

47 CFR PART 15 SUBPART C TEST REPORT

for

Outdoor GPS

Model No.: AC2401

FCC ID: IPH-C2401

of

Applicant: **Garmin International Inc**

Address: 1200 E. 151st Street Olathe, Kansas United States 66062

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

A2LA Accredited No.: 2732.01



Report No.: W6M22004-19834-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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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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Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

Specific Conditions:

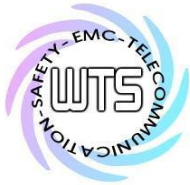
Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration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

Tester:

| | | |
|-----------------|---------------|-------------------|
| August 07, 2020 | Rick Chen | <i>Rick Chen.</i> |
| _____ | _____ | _____ |
| Date | WTS-Lab. Name | Signature |

Technical responsibility for area of testing:

| | | |
|-----------------|------------|-------------------|
| August 07, 2020 | Kevin Wang | <i>Kevin Wang</i> |
| _____ | _____ | _____ |
| Date | WTS Name | Signature |



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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

A2LA accredited number: 2732.01

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: Garmin International Inc

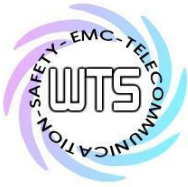
Street: 1200 E. 151st Street

Town: Olathe, Kansas

Country: United States 66062

Telephone: (913) 397-8448

Fax: (913) 397-8282



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1.4 Application details

Date of receipt of test item: June 29, 2020
Date of test: From June 29, 2020 to July 29, 2020

1.5 General information of Test item

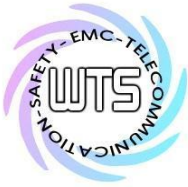
Type of test item: Outdoor GPS
Model Number: AC2401
Brand Name: GARMIN
Multi-listing model number: ./.
Photos: ./.

Technical data

Frequency band: 2.4 GHz – 2.4835 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: PIFA Antenna
Antenna gain: 1.3 dBi
Power supply: USB 5Vd.c. / Battery 3Vd.c. (1.5Vd.c.*2)
Emission designator: Bluetooth 2.0: 1M20F1D
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: 0.94 dBm |
| Power (ch 39 or B): | Conducted: 1.34 dBm |
| Power (ch 78 or C): | Conducted: 1.49 dBm |

Mode B (Bluetooth 2.0 EDR mode)

| | |
|----------------------|---------------------|
| Power (ch 0 or A): | Conducted: 3.58 dBm |
| Power (ch 39 or B): | Conducted: 4.05 dBm |
| Power (ch 78 or C): | Conducted: 4.15 dBm |

Mode C (Bluetooth 4.0)

| | |
|-----------------|----------------------|
| Power (ch 0): | Conducted: -4.62 dBm |
| Power (ch 19): | Conducted: -4.54 dBm |
| Power (ch 39): | Conducted: -4.45 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

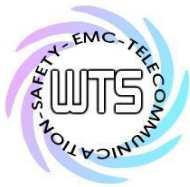
The deviations were ascertained in the course of the tests performed.

2.2 Test environment

Relative humidity content: 20 ... 75 %
 Air pressure: 86 ... 103 kPa
 Power supply: USB 5Vd.c. / Battery 3Vd.c. (1.5Vd.c.*2)
 Extreme conditions parameters: ./.

| Test item Name | Uncertainty |
|---|--|
| Estimation Result of Uncertainty of Conducted Emission | Expanded Uncertainty : AMN : 1.06 dB Voltage probe : 1.12 dB |
| Estimation Result of Uncertainty of Radiated Emission(3M) | Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 2.79 dB 1-18 GHz : 2.36 dB 18-40 GHz : 1.55 dB |
| Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth | Expanded Uncertainty : 0.45 kHz |
| Estimation Result of Uncertainty of Conducted Output Power Measurement Output power | Expanded Uncertainty : 1.14 dB |
| Estimation Result of Uncertainty of Power Density Measurement Power density | Expanded Uncertainty : 1.45 dB |
| Estimation Result of Uncertainty of Band Edge Measurement | Expanded Uncertainty : 1.01 dBc |
| Estimation Result of Uncertainty of Frequency Separation Measurement Hopping channel separation | Expanded Uncertainty : 554.14 Hz |
| Estimation Result of Uncertainty of Duty Cycle Measurement Dwell time | Expanded Uncertainty : 0.1 ms |

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

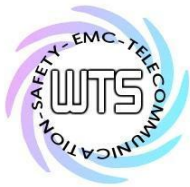


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2.3 Test Equipment List

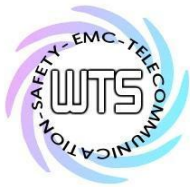
| No. | Test equipment | Type | Serial No. | Manufacturer | Cal. Date | Next Cal. Date |
|--------------|--|-----------------|-------------|--------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER | ESHS10 | 842121/013 | R&S | 2020/6/11 | 2021/6/10 |
| ETSTW-CE 003 | AC POWER SOURCE | APS-9102 | D161137 | GW | Function Test | |
| ETSTW-CE 004 | ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK | ESH3-Z5 | 840731/011 | R&S | 2019/11/1 | 2020/10/31 |
| ETSTW-CE 006 | IMPULSBEGRENZER PULSE LIMITER | ESH3-Z2 | 100226 | R&S | 2019/9/24 | 2020/9/23 |
| ETSTW-CE 008 | HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP | 334.6010.02 | 844581/024 | R&S | Function Test | |
| ETSTW-CE 009 | TEMP.&HUMIDITY CHAMBER | GTH-225-40-1P-U | MAA0305-009 | GIANT FORCE | 2020/7/17 | 2021/7/16 |
| ETSTW-CE 016 | TWO-LINE V-NETWORK | ENV216 | 100050 | R&S | 2019/10/3 | 2020/10/2 |
| ETSTW-CE 028 | MXE EMI Receiver | N9038A | MY53220110 | Agilent | 2020/7/17 | 2021/7/16 |
| 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 | 2020/7/16 | 2021/7/15 |
| ETSTW-RE 012 | TUNABLE BANDREJECT FILTER | D.C 0309 | 146 | K&L | Function Test | |
| ETSTW-RE 013 | TUNABLE BANDREJECT FILTER | D.C 0336 | 397 | K&L | Function Test | |
| ETSTW-RE 018 | MICROWAVE HORN ANTENNA | AT4560 | 27212 | AR | 2020/7/17 | 2021/7/16 |
| ETSTW-RE 027 | Passive Loop Antenna | 6512 | 00034563 | ETS-Lindgren | 2020/7/8 | 2021/7/7 |
| ETSTW-RE 030 | Double-Ridged Guide Horn Antenna | 3117 | 00035224 | ETS-Lindgren | 2020/4/22 | 2021/4/21 |
| ETSTW-RE 042 | Biconical Antenna | HK116 | 100172 | R&S | 2020/2/18 | 2021/2/17 |
| ETSTW-RE 043 | Log-Periodic Dipole Antenna | HL223 | 100166 | R&S | 2020/5/8 | 2021/5/7 |
| ETSTW-RE 044 | Log-Periodic Antenna | HL050 | 100094 | R&S | 2020/5/8 | 2021/5/7 |
| ETSTW-RE 045 | ESA-E SERIES SPECTRUM ANALYZER | E4404B | MY45111242 | Agilent | Pre-test Use | |
| ETSTW-RE 050 | Attenuator 10dB | 50HF-010-1 | None | JFW | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 051 | Attenuator 6dB | 50HF-006-1 | None | JFW | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 053 | Attenuator 3dB | 50HF-003-1 | None | JFW | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 055 | SPECTRUM ANALYZER | FSU 26 | 200074 | R&S | 2020/3/6 | 2021/3/5 |
| ETSTW-RE 060 | Attenuator 30dB | 5015-30 | F651012z-01 | ATM | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 062 | Amplifier Module | CHC 2 | None | KMIC | 2020/5/8 | 2021/5/7 |
| ETSTW-RE 064 | Bluetooth Test Set | MT8852B-042 | 6K00005709 | Anritsu | Function Test | |
| ETSTW-RE 069 | Double-Ridged Guide Horn Antenna | 3117 | 00069377 | ETS-Lindgren | Function Test | |
| ETSTW-RE 072 | CELL SITE TEST SET | 8921A | 3339A00375 | HP | 2019/9/23 | 2020/9/22 |
| ETSTW-RE 088 | SOLID STATE AMPLIFIER | KMA180265A01 | 99057 | KMIC | 2019/9/18 | 2020/9/17 |
| ETSTW-RE 091 | Match Pad | MDCS1500 | None | WOKEN | 2020/5/22 | 2021/5/21 |
| ETSTW-RE 099 | DC Block | 50DB-007-1 | None | JFW | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 112 | AC POWER SOURCE | TFC-1005 | T-0A023536 | T-Power | Function test | |



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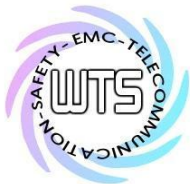
| | | | | | | |
|-----------------|--------------------------------------|--|-----------------|--------------------|------------------|------------|
| ETSTW-RE 115 | 2.4GHz Notch Filter | N0124411 | 473874 | MICROWAVE CIRCUITS | 2020/1/13 | 2021/1/12 |
| ETSTW-RE 120 | RF Player | MP9200 | MP9210-111022 | ADIVIC | Function test | |
| 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 | 2019/8/8 | 2020/8/7 |
| ETSTW-RE 126 | 5GHz Notch filter | 5NSL12-5800/E221.3-O/O | 1 | K&L Microwave | 2019/8/8 | 2020/8/7 |
| ETSTW-RE 127 | RF Switch Box | RFS-01 | None | WTS | 2020/2/20 | 2021/2/19 |
| ETSTW-RE 128 | 5.3GHz Notch filter | N0153001 | SN487233 | Microwave Circuits | 2019/8/8 | 2020/8/7 |
| ETSTW-RE 129 | 5.5GHz Notch filter | N0555984 | SN487234 | Microwave Circuits | 2019/8/8 | 2020/8/7 |
| ETSTW-RE 130 | Handheld RF Spectrum Analyzer | N9340A | CN0147000204 | Agilent | Pre-test Use | |
| ETSTW-RE 142 | Amplifier | 8447D | 2805A03378 | Agilent | 2020/5/8 | 2021/5/7 |
| ETSTW-RE 147 | Bi-log Hybrid Antenna | MCTD 2786B | BLB16M04005 | ETC | 2020/4/9 | 2021/4/8 |
| 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 | 2020/3/9 | 2021/3/8 |
| ETSTW-GSM 003 | Radio Communication Analyzer | MT8820C | 6201342073 | Anritsu | 2020/4/20 | 2021/4/19 |
| ETSTW-GSM 004 | Wideband Radio Communication Tester | CMW500 | 128092 | R&S | 2019/10/25 | 2020/10/24 |
| ETSTW-GSM 019 | Band Reject Filter | WRCTF824/849-822/851-40 /12+9SS | 3 | WI | 2020/1/13 | 2021/1/12 |
| ETSTW-GSM 020 | Band Reject Filter | WRCD1747/1748-1743/1752-32/5SS | 1 | WI | 2020/1/13 | 2021/1/12 |
| ETSTW-GSM 021 | Band Reject Filter | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3 | WI | 2020/1/13 | 2021/1/12 |
| ETSTW-GSM 022 | Band Reject Filter | WRCT901.9/903.1-904.25-50/8SS | 1 | WI | 2020/1/13 | 2021/1/12 |
| ETSTW-GSM 023 | Power Divider | 4901.19.A | None | SUHNER | 2019/9/12 | 2020/9/11 |
| ETSTW-GSM 024 | Radio Communication Analyzer | MT8821C | None | Anritsu | 2020/3/27 | 2021/3/26 |
| ETSTW-GSM 025 | Band Reject Filter | BRM19835 | 001 | Micro-Tronics | 2019/8/9 | 2020/8/8 |
| 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 | 2020/2/20 | 2021/2/19 |
| ETSTW-Cable 017 | BNC Cable | X Cable | B Cable 2 | Schwarz beck | 2020/2/20 | 2021/2/19 |
| ETSTW-Cable 018 | BNC Cable | Y Cable | B Cable 3 | Schwarz beck | 2020/2/20 | 2021/2/19 |
| ETSTW-Cable 019 | BNC Cable | Z Cable | B Cable 4 | Schwarz beck | 2020/2/20 | 2021/2/19 |
| 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 | 2019/9/18 | 2020/9/17 |
| ETSTW-Cable 029 | Microwave Cable | FA147A0015M2020 | 30064-3 | UTIFLEX | 2019/9/18 | 2020/9/17 |
| ETSTW-Cable 030 | Microwave Cable | SUCOFLEX 104 (S_Cable 9) | 279067 | HUBER+SUHNER | 2020/2/20 | 2021/2/19 |
| ETSTW-Cable 043 | Microwave Cable | SUCOFLEX 104 | 317576 | HUBER+SUHNER | 2020/5/8 | 2021/5/7 |
| 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 | 2020/5/8 | 2021/5/7 |



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| | | | | | | |
|-----------------|---------------------|---------------------------|----------|--------------|------------------|----------|
| 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 | 2020/5/8 | 2021/5/7 |
| ETSTW-Cable 074 | SMA type cable (2m) | SUCOFLEX 104 | 802563/4 | HUBER+SUHNER | 2020/5/8 | 2021/5/7 |
| WTSTW-SW 002 | EMI TEST SOFTWARE | EZ_EMG | 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 001 | Thermohygrometer | 608-H1 | 45204316 | Testo | 2019/9/9 | 2020/9/8 |
| ETSTW-TH 002 | Thermohygrometer | 608-H1 | 45204317 | Testo | 2019/9/9 | 2020/9/8 |



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2.4 General Test Procedure

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

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

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

Example:

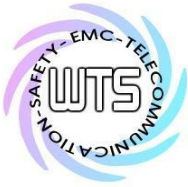
Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

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:

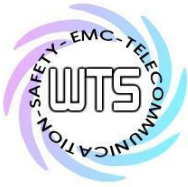
Average = Peak + Duty Factor

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.



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3 Test results (enclosure)

| TEST CASE | Para. Number | Required | Test passed | Test failed |
|--|------------------|-------------------------------------|-------------------------------------|--------------------------|
| Peak Output Power | 15.247(b) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Equivalent 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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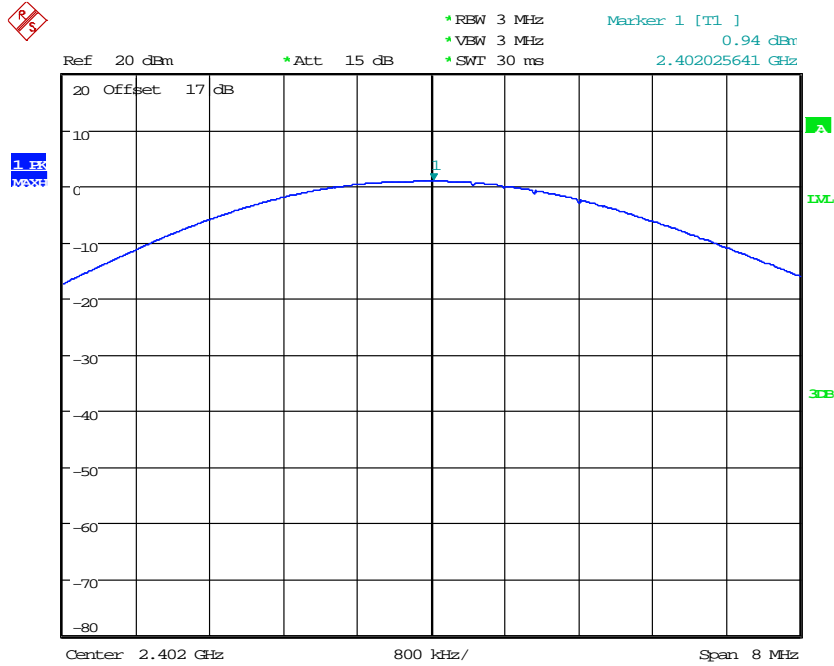
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

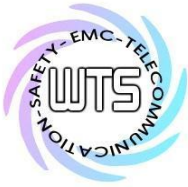
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.
The power was measured with modulation (declared by the applicant).

Test date: July 27, 2020
Temperature: 25.9 °C
Humidity: 49.2 %
Tester: Rick

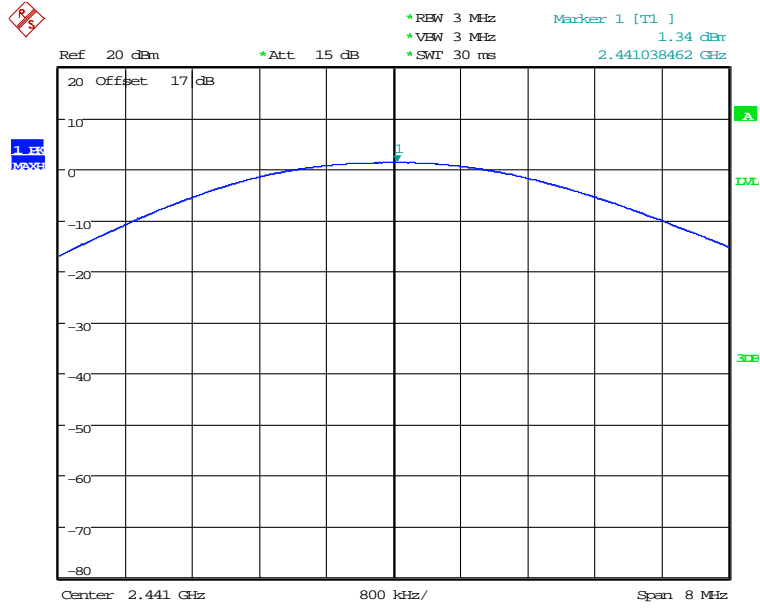
Bluetooth 2.0
Normal mode



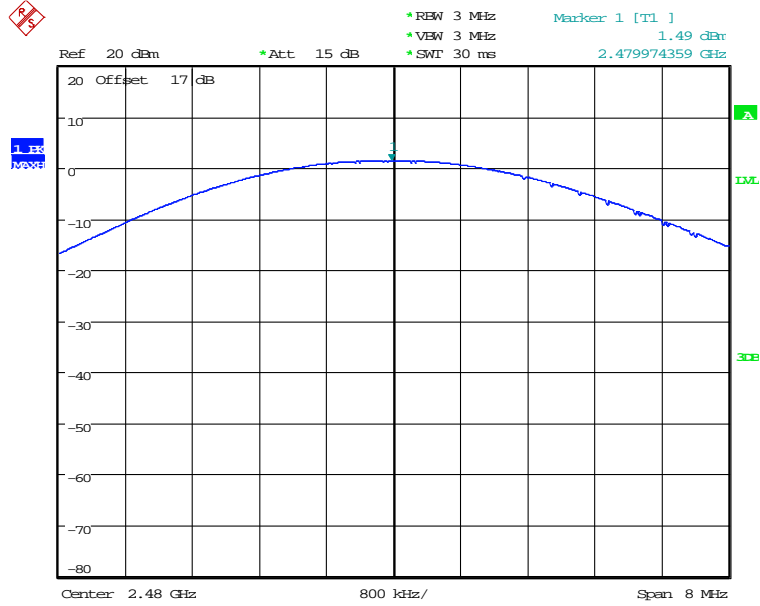
MAX OUTPUT POWER CH0
Date: 11.JUL.2020 17:56:52



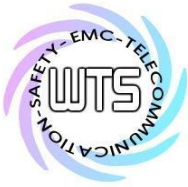
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



MAX OUTPUT POWER CH39
Date: 11.JUL.2020 17:57:36

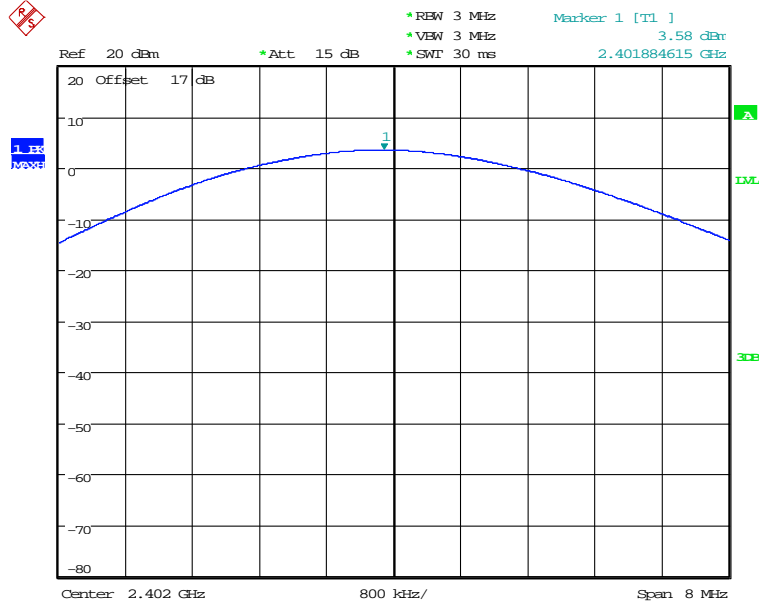


MAX OUTPUT POWER CH78
Date: 11.JUL.2020 17:58:20

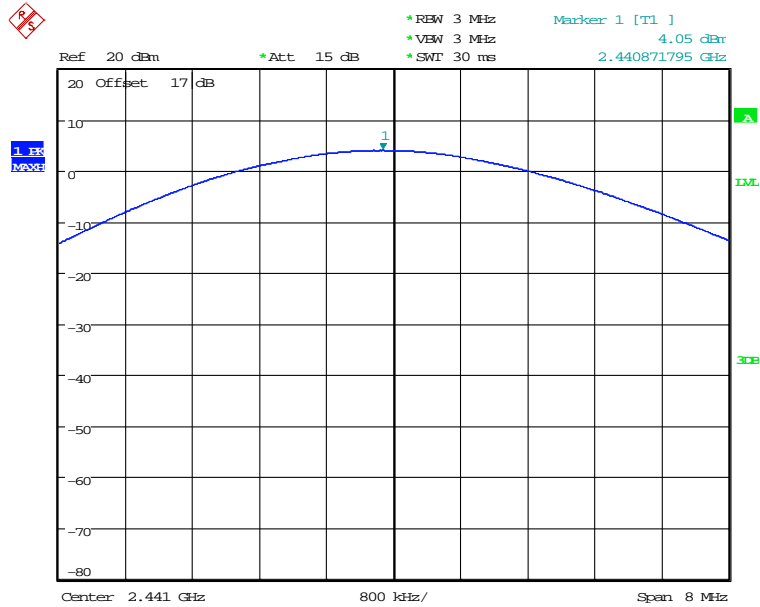


Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

EDR mode



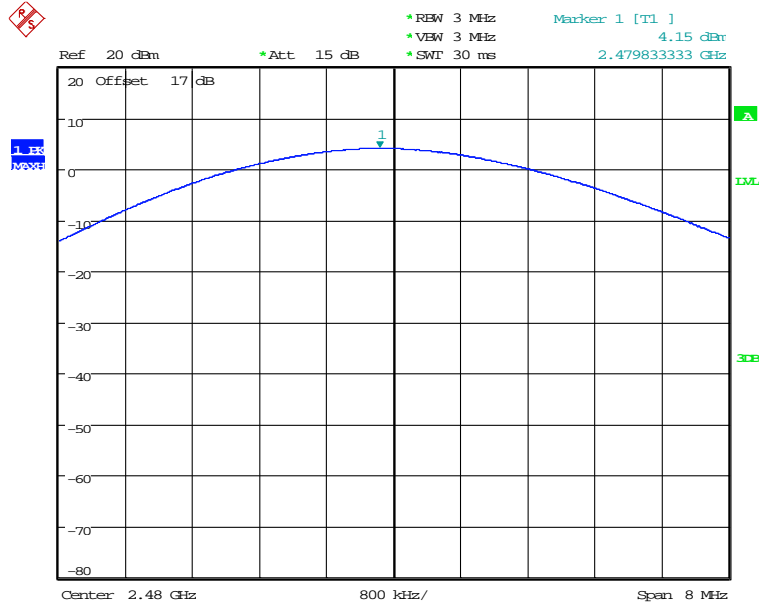
MAX OUTPUT POWER CH0 EDR MODE
Date: 11.JUL.2020 18:11:56



MAX OUTPUT POWER CH39 EDR MODE
Date: 11.JUL.2020 18:15:12

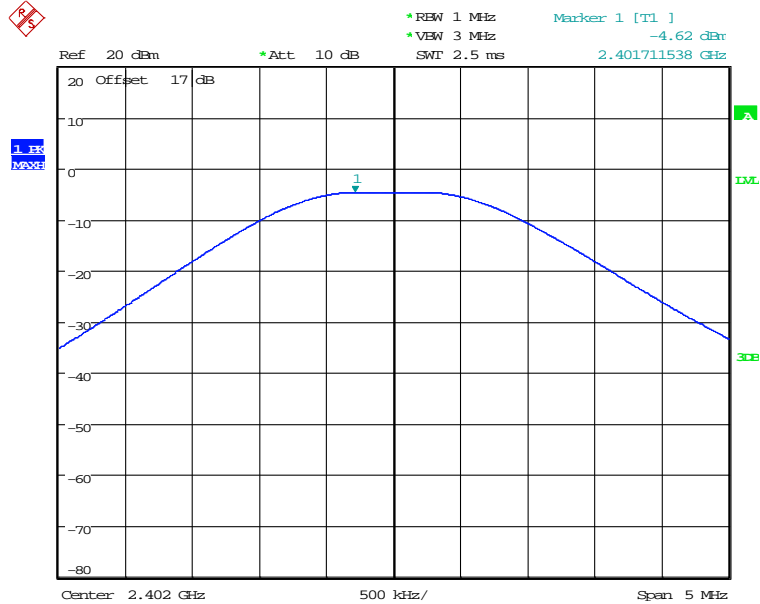


Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

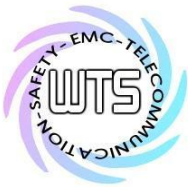


MAX OUTPUT POWER CH78 EDR MODE
Date: 11.JUL.2020 18:15:52

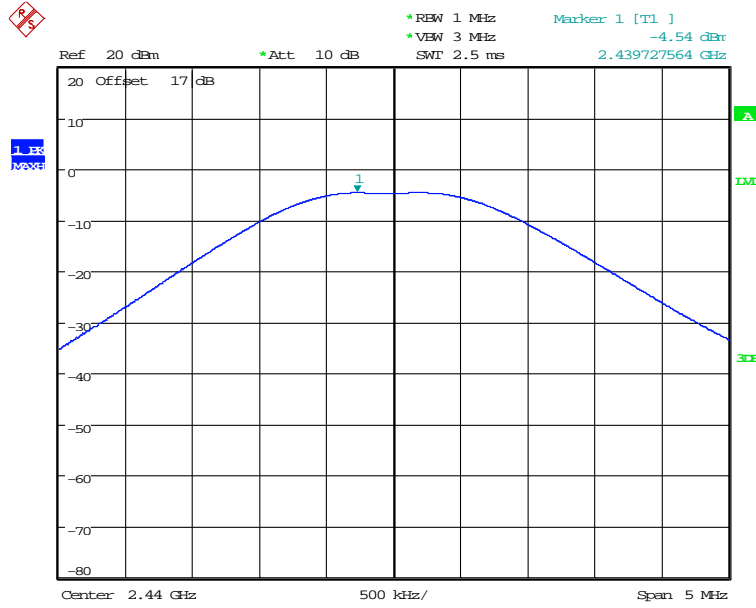
Bluetooth 4.0



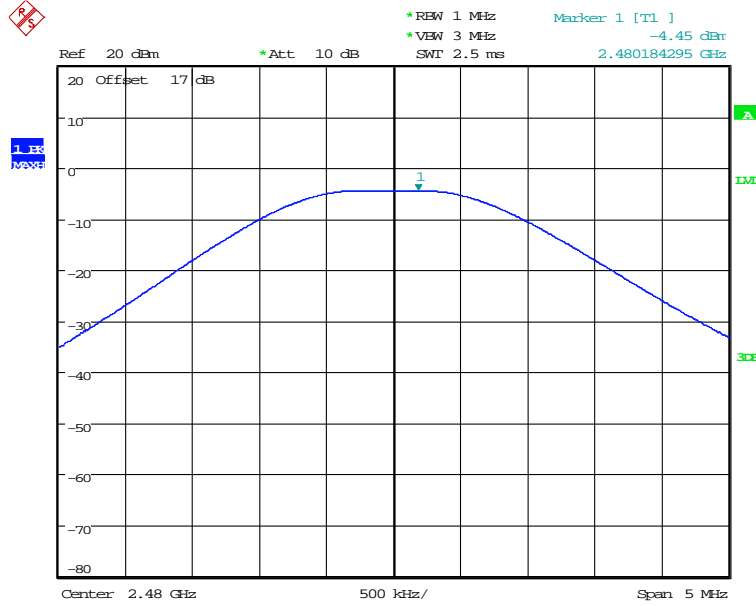
MAX OUTPUT POWER BT4.0 CH00
Date: 27.JUL.2020 19:47:07



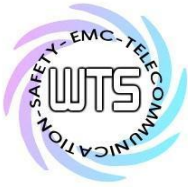
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



MAX OUTPUT POWER BT4.0 CH19
Date: 27.JUL.2020 19:49:59



MAX OUTPUT POWER BT4.0 CH39
Date: 27.JUL.2020 19:50:57



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Limits:

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

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

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



Registration number: W6M22004-19834-C-1
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3.2 3.2 Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)
 BT2.0

EIRP = max. conducted output power + antenna gain
 EIRP = 4.15 dBm + (1.3 dBi [antenna gain claimed by manufacturer]) = 5.45 dBm = 3.51 mW

BT4.0

EIRP = max. conducted output power + antenna gain
 EIRP = -4.45 dBm + (1.3 dBi [antenna gain claimed by manufacturer]) = -3.15 dBm = 0.48 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 |
|------|------|-------|-------|-------|-------|-----------------------------------|
| 2480 | 9.95 | 18.92 | 28.87 | 37.84 | 47.79 | SAR Test Exclusion Threshold (mW) |

| MHz | 30 | 35 | 40 | 45 | 50 | mm |
|------|-------|-------|-------|-------|-------|-----------------------------------|
| 2480 | 56.74 | 66.69 | 76.63 | 85.61 | 95.56 | SAR Test Exclusion 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 2480 MHz according to table is: 9.95 mW

The product is exempt from SAR Evaluation/Testing because the output power of 3.51 mW is below the exemption limit of 9.95 mW.

BT4.0

Max. output power level at 5 mm separation distance at 2480 MHz according to table is: 9.95 mW

The product is exempt from SAR Evaluation/Testing because the output power of 0.48 mW is below the exemption limit of 9.95 mW.



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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

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

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

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

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

Explanation: See attached diagrams in Appendix.



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FCC ID: IPH-C2401

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: AC2401 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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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.

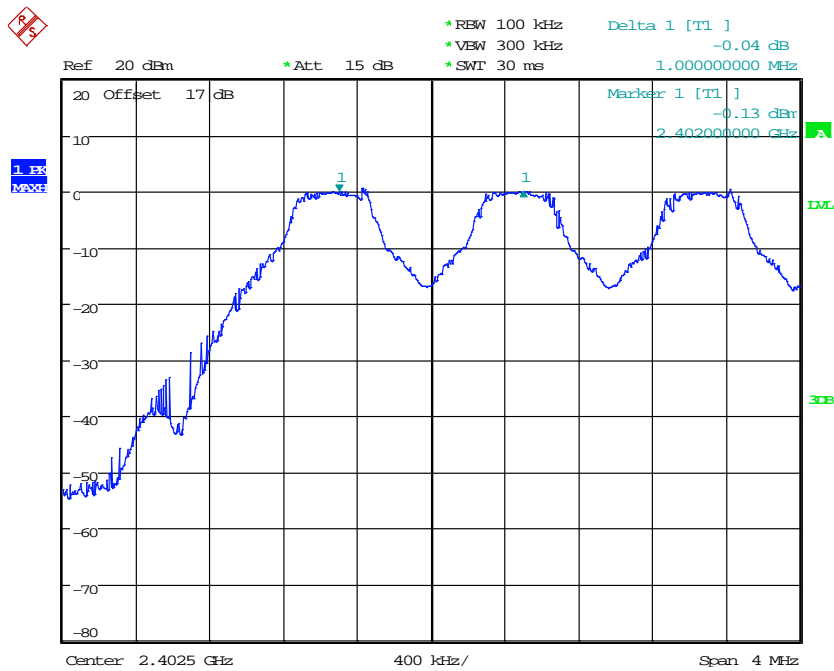
Test date: July 11, 2020

Temperature: 23.8 °C

Humidity: 48.1 %

Tester: Rick

Bluetooth 2.0

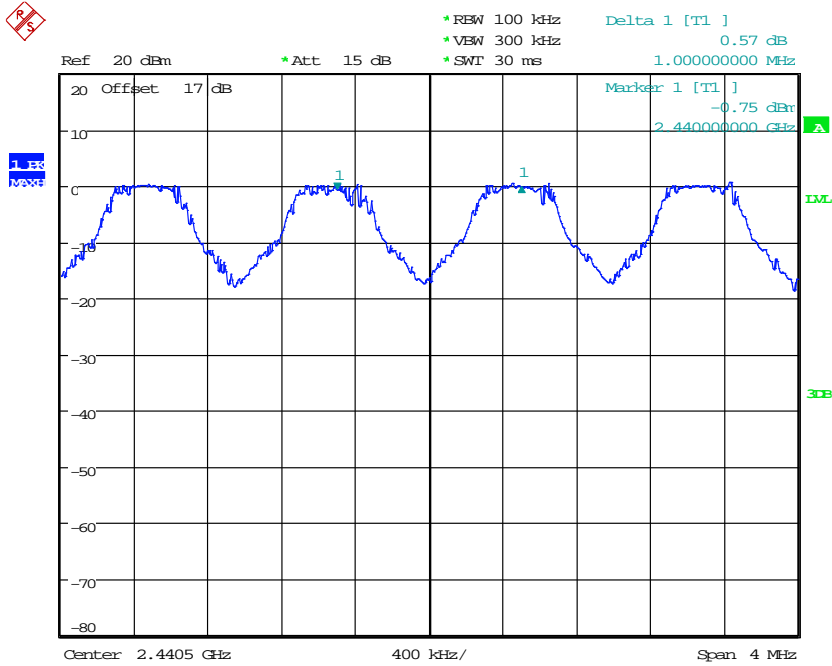


FREQUENCY SEPARATION CH0
Date: 11.JUL.2020 18:37:16

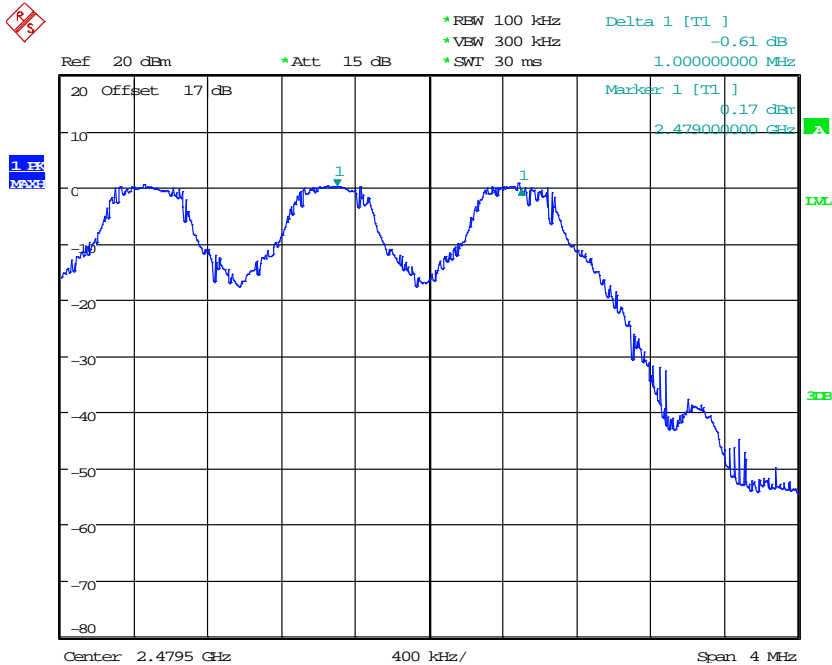


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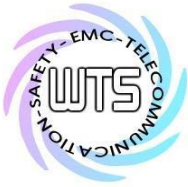
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



FREQUENCY SEPARATION CH39
Date: 11.JUL.2020 18:38:00



FREQUENCY SEPARATION CH78
Date: 11.JUL.2020 18:39:39



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Limits:

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

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



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

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.

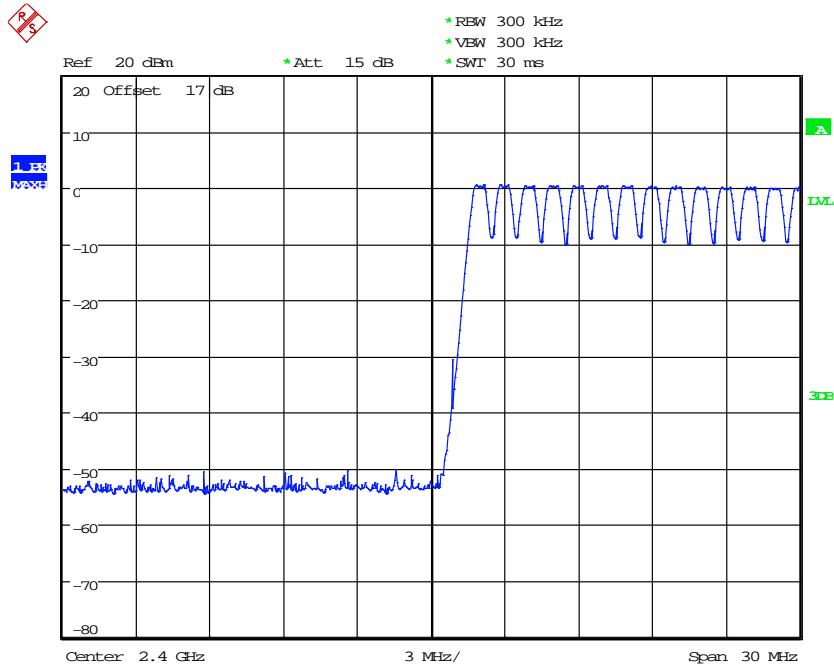
Test date: July 11, 2020

Temperature: 23.8 °C

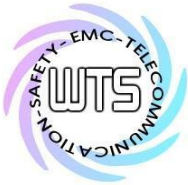
Humidity: 48.1 %

Tester: Rick

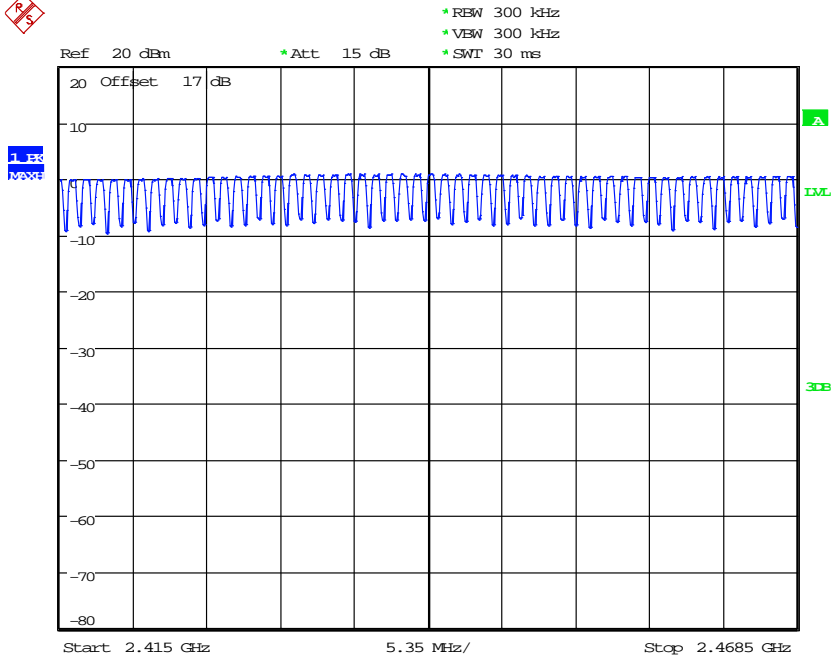
Bluetooth 2.0



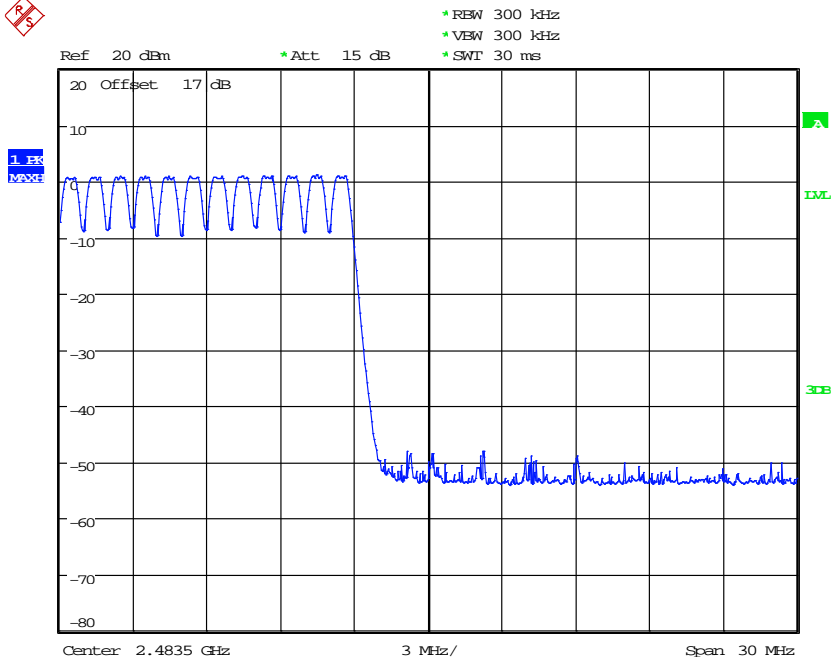
NUMBER OF HOPPING CH0-13
Date: 11.JUL.2020 18:34:32



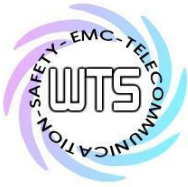
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



NUMBER OF HOPPING CH14-66
Date: 11.JUL.2020 18:36:24



NUMBER OF HOPPING CH67-78
Date: 11.JUL.2020 18:35:16



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Limits:

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

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.



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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.

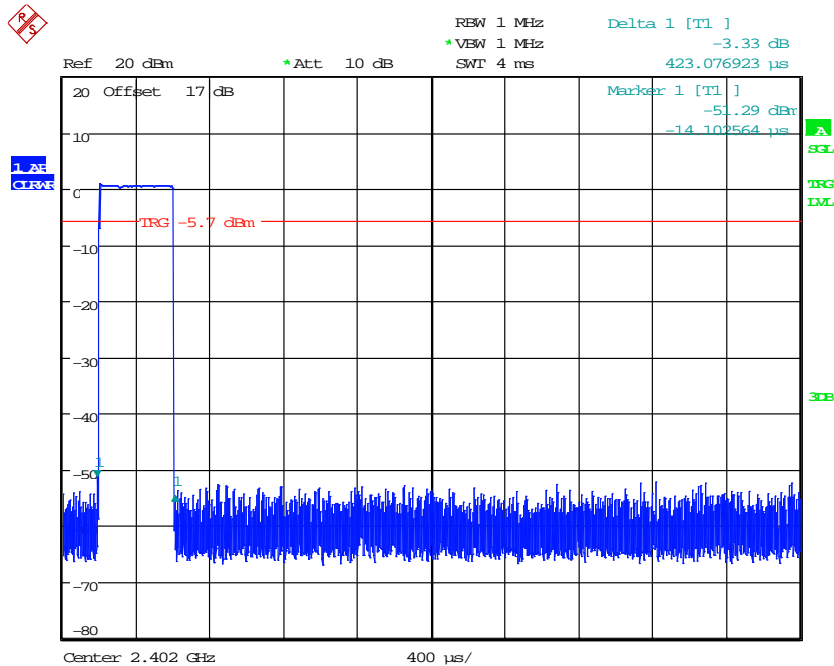
Test date: July 11, 2020

Temperature: 23.8 °C

Humidity: 48.1 %

Tester: Rick

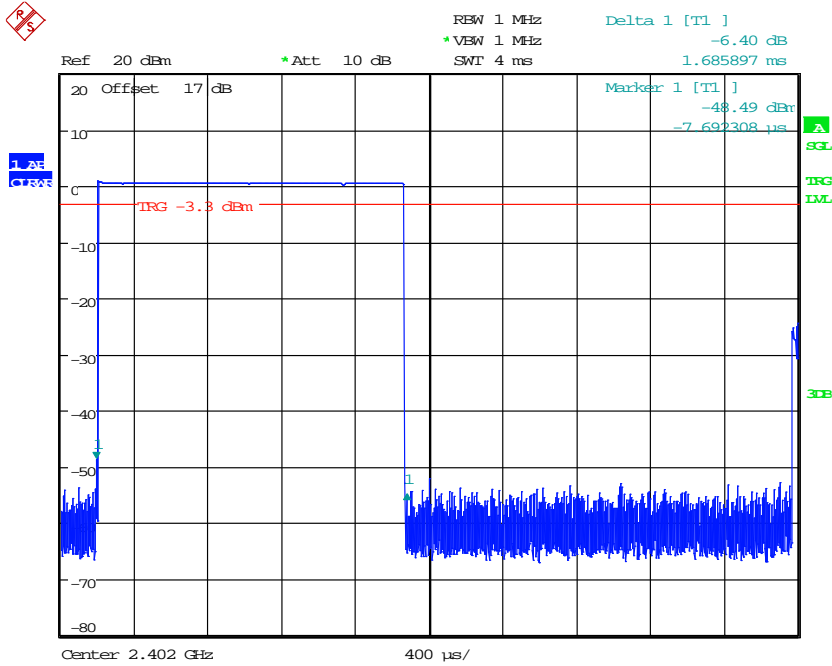
Bluetooth 2.0



DWELL TIME CH0 DH1(0.423ms * 320events = 135.36ms)
Date: 11.JUL.2020 18:23:17

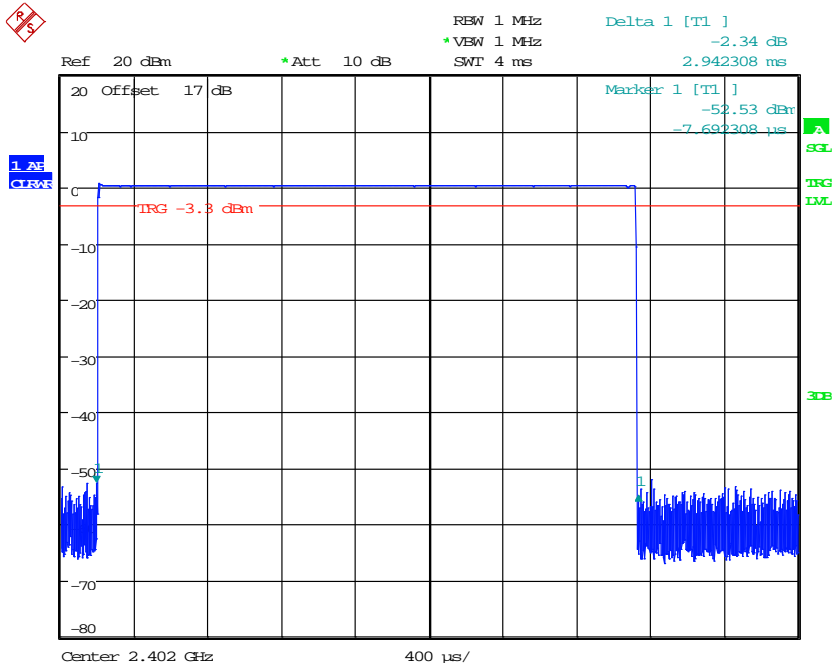


Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



DWELL TIME CH0 DH3(1.686ms * 160events = 269.76ms)

Date: 11.JUL.2020 18:27:53



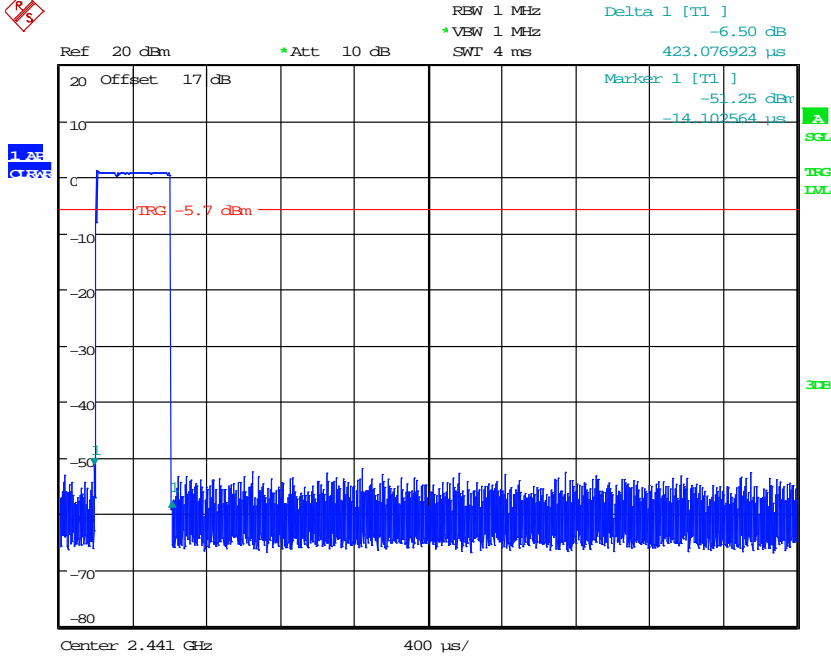
DWELL TIME CH0 DH5(2.942ms * 106events = 311.852ms)

Date: 11.JUL.2020 18:29:47



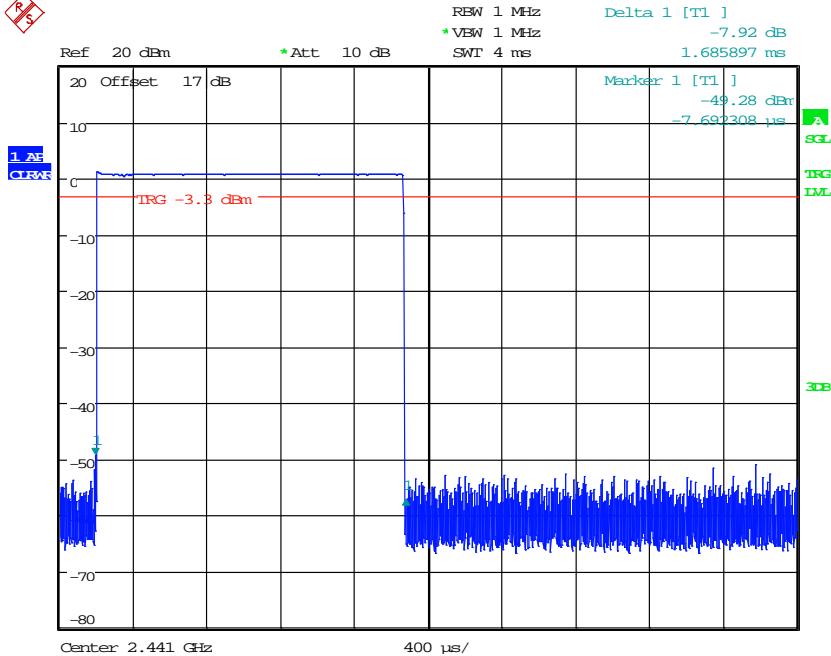
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



DWELL TIME CH39 DH1(0.423ms * 320events = 135.36ms)

Date: 11.JUL.2020 18:23:47



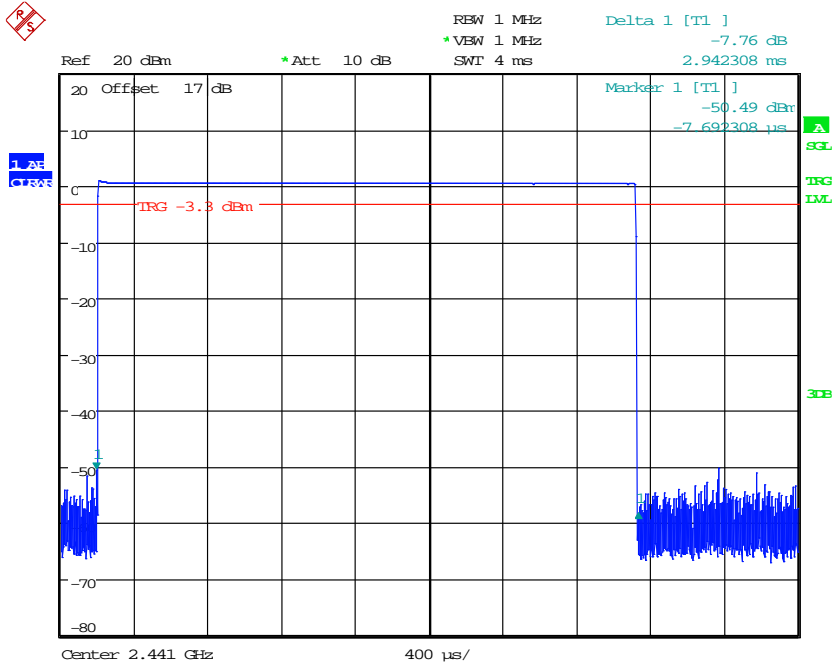
DWELL TIME CH39 DH3(1.686ms * 160events = 269.76ms)

Date: 11.JUL.2020 18:27:22



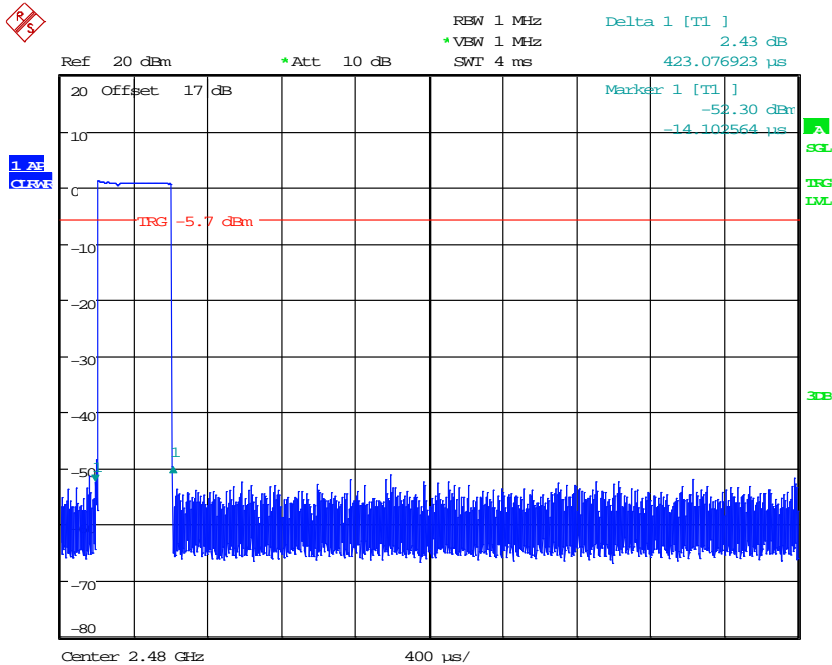
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



DWELL TIME CH39 DH5(2.942ms * 106events = 311.852ms)

Date: 11.JUL.2020 18:30:20

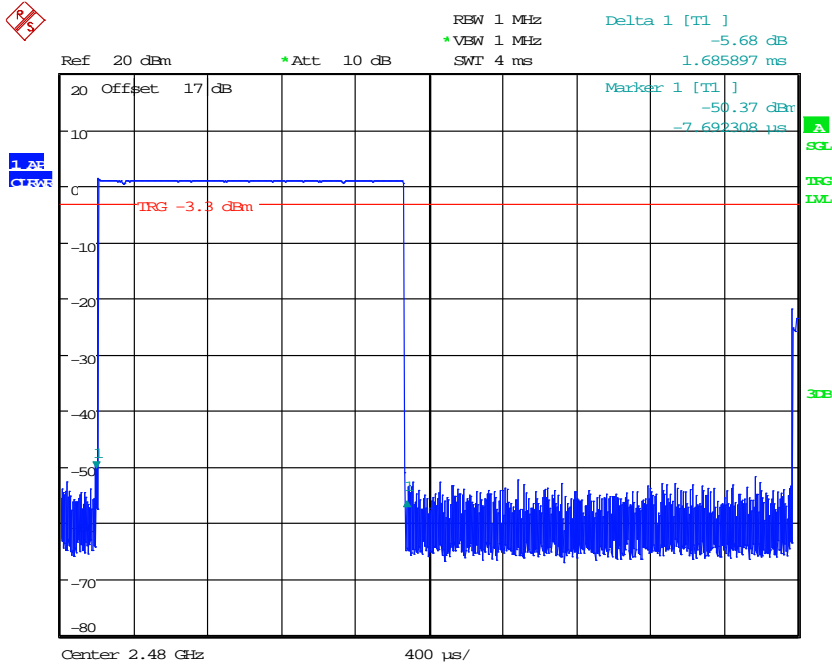


DWELL TIME CH78 DH1(0.423ms * 320events = 135.36ms)

Date: 11.JUL.2020 18:24:29

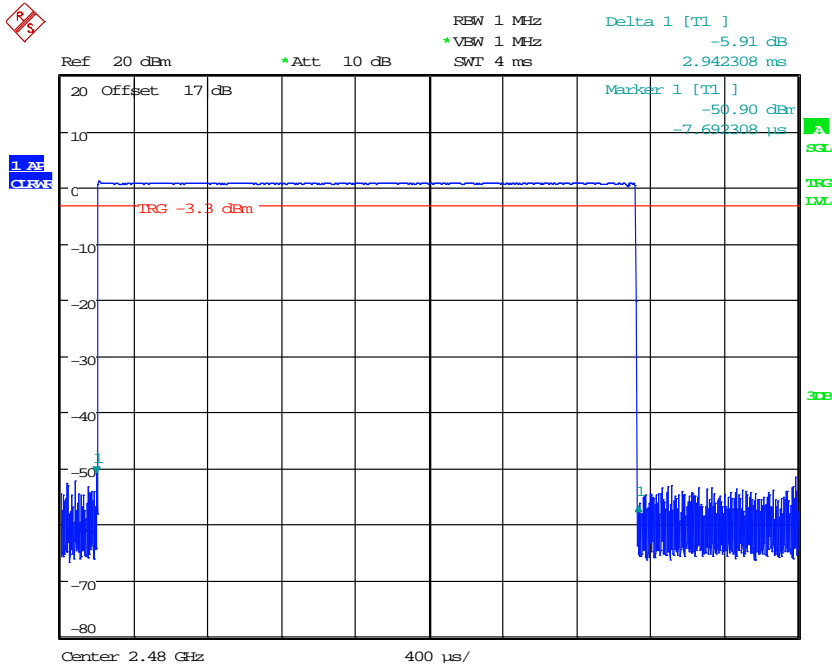


Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



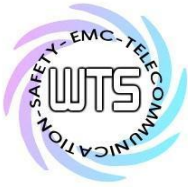
DWELL TIME CH78 DH3(1.686ms * 160events = 269.76ms)

Date: 11.JUL.2020 18:26:49



DWELL TIME CH78 DH5(2.942ms * 106events = 311.852ms)

Date: 11.JUL.2020 18:30:48



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Limits and measurement periods:

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

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



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

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.

Frequency hopping systems operating in the 2400–2483.5 MHz band shall use at least 15 channels.

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

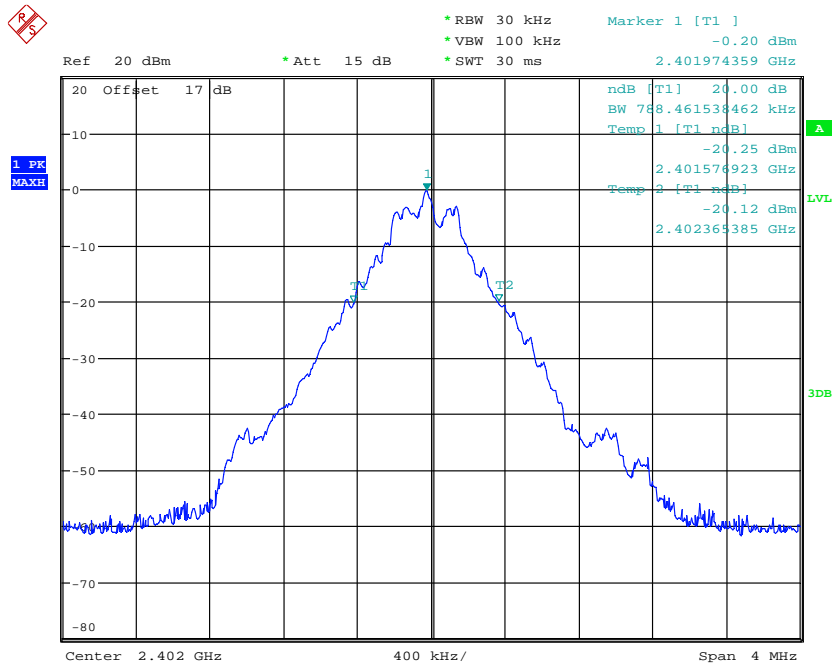
Test date: July 11, 2020

Temperature: 23.8 °C

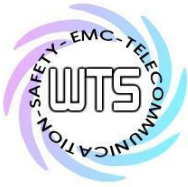
Humidity: 48.1 %

Tester: Rick

Bluetooth 2.0
Normal mode

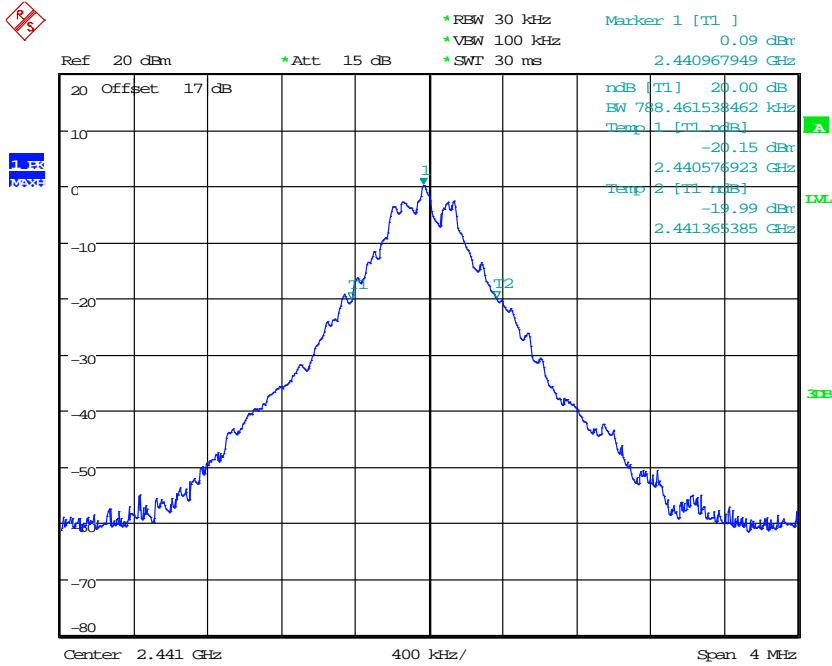


20DB BANDWIDTH CH0
Date: 11.JUL.2020 17:57:00

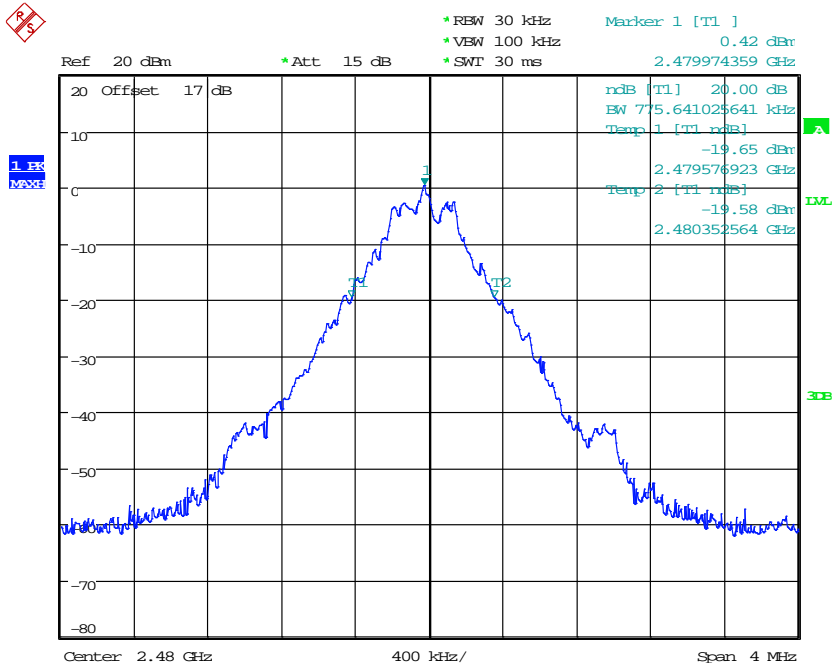


Worldwide Testing Services(Taiwan) Co., Ltd.

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20DB BANDWIDTH CH39
Date: 11.JUL.2020 17:57:46



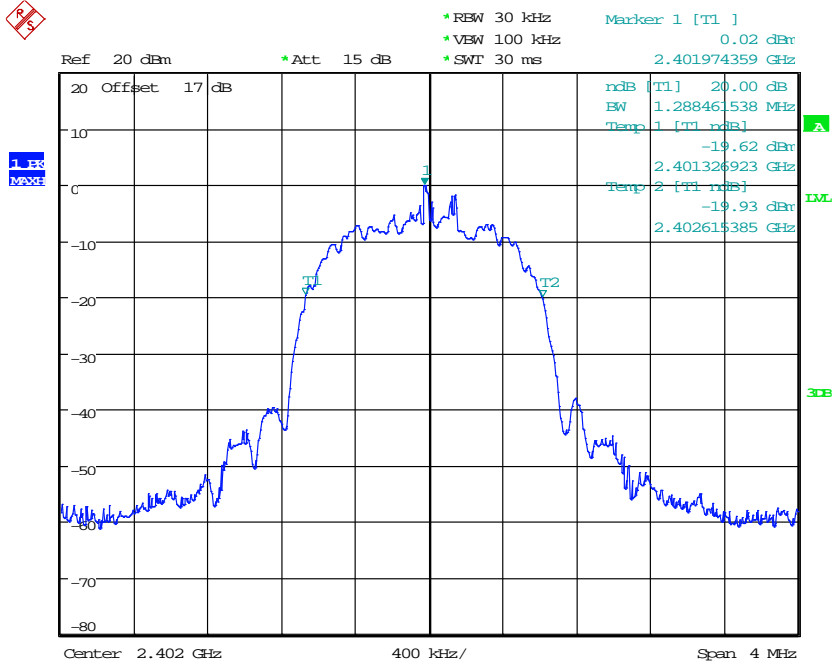
20DB BANDWIDTH CH78
Date: 11.JUL.2020 17:58:28



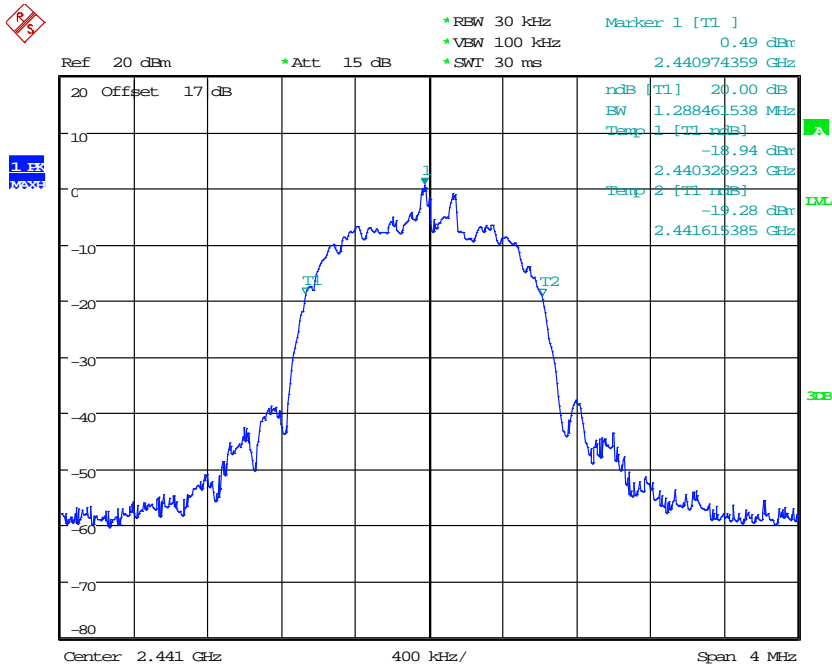
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

EDR mode



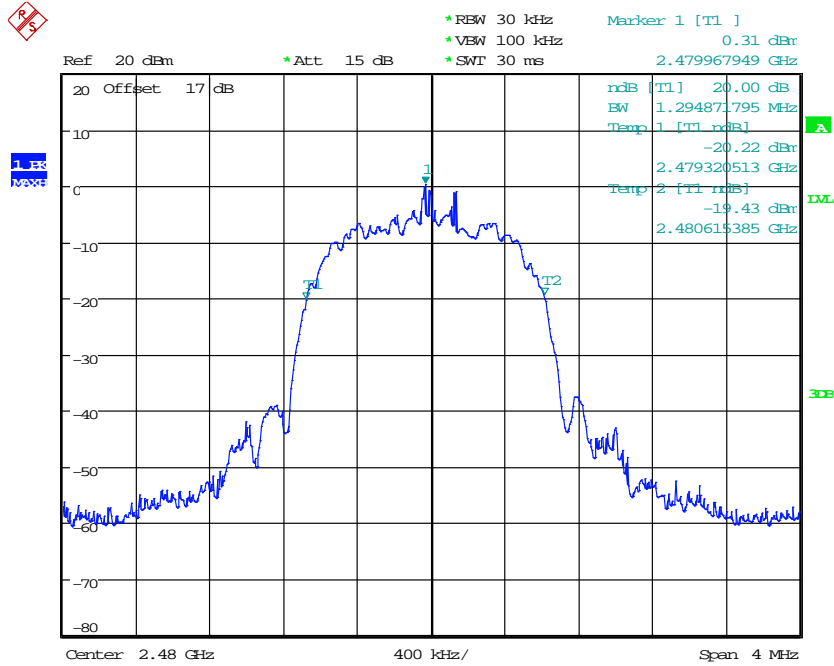
20DB BANDWIDTH CH0 EDR MODE
Date: 11.JUL.2020 18:12:04



20DB BANDWIDTH CH39 EDR MODE
Date: 11.JUL.2020 18:15:20



Registration number: W6M22004-19834-C-1
 FCC ID: IPH-C2401



20DB BANDWIDTH CH78 EDR MODE
 Date: 11.JUL.2020 18:16:00

Limits:

| Frequency Range / MHz | Limit |
|-----------------------|-------------|
| 902-928 | ≤ 500 kHz |
| 2400-2483.5 | not defined |
| 5725-5850 | ≤ 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: W6M22004-19834-C-1
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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.

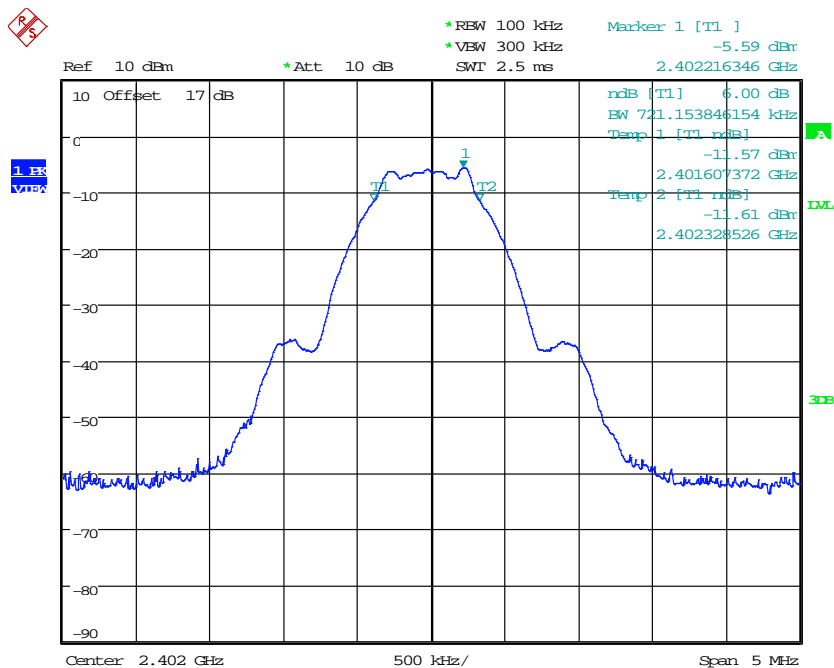
Test date: July 27, 2020

Temperature: 25.9 °C

Humidity: 49.2 %

Tester: Rick

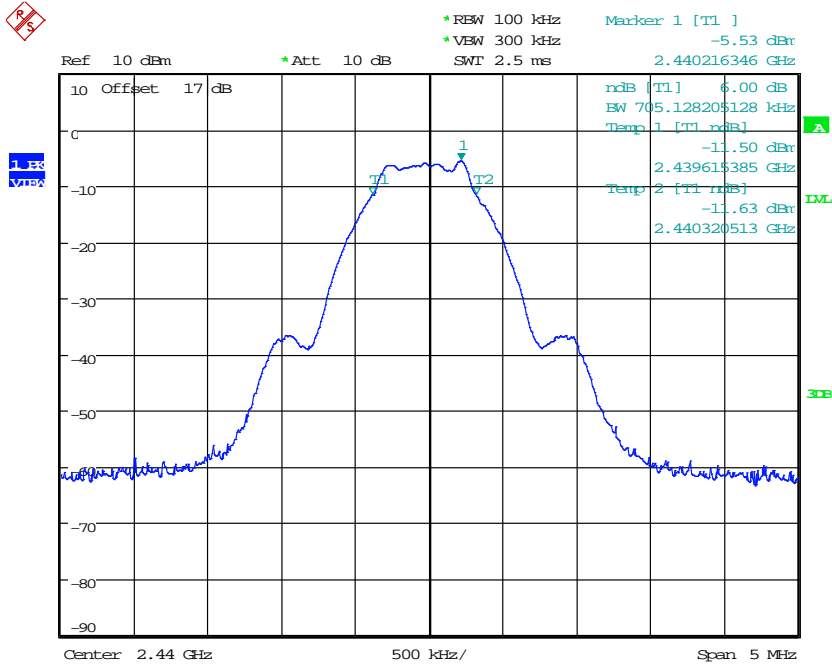
Bluetooth 4.0



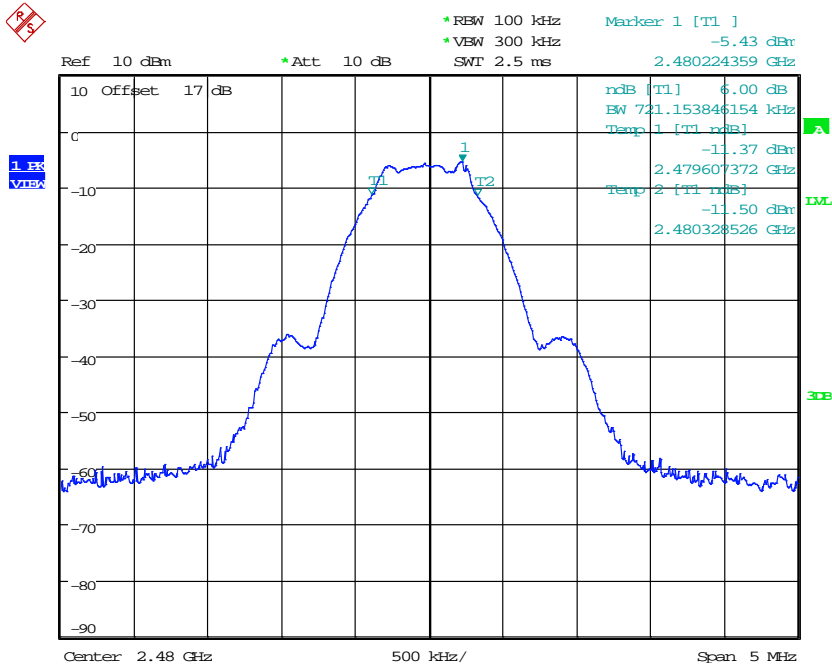
6DB BANDWIDTH BT4.0 CH00
Date: 27.JUL.2020 19:47:17



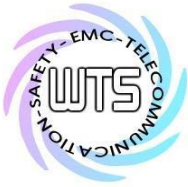
Registration number: W6M22004-19834-C-1
 FCC ID: IPH-C2401



6DB BANDWIDTH BT4.0 CH19
 Date: 27.JUL.2020 19:50:09



6DB BANDWIDTH BT4.0 CH39
 Date: 27.JUL.2020 19:51:07



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Limits:

| Frequency Range 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



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

3.11 Radiated Emission on the band edge

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

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

Test date: July 27, 2020

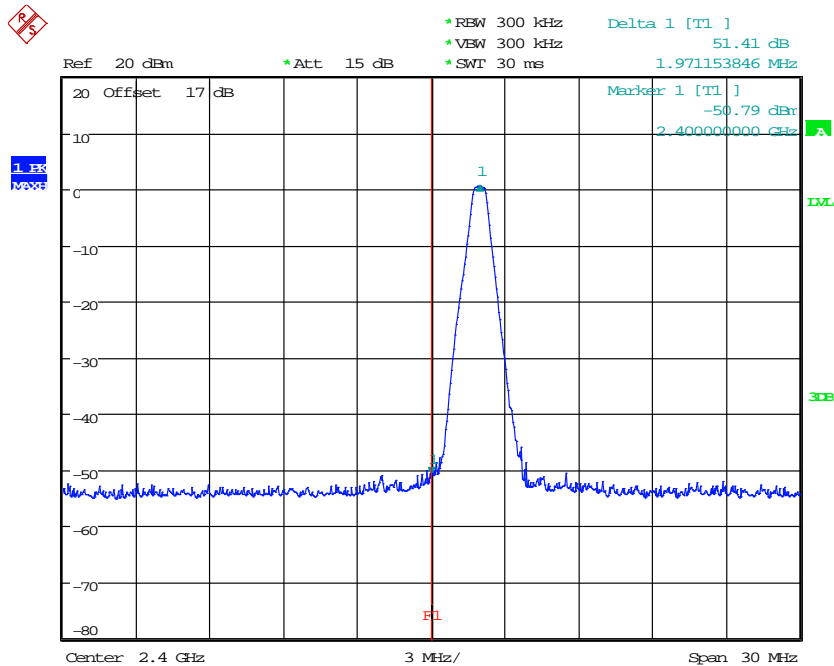
Temperature: 25.9 °C

Humidity: 49.2 %

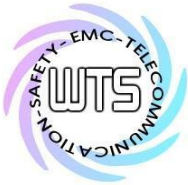
Tester: Rick

Bluetooth 2.0

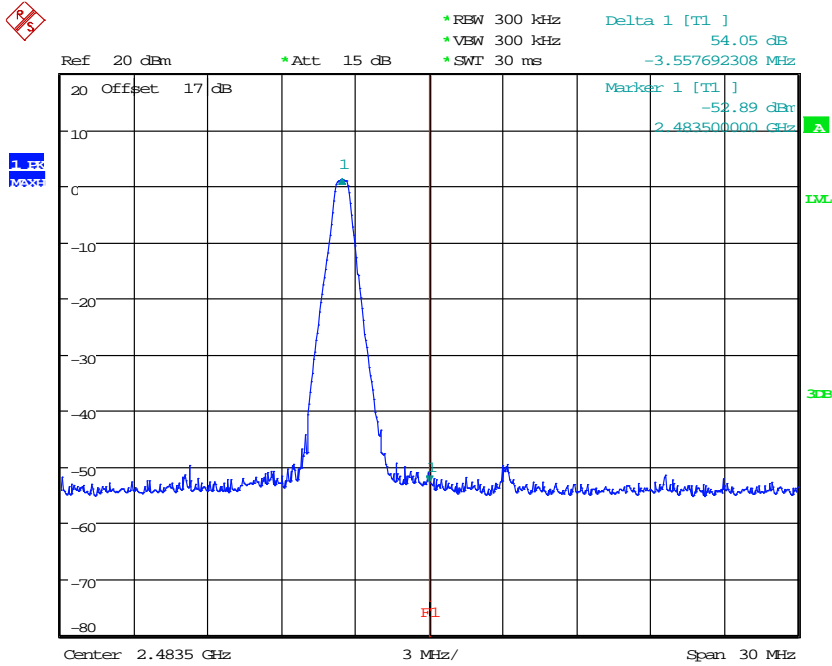
Normal mode



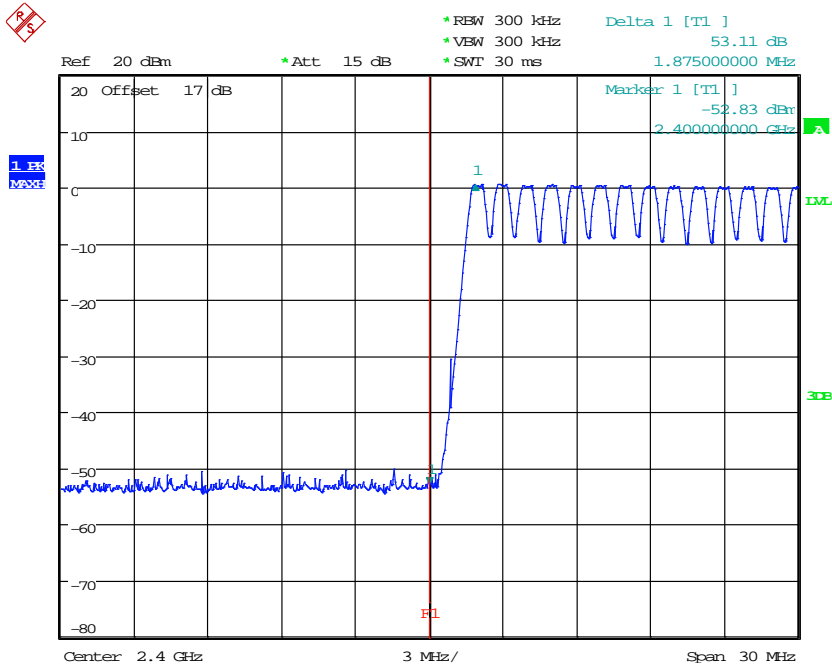
BANDEGE CH0
Date: 11.JUL.2020 17:57:12



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



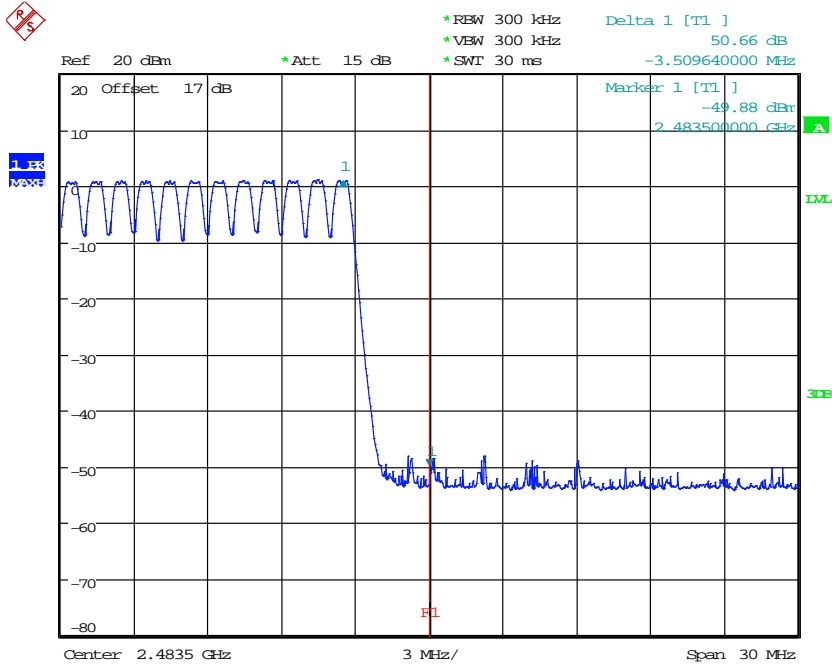
BANDEDGE CH78
Date: 11.JUL.2020 17:58:36



BANDEDGE CH0 HOPPING MODE
Date: 11.JUL.2020 18:34:37

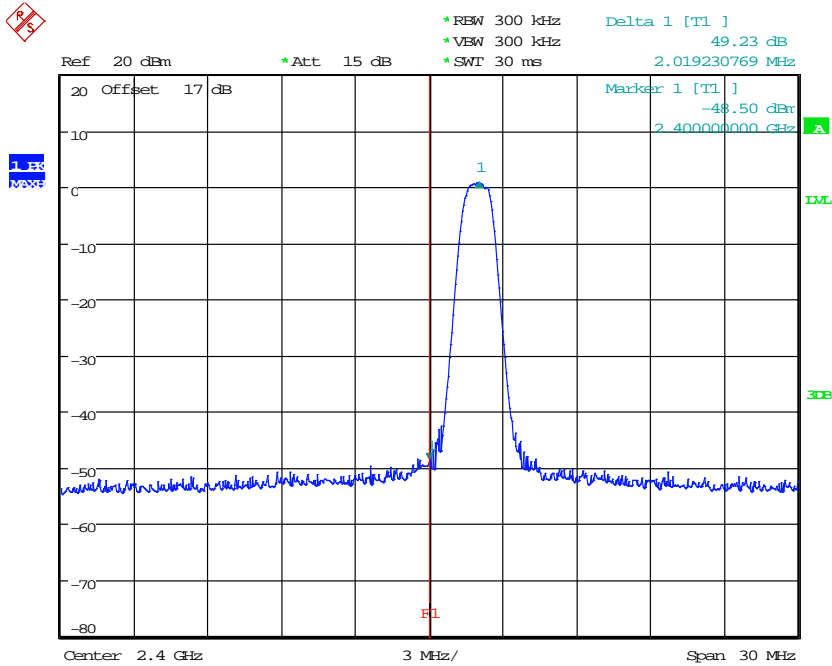


Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



BANDEDGE CH78 HOPPING MODE
Date: 11.JUL.2020 18:35:17

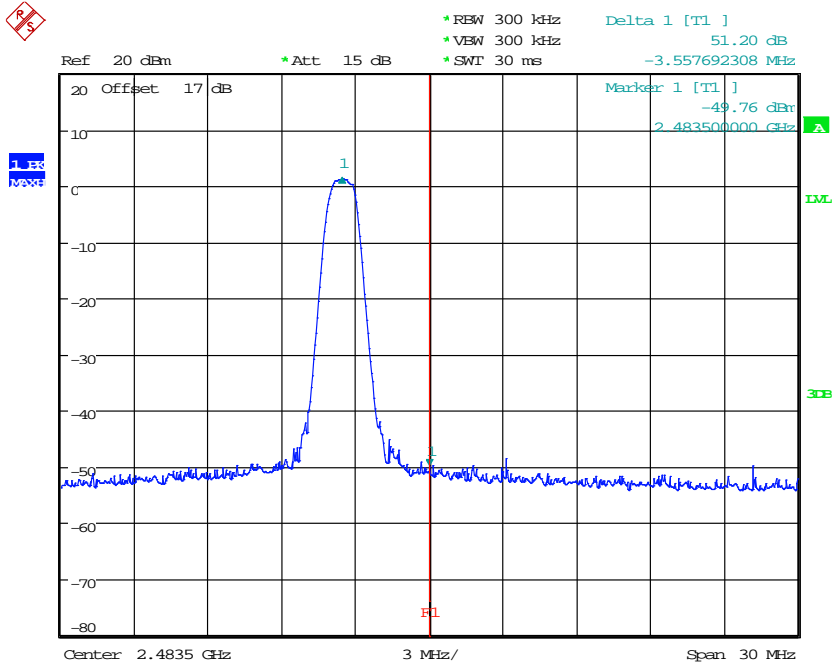
EDR mode



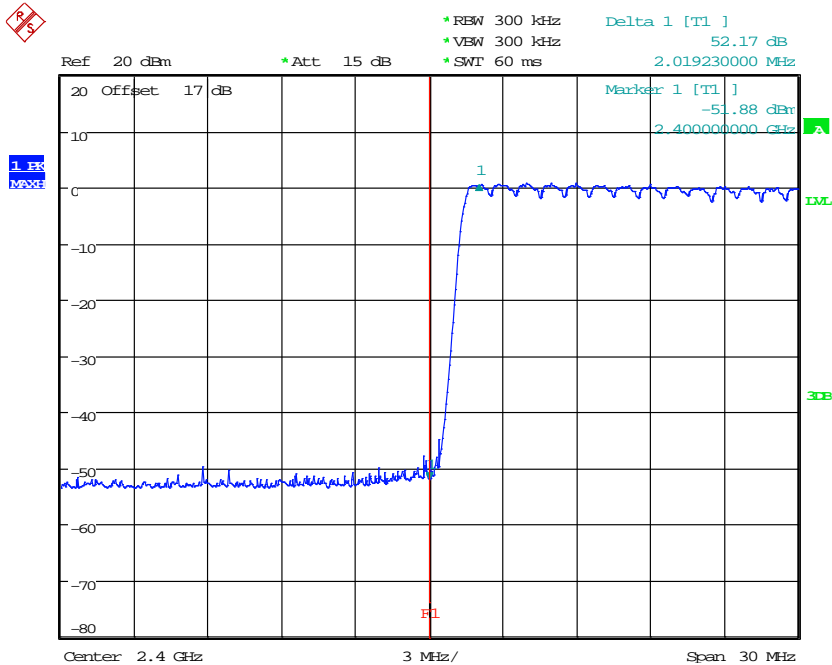
BANDEDGE CH0 EDR MODE
Date: 11.JUL.2020 18:12:16



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



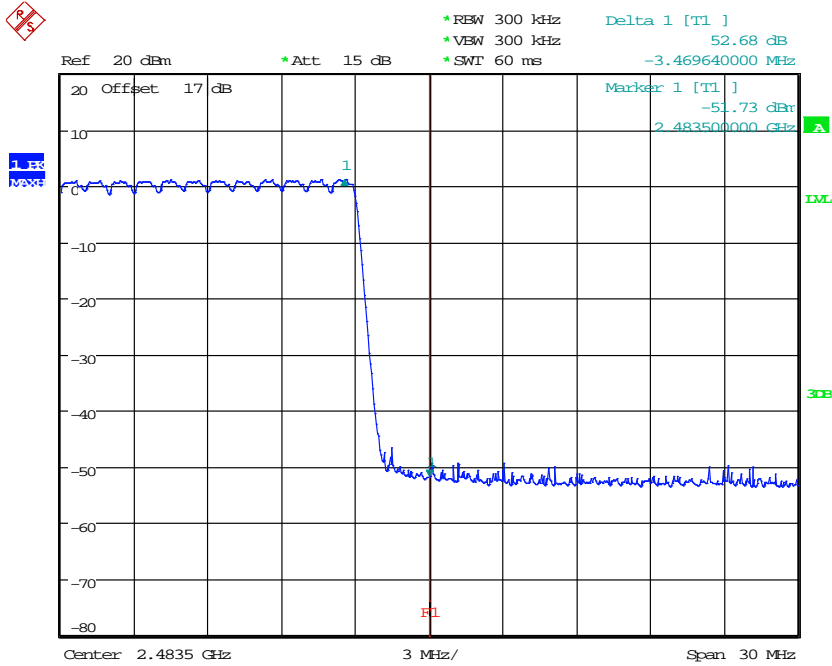
BANDEDGE CH78 EDR MODE
Date: 11.JUL.2020 18:16:17



BANDEDGE CH0 EDR HOPPING MODE
Date: 11.JUL.2020 18:18:16



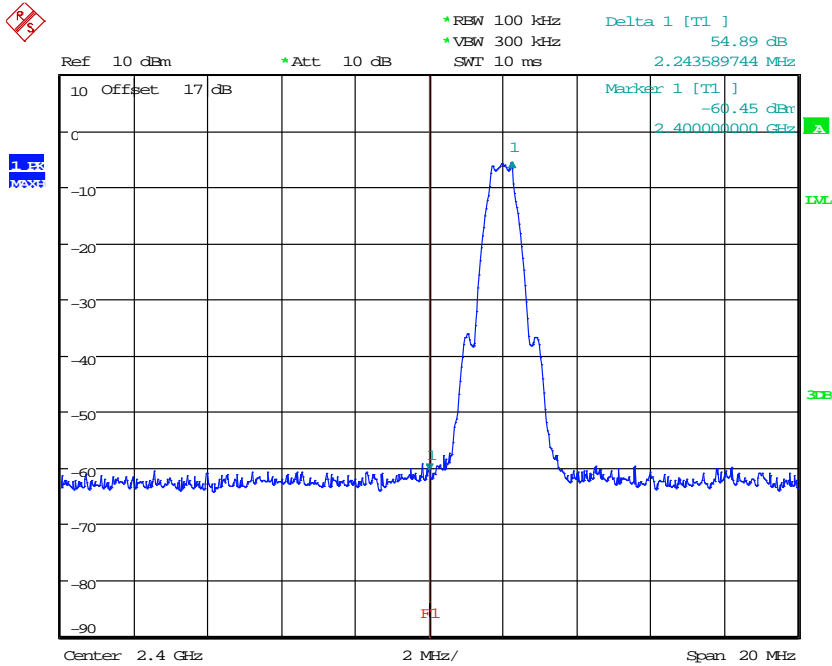
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



BANDEDGE CH78 EDR HOPPING MODE

Date: 11.JUL.2020 18:20:00

Bluetooth 4.0

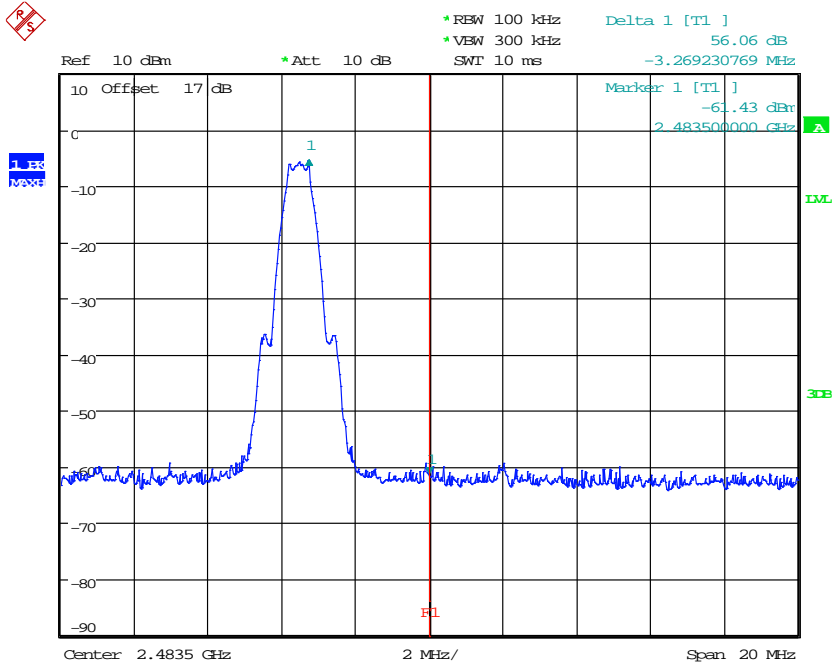


BANDEDGE BT4.0 CH00

Date: 27.JUL.2020 19:47:35



Registration number: W6M22004-19834-C-1
 FCC ID: IPH-C2401

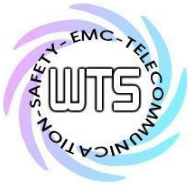


BANDEDGE BT4.0 CH39
 Date: 27.JUL.2020 19:51:25

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: W6M22004-19834-C-1
FCC ID: IPH-C2401

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.

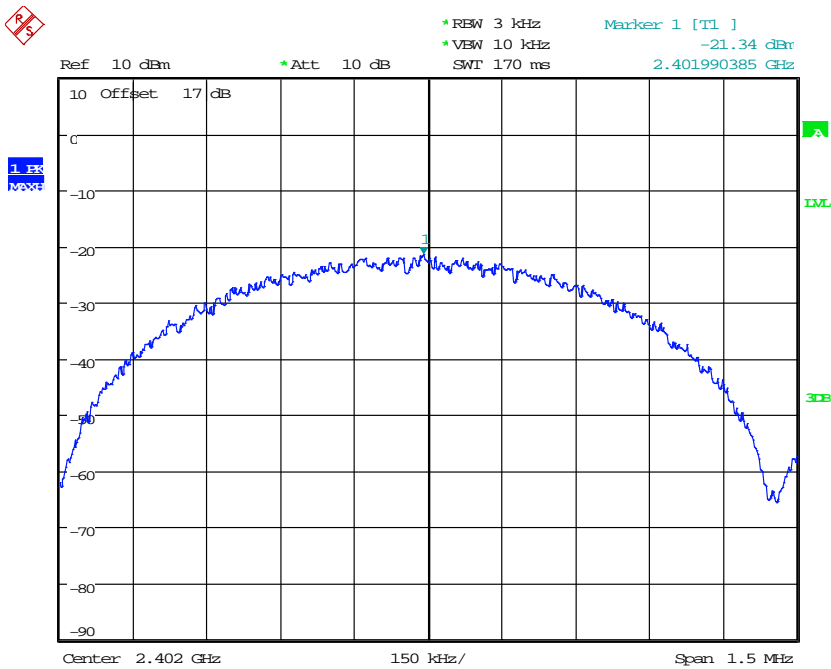
Test date: July 27, 2020

Temperature: 25.9 °C

Humidity: 49.2 %

Tester: Rick

Bluetooth 4.0

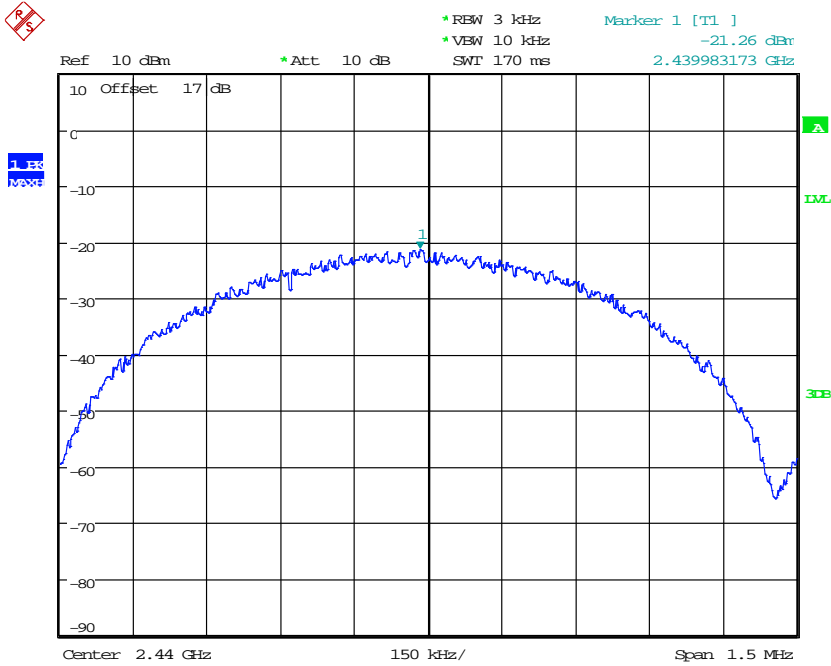


POWER DENSITY BT4.0 CH00
Date: 27.JUL.2020 19:47:27

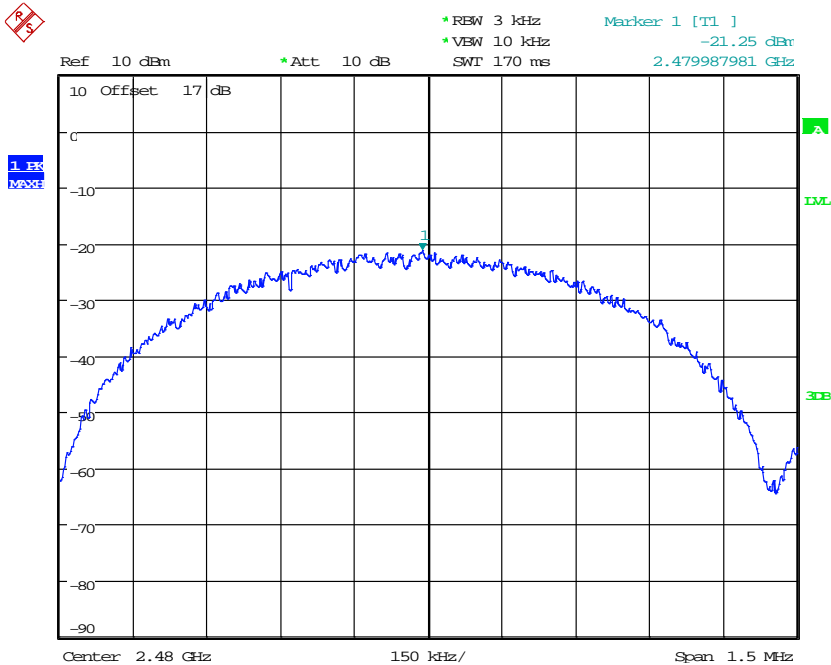


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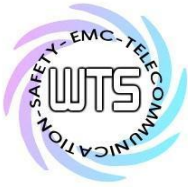
Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401



POWER DENSITY BT4.0 CH19
Date: 27.JUL.2020 19:50:19



POWER DENSITY BT4.0 CH39
Date: 27.JUL.2020 19:51:17



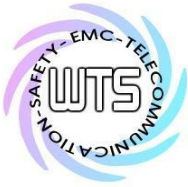
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Limits:

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

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



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

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

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

Explanation: Please refer to separated test report no.: W6M22004-19834-P-15B.



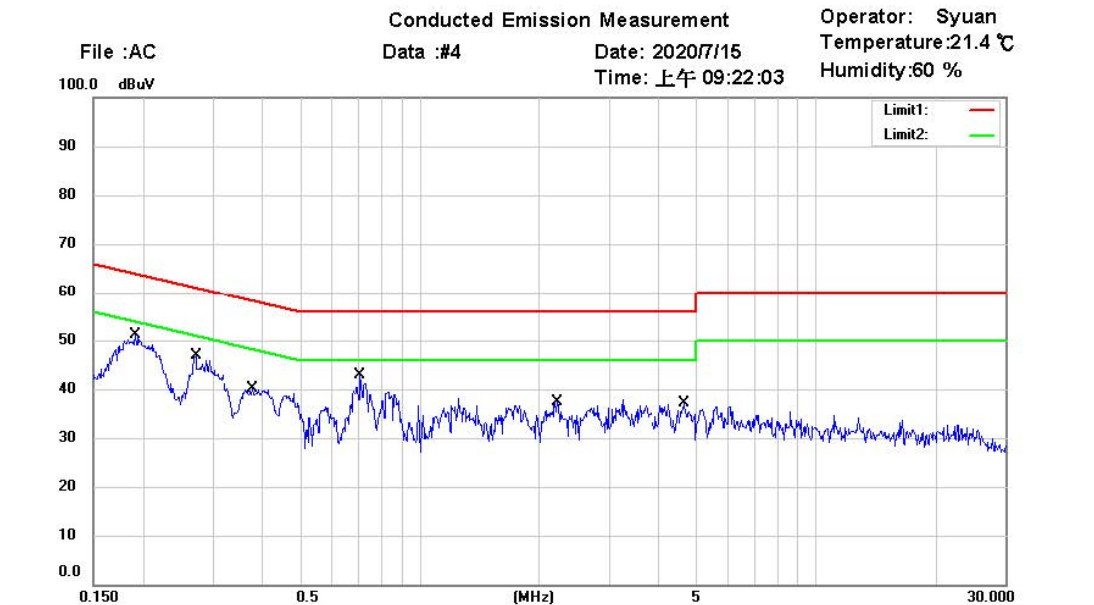
Registration number: W6M22004-19834-C-1
 FCC ID: IPH-C2401

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.

Charge



File : AC
 Data :#4
 Date: 2020/7/15
 Time: 上午 09:22:03
 Operator: Syuan
 Temperature:21.4 °C
 Humidity:60 %

Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP)
 EUT : W6M22004-19834
 M/N:
 Test Mode : Charge
 Note :

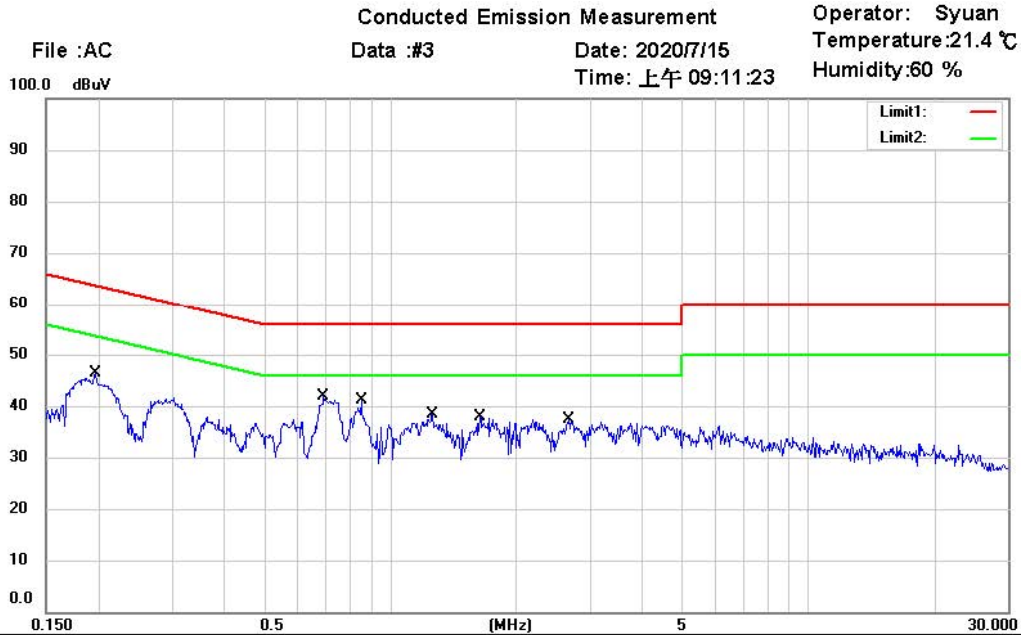
Phase: N
 Power : 120 V.a.c.

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1913 | 30.28 | QP | 9.58 | 39.86 | 63.98 | -24.12 | |
| | 0.1913 | 12.80 | AVG | 9.58 | 22.38 | 53.98 | -31.60 | |
| | 0.2710 | 22.95 | QP | 9.57 | 32.52 | 61.09 | -28.57 | |
| | 0.2710 | 6.87 | AVG | 9.57 | 16.44 | 51.09 | -34.65 | |
| | 0.3785 | 18.44 | QP | 9.55 | 27.99 | 58.31 | -30.32 | |
| | 0.3785 | 3.50 | AVG | 9.55 | 13.05 | 48.31 | -35.26 | |
| | 0.7070 | 22.26 | QP | 9.51 | 31.77 | 56.00 | -24.23 | |
| * | 0.7070 | 12.46 | AVG | 9.51 | 21.97 | 46.00 | -24.03 | |
| | 2.2145 | 16.11 | QP | 9.41 | 25.52 | 56.00 | -30.48 | |
| | 2.2145 | 4.74 | AVG | 9.41 | 14.15 | 46.00 | -31.85 | |
| | 4.6265 | 15.45 | QP | 9.97 | 25.42 | 56.00 | -30.58 | |
| | 4.6265 | 4.76 | AVG | 9.97 | 14.73 | 46.00 | -31.27 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1
 FCC ID: IPH-C2401



Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
 EUT : W6M22004-19834 Power : 120 V.a.c.
 M/N:
 Test Mode : Charge
 Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1960 | 26.15 | QP | 9.60 | 35.75 | 63.78 | -28.03 | |
| | 0.1960 | 9.86 | AVG | 9.60 | 19.46 | 53.78 | -34.32 | |
| * | 0.6934 | 22.64 | QP | 9.53 | 32.17 | 56.00 | -23.83 | |
| | 0.6934 | 11.87 | AVG | 9.53 | 21.40 | 46.00 | -24.60 | |
| | 0.8510 | 19.21 | QP | 9.51 | 28.72 | 56.00 | -27.28 | |
| | 0.8510 | 7.55 | AVG | 9.51 | 17.06 | 46.00 | -28.94 | |
| | 1.2560 | 17.21 | QP | 9.47 | 26.68 | 56.00 | -29.32 | |
| | 1.2560 | 6.08 | AVG | 9.47 | 15.55 | 46.00 | -30.45 | |
| | 1.6385 | 15.03 | QP | 9.45 | 24.48 | 56.00 | -31.52 | |
| | 1.6385 | 3.38 | AVG | 9.45 | 12.83 | 46.00 | -33.17 | |
| | 2.6600 | 16.55 | QP | 9.46 | 26.01 | 56.00 | -29.99 | |
| | 2.6600 | 5.34 | AVG | 9.46 | 14.80 | 46.00 | -31.20 | |

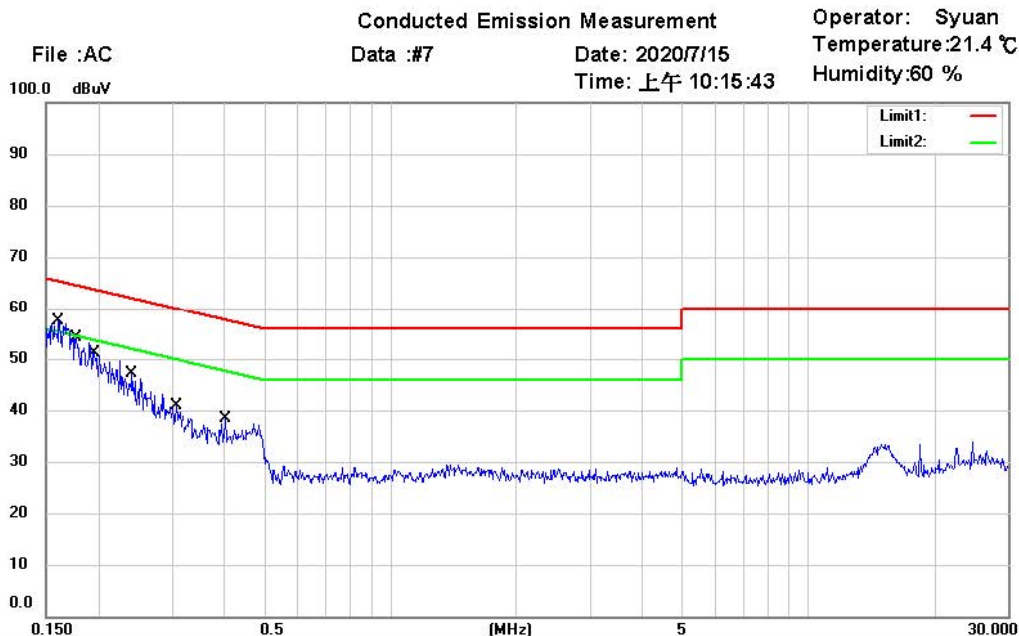


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22004-19834-C-1

FCC ID: IPH-C2401

Data



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22004-19834

Power : 120 V.a.c.

M/N:

Test Mode : Data

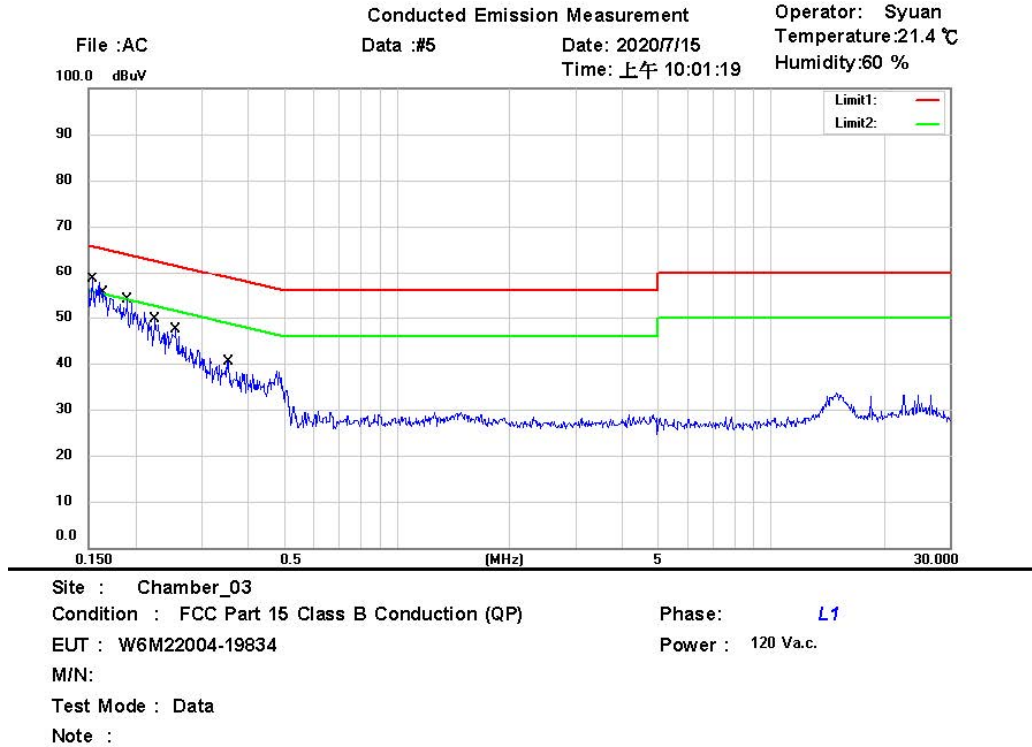
Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| * | 0.1607 | 40.08 | QP | 9.59 | 49.67 | 65.43 | -15.76 | |
| | 0.1607 | 22.06 | AVG | 9.59 | 31.65 | 55.43 | -23.78 | |
| | 0.1766 | 36.60 | QP | 9.58 | 46.18 | 64.64 | -18.46 | |
| | 0.1766 | 14.69 | AVG | 9.58 | 24.27 | 54.64 | -30.37 | |
| | 0.1946 | 36.70 | QP | 9.58 | 46.28 | 63.84 | -17.56 | |
| | 0.1946 | 15.54 | AVG | 9.58 | 25.12 | 53.84 | -28.72 | |
| | 0.2403 | 27.98 | QP | 9.57 | 37.55 | 62.09 | -24.54 | |
| | 0.2403 | 9.08 | AVG | 9.57 | 18.65 | 52.09 | -33.44 | |
| | 0.3055 | 21.50 | QP | 9.56 | 31.06 | 60.09 | -29.03 | |
| | 0.3055 | 6.66 | AVG | 9.56 | 16.22 | 50.09 | -33.87 | |
| | 0.4032 | 17.67 | QP | 9.55 | 27.22 | 57.79 | -30.57 | |
| | 0.4032 | 5.91 | AVG | 9.55 | 15.46 | 47.79 | -32.33 | |



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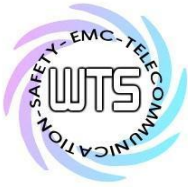
| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| * | 0.1528 | 38.71 | QP | 9.61 | 48.32 | 65.85 | -17.53 | |
| | 0.1528 | 21.44 | AVG | 9.61 | 31.05 | 55.85 | -24.80 | |
| | 0.1650 | 37.22 | QP | 9.61 | 46.83 | 65.21 | -18.38 | |
| | 0.1650 | 18.71 | AVG | 9.61 | 28.32 | 55.21 | -26.89 | |
| | 0.1900 | 33.19 | QP | 9.60 | 42.79 | 64.04 | -21.25 | |
| | 0.1900 | 15.79 | AVG | 9.60 | 25.39 | 54.04 | -28.65 | |
| | 0.2250 | 26.95 | QP | 9.60 | 36.55 | 62.63 | -26.08 | |
| | 0.2250 | 10.37 | AVG | 9.60 | 19.97 | 52.63 | -32.66 | |
| | 0.2558 | 25.01 | QP | 9.59 | 34.60 | 61.57 | -26.97 | |
| | 0.2558 | 9.24 | AVG | 9.59 | 18.83 | 51.57 | -32.74 | |
| | 0.3540 | 17.62 | QP | 9.58 | 27.20 | 58.87 | -31.67 | |
| | 0.3540 | 6.08 | AVG | 9.58 | 15.66 | 48.87 | -33.21 | |

- 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.

Limits:

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

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



Registration number: W6M22004-19834-C-1
FCC ID: IPH-C2401

Appendix

Measurement diagrams

Spurious Emissions radiated



Radiated Emission Measurement

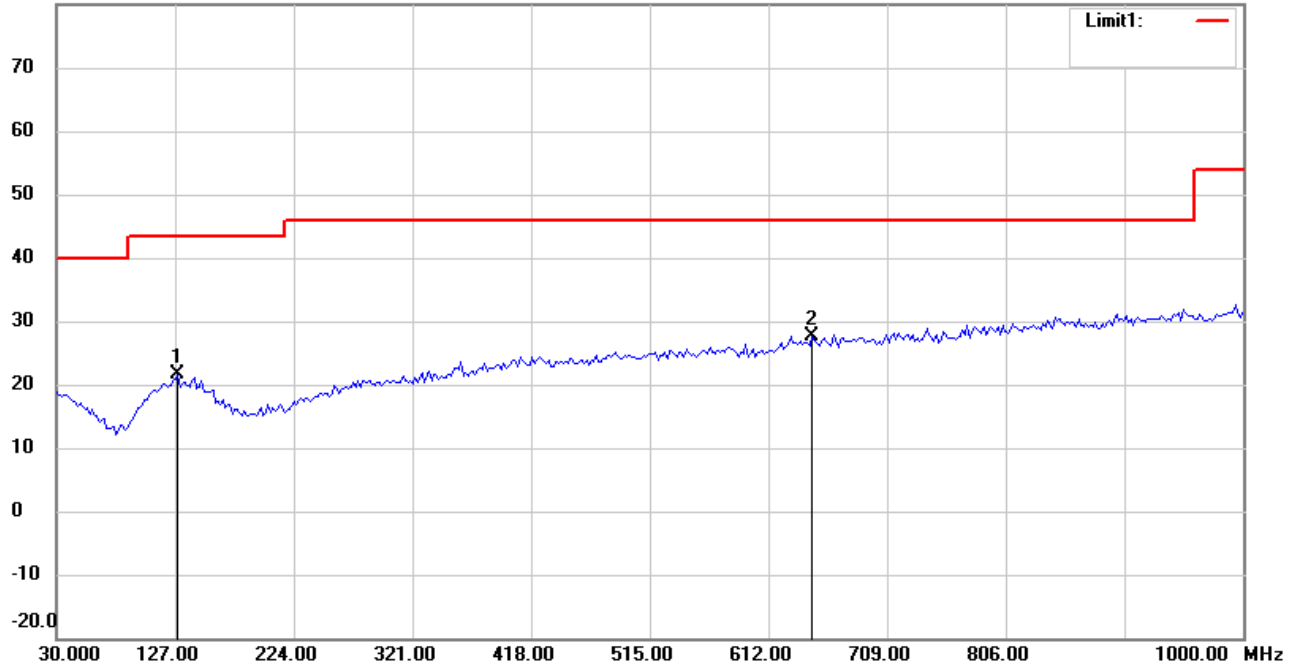
Operator: Sky

File :1_BT2
 80.0 dBuV/m

Data :#1

Date: 7/21/2020
 Time: 6:59:30 PM

Temperature:27.0 °C
 Humidity:49.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22004-19834

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 129.1383 | 28.64 | peak | -6.93 | 21.71 | 43.50 | 100 | 170 | -21.79 | |
| * | 648.1563 | 27.98 | peak | -0.38 | 27.60 | 46.00 | 100 | 320 | -18.40 | |



Radiated Emission Measurement

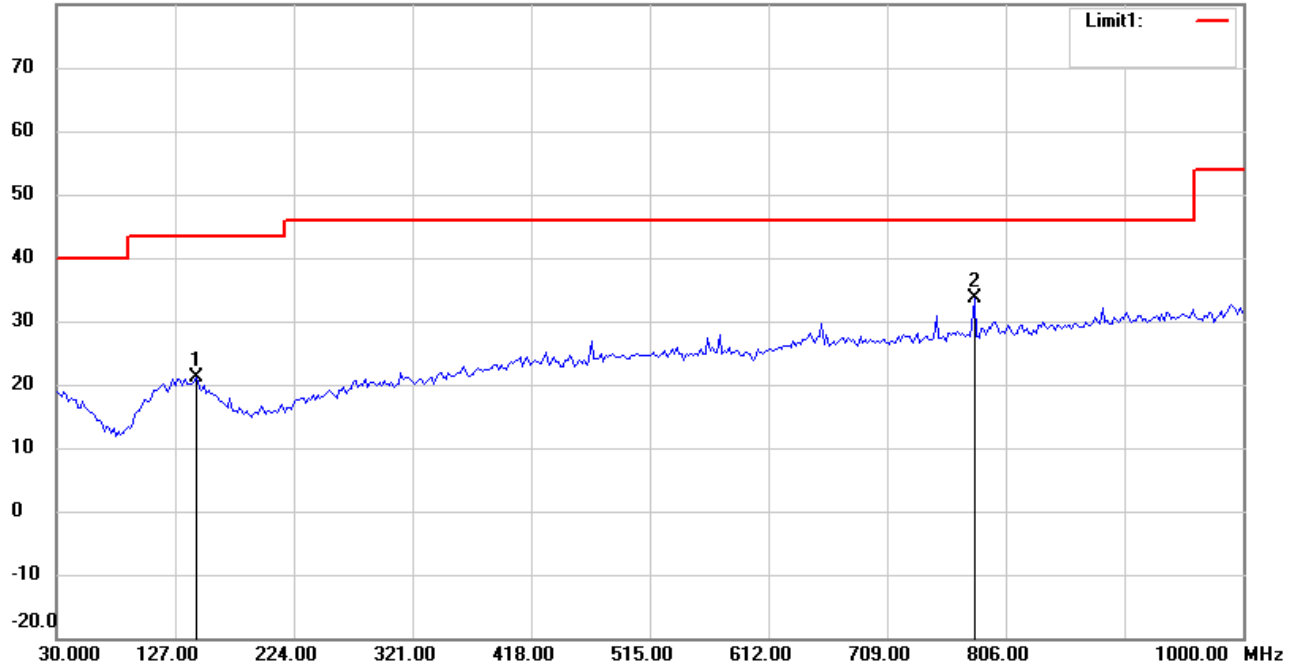
Operator: Sky

File :1_BT2
 80.0 dBuV/m

Data :#2

Date: 7/21/2020
 Time: 7:01:16 PM

Temperature:27.0 °C
 Humidity:49.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22004-19834

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 144.6894 | 28.03 | peak | -7.00 | 21.03 | 43.50 | 100 | 140 | -22.47 | |
| * | 780.3407 | 32.37 | peak | 1.24 | 33.61 | 46.00 | 100 | 260 | -12.39 | |



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

Operator: Vincent

File :3

Data :#1

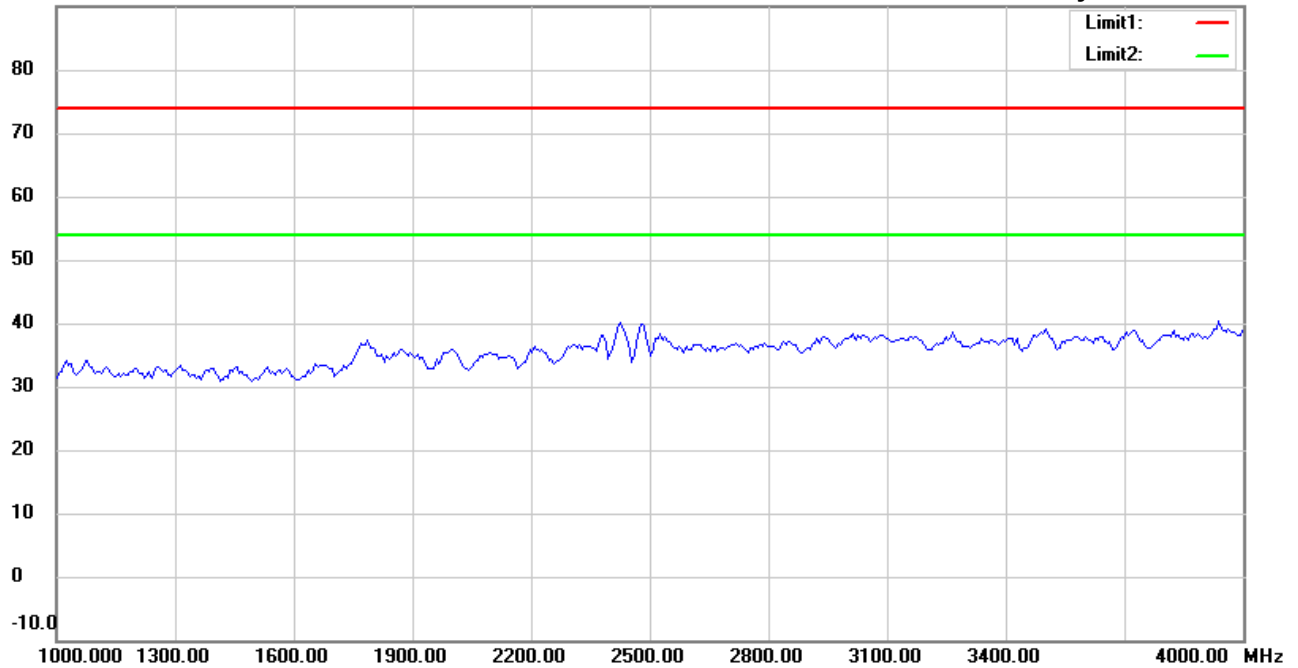
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:42:44 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

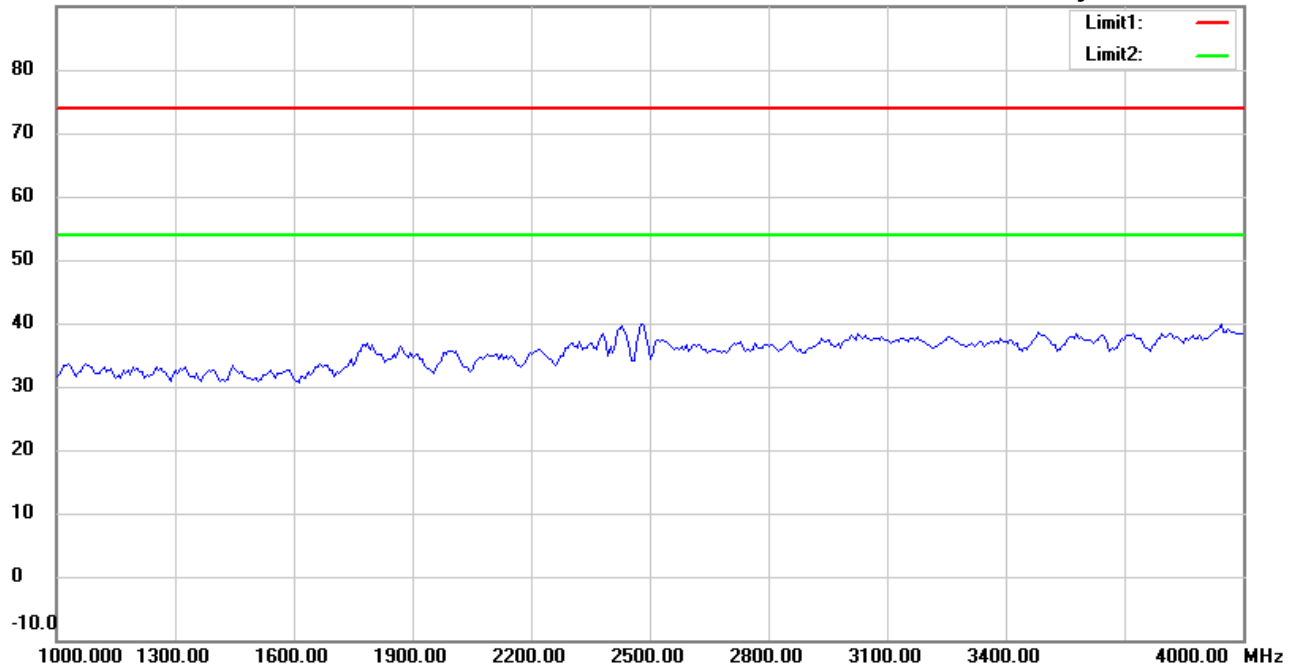
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:46:18 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

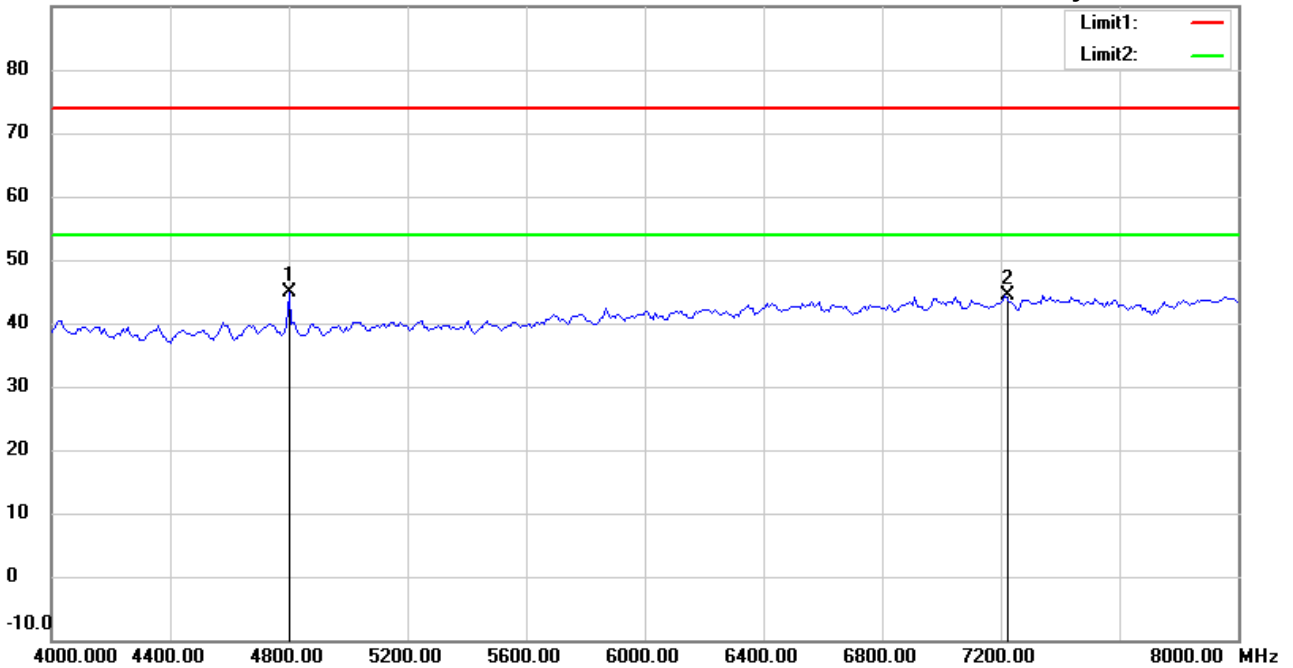
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:43:45 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 4801.603 | 46.65 | peak | -1.86 | 44.79 | 74.00 | 150 | 319 | -29.21 | |
| | 7214.429 | 41.22 | peak | 3.25 | 44.47 | 74.00 | 150 | 333 | -29.53 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

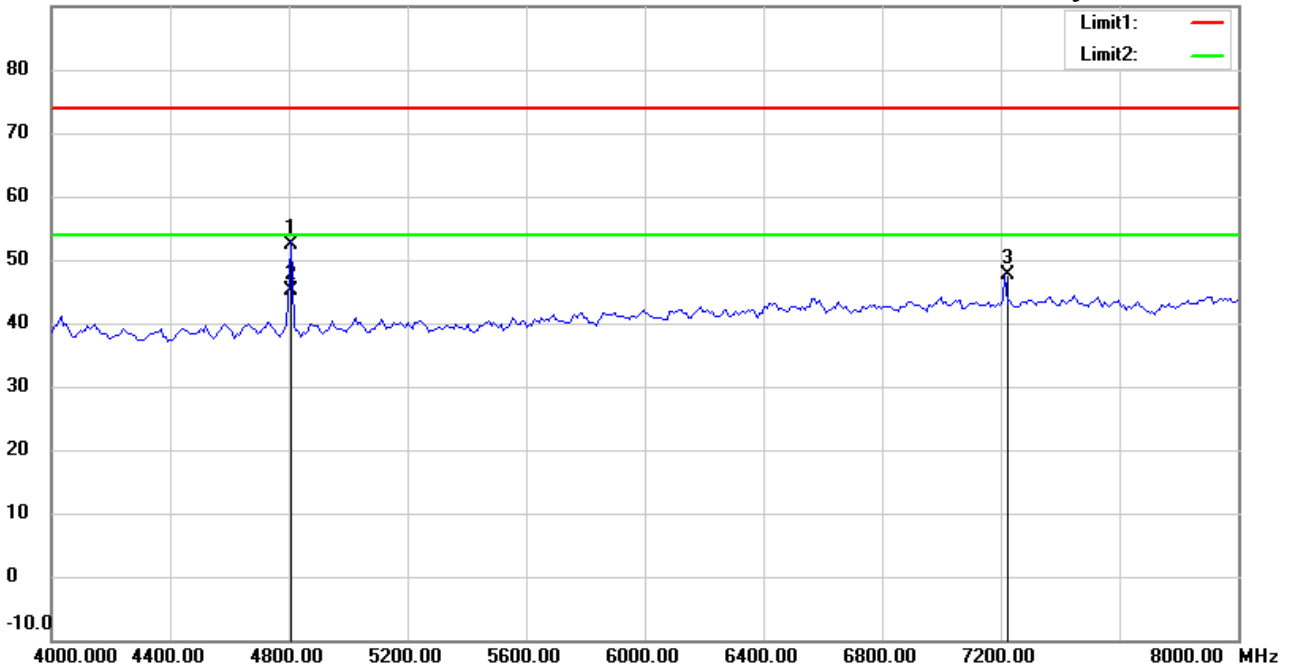
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:47:19 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4806.019 | 54.22 | peak | -1.84 | 52.38 | 74.00 | 150 | 175 | -21.62 | |
| * | 4806.019 | 46.97 | AVG | -1.84 | 45.13 | 54.00 | 150 | 175 | -8.87 | |
| | 7214.429 | 44.48 | peak | 3.25 | 47.73 | 74.00 | 150 | 138 | -26.27 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

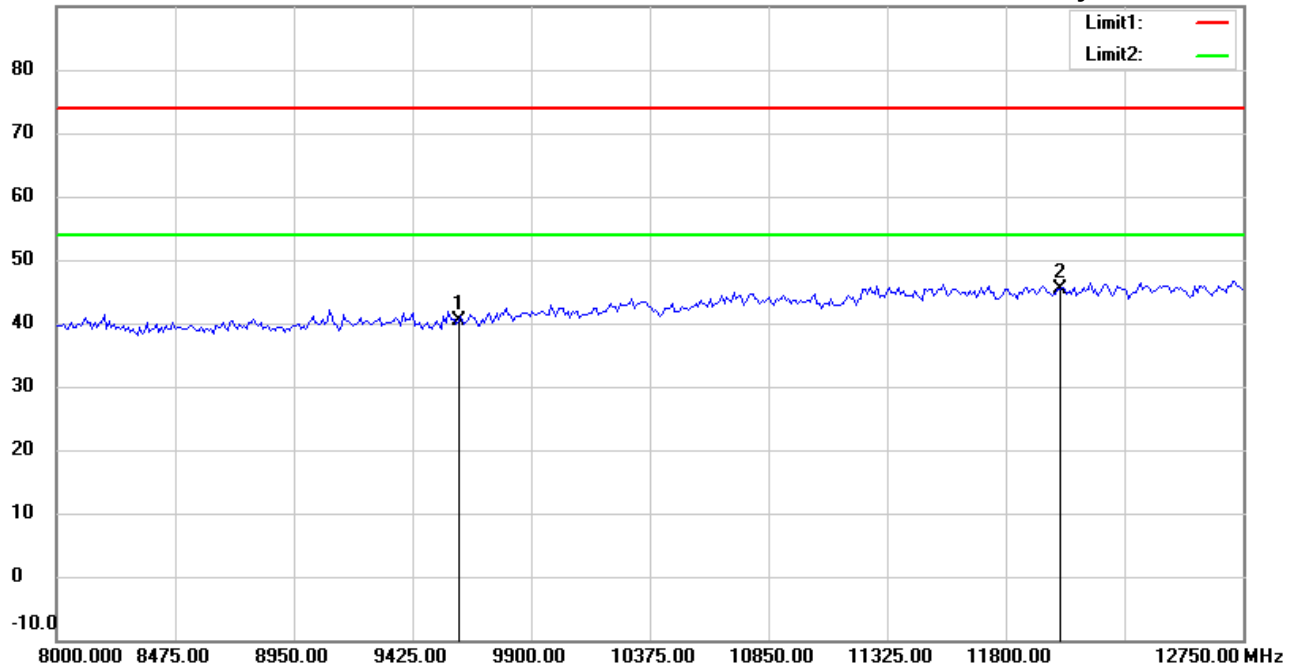
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:44:52 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9608.000 | 33.73 | peak | 6.63 | 40.36 | 74.00 | 150 | 228 | -33.64 | |
| * | 12010.000 | 33.89 | peak | 11.61 | 45.50 | 74.00 | 150 | 132 | -28.50 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

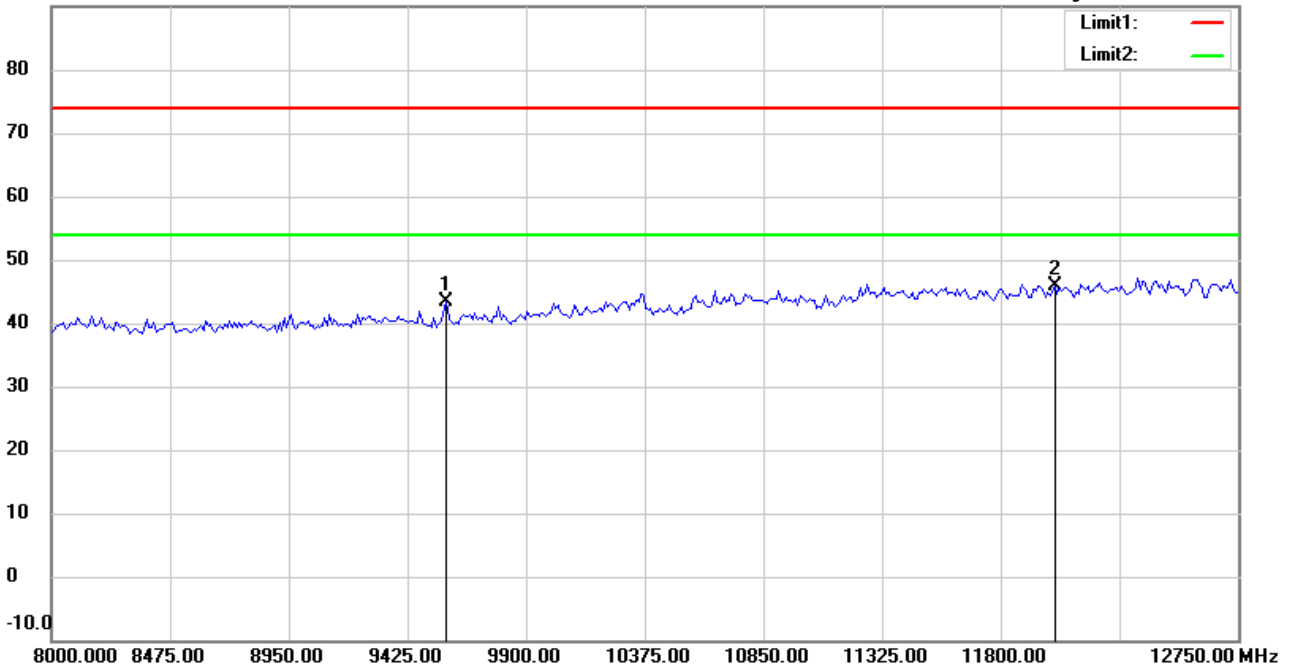
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:48:19 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9580.160 | 36.96 | peak | 6.51 | 43.47 | 74.00 | 150 | 168 | -30.53 | |
| * | 12010.000 | 34.22 | peak | 11.61 | 45.83 | 74.00 | 150 | 248 | -28.17 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

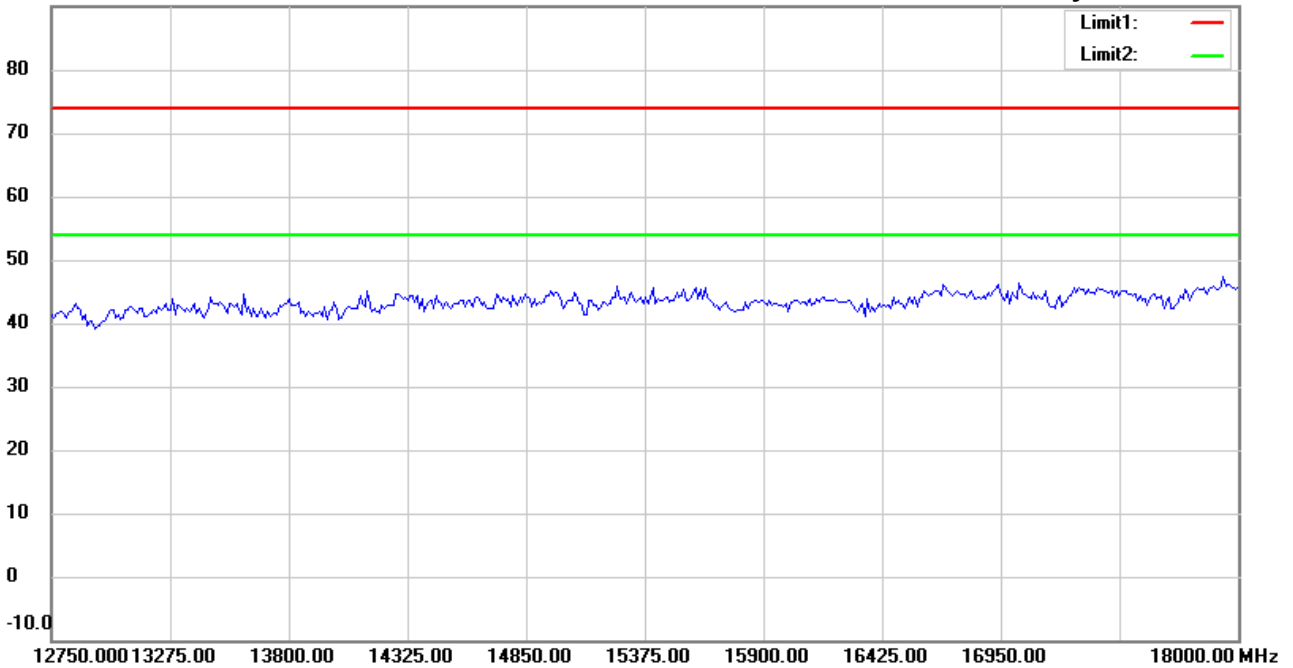
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:45:07 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

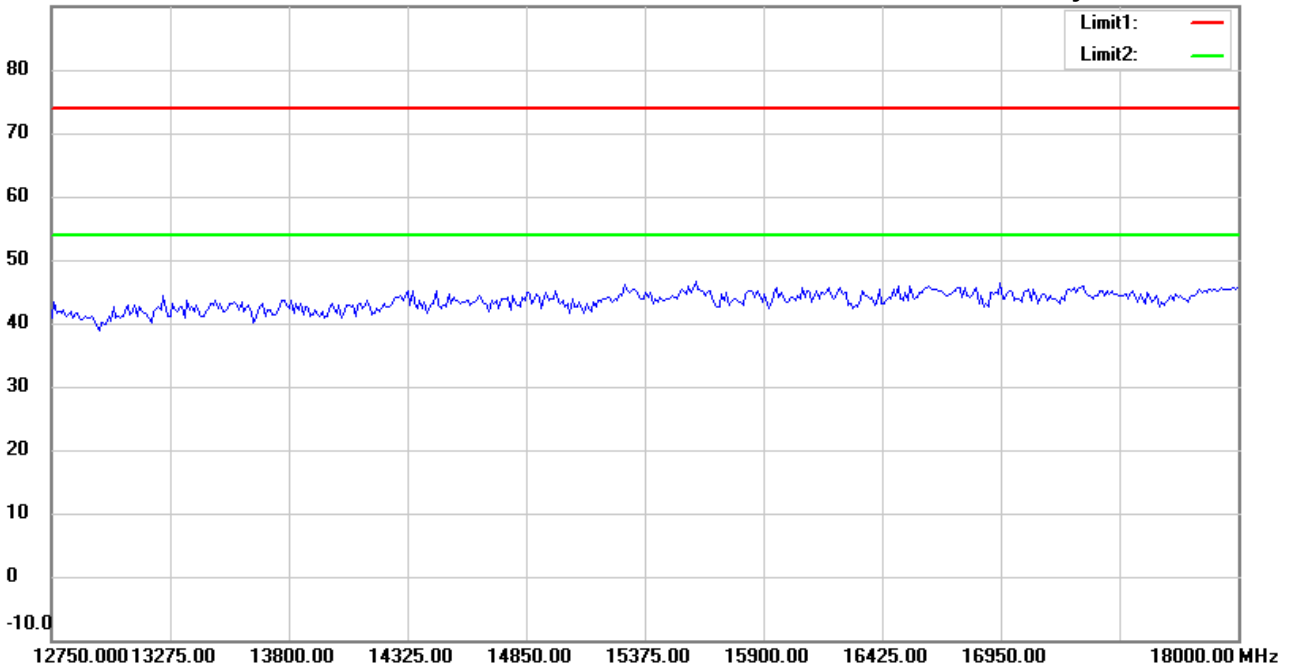
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:48:33 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

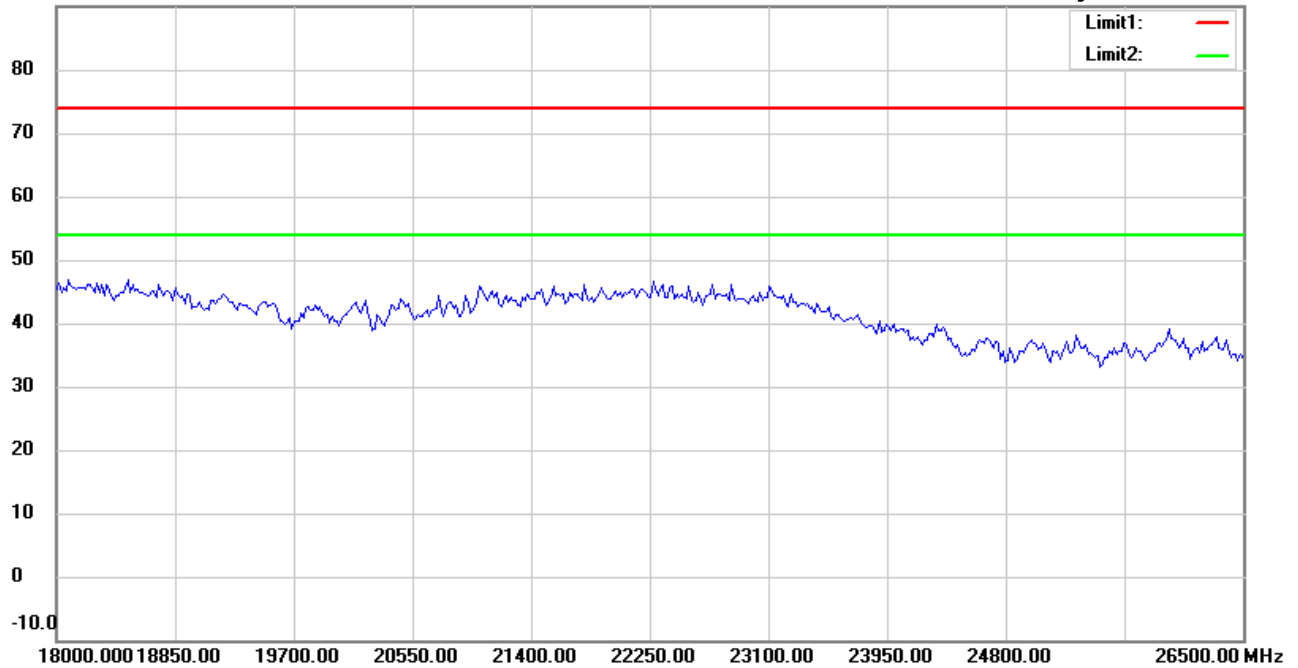
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:45:17 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

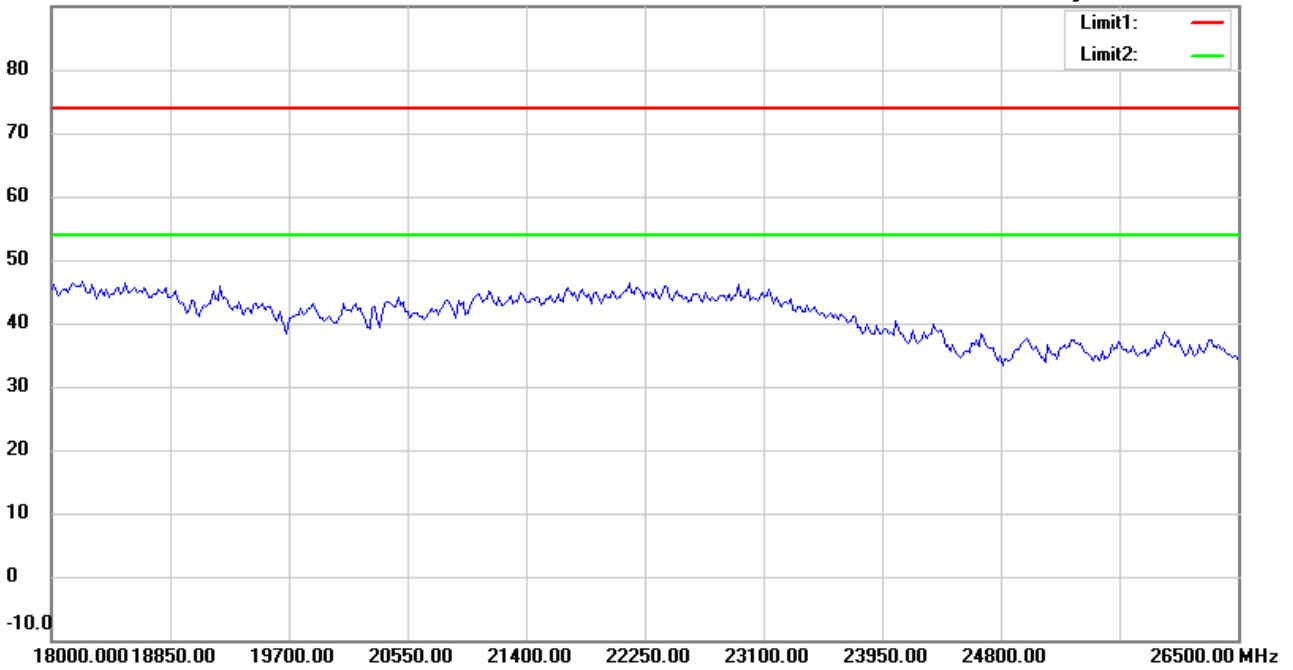
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 3:48:44 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

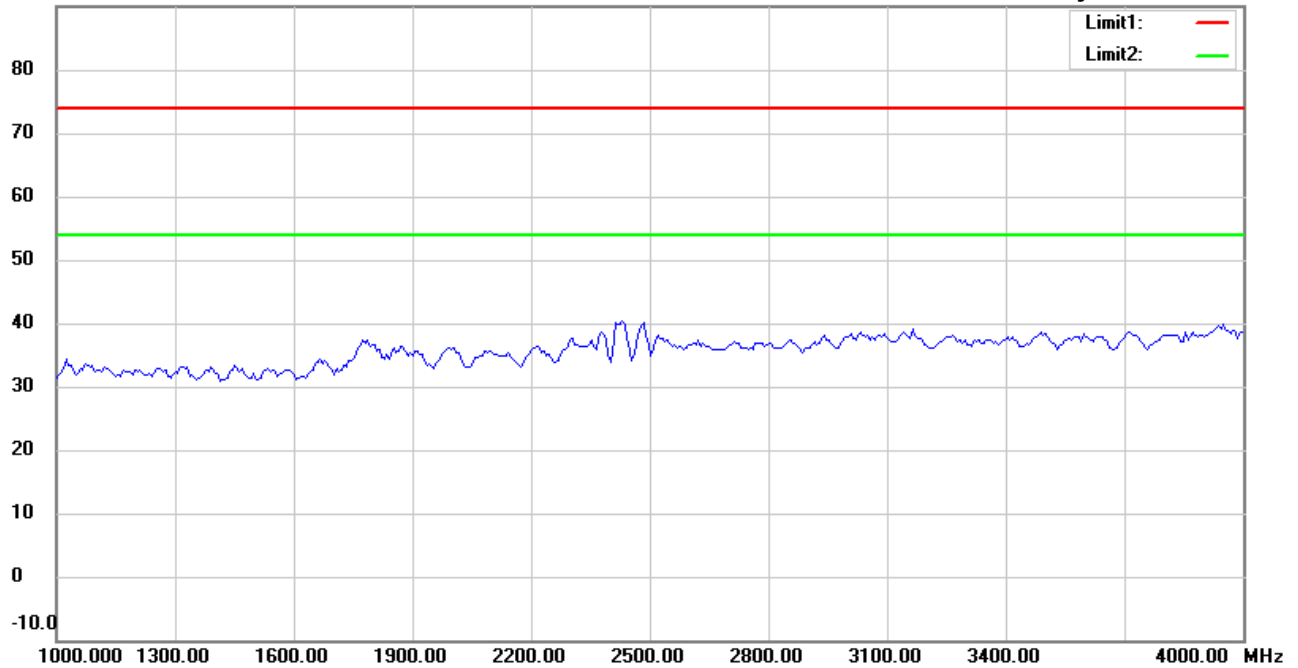
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:05:31 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

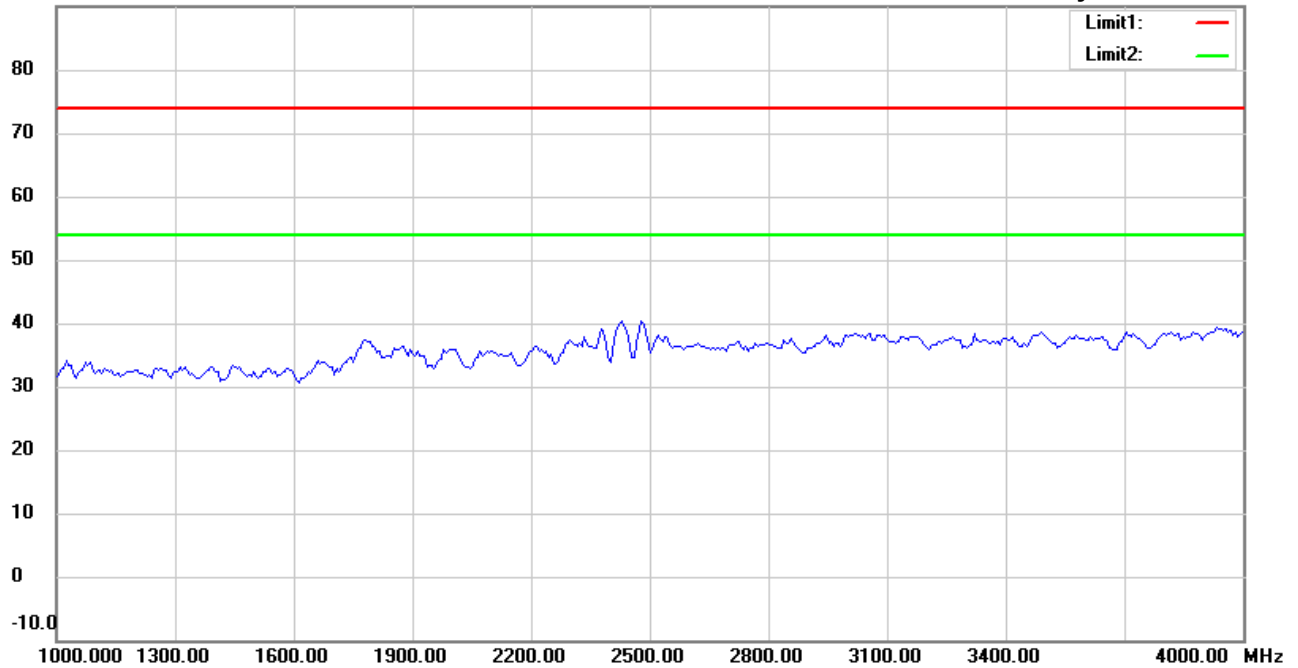
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:09:05 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

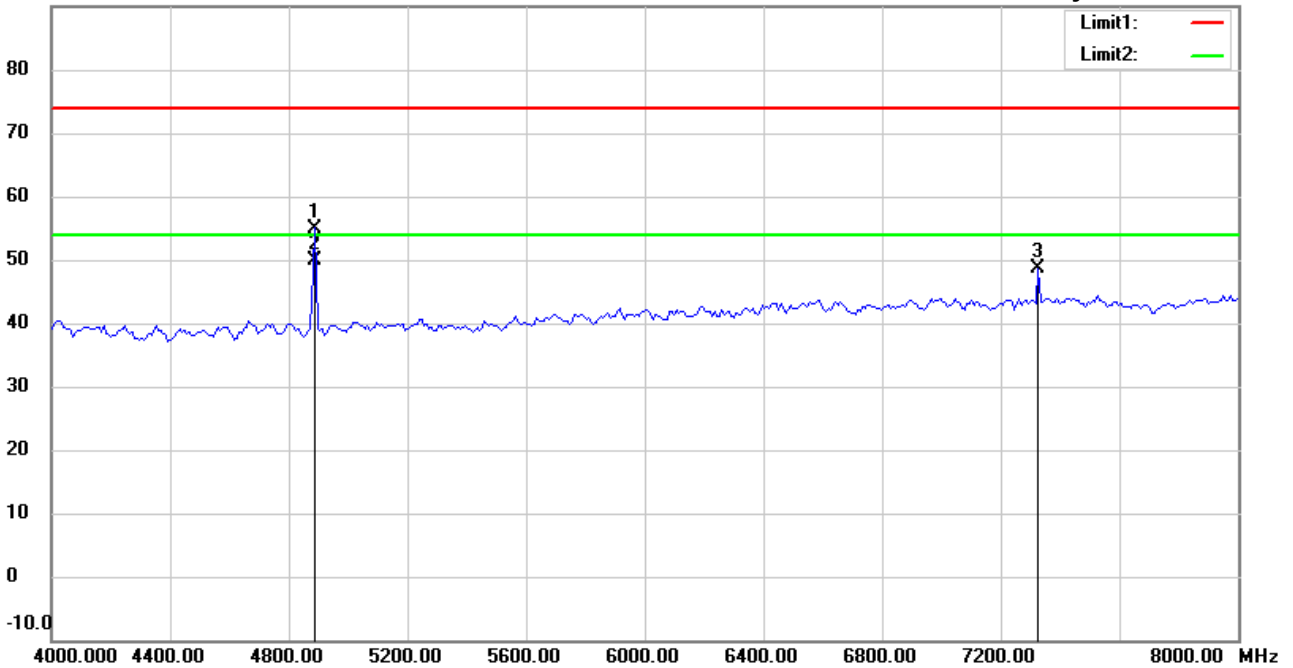
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:06:32 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4881.997 | 56.42 | peak | -1.66 | 54.76 | 74.00 | 218 | 135 | -19.24 | |
| * | 4881.997 | 51.44 | AVG | -1.66 | 49.78 | 54.00 | 218 | 135 | -4.22 | |
| | 7323.000 | 45.15 | peak | 3.46 | 48.61 | 74.00 | 150 | 311 | -25.39 | |



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

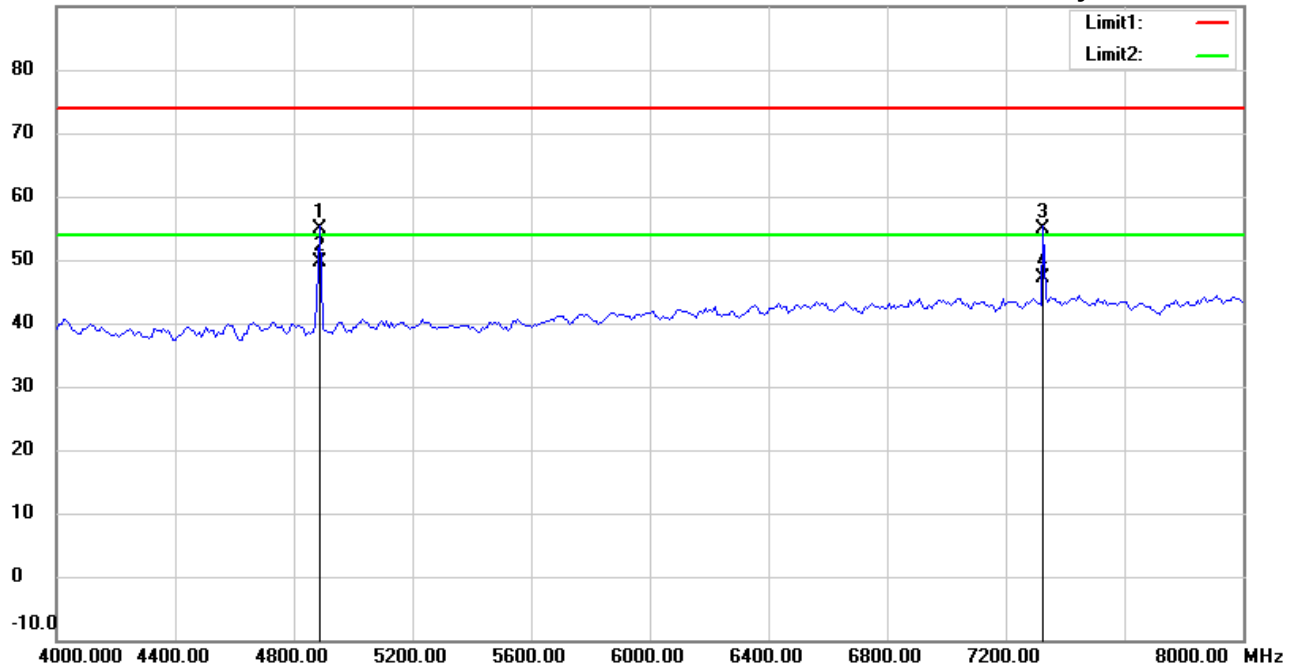
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:10:06 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4882.017 | 56.48 | peak | -1.65 | 54.83 | 74.00 | 200 | 150 | -19.17 | |
| * | 4882.017 | 51.29 | AVG | -1.65 | 49.64 | 54.00 | 200 | 150 | -4.36 | |
| | 7322.950 | 51.47 | peak | 3.46 | 54.93 | 74.00 | 150 | 225 | -19.07 | |
| | 7322.950 | 43.61 | AVG | 3.46 | 47.07 | 54.00 | 150 | 225 | -6.93 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

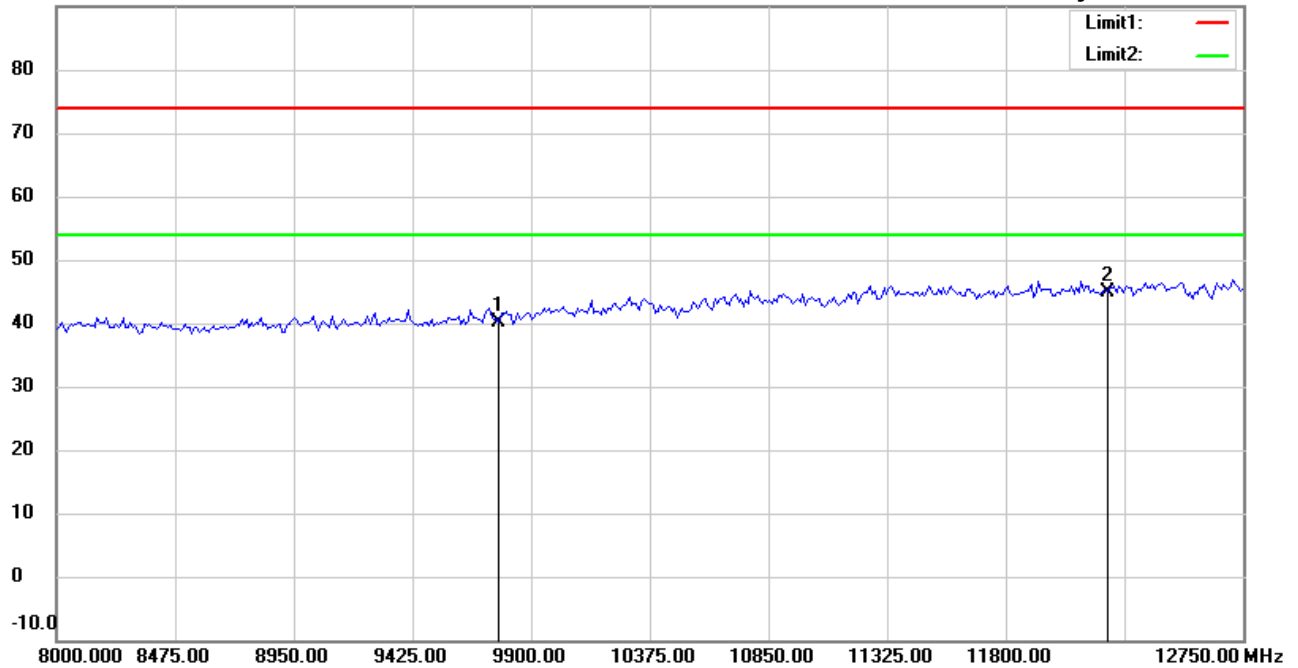
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:07:39 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9764.000 | 33.36 | peak | 6.77 | 40.13 | 74.00 | 150 | 226 | -33.87 | |
| * | 12205.000 | 32.04 | peak | 12.91 | 44.95 | 74.00 | 150 | 145 | -29.05 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

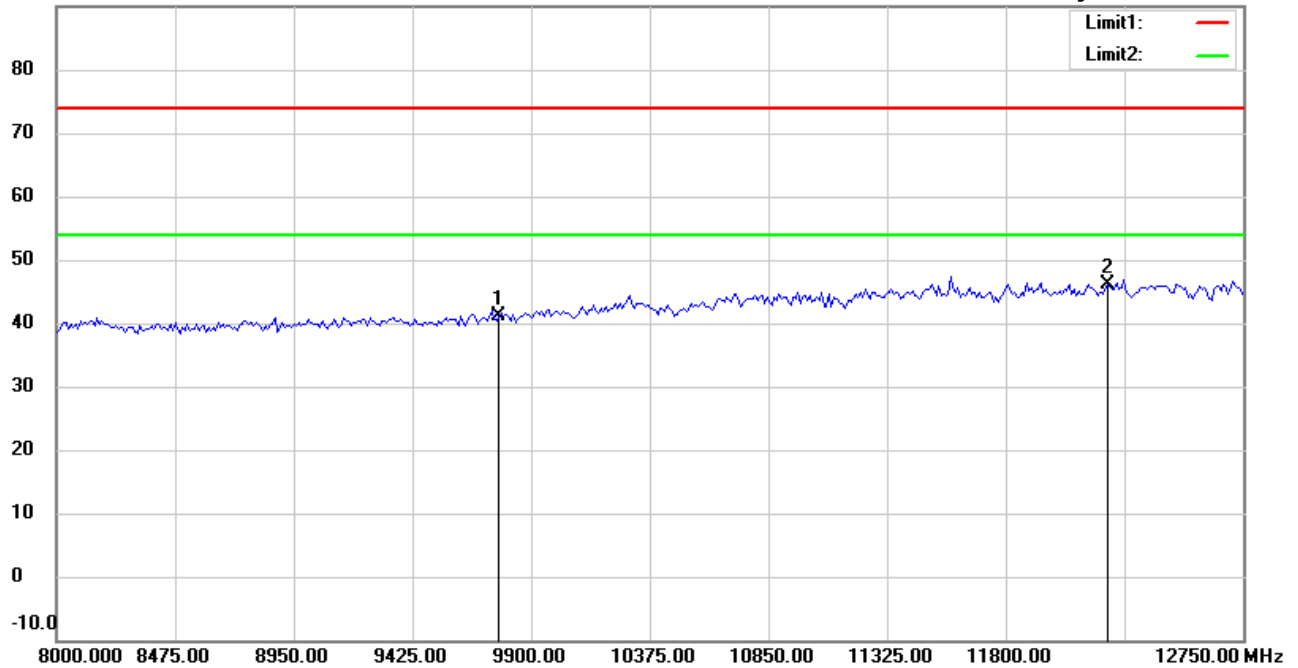
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:11:06 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9764.000 | 34.39 | peak | 6.77 | 41.16 | 74.00 | 150 | 322 | -32.84 | |
| * | 12205.000 | 33.23 | peak | 12.91 | 46.14 | 74.00 | 150 | 165 | -27.86 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

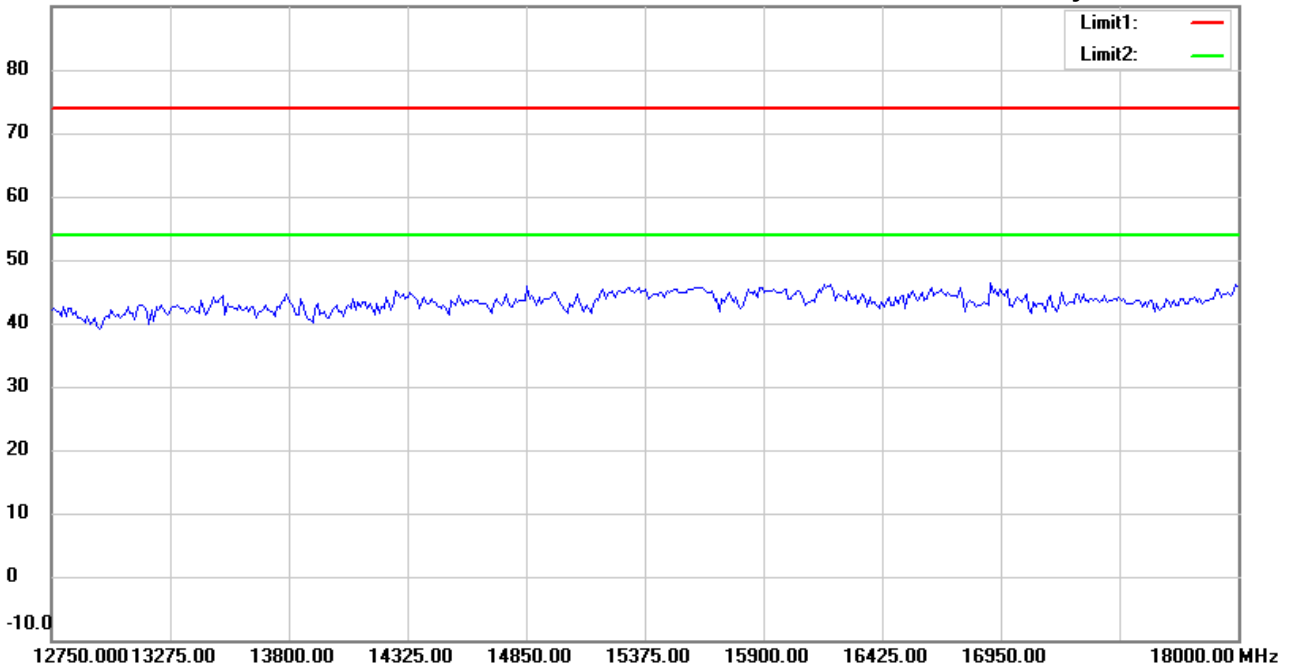
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:07:54 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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 Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

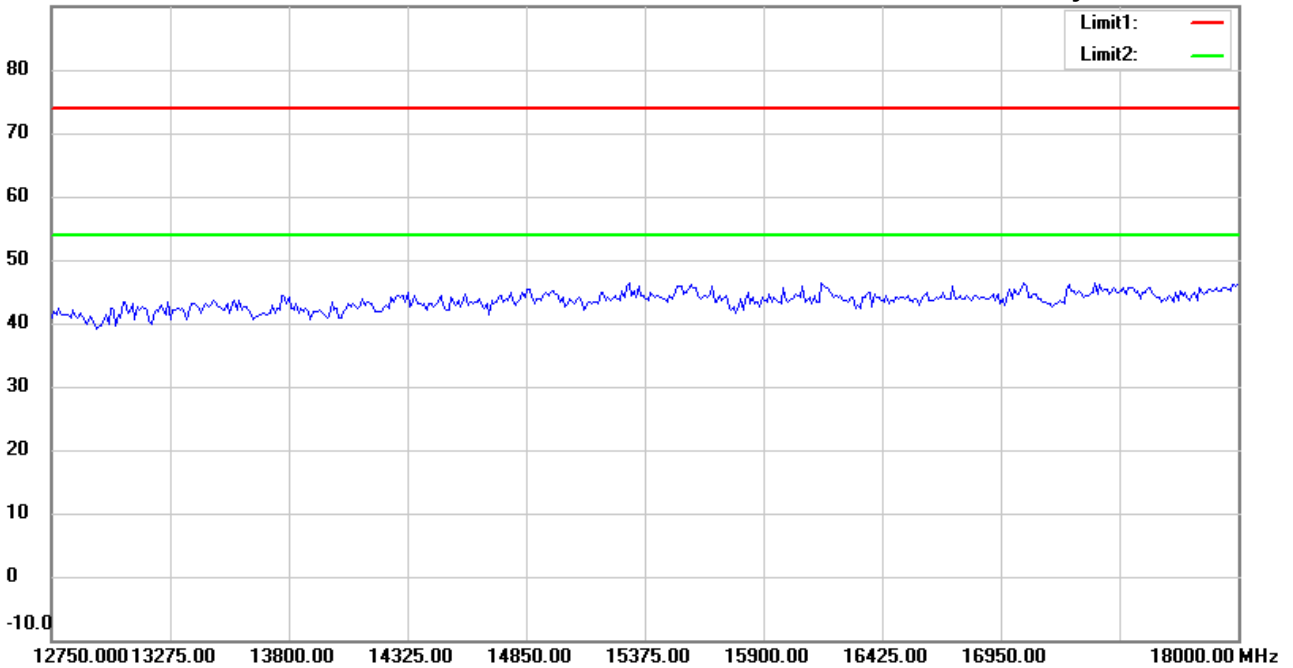
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:11:20 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

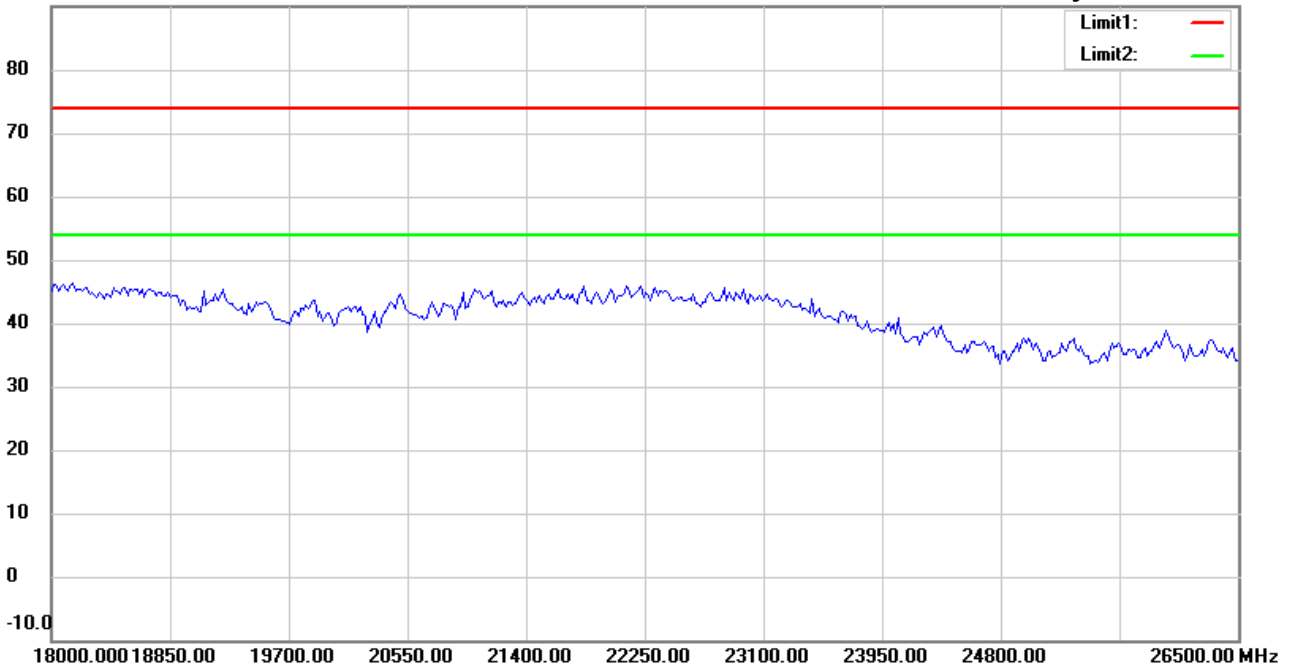
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:08:04 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

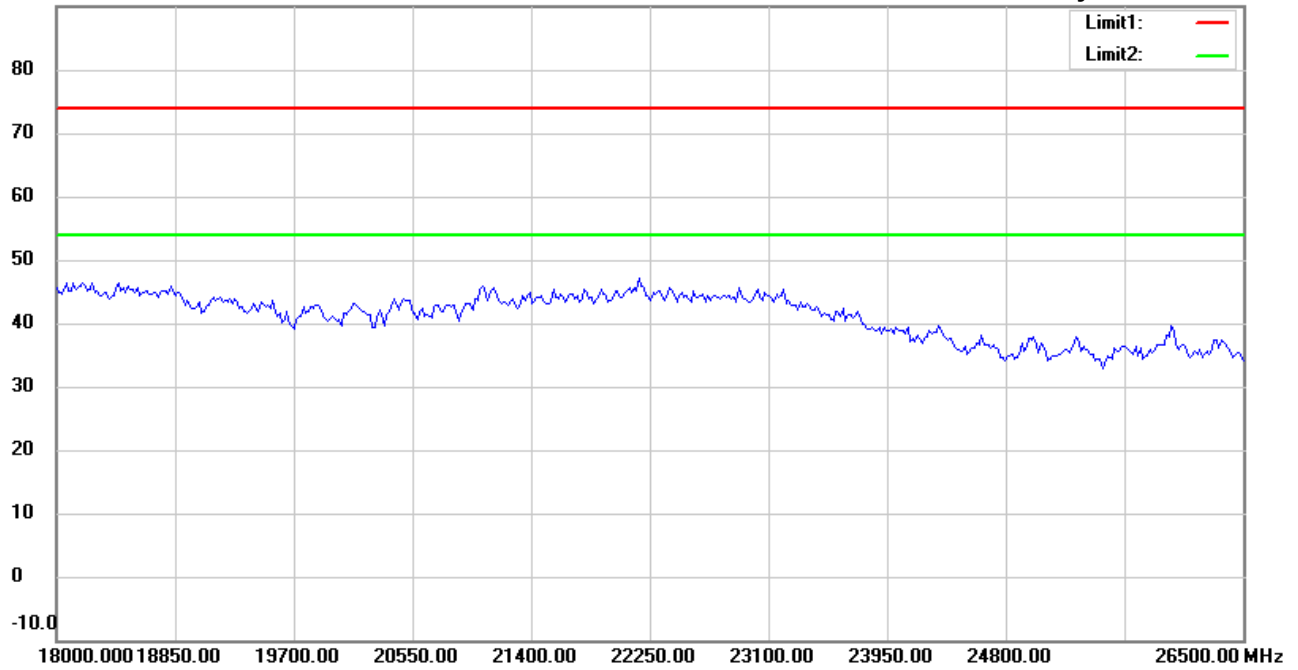
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:11:31 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

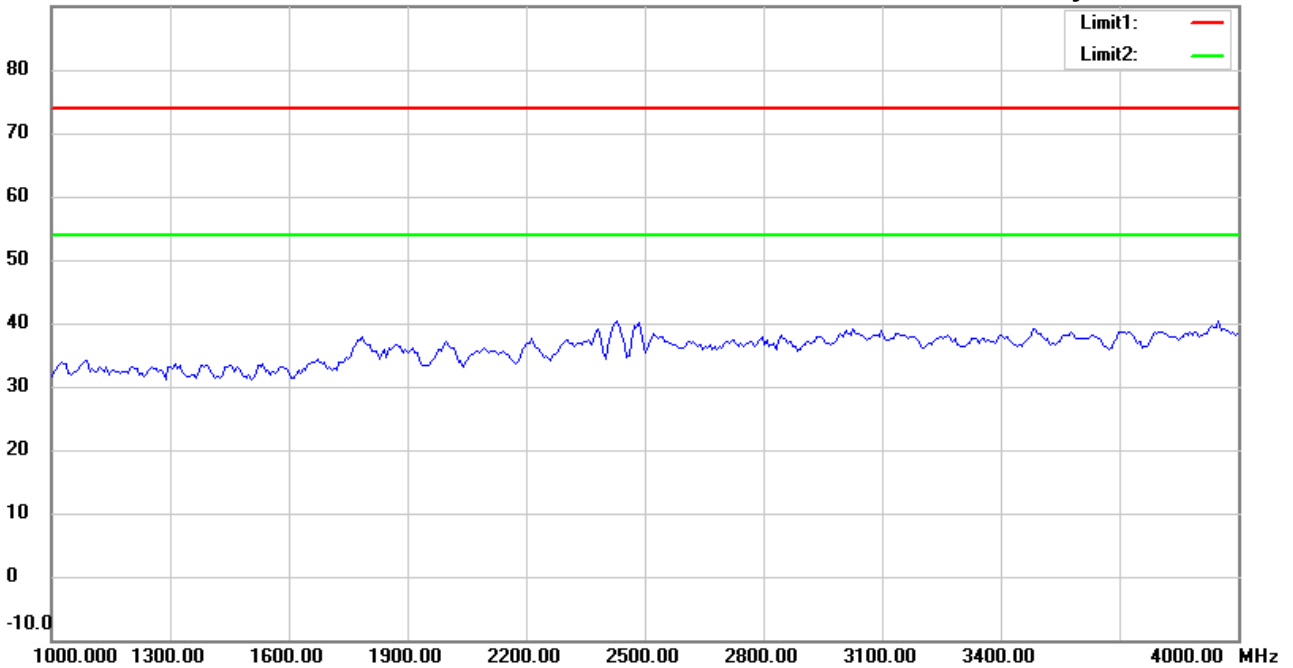
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:27:30 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

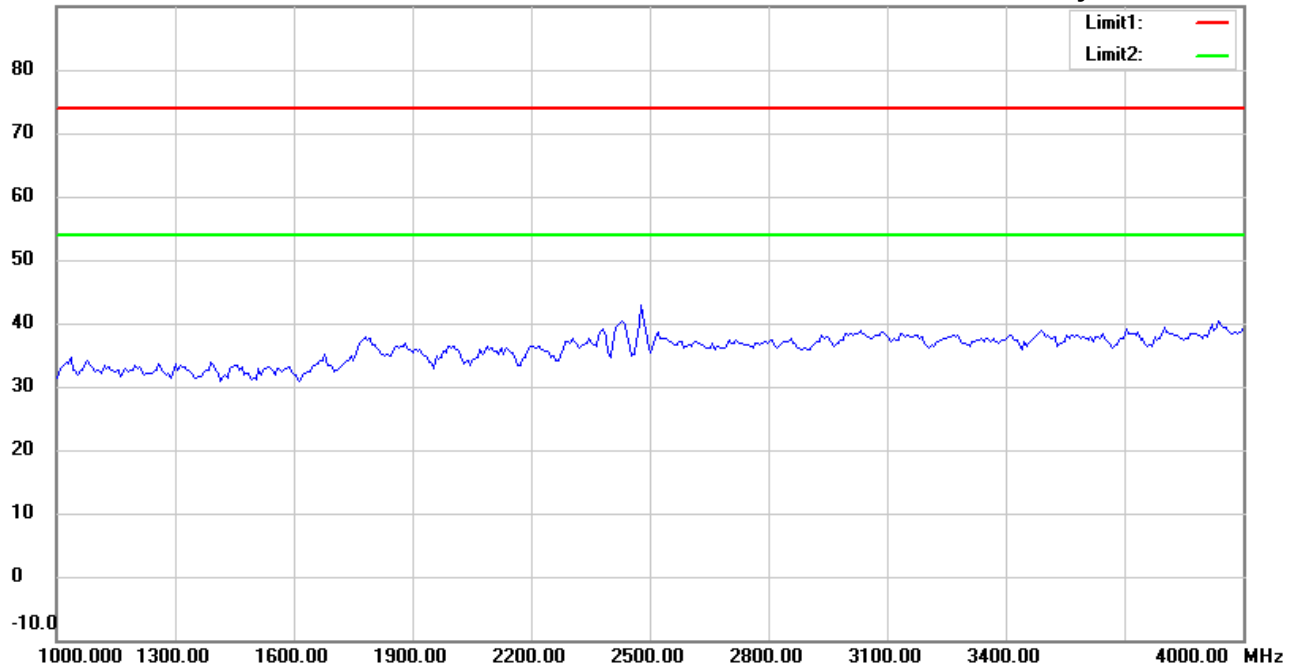
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:31:03 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22004-19834

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

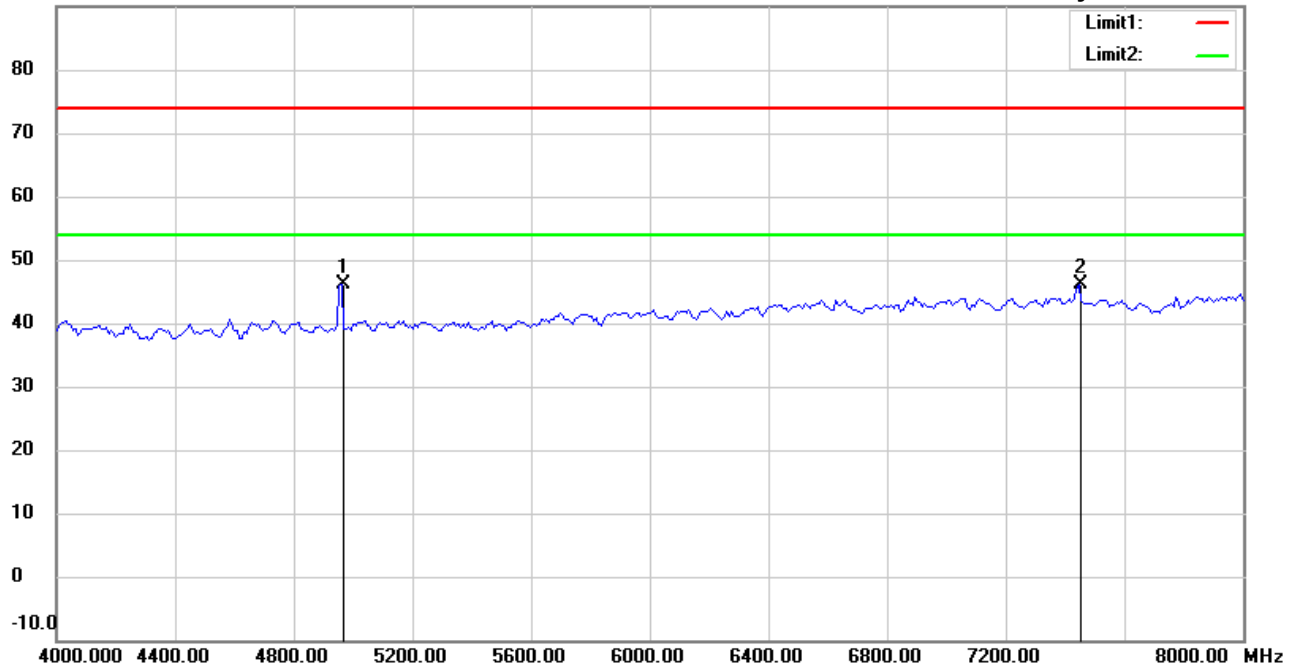
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:28:31 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4961.924 | 47.43 | peak | -1.41 | 46.02 | 74.00 | 150 | 93 | -27.98 | |
| * | 7446.894 | 42.44 | peak | 3.67 | 46.11 | 74.00 | 150 | 275 | -27.89 | |

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

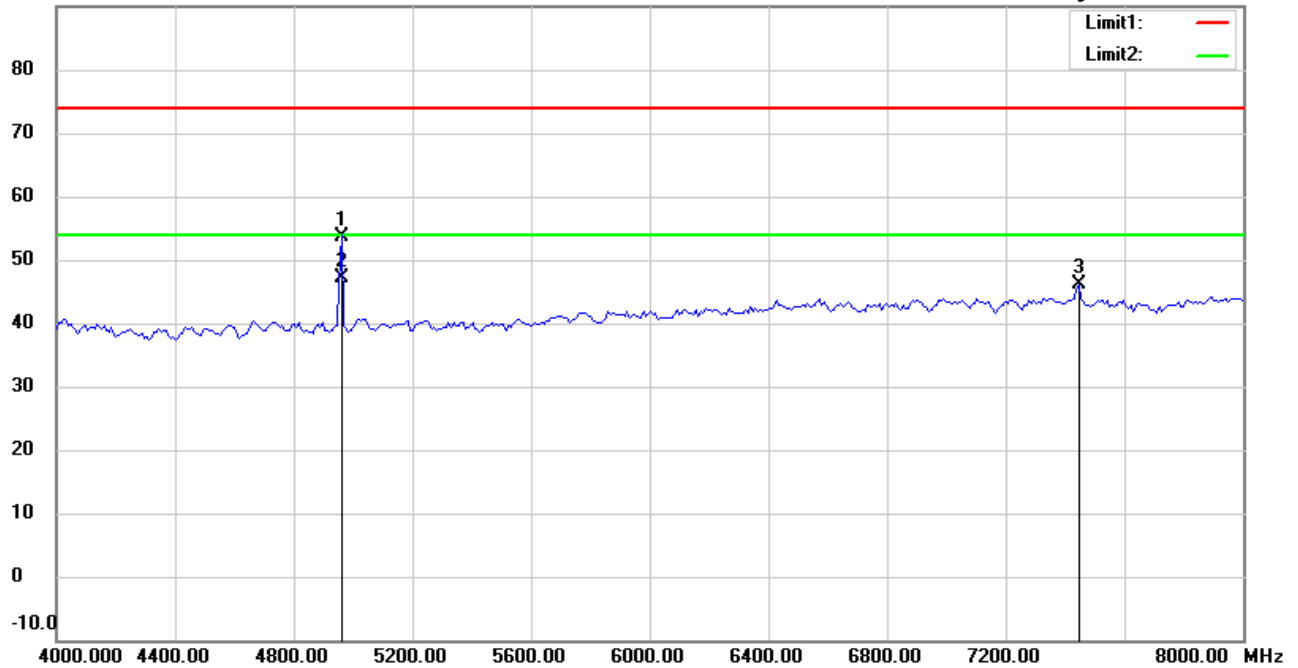
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:32:04 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22004-19834

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4960.003 | 55.01 | peak | -1.41 | 53.60 | 74.00 | 160 | 284 | -20.40 | |
| * | 4960.003 | 48.55 | AVG | -1.41 | 47.14 | 54.00 | 160 | 284 | -6.86 | |
| | 7440.000 | 42.47 | peak | 3.68 | 46.15 | 74.00 | 150 | 158 | -27.85 | |



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

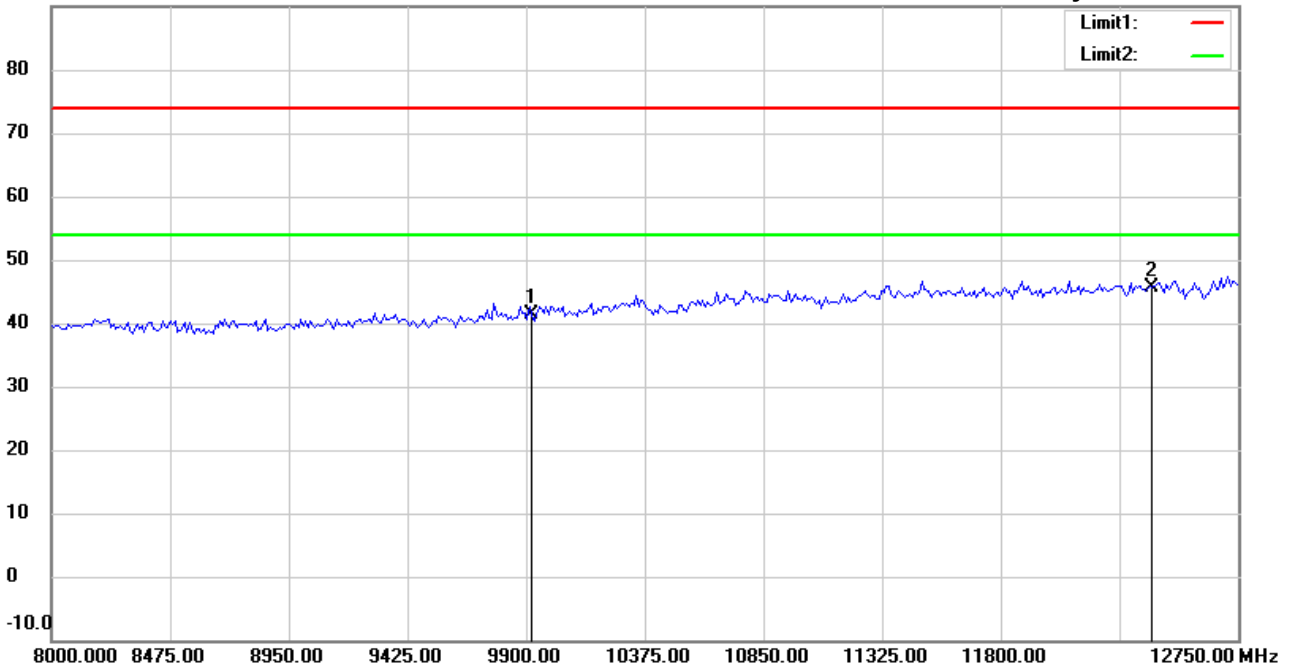
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:29:38 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9920.000 | 34.16 | peak | 7.14 | 41.30 | 74.00 | 150 | 225 | -32.70 | |
| * | 12400.000 | 32.89 | peak | 12.75 | 45.64 | 74.00 | 150 | 143 | -28.36 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

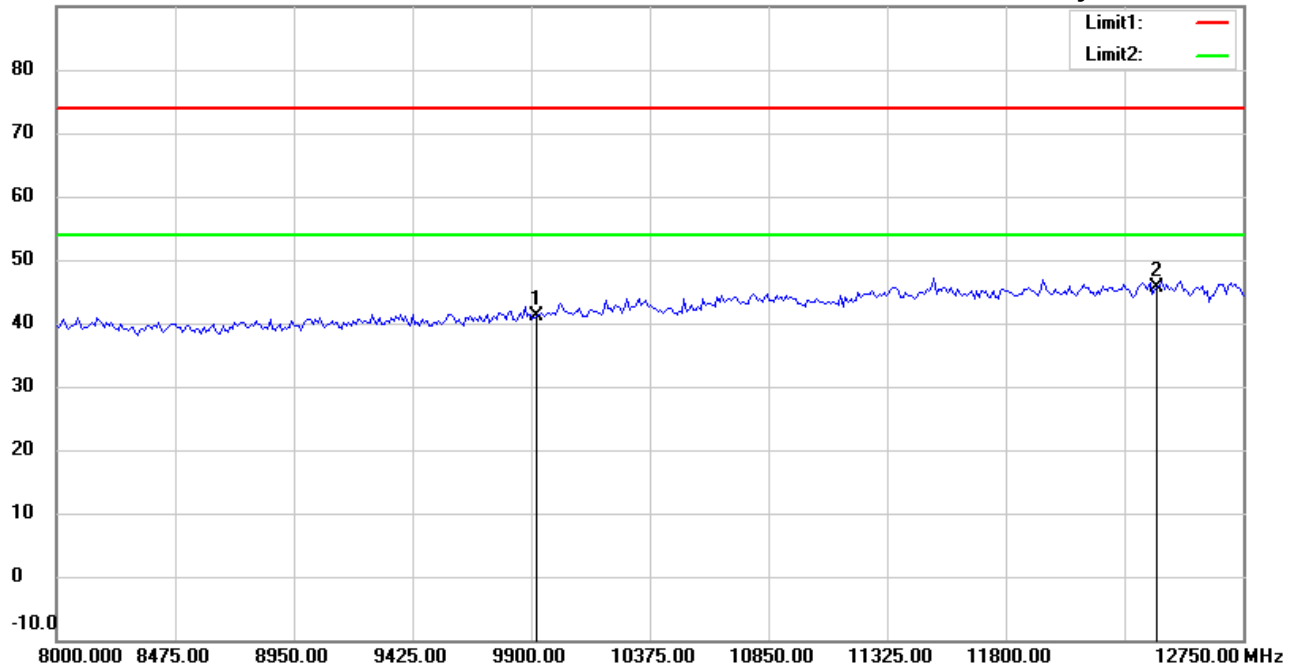
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:33:05 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9920.000 | 33.97 | peak | 7.14 | 41.11 | 74.00 | 150 | 40 | -32.89 | |
| * | 12400.000 | 32.86 | peak | 12.75 | 45.61 | 74.00 | 150 | 126 | -28.39 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

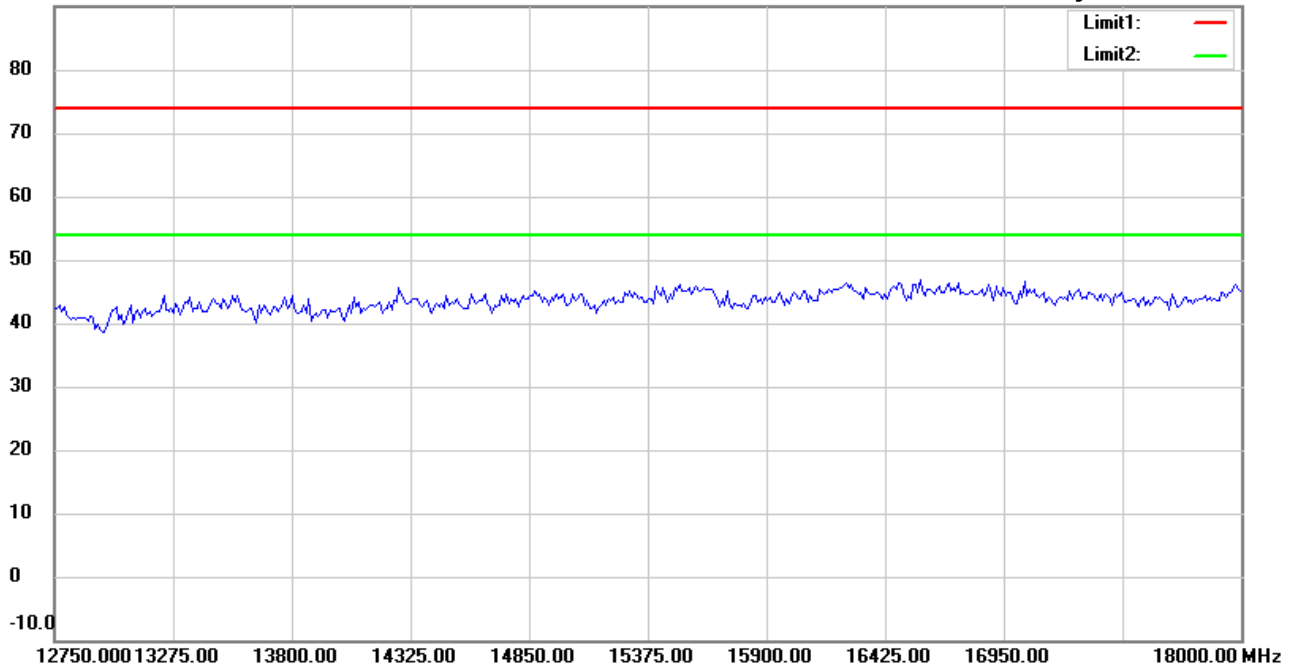
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:29:52 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

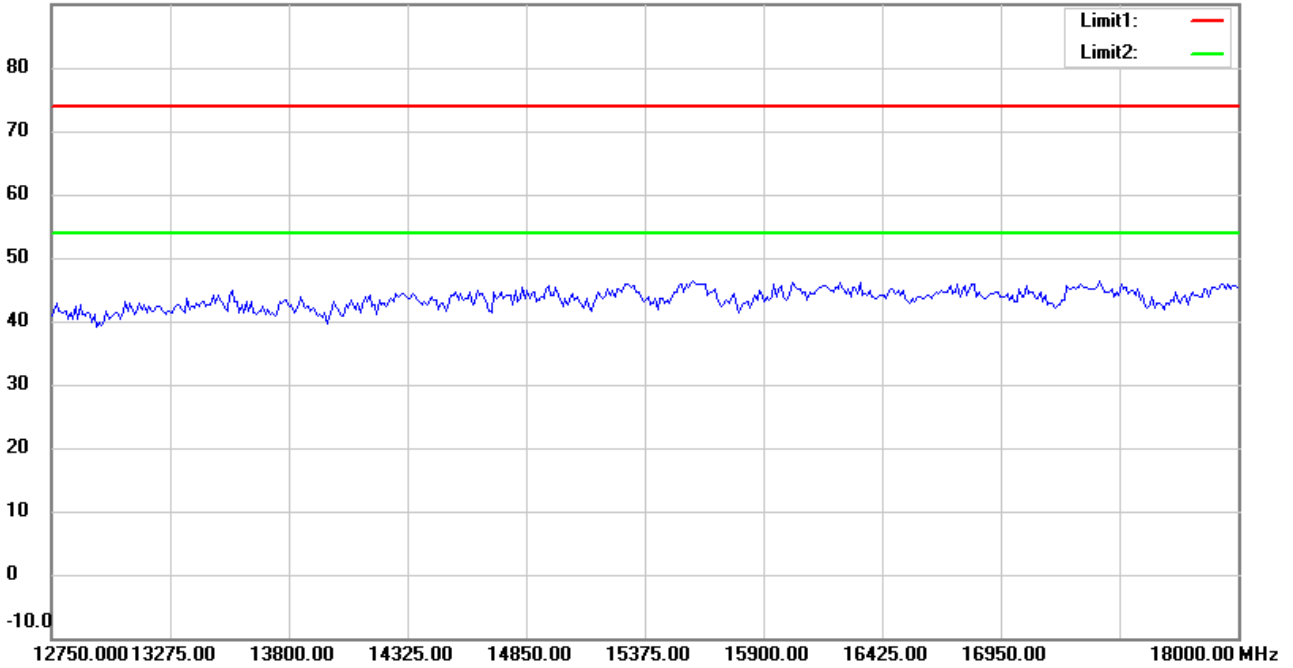
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:33:19 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

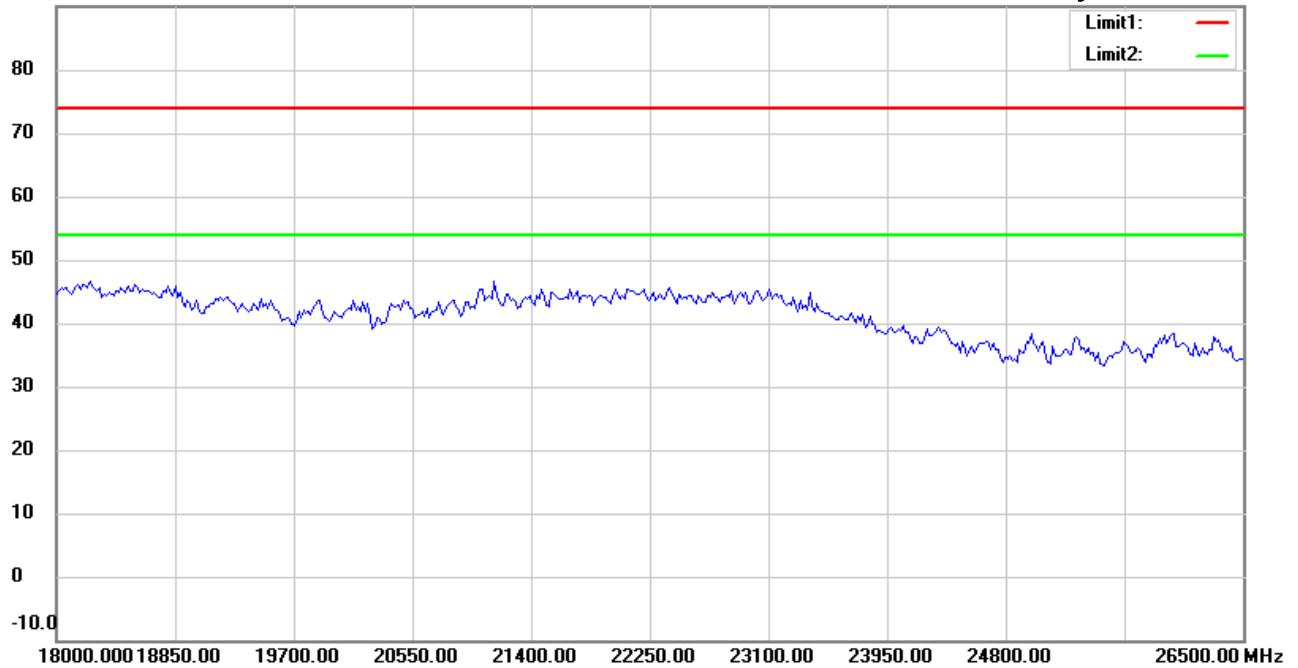
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:30:03 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

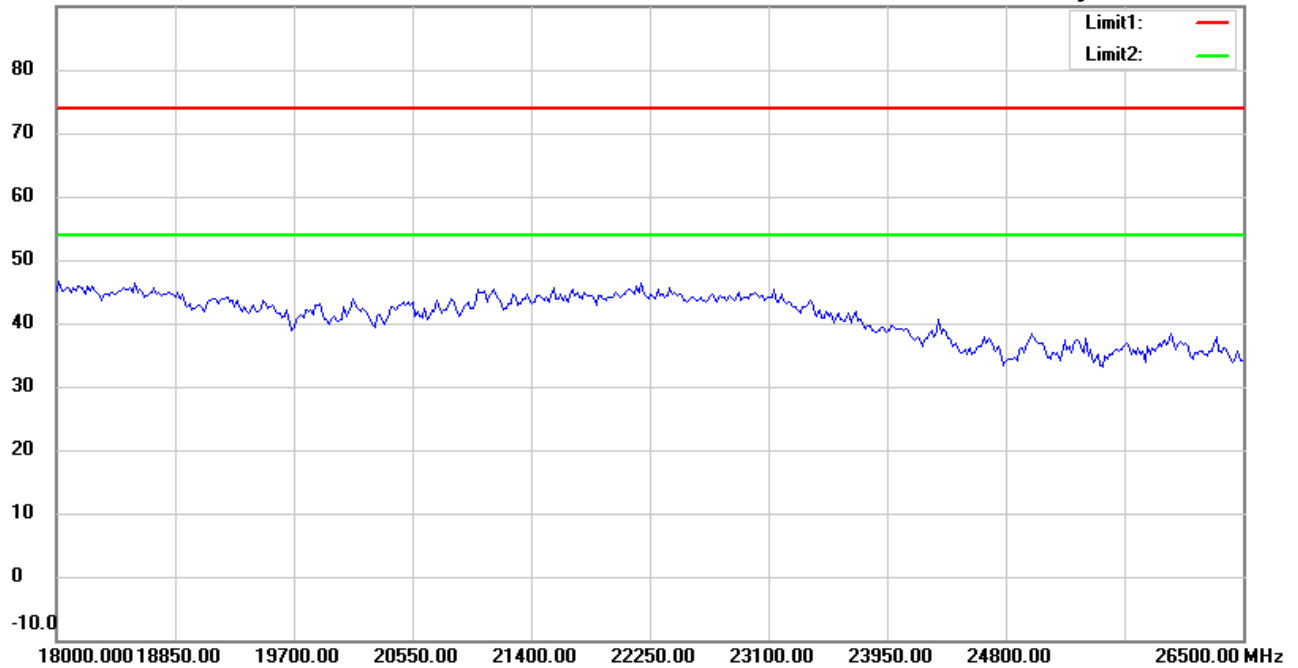
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:33:30 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

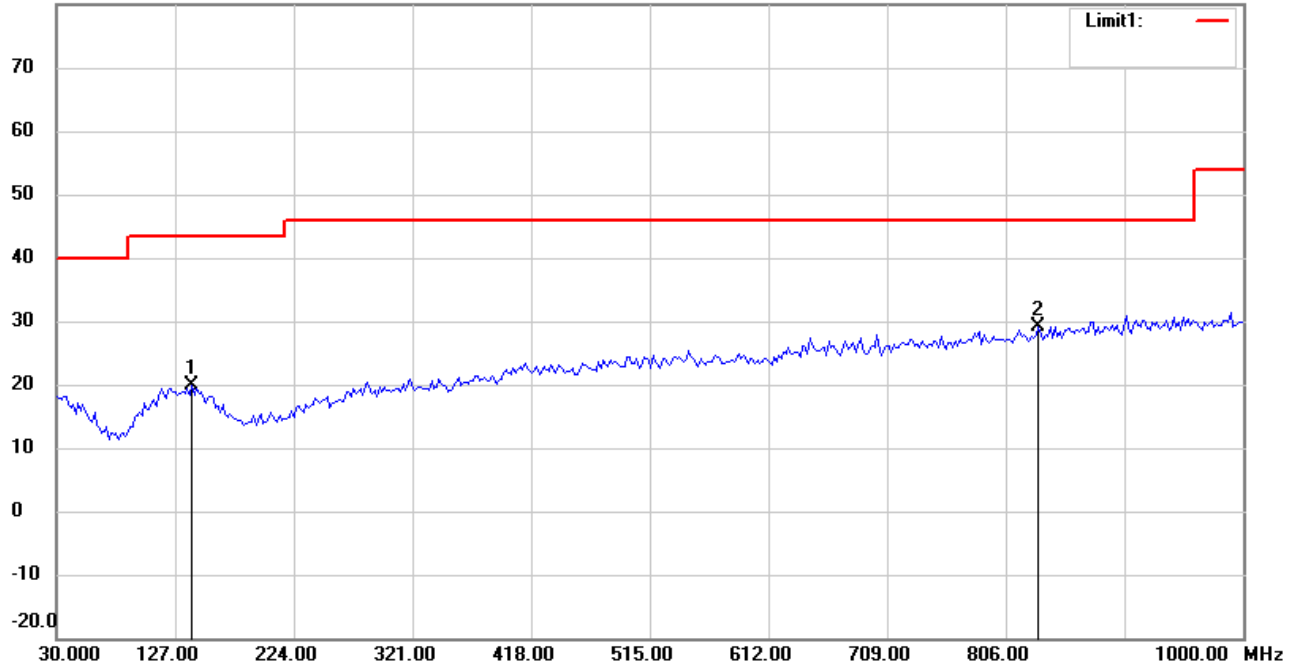
Operator: Sky

File :1_BLE_TX
 80.0 dBuV/m

Data :#1

Date: 7/21/2020
 Time: 7:04:25 PM

Temperature:27.0 °C
 Humidity:49.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22004-19834

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 140.8015 | 26.71 | peak | -6.75 | 19.96 | 43.50 | 100 | 310 | -23.54 | |
| * | 832.8257 | 26.80 | peak | 2.34 | 29.14 | 46.00 | 100 | 55 | -16.86 | |



Radiated Emission Measurement

Operator: Sky

File :1_BLE_TX

Data :#2

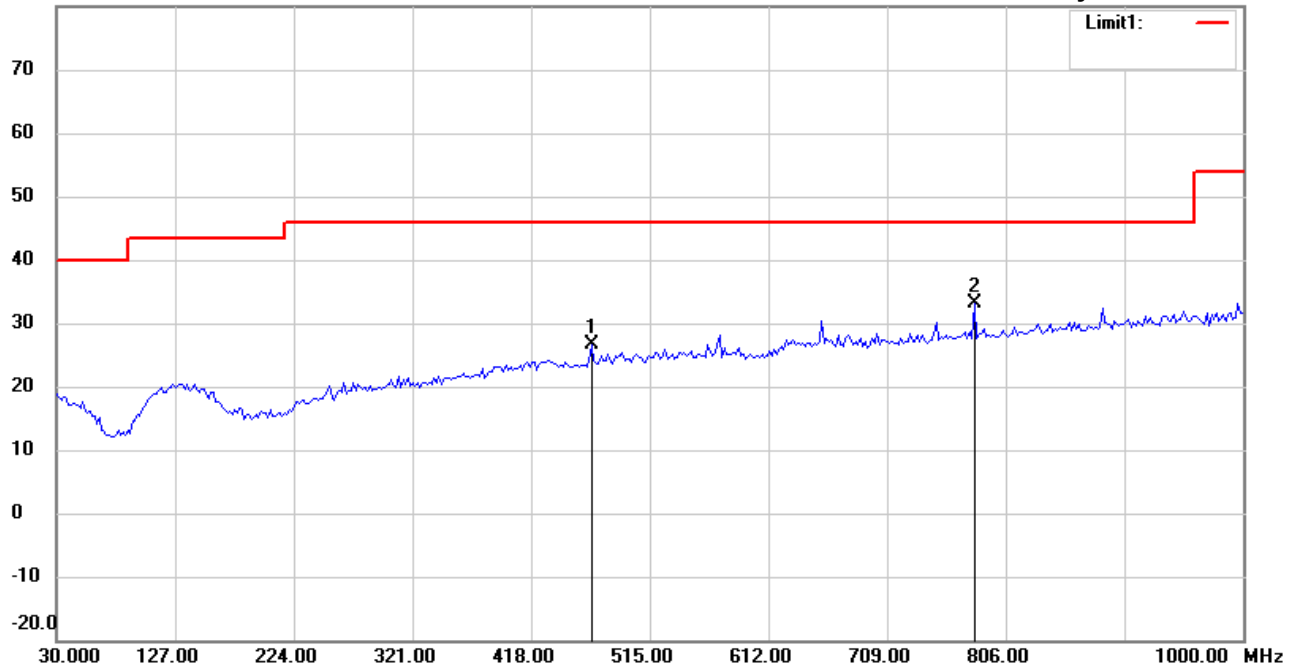
Date: 7/21/2020

Temperature:27.0 °C

80.0 dBuV/m

Time: 7:05:49 PM

Humidity:49.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22004-19834

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 467.3747 | 29.73 | peak | -3.10 | 26.63 | 46.00 | 100 | 280 | -19.37 | |
| * | 780.3407 | 31.92 | peak | 1.24 | 33.16 | 46.00 | 100 | 360 | -12.84 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

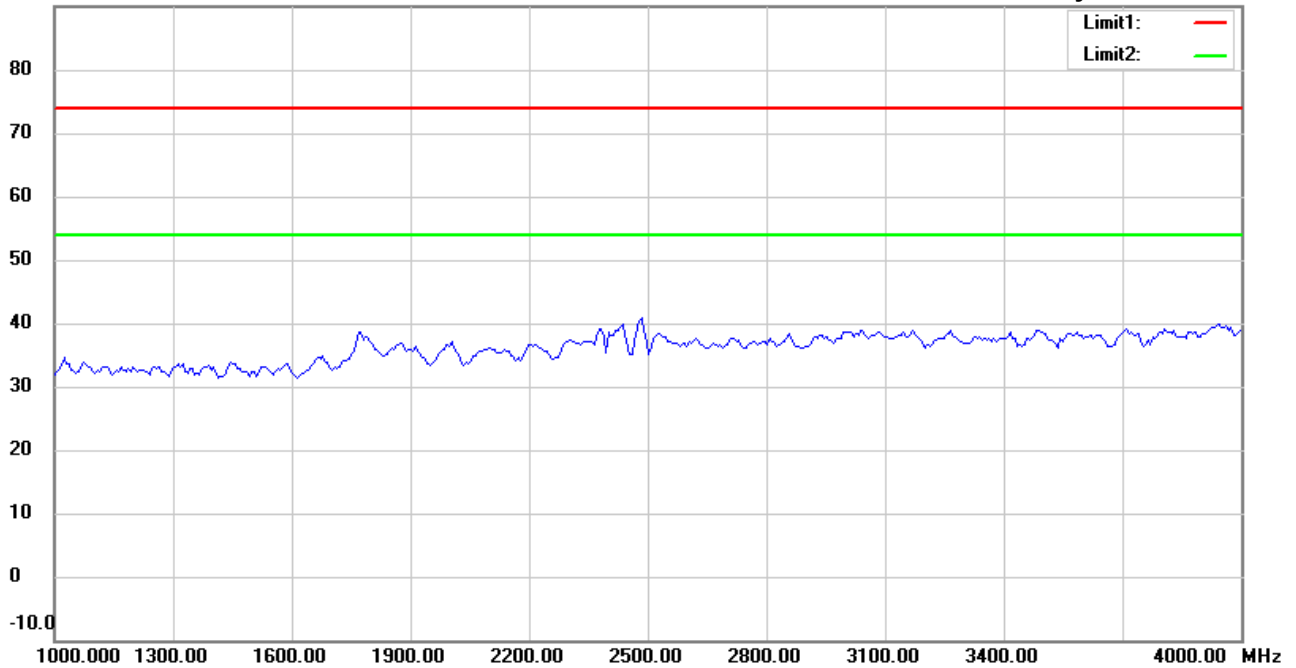
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:40:54 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

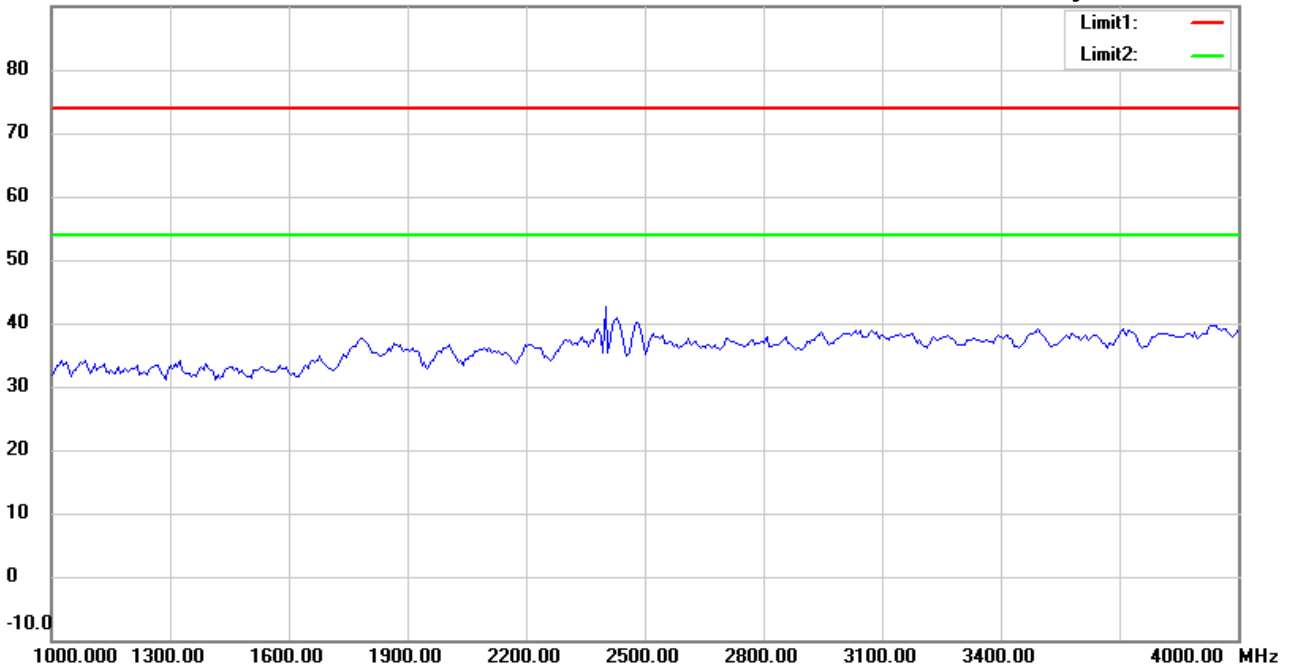
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:44:27 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

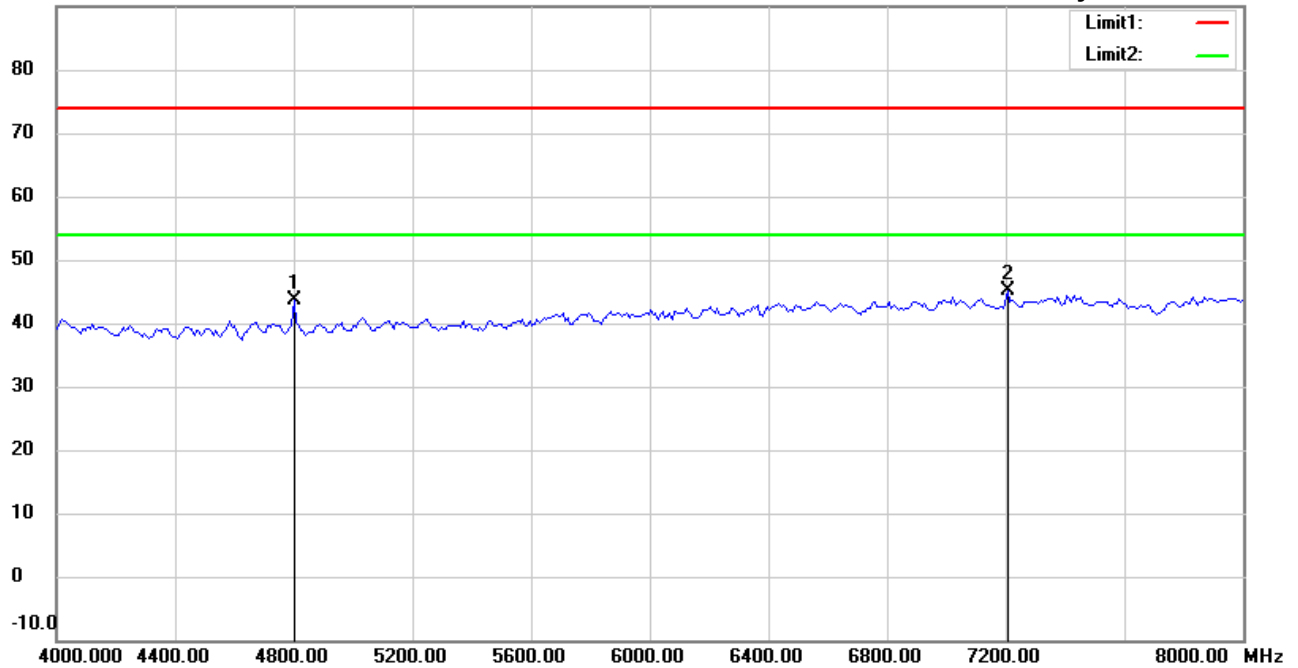
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:41:54 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4801.603 | 45.38 | peak | -1.86 | 43.52 | 74.00 | 150 | 126 | -30.48 | |
| * | 7206.000 | 41.95 | peak | 3.24 | 45.19 | 74.00 | 150 | 230 | -28.81 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

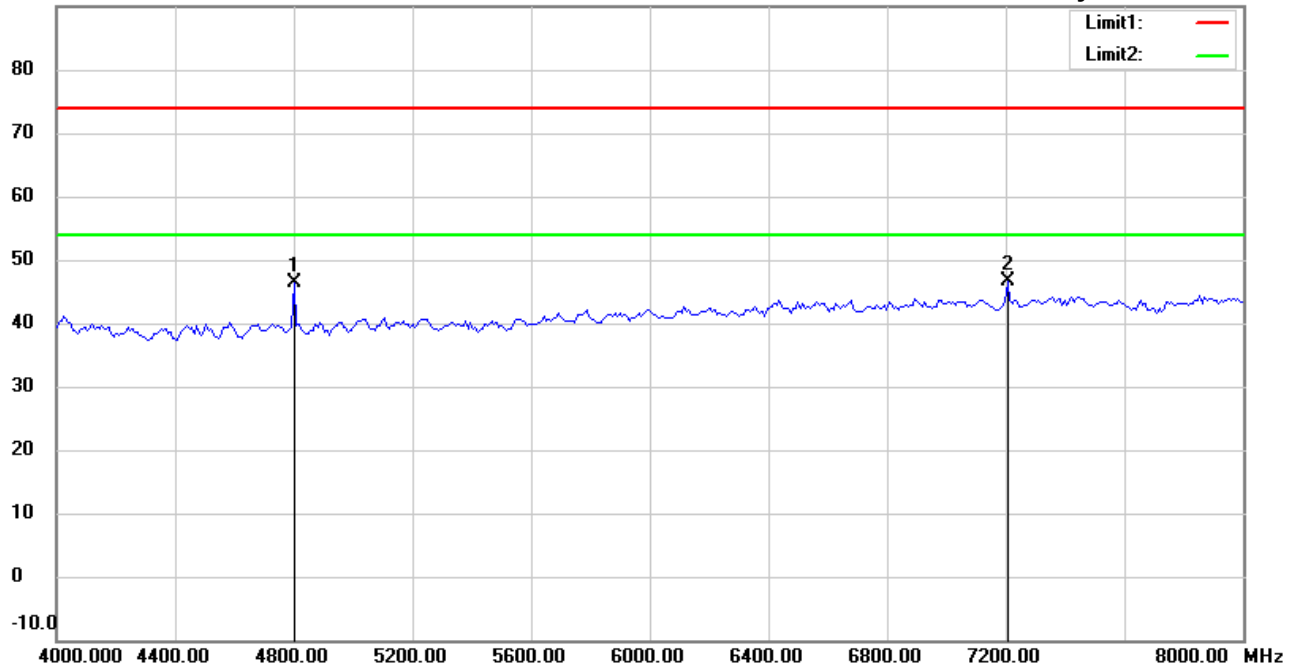
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:45:28 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4801.603 | 48.28 | peak | -1.86 | 46.42 | 74.00 | 150 | 249 | -27.58 | |
| * | 7206.000 | 43.46 | peak | 3.24 | 46.70 | 74.00 | 150 | 133 | -27.30 | |

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

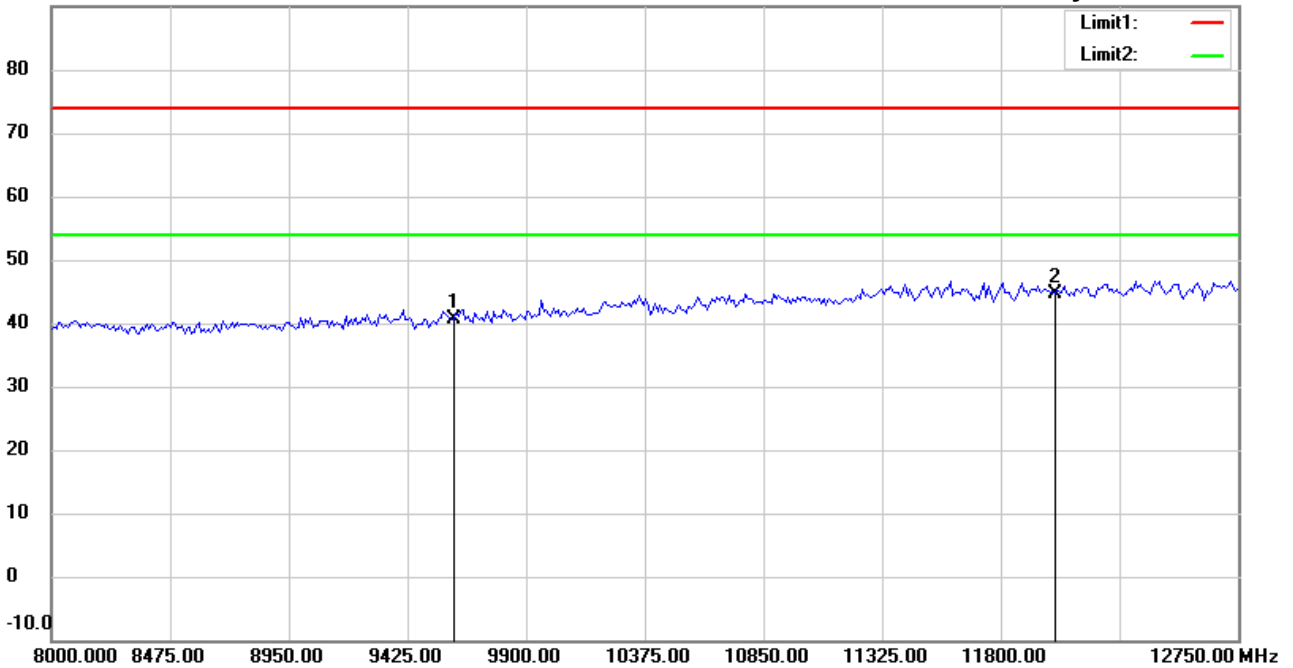
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:43:02 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9608.000 | 34.05 | peak | 6.63 | 40.68 | 74.00 | 150 | 221 | -33.32 | |
| * | 12010.000 | 33.06 | peak | 11.61 | 44.67 | 74.00 | 150 | 274 | -29.33 | |



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

Operator: Vincent

File :3

Data :#8

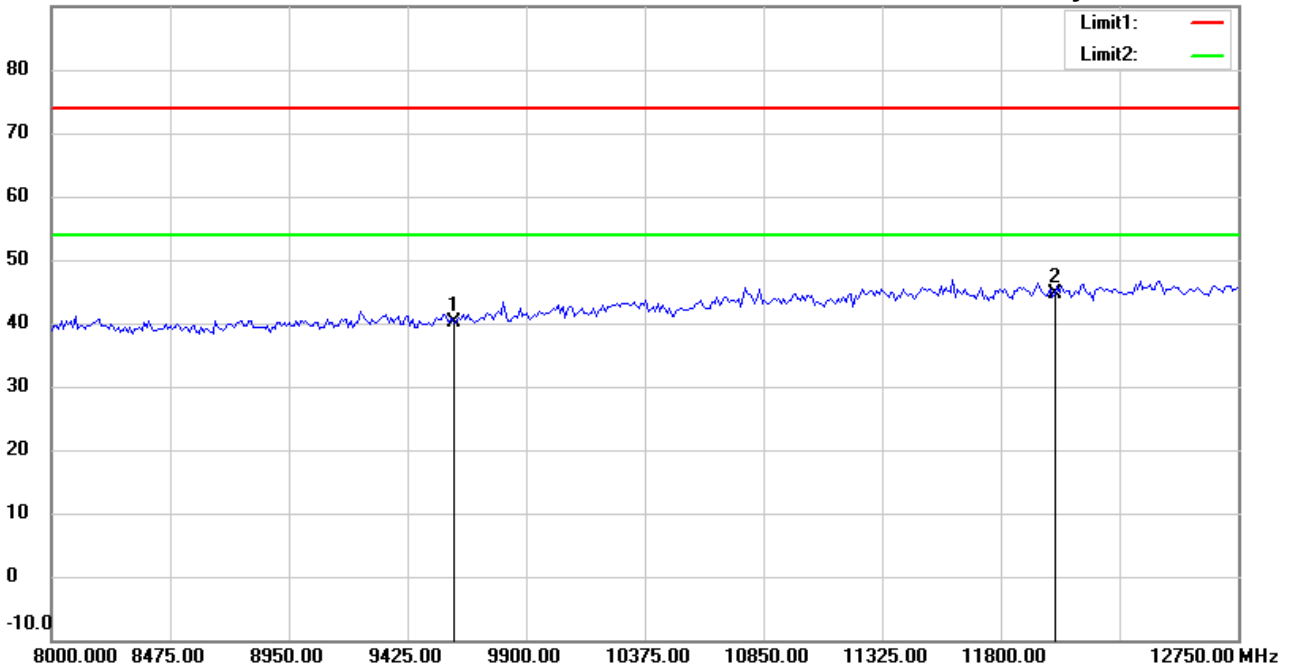
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:46:30 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9608.000 | 33.58 | peak | 6.63 | 40.21 | 74.00 | 150 | 230 | -33.79 | |
| * | 12010.000 | 33.03 | peak | 11.61 | 44.64 | 74.00 | 150 | 165 | -29.36 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

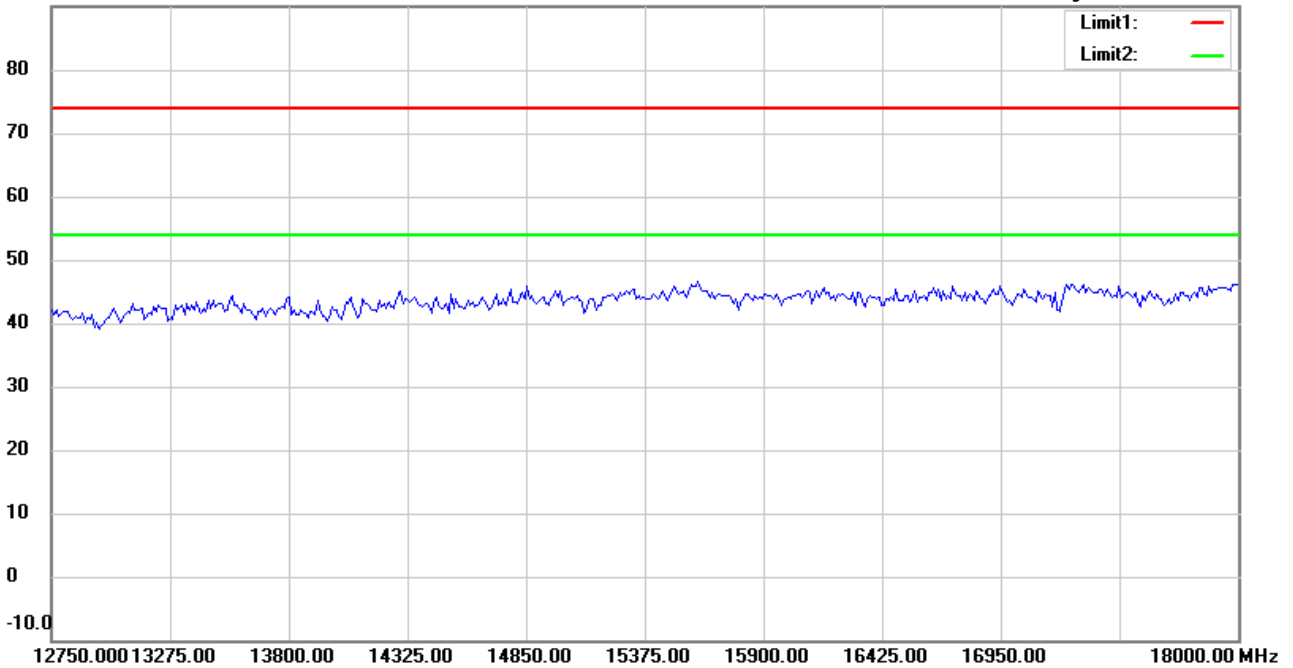
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:43:16 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

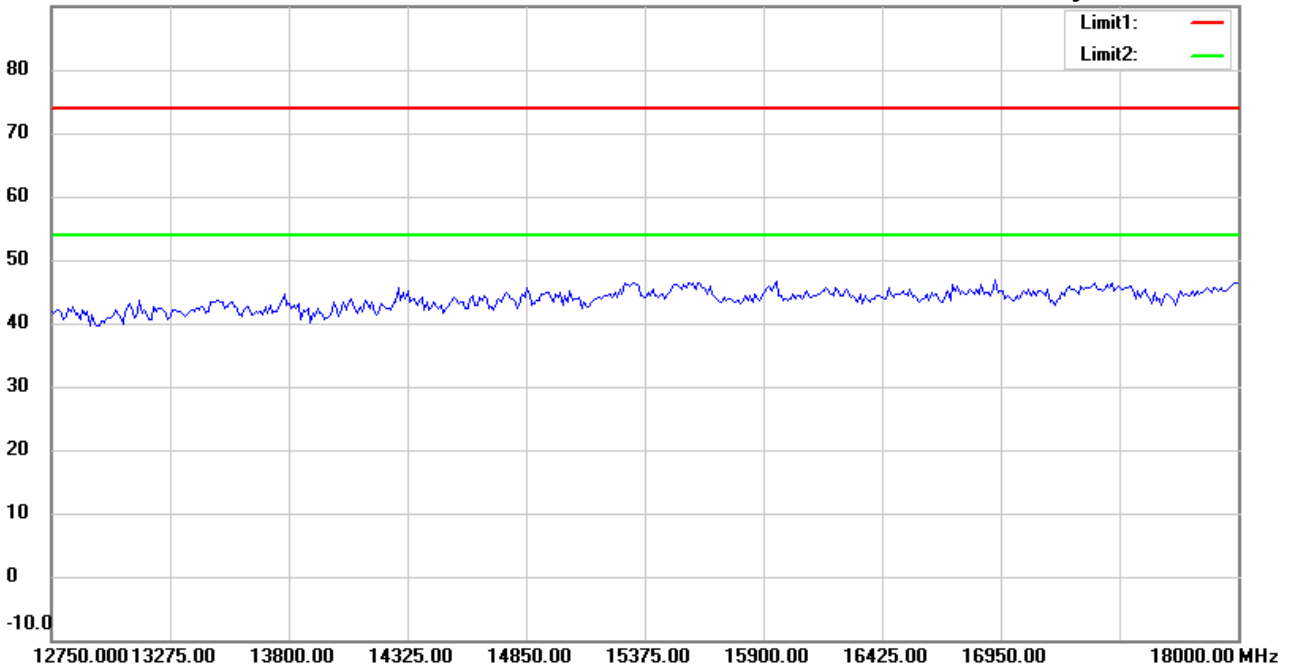
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:46:44 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

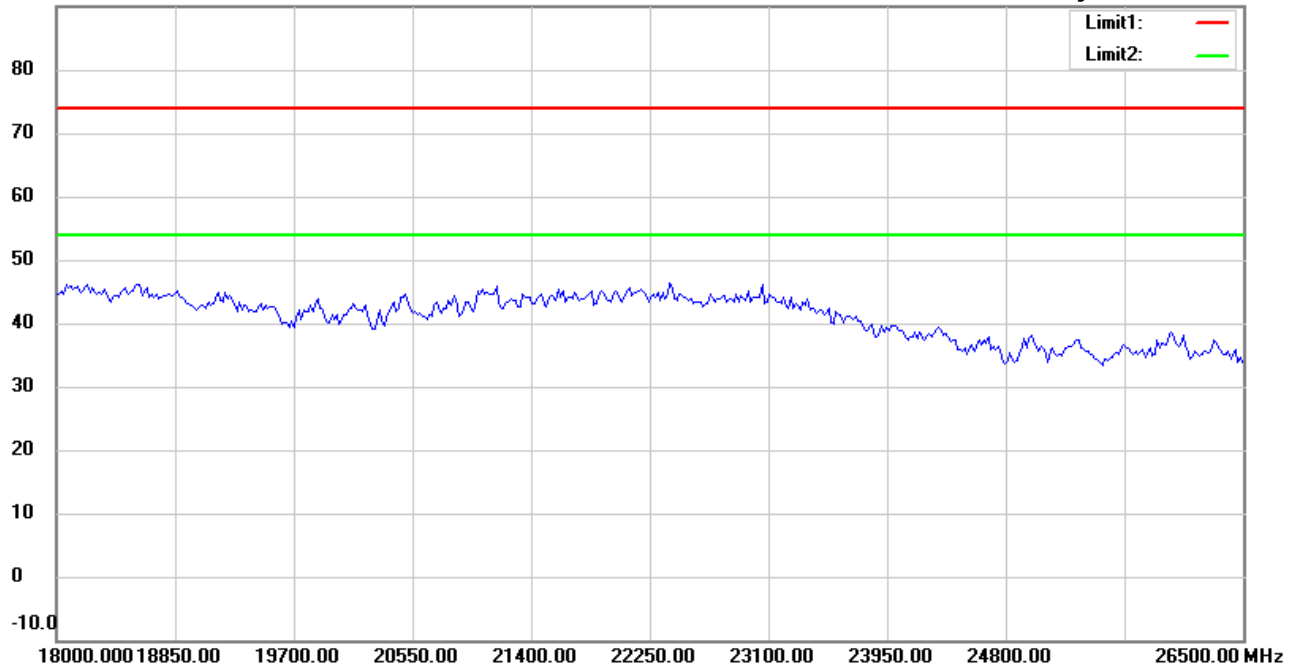
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:43:26 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

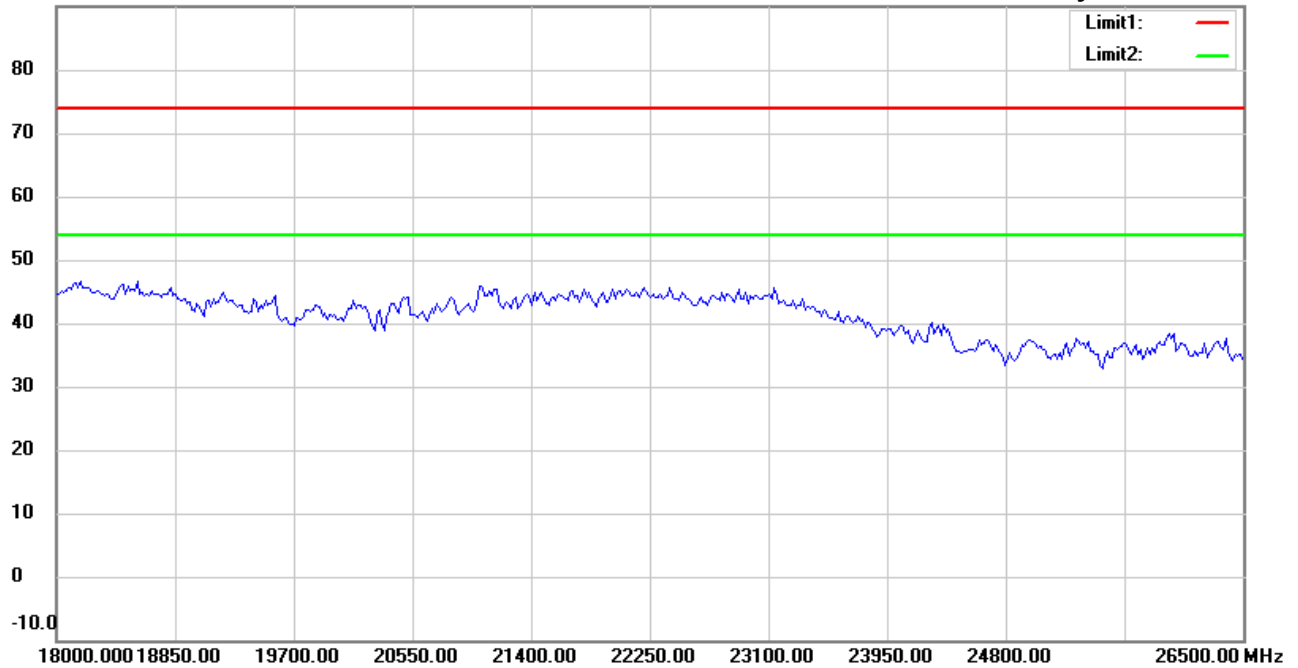
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:46:55 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

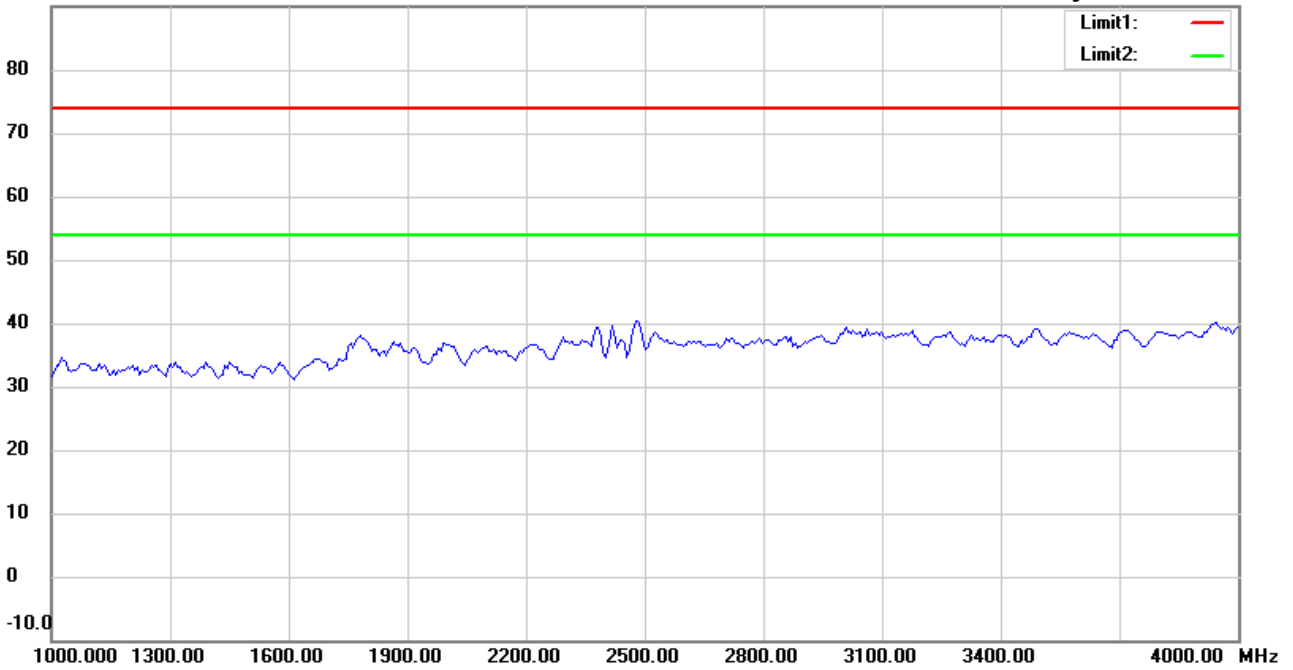
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:04:01 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

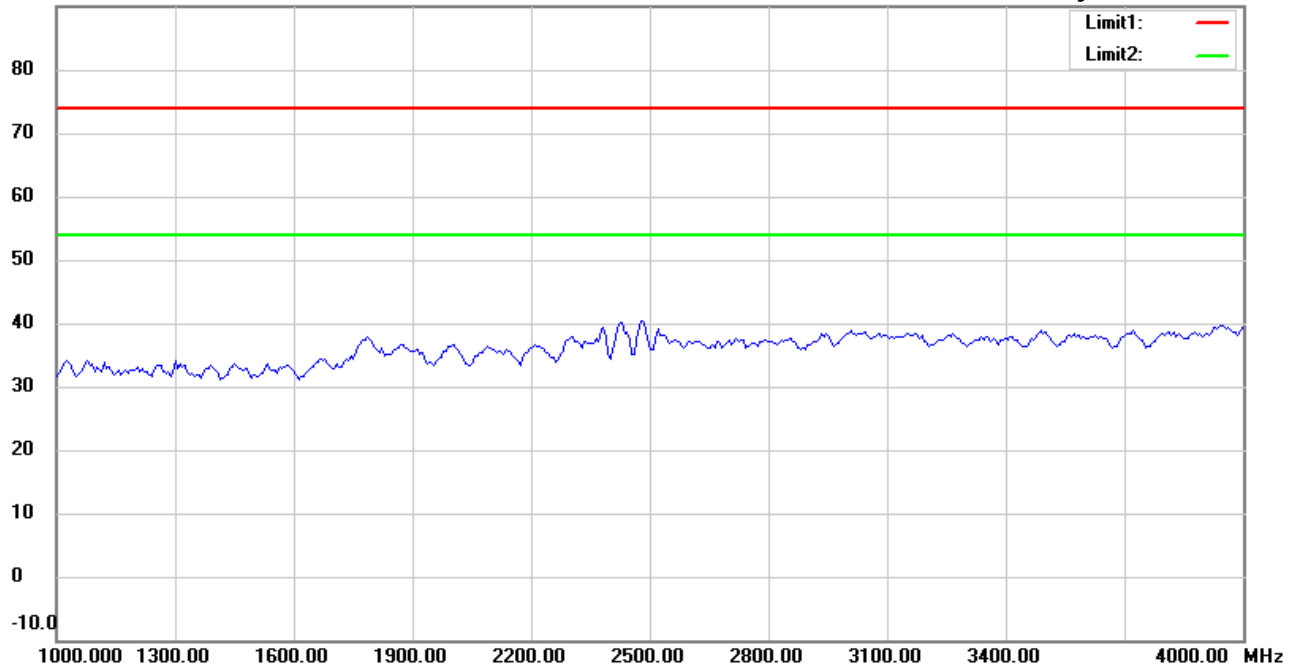
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:07:35 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

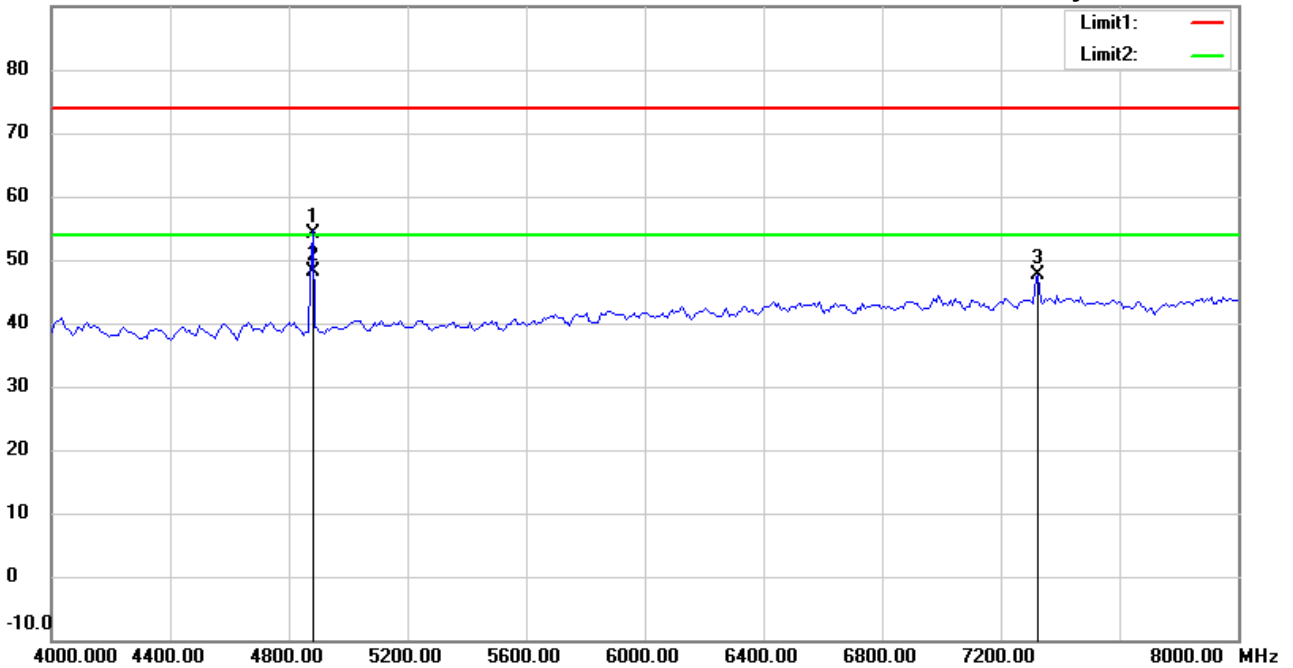
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:05:02 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4879.977 | 55.73 | peak | -1.66 | 54.07 | 74.00 | 178 | 132 | -19.93 | |
| * | 4879.977 | 49.78 | AVG | -1.66 | 48.12 | 54.00 | 178 | 132 | -5.88 | |
| | 7320.000 | 44.23 | peak | 3.45 | 47.68 | 74.00 | 150 | 185 | -26.32 | |



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

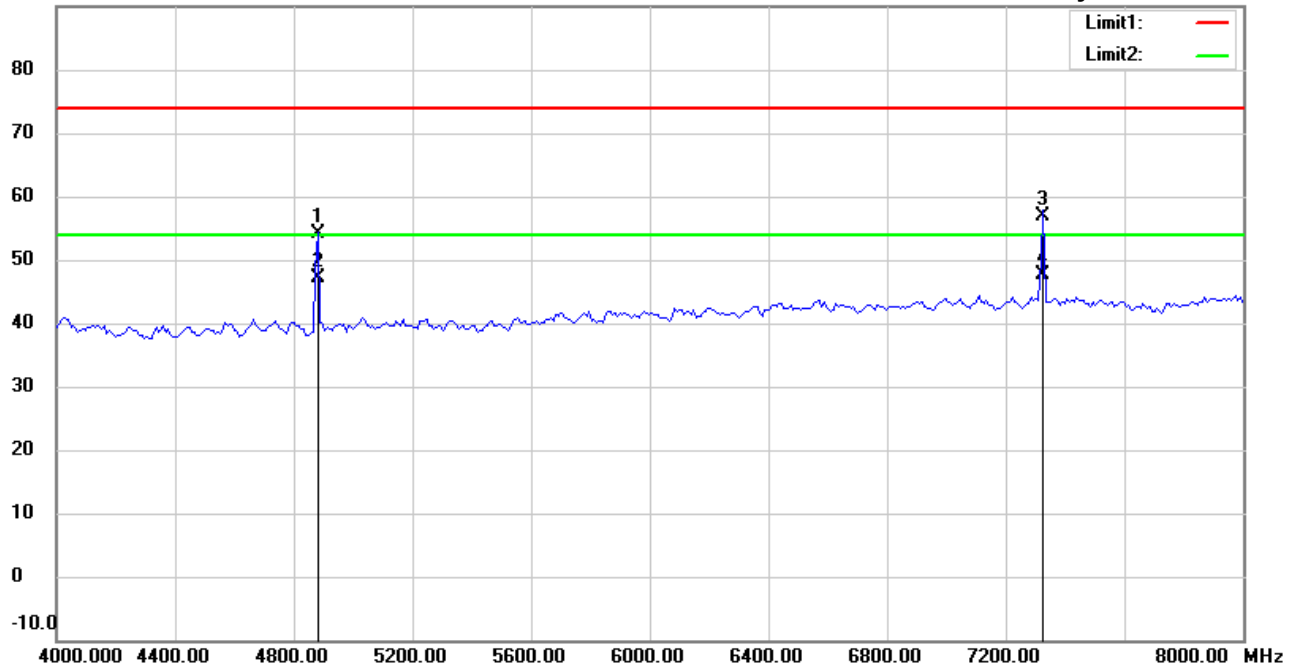
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:08:36 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22004-19834

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4879.997 | 55.83 | peak | -1.66 | 54.17 | 74.00 | 150 | 150 | -19.83 | |
| | 4879.997 | 48.77 | AVG | -1.66 | 47.11 | 54.00 | 150 | 150 | -6.89 | |
| | 7319.962 | 53.42 | peak | 3.45 | 56.87 | 74.00 | 150 | 187 | -17.13 | |
| * | 7319.962 | 44.28 | AVG | 3.45 | 47.73 | 54.00 | 150 | 187 | -6.27 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

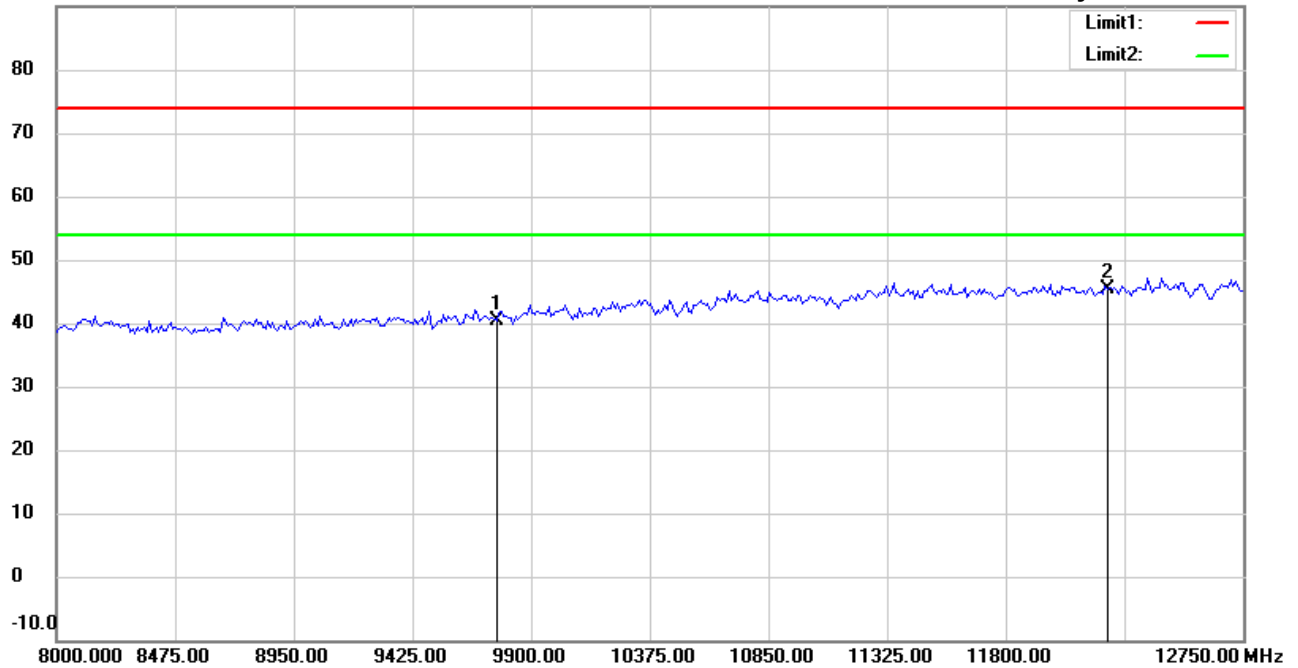
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:06:09 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9760.000 | 33.64 | peak | 6.76 | 40.40 | 74.00 | 150 | 123 | -33.60 | |
| * | 12200.000 | 32.35 | peak | 12.95 | 45.30 | 74.00 | 150 | 248 | -28.70 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

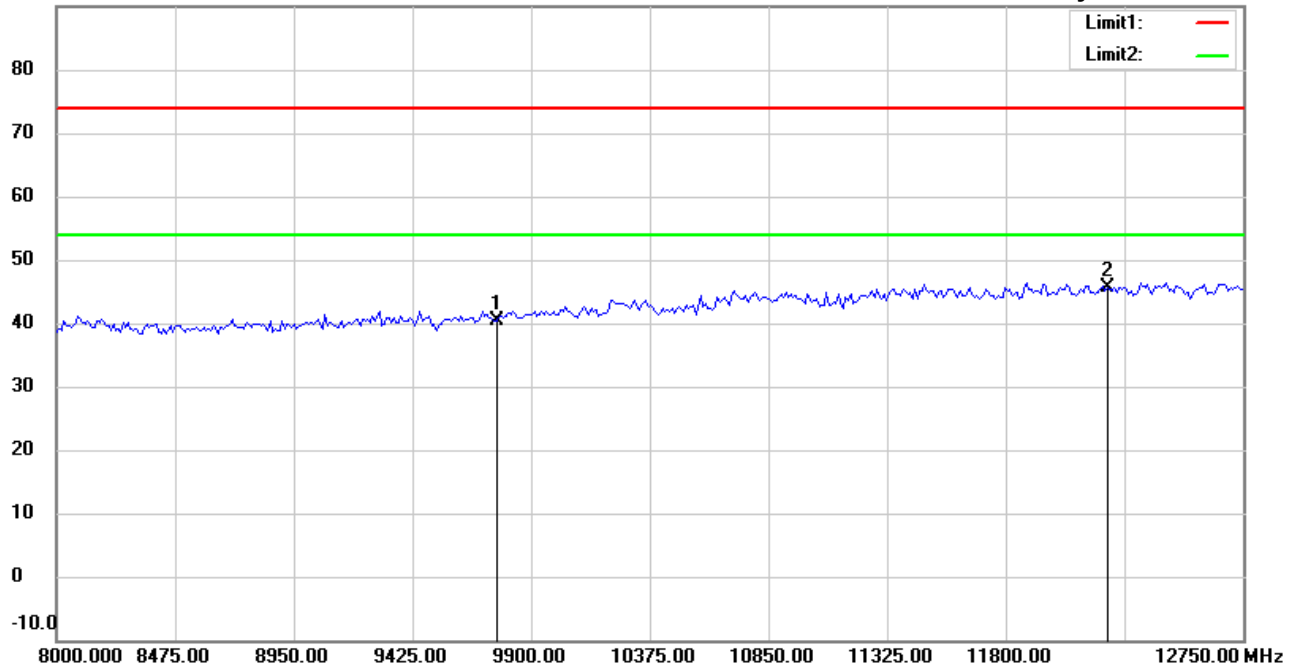
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:09:36 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9760.000 | 33.59 | peak | 6.76 | 40.35 | 74.00 | 150 | 125 | -33.65 | |
| * | 12200.000 | 32.67 | peak | 12.95 | 45.62 | 74.00 | 150 | 248 | -28.38 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

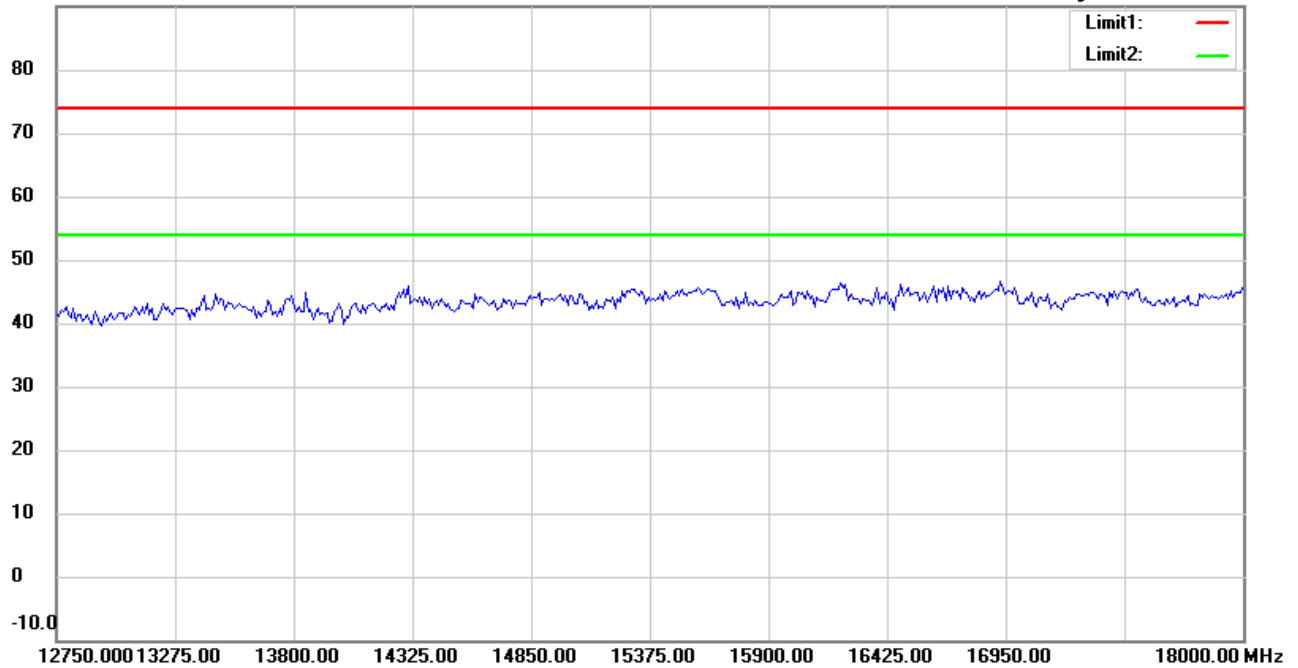
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:06:24 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

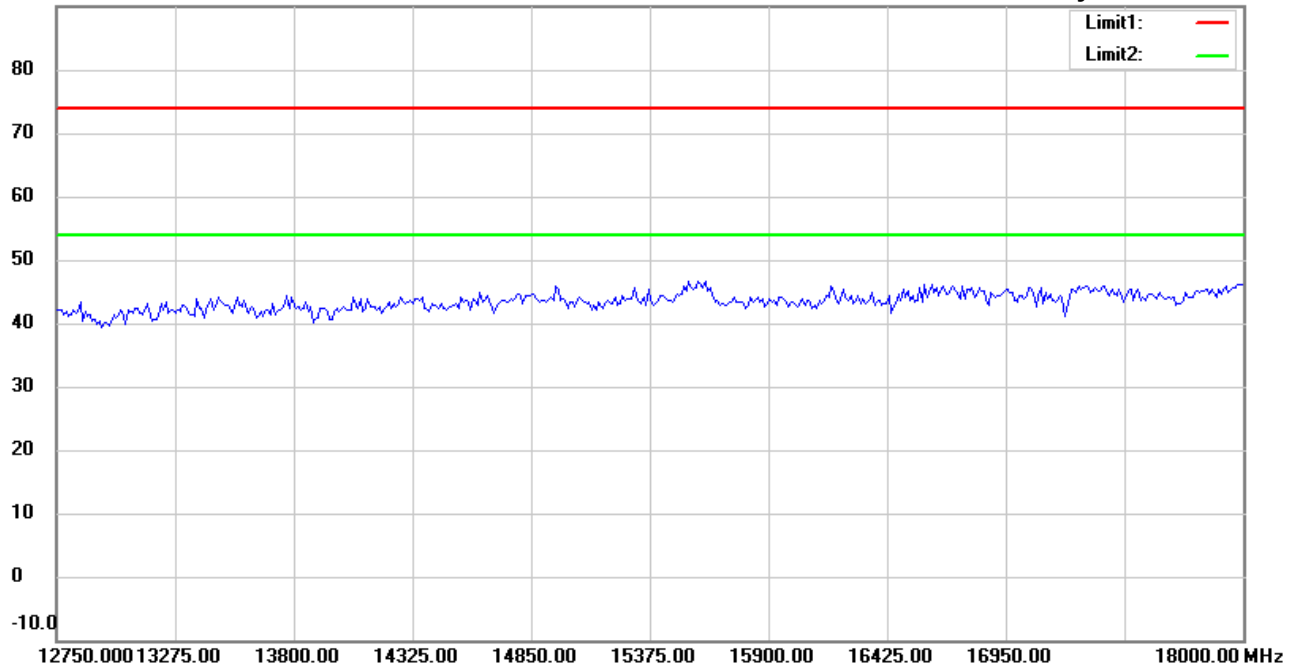
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:09:51 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

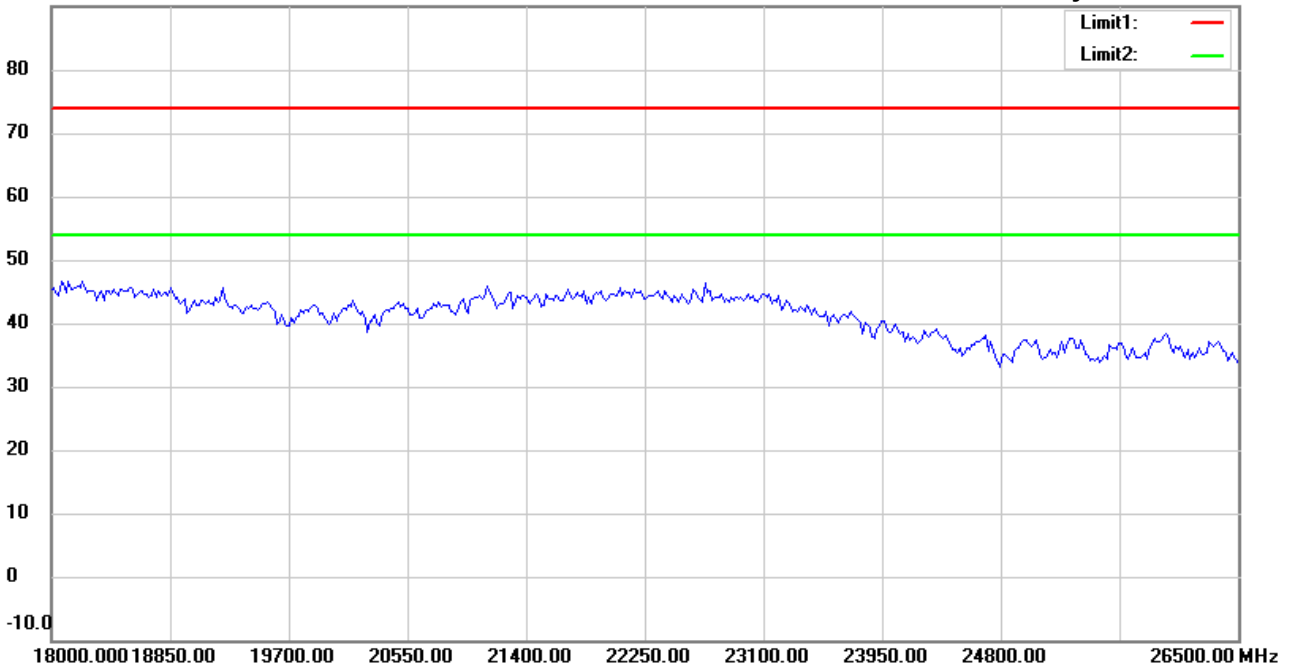
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:06:34 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

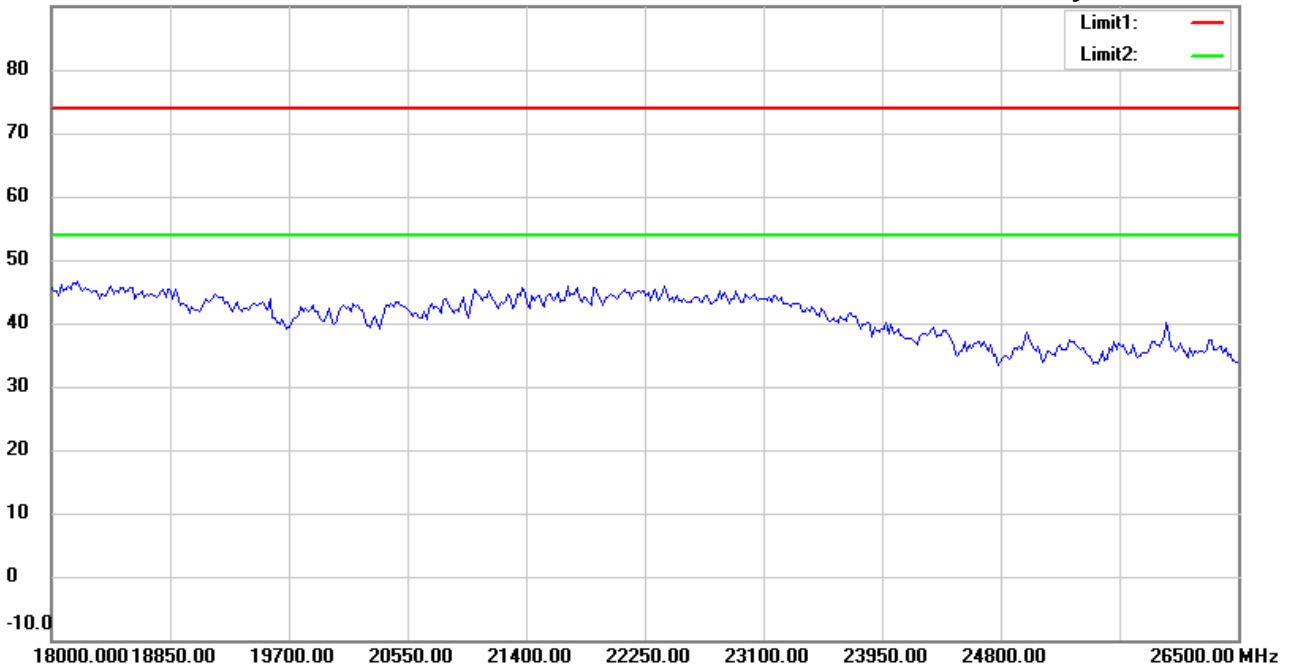
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 5:10:01 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

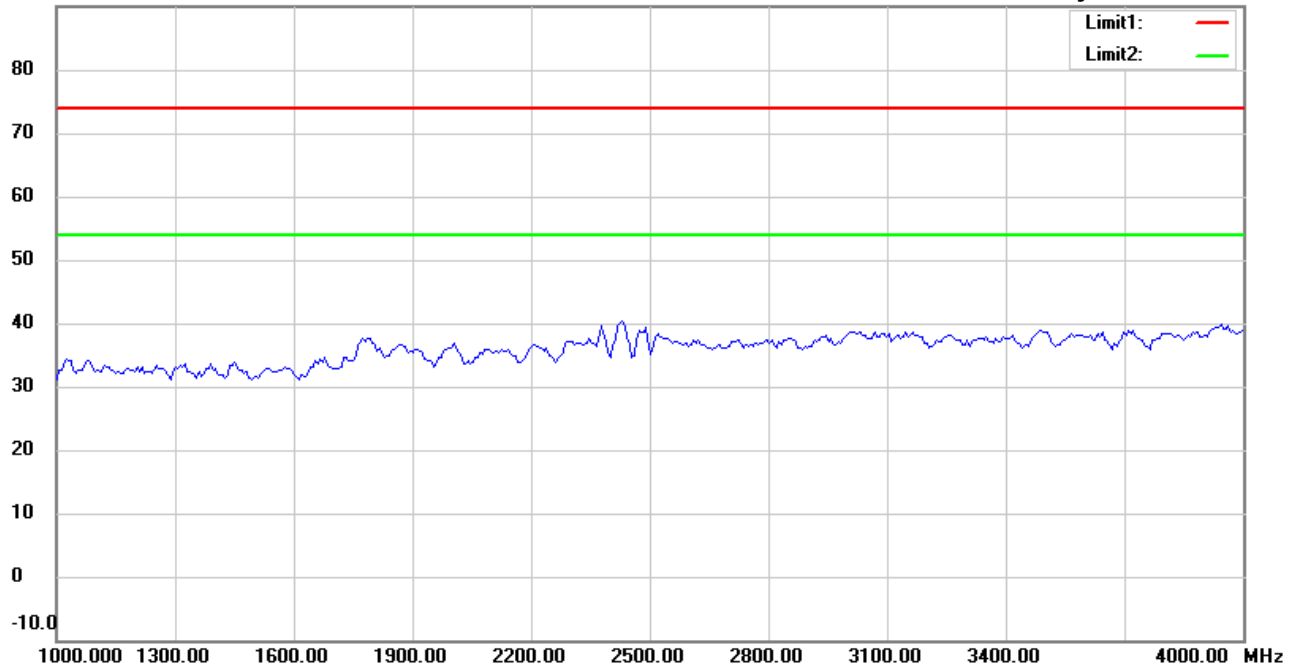
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:50:48 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22004-19834

M/N:

Test Mode : TX 2480MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

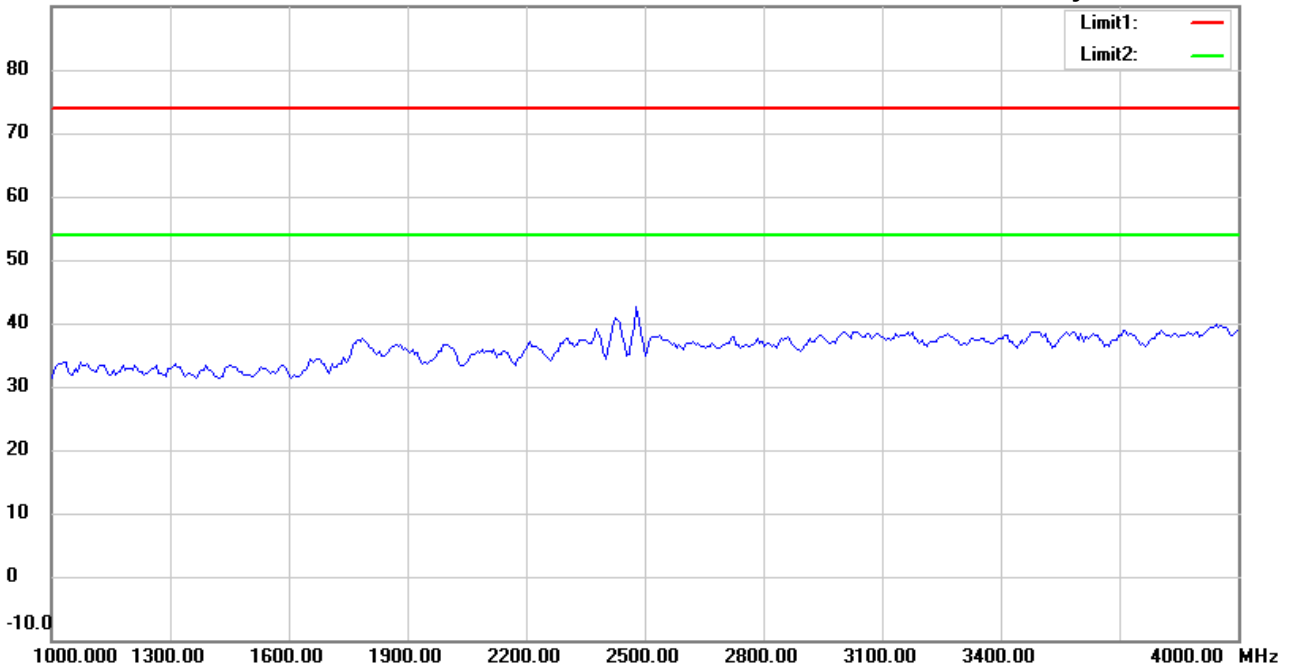
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:54:22 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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 Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

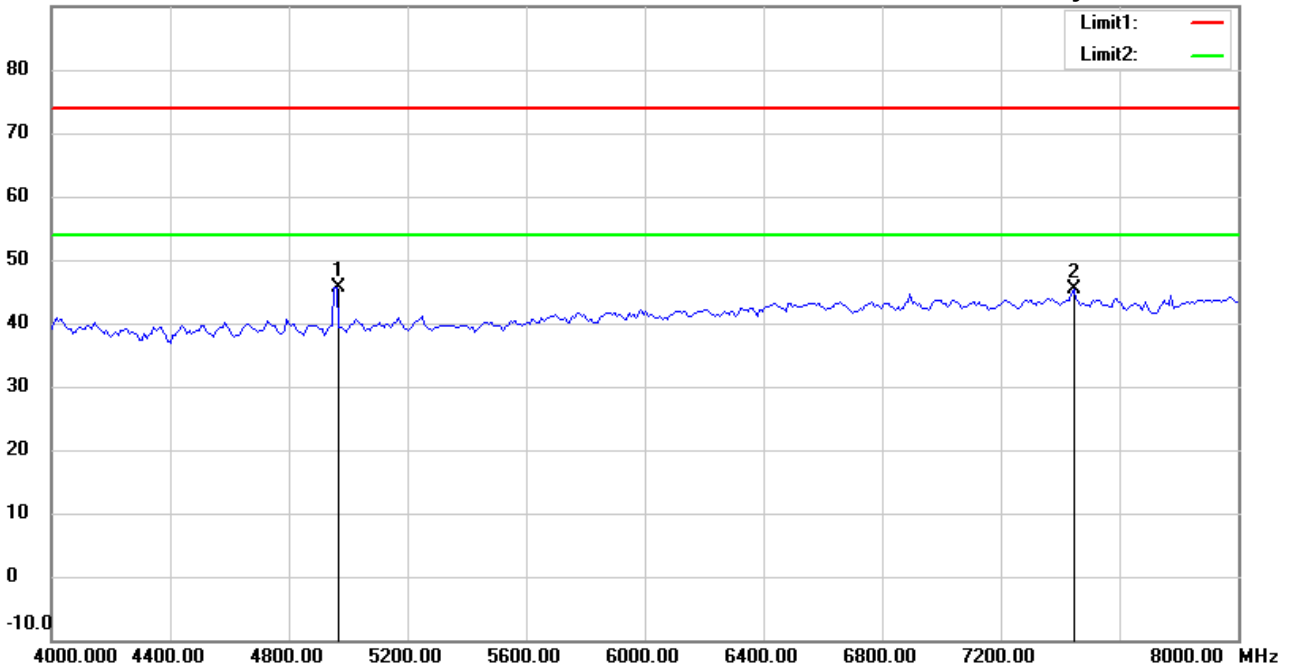
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:51:49 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| * | 4961.924 | 46.93 | peak | -1.41 | 45.52 | 74.00 | 150 | 230 | -28.48 | |
| | 7440.000 | 41.75 | peak | 3.68 | 45.43 | 74.00 | 150 | 248 | -28.57 | |

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

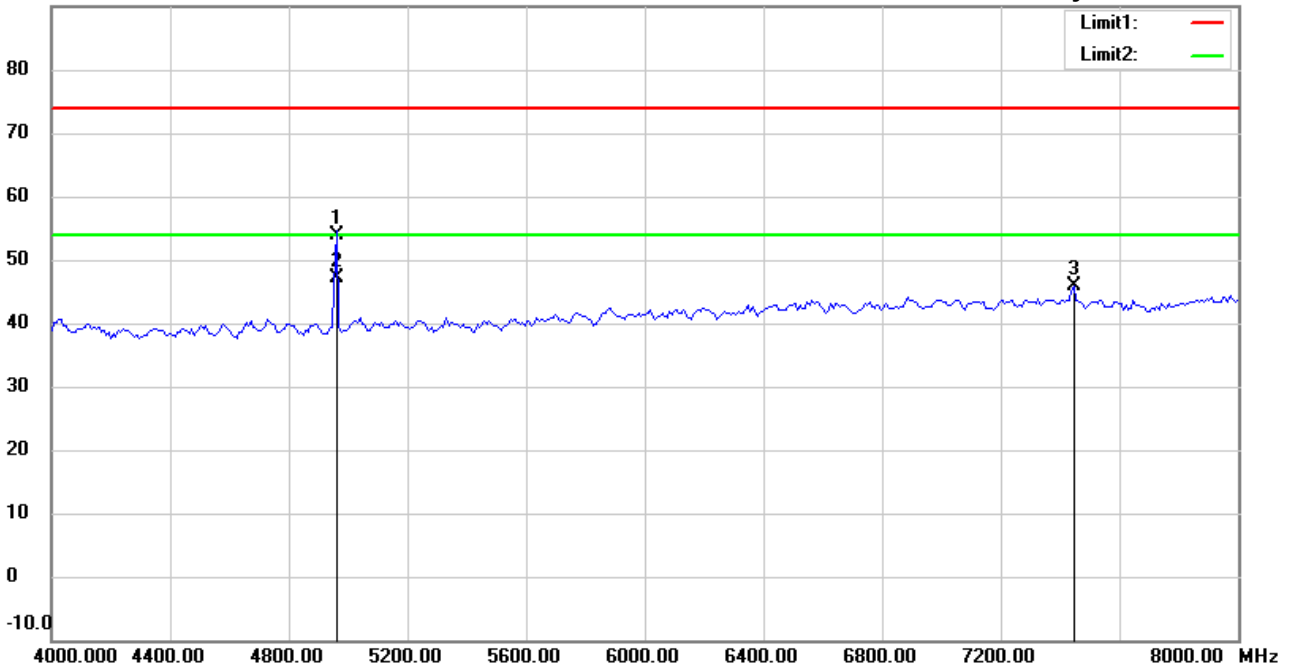
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:55:23 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 4959.997 | 55.28 | peak | -1.41 | 53.87 | 74.00 | 150 | 245 | -20.13 | |
| * | 4959.997 | 48.59 | AVG | -1.41 | 47.18 | 54.00 | 150 | 245 | -6.82 | |
| | 7440.000 | 42.08 | peak | 3.68 | 45.76 | 74.00 | 150 | 157 | -28.24 | |



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

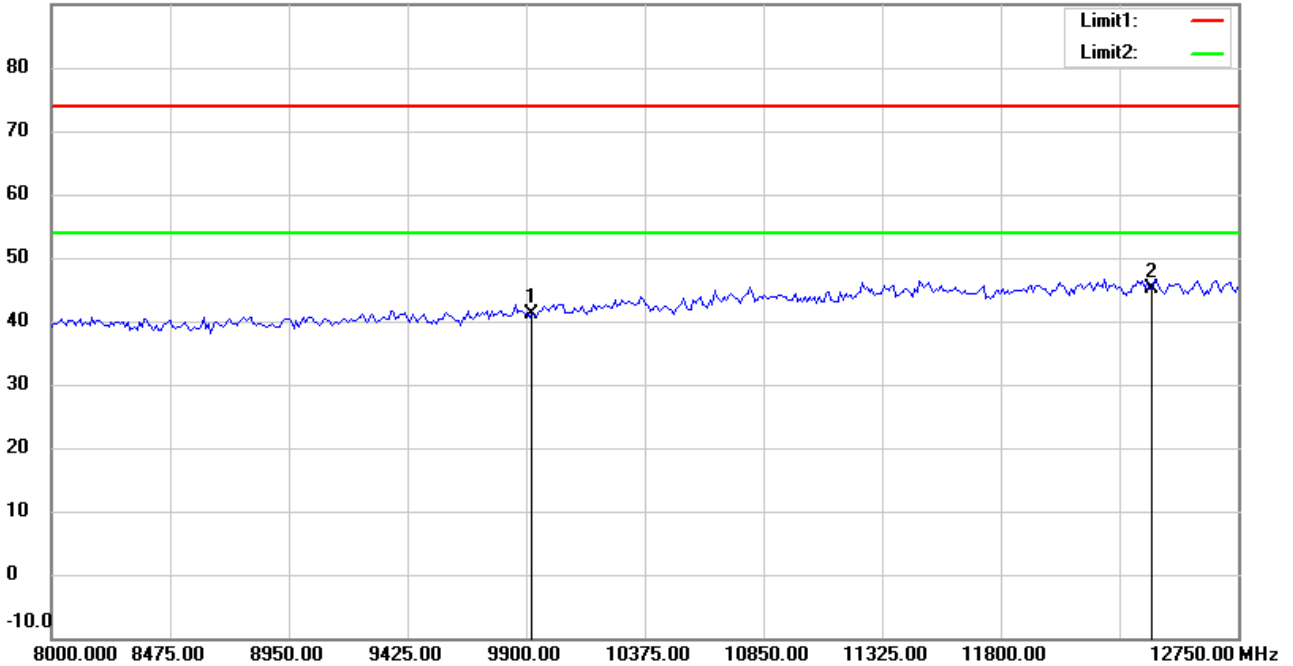
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:52:56 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9920.000 | 33.96 | peak | 7.14 | 41.10 | 74.00 | 150 | 216 | -32.90 | |
| * | 12400.000 | 32.35 | peak | 12.75 | 45.10 | 74.00 | 150 | 249 | -28.90 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

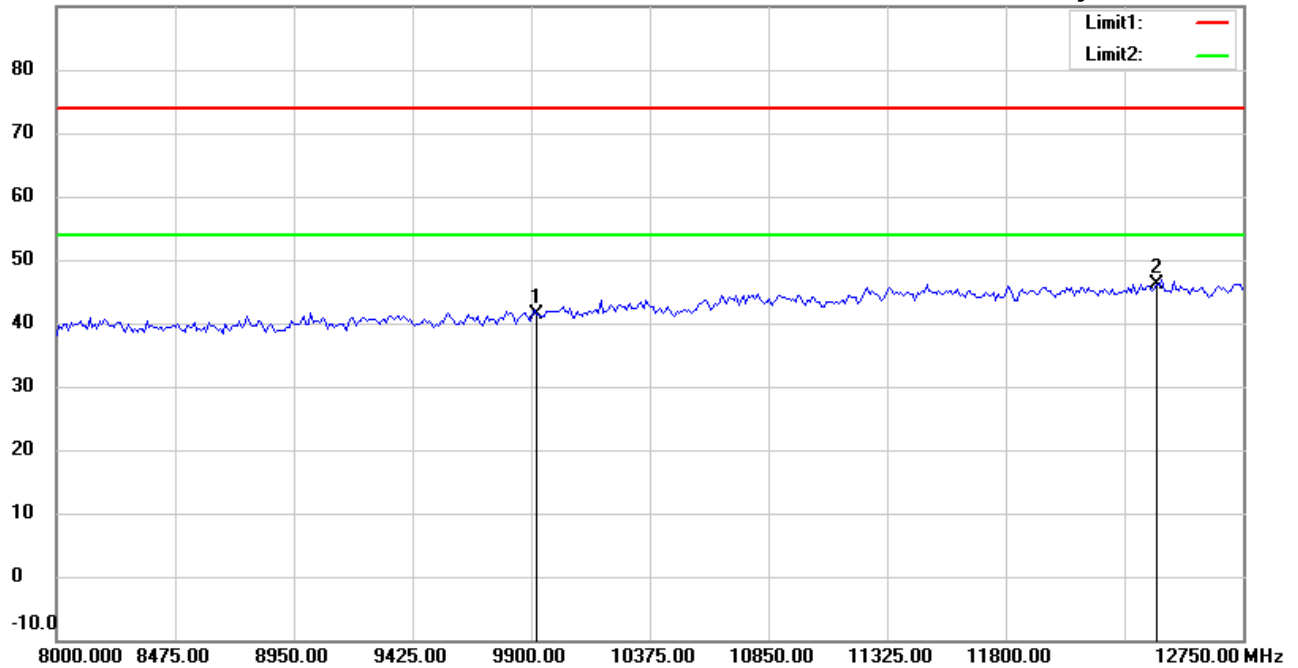
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:56:24 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
| | 9920.000 | 34.27 | peak | 7.14 | 41.41 | 74.00 | 150 | 235 | -32.59 | |
| * | 12400.000 | 33.43 | peak | 12.75 | 46.18 | 74.00 | 150 | 165 | -27.82 | |

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

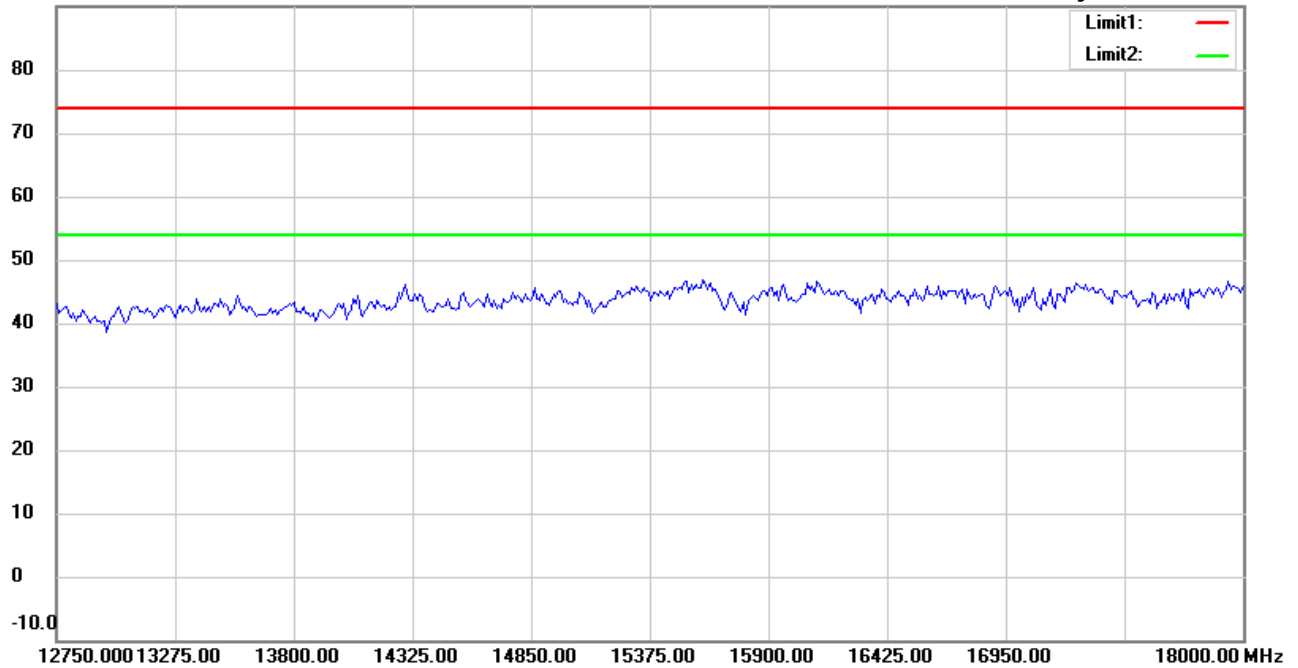
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:53:11 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

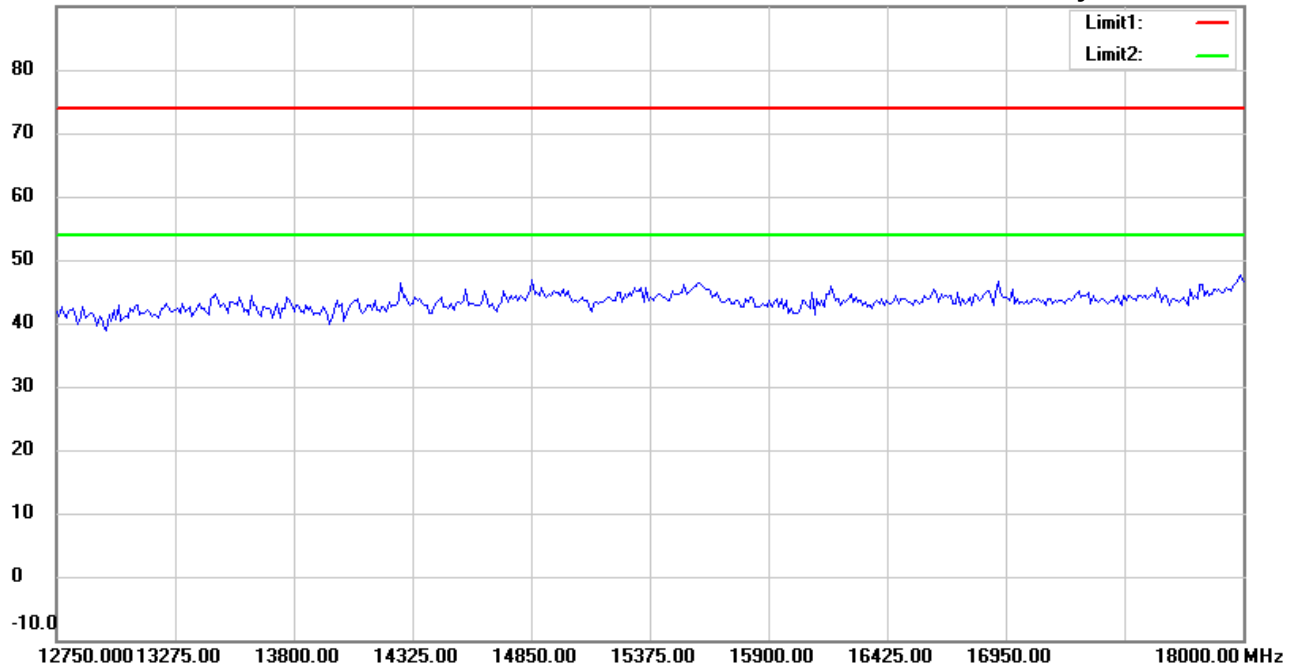
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:56:38 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

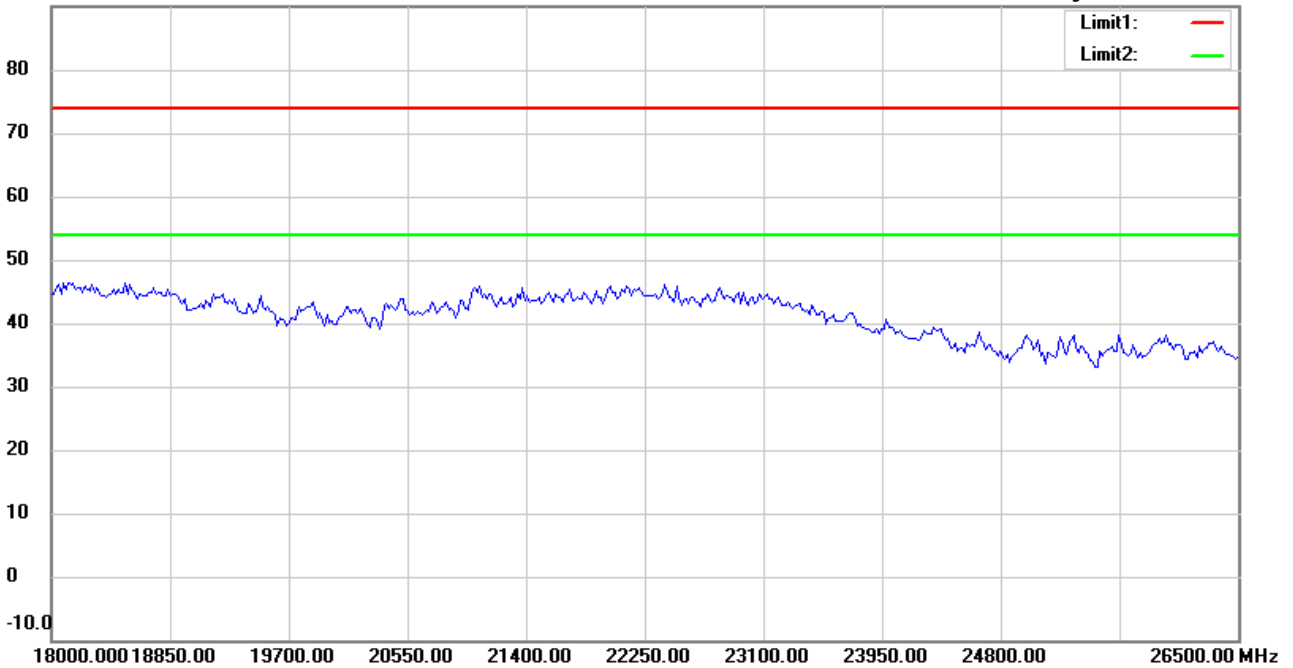
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:53:21 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

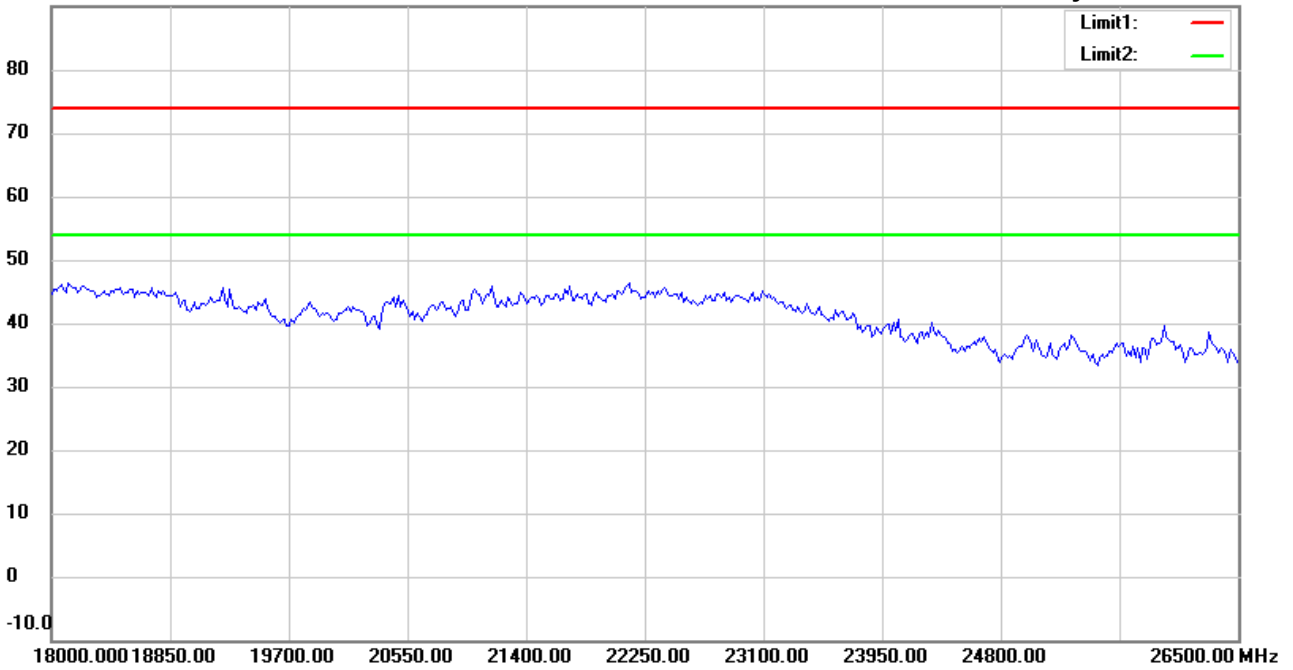
Date: 7/13/2020

Temperature:29.1 °C

90.0 dBuV/m

Time: 4:56:49 PM

Humidity:51.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22004-19834

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2480MHz

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corr. factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Ant.Pos (cm) | Tab.Pos (deg.) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|
|-----|-----------------|----------------|----------|---------------------|-----------------|----------------|--------------|----------------|-------------|---------|

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