

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

**for**

**Bluetooth Wireless Headphones**

**Model No.: ASL14**

**FCC ID: S9HZJRNFY14**

**Of**

Applicant: **AcousticSheep, LLC**

Address: **2001 Peninsula Drive Erie PA 16506 USA**

Tested and Prepared  
By

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

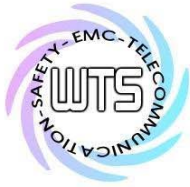
**FCC Registration No.: TW1477, TW0020, TW1072**

**Industry Canada filed test laboratory Reg. No. 20037**



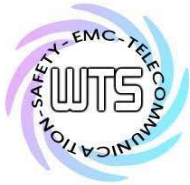
**Report No.: W6M22102-20692-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
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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.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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#### **Specific Conditions:**

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

#### **Tester:**

April 28, 2021

Spencer Yang

Date

WTS-Lab.

Name

Signature

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

April 28, 2021

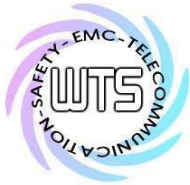
Kevin Wang

Date

WTS

Name

Signature



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

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## **1.2 Testing laboratory**

### **1.2.1 Location**

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.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

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

Accredited testing laboratory

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

## **1.3 Details of approval holder**

Name: AcousticSheep, LLC

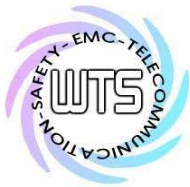
Street: 2001 Peninsula Drive Erie

Town: PA 16506 USA

Country: USA

Telephone: ./.

Fax: ./.



Registration number: W6M22102-20692-C-1

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## **1.4 Application details**

Date of receipt of test item: March 25, 2021

Date of test: from March 26, 2021 to April 15, 2021

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

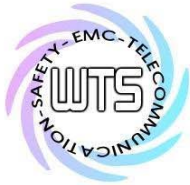
Type of test item: Bluetooth Wireless Headphones  
Model Number: ASL14  
Brand Name: AcousticSheep, SleepPhones, RunPhones  
Multi-listing model number: ASL14G  
Photos: see Appendix

### **Technical data**

Frequency band: 2.402 GHz – 2.480 GHz  
Number of Channels: Bluetooth 2.0 79 channels  
Bluetooth 4.0 40 channels  
Operation modes: Duplex  
Modulation Type: GFSK 、 $\pi/4$  DQPSK 、 8DPSK  
Fixed point-to-point operation: ☐ Yes / ☒ No  
Type of Antenna: PCB Antenna  
Antenna gain: 0.5 dBi (Testing laboratory assumes no responsibility for affecting any validity of the result while the information which is provided by clients.)  
Power supply: Battery 3.7Vd.c., 330mAh, 1.221Wh  
Emission designator: Bluetooth 2.0: 1M21F1D  
Bluetooth 4.0: 1M03G1D  
Host device: none

Classification :

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



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## **Transmitter**

## **Unom**

### **Mode A (Bluetooth 2.0 Normal mode)**

Power ( ch 0 or A): Conducted: 6.25 dBm

Power ( ch 39 or B): Conducted: 6.09 dBm

Power ( ch 78 or C): Conducted: 5.10 dBm

### **Mode B (Bluetooth 2.0 EDR mode)**

Power ( ch 0 or A): Conducted: 9.07 dBm

Power ( ch 39 or B): Conducted: 8.77 dBm

Power ( ch 78 or C): Conducted: 7.86 dBm

### **Mode C (Bluetooth 4.0)**

Power ( ch 0): Conducted: 6.73 dBm

Power ( ch 19): Conducted: 6.41 dBm

Power ( ch 39): Conducted: 5.58 dBm

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

Name: ./.

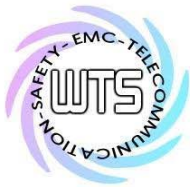
Street: ./.

Town: ./.

Country: ./.

## **1.6 Test standards**

Technical standard : 47 CFR PART 15 SUBPART C § 15.247 (2019-10)



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## **2 Technical test**

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

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



**or**

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



### **2.2 Test environment**

Relative humidity content: 20 ... 75 %

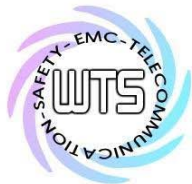
Air pressure: 86 ... 103 kPa

Power supply: Battery 3.7Vd.c., 330mAh, 1.221Wh

Extreme conditions parameters: ./.

| Test item Name                                                                                                                              | Uncertainty                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estimation Result of Uncertainty of Conducted Emission                                                                                      | Expanded Uncertainty :<br>AMN : 1.05 dB<br>Voltage probe : 1.05 dB                                                     |
| Estimation Result of Uncertainty of Radiated Emission(3M)                                                                                   | Expanded Uncertainty :<br>0.009-30 MHz : 2.13 dB<br>30-1000 MHz : 3.53 dB<br>1-18 GHz : 4.19 dB<br>18-40 GHz : 4.09 dB |
| Estimation Result of Uncertainty of Bandwidth Measurement<br>20 dB Bandwidth, Occupied bandwidth, Channel bandwidth,<br>Necessary Bandwidth | Expanded Uncertainty : 0.41 kHz                                                                                        |
| Estimation Result of Uncertainty of Conducted Output Power<br>Measurement Output power                                                      | Expanded Uncertainty : 1.61 dB                                                                                         |
| Estimation Result of Uncertainty of Power Density Measurement<br>Power density                                                              | Expanded Uncertainty : 1.68 dB                                                                                         |
| Estimation Result of Uncertainty of Band Edge Measurement                                                                                   | Expanded Uncertainty : 1.33 dBc                                                                                        |
| Estimation Result of Uncertainty of Frequency Separation<br>Measurement Hopping channel separation                                          | Expanded Uncertainty : 554.14 Hz                                                                                       |
| Estimation Result of Uncertainty of Duty Cycle Measurement<br>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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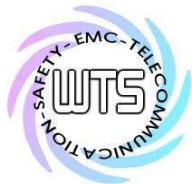
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## 2.3 Test Equipment List

| No.          | Test equipment                                     | Type            | Serial No.  | Manufacturer | Cal. Date     | Next Cal. Date |
|--------------|----------------------------------------------------|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER                                  | ESHS10          | 842121/013  | R&S          | 2020/6/11     | 2021/6/10      |
| ETSTW-CE 003 | AC POWER SOURCE                                    | APS-9102        | D161137     | GW           | Function Test |                |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG<br>TWO-LINE V-NETWORK | ESH3-Z5         | 840731/011  | R&S          | 2020/11/6     | 2021/11/5      |
| ETSTW-CE 006 | IMPULSBEGRENZER<br>PULSE LIMITER                   | ESH3-Z2         | 100226      | R&S          | 2020/9/22     | 2021/9/21      |
| ETSTW-CE 008 | HF-EICHLITUNG RF<br>STEP ATTENUATOR<br>139dB DPSP  | 334.6010.02     | 844581/024  | R&S          | Function Test |                |
| ETSTW-CE 009 | TEMP.&HUMIDITY<br>CHAMBER                          | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE  | 2020/7/22     | 2021/7/21      |
| ETSTW-CE 016 | TWO-LINE V-NETWORK                                 | ENV216          | 100050      | R&S          | 2020/10/26    | 2021/10/25     |
| ETSTW-CE 028 | MXE EMI Receiver                                   | N9038A          | MY53220110  | Agilent      | 2020/7/29     | 2021/7/28      |
| ETSTW-RE 003 | EMI TEST RECEIVER                                  | ESI 26          | 831438/001  | R&S          | 2020/6/12     | 2021/6/11      |
| ETSTW-RE 004 | EMI TEST RECEIVER                                  | ESI 40          | 832427/004  | R&S          | 2020/9/14     | 2021/9/13      |
| ETSTW-RE 012 | TUNABLE BANDREJECT<br>FILTER                       | D.C 0309        | 146         | K&L          | Function Test |                |
| ETSTW-RE 013 | TUNABLE BANDREJECT<br>FILTER                       | D.C 0336        | 397         | K&L          | Function Test |                |
| ETSTW-RE 018 | MICROWAVE HORN<br>ANTENNA                          | AT4560          | 27212       | AR           | 2020/7/30     | 2021/7/29      |
| ETSTW-RE 019 | MICROWAVE HORN<br>ANTENNA                          | 22240-25        | 121074      | FM           | 2020/5/15     | 2021/5/14      |
| ETSTW-RE 027 | Passive Loop Antenna                               | 6512            | 00034563    | ETS-Lindgren | 2020/7/8      | 2021/7/7       |
| ETSTW-RE 030 | Double-Ridged Guide Horn<br>Antenna                | 3117            | 00035224    | ETS-Lindgren | 2021/4/19     | 2022/4/18      |
| ETSTW-RE 042 | Biconical Antenna                                  | HK116           | 100172      | R&S          | 2021/3/18     | 2022/3/17      |
| ETSTW-RE 043 | Log-Periodic Dipole<br>Antenna                     | HL223           | 100166      | R&S          | 2020/5/8      | 2021/5/7       |
| ETSTW-RE 044 | Log-Periodic Antenna                               | HL050           | 100094      | R&S          | 2020/8/3      | 2021/8/2       |
| ETSTW-RE 045 | ESA-E SERIES<br>SPECTRUM ANALYZER                  | E4404B          | MY45111242  | Agilent      | Pre-test Use  |                |
| ETSTW-RE 050 | Attenuator 10dB                                    | 50HF-010-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 051 | Attenuator 6dB                                     | 50HF-006-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 053 | Attenuator 3dB                                     | 50HF-003-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 055 | SPECTRUM ANALYZER                                  | FSU 26          | 200074      | R&S          | 2021/3/16     | 2022/3/15      |
| ETSTW-RE 060 | Attenuator 30dB                                    | 5015-30         | F651012z-01 | ATM          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 062 | Amplifier Module                                   | CHC 2           | None        | KMIC         | 2020/5/15     | 2021/5/14      |
| ETSTW-RE 064 | Bluetooth Test Set                                 | MT8852B-042     | 6K00005709  | Anritsu      | Function Test |                |
| ETSTW-RE 069 | Double-Ridged Guide Horn<br>Antenna                | 3117            | 00069377    | ETS-Lindgren | Function Test |                |
| ETSTW-RE 072 | CELL SITE TEST SET                                 | 8921A           | 3339A00375  | HP           | 2020/10/15    | 2021/10/14     |
| ETSTW-RE 088 | SOLID STATE<br>AMPLIFIER                           | KMA180265A01    | 99057       | KMIC         | 2020/9/17     | 2021/9/16      |
| ETSTW-RE 091 | Match Pad                                          | MDCS1500        | None        | WOKEN        | 2020/5/22     | 2021/5/21      |
| ETSTW-RE 099 | DC Block                                           | 50DB-007-1      | None        | JFW          | 2021/2/19     | 2022/2/18      |
| ETSTW-RE 112 | AC POWER SOURCE                                    | TFC-1005        | T-0A023536  | T-Power      | Function test |                |



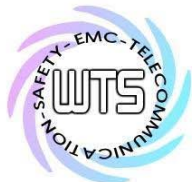


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|                 |                                      |                                        |                 |                    |                  |            |
|-----------------|--------------------------------------|----------------------------------------|-----------------|--------------------|------------------|------------|
| ETSTW-RE 115    | 2.4GHz Notch Filter                  | N0124411                               | 473874          | MICROWAVE CIRCUITS | 2021/1/6         | 2022/1/5   |
| ETSTW-RE 120    | RF Player                            | MP9200                                 | MP9210-111022   | ADIVIC             | 2020/12/25       | 2021/12/24 |
| ETSTW-RE 122    | SIGNAL GENERATOR                     | SMF100A                                | 102149          | R&S                | 2020/6/11        | 2021/6/10  |
| ETSTW-RE 125    | 5GHz Notch filter                    | 5NSL11-5200/E221.3-O/O                 | 1               | K&L Microwave      | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 126    | 5GHz Notch filter                    | 5NSL12-5800/E221.3-O/O                 | 1               | K&L Microwave      | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 127    | RF Switch Box                        | RFS-01                                 | None            | WTS                | 2021/2/19        | 2022/2/18  |
| ETSTW-RE 128    | 5.3GHz Notch filter                  | N0153001                               | SN487233        | Microwave Circuits | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 129    | 5.5GHz Notch filter                  | N0555984                               | SN487234        | Microwave Circuits | 2020/8/7         | 2021/8/6   |
| ETSTW-RE 130    | Handheld RF Spectrum Analyzer        | N9340A                                 | CN0147000204    | Agilent            | Pre-test Use     |            |
| ETSTW-RE 142    | Amplifier                            | 8447D                                  | 2805A03378      | Agilent            | 2020/5/15        | 2021/5/14  |
| ETSTW-RE 146    | Preamplifier                         | JPA-10M1G                              | 15090004        | JPT                | 2020/6/5         | 2021/6/4   |
| ETSTW-RE 147    | Bi-log Hybrid Antenna                | MCTD 2786B                             | BLB16M04005     | ETC                | 2021/4/7         | 2022/4/6   |
| ETSTW-RE 148    | Bi-log Hybrid Antenna                | MCTD 2786B                             | BLB16M04006     | ETC                | 2020/7/9         | 2021/7/8   |
| ETSTW-RE 153    | Signal Analyzer                      | FSV40                                  | 101929          | R&S                | 2020/10/1        | 2021/9/30  |
| ETSTW-RF 002    | Electromagnetic field probe          | LF-30                                  | K-0007          | STT                | 2020/6/9         | 2021/6/8   |
| ETSTW-EMI 011   | USB Compact Modulator                | SFC-U                                  | 101689          | R&S                | 2020/5/21        | 2021/5/20  |
| ETSTW-GSM 002   | Universal Radio Communication Tester | CMU 200                                | 109439          | R&S                | 2021/3/16        | 2022/3/15  |
| ETSTW-GSM 003   | Radio Communication Analyzer         | MT8820C                                | 6201342073      | Anritsu            | 2021/4/19        | 2022/4/18  |
| ETSTW-GSM 004   | Wideband Radio Communication Tester  | CMW500                                 | 128092          | R&S                | 2020/11/10       | 2021/11/9  |
| ETSTW-GSM 019   | Band Reject Filter                   | WRCTF824/849-822/851-40/12+9SS         | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 020   | Band Reject Filter                   | WRCD1747/1748-1743/1752-32/5SS         | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 021   | Band Reject Filter                   | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 022   | Band Reject Filter                   | WRCT901.9/903.1-904.25-50/8SS          | 1               | WI                 | 2021/1/6         | 2022/1/5   |
| ETSTW-GSM 023   | Power Divider                        | 4901.19.A                              | None            | SUHNER             | 2020/9/8         | 2021/9/7   |
| ETSTW-GSM 024   | Radio Communication Analyzer         | MT8821C                                | None            | Anritsu            | 2021/4/1         | 2022/3/31  |
| ETSTW-GSM 025   | Band Reject Filter                   | BRM19835                               | 001             | Micro-Tronics      | 2020/8/7         | 2021/8/6   |
| ETSTW-Cable 011 | SMA to N type Cable                  | RGU-400                                | None            | THERMAX            | Pre-test Use NCR |            |
| ETSTW-Cable 016 | BNC Cable                            | Switch Box                             | B Cable 1       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 017 | BNC Cable                            | X Cable                                | B Cable 2       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 018 | BNC Cable                            | Y Cable                                | B Cable 3       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 019 | BNC Cable                            | Z Cable                                | B Cable 4       | Schwarz beck       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 020 | N TYPE Cable                         | OATS Cable 1                           | N30N30-L335-15M | JYE BAO CO.,LTD.   | 2020/7/1         | 2021/6/30  |
| ETSTW-Cable 027 | Microwave Cable                      | SUCOFLEX 104                           | 279083          | HUBER+SUHNER       | 2020/5/8         | 2021/5/7   |
| ETSTW-Cable 028 | Microwave Cable                      | FA147A0015M2020                        | 30064-2         | UTIFLEX            | 2020/9/17        | 2021/9/16  |
| ETSTW-Cable 029 | Microwave Cable                      | FA147A0015M2020                        | 30064-3         | UTIFLEX            | 2020/9/17        | 2021/9/16  |
| ETSTW-Cable 030 | Microwave Cable                      | SUCOFLEX 104 (S Cable 9)               | 279067          | HUBER+SUHNER       | 2021/2/19        | 2022/2/18  |
| ETSTW-Cable 043 | Microwave Cable                      | SUCOFLEX 104                           | 317576          | HUBER+SUHNER       | 2020/5/15        | 2021/5/14  |

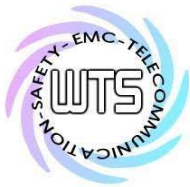


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|                 |                          |                       |          |              |                  |           |
|-----------------|--------------------------|-----------------------|----------|--------------|------------------|-----------|
| ETSTW-Cable 047 | Microwave Cable          | SUCOFLEX 104          | 325518   | HUBER+SUHNER | 2020/7/3         | 2021/7/2  |
| ETSTW-Cable 058 | Microwave Cable          | SUCOFLEX 104          | none     | HUBER+SUHNER | 2020/6/5         | 2021/6/4  |
| ETSTW-Cable 064 | Microwave Cable          | SUCOFLEX 104          | MY28891  | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| ETSTW-Cable 071 | N TYPE CABLE             | EMCCFD400-NM-NM-25000 | 170239   | EMCI         | 2020/6/5         | 2021/6/4  |
| ETSTW-Cable 072 | SMA type cable (8m)      | SUCOFLEX 104          | 805800/4 | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| ETSTW-Cable 074 | SMA type cable (2m)      | SUCOFLEX 104          | 802563/4 | HUBER+SUHNER | 2020/5/15        | 2021/5/14 |
| WTSTW-SW 002    | EMI TEST SOFTWARE        | EZ EMC                | None     | Farad        | Version ETS-03A1 |           |
| WTSTW-SW 006    | EMI TEST SOFTWARE        | e3                    | None     | AUDIX        | Version 9.161014 |           |
| WTSTW-SW 008    | Signal studio            | Agilent               | None     | AUDIX        | Version 2.0.0.1  |           |
| ETSTW-TH 002    | Thermohygrometer         | 608-H1                | 45204317 | Testo        | 2020/9/23        | 2021/9/22 |
| ETSTW-TH 003    | Wireless weather station | GAIA                  | N/A      | TFA          | 2020/12/3        | 2021/12/2 |



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FCC ID: S9HZJRNFY14

## **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:

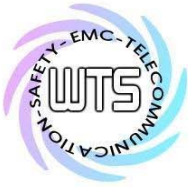
Freq (MHz)      METER READING + ACF + CABLE LOSS (to the receiver) = FS  
33                      20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m

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.



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

The formula is as follows:

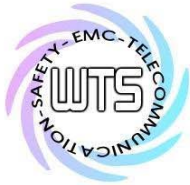
Average = Peak + Duty Factor

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

T = 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.



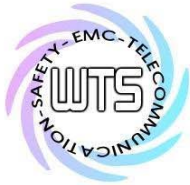
# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

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

| TEST CASE                                            | Para. Number     | Required                            | Test passed                         | Test failed              |
|------------------------------------------------------|------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power                                    | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Equivalent isotropically radiated Power              | 15.247(b)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating  | 15.247(d)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions conducted – Transmitter operating | 15.247           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Carrier Frequency Separation                         | 15.247(a) (1)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Number of Hopping Frequencies                        | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Time of Occupancy (Dwell Time)                       | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20 dB Bandwidth                                      | 15.247(a) (1)(i) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Minimum 6 dB Bandwidth                               | 15.247(a)(2)     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Band-edge Compliance of RF Emission                  | 15.247(d)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Peak Power Spectral Density                          | 15.247(e)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission from Digital Part                  | 15.109           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> |
| Power Line Conducted Emission                        | 15.207(a)        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |



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FCC ID: S9HZJRNFY14

## 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: March 31, 2021

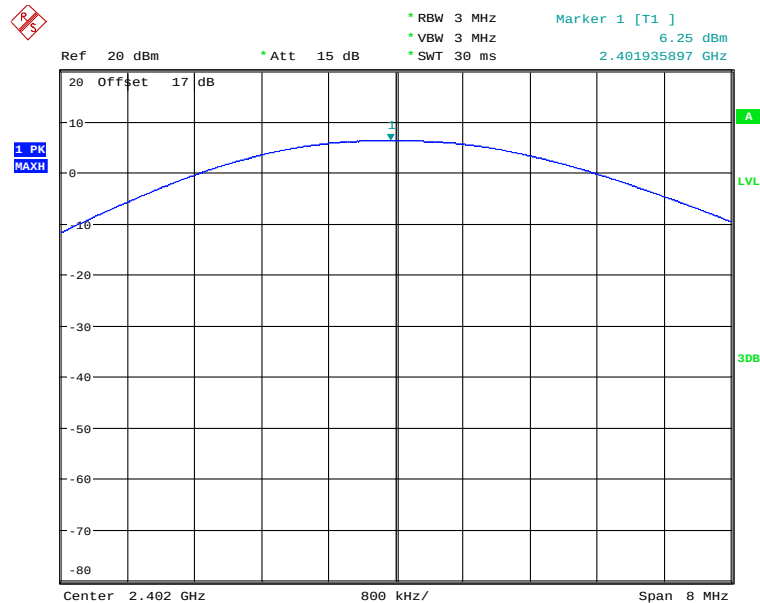
Temperature: 23.9 °C

Humidity: 55.5 %

Tester:

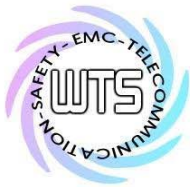
Bluetooth 2.0

Normal mode

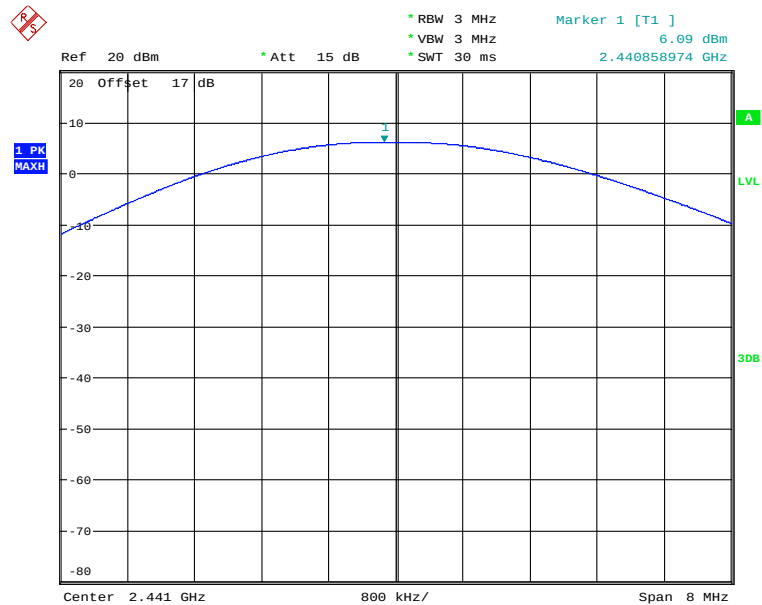


MAX OUTPUT POWER CH0

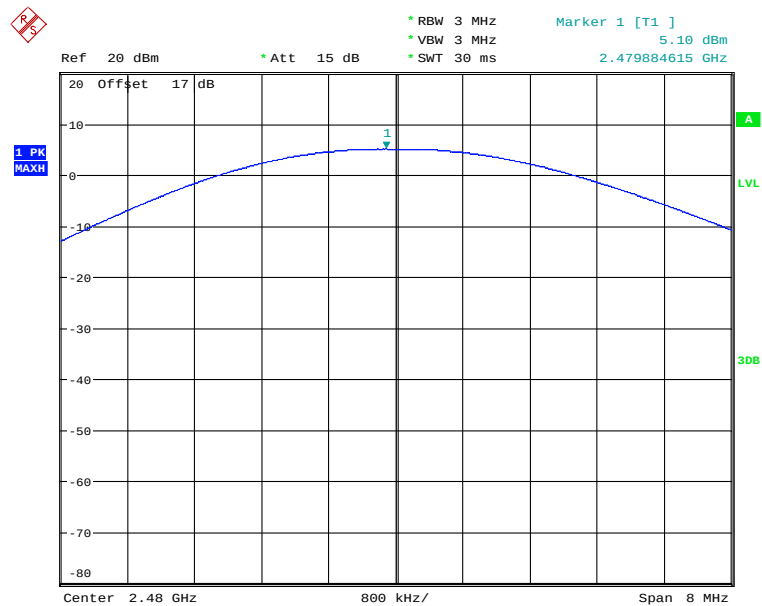
Date: 31.MAR.2021 10:19:58



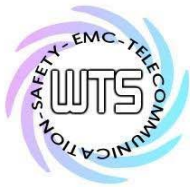
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



MAX OUTPUT POWER CH39  
Date: 31.MAR.2021 10:28:06



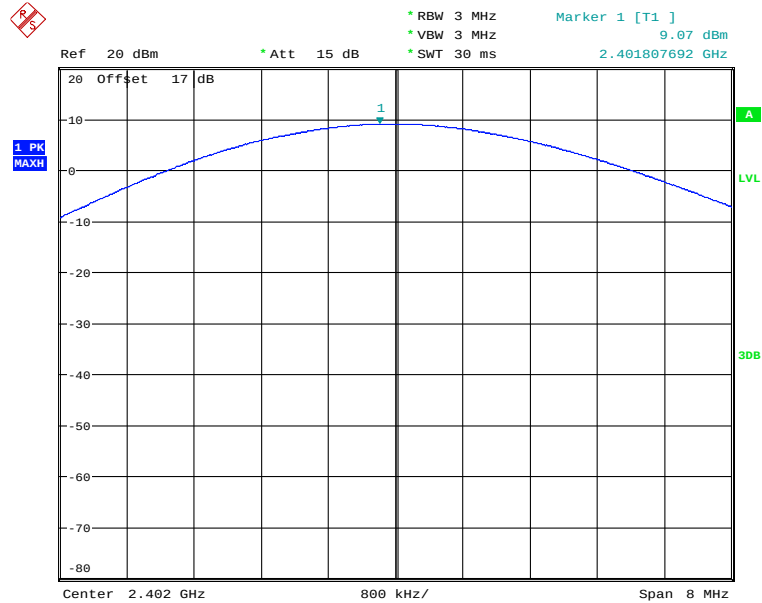
MAX OUTPUT POWER CH78  
Date: 31.MAR.2021 10:29:18



Registration number: W6M22102-20692-C-1

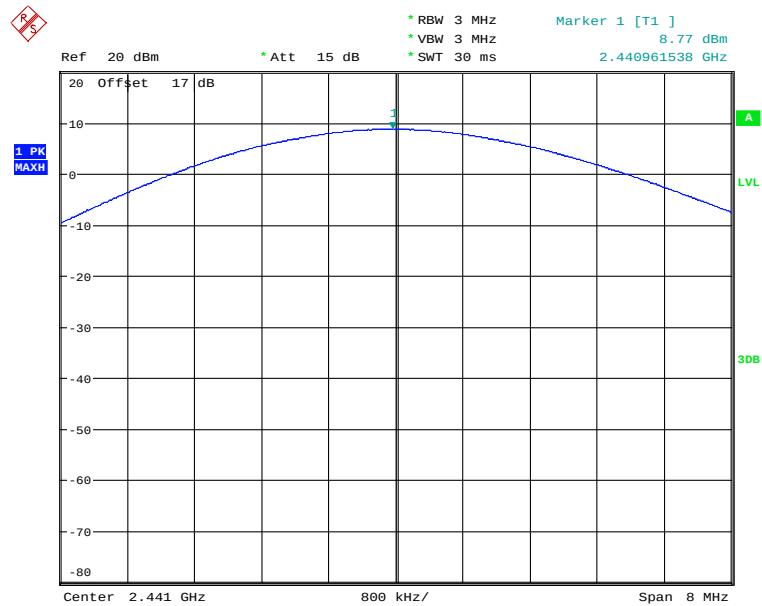
FCC ID: S9HZJRNFY14

EDR mode



MAX OUTPUT POWER CH0 EDR MODE

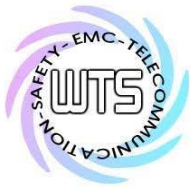
Date: 31.MAR.2021 10:35:34



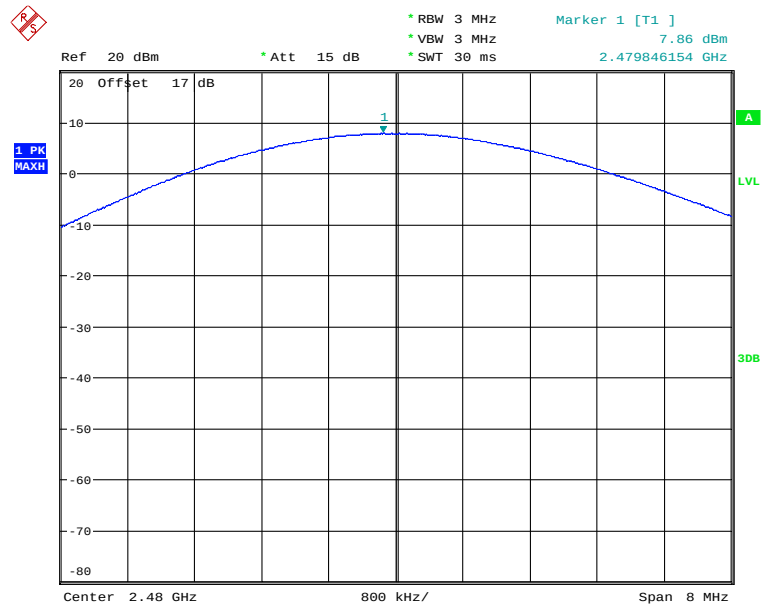
MAX OUTPUT POWER CH39 EDR MODE

Date: 31.MAR.2021 10:36:30



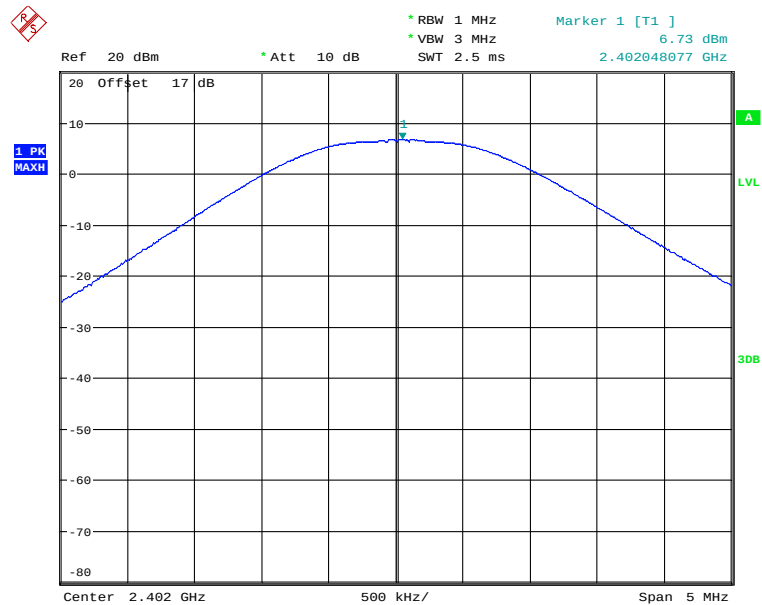


Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14

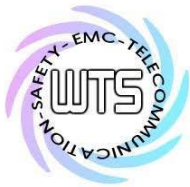


MAX OUTPUT POWER CH78 EDR MODE  
Date: 31.MAR.2021 10:37:02

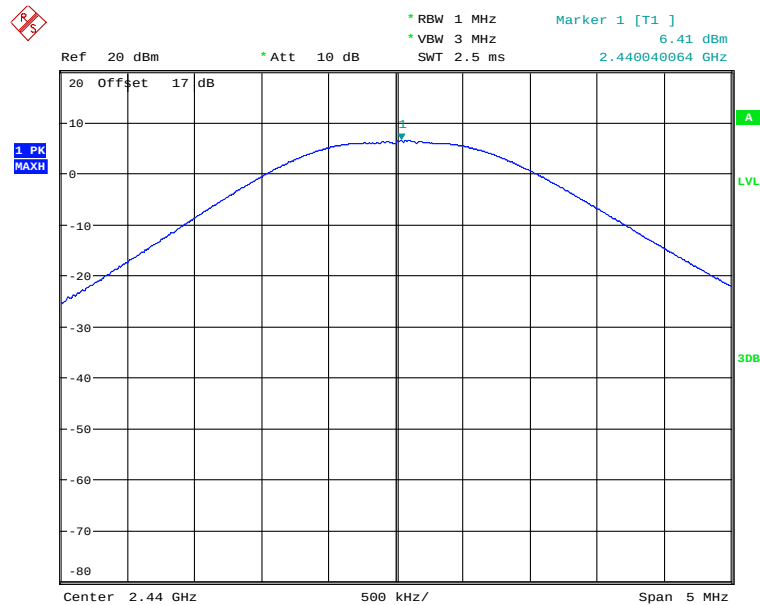
## Bluetooth 4.0



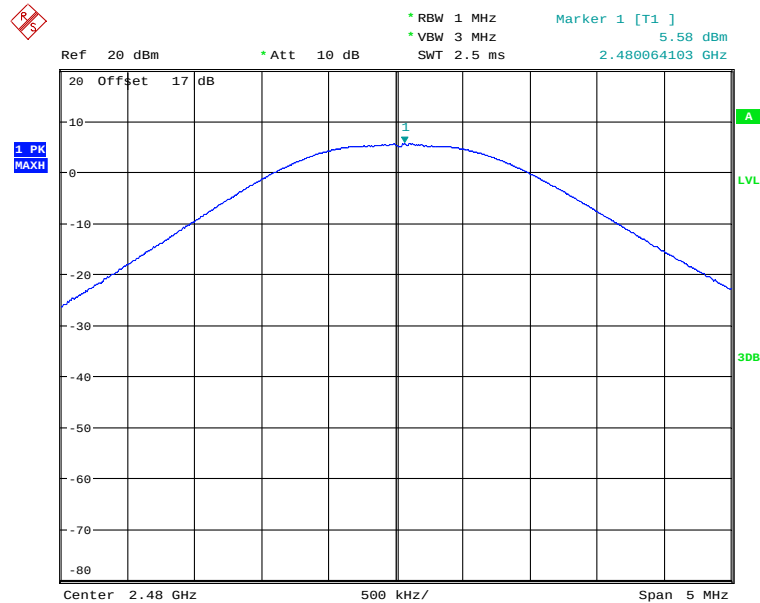
MAX OUTPUT POWER BT4.0 CH00  
Date: 31.MAR.2021 10:56:48



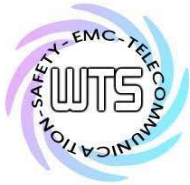
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



MAX OUTPUT POWER BT4.0 CH19  
Date: 31.MAR.2021 11:10:50



MAX OUTPUT POWER BT4.0 CH39  
Date: 31.MAR.2021 11:12:28



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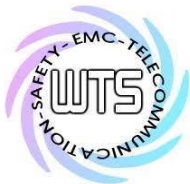
FCC ID: S9HZJRNFY14

Limits:

| Frequency<br>MHz | Power<br>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)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.2 Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)

BT2.0

EIRP = max. conducted output power + antenna gain

EIRP = 9.07 dBm + (0.5 dBi [antenna gain claimed by manufacturer]) = 9.57 dBm = 9.0573 mW

BT4.0

EIRP = max. conducted output power + antenna gain

EIRP = 6.73 dBm + (0.5 dBi [antenna gain claimed by manufacturer]) = 7.23 dBm = 5.2845 mW

## 3.3 Exemption Limits for Routine Evaluation according to FCC KDB Publication

### RESULT:

Test standard : FCC KDB Publication  
447498 D01 General RF Exposure Guidance v06

### 3.3.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation-Exemption limits for routine evaluation based on frequency and separation distance

| MHz  | 5     | 10    | 15    | 20    | 25    | mm                                      |
|------|-------|-------|-------|-------|-------|-----------------------------------------|
| 2402 | 10.09 | 19.26 | 29.35 | 38.25 | 48.52 | SAR Test<br>Exclusion<br>Threshold (mW) |

| MHz  | 30    | 35    | 40    | 45    | 50    | mm                                      |
|------|-------|-------|-------|-------|-------|-----------------------------------------|
| 2402 | 57.70 | 67.79 | 77.87 | 87.05 | 97.13 | SAR Test<br>Exclusion<br>Threshold (mW) |

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 5 mm.

Operating frequency band : 2402-2480 MHz

BT2.0

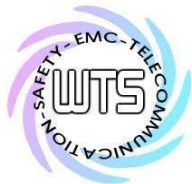
Max. output power level at 5 mm separation distance at 2402 MHz  
according to table is: 10.09 mW

The product is exempt from SAR Evaluation/Testing because the output power of 9.0573 mW is below the exemption limit of 10.09 mW.

BT4.0

Max. output power level at 5 mm separation distance at 2402 MHz  
according to table is: 10.09 mW

The product is exempt from SAR Evaluation/Testing because the output power of 5.2845 mW is below the exemption limit of 10.09 mW



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

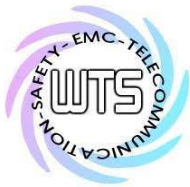
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

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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## **3.5 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:

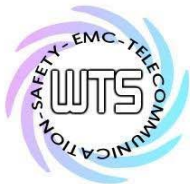
“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

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

Test equipment used: ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064

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



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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: ASL14 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) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |
| --              | --             | --       | --          | --              | --             | --          | --                  | --             |

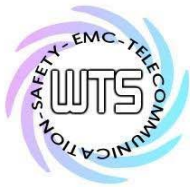
Polarization: Vertical

| 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.

Test equipment used: ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018, ETSTW-RE 064



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FCC ID: S9HZJRNFY14

## 3.6 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: March 31, 2021

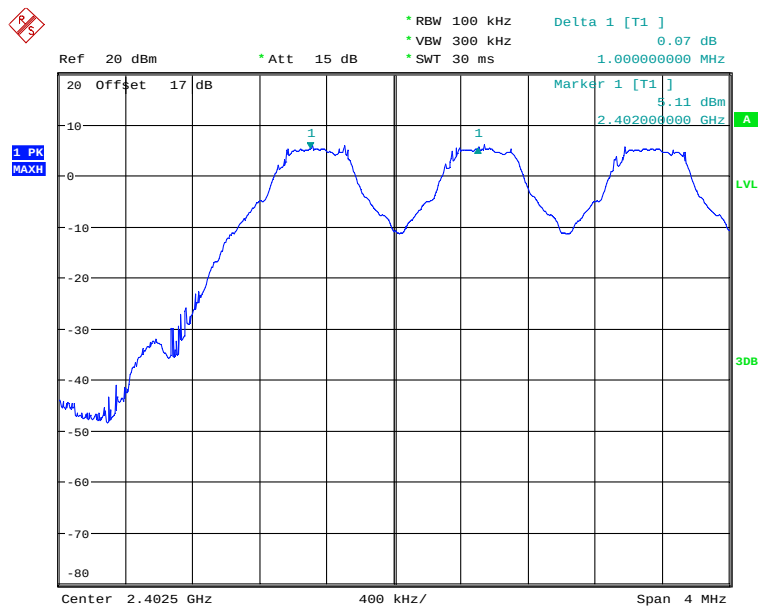
Temperature: 23.9 °C

Humidity: 55.5 %

Tester: Spencer

Bluetooth 2.0

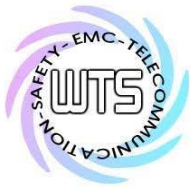
Normal mode



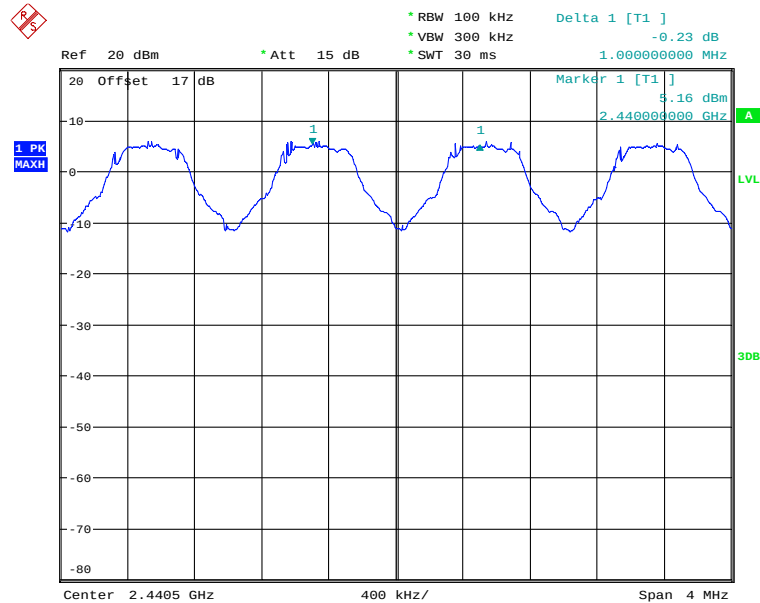
FREQUENCY SEPARATION CH0

Date: 31.MAR.2021 10:33:18

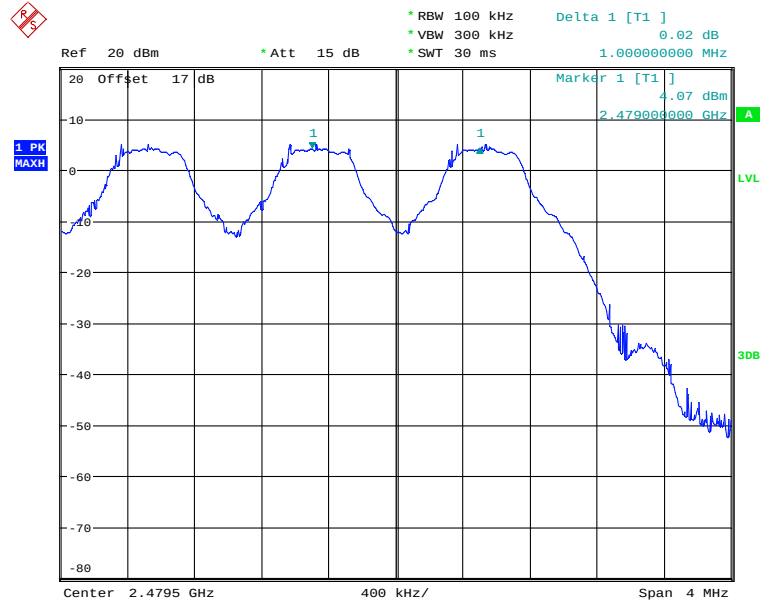




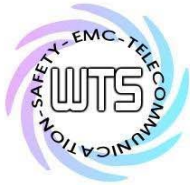
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



FREQUENCY SEPARATION CH39  
Date: 31.MAR.2021 10:34:02



FREQUENCY SEPARATION CH78  
Date: 31.MAR.2021 10:34:50



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

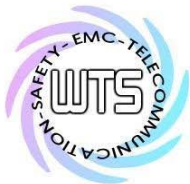
Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## **Limits:**

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.7 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.

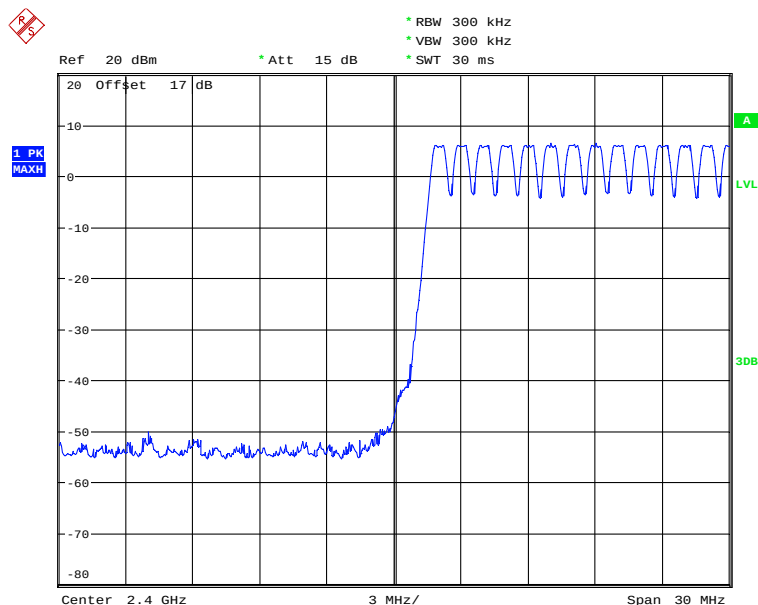
Test date: March 31, 2021

Temperature: 23.9 °C

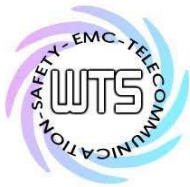
Humidity: 55.5 %

Tester: Spencer

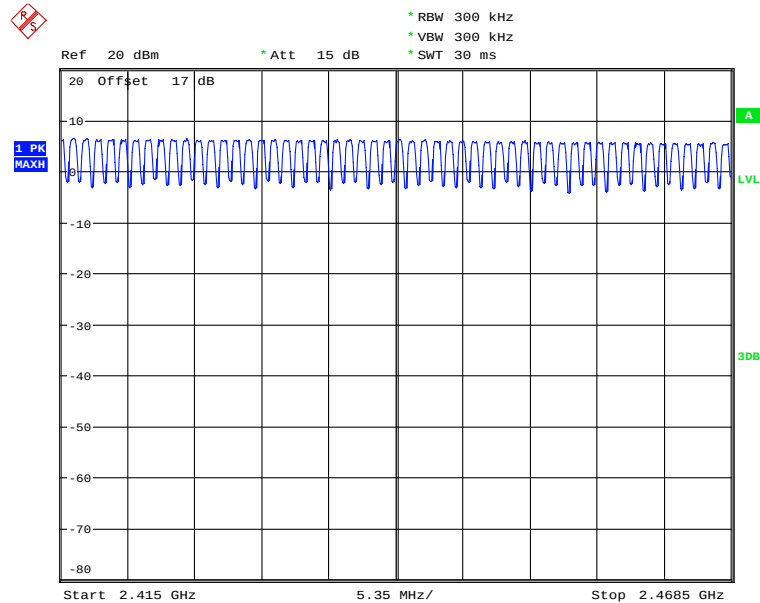
Bluetooth 2.0



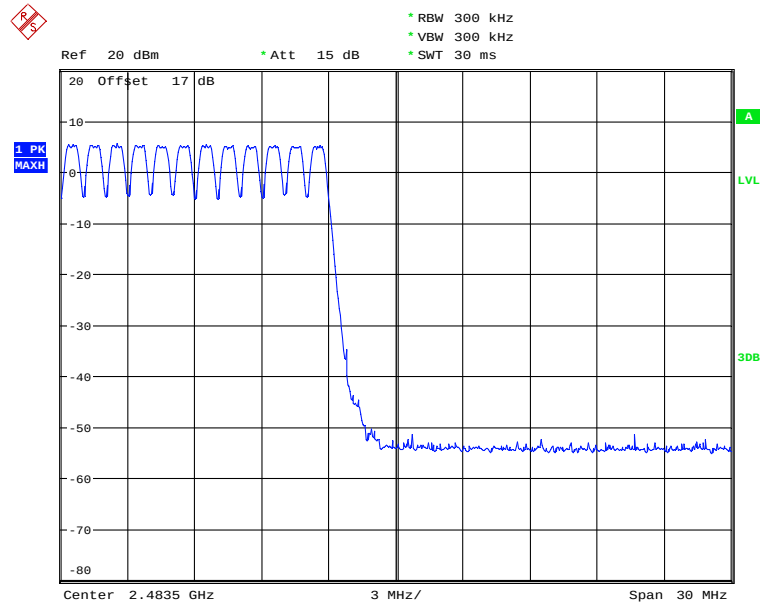
NUMBER OF HOPPING CH0-13  
Date: 31.MAR.2021 10:30:38



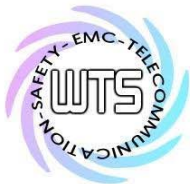
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



NUMBER OF HOPPING CH14-66  
Date: 31.MAR.2021 10:32:26



NUMBER OF HOPPING CH67-78  
Date: 31.MAR.2021 10:31:18



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## **Limits:**

| Frequency Range<br>MHz | Limit                    |                    |
|------------------------|--------------------------|--------------------|
|                        | 20dB Bandwidth           | Number of Channels |
| 902-928 MHz            | Bandwidth < 250 kHz      | $\geq 50$          |
|                        | Bandwidth $\geq 250$ kHz | $\geq 25$          |
| 2400-2483.5            | not defined              | 15                 |
| 5725-5850.0 MHz        | 1 MHz                    | 75                 |

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

### **3.7.1 Pseudorandom Frequency Hopping Sequence**

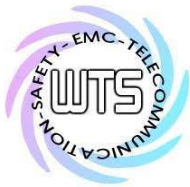
The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

### **3.7.2 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.

### **3.7.3 System Receiver Hopping Capability**

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



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.8 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.

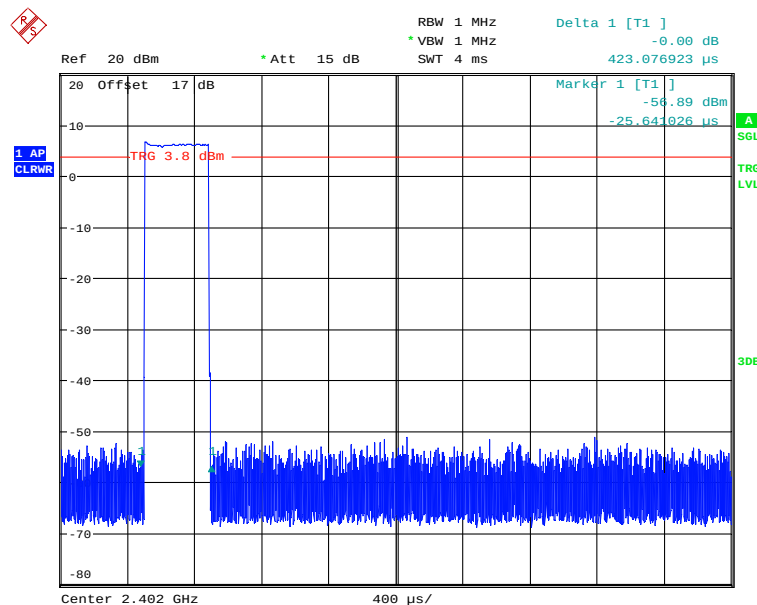
Test date: March 31, 2021

Temperature: 23.9 °C

Humidity: 55.5 %

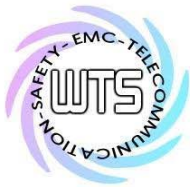
Tester: Spencer

Bluetooth 2.0

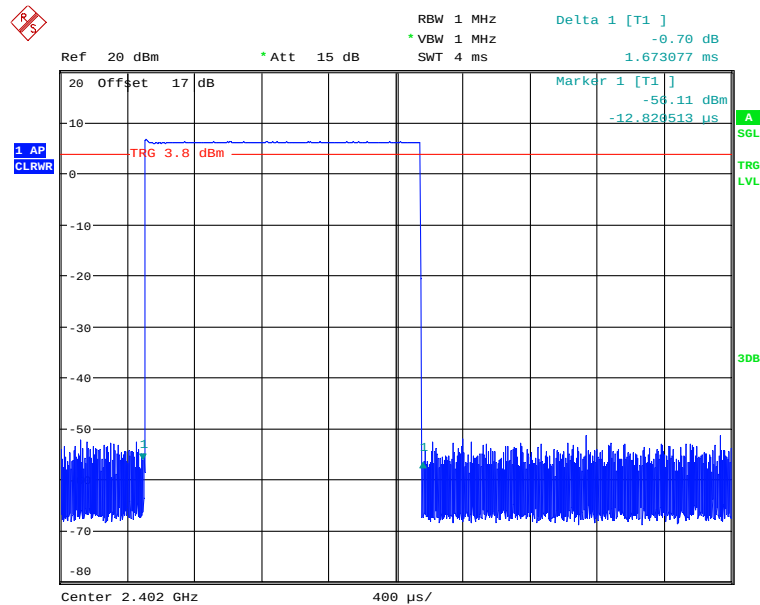


DWELL TIME CH0 DH1 ( 0.423ms \* 320events = 135.36ms )

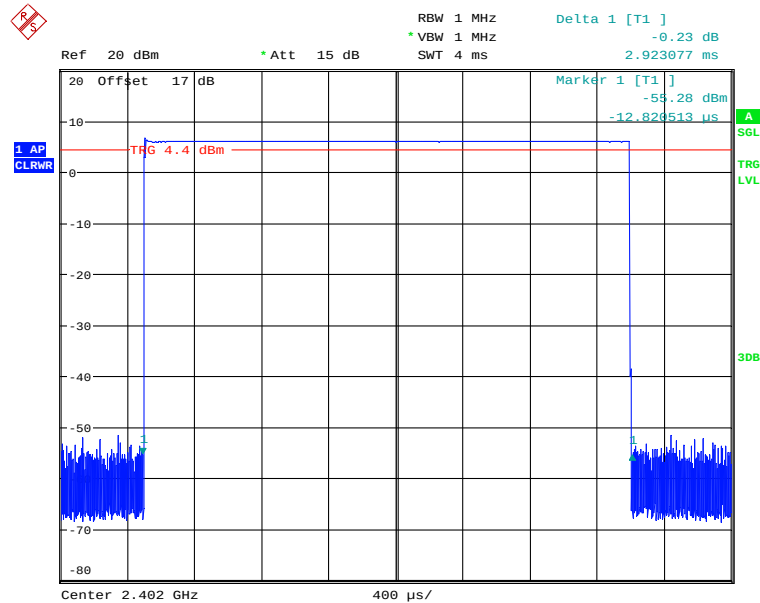
Date: 31.MAR.2021 10:55:31



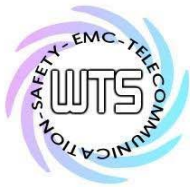
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



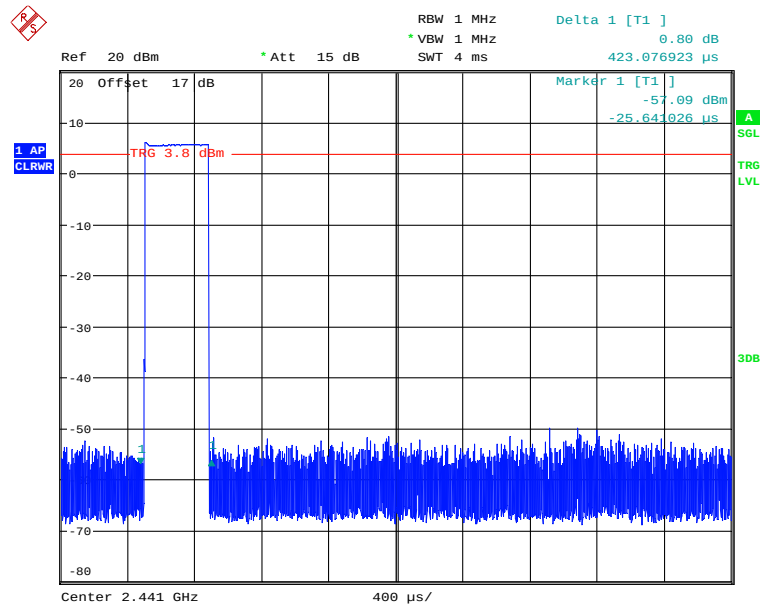
DWELL TIME CH0 DH3 ( 1.673ms \* 160events = 267.68ms )  
Date: 31.MAR.2021 10:54:16



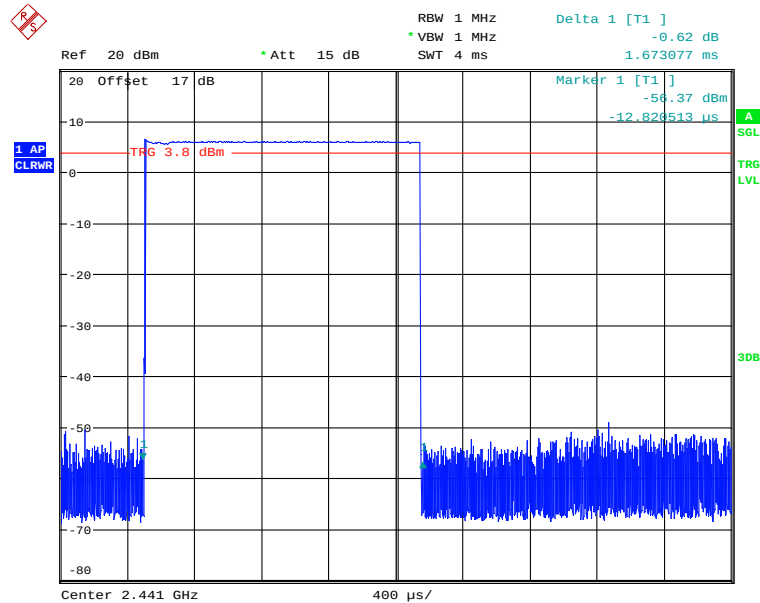
DWELL TIME CH0 DH5 ( 2.923ms \* 106events = 309.838ms )  
Date: 31.MAR.2021 10:51:45



Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14

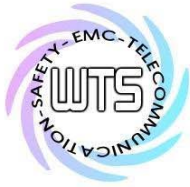


DWELL TIME CH39 DH1 ( 0.423ms \* 320events = 135.36ms )  
Date: 31.MAR.2021 10:55:58

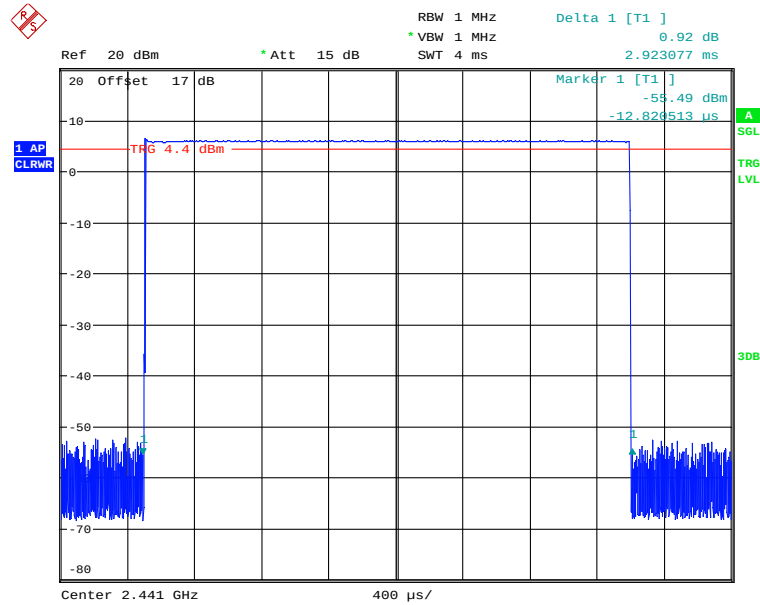


DWELL TIME CH39 DH3 ( 1.673ms \* 160events = 267.68ms )  
Date: 31.MAR.2021 10:53:58

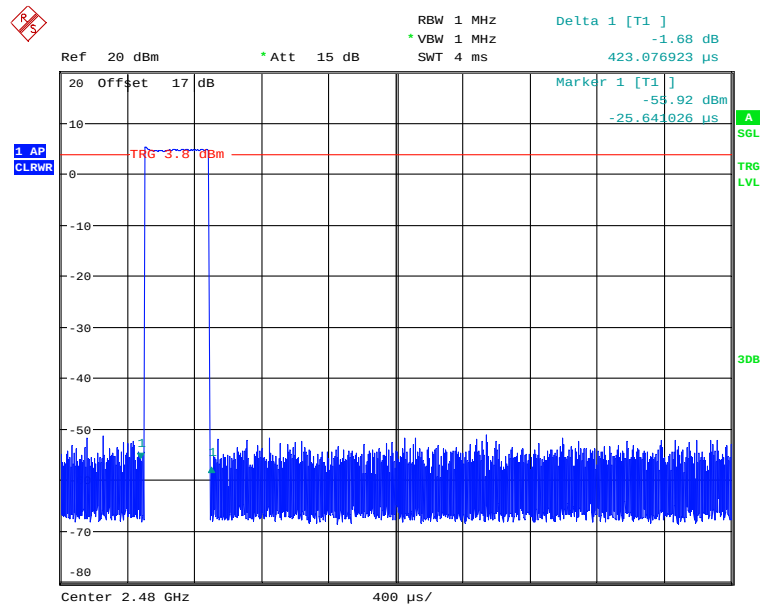




Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



DWELL TIME CH39 DH5 ( 2.923ms \* 106events = 309.838ms )  
Date: 31.MAR.2021 10:52:14



DWELL TIME CH78 DH1 ( 0.423ms \* 320events = 135.36ms )  
Date: 31.MAR.2021 10:56:19



RBW 1 MHz  
VBW 1 MHz  
SWT 4 ms

Delta 1 [T1]  
1.32 dB  
1.673977 ms

Ref 20 dBm  
\* Att 15 dB

20 Offset 17 dB

Marker 1 [T1]  
-58.31 dBm  
-12.824513 us

1 AP  
CLRWR

TRG -3.8 dBm

3dB

Center 2.48 GHz  
400 μs/

RBW 1 MHz  
VBW 1 MHz  
SWT 4 ms

Delta 1 [T1]  
-1.66 dB  
2.923977 ms

Ref 20 dBm  
\* Att 15 dB

1 AP  
CLRWR

20 Offset 17 dB

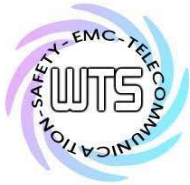
Marker 1 [T1]  
-55.23 dBm  
-12.820513 us

TRG 4.4 dBm

3dB

Center 2.48 GHz  
400  $\mu$ s/

Page 33 of 55



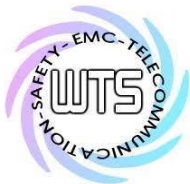
Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

**Limits and measurement periods:**

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.9 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: March 31, 2021

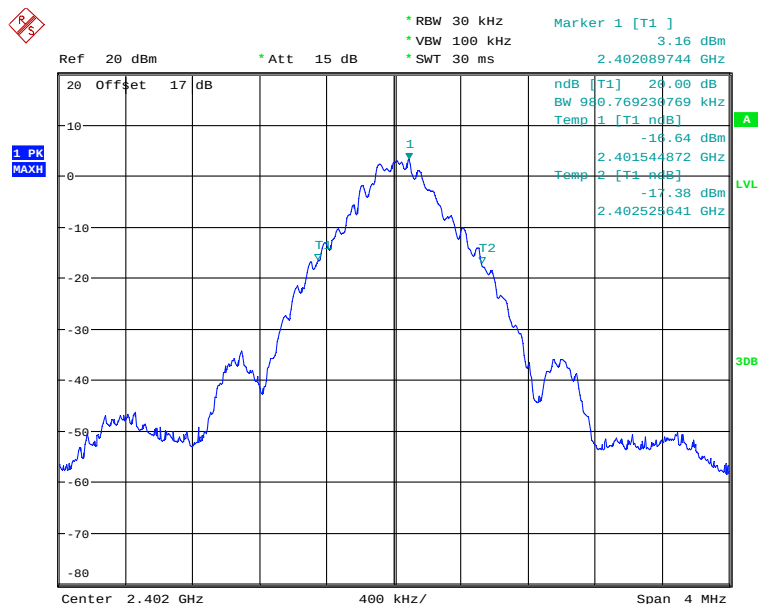
Temperature: 23.9 °C

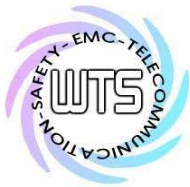
Humidity: 55.5 %

Tester: Spencer

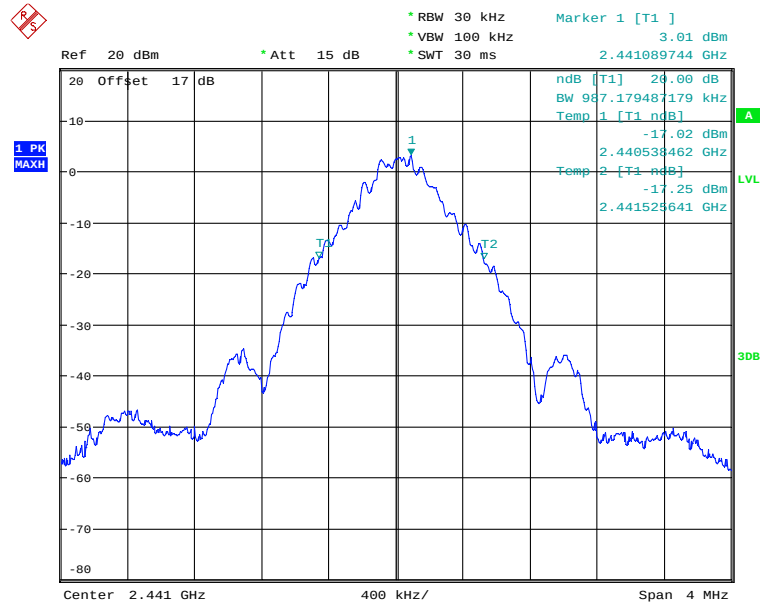
Bluetooth 2.0

Normal mode

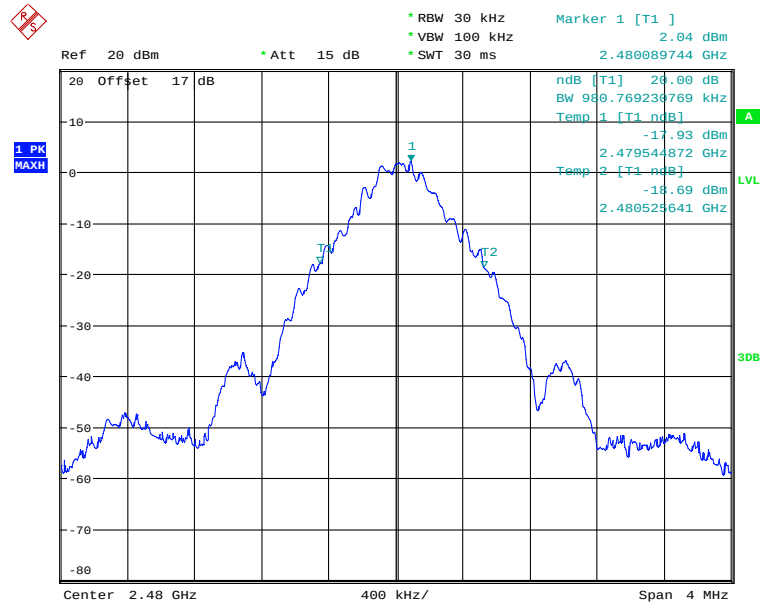




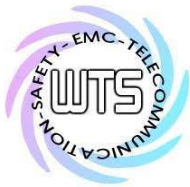
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



20DB BANDWIDTH CH39  
Date: 31.MAR.2021 10:28:14



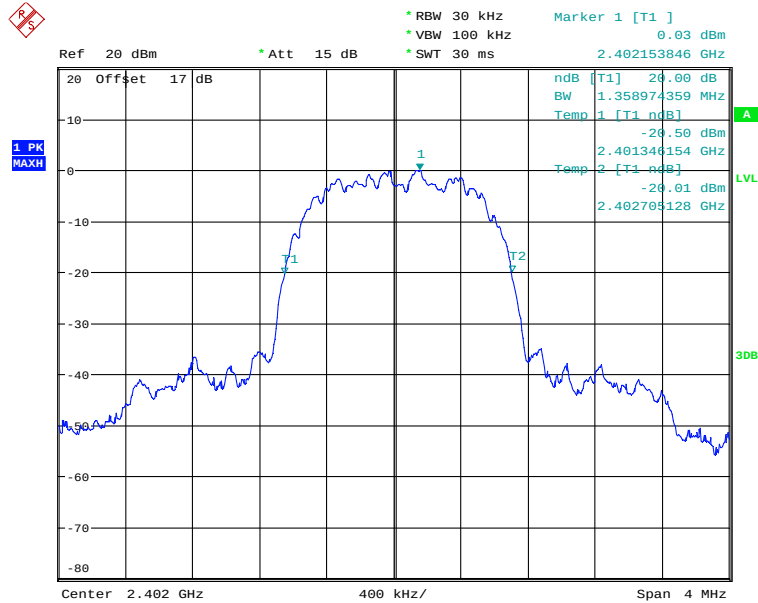
20DB BANDWIDTH CH78  
Date: 31.MAR.2021 10:29:26



Registration number: W6M22102-20692-C-1

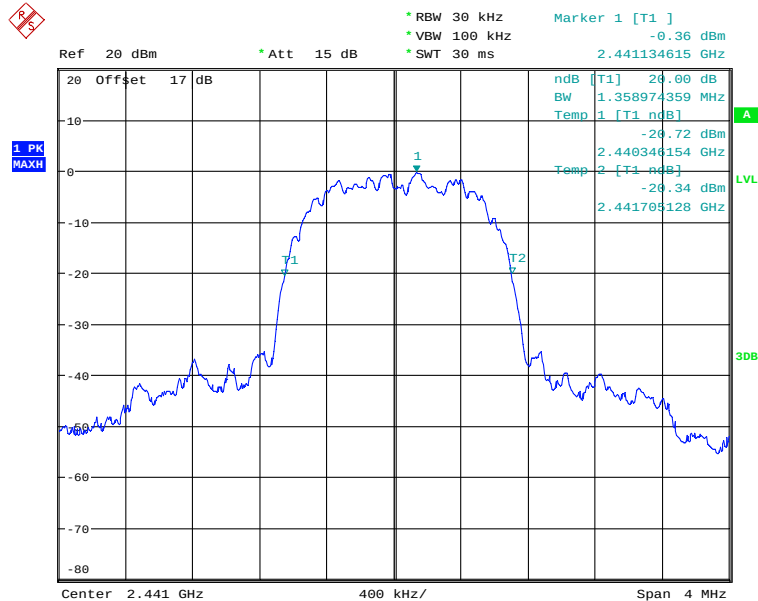
FCC ID: S9HZJRNFY14

EDR Mode



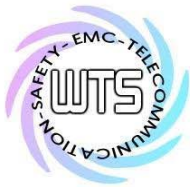
20DB BANDWIDTH CH0 EDR MODE

Date: 31.MAR.2021 10:35:42

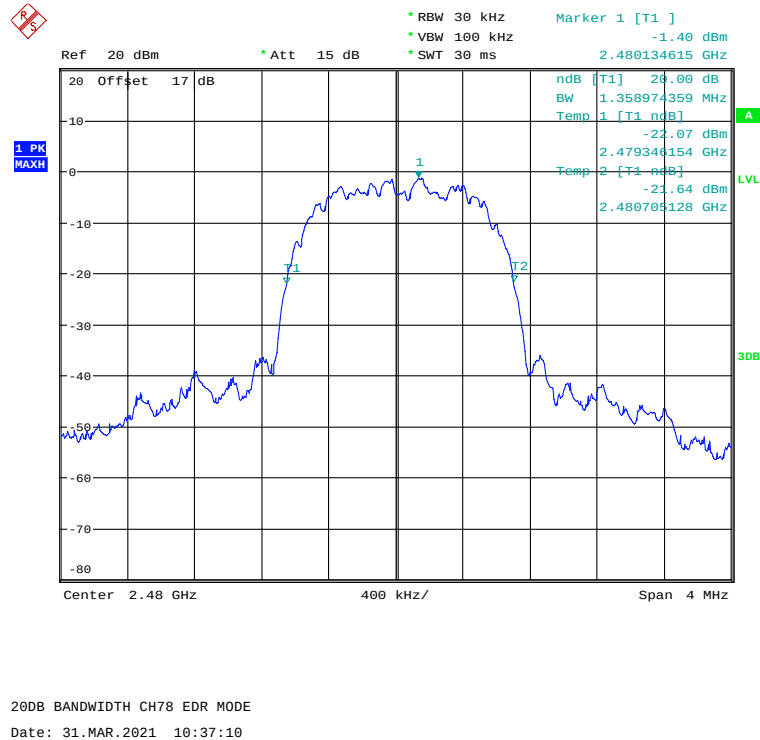


20DB BANDWIDTH CH39 EDR MODE

Date: 31.MAR.2021 10:36:38



Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



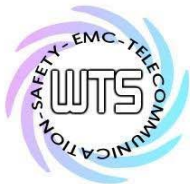
## Limits:

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

### 3.9.1 System Receiver Input Bandwidth

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



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.10 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.

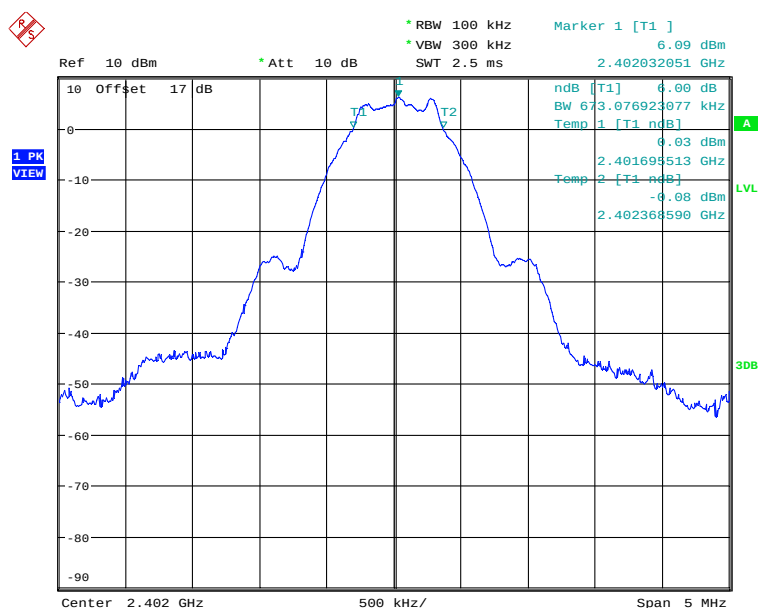
Test date: March 31, 2021

Temperature: 23.9 °C

Humidity: 55.5 %

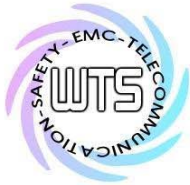
Tester: Spencer

Bluetooth 4.0

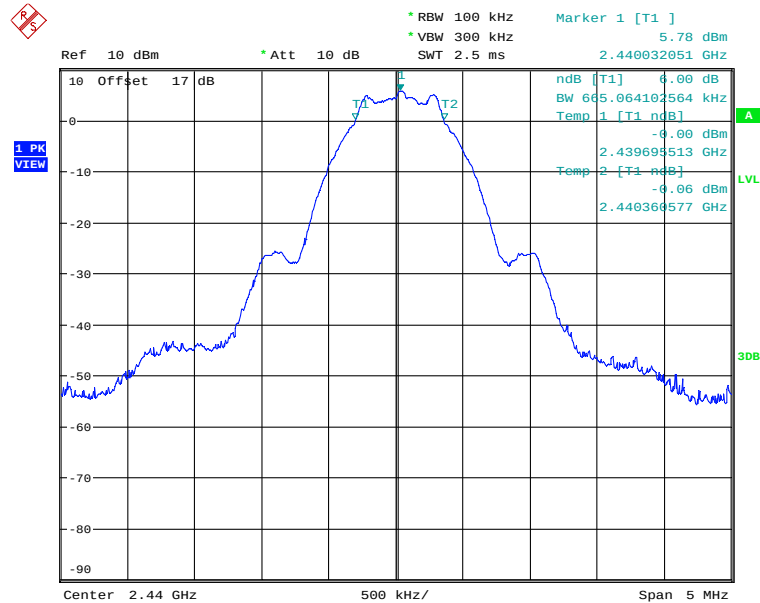


6DB BANDWIDTH BT4.0 CH00  
Date: 31.MAR.2021 10:56:58

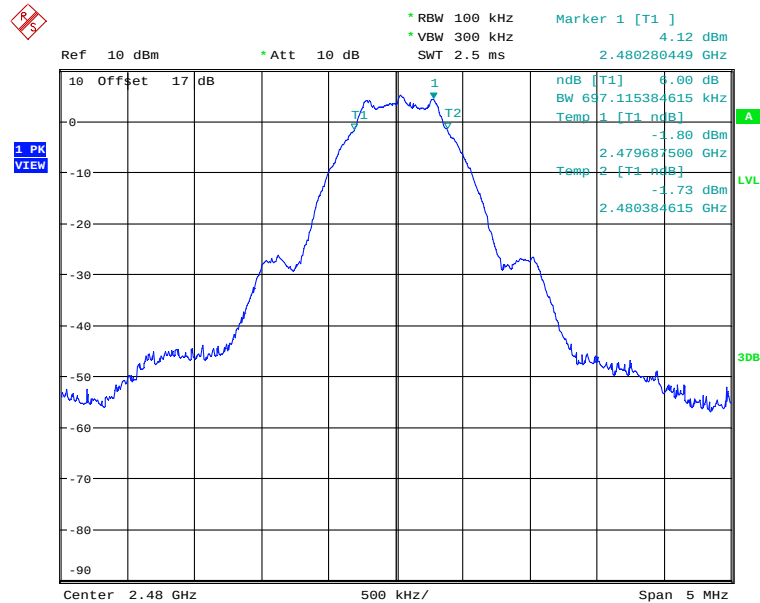




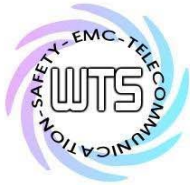
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



6DB BANDWIDTH BT4.0 CH19  
Date: 31.MAR.2021 11:11:00



6DB BANDWIDTH BT4.0 CH39  
Date: 31.MAR.2021 11:12:38



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

**Limits:**

| Frequency Range<br>MHz | Limits      |
|------------------------|-------------|
| 902-928                | min 500 kHz |
| 2400-2483.5            | min 500 kHz |
| 5725-5850              | min 500 kHz |

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



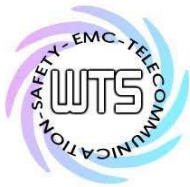
FCC ID: S9HZJRNFY14

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.

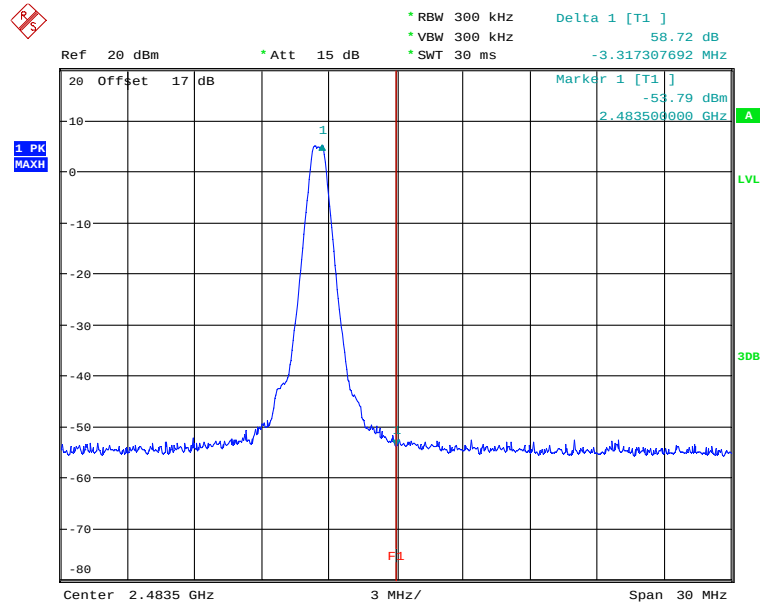
Tester: Spencer

### Normal mode

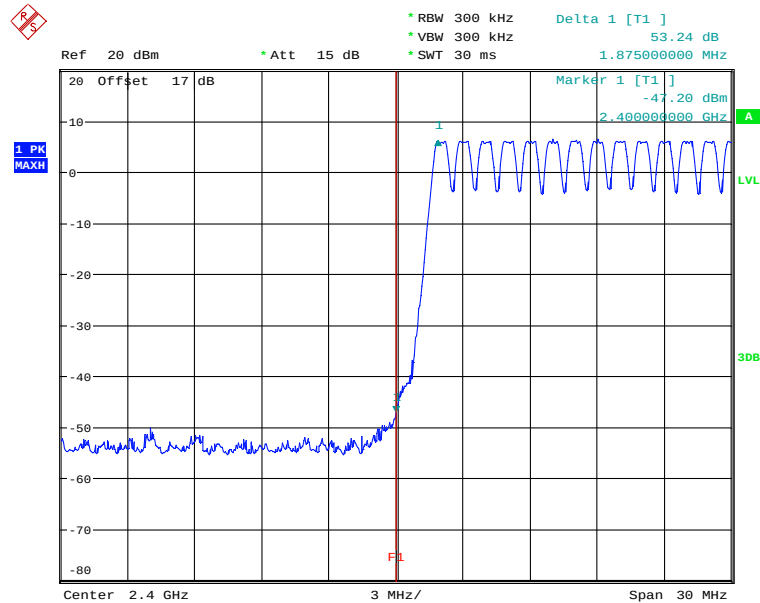
BANEDGE CH0  
 Date: 31.MAR.2021 10:20:18



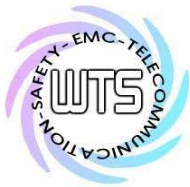
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



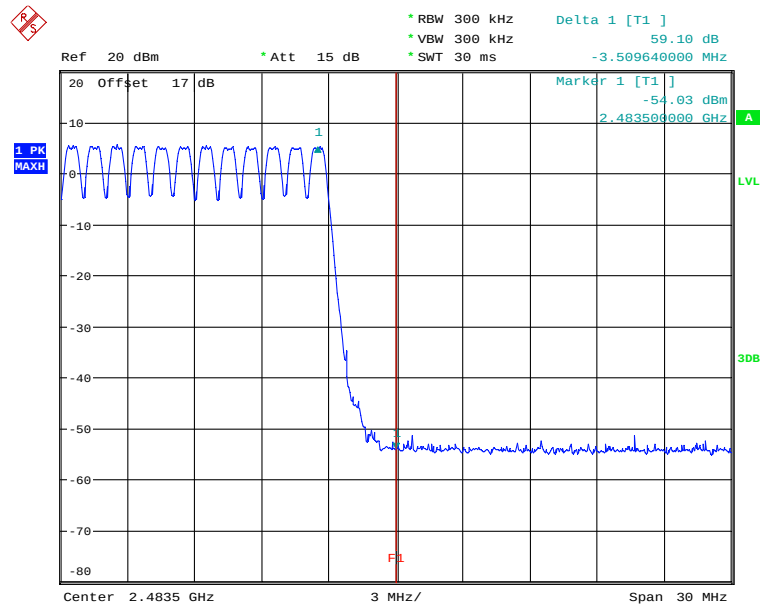
BANDEDGE CH78  
Date: 31.MAR.2021 10:29:34



BANDEDGE CH0 HOPPING MODE  
Date: 31.MAR.2021 10:30:38

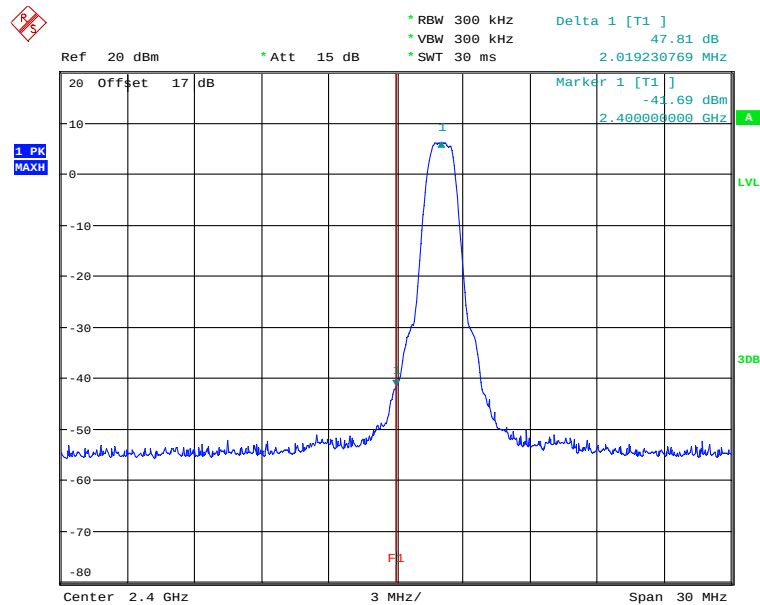


Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14

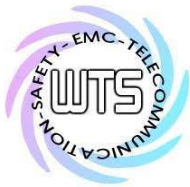


BANDEDGE CH78 HOPPING MODE  
Date: 31.MAR.2021 10:31:18

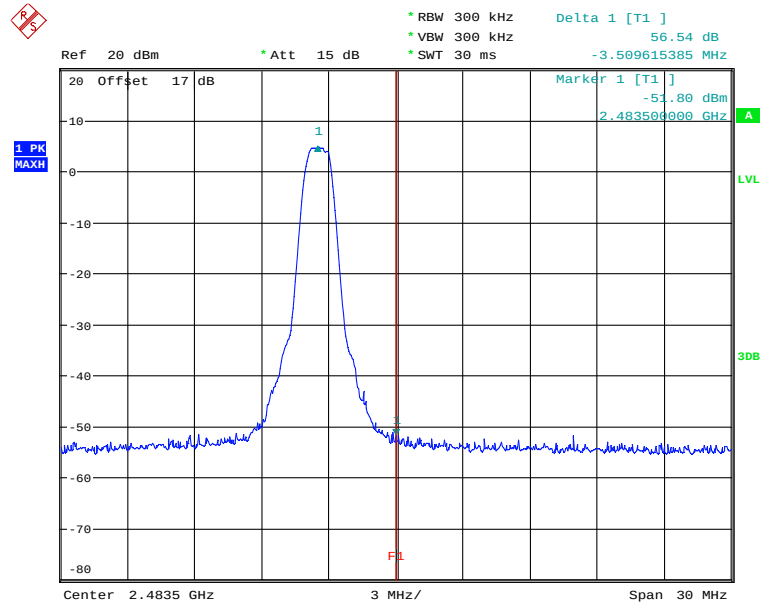
## EDR mode



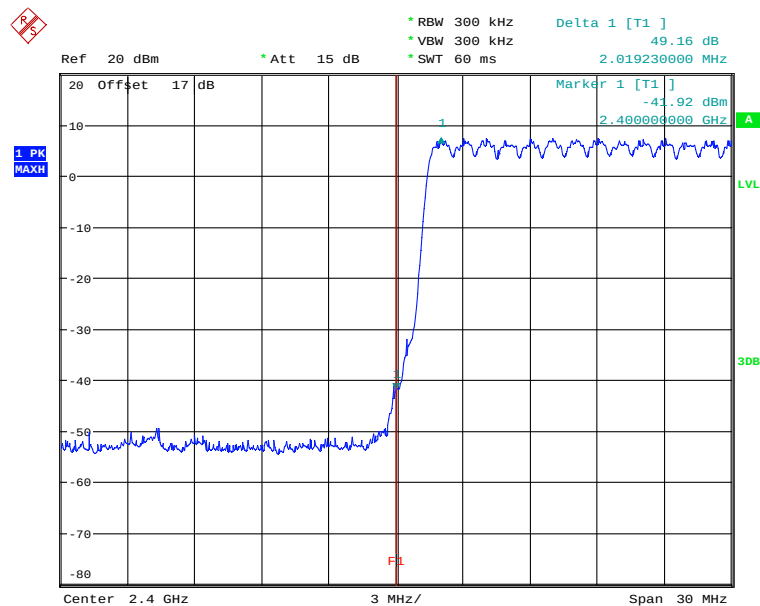
BANDEDGE CH0 EDR MODE  
Date: 31.MAR.2021 10:35:50



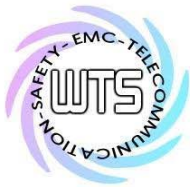
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



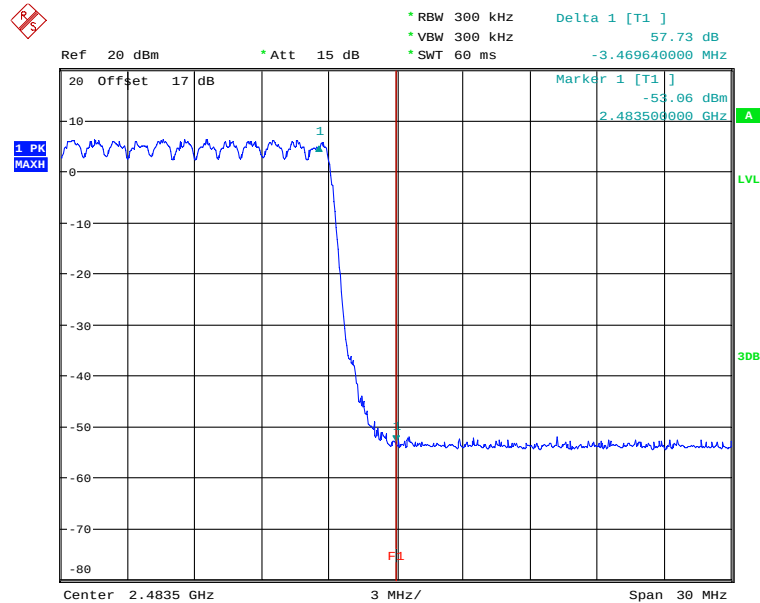
BANDEDGE CH78 EDR MODE  
Date: 31.MAR.2021 10:37:22



BANDEDGE CH0 EDR HOPPING MODE  
Date: 31.MAR.2021 10:43:18

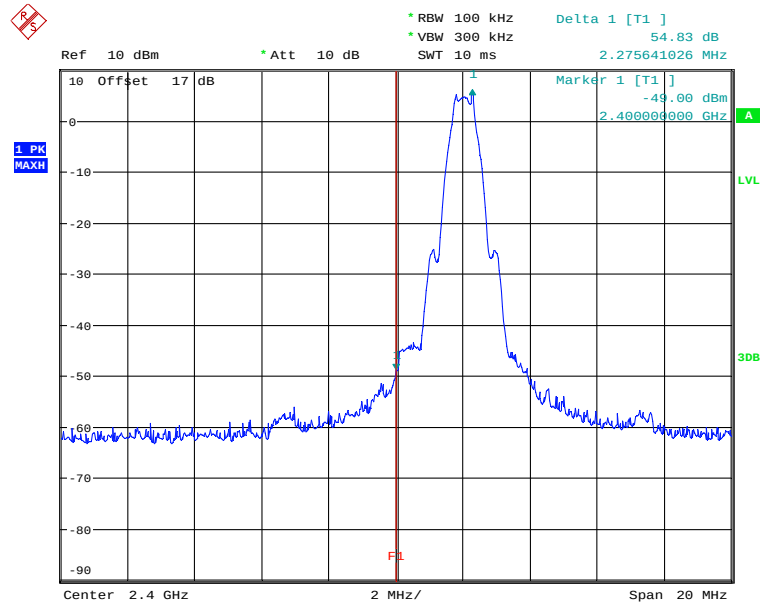


Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



BANDEDGE CH78 EDR HOPPING MODE  
Date: 31.MAR.2021 10:45:02

## Bluetooth 4.0



BANDEDGE BT4.0 CH00  
Date: 31.MAR.2021 10:57:16



Ref 10 dBm \* Att 10 dB \* RBW 100 kHz Delta 1 [T1] 63.54 dB  
 \* VBW 300 kHz -3.461538462 MHz  
 SWT 10 ms

10 Offset 17 dB 1  
 Marker 1 [T1]  
 -54.60 dBm  
 2.483500000 GHz

1 PK  
 MAXH

Center 2.4835 GHz 2 MHz/ Span 20 MHz

BANEDGE BT4.0 CH39

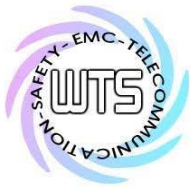
Date: 31.MAR.2021 11:12:56

Limit:

| Frequency Range / MHz | Limit   |
|-----------------------|---------|
| 902 – 928             | - 20 dB |
| 2400 – 2483.5         |         |
| 5725 - 5850           |         |

Test equipment used: ETSTW-RE 055, ETSTW-RE 050, ETSTW-RE 064





Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

## 3.12 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.

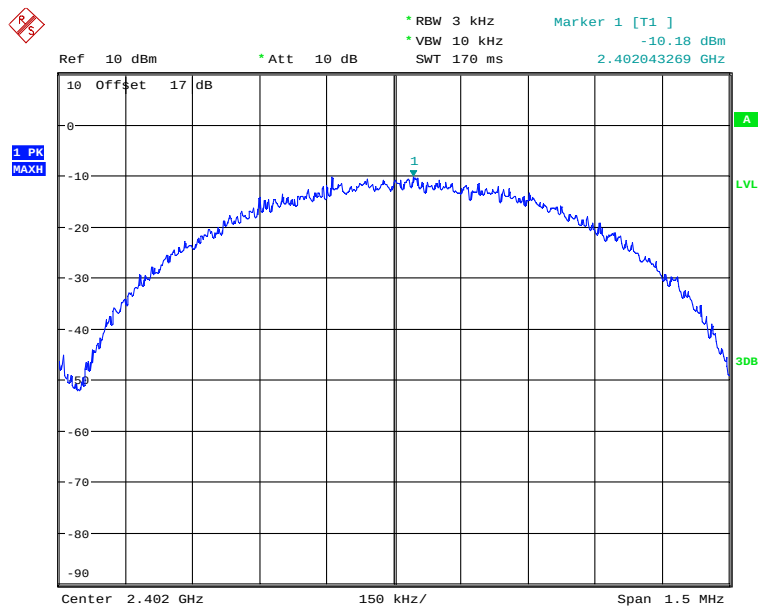
Test date: March 31, 2021

Temperature: 23.9 °C

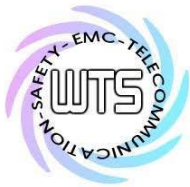
Humidity: 55.5 %

Tester: Spencer

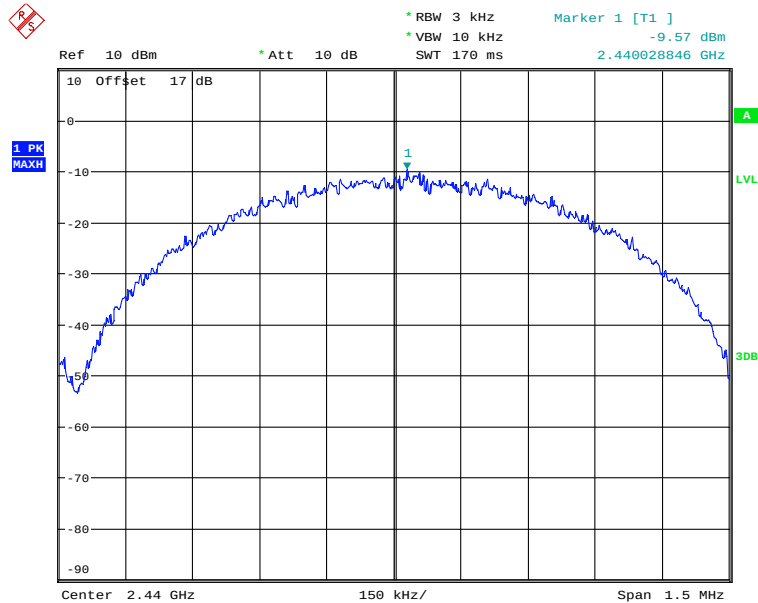
Bluetooth 4.0



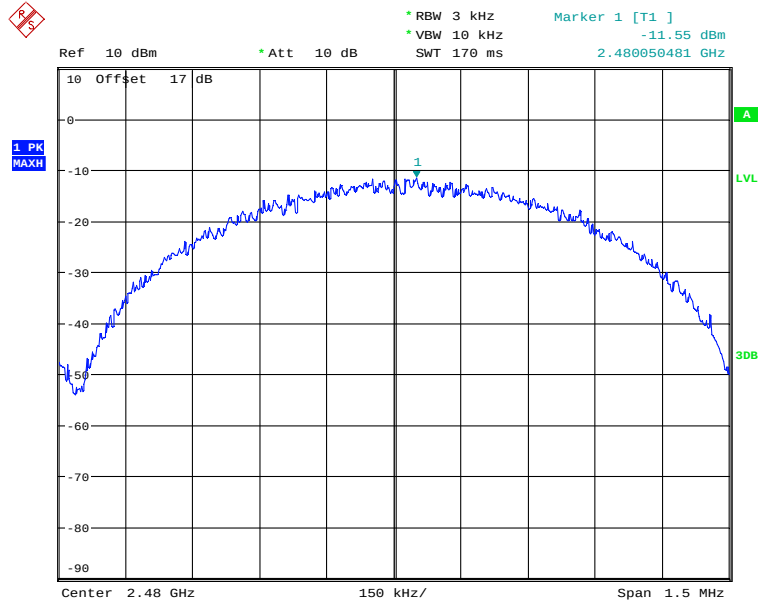
POWER DENSITY BT4.0 CH00  
Date: 31.MAR.2021 10:57:08



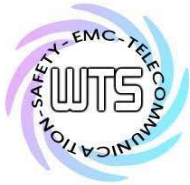
Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14



POWER DENSITY BT4.0 CH19  
Date: 31.MAR.2021 11:11:10



POWER DENSITY BT4.0 CH39  
Date: 31.MAR.2021 11:12:48



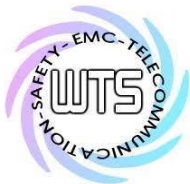
Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

**Limits:**

| Frequency Range<br>MHz | dBm |
|------------------------|-----|
| 902-928                | 8   |
| 2400-2483.5            | 8   |
| 5725-5850              | 8   |

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

### **3.13 Radiated Emission from Digital Part**

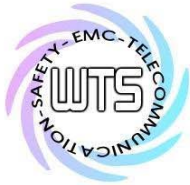
FCC Rule: 15.109

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

Test equipment used: ETSTW-RE 030, ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 111

Explanation: Please refer to separated test report no.: W6M22102-20692-P-15B.



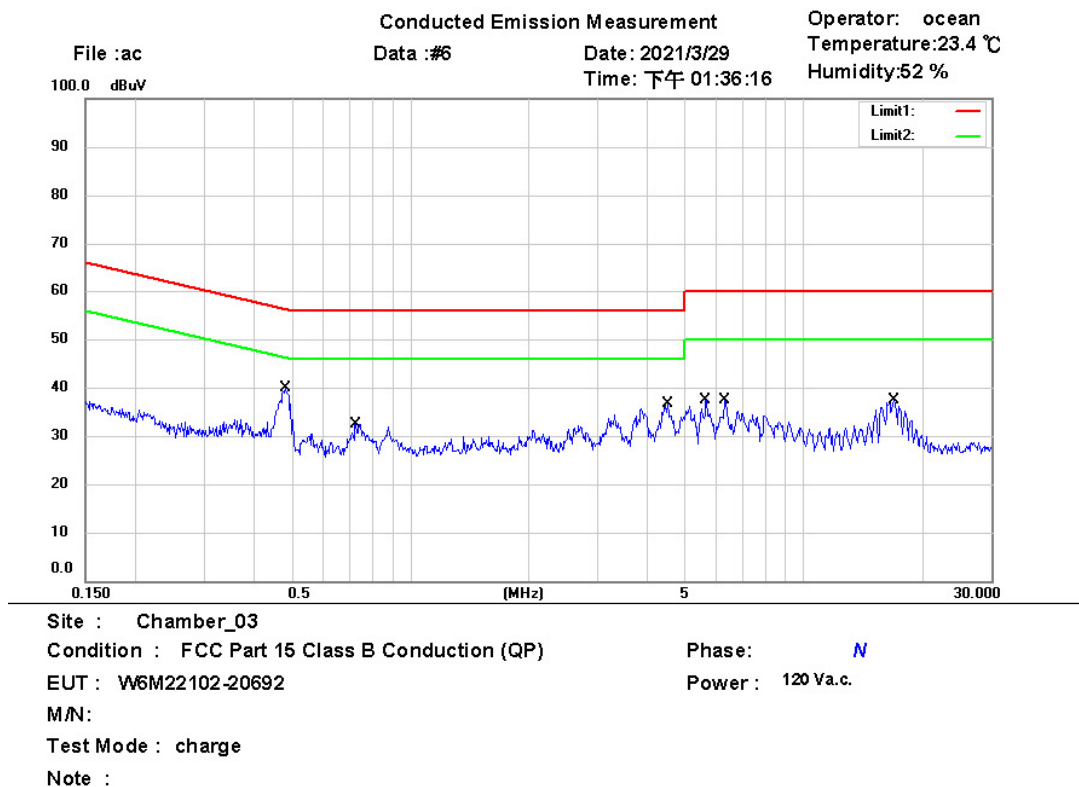
Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

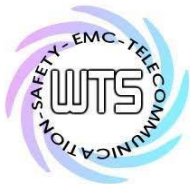
## 3.14 Power Line Conducted Emission

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.



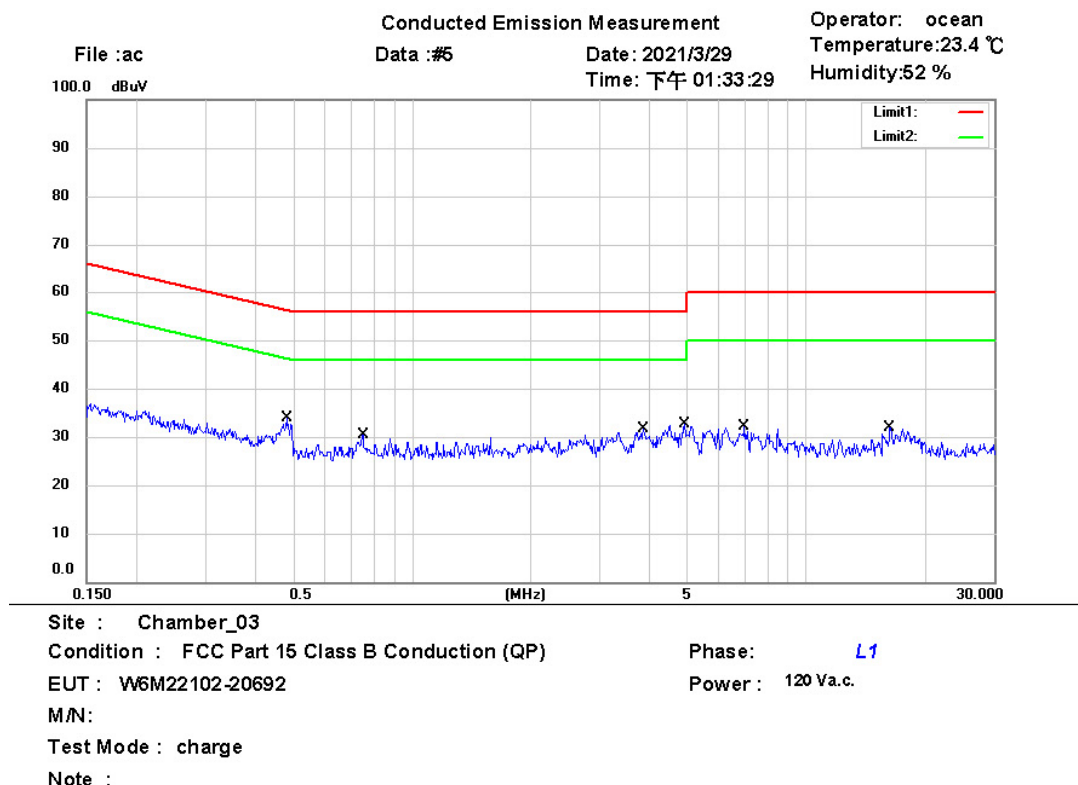
| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
|     | 0.4793          | 18.84          | QP       | 9.61                 | 28.45         | 56.35        | -27.90      |         |
| *   | 0.4793          | 10.43          | AVG      | 9.61                 | 20.04         | 46.35        | -26.31      |         |
|     | 0.7250          | 8.94           | QP       | 9.58                 | 18.52         | 56.00        | -37.48      |         |
|     | 0.7250          | 1.88           | AVG      | 9.58                 | 11.46         | 46.00        | -34.54      |         |
|     | 4.5140          | 14.65          | QP       | 9.97                 | 24.62         | 56.00        | -31.38      |         |
|     | 4.5140          | 7.42           | AVG      | 9.97                 | 17.39         | 46.00        | -28.61      |         |
|     | 5.6625          | 15.80          | QP       | 10.14                | 25.94         | 60.00        | -34.06      |         |
|     | 5.6625          | 9.59           | AVG      | 10.14                | 19.73         | 50.00        | -30.27      |         |
|     | 6.3000          | 15.94          | QP       | 10.04                | 25.98         | 60.00        | -34.02      |         |
|     | 6.3000          | 8.04           | AVG      | 10.04                | 18.08         | 50.00        | -31.92      |         |
|     | 17.0125         | 18.03          | QP       | 10.14                | 28.17         | 60.00        | -31.83      |         |
|     | 17.0125         | 9.29           | AVG      | 10.14                | 19.43         | 50.00        | -30.57      |         |



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Registration number: W6M22102-20692-C-1

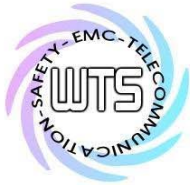
FCC ID: S9HZJRNFY14



| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
|     | 0.4800          | 12.54          | QP       | 9.62                 | 22.16         | 56.34        | -34.18      |         |
| *   | 0.4800          | 7.25           | AVG      | 9.62                 | 16.87         | 46.34        | -29.47      |         |
|     | 0.7475          | 5.05           | QP       | 9.58                 | 14.63         | 56.00        | -41.37      |         |
|     | 0.7475          | -0.59          | AVG      | 9.58                 | 8.99          | 46.00        | -37.01      |         |
|     | 3.8705          | 9.89           | QP       | 9.66                 | 19.55         | 56.00        | -36.45      |         |
|     | 3.8705          | 6.83           | AVG      | 9.66                 | 16.49         | 46.00        | -29.51      |         |
|     | 4.9190          | 9.05           | QP       | 10.20                | 19.25         | 56.00        | -36.75      |         |
|     | 4.9190          | 5.35           | AVG      | 10.20                | 15.55         | 46.00        | -30.45      |         |
|     | 6.9875          | 9.62           | QP       | 9.91                 | 19.53         | 60.00        | -40.47      |         |
|     | 6.9875          | 6.05           | AVG      | 9.91                 | 15.96         | 50.00        | -34.04      |         |
|     | 16.3125         | 10.14          | QP       | 10.06                | 20.20         | 60.00        | -39.80      |         |
|     | 16.3125         | 5.98           | AVG      | 10.06                | 16.04         | 50.00        | -33.96      |         |

| Frequency | Level (dBμV)     |                  |
|-----------|------------------|------------------|
|           | quasi-peak       | average          |
| 150 kHz   | lower limit line | Lower limit line |

- 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.



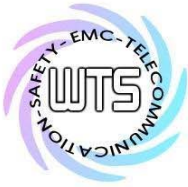
Registration number: W6M22102-20692-C-1

FCC ID: S9HZJRNFY14

**Limits:**

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.



Registration number: W6M22102-20692-C-1  
FCC ID: S9HZJRNFY14

## **Appendix**

### **Measurement diagrams**

Spurious Emissions radiated





## Radiated Emission Measurement

Operator: Vincent

File : 1\_BT(2)

Data : #1

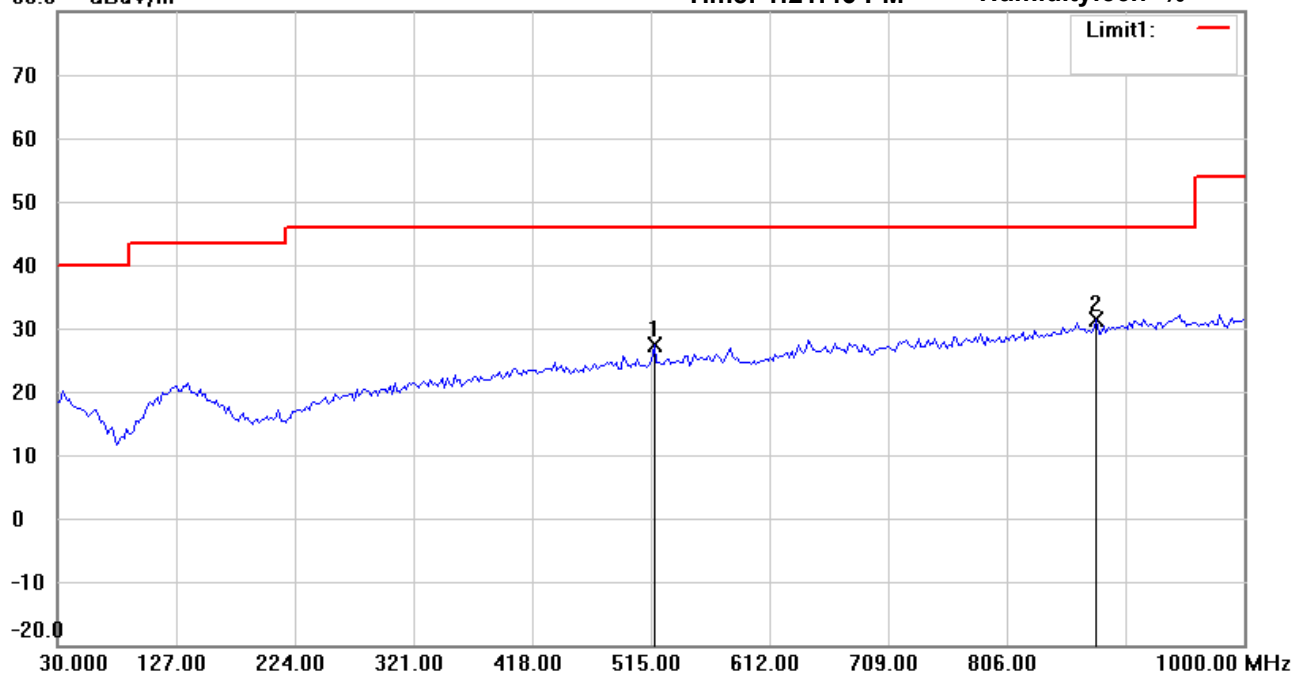
Date: 4/8/2021

Temperature: 24.5 °C

80.0 dBuV/m

Time: 1:21:46 PM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 517.9157        | 29.84          | peak     | -2.38               | 27.46           | 46.00          | 100          | 326            | -18.54      |         |
| *   | 879.4790        | 27.98          | peak     | 3.28                | 31.26           | 46.00          | 100          | 190            | -14.74      |         |



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Radiated Emission Measurement

Operator: Vincent

File : 1\_BT(2)

Data : #2

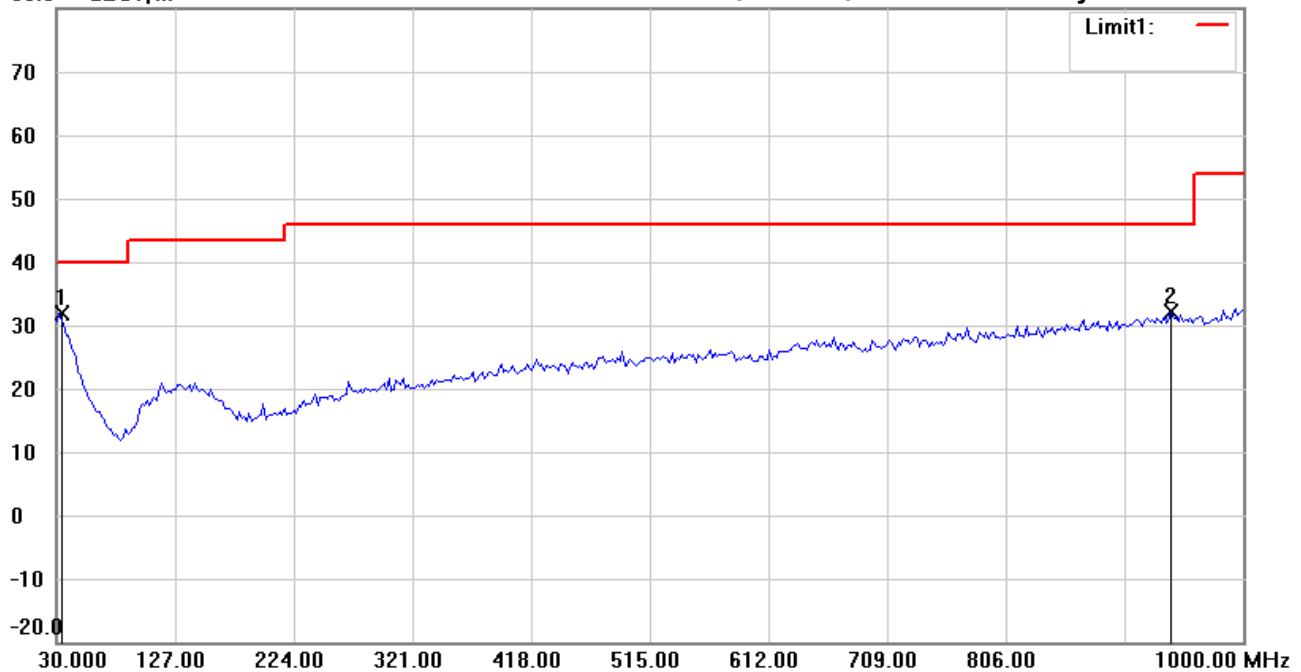
Date: 4/8/2021

Temperature: 24.5 °C

80.0 dBuV/m

Time: 1:22:46 PM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 31.9440         | 40.24          | QP       | -8.46               | 31.78           | 40.00          | 117          | 25             | -8.22       |         |
|     | 941.6834        | 27.78          | peak     | 4.35                | 32.13           | 46.00          | 100          | 144            | -13.87      |         |

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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #1

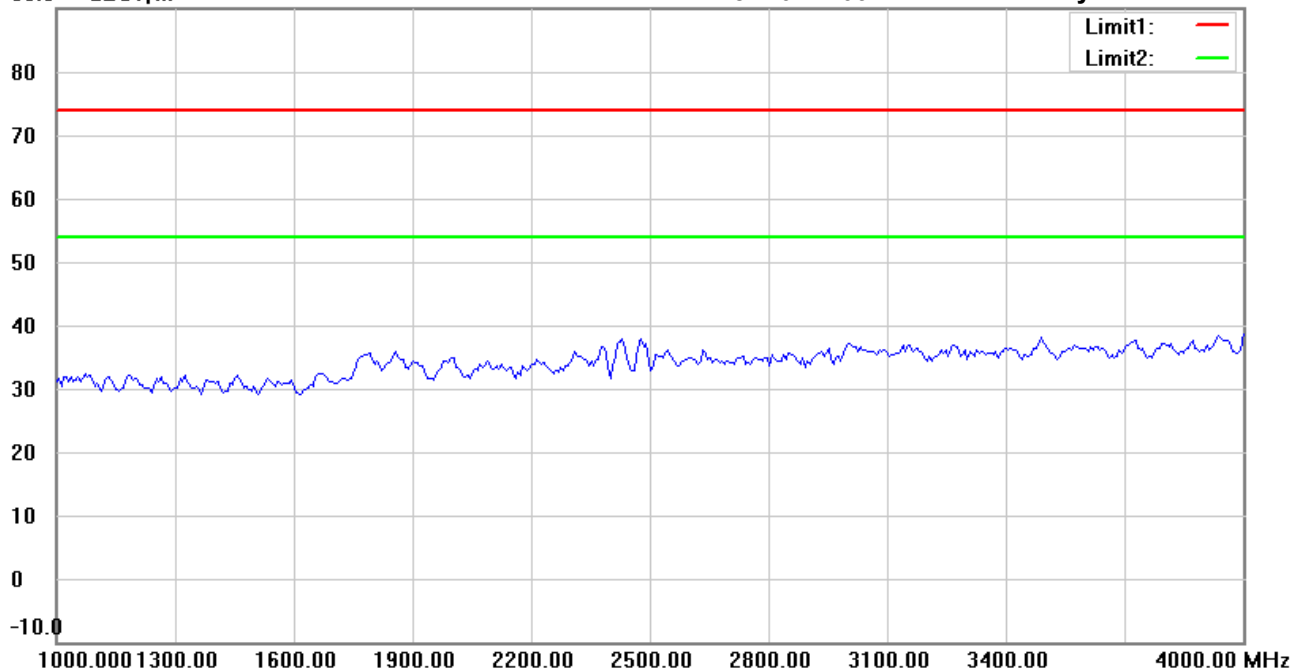
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:42:09 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #6

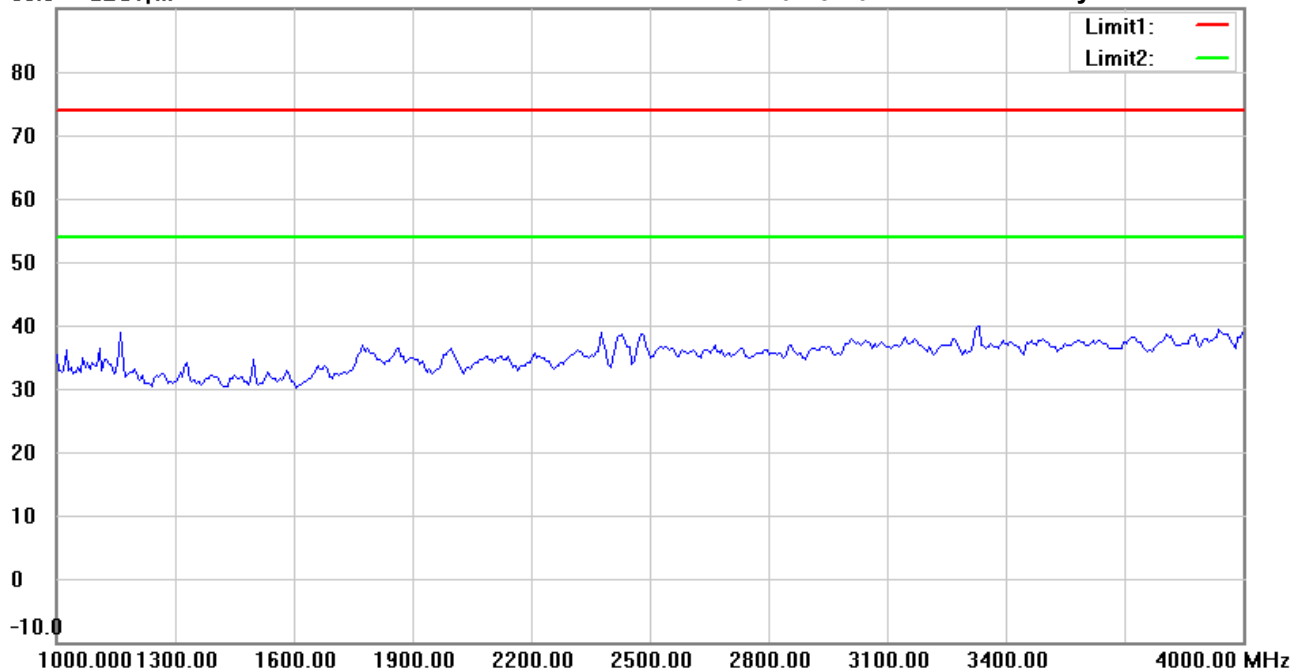
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:45:40 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #2

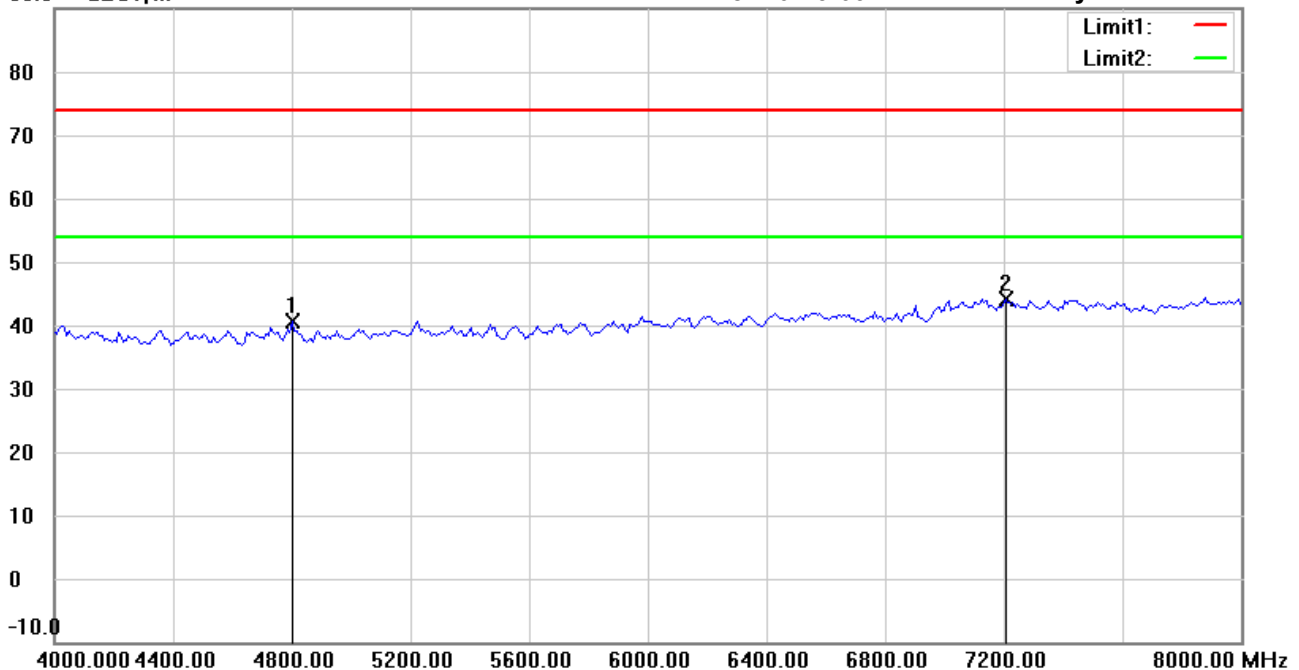
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:43:09 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4801.603        | 42.29          | peak     | -1.76               | 40.53           | 74.00          | 150          | 166            | -33.47      |         |
| *   | 7206.000        | 40.91          | peak     | 3.32                | 44.23           | 74.00          | 150          | 317            | -29.77      |         |

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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #7

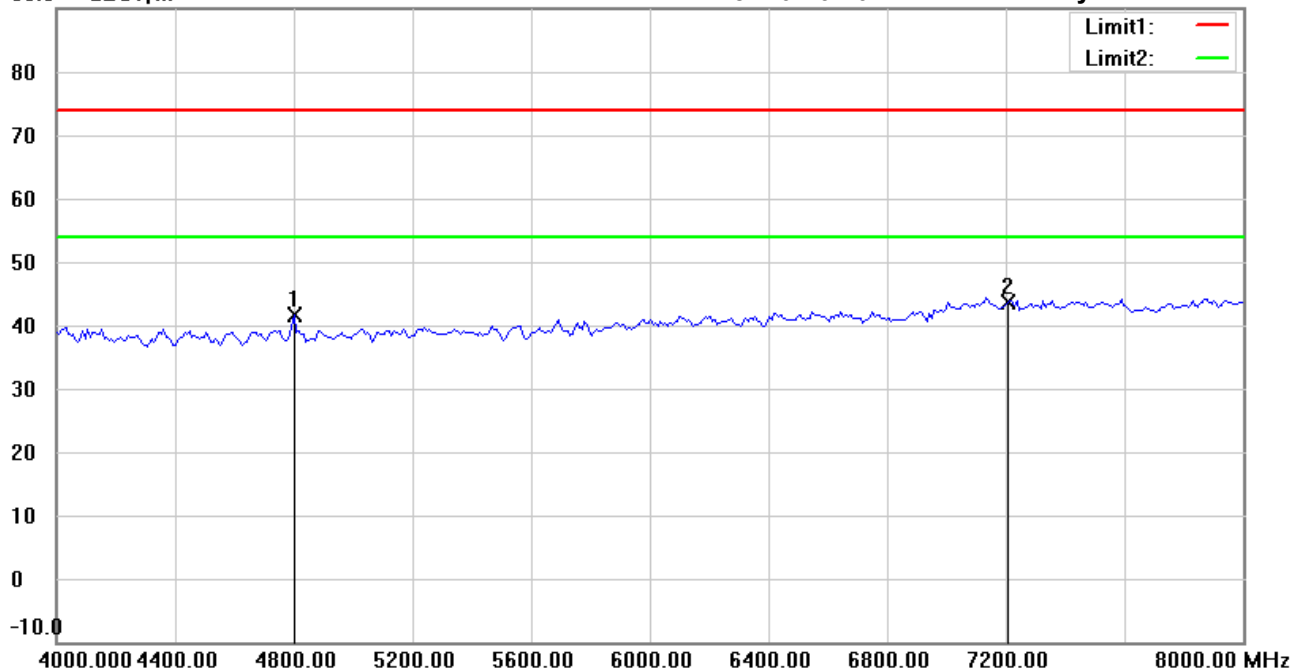
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:46:40 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4801.603        | 43.35          | peak     | -1.76               | 41.59           | 74.00          | 150          | 147            | -32.41      |         |
| *   | 7206.000        | 40.38          | peak     | 3.32                | 43.70           | 74.00          | 150          | 228            | -30.30      |         |

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



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# Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

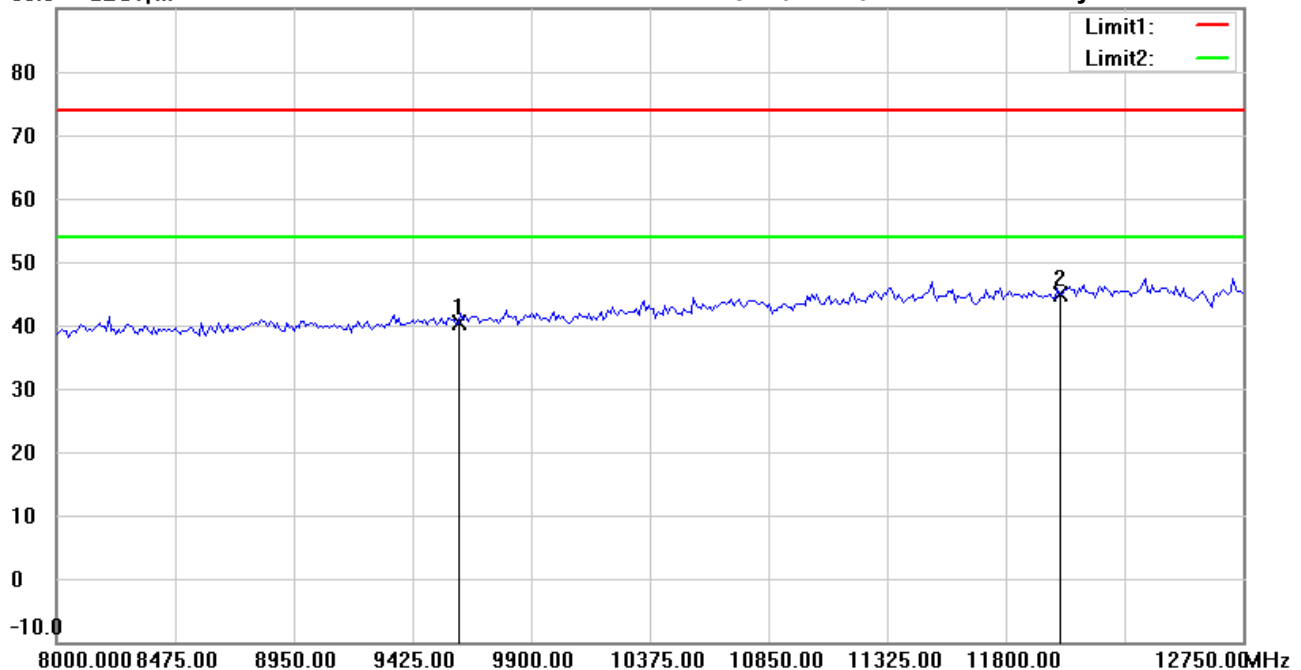
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:44:16 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 33.79          | peak     | 6.70                | 40.49           | 74.00          | 150          | 54             | -33.51      |         |
| *   | 12010.000       | 33.30          | peak     | 11.68               | 44.98           | 74.00          | 150          | 138            | -29.02      |         |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

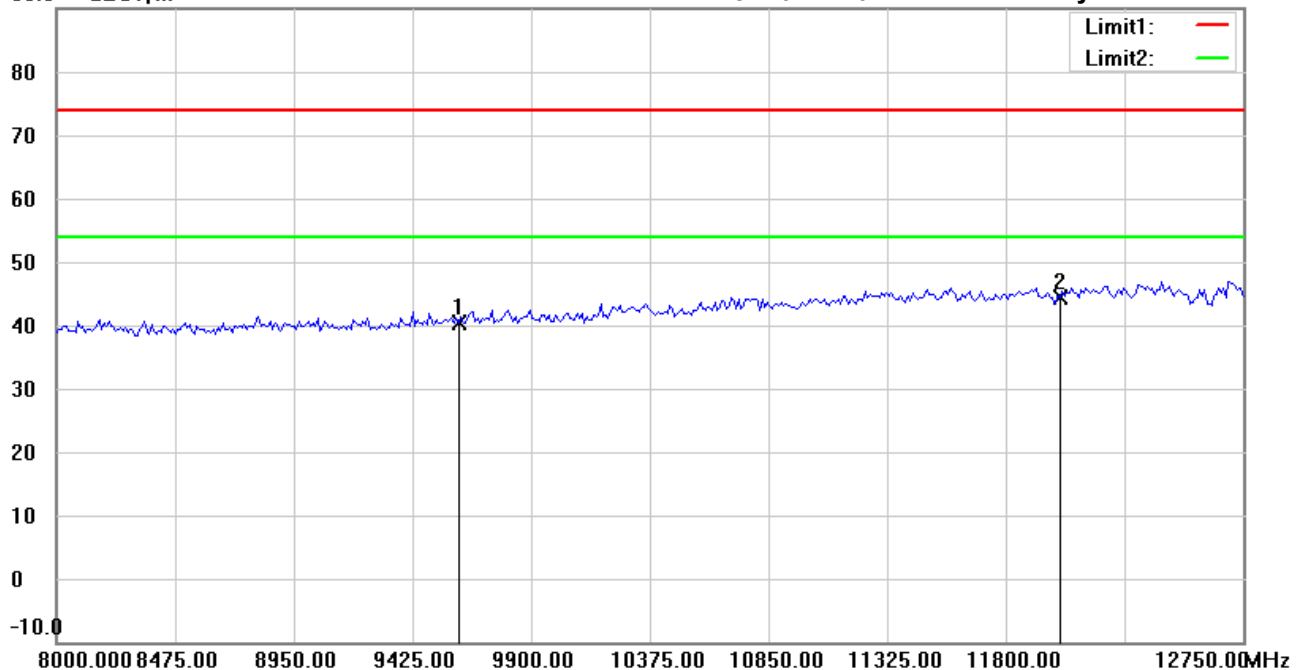
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:47:40 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 33.65          | peak     | 6.70                | 40.35           | 74.00          | 150          | 148            | -33.65      |         |
| *   | 12010.000       | 32.67          | peak     | 11.68               | 44.35           | 74.00          | 150          | 221            | -29.65      |         |

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





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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #4

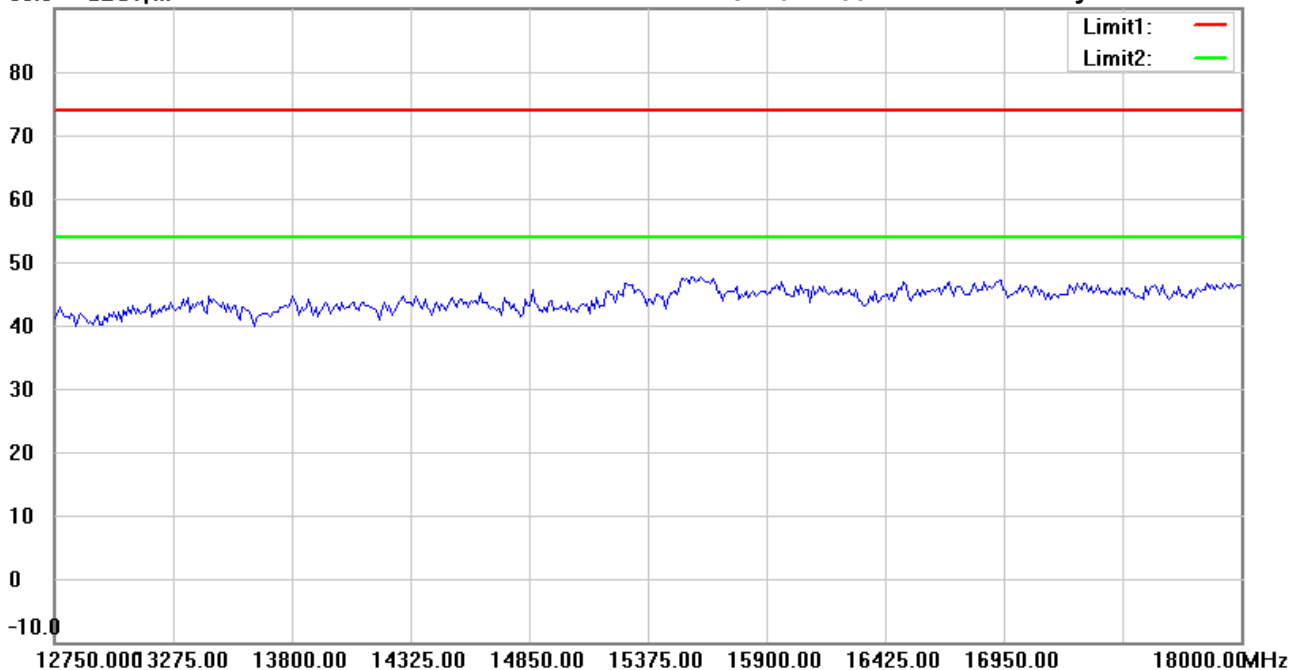
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:44:30 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #9

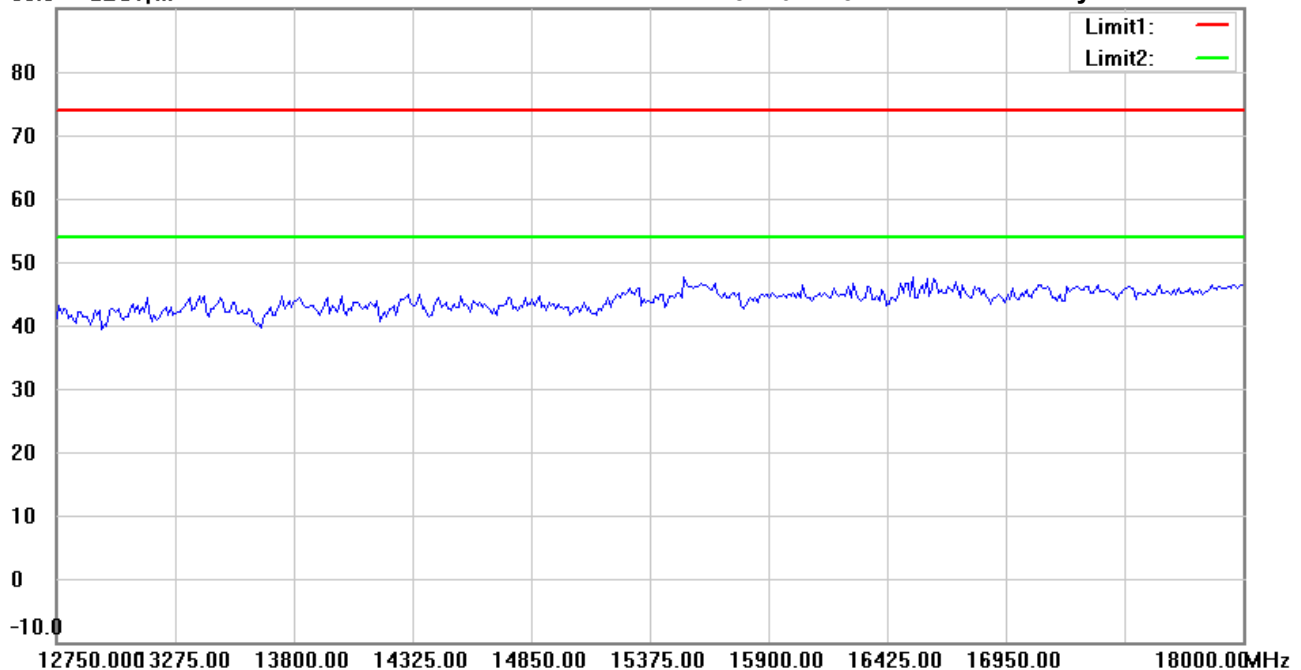
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:47:54 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

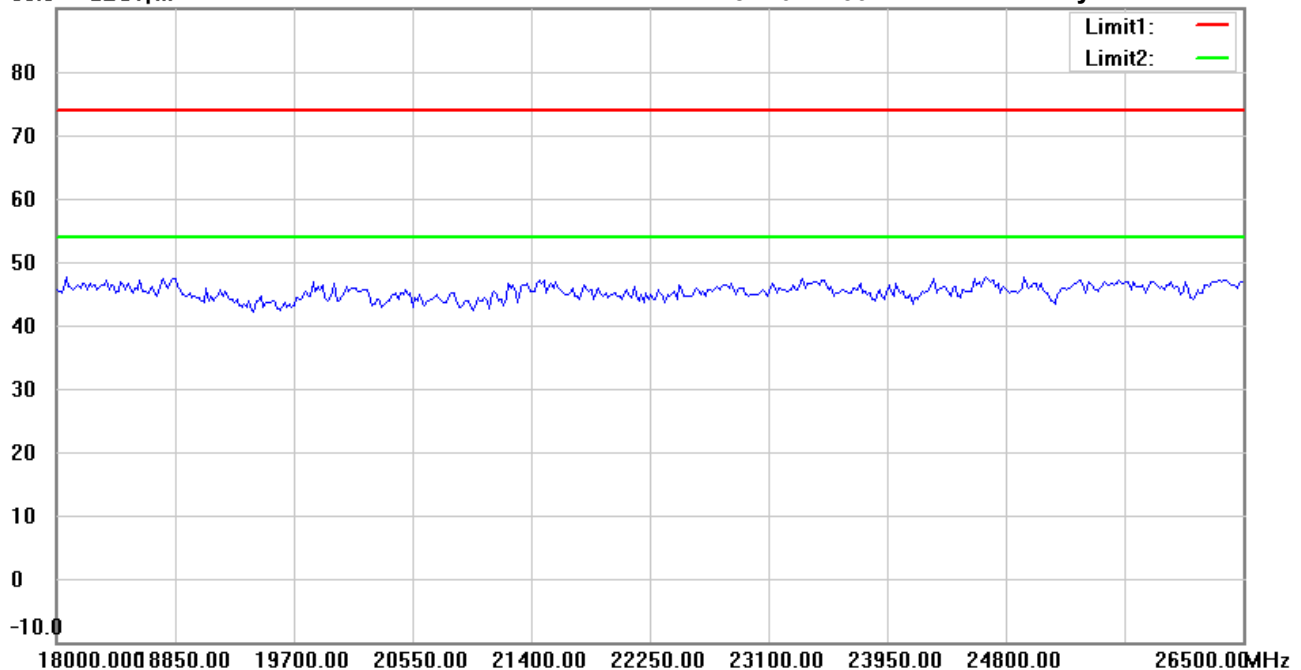
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:44:39 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

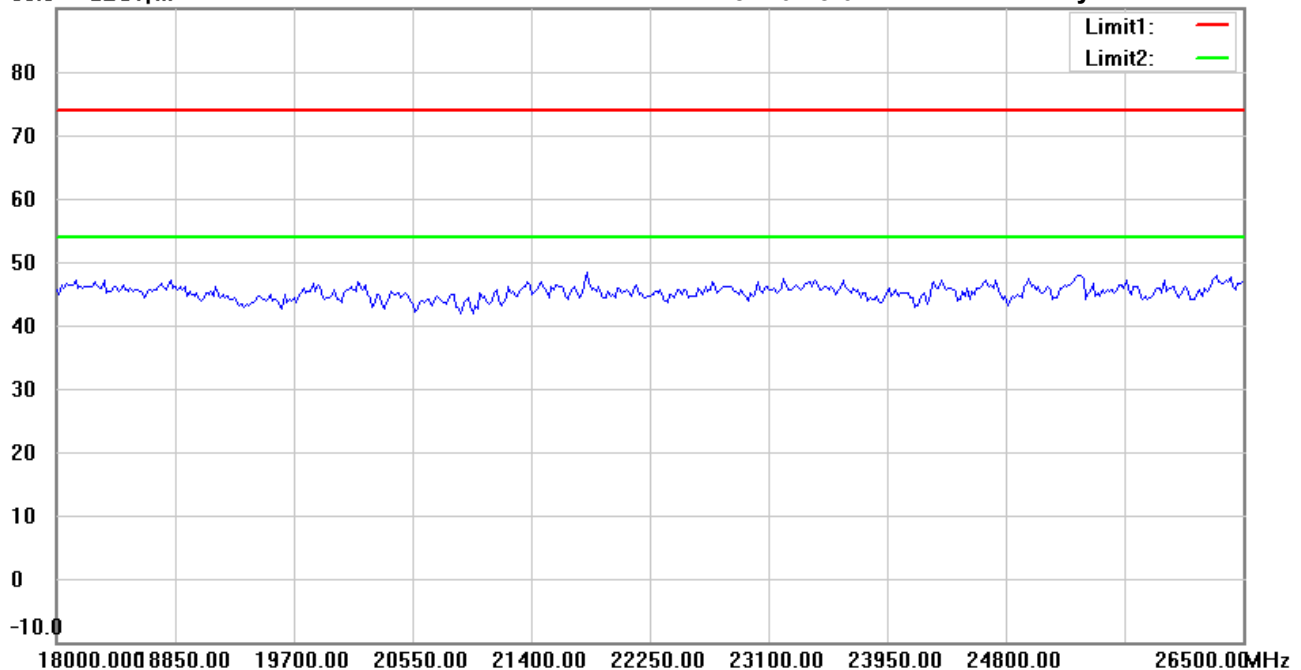
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 10:48:04 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #1

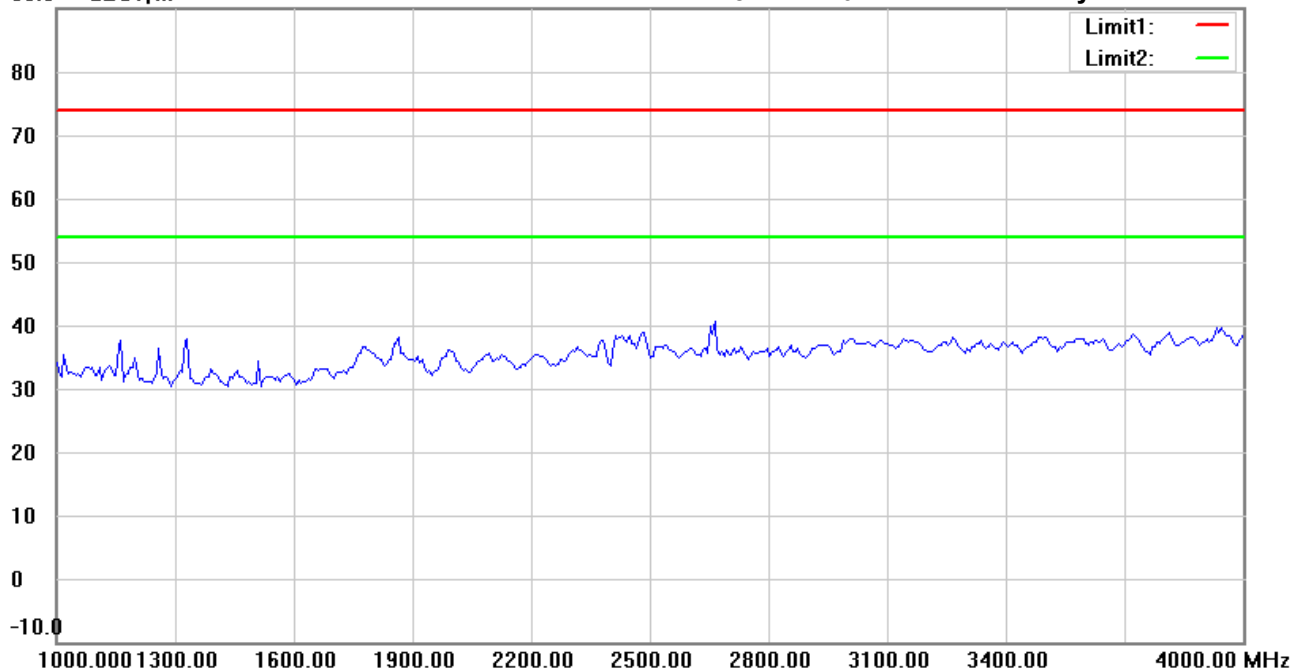
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:42:04 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei  
Tel: +886-2-6606-8877  
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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #6

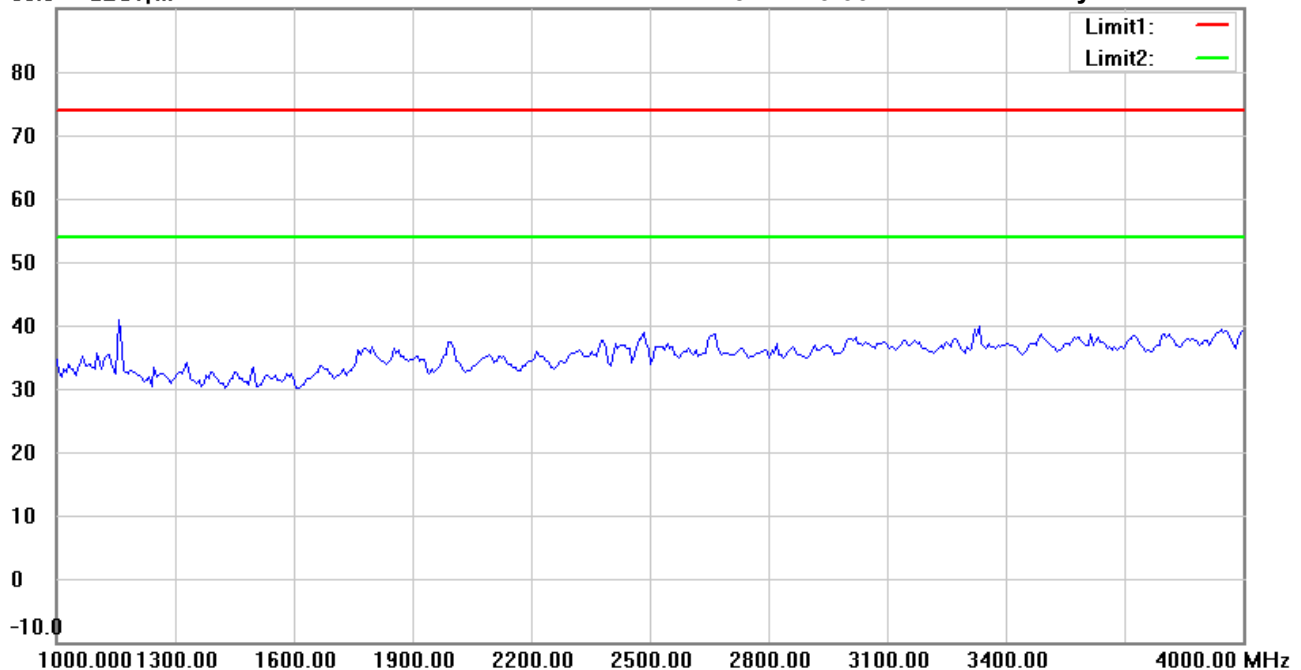
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:45:35 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: **Vertical**

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #2

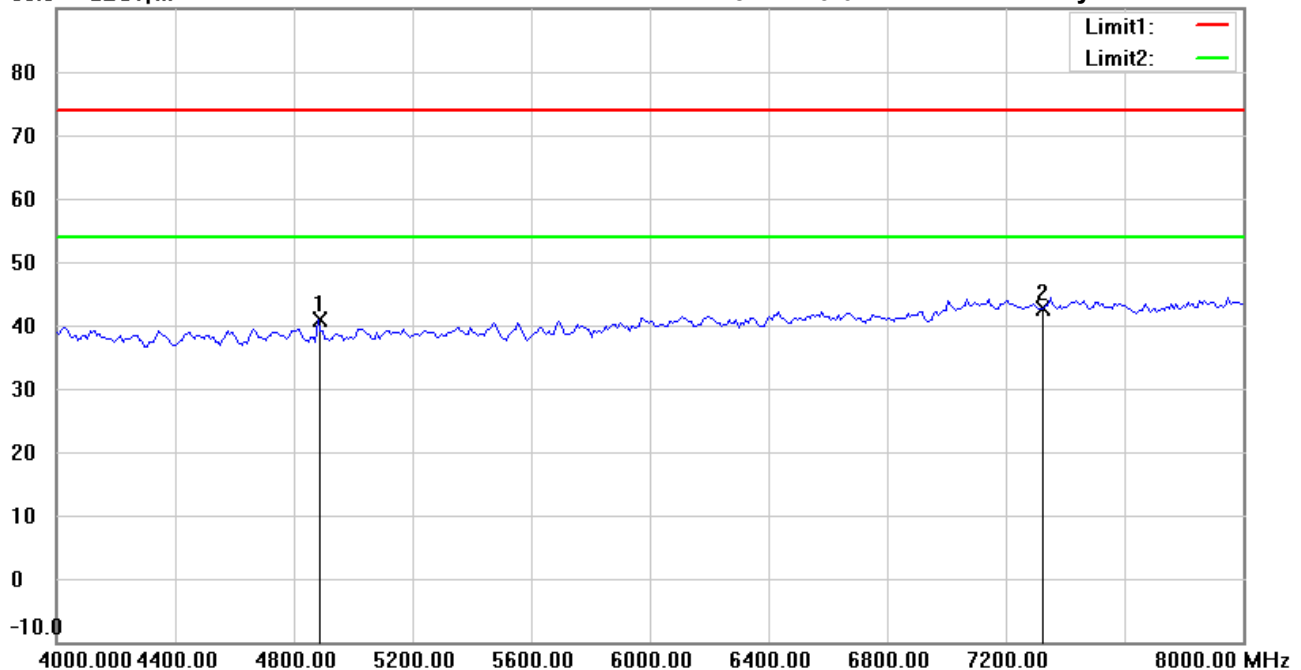
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:43:04 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4881.764        | 42.36          | peak     | -1.60               | 40.76           | 74.00          | 150          | 99             | -33.24      |         |
| *   | 7323.000        | 39.12          | peak     | 3.53                | 42.65           | 74.00          | 150          | 174            | -31.35      |         |

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



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Tel: +886-2-6606-8877  
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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #7

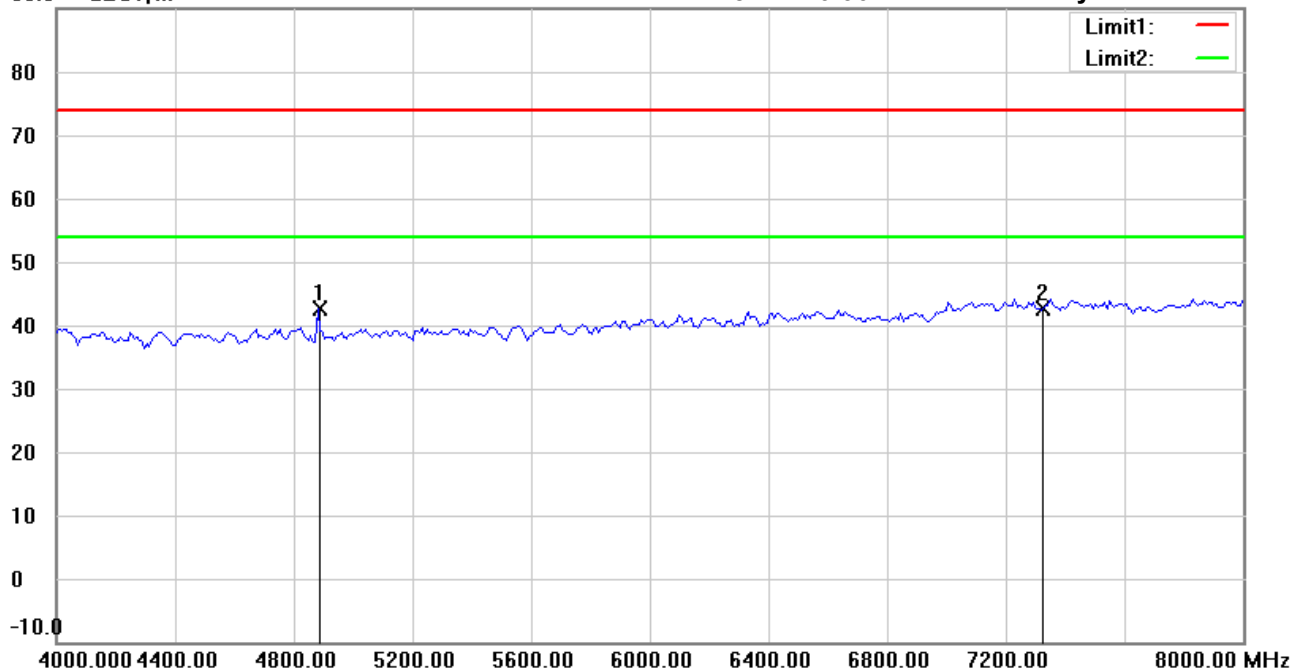
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:46:36 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 4881.764        | 44.30          | peak     | -1.60               | 42.70           | 74.00          | 150          | 249            | -31.30      |         |
|     | 7323.000        | 39.06          | peak     | 3.53                | 42.59           | 74.00          | 150          | 188            | -31.41      |         |

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





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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #3

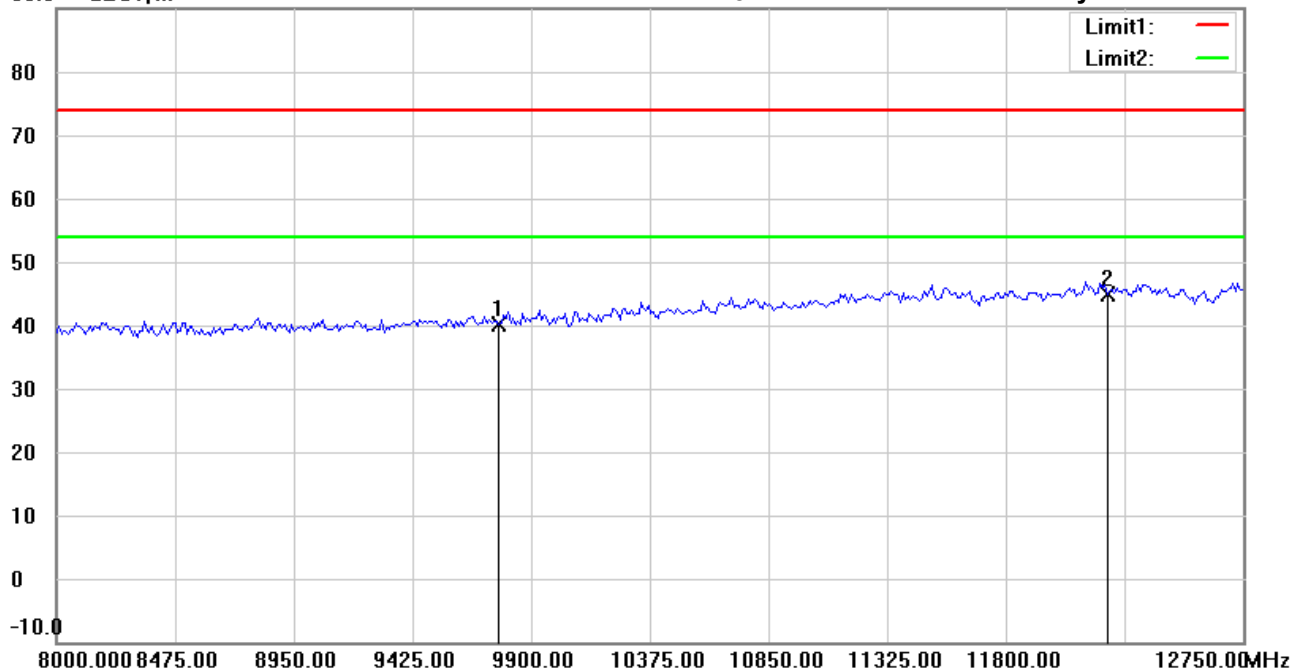
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:44:11 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9764.000        | 33.31          | peak     | 6.85                | 40.16           | 74.00          | 150          | 249            | -33.84      |         |
| *   | 12205.000       | 31.93          | peak     | 12.98               | 44.91           | 74.00          | 150          | 188            | -29.09      |         |

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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #8

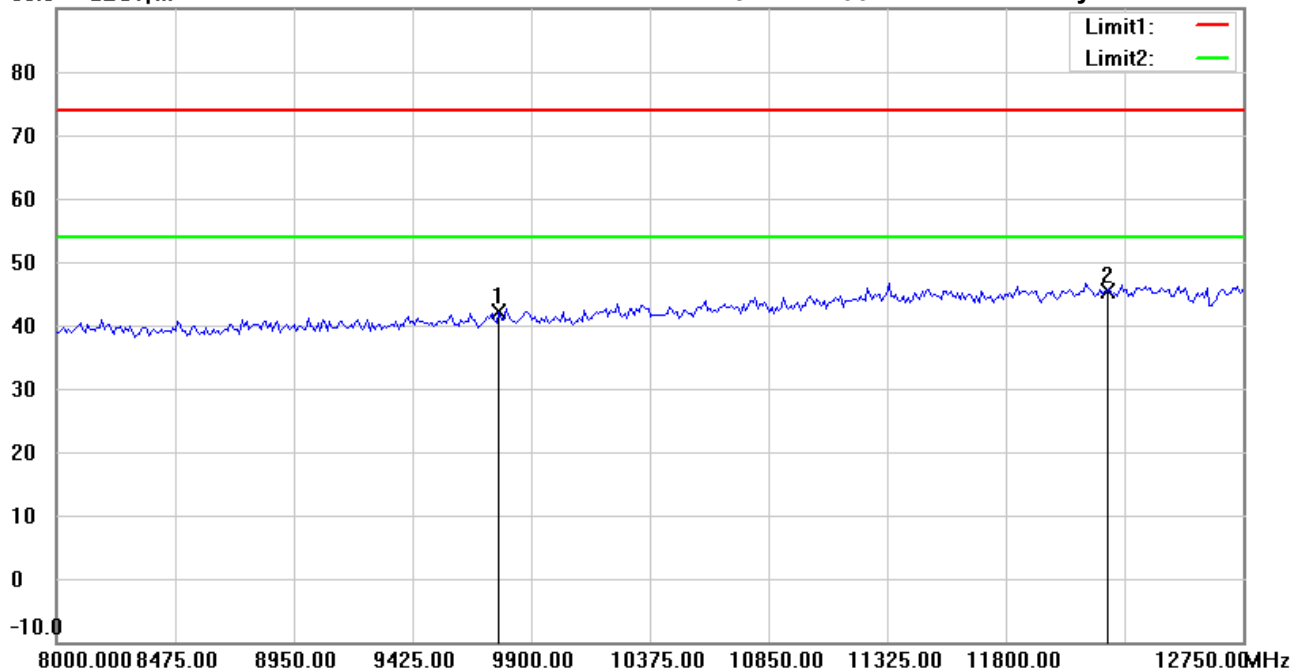
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:47:35 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9764.000        | 35.40          | peak     | 6.85                | 42.25           | 74.00          | 150          | 119            | -31.75      |         |
| *   | 12205.000       | 32.44          | peak     | 12.98               | 45.42           | 74.00          | 150          | 234            | -28.58      |         |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

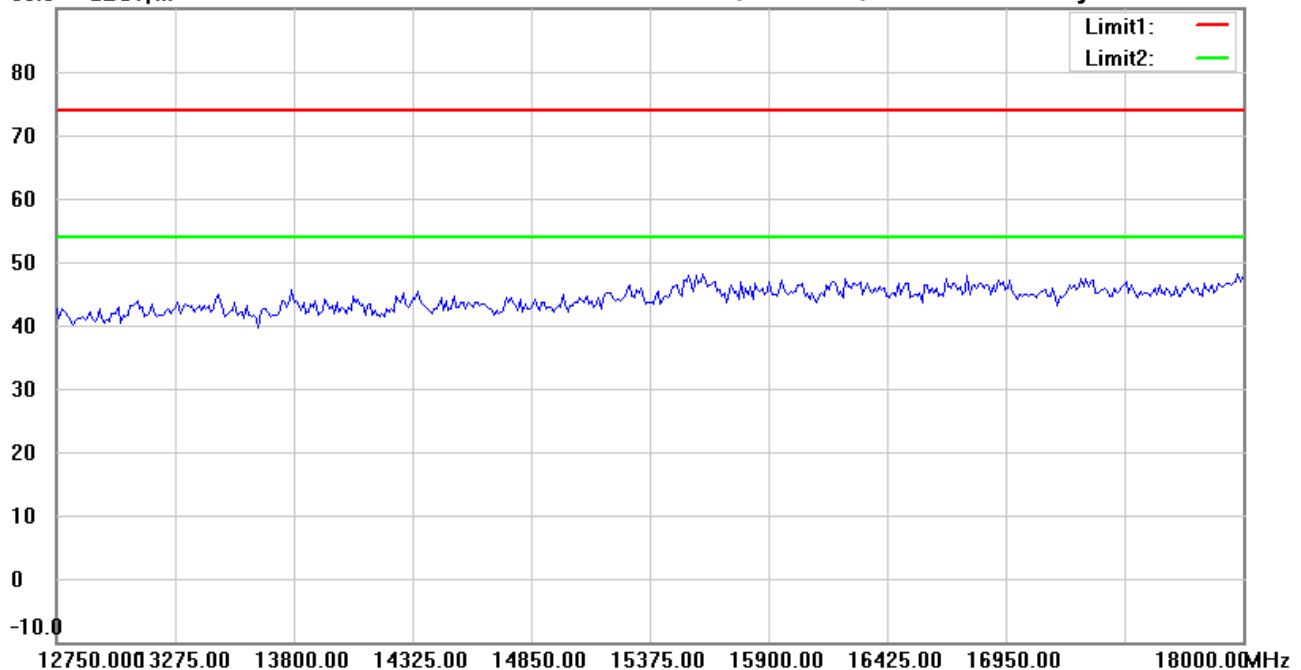
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:44:25 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #9

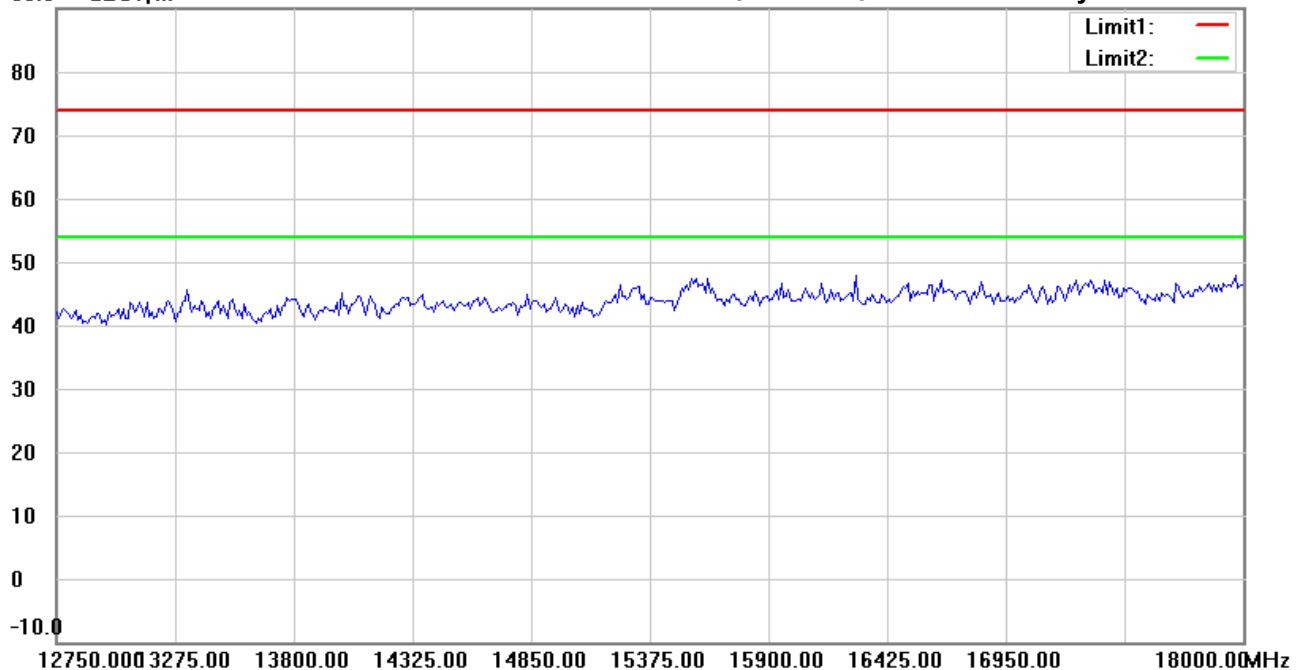
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:47:49 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

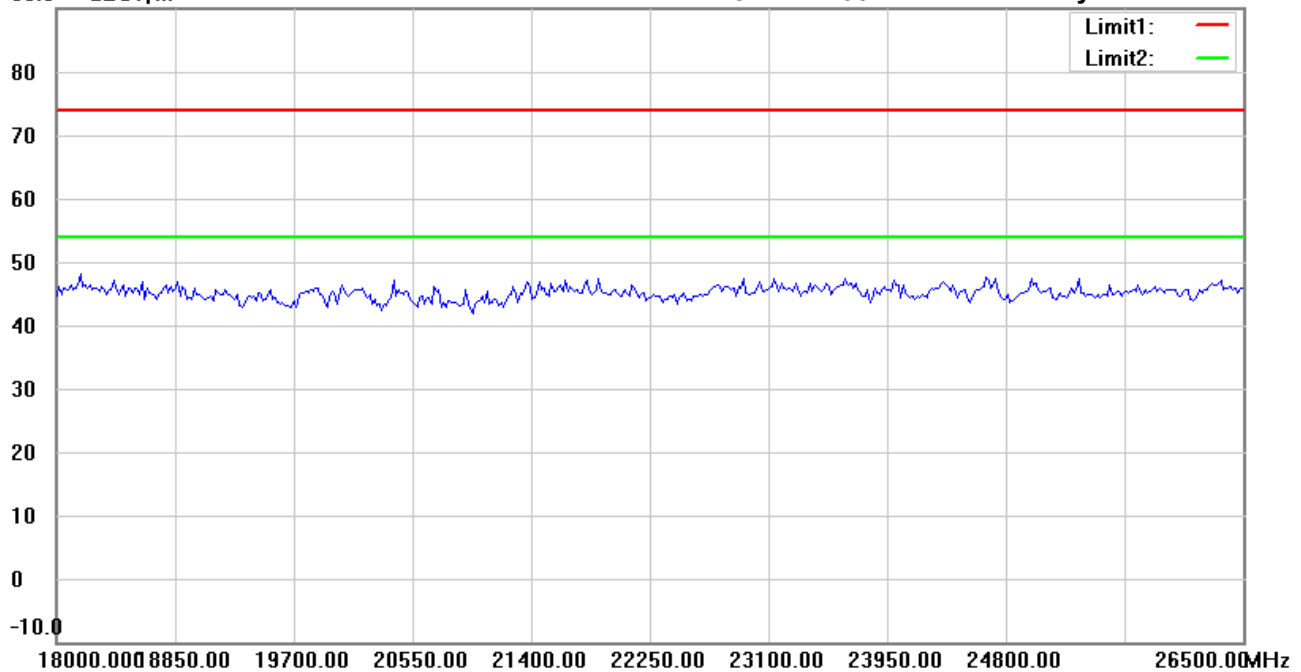
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:44:35 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #10

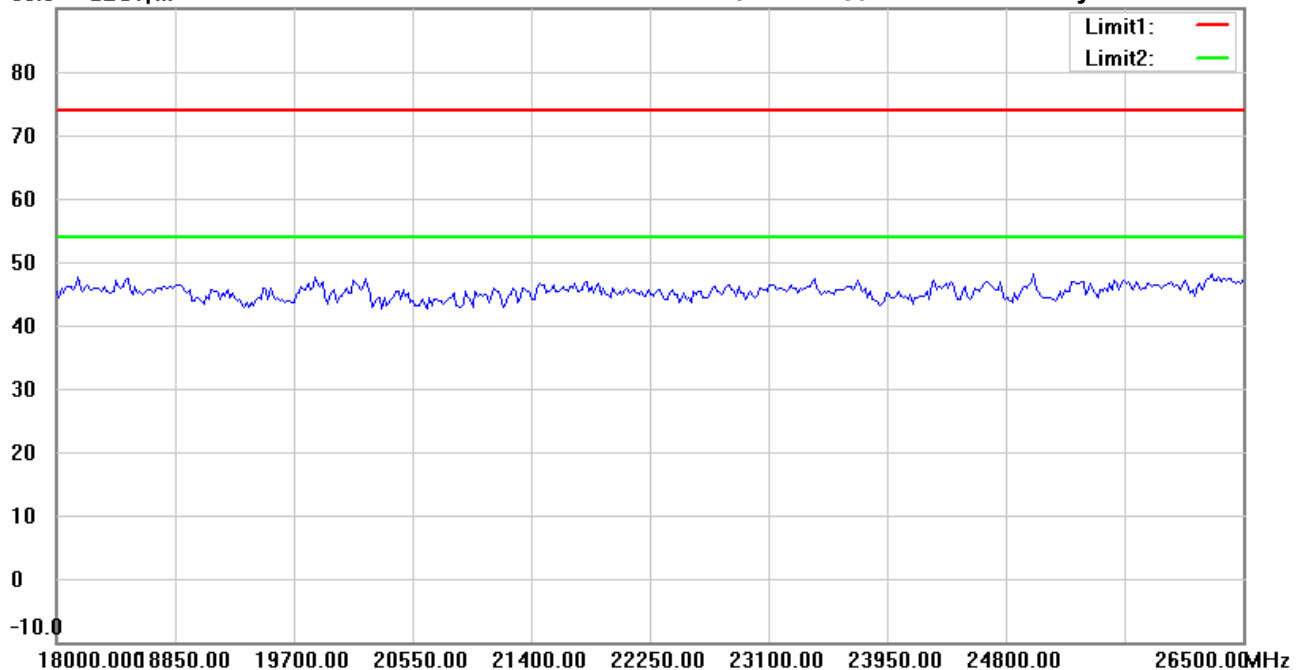
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:47:59 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #1

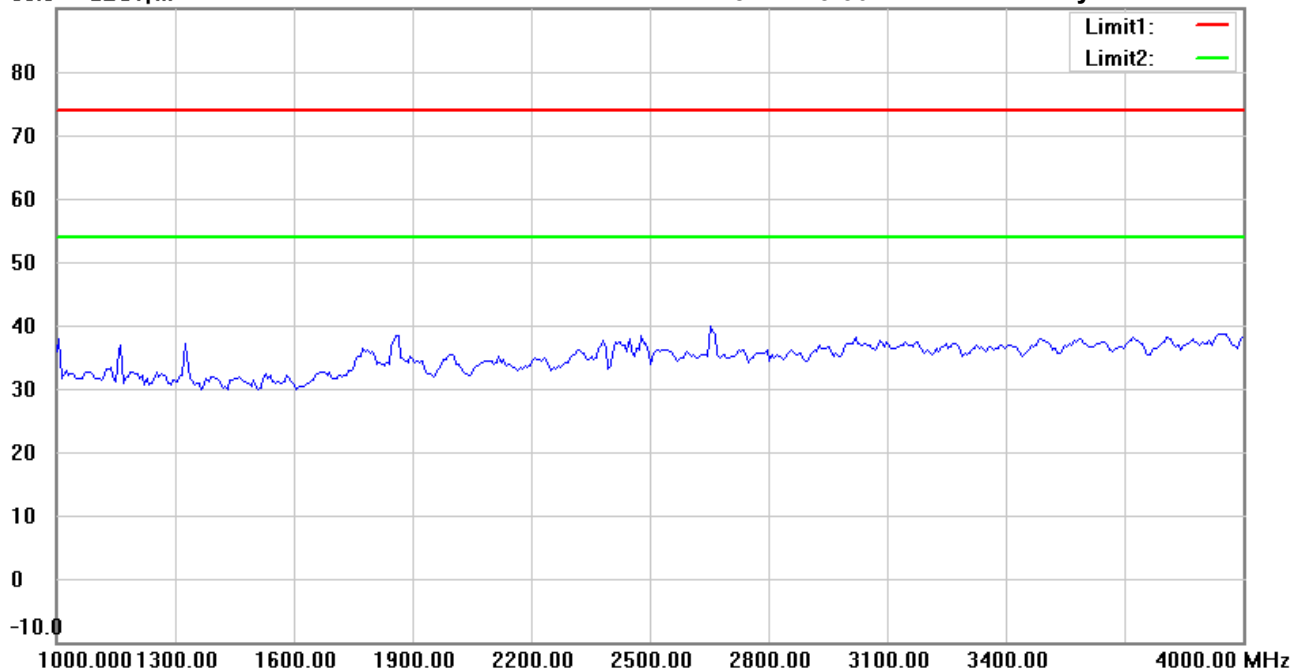
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:25:30 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #6

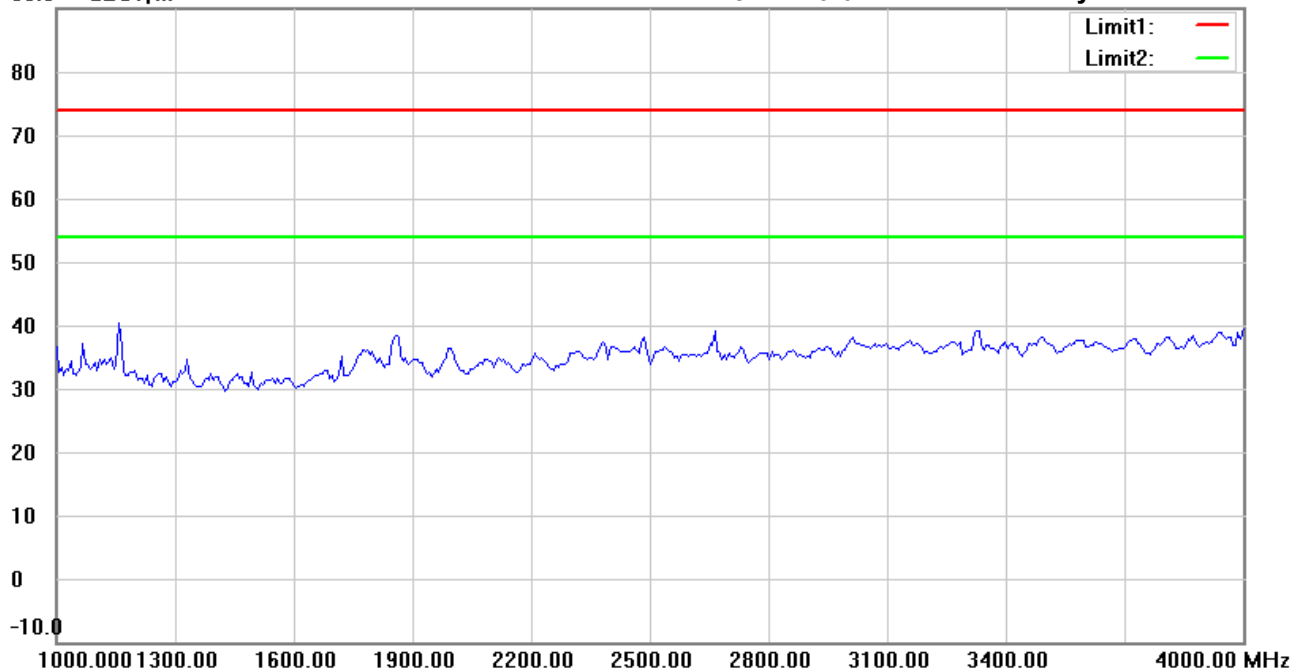
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:29:01 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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





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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #2

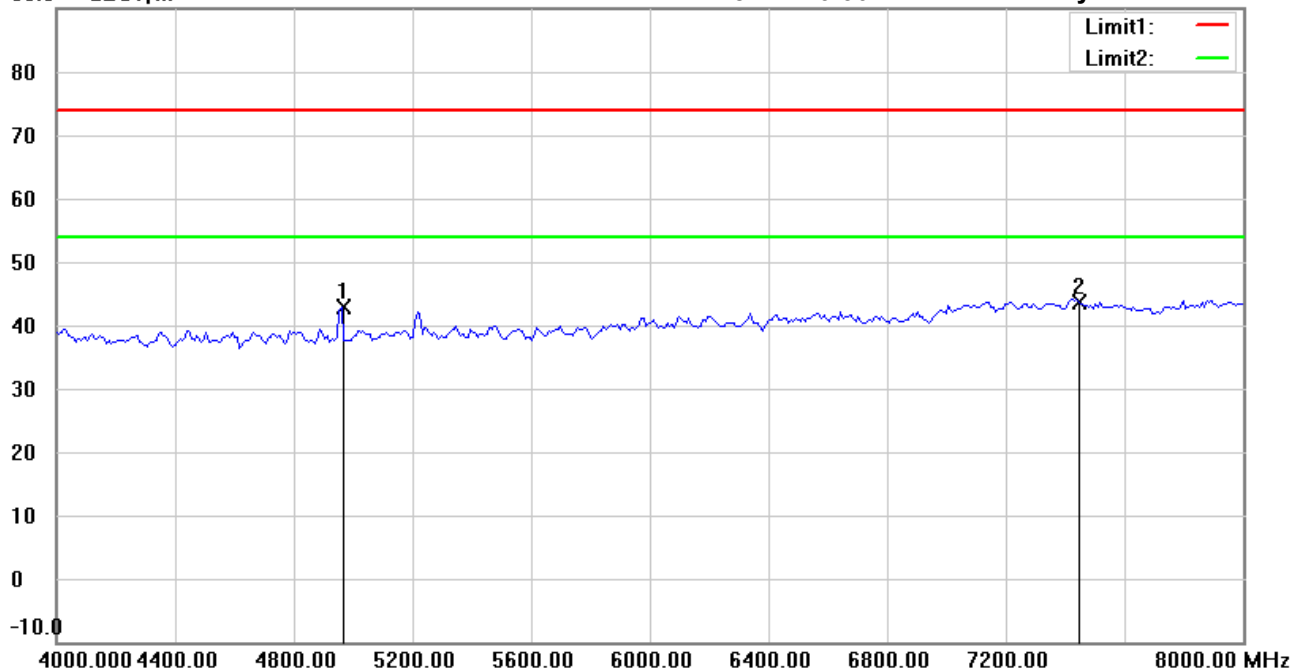
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:26:30 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4961.924        | 44.11          | peak     | -1.35               | 42.76           | 74.00          | 150          | 114            | -31.24      |         |
| *   | 7440.000        | 39.83          | peak     | 3.76                | 43.59           | 74.00          | 150          | 219            | -30.41      |         |

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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #7

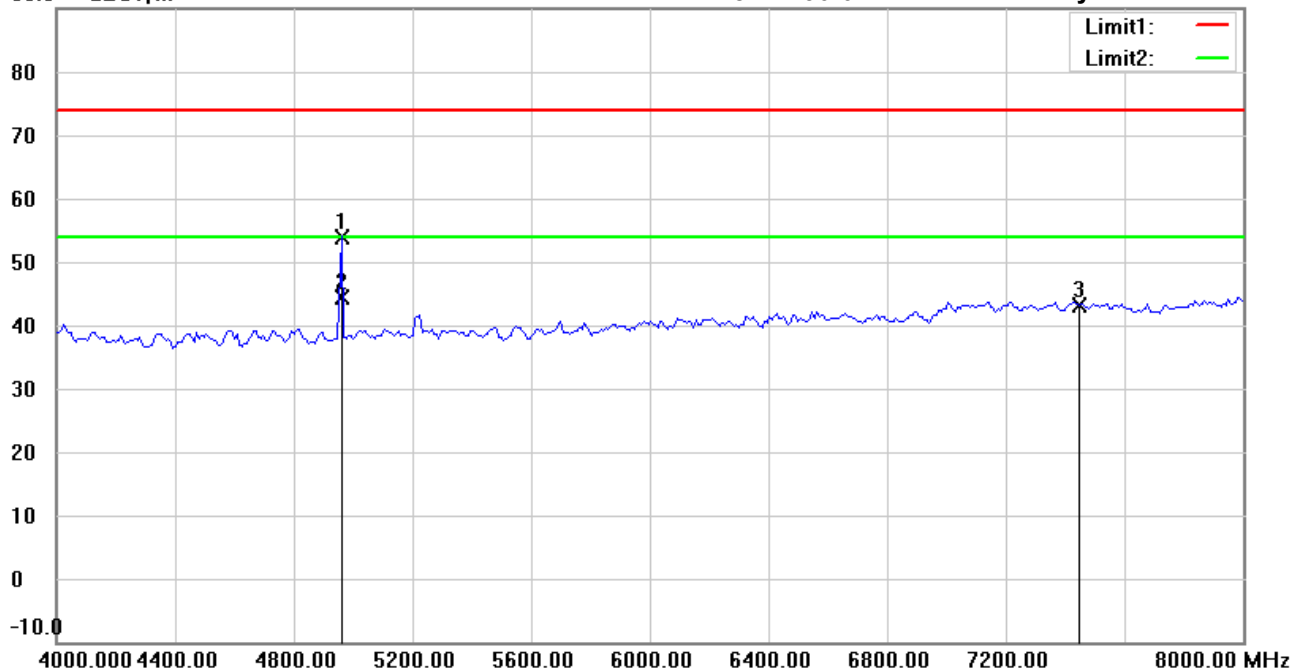
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:30:02 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4960.165        | 55.20          | peak     | -1.36               | 53.84           | 74.00          | 150          | 225            | -20.16      |         |
| *   | 4960.165        | 45.81          | AVG      | -1.36               | 44.45           | 54.00          | 150          | 225            | -9.55       |         |
|     | 7440.000        | 39.42          | peak     | 3.76                | 43.18           | 74.00          | 150          | 114            | -30.82      |         |

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



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# Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

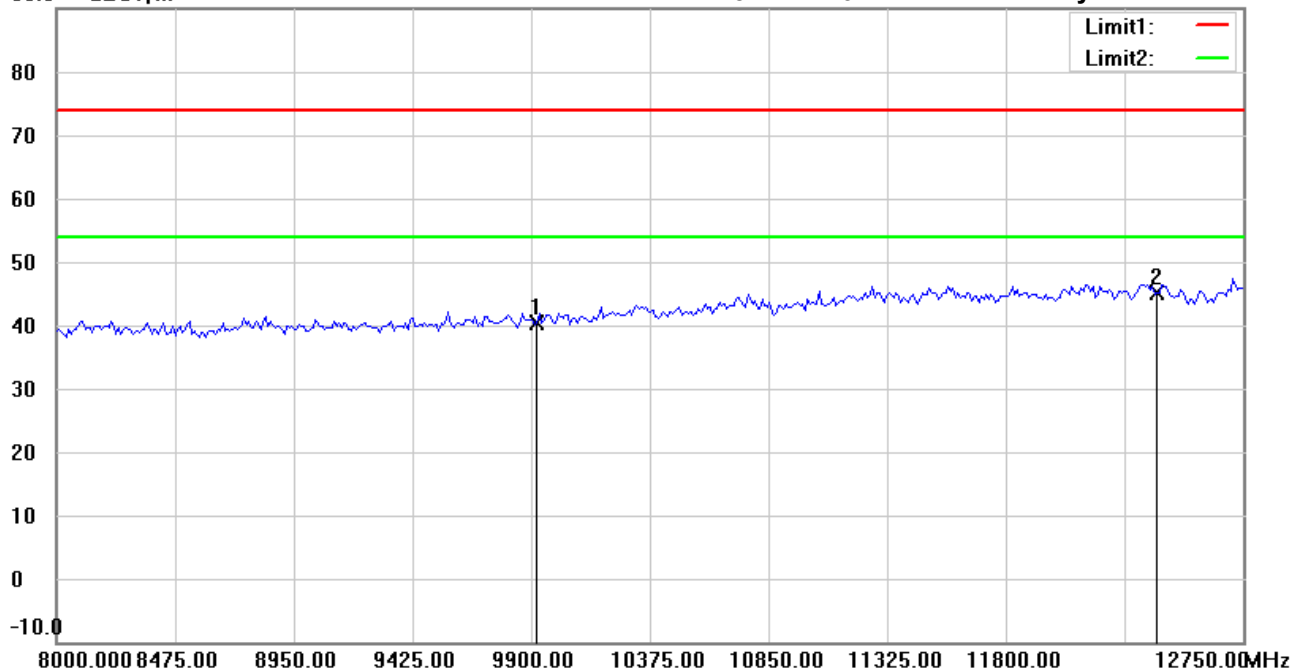
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:27:37 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 33.12          | peak     | 7.23                | 40.35           | 74.00          | 150          | 99             | -33.65      |         |
| *   | 12400.000       | 32.24          | peak     | 12.81               | 45.05           | 74.00          | 150          | 174            | -28.95      |         |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

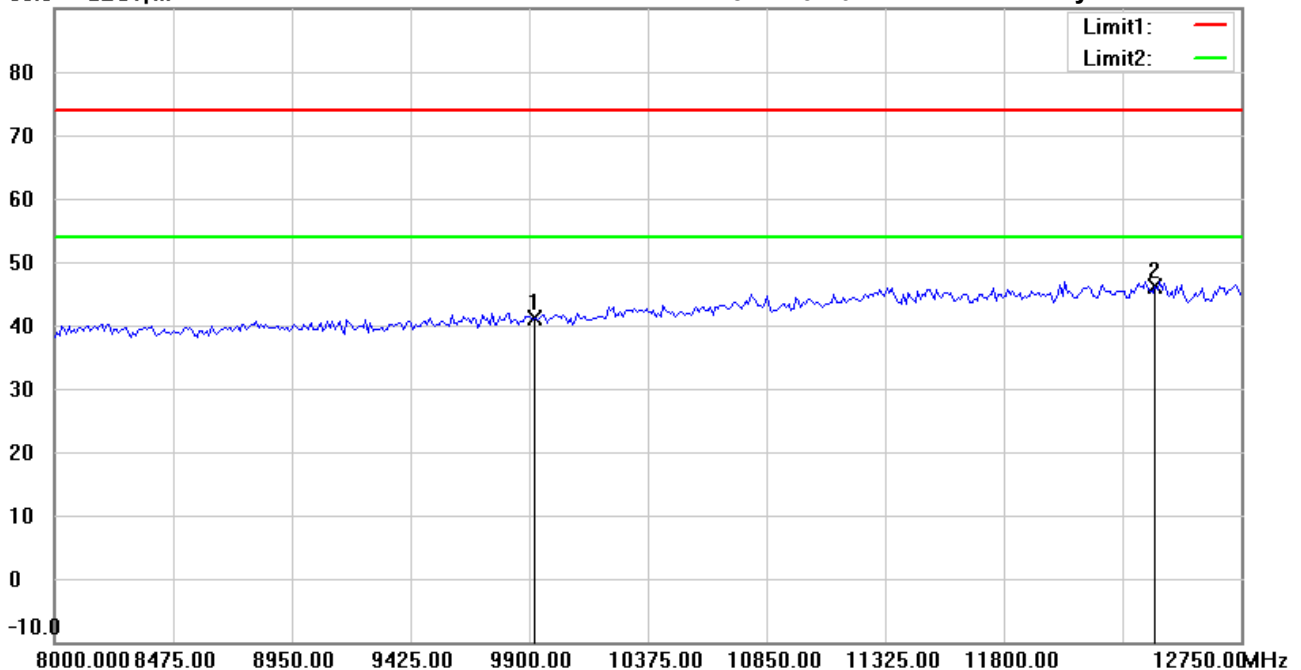
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:31:01 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 33.96          | peak     | 7.23                | 41.19           | 74.00          | 150          | 90             | -32.81      |         |
| *   | 12400.000       | 33.29          | peak     | 12.81               | 46.10           | 74.00          | 150          | 148            | -27.90      |         |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

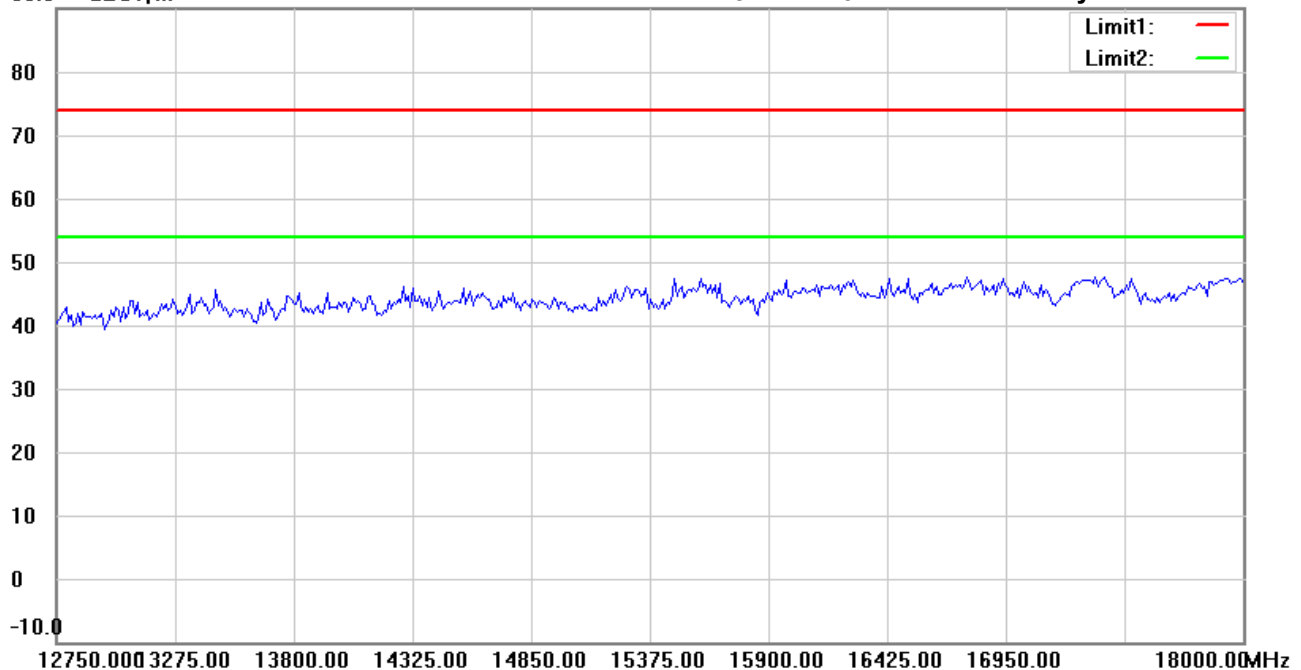
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:27:51 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Vincent

File : 3

Data : #9

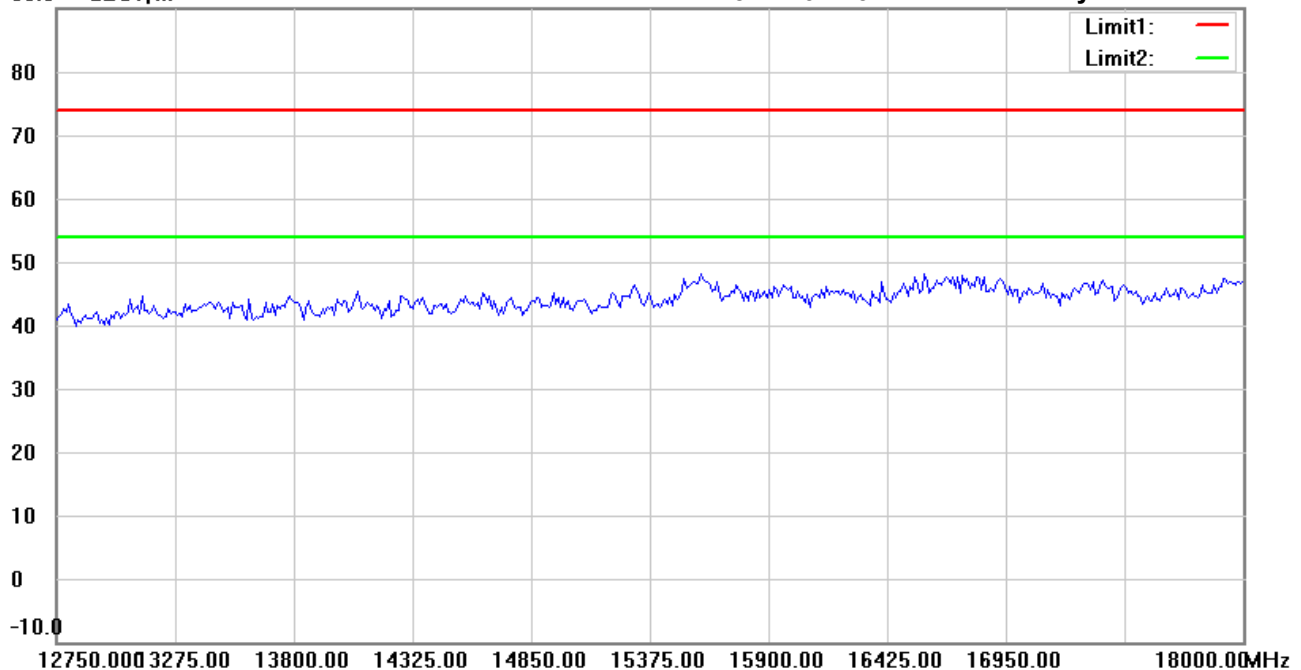
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:31:15 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 3.7 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: 6F., No. 58, Ln 188, Ruey Kuang Rd, Nei-hu, Taipei  
Tel: +886-2-6606-8877  
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

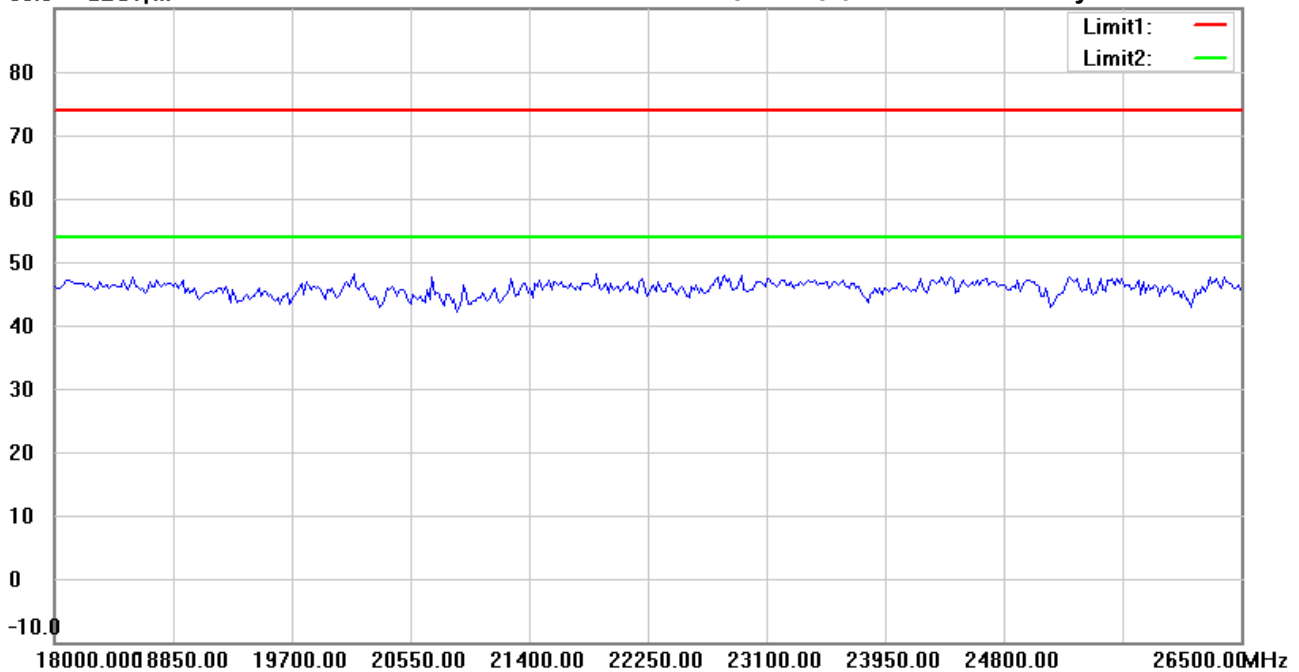
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:28:01 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

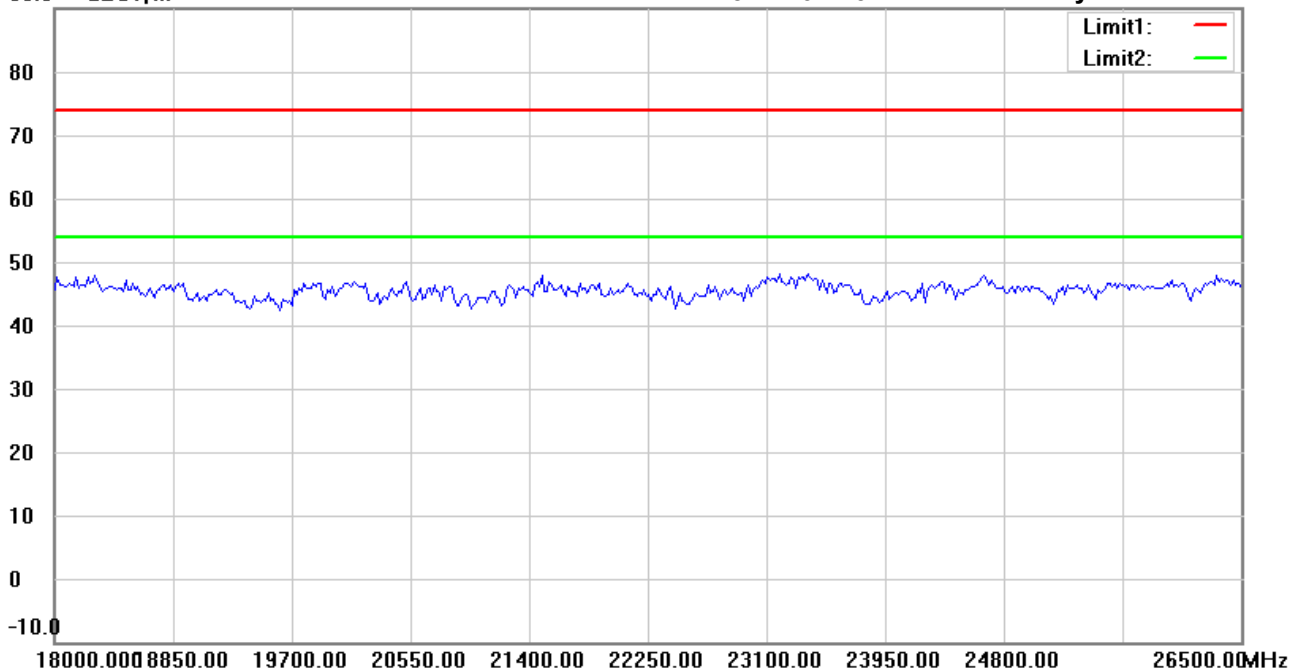
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 11:31:25 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 3.7 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





## Radiated Emission Measurement

Operator: Vincent

File : 1\_BLE\_TX 2402MHz

Data : #1

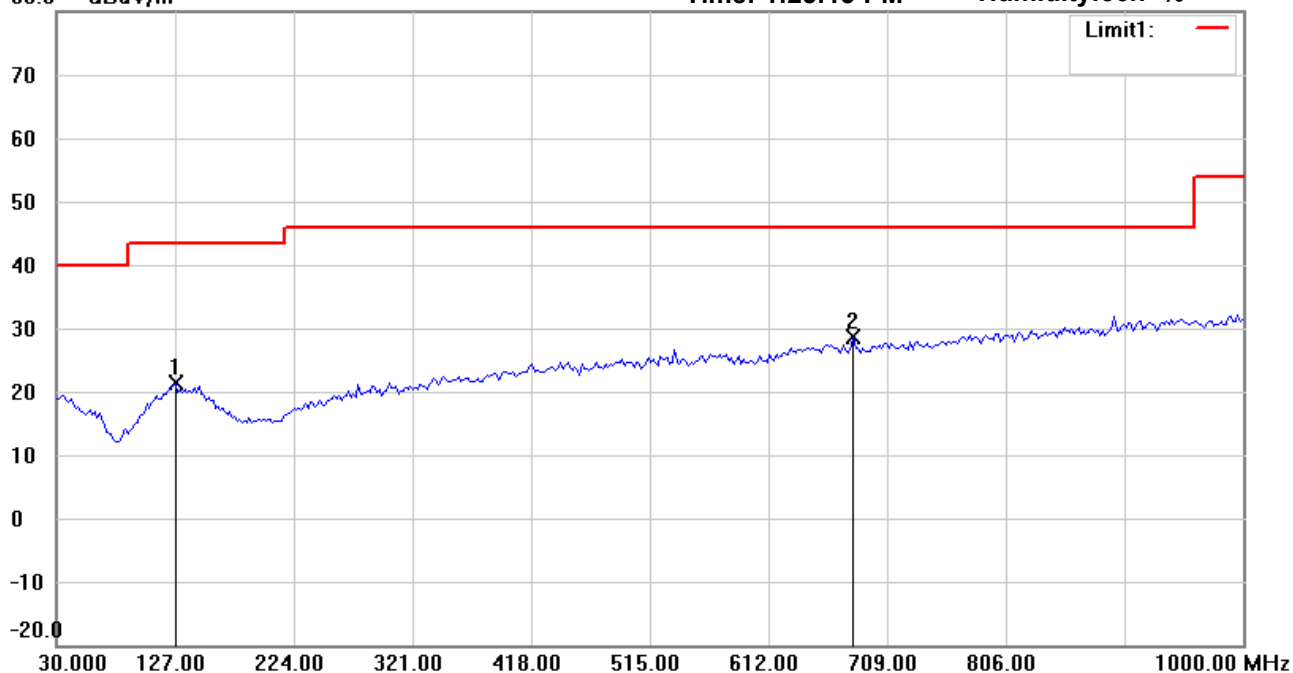
Date: 4/8/2021

Temperature: 24.5 °C

80.0 dBuV/m

Time: 1:25:13 PM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 127.1944        | 28.33          | peak     | -6.96               | 21.37           | 43.50          | 100          | 265            | -22.13      |         |
| *   | 681.2024        | 28.86          | peak     | -0.17               | 28.69           | 46.00          | 100          | 118            | -17.31      |         |



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Radiated Emission Measurement

Operator: Vincent

File : 1\_BLE\_TX 2402MHz

Data : #2

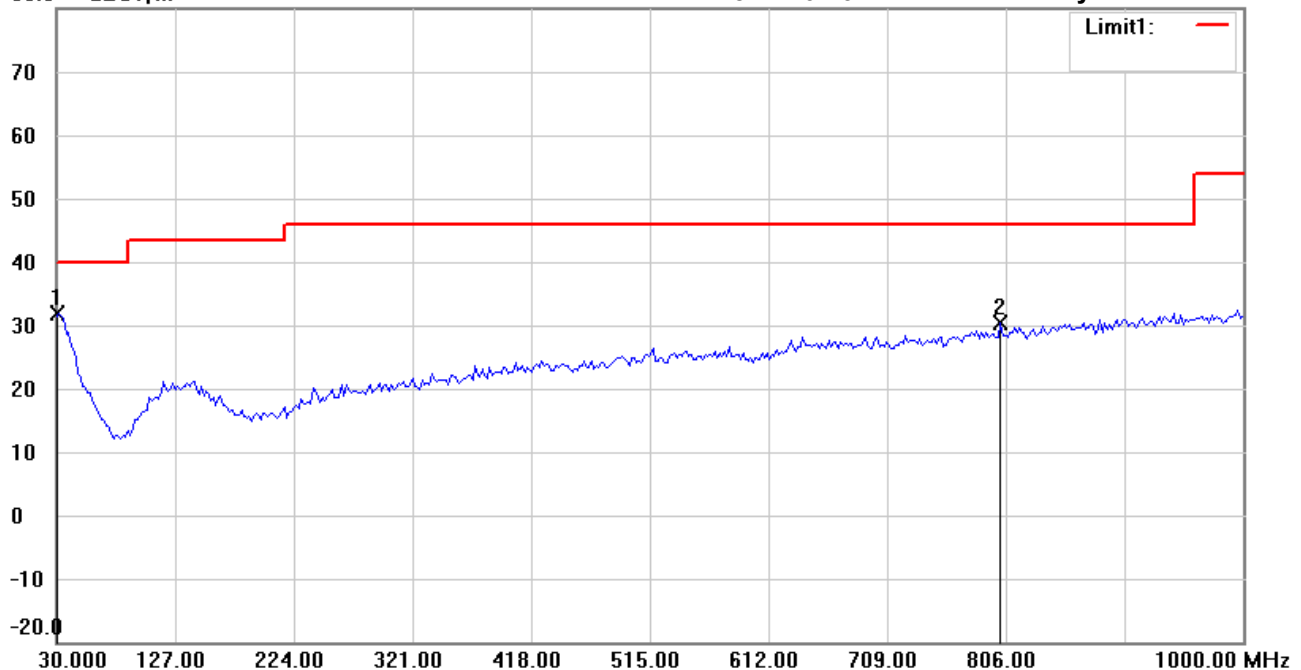
Date: 4/8/2021

Temperature: 24.5 °C

80.0 dBuV/m

Time: 1:26:13 PM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| *   | 31.9438         | 40.35          | peak     | -8.46               | 31.89           | 40.00          | 116          | 30             | -8.11       |         |
|     | 801.7233        | 28.59          | peak     | 1.69                | 30.28           | 46.00          | 100          | 265            | -15.72      |         |

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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

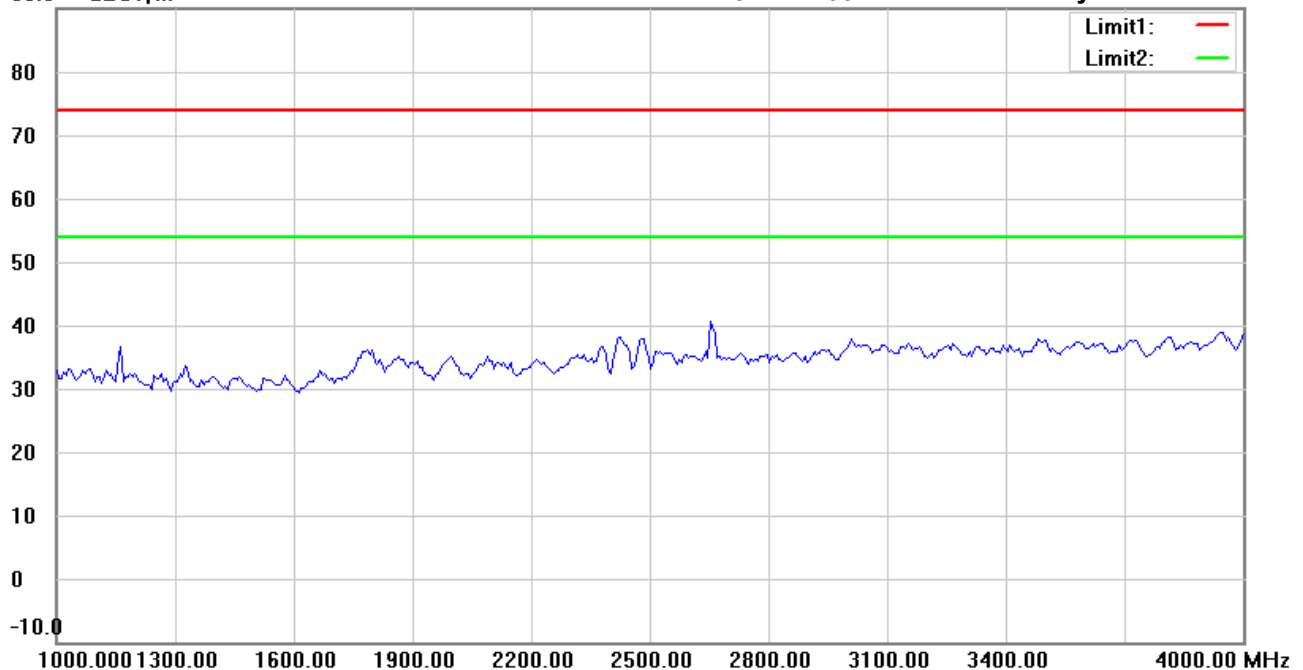
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:41:33 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#6

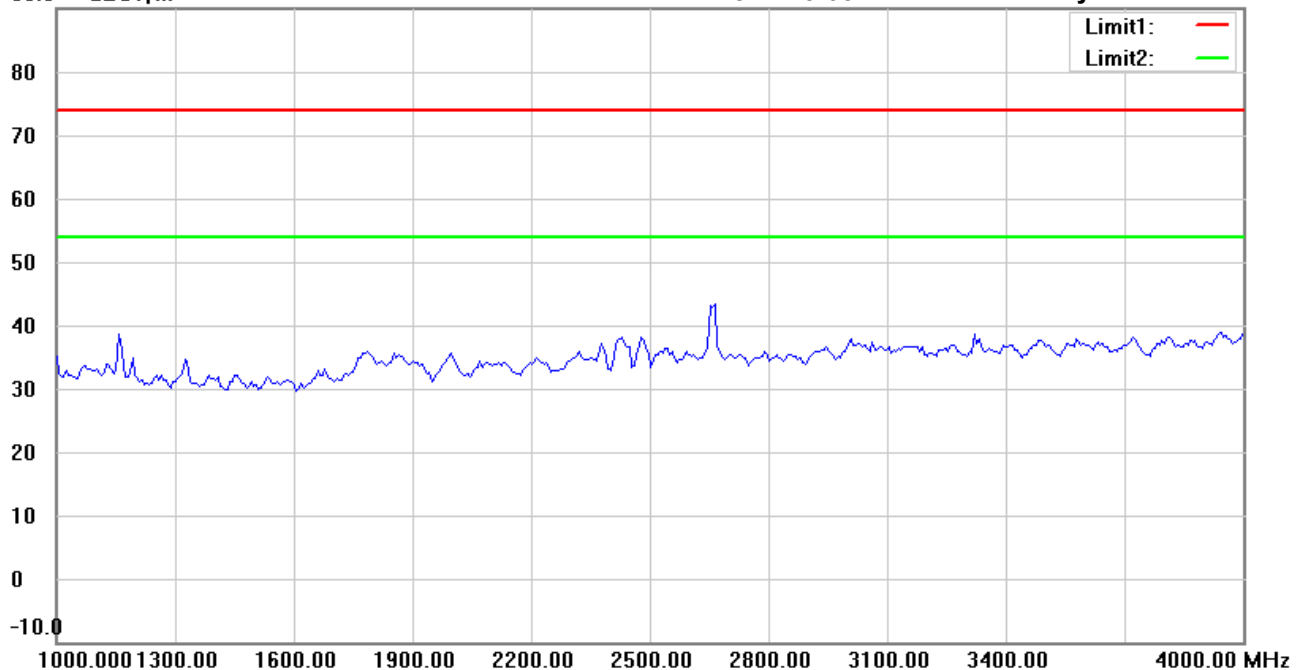
Date: 4/8/2021

Temperature:24.5 °C

90.0 dBuV/m

Time: 4:45:05 AM

Humidity:56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#2

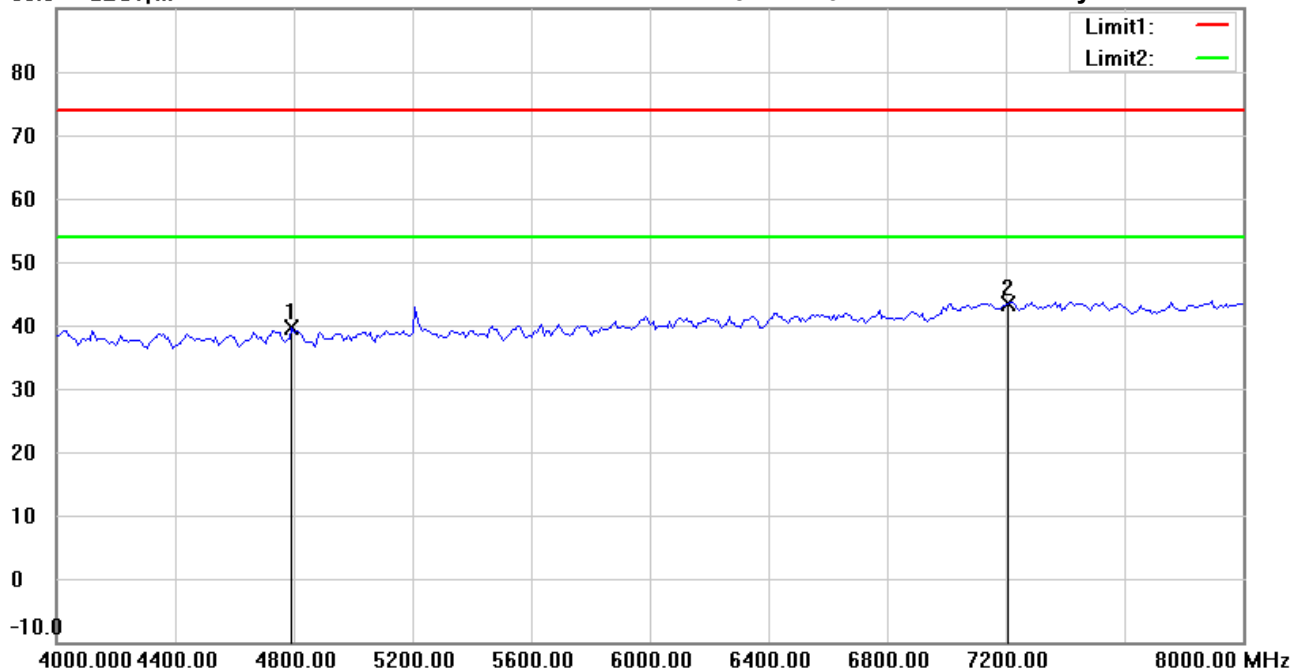
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:42:34 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4793.587        | 41.47          | peak     | -1.80               | 39.67           | 74.00          | 150          | 252            | -34.33      |         |
| *   | 7206.000        | 39.97          | peak     | 3.32                | 43.29           | 74.00          | 150          | 48             | -30.71      |         |

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



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

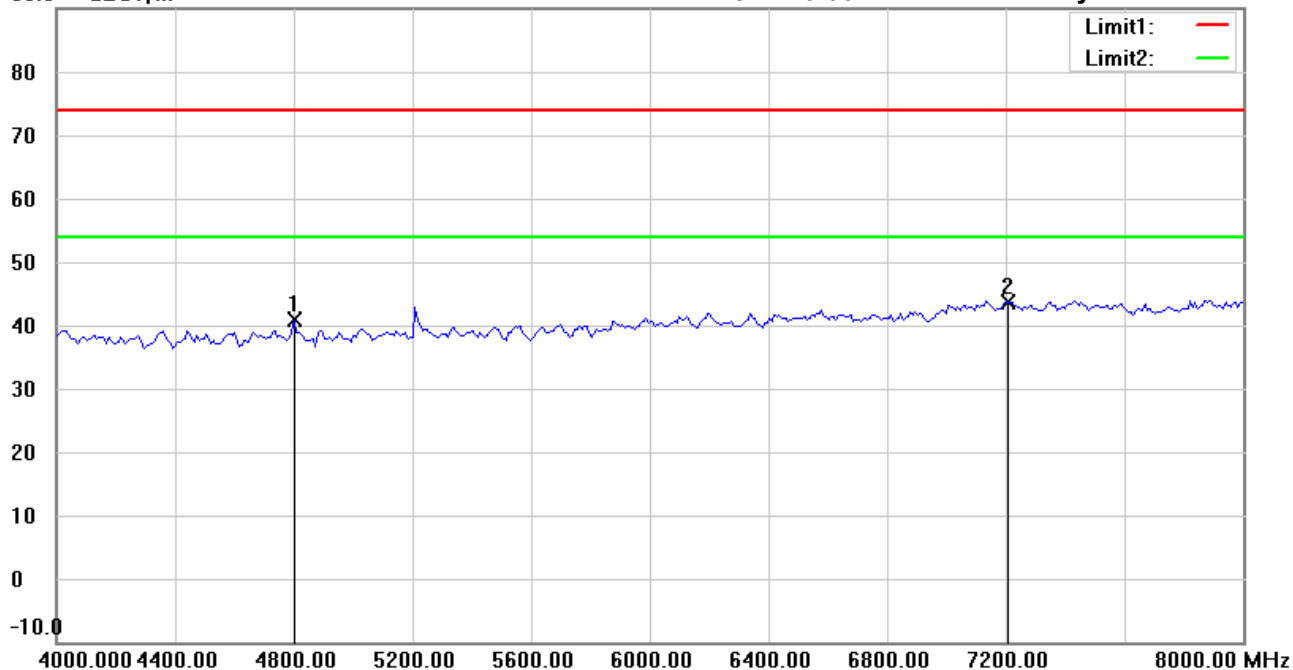
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:46:06 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4801.603        | 42.68          | peak     | -1.76               | 40.92           | 74.00          | 150          | 50             | -33.08      |         |
| *   | 7206.000        | 40.26          | peak     | 3.32                | 43.58           | 74.00          | 150          | 119            | -30.42      |         |

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



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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

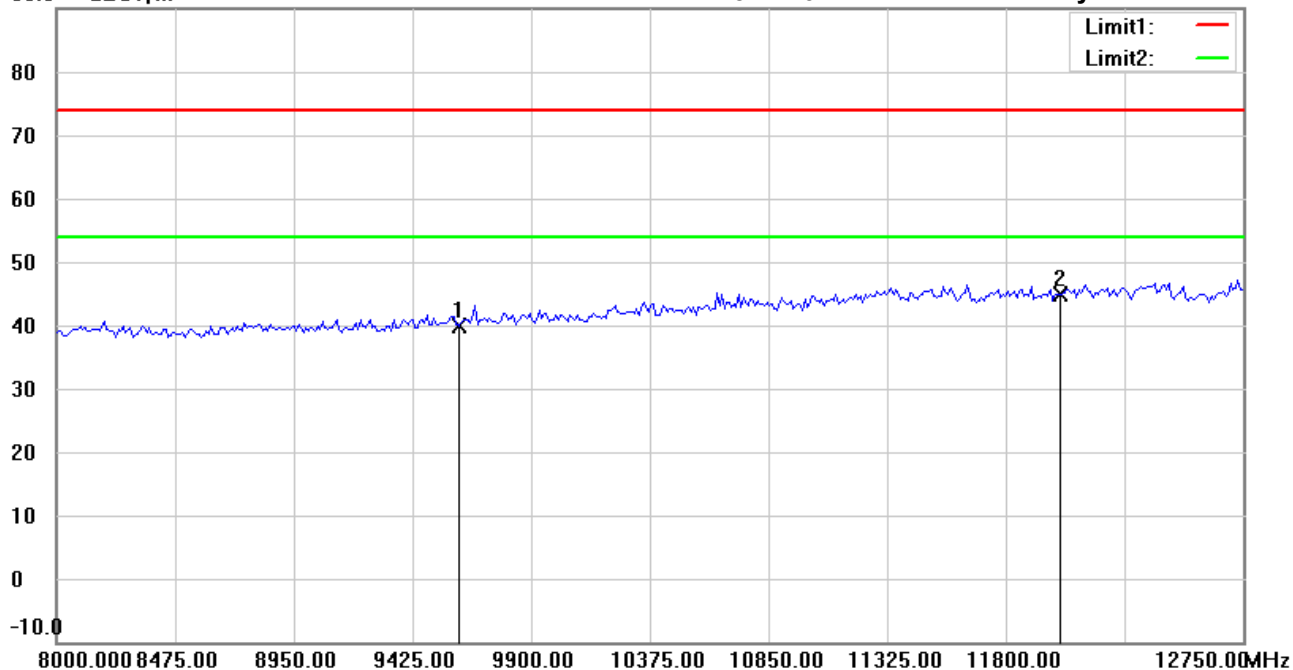
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:43:41 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 33.18          | peak     | 6.70                | 39.88           | 74.00          | 150          | 115            | -34.12      |         |
| *   | 12010.000       | 33.09          | peak     | 11.68               | 44.77           | 74.00          | 150          | 310            | -29.23      |         |

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



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

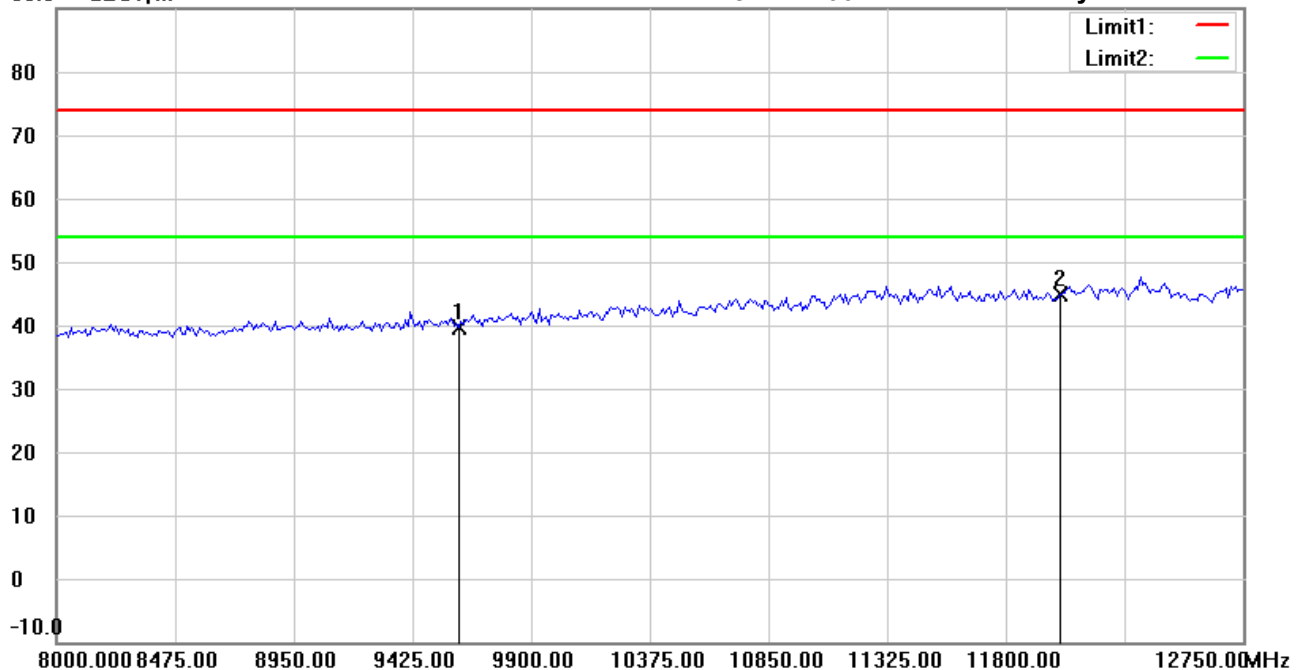
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:47:06 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9608.000        | 32.88          | peak     | 6.70                | 39.58           | 74.00          | 150          | 74             | -34.42      |         |
| *   | 12010.000       | 33.09          | peak     | 11.68               | 44.77           | 74.00          | 150          | 130            | -29.23      |         |

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





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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

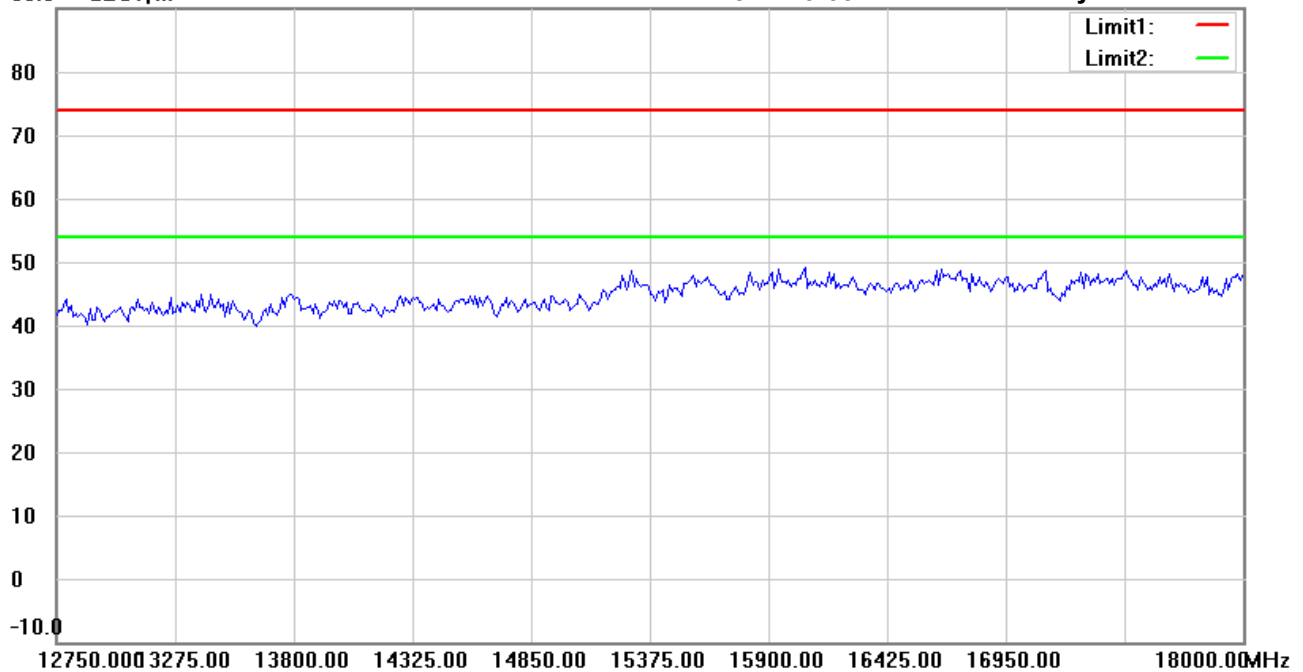
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:43:55 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

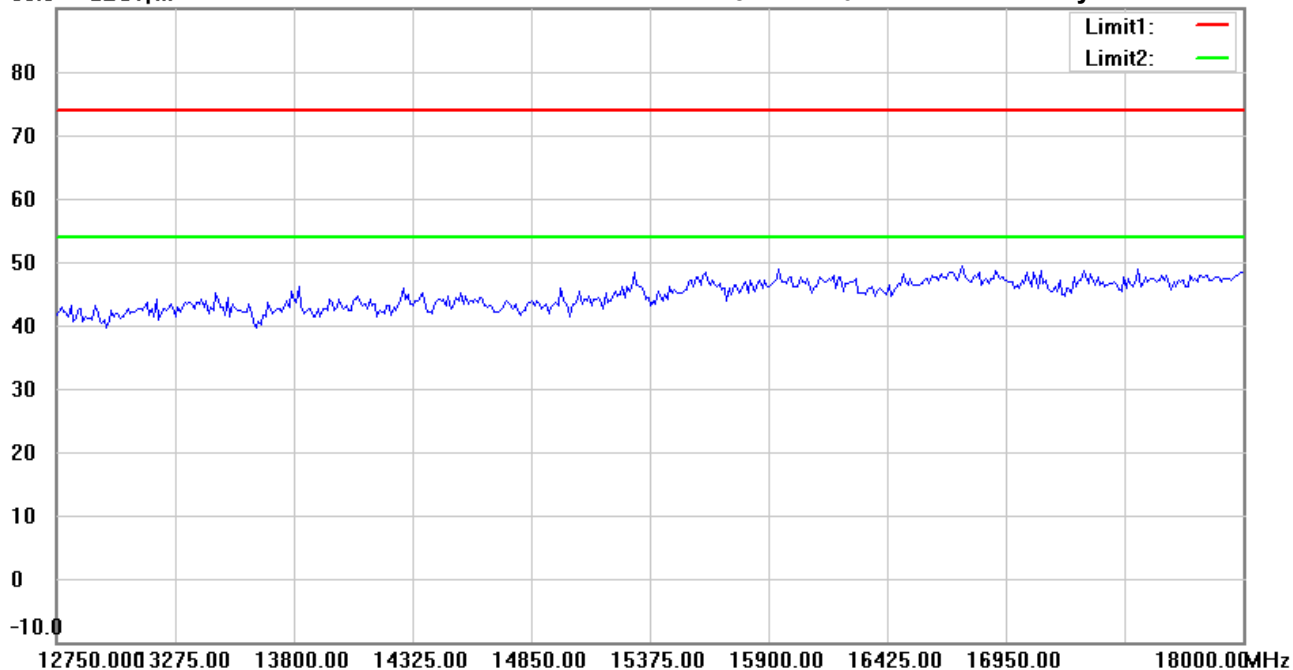
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:47:20 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

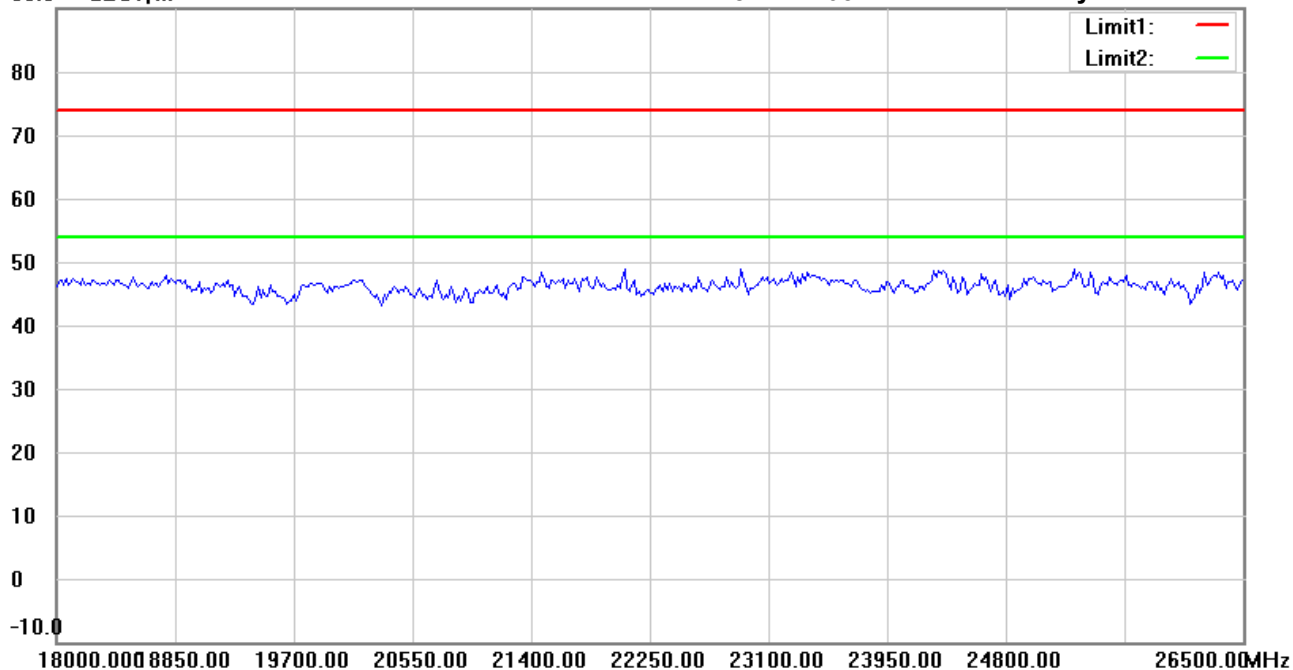
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:44:05 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

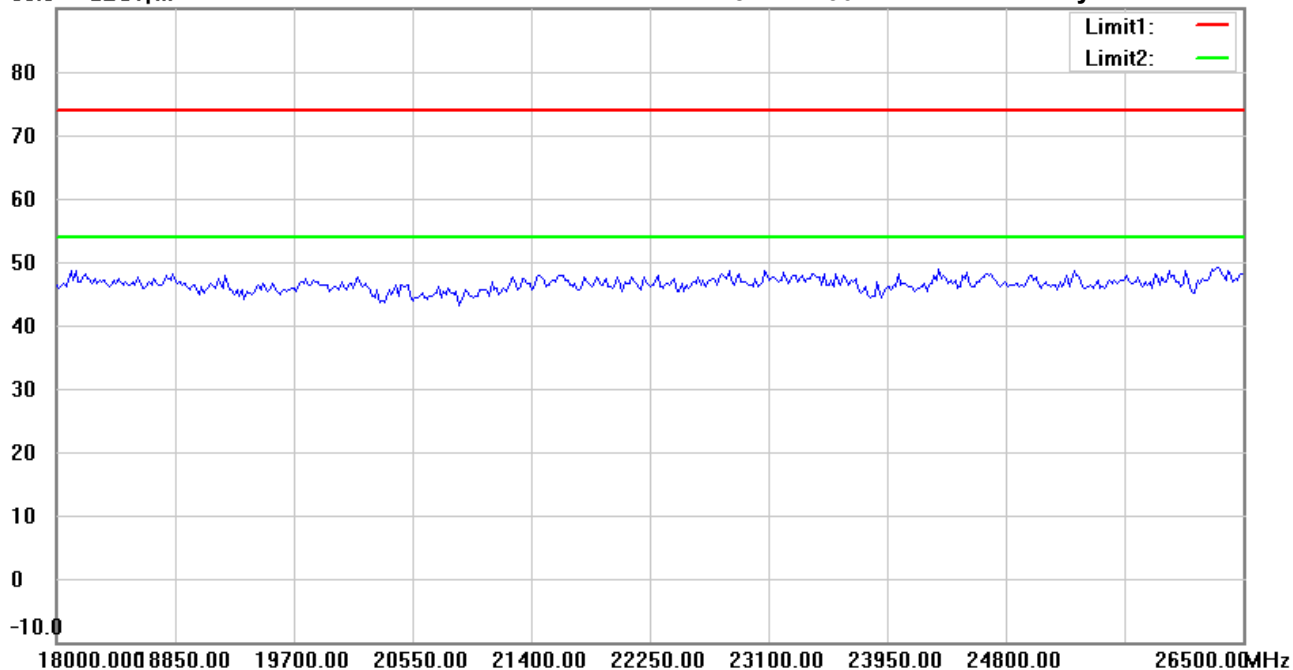
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:47:30 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

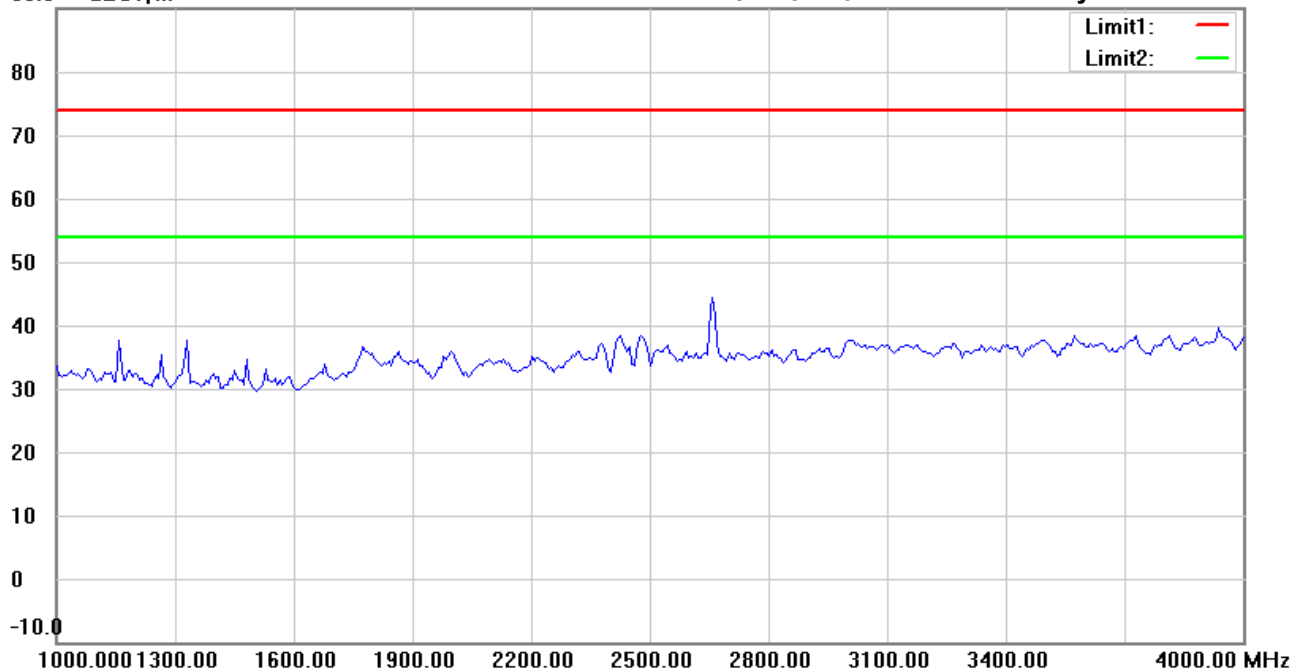
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:54:43 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#6

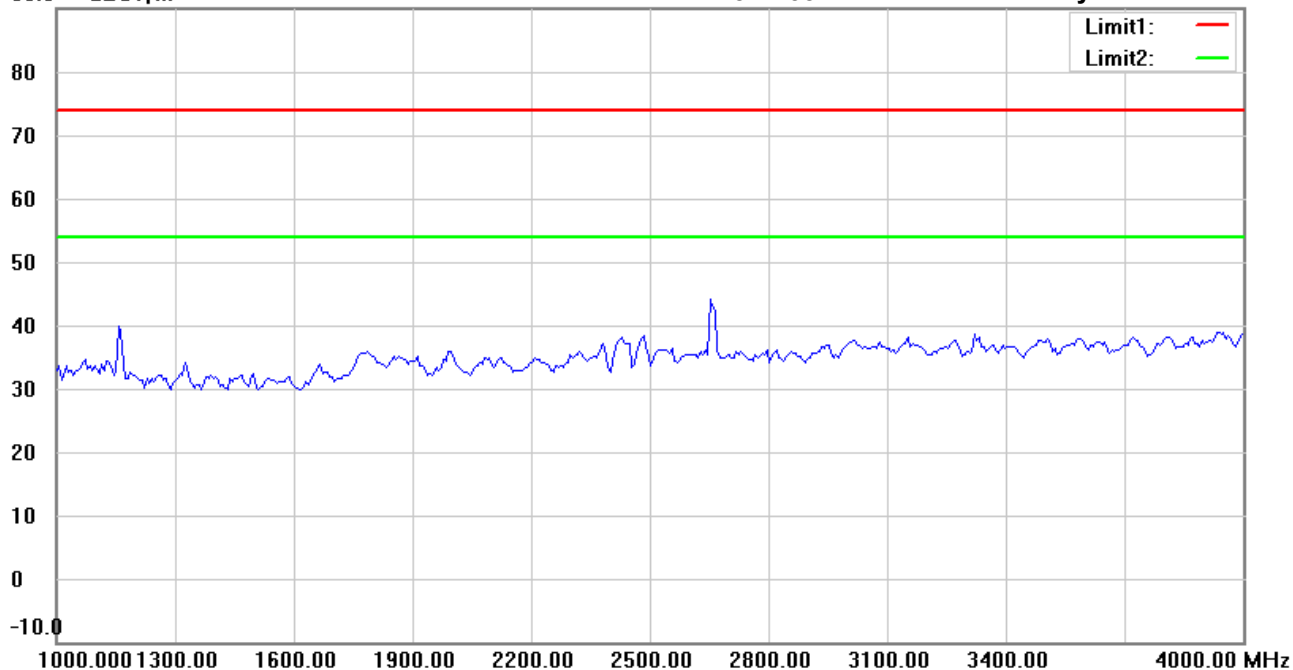
Date: 4/8/2021

Temperature:24.5 °C

90.0 dBuV/m

Time: 4:58:14 AM

Humidity:56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

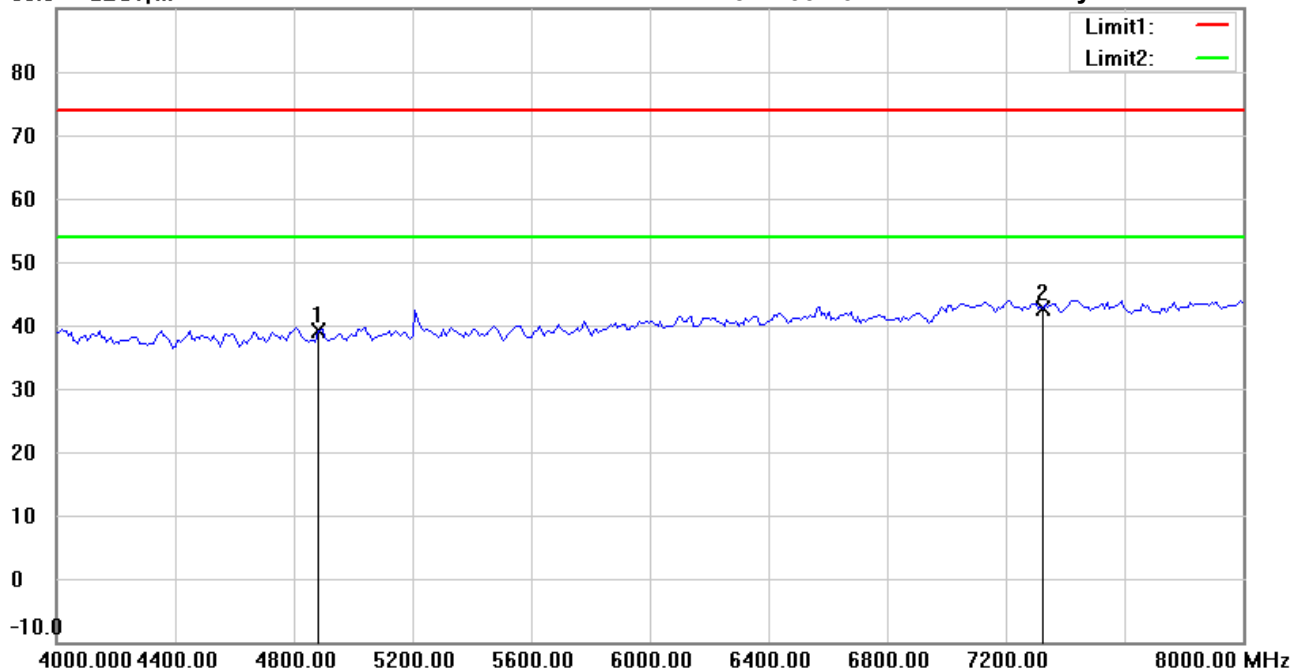
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:55:43 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4880.000        | 40.79          | peak     | -1.60               | 39.19           | 74.00          | 150          | 314            | -34.81      |         |
| *   | 7320.000        | 39.18          | peak     | 3.51                | 42.69           | 74.00          | 150          | 202            | -31.31      |         |

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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

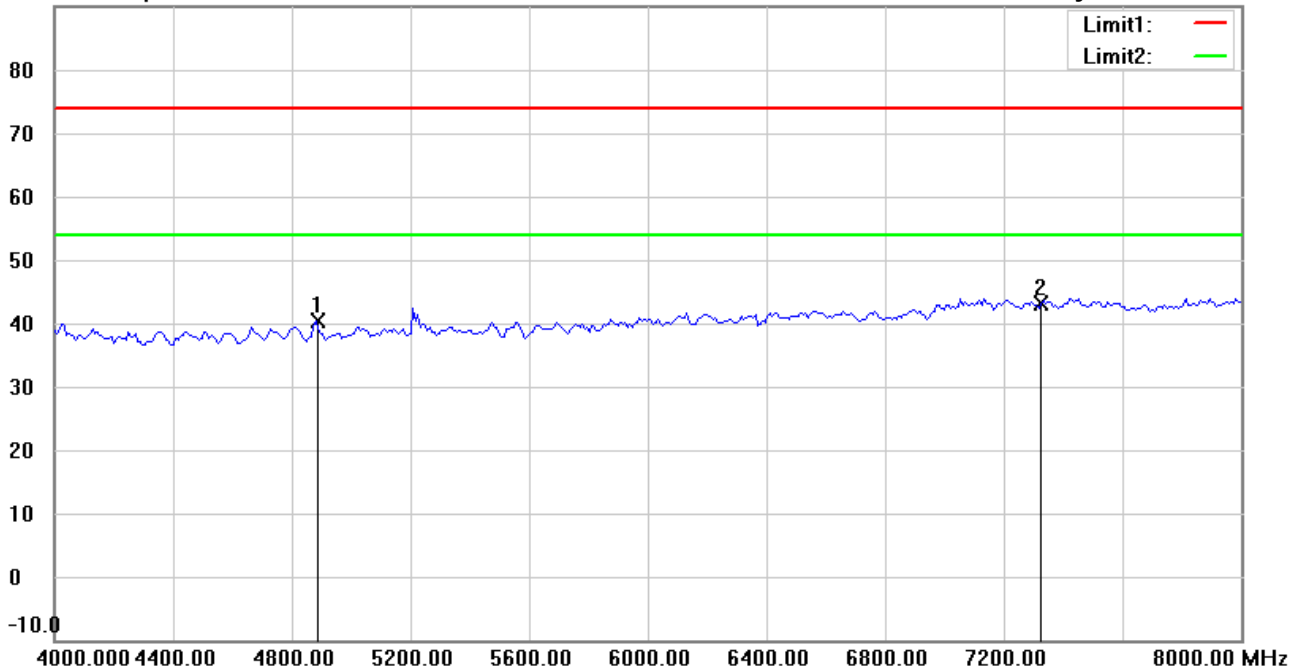
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:59:15 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4881.764        | 42.06          | peak     | -1.60               | 40.46           | 74.00          | 150          | 250            | -33.54      |         |
| *   | 7320.000        | 39.63          | peak     | 3.51                | 43.14           | 74.00          | 150          | 35             | -30.86      |         |

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





Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei  
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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

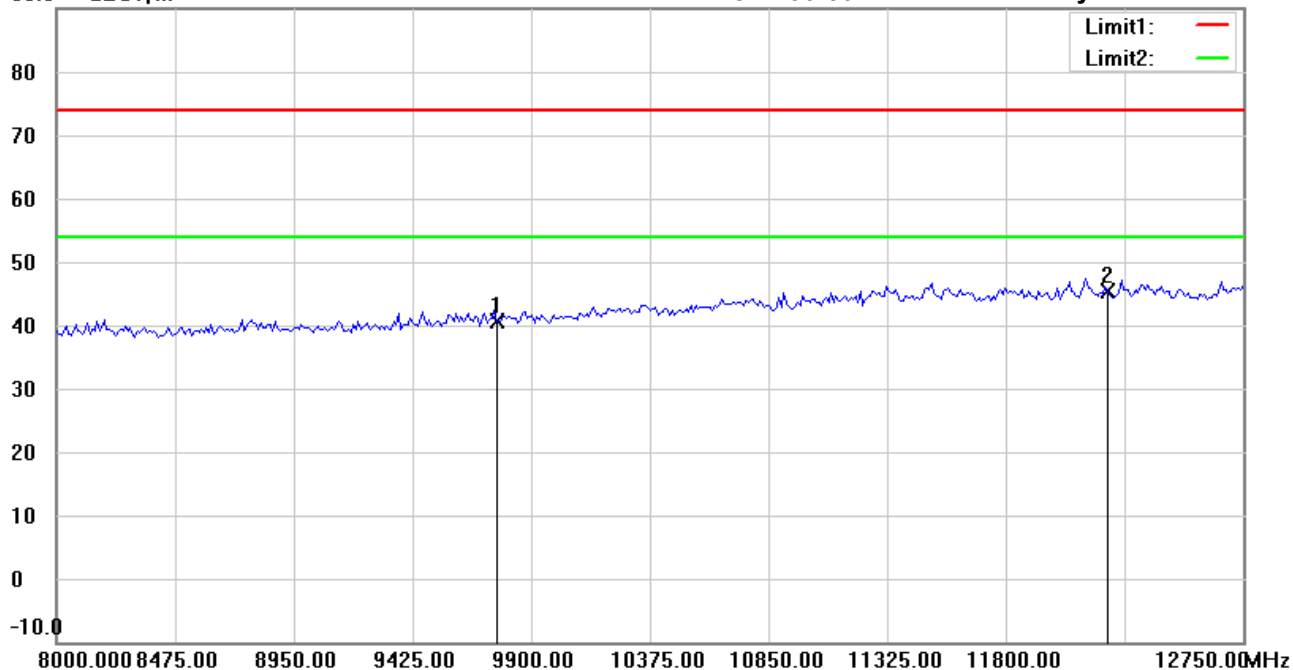
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:56:50 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9760.000        | 33.80          | peak     | 6.84                | 40.64           | 74.00          | 150          | 90             | -33.36      |         |
| *   | 12200.000       | 32.47          | peak     | 13.02               | 45.49           | 74.00          | 150          | 135            | -28.51      |         |

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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

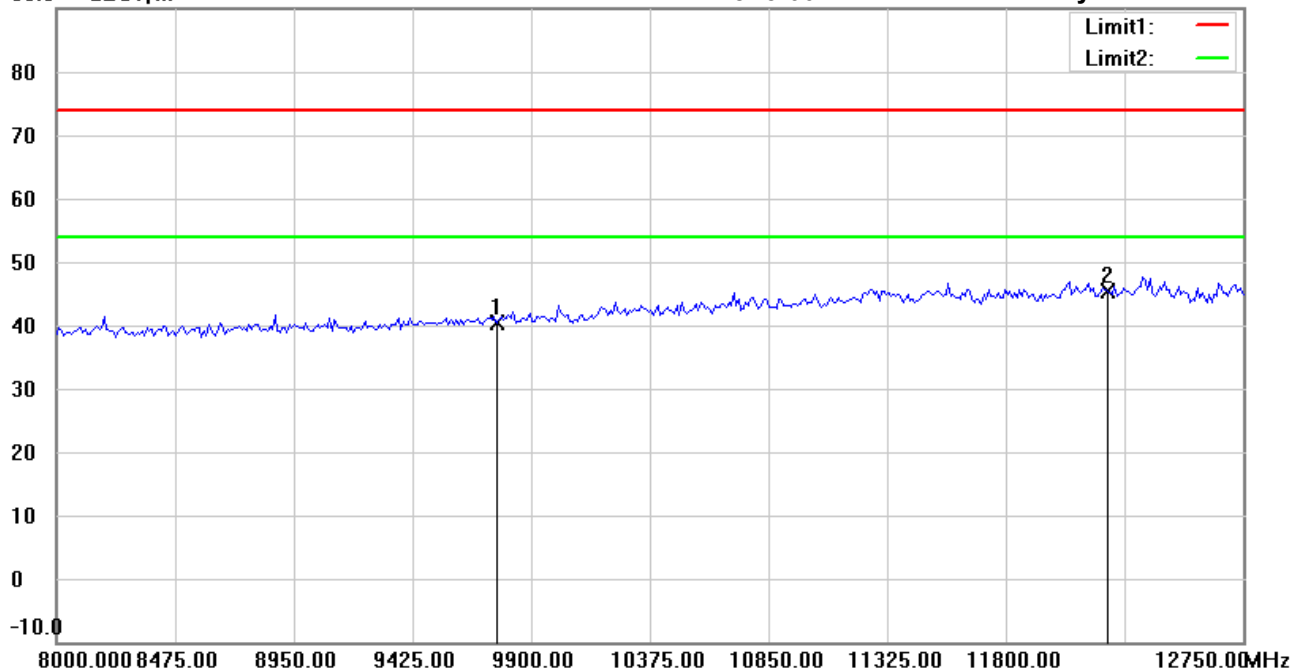
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:00:14 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9760.000        | 33.66          | peak     | 6.84                | 40.50           | 74.00          | 150          | 34             | -33.50      |         |
| *   | 12200.000       | 32.29          | peak     | 13.02               | 45.31           | 74.00          | 150          | 100            | -28.69      |         |

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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

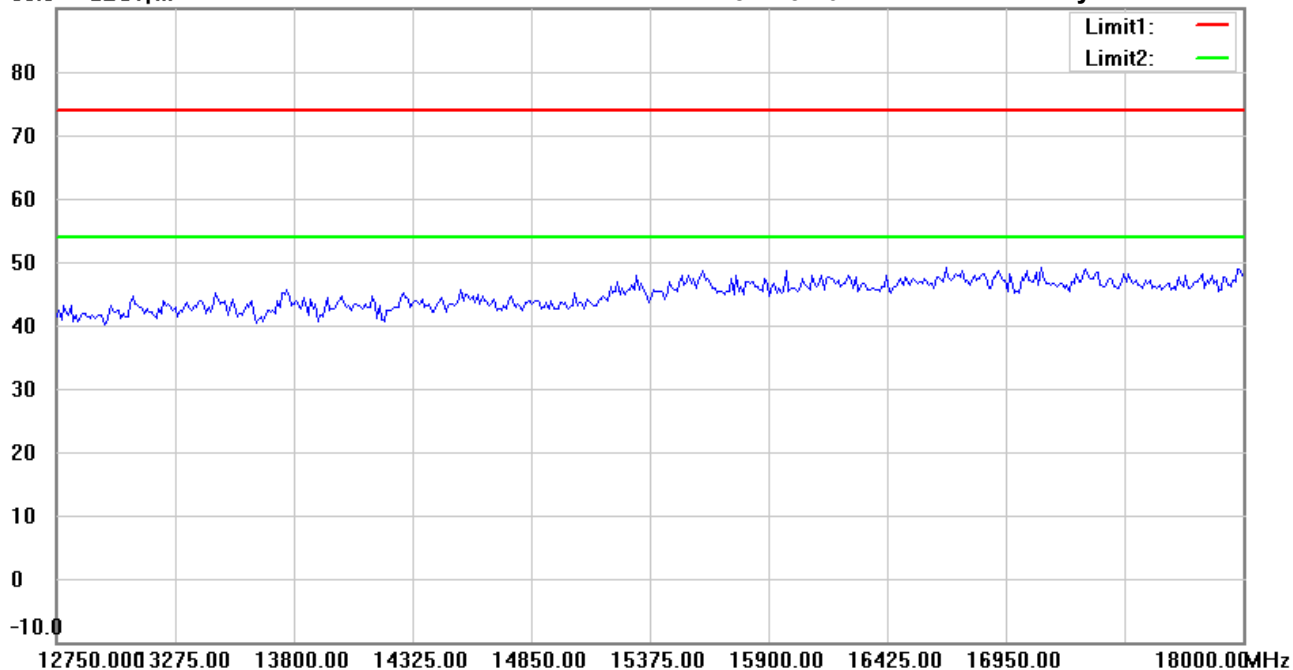
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:57:04 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

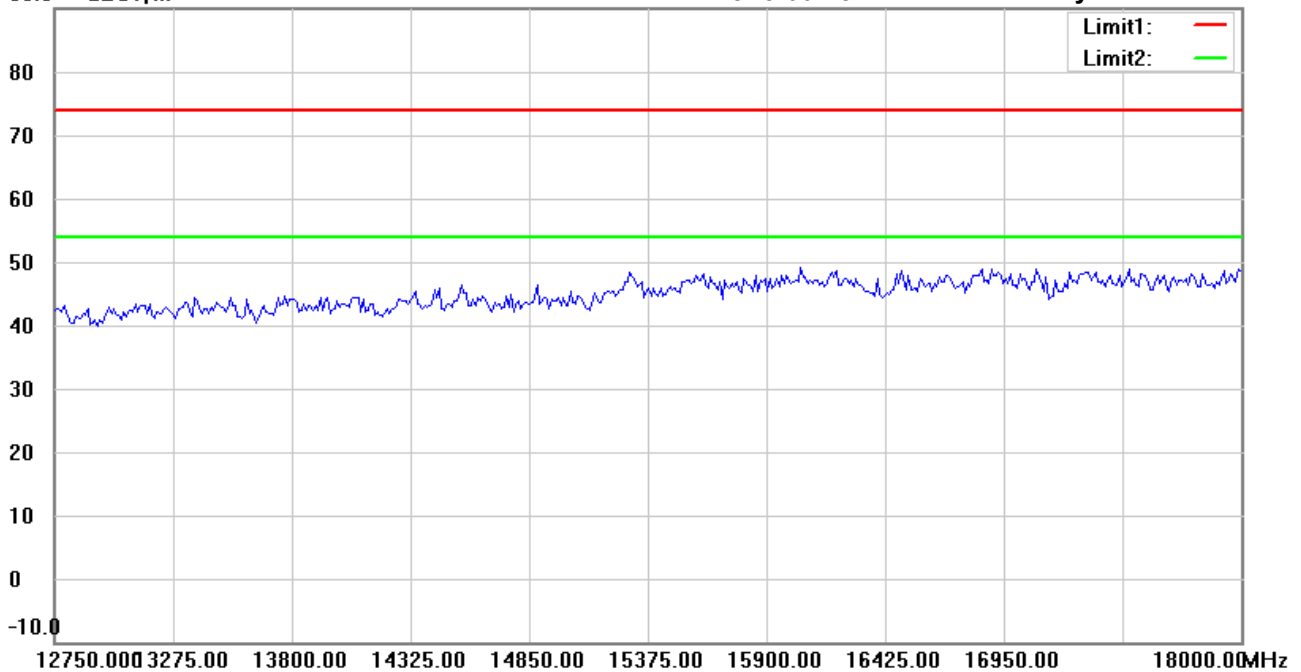
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:00:28 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

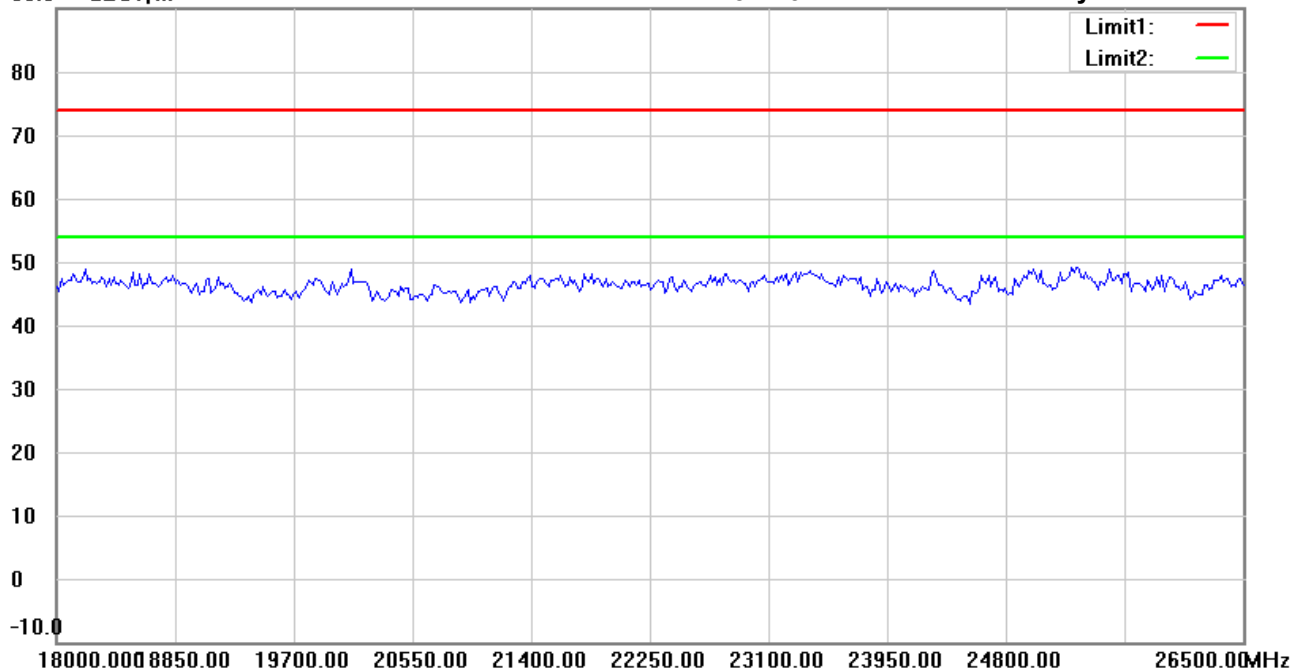
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 4:57:14 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

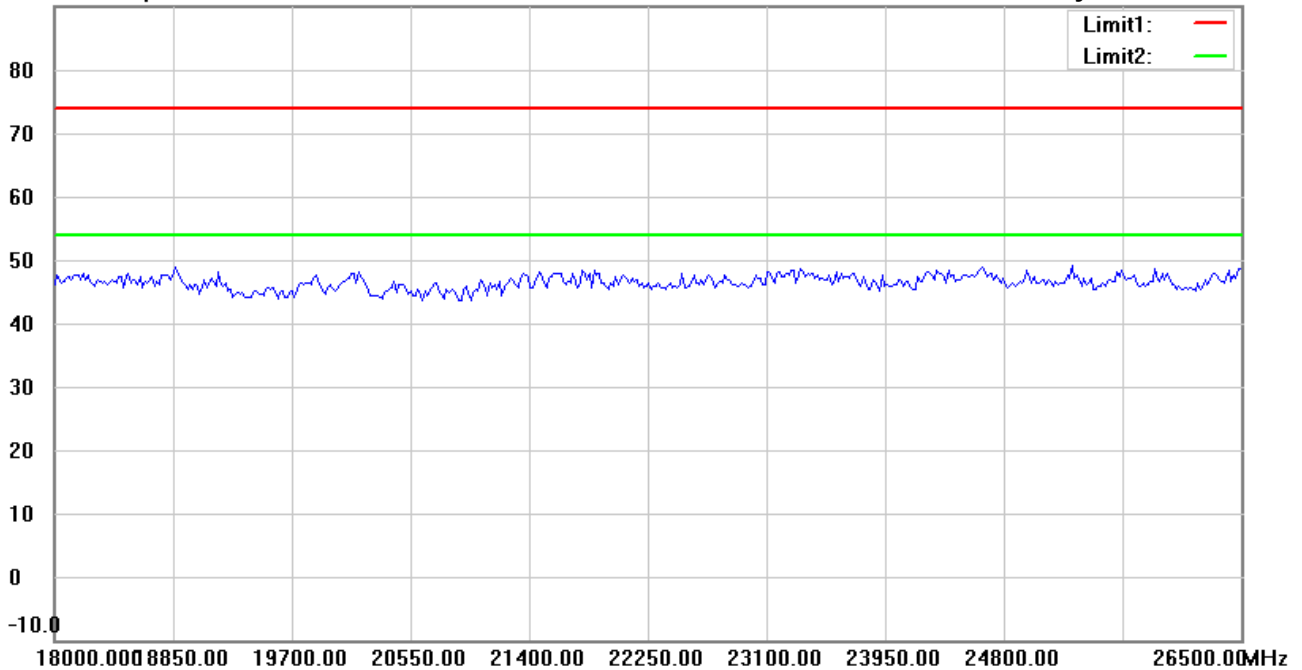
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:00:38 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: Vertical

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

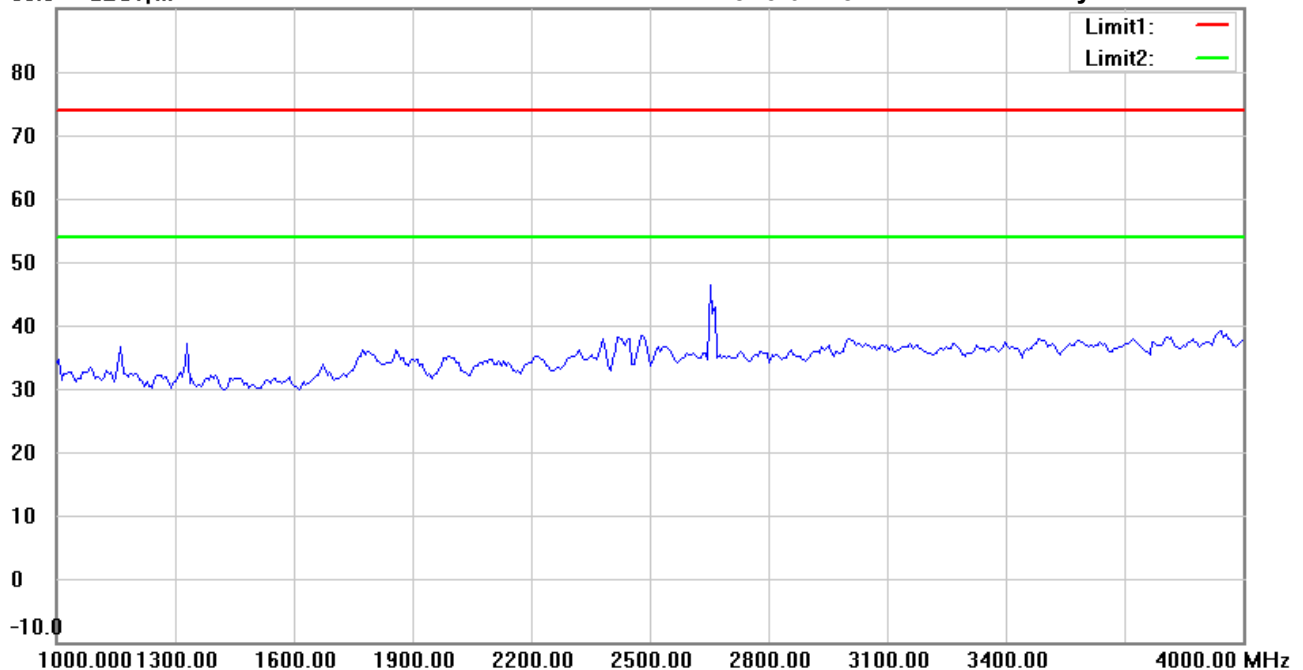
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:04:48 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

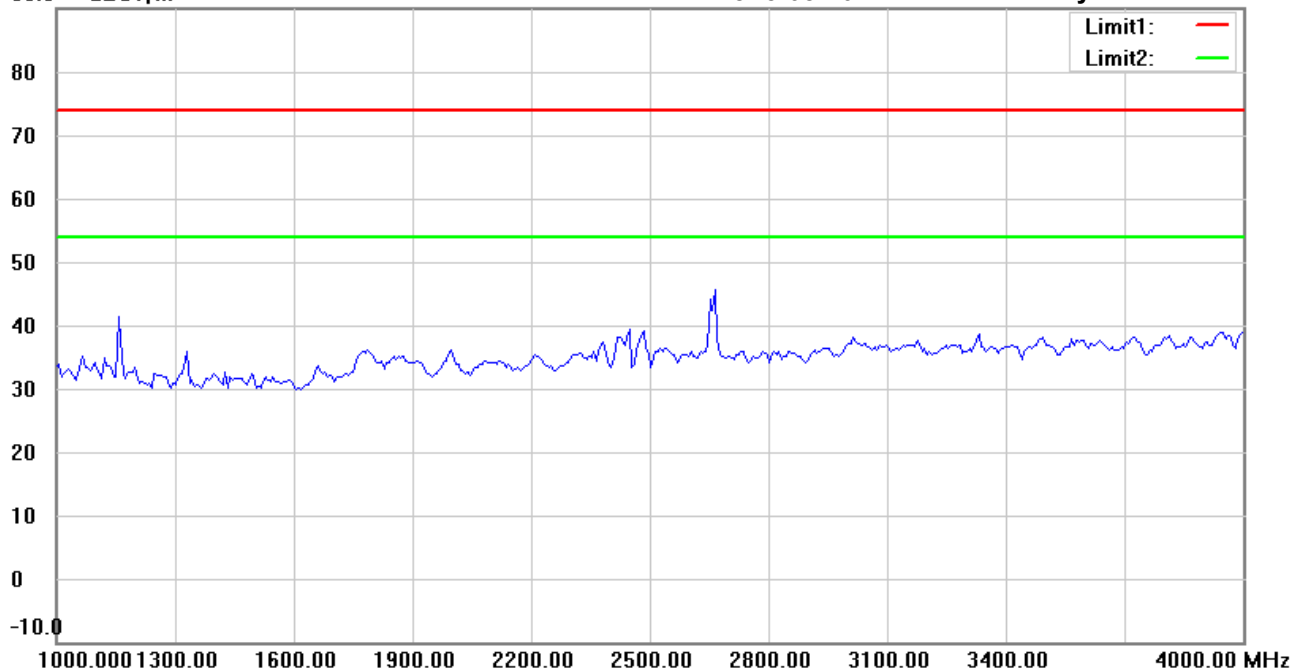
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:08:20 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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





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# Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

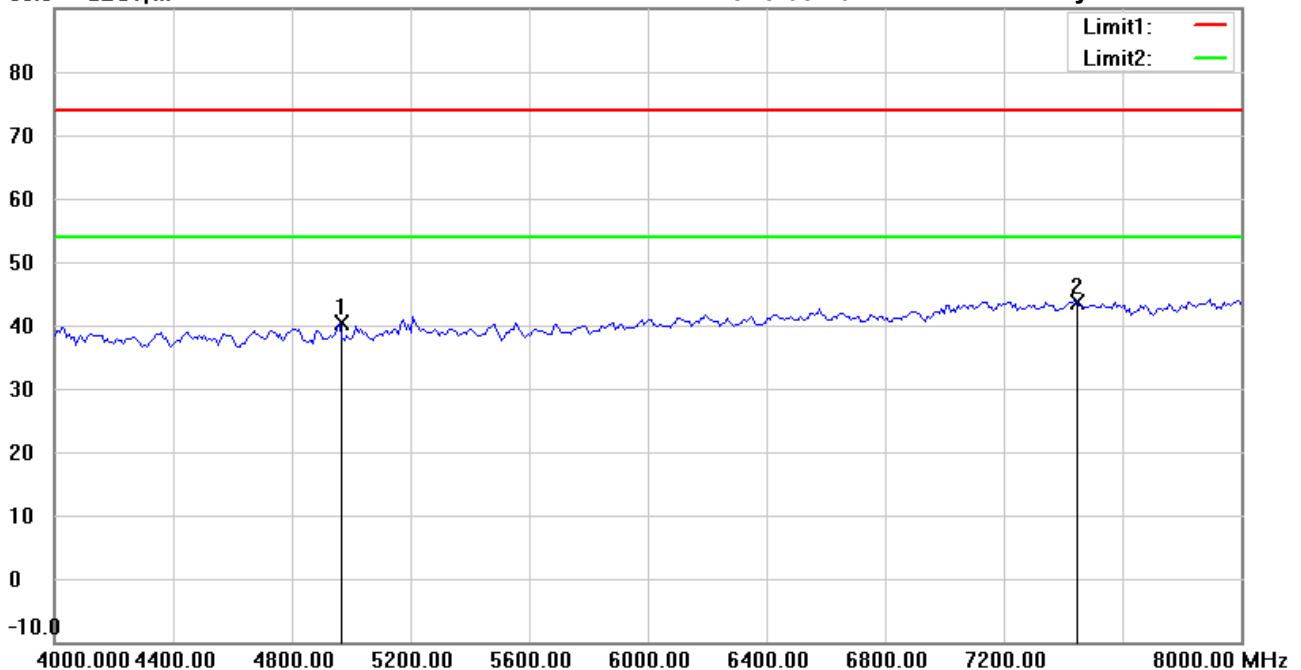
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:05:49 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Horizontal**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4961.924        | 41.75          | peak     | -1.35               | 40.40           | 74.00          | 150          | 355            | -33.60      |         |
| *   | 7440.000        | 39.88          | peak     | 3.76                | 43.64           | 74.00          | 150          | 90             | -30.36      |         |

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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

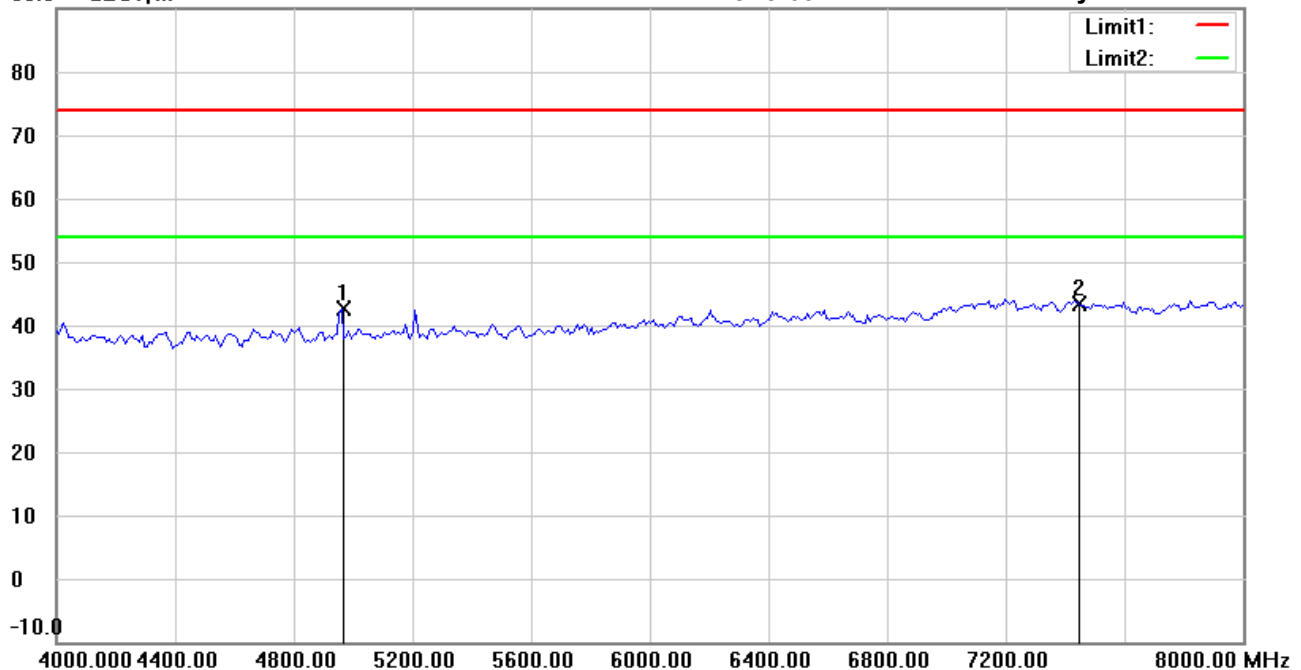
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:09:21 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 4961.924        | 44.10          | peak     | -1.35               | 42.75           | 74.00          | 150          | 240            | -31.25      |         |
| *   | 7440.000        | 39.60          | peak     | 3.76                | 43.36           | 74.00          | 150          | 39             | -30.64      |         |

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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

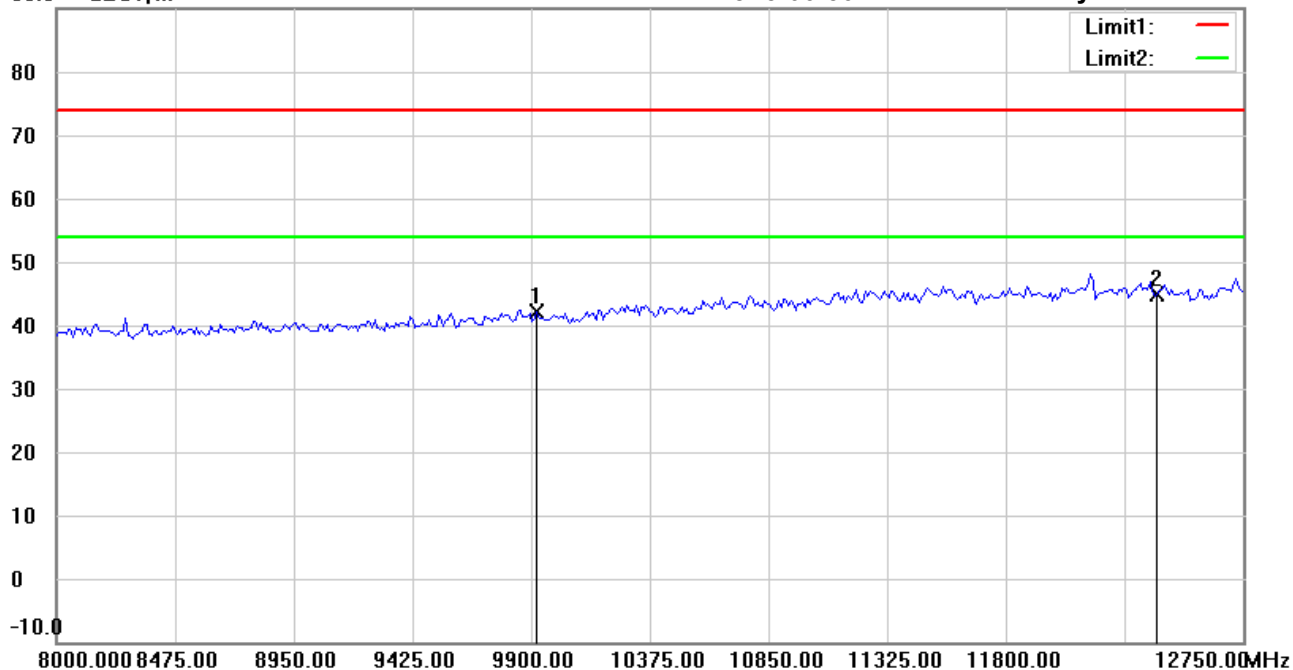
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:06:56 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 34.85          | peak     | 7.23                | 42.08           | 74.00          | 150          | 152            | -31.92      |         |
| *   | 12400.000       | 32.15          | peak     | 12.81               | 44.96           | 74.00          | 150          | 300            | -29.04      |         |

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



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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

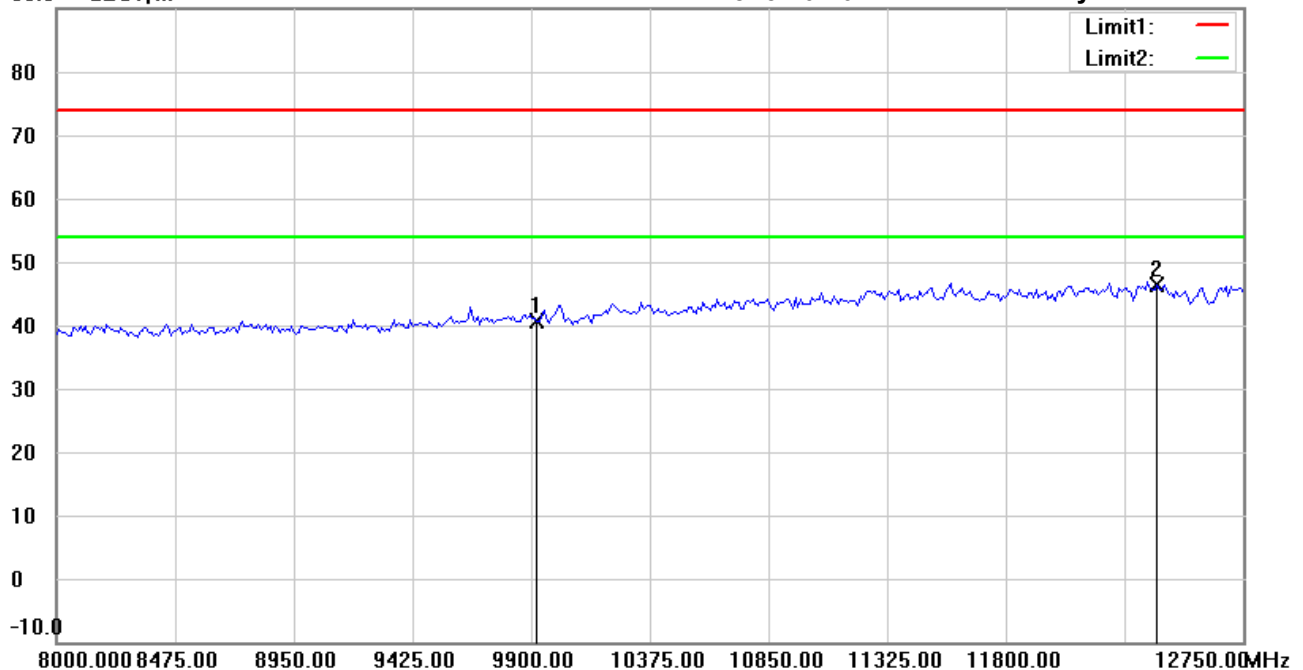
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:10:20 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: **Vertical**

Power : 3.7 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 |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|     | 9920.000        | 33.40          | peak     | 7.23                | 40.63           | 74.00          | 150          | 57             | -33.37      |         |
| *   | 12400.000       | 33.54          | peak     | 12.81               | 46.35           | 74.00          | 150          | 132            | -27.65      |         |

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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#4

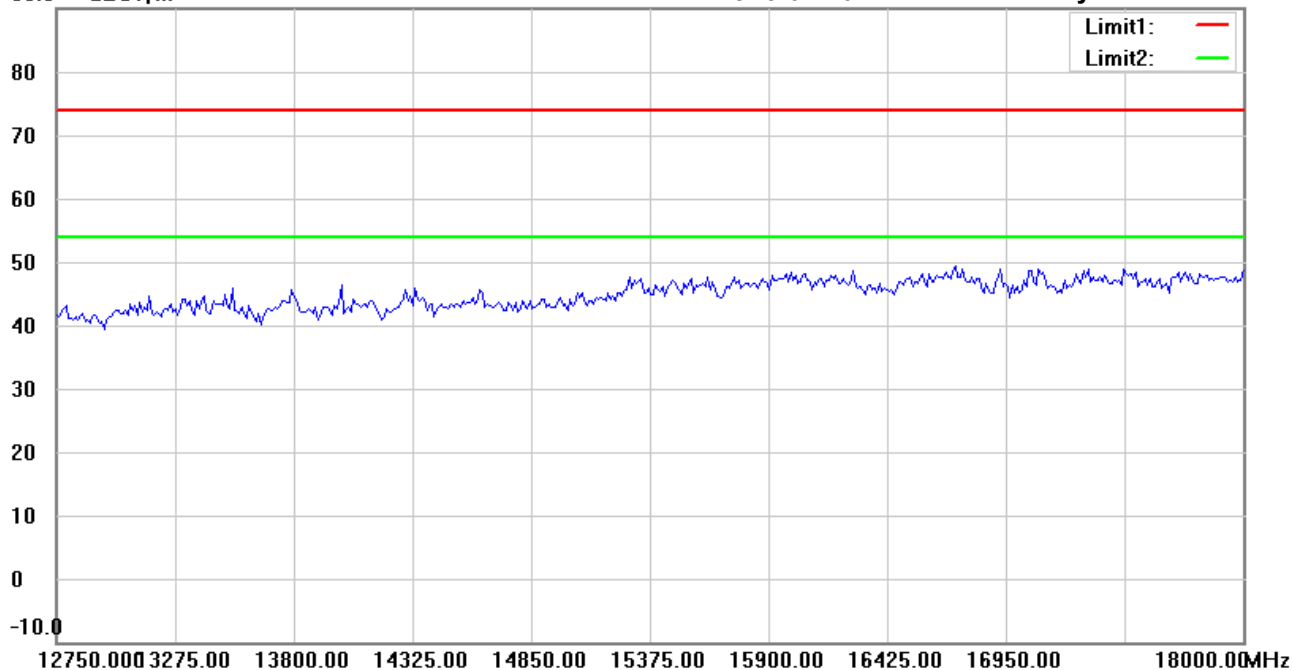
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:07:10 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

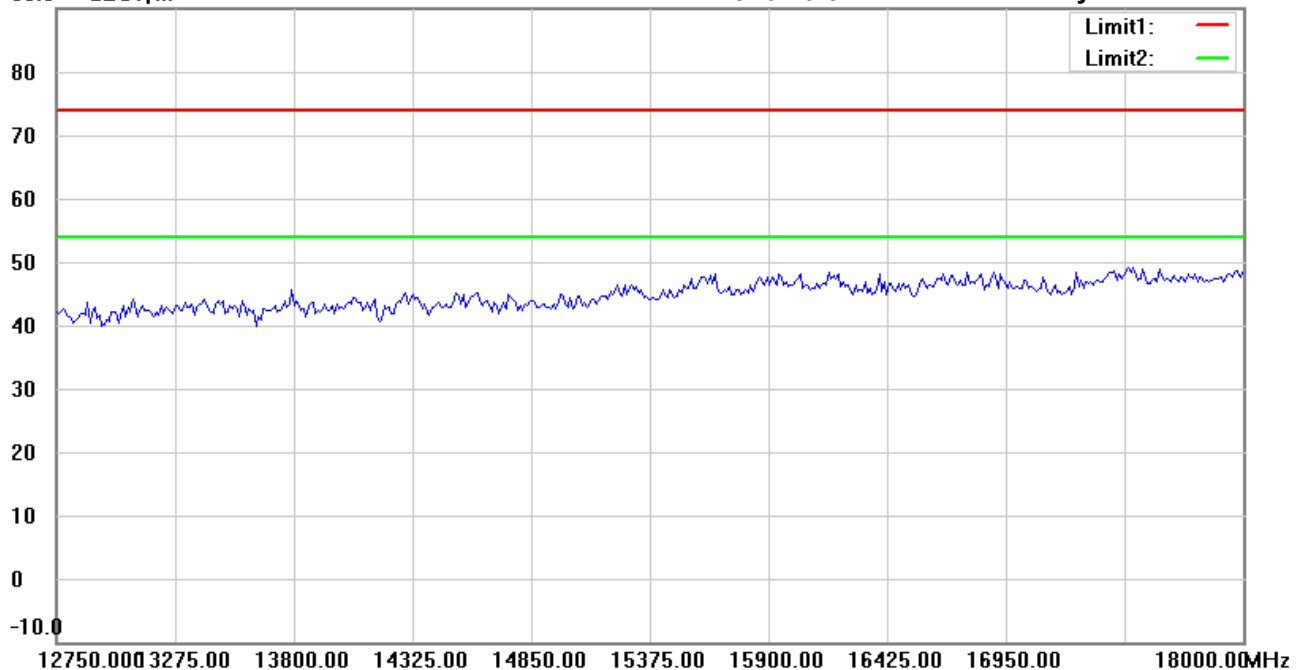
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:10:34 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Vertical

Power : 3.7 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



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# Radiated Emission Measurement

Operator: Allen

File :3

Data :#5

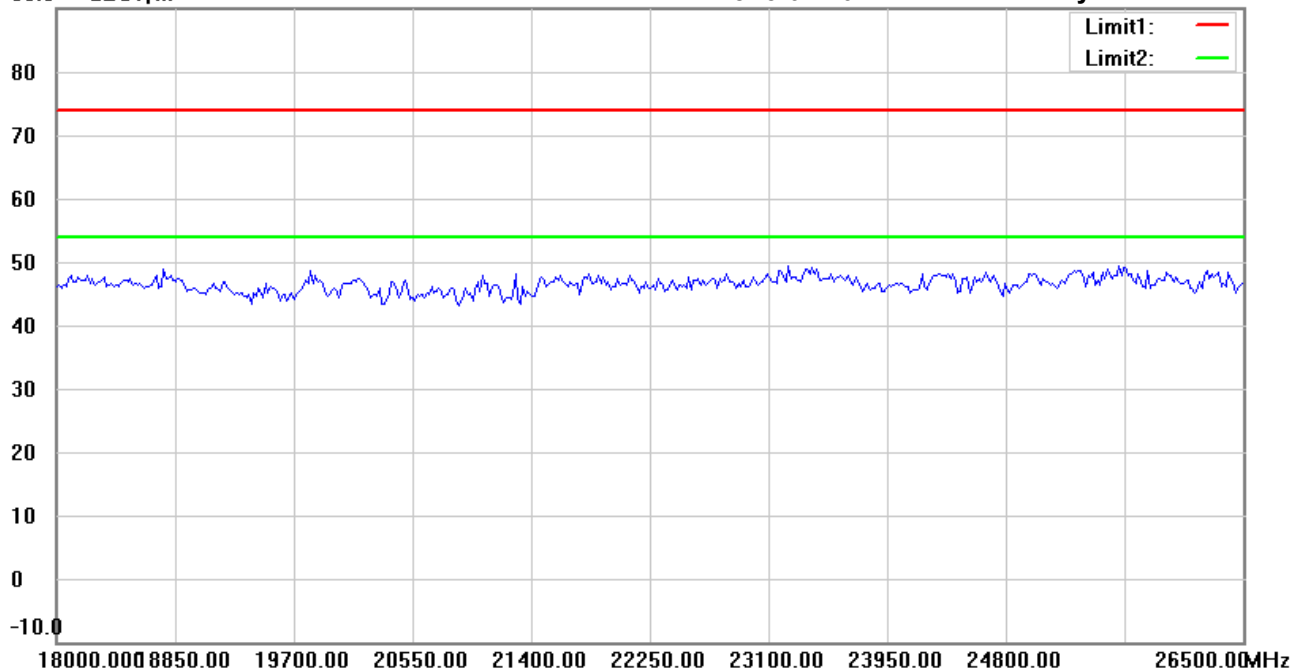
Date: 4/8/2021

Temperature: 24.5 °C

90.0 dBuV/m

Time: 5:07:20 AM

Humidity: 56.7 %



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: Horizontal

Power : 3.7 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



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#10

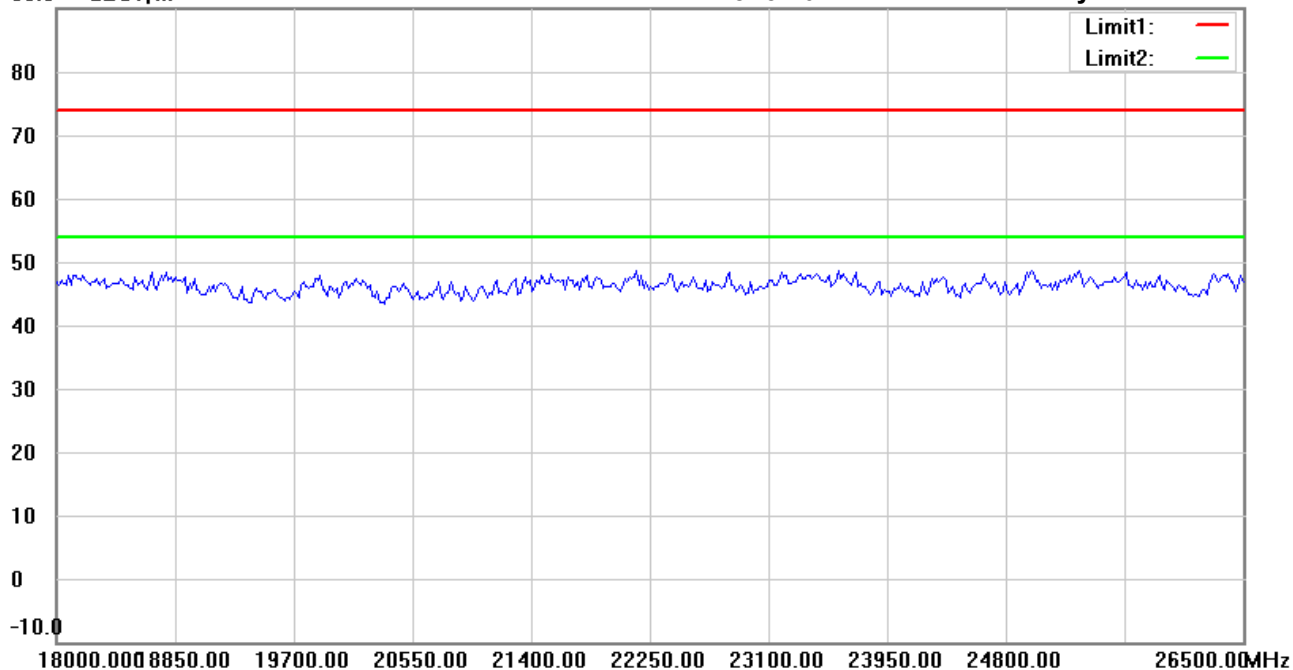
Date: 4/8/2021

Temperature: 24.5 °C

Time: 5:10:44 AM

Humidity: 56.7 %

90.0 dBuV/m



Site : Chamber

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

EUT : W6M22102-20692

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Vertical*

Power : 3.7 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