

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

**for**

**TPMS Trigger**

**Model No.: TT03**

**FCC ID: HQXTT03**

**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, TW1141, TW1146,  
TW1477, TW0200, TW0037**

**Industry Canada filed test laboratory Reg. No.: 20037, 5107A, 31634**



**Report No.: W6M22404-23411-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

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

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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 24, 2024	Rick Chen	<i>Rick Chen.</i>
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Date	WTS-Lab.	Name	Signature
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### **Technical responsibility for area of testing:**

May 24, 2024	Kevin Wang	<i>Kevin Wang</i>
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Date	WTS	Name	Signature
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# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

## **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.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)

Xizhi Lab

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, TW1141, TW1146, TW1477,  
TW0200, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 5107A, 31634

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

Name: ./.

Accredited no.: ./.

Street: ./.

Town: ./.

Country: ./.

## **1.3 Application details**

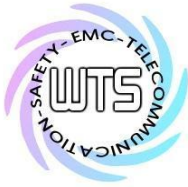
### **Approval holder**

Name: Sysgration Ltd.

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

City: Taipei City 114

Country: Taiwan



Registration number: W6M22404-23411-C-1

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**Manufacturer: (if applicable)**

Name: Sysgration Electronics Technology  
(HuiZhou) Company,Limited.  
Street: YuXin Science Park 3rd Floor, Long Shan 7 Rd.,  
XiangShuiHe Industrial Zone, DaYaWan,  
Town: HuiZhou City, GuangDong Province,  
Country: China

**Test date**

Date of receipt of test item: May 02, 2024  
Date of test: from May 03, 2024 to May 24, 2024

**1.4 General information of Test item**

Type of test item: TPMS Trigger  
Model no.: TT03  
Multi-listing model no.: ./.  
Brand name: SYSGRATION  
Power supply: USB 5Vd.c.  
Battery 7.2Vd.c., 3180mAh, 22.89Wh

**Technical data**

Mode	Channel	Conducted Power (dBm)
BLE 1M	Ch 0 : 2402 MHz	-2.29
	Ch 19 : 2440 MHz	-3.48
	Ch 39 : 2480 MHz	-4.89
BLE 2M	Ch 0 : 2402 MHz	-2.24
	Ch 19 : 2440 MHz	-3.47
	Ch 39 : 2480 MHz	-4.84

Type of antenna: Chip antenna  
Antenna gain: 5.19 dBi  
Operation modes: Duplex  
Modulation type: GFSK  
Sample no.: #10



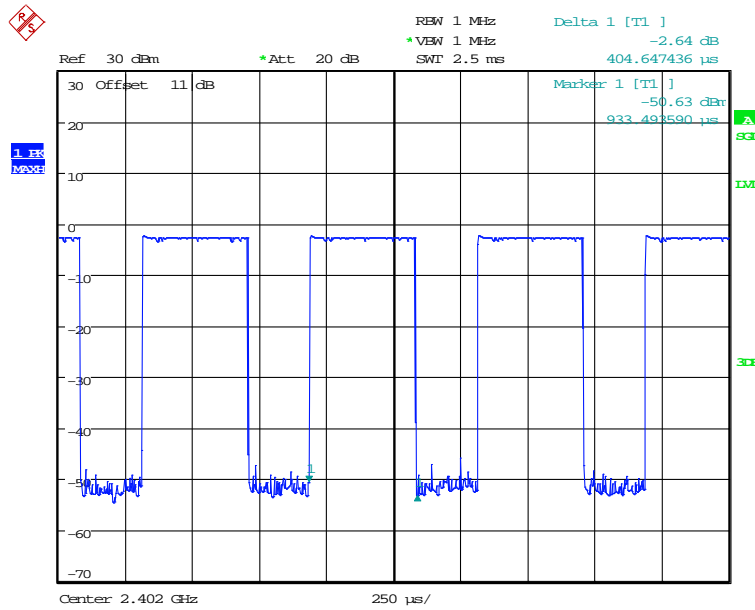
Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

## 1.5 Duty cycle and factor

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

Mode	T <sub>on</sub> (ms)	T <sub>on</sub> +T <sub>off</sub> (ms)	Duty cycle (%)	1/T – VBW (kHz)
BLE 1M	0.405	0.625	64.80%	2.47
BLE 2M	0.216	0.625	34.56%	4.63

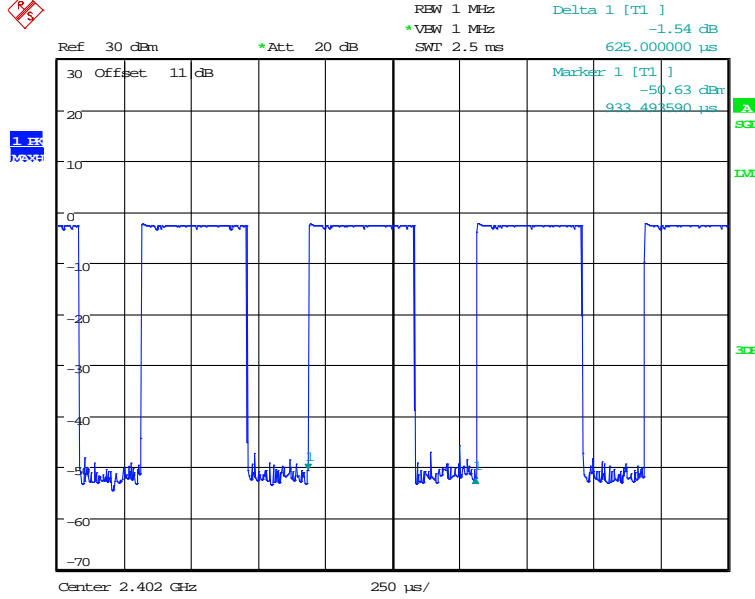
Duty cycle plot  
 BLE  
 1M



DUTY BLE 1M  
 Date: 8.MAY.2024 16:30:28

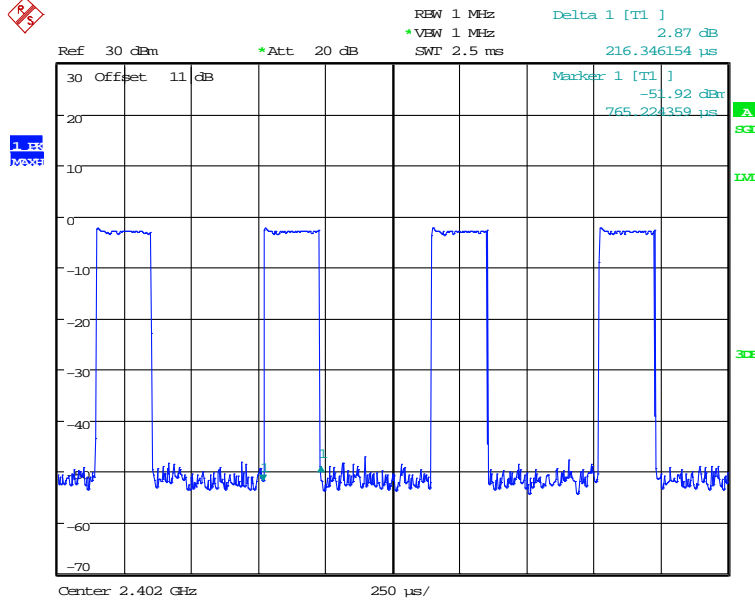


Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



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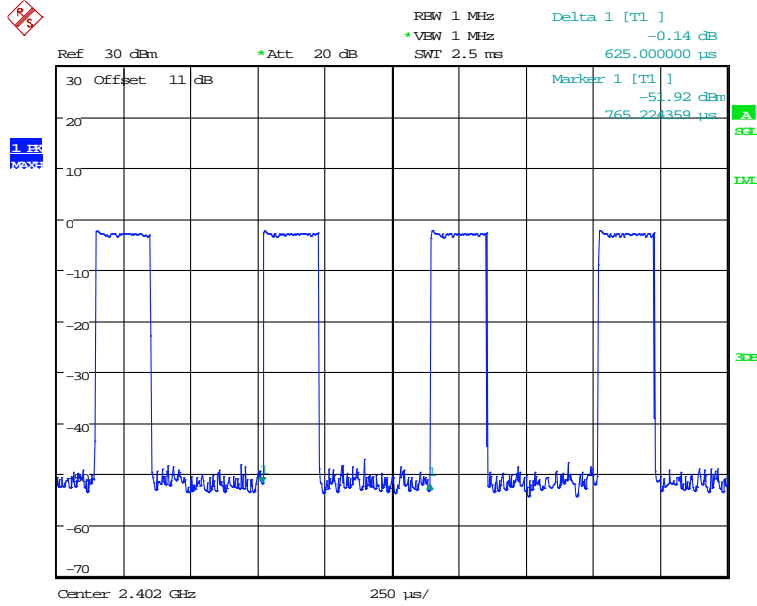
2M



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Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

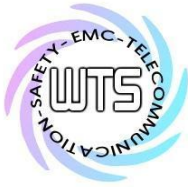


DUTY BLE 2M  
Date: 8.MAY.2024 16:29:04

## 1.6 Test standards

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





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**2 Test configuration**

**2.1 Test environment**

Relative humidity content: 20 ... 75 %

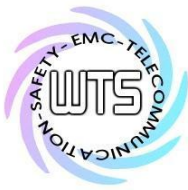
Air pressure: 86 ... 103 kPa

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) (Spurious Emissions radiated – Transmitter operating)	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 (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 (Emissions in nonrestricted frequency bands)	Expanded Uncertainty : 0.67 dBc

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



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

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## 2.3 Test Equipment List

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

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
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	2024/2/16	2025/2/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15

## 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	2023/9/20	2024/9/19
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2024/2/16	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2023/7/14	2024/7/13
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	2023/7/14	2024/7/13
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2023/7/14	2024/7/13
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2023/7/14	2024/7/13
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

## AC Conducted Emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2023/6/12	2024/6/11
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2023/10/26	2024/10/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-Cable 093	BNC Cable (3m)	EMCCFD-300 -BM- BM-3000	240109	EMCI	2024/1/10	2025/1/9
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



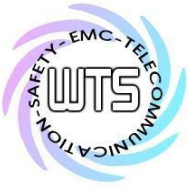
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## **3 Test results (enclosure)**

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(d), 15.205, 15.209	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emissions in nonrestricted frequency bands	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 6 dB Bandwidth	15.247(a)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



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## **3.1 Peak Output Power (transmitter)**

### **3.1.1 Applicable Standard**

FCC Rule: 15.247(b)(3)

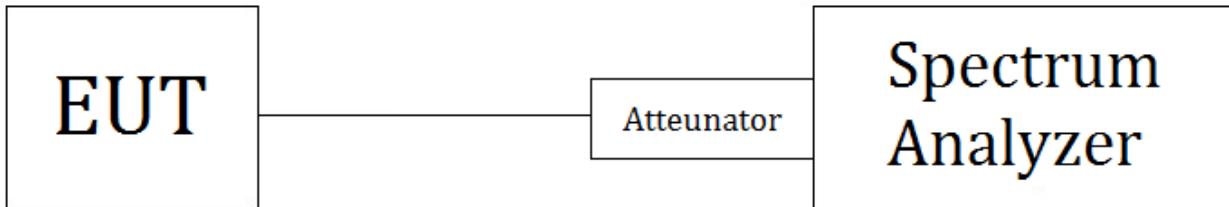
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### **3.1.2 Test procedure**

Following Subclause 11.9.1.1 of ANSI C63.10

1. Set the RBW  $\geq$  DTS bandwidth , VBW  $\geq$  [3  $\times$  RBW] , span  $\geq$  [3  $\times$  RBW].
2. Sweep time = auto couple , Detector = peak , Trace mode = max hold.
3. Allow trace to fully stabilize and determine the peak amplitude level.

### **3.1.3 Test Setup**



### **3.1.4 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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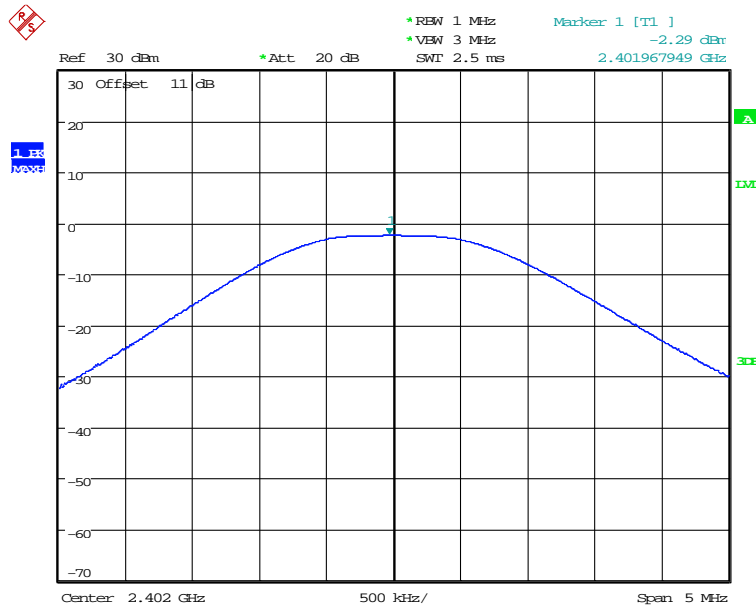
### 3.1.5 Test Environmental Conditions

Test date: 2024-05-08 Temperature: 31.4°C Humidity: 53.2% Tester: Rick

### 3.1.6 Test results

Band	Mode	Channel	Power (dBm)	Limit (dBm)
2.4GHz	BLE 1M	Ch 0 : 2402 MHz	-2.29	30
		Ch 19 : 2440 MHz	-3.48	30
		Ch 39 : 2480 MHz	-4.89	30
	BLE 2M	Ch 0 : 2402 MHz	-2.24	30
		Ch 19 : 2440 MHz	-3.47	30
		Ch 39 : 2480 MHz	-4.84	30

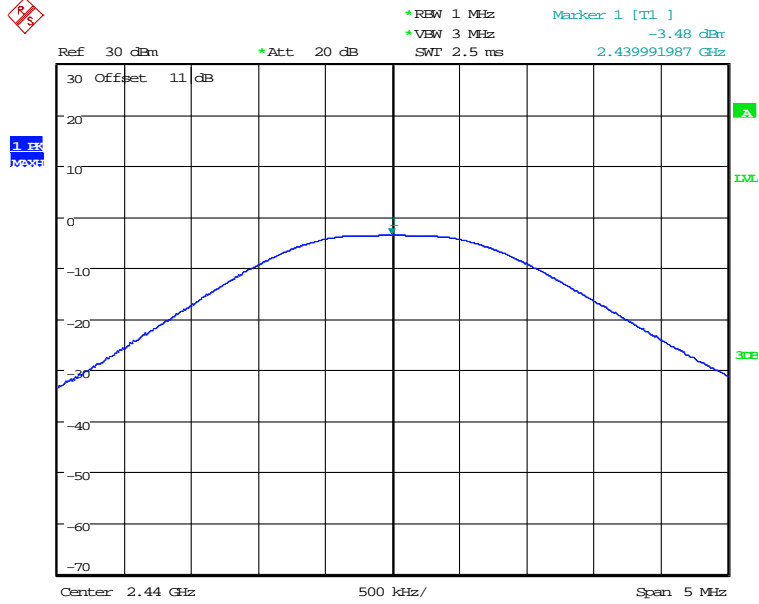
BLE  
1M



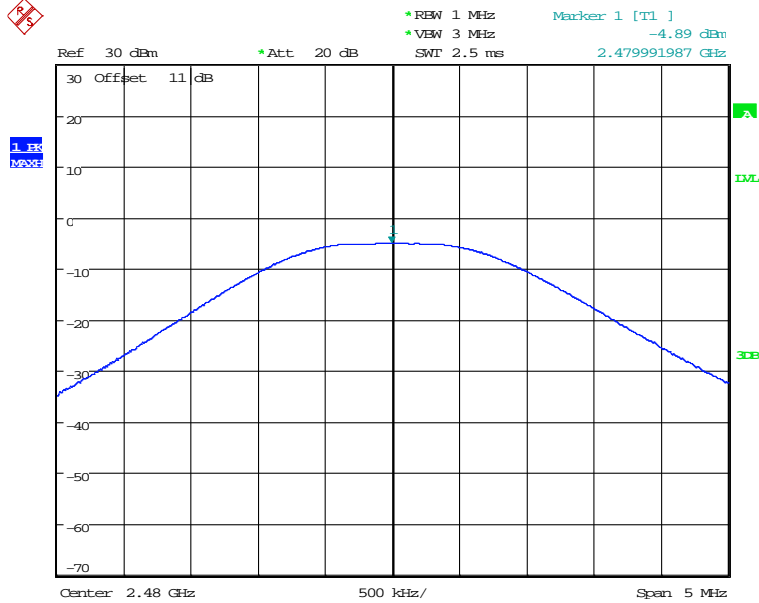
MAX OUTPUT POWER BLE 1M CH00  
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Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



MAX OUTPUT POWER BLE 1M CH19  
Date: 8.MAY.2024 16:12:32



MAX OUTPUT POWER BLE 1M CH39  
Date: 8.MAY.2024 16:13:13

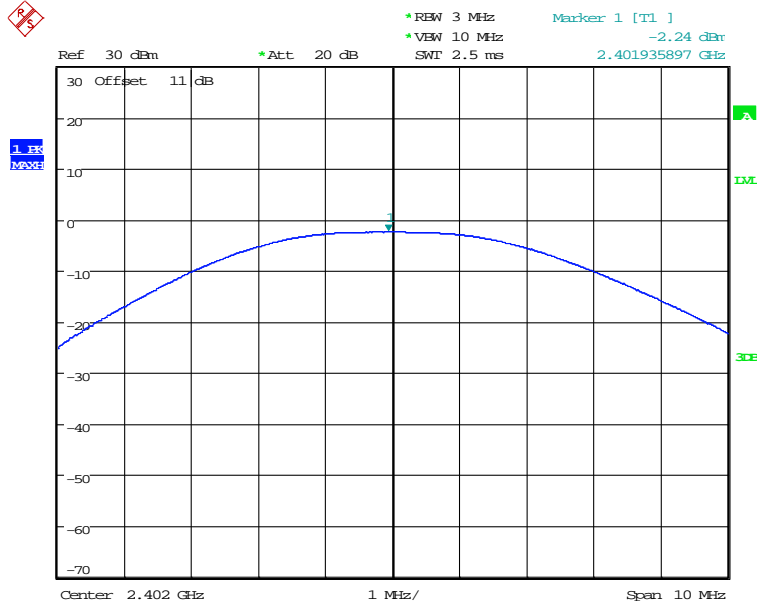


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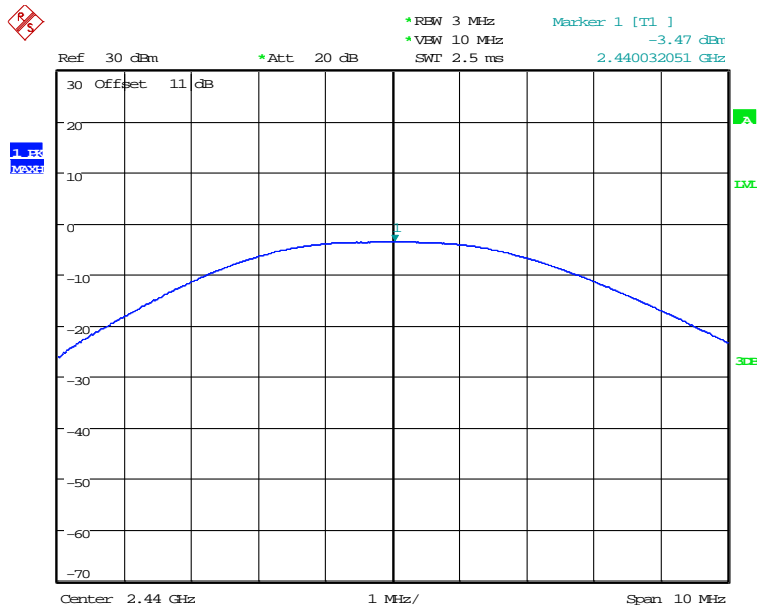
Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

2M



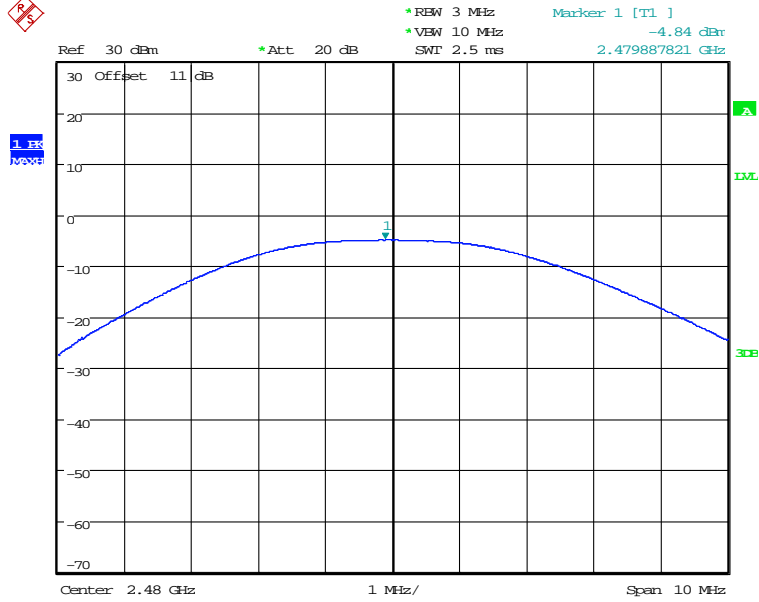
MAX OUTPUT POWER BLE 2M CH00  
Date: 8.MAY.2024 16:14:19



MAX OUTPUT POWER BLE 2M CH19  
Date: 8.MAY.2024 16:15:11



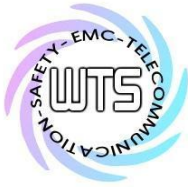
Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



MAX OUTPUT POWER BLE 2M CH39  
Date: 8.MAY.2024 16:15:56

Test equipment used: Please see test equipment utilized (RF Conducted).





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**3.2 Spurious Emissions radiated – Transmitter operating**

**3.2.1 Applicable Standard**

FCC Rules: 15.247 (d), 15.205, 15.209

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).

**3.2.2 Test procedure**

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m height to find out the highest emissions.
3. Receiver or Spectrum analyzer configuration
  - (a)120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
  - (b)RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
  - (c)RBW=1MHz, VBW=10Hz(1/T) and Peak detector is for average measured value of radiated emission above 1GHz.

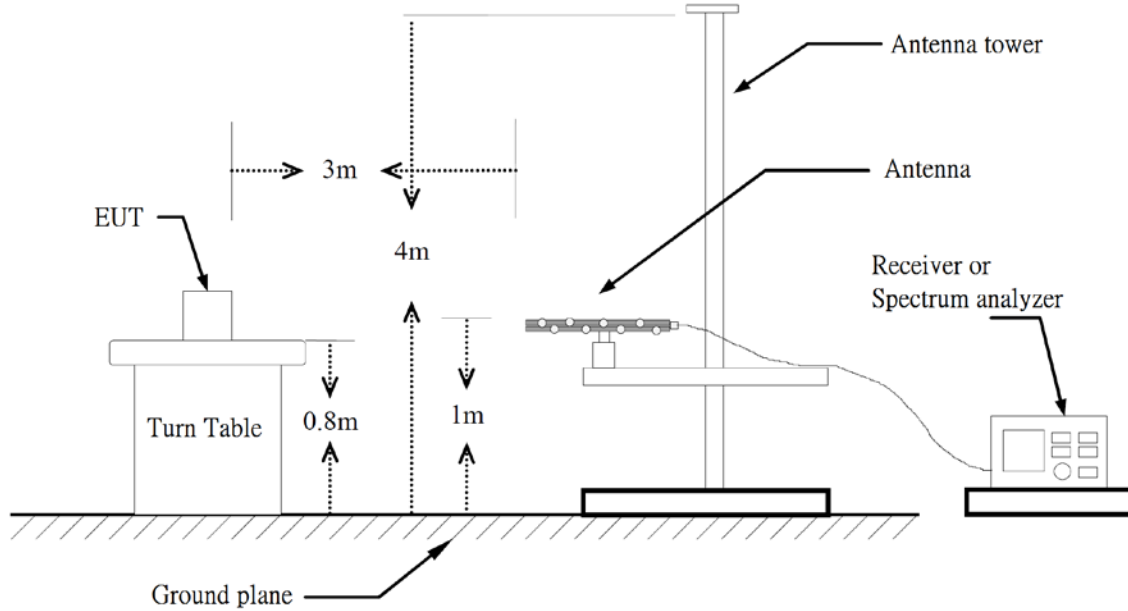
**3.2.3 Limits**

Frequency (MHz)	Field strength (uV/m)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

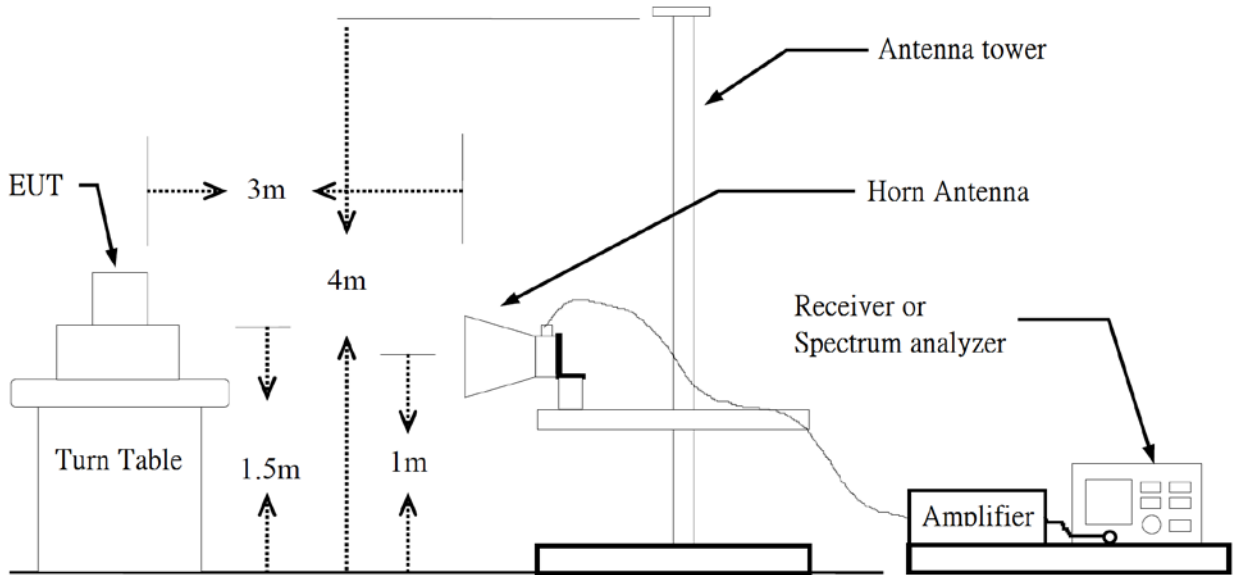
Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

**3.2.4 Test Setup**



**Below 1 GHz**



**Above 1 GHz**

**3.2.5 Test results (With Environmental Conditions)**

Explanation: See attached diagrams in Appendix.



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### **3.3 Emissions in nonrestricted frequency bands**

#### **3.3.1 Applicable Standard**

FCC Rules: 15.247(d)

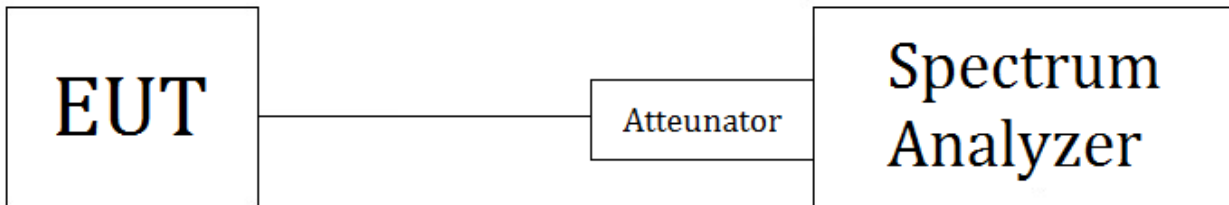
In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based 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.

#### **3.3.2 Test procedure**

1. Set RBW = 100 kHz , VBW  $\geq [3 \times \text{RBW}]$
2. Set Detector = peak , Sweep time = auto , Trace mode = max hold, and allow sweep to continue until the trace stabilizes
3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

#### **3.3.3 Test setup**

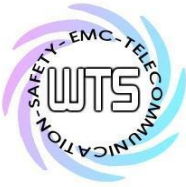


#### **3.3.4 Limits**

See 3.3.1

#### **3.3.5 Test Environmental Conditions**

Test date: 2024-05-08 Temperature: 31.4°C Humidity: 53.2% Tester: Rick



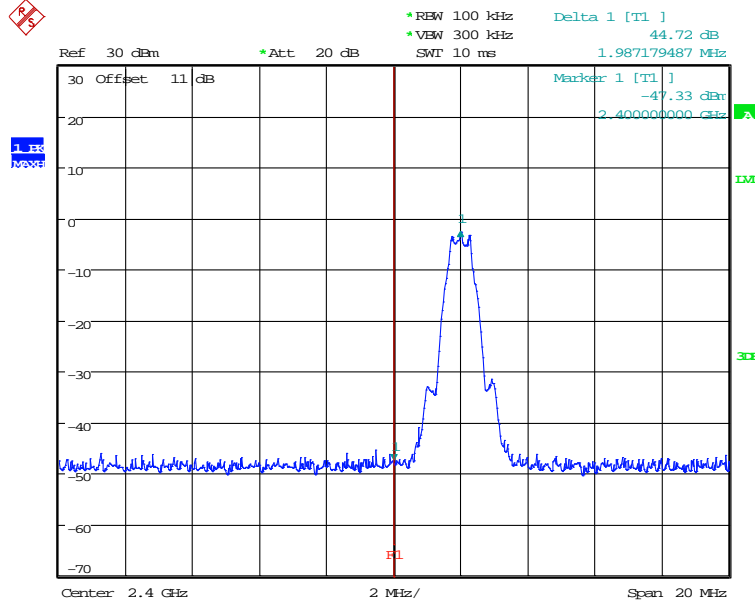
Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

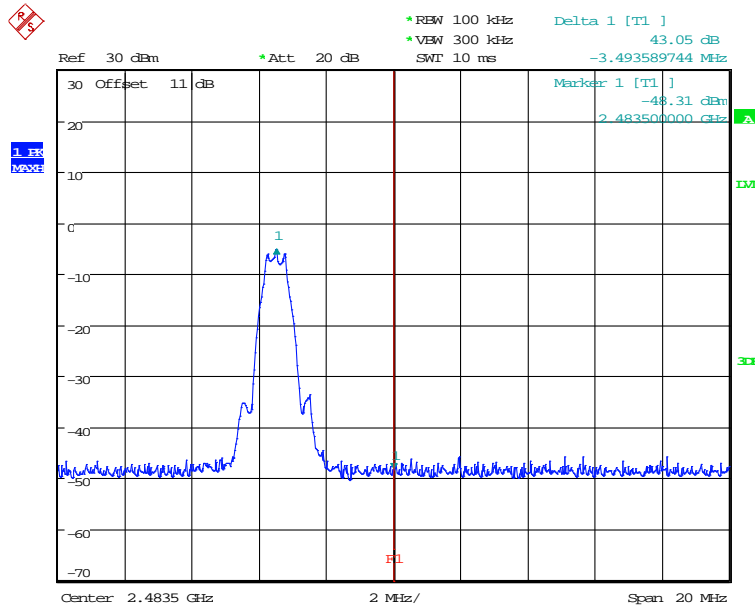
### 3.3.6 Test results

BLE

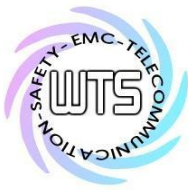
1M



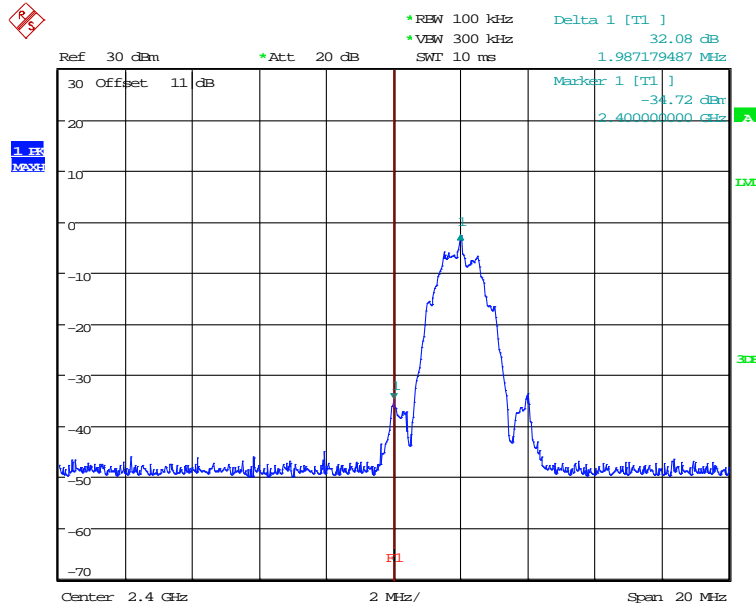
BANDEDGE BLE 1M CH00  
Date: 8.MAY.2024 16:12:08



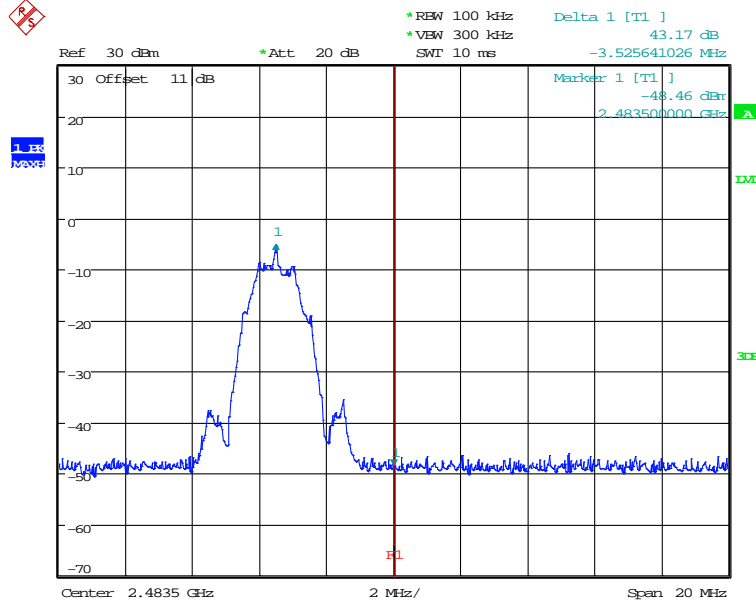
BANDEDGE BLE 1M CH39  
Date: 8.MAY.2024 16:13:44



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03  
2M



BANDEdge BLE 2M CH00  
Date: 8.MAY.2024 16:14:49



BANDEdge BLE 2M CH39  
Date: 8.MAY.2024 16:16:25

Test equipment used: Please see test equipment utilized (RF Conducted).



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

### **3.4 Minimum 6 dB Bandwidth**

#### **3.4.1 Applicable Standard**

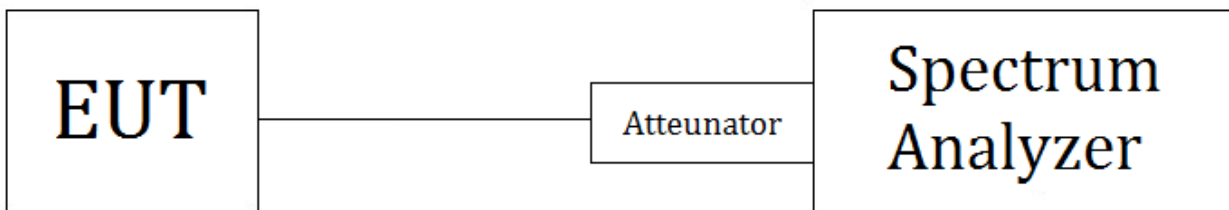
FCC Rules: 15.247(a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **3.4.2 Test procedure**

1. Set RBW = 100 kHz , Set the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak , Trace mode = max hold , Sweep = auto couple and allow the trace to stabilize.
3. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### **3.4.3 Test setup**

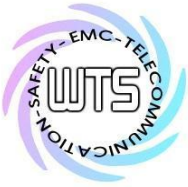


#### **3.4.4 Limits**

Frequency Range (MHz)	Limits (kHz)
902-928	$\geq 500$
2400-2483.5	
5725-5850	

#### **3.4.5 Test Environmental Conditions**

Test date: 2024-05-08 Temperature: 31.4°C Humidity: 53.2% Tester: Rick

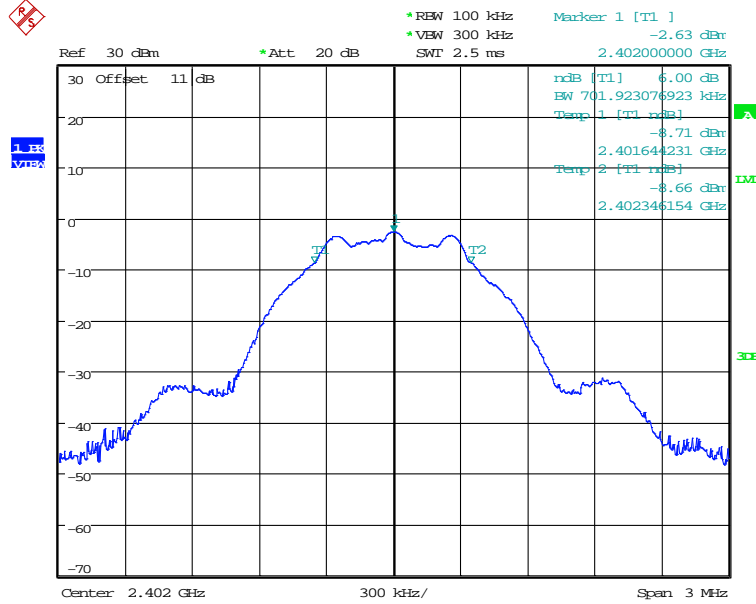


Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

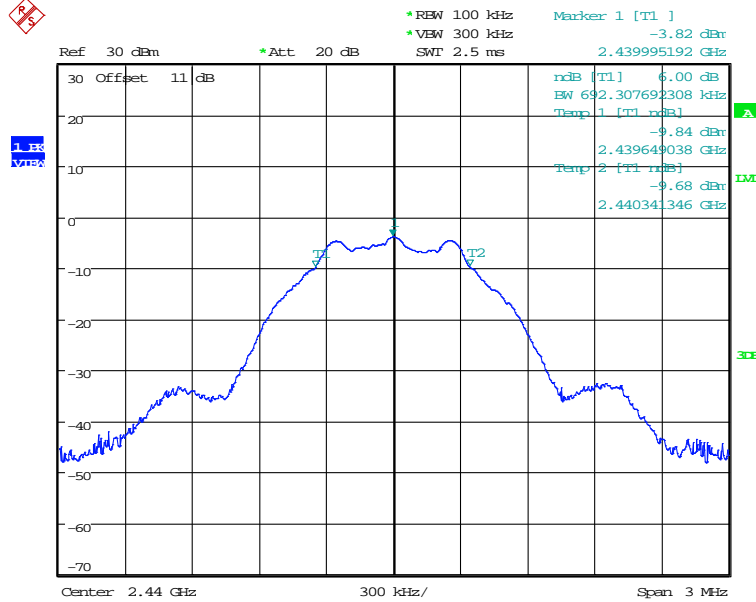
### 3.4.6 Test results

BLE

1M



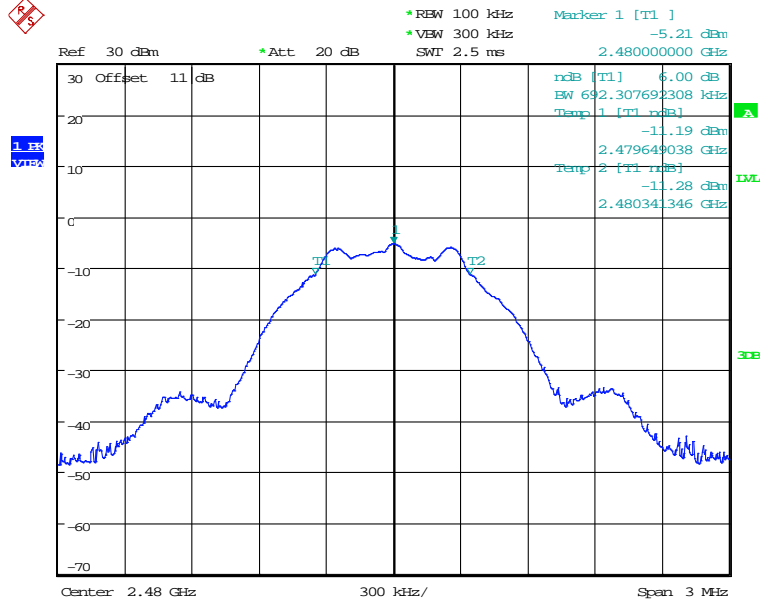
6DB BANDWIDTH BLE 1M CH00  
 Date: 8.MAY.2024 16:11:48



6DB BANDWIDTH BLE 1M CH19  
 Date: 8.MAY.2024 16:12:42

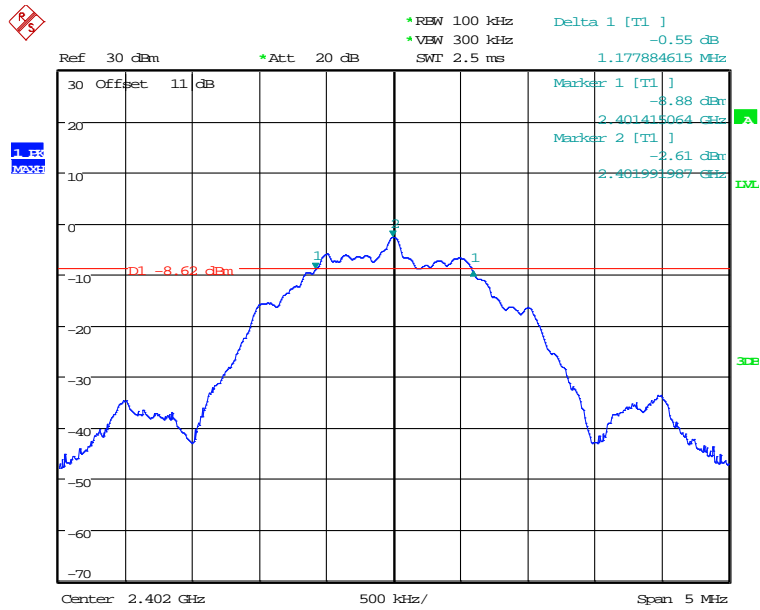


Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



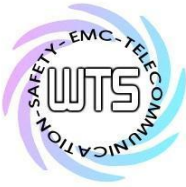
6DB BANDWIDTH BLE 1M CH39  
Date: 8.MAY.2024 16:13:23

2M

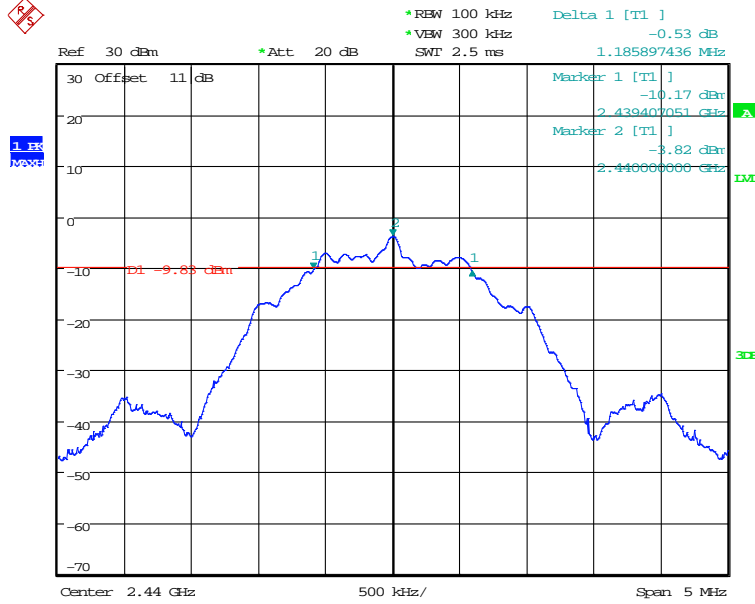


6DB BANDWIDTH BLE 2M CH0  
Date: 8.MAY.2024 16:25:36

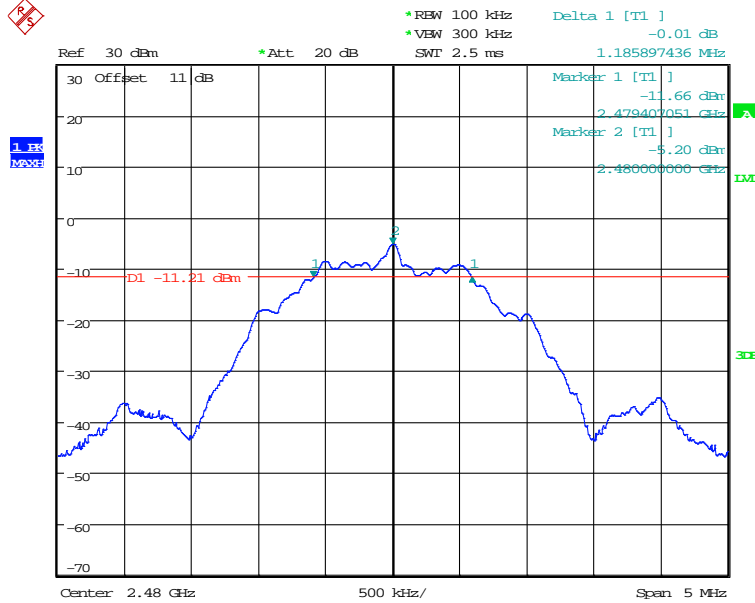




Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

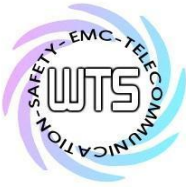


6DB BANDWIDTH BLE 2M CH19  
Date: 8.MAY.2024 16:24:29



6DB BANDWIDTH BLE 2M CH39  
Date: 8.MAY.2024 16:23:19

Test equipment used: Please see test equipment utilized (RF Conducted).



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

**3.5 Peak Power Spectral Density**

**3.5.1 Applicable Standard**

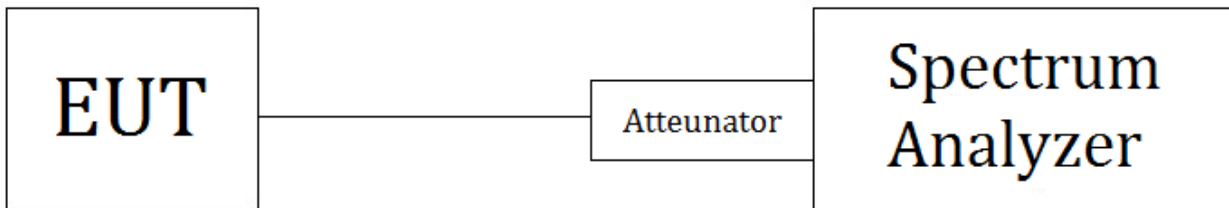
FCC Rules: 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

**3.5.2 Test procedure**

1. Set the RBW to  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$  , the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak , Sweep time = auto couple , Trace mode = max hold and allow trace to fully stabilize
3. Use the peak marker function to determine the maximum amplitude level within the RBW.

**3.5.3 Test setup**



**3.5.4 Limits**

Frequency Range (MHz)	Limits (dBm/3KHz)
902-928	8
2400-2483.5	
5725-5850	

**3.5.5 Test Environmental Conditions**

Test date: 2024-05-08 Temperature: 31.4°C Humidity: 53.2% Tester: Rick



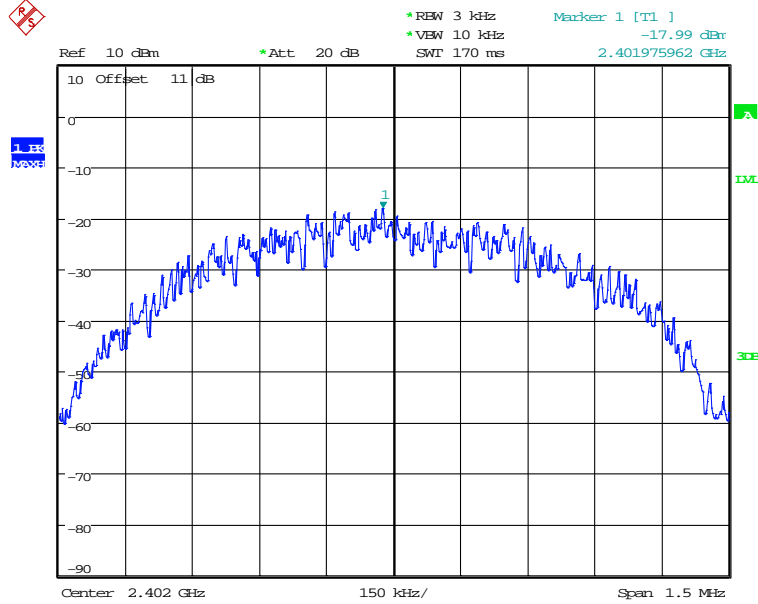
Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

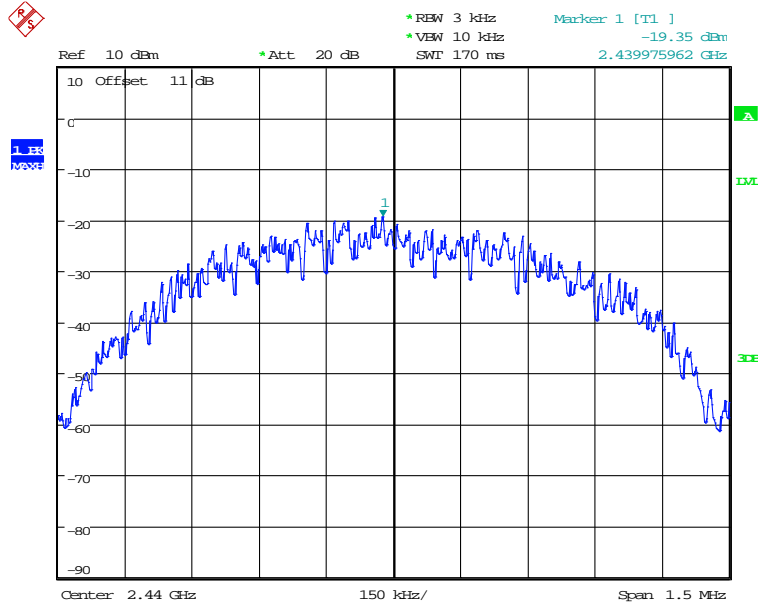
### 3.5.6 Test results

BLE

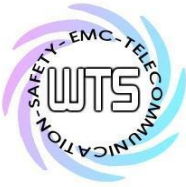
1M



POWER DENSITY BLE 1M CH00  
Date: 8.MAY.2024 16:12:00

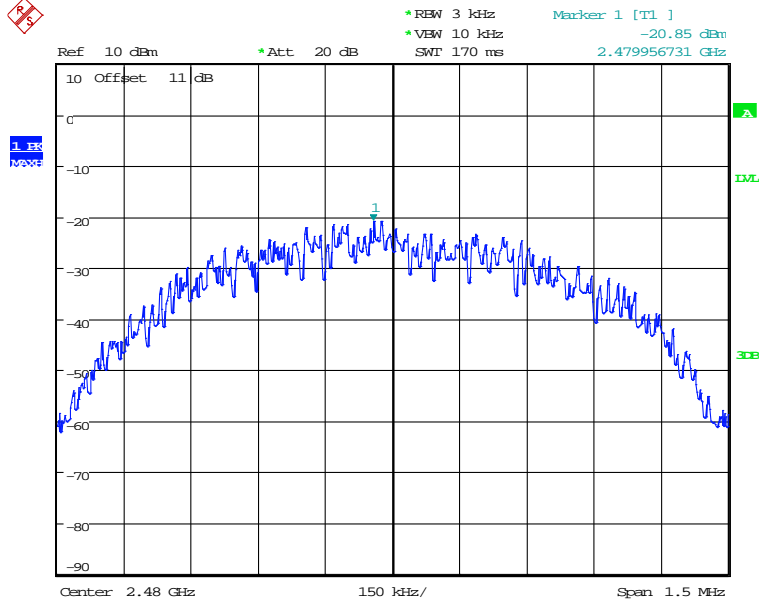


POWER DENSITY BLE 1M CH19  
Date: 8.MAY.2024 16:12:54



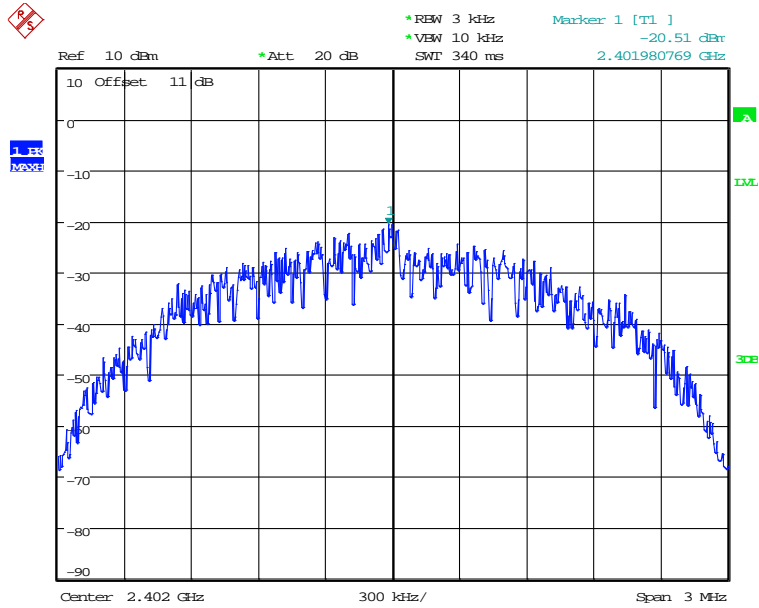
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



POWER DENSITY BLE 1M CH39  
Date: 8.MAY.2024 16:13:35

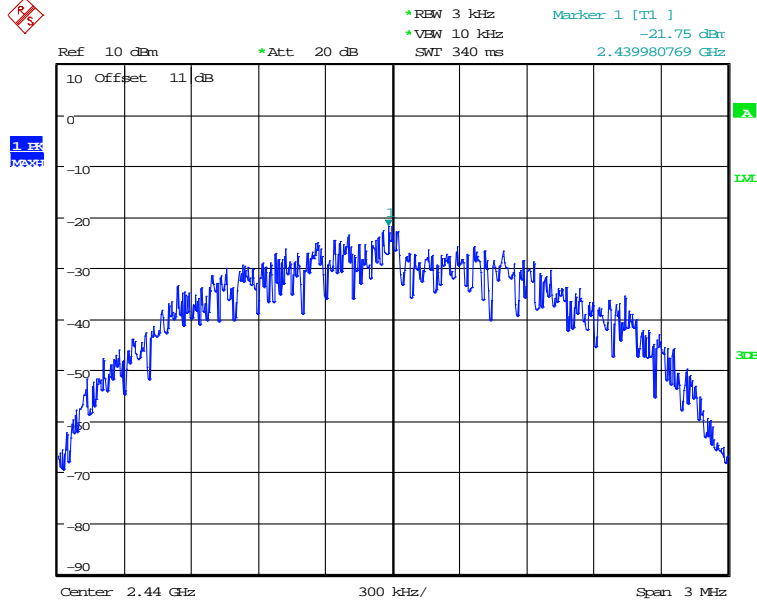
2M



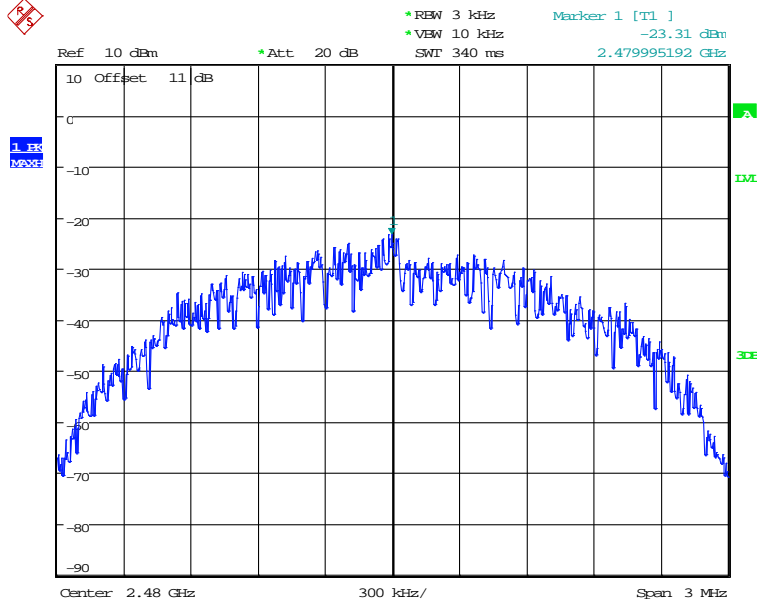
POWER DENSITY BLE 2M CH00  
Date: 8.MAY.2024 16:14:41



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03



POWER DENSITY BLE 2M CH19  
Date: 8.MAY.2024 16:15:33



POWER DENSITY BLE 2M CH39  
Date: 8.MAY.2024 16:16:17

Test equipment used: Please see test equipment utilized (RF Conducted).

Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

**3.6 Power Line Conducted Emission**

**3.6.1 Applicable Standard**

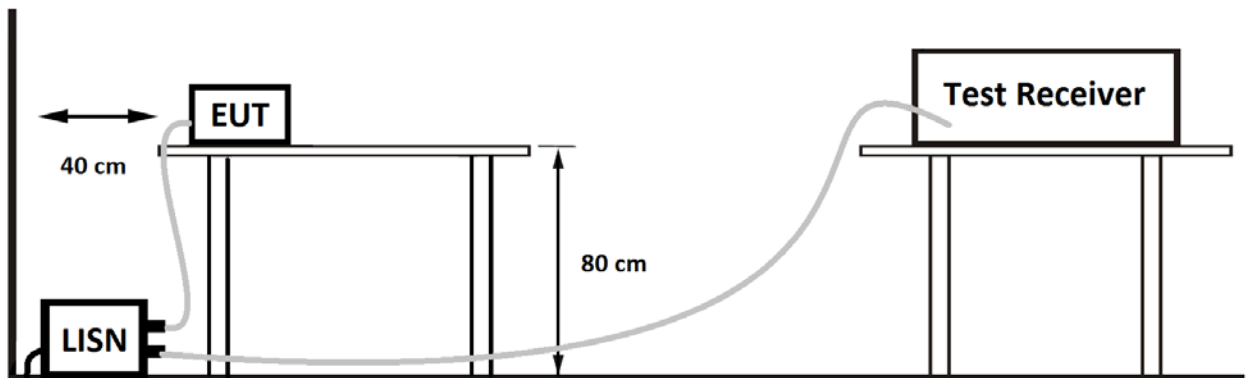
FCC Rules:15.207(a)

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.

**3.6.2 Test procedure**

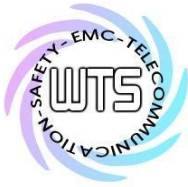
1. EUT is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. Connect EUT to a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). AC input is 120V/60Hz
3. This measurement was transact first 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.

**3.6.3 Test setup**



**3.6.4 Limits**

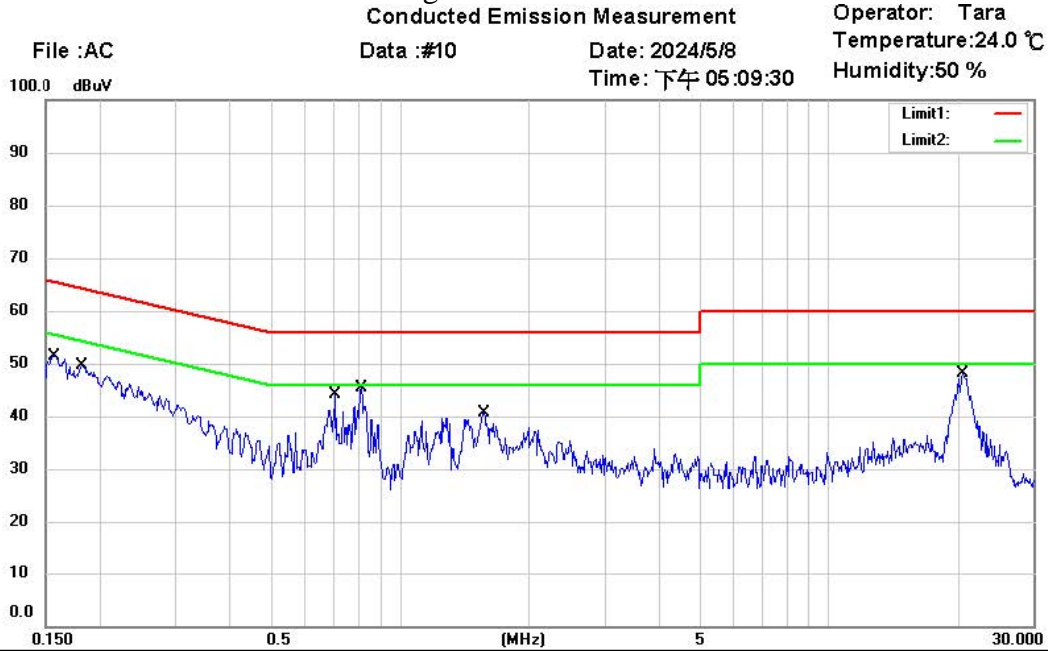
Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50



Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

### 3.6.5 Test results (With Environmental Conditions)

Mode 1: TX 125kHz+RX 315MHz+Charge



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

Power : 120 Vac.

M/N:

Test Mode : Mode 1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1573	36.02	QP	9.64	45.66	65.61	-19.95	
	0.1573	19.14	AVG	9.64	28.78	55.61	-26.83	
	0.1822	33.89	QP	9.64	43.53	64.38	-20.85	
	0.1822	17.81	AVG	9.64	27.45	54.38	-26.93	
	0.7070	21.53	QP	9.67	31.20	56.00	-24.80	
	0.7070	10.46	AVG	9.67	20.13	46.00	-25.87	
	0.8127	27.54	QP	9.67	37.21	56.00	-18.79	
*	0.8127	19.23	AVG	9.67	28.90	46.00	-17.10	
	1.5620	20.29	QP	9.69	29.98	56.00	-26.02	
	1.5620	5.41	AVG	9.69	15.10	46.00	-30.90	
	20.5500	31.68	QP	10.05	41.73	60.00	-18.27	
	20.5500	13.13	AVG	10.05	23.18	50.00	-26.82	



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

Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

Conducted Emission Measurement  
 Data :#9 Date: 2024/5/8  
 Time: 下午 05:07:09

Operator: Tara  
 Temperature:24.0 °C  
 Humidity:50 %



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22404-23411

Power : 120 V.a.c.

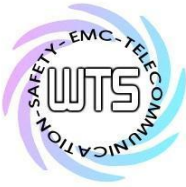
M/N:

Test Mode : Mode 1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1520	26.64	QP	9.66	36.30	65.89	-29.59	
	0.1520	14.06	AVG	9.66	23.72	55.89	-32.17	
	0.1808	23.87	QP	9.65	33.52	64.45	-30.93	
	0.1808	11.49	AVG	9.65	21.14	54.45	-33.31	
	0.2102	25.18	QP	9.65	34.83	63.20	-28.37	
	0.2102	3.36	AVG	9.65	13.01	53.20	-40.19	
	0.7227	26.32	QP	9.67	35.99	56.00	-20.01	
	0.7227	10.78	AVG	9.67	20.45	46.00	-25.55	
*	0.8037	28.20	QP	9.67	37.87	56.00	-18.13	
	0.8037	14.36	AVG	9.67	24.03	46.00	-21.97	
	20.6000	30.85	QP	9.89	40.74	60.00	-19.26	
	20.6000	11.87	AVG	9.89	21.76	50.00	-28.24	





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

Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

Mode 2: TX 125kHz+RX 434MHz+Charge

Conducted Emission Measurement

Operator: Tara

File :AC

Data :#8

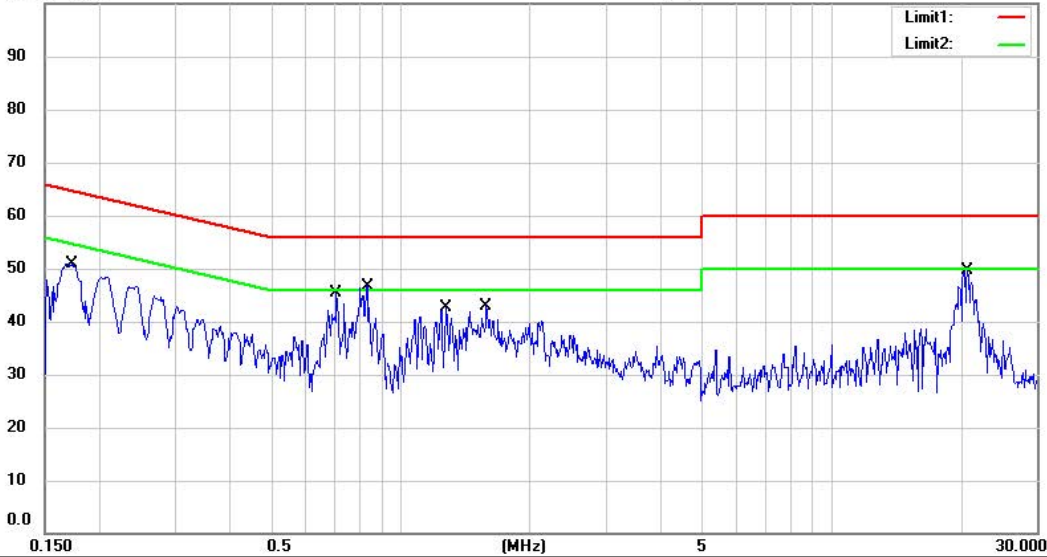
Date: 2024/5/8

Temperature:24.0 °C

Time: 下午 05:04:00

Humidity:50 %

100.0 dBuV



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

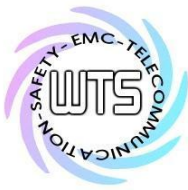
Power : 120 Vac.

M/N:

Test Mode : Mode 2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1724	27.33	QP	9.64	36.97	64.84	-27.87	
	0.1724	4.63	AVG	9.64	14.27	54.84	-40.57	
	0.7070	28.33	QP	9.67	38.00	56.00	-18.00	
*	0.7070	20.51	AVG	9.67	30.18	46.00	-15.82	
	0.8307	23.98	QP	9.67	33.65	56.00	-22.35	
	0.8307	15.17	AVG	9.67	24.84	46.00	-21.16	
	1.2808	25.07	QP	9.69	34.76	56.00	-21.24	
	1.2808	13.46	AVG	9.69	23.15	46.00	-22.85	
	1.5800	22.33	QP	9.69	32.02	56.00	-23.98	
	1.5800	4.89	AVG	9.69	14.58	46.00	-31.42	
	20.7000	31.44	QP	10.05	41.49	60.00	-18.51	
	20.7000	12.79	AVG	10.05	22.84	50.00	-27.16	



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

Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

Conducted Emission Measurement

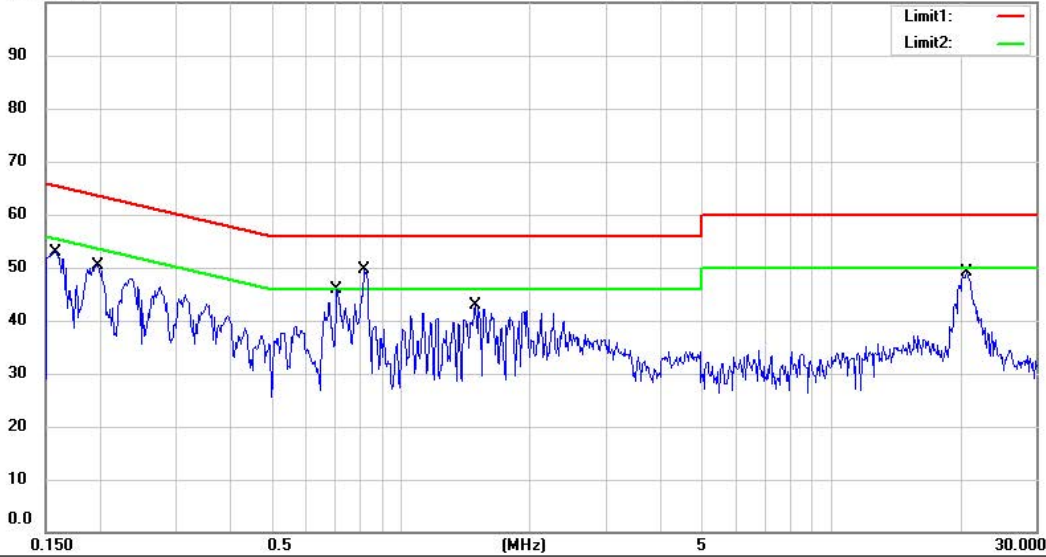
Operator: Tara  
 Temperature: 24.0 °C  
 Humidity: 50 %

File : AC  
 100.0 dBuV

Data : #7

Date: 2024/5/8

Time: 下午 05:01:48



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1575	26.22	QP	9.66	35.88	65.59	-29.71	
	0.1575	14.28	AVG	9.66	23.94	55.59	-31.65	
	0.1978	18.25	QP	9.65	27.90	63.70	-35.80	
	0.1978	-1.25	AVG	9.65	8.40	53.70	-45.30	
	0.7070	19.04	QP	9.67	28.71	56.00	-27.29	
	0.7070	4.13	AVG	9.67	13.80	46.00	-32.20	
	0.8195	26.45	QP	9.67	36.12	56.00	-19.88	
	0.8195	9.37	AVG	9.67	19.04	46.00	-26.96	
	1.4900	19.90	QP	9.69	29.59	56.00	-26.41	
	1.4900	0.69	AVG	9.69	10.38	46.00	-35.62	
*	20.6875	31.80	QP	9.89	41.69	60.00	-18.31	
	20.6875	13.52	AVG	9.89	23.41	50.00	-26.59	



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

Registration number: W6M22404-23411-C-1

FCC ID: HQXTT03

Mode 3: TX 2440MHz+RX BLE+Charge

Conducted Emission Measurement

Operator: Tara

File :AC

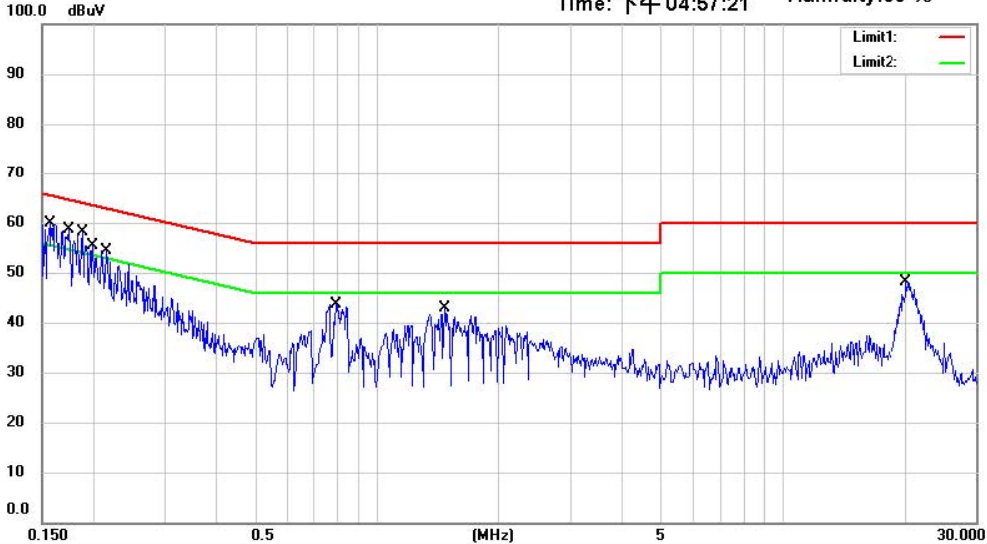
Data :#6

Date: 2024/5/8

Temperature :24.0 °C

Time: 下午 04:57:21

Humidity:50 %



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

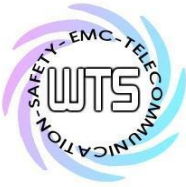
Power : 120 Va.c.

M/N:

Test Mode : Mode 3

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1565	28.35	QP	9.64	37.99	65.65	-27.66	
	0.1565	16.47	AVG	9.64	26.11	55.65	-29.54	
	0.1736	26.14	QP	9.64	35.78	64.79	-29.01	
	0.1736	5.60	AVG	9.64	15.24	54.79	-39.55	
*	0.1880	35.94	QP	9.64	45.58	64.12	-18.54	
	0.1880	18.41	AVG	9.64	28.05	54.12	-26.07	
	0.1988	19.55	QP	9.64	29.19	63.66	-34.47	
	0.1988	0.01	AVG	9.64	9.65	53.66	-44.01	
	0.2151	25.52	QP	9.64	35.16	63.01	-27.85	
	0.2151	9.49	AVG	9.64	19.13	53.01	-33.88	
	0.7947	22.79	QP	9.67	32.46	56.00	-23.54	
	0.7947	11.74	AVG	9.67	21.41	46.00	-24.59	
	1.4698	23.24	QP	9.69	32.93	56.00	-23.07	
	1.4698	9.35	AVG	9.69	19.04	46.00	-26.96	
	20.1000	29.92	QP	10.04	39.96	60.00	-20.04	
	20.1000	12.36	AVG	10.04	22.40	50.00	-27.60	

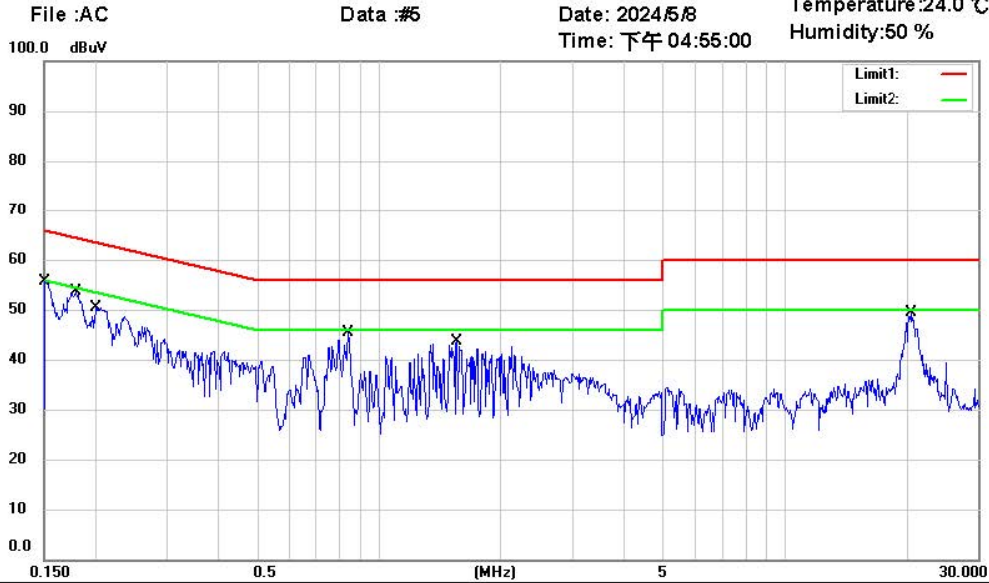


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-1  
 FCC ID: HQXTT03

Conducted Emission Measurement

Operator: Tara  
 Temperature: 24.0 °C  
 Humidity: 50 %



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22404-23411

Power : 120 Va.c.

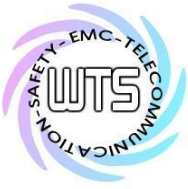
M/N:

Test Mode : Mode 3

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1507	35.50	QP	9.66	45.16	65.96	-20.80	
	0.1507	20.36	AVG	9.66	30.02	55.96	-25.94	
	0.1790	38.31	QP	9.65	47.96	64.53	-16.57	
	0.1790	21.54	AVG	9.65	31.19	54.53	-23.34	
	0.2004	32.91	QP	9.65	42.56	63.59	-21.03	
	0.2004	15.73	AVG	9.65	25.38	53.59	-28.21	
*	0.8420	31.38	QP	9.67	41.05	56.00	-14.95	
	0.8420	14.57	AVG	9.67	24.24	46.00	-21.76	
	1.5553	23.25	QP	9.69	32.94	56.00	-23.06	
	1.5553	6.87	AVG	9.69	16.56	46.00	-29.44	
	20.5000	31.17	QP	9.89	41.06	60.00	-18.94	
	20.5000	13.60	AVG	9.89	23.49	50.00	-26.51	

Explanation: ./.



Registration number: W6M22404-23411-C-1  
FCC ID: HQXTT03

**Appendix**

**Measurement diagrams**

Radiated Emission



Radiated Emission Measurement

Operator: Kai

File : 1\_BLE(1M)\_TX 2402MHz Data : #1

Date: 2024/5/17

Temperature: 23.9 °C

80.0 dBuV/m

Time: 上午 10:21:15

Humidity: 56.9 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	80.9250	52.46	QP	-17.47	34.99	40.00	100	226	-5.01	
*	254.0700	55.44	peak	-13.68	41.76	46.00	100	191	-4.24	



Radiated Emission Measurement

Operator: Kai

File : 1\_BLE(1M)\_TX 2402MHz Data : #2

Date: 2024/5/17

Temperature: 23.9 °C

80.0 dBuV/m

Time: 上午 10:22:00

Humidity: 56.9 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

Polarization: *Vertical*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	54.2500	49.11	peak	-12.75	36.36	40.00	100	359	-3.64	
*	81.4100	53.96	peak	-17.53	36.43	40.00	100	301	-3.57	



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#1

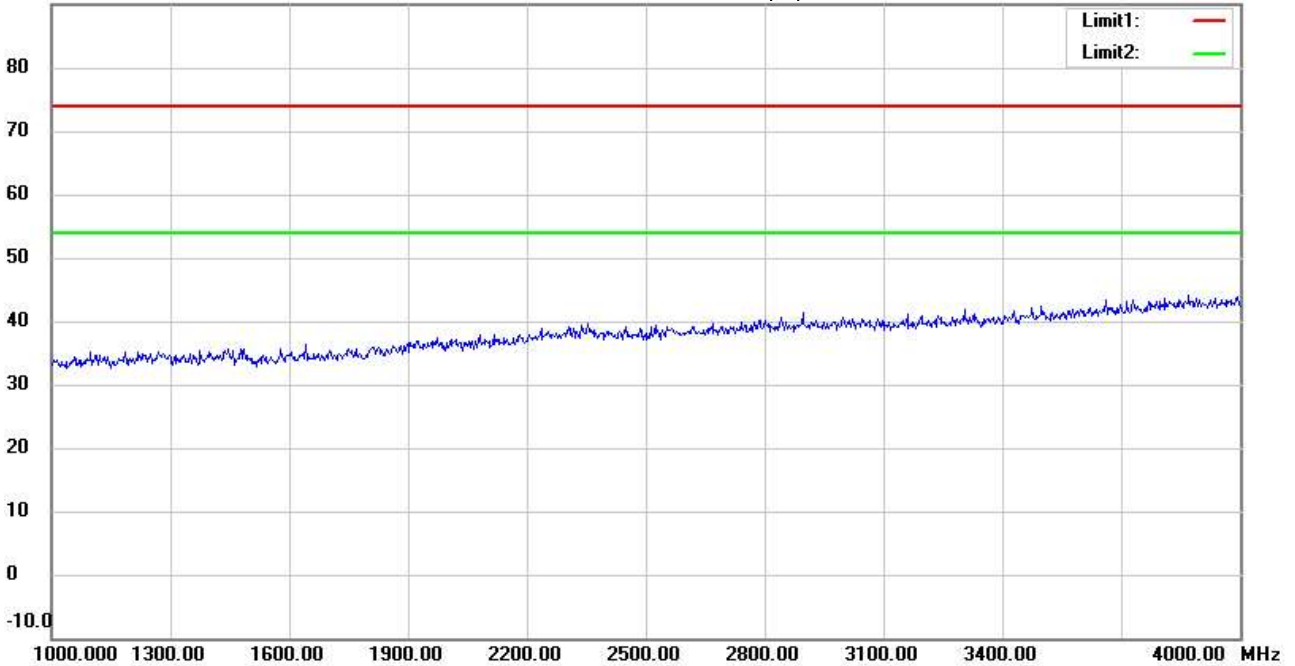
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:54:21

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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





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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#6

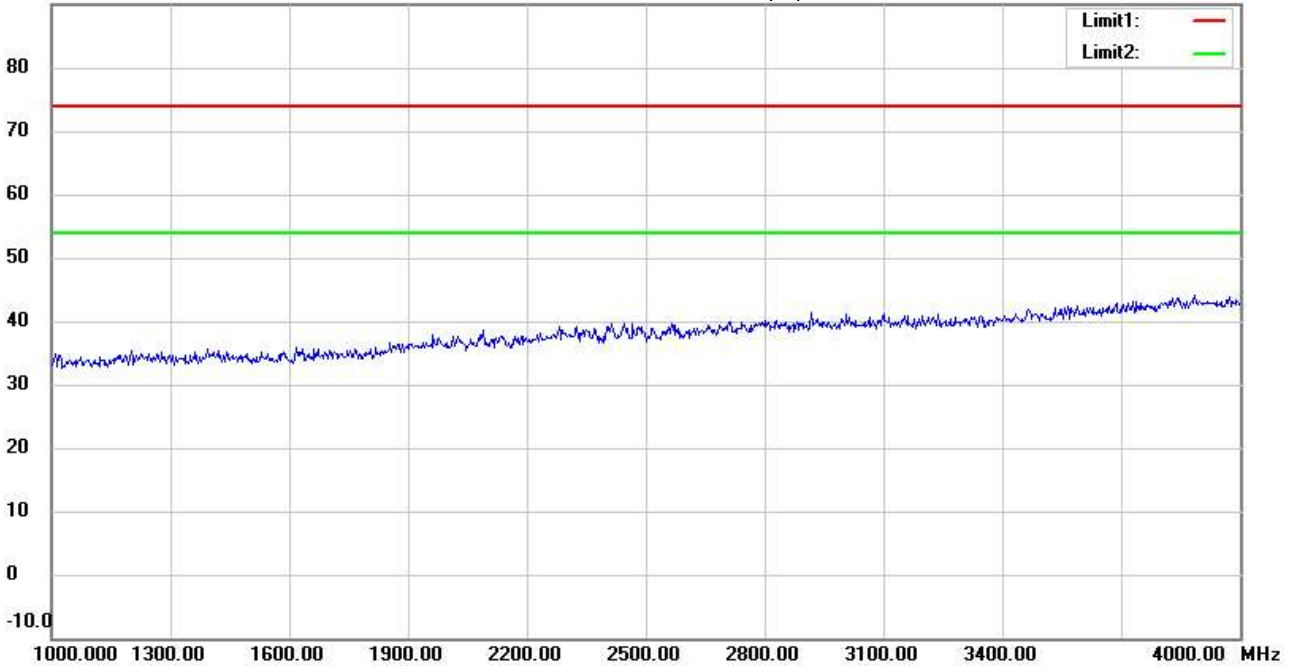
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:57:05

Humidity: 58.0 %



Site : 966A Chamber

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

EUT : W6M22404-23411

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 5 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



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#2

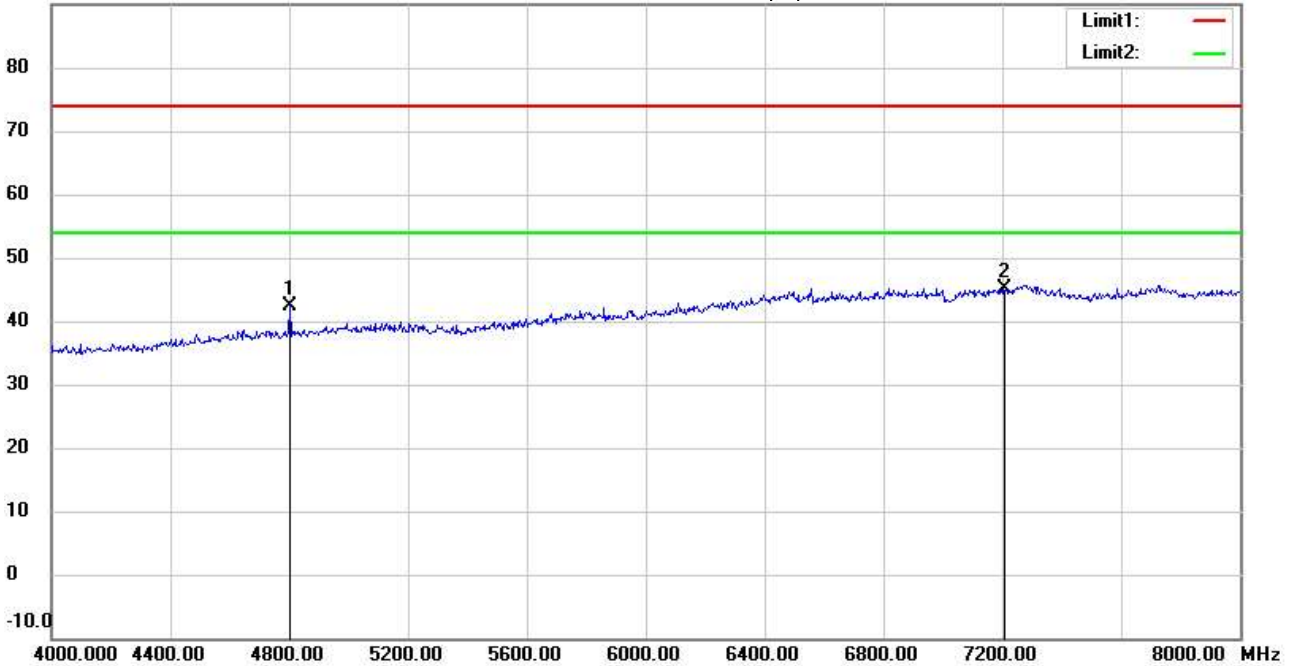
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:55:04

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	4804.000	38.10	peak	4.34	42.44	74.00	150	209	-31.56	
*	7206.000	34.13	peak	10.98	45.11	74.00	150	167	-28.89	



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#7

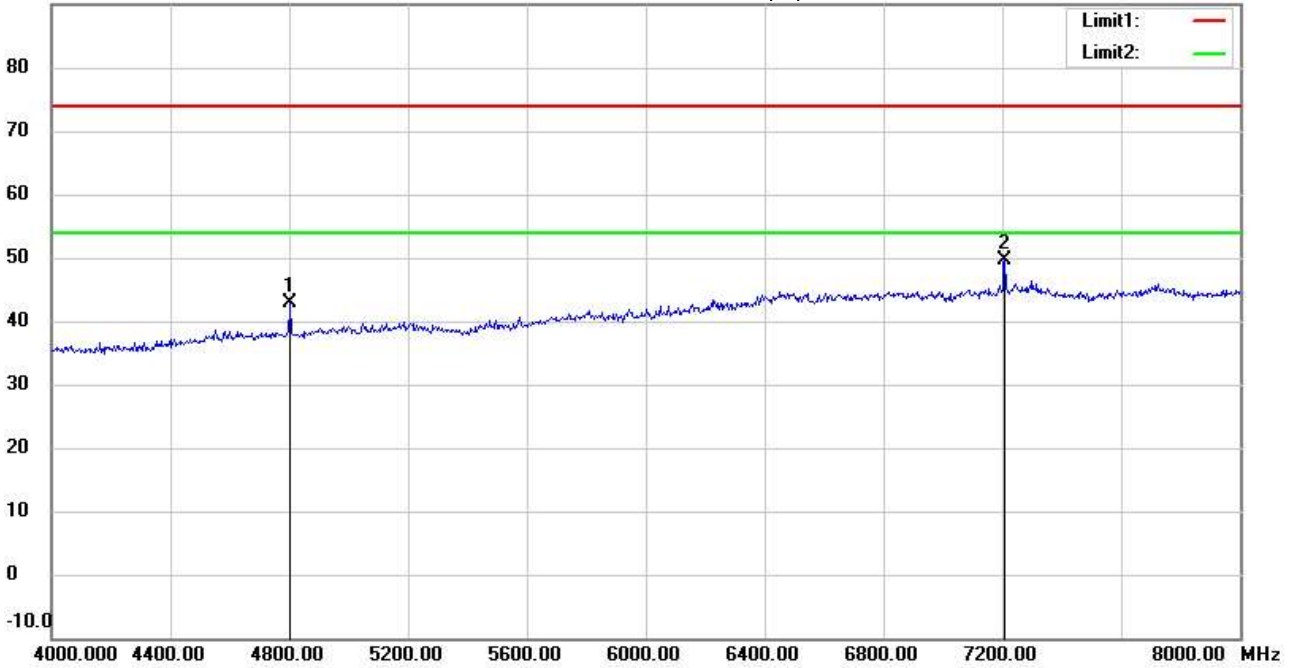
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:57:49

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Vertical*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	4804.000	38.58	peak	4.34	42.92	74.00	150	145	-31.08	
*	7208.000	38.64	peak	10.99	49.63	74.00	150	32	-24.37	



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#3

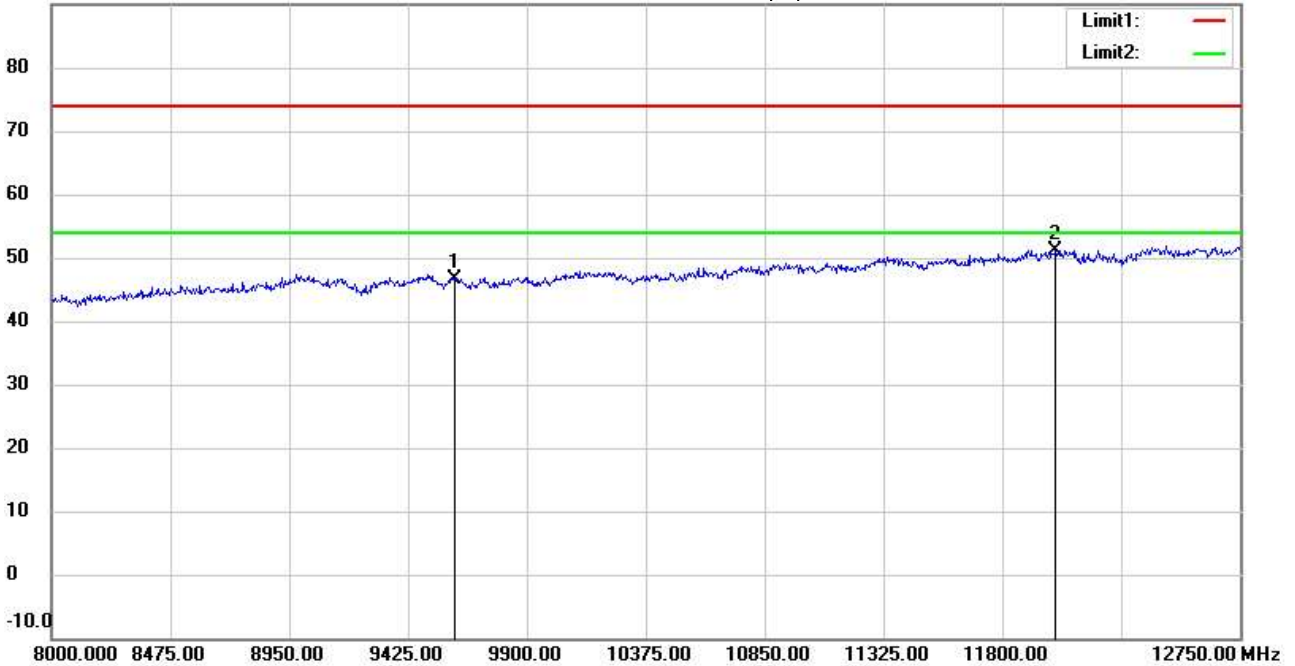
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:55:53

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	9608.000	33.88	peak	12.79	46.67	74.00	150	347	-27.33	
*	12010.000	34.25	peak	16.78	51.03	74.00	150	297	-22.97	



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#8

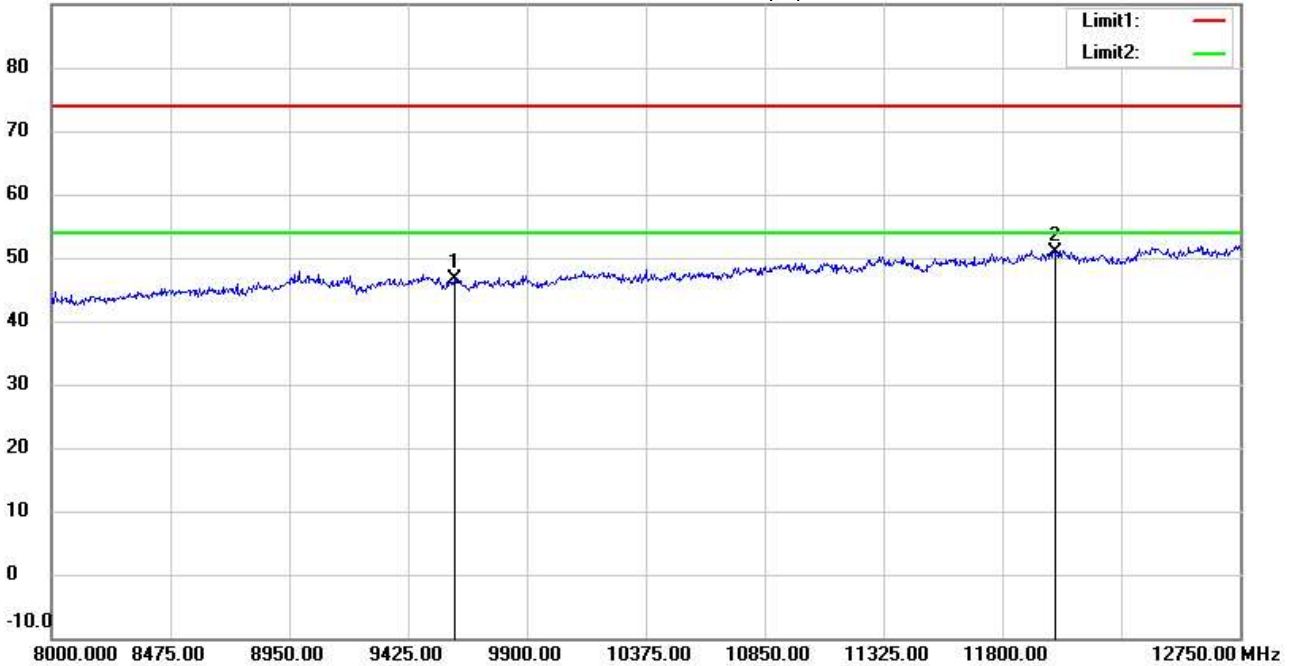
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:58:30

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Vertical*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	9608.000	33.92	peak	12.79	46.71	74.00	150	320	-27.29	
*	12010.000	34.02	peak	16.78	50.80	74.00	150	89	-23.20	



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#4

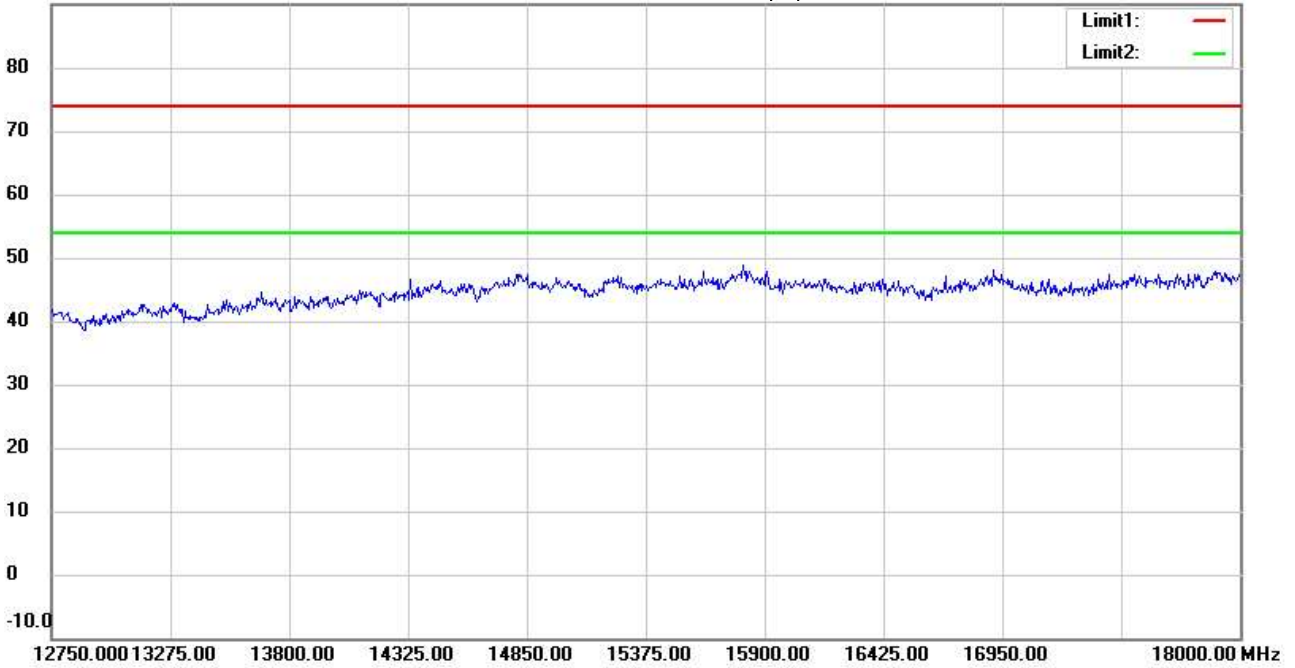
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:56:10

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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



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**Radiated Emission Measurement**

Operator: Jeff

File :3

Data :#9

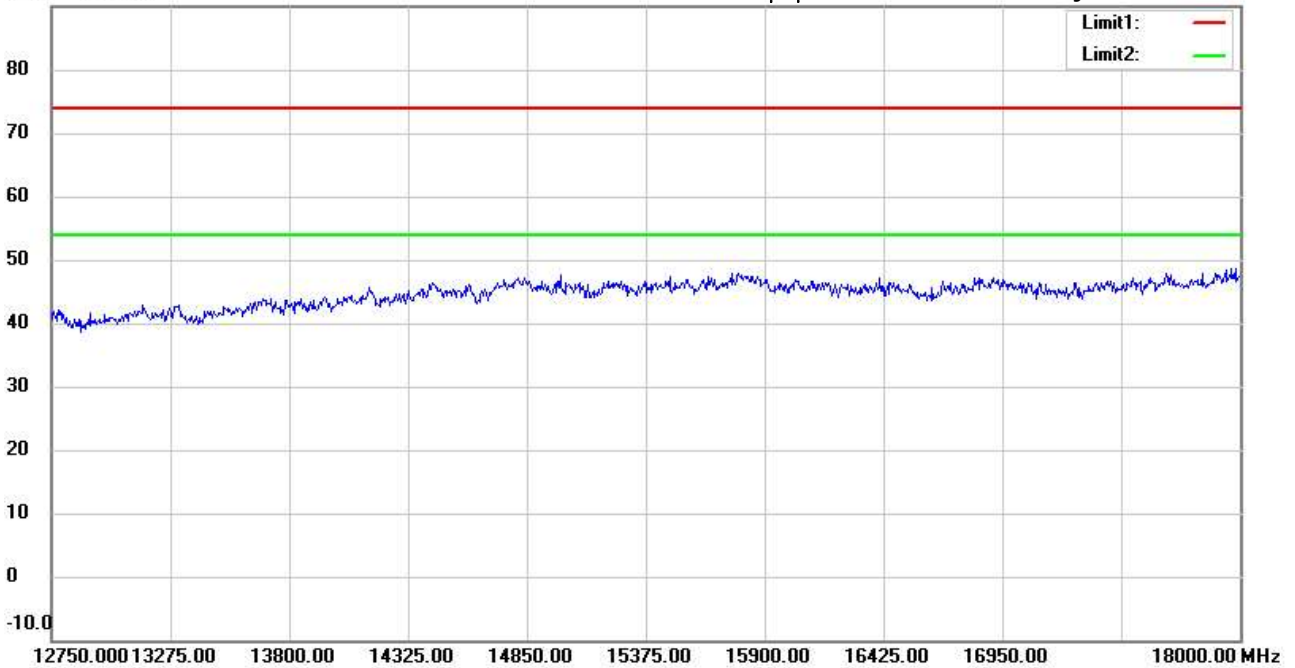
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:58:47

Humidity: 58.0 %



Site : 966A Chamber

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

EUT : W6M22404-23411

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 5 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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#5

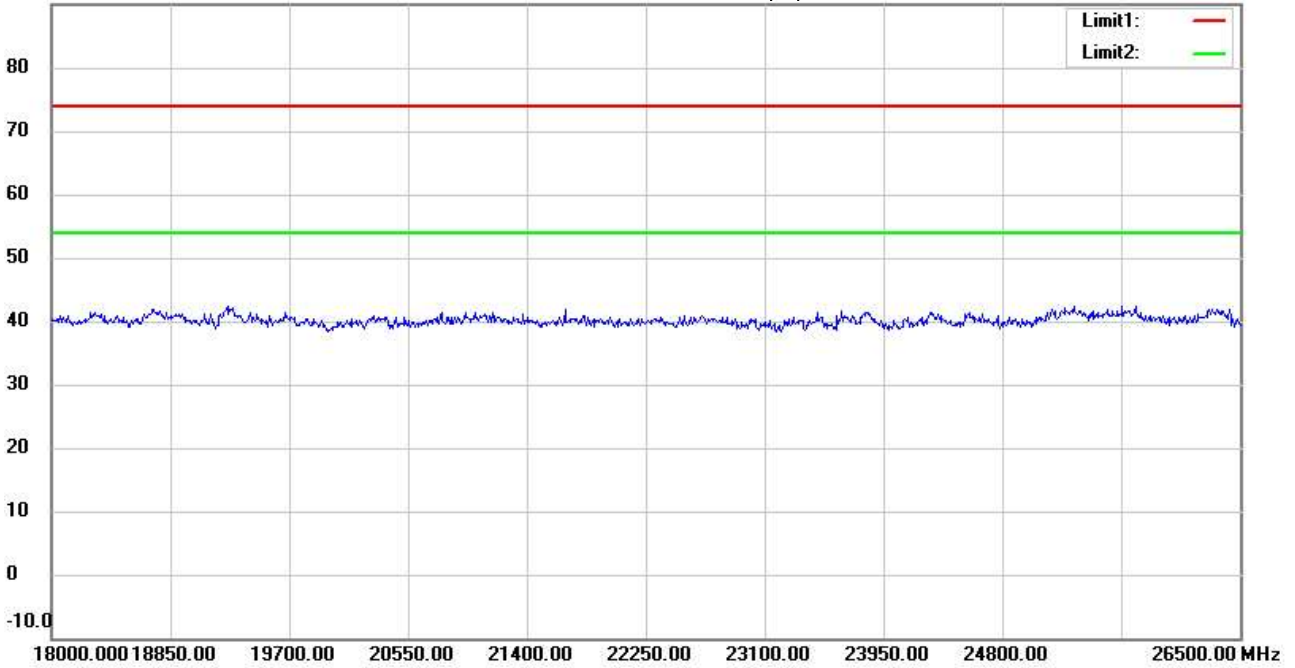
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:56:20

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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





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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#10

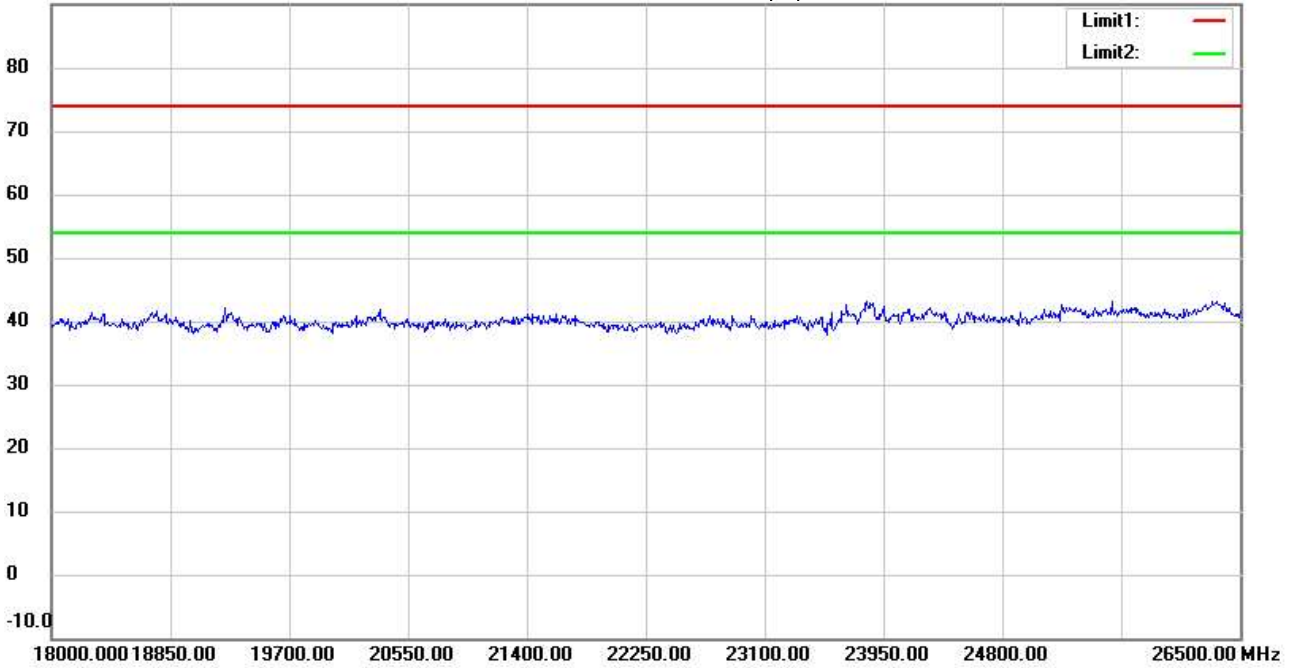
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:58:57

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Vertical*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#1

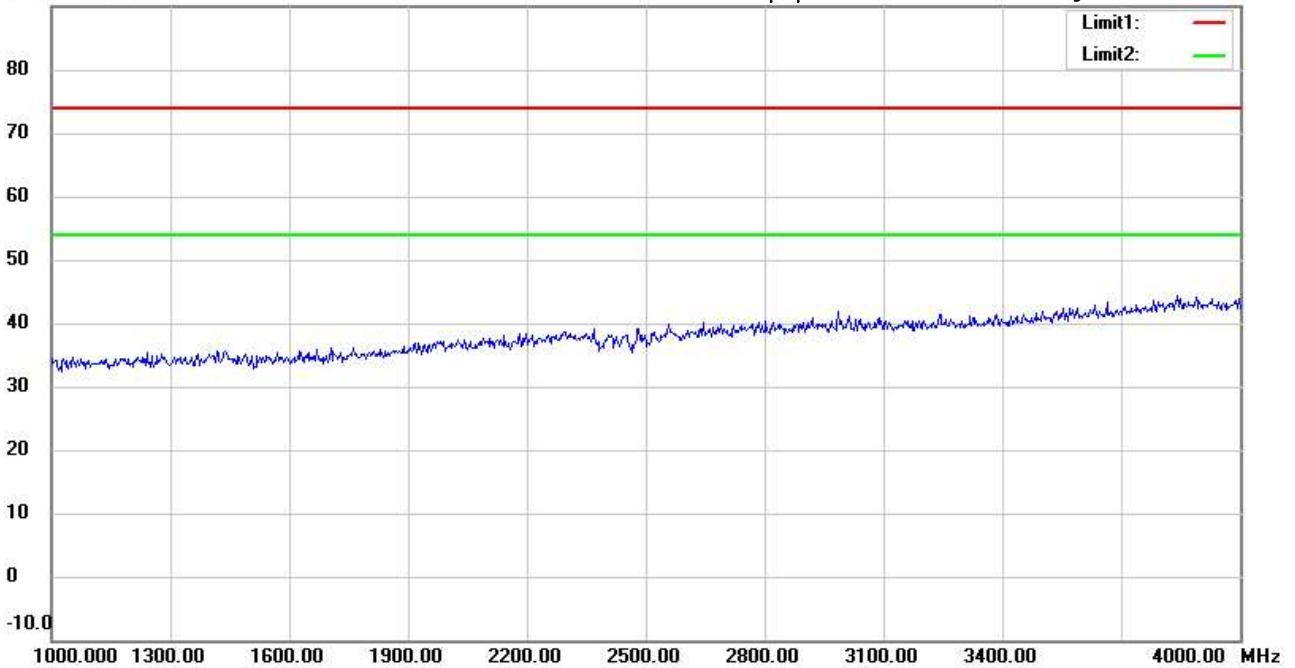
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 05:02:31

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#6

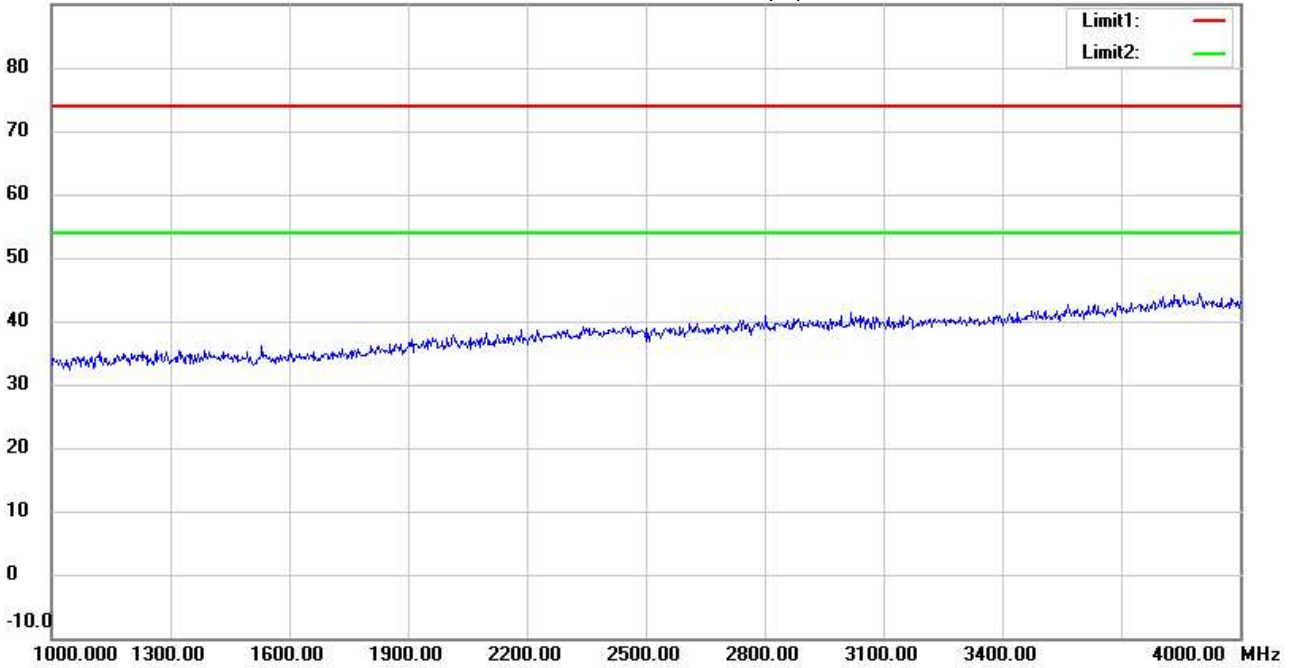
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 05:05:15

Humidity: 58.0 %



Site : 966A Chamber

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

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 5 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



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#2

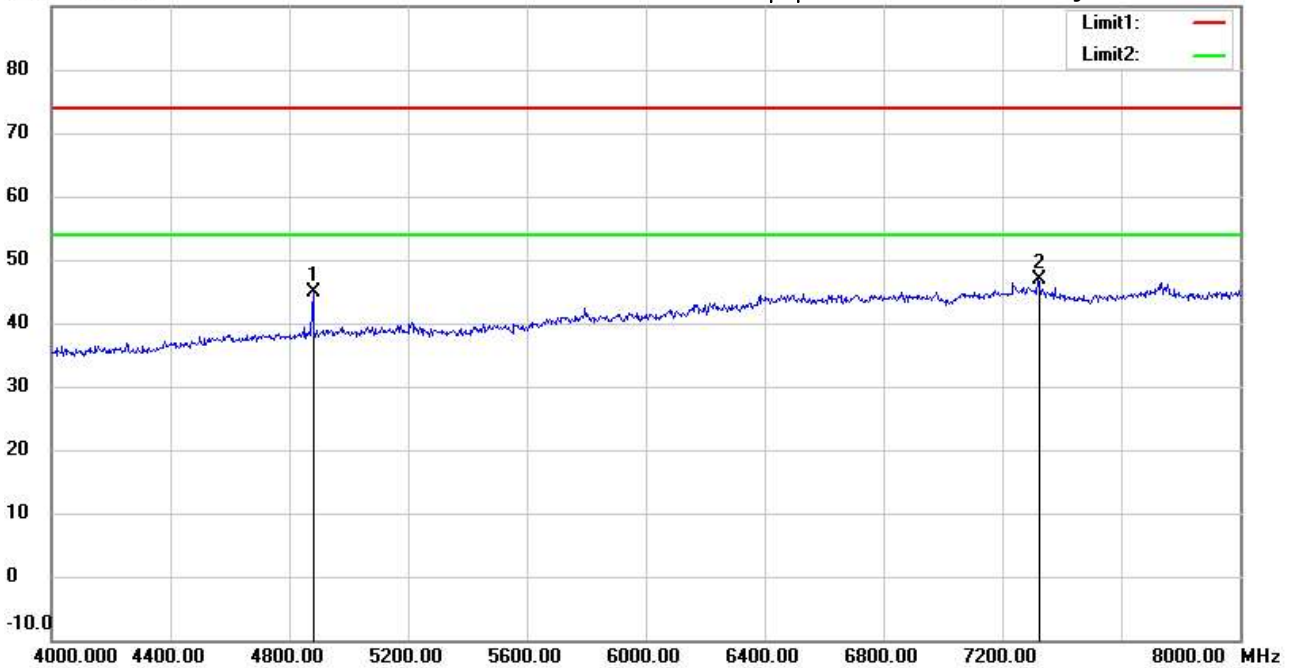
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 05:03:14

Humidity: 58.0 %



Site : 966A Chamber

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

Polarization: *Horizontal*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

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
	4880.000	40.20	peak	4.69	44.89	74.00	150	229	-29.11	
*	7322.000	35.61	peak	11.26	46.87	74.00	150	193	-27.13	