RSI-20

Brand name: SYSGRATION

Multi-listing model number: ./.

Transmitting frequency: 315/433.92 MHz

Operation mode: Half-duplex

Voltage supply: Battery 3Vd.c. (CR2050HR)

Antenna type: Loop Antenna

Antenna gain: 315MHz: -10.37dBi/433.92MHz: -12.12dBi

Sample no.: #04

Manufacturer (if applicable)

Name: ./.

Street: ./.

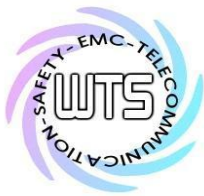
Town: ./.

Country: ./.

1.6 Test standards

Technical standard: 47 CFR PART 15 SUBPART C § 15.231 (e) (2024-10)

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024



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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. ☐

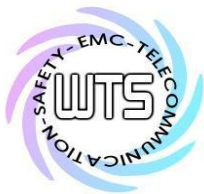
2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Conducted Measurement at (AC) Power Line)	Expanded Uncertainty : AMN : 0.90 dB Voltage probe : 1.18 dB Include Pulse Limiter : 1.44 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Output Power (Field Strength), Out of Band Radiated Emissions, Transmitter Radiated Emissions in restricted Bands, Spurious Emission radiated)	Expanded Uncertainty : 0.009-30 MHz : 1.85 dB 30-1000 MHz : 4.21 dB 1-18 GHz : 3.19 dB 18-40 GHz : 1.90 dB
Estimation Result of Uncertainty of Bandwidth Measurement (Channel Bandwidth)	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement (Frequency Tolerance)	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Duty Cycle Measurement (Active Time)	Expanded Uncertainty : 0.18 ms

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

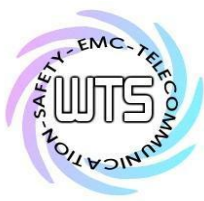


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2.3 Test Mode

This EUT is the portable device. So the EUT was tested on three different axes. Please see assessment test results as section 3 of this test report.



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2.4 Test equipment utilized

MAX POWER

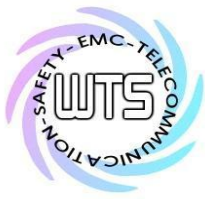
Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2025/9/10	2026/9/9
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168& EMCI-N-6-06	01380&AT-06007	SCHWARZBECK &EMC	2026/4/17	2027/4/16
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2025/9/10	2026/9/9
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2026/4/20	2027/4/19
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2025/7/11	2026/7/10
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168& EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2026/4/17	2027/4/16
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2026/3/26	2027/3/25
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

Duration Time & Duty cycle & 20dB Bandwidth

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2026/3/12	2027/3/11



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2.5 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2020+Cor.1-2023+C63.10a-2024 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 ANSI STANDARD C63.10-2020+Cor.1-2023+C63.10a-2024 6.2 using a spectrum analyzer. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was the 100 kHz and the video bandwidth was 300 kHz.

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 dB μ V) 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
20 dB μ V + 10.36 dB/m + 6 dB = 36.36 dB μ V/m @3m

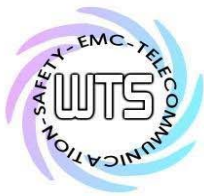
ANSI STANDARD C63.10- 2020+Cor.1-2023+C63.10a-2024 6.2.2

MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

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.

ANSI STANDARD C63.10- 2020+Cor.1-2023+C63.10a-2024 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.



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3 Test results (enclosure)

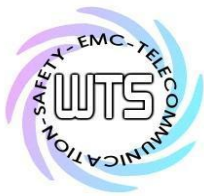
☒ 1st test

☐ test after modification

☐ production test

TEST CASE	Para. Number	Required	Test passed	Test failed
Transmission Requirements	15.231(e)	☒	☒	☐
Radiated Emission	15.231(e)	☒	☒	☐
Bandwidth of Emission	15.231(c)	☒	☒	☐
Frequency Tolerance	15.231(d)	☐	☐	☐
Period Alternate Field Strength Requirements	15.231(e)	☒	☒	☐
Antenna Requirement	15.203	☒	☒	☐
Conducted Measurement at (AC) Power Line	15.207	☐	☐	☐

The following is intentionally left blank.



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3.1 Transmission Requirements

FCC 15.231(e)

3.1.1 Limit of Transmission Time

Devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

3.1.2 Results for the duration and silent period measurement

Test date: April 17, 2026

Temperature: 25.6°C

Humidity: 59.1%

Tester: Rick

315MHz

☐ This manually operated transmitter employs software to control the duration of each transmission and silent period between transmissions. The real measured result for the duration of each transmission is _____ ms, and the result for silent period between transmissions is _____ second.

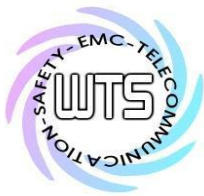
☒ This transmitter is operated by automatic activation, and the duration of each transmission and silent period between transmissions will be controlled by software. The real measured result for the duration of each transmission is 574.519 ms, and the result for silent period between transmissions is 40.237981 second.

433.92MHz

☐ This manually operated transmitter employs software to control the duration of each transmission and silent period between transmissions. The real measured result for the duration of each transmission is _____ ms, and the result for silent period between transmissions is _____ second.

☒ This transmitter is operated by automatic activation, and the duration of each transmission and silent period between transmissions will be controlled by software. The real measured result for the duration of each transmission is 654.647 ms, and the result for silent period between transmissions is 40.077724 second.

Explanation: See attached diagrams in appendix.

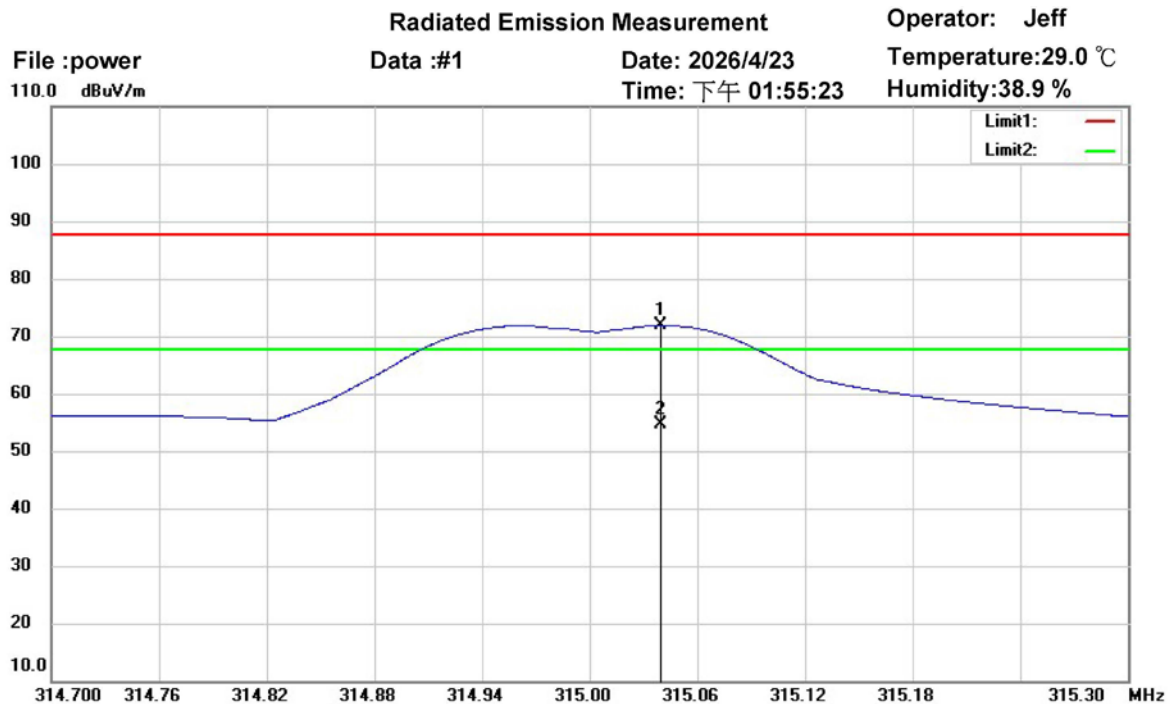


Registration number: W6M22604-25074-C-1

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3.2 Output Power (Field Strength)

315MHz



Site : 966A Chamber

Condition : FCC 15.231(315MHz)Power(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

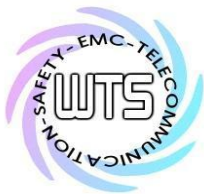
Note :

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
	315.0396	83.35	peak	-11.44	71.91	87.66	100	169	-15.75	
*	315.0396	66.03	AVG	-11.44	54.59	67.66	100	169	-13.07	



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Radiated Emission Measurement

Operator: Jeff

File :power

Data :#2

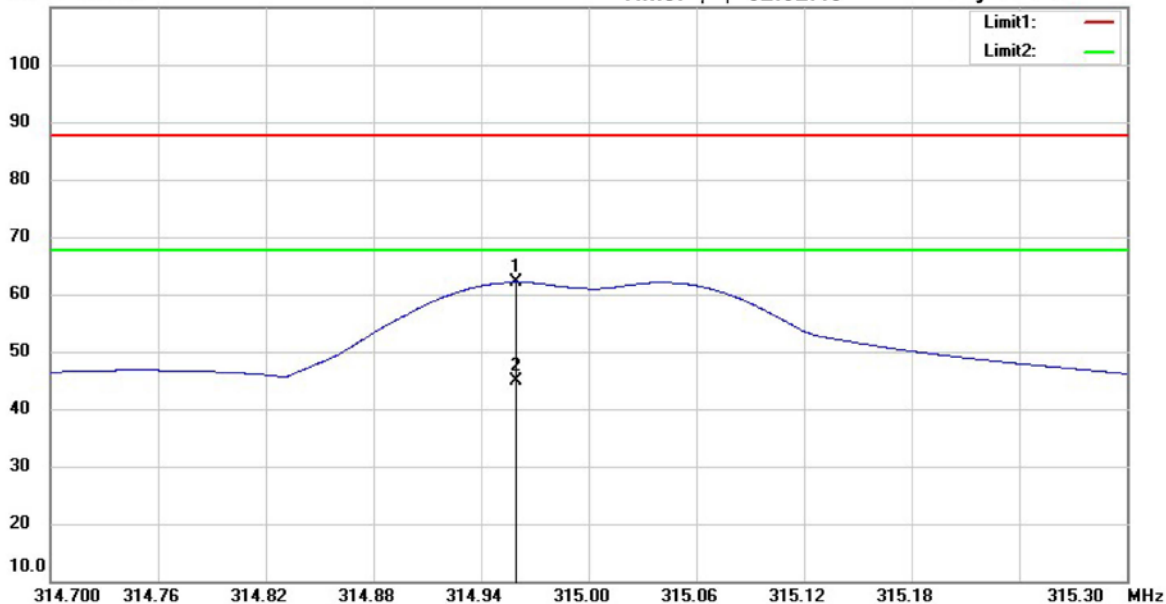
Date: 2026/4/23

Temperature:29.0 °C

110.0 dBuV/m

Time: 下午 02:02:19

Humidity:38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz)Power(PK)<e>

Polarization: **Vertical**

EUT : W6M22604-25074

Power : 3 Vd.c.

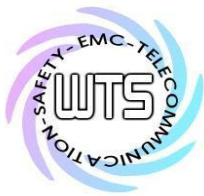
M/N:

Distance: 3m

Test Mode : TX 315MHz

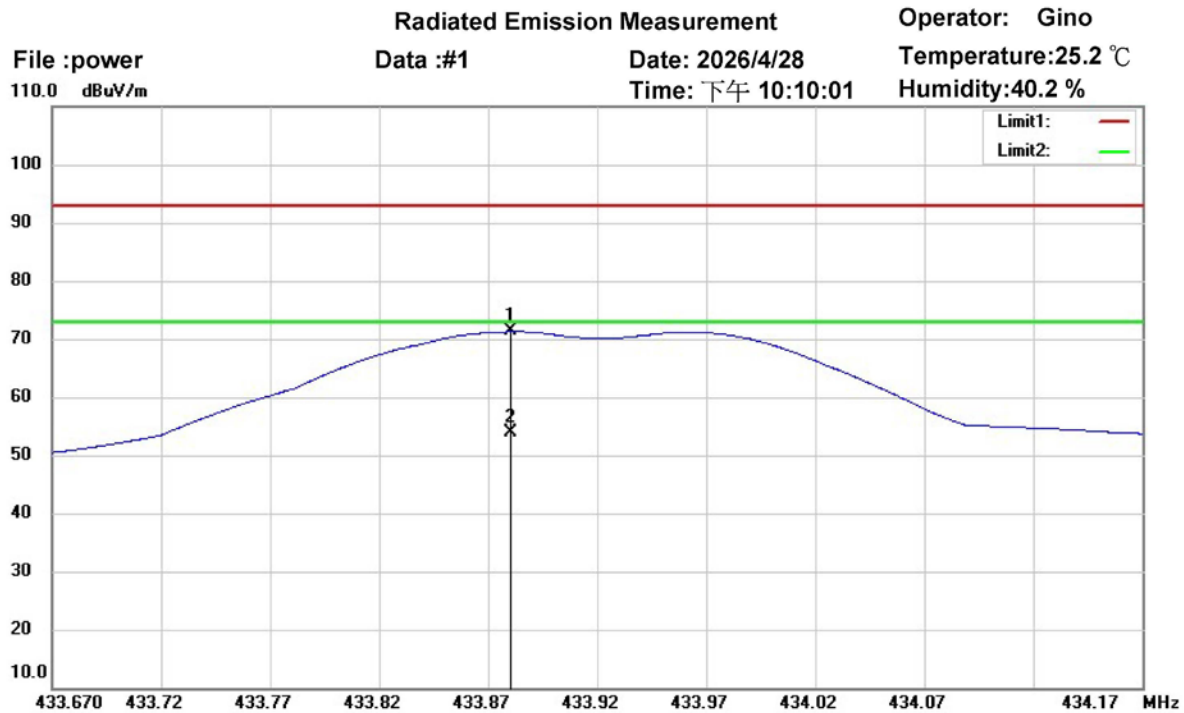
Note :

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
	314.9597	73.56	peak	-11.44	62.12	87.66	120	102	-25.54	
*	314.9597	56.24	AVG	-11.44	44.80	67.66	120	102	-22.86	



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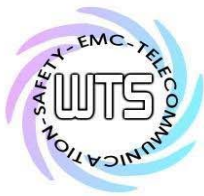
Registration number: W6M22604-25074-C-1
FCC ID: HQXSWA02
433.92MHz



Site : 966A Chamber
Condition : FCC 15.231(433.92MHz)Power(PK)<e>
EUT : W6M22604-25074
M/N:
Test Mode : TX 433.92MHz
Note :

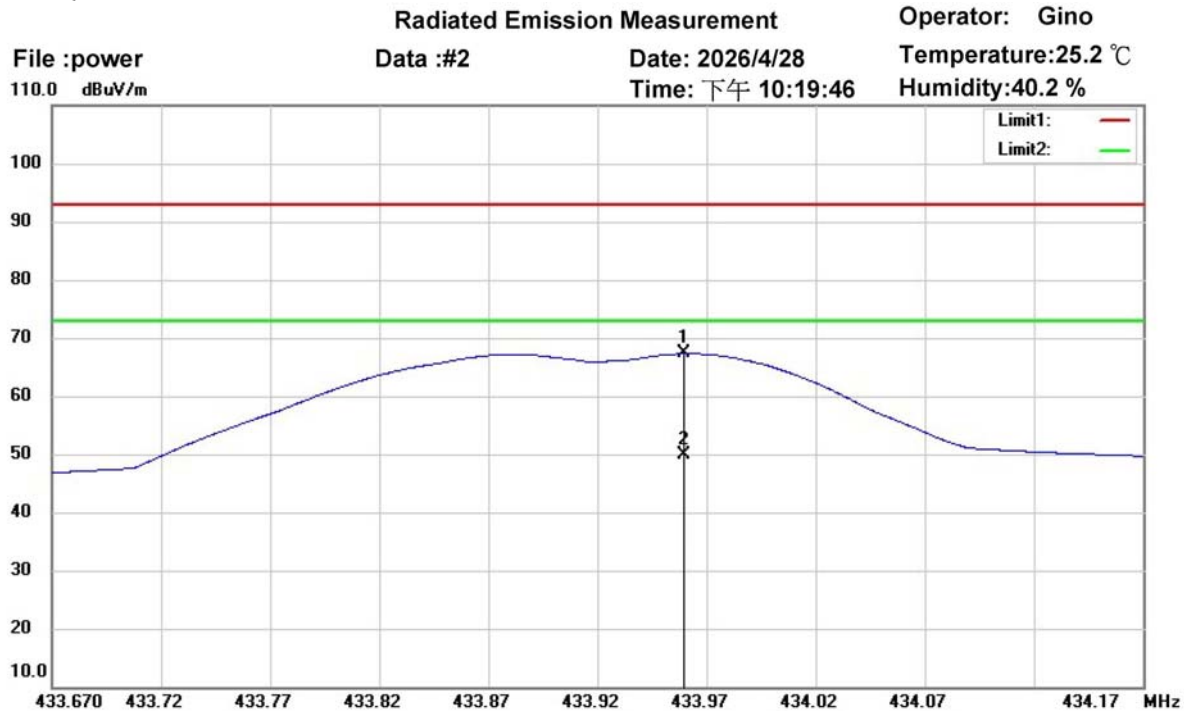
Polarization: *Horizontal*
Power : 3 Vd.c.
Distance: 3m

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
	433.8804	45.91	peak	25.37	71.28	92.80	100	300	-21.52	
*	433.8804	28.49	AVG	25.37	53.86	72.80	100	300	-18.94	



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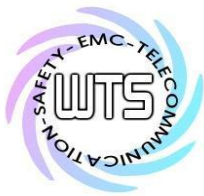


Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	433.9594	41.94	peak	25.37	67.31	92.80	114	259	-25.49	
*	433.9594	24.52	AVG	25.37	49.89	72.80	114	259	-22.91	

Limit 15.231(e)

Fundamental Frequency (MHz)	Field strength of fundamental, limit $\mu\text{V/m}$
40.66 – 40.70	1,000
70 – 130	500
130 – 174	500 to 1,500
174 – 260	1,500
260 – 470	1,500 to 5,000** (315 MHz: 67.66 dB $\mu\text{V/m}$ = 2416.677 $\mu\text{V/m}$) (433.92 MHz: 72.87 dB $\mu\text{V/m}$ = 4398.681 $\mu\text{V/m}$)
Above 470	5,000

** linear interpolation



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3.3 Out of Band Radiated Emissions

FCC Rule: 15.231(e) , 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Guidance on Measurement of pulsed emission: 15.35(c)

“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.”

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms or one period})$

Limits:

For frequencies (Average measurements)

Correction factor conform 15.35 (c) (Average measurements)

Duty cycle correction :

Max. Peak reading – duty cycle correction

Max permitted average Limits = Max permitted Fundamental limit – 20 dB

For example for 315 fundamental carrier:

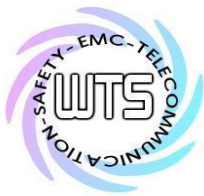
Max permitted average Limit: $67.66 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 47.66 \text{ dB}\mu\text{V/m}$

For example for 433.92 fundamental carrier:

Max permitted average Limit: $72.80 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 52.80 \text{ dB}\mu\text{V/m}$

For frequencies above 1GHz (Peak measurements).

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)



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3.4 Transmitter Radiated Emissions in restricted Bands

FCC Rules: 15.231 (e), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 8000 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 (MHz)	Field strength (microvolts/meter)	Field Strength (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 pulsed emission:

“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.

For frequencies above 1GHz (Average measurements).

The correction factor, based on the channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

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

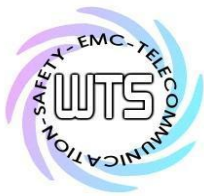
No duty cycle correction was added to the reading

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Above 960 MHz

For mode DSSS CW: $54 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Explanation: See attached diagrams in appendix.



Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

3.5 Spurious Emission radiated, Transmitter

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

The limits on the field strength of the spurious emission in the table § 15.231(e) are based on the fundamental frequency of the intentional radiator. Spurious emission shall be attenuated to the average (or alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength.

In addition, radiated emission 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.

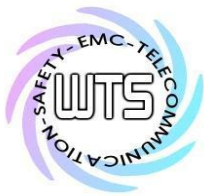
Summary table with radiated data of the test plots

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. See attached diagrams in appendix.**

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

Test results: The unit meet the FCC requirements.



Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

3.6 Channel Bandwidth

Measurement of Necessary Bandwidth (BN)

Test date: April 17, 2026

Temperature: 25.6°C

Humidity: 59.1%

Tester: Rick

Used frequency	Bandwidth	Limit
315 MHz	140.384615385 kHz	1.0848 MHz

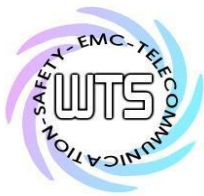
Used frequency	Bandwidth	Limit
433.92 MHz	141.826923077 kHz	1.0848 MHz

Explanation: The bandwidth fulfills the requirements of FCC § 15.231, see attached diagrams.

Limits:

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

Explanation: See attached diagrams in appendix.



Registration number: W6M22604-25074-C-1

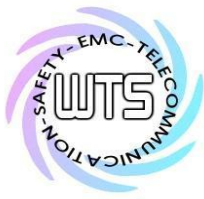
FCC ID: HQXSWA02

3.7 Antenna requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Explanation: This Loop Antenna is integral antenna which passes antenna requirement.

The equipment meets the requirements	yes ☒	no ☐
--------------------------------------	--	--------------------------------



Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

3.8 Duty Cycle

The correction factor, based on the channel dwell time in a 100ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the measured value.

Average Reading = Peak Reading (dBuV/m) + Duty Cycle Correction

Test date: April 17, 2026

Temperature: 25.6°C

Humidity: 59.1%

Tester: Rick

Duty Cycle Correction = $20 \log(\text{Cycle})$

In order to determine the Duty Cycle, the EUT is measured as:

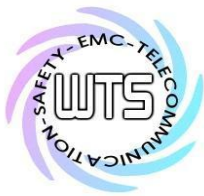
315MHz

Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction $20*\log(\text{Duty Cycle})$
Transmitting mode	100	13.621795	0.13621795	-17.32

433.92MHz

Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction $20*\log(\text{Duty Cycle})$
Transmitting mode	100	13.461538	0.13461538	-17.42

Explanation: See attached diagrams in appendix.



Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

3.9 Conducted Measurement at (AC) Power Line

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.

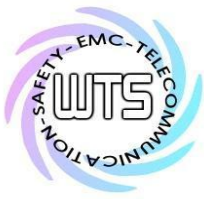
Frequency	Level	
	quasi-peak (dB μ V/m)	average (dB μ V/m)
-- kHz	--	--

Note

1. The formula of measured value as: **Test Result = Reading + 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 battery-used.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

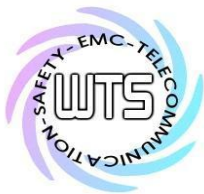


Registration number: W6M22604-25074-C-1
FCC ID: HQXSWA02

Appendix

Measurement diagrams

1. Active Time
2. Bandwidth
3. Spurious Emissions radiated

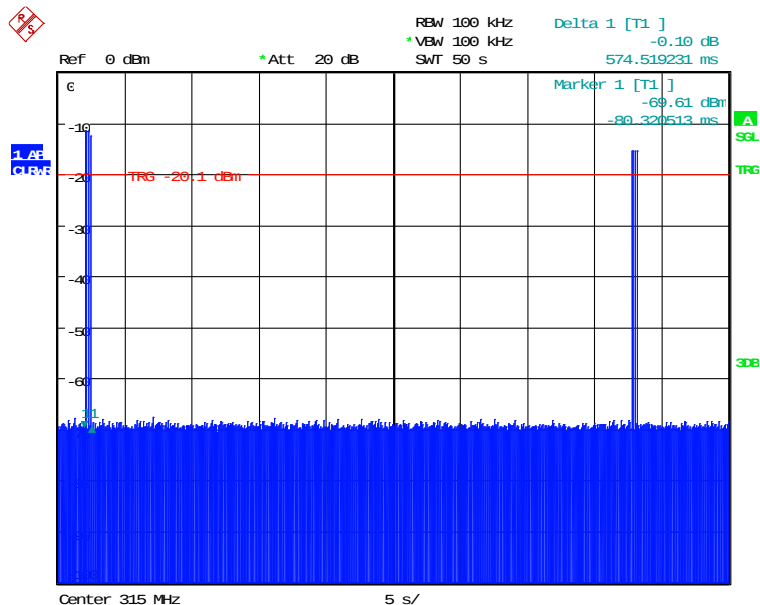


Registration number: W6M22604-25074-C-1

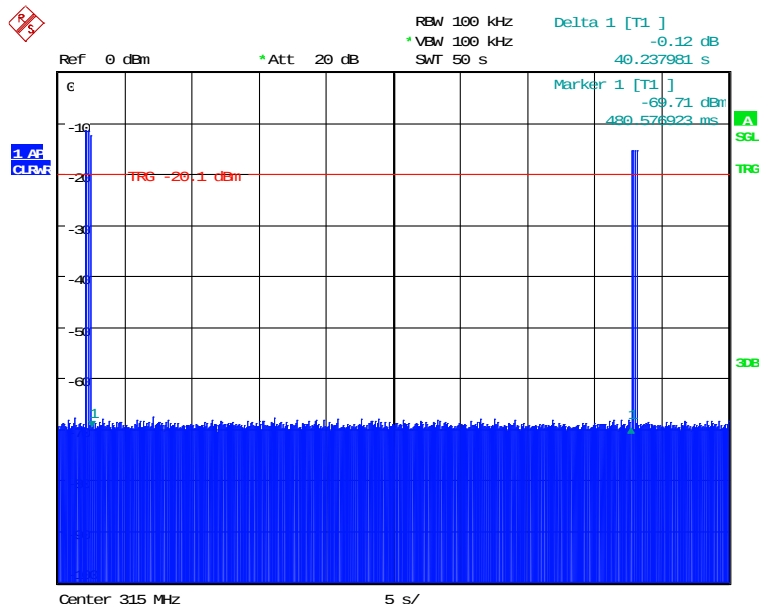
FCC ID: HQXSWA02

Active Time

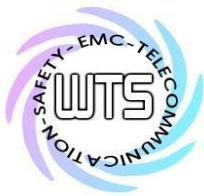
315MHz



DURATION TIME
Date: 17.APR.2026 16:36:12



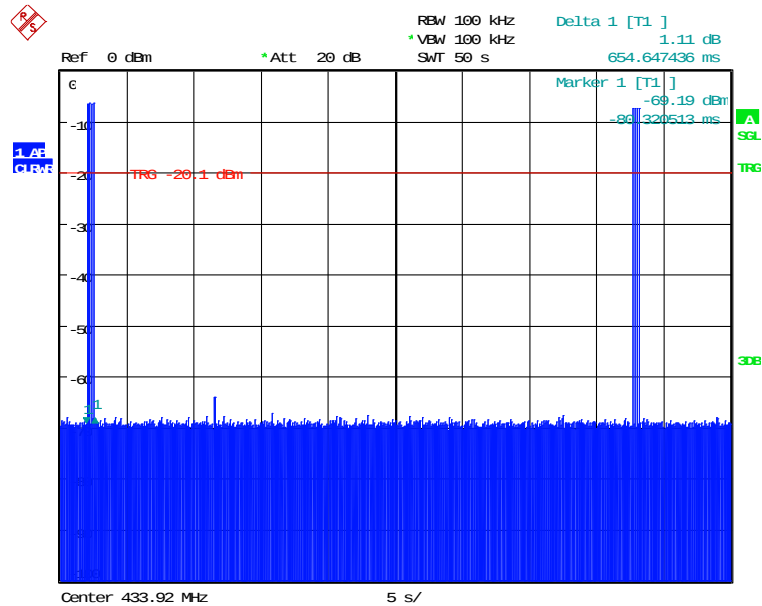
DURATION TIME
Date: 17.APR.2026 16:37:06



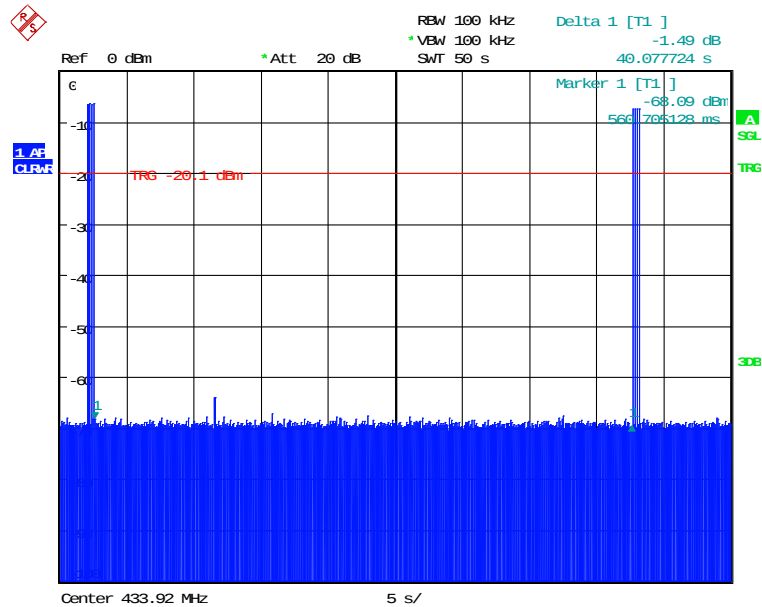
Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

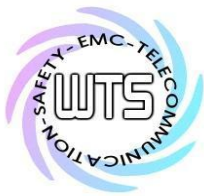
433.92MHz



DURATION TIME
Date: 17.APR.2026 16:39:41



DURATION TIME
Date: 17.APR.2026 16:39:07

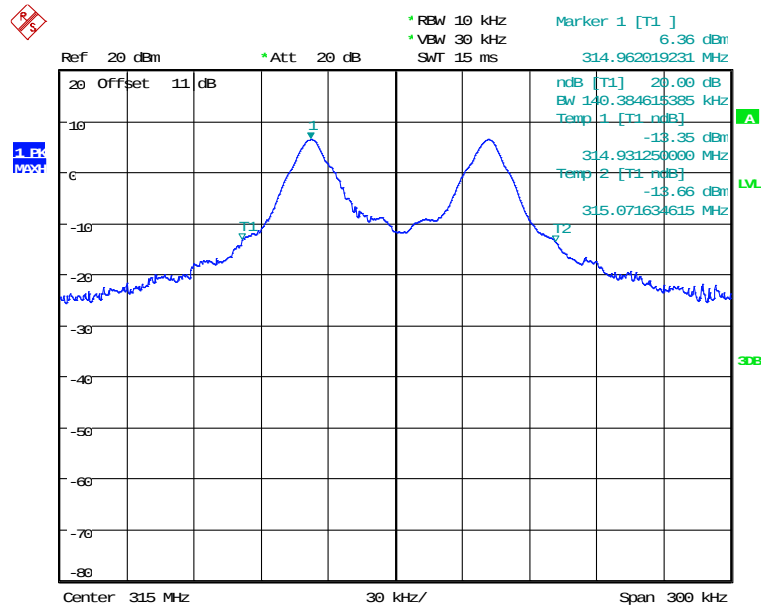


Registration number: W6M22604-25074-C-1

FCC ID: HQXSWA02

Bandwidth

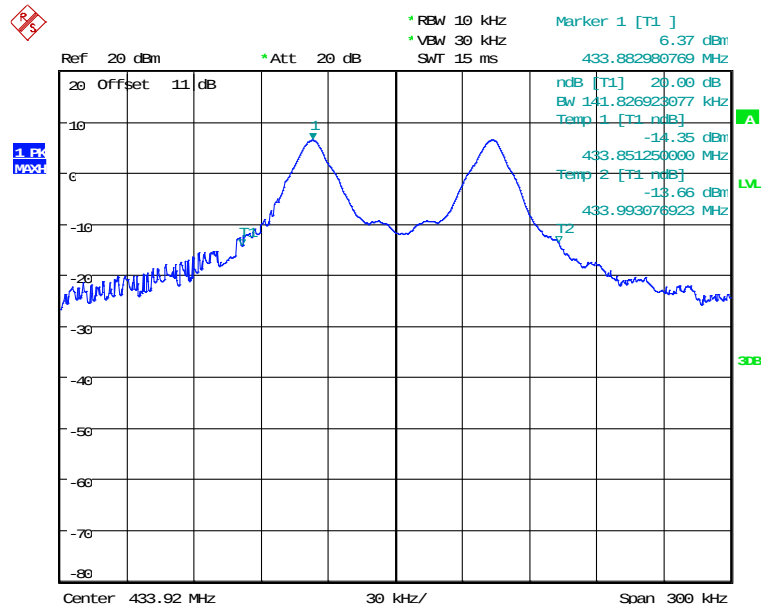
315MHz



20DB BANDWIDTH 315MHz

Date: 17.APR.2026 16:21:17

433.92MHz



20DB BANDWIDTH 433.92MHz

Date: 17.APR.2026 16:13:30



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: Jeff

File : 1

Data : #1

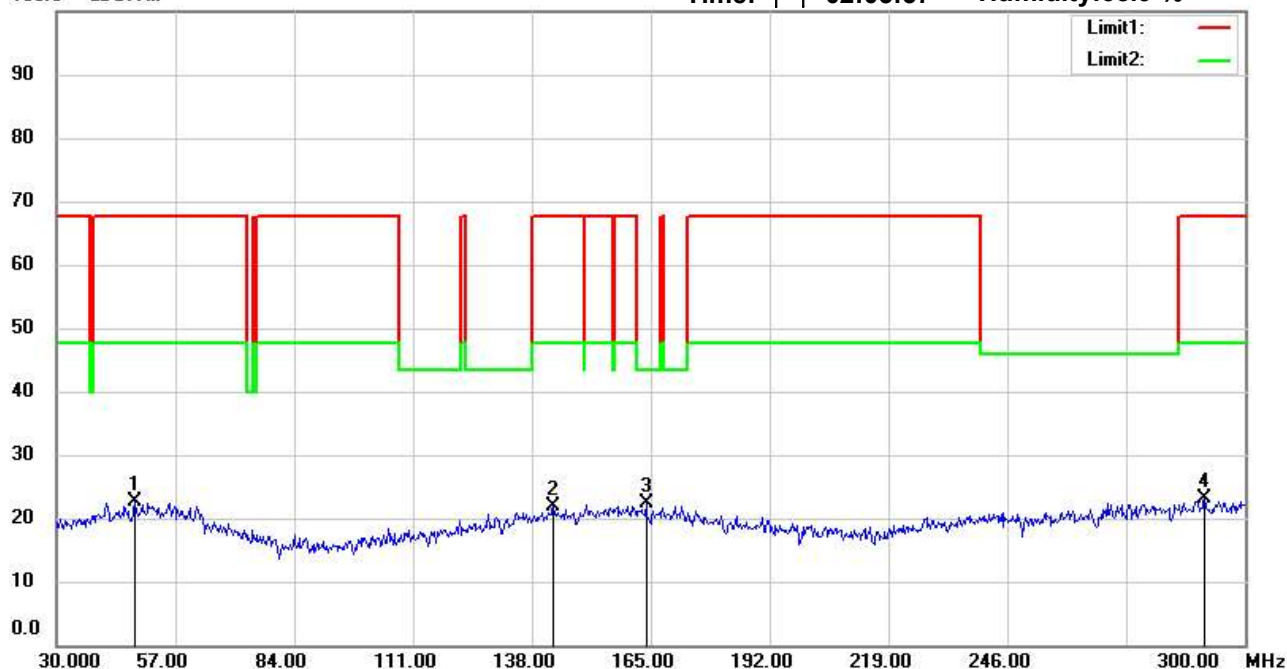
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 02:05:57

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 30-300(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	47.8200	35.45	peak	-12.85	22.60	67.66	100	23	-45.06	
	142.8600	34.51	peak	-12.71	21.80	67.66	100	188	-45.86	
*	163.9200	34.80	peak	-12.31	22.49	43.50	100	308	-21.01	
	290.8200	35.15	peak	-12.04	23.11	67.66	100	121	-44.55	

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



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Radiated Emission Measurement

Operator: Jeff

File :1

Data :#2

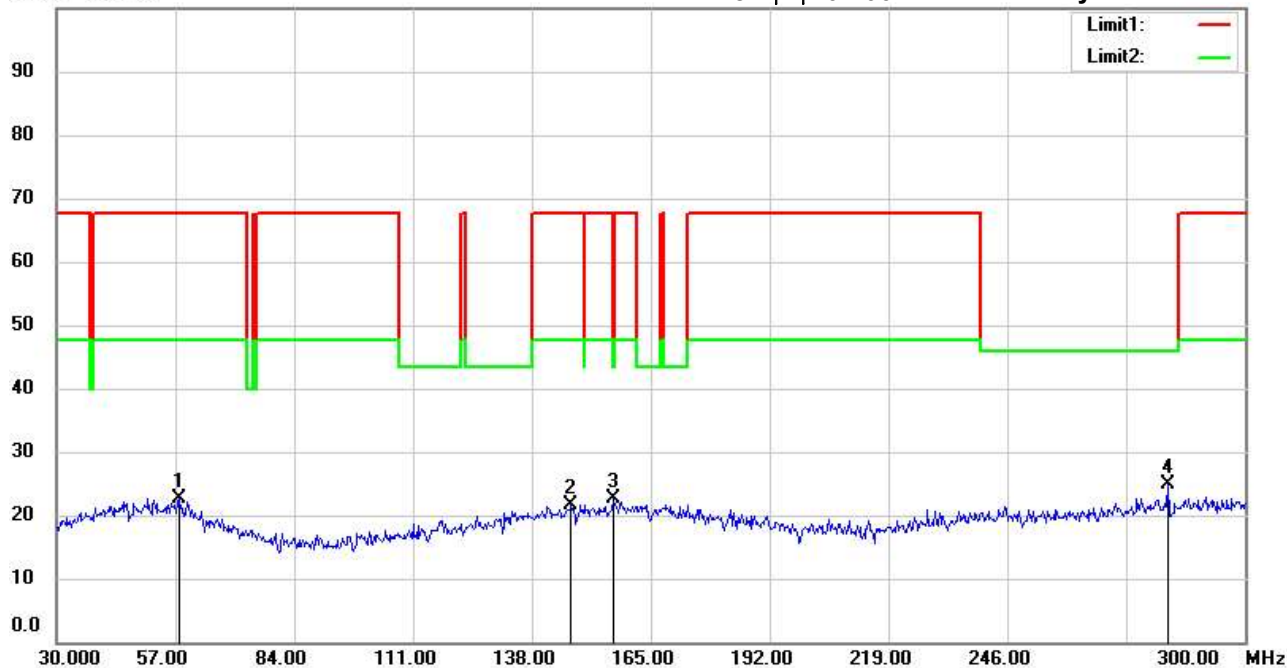
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 02:06:41

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 30-300(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	57.8100	35.32	peak	-12.73	22.59	67.66	100	2	-45.07	
	146.9100	34.26	peak	-12.53	21.73	67.66	100	148	-45.93	
	156.6300	34.72	peak	-12.10	22.62	67.66	100	165	-45.04	
*	282.4500	37.05	peak	-12.26	24.79	46.00	100	126	-21.21	

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



Radiated Emission Measurement

Operator: Jeff

File :2

Data :#1

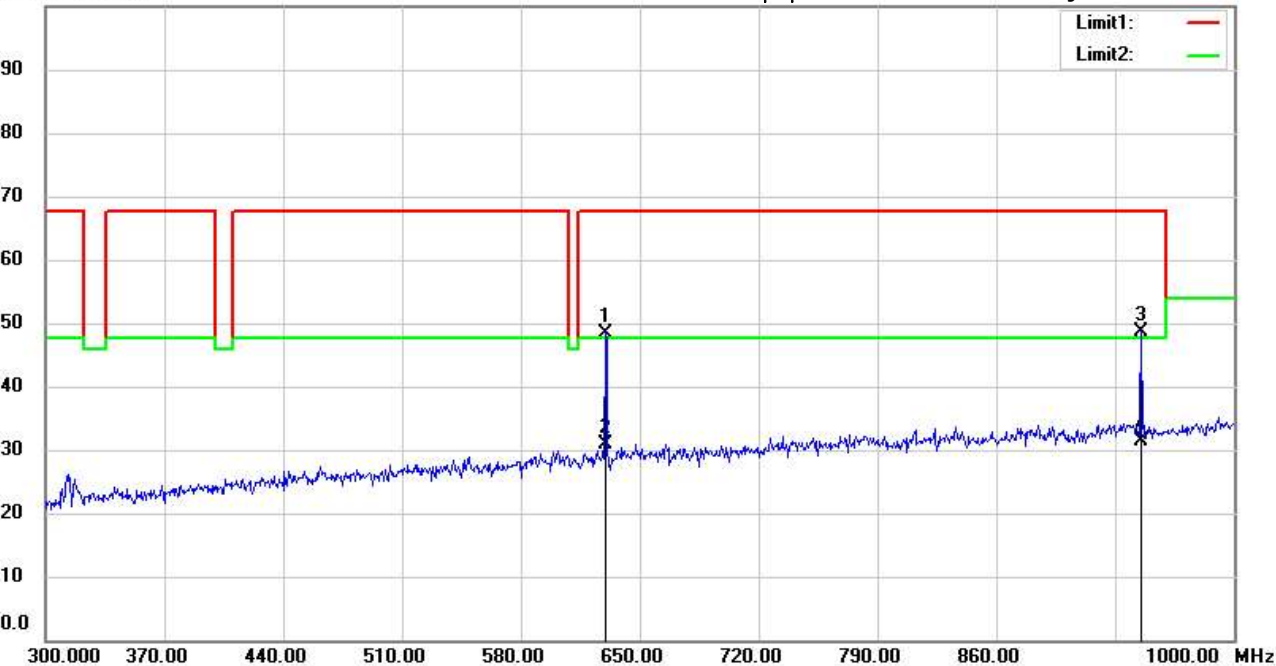
Date: 2026/4/23

Temperature:29.0 °C

100.0 dBuV/m

Time: 下午 02:07:25

Humidity:38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 300-1000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	629.7000	52.41	peak	-4.13	48.28	67.66	100	281	-19.38	
	629.7000	35.09	AVG	-4.13	30.96	47.66	100	281	-16.70	
	945.4000	49.00	peak	-0.38	48.62	67.66	100	149	-19.04	
*	945.4000	31.68	AVG	-0.38	31.30	47.66	100	149	-16.36	



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Radiated Emission Measurement

Operator: Jeff

File : 2

Data : #2

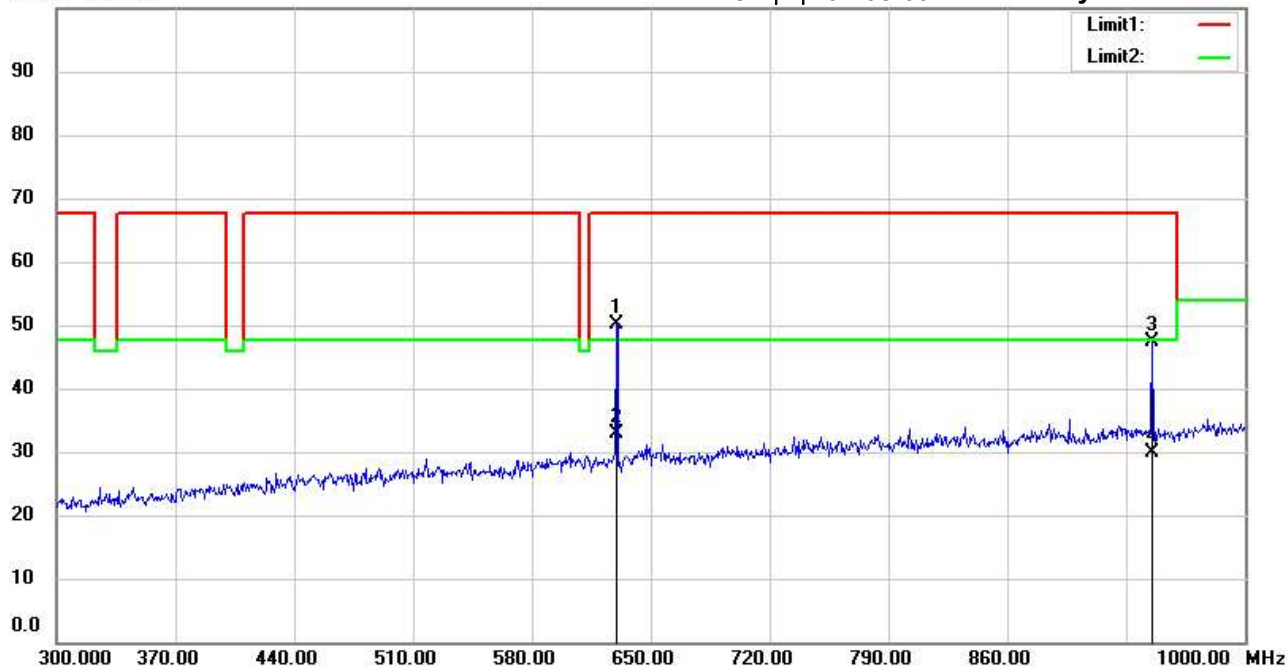
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 02:08:09

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 300-1000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	629.7000	54.33	peak	-4.13	50.20	67.66	100	1	-17.46	
*	629.7000	37.01	AVG	-4.13	32.88	47.66	100	1	-14.78	
	945.4000	47.66	peak	-0.38	47.28	67.66	100	359	-20.38	
	945.4000	30.34	AVG	-0.38	29.96	47.66	100	359	-17.70	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #1

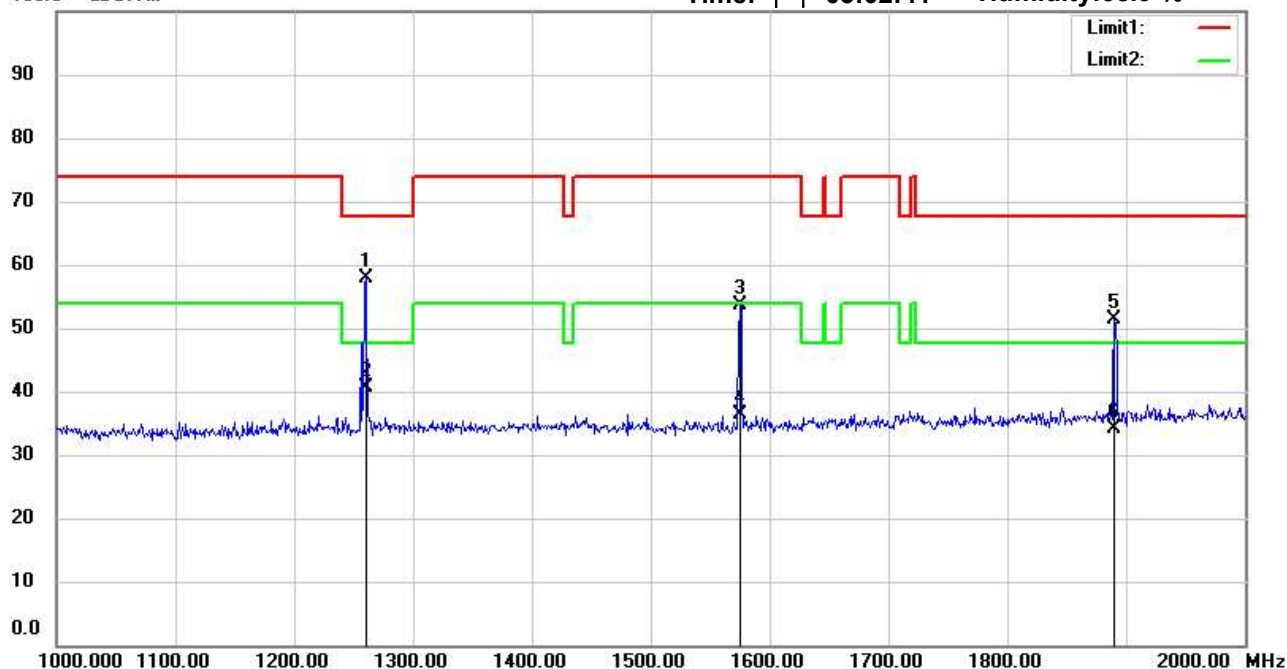
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:02:41

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 1000-2000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	1260.000	66.02	peak	-8.19	57.83	67.66	150	221	-9.83	
*	1260.000	48.70	AVG	-8.19	40.51	47.66	150	221	-7.15	
	1575.000	61.17	peak	-7.59	53.58	74.00	150	158	-20.42	
	1575.000	43.85	AVG	-7.59	36.26	54.00	150	158	-17.74	
	1890.000	57.66	peak	-6.19	51.47	67.66	150	39	-16.19	
	1890.000	40.34	AVG	-6.19	34.15	47.66	150	39	-13.51	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #3

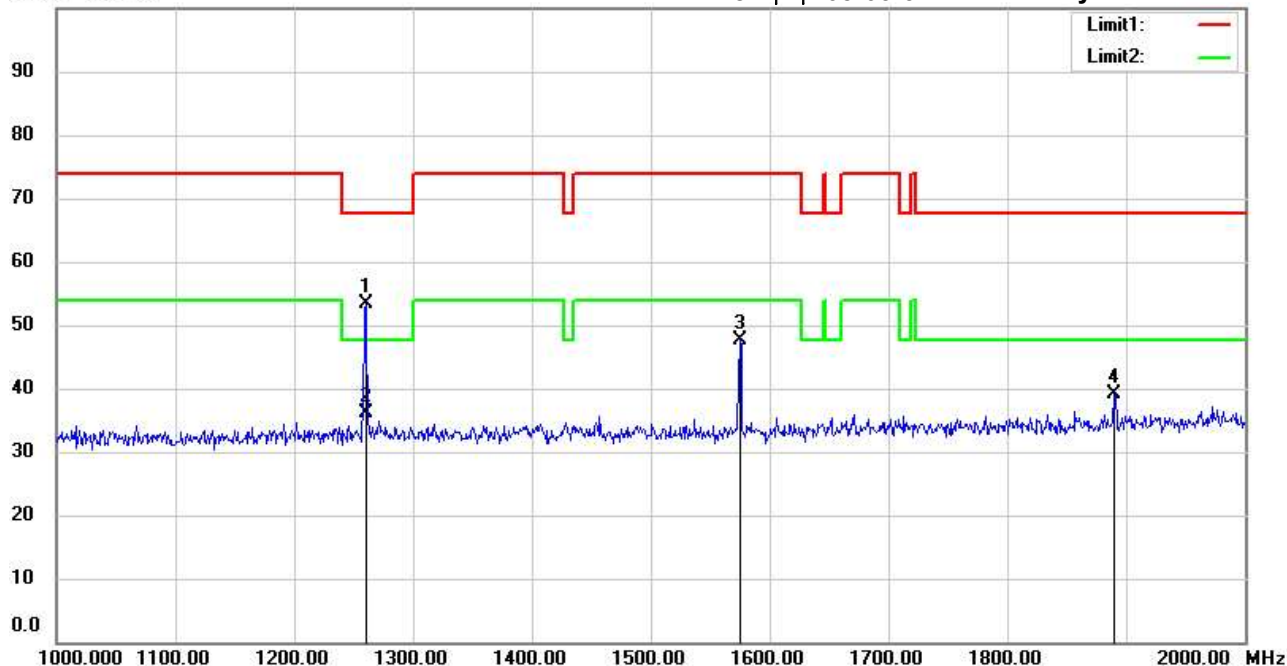
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:03:32

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 1000-2000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	1260.000	61.60	peak	-8.19	53.41	67.66	150	139	-14.25	
*	1260.000	44.28	AVG	-8.19	36.09	47.66	150	139	-11.57	
	1575.000	55.32	peak	-7.59	47.73	74.00	150	104	-26.27	
	1890.000	45.31	peak	-6.19	39.12	67.66	150	88	-28.54	

*: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: Jeff

File : 3

Data : #2

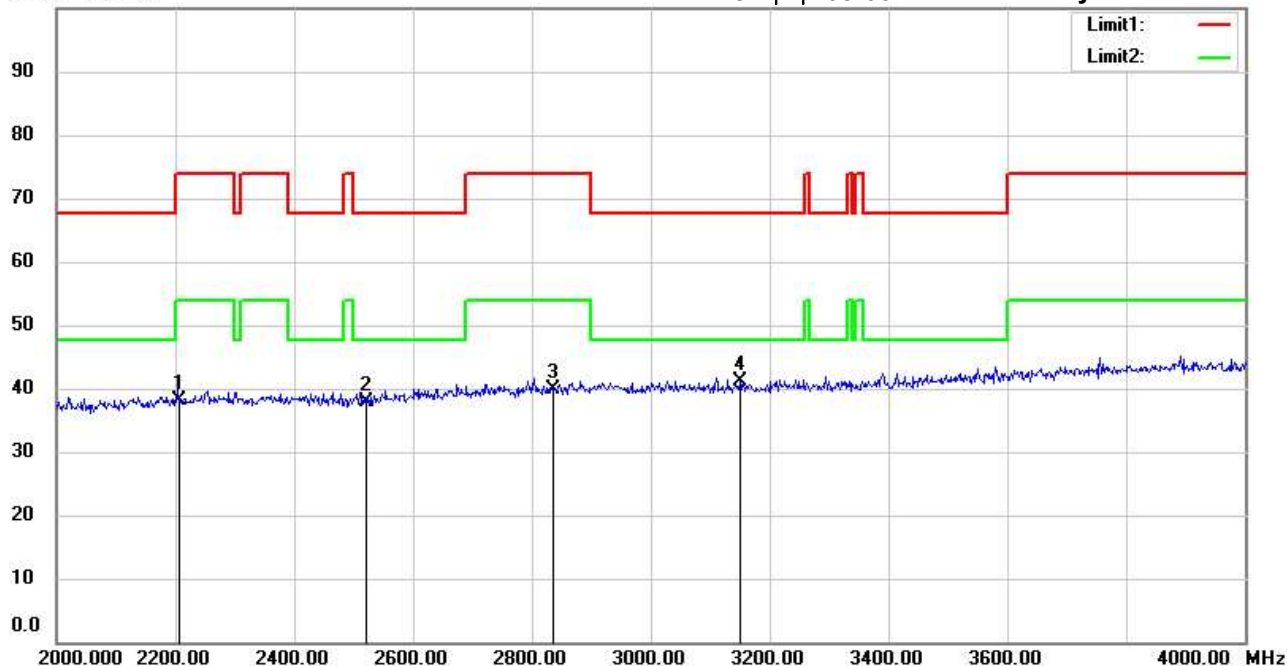
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:03:22

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 2000-4000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	2205.000	42.11	peak	-3.88	38.23	74.00	150	309	-35.77	
	2520.000	41.72	peak	-3.88	37.84	67.66	150	53	-29.82	
	2835.000	41.84	peak	-2.08	39.76	74.00	150	162	-34.24	
*	3150.000	42.56	peak	-1.53	41.03	67.66	150	13	-26.63	

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



Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #4

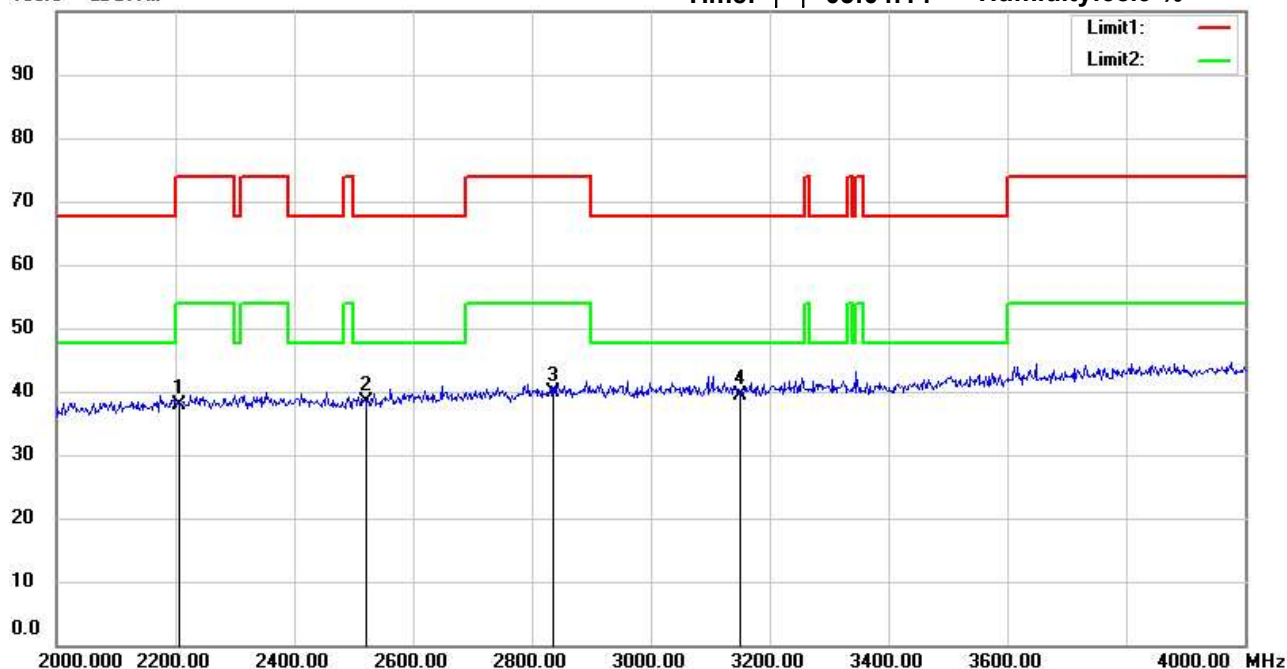
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:04:14

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(315MHz) 2000-4000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 315MHz

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
	2205.000	41.83	peak	-3.88	37.95	74.00	150	102	-36.05	
	2520.000	42.22	peak	-3.88	38.34	67.66	150	170	-29.32	
	2835.000	41.92	peak	-2.08	39.84	74.00	150	96	-34.16	
*	3150.000	40.83	peak	-1.53	39.30	67.66	150	222	-28.36	



Radiated Emission Measurement

Operator: Jeff

File :1

Data :#1

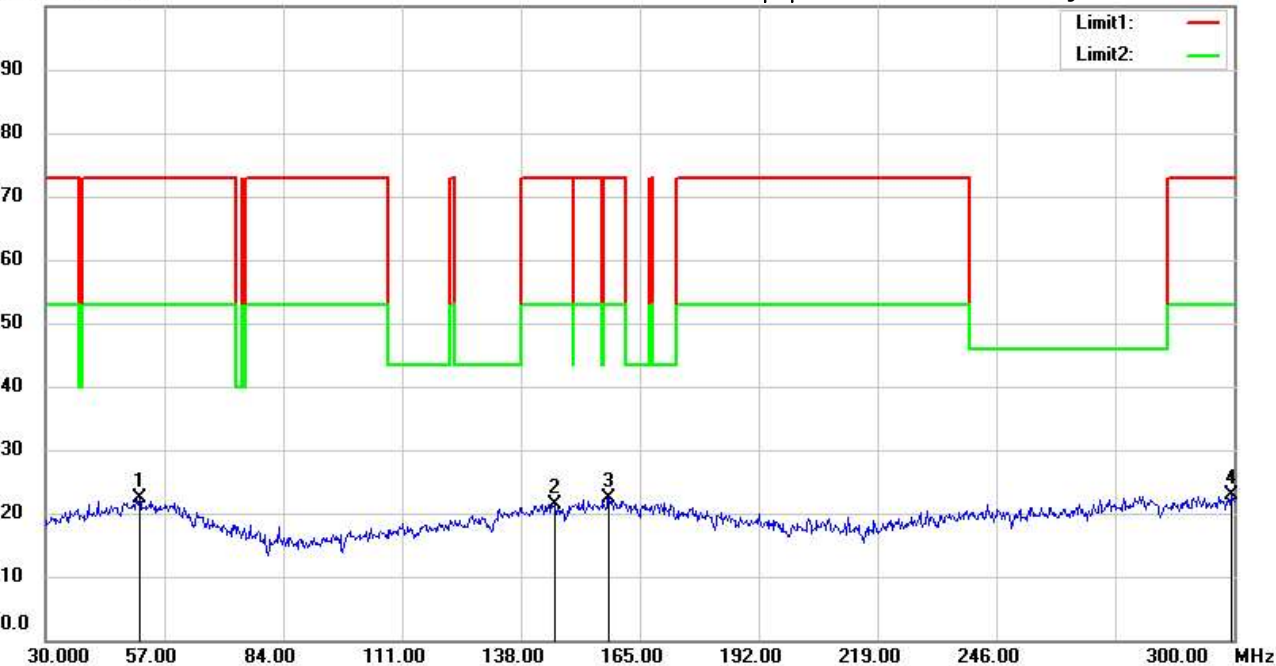
Date: 2026/4/23

Temperature:29.0 °C

100.0 dBuV/m

Time: 下午 01:25:58

Humidity:38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 30-300(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	51.3300	34.88	peak	-12.62	22.26	72.80	100	91	-50.54	
	145.5600	33.97	peak	-12.59	21.38	72.80	100	102	-51.42	
	157.9800	34.39	peak	-12.04	22.35	72.80	100	56	-50.45	
*	299.4600	34.72	peak	-11.80	22.92	72.80	100	180	-49.88	



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

Operator: Jeff

File :1

Data :#2

Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 01:26:41

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 30-300(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	48.6300	35.02	peak	-12.76	22.26	72.80	100	325	-50.54	
	144.7500	35.18	peak	-12.63	22.55	72.80	100	152	-50.25	
*	164.1900	34.39	peak	-12.33	22.06	43.50	100	212	-21.44	
	292.9800	35.69	peak	-11.98	23.71	72.80	100	246	-49.09	

*: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: Jeff

File : 2

Data : #1

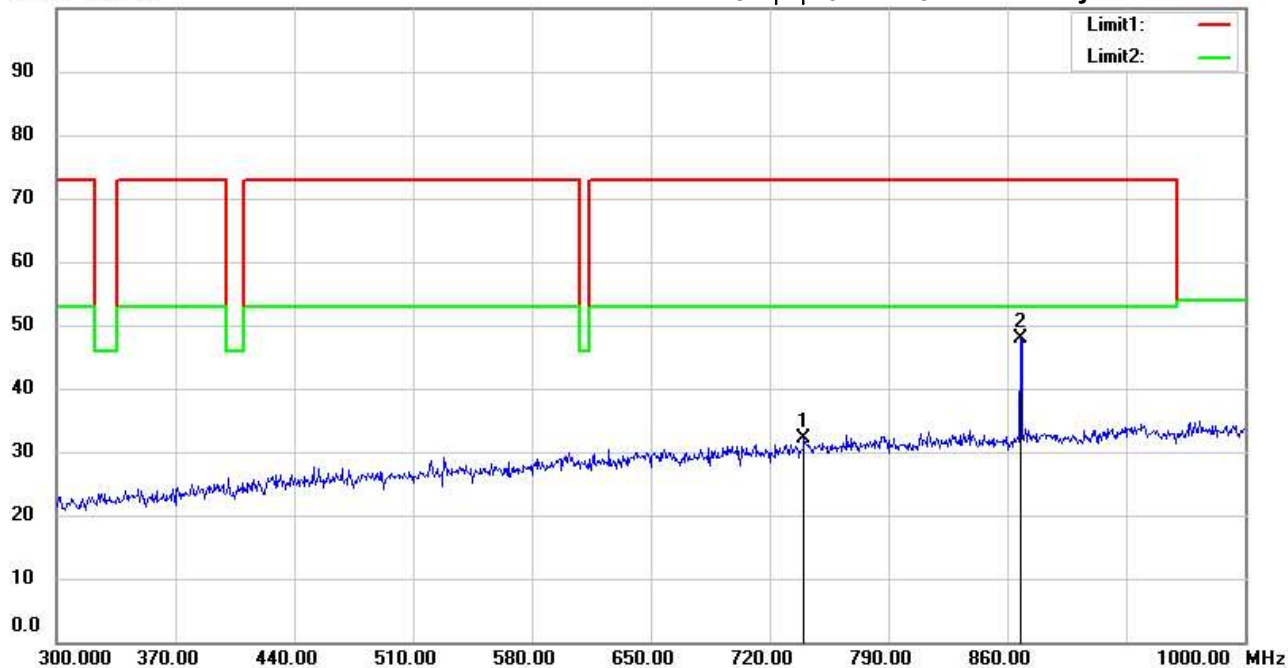
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 01:27:25

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	740.3000	34.49	peak	-2.30	32.19	72.80	100	280	-40.61	
*	867.7000	49.10	peak	-1.10	48.00	72.80	100	201	-24.80	

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



Radiated Emission Measurement

Operator: Jeff

File :2

Data :#2

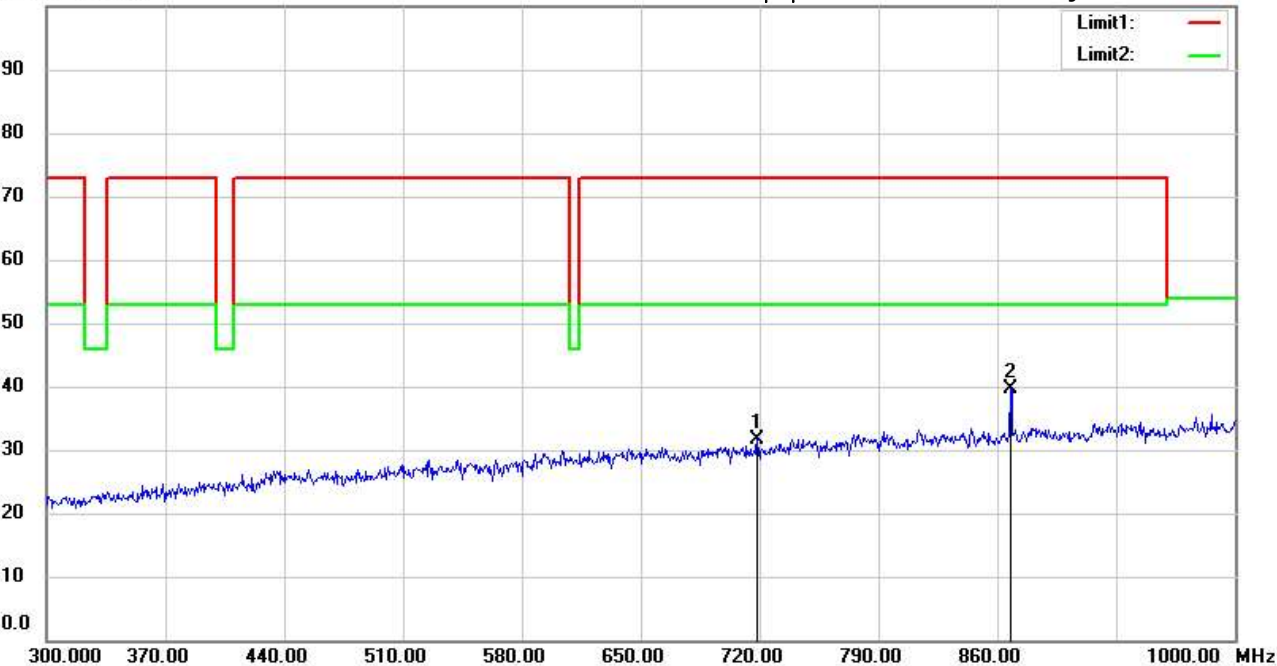
Date: 2026/4/23

Temperature:29.0 °C

100.0 dBuV/m

Time: 下午 01:28:10

Humidity:38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	718.6000	34.34	peak	-2.78	31.56	72.80	100	36	-41.24	
*	867.7000	40.84	peak	-1.10	39.74	72.80	100	220	-33.06	



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #1

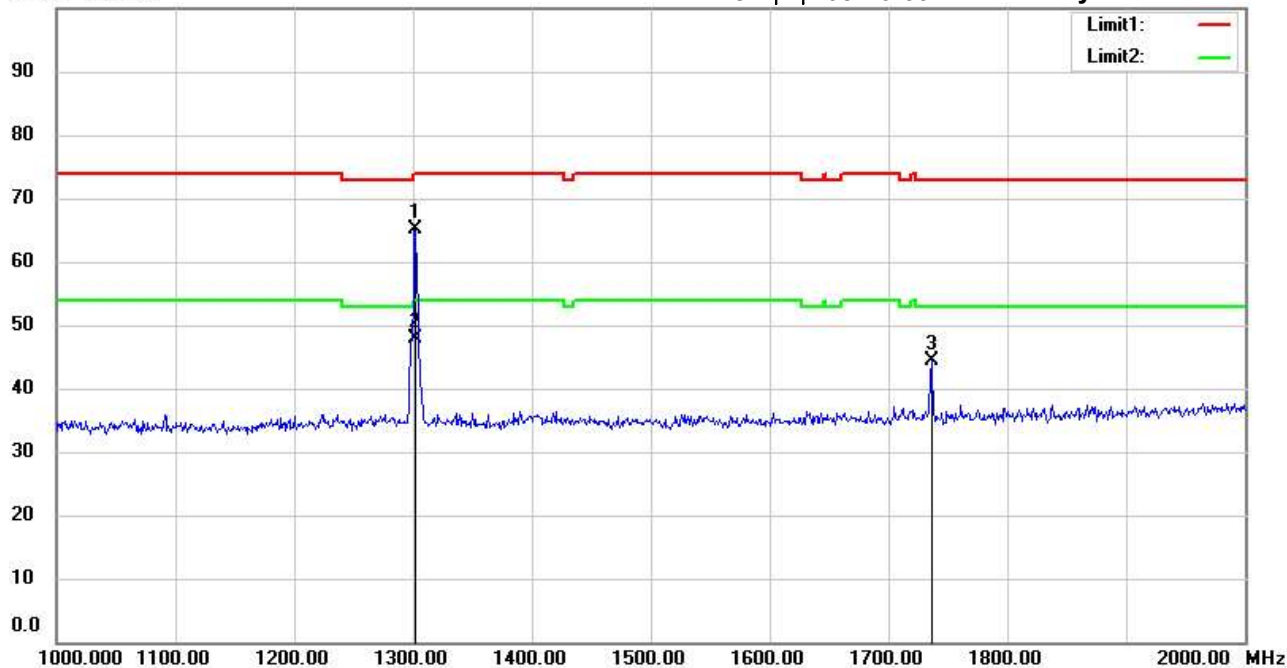
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:20:39

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	1302.000	73.12	peak	-7.90	65.22	74.00	150	36	-8.78	
*	1302.000	55.70	AVG	-7.90	47.80	54.00	150	36	-6.20	
	1736.000	51.30	peak	-6.93	44.37	72.80	150	201	-28.43	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #4

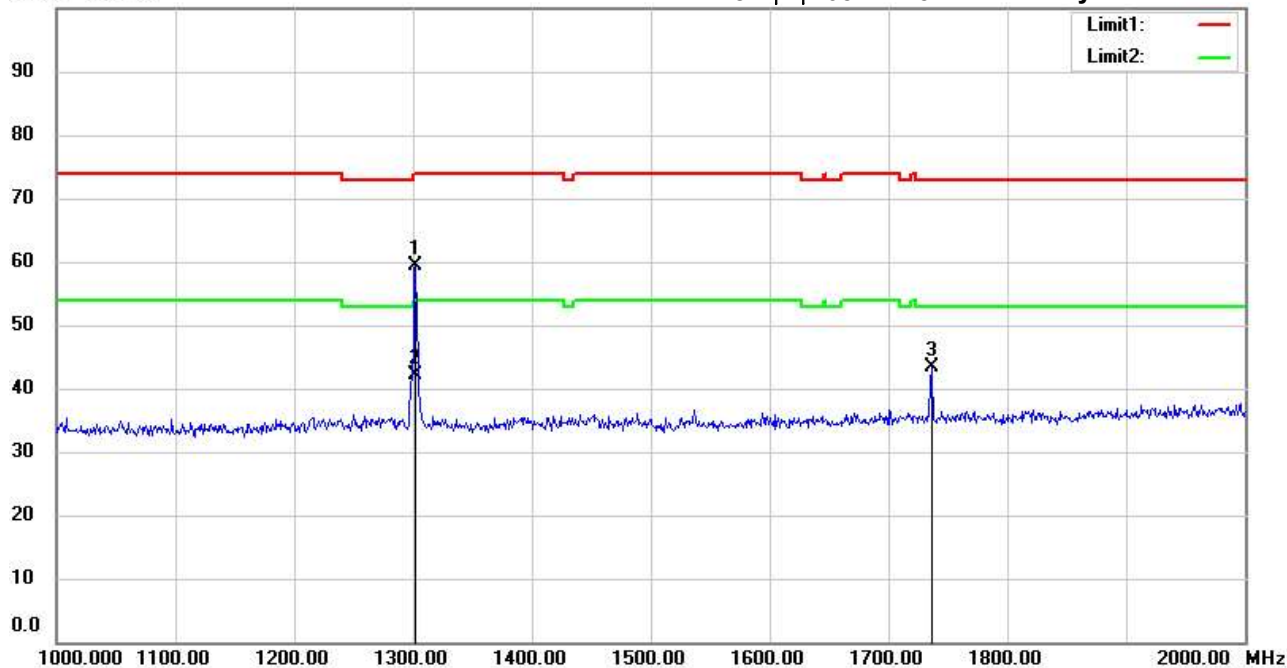
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:22:45

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	1302.000	67.34	peak	-7.90	59.44	74.00	150	51	-14.56	
*	1302.000	49.92	AVG	-7.90	42.02	54.00	150	51	-11.98	
	1736.000	50.30	peak	-6.93	43.37	72.80	150	294	-29.43	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #2

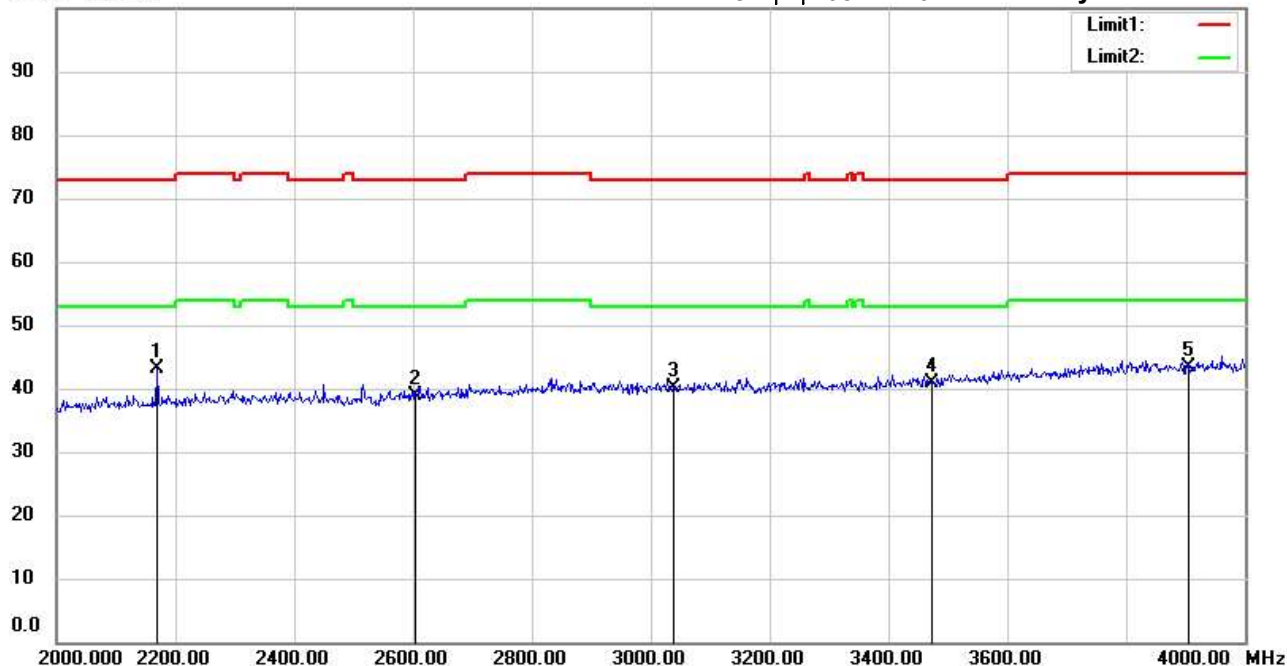
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:21:20

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
*	2170.000	47.23	peak	-4.10	43.13	72.80	150	93	-29.67	
	2603.520	41.99	peak	-3.16	38.83	72.80	150	318	-33.97	
	3037.440	41.73	peak	-1.71	40.02	72.80	150	54	-32.78	
	3471.360	41.77	peak	-0.86	40.91	72.80	150	219	-31.89	
	3905.280	41.43	peak	1.92	43.35	74.00	150	137	-30.65	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #5

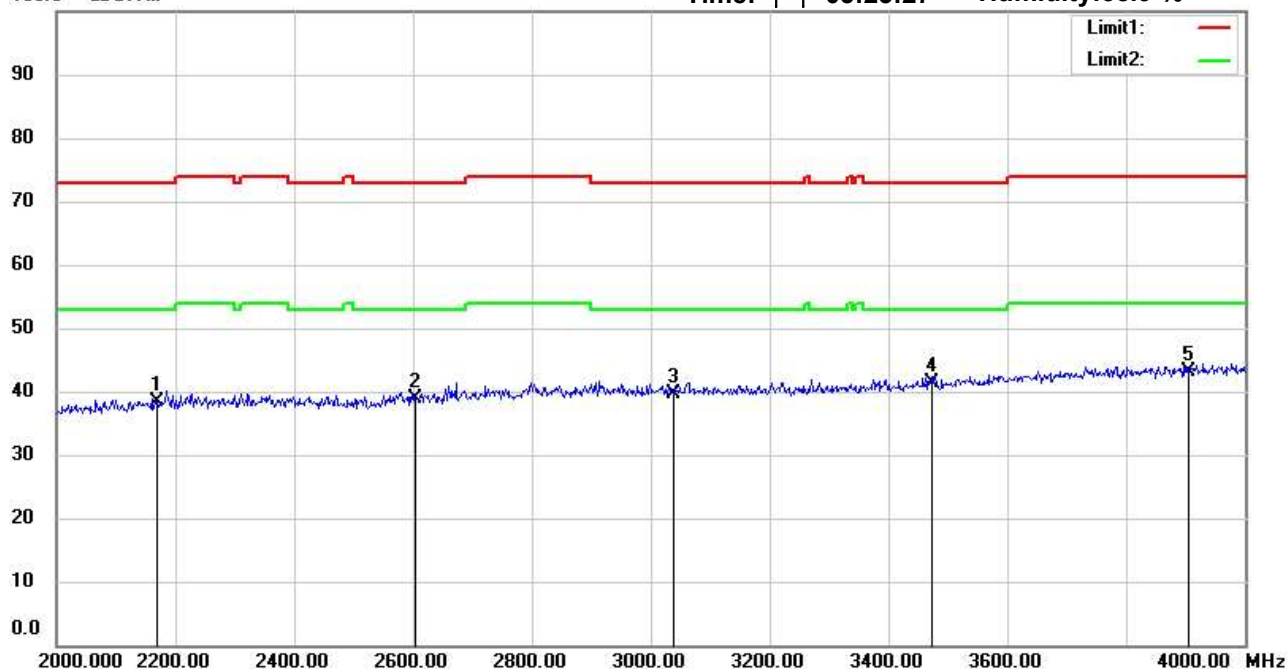
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:23:27

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)<e>

EUT : W6M22604-25074

M/N:

Test Mode : TX 433.92MHz

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
	2169.600	42.48	peak	-4.10	38.38	72.80	150	136	-34.42	
	2603.520	42.09	peak	-3.16	38.93	72.80	150	89	-33.87	
	3037.440	41.29	peak	-1.71	39.58	72.80	150	217	-33.22	
	3471.360	42.14	peak	-0.86	41.28	72.80	150	14	-31.52	
*	3905.280	41.21	peak	1.92	43.13	74.00	150	73	-30.87	

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



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Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #3

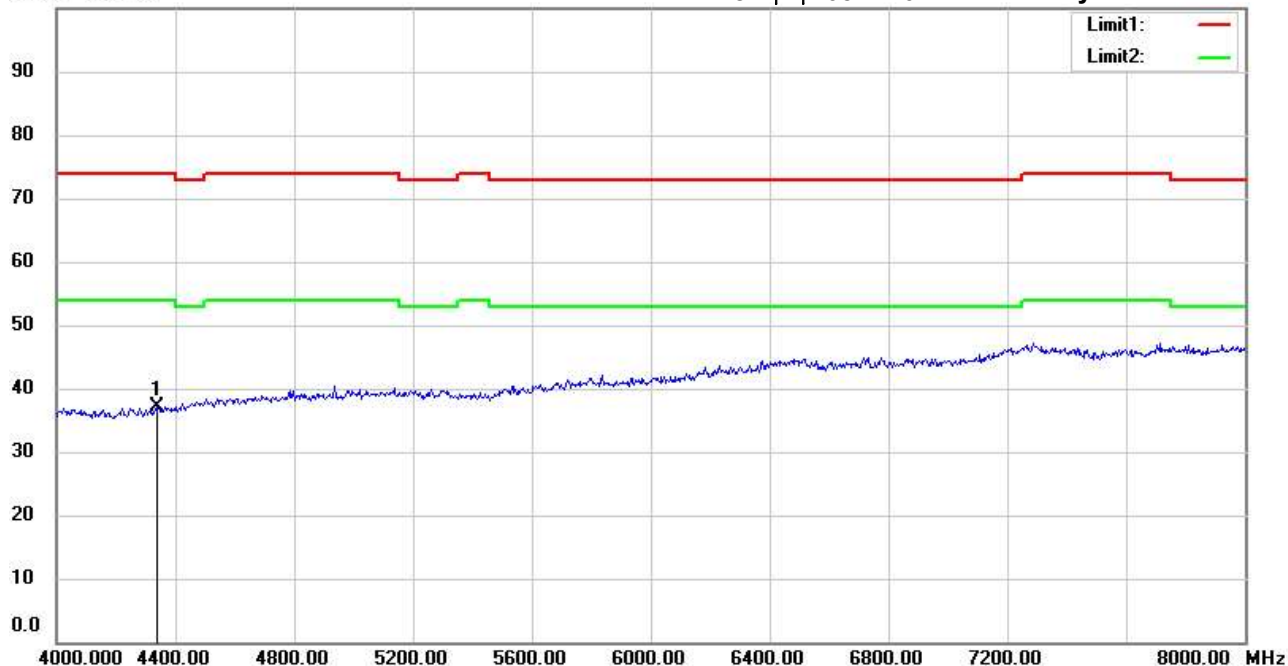
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:22:01

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)<e>

Polarization: **Horizontal**

EUT : W6M22604-25074

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.92MHz

Note :

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
*	4339.200	34.32	peak	2.71	37.03	74.00	150	219	-36.97	

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



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Radiated Emission Measurement

Operator: Jeff

File : 3

Data : #6

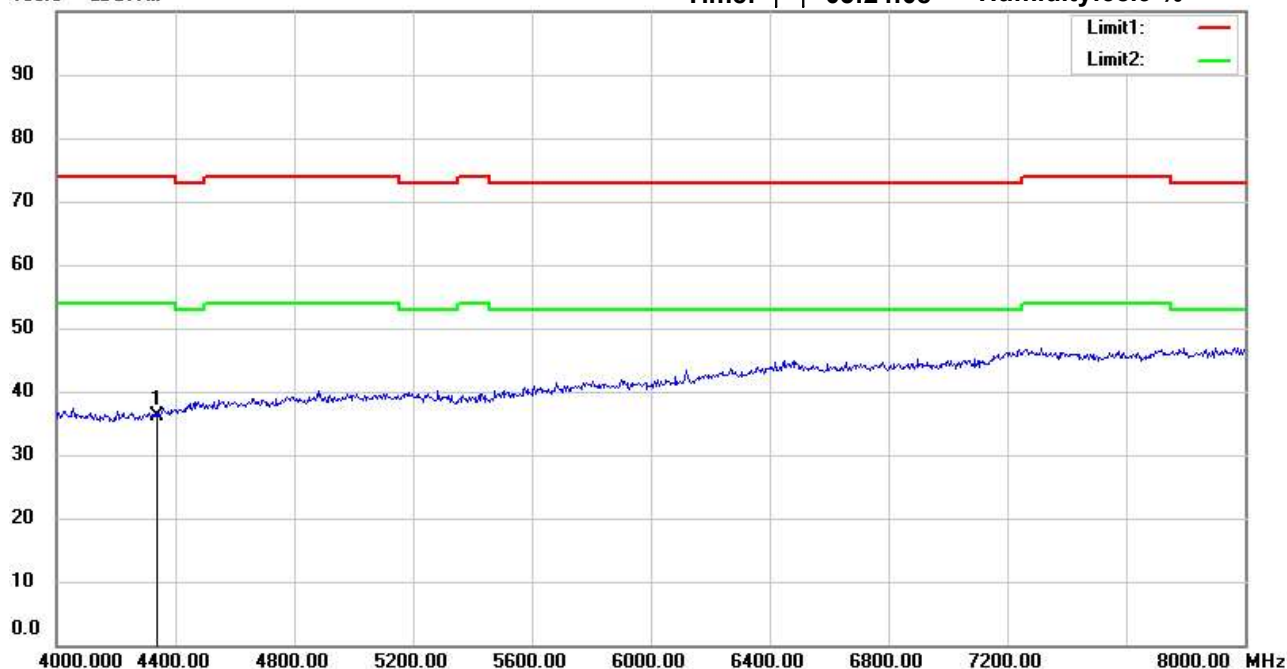
Date: 2026/4/23

Temperature: 29.0 °C

100.0 dBuV/m

Time: 下午 05:24:08

Humidity: 38.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)<e>

Polarization: Vertical

EUT : W6M22604-25074

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.92MHz

Note :

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
*	4339.200	33.42	peak	2.71	36.13	74.00	150	13	-37.87	

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