

47 CFR PART 15 SUBPART C TEST REPORT

for

GeoVision

Model No.: SP-LT

FCC ID: 2BODE-SP-LT-01

of

Applicant: Tensar Corporation

Address: 2500 NORTHWINDS PARKWAY SUITE 500
ALPHARETTA , GA 30009 United States

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.: W6M22501-24046-C-1

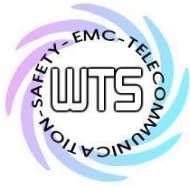
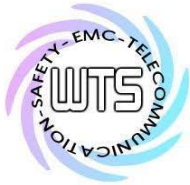


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1 General Information

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 15, 2025

Sora Kuo

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 15, 2025

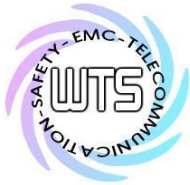
Kevin Wang

Date

WTS

Name

Signature



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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: Tensar Corporation

Street: 2500 NORTHWINDS PARKWAY SUITE 500 ALPHARETTA ,

Town: GA 30009

Country: United States

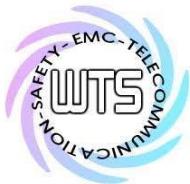
Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.



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1.4 Application details

Date of receipt of test item: January 08, 2025

Date of test: from January 09, 2025 to February 19, 2025

1.5 General information of Test item

Type of test item: GeoVision

Model no.: SP-LT

Multi-listing model no.: ./.

Brand name: Tensar

Power supply: Battery 3.6Vd.c.

Technical data

Mode	Channel	Conducted Power (dBm)
2.4GHz	2412 MHz	10.68
	2437 MHz	10.77
	2456 MHz	10.94
900M	902.3 MHz	-14.82
	907.7 MHz	-14.86
	912.9 MHz	-14.89

Type of antenna: MULTIBAND CHIP antenna

Antenna gain: 2.4GHz: 1.9 dBi / 900M: 2.3dBi

Operation modes: Duplex

Modulation type: CCS, GFSK (For 915 MHz it is CCS, For 2.4 GHz it is GFSK)

Sample no.: #01

1.5 Duty cycle and factor

The duty factor is computed as $[10 \log (1 / D)]$, where D is the duty cycle.

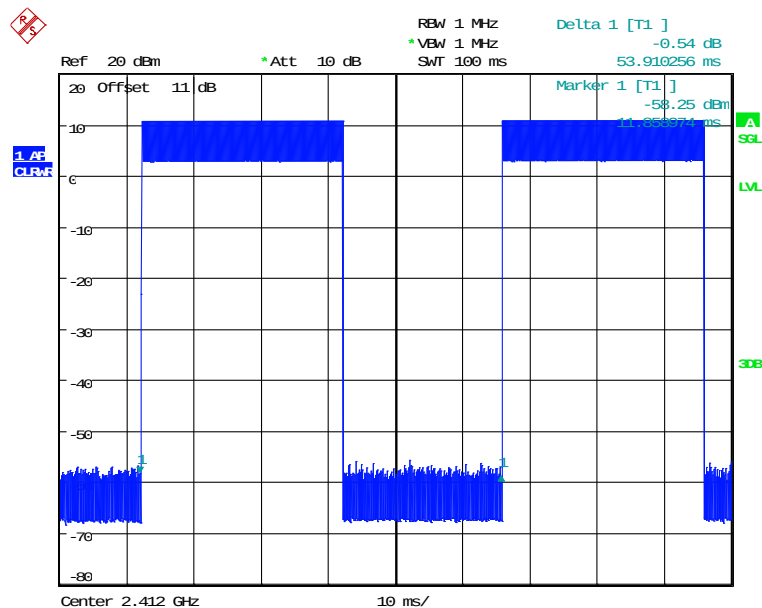
Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle(%)	1/T - VBW(kHz)
2.4G	30.51	53.91	56.59%	0.03



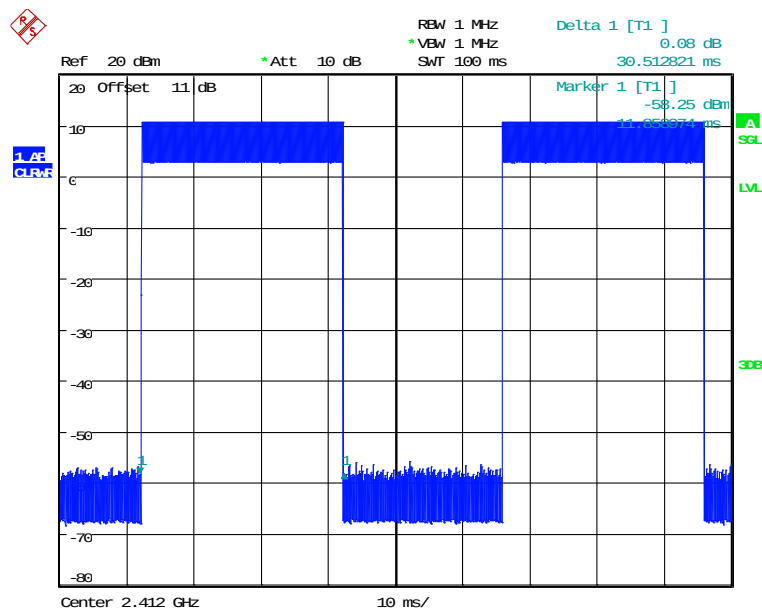
Registration number: W6M22501-24046-C-1

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Duty cycle plot



DUTY
Date: 16.FEB.2025 10:21:54



DUTY
Date: 16.FEB.2025 10:22:03

1.6 Test standards

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

ANSI C63.10



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2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 0.94 dB Voltage probe : 0.96 dB Include Pulse Limiter : 1.5 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Transmitter Radiated Emissions in Restricted Bands, Spurious Emissions (tx), Radiated Emission from Digital Part)	Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 3.20 dB 1-18 GHz : 3.56 dB 18-40 GHz : 2.94 dB
Estimation Result of Uncertainty of Bandwidth Measurement (20 dB Bandwidth, Minimum 6 dB Bandwidth)	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Power Density Measurement (Peak Power Spectral Density)	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Band Edge Measurement (Radiated Emission on the band edge)	Expanded Uncertainty : 0.67 dBc
Estimation Result of Uncertainty of Frequency Separation Measurement (Carrier Frequency Separation, Number of Hopping Frequencies)	Expanded Uncertainty : 554.14 Hz
Estimation Result of Uncertainty of Duty Cycle Measurement (Time of Occupancy (Dwell Time))	Expanded Uncertainty : 0.1 ms

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



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2.3 Test Equipment List

900M

Max Output Power&20DB BANDWIDTH&BANDEDGE&

FREQUENCY SEPARATION&NUMBER OF HOPPING&DWELL TIME&

Occupied BANDWIDTH

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	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

2.4G

Max Output Power&6DB Bandwidth&Bandedge&Power Density&Duty&

Occupied BANDWIDTH

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	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

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	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/2/14	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK & EMC	2024/3/4	2025/3/3
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2024/2/29	2025/2/28
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 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.

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

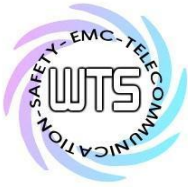
The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (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.

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



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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:

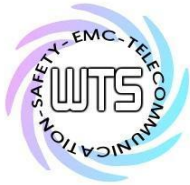
Average = Peak + Duty Factor

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

T = 100ms 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.



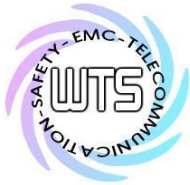
Worldwide Testing Services(Taiwan) Co., Ltd.

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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent isotropically radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(d):15.209	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.247	☐	☐	☐
Carrier Frequency Separation	15.247(a) (1)	☒	☒	☐
Number of Hopping Frequencies	15.247(a) (1)(i)	☒	☒	☐
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	☒	☒	☐
20 dB Bandwidth	15.247(a) (1)(i)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Band-edge Compliance of RF Emission	15.247(d)	☒	☒	☐
Peak Power Spectral Density	15.247(e)	☒	☒	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207(a)	☐	☐	☐



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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

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: February 16, 2025

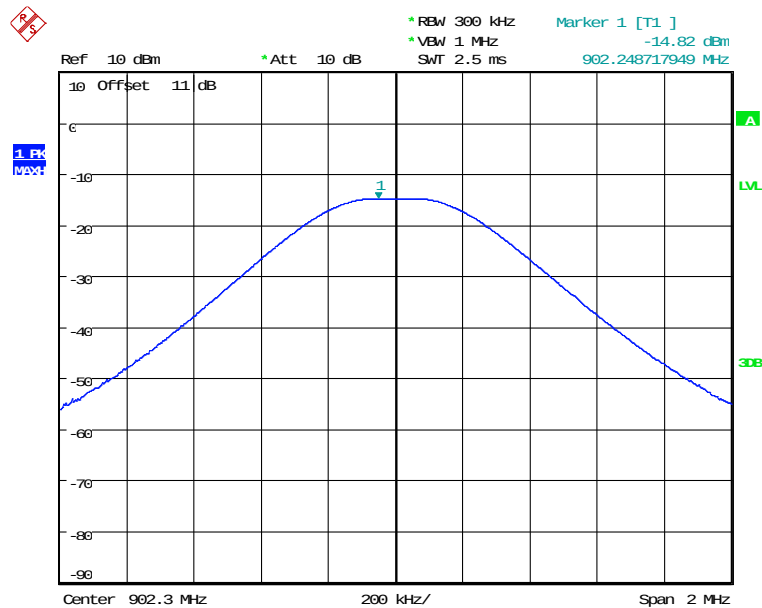
Temperature: 25.7 °C

Humidity: 56.0 %

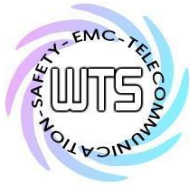
Tester: Sora

900M

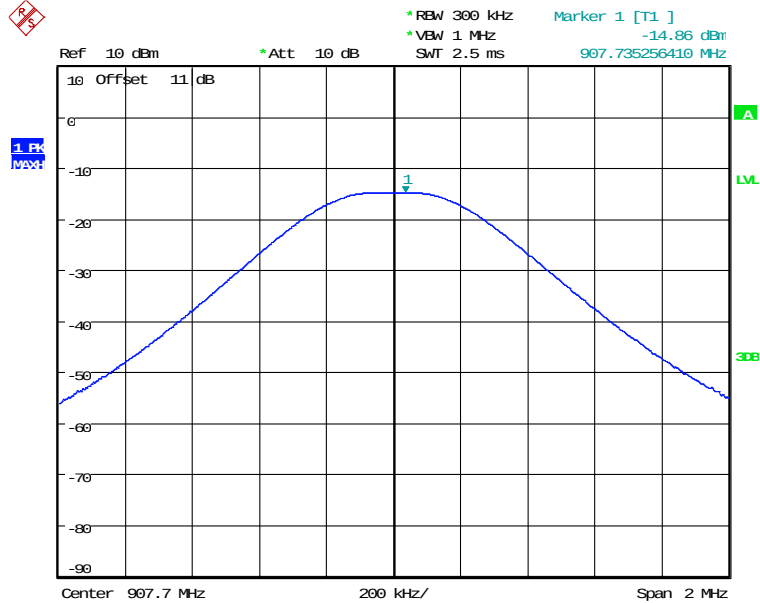
Band	Channel	Power (dBm)	Limit (dBm)
900M	902.3 MHz	-14.82	30
	907.7 MHz	-14.86	30
	912.9 MHz	-14.89	30



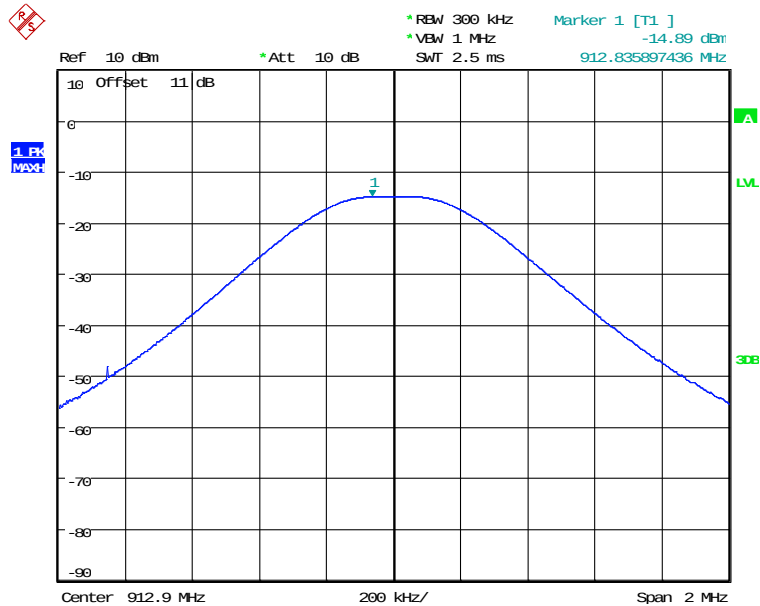
MAX OUTPUT POWER 902.3MHz
Date: 16.FEB.2025 10:35:15



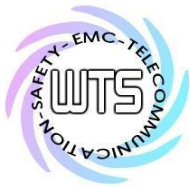
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



MAX OUTPUT POWER 907.7MHz
Date: 16.FEB.2025 10:36:56



MAX OUTPUT POWER 912.9MHz
Date: 16.FEB.2025 10:37:51



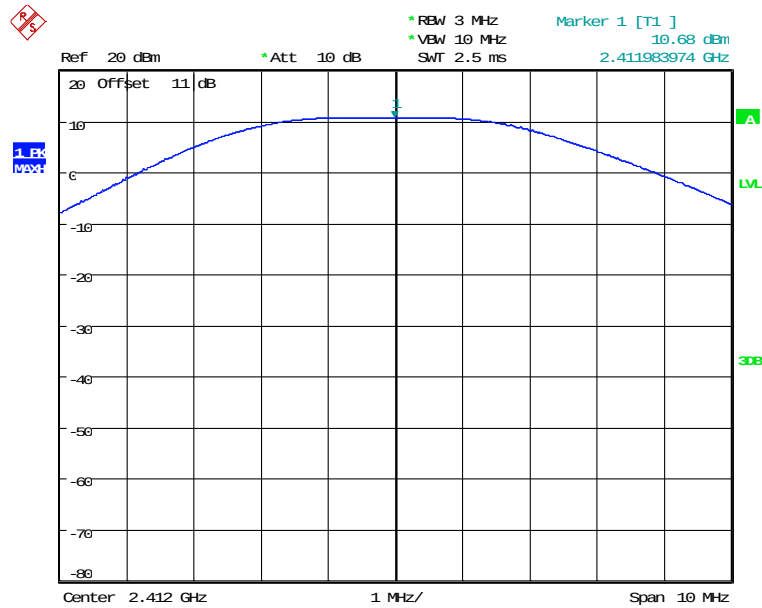
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22501-24046-C-1

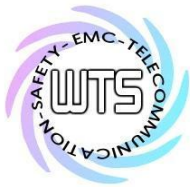
FCC ID: 2BODE-SP-LT-01

2.4GHz

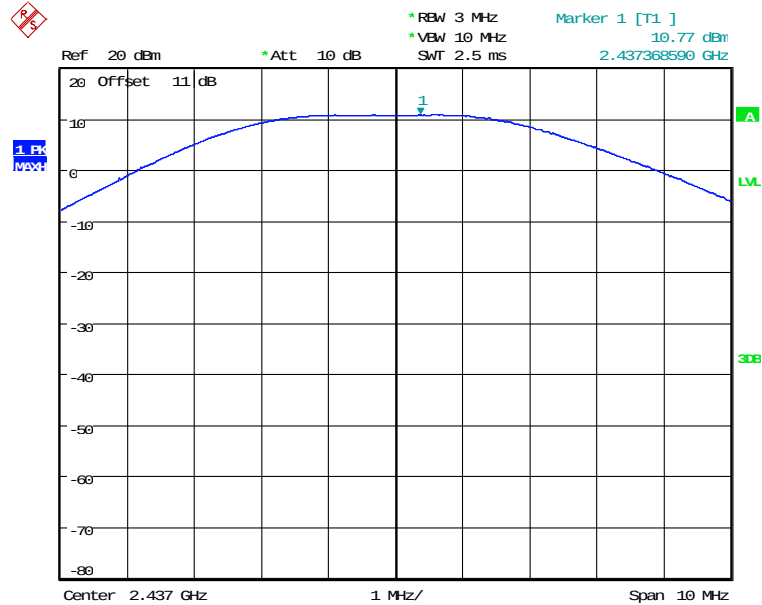
Band	Mode	Channel	Power (dBm)	Limit (dBm)
2.4GHz	2.4GHz	2412 MHz	10.68	30
		2437 MHz	10.77	30
		2456 MHz	10.94	30



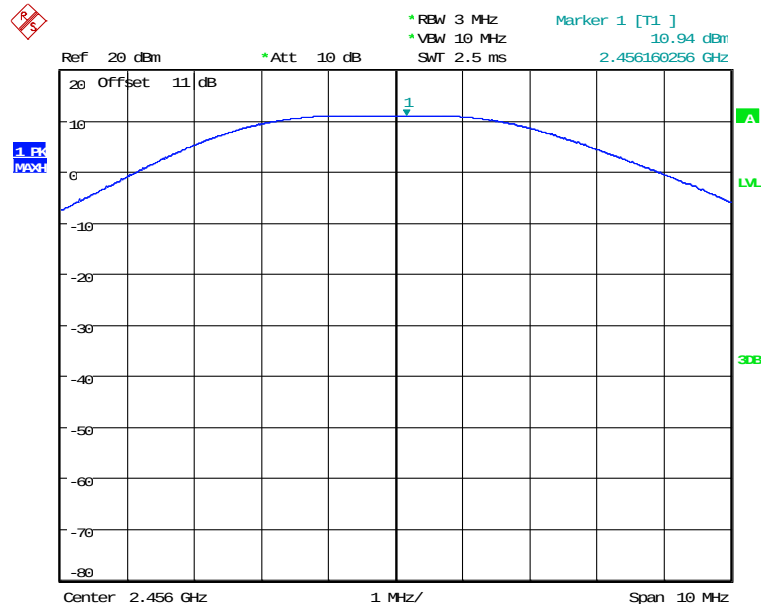
MAX OUTPUT POWER 2412MHz
Date: 16.FEB.2025 09:59:50



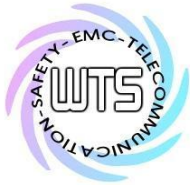
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



MAX OUTPUT POWER 2437MHz
Date: 16.FEB.2025 09:54:48



MAX OUTPUT POWER 2456MHz
Date: 16.FEB.2025 09:46:06



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Limits:

Frequency (MHz)	Power (dBm)
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 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 26500 MHz.

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

Frequency $\leq$ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 10 Hz (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	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

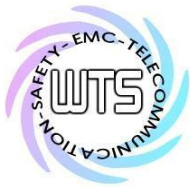
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total 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 = $20 \log (\text{dwell time} / 100\text{ms})$

Note: No duty cycle correction was added to the reading of this EUT.

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))

FCC Rule: 15.247(c), 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.

Limits:

For frequencies above 1GHz (Peak measurements).

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

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

Max. reading – 20 dB

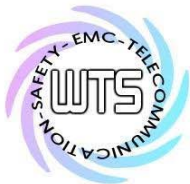
Guidance on Measurement of Digit Transmission Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total 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 = $20 \log (\text{dwell time}/100\text{ms})$

Note: No duty cycle correction was added to the reading of EUT.



Worldwide Testing Services(Taiwan) Co., Ltd.

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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with 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 and 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 "Correction Factor".

Summary table with radiated data of the test plots

Model: SP-LT Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

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

Polarization: Vertical

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

- 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. Please see attached diagrams in appendix.

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



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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.

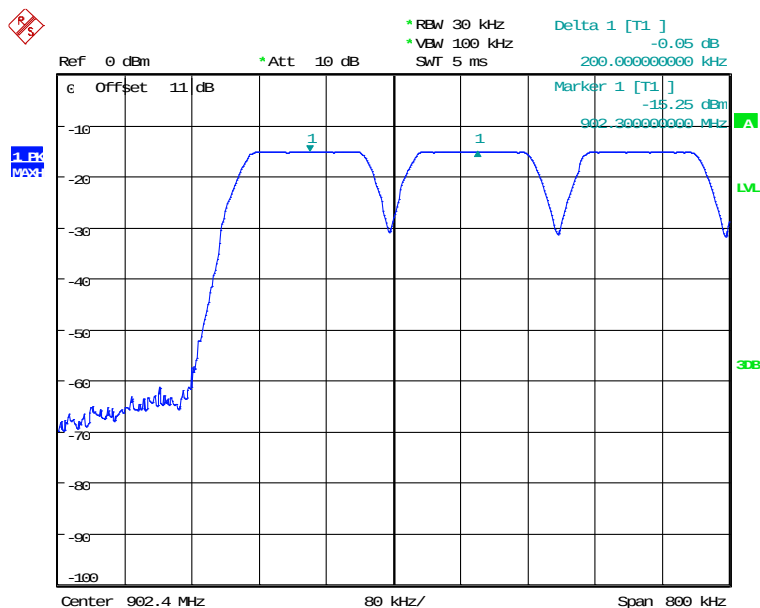
Test date: February 16, 2025

Temperature: 25.7 °C

Humidity: 56.0 %

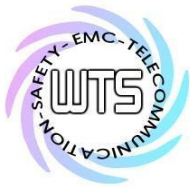
Tester: Sora

900M



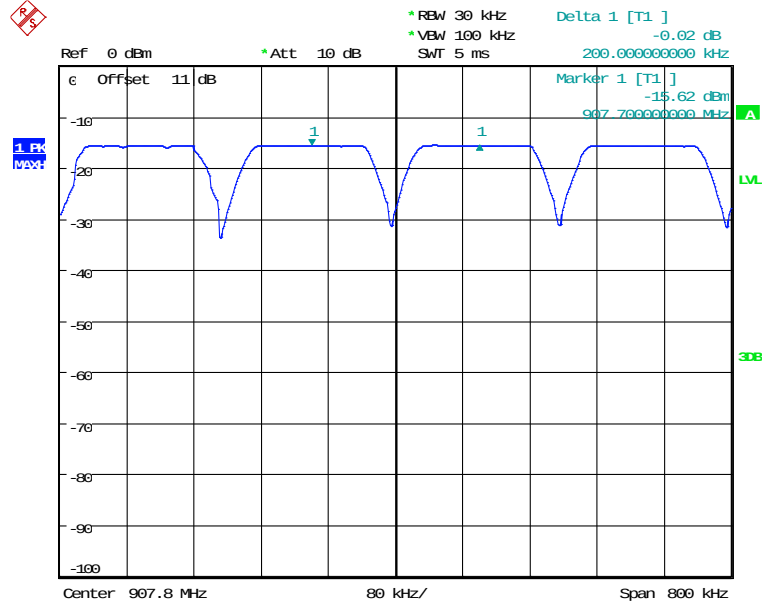
FREQUENCY SEPARATION 902.3MHz

Date: 16.FEB.2025 16:34:29

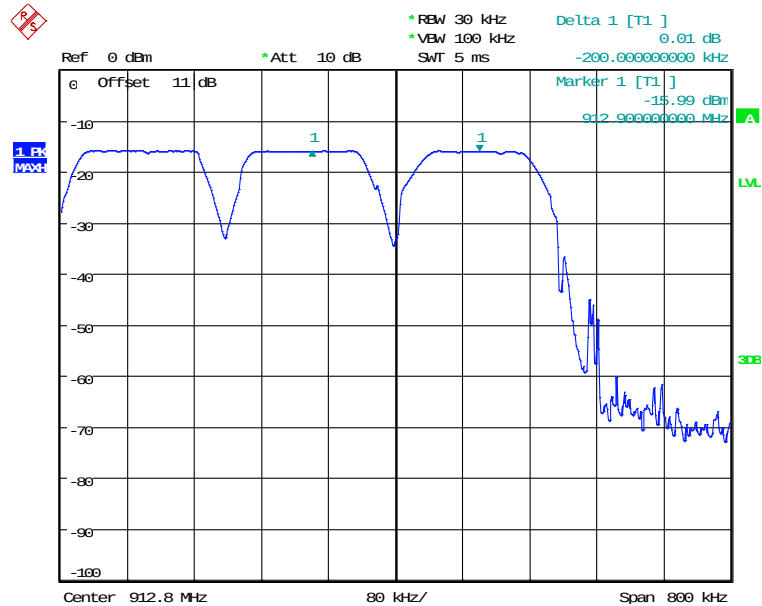


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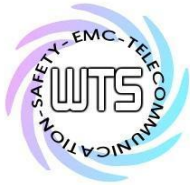
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



FREQUENCY SEPARATION 907.7MHz
Date: 16.FEB.2025 16:29:48



FREQUENCY SEPARATION 912.9MHz
Date: 16.FEB.2025 15:49:22



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

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.

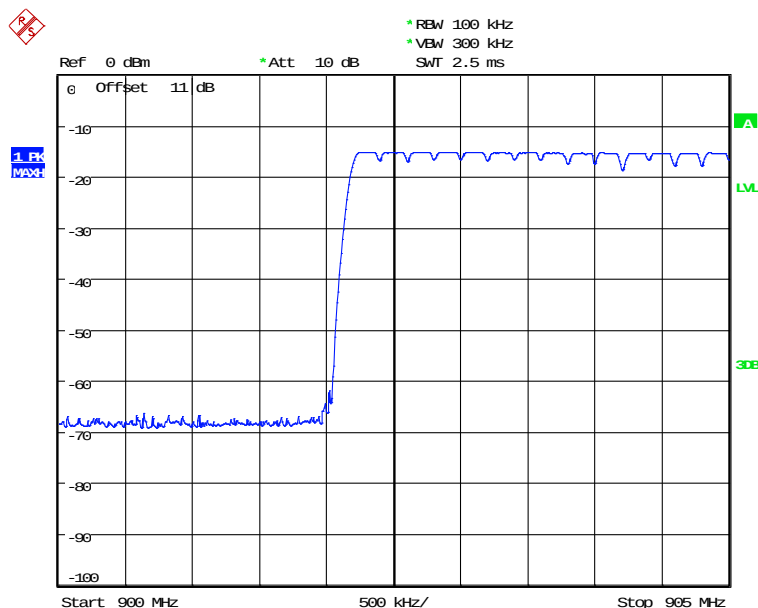
Test date: February 16, 2025-February 17, 2025

Temperature: 22.1 °C

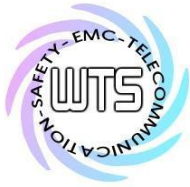
Humidity: 56.6 %

Tester: Sora

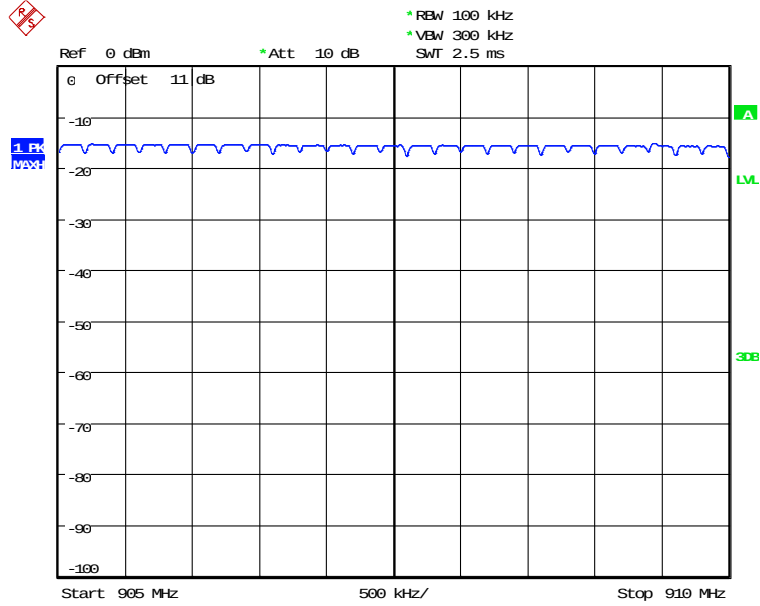
900M



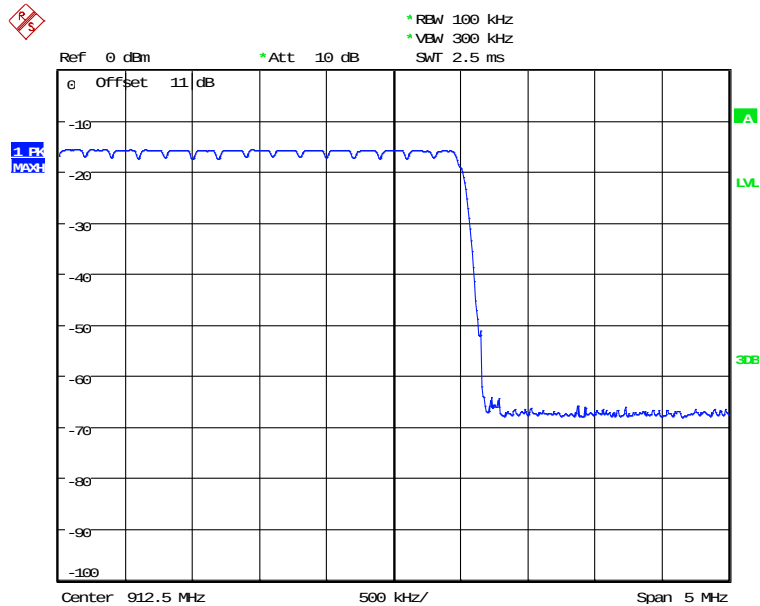
NUMBER OF HOPPING
Date: 16.FEB.2025 17:24:31



Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



NUMBER OF HOPPING
Date: 16.FEB.2025 17:44:51



NUMBER OF HOPPING
Date: 17.FEB.2025 08:39:39



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

Limits:

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

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: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

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.

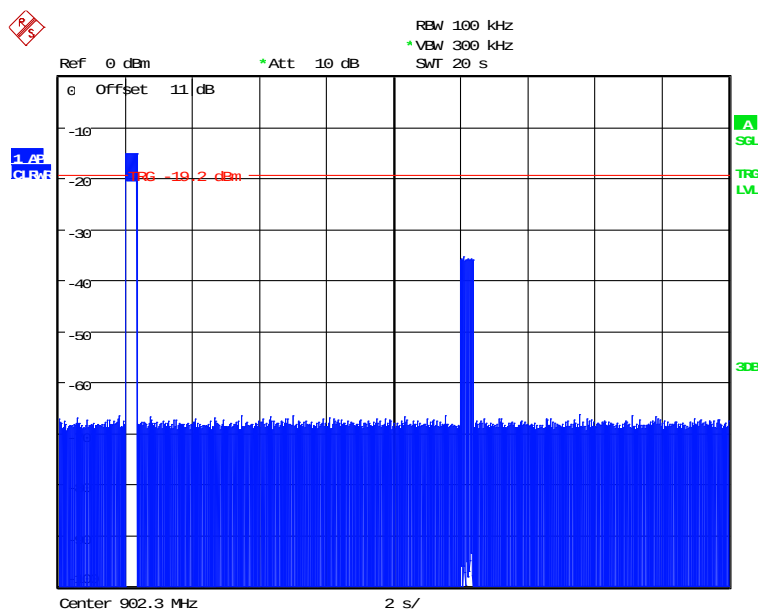
Test date: February 16, 2025

Temperature: 25.7 °C

Humidity: 56.0 %

Tester: Sora

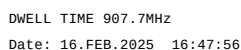
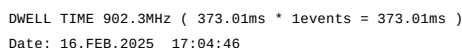
900M

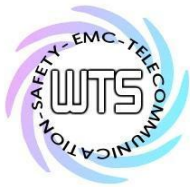


DWELL TIME 902.3MHz
Date: 16.FEB.2025 16:43:27

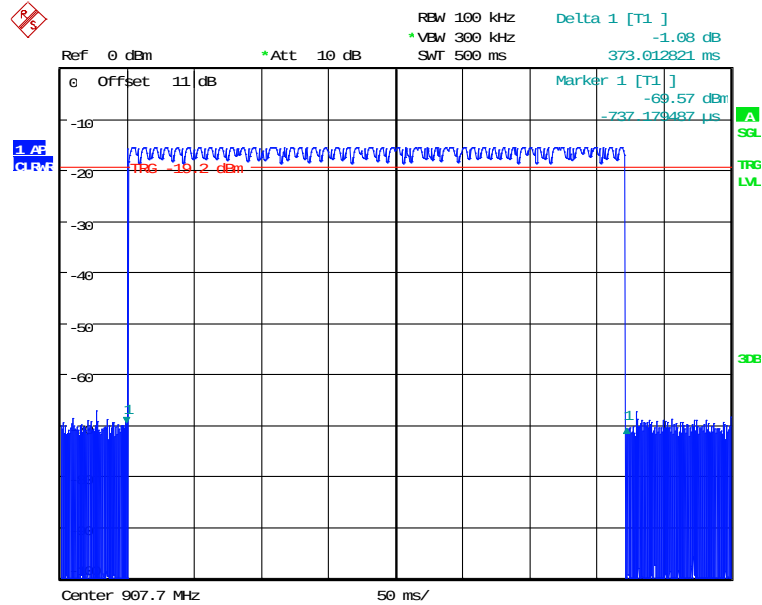


FCC ID: 2BODE-SP-LT-01

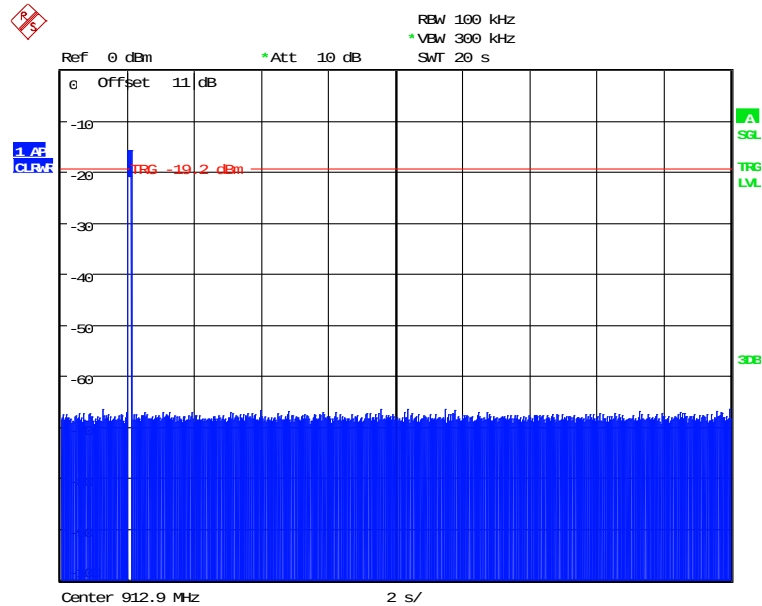




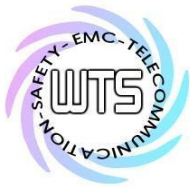
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



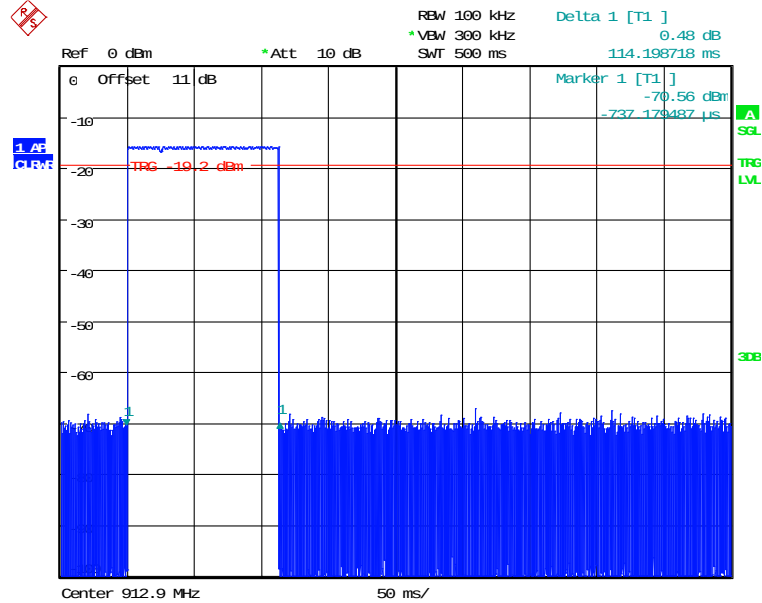
DWELL TIME 907.7MHz (373.01ms * 1events = 373.01ms)
Date: 16.FEB.2025 17:11:47



DWELL TIME 912.9MHz
Date: 16.FEB.2025 17:01:51



Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



DWELL TIME 912.9MHz (114.2ms * 1events = 114.2ms)
Date: 16.FEB.2025 17:16:04

Limits:

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



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

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.

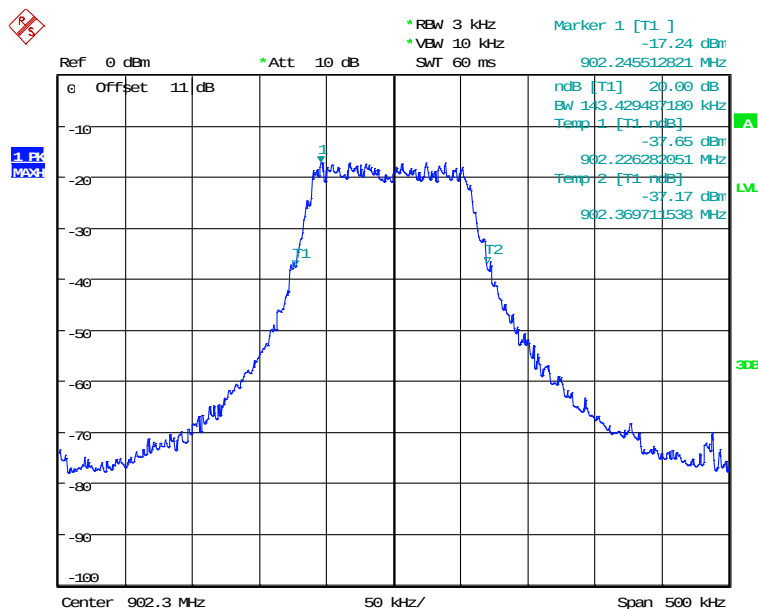
Test date: February 16, 2025

Temperature: 25.7 °C

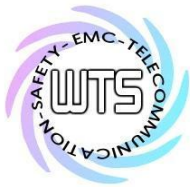
Humidity: 56.0 %

Tester: Sora

900M

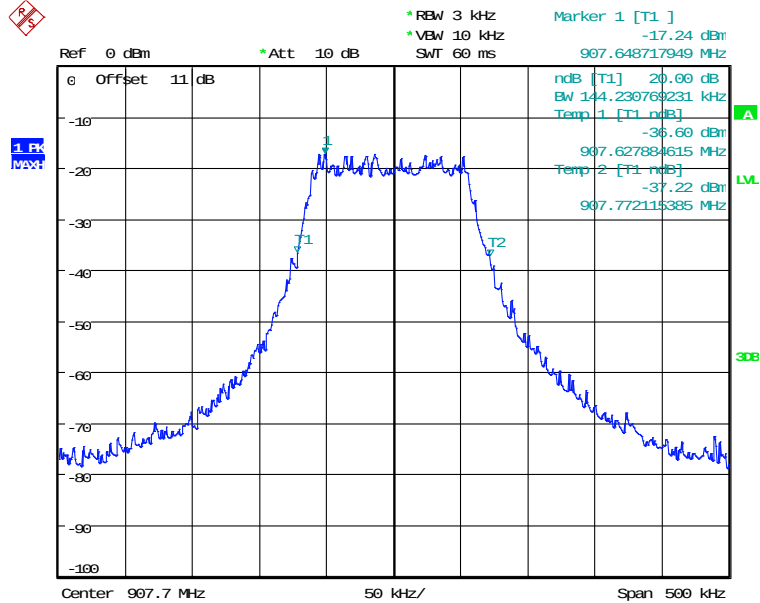


20DB BANDWIDTH 902.3MHz
Date: 16.FEB.2025 10:47:39

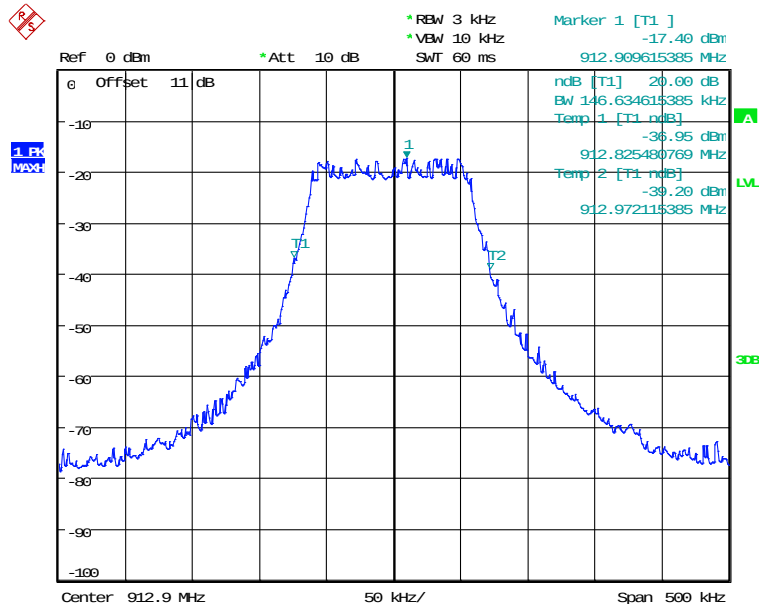


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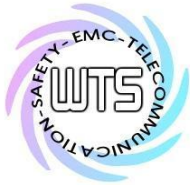
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



20DB BANDWIDTH 907.7MHz
Date: 16.FEB.2025 10:44:05



20DB BANDWIDTH 912.9MHz
Date: 16.FEB.2025 10:42:15



Registration number: W6M22501-24046-C-1

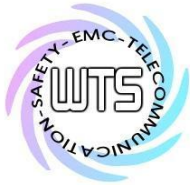
FCC ID: 2BODE-SP-LT-01

Limits:

Frequency Range (MHz)	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 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: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

3.8 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

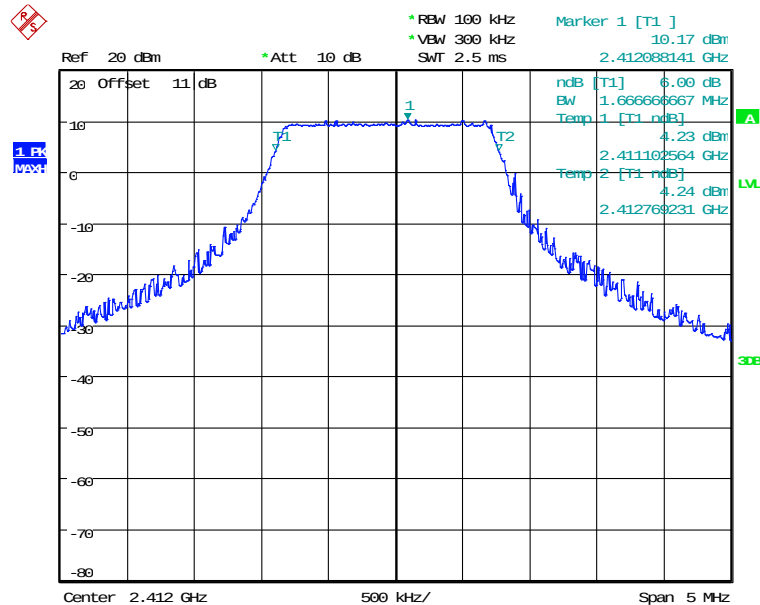
Test date: February 16, 2025

Temperature: 25.7 °C

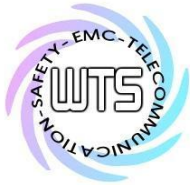
Humidity: 56.0 %

Tester: Sora

2.4GHz

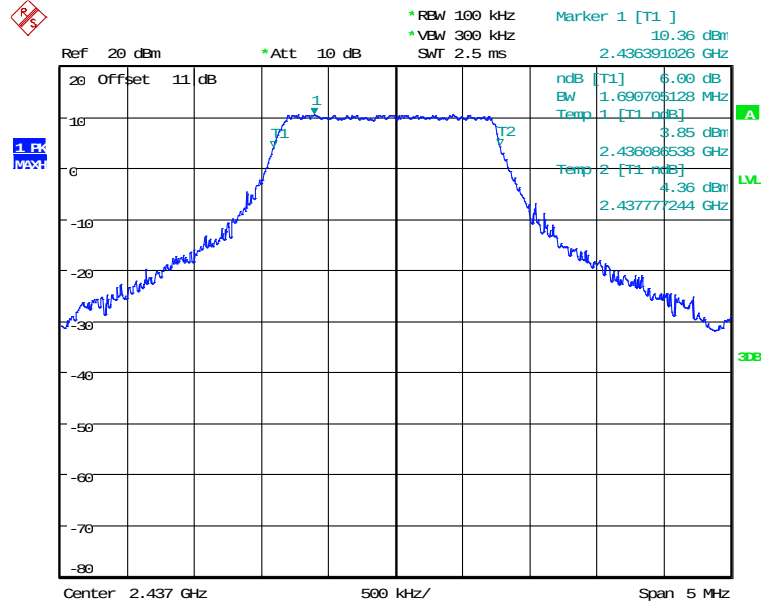


6DB BANDWIDTH 2412MHz
Date: 16.FEB.2025 10:00:44

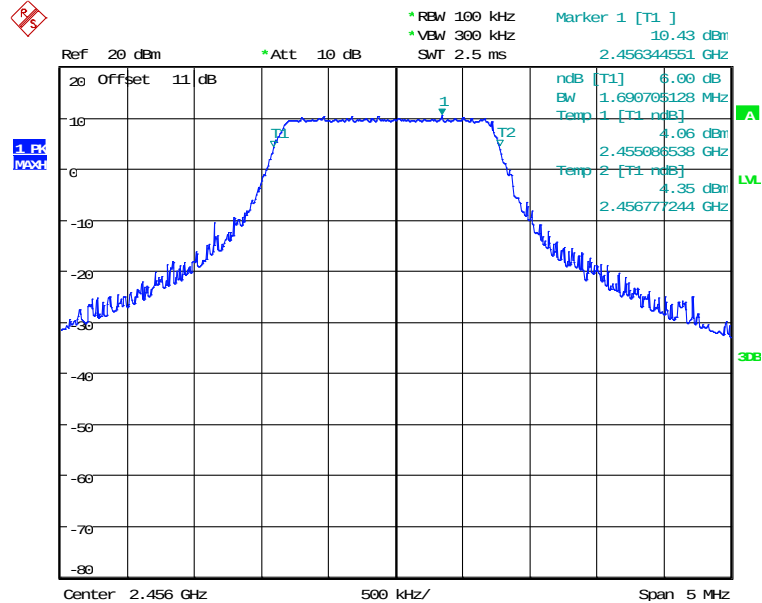


Worldwide Testing Services(Taiwan) Co., Ltd.

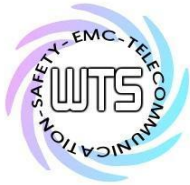
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



6DB BANDWIDTH 2437MHz
Date: 16.FEB.2025 09:54:07



6DB BANDWIDTH 2456MHz
Date: 16.FEB.2025 09:48:00

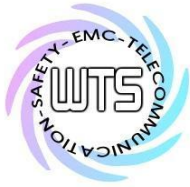


Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

Limits:

Frequency Range (MHz)	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

3.9 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) 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.

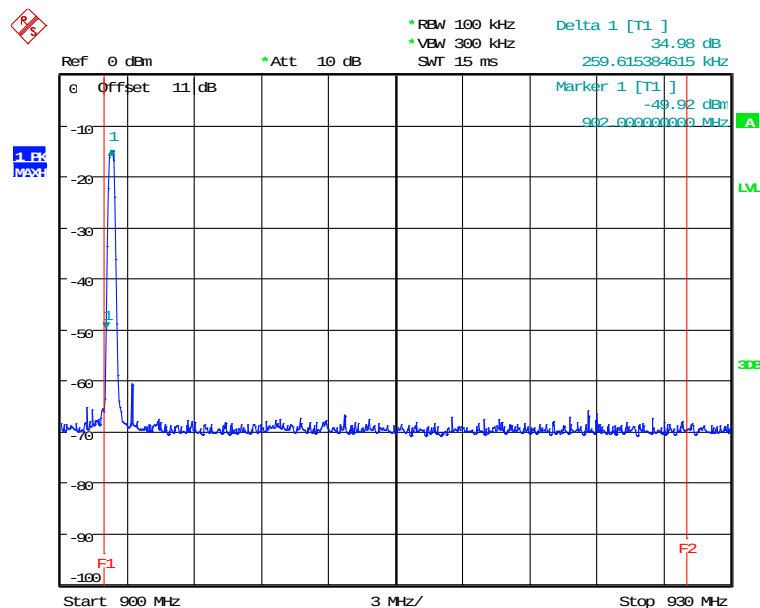
Test date: February 16, 2025

Temperature: 25.7 °C

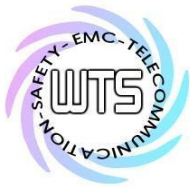
Humidity: 56.0 %

Tester: Sora

900M

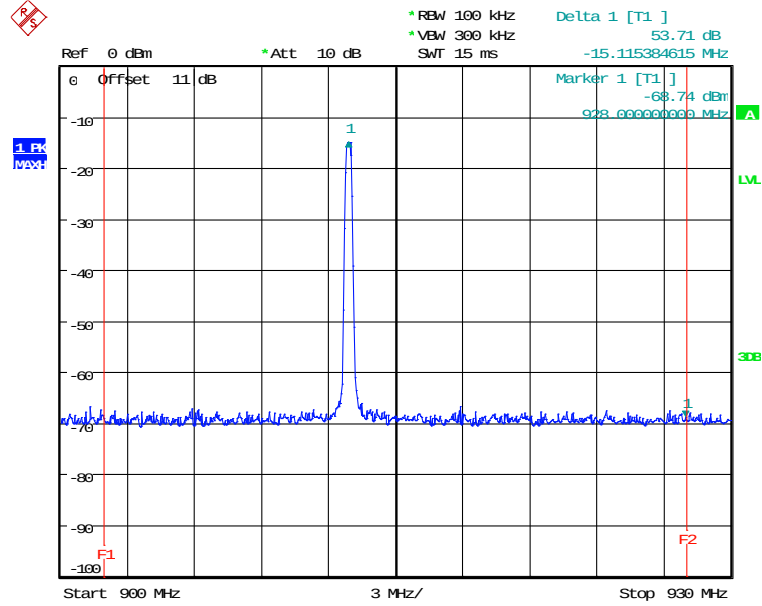


BANDEDGE 902.3MHz
Date: 16.FEB.2025 10:53:34

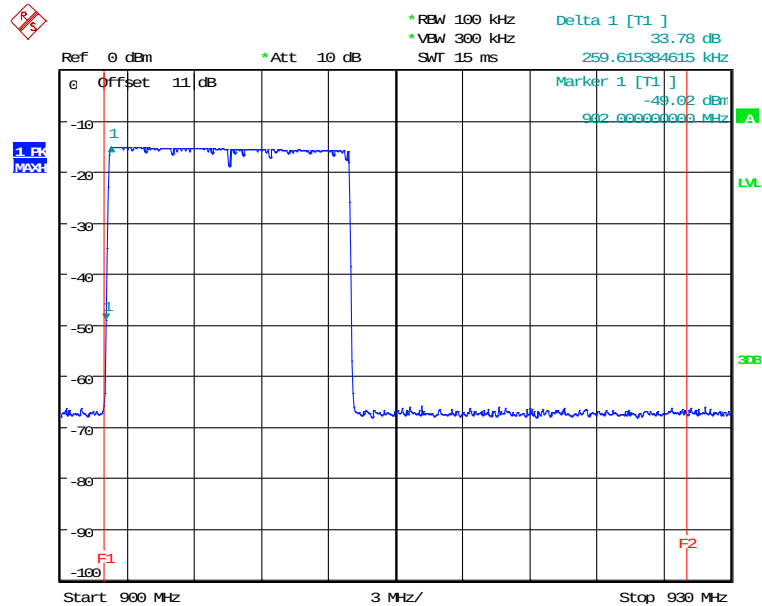


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22501-24046-C-1
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BANDEDGE 912.9MHz
Date: 16.FEB.2025 10:54:45

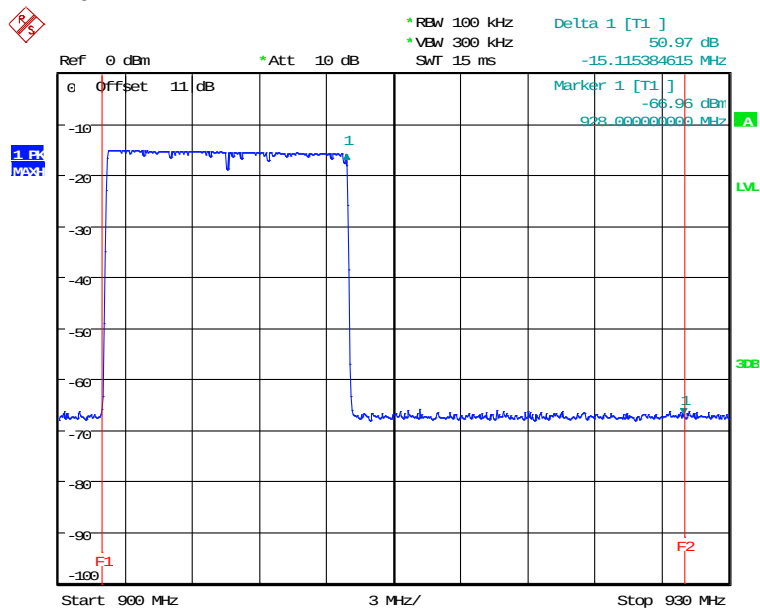


BANDEDGE 902.3MHz HOPPING MODE
Date: 16.FEB.2025 12:05:44



Registration number: W6M22501-24046-C-1

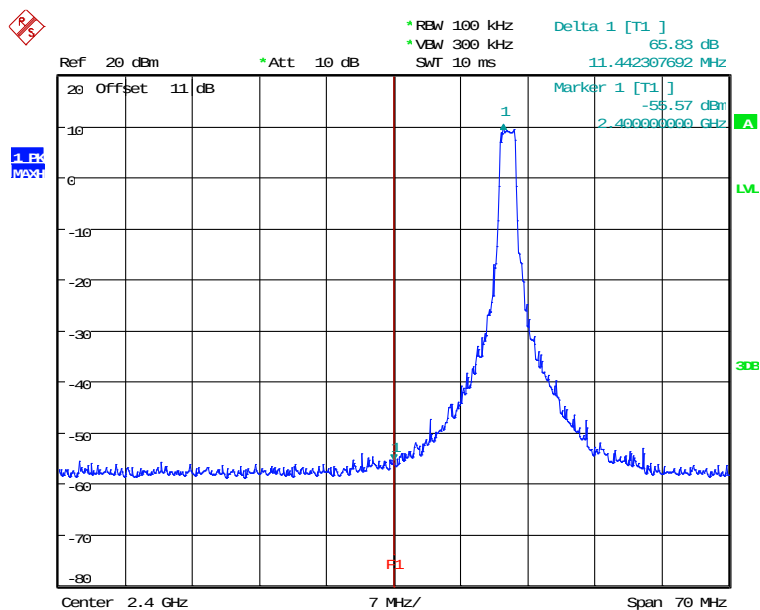
FCC ID: 2BODE-SP-LT-01



BANDEDGE 912.9MHz HOPPING MODE

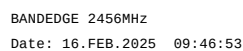
Date: 16.FEB.2025 12:04:59

2.4GHz



BANDEDGE 2412MHz

Date: 16.FEB.2025 10:01:24



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



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

3.10 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

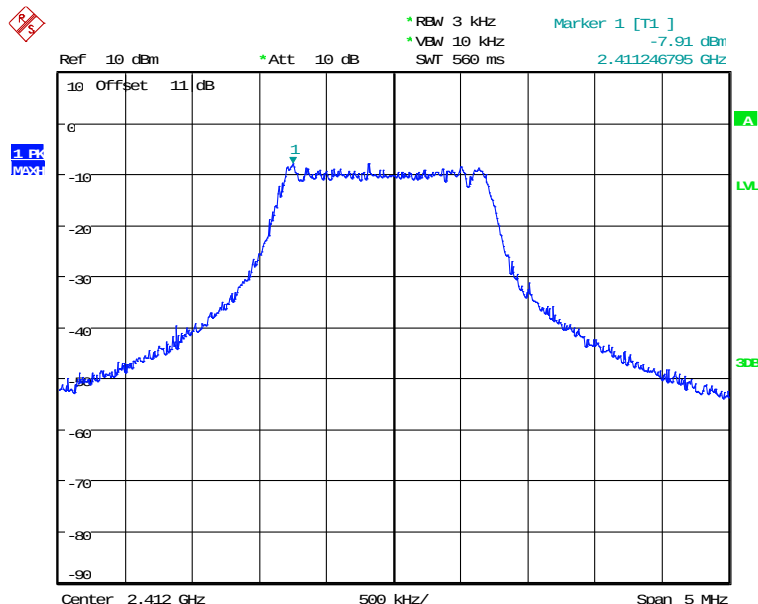
Test date: February 16, 2025

Temperature: 25.7 °C

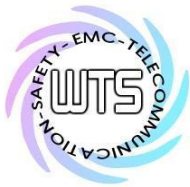
Humidity: 56.0 %

Tester: Sora

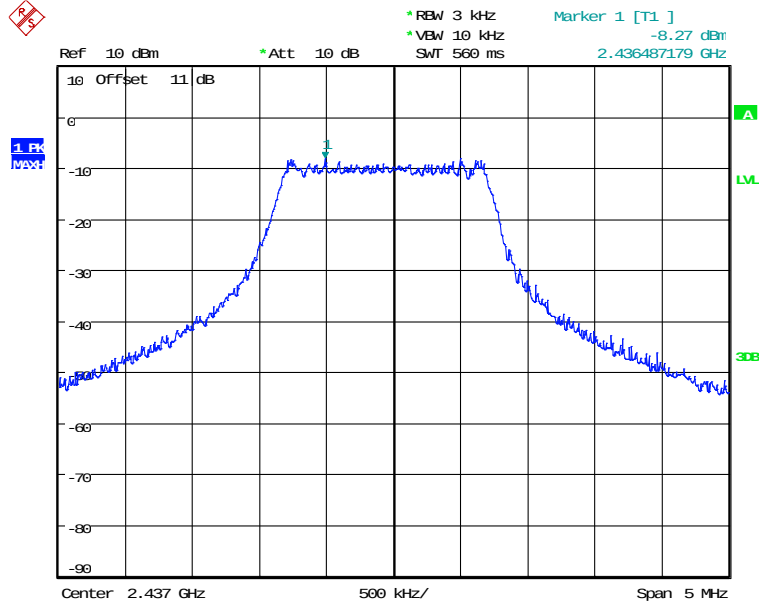
2.4GHz



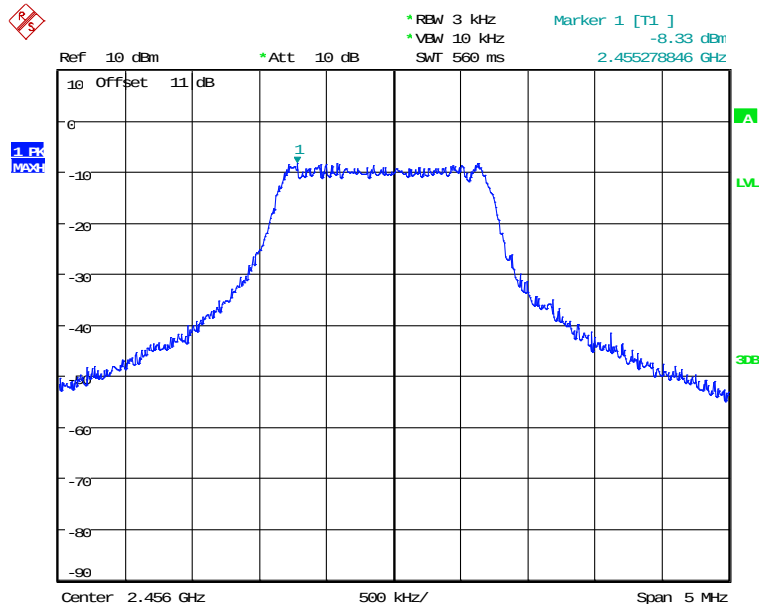
POWER DENSITY 2412MHz
Date: 16.FEB.2025 09:59:09



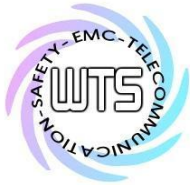
Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01



POWER DENSITY 2437MHz
Date: 16.FEB.2025 09:55:28



POWER DENSITY 2456MHz
Date: 16.FEB.2025 09:44:03



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

Limits:

Frequency Range (MHz)	Limit (dBm)
902-928	8
2400-2483.5	8
5725-5850	8



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

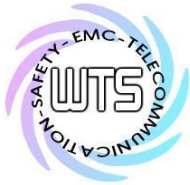
3.11 Radiated Emission from Receiver Part

FCC Rule: 15.109

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

Explanation: Please refer to separated test report no.: W6M22501-24046-P-15B.



Registration number: W6M22501-24046-C-1

FCC ID: 2BODE-SP-LT-01

3.12 Power Line Conducted Emission

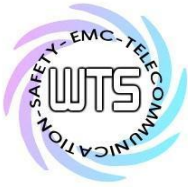
For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision 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: 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 powered by battery.**

Limits:

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



Registration number: W6M22501-24046-C-1
FCC ID: 2BODE-SP-LT-01

Appendix

Measurement diagrams

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Gino

File : 1_ANT+_TX 2412MHz

Data : #1

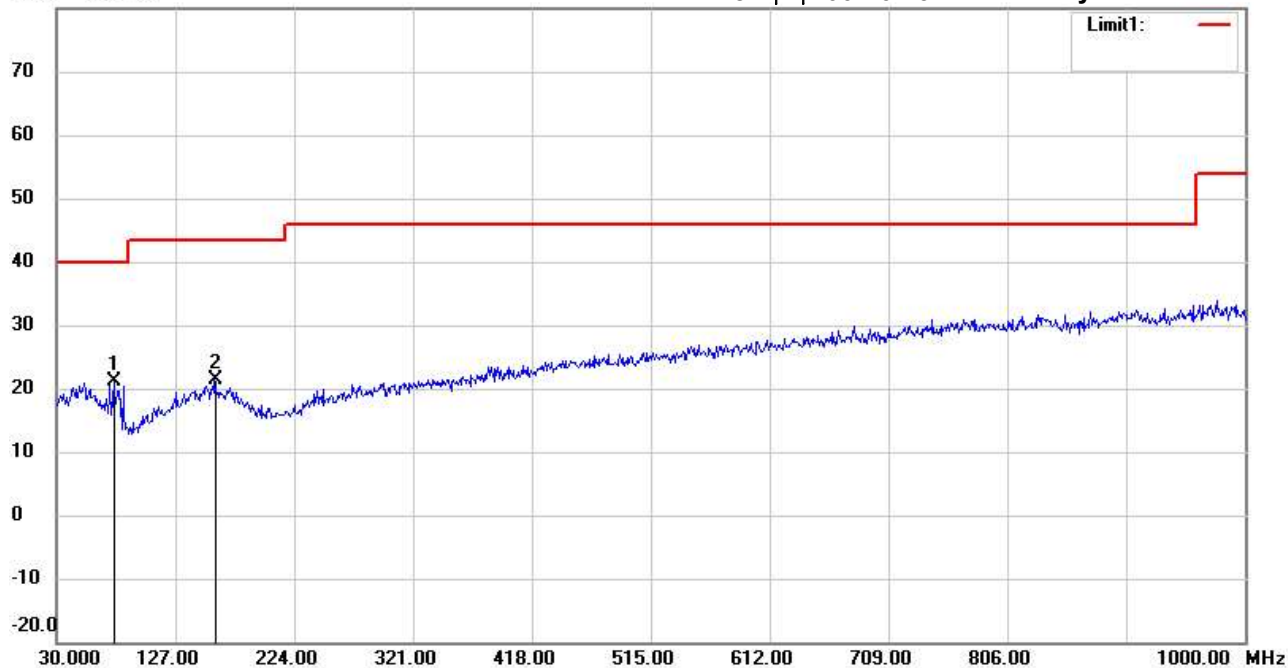
Date: 2025/1/17

Temperature: 20.5 °C

80.0 dBuV/m

Time: 下午 06:26:23

Humidity: 52.7 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
*	77.0450	37.95	peak	-16.85	21.10	40.00	100	287	-18.90	
	159.4950	33.48	peak	-12.17	21.31	43.50	100	353	-22.19	



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_ANT+_TX 2412MHz

Data : #2

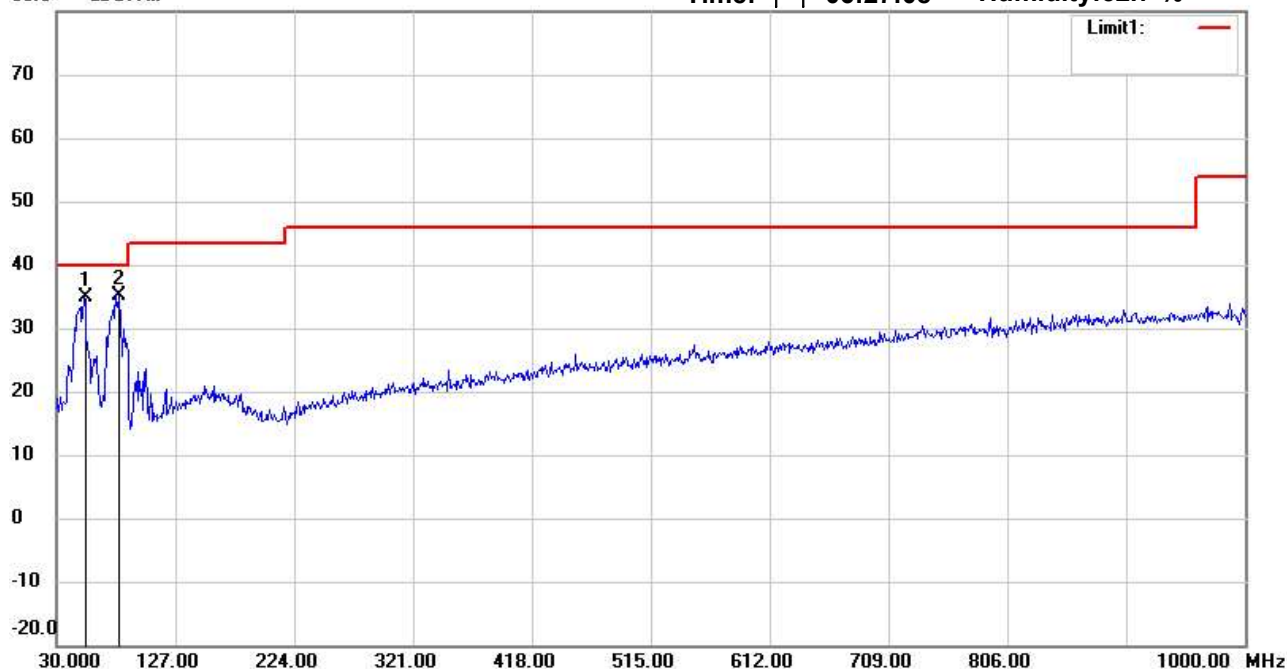
Date: 2025/1/17

Temperature: 20.5 °C

80.0 dBuV/m

Time: 下午 06:27:08

Humidity: 52.7 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: Vertical

EUT : W6M22501-24046

Power : 3.6 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2412 MHz

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
	52.7950	47.47	peak	-12.67	34.80	40.00	100	126	-5.20	
*	80.9250	52.90	peak	-17.67	35.23	40.00	100	271	-4.77	

*: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: Echo

File : 3

Data : #1

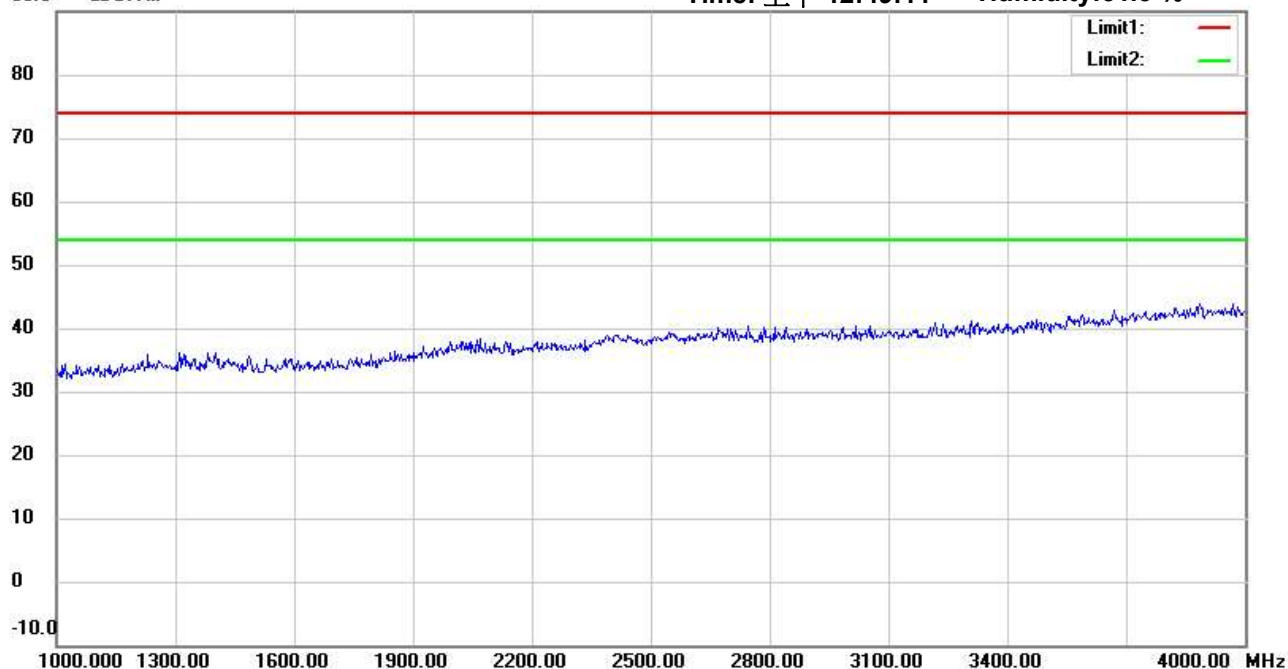
Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:49:11

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
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*: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: Echo

File :3

Data :#6

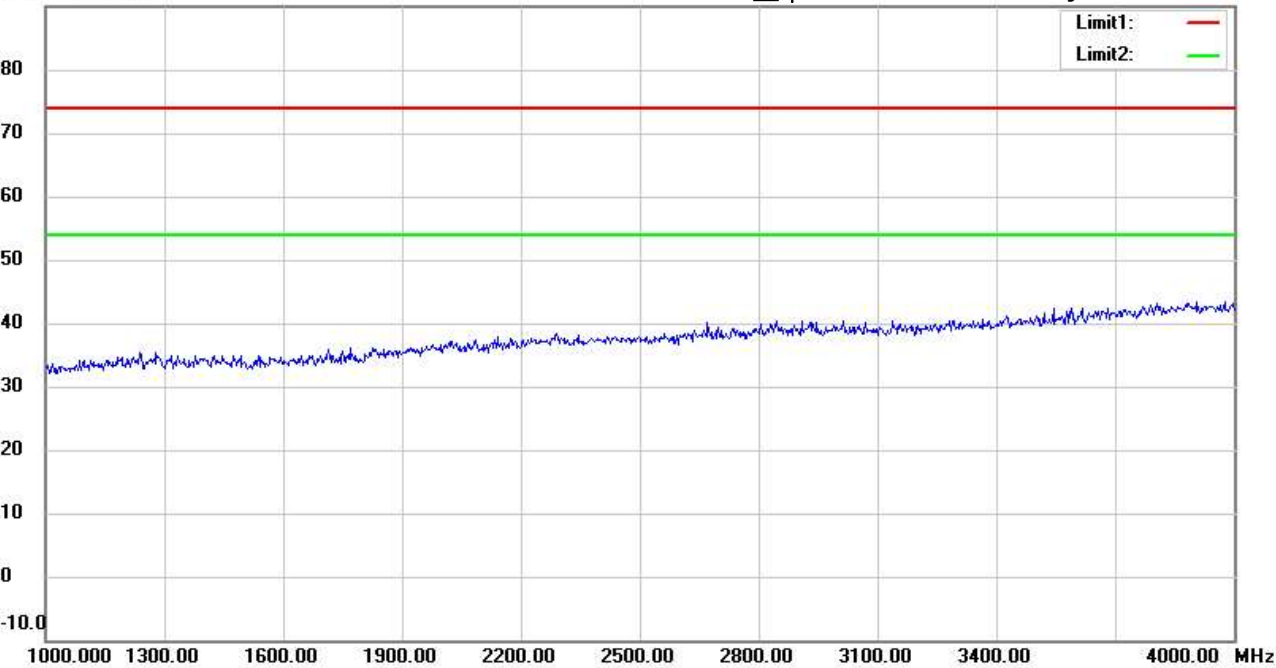
Date: 2025/1/10

Temperature:22.4 °C

90.0 dBuV/m

Time: 上午 12:52:00

Humidity:51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*: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: Echo

File : 3

Data : #2

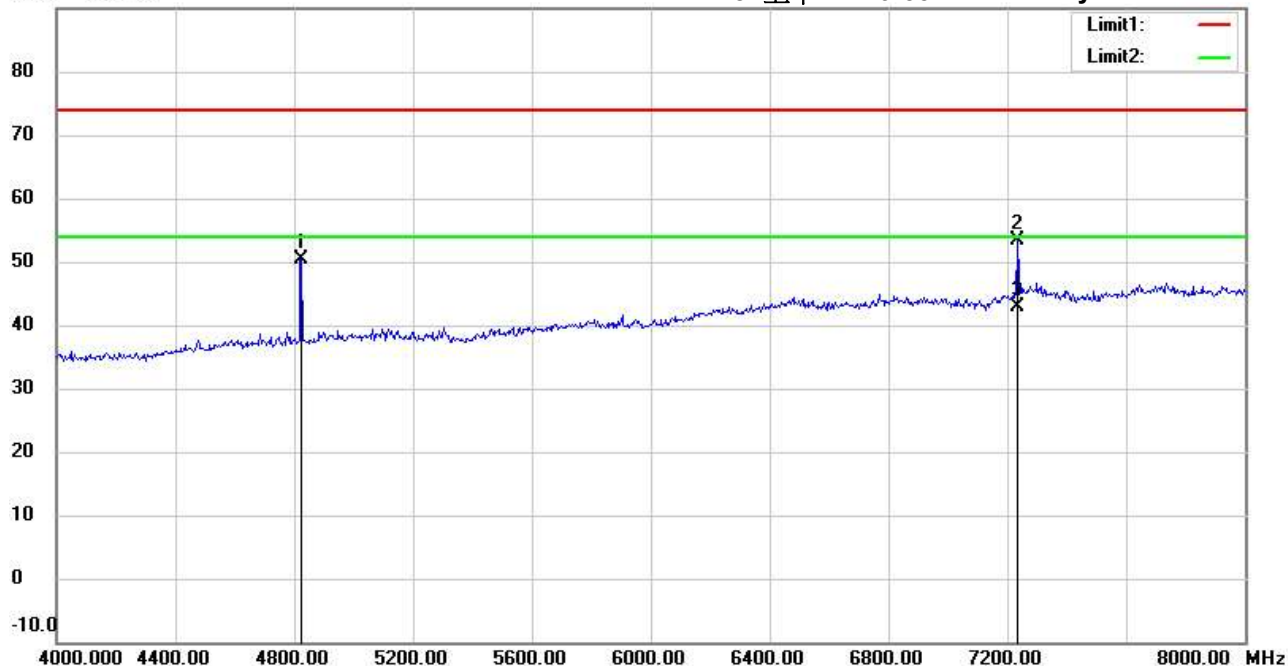
Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:49:55

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
	4822.000	45.81	peak	4.62	50.43	74.00	150	211	-23.57	
	7236.000	41.69	peak	11.73	53.42	74.00	150	355	-20.58	
*	7236.000	31.24	AVG	11.73	42.97	54.00	150	355	-11.03	

*: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: Echo

File : 3

Data : #7

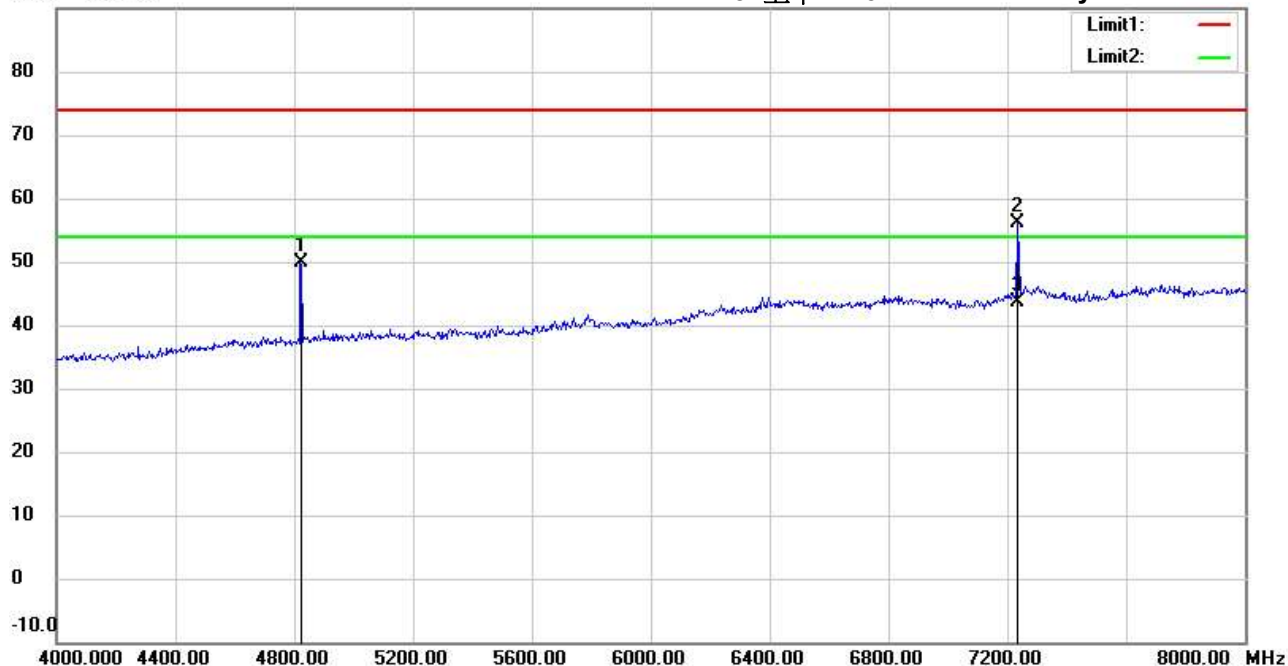
Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:52:44

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
	4822.000	45.16	peak	4.62	49.78	74.00	150	214	-24.22	
	7236.000	44.32	peak	11.73	56.05	74.00	150	307	-17.95	
*	7236.000	31.86	AVG	11.73	43.59	54.00	150	307	-10.41	

*: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: Echo

File : 3

Data : #3

Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:50:45

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
	9648.000	32.45	peak	13.08	45.53	74.00	150	101	-28.47	
*	12060.000	33.82	peak	16.81	50.63	74.00	150	352	-23.37	

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



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

Operator: Echo

File : 3

Data : #8

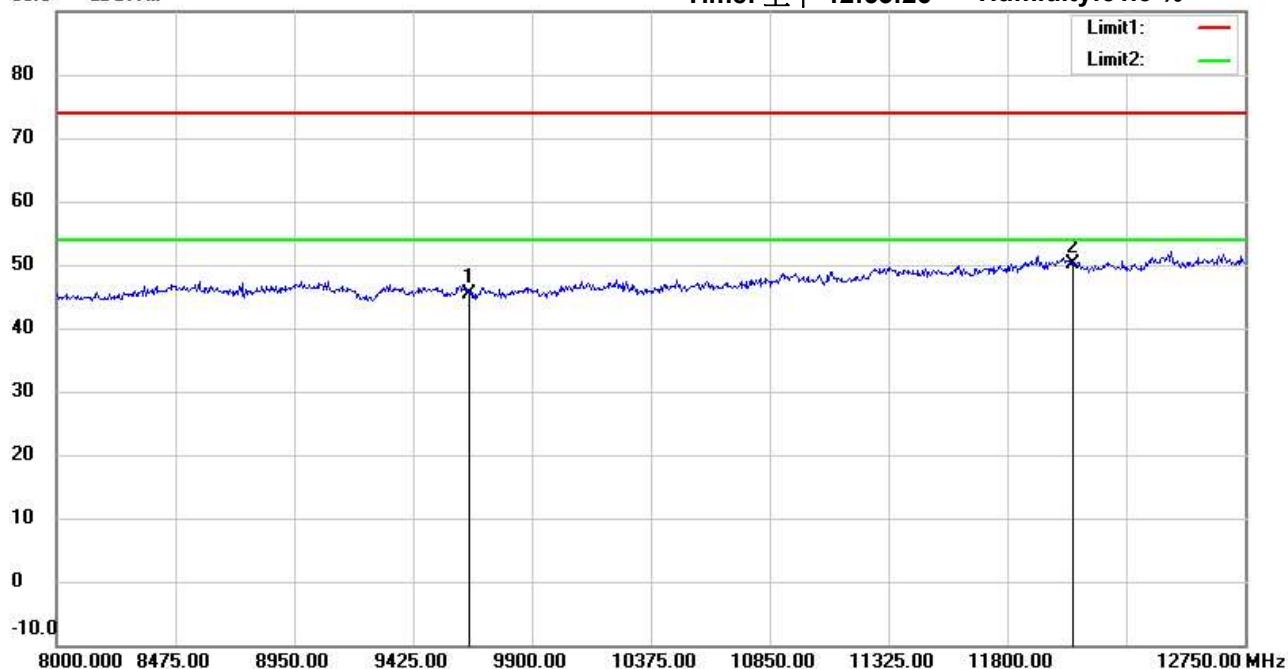
Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:53:26

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
	9648.000	32.34	peak	13.08	45.42	74.00	150	33	-28.58	
*	12060.000	33.42	peak	16.81	50.23	74.00	150	291	-23.77	

*: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: Echo

File :3

Data :#4

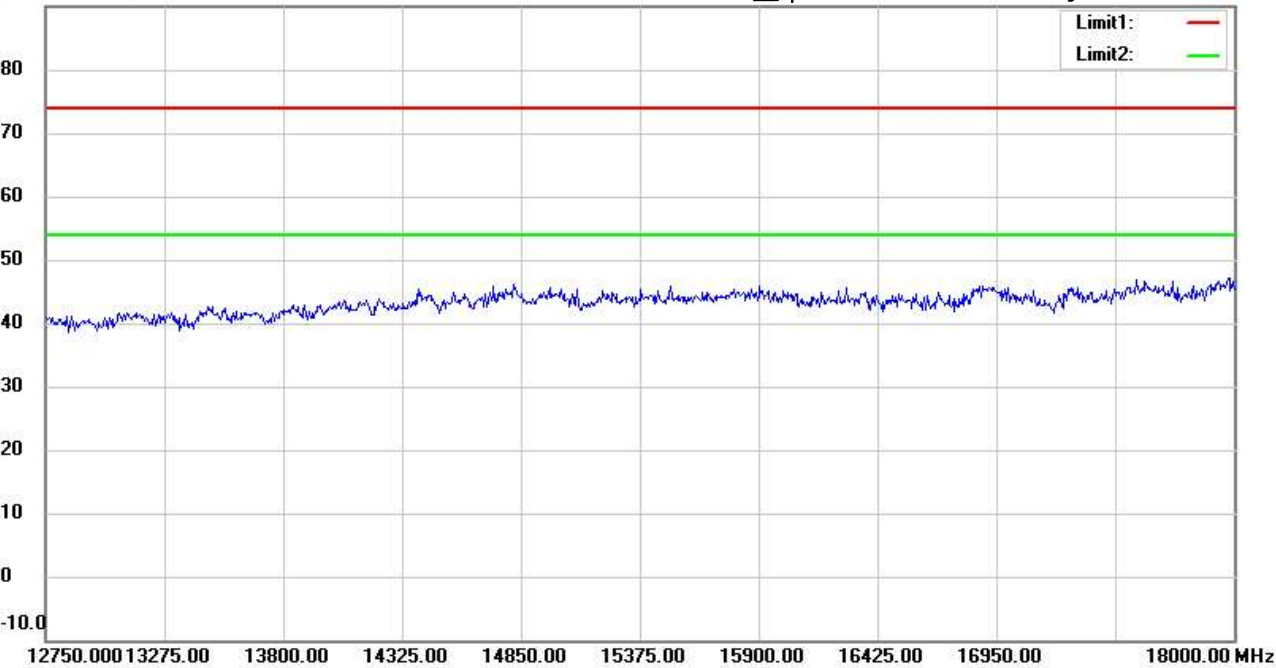
Date: 2025/1/10

Temperature:22.4 °C

90.0 dBuV/m

Time: 上午 12:51:03

Humidity:51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: *Horizontal*

Power : 3.6 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
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*: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: Echo

File :3

Data :#9

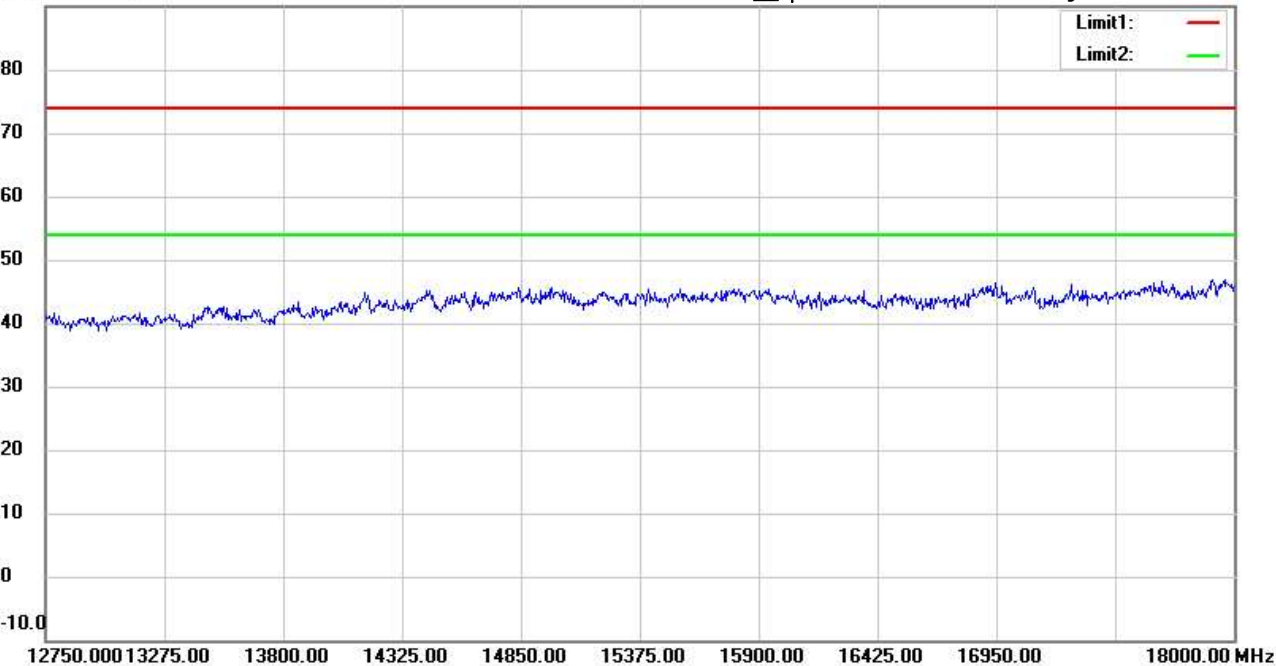
Date: 2025/1/10

Temperature:22.4 °C

90.0 dBuV/m

Time: 上午 12:53:44

Humidity:51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
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*: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: Echo

File : 3

Data : #5

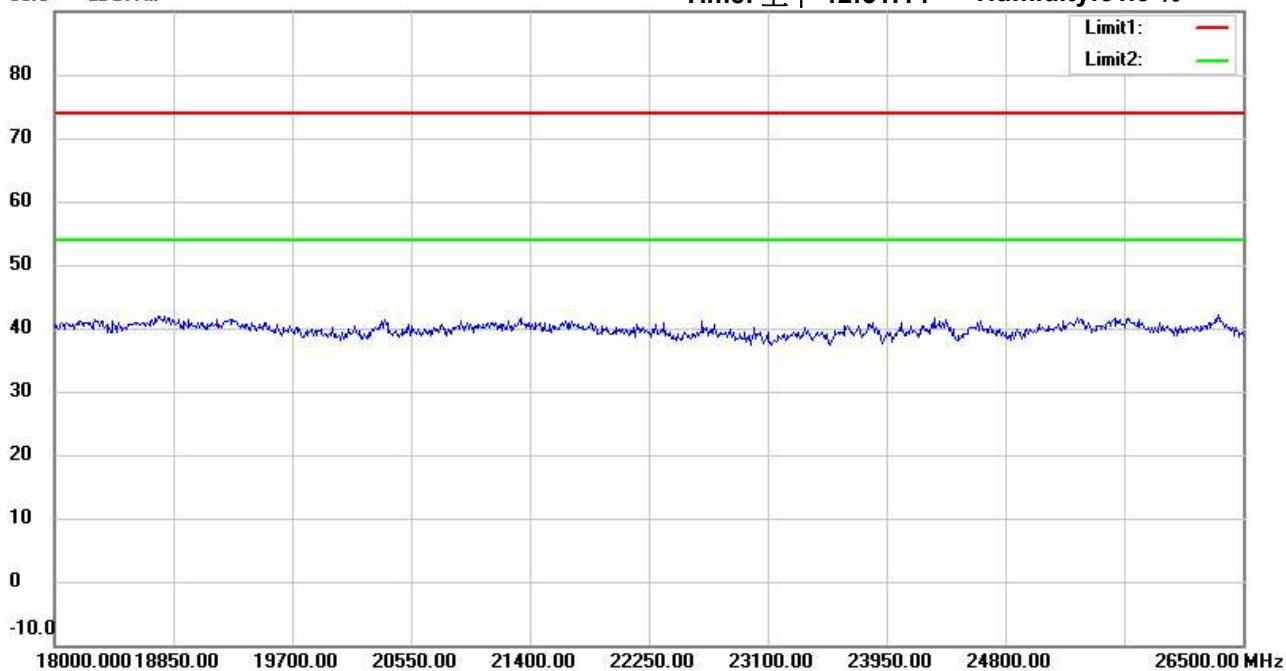
Date: 2025/1/10

Temperature: 22.4 °C

90.0 dBuV/m

Time: 上午 12:51:14

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
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*: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: Echo

File :3

Data :#10

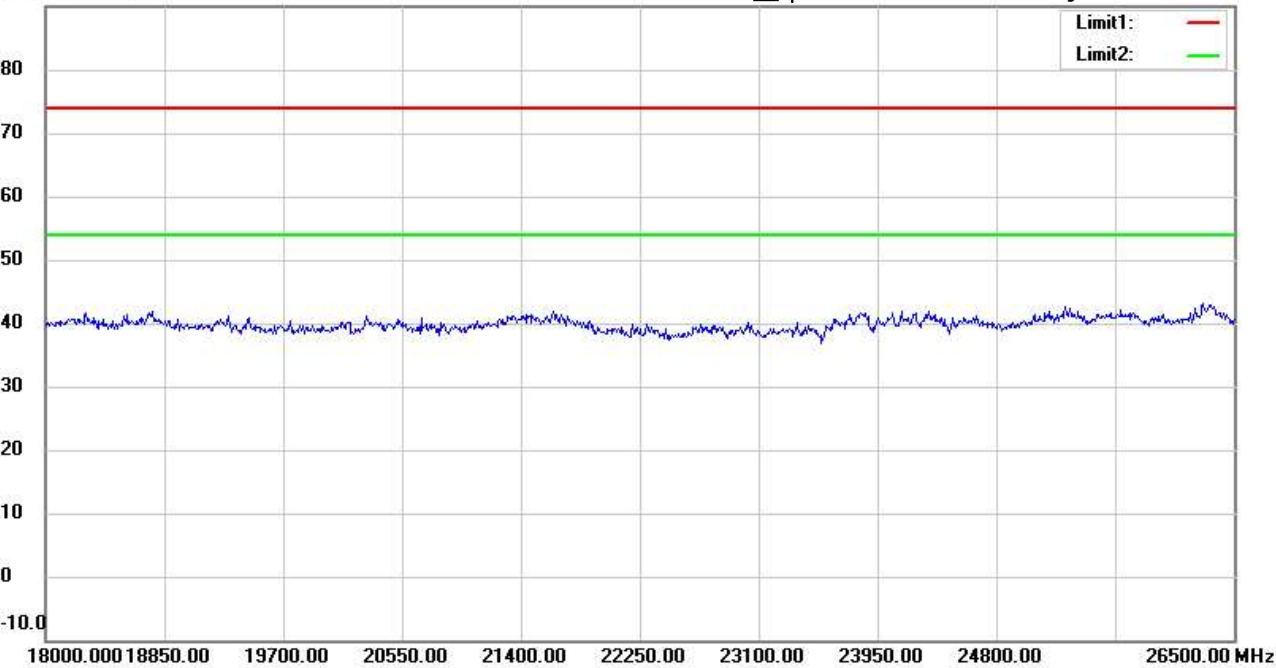
Date: 2025/1/10

Temperature:22.4 °C

90.0 dBuV/m

Time: 上午 12:53:55

Humidity:51.3 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
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*: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: Echo

File : Bandedge

Data : #1

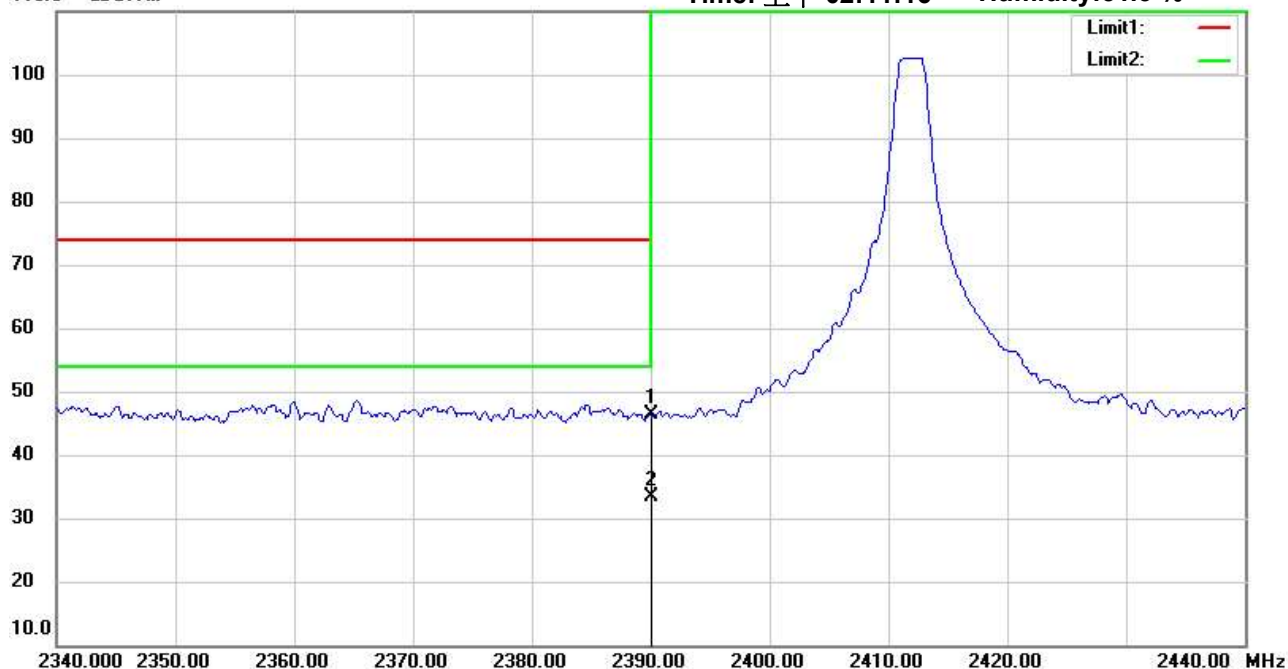
Date: 2025/1/10

Temperature: 22.4 °C

110.0 dBuV/m

Time: 上午 02:11:16

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC 15.247 PK (Bandedge)

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
	2390.000	50.71	peak	-4.45	46.26	74.00	150	171	-27.74	
*	2390.000	37.93	AVG	-4.45	33.48	54.00	150	171	-20.52	

*: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: Echo

File : Bandedge

Data : #2

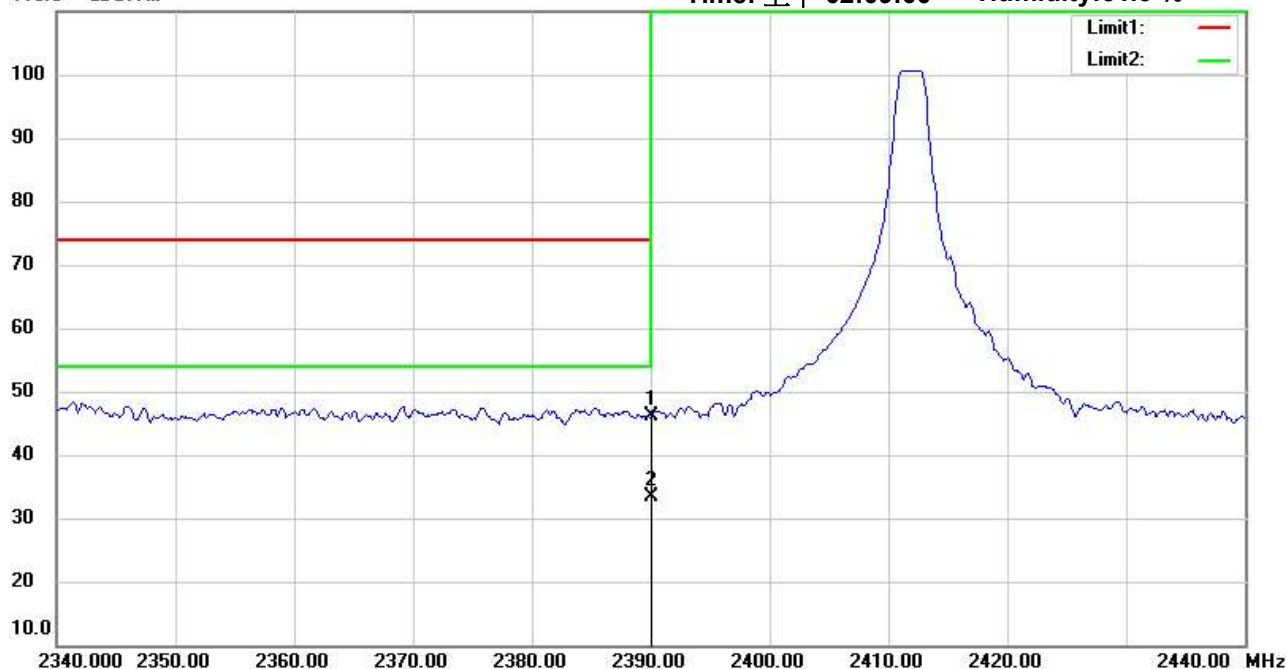
Date: 2025/1/10

Temperature: 22.4 °C

110.0 dBuV/m

Time: 上午 02:09:00

Humidity: 51.3 %



Site : 966A Chamber

Condition : FCC 15.247 PK (Bandedge)

EUT : W6M22501-24046

M/N:

Test Mode : TX 2412 MHz

Note :

Polarization: Vertical

Power : 3.6 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
	2390.000	50.47	peak	-4.45	46.02	74.00	150	250	-27.98	
*	2390.000	37.92	AVG	-4.45	33.47	54.00	150	250	-20.53	

*: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

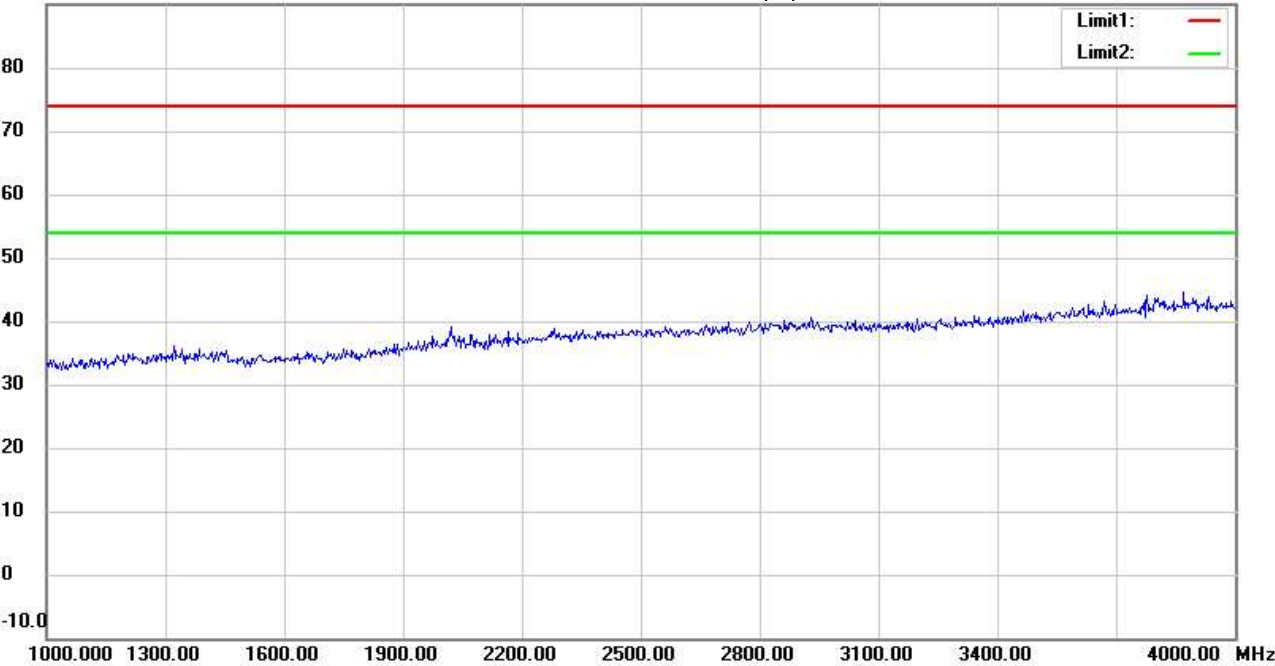
Operator: Gino
Temperature:21.9 °C
Humidity:52.5 %

File :3

Data :#1

Date: 2025/1/9
Time: 下午 11:55:05

90.0 dBuV/m



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22501-24046
M/N:
Test Mode : TX 2437MHz
Note :

Polarization: *Horizontal*
Power : 3.6 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
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*:Maximum data x:Over limit !:over margin



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

Operator: Gino

File : 3

Data : #6

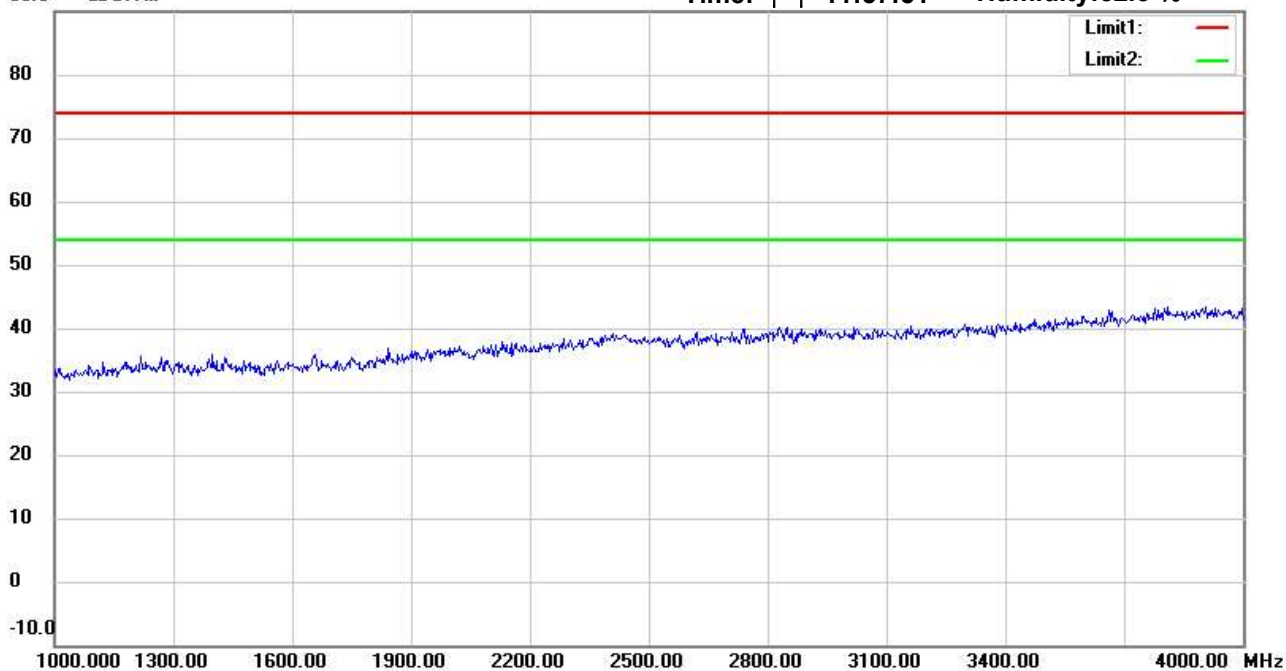
Date: 2025/1/9

Temperature: 21.9 °C

90.0 dBuV/m

Time: 下午 11:57:51

Humidity: 52.5 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2437MHz

Note :

Polarization: Vertical

Power : 3.6 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
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*:Maximum data x:Over limit !:over margin



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

Operator: Gino

File : 3

Data : #2

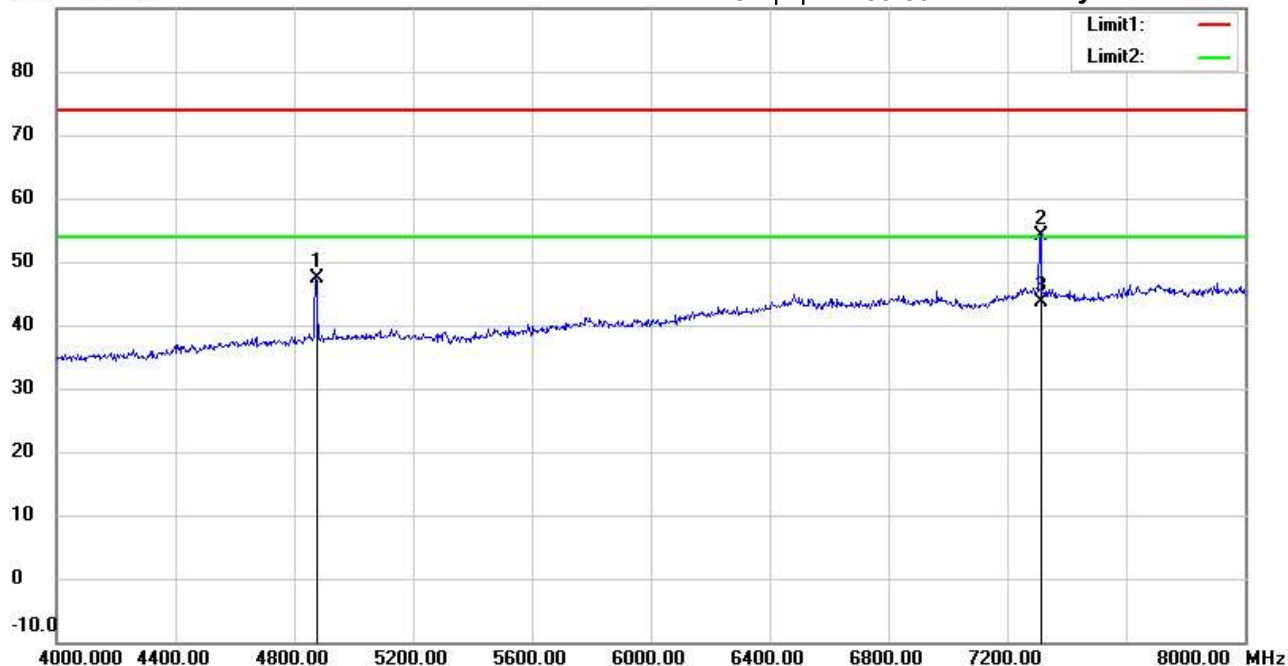
Date: 2025/1/9

Temperature: 21.9 °C

90.0 dBuV/m

Time: 下午 11:55:50

Humidity: 52.5 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2437MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
	4874.000	42.53	peak	4.89	47.42	74.00	150	34	-26.58	
	7312.000	41.92	peak	12.20	54.12	74.00	150	330	-19.88	
*	7312.000	31.43	AVG	12.20	43.63	54.00	150	330	-10.37	

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



Radiated Emission Measurement

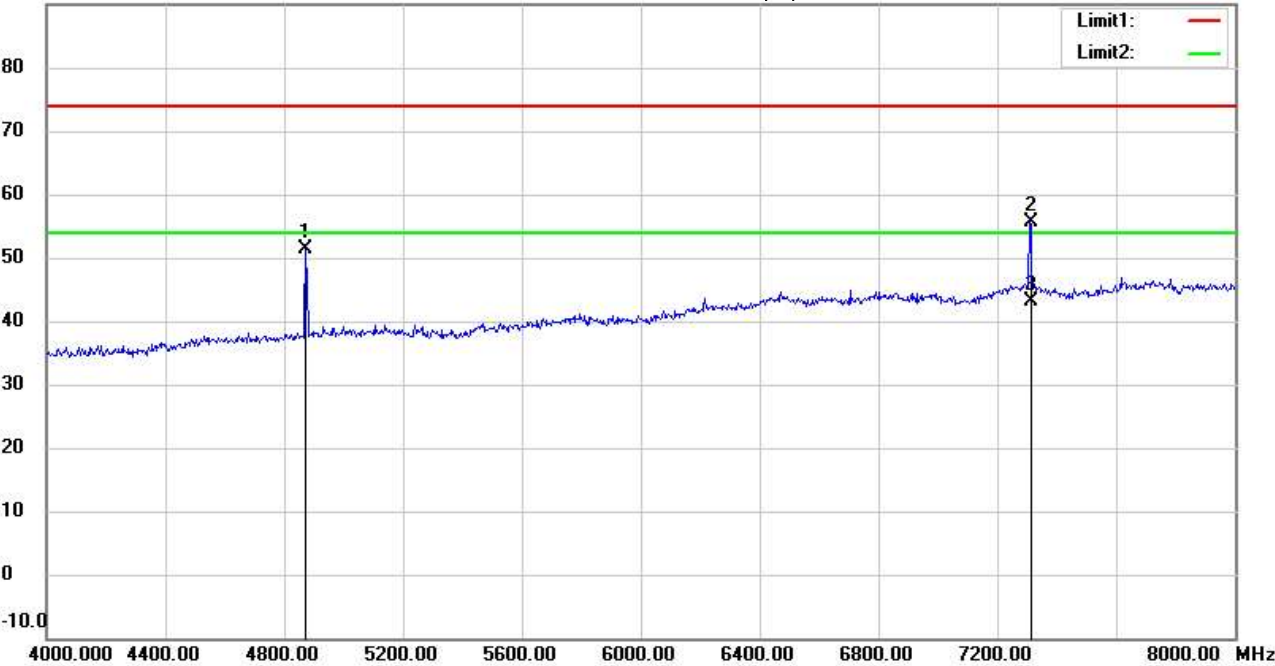
Operator: Gino
Temperature:21.9 °C
Humidity:52.5 %

File :3

Data :#7

Date: 2025/1/9
Time: 下午 11:58:35

90.0 dBuV/m



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22501-24046
M/N:
Test Mode : TX 2437MHz
Note :

Polarization: **Vertical**
Power : 3.6 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
	4872.000	46.61	peak	4.88	51.49	74.00	150	318	-22.51	
	7310.000	43.32	peak	12.20	55.52	74.00	150	210	-18.48	
*	7310.000	31.02	AVG	12.20	43.22	54.00	150	210	-10.78	



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

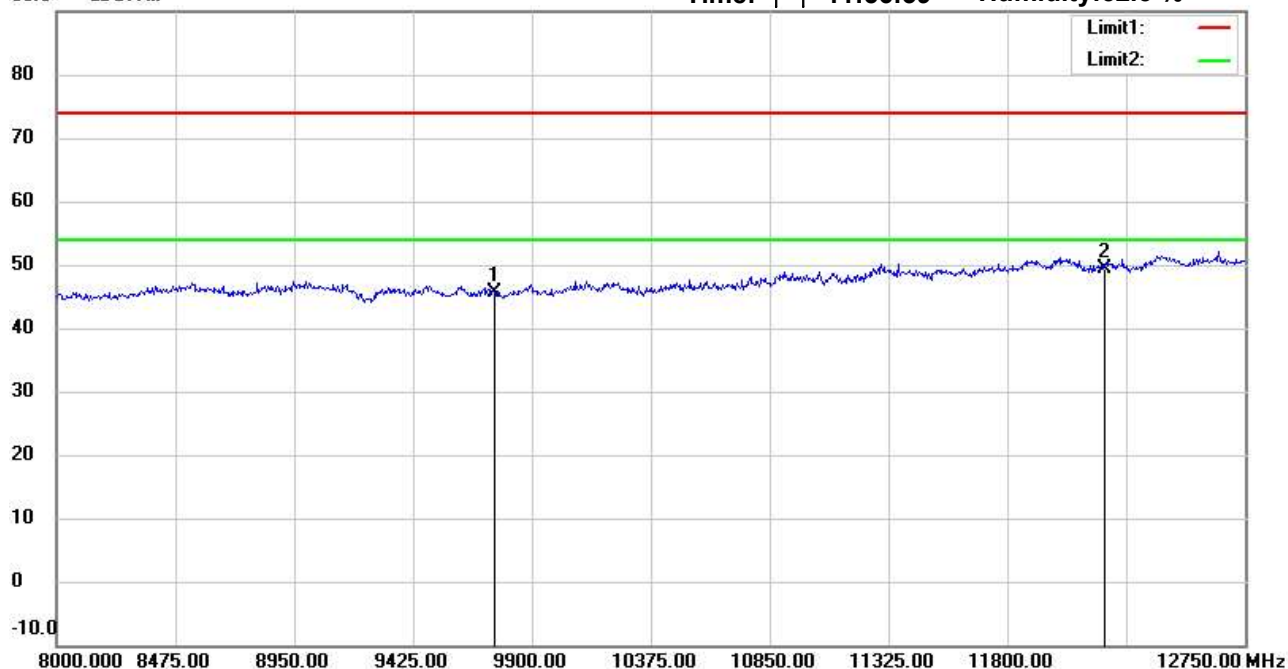
Date: 2025/1/9

Temperature: 21.9 °C

90.0 dBuV/m

Time: 下午 11:56:39

Humidity: 52.5 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2437MHz

Note :

Polarization: **Horizontal**

Power : 3.6 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
	9748.000	32.23	peak	13.31	45.54	74.00	150	116	-28.46	
*	12185.000	32.36	peak	17.10	49.46	74.00	150	269	-24.54	

*: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: Gino

File : 3

Data : #8

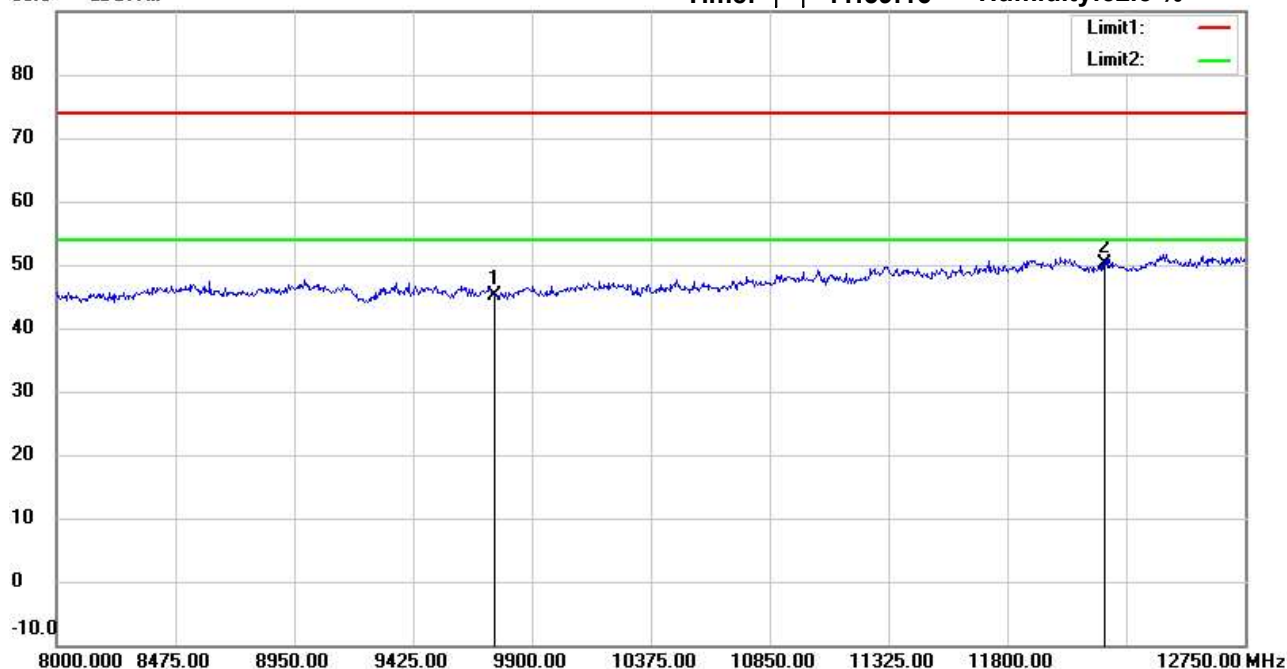
Date: 2025/1/9

Temperature: 21.9 °C

90.0 dBuV/m

Time: 下午 11:59:16

Humidity: 52.5 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22501-24046

M/N:

Test Mode : TX 2437MHz

Note :

Polarization: Vertical

Power : 3.6 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
	9748.000	31.71	peak	13.31	45.02	74.00	150	65	-28.98	
*	12185.000	33.00	peak	17.10	50.10	74.00	150	2	-23.90	

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