

FCC PART 15 SUBPART C TEST REPORT

for

Wall Plate Audio Amp. Built-in Bluetooth Receiver

Model No.: A-1328WPBT

FCC ID: 2ACIATTBT001

of

Applicant: Ten Tronics Co., Ltd
Address: No. 33, Lane 347, Chung-San S.Road Young-Kang District,
Tainan, Taiwan

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21405-14172-C-1



Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001

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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.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

Tester:

June 17, 2014

Robert Ren

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 17, 2014

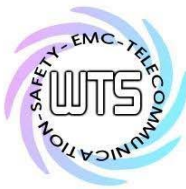
Kevin Wang

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. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1



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: Ten Tronics Co., Ltd

Street: No. 33, Lane 347, Chung-San S. Road Young-Kang District,

Town: Tainan,

Country: Taiwan

Telephone: 06-231-0285

Fax: 06-201-6087



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1.4 Application details

Date of receipt of test item: May 19, 2014
Date of test: from May 20, 2014 to June 17, 2014

1.5 General information of Test item

Type of test item: Wall Plate Audio Amp. Built-in Bluetooth Receiver
Model Number: A-1328WPBT
Multi-listing model number: A-1351
Photos: see Annex

Technical data

Frequency band: 2402 - 2480 MHz
Frequency (ch A): 2402 MHz
Frequency (ch B): 2441 MHz
Frequency (ch C): 2480 MHz

Transmitter

Unom

Normal Mode
Power (ch 0): Conducted: -1.60 dBm
Power (ch 39): Conducted: -2.37 dBm
Power (ch 78): Conducted: -2.67 dBm

EDR Mode
Power (ch 0): Conducted: -2.03 dBm
Power (ch 39): Conducted: -2.77 dBm
Power (ch 78): Conducted: -3.13 dBm

Power supply: Adaptor (I/P:100-240V~50/60Hz, 0.8A ; O/P:12V, 2.0A)

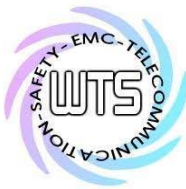
Operation modes: Duplex

Modulation Type: GFSK

Antenna Type: PCB antenna

Antenna gain: 1.13 dBi

Host device: none



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Classification:

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

Manufacturer: (if applicable)

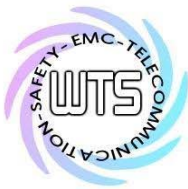
Name: ./.
Street: ./.
Town: ./.
Country: ./.
Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2013-10)

Special statement:

The operation conditions of the test sample during the all test items were under the demand of the applicant. Any deviation from the required condition of test standard is the responsibility of the applicant.



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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 as specified in 3 were ascertained in the course of the tests performed.

2.2 Test environment

| | |
|--------------------------------|---|
| Temperature: | 23 °C |
| Relative humidity content: | 20 ... 75 % |
| Air pressure: | 86 ... 103 kPa |
| Details of power supply | Adaptor (I/P:100-240V~50/60Hz, 0.8A ; O/P:12V, 2.0A) |
| Extreme conditions parameters: | test voltage : -- extreme min : -- V max : -- V |



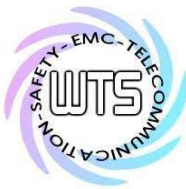
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2.3 Test Equipment List

| No. | Test equipment | Type | Serial No. | Manufacturer | Cal. Date | Next Cal. Date |
|--------------|---|------------------------|---------------|--------------------|---------------|----------------|
| ETSTW-CE 001 | EMI TEST RECEIVER | ESHS10 | 842121/013 | R&S | 2013/9/2 | 2014/9/1 |
| ETSTW-CE 003 | AC POWER SOURCE | APS-9102 | D161137 | GW | Function Test | |
| 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 | 2013/7/10 | 2014/7/9 |
| ETSTW-CE 016 | TWO-LINE V-NETWORK | ENV216 | 100050 | R&S | 2013/10/28 | 2014/10/27 |
| ETSTW-RE 004 | EMI TEST RECEIVER | ESI 40 | 832427/004 | R&S | 2013/9/2 | 2014/9/1 |
| ETSTW-RE 005 | EMI TEST RECEIVER | ESVS10 | 843207/020 | R&S | 2013/9/2 | 2014/9/1 |
| 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 | 2013/10/15 | 2014/10/14 |
| ETSTW-RE 027 | Passive Loop Antenna | 6512 | 00034563 | ETS-Lindgren | 2013/7/3 | 2014/7/2 |
| ETSTW-RE 030 | Double-Ridged Guide Horn Antenna | 3117 | 00035224 | EMCO | 2014/2/25 | 2015/2/24 |
| ETSTW-RE 045 | ESA-E SERIES SPECTRUM ANALYZER | E4404B | MY45111242 | Agilent | Pre-test Use | |
| ETSTW-RE 049 | TRILOG Super Broadband test Antenna | VULB 9160 | 9160-3185 | Schwarzbeck | 2014/2/18 | 2015/2/17 |
| ETSTW-RE 050 | Attenuator 10dB | 50HF-010-1 | None | JFW | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 051 | Attenuator 6dB | 50HF-006-1 | None | JFW | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 053 | Attenuator 3dB | 50HF-003-1 | None | JFW | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 055 | SPECTRUM ANALYZER | FSU 26 | 200074 | R&S | 2014/6/05 | 2015/6/04 |
| ETSTW-RE 060 | Attenuator 30dB | 5015-30 | F651012z-01 | ATM | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 062 | Amplifier Module | CHC 2 | None | KMIC | 2013/11/27 | 2014/11/26 |
| ETSTW-RE 064 | Bluetooth Test Set | MT8852B-042 | 6K00005709 | Anritsu | Function Test | |
| ETSTW-RE 069 | Double-Ridged Guide Horn Antenna | 3117 | 00069377 | EMCO | Function Test | |
| ETSTW-RE 072 | CELL SITE TEST SET | 8921A | 3339A00375 | HP | 2013/10/7 | 2014/10/6 |
| ETSTW-RE 088 | SOLID STATE AMPLIFIER | KMA180265A01 | 99057 | KMIC | 2013/10/11 | 2014/10/10 |
| ETSTW-RE 099 | DC Block | 50DB-007-1 | None | JFW | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 106 | Humidity Temperature Meter | TES-1366 | 091011113 | TES | 2013/12/04 | 2014/12/03 |
| ETSTW-RE 111 | TRILOG Super Broadband test Antenna | VULB 9160 | 9160-3309 | Schwarz beck | 2013/12/27 | 2014/12/26 |
| ETSTW-RE 112 | AC POWER SOURCE | TFC-1005 | None | T-Power | Function test | |
| ETSTW-RE 115 | 2.4GHz Notch Filter | N0124411 | 473874 | MICROWAVE CIRCUITS | 2014/1/10 | 2015/1/09 |
| ETSTW-RE 120 | RF Player | MP9200 | MP9210-111022 | ADIVIC | Function test | |
| ETSTW-RE 122 | SIGNAL GENERATOR | SMF100A | 102149 | R&S | 2013/6/28 | 2014/6/27 |
| ETSTW-RE 125 | 5GHz Notch filter | 5NSL11-5200/E221.3-O/O | 1 | K&L Microwave | 2013/8/16 | 2014/8/15 |



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| | | | | | | |
|-----------------|--------------------------------------|--|--------------|--------------------|------------------|------------|
| ETSTW-RE 126 | 5GHz Notch filter | 5NSL11-5800/E221.3-O/O | 1 | K&L Microwave | 2013/8/16 | 2014/8/15 |
| ETSTW-RE 127 | RF Switch Box | RFS-01 | None | WTS | 2014/3/3 | 2015/3/2 |
| ETSTW-RE 128 | 5.3GHz Notch filter | N0153001 | SN487233 | Microwave Circuits | 2013/8/13 | 2014/8/12 |
| ETSTW-RE 129 | 5.5GHz Notch filter | N0555984 | SN487234 | Microwave Circuits | 2013/8/13 | 2014/8/12 |
| ETSTW-RE 130 | Handheld RF Spectrum Analyzer | N9340A | CN0147000204 | Agilent | Pre-test Use | |
| ETSTW-GSM 002 | Universal Radio Communication Tester | CMU 200 | 109439 | R&S | 2013/10/7 | 2014/10/6 |
| ETSTW-GSM 019 | Band Reject Filter | WRCTF824/849-822/851-40 /12+9SS | 3 | WI | 2014/1/10 | 2015/1/09 |
| ETSTW-GSM 020 | Band Reject Filter | WRCD1747/1748-1743/1752-32/5SS | 1 | WI | 2014/1/10 | 2015/1/09 |
| ETSTW-GSM 021 | Band Reject Filter | WRCD1879.5/1880.5-1875.5/1884.5-32/5SS | 3 | WI | 2014/1/10 | 2015/1/09 |
| ETSTW-GSM 022 | Band Reject Filter | WRCT901.9/903.1-904.25-50/8SS | 1 | WI | 2014/1/10 | 2015/1/09 |
| ETSTW-GSM 023 | Power Divider | 4901.19.A | None | SUHNER | 2013/9/18 | 2014/9/17 |
| ETSTW-Cable 010 | BNC Cable | 5 M BNC Cable | None | JYE BAO CO.,LTD. | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 011 | BNC Cable | BNC Cable 1 | None | JYE BAO CO.,LTD. | Pre-test Use NCR | |
| ETSTW-Cable 012 | N TYPE To SMA Cable | Cable 012 | None | JYE BAO CO.,LTD. | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 016 | BNC Cable | Switch Box | B Cable 1 | Schwarz beck | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 017 | BNC Cable | X Cable | B Cable 2 | Schwarz beck | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 018 | BNC Cable | Y Cable | B Cable 3 | Schwarz beck | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 019 | BNC Cable | Z Cable | B Cable 4 | Schwarz beck | 2014/2/27 | 2015/2/26 |
| ETSTW-Cable 022 | N TYPE Cable | 5006 | 0002 | JYE BAO CO.,LTD. | 2014/2/19 | 2015/2/18 |
| ETSTW-Cable 026 | Microwave Cable | SUCOFLEX 104 | 279075 | HUBER+SUHNER | 2014/3/3 | 2015/3/2 |
| ETSTW-Cable 027 | Microwave Cable | SUCOFLEX 104 | 279083 | HUBER+SUHNER | 2014/3/3 | 2015/3/2 |
| ETSTW-Cable 028 | Microwave Cable | FA147A0015M2020 | 30064-2 | UTIFLEX | 2013/10/11 | 2014/10/10 |
| ETSTW-Cable 029 | Microwave Cable | FA147A0015M2020 | 30064-3 | UTIFLEX | 2013/10/11 | 2014/10/10 |
| ETSTW-Cable 030 | Microwave Cable | SUCOFLEX 104 (S Cable 9) | 279067 | HUBER+SUHNER | 2014/3/3 | 2015/3/2 |
| ETSTW-Cable 031 | Microwave Cable | SUCOFLEX 104 (S Cable 10) | 238092 | HUBER+SUHNER | 2013/11/27 | 2014/11/26 |
| ETSTW-Cable 043 | Microwave Cable | SUCOFLEX 104 | 317576 | HUBER+SUHNER | 2013/11/27 | 2014/11/26 |
| ETSTW-Cable 047 | Microwave Cable | SUCOFLEX 104 | 325518 | HUBER+SUHNER | 2013/11/27 | 2014/11/26 |
| ETSTW-Cable 053 | N TYPE To SMA Cable | RG142 | None | JYE BAO CO.,LTD. | 2014/2/19 | 2015/2/18 |
| ETSTW-Cable 058 | Microwave Cable | SUCOFLEX 104 | none | HUBER+SUHNER | 2014/2/19 | 2015/2/18 |
| WTSTW-SW 002 | EMI TEST SOFTWARE | EZ EMC | None | Farad | Version ETS-03A1 | |



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50 μ H 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 C63.4-2009 6.4 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. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

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 C63.4-2009 6.3.1. 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.

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: **930600**.

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:

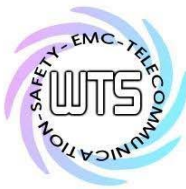
Average = Peak + Duty Factor

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

$T = 100\text{ms}$ 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 C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



Worldwide Testing Services(Taiwan) Co., Ltd.

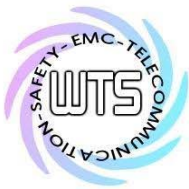
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

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 radiated Power | 15.247(b) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Spurious Emissions radiated – Transmitter operating | 15.247(c) | <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"/> |
| Band-edge Compliance of RF Emission | 15.247(c) | <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"/> |

The follows is intended to leave blank.



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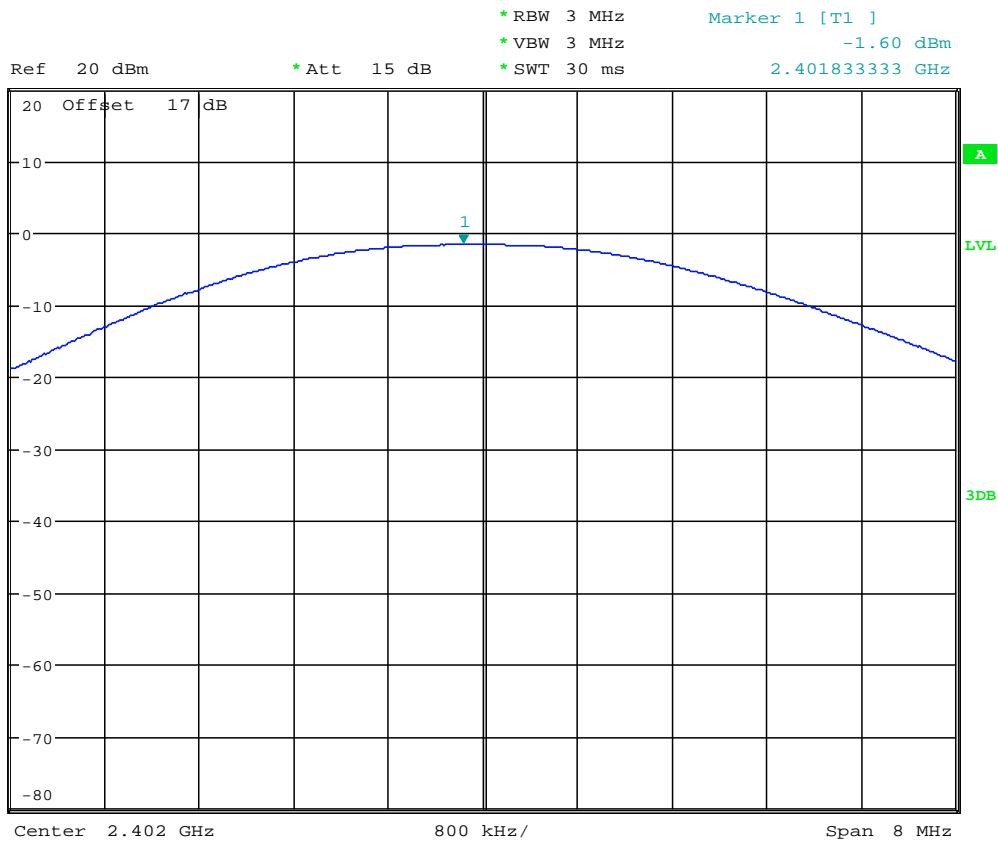
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

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.

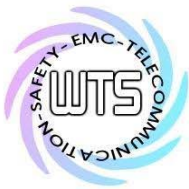
The power was measured with modulation (declared by the applicant).

Normal mode



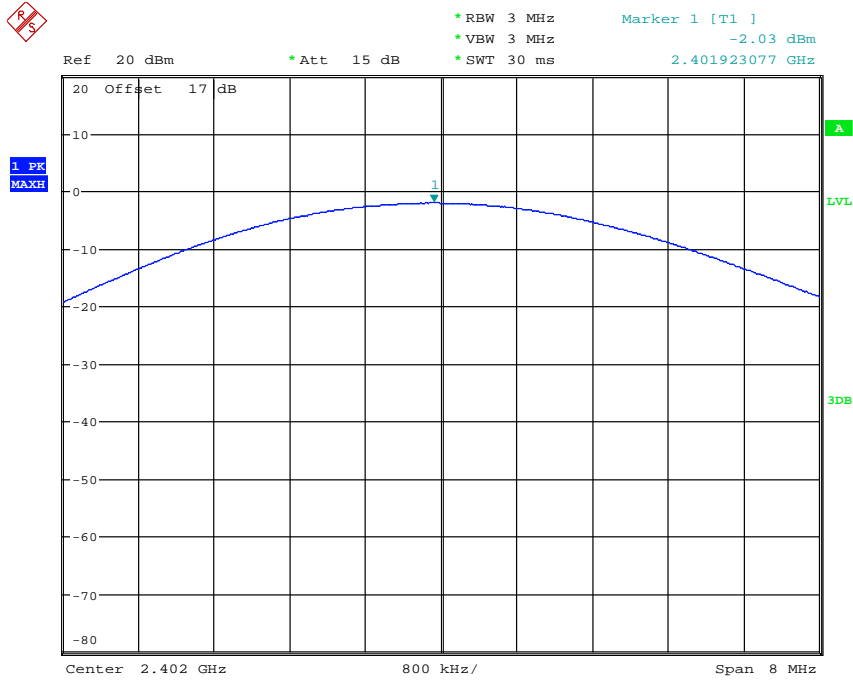
MAX OUTPUT POWER CH0

Date: 7.JUN.2014 17:24:52

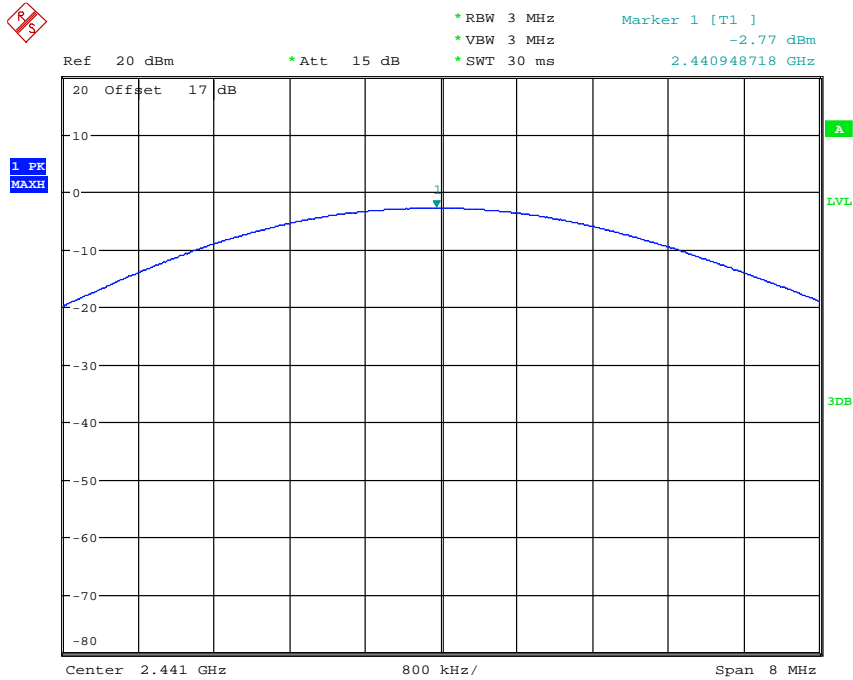


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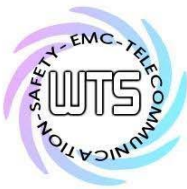
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001
EDR mode



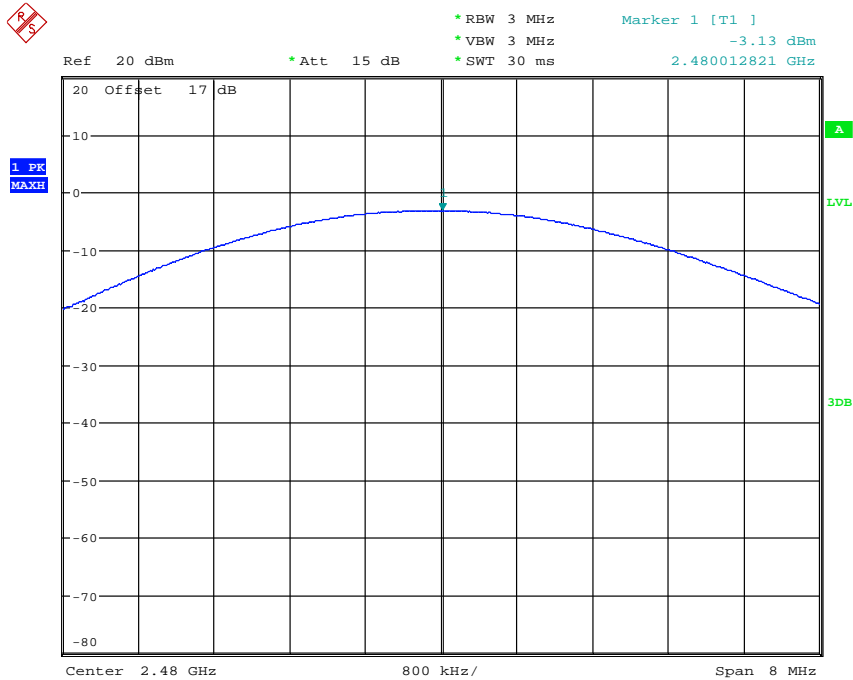
MAX OUTPUT POWER CH0 EDR MODE
Date: 7.JUN.2014 17:32:29



MAX OUTPUT POWER CH39 EDR MODE
Date: 7.JUN.2014 17:33:33



Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001



MAX OUTPUT POWER CH78 EDR MODE
 Date: 7.JUN.2014 17:34:09

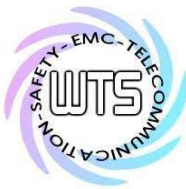
Maximum Peak Output Power

Limits:

| Frequency MHz | Number of hopping channels | | | |
|------------------|----------------------------|-----------|--------------|--------------|
| | ≥ 75 | ≥ 50 | $49 \geq 25$ | $74 \geq 15$ |
| 902-928 | -- | 30 dBm | 24 dBm | -- |
| 2400-2483.5 MHz | 30 dBm | -- | -- | 21 dBm |
| 5725-5850 MHz | 30 dBm | -- | -- | -- |

In case of employing transmitter antennas having antenna gain >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



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3.2 RF Exposure Compliance Requirements

According to Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01 this spread spectrum transmitter is categorically excluded from routine environmental evaluation because of the low power level, where there is a high likelihood of compliance with RF exposure standards.

The antenna used for this Bluetooth transceiver module must not be co-located or operating in conjunction with any other antenna or transmitter.

3.3 Out of Band Radiated Emissions

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 below 1GHz :

Max. reading – 20 dB

Guidance on Measurement of FHSS 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.” Here the correction was added to the limit instead subtracted from the reading.

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

For frequencies above 1GHz (Peak measurements).

Limit = max. aver. reading-20dB +20dB(because Peak detector is used)

For frequencies above 1GHz (Average measurements).

Max. reading – 20 dB - duty cycle correction:

No duty cycle correction was added to the reading

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.4 Transmitter Radiated Emissions in restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26000 MHz.

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

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.” Here the correction was added to the limit instead subtracted from the reading.

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

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dB μ V/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dB μ V/m + 20 dB= 74 dB μ V/m

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.5 Spurious emissions (tx)

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

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

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 "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

Summary table with radiated data of the test plots

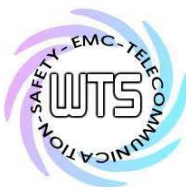
Model: A-1328WPBT Date: 2014/6/3
 Mode: TX_2402 MHz Temperature: 24 °C Engineer: Leon
 Polarization: Horizontal Humidity: 60 %

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 397.3947 | 26.23 | peak | 18.61 | 44.84 | 46.00 | -1.16 | 235 | 100 |
| 414.8897 | 24.65 | peak | 19.10 | 43.75 | 46.00 | -2.25 | 170 | 100 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|------|-------------------|-----------------|------|----------------|-------|-------------|---------------------|----------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4801.6030 | 45.91 | --- | 0.27 | 46.18 | --- | 74.00 | 54.00 | -27.82 | 120 | 100 |
| 7206.0000 | 39.60 | --- | 3.85 | 43.45 | --- | 74.00 | 54.00 | -30.55 | 155 | 100 |
| 9608.0000 | 33.41 | --- | 7.93 | 41.34 | --- | 74.00 | 54.00 | -32.66 | 75 | 100 |
| 12010.0000 | 32.33 | --- | 12.65 | 44.98 | --- | 74.00 | 54.00 | -29.02 | 210 | 100 |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|-----------------|----------------|----------|-------------|-----------------|----------------|-------------|---------------------|----------------|
| 41.6633 | 21.58 | peak | 13.93 | 35.51 | 40.00 | -4.49 | 120 | 100 |
| 414.8898 | 23.55 | peak | 19.10 | 42.65 | 46.00 | -3.35 | 155 | 100 |



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| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|--------------------|------|-------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4801.6030 | 43.34 | --- | 0.27 | 43.61 | --- | 74.00 | 54.00 | -30.39 | 90 | 100 |
| 7206.0000 | 41.22 | --- | 3.85 | 45.07 | --- | 74.00 | 54.00 | -28.93 | 135 | 100 |
| 9608.0000 | 33.85 | --- | 7.93 | 41.78 | --- | 74.00 | 54.00 | -32.22 | 145 | 100 |
| 12017.0340 | 35.24 | --- | 12.71 | 47.95 | --- | 74.00 | 54.00 | -26.05 | 60 | 100 |

Mode: TX_2441 MHz

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|----------|----------------|--------------------|-------------------|----------------|---------------------------|----------------------|
| 317.6954 | 23.46 | peak | 16.43 | 39.89 | 46.00 | -6.11 | 110 | 100 |
| 397.3947 | 26.34 | QP | 18.61 | 44.95 | 46.00 | -1.05 | 75 | 100 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|--------------------|------|-------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4881.7640 | 47.31 | --- | 0.47 | 47.78 | --- | 74.00 | 54.00 | -26.22 | 170 | 100 |
| 7323.0000 | 40.55 | --- | 3.66 | 44.21 | --- | 74.00 | 54.00 | -29.79 | 145 | 100 |
| 9764.0000 | 34.12 | --- | 8.33 | 42.45 | --- | 74.00 | 54.00 | -31.55 | 95 | 100 |
| 12205.0000 | 31.77 | --- | 13.75 | 45.52 | --- | 74.00 | 54.00 | -28.48 | 130 | 100 |

Polarization: Vertical

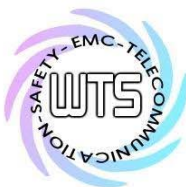
| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|----------|----------------|--------------------|-------------------|----------------|---------------------------|----------------------|
| 47.4950 | 22.43 | peak | 14.20 | 36.63 | 40.00 | -3.37 | 220 | 100 |
| 430.4410 | 25.22 | QP | 19.63 | 44.85 | 46.00 | -1.15 | 90 | 100 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|--------------------|------|-------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4881.7640 | 45.40 | --- | 0.47 | 45.87 | --- | 74.00 | 54.00 | -28.13 | 150 | 100 |
| 7323.0000 | 40.19 | --- | 3.66 | 43.85 | --- | 74.00 | 54.00 | -30.15 | 230 | 100 |
| 9764.0000 | 34.58 | --- | 8.33 | 42.91 | --- | 74.00 | 54.00 | -31.09 | 110 | 100 |
| 12205.0000 | 31.72 | --- | 13.75 | 45.47 | --- | 74.00 | 54.00 | -28.53 | 130 | 100 |

Mode: TX_2480 MHz

Polarization: Horizontal

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|----------|----------------|--------------------|-------------------|----------------|---------------------------|----------------------|
| 399.3387 | 25.91 | peak | 18.66 | 44.57 | 46.00 | -1.43 | 85 | 100 |
| 416.8337 | 23.33 | peak | 19.16 | 42.49 | 46.00 | -3.51 | 160 | 100 |



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| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|--------------------|------|-------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4961.9240 | 44.09 | --- | 0.89 | 44.98 | --- | 74.00 | 54.00 | -29.02 | 60 | 100 |
| 7440.0000 | 40.50 | --- | 3.93 | 44.43 | --- | 74.00 | 54.00 | -29.57 | 115 | 100 |
| 9920.0000 | 33.23 | --- | 8.50 | 41.73 | --- | 74.00 | 54.00 | -32.27 | 175 | 100 |
| 12400.0000 | 32.48 | --- | 14.46 | 46.94 | --- | 74.00 | 54.00 | -27.06 | 220 | 100 |

Polarization: Vertical

| Frequency (MHz) | Reading (dBuV) | Detector | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|----------|----------------|--------------------|-------------------|----------------|---------------------------|----------------------|
| 414.8898 | 25.79 | QP | 19.10 | 44.89 | 46.00 | -1.11 | 80 | 100 |
| 463.4870 | 22.15 | peak | 20.18 | 42.33 | 46.00 | -3.67 | 190 | 100 |

| Frequency (MHz) | Reading (dBuV) | | Factor (dB) Corr. | Result (dBuV/m) | | Limit (dBuV/m) | | Margin (dB) | Table Degree (Deg.) | Ant. High (cm) |
|--------------------|-------------------|------|-------------------------|--------------------|------|-------------------|-------|----------------|---------------------------|----------------------|
| | Peak | Ave. | | Peak | Ave. | Peak | Ave. | | | |
| 4953.9080 | 44.74 | --- | 0.84 | 45.58 | --- | 74.00 | 54.00 | -28.42 | 240 | 100 |
| 7440.0000 | 40.65 | --- | 3.93 | 44.58 | --- | 74.00 | 54.00 | -29.42 | 190 | 100 |
| 9920.0000 | 34.37 | --- | 8.50 | 42.87 | --- | 74.00 | 54.00 | -31.13 | 55 | 100 |
| 12400.0000 | 31.72 | --- | 14.46 | 46.18 | --- | 74.00 | 54.00 | -27.82 | 130 | 100 |

- 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. Measurement uncertainty above 1GHz: 30-1000 MHz = ± 3.68 dB, 1-18 GHz = ± 5.37 dB, 18-40 GHz = ± 3.43 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
 6. See attached diagrams in appendix.

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

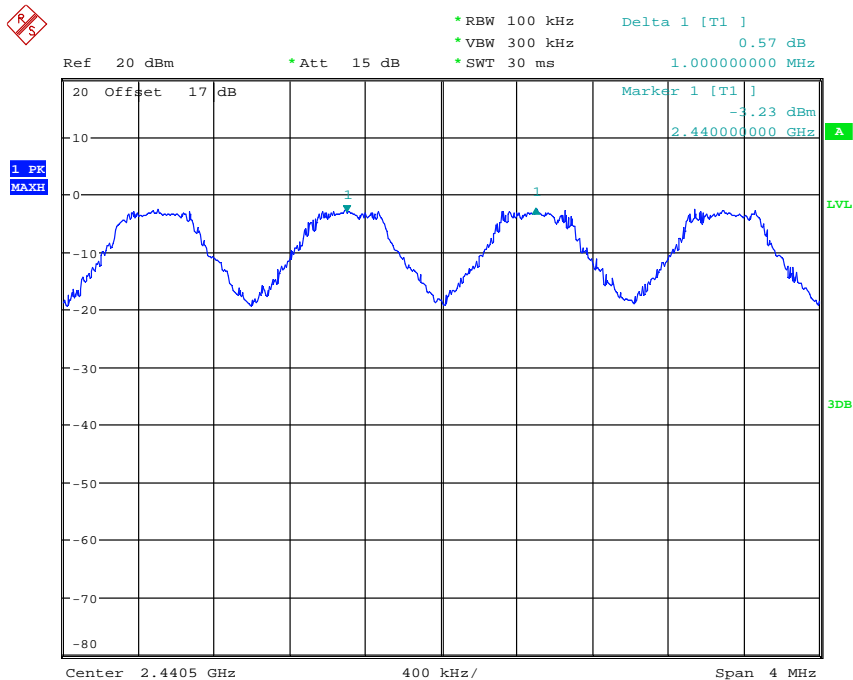
TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 064
 ETSTW-RE 088, ETSTW-RE 018

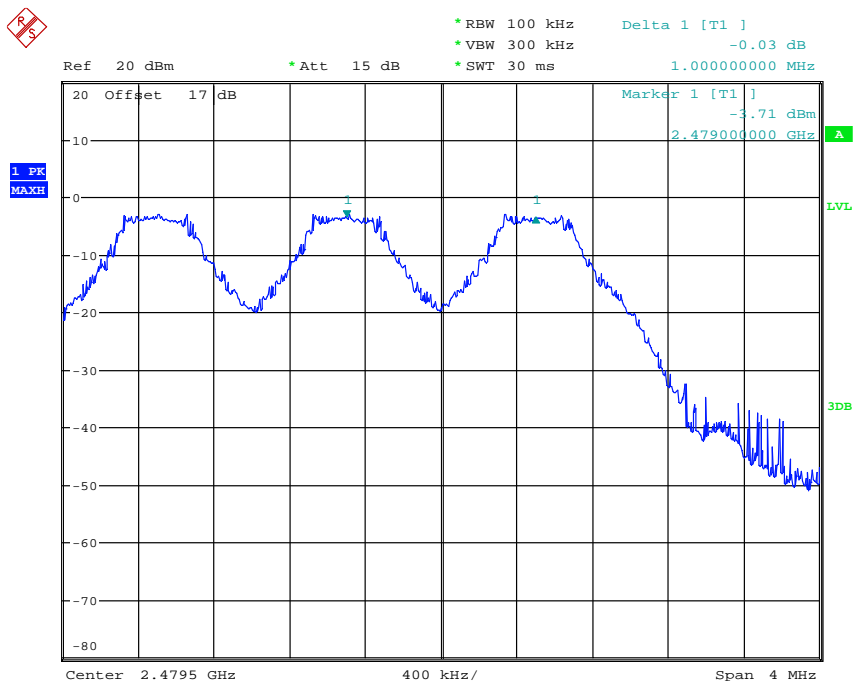


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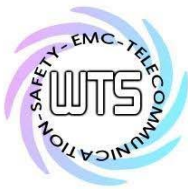
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001



FREQUENCY SEPARATION CH39
Date: 7.JUN.2014 17:31:01



FREQUENCY SEPARATION CH78
Date: 7.JUN.2014 17:31:49



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001

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

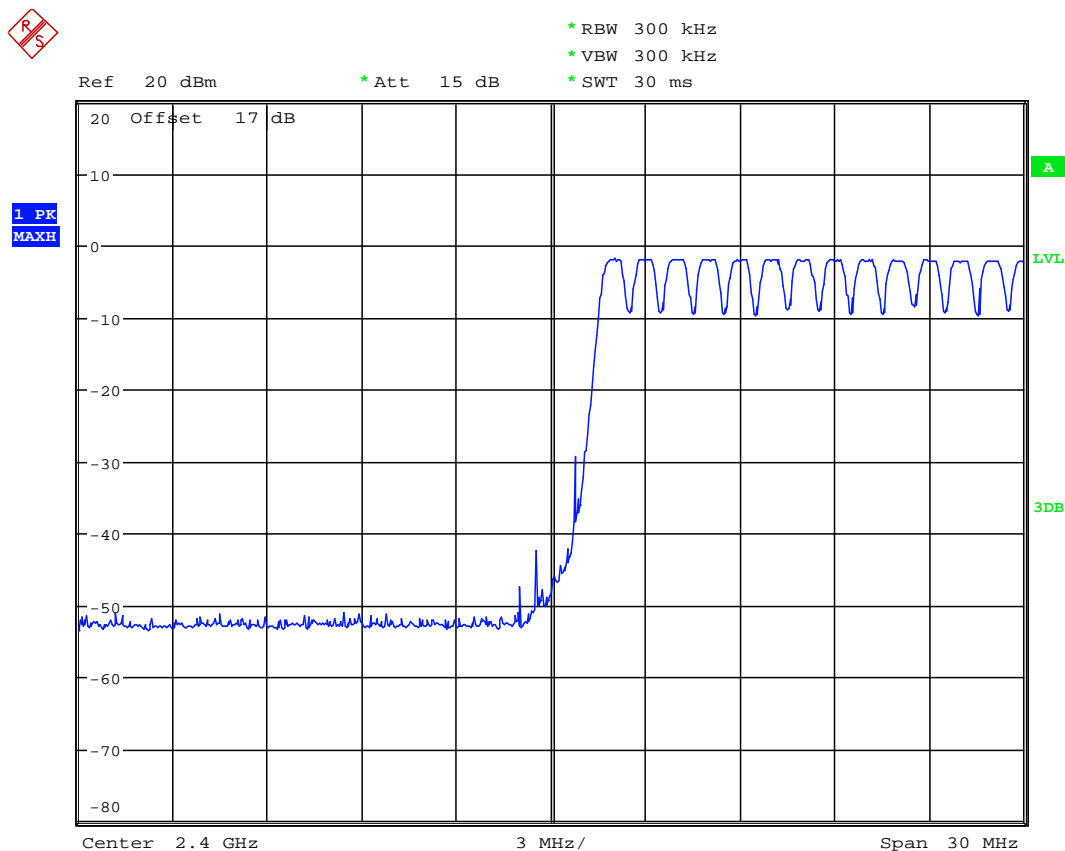


Registration number: W6M21405-14172-C-1
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3.7 Number of Hopping Frequencies

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 at 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.



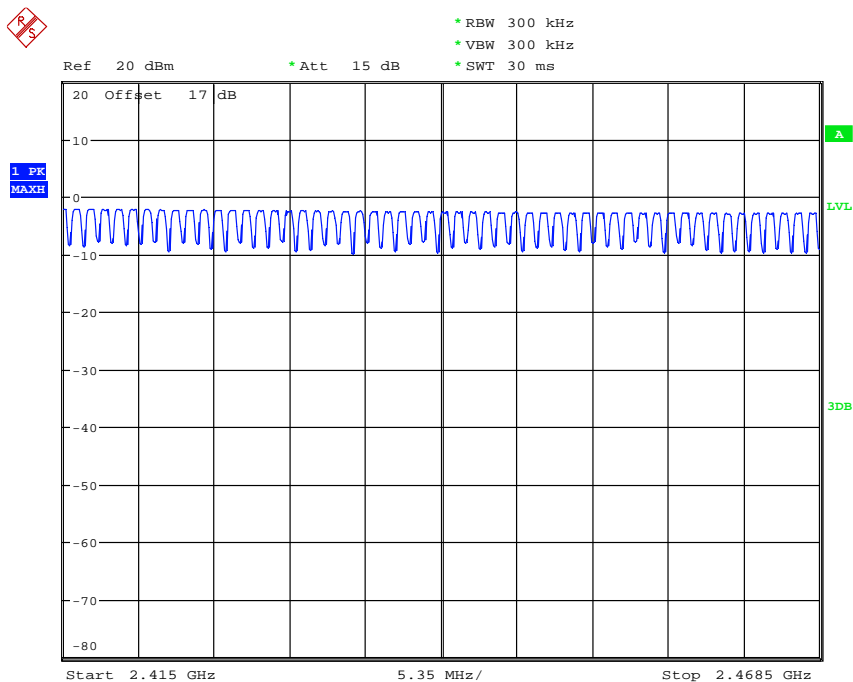
NUMBER OF HOPPING CH0-13

Date: 7.JUN.2014 17:27:36

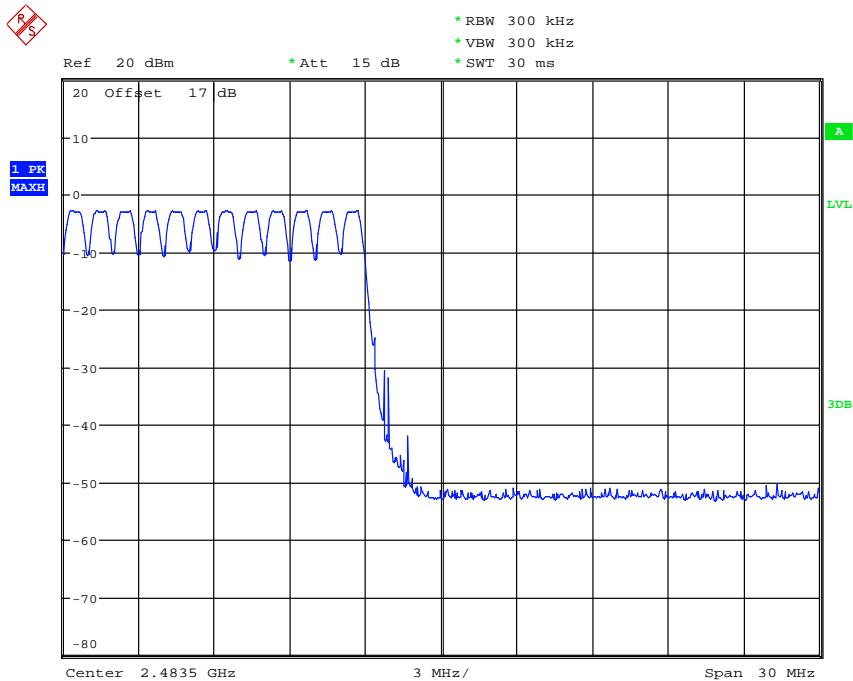


Worldwide Testing Services(Taiwan) Co., Ltd.

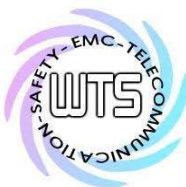
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001



NUMBER OF HOPPING CH14-66
Date: 7.JUN.2014 17:29:24



NUMBER OF HOPPING CH67-78
Date: 7.JUN.2014 17:28:16



Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001

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

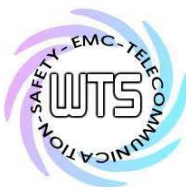
The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

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.



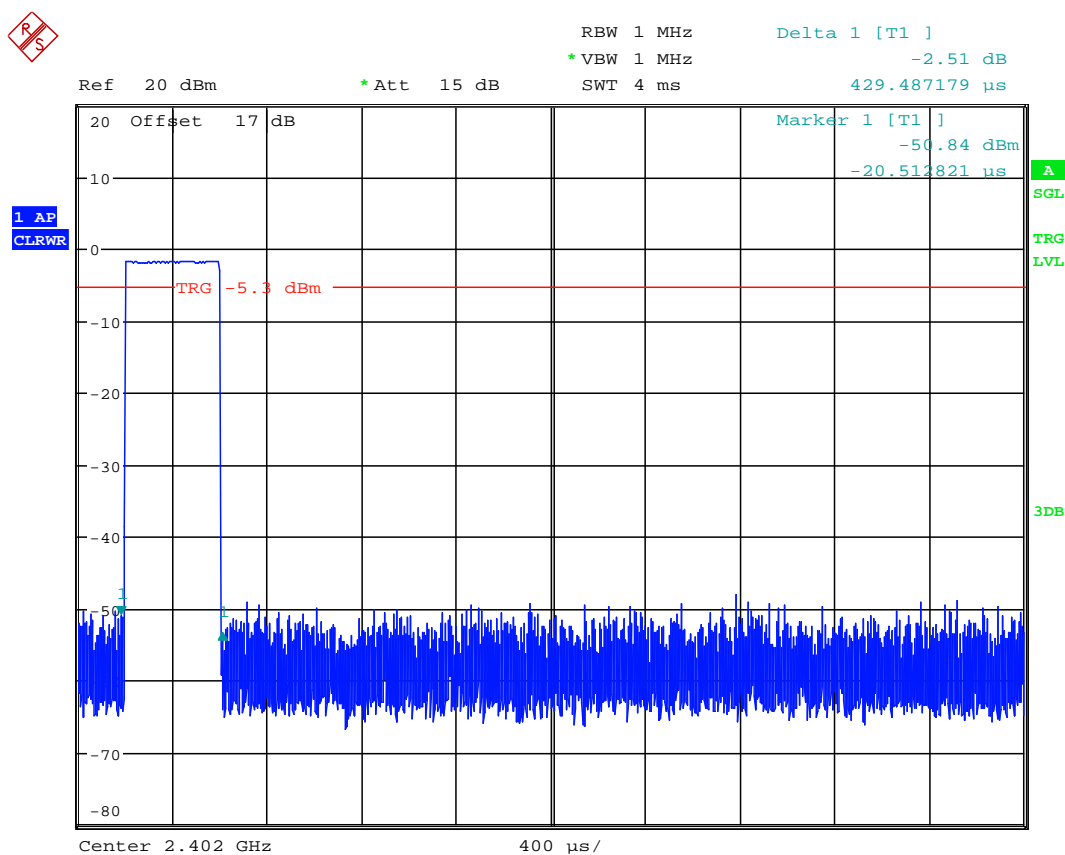
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001

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.

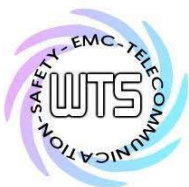
In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

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 be 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.



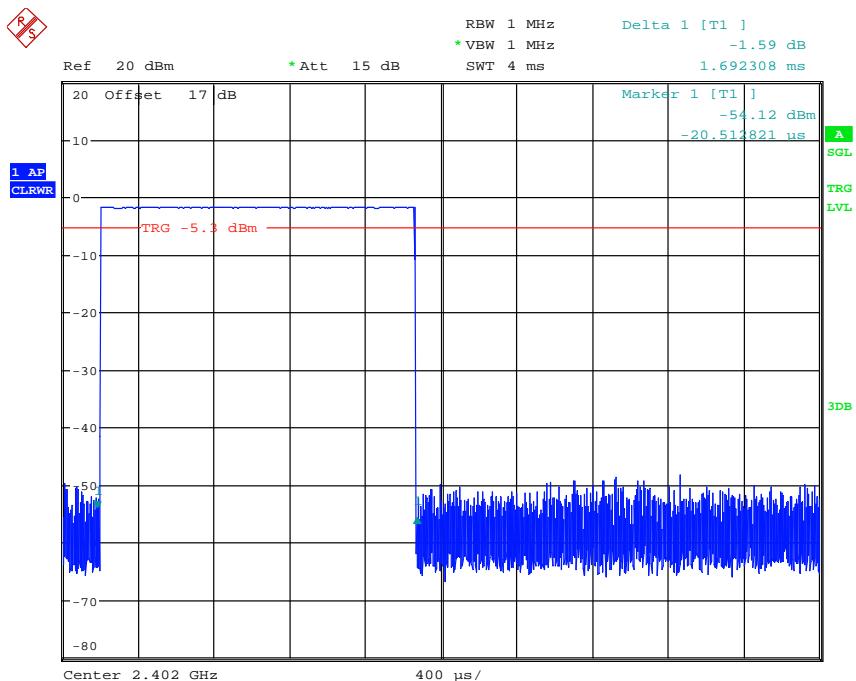
DWELL TIME CH0 DH1 (0.429ms * 320event =137.28ms)

Date: 7.JUN.2014 17:49:07

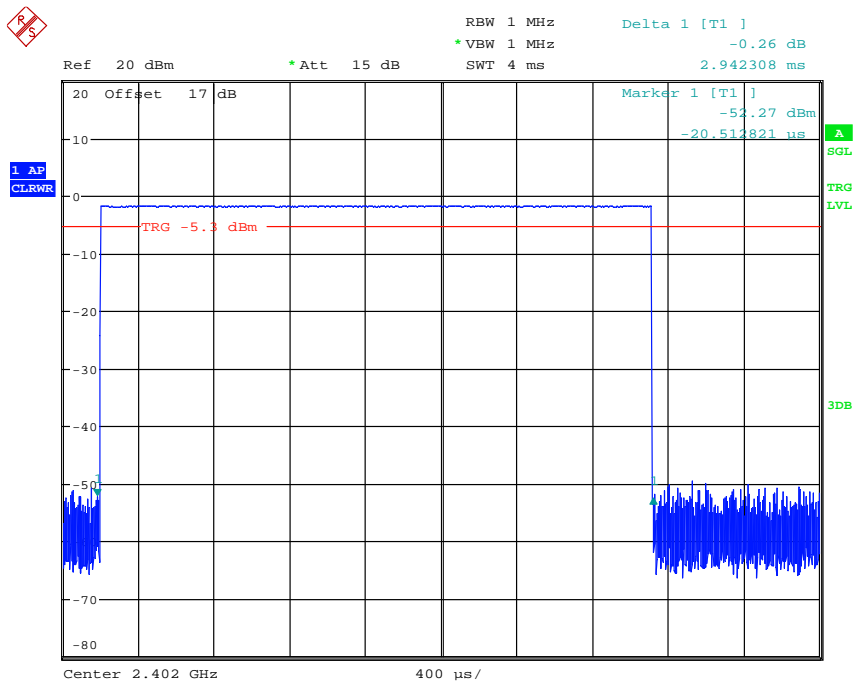


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DWELL TIME CH0 DH3 (1.69ms * 160event =270.4ms)
Date: 7.JUN.2014 17:51:53

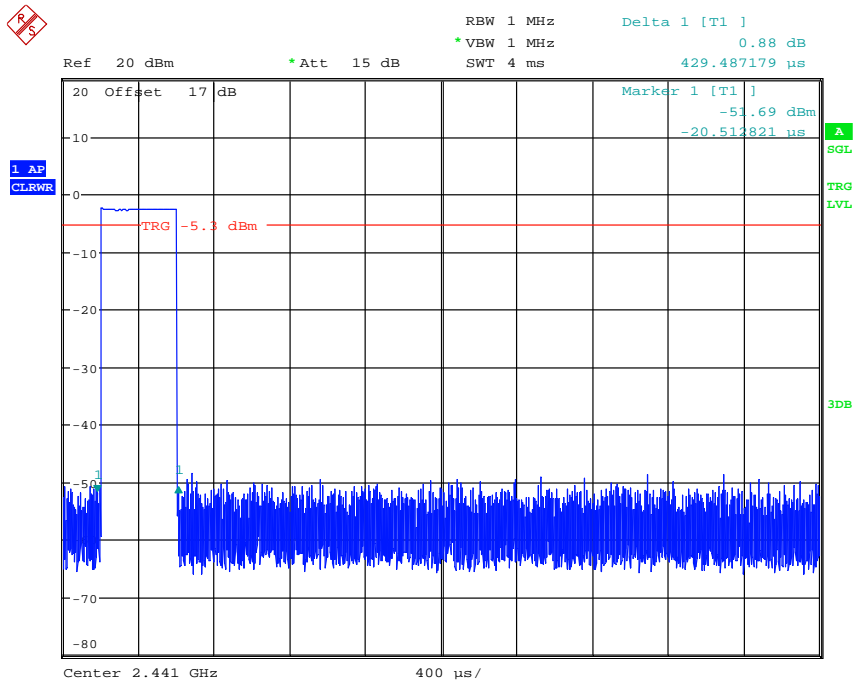


DWELL TIME CH0 DH5 (2.942ms * 106event =311.85ms)
Date: 7.JUN.2014 17:53:45

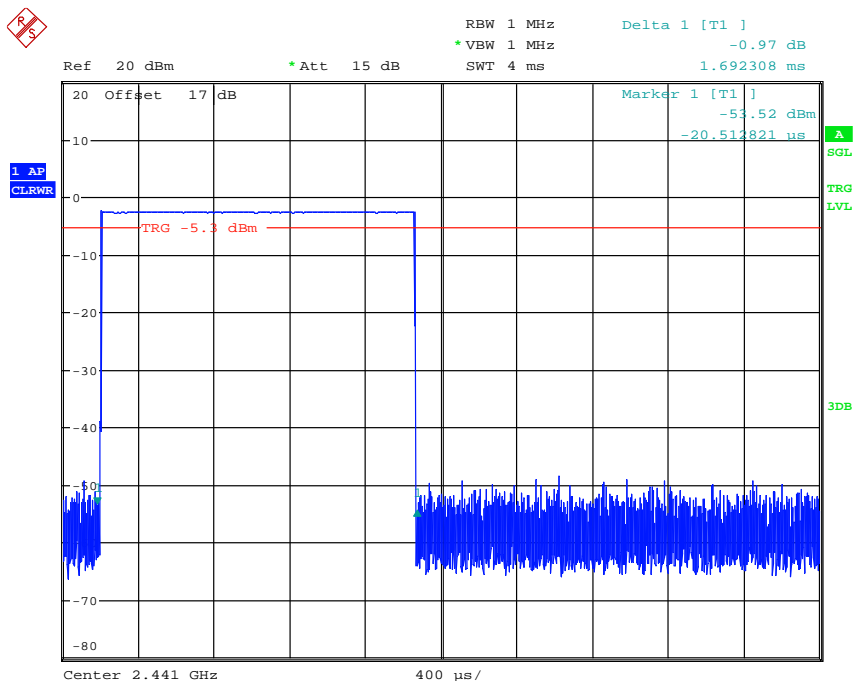


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FCC ID: 2ACIATBT001



DWELL TIME CH39 DH1 (0.429ms * 320event =137.28ms)
Date: 7.JUN.2014 17:49:53

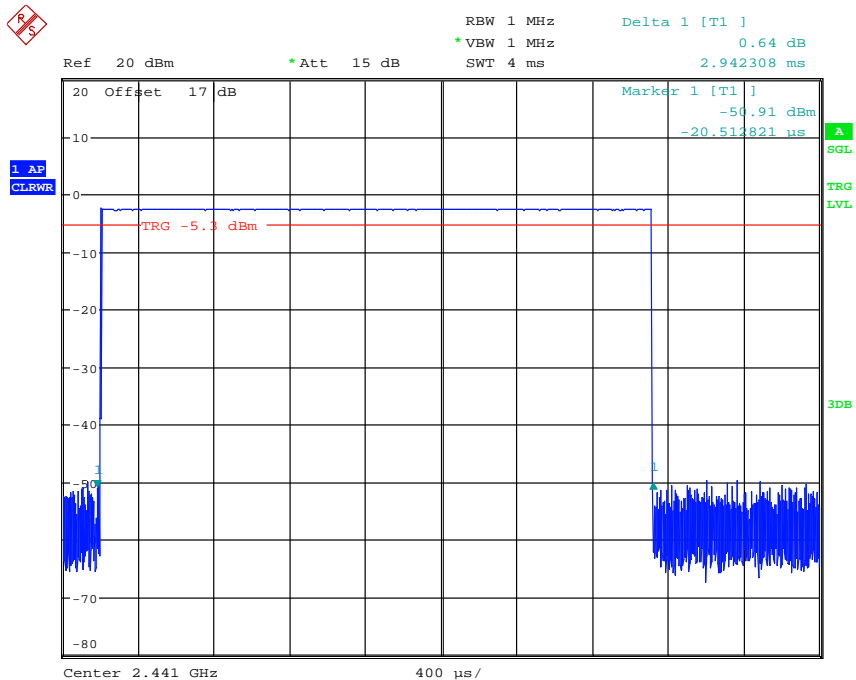


DWELL TIME CH39 DH3 (1.69ms * 160event =270.4ms)
Date: 7.JUN.2014 17:52:16

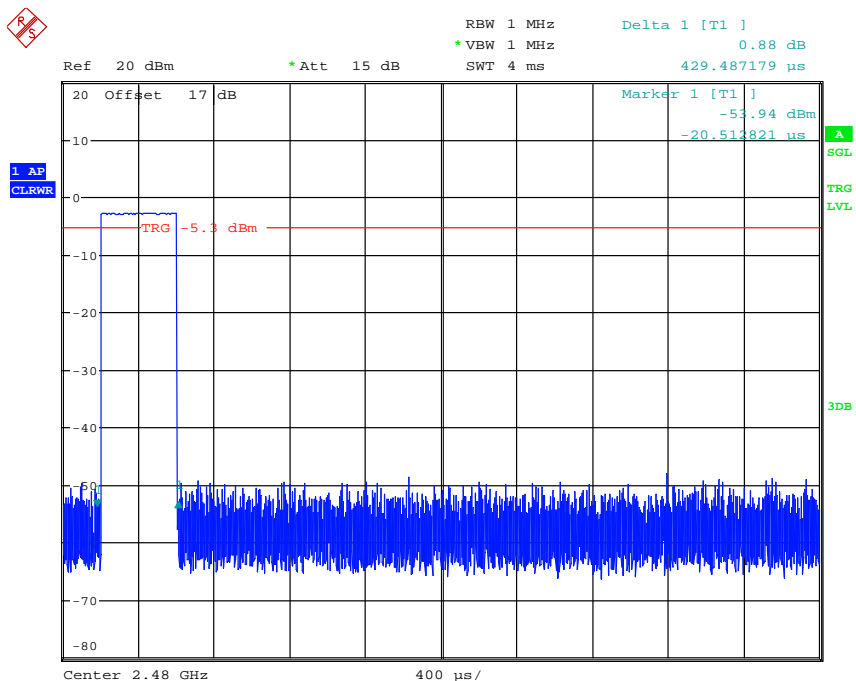


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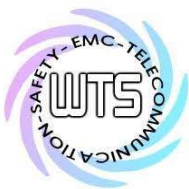
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001



DWELL TIME CH39 DH5 (2.942ms * 106event =311.85ms)
Date: 7.JUN.2014 17:54:27

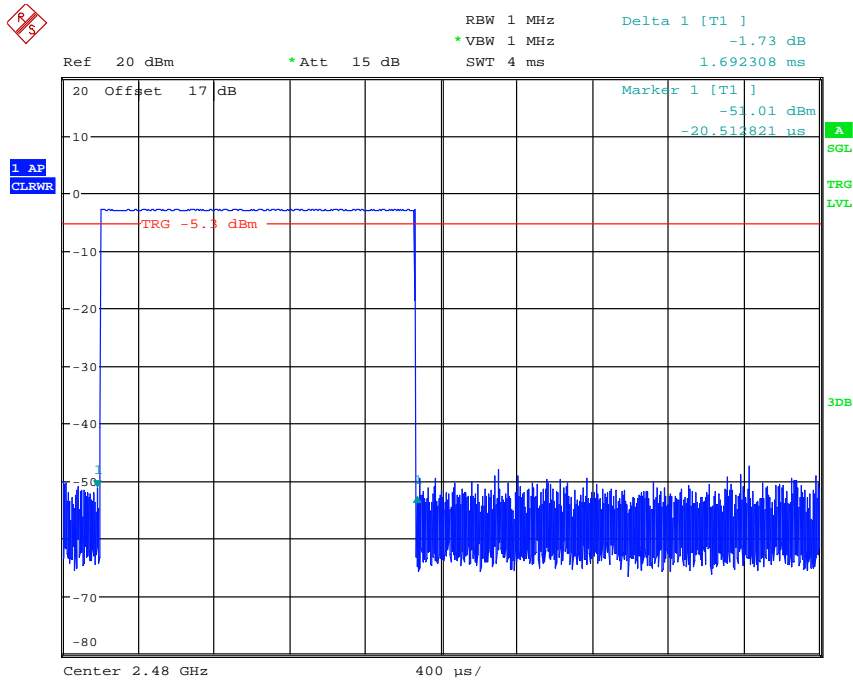


DWELL TIME CH78 DH1 (0.429ms * 320event =137.28ms)
Date: 7.JUN.2014 17:50:28

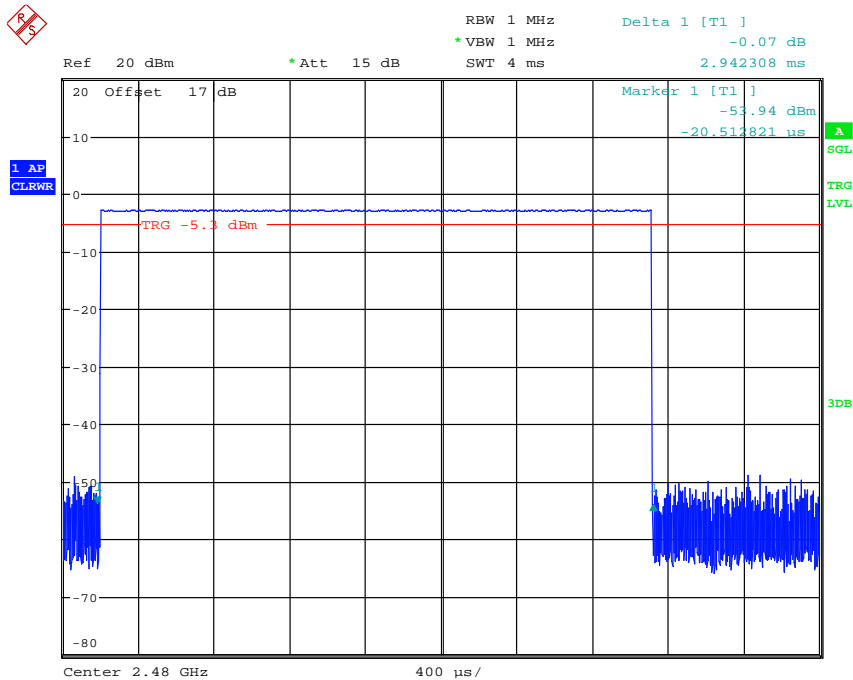


Worldwide Testing Services(Taiwan) Co., Ltd.

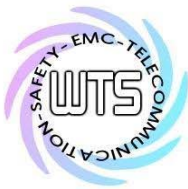
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001



DWELL TIME CH78 DH3 (1.69ms * 160event =270.4ms)
Date: 7.JUN.2014 17:52:39



DWELL TIME CH78 DH5 (2.942ms * 106event =311.85ms)
Date: 7.JUN.2014 17:54:51



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

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: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001

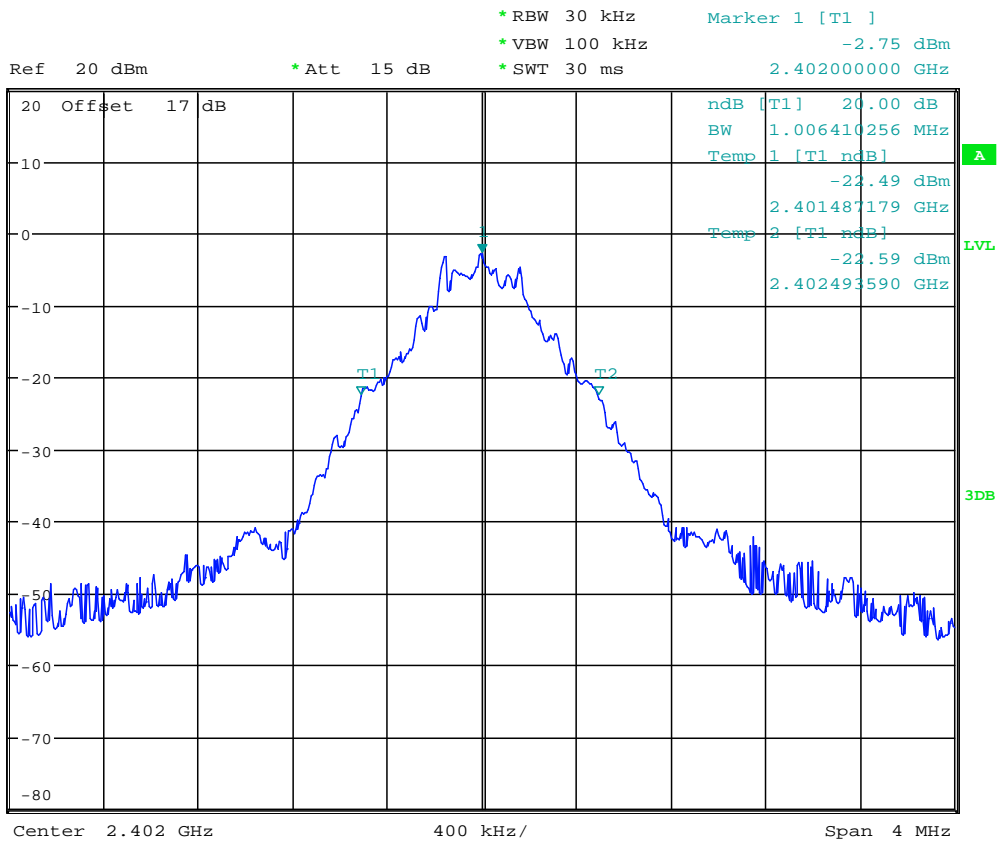
3.9 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

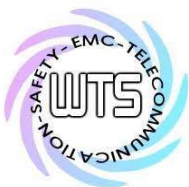
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Normal mode



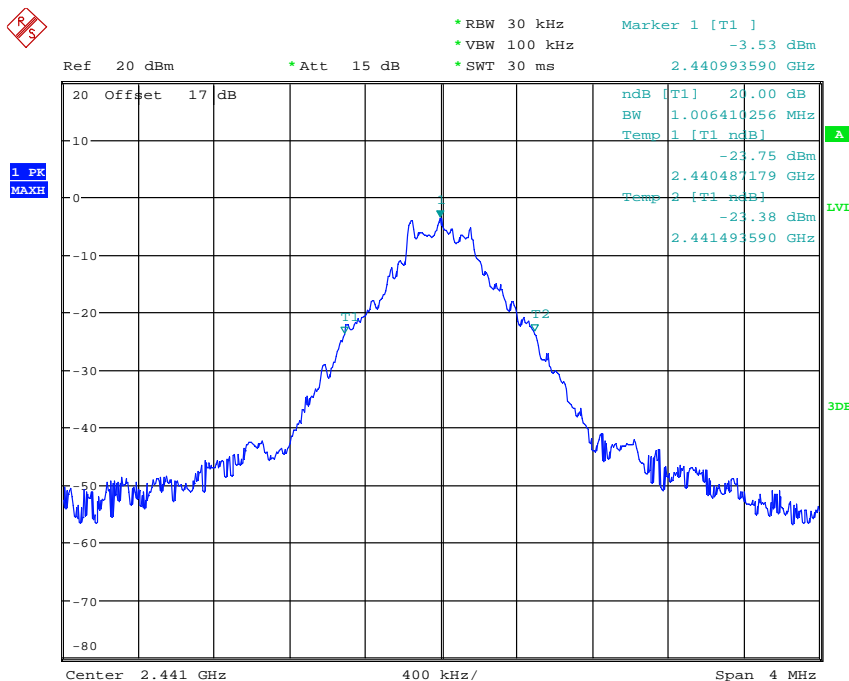
20DB BANDWIDTH CHO

Date: 7.JUN.2014 17:25:00

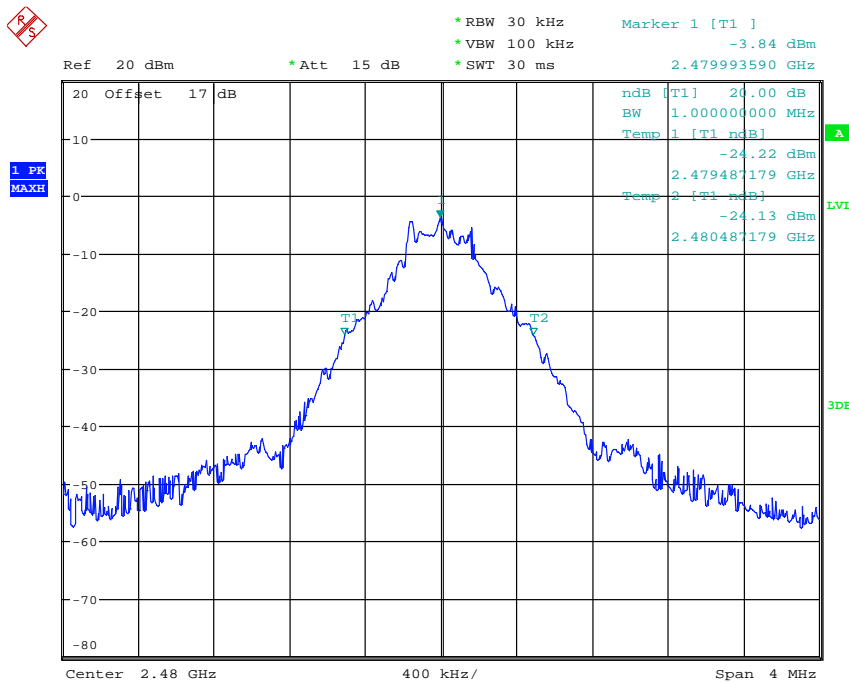


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001



20DB BANDWIDTH CH39
 Date: 7.JUN.2014 17:26:04



20DB BANDWIDTH CH78
 Date: 7.JUN.2014 17:26:37

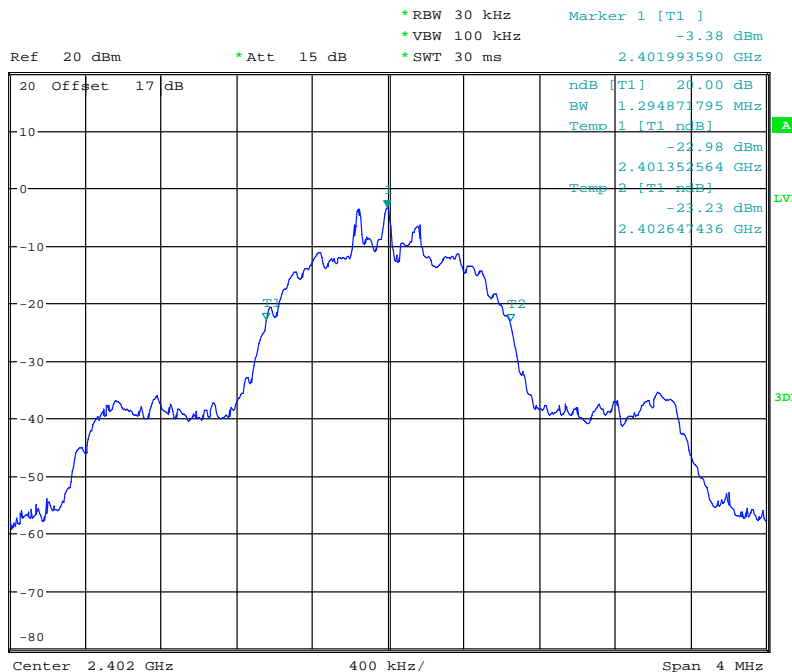


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

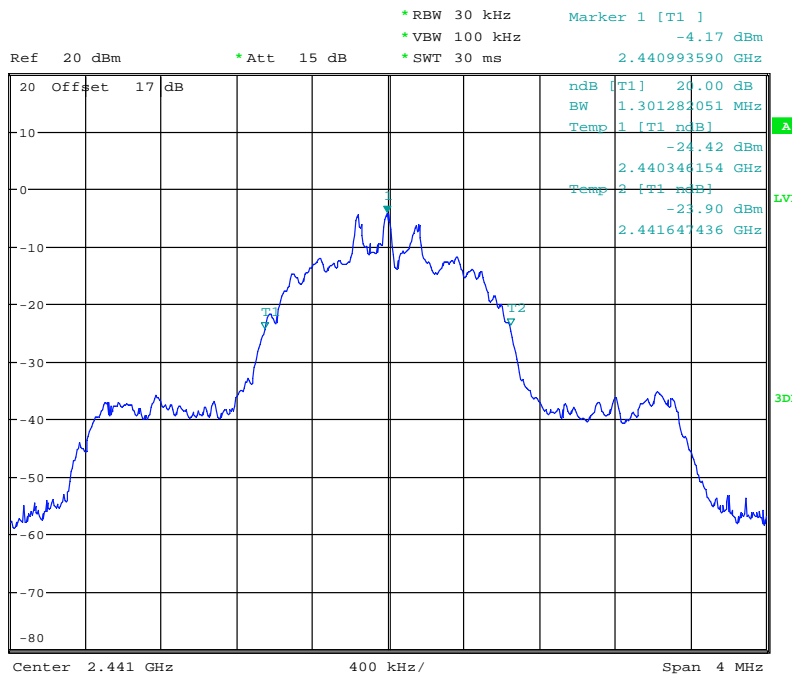
FCC ID: 2ACIATBT001

EDR mode



20DB BANDWIDTH CH0 EDR MODE

Date: 7.JUN.2014 17:32:37

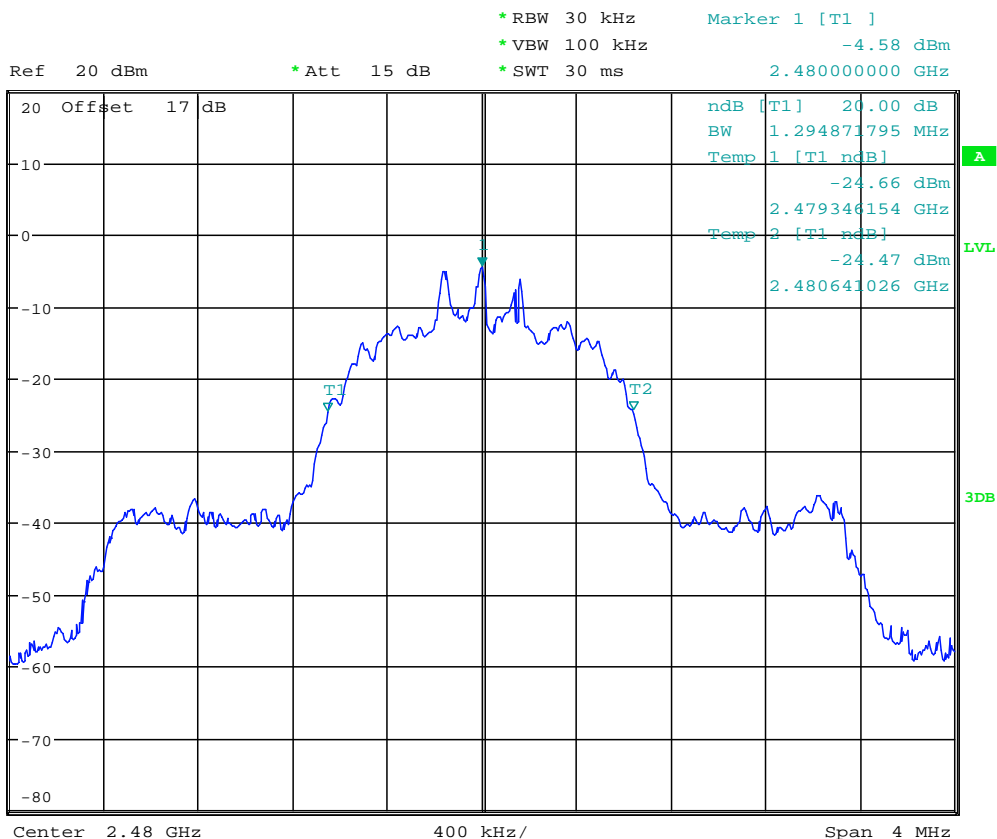


20DB BANDWIDTH CH39 EDR MODE

Date: 7.JUN.2014 17:33:41



Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001



20DB BANDWIDTH CH78 EDR MODE

Date: 7.JUN.2014 17:34:17

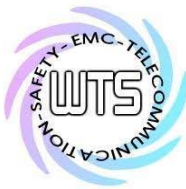
Limits:

| 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.



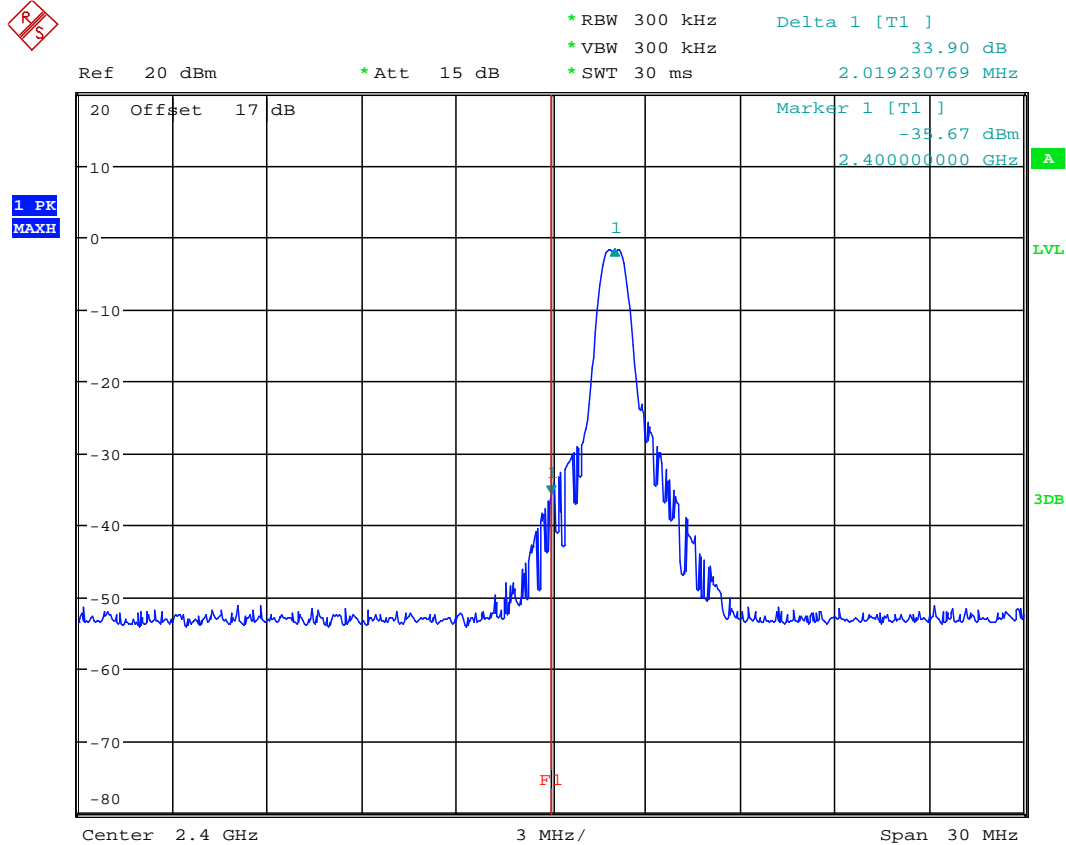
Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001

3.10 Band-edge Compliance of RF Emissions

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

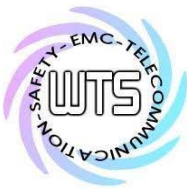
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Normal mode



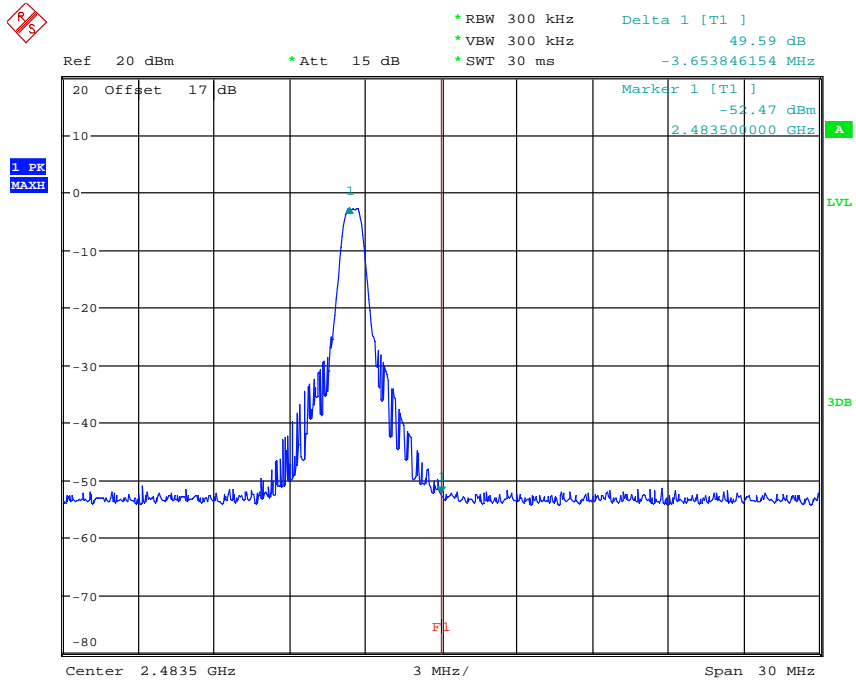
BANDEDGE CH0

Date: 7.JUN.2014 17:25:12



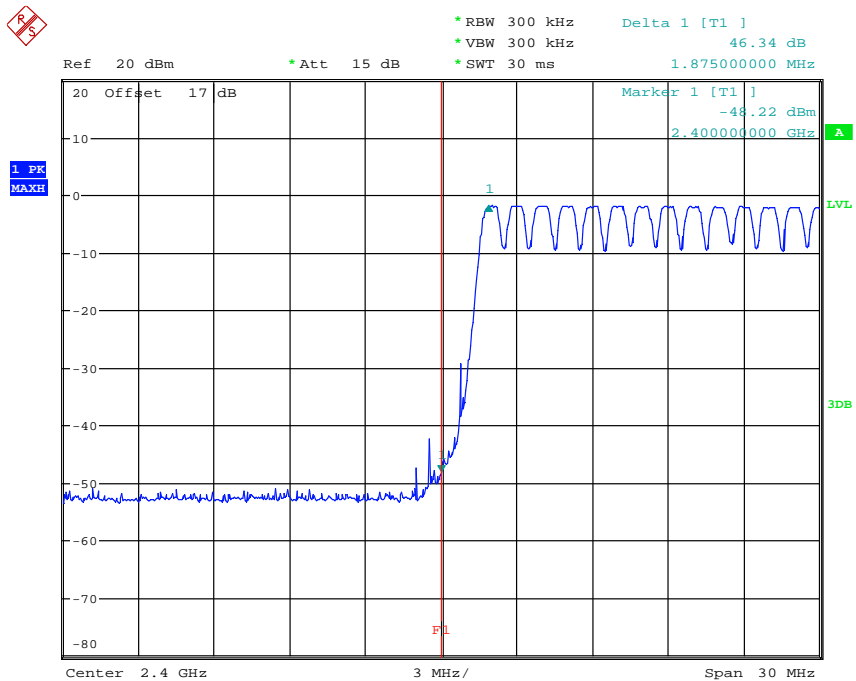
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATBT001



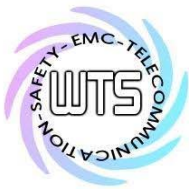
BANDEDGE CH78

Date: 7.JUN.2014 17:26:45



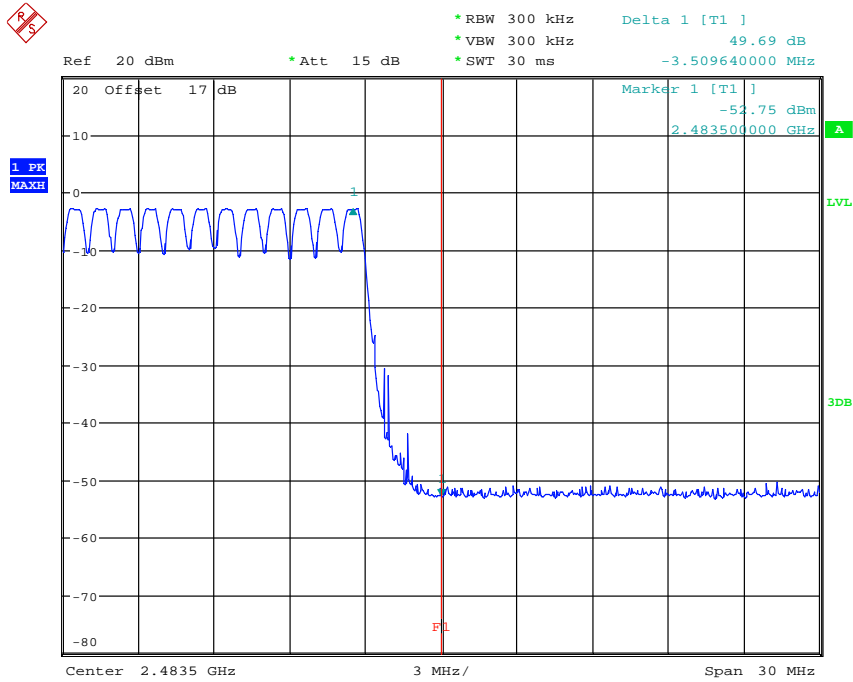
BANDEDGE CH0 HOPPING MODE

Date: 7.JUN.2014 17:27:37



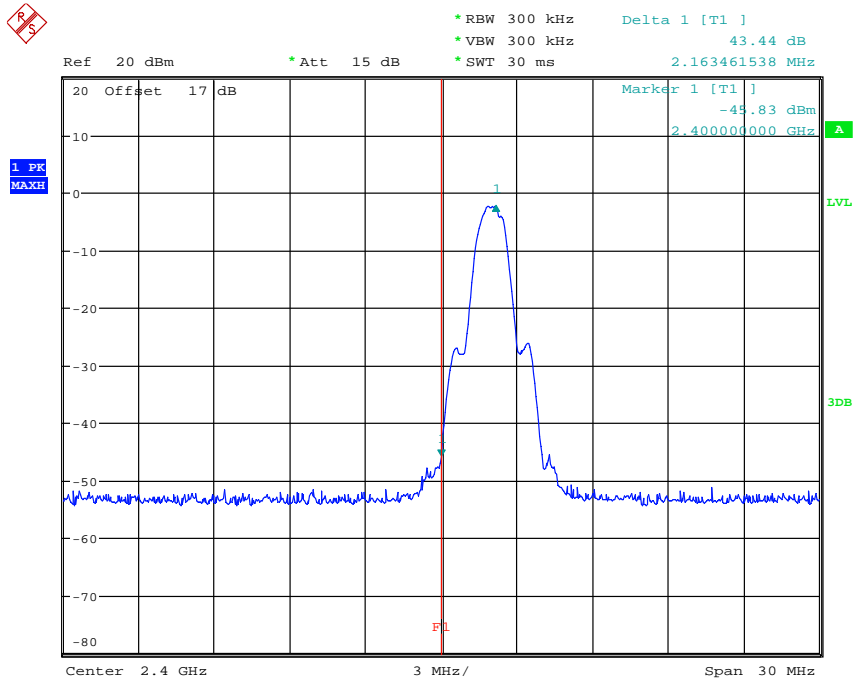
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001



BANDEDGE CH78 HOPPING MODE
Date: 7.JUN.2014 17:28:17

EDR mode

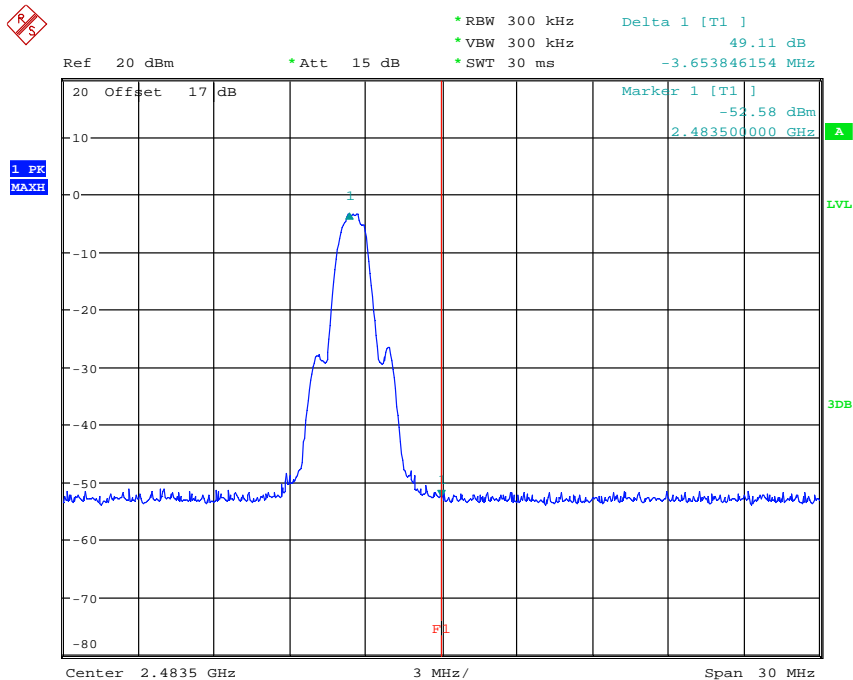


BANDEDGE CH0 EDR MODE
Date: 7.JUN.2014 17:32:45

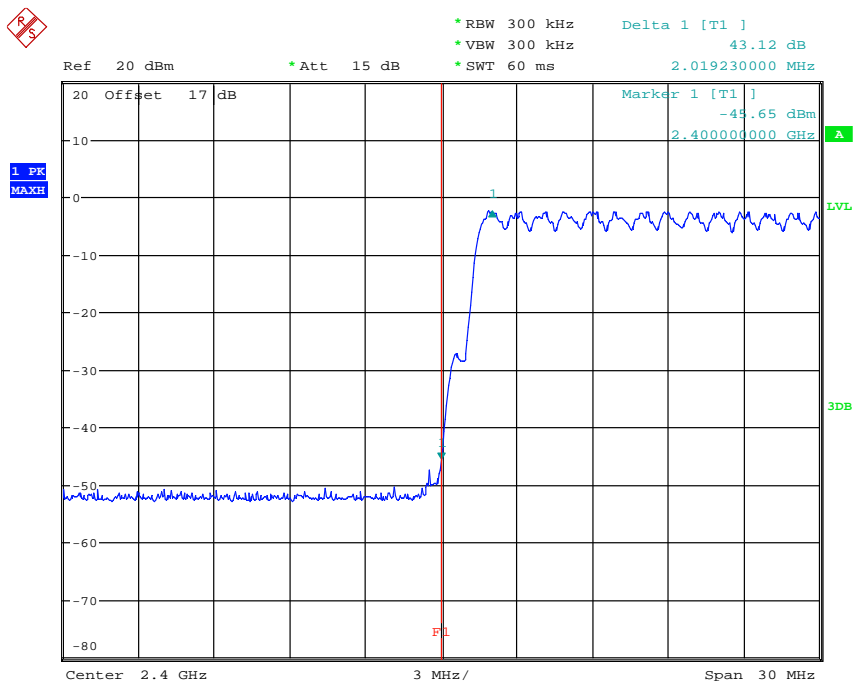


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001



BANDEDGE CH78 EDR MODE
Date: 7.JUN.2014 17:34:29

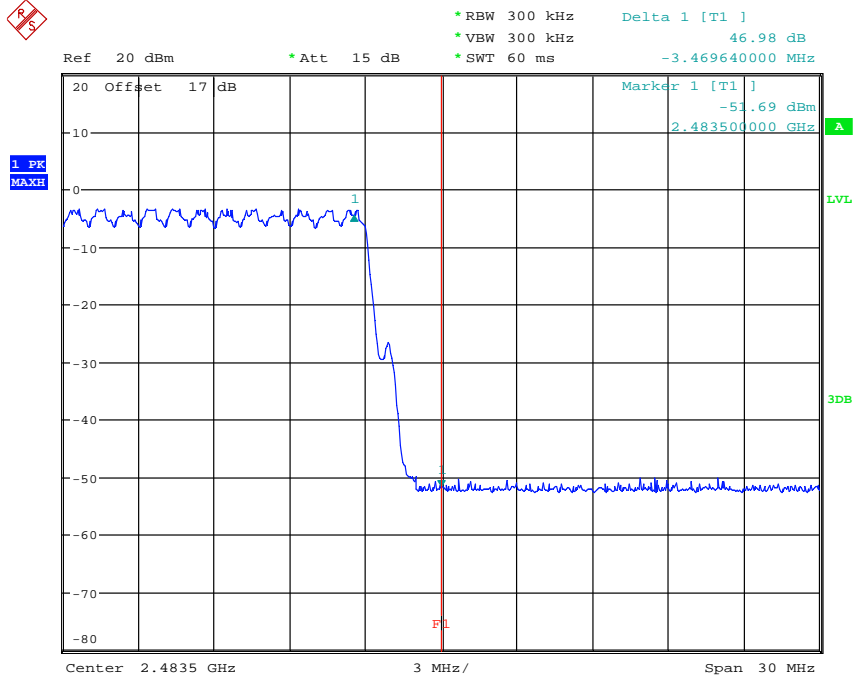


BANDEDGE CH0 EDR HOPPING MODE
Date: 7.JUN.2014 17:36:33



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001

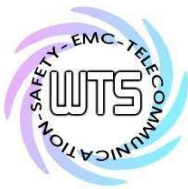


BANDEDGE CH78 EDR HOPPING MODE
 Date: 7.JUN.2014 17:38:17

Limits:

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

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



Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

3.11 Radiated Emissions from Digital Part

FCC Rule: 15.109

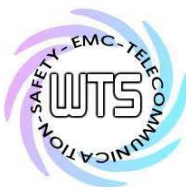
Summary table with radiated data of the test plots

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

Explanation: The test results are listed in the separated test report no.: W6M21405-14172-P-15B.

Test equipment used: ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030
ETSTW-RE 111

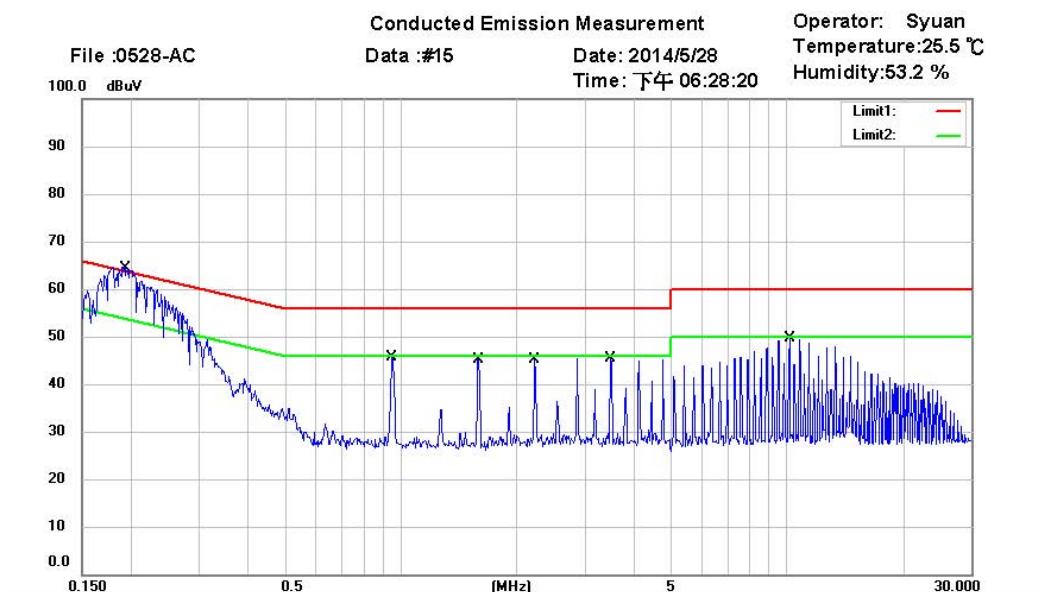


Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATTBT001

3.12 Power Line Conducted Emission

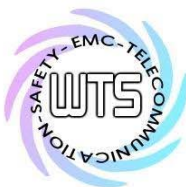
For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: N
 EUT : W6M21405-14172 Power : 120 V.a.c.
 M/N : A-1328WPBT
 Test Mode : BT
 Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1951 | 50.28 | QP | 9.67 | 59.95 | 63.82 | -3.87 | |
| | 0.1951 | 36.73 | AVG | 9.67 | 46.40 | 53.82 | -7.42 | |
| | 0.9523 | 34.82 | QP | 9.70 | 44.52 | 56.00 | -11.48 | |
| * | 0.9523 | 34.33 | AVG | 9.70 | 44.03 | 46.00 | -1.97 | |
| | 1.5855 | 34.21 | QP | 9.73 | 43.94 | 56.00 | -12.06 | |
| | 1.5855 | 33.30 | AVG | 9.73 | 43.03 | 46.00 | -2.97 | |
| | 2.2210 | 34.21 | QP | 9.76 | 43.97 | 56.00 | -12.03 | |
| | 2.2210 | 32.33 | AVG | 9.76 | 42.09 | 46.00 | -3.91 | |
| | 3.4890 | 33.84 | QP | 9.80 | 43.64 | 56.00 | -12.36 | |
| | 3.4890 | 29.28 | AVG | 9.80 | 39.08 | 46.00 | -6.92 | |
| | 10.1480 | 38.65 | QP | 10.03 | 48.68 | 60.00 | -11.32 | |
| | 10.1480 | 35.08 | AVG | 10.03 | 45.11 | 50.00 | -4.89 | |

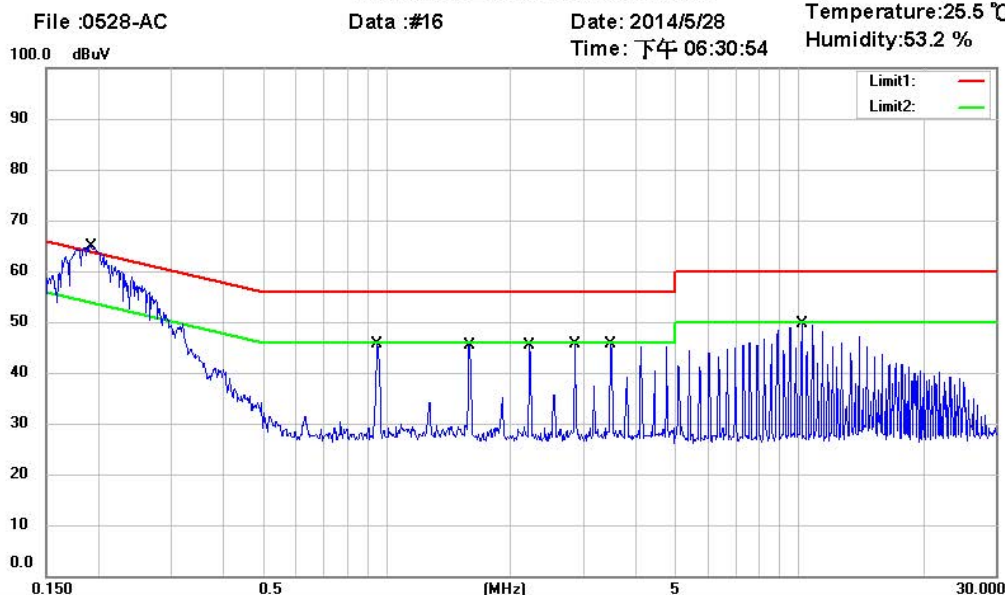


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATTBT001

Conducted Emission Measurement
 Data :#16
 Date: 2014/5/28
 Time: 下午 06:30:54

Operator: Syuan
 Temperature:25.5 °C
 Humidity:53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21405-14172

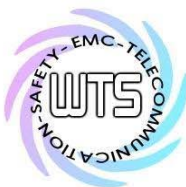
Power : 120 V.a.c.

M/N: A-1328WPBT

Test Mode : BT

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1940 | 50.40 | QP | 9.66 | 60.06 | 63.86 | -3.80 | |
| | 0.1940 | 36.73 | AVG | 9.66 | 46.39 | 53.86 | -7.47 | |
| | 0.9525 | 34.76 | QP | 9.70 | 44.46 | 56.00 | -11.54 | |
| * | 0.9525 | 34.23 | AVG | 9.70 | 43.93 | 46.00 | -2.07 | |
| | 1.5876 | 33.93 | QP | 9.73 | 43.66 | 56.00 | -12.34 | |
| | 1.5876 | 32.93 | AVG | 9.73 | 42.66 | 46.00 | -3.34 | |
| | 2.2210 | 34.23 | QP | 9.76 | 43.99 | 56.00 | -12.01 | |
| | 2.2210 | 32.39 | AVG | 9.76 | 42.15 | 46.00 | -3.85 | |
| | 2.8550 | 34.14 | QP | 9.78 | 43.92 | 56.00 | -12.08 | |
| | 2.8550 | 31.25 | AVG | 9.78 | 41.03 | 46.00 | -4.97 | |
| | 3.4905 | 33.68 | QP | 9.79 | 43.47 | 56.00 | -12.53 | |
| | 3.4905 | 29.02 | AVG | 9.79 | 38.81 | 46.00 | -7.19 | |
| | 10.1510 | 38.57 | QP | 9.99 | 48.56 | 60.00 | -11.44 | |
| | 10.1510 | 34.21 | AVG | 9.99 | 44.20 | 50.00 | -5.80 | |

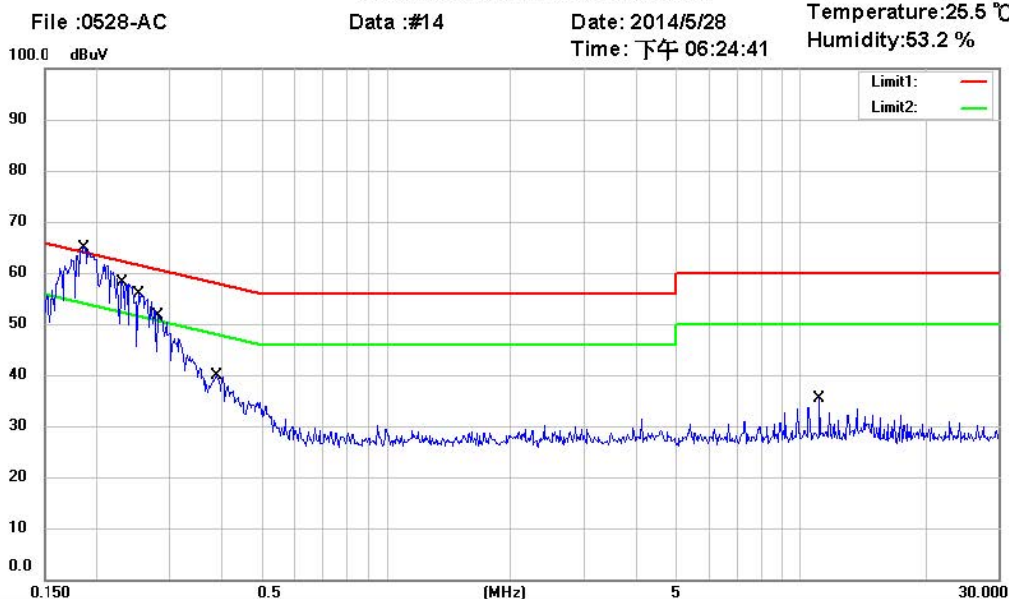


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATTBT001

Conducted Emission Measurement
 Data :#14
 Date: 2014/5/28
 Time: 下午 06:24:41

Operator: Syuan
 Temperature:25.5 °C
 Humidity:53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21405-14172

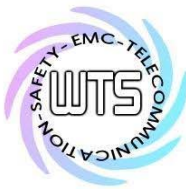
Power : 120 Va.c.

M/N: A-1328WPBT

Test Mode : Line in

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| * | 0.1888 | 50.34 | QP | 9.67 | 60.01 | 64.09 | -4.08 | |
| | 0.1888 | 34.62 | AVG | 9.67 | 44.29 | 54.09 | -9.80 | |
| | 0.2331 | 43.00 | QP | 9.67 | 52.67 | 62.34 | -9.67 | |
| | 0.2331 | 28.73 | AVG | 9.67 | 38.40 | 52.34 | -13.94 | |
| | 0.2546 | 40.06 | QP | 9.67 | 49.73 | 61.61 | -11.88 | |
| | 0.2546 | 25.79 | AVG | 9.67 | 35.46 | 51.61 | -16.15 | |
| | 0.2840 | 35.90 | QP | 9.67 | 45.57 | 60.70 | -15.13 | |
| | 0.2840 | 23.49 | AVG | 9.67 | 33.16 | 50.70 | -17.54 | |
| | 0.3870 | 23.90 | QP | 9.68 | 33.58 | 58.13 | -24.55 | |
| | 0.3870 | 13.00 | AVG | 9.68 | 22.68 | 48.13 | -25.45 | |
| | 11.0975 | 22.96 | QP | 10.05 | 33.01 | 60.00 | -26.99 | |
| | 11.0975 | 18.92 | AVG | 10.05 | 28.97 | 50.00 | -21.03 | |

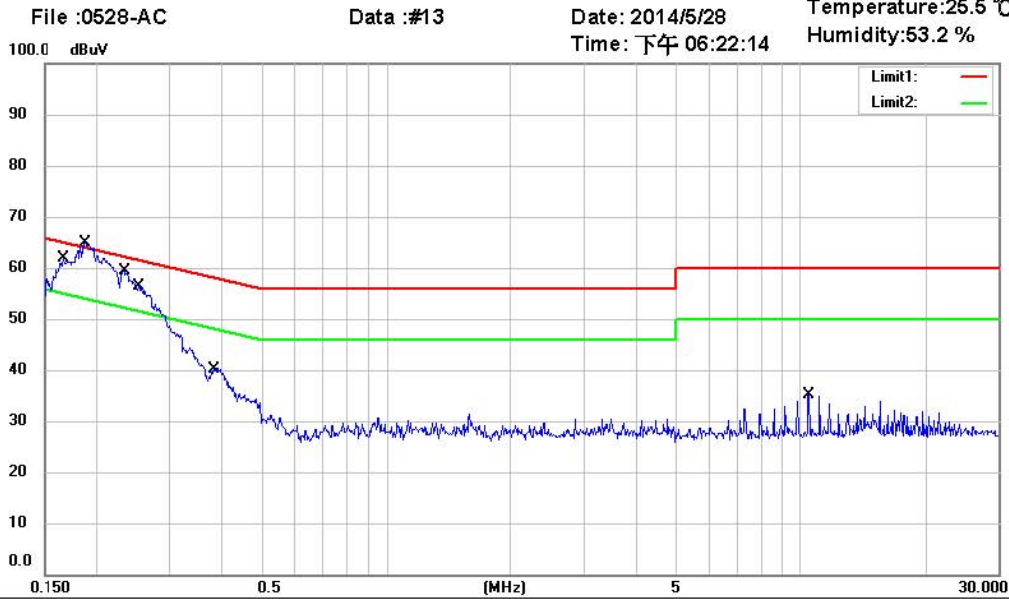


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001

Conducted Emission Measurement
 Data :#13
 Date: 2014/5/28
 Time: 下午 06:22:14

Operator: Syuan
 Temperature: 25.5 °C
 Humidity: 53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: **L1**

EUT : W6M21405-14172

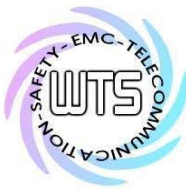
Power : 120 Va.c.

M/N: A-1328WPBT

Test Mode : Line in

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1680 | 45.67 | QP | 9.66 | 55.33 | 65.06 | -9.73 | |
| | 0.1680 | 31.49 | AVG | 9.66 | 41.15 | 55.06 | -13.91 | |
| * | 0.1901 | 50.22 | QP | 9.66 | 59.88 | 64.03 | -4.15 | |
| | 0.1901 | 34.83 | AVG | 9.66 | 44.49 | 54.03 | -9.54 | |
| | 0.2366 | 42.68 | QP | 9.66 | 52.34 | 62.21 | -9.87 | |
| | 0.2366 | 29.16 | AVG | 9.66 | 38.82 | 52.21 | -13.39 | |
| | 0.2561 | 39.90 | QP | 9.66 | 49.56 | 61.56 | -12.00 | |
| | 0.2561 | 26.04 | AVG | 9.66 | 35.70 | 51.56 | -15.86 | |
| | 0.3824 | 24.06 | QP | 9.67 | 33.73 | 58.23 | -24.50 | |
| | 0.3824 | 13.00 | AVG | 9.67 | 22.67 | 48.23 | -25.56 | |
| | 10.4657 | 23.23 | QP | 9.99 | 33.22 | 60.00 | -26.78 | |
| | 10.4657 | 19.56 | AVG | 9.99 | 29.55 | 50.00 | -20.45 | |

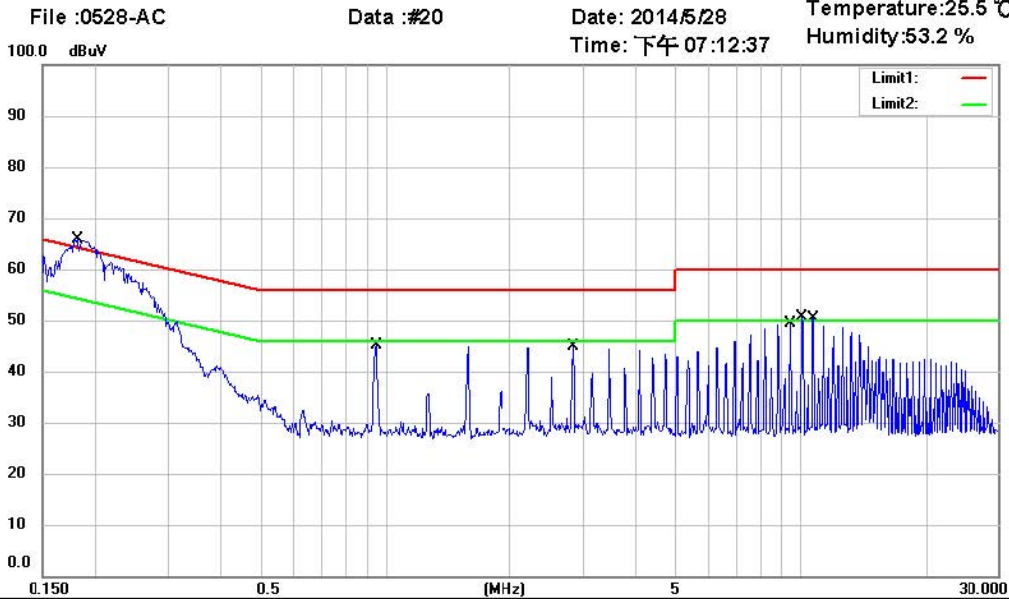


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001

Conducted Emission Measurement

Operator: Syuan
 Temperature: 25.5 °C
 Humidity: 53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21405-14172

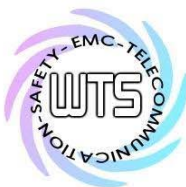
Power : 120 V.a.c.

M/N: A-1351

Test Mode : BT

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1808 | 49.90 | QP | 9.67 | 59.57 | 64.45 | -4.88 | |
| | 0.1808 | 35.56 | AVG | 9.67 | 45.23 | 54.45 | -9.22 | |
| | 0.9454 | 33.81 | QP | 9.70 | 43.51 | 56.00 | -12.49 | |
| * | 0.9454 | 33.21 | AVG | 9.70 | 42.91 | 46.00 | -3.09 | |
| | 2.8310 | 33.40 | QP | 9.77 | 43.17 | 56.00 | -12.83 | |
| | 2.8310 | 30.34 | AVG | 9.77 | 40.11 | 46.00 | -5.89 | |
| | 9.4374 | 37.03 | QP | 10.01 | 47.04 | 60.00 | -12.96 | |
| | 9.4374 | 32.92 | AVG | 10.01 | 42.93 | 50.00 | -7.07 | |
| | 10.0624 | 39.25 | QP | 10.03 | 49.28 | 60.00 | -10.72 | |
| | 10.0624 | 35.33 | AVG | 10.03 | 45.36 | 50.00 | -4.64 | |
| | 10.6874 | 37.40 | QP | 10.04 | 47.44 | 60.00 | -12.56 | |
| | 10.6874 | 32.25 | AVG | 10.04 | 42.29 | 50.00 | -7.71 | |

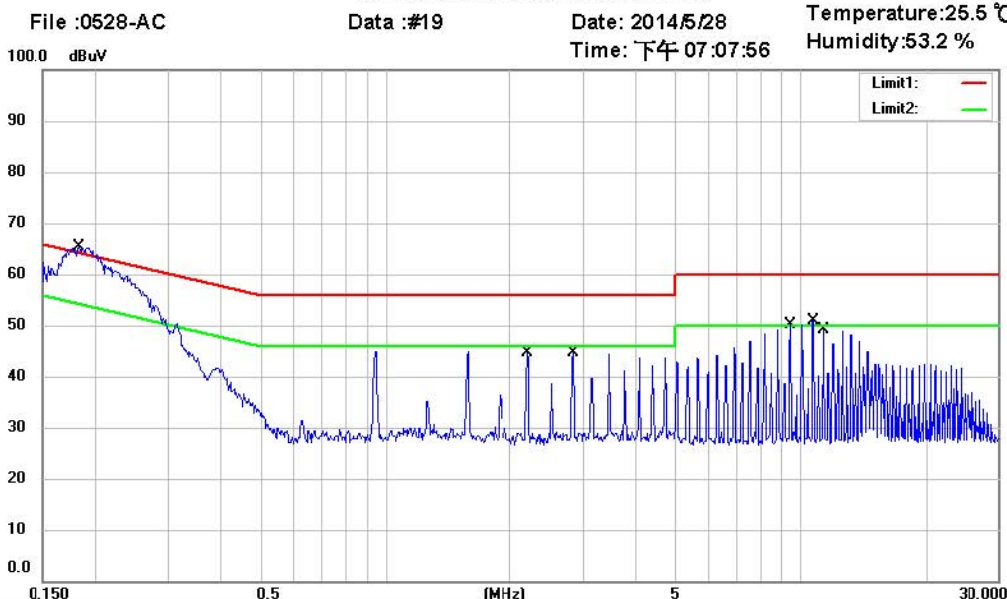


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001

Conducted Emission Measurement
 Data :#19
 Date: 2014/5/28
 Time: 下午 07:07:56

Operator: Syuan
 Temperature:25.5 °C
 Humidity:53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21405-14172

Power : 120 V.a.c.

M/N: A-1351

Test Mode : BT

Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1831 | 49.70 | QP | 9.66 | 59.36 | 64.34 | -4.98 | |
| | 0.1831 | 35.64 | AVG | 9.66 | 45.30 | 54.34 | -9.04 | |
| | 2.1988 | 33.48 | QP | 9.76 | 43.24 | 56.00 | -12.76 | |
| | 2.1988 | 31.92 | AVG | 9.76 | 41.68 | 46.00 | -4.32 | |
| | 2.8288 | 33.44 | QP | 9.77 | 43.21 | 56.00 | -12.79 | |
| | 2.8288 | 30.42 | AVG | 9.77 | 40.19 | 46.00 | -5.81 | |
| | 9.4250 | 39.34 | QP | 9.97 | 49.31 | 60.00 | -10.69 | |
| * | 9.4250 | 36.08 | AVG | 9.97 | 46.05 | 50.00 | -3.95 | |
| | 10.6875 | 34.95 | QP | 9.99 | 44.94 | 60.00 | -15.06 | |
| | 10.6875 | 29.60 | AVG | 9.99 | 39.59 | 50.00 | -10.41 | |
| | 11.3125 | 36.27 | QP | 10.00 | 46.27 | 60.00 | -13.73 | |
| | 11.3125 | 30.97 | AVG | 10.00 | 40.97 | 50.00 | -9.03 | |

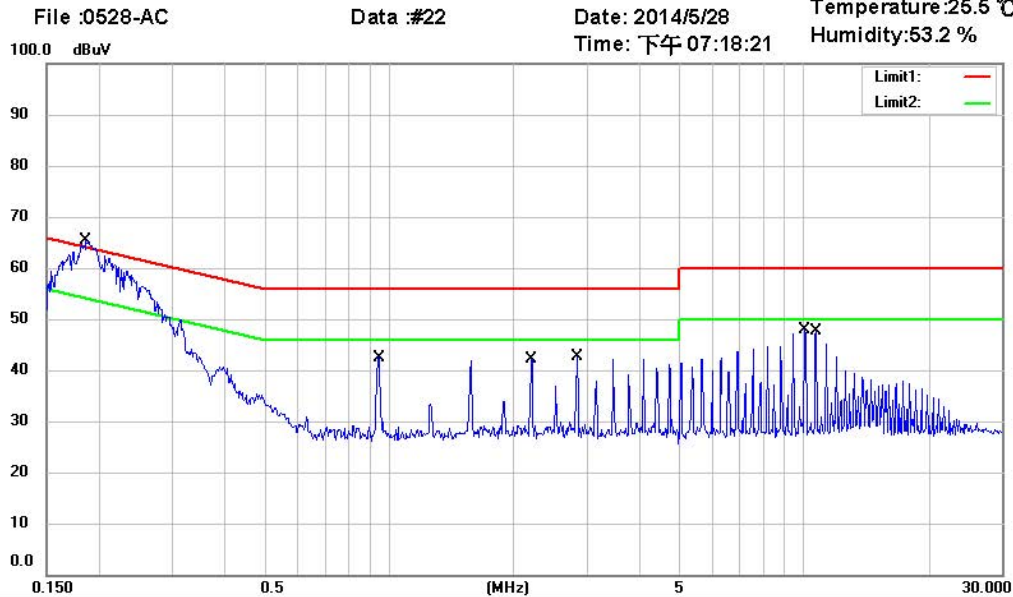


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATBT001

Conducted Emission Measurement

Operator: Syuan
 Temperature: 25.5 °C
 Humidity: 53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21405-14172

Power : 120 Va.c.

M/N: A-1351

Test Mode : Line in

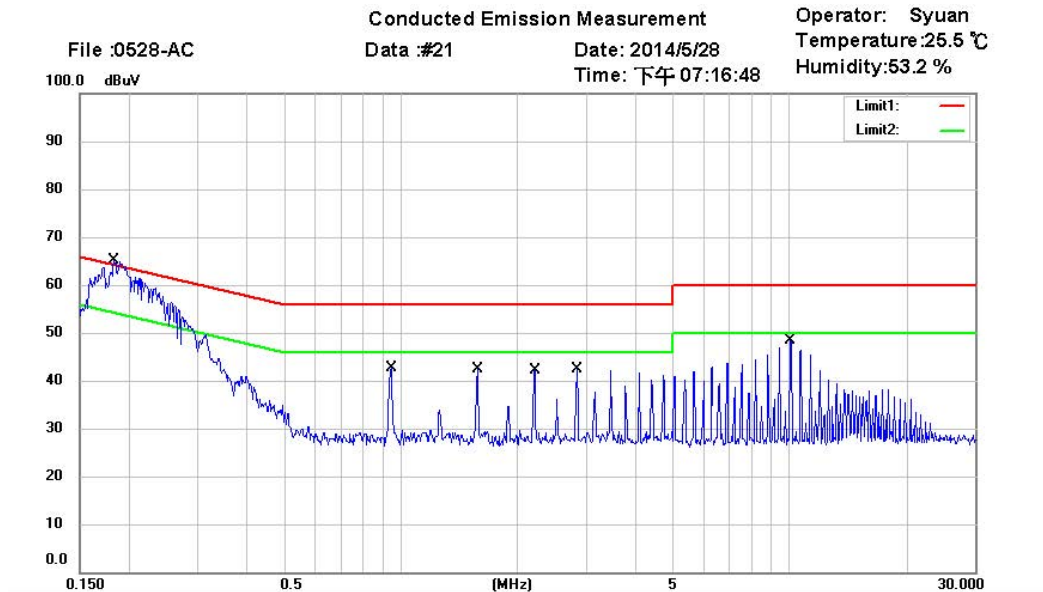
Note :

| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| * | 0.1860 | 50.08 | QP | 9.67 | 59.75 | 64.21 | -4.46 | |
| | 0.1860 | 34.04 | AVG | 9.67 | 43.71 | 54.21 | -10.50 | |
| | 0.9455 | 31.28 | QP | 9.70 | 40.98 | 56.00 | -15.02 | |
| | 0.9455 | 30.78 | AVG | 9.70 | 40.48 | 46.00 | -5.52 | |
| | 2.2010 | 31.17 | QP | 9.76 | 40.93 | 56.00 | -15.07 | |
| | 2.2010 | 30.47 | AVG | 9.76 | 40.23 | 46.00 | -5.77 | |
| | 2.8333 | 30.04 | QP | 9.77 | 39.81 | 56.00 | -16.19 | |
| | 2.8333 | 28.74 | AVG | 9.77 | 38.51 | 46.00 | -7.49 | |
| | 10.0625 | 36.66 | QP | 10.03 | 46.69 | 60.00 | -13.31 | |
| | 10.0625 | 32.93 | AVG | 10.03 | 42.96 | 50.00 | -7.04 | |
| | 10.7000 | 26.77 | QP | 10.04 | 36.81 | 60.00 | -23.19 | |
| | 10.7000 | 21.41 | AVG | 10.04 | 31.45 | 50.00 | -18.55 | |



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1
 FCC ID: 2ACIATTBT001



Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
 EUT : W6M21405-14172 Power : 120 Va.c.
 M/N: A-1351
 Test Mode : Line in
 Note :

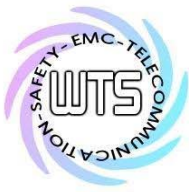
| Mk. | Frequency (MHz) | Reading (dBuV) | Detector | Corrected factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Comment |
|-----|-----------------|----------------|----------|----------------------|---------------|--------------|-------------|---------|
| | 0.1830 | 48.56 | QP | 9.66 | 58.22 | 64.35 | -6.13 | |
| | 0.1830 | 32.67 | AVG | 9.66 | 42.33 | 54.35 | -12.02 | |
| | 0.9455 | 31.18 | QP | 9.70 | 40.88 | 56.00 | -15.12 | |
| | 0.9455 | 30.71 | AVG | 9.70 | 40.41 | 46.00 | -5.59 | |
| | 1.5733 | 31.43 | QP | 9.73 | 41.16 | 56.00 | -14.84 | |
| * | 1.5733 | 30.83 | AVG | 9.73 | 40.56 | 46.00 | -5.44 | |
| | 2.2033 | 30.97 | QP | 9.76 | 40.73 | 56.00 | -15.27 | |
| | 2.2033 | 30.17 | AVG | 9.76 | 39.93 | 46.00 | -6.07 | |
| | 2.8310 | 31.33 | QP | 9.77 | 41.10 | 56.00 | -14.90 | |
| | 2.8310 | 30.19 | AVG | 9.77 | 39.96 | 46.00 | -6.04 | |
| | 10.0625 | 37.41 | QP | 9.99 | 47.40 | 60.00 | -12.60 | |
| | 10.0625 | 33.35 | AVG | 9.99 | 43.34 | 50.00 | -6.66 | |

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 |

- Note:**
- The formula of measured value as: Test Result = Reading + Correction Factor
 - The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
 - Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 - All not in the table noted test results are more than 20 dB below the relevant limits.
 - Measurement uncertainty = ±1.41 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
 - Up Line: QP Limit Line, Down Line: Ave Limit Line.

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-CE 006, ETSTW-RE 064

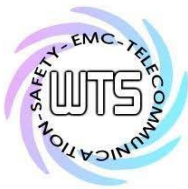


Registration number: W6M21405-14172-C-1
FCC ID: 2ACIATTBT001

Appendix

Measurement diagrams

Spurious Emissions radiated



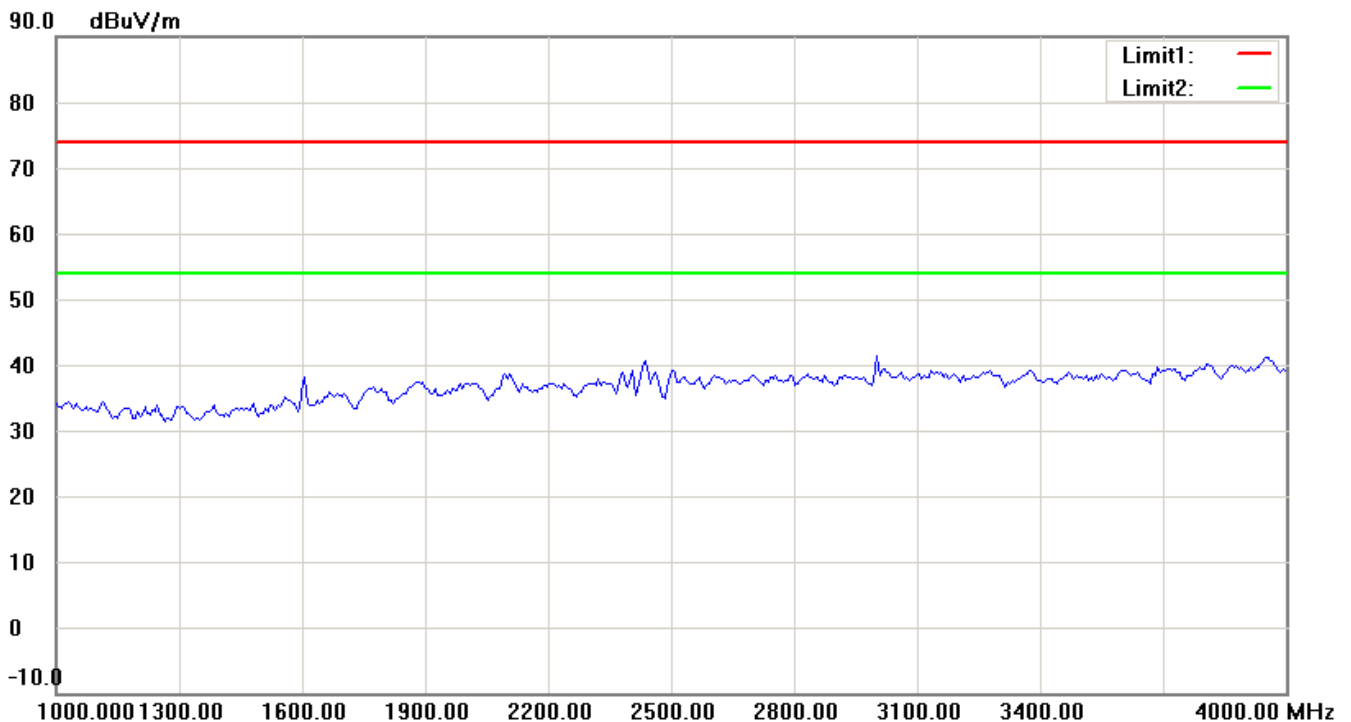
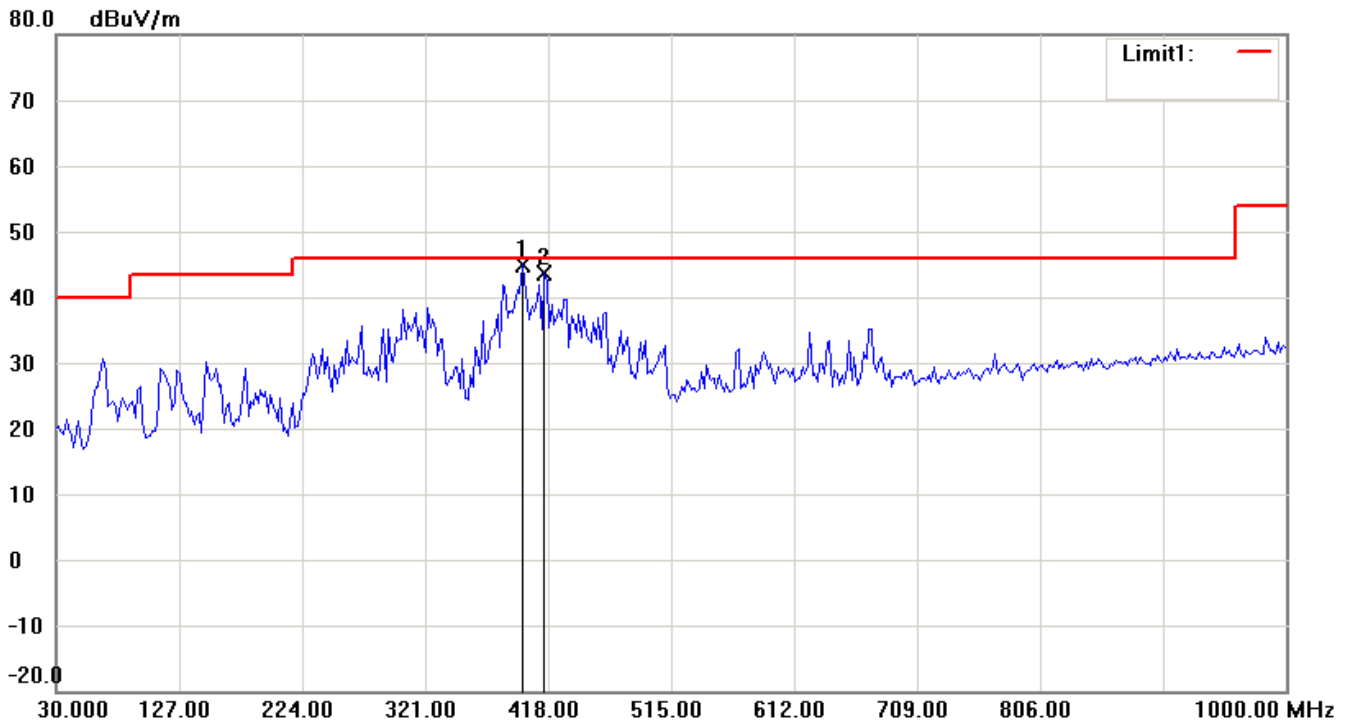
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

Spurious Emissions radiated_TX

TX_2402 MHz

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

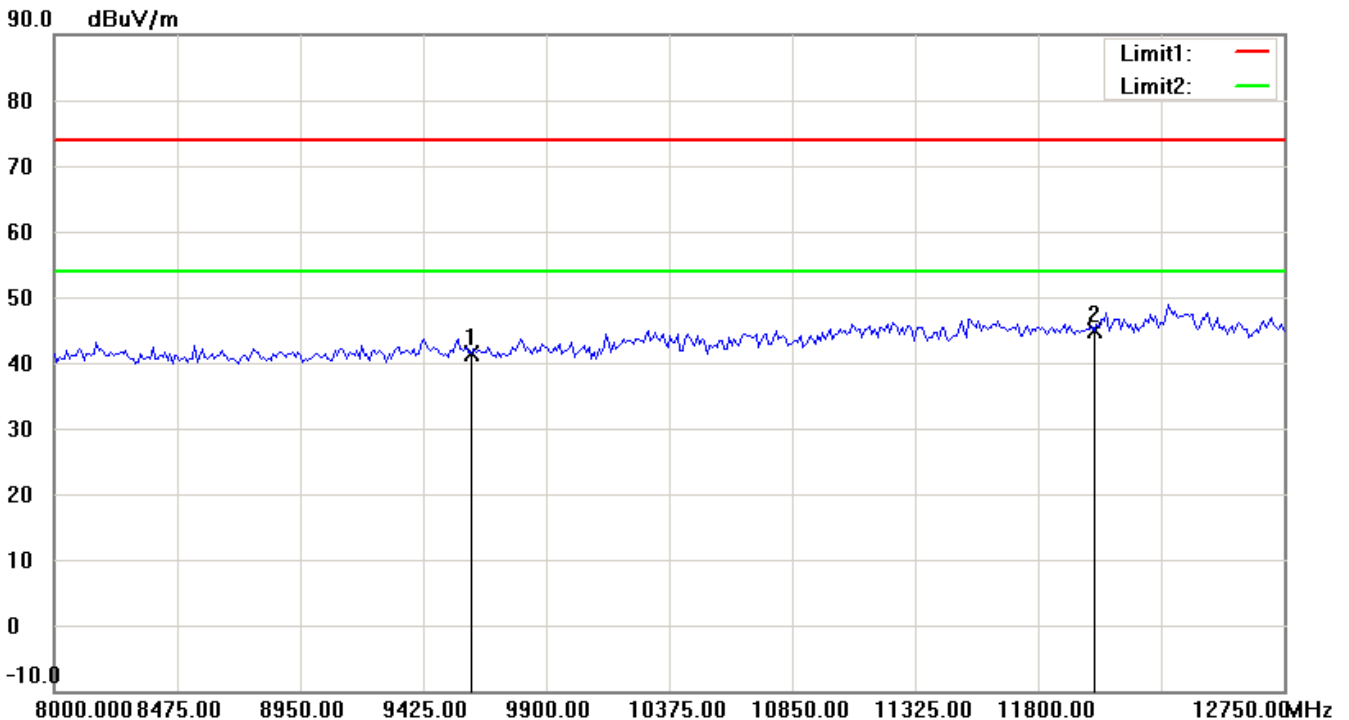
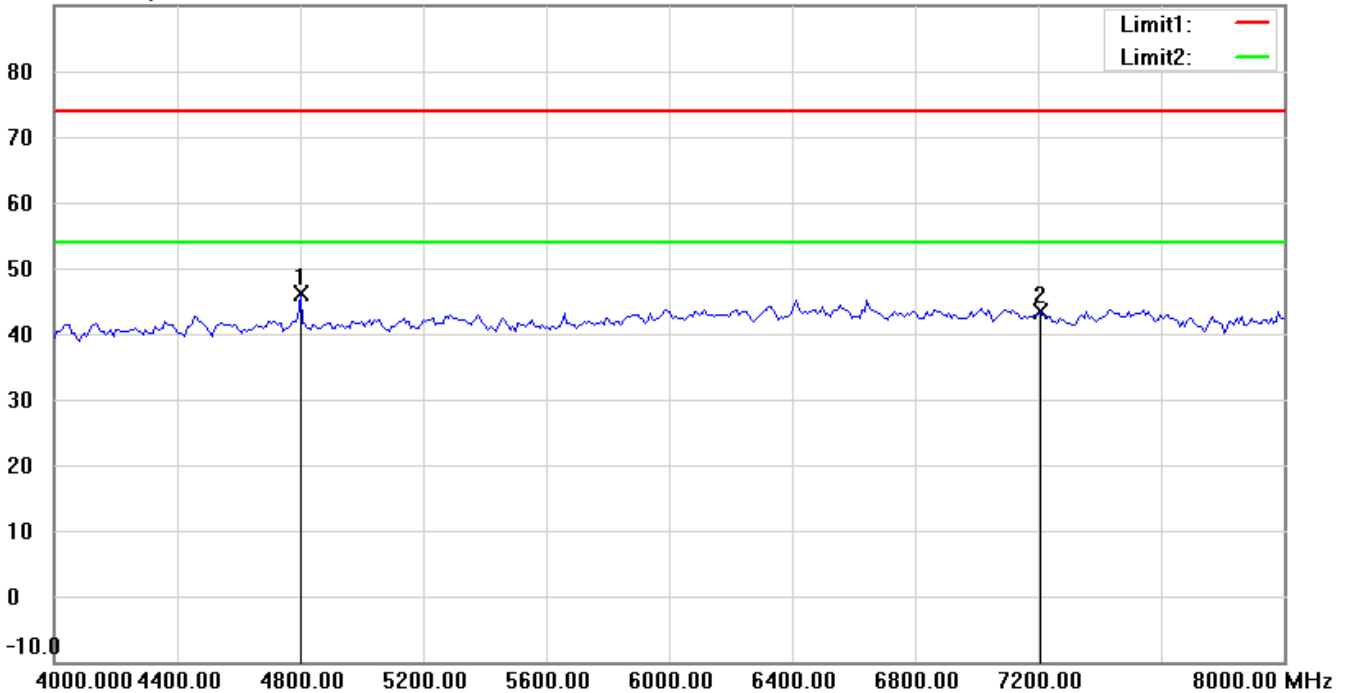


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

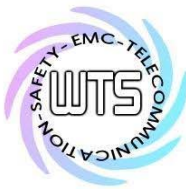
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

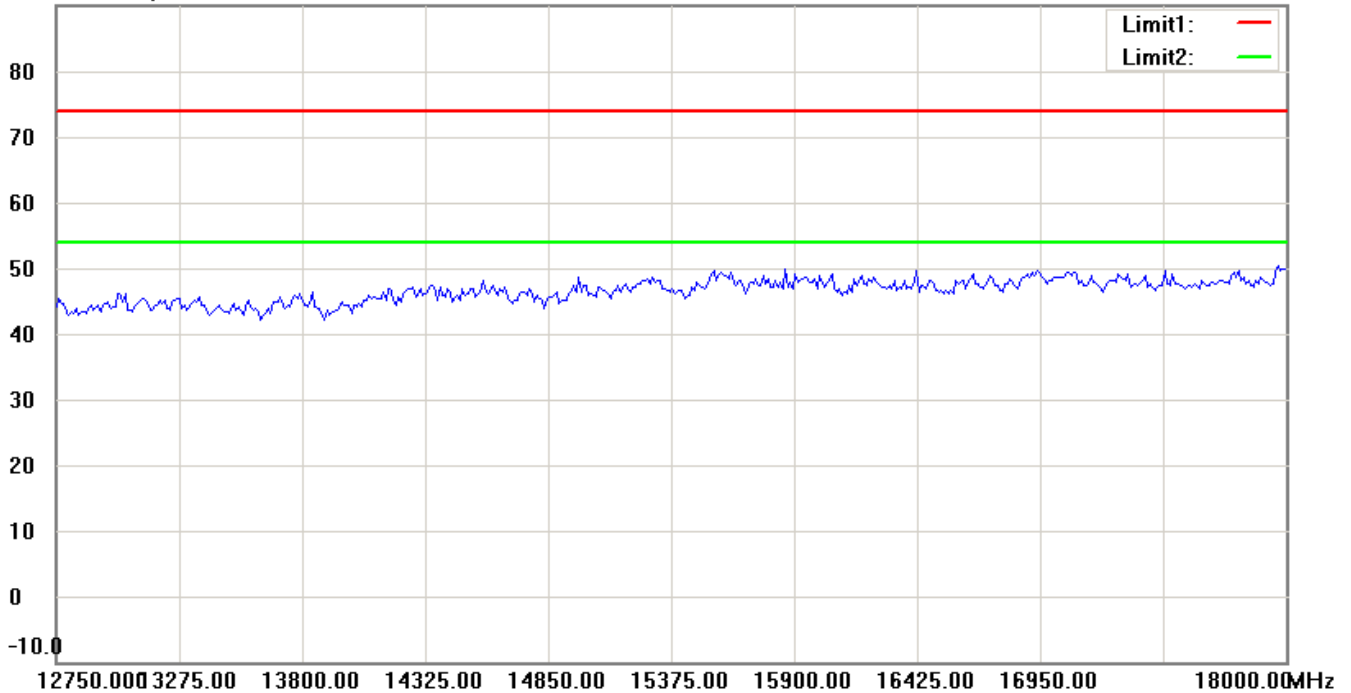


Worldwide Testing Services(Taiwan) Co., Ltd.

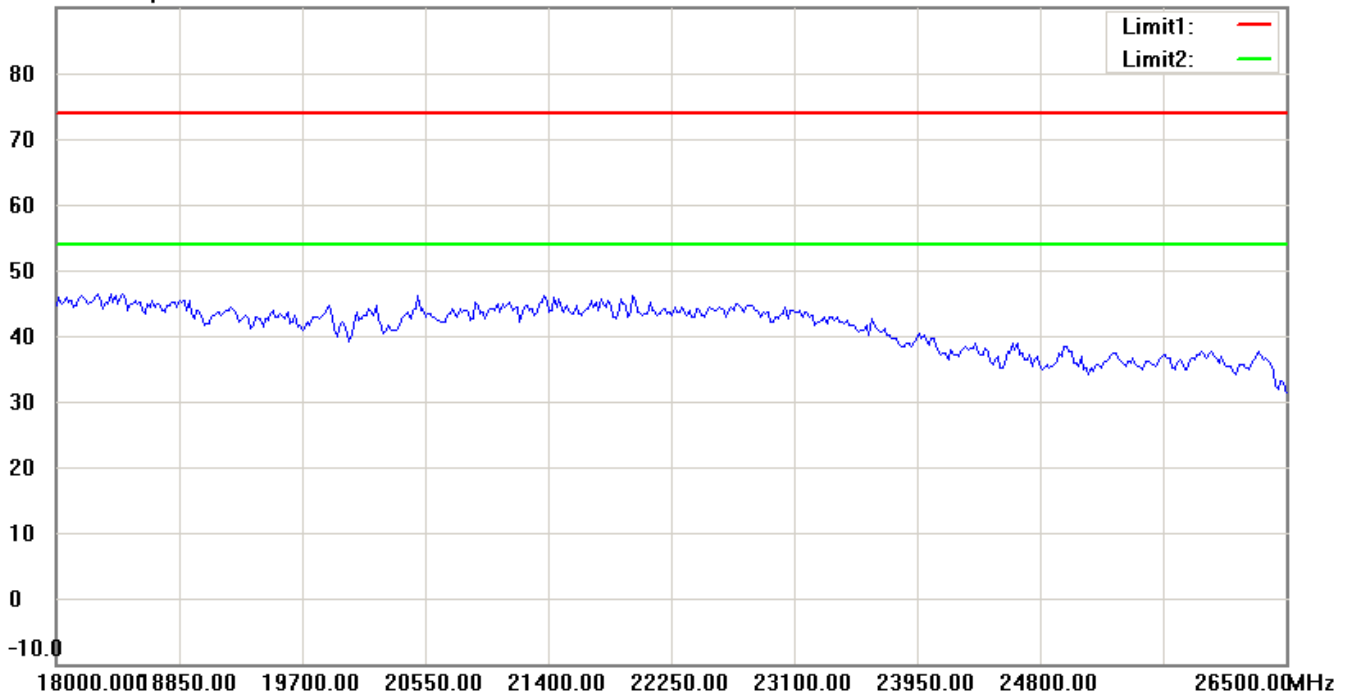
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

90.0 dBuV/m



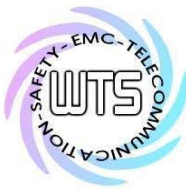
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

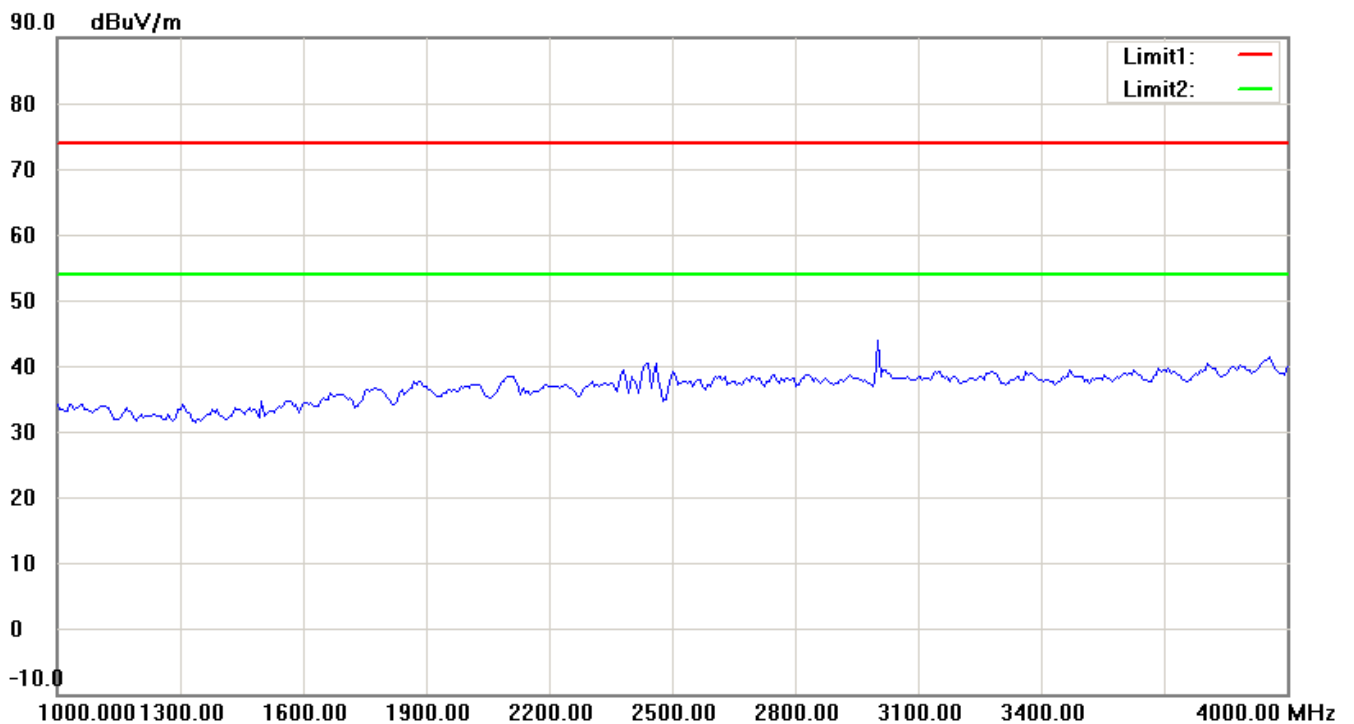
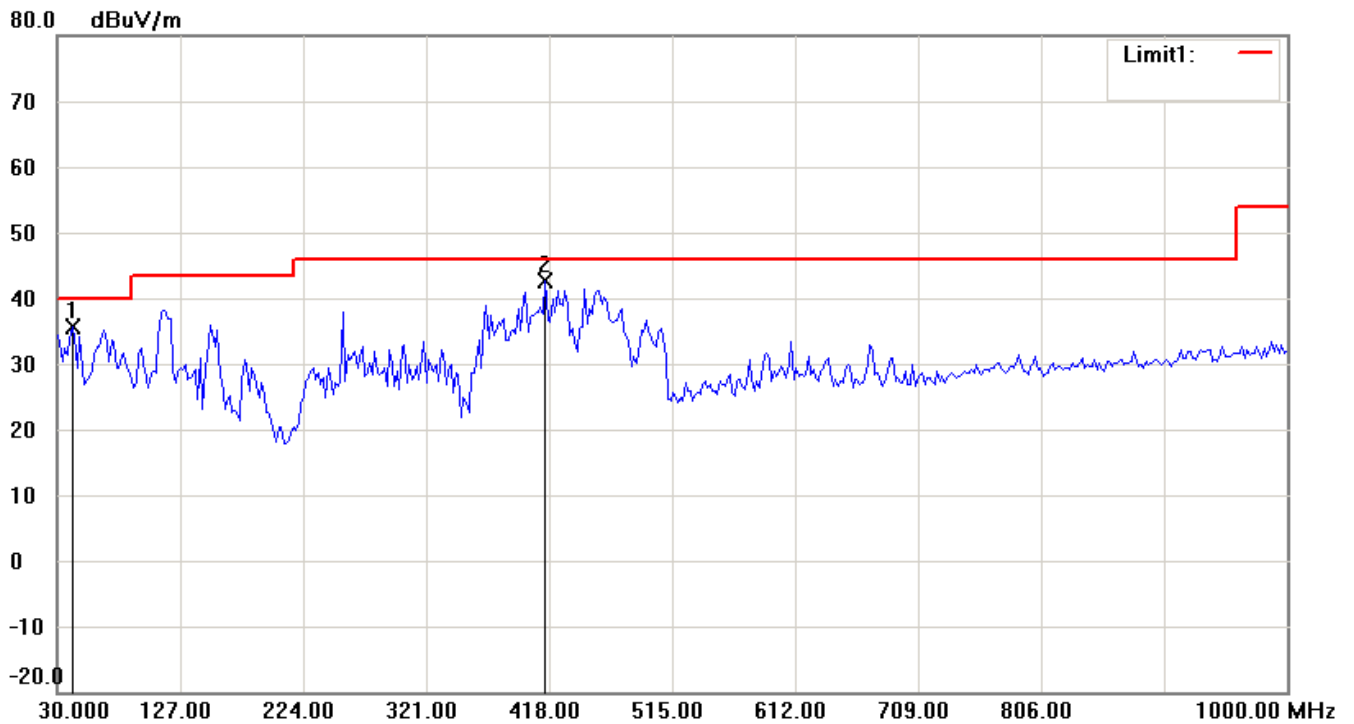
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

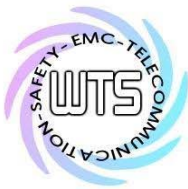
Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

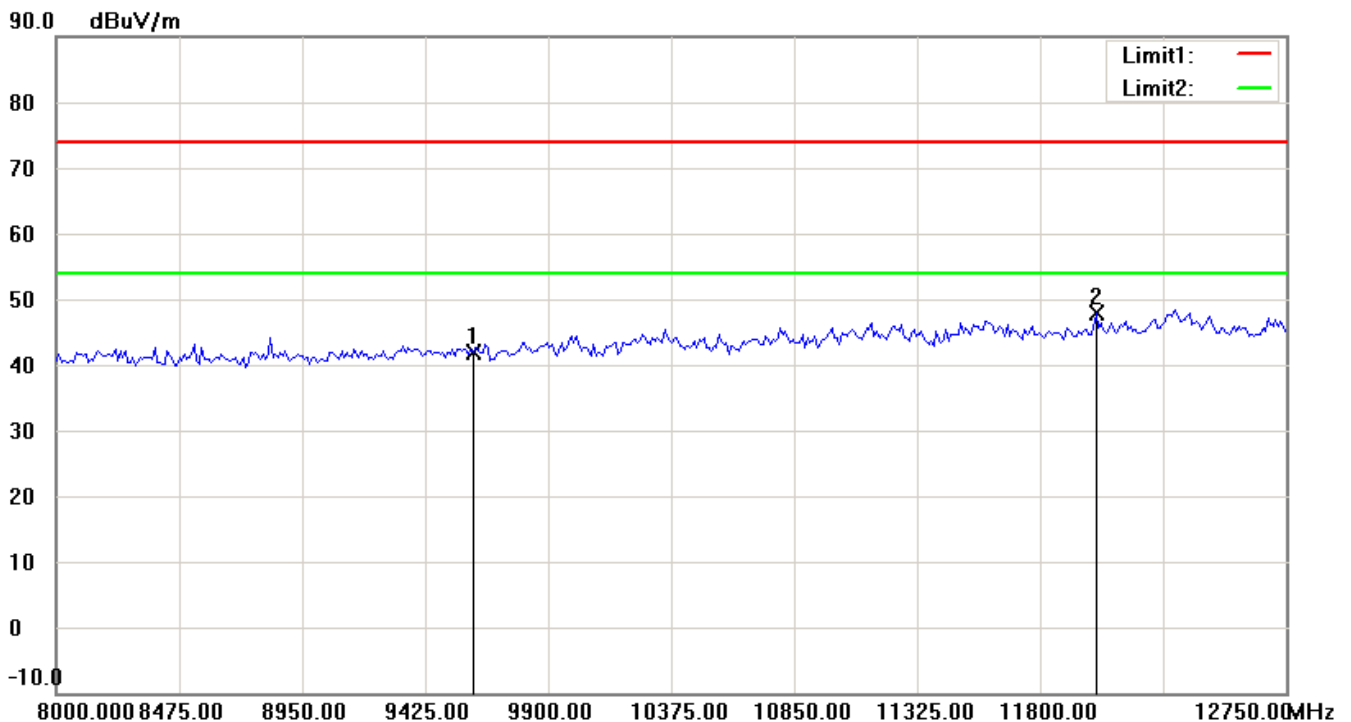
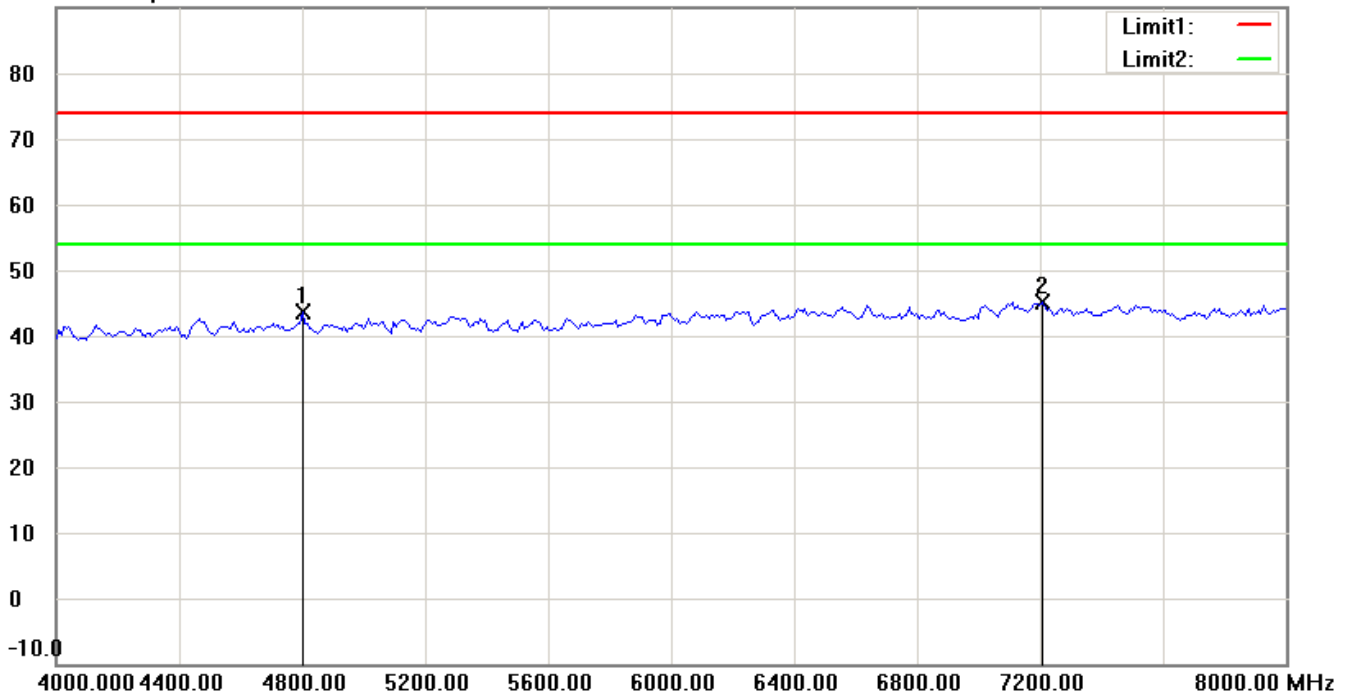


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

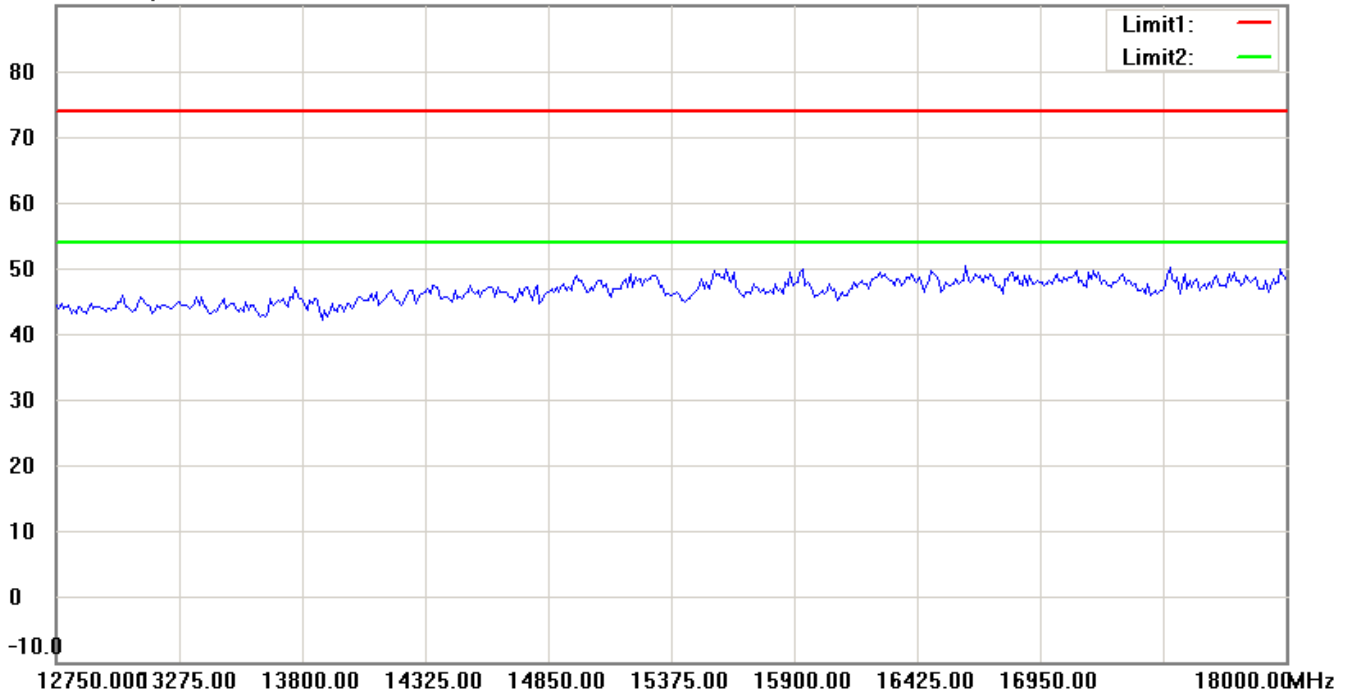


Worldwide Testing Services(Taiwan) Co., Ltd.

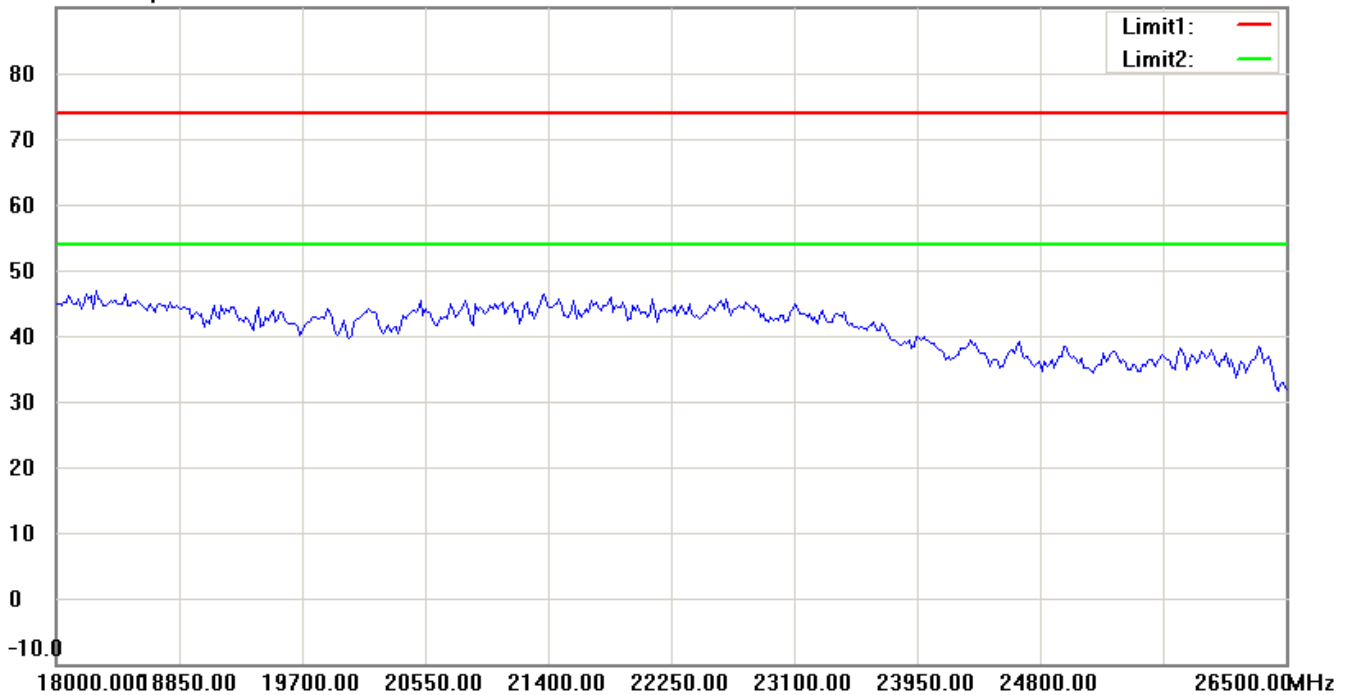
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FCC ID: 2ACIATTBT001

90.0 dBuV/m



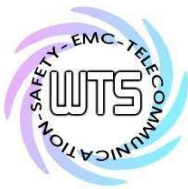
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

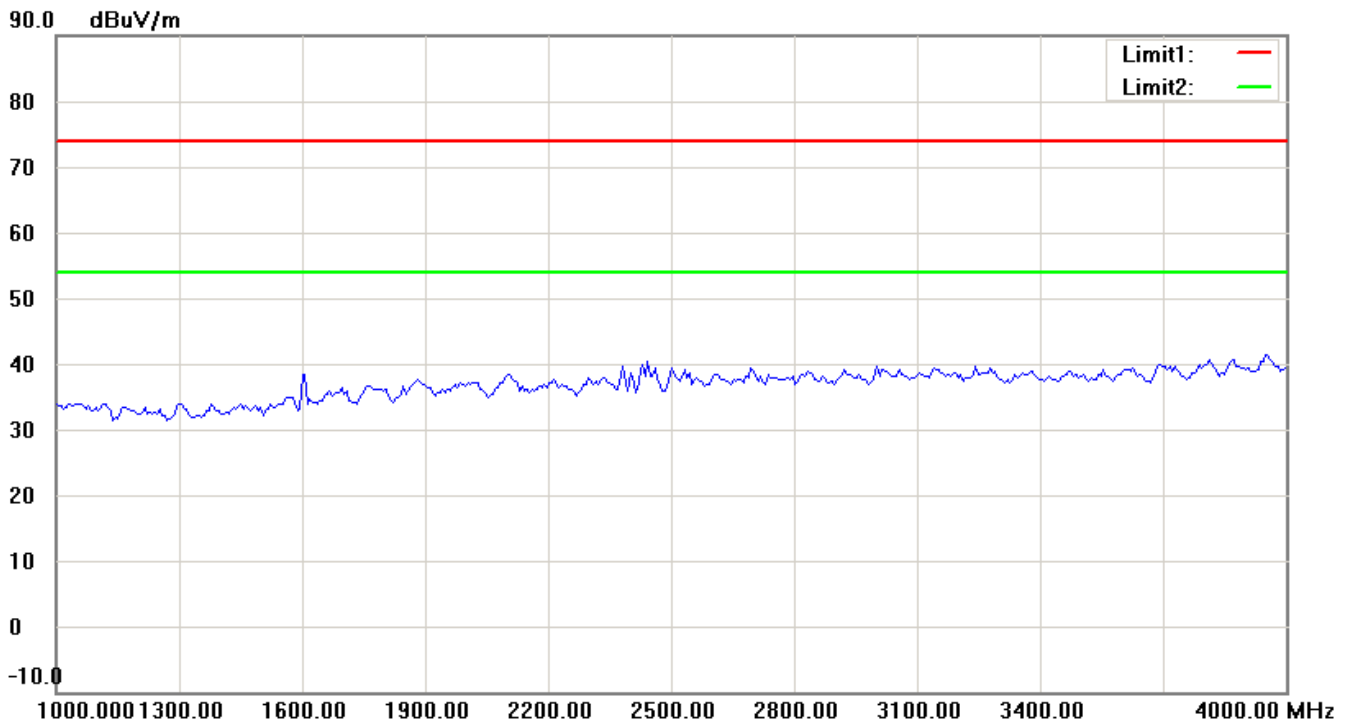
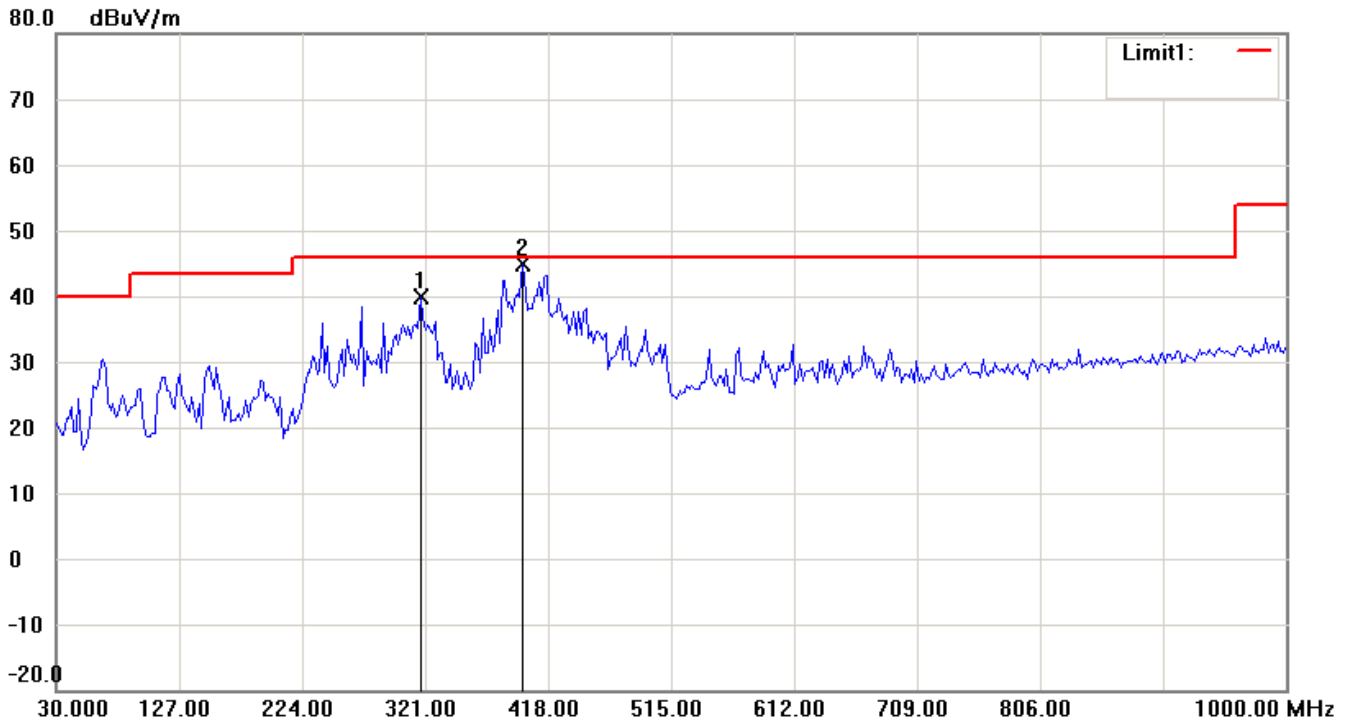


Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATBT001

TX_2441 MHz

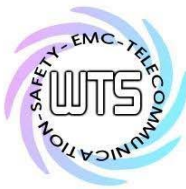
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

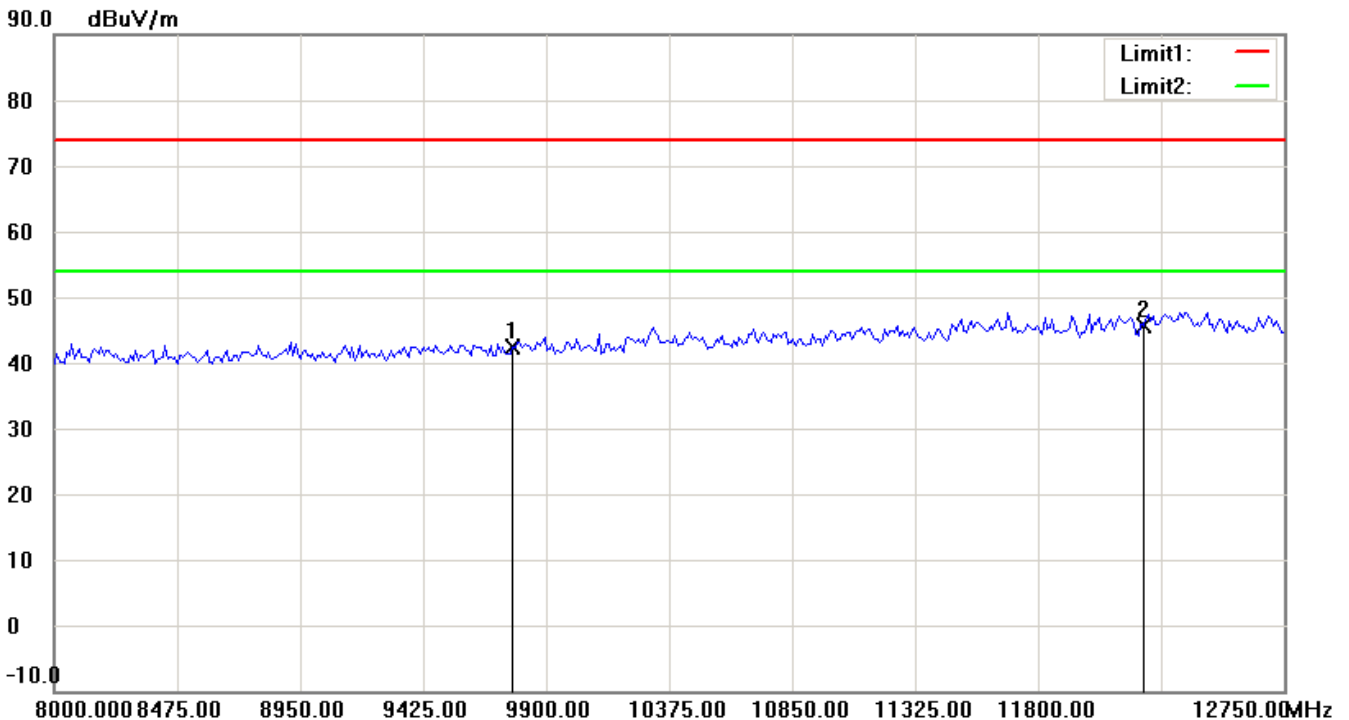
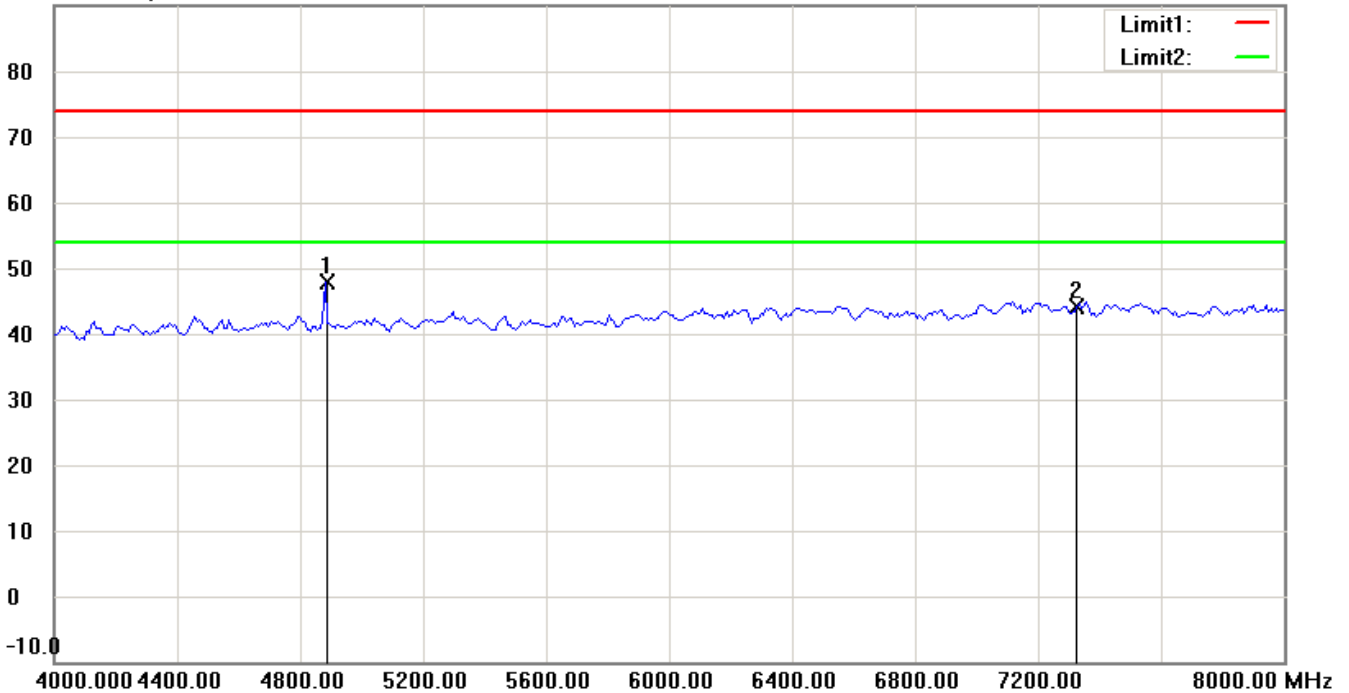


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

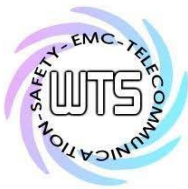
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

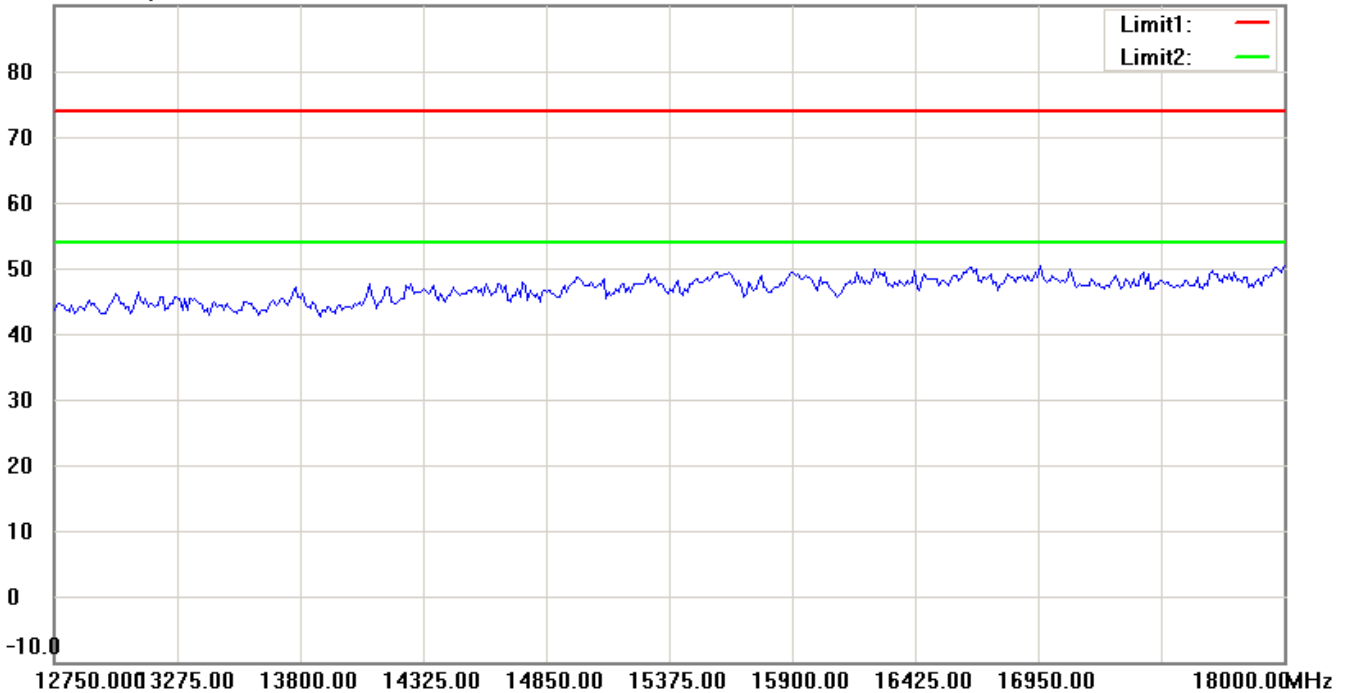


Worldwide Testing Services(Taiwan) Co., Ltd.

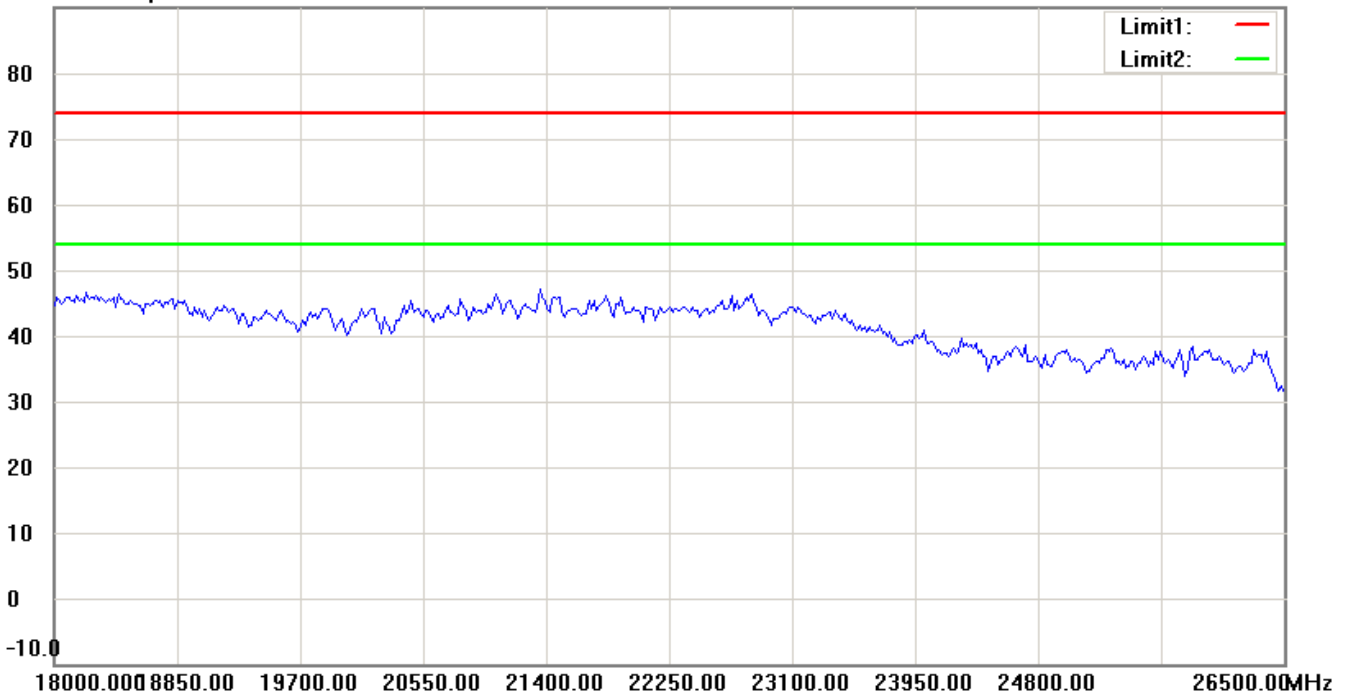
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

90.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

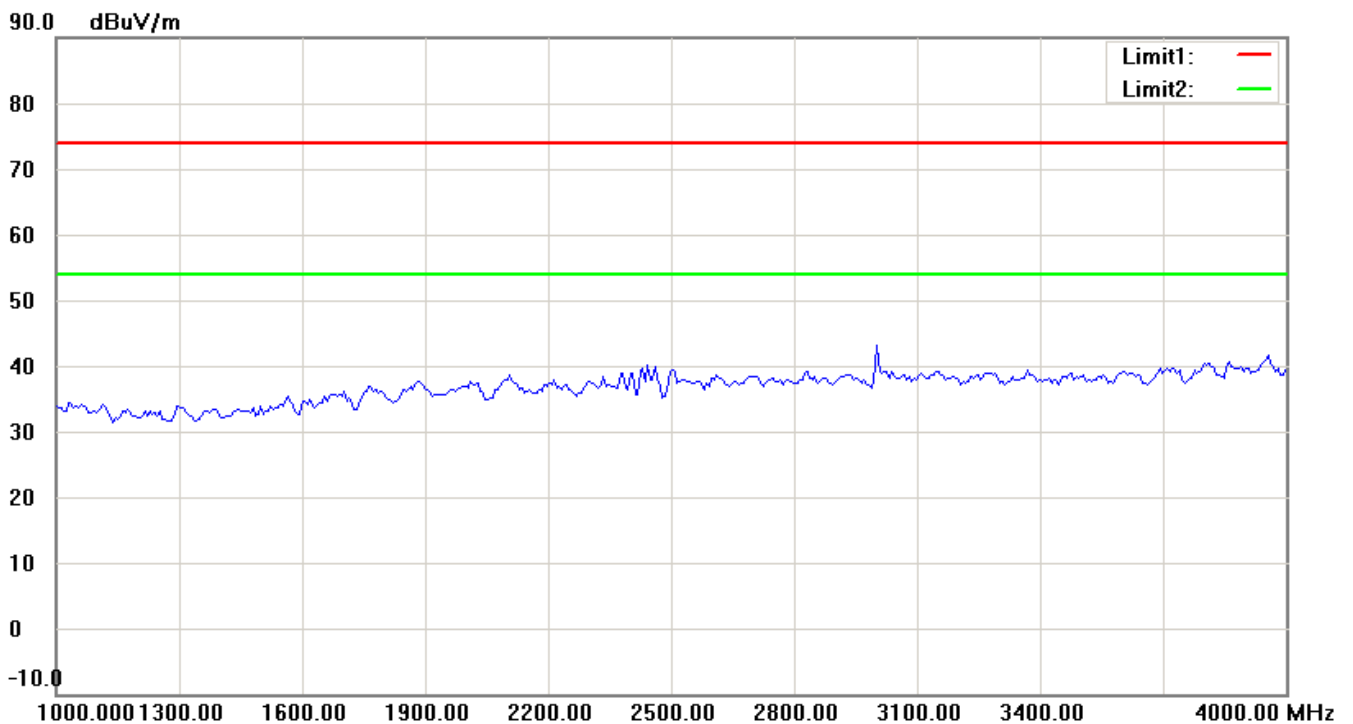
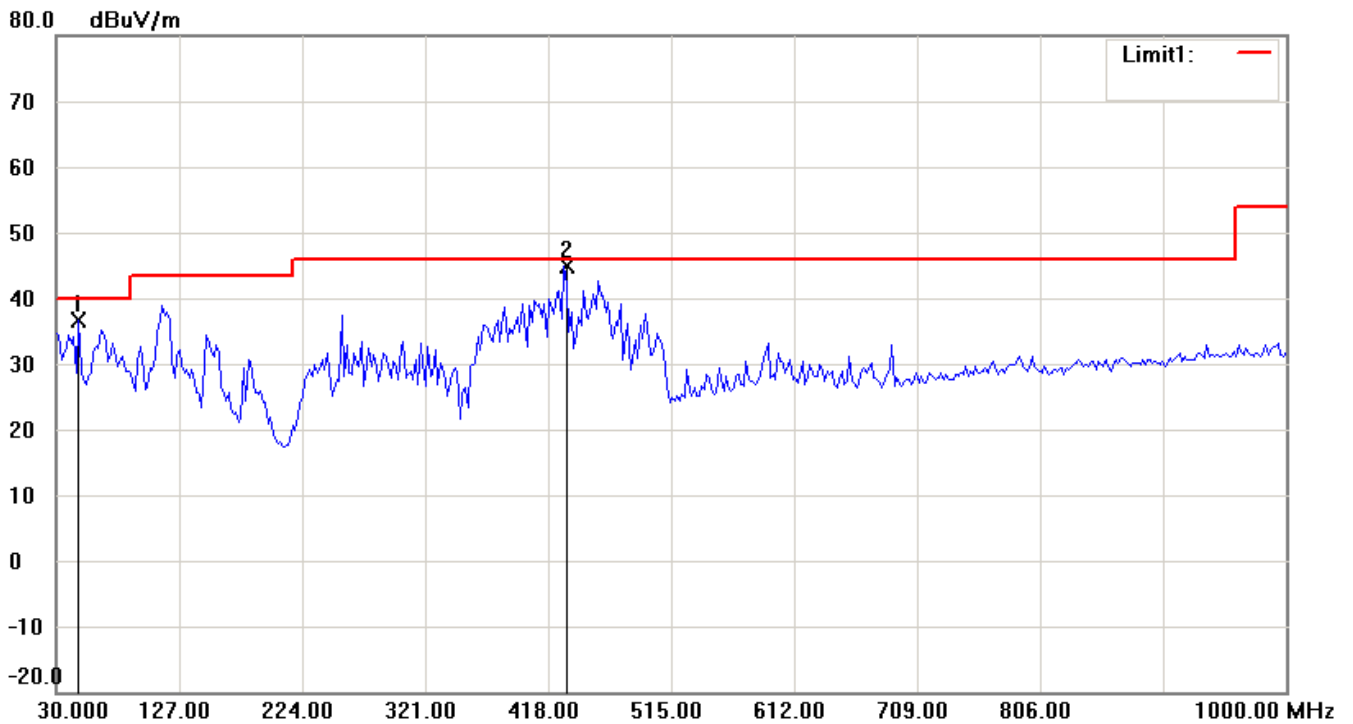
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

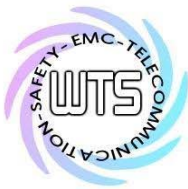
Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

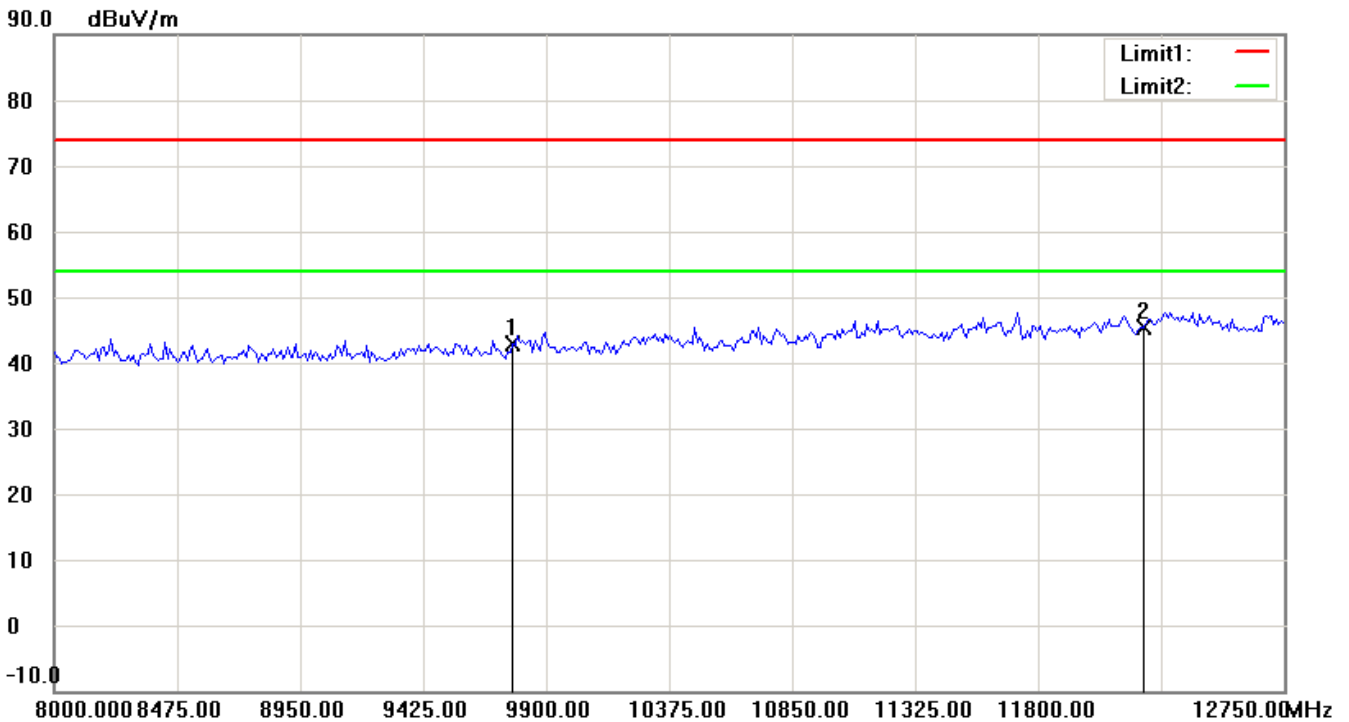
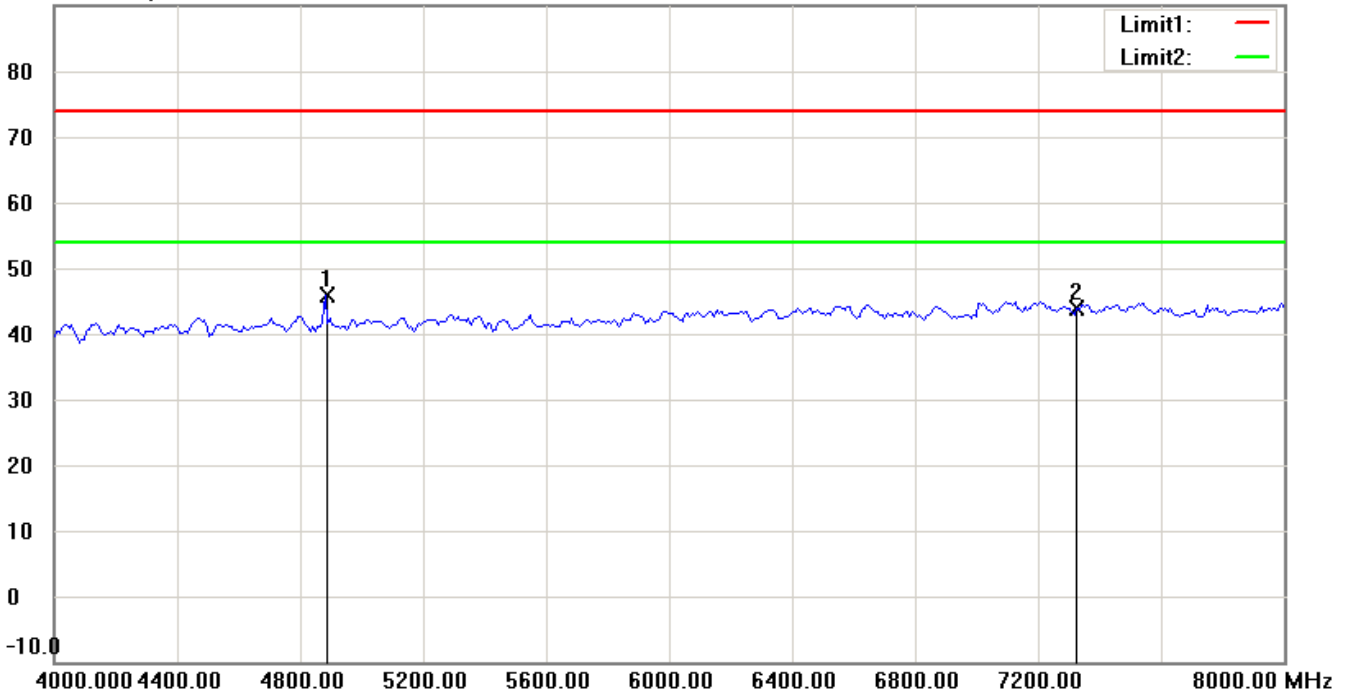


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

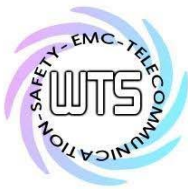
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

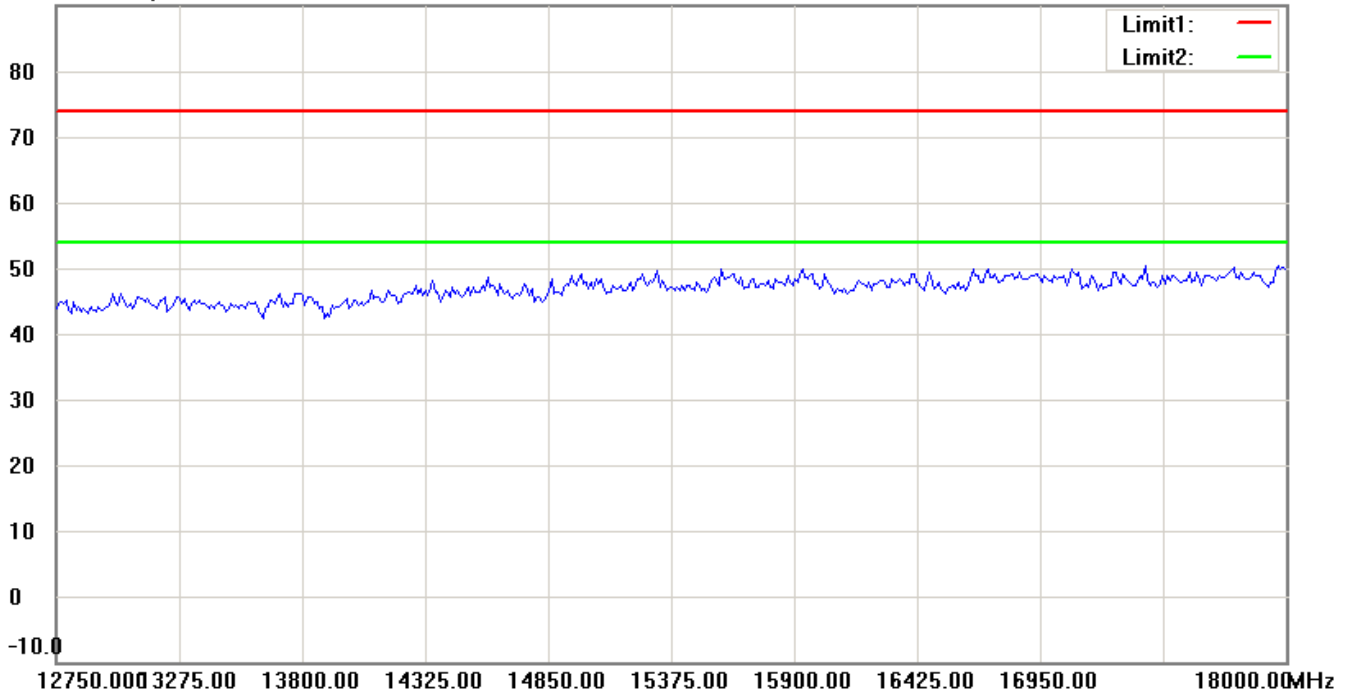


Worldwide Testing Services(Taiwan) Co., Ltd.

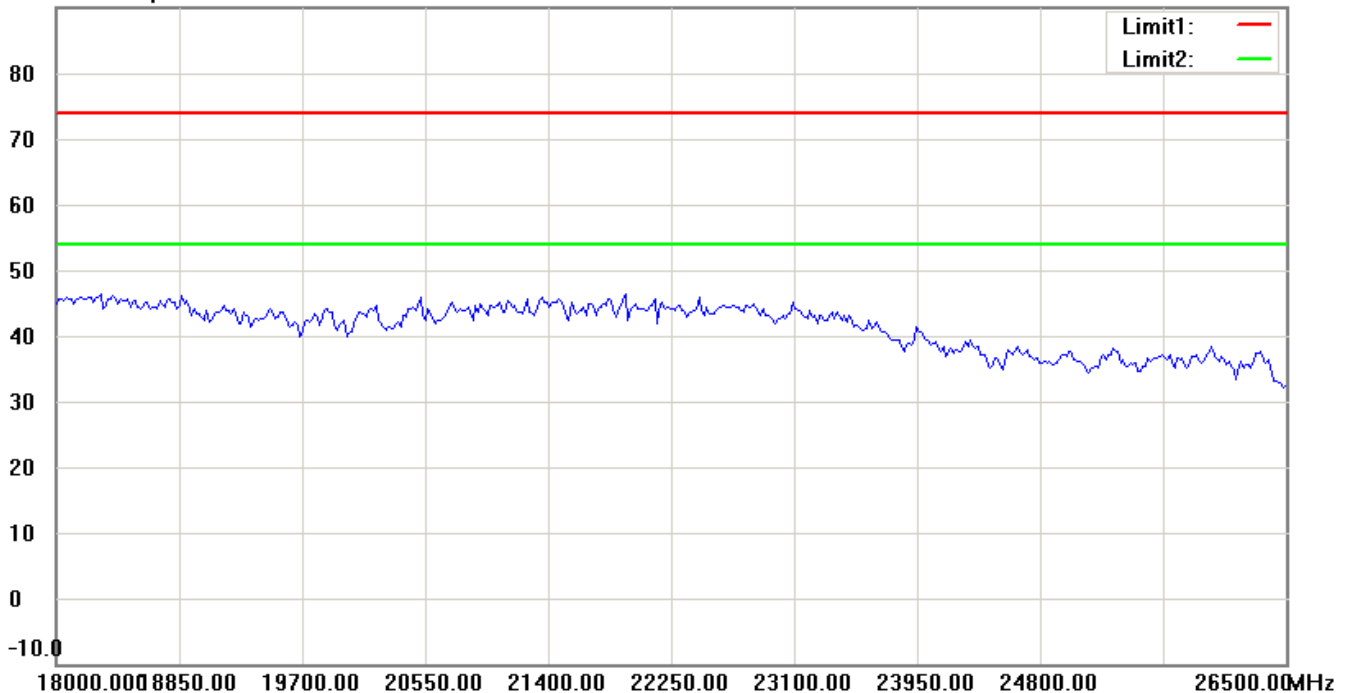
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

90.0 dBuV/m



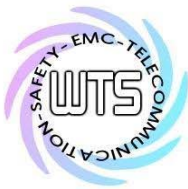
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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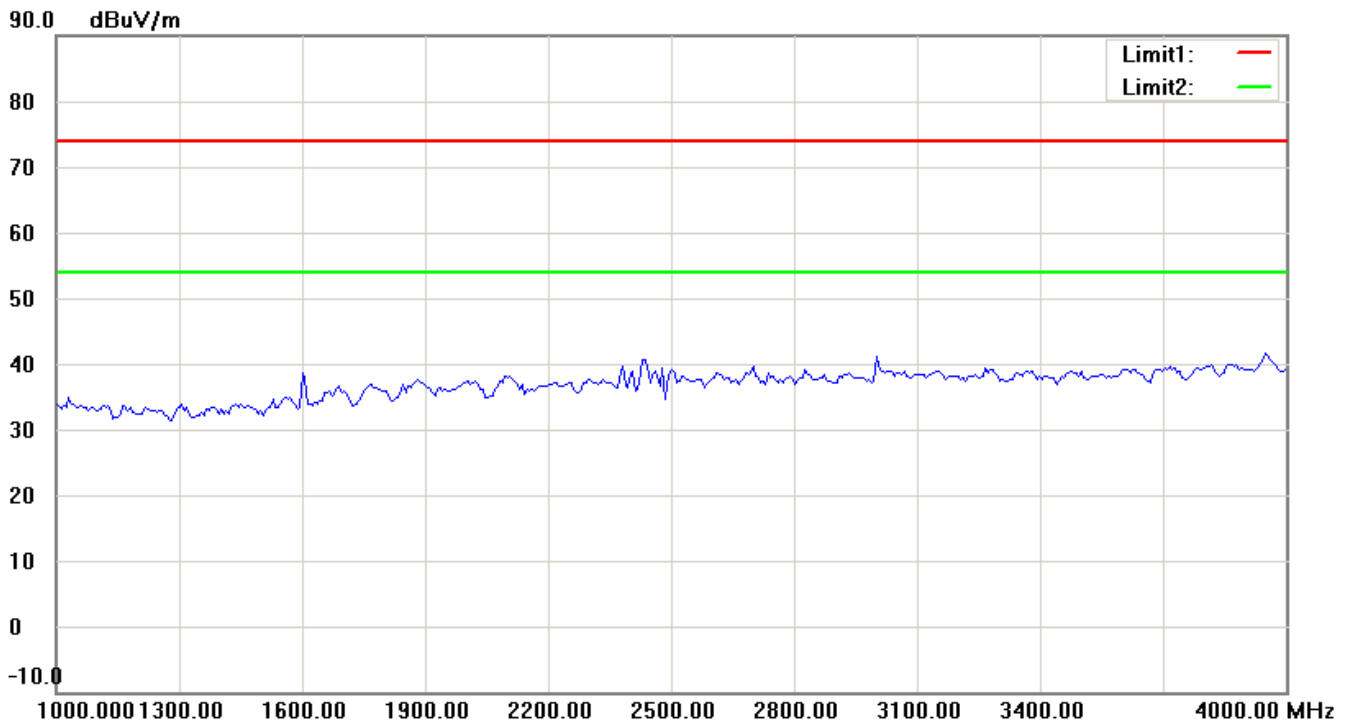
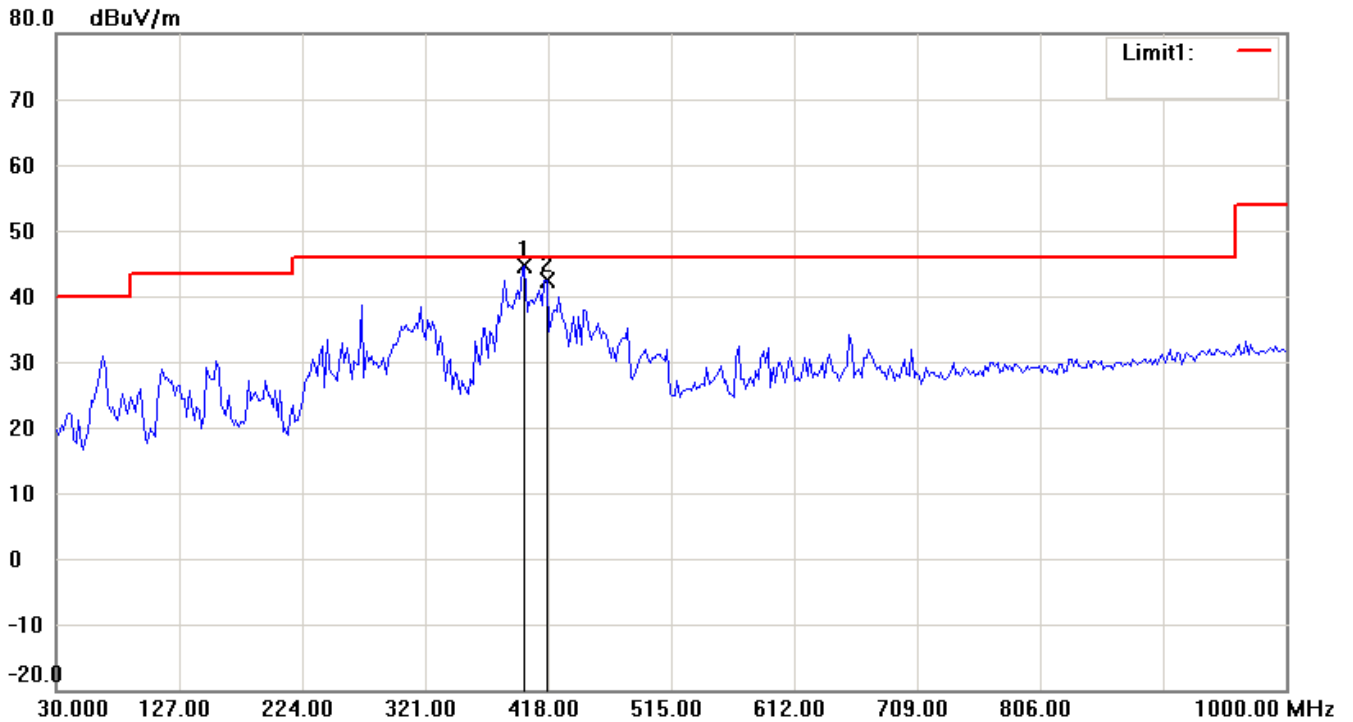


Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

TX_2480 MHz

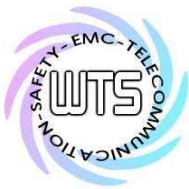
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

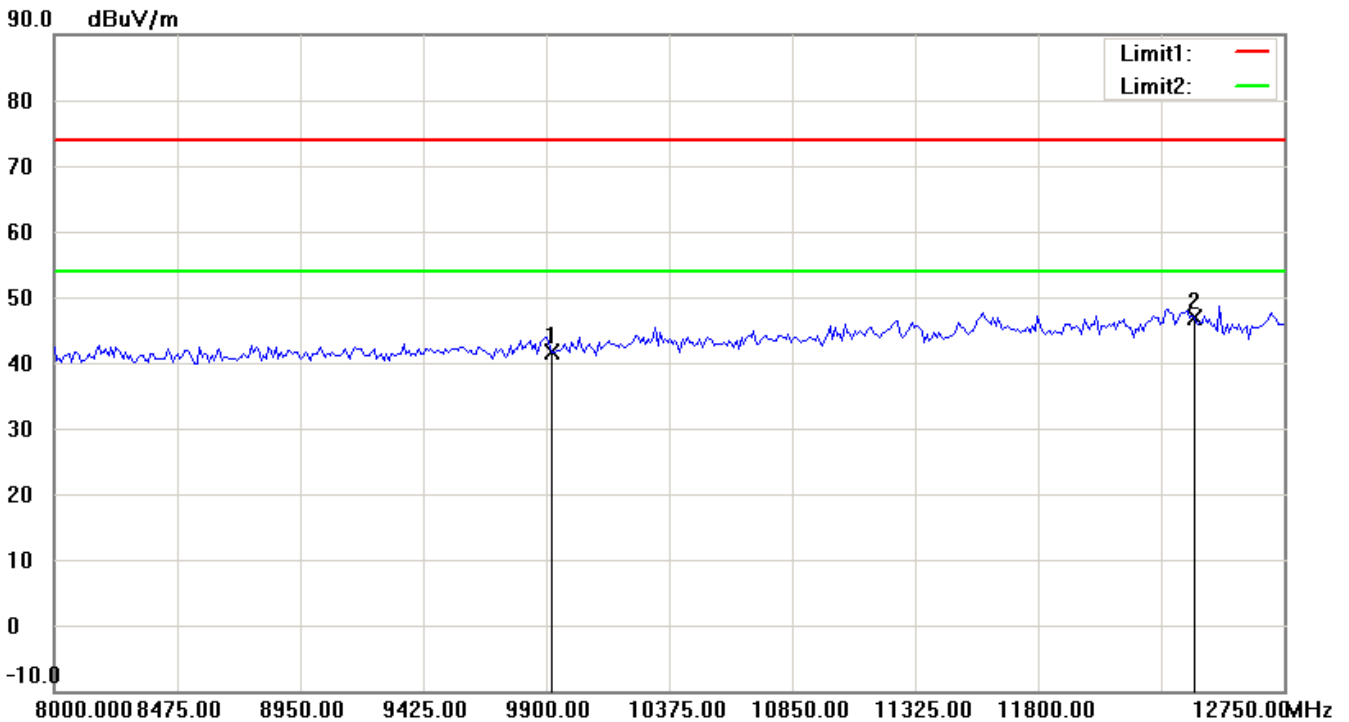
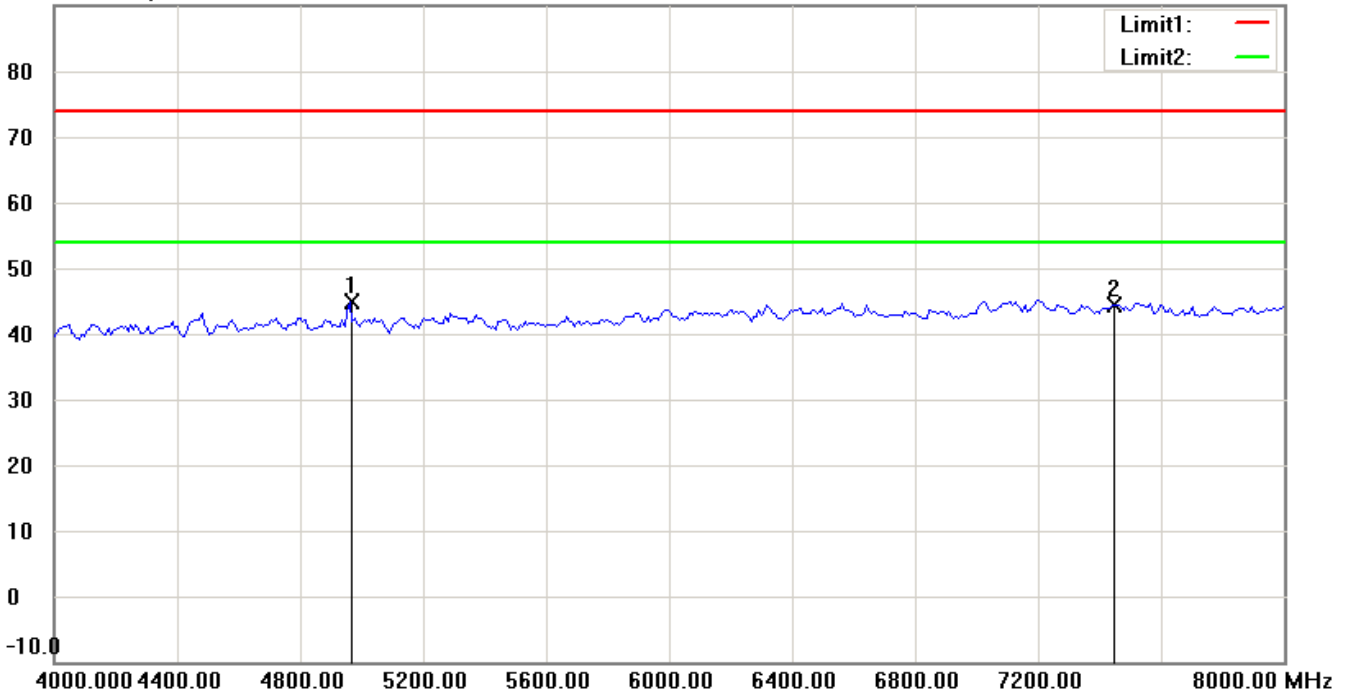


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

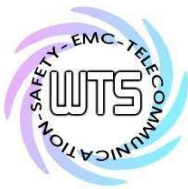
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

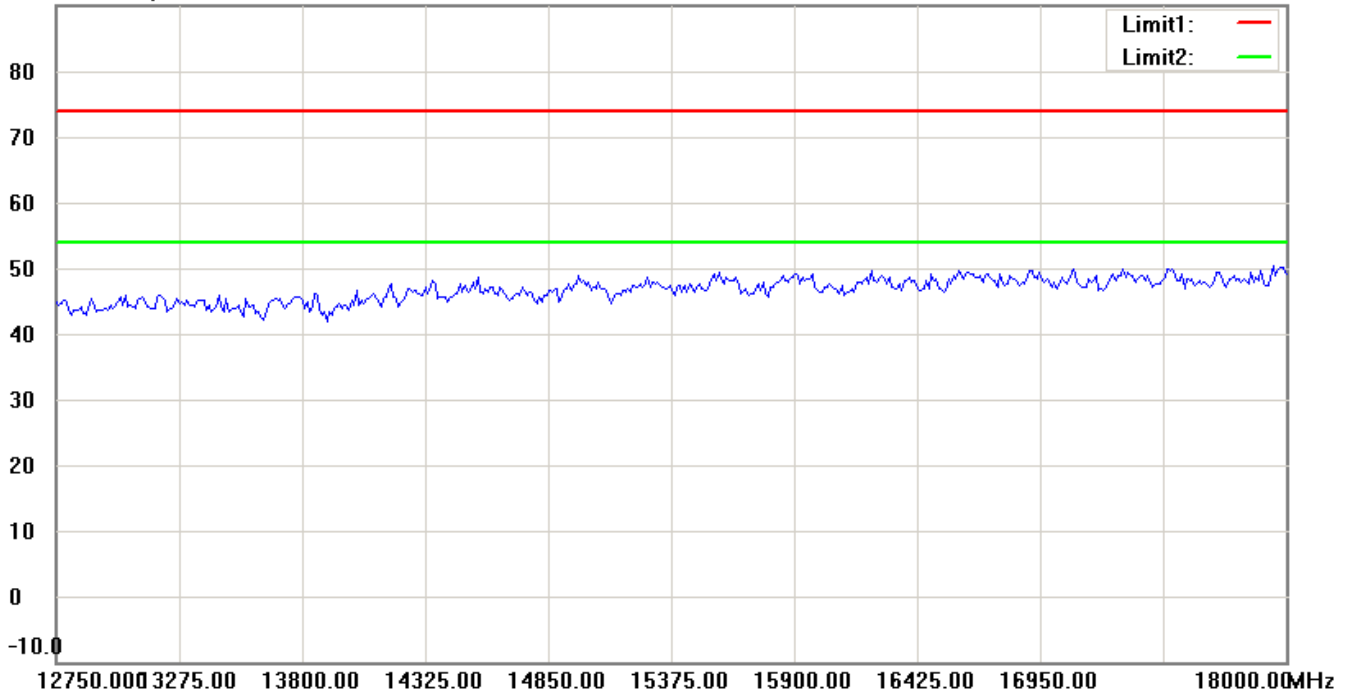


Worldwide Testing Services(Taiwan) Co., Ltd.

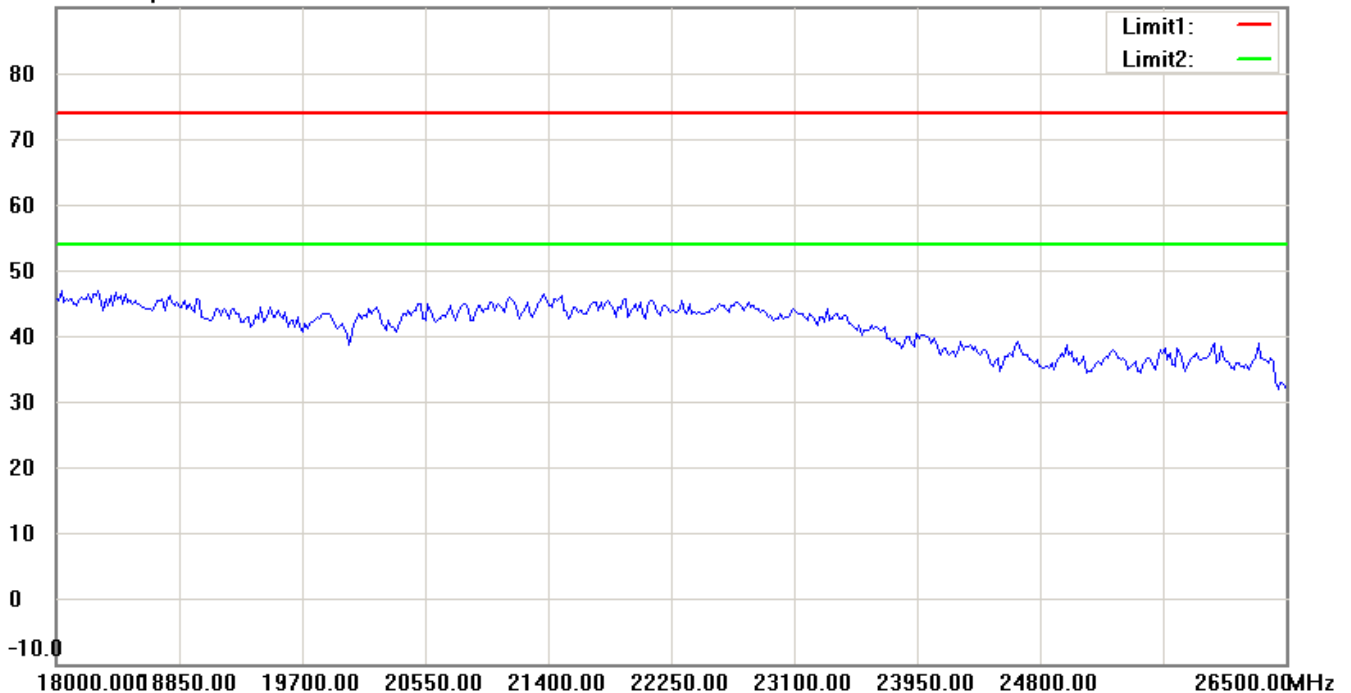
Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

90.0 dBuV/m



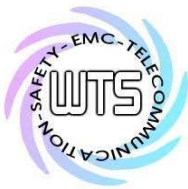
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

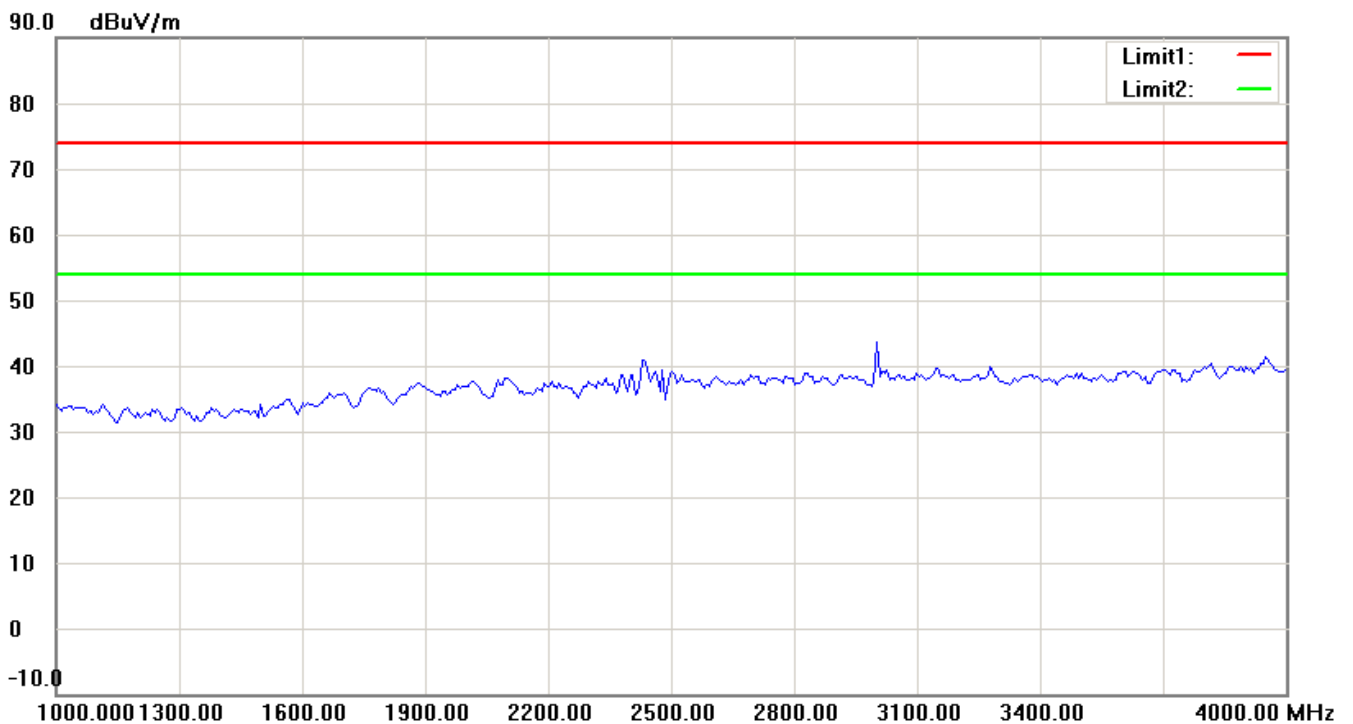
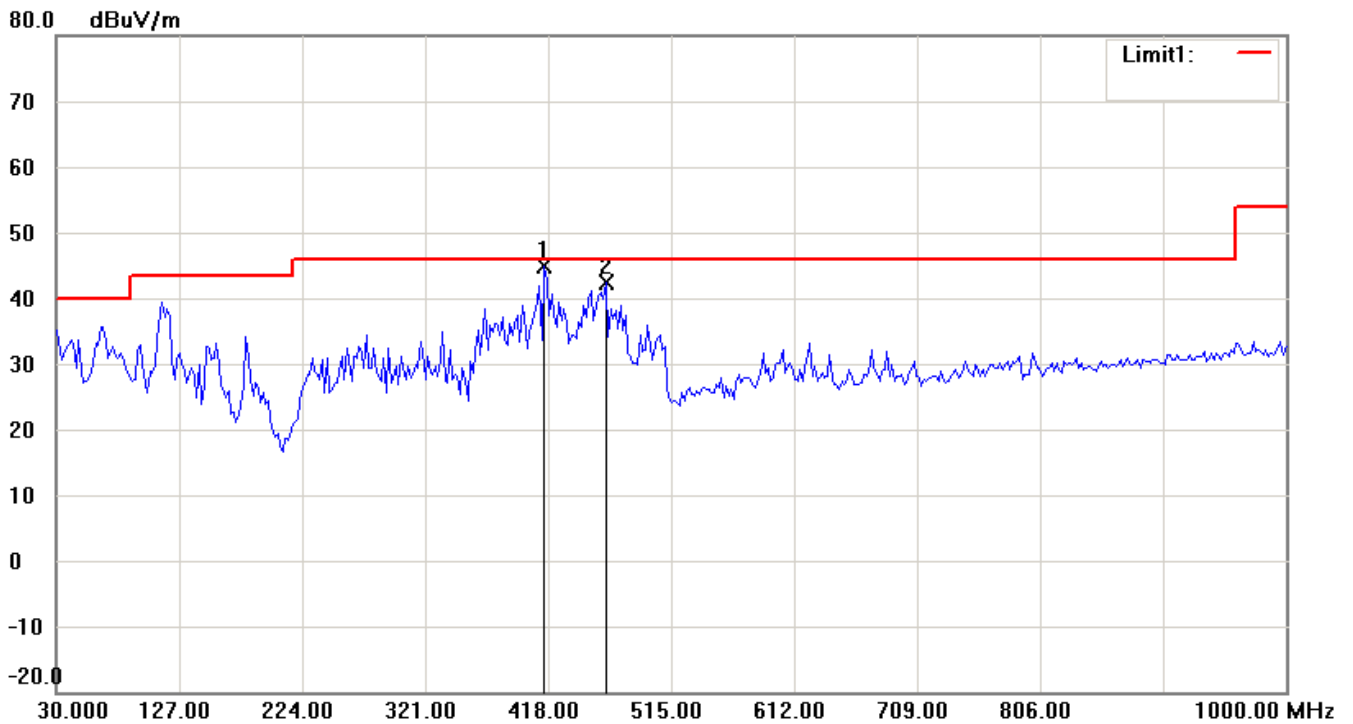
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21405-14172-C-1

FCC ID: 2ACIATTBT001

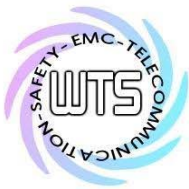
Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

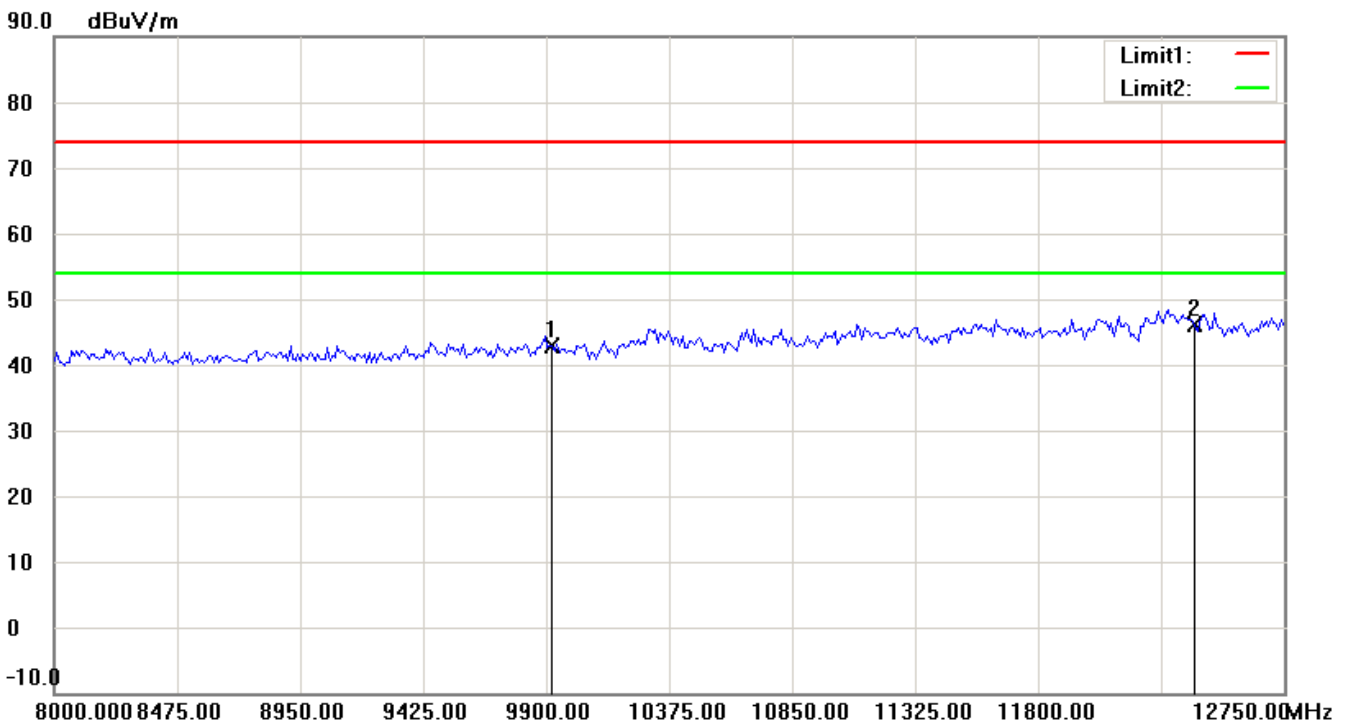
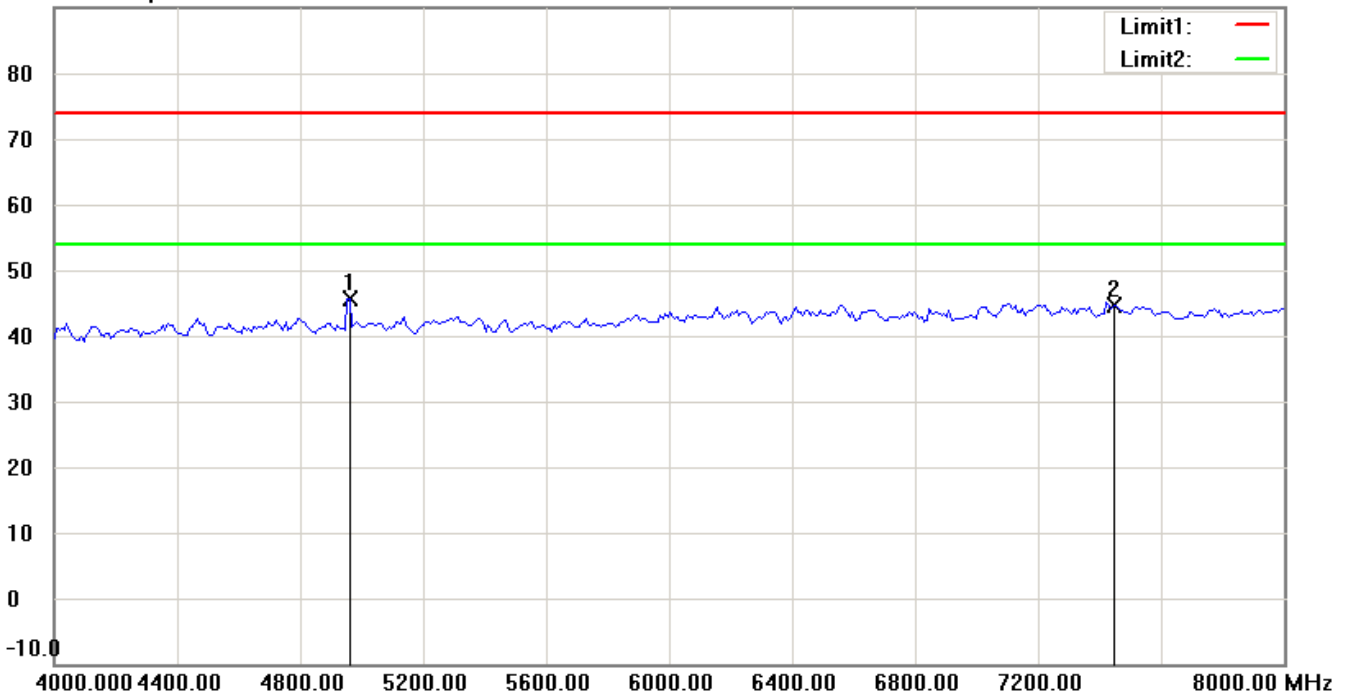


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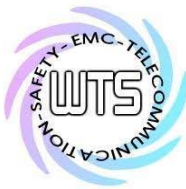
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

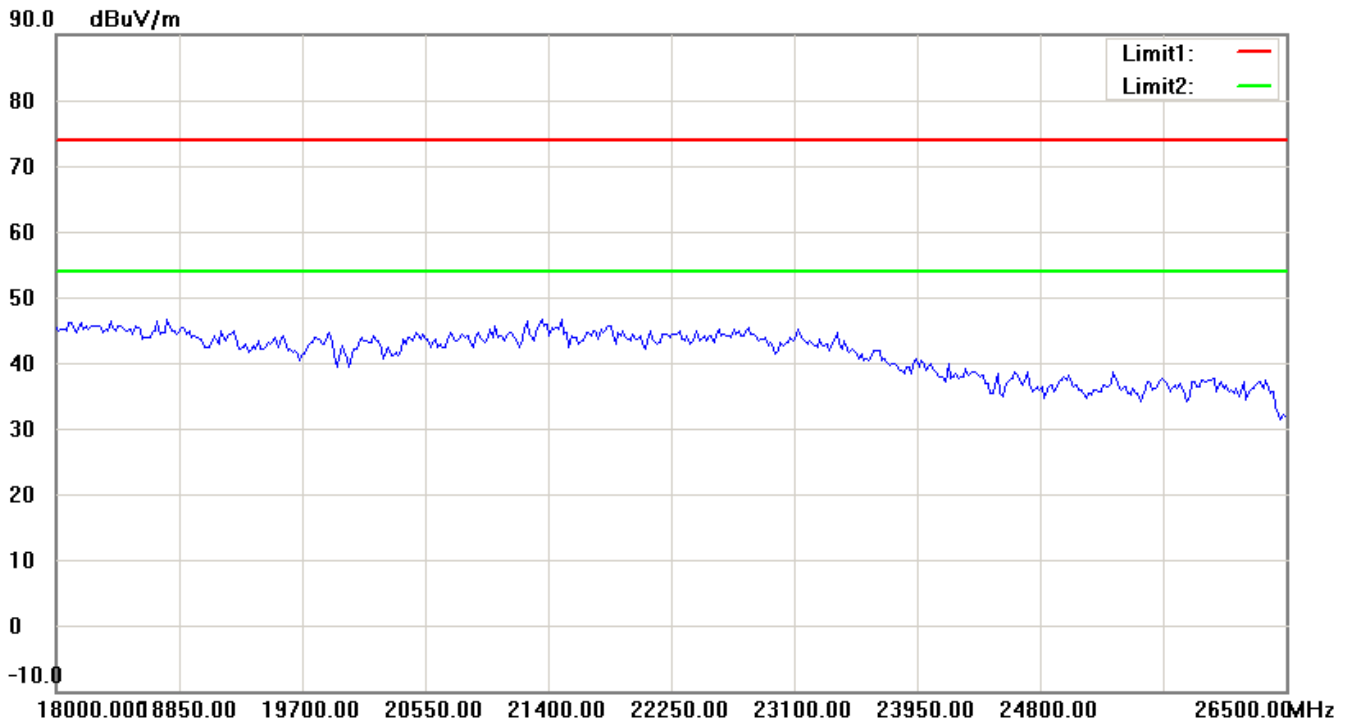
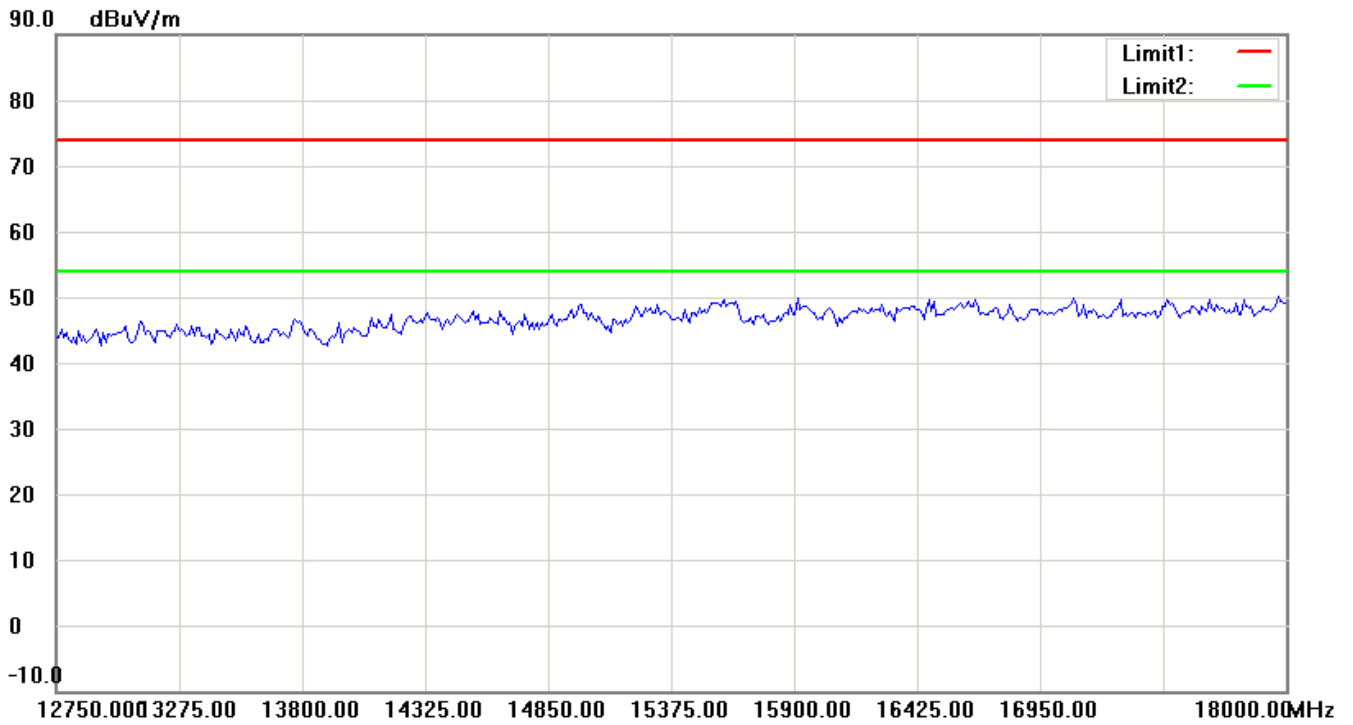
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