

FCC Part 74 CLASS II PERMISSIVE CHANGE TEST Report
for

Transmitter

Model No.: ACT-70TC

FCC ID: M5X-3032707172TC

of

Applicant: MIPRO Electronics Co., Ltd.

Address: 814 Pei-kang Road 600 Chia-yi Taiwan, R.O.C

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21405-14186-C-1-R

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

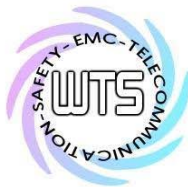
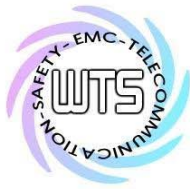


TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	NOTES.....	3
1.2	TESTING LABORATORY	4
1.2.1	Location	4
1.2.2	Details of accreditation status	4
1.3	DETAILS OF APPROVAL HOLDER.....	5
1.4	APPLICATION DETAILS	5
1.5	GENERAL INFORMATION OF TEST ITEM	5
1.6	TEST STANDARDS.....	6
2	TECHNICAL TEST.....	7
2.1	SUMMARY OF TEST RESULTS	7
2.2	TEST ENVIRONMENT	7
2.3	TEST EQUIPMENT LIST	8
2.4	GENERAL TEST PROCEDURE	10
3	TEST RESULTS (ENCLOSURE)	11
4	RF POWER OUTPUT (CONDUCTED) , FCC 2.1046 (A) ; 74.861 (E)	12
4.1	TEST PROCEDURE.....	12
4.2	TEST RESULTS	12
5	RADIATED POWER.....	13
5.1	TEST PROCEDURE	13
5.2	TEST RESULTS	15
6	MODULATION DEVIATION , FCC 2.1047 (B) ; 74.861(E).....	27
6.1	TEST PROCEDURE.....	27
6.2	TEST RESULTS.....	27
7	AUDIO FREQUENCY RESPONSE , FCC 2.1047 (A).....	28
7.1	TEST PROCEDURE.....	28
7.2	TEST RESULTS	28
8	OCCUPIED BANDWIDTH/EMISSION MASK, FCC 2.1049 (C) ; 74.861 (E)(5)	29
8.1	TEST PROCEDURE.....	29
8.2	TEST RESULTS	29
9	SPURIOUS EMISSIONS AT ANTENNA TERMINALS FCC2.1051 ; 74.861 (E)	41
9.1	TEST PROCEDURE.....	41
9.2	TEST RESULTS	41
9.3	LIMIT	41

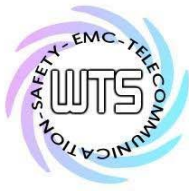


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

10	RADIATED SPURIOUS EMISSION , FCC 2.1053 ; 74.861 (E)	42
10.1	TEST PROCEDURE	42
10.2	TEST RESULTS	42
10.3	EXPLANATION OF TEST RESULT	43
10.4	LIMITS	43
11	LINE CONDUCTED EMISSION , FCC 15.207	44
11.1	TEST PROCEDURE	44
11.2	TEST RESULTS	44
12	FREQUENCY STABILITY VS. TEMPERATURE , FCC 2.1055 , 74.861 (E)	45
12.1	TEST PROCEDURE	45
12.2	TEST RESULTS	45
13	FREQUENCY STABILITY VS. VOLTAGE , FCC 2.1055 (D) ; 74.861 (E)	48
13.1	TEST PROCEDURE	48
13.2	TEST RESULTS	48



Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

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:

May 05, 2016

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

March 24, 2015

Kevin Wang

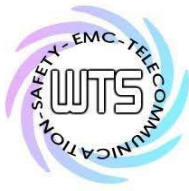
Kevin Wang

Date

WTS

Name

Signature



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Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

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, IC 5107A-1

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

Name: ./.

Accredited number: ./.

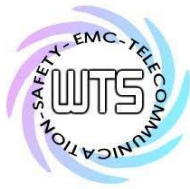
Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

1.3 Details of approval holder

Name: MIPRO Electronics Co., Ltd.
Street: 814 Pei-kang Road 600
Town: Chia-yi
Country: Taiwan, R.O.C
Telephone: +886-5-238-0809
Fax: +886-5-238-0803

1.4 Application details

Date of receipt of test sample (1st): July 11, 2014
Date of test (1st): from July 14, 2014 to March 24, 2015
Date of receipt of test sample (2nd): April 29, 2016
Date of test (2nd): from May 03, 2016 to May 04, 2016

1.5 General information of Test item

Type of test item: Transmitter

Model Number: ACT-70TC

Brand Name: MIPRO

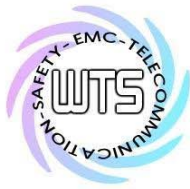
Multi-listing model number: ACT-72TC, ACT-32TC, ACT-71TC
ACT-7XXX(X=0~9,A~Z,a~z or Blank),
ACT-3XXX(X=0~9,A~Z,a~z or Blank),
ACT-5XXX(X=0~9,A~Z,a~z or Blank)

Photos: see Annex

Technical data

Frequency band :

Frequency(MHz)	TV Band	Used Band
26.100-26.480	☐	☐
54.000-72.000	☐	☐
76.000-88.000	☐	☐
161.625-161.775	☐	☐
174.000-216.000	☐	☐
450.000-451.000	☐	☐
455.000-456.000	☐	☐
470.000-488.000	☒	☒
488.000-494.000	☒	☒
494.000-608.000	☒	☒
614.000-698.000	☒	☒
944.000-952.000	☐	☐



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Frequency (ch A):	480.1 MHz
Frequency (ch B):	544 MHz
Frequency (ch C):	607.9 MHz
Frequency (ch D):	614.1 MHz
Frequency (ch E):	656 MHz
Frequency (ch F):	697.9 MHz

Antenna Type: 1/4 λ Antenna

Antenna Gain: 0 dBi

Power supply: Battery 3.7 VDC

Operation modes: Simplex

Manufacturer: (if applicable)

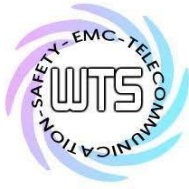
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Street:	./.
Town:	./.
Country:	./.

1.6 Test standards

Technical standard: FCC Part 74 Subpart H , section 74.861 (2015-12)

Special statement:

1. This test report is based on the original test report no.: W6M21405-14186-C-1.
2. The relevant Circuitry, PCB Layout, Inner element, Appearance and Function is exactly the same as the one in original test report. The differences are the multi-listing model number, adding data for Emission mask and the version of test standard. Except for Emission mask test item, the test result is also based on the original test report no. W6M21405-14186-C-1.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

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.

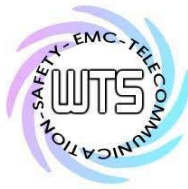


2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86-103 KPa



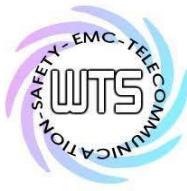
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Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

2.3 Test Equipment List

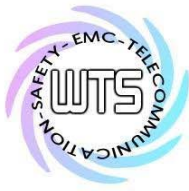
No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2015/9/4	2016/9/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2015/7/13	2016/7/12
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2015/9/7	2016/9/6
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2015/8/14	2016/8/13
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2015/9/4	2016/9/3
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2015/8/14	2016/8/13
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	2015/6/22	2016/6/21
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2015/6/16	2016/6/15
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2016/3/23	2017/3/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2016/1/25	2017/1/24
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2016/3/28	2017/3/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2016/4/14	2017/4/13
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2016/2/27	2017/2/26
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2016/2/25	2017/2/24
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2016/4/13	2017/4/12
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	2015/9/6	2016/9/5
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2015/9/21	2016/9/20
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2016/2/25	2017/2/24
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2016/1/13	2017/1/12
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2015/6/8	2016/6/7
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2015/8/11	2016/8/10



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2015/8/11	2016/8/10
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2016/2/25	2017/2/24
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2015/8/11	2016/8/10
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2015/8/11	2016/8/10
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2016/4/13	2017/4/12
ETSTW-RE 143	Humidity Temperature Meter	TES-1260	110104623	TES	2015/9/9	2016/9/8
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2016/3/31	2017/3/30
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2016/3/4	2017/3/3
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2016/2/3	2017/2/2
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2016/1/13	2017/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2016/1/13	2017/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2015/9/16	2016/9/15
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2015/9/11	2016/9/10
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.	2015/9/11	2016/9/10
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2016/2/24	2017/2/23
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2016/4/22	2017/4/21
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2016/4/7	2017/4/6
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2015/5/14	2016/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2015/9/21	2016/9/20
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2015/9/21	2016/9/20
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2016/2/25	2017/2/24
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2016/4/7	2017/4/6
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2016/4/13	2017/4/12
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	



Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 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 C63.10-2013 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 100 kHz 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 %.

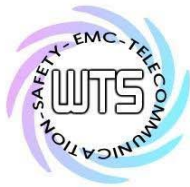
The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (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 at the registered open field test site located at The Registration Number: 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.

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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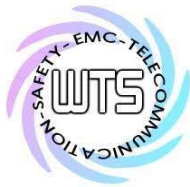
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FCC ID: M5X-3032707172TC

3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
RF Power Output	2.1046 (a); 74.861 (e)(1)	☒	☒	☐
Modulation Deviation	2.1047 (b); 74.861 (e)(2)	☒	☒	☐
Audio Frequency Response	2.1047 (a)	☒	☒	☐
Occupied Bandwidth / Emission Mask	2.1049 (c)(1); 74.861 (e)(5) ETSI EN 300 422-1 v1.4.2	☒	☒	☐
Spurious Emissions at Antenna Terminals	2.1051 74.861(e)(6)	☐	☐	☐
Radiated Spurious Emission	2.1053 74.861(e)(6)	☒	☒	☐
Line Conducted Emissions	15.207	☐	☐	☐
Frequency Stability vs. Temperature	2.1055 (b); 74.861(e)(4)	☒	☒	☐
Frequency Stability vs. Voltage	2.1055 (a)(1); 74.861 (e)(4)	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

4 RF Power Output (conducted) , FCC 2.1046 (a) ; 74.861 (e)

4.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm. The power output at the transmitter antenna port was determined by assign the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

4.2 Test Results

Frequency Channel	Peak Output Power (dBm)
-- MHz	--
-- MHz	--
-- MHz	--

Limits:

LPAS operating in TV bands	
Frequency [MHz]	Conducted output power [mW]
54 – 72 76 – 88 174 - 216	50 (17 dBm)
470 – 608 614 - 698	250 (24 dBm)

LPAS operating in other than TV bands	
Conducted power [W]	1

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

Explanation :This test is not required.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

5 Radiated Power

5.1 Test Procedure

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site. The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

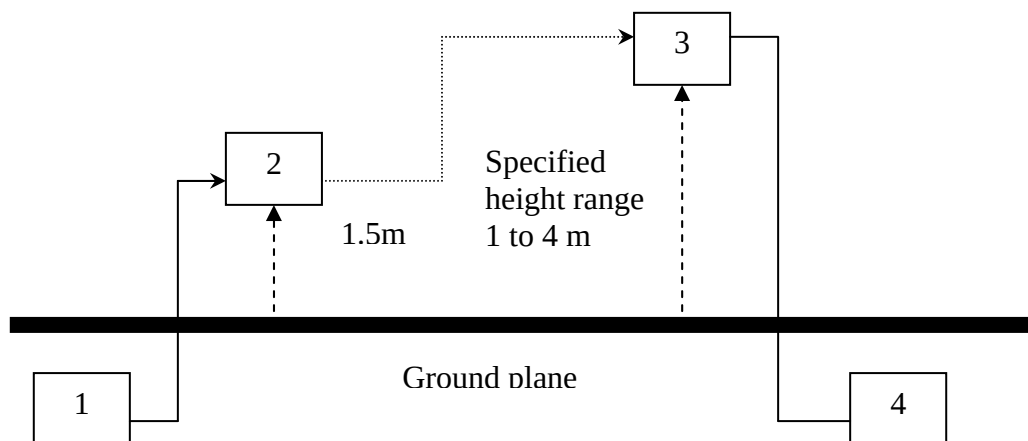
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS

General :

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



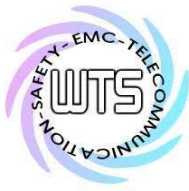
- 1) Signal generator ;
- 2) Substitution antenna ;
- 3) Test antenna ;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

Calibration :

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

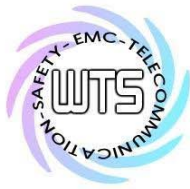
With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver . The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing :

Now the test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

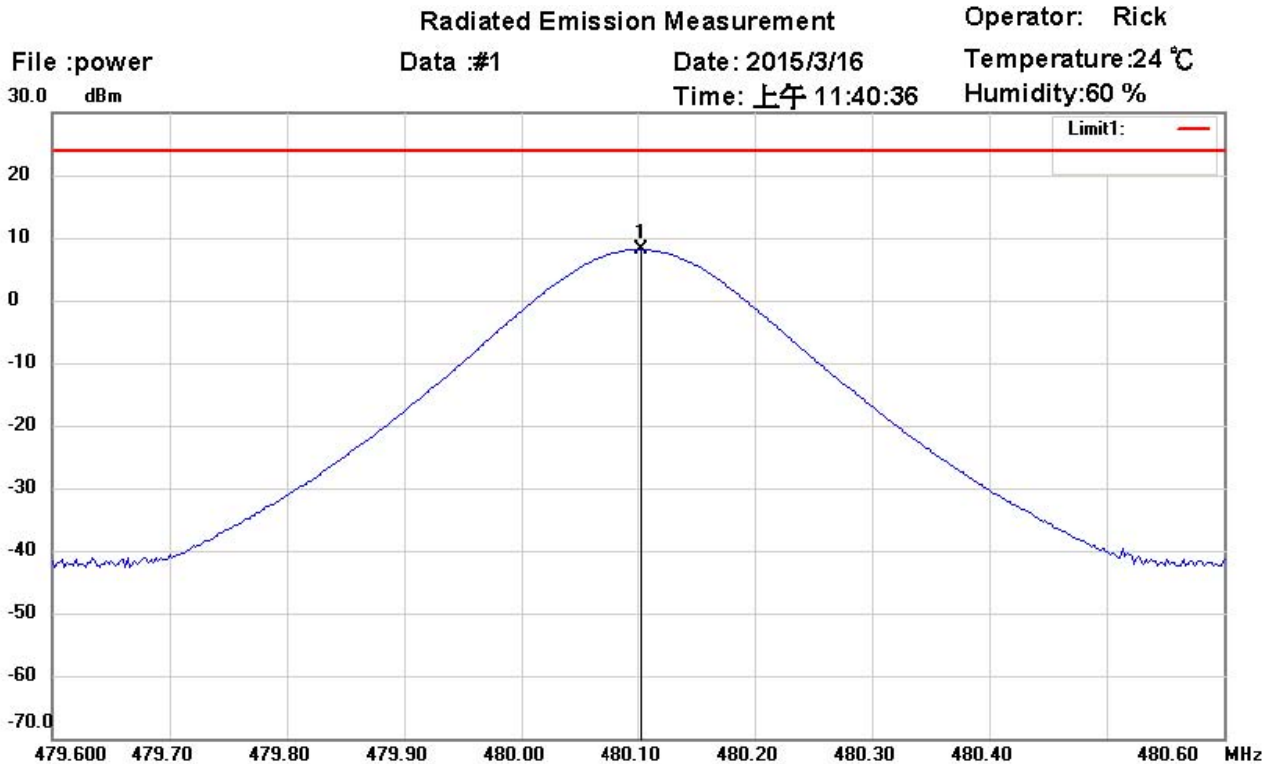


Worldwide Testing Services(Taiwan) Co., Ltd.

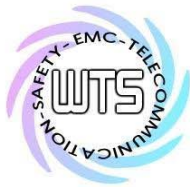
Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

5.2 Test results



Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	480.1030	-18.65	peak	26.77	8.12	24.00	150	310	-15.88	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

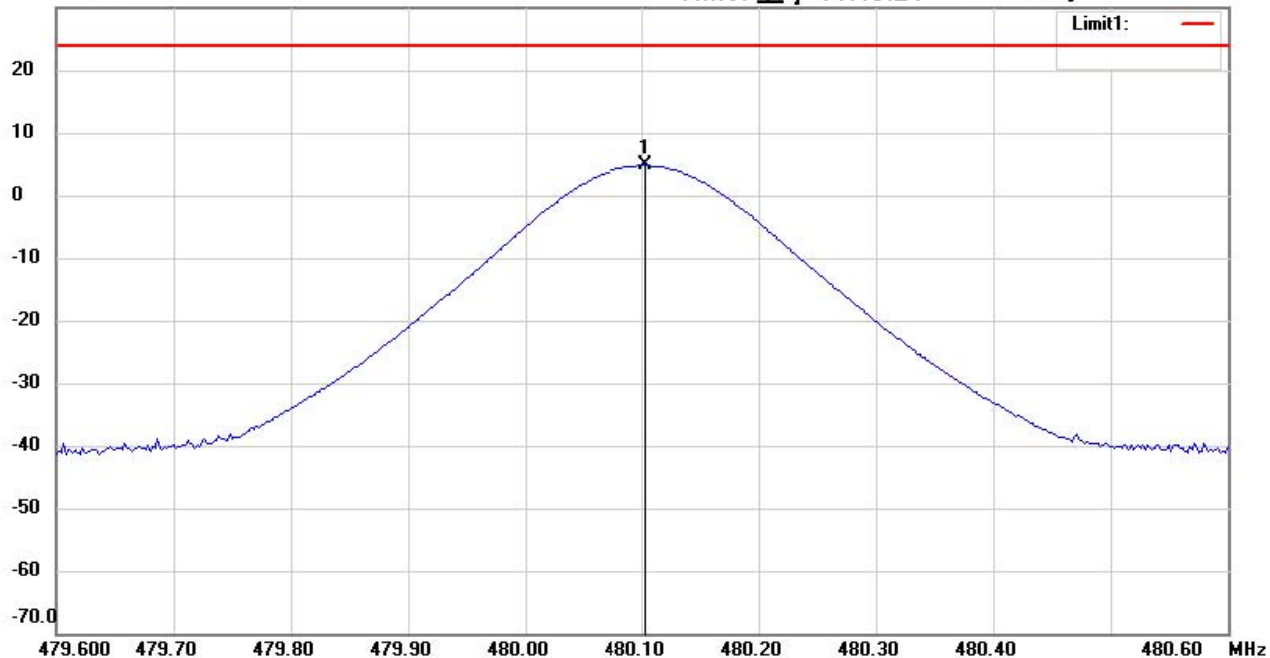
Date: 2015/3/16

Temperature:24 °C

30.0 dBm

Time: 上午 11:46:24

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Vertical*

EUT : W6M21405-14186

Power : 3.7Vdc

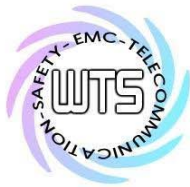
M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	480.1030	-23.09	peak	27.90	4.81	24.00	150	200	-19.19	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power
30.0 dBm

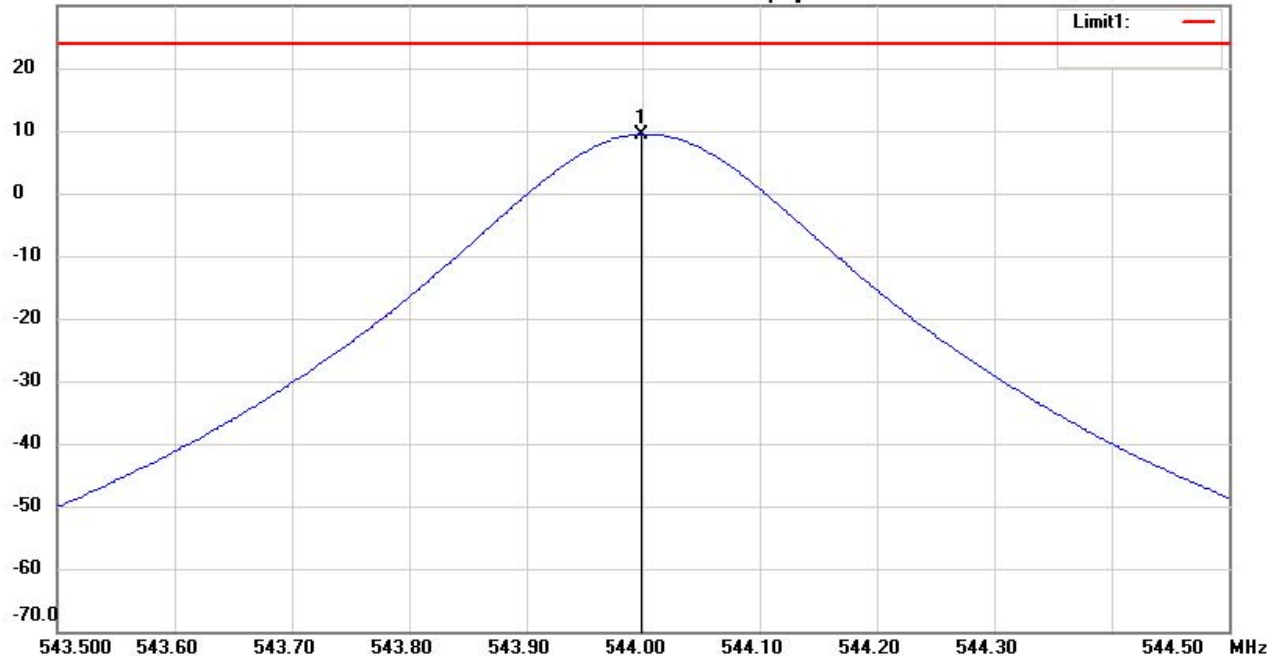
Data :#1

Date: 2015/3/16

Temperature:24 °C

Time: 下午 02:44:28

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

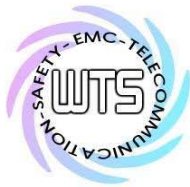
M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	543.9990	-17.13	peak	26.58	9.45	24.00	150	170	-14.55	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

Date: 2015/3/16

Temperature:24 °C

30.0 dBm

Time: 下午 02:47:05

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

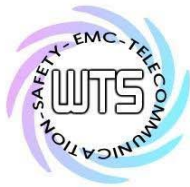
M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	543.9990	-35.20	peak	29.44	-5.76	24.00	150	210	-29.76	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#1

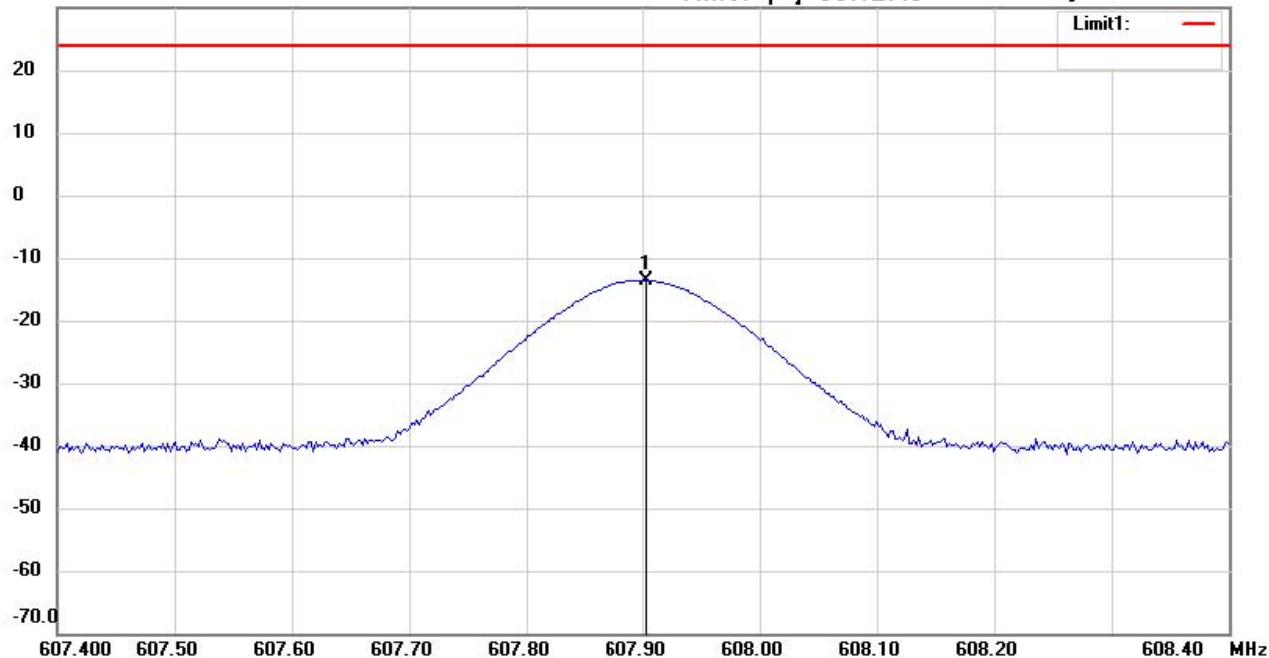
Date: 2015/3/16

Temperature:24 °C

30.0 dBm

Time: 下午 03:12:40

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

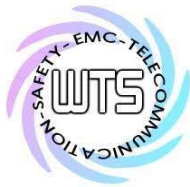
M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	607.9030	-43.20	peak	29.62	-13.58	24.00	150	70	-37.58	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#2

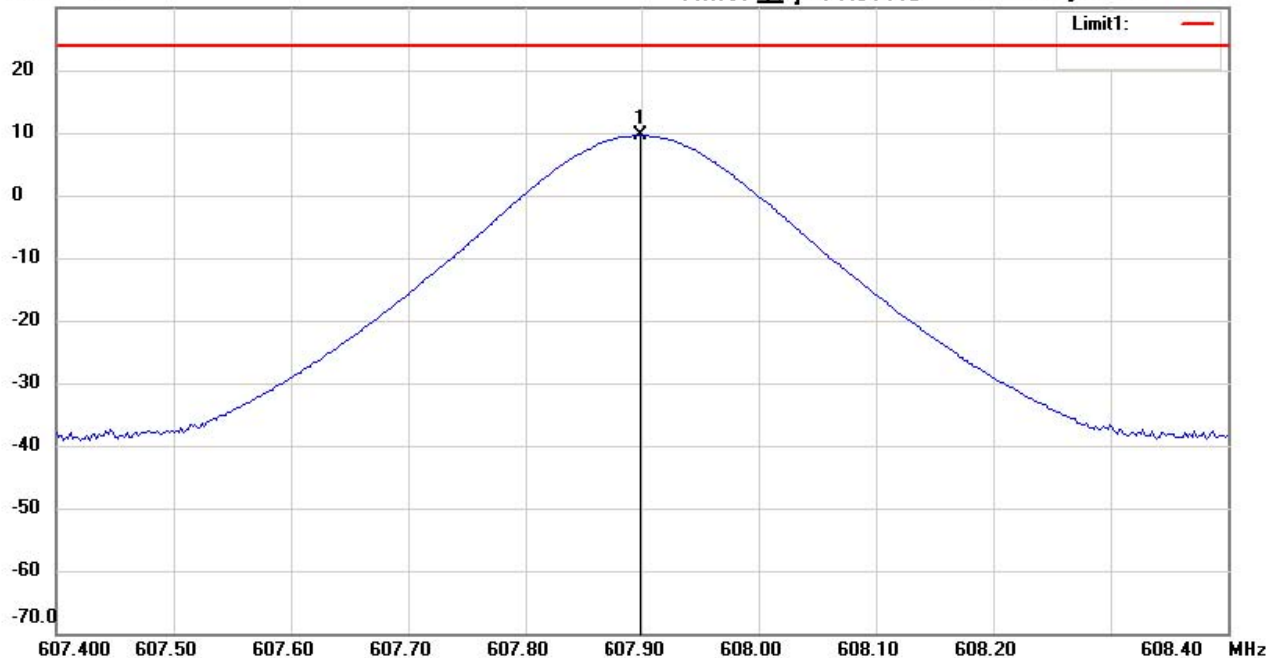
Date: 2015/3/16

Temperature:24 °C

30.0 dBm

Time: 上午 11:57:19

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Vertical*

EUT : W6M21405-14186

Power : 3.7Vdc

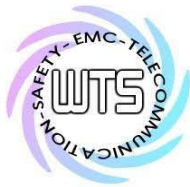
M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	607.8990	-20.10	peak	29.65	9.55	24.00	150	100	-14.45	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

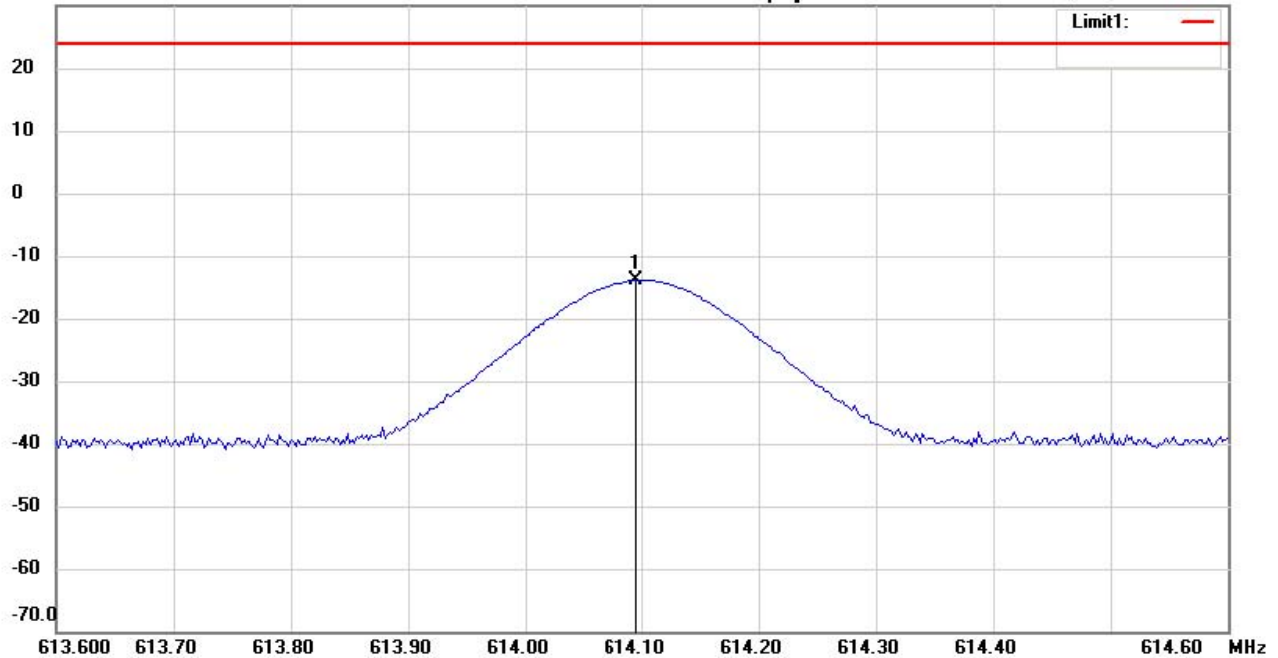
Radiated Emission Measurement

Operator: Rick
Temperature: 24 °C
Humidity: 60 %

File : power
30.0 dBm

Data : #1

Date: 2015/3/16
Time: 下午 03:15:43



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

EUT : W6M21405-14186

M/N:

Test Mode : Tx 614.1MHz

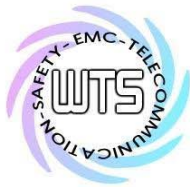
Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	614.0950	-43.97	peak	30.10	-13.87	24.00	150	170	-37.87	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power
30.0 dBm

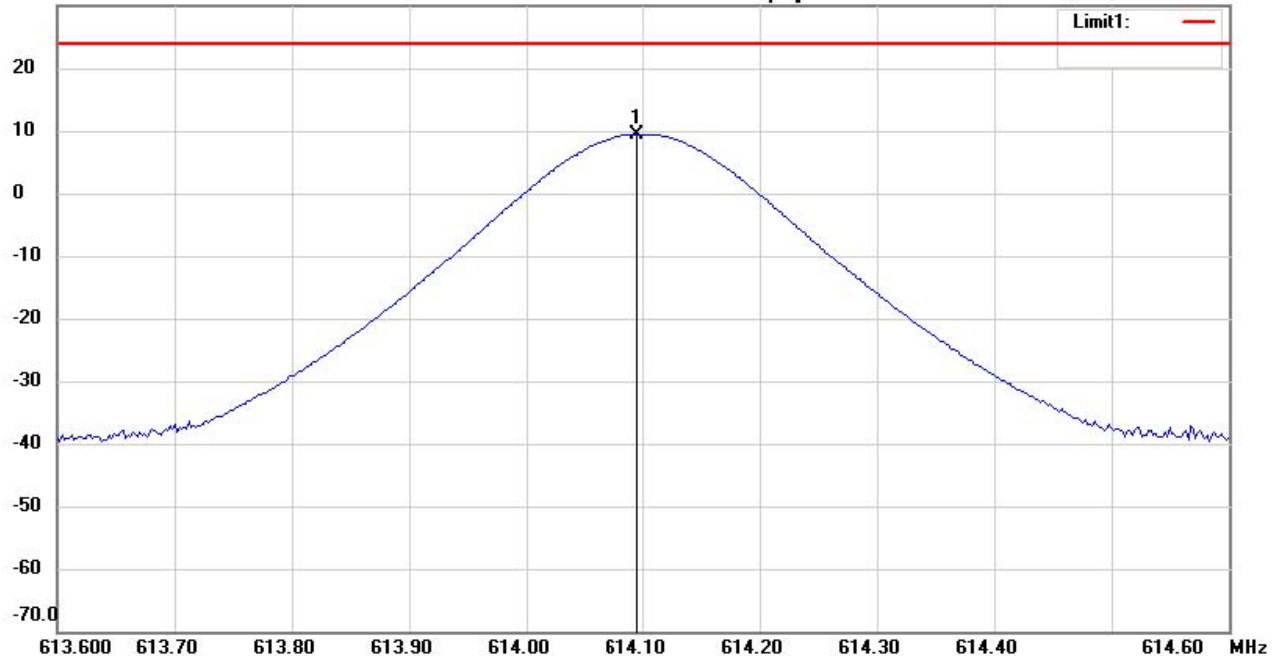
Data :#2

Date: 2015/3/16

Temperature:24 °C

Time: 下午 12:00:02

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Vertical*

EUT : W6M21405-14186

Power : 3.7Vdc

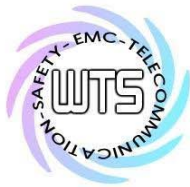
M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	614.0950	-20.19	peak	29.68	9.49	24.00	150	240	-14.51	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power

Data :#1

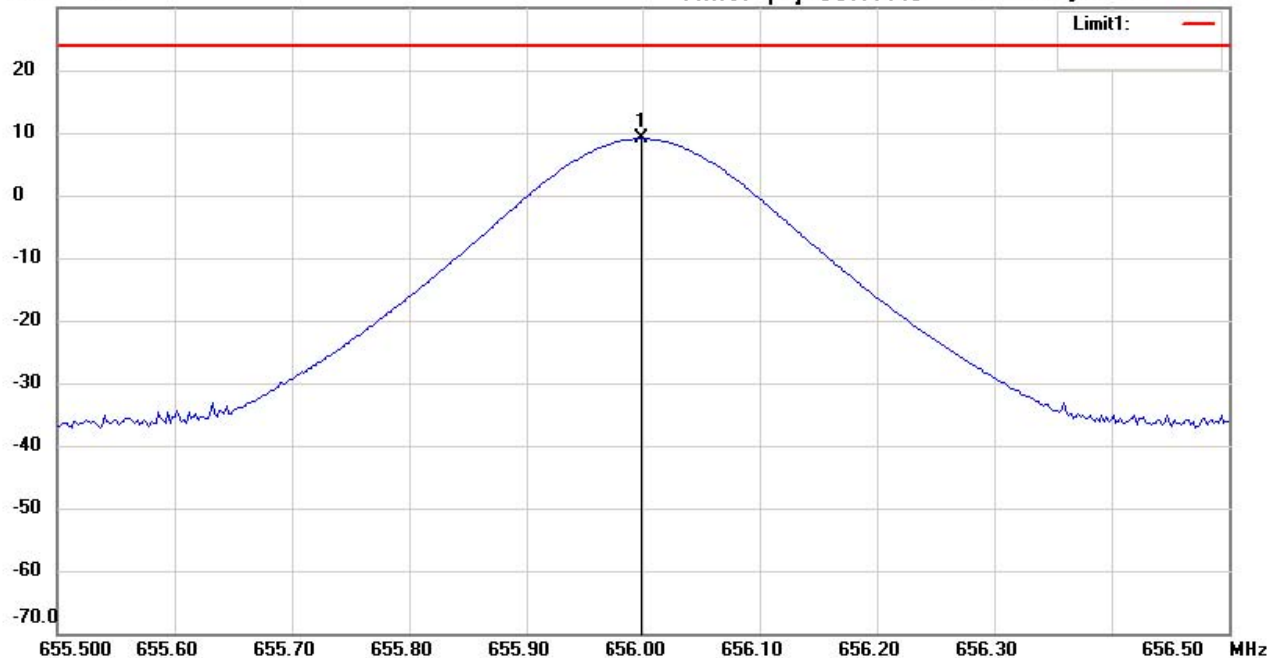
Date: 2015/3/16

Temperature:24 °C

30.0 dBm

Time: 下午 03:17:45

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

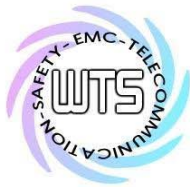
M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	655.9990	-23.78	peak	32.85	9.07	24.00	150	170	-14.93	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power
30.0 dBm

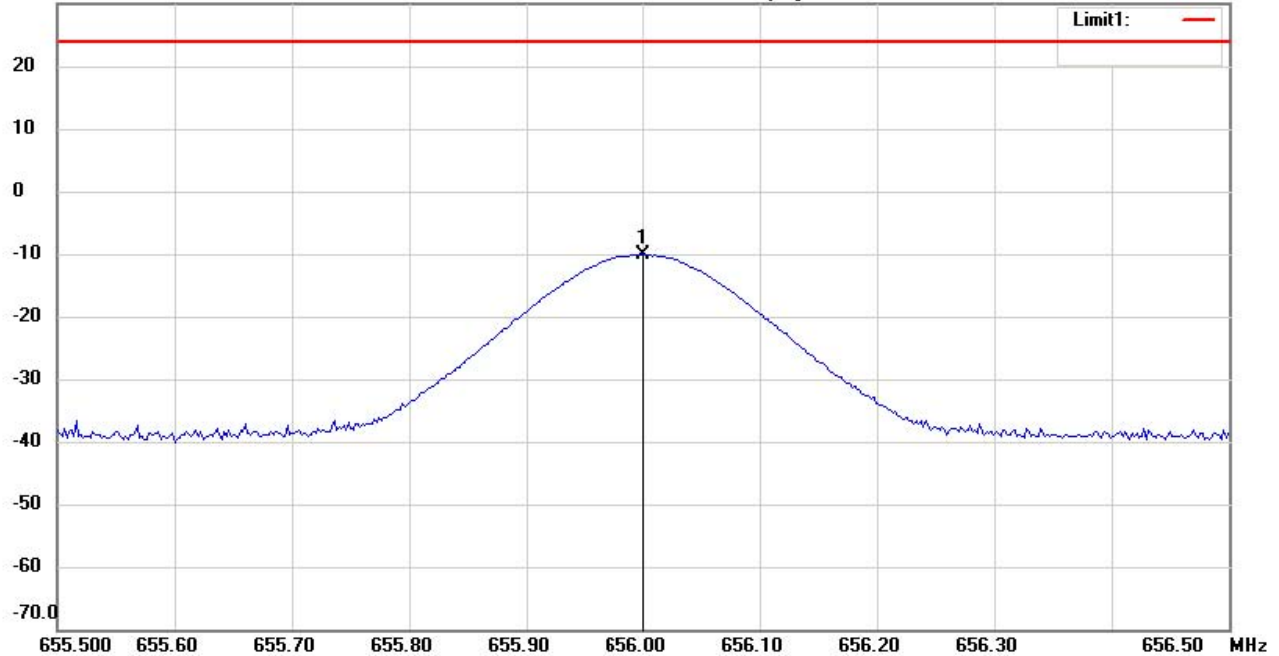
Data :#2

Date: 2015/3/16

Temperature:24 °C

Time: 下午 03:19:26

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Vertical*

EUT : W6M21405-14186

Power : 3.7Vdc

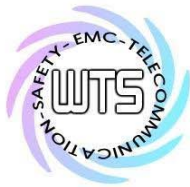
M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	656.0010	-40.22	peak	30.14	-10.08	24.00	150	200	-34.08	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power
30.0 dBm

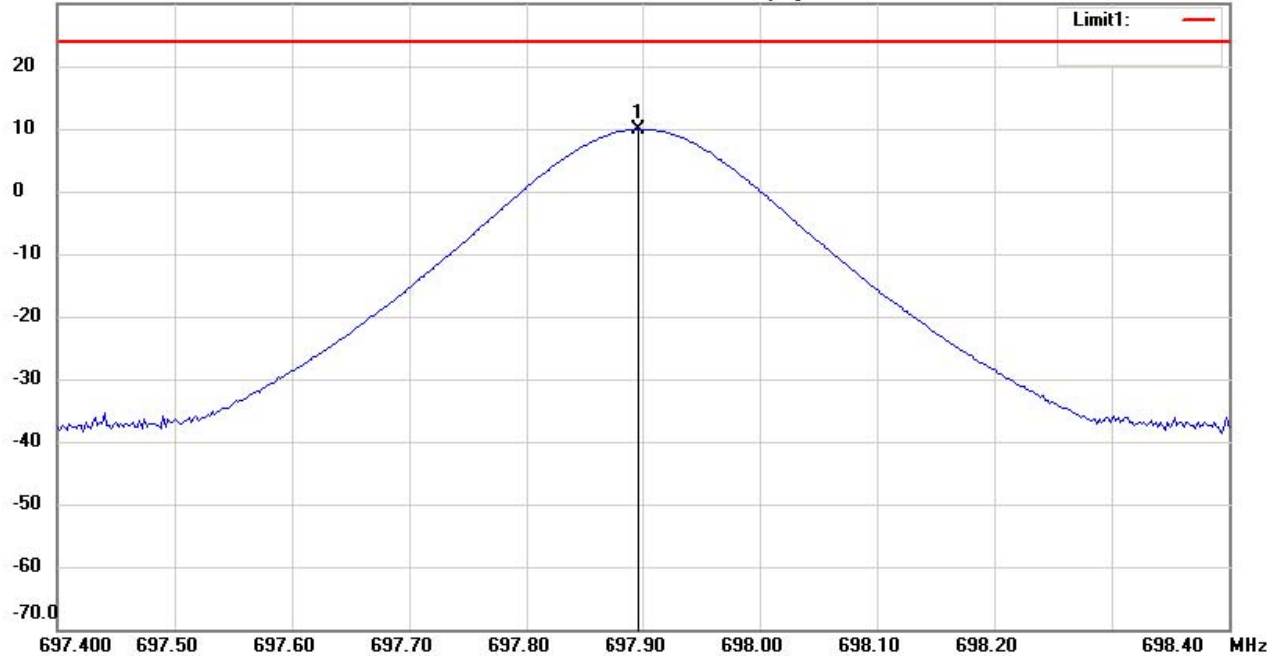
Data :#1

Date: 2015/3/16

Temperature:24 °C

Time: 下午 03:21:53

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

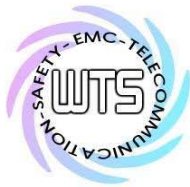
M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	697.8970	-22.54	peak	32.42	9.88	24.00	150	260	-14.12	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

Radiated Emission Measurement

Operator: Rick

File :power
30.0 dBm

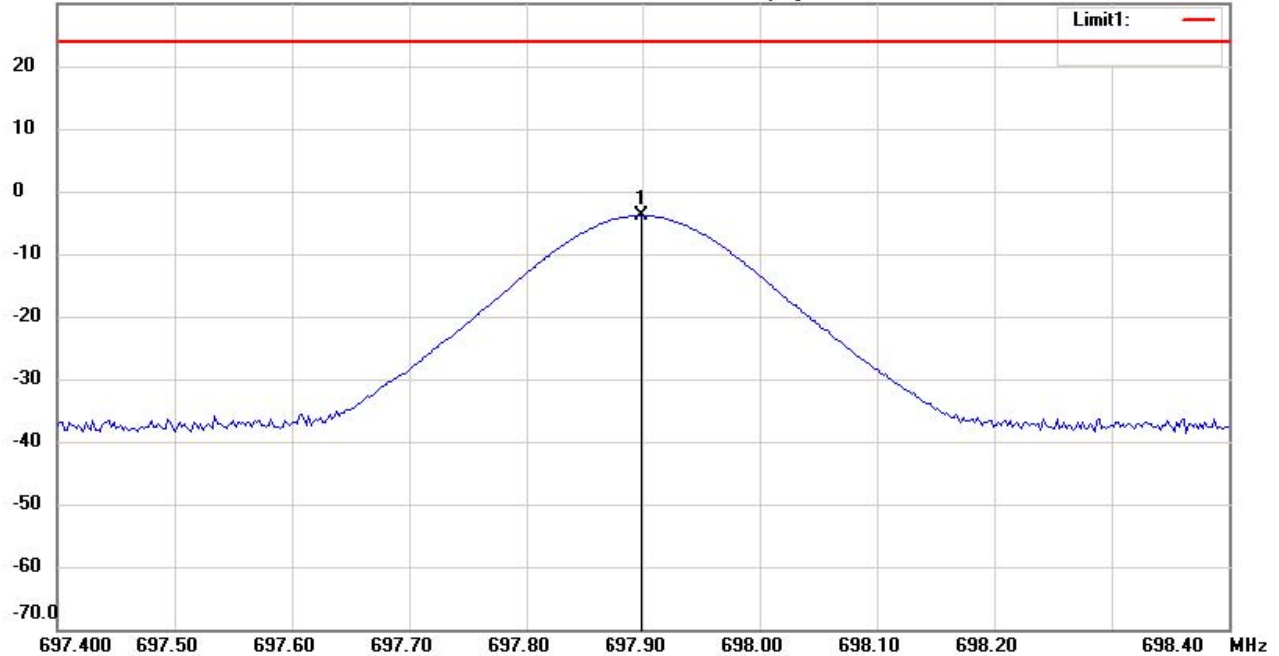
Data :#2

Date: 2015/3/16

Temperature:24 °C

Time: 下午 03:23:31

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 power(470-608 and 614-698)

Polarization: *Vertical*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

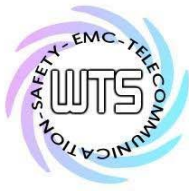
Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	697.8990	-35.91	peak	32.02	-3.89	24.00	150	200	-27.89	

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 042, ETSTW-RE 043

Limit According to FCC PART 74.861(e)(1):

The output power limit: 250 mW (24 dBm)



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

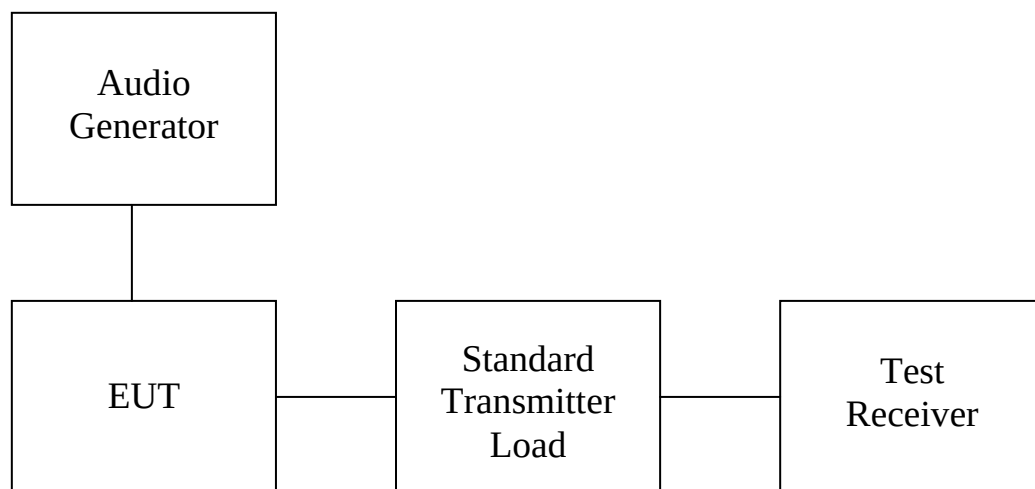
6 Modulation Deviation , FCC 2.1047 (b) ; 74.861(e)

6.1 Test procedure

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

The audio signal generator is connected to the audio input of the EUT with its full rating.

The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

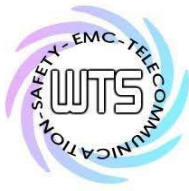


6.2 Test results

Limits : ± 75 kHz

Test equipment used: ETSTW-RE 072, ETSTW-RE 055, ETSTW-RE 050

Explanation: Please see attached diagrams as appendix.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

7 Audio frequency response , FCC 2.1047 (a)

7.1 Test procedure

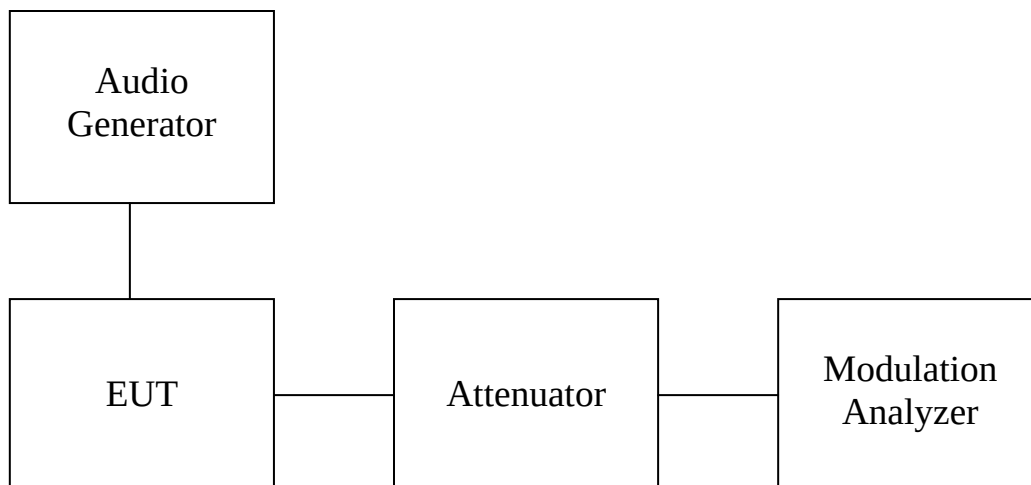
The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

The frequency response of the audio modulation part is measured over a frequency range of 100 Hz to 5000 Hz.

For 1000 Hz tone reference signal the audio generator level is adjusted to get 20% of the rated system deviation.

The deviations obtained over the frequency range from 100 Hz to 5000 Hz are recorded and compared with the reference deviation as follows :

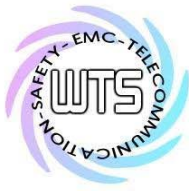
$$\text{Audio Frequency Response} = 20 \log [\text{DEV}_{\text{Freq}} / \text{DEV}_{\text{ref}}].$$



7.2 Test results

Explanation: Please see attached diagrams as appendix.

Test equipment used: ETSTW-RE 072



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

8 Occupied Bandwidth/Emission Mask, FCC 2.1049 (c) ; 74.861 (e)(5)

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

8.1 Test procedure

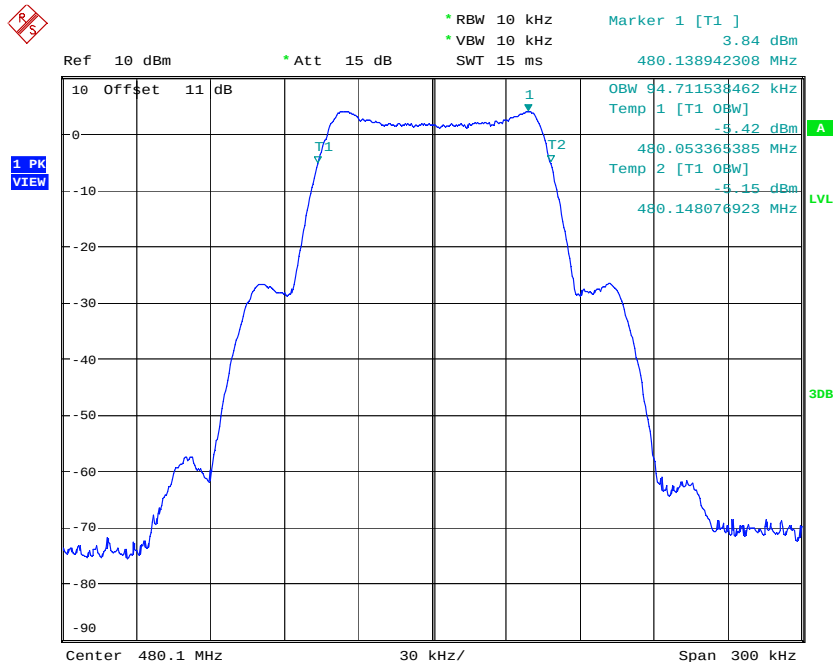
The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

The near the carrier emissions are measured by normal power measurement function of the analyzer.

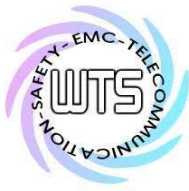
8.2 Test Results

Occupied Bandwidth

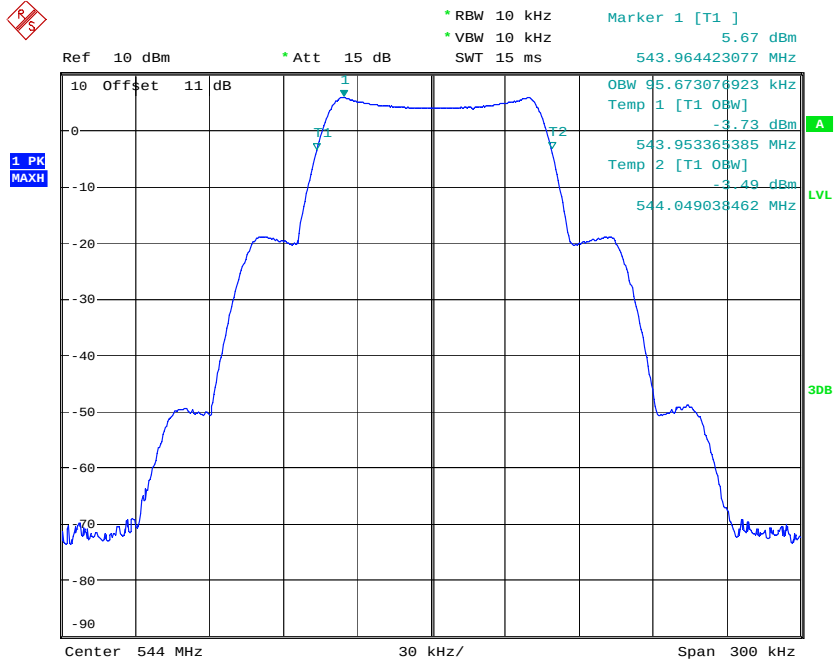


OCCUPIED BANDWIDTH 480.1MHz 1KHz

Date: 20.MAR.2015 12:04:44

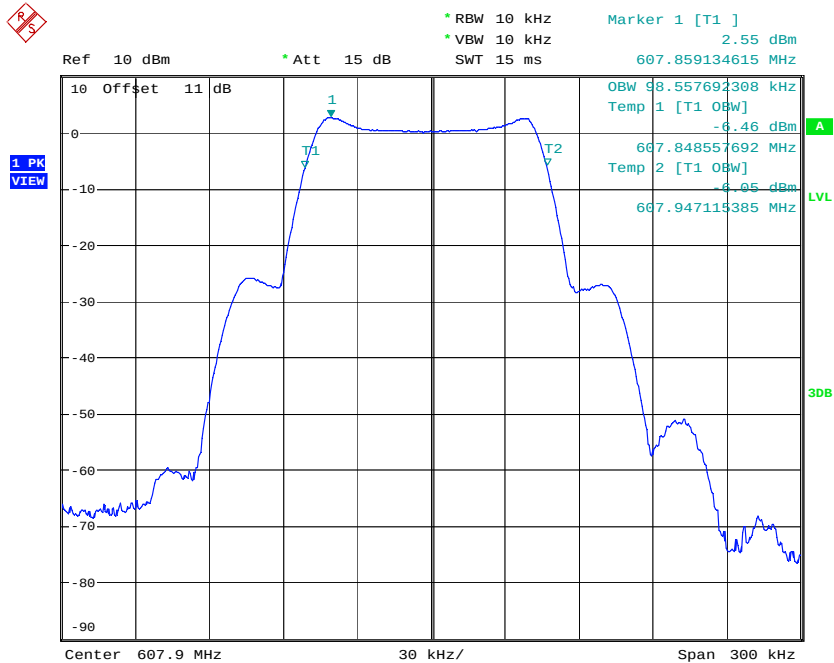


Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



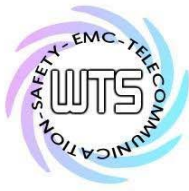
OCCUPIED BANDWIDTH 544.MHz 1KHz

Date: 20.MAR.2015 12:03:13

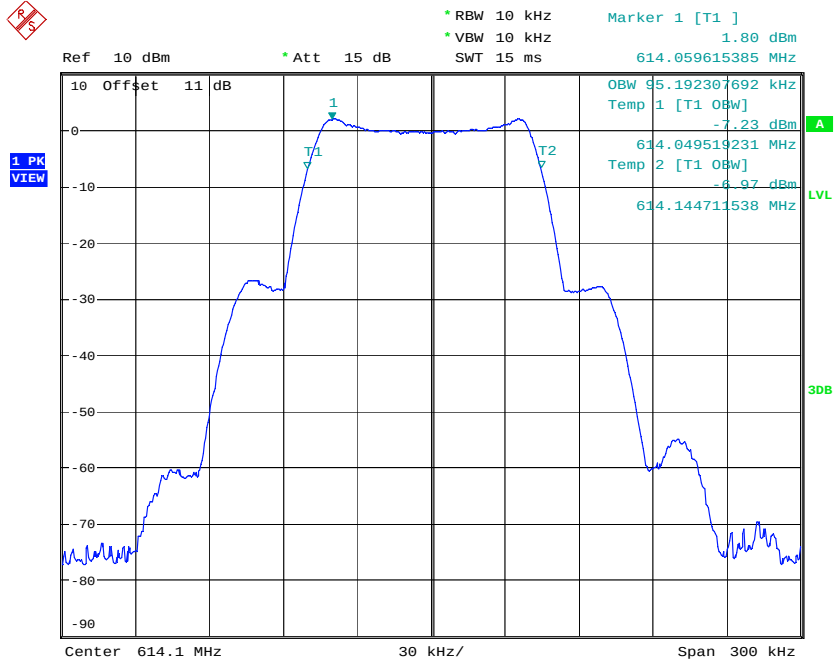


OCCUPIED BANDWIDTH 607.9MHz 1KHz

Date: 20.MAR.2015 11:52:27

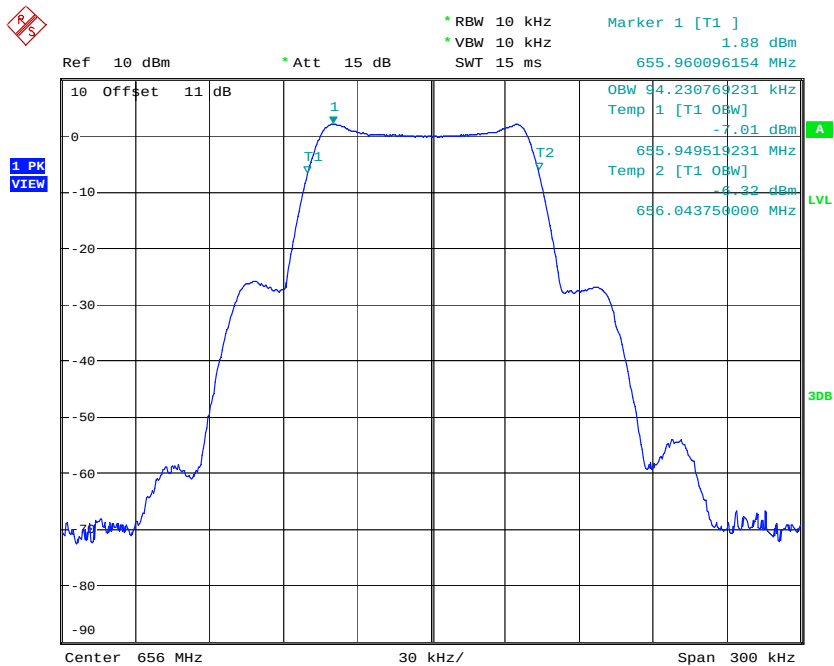


Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



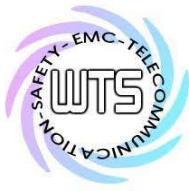
OCCUPIED BANDWIDTH 614.1MHz 1KHz

Date: 20.MAR.2015 11:58:15

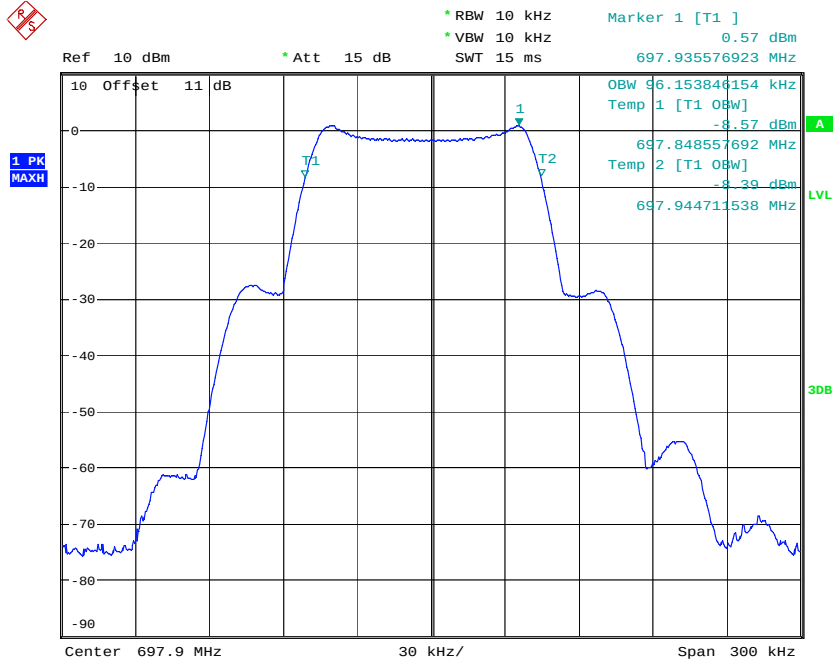


OCCUPIED BANDWIDTH 656MHz 1KHz

Date: 20.MAR.2015 11:48:40

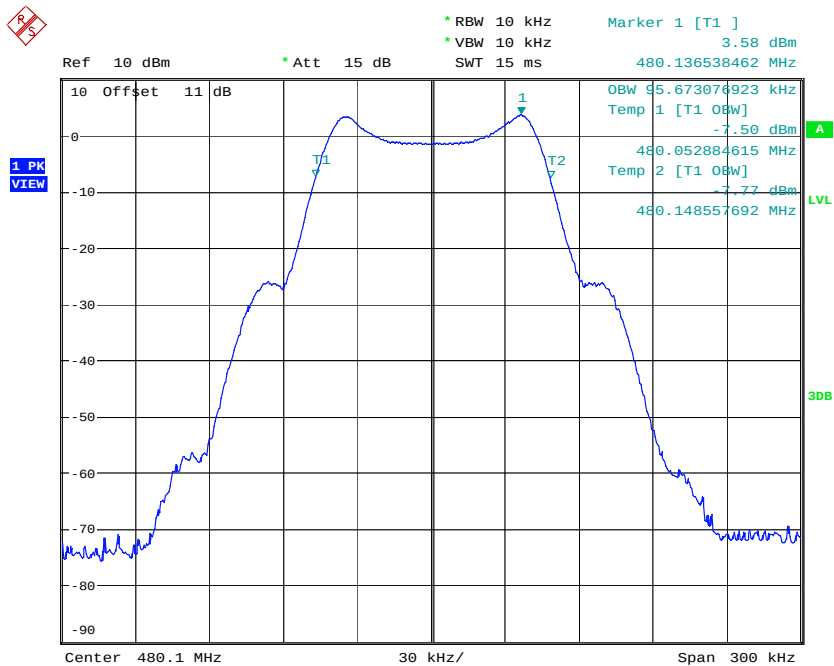


Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



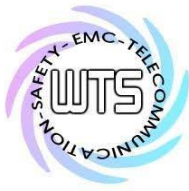
OCCUPIED BANDWIDTH 697.9MHz 1KHz

Date: 20.MAR.2015 11:44:04

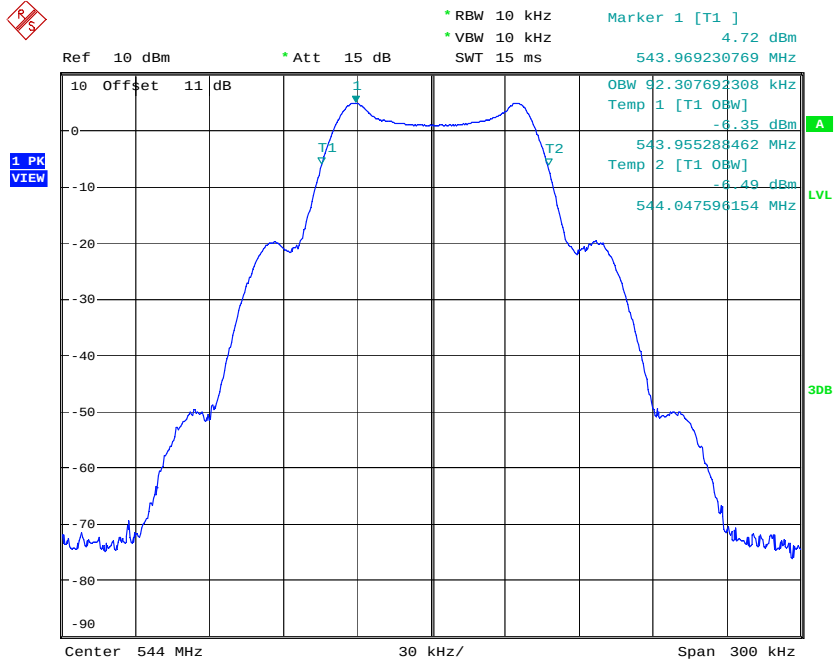


OCCUPIED BANDWIDTH 480.1MHz 2.5KHz

Date: 20.MAR.2015 12:05:39

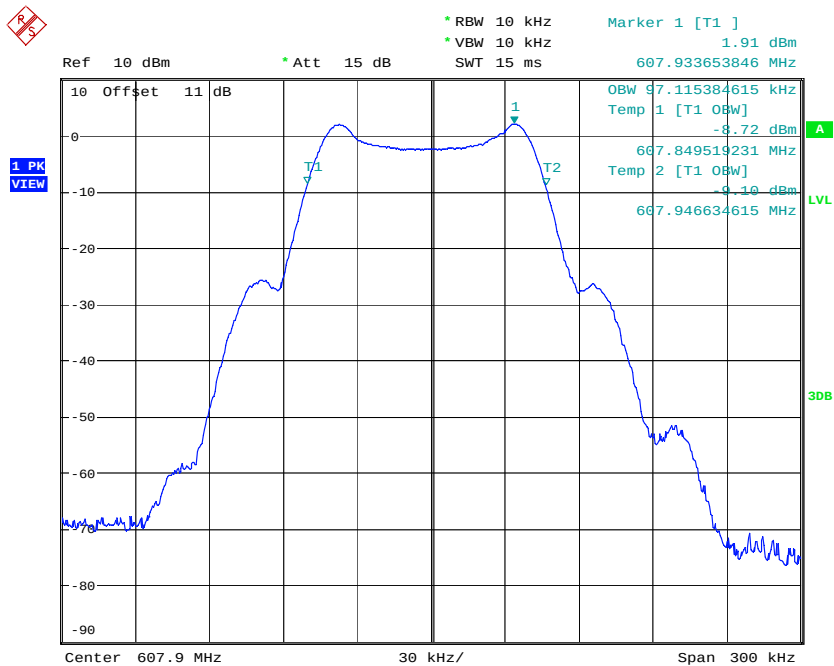


Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



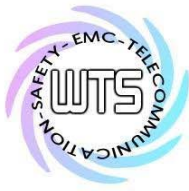
OCCUPIED BANDWIDTH 544.MHz 2.5KHz

Date: 20.MAR.2015 12:02:05

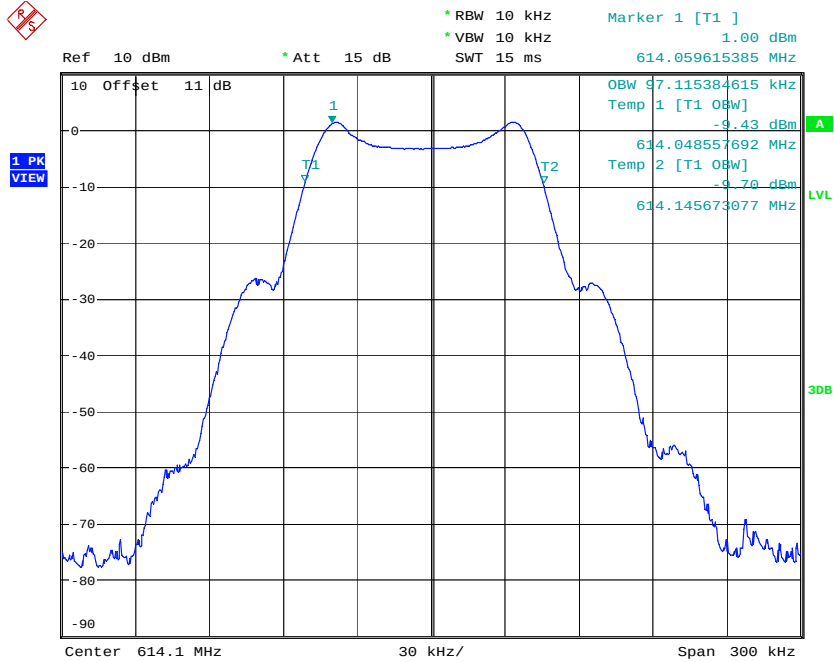


OCCUPIED BANDWIDTH 607.9MHz 2.5KHz

Date: 20.MAR.2015 11:51:06

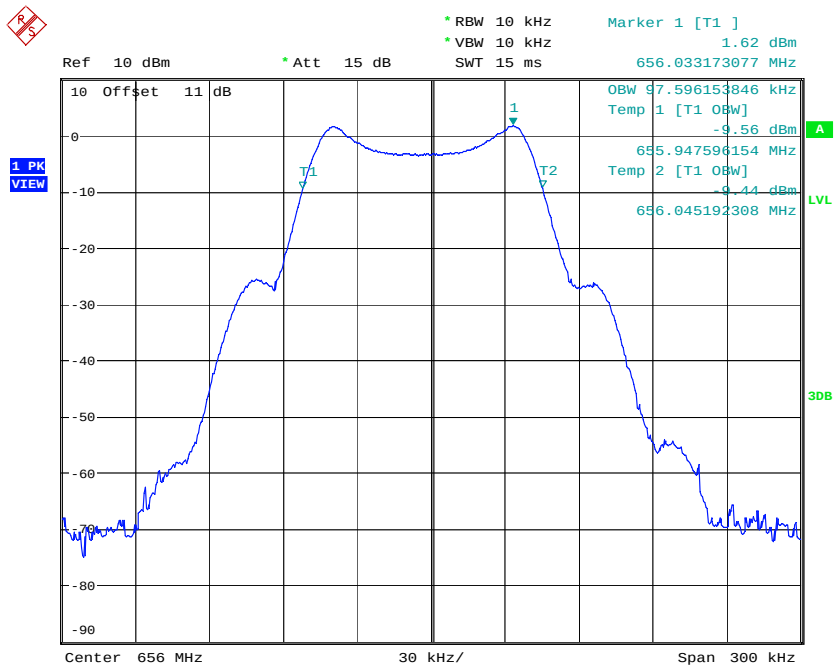


Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



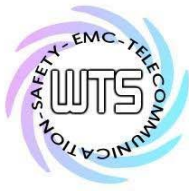
OCCUPIED BANDWIDTH 614.1MHz 2.5KHz

Date: 20.MAR.2015 11:59:32

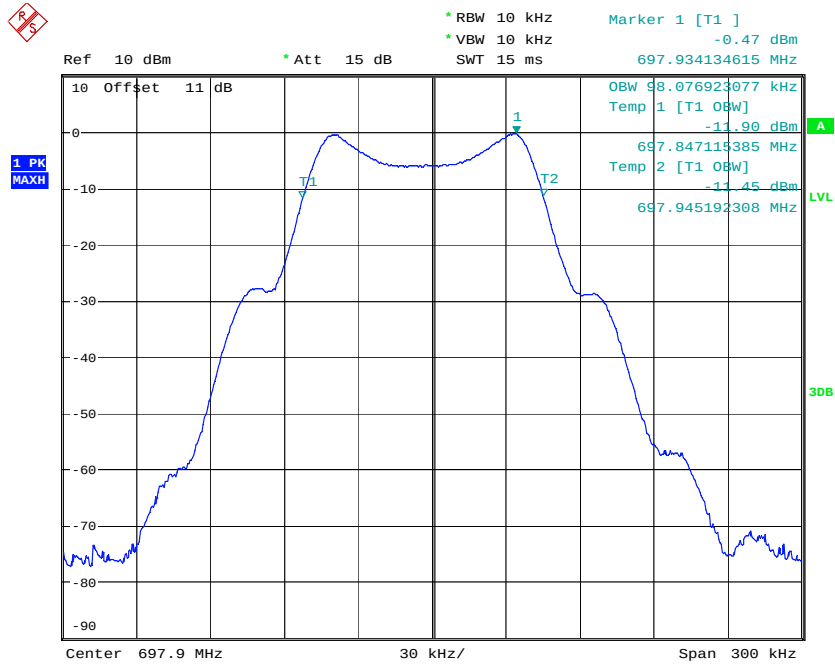


OCCUPIED BANDWIDTH 656MHz 2.5KHz

Date: 20.MAR.2015 11:49:25



Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

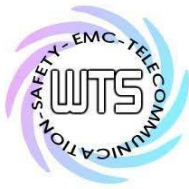


OCCUPIED BANDWIDTH 697.9MHz 2.5KHz
Date: 20.MAR.2015 11:45:44

Limit

The operating bandwidth shall not exceed 200 kHz.

Test equipment used: ETSTW-RE 055 , ETSTW-RE 072, ETSTW-RE 050



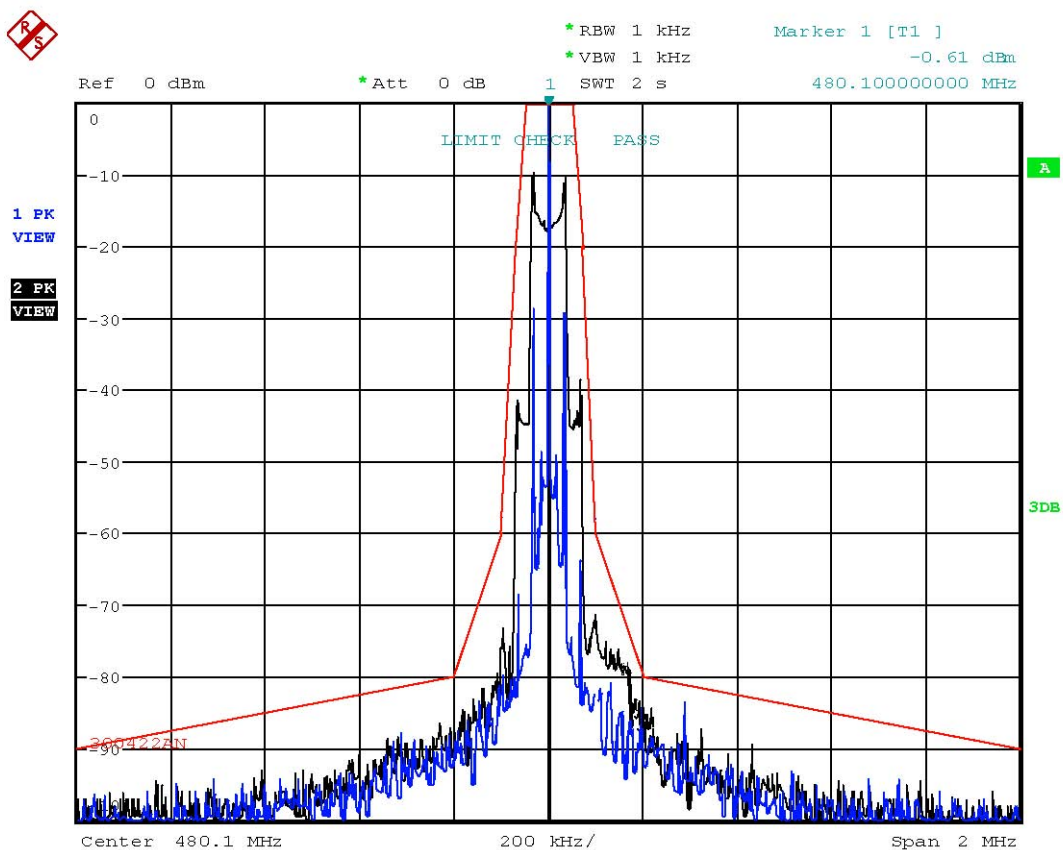
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

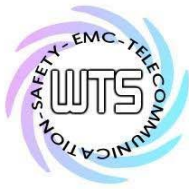
Emission Mask

Analog emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in Section 8.3.1.2 of the European Telecommunications Institute Standard ETSI EN 300 422-1 v1.4.2 (2011-08). Digital emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in Section 8.3.2.2 (Figure 4) of the European Telecommunications Institute Standard ETSI EN 300 422-1 v1.4.2 (2011-08). Beyond one megahertz below and above the carrier frequency, emissions shall be attenuated 90 dB below the level of the unmodulated carrier. The requirements of this paragraph (e)(7) shall not apply to applications for certification of equipment in these bands until nine months after release of the Commission's Channel Reassignment Public Notice, as defined in §73.3700(a)(2) of this chapter.



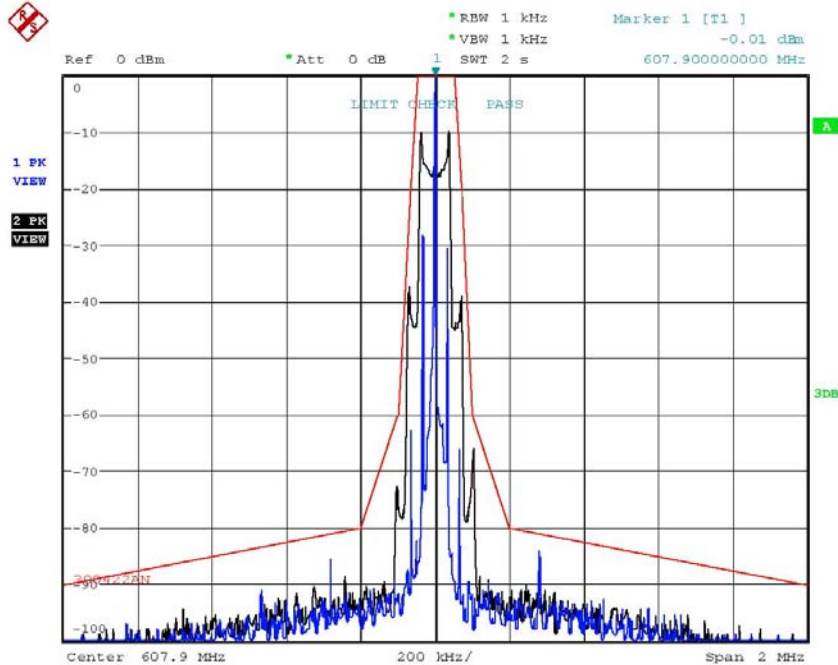
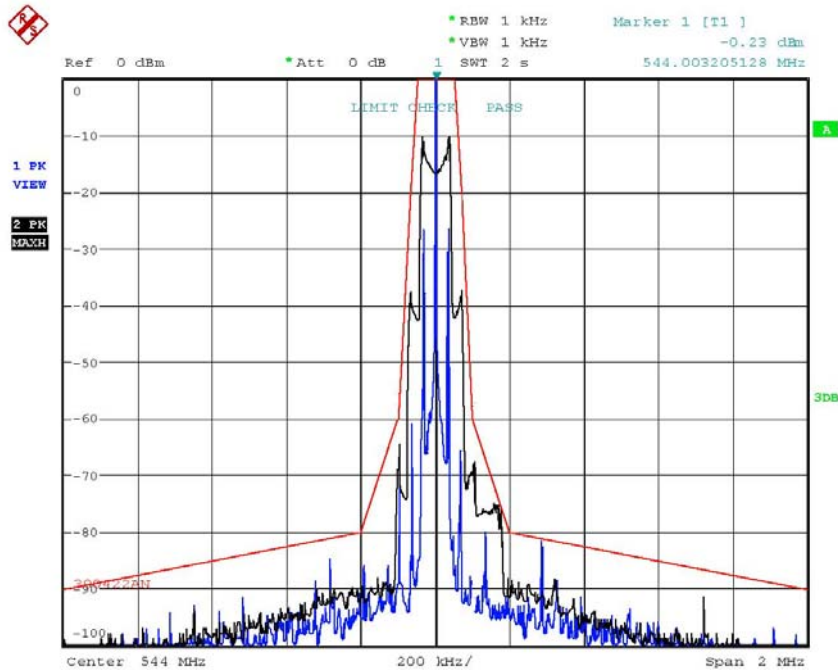
NECESSARY BANDWIDTH 480.1MHz

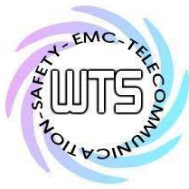
Date: 3.MAY.2016 13:59:48



Worldwide Testing Services(Taiwan) Co., Ltd.

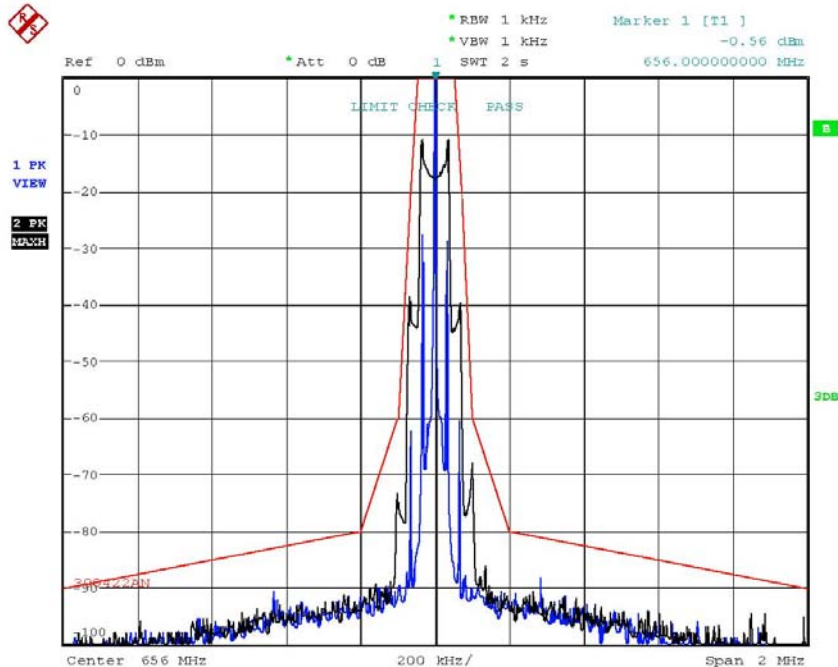
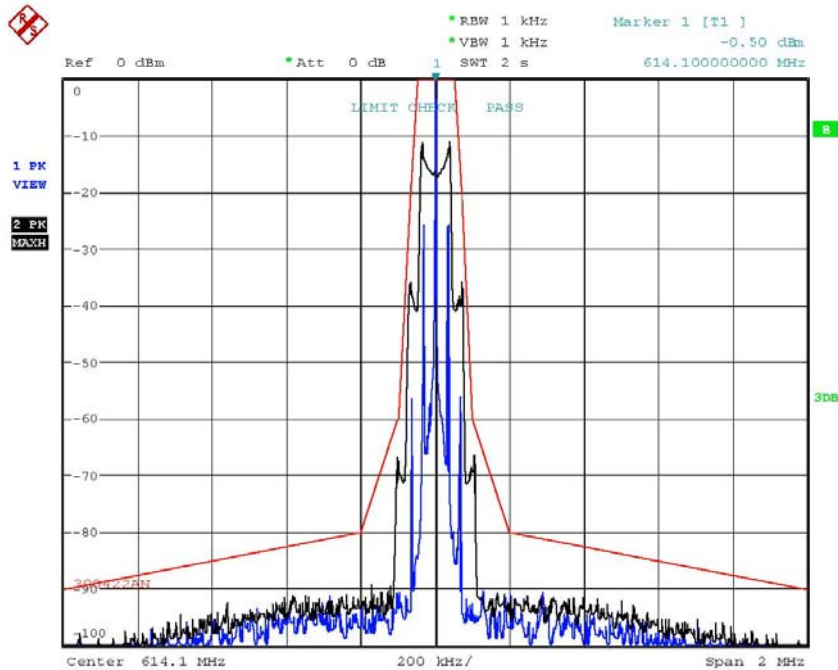
Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



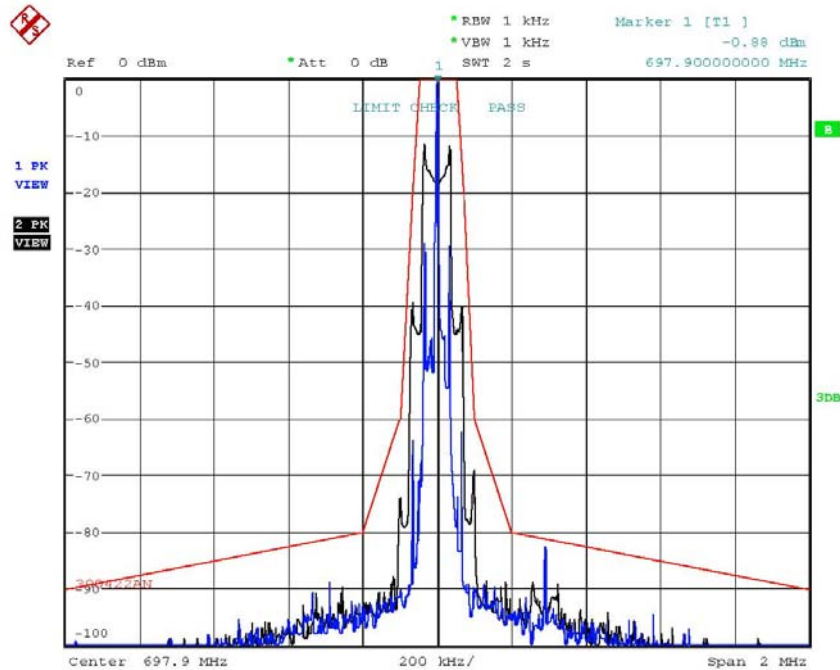


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



NECESSARY BANDWIDTH 697.9MHz
Date: 3.MAY.2016 13:42:17

LIMIT acc. Subclause 8.3.1.2

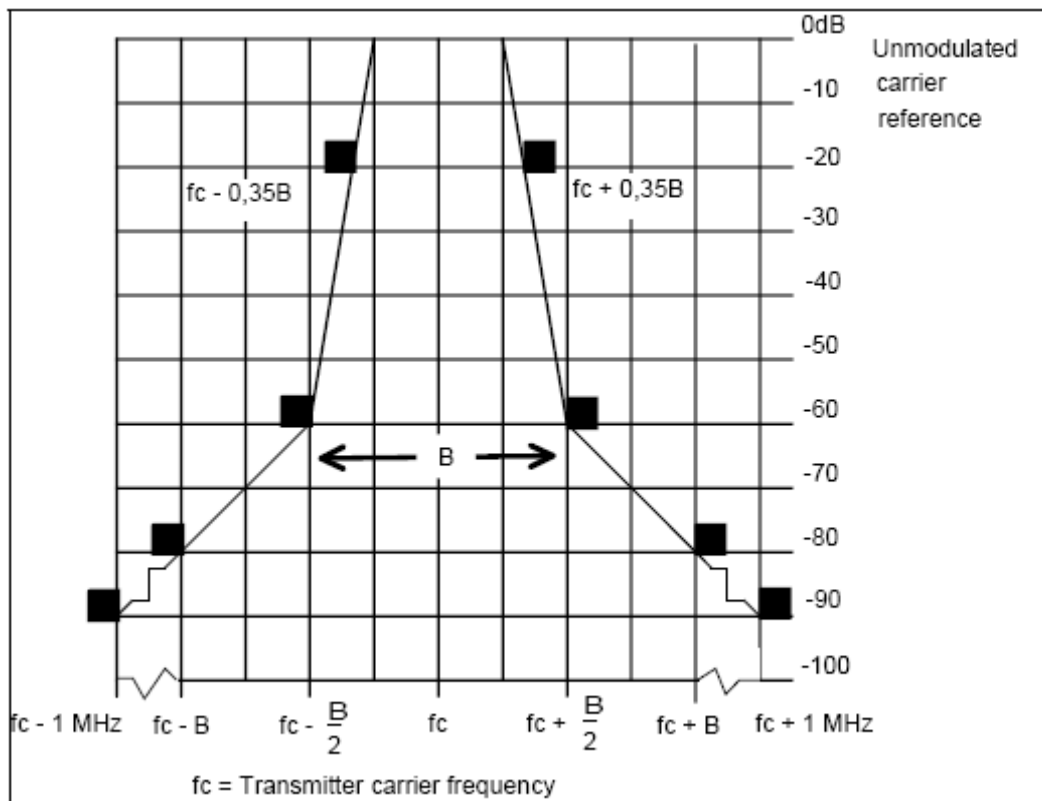


Figure 1: Spectrum mask for analogue systems in all bands

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

LIMIT acc. Subclause 8.3.2.2

The transmitter output spectrum shall be within the mask defined in figure 2. This mask may also be used for both analogue and digital Assistive Listening Devices.

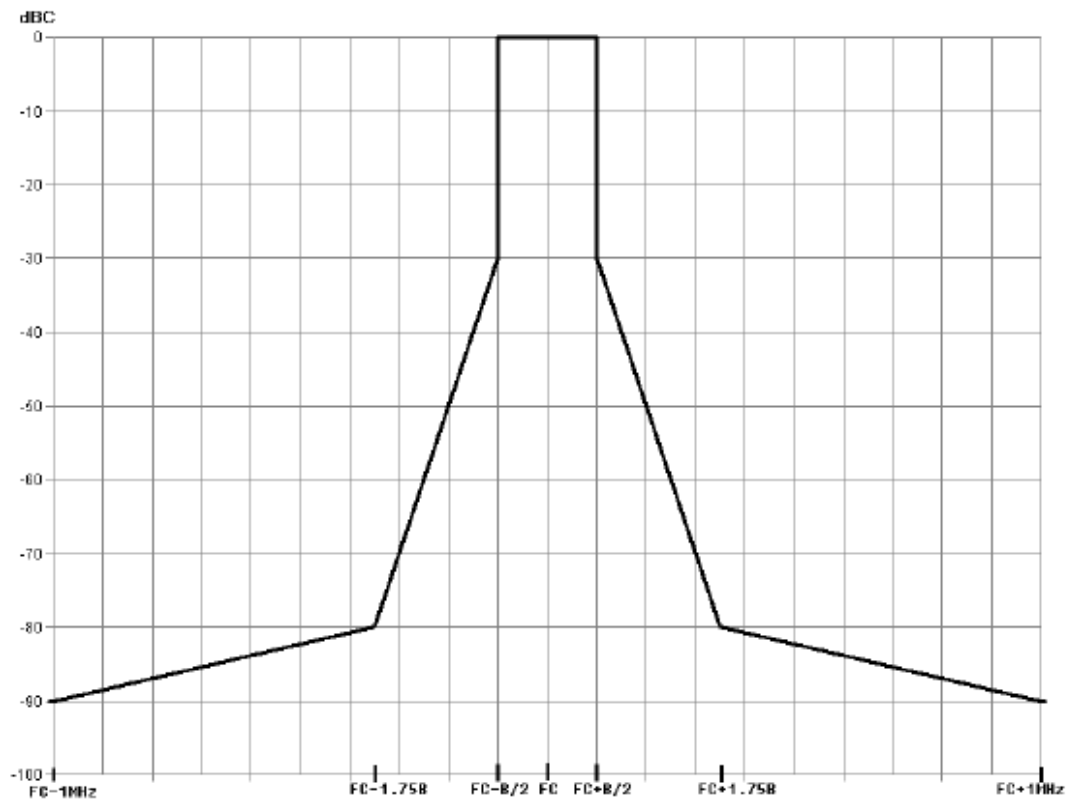
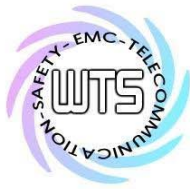


Figure 2: Spectrum mask for digital systems below 1 GHz



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

9 Spurious Emissions at Antenna Terminals FCC2.1051 ; 74.861 (e)

9.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and high-pass filter.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

9.2 Test Results

Summary table with conducted data of the test plots for Carrier Test Frequency

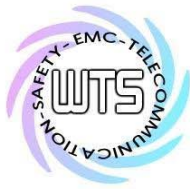
Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--
--	--	--	--

9.3 Limit

Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	9.88 dBm
Required attenuation	$43 + 10 \log_{10} 0.009727 \text{ W} = 22.88 \text{ dB}$
Maximum transmitter output power	9.88 dBm
<u>Required attenuation</u>	<u>22.88dB</u>
Compliance limit	-13 dBm



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

10 Radiated Spurious Emission , FCC 2.1053 ; 74.861 (e)

10.1 Test procedure

The EUT was positioned on a non-conductive turntable , 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission have been carried out with the ESK-Software from Rode & Schwarz. The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

Spurious emission limits near the carrier are defined by a emission mask. This measurements are done in conducted mode.

10.2 Test Results

The measurements of the spurious emission at the upper , center and lower channel.

The measurement diagrams show that all significant spurs are well below the limit line.

Summary table with radiated data of the test plots for Carrier Test Frequency

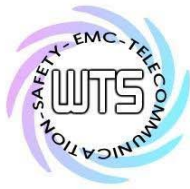
Model:	--	Date:	--				
Mode:	--	Temperature:	--	°C	Engineer:	--	
Polarization:	Horizontal	Humidity:	--	%			
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Note:

1. Correction Factor = Antenna Gain + Cable Loss + Amplifier Gain
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. All not in the table noted test results are more than 20 dB below the relevant limits.
4. Measurement uncertainty: 30-200MHz : ± 2.11 dB, 200-1000MHz : ± 2.09 dB, 1-18GHz : ± 2.71 dB
Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
5. See the attached diagram as appendix.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

10.3 Explanation of test result

The measurements of the spurious emissions at the equipment output terminals were performed pursuant to the test procedure above in order to verify that any emissions are below the limits given by § 74.861 (6).

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.

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

10.4 Limits

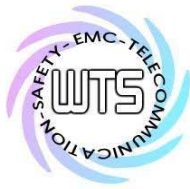
Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	9.88 dBm
Required attenuation	$43 + 10 \log_{10} 0.009727 \text{ W} = 22.88 \text{ dB}$
Maximum transmitter output power	9.88 dBm
<u>Required attenuation</u>	<u>22.88 dB</u>
Compliance limit	-13 dBm

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 030,
ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

Explanation : see attached diagrams in appendix.



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

11 Line Conducted Emission , FCC 15.207

11.1 Test procedure

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.

11.2 Test Results

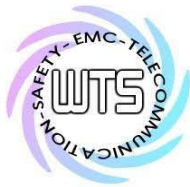
Model:	--	Date:	--					
Mode:	--	Temperature:	--	°C		Engineer:	--	
Polarization:	--	Humidity:	--	%				
Frequency (MHz)	Reading (dBuV) QP Ave.		Factor (dB) Corr.	Result (dBuV) QP Ave.		Limit (dBuV) QP Ave.		Margin (dB)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: L1

Frequency (MHz)	Reading (dBuV) QP Ave.		Factor (dB) Corr.	Result (dBuV) QP Ave.		Limit (dBuV) QP Ave.		Margin (dB)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

- 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. Measurement uncertainty = ±1.41 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.
7. This test is not required because the EUT uses battery.

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



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

12 Frequency Stability vs. Temperature , FCC 2.1055 , 74.861 (e)

12.1 Test procedure

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded from the counter.

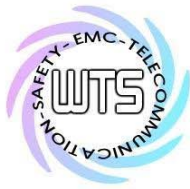
12.2 Test Results

480.1 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	480.107146	5.543	11.545
-20	480.107097	5.494	11.443
-10	480.107045	5.442	11.335
0	480.105107	3.504	7.298
+10	480.104218	2.615	5.447
+20	480.102151	0.548	1.141
+30	480.100931	-0.672	-1.400
+40	480.098490	-3.113	-6.484
+50	480.096510	-5.093	-10.608
Limit		24.005	50

544 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	544.006410	5.449	10.017
-20	544.007211	6.250	11.489
-10	544.007211	6.250	11.489
0	544.004808	3.847	7.072
+10	544.004006	3.045	5.597
+20	544.001603	0.642	1.180
+30	544.000000	-0.961	-1.767
+40	543.997596	-3.365	-6.186
+50	543.995192	-5.769	-10.605
Limit		27.200	50



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

607.9 MHz

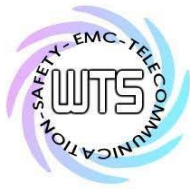
°C	Freq	Error(kHz)	Error(ppm)
-30	607.905769	5.609	9.227
-20	607.905929	5.769	9.490
-10	607.904808	4.648	7.646
0	607.902243	2.083	3.427
+10	607.900962	0.802	1.319
+20	607.900000	-0.160	-0.263
+30	607.898077	-2.083	-3.427
+40	607.897436	-2.724	-4.481
+50	607.894391	-5.769	-9.490
Limit		30.395	50

614.1 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	614.102404	4.808	7.829
-20	614.103205	5.609	9.134
-10	614.103205	5.609	9.134
0	614.101603	4.007	6.525
+10	614.100000	2.404	3.915
+20	614.097596	0.000	0.000
+30	614.095994	-1.602	-2.609
+40	614.093589	-4.007	-6.525
+50	614.091186	-6.410	-10.438
Limit		30.705	50

656 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	655.993125	-3.670	-5.595
-20	655.993685	-3.110	-4.741
-10	655.996628	-0.167	-0.254
0	655.996628	-0.167	-0.254
+10	655.996125	-0.670	-1.021
+20	655.996795	0.000	0.000
+30	655.996795	0.000	0.000
+40	655.997235	0.440	0.671
+50	655.998720	1.925	2.934
Limit		32.800	50



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

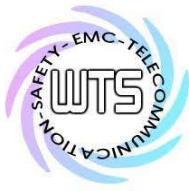
697.9 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	697.892596	-4.199	-6.017
-20	697.893589	-3.206	-4.594
-10	697.895994	-0.801	-1.148
0	697.896795	0.000	0.000
+10	697.896794	-0.001	-0.001
+20	697.896795	0.000	0.000
+30	697.896795	0.000	0.000
+40	697.895994	-0.801	-1.148
+50	697.896795	0.000	0.000
Limit		34.895	50

Limit According to FCC PART 74.861(e)(4):

The frequency tolerance of the transmitter shall be 0.005 percent.

Test equipment used: ETSTW-RE 055, ETSTW-CE 009



Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

13 Frequency Stability vs. Voltage , FCC 2.1055 (d) ; 74.861 (e)

13.1 Test procedure

An external variable DC power supply was connected to the battery terminals of the equipment under test.

For hand carried , battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

13.2 Test Results

Test voltage: 3.145 Vd.c.

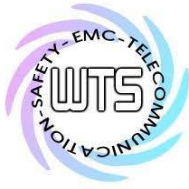
Frequency in MHz	Frequency Error (kHz)	Frequency Error (ppm)
480.101603	0.000	0.000
544.000961	0.000	0.000
607.900160	0.000	0.000
614.097596	0.000	0.000
655.996795	0.000	0.000
697.896795	0.000	0.000

Limit : $\pm 0.005\%$

Limit According to FCC PART 74.861(e)(4):

The frequency tolerance of the transmitter shall be 0.005 percent.

Test equipment used: ETSTW-RE 055



Appendix

A Photos

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission

B Measurement diagrams

1. Modulation Deviation and Audio frequency response
2. Radiation Spurious Emission

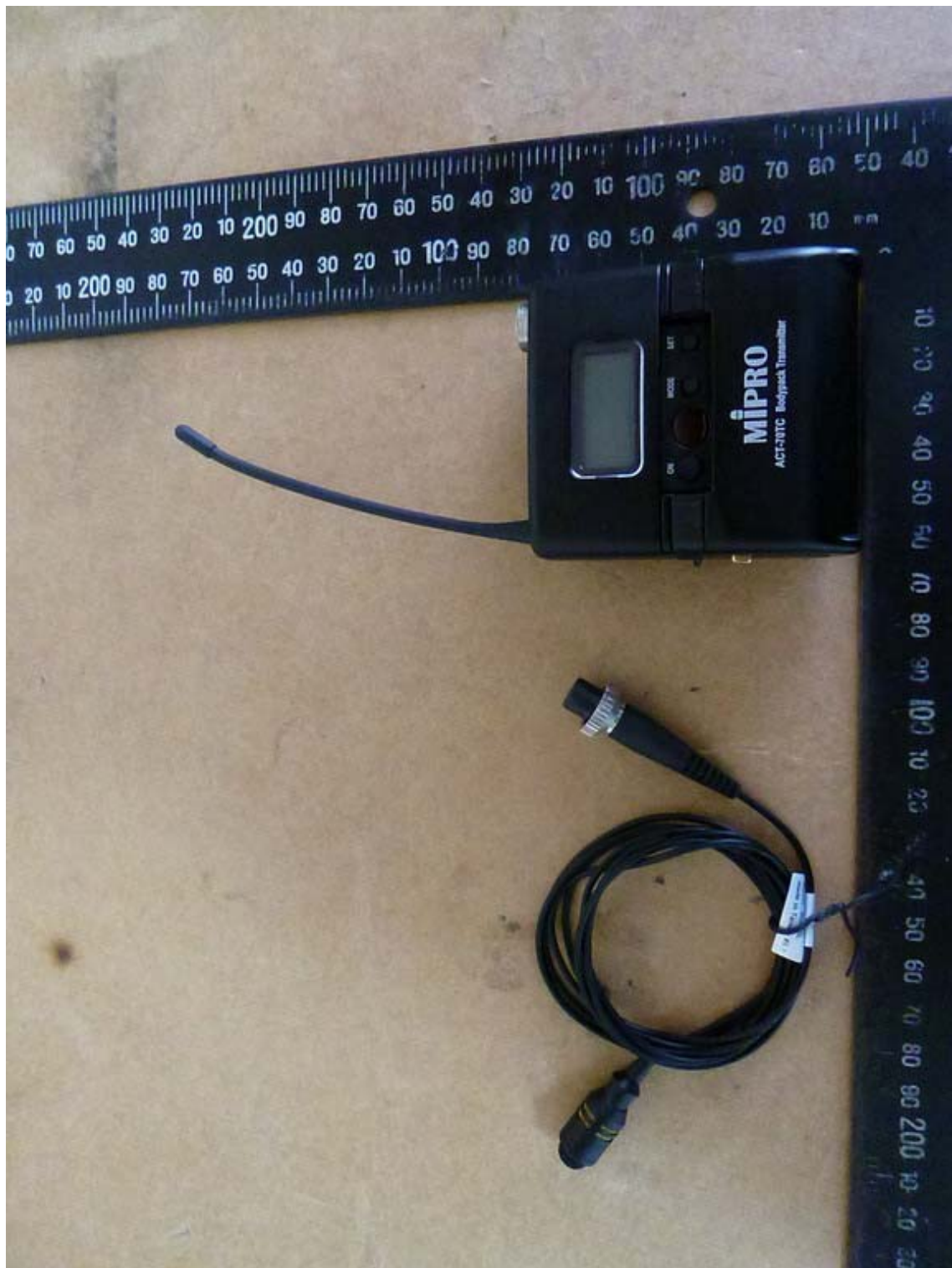


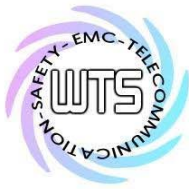
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FCC ID: M5X-3032707172TC

External Photos

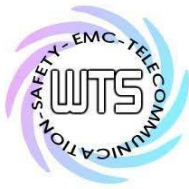




Worldwide Testing Services(Taiwan) Co., Ltd.

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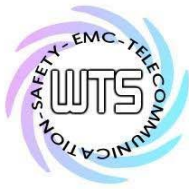




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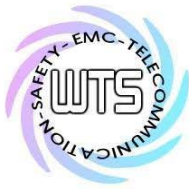




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FCC ID: M5X-3032707172TC

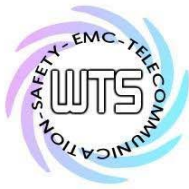




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Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

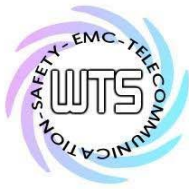




Worldwide Testing Services(Taiwan) Co., Ltd.

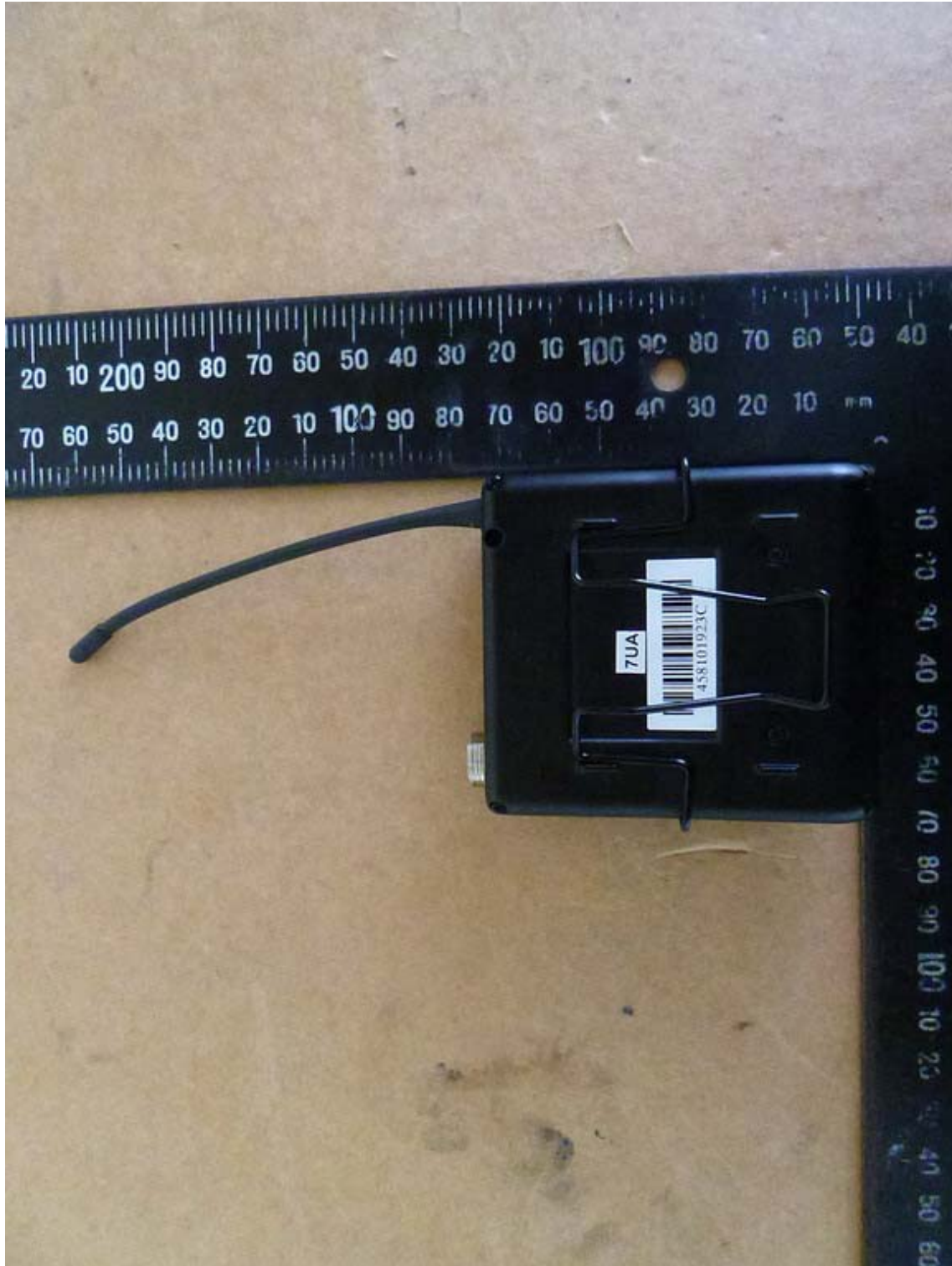
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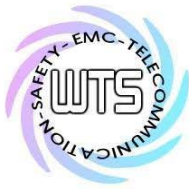




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

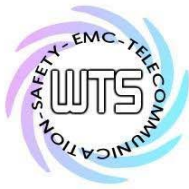




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

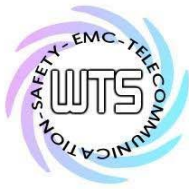




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



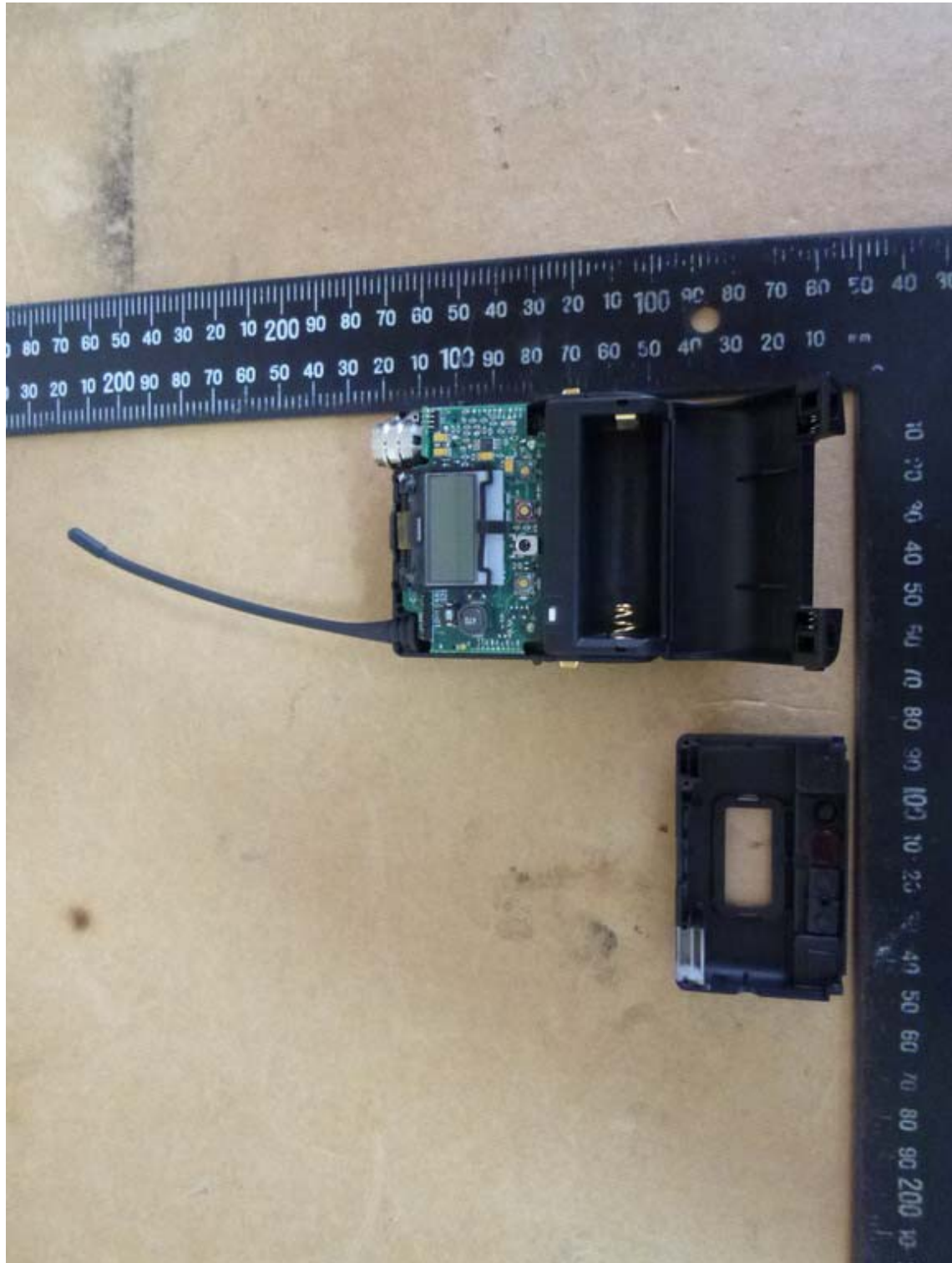


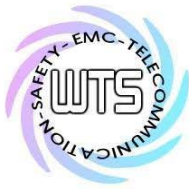
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

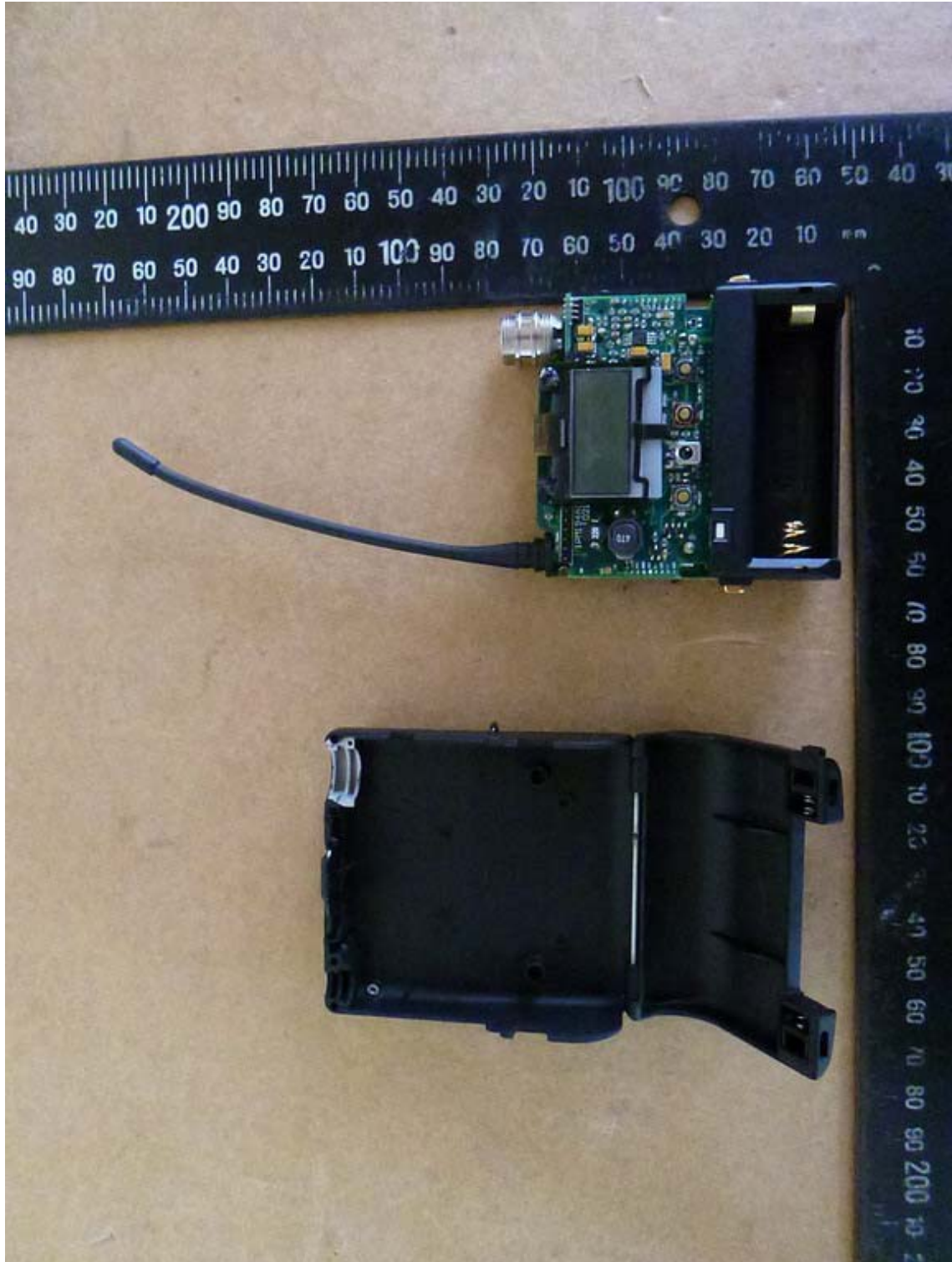
Internal Photos

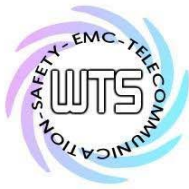




Worldwide Testing Services(Taiwan) Co., Ltd.

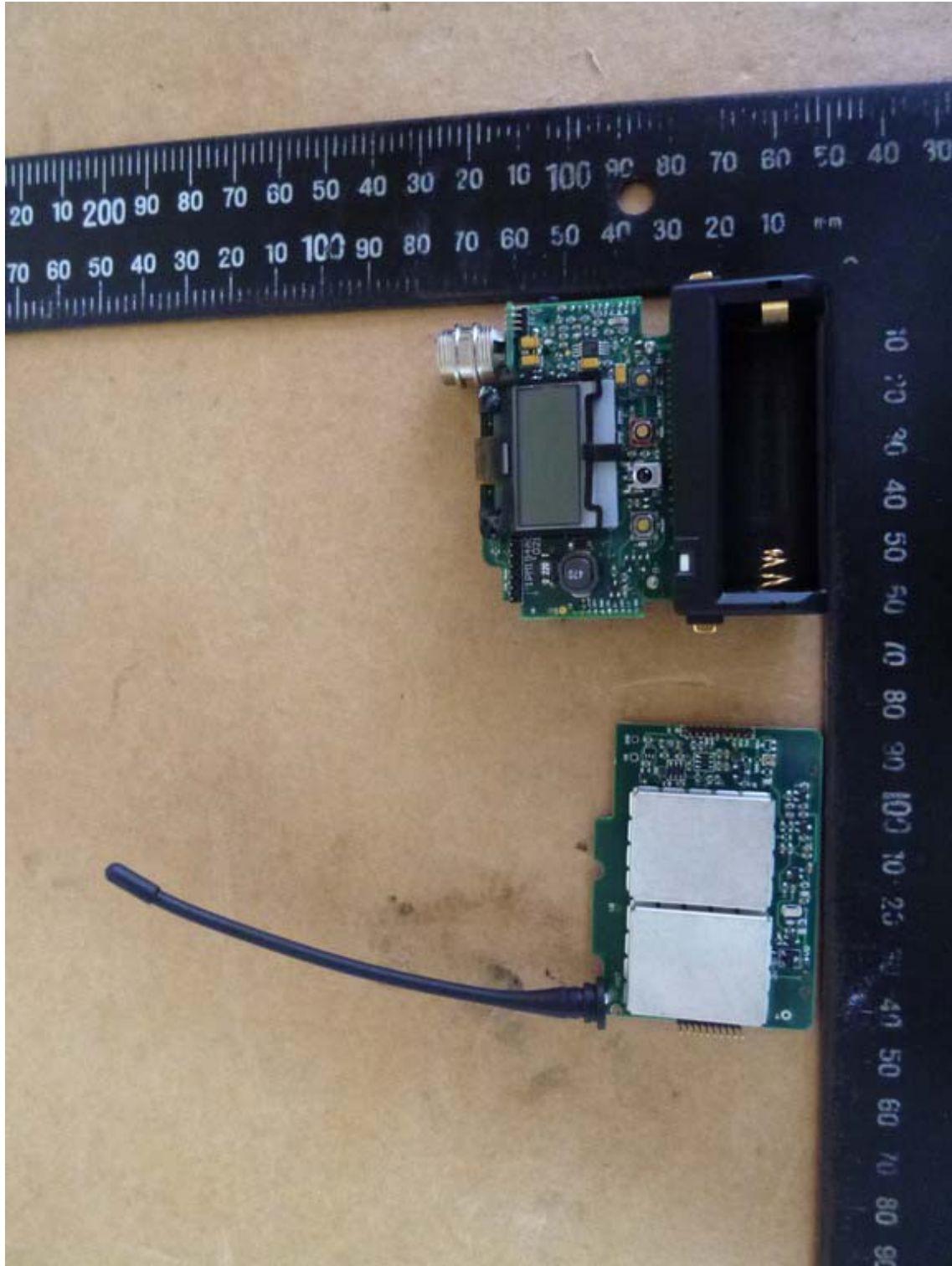
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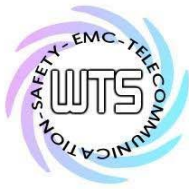




Worldwide Testing Services(Taiwan) Co., Ltd.

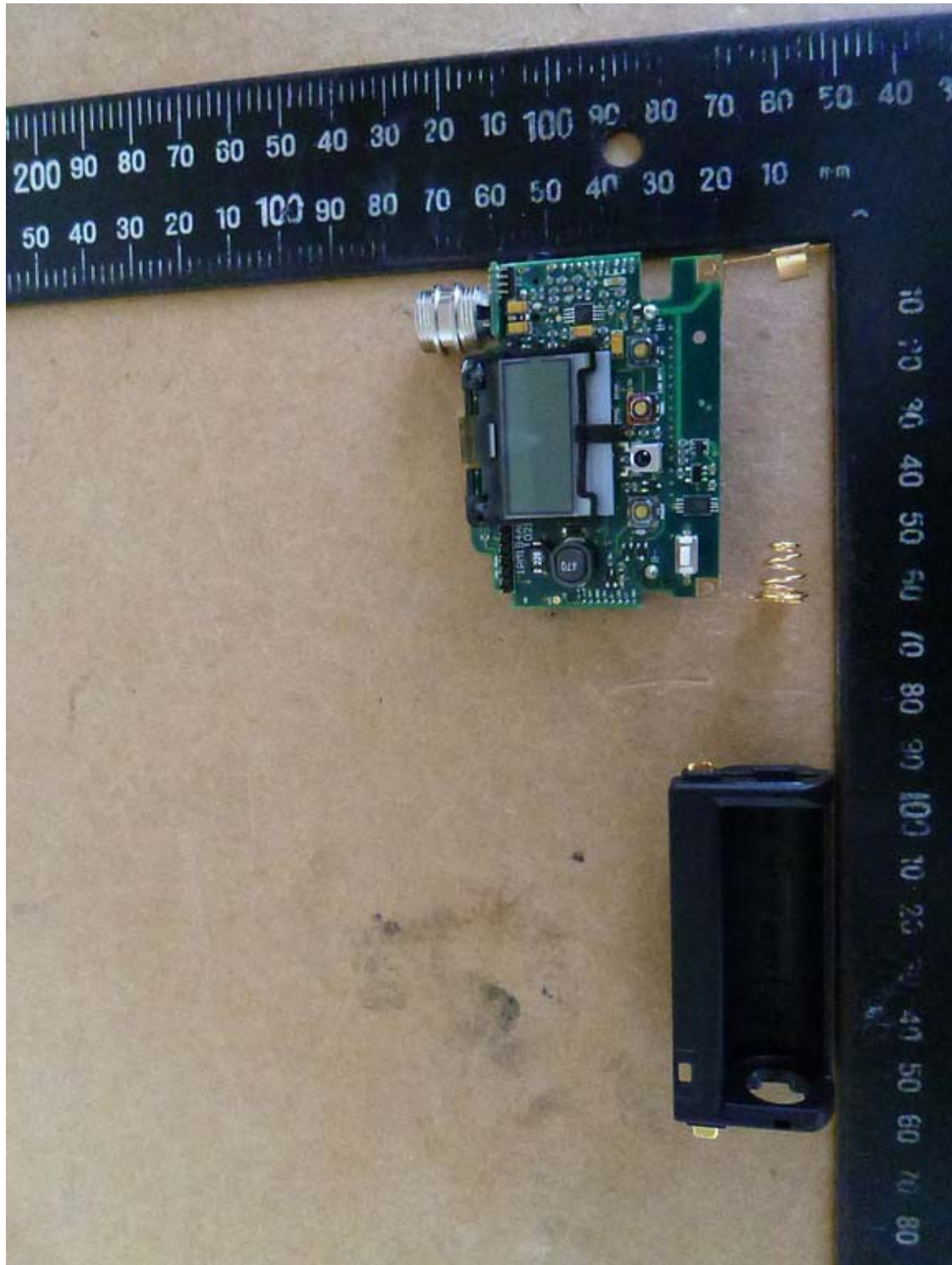
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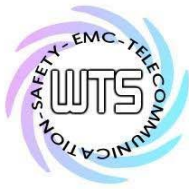




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
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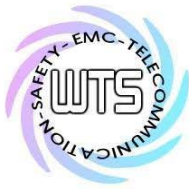




Worldwide Testing Services(Taiwan) Co., Ltd.

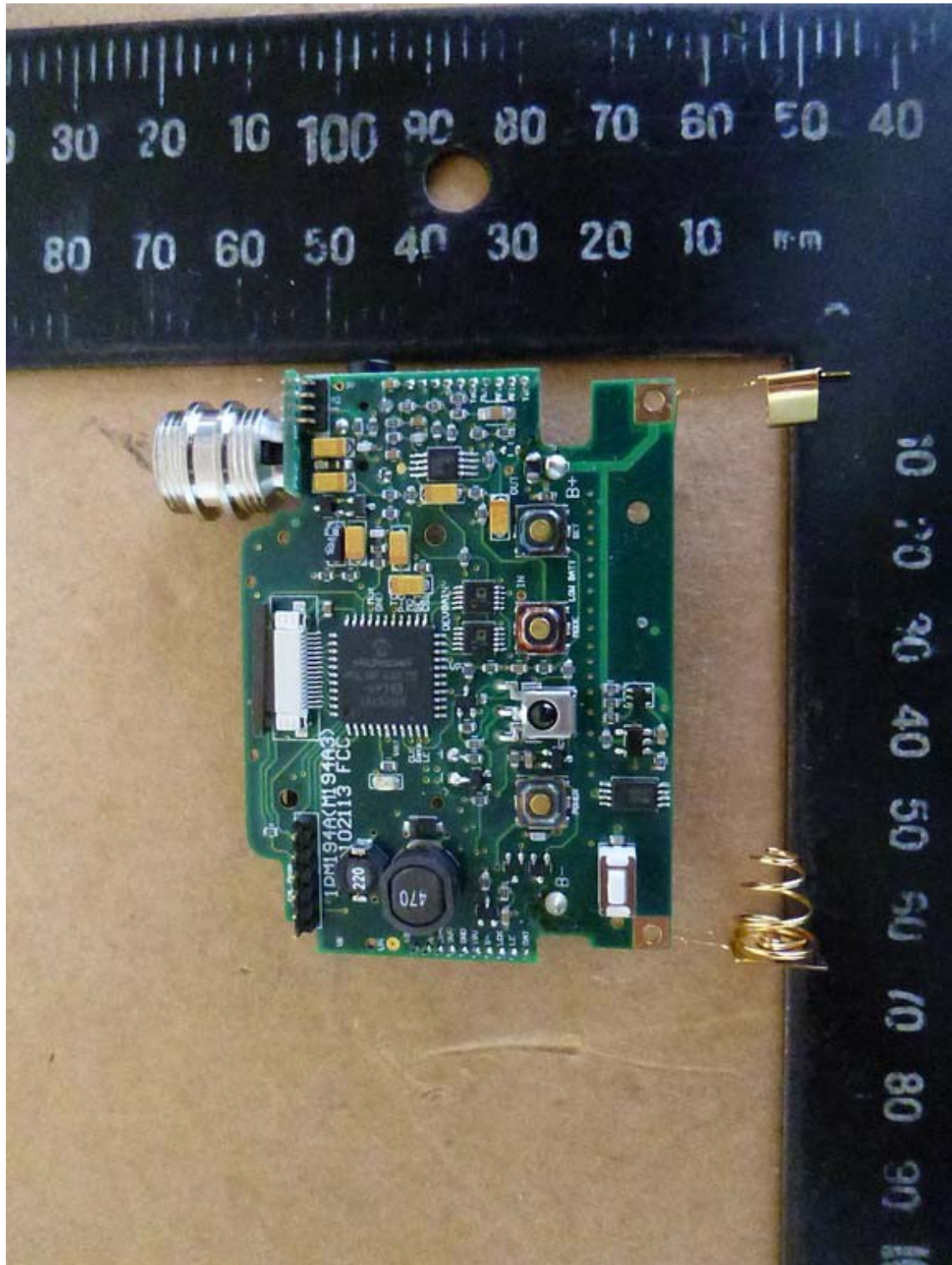
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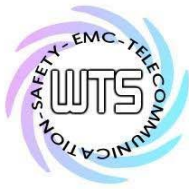




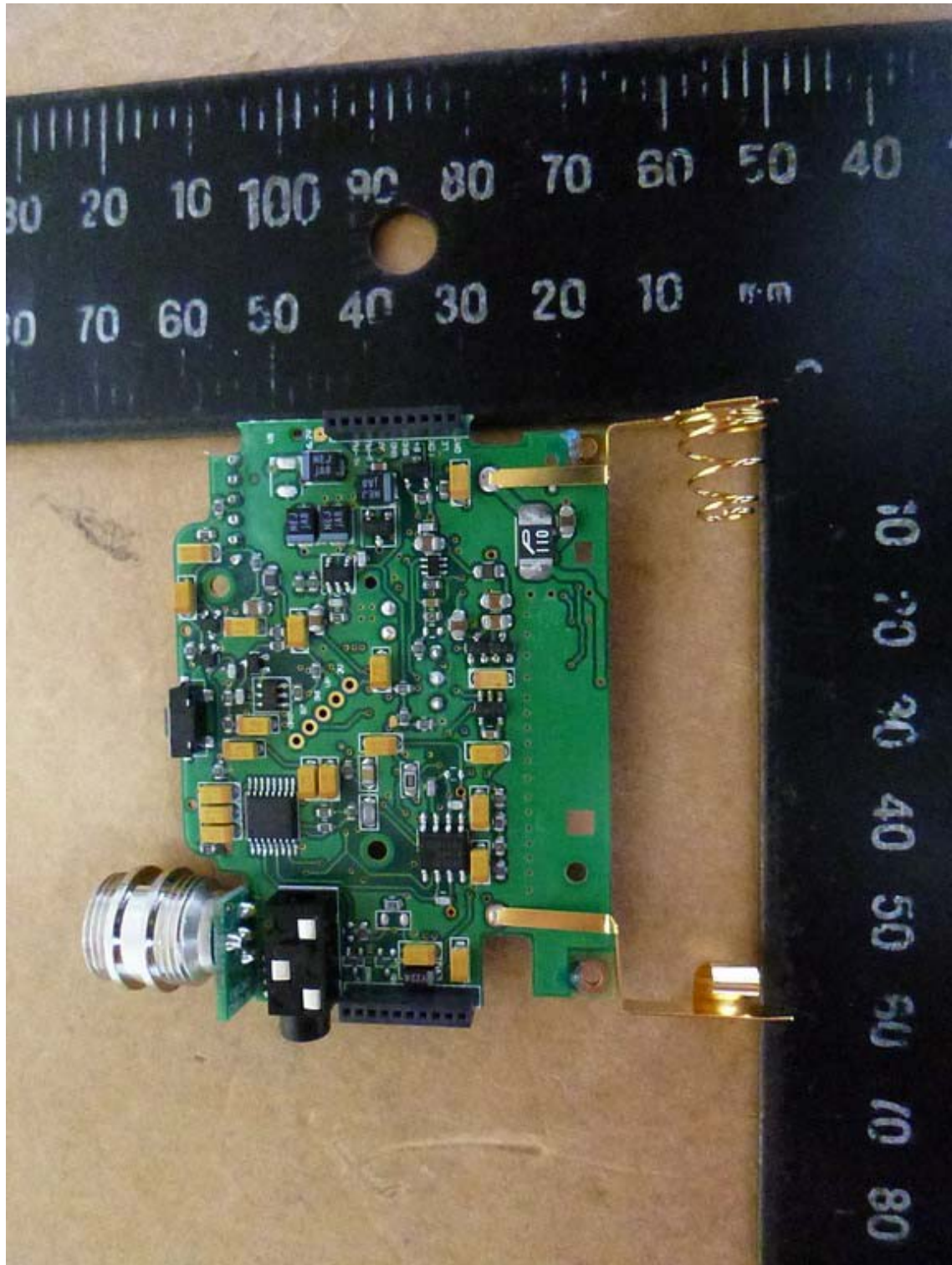
Worldwide Testing Services(Taiwan) Co., Ltd.

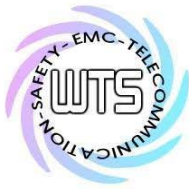
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FCC ID: M5X-3032707172TC





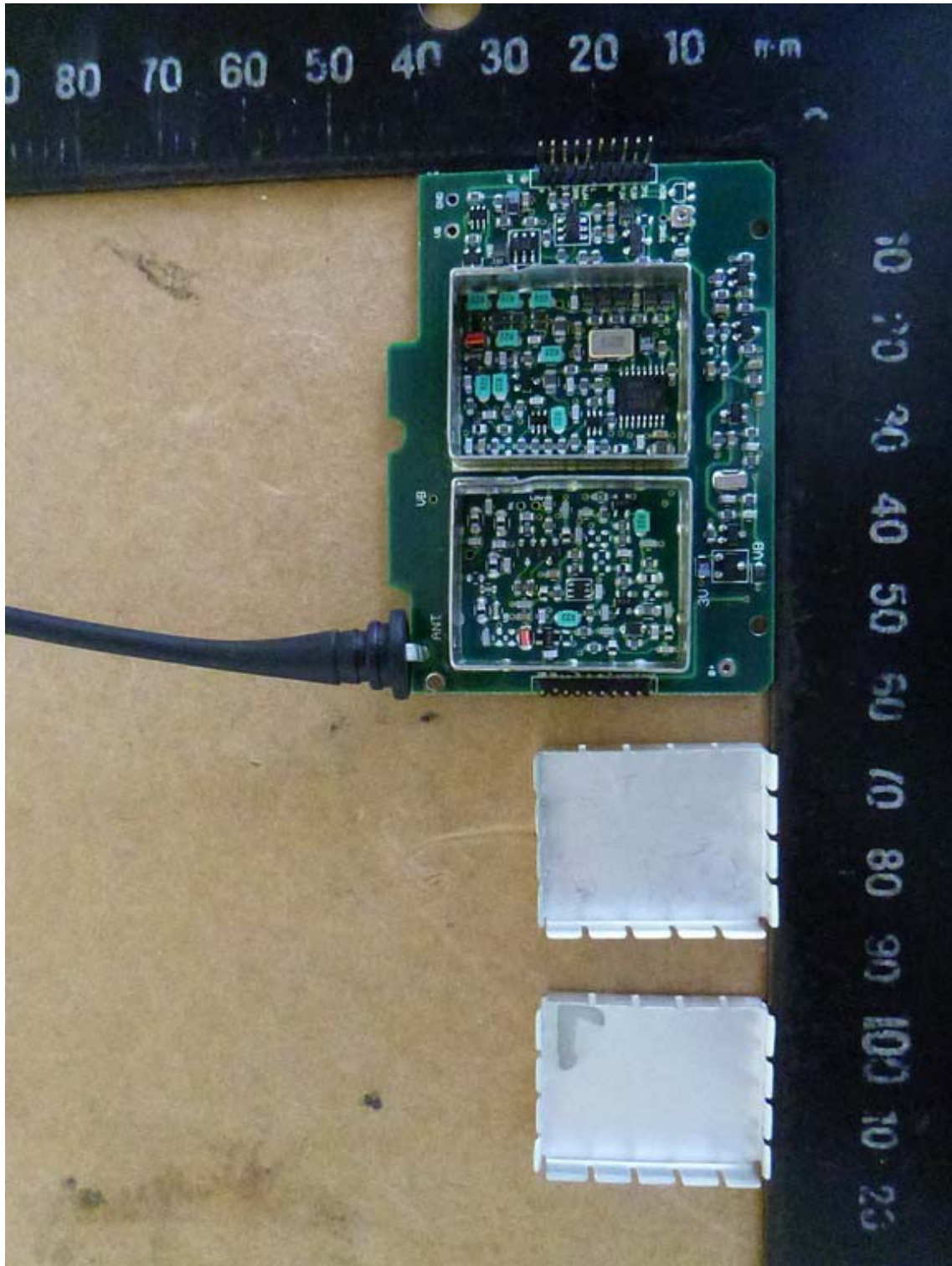
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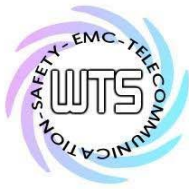




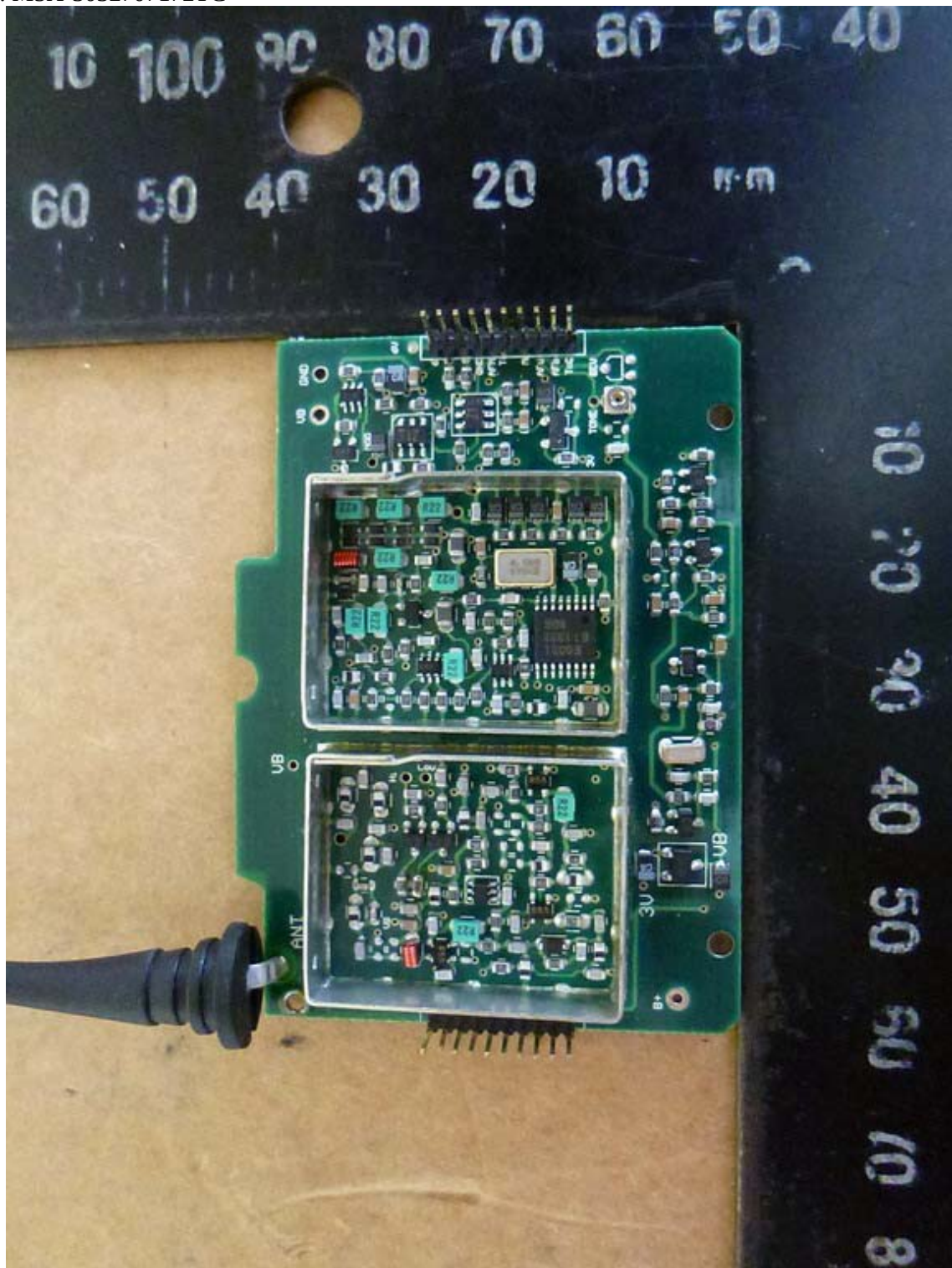
Worldwide Testing Services(Taiwan) Co., Ltd.

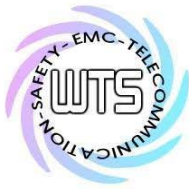
Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC





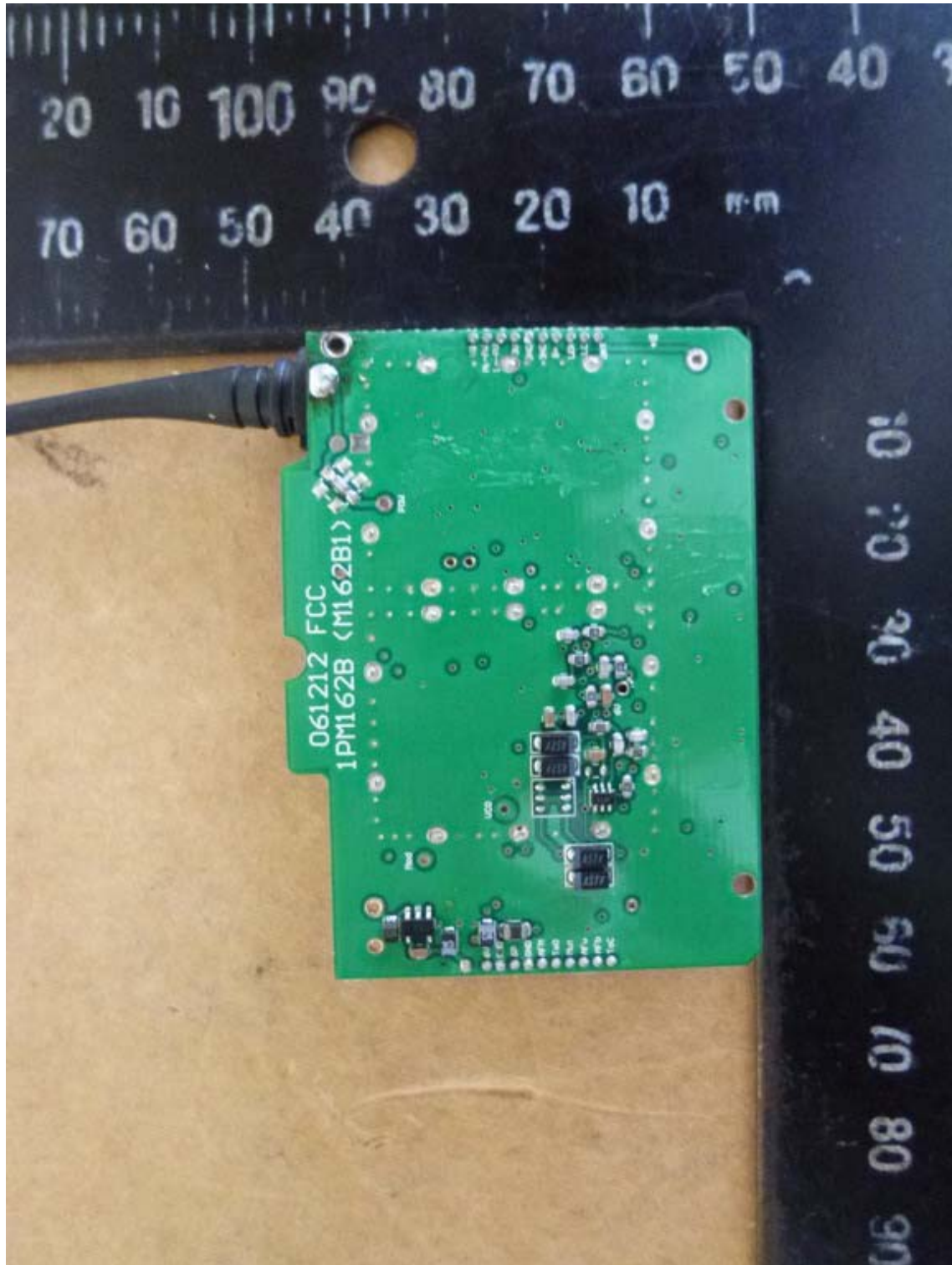
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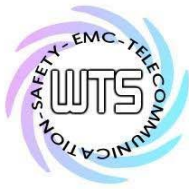




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC

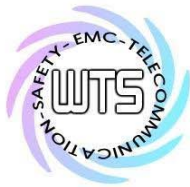




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R
FCC ID: M5X-3032707172TC



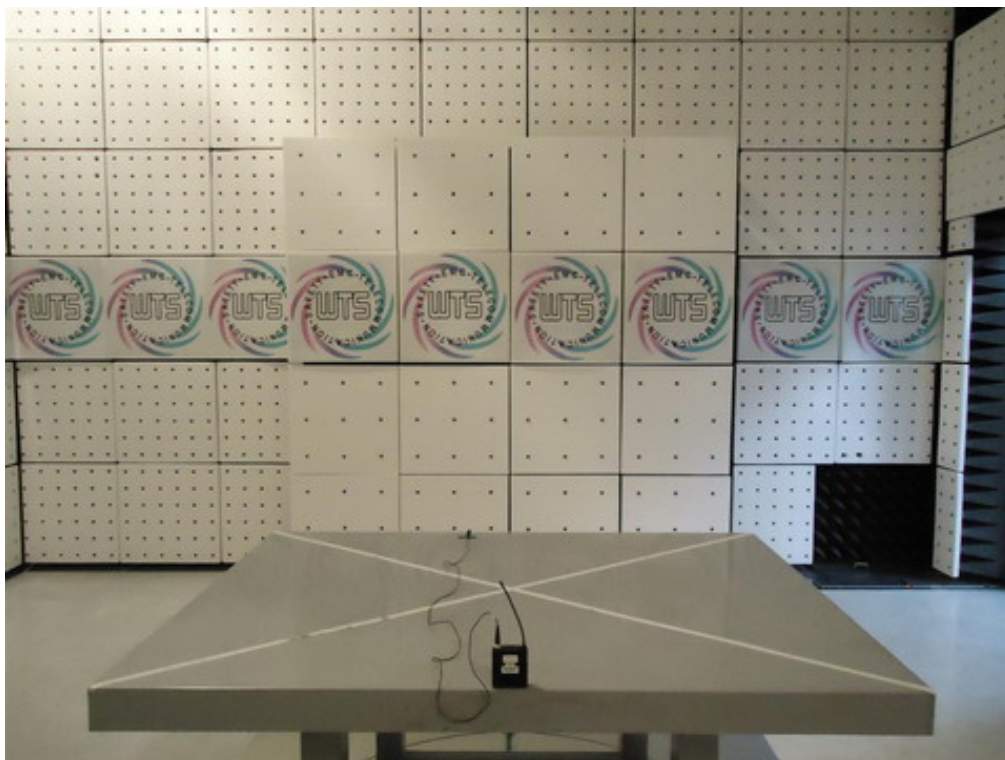
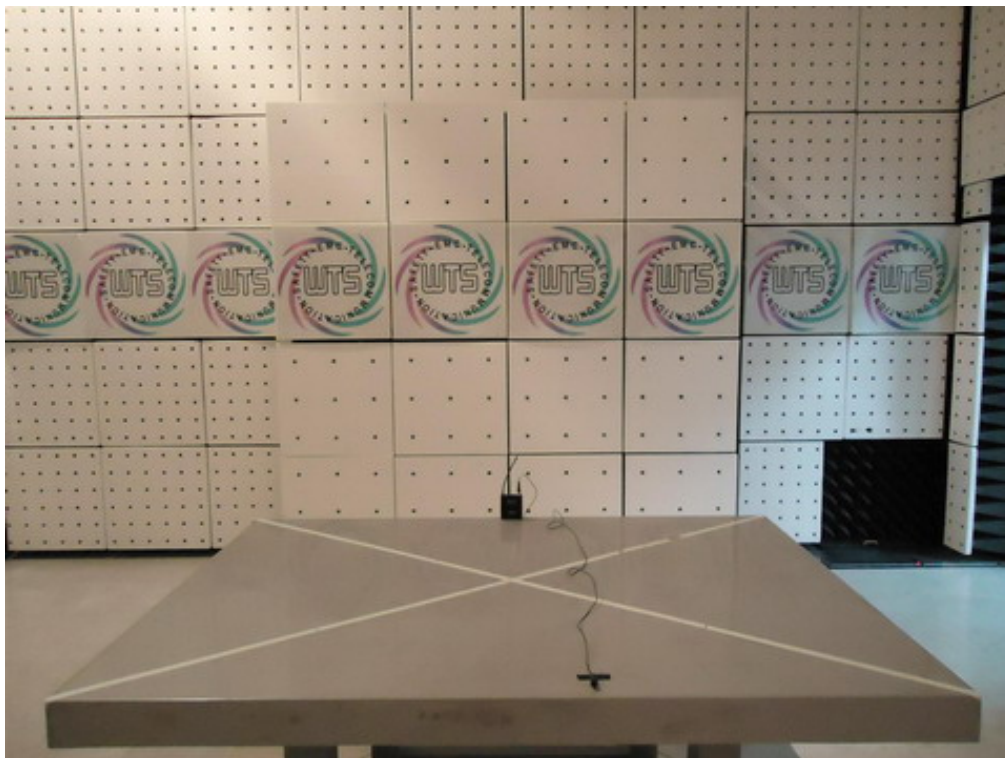


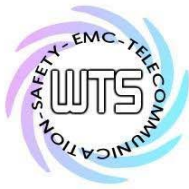
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

Set Up Photo of Radiated Emission



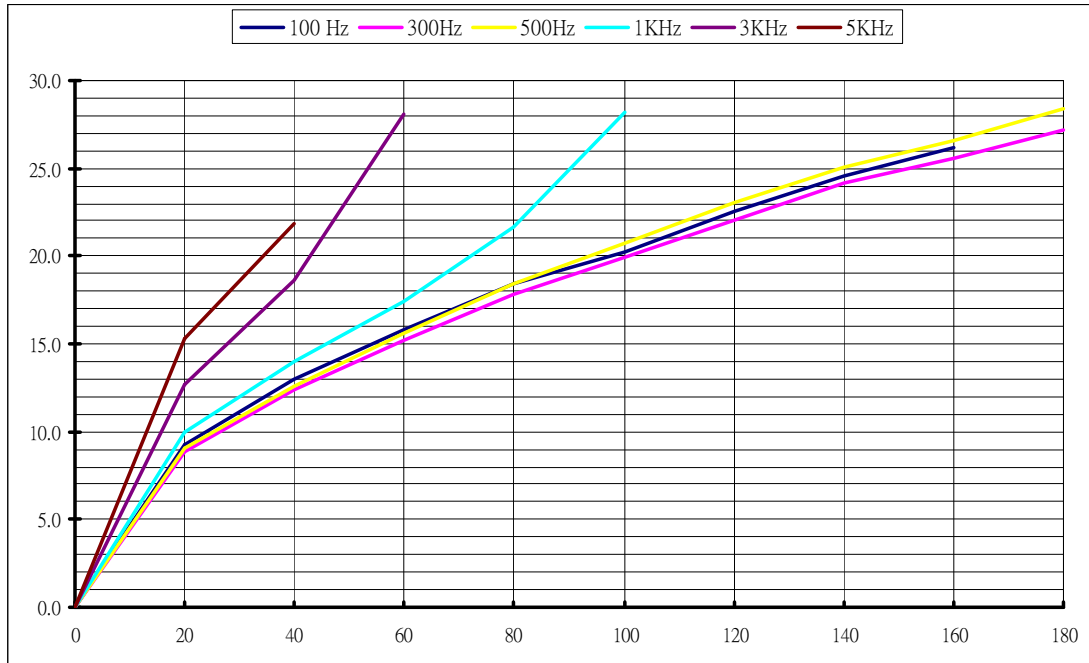


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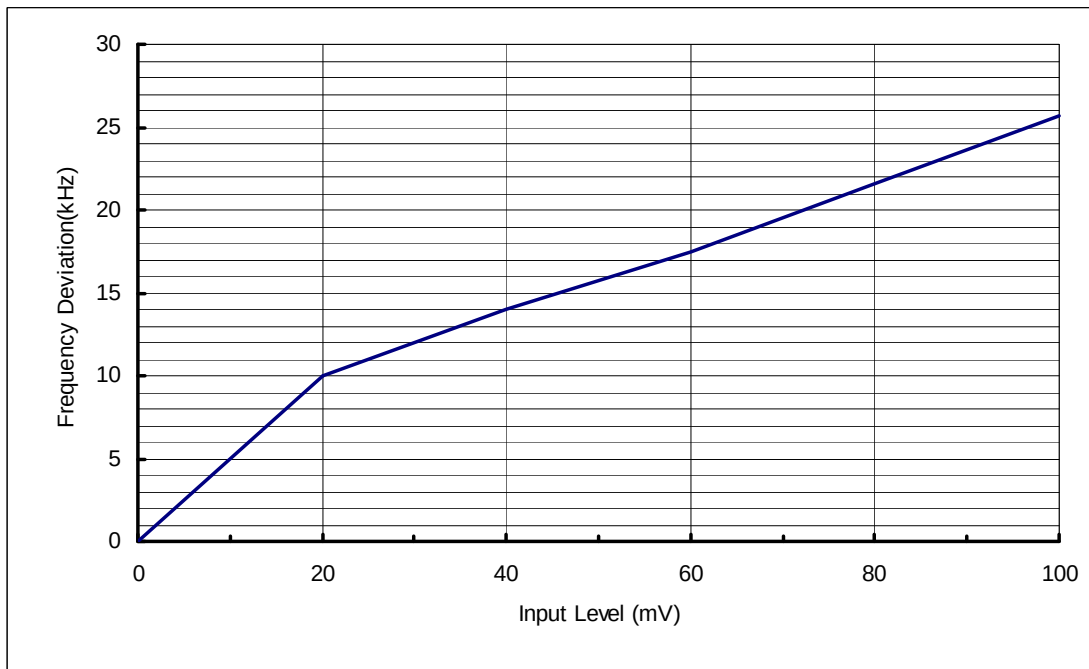
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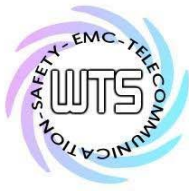
480.1 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

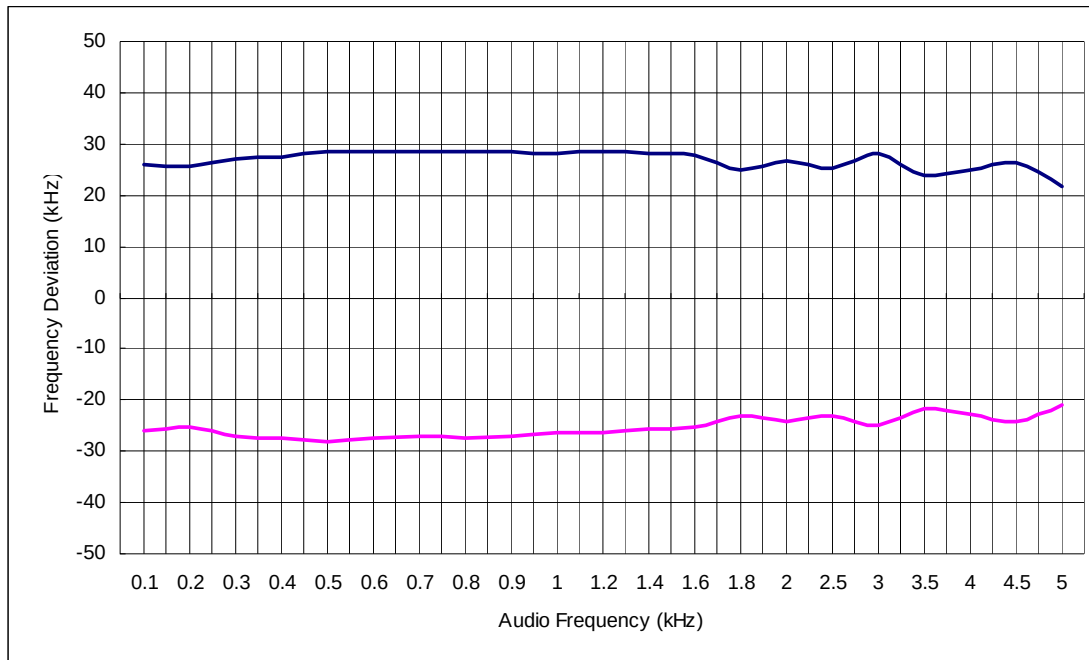




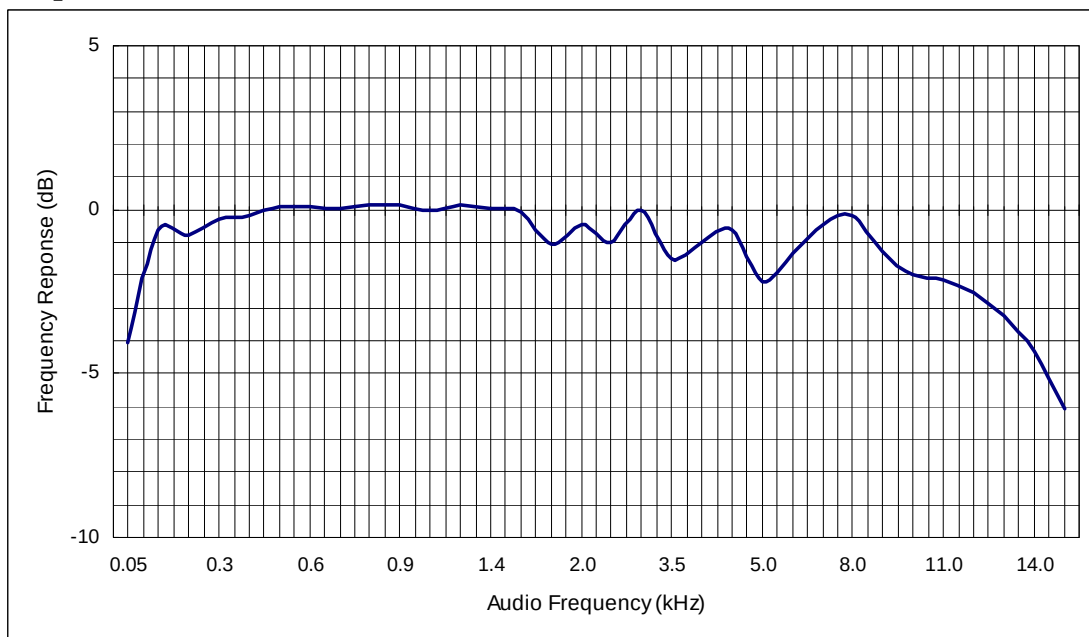
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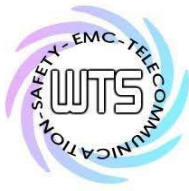
FCC ID: M5X-3032707172TC

Frequency Deviation



Audio Response



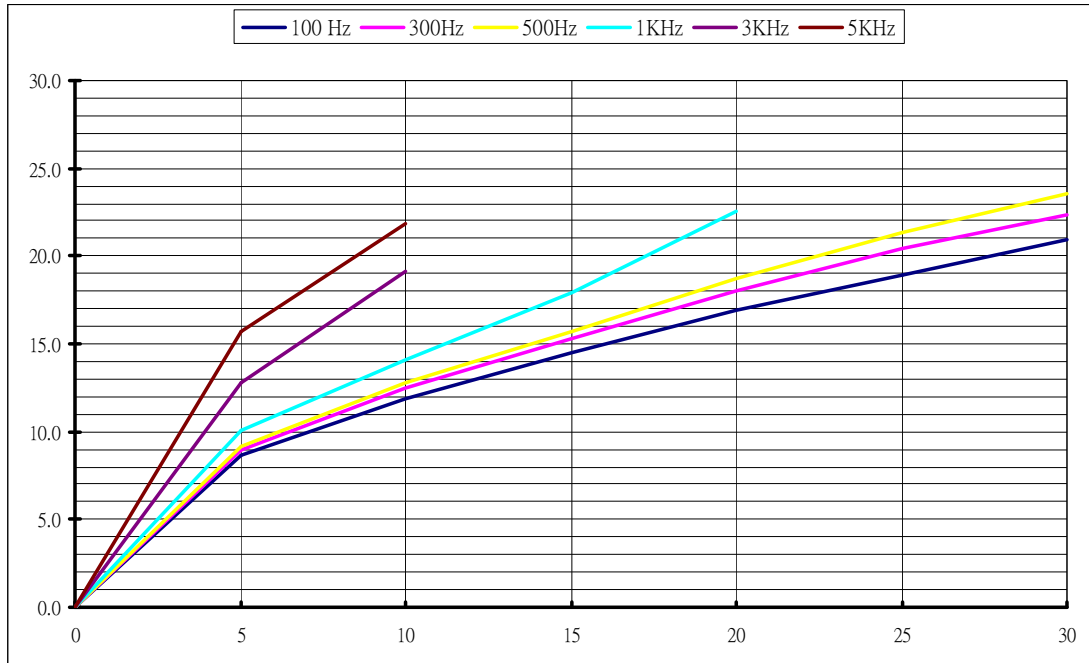


Registration number: W6M21405-14186-C-1-R

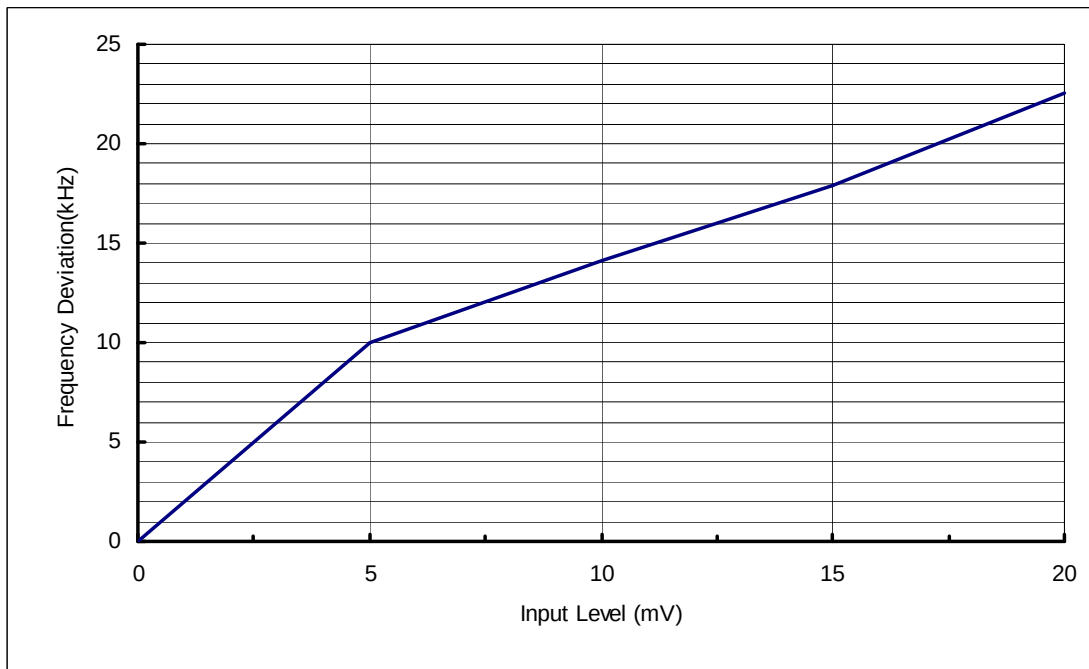
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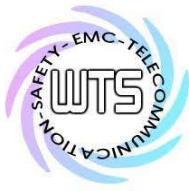
544MHz

Modulation Characteristics



Frequency Deviation at 1kHz

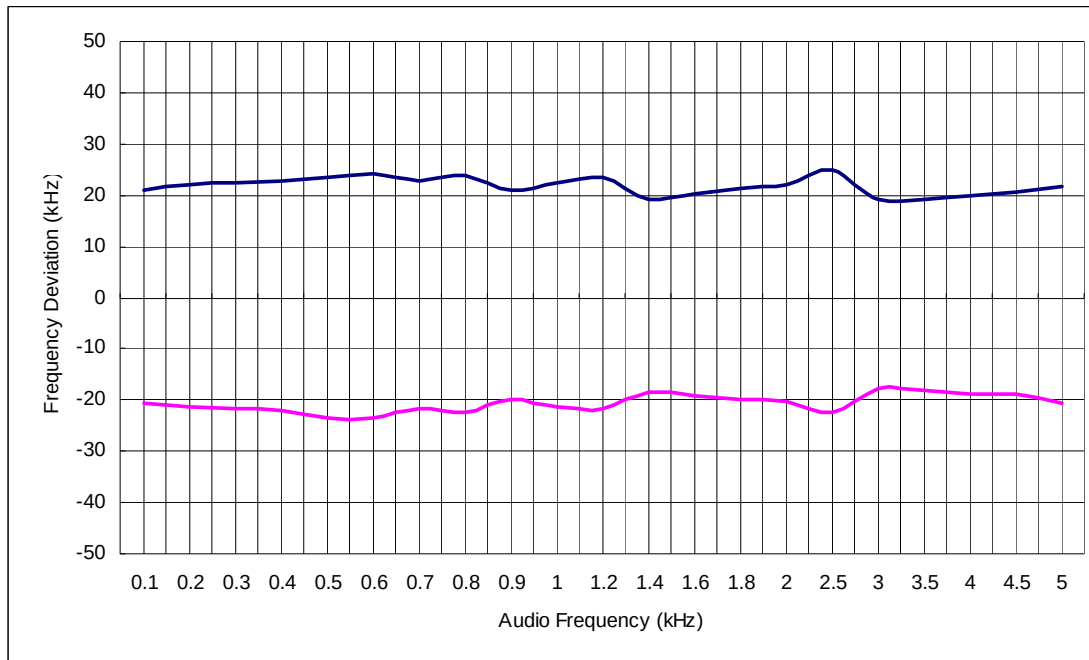




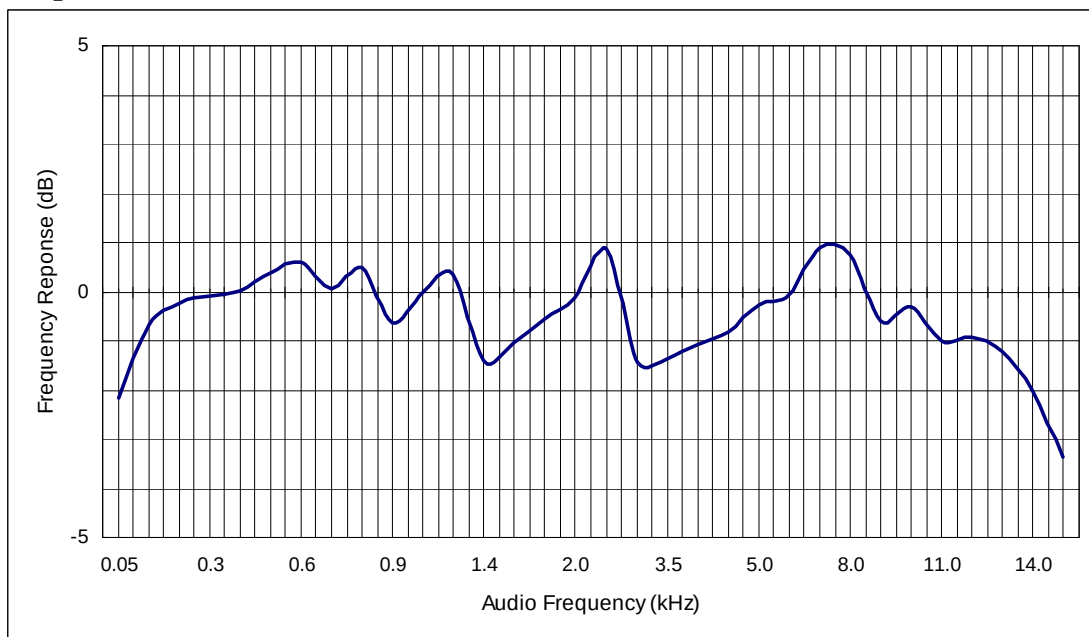
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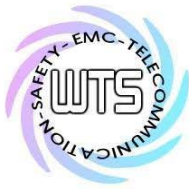
FCC ID: M5X-3032707172TC

Frequency Deviation



Audio Response



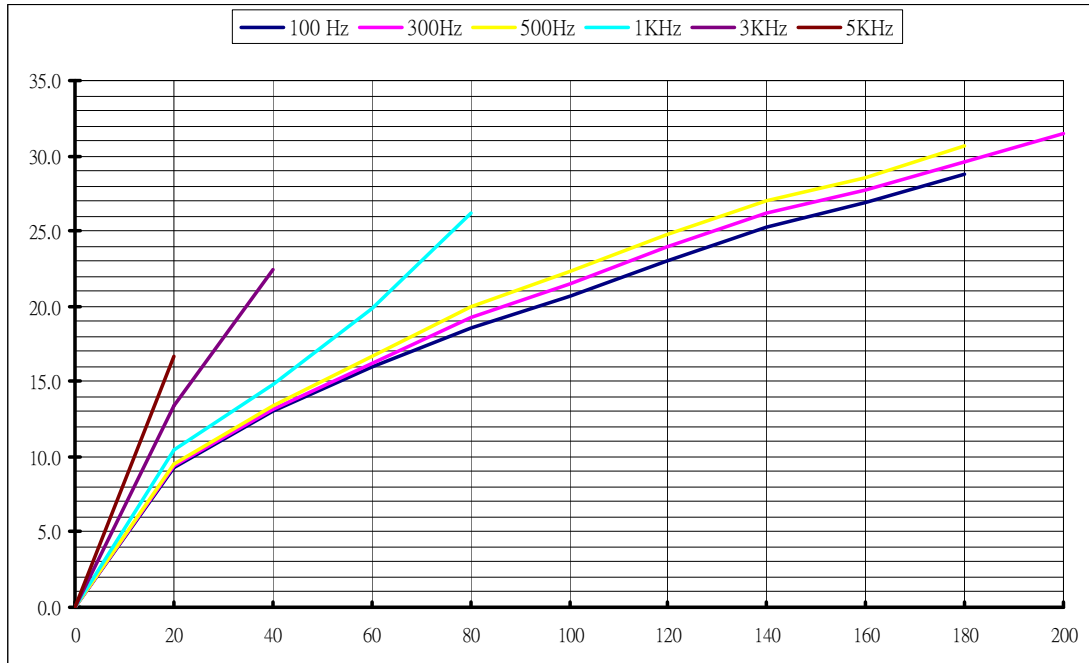


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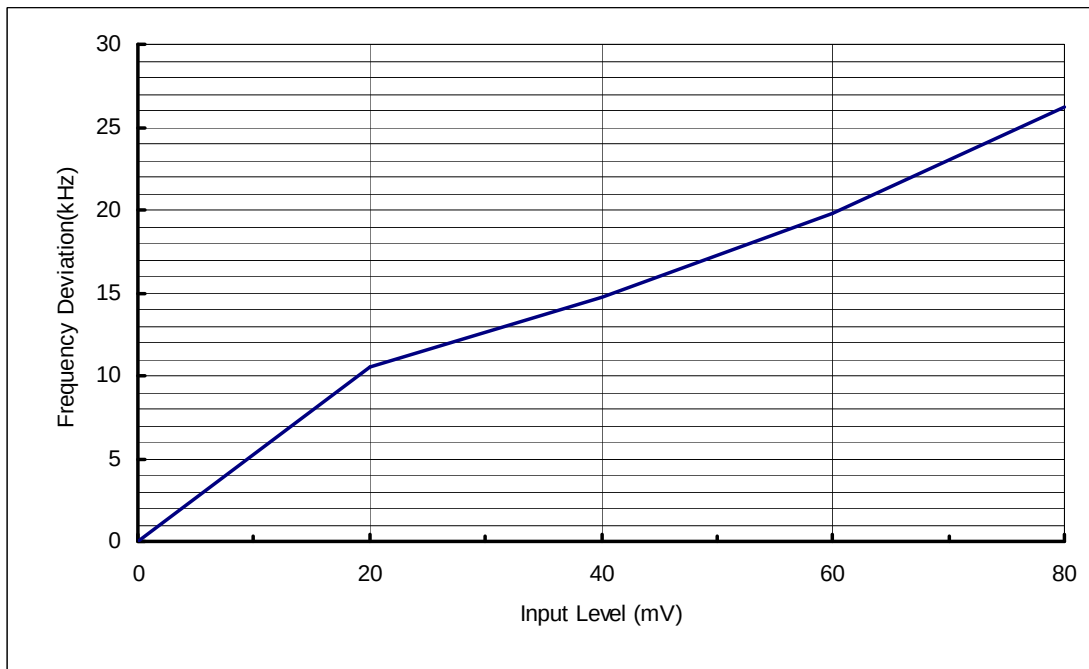
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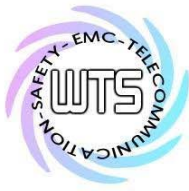
607.9 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

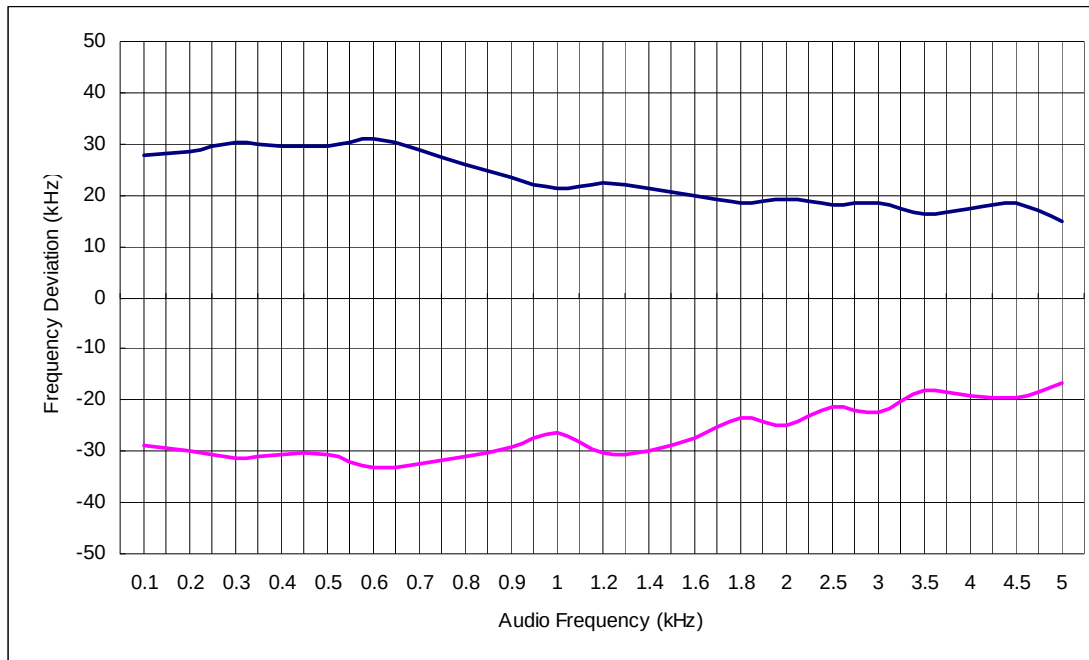




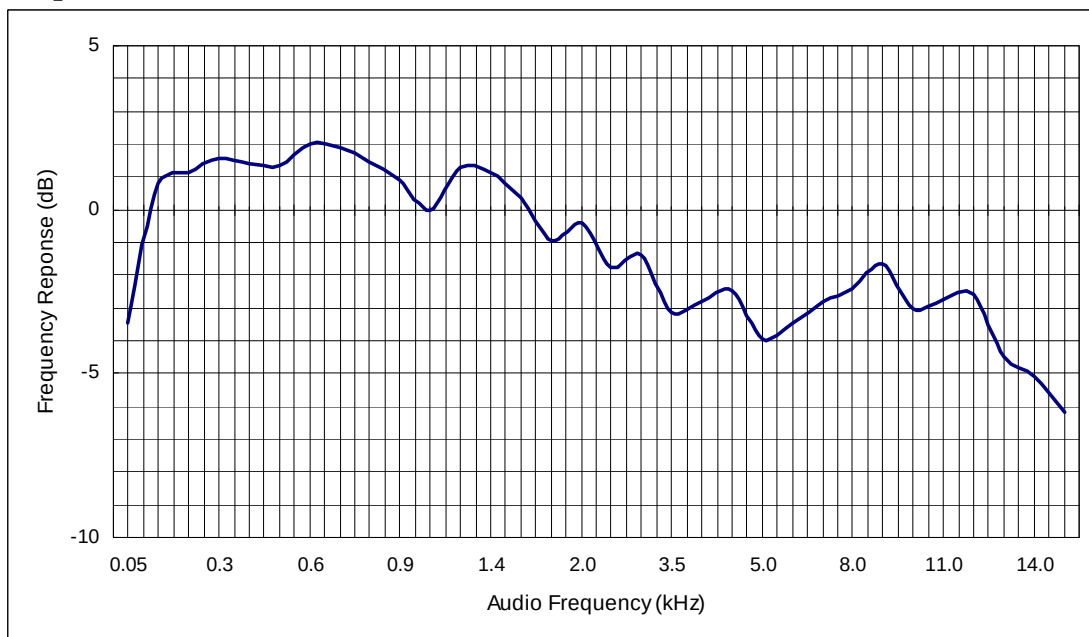
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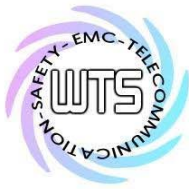
FCC ID: M5X-3032707172TC

Frequency Deviation



Audio Response



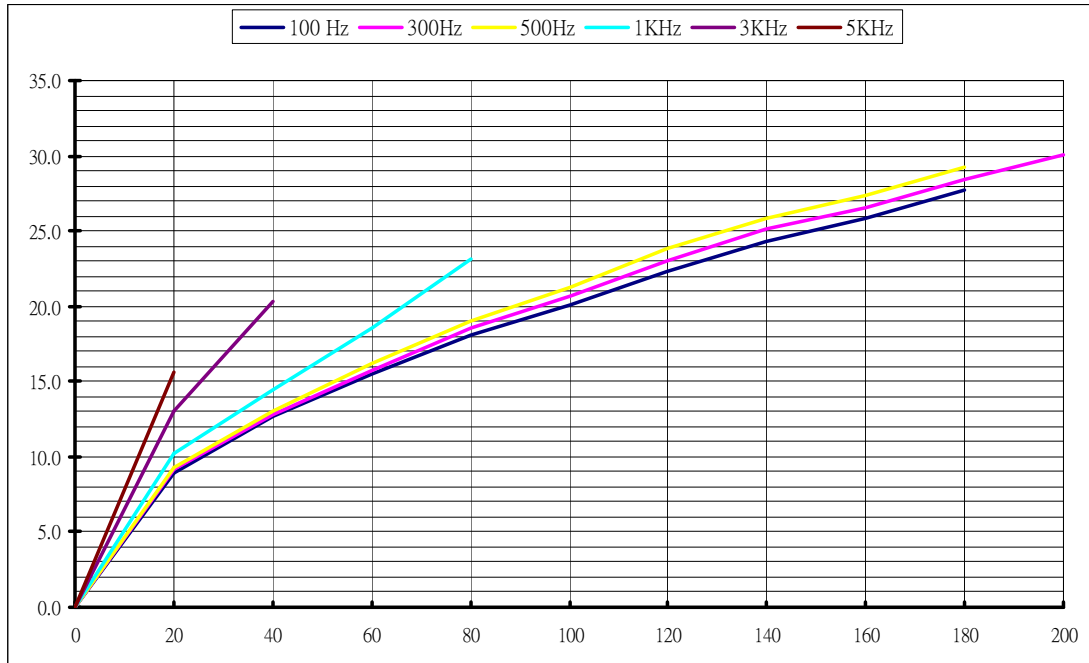


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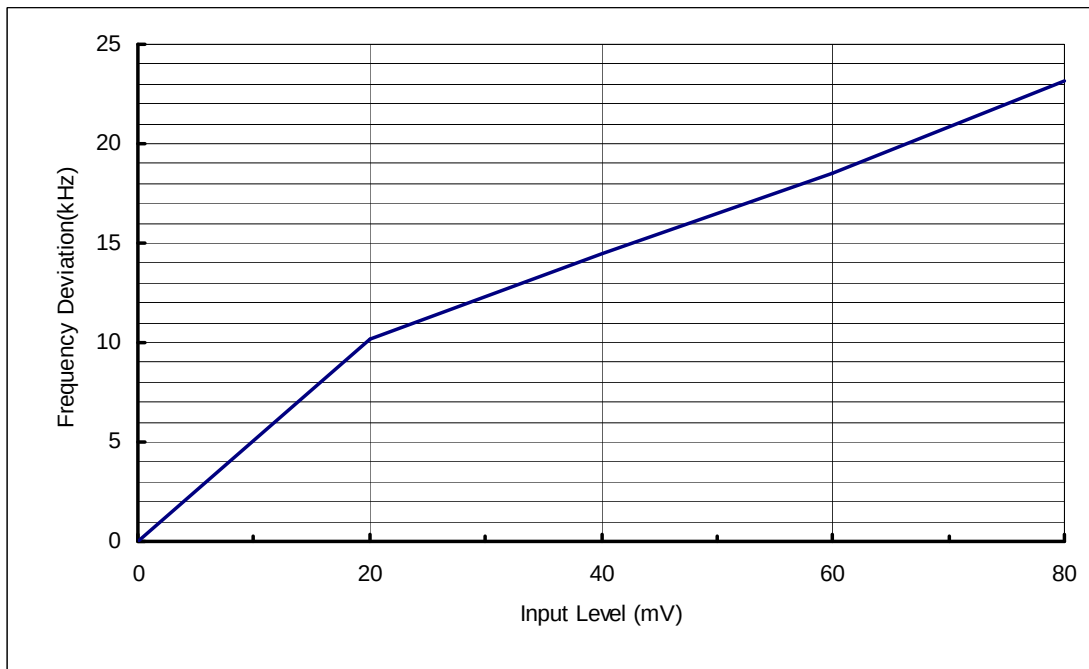
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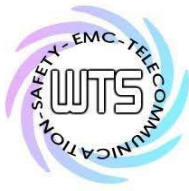
614.1 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

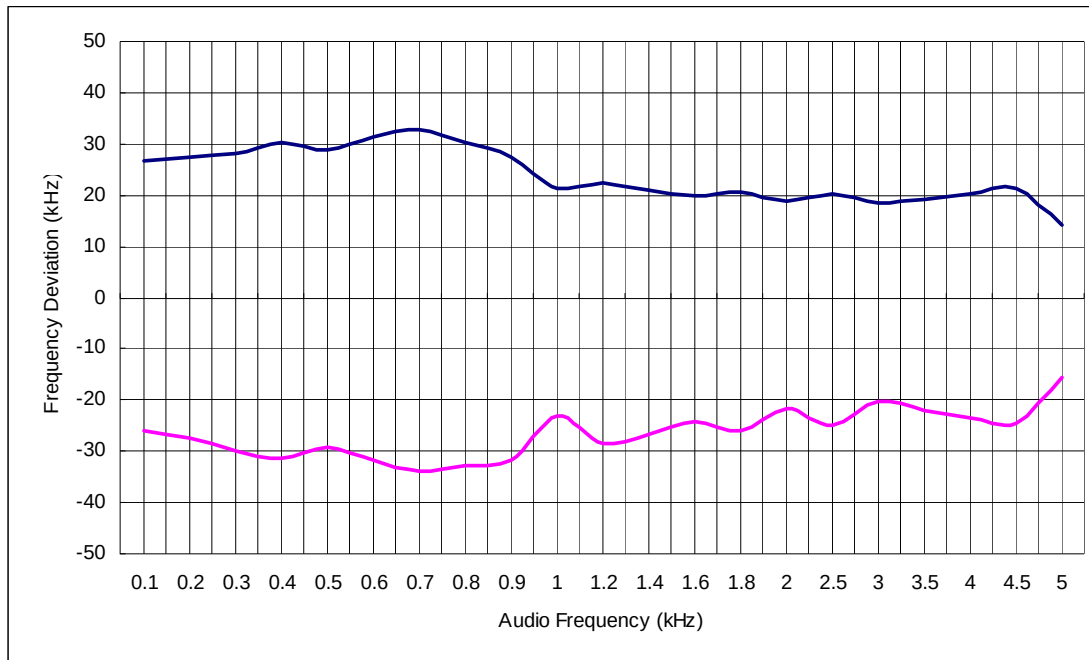




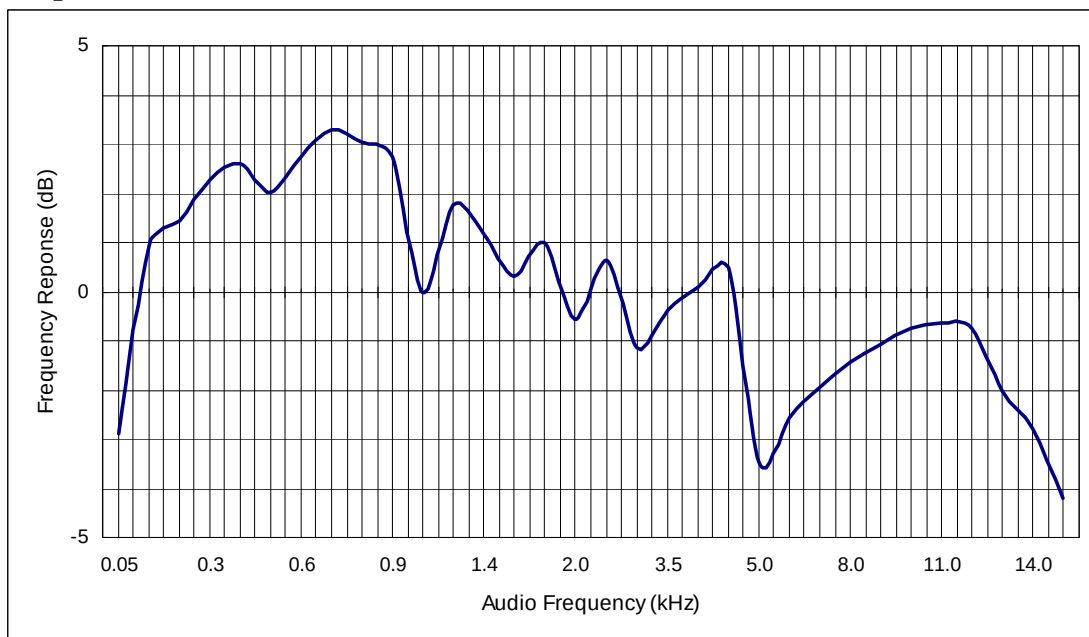
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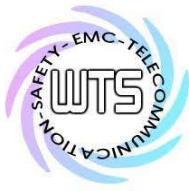
FCC ID: M5X-3032707172TC

Frequency Deviation



Audio Response



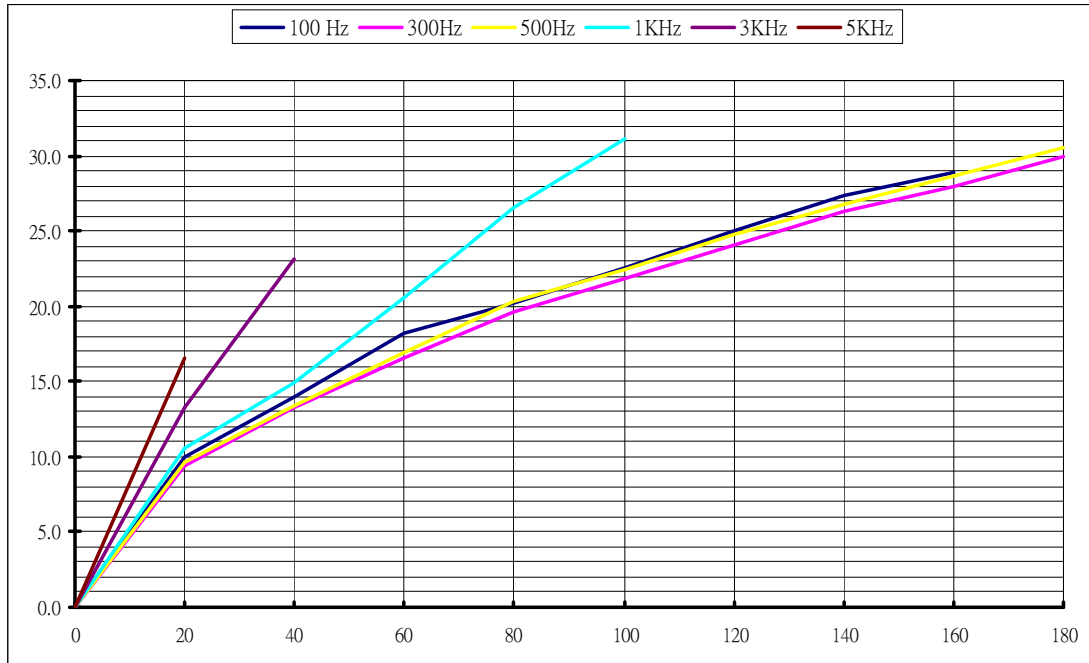


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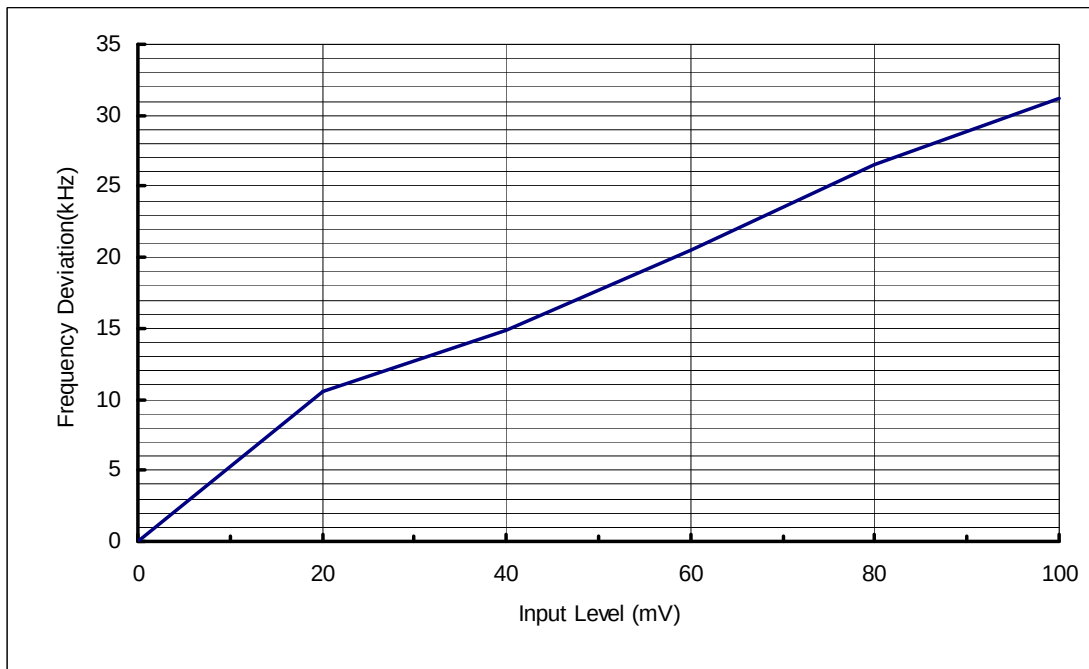
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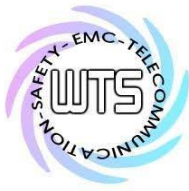
656MHz

Modulation Characteristics



Frequency Deviation at 1kHz

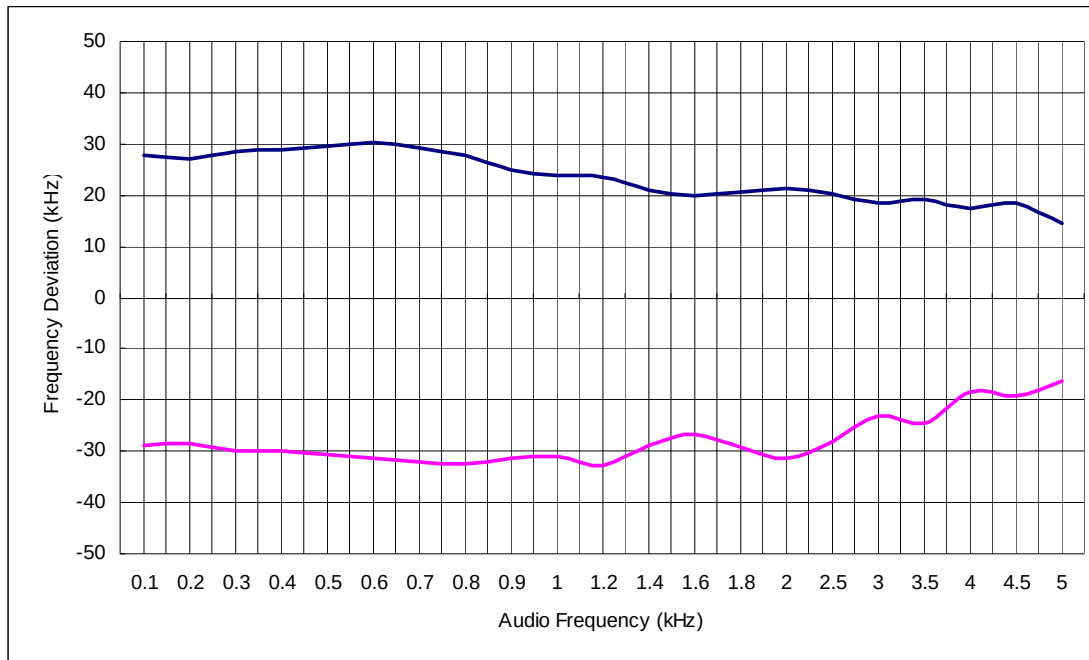




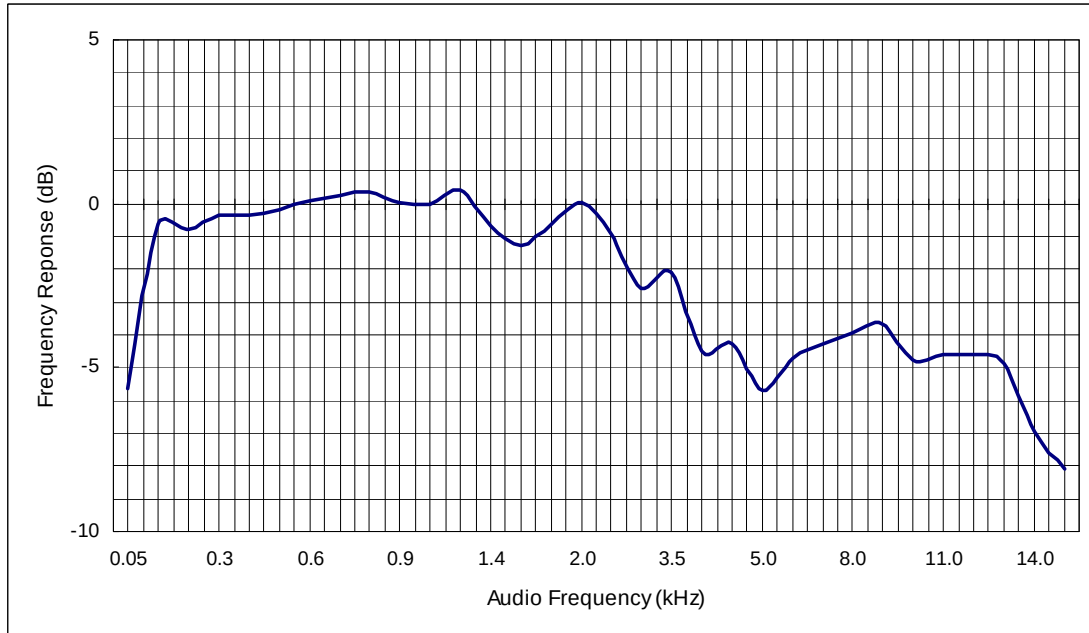
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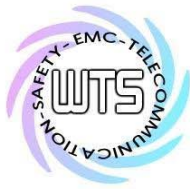
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Frequency Deviation



Audio Response



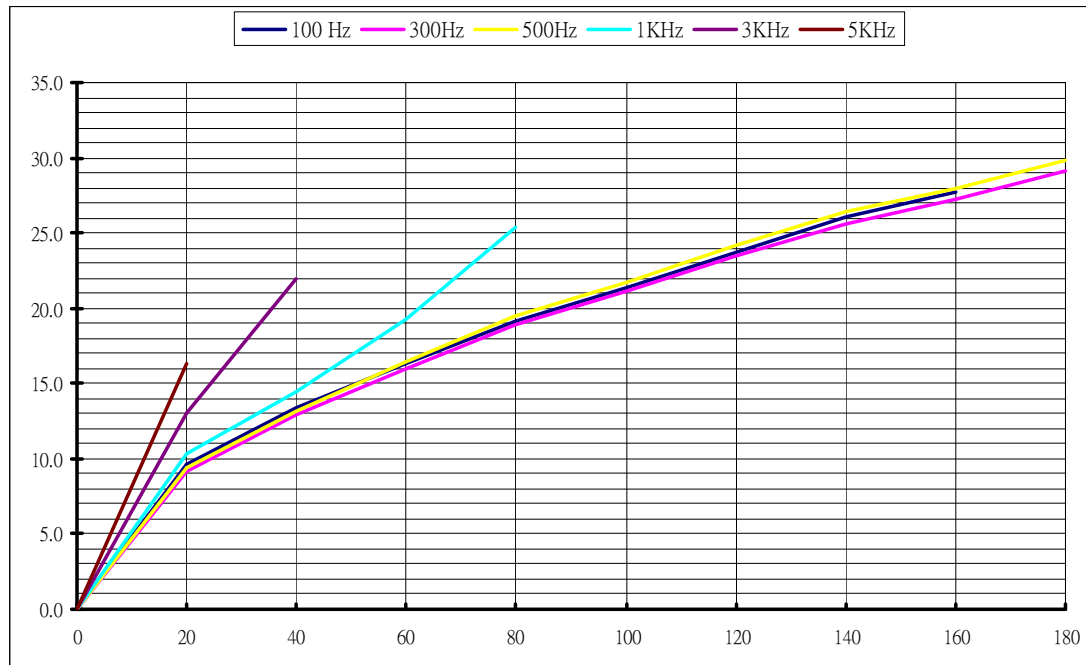


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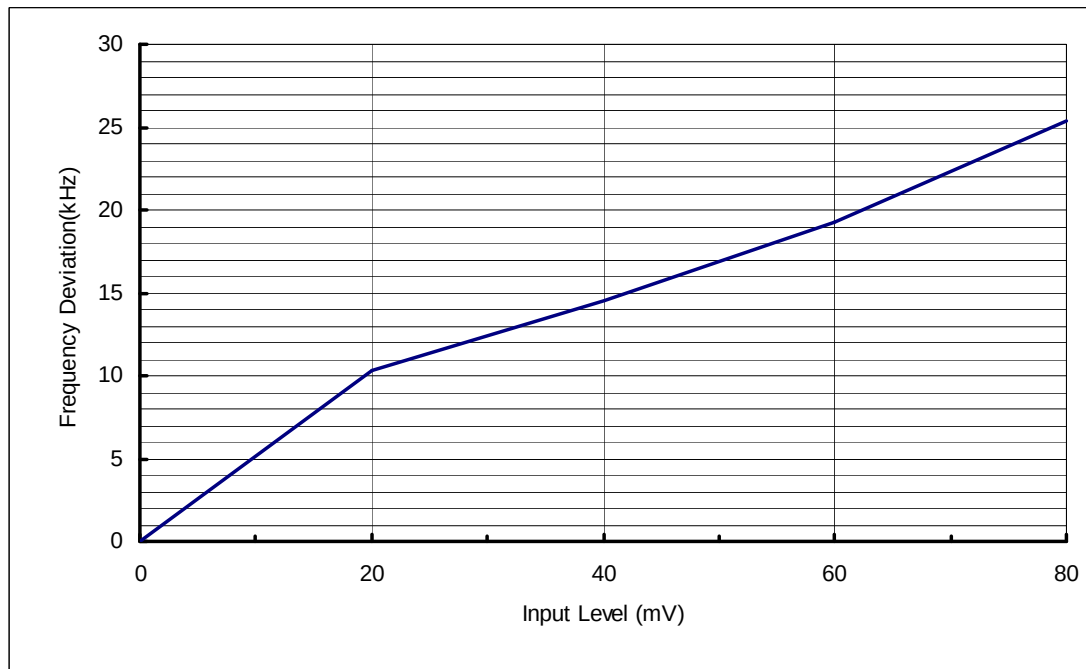
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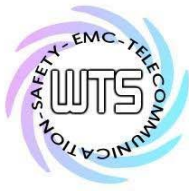
697.9 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

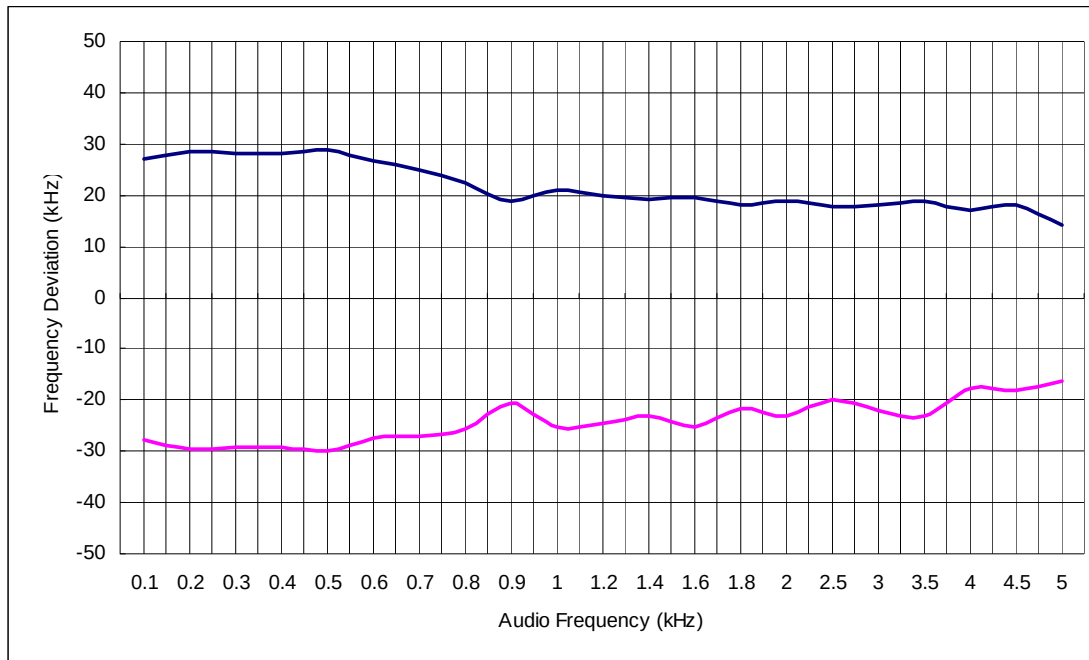




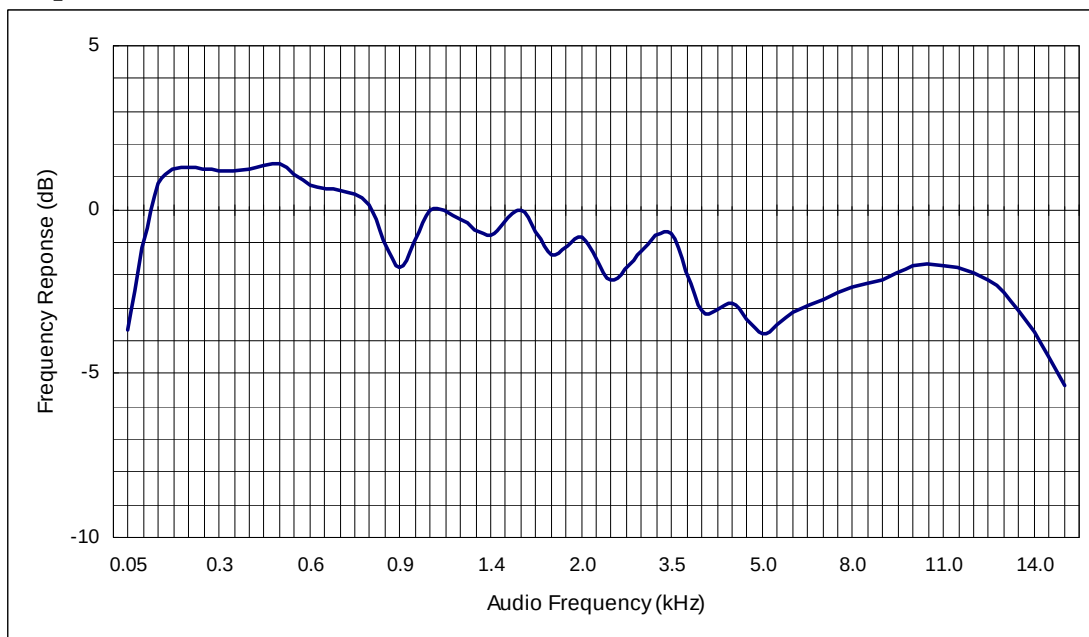
Registration number: W6M21405-14186-C-1-R

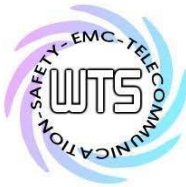
FCC ID: M5X-3032707172TC

Frequency Deviation



Audio Response





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21405-14186-C-1-R

FCC ID: M5X-3032707172TC

Radiation Spurious Emission-According to FCC Part 74.861



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

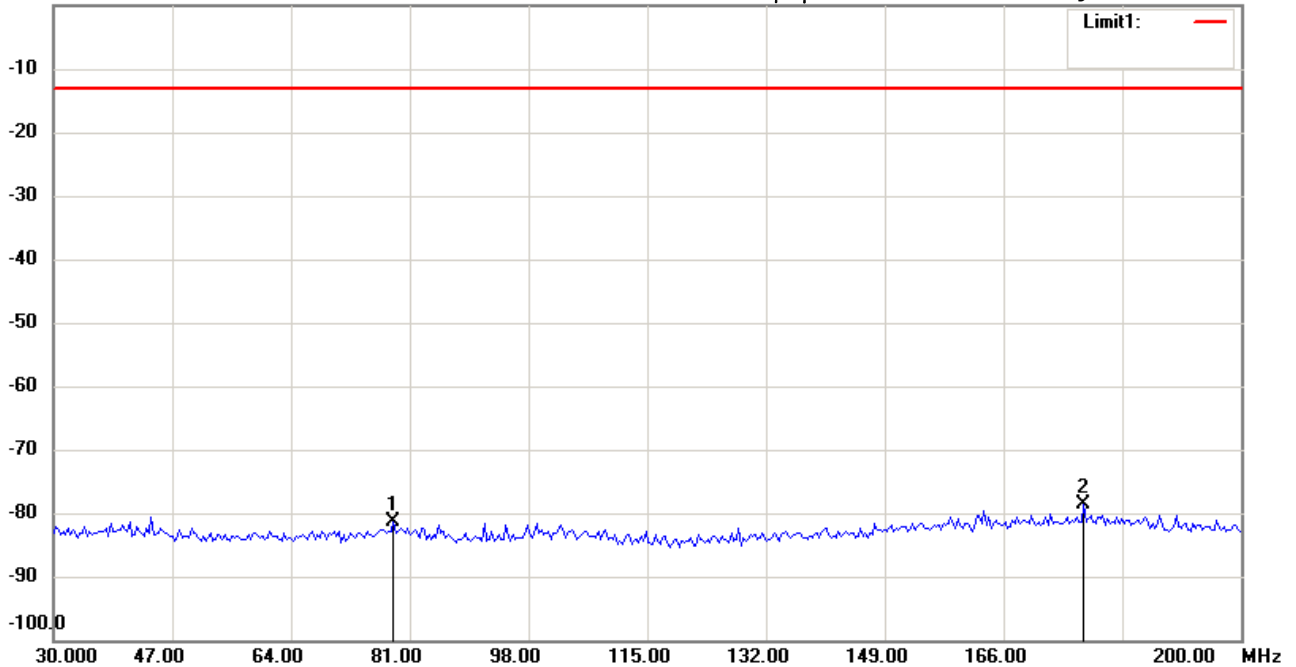
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:32:01

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	78.7174	-103.38	peak	21.93	-81.45	-13.00	150	250	-68.45	
*	177.5150	-101.45	peak	22.83	-78.62	-13.00	150	100	-65.62	

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

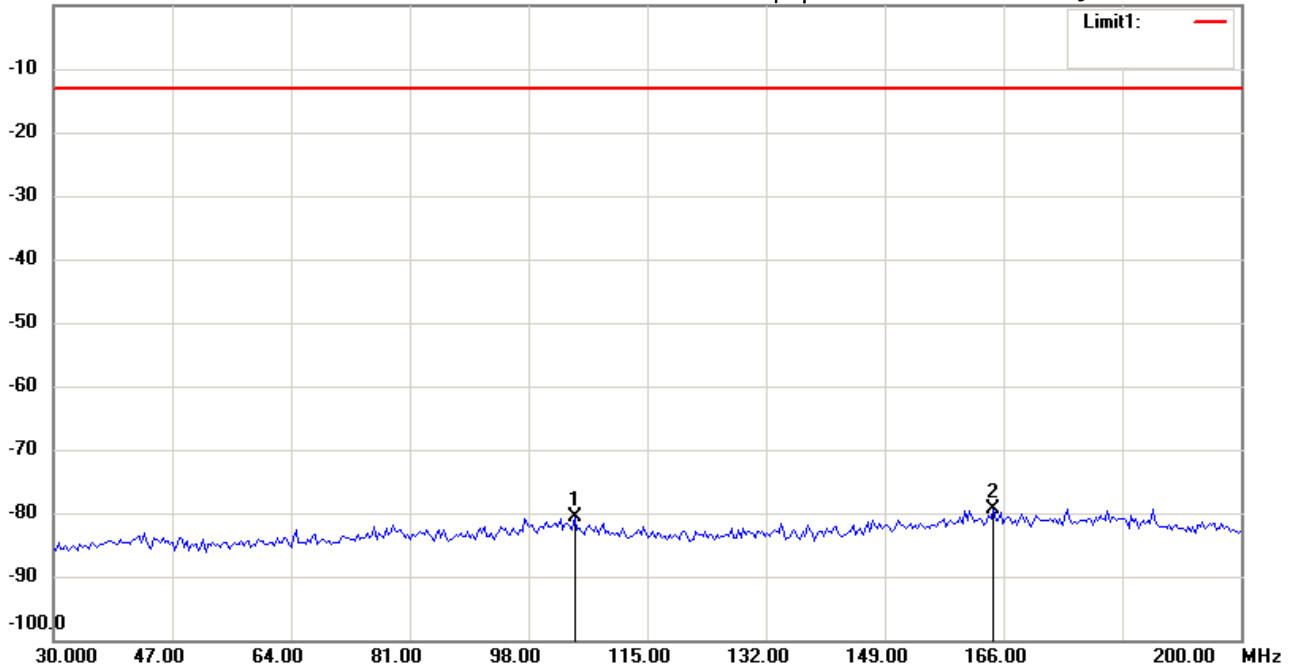
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:32:47

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	104.6092	-102.79	peak	22.13	-80.66	-13.00	150	210	-67.66	
*	164.5691	-102.46	peak	23.14	-79.32	-13.00	150	300	-66.32	

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

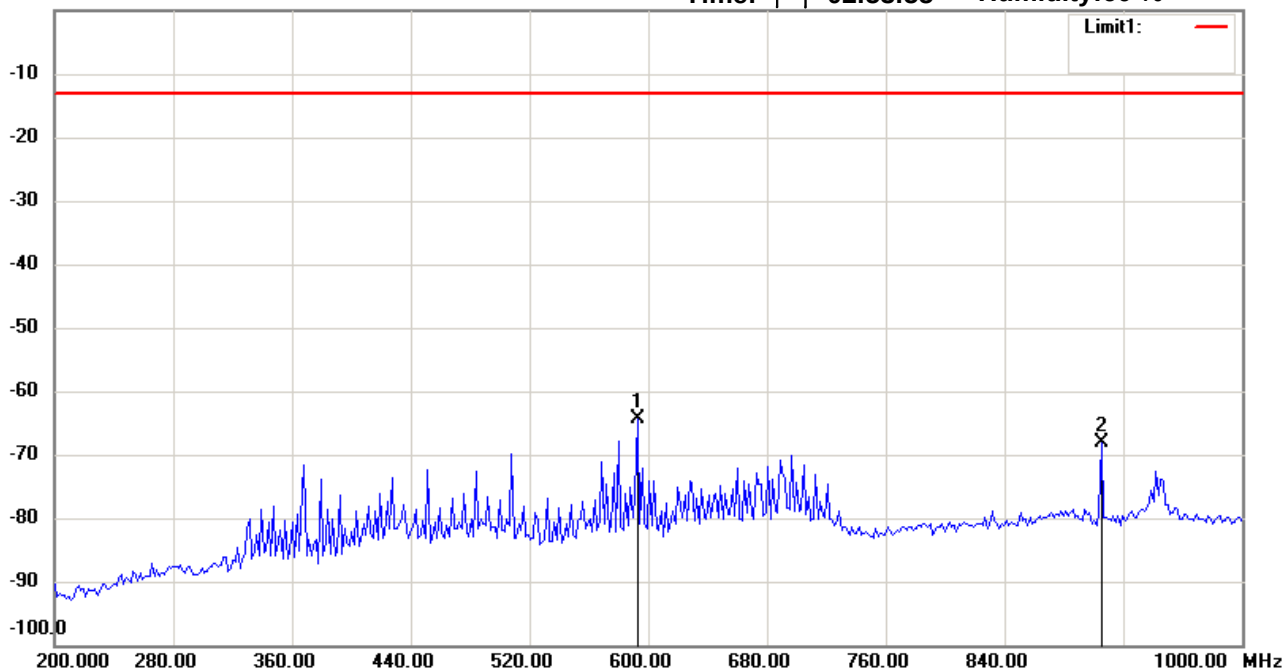
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 02:53:55

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	592.7856	-57.54	peak	-6.87	-64.41	-13.00	150	120	-51.41	
	905.4108	-66.02	peak	-2.00	-68.02	-13.00	150	300	-55.02	

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

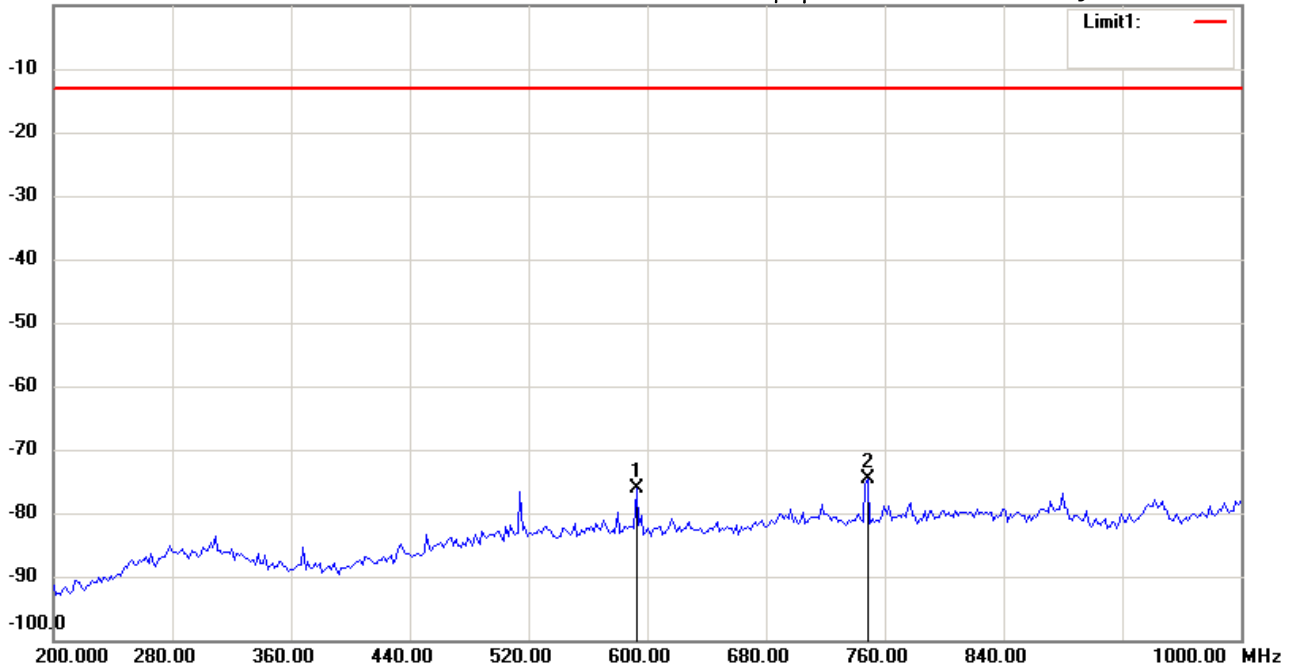
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 02:59:45

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	592.7856	-70.08	peak	-5.92	-76.00	-13.00	150	250	-63.00	
*	748.2965	-71.12	peak	-3.60	-74.72	-13.00	150	170	-61.72	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

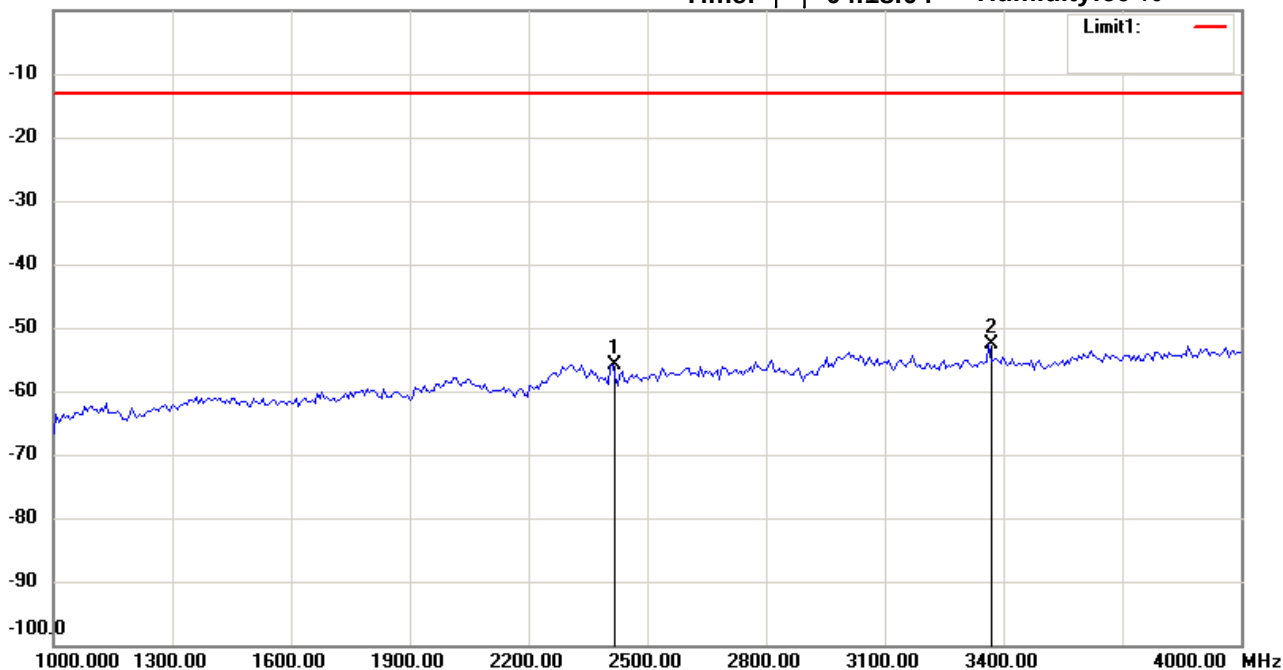
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:18:04

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2412.826	-59.79	peak	3.82	-55.97	-13.00	150	250	-42.97	
*	3362.726	-60.26	peak	7.62	-52.64	-13.00	150	110	-39.64	



Radiated Emission Measurement

Operator: Rick

File :3

Data :#5

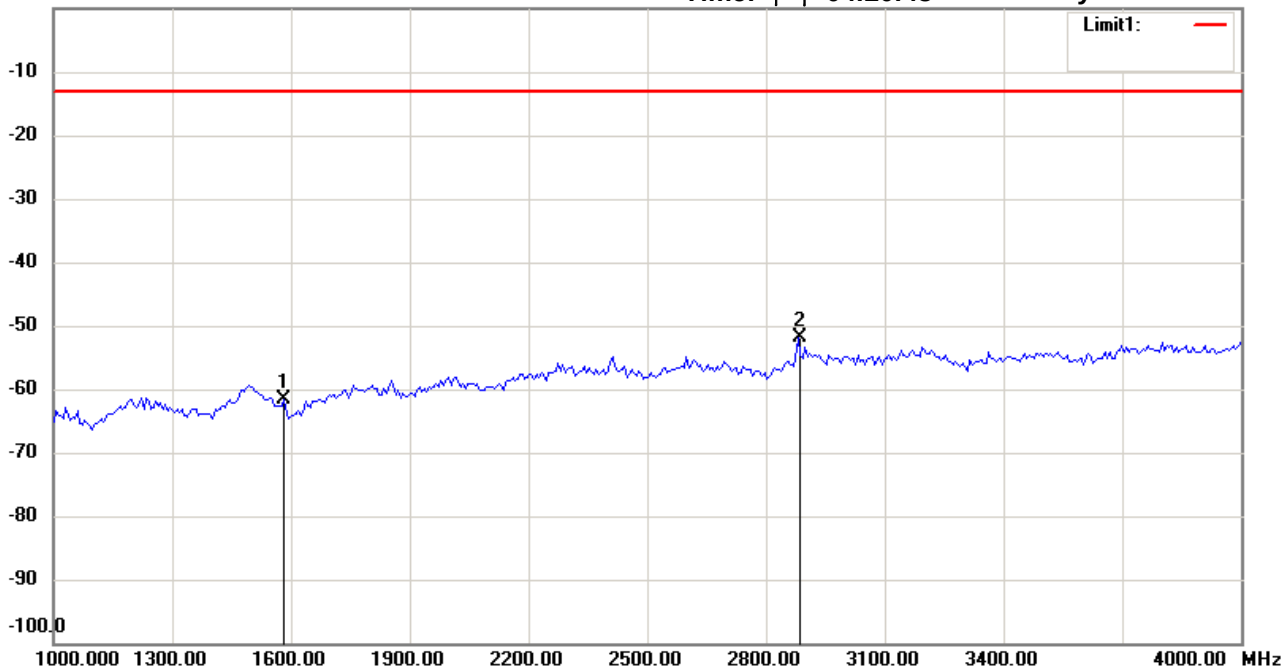
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:20:43

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 480.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1583.166	-60.02	peak	-1.65	-61.67	-13.00	150	250	-48.67	
*	2881.764	-58.92	peak	7.03	-51.89	-13.00	150	70	-38.89	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

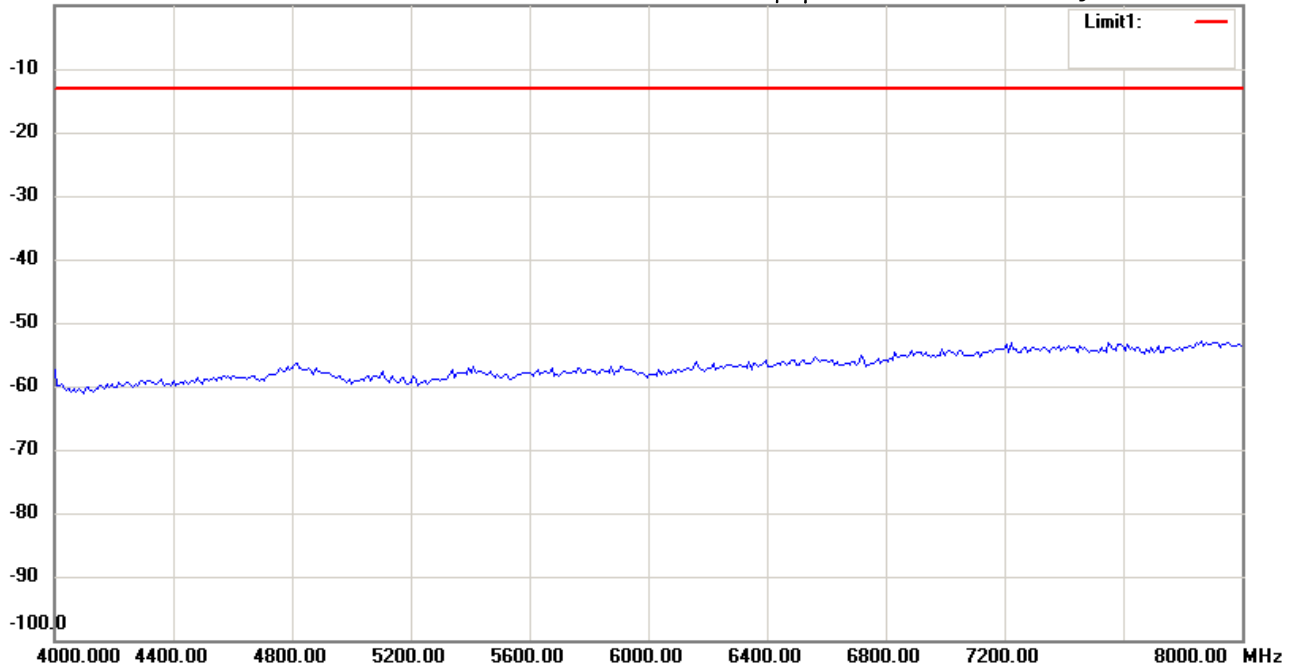
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:19:07

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#6

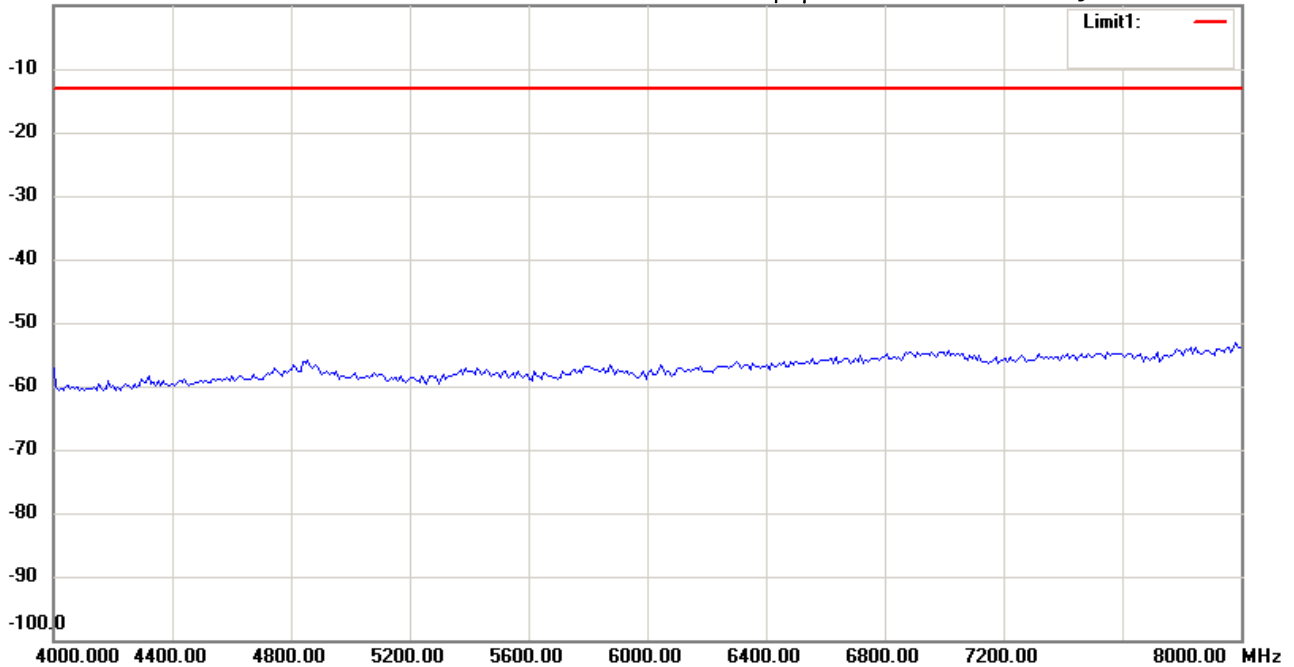
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:21:12

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 480.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

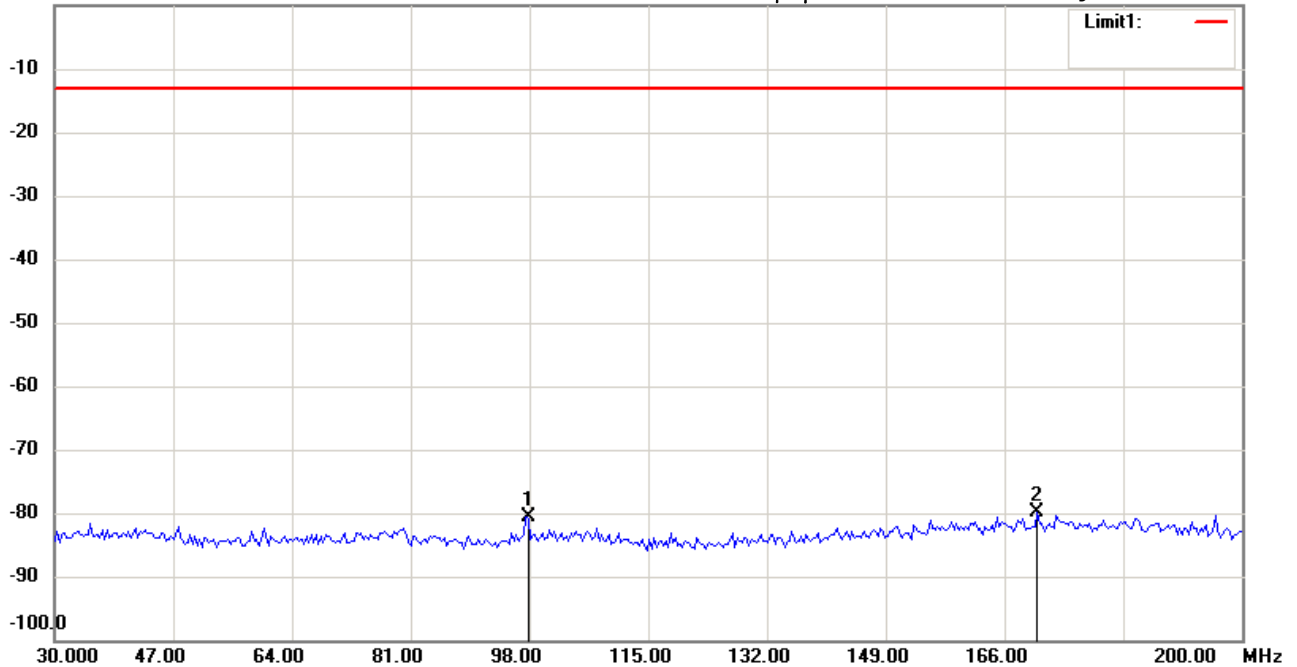
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:31:03

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.4550	-101.72	peak	21.11	-80.61	-13.00	150	220	-67.61	
*	170.7014	-102.65	peak	22.68	-79.97	-13.00	150	170	-66.97	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

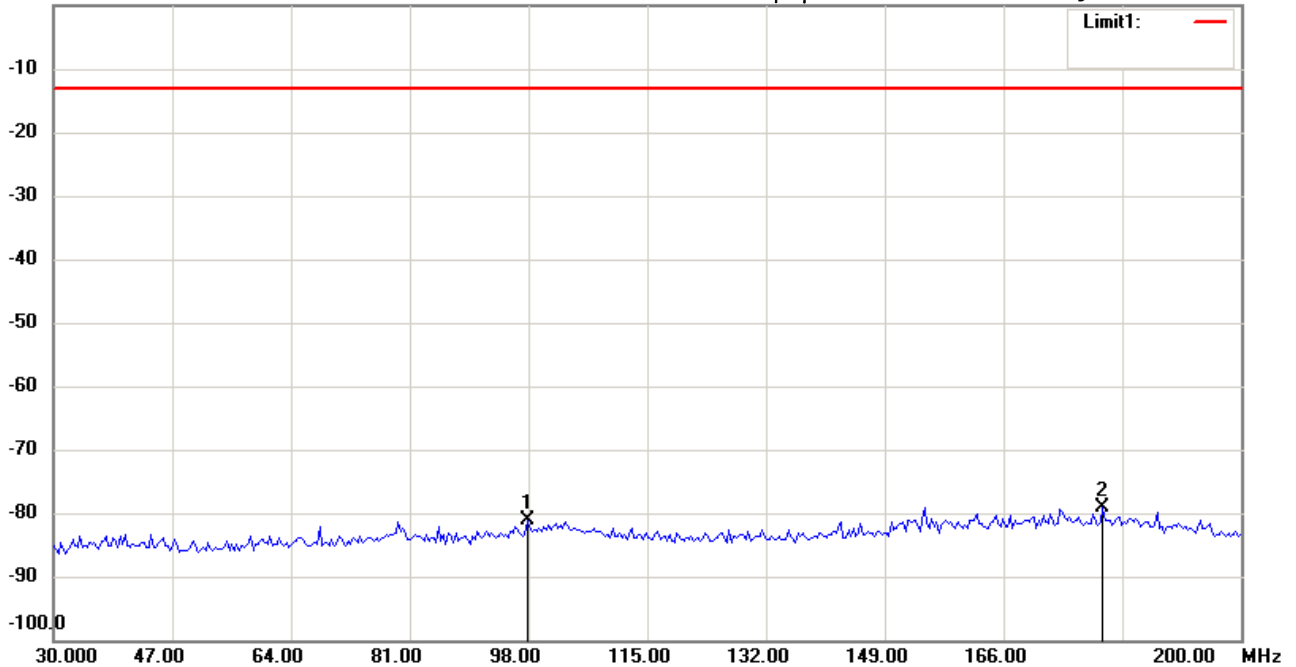
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:33:28

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-103.35	peak	22.16	-81.19	-13.00	150	250	-68.19	
*	180.2405	-102.23	peak	23.23	-79.00	-13.00	150	170	-66.00	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

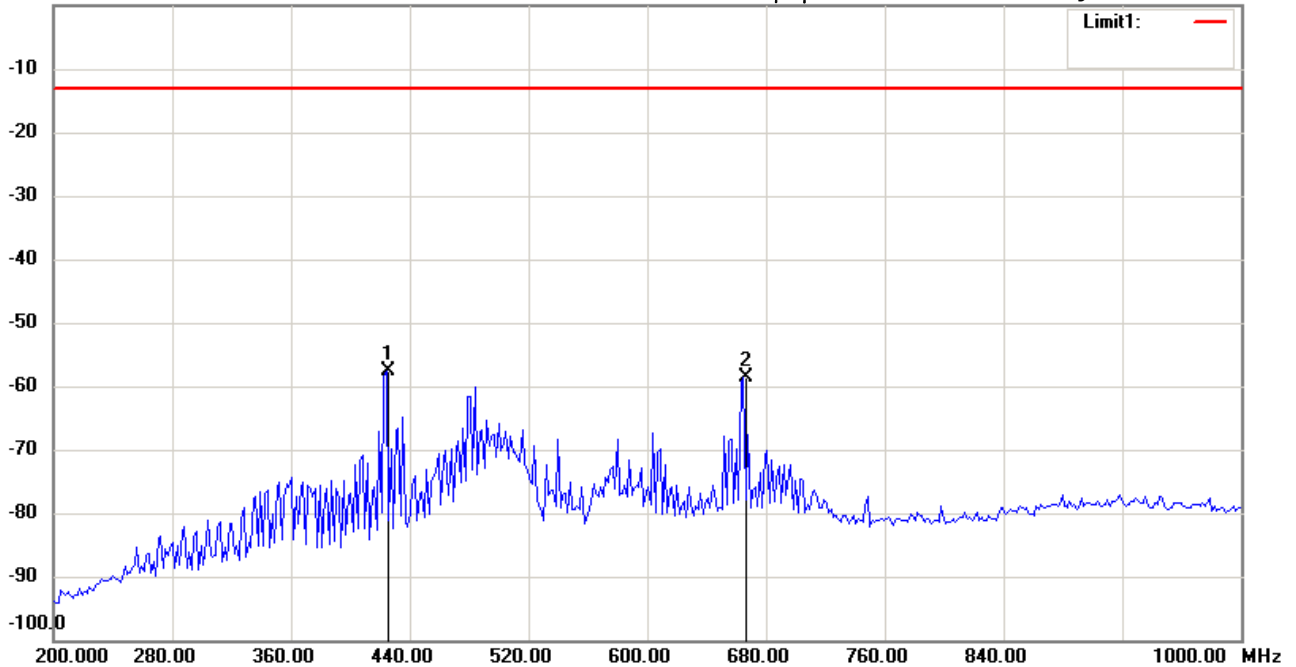
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:46:19

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	424.4490	-48.70	peak	-8.83	-57.53	-13.00	150	30	-44.53	
	664.9300	-56.04	peak	-2.56	-58.60	-13.00	150	210	-45.60	

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



Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

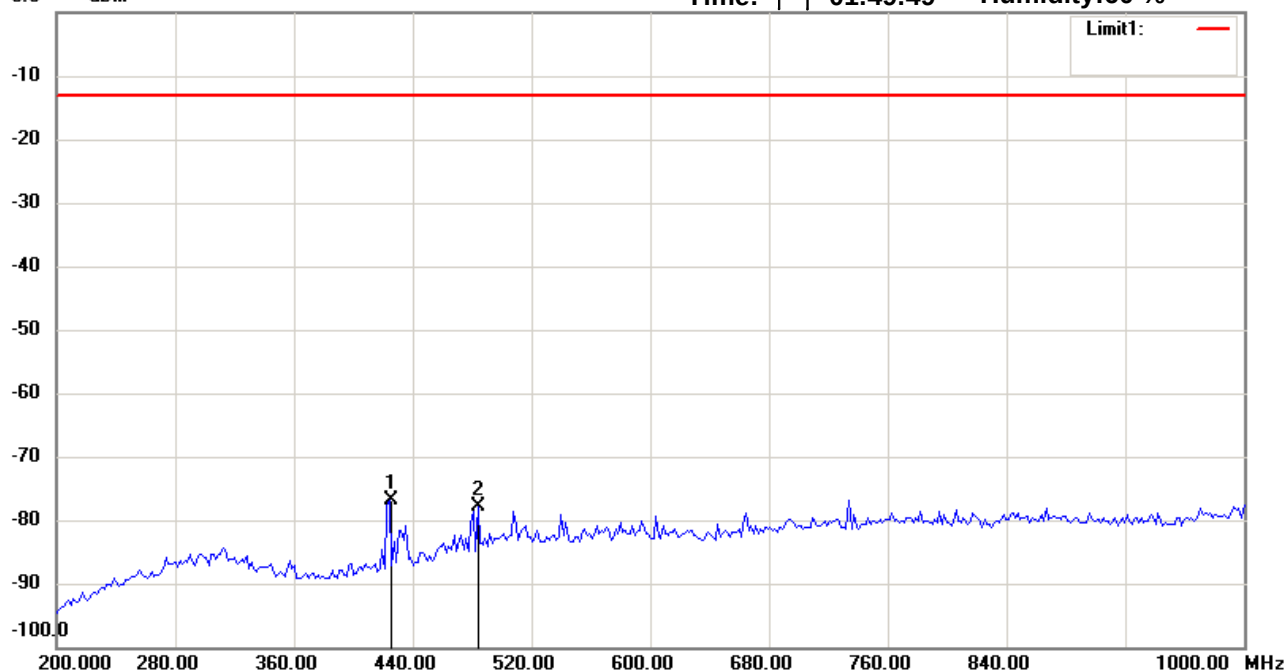
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:49:49

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	424.4490	-65.94	peak	-10.92	-76.86	-13.00	150	300	-63.86	
	483.7675	-69.68	peak	-8.21	-77.89	-13.00	150	120	-64.89	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

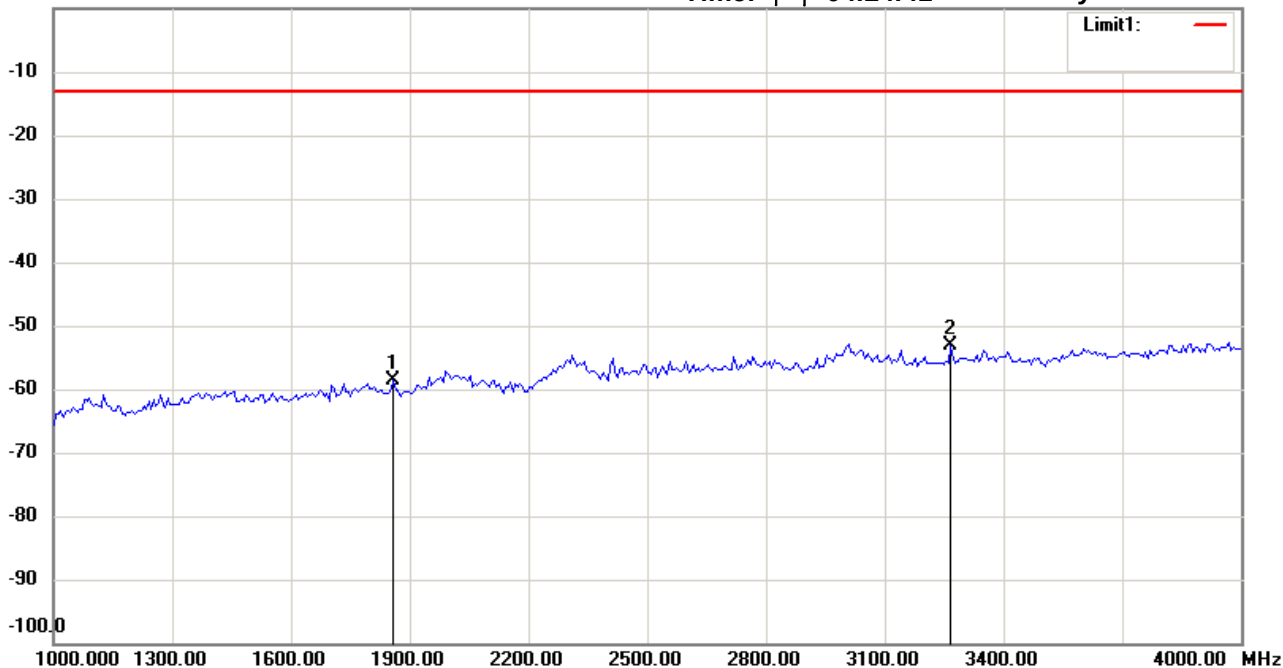
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:24:41

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1859.719	-59.85	peak	1.35	-58.50	-13.00	150	250	-45.50	
*	3266.533	-60.27	peak	7.18	-53.09	-13.00	150	70	-40.09	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

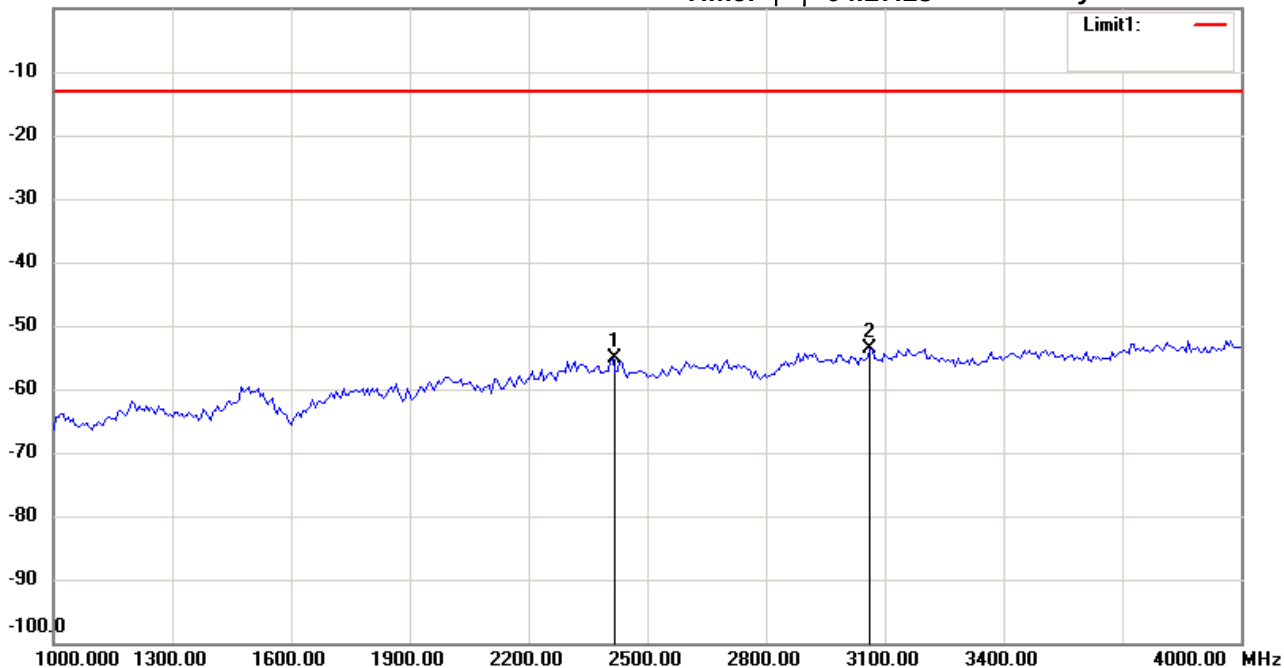
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:27:28

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2412.826	-59.52	peak	4.39	-55.13	-13.00	150	70	-42.13	
*	3062.124	-60.52	peak	7.02	-53.50	-13.00	150	150	-40.50	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

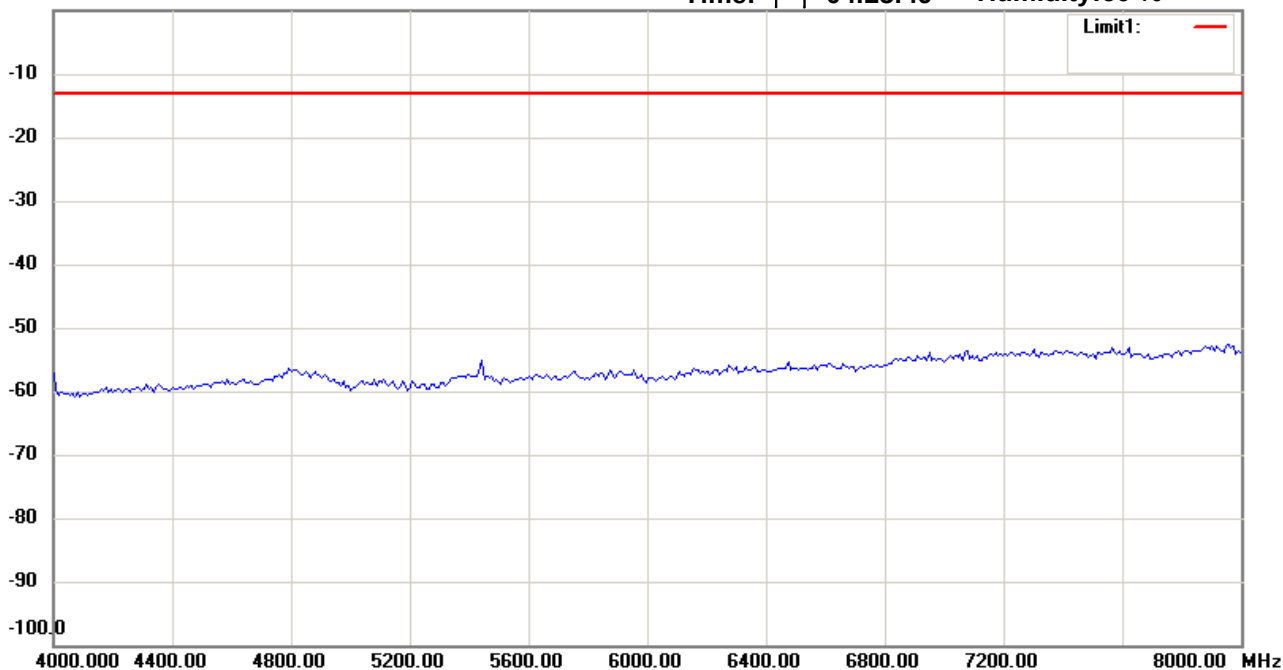
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:25:49

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 544MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

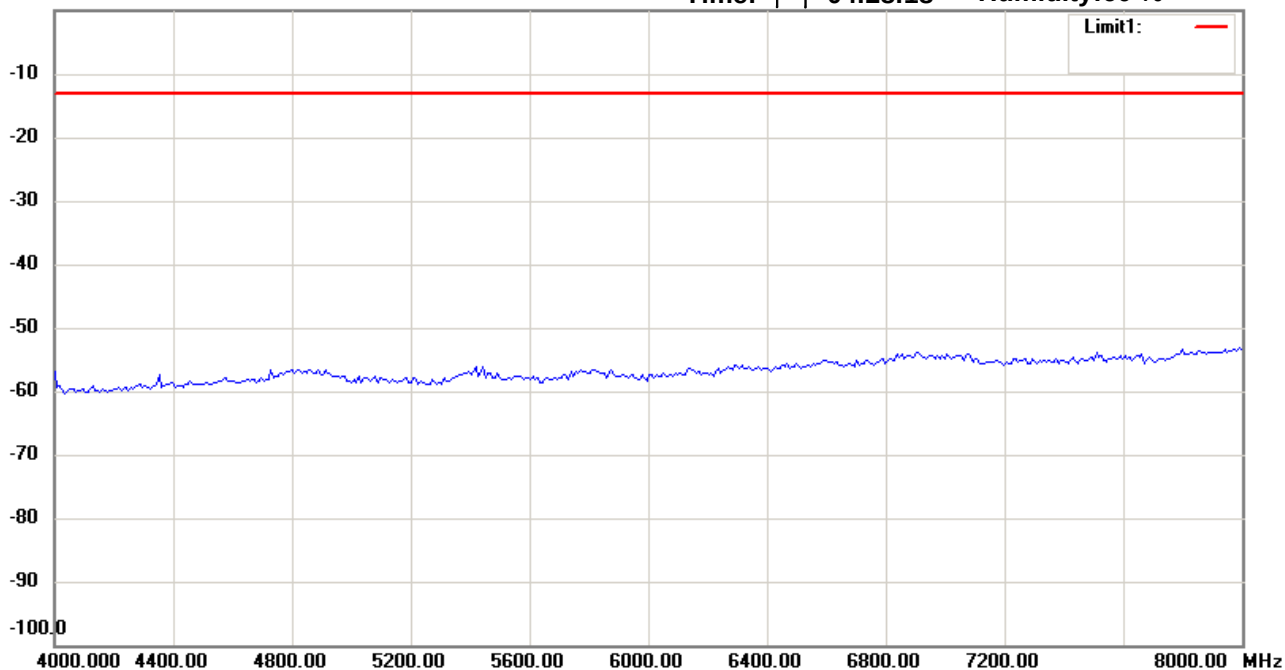
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:28:18

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 544MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:30:10

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-102.58	peak	21.13	-81.45	-13.00	150	250	-68.45	
*	176.4930	-102.06	peak	22.80	-79.26	-13.00	150	100	-66.26	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

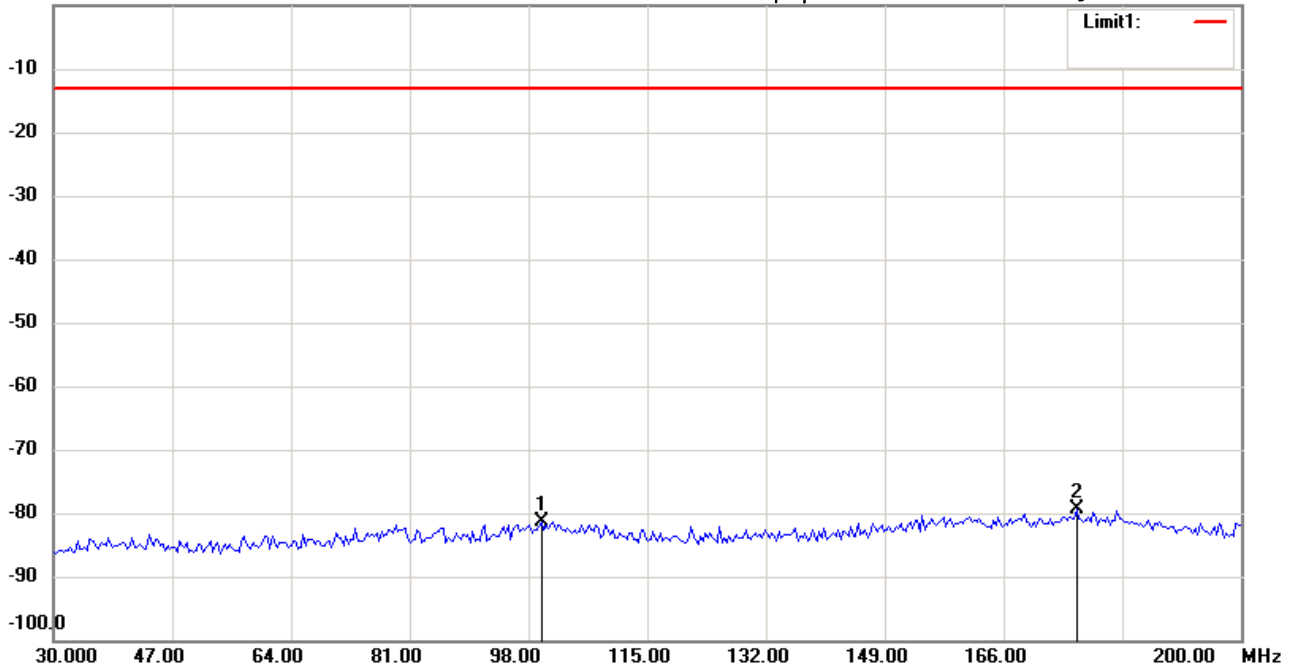
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:33:58

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	99.8397	-103.74	peak	22.38	-81.36	-13.00	150	250	-68.36	
*	176.4930	-102.71	peak	23.23	-79.48	-13.00	150	100	-66.48	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

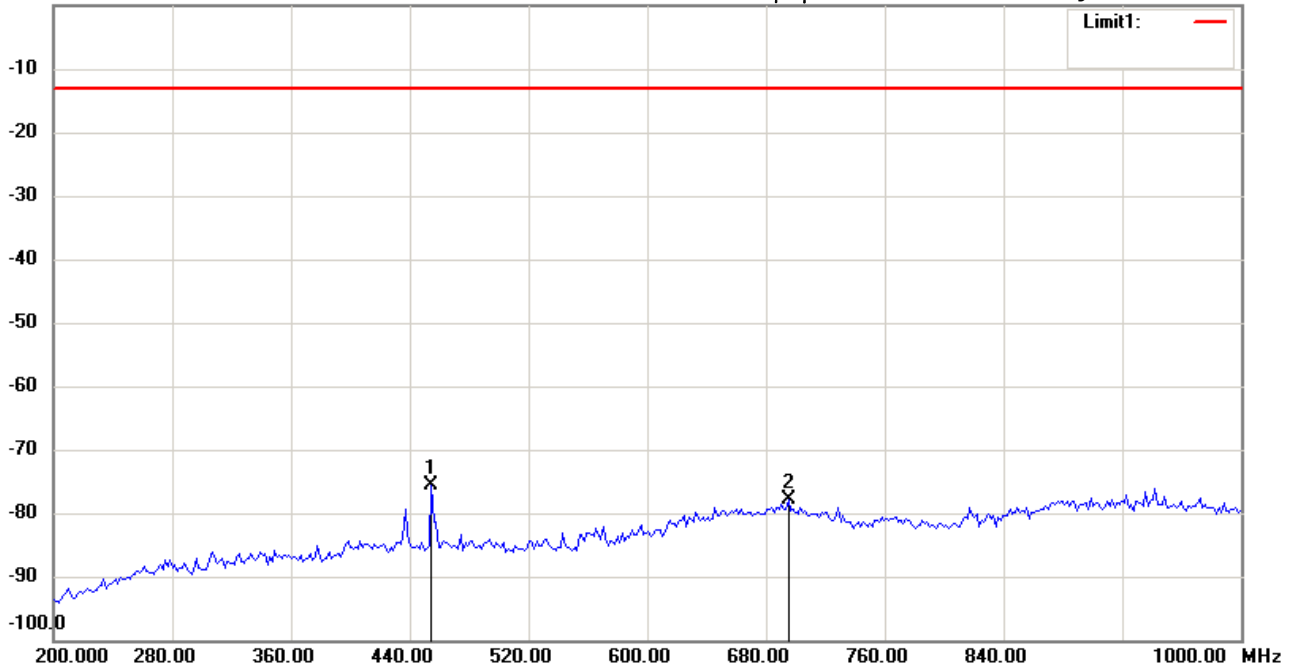
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:20:35

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	454.9098	-66.54	peak	-9.11	-75.65	-13.00	150	110	-62.65	
	695.3908	-75.62	peak	-2.28	-77.90	-13.00	150	280	-64.90	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

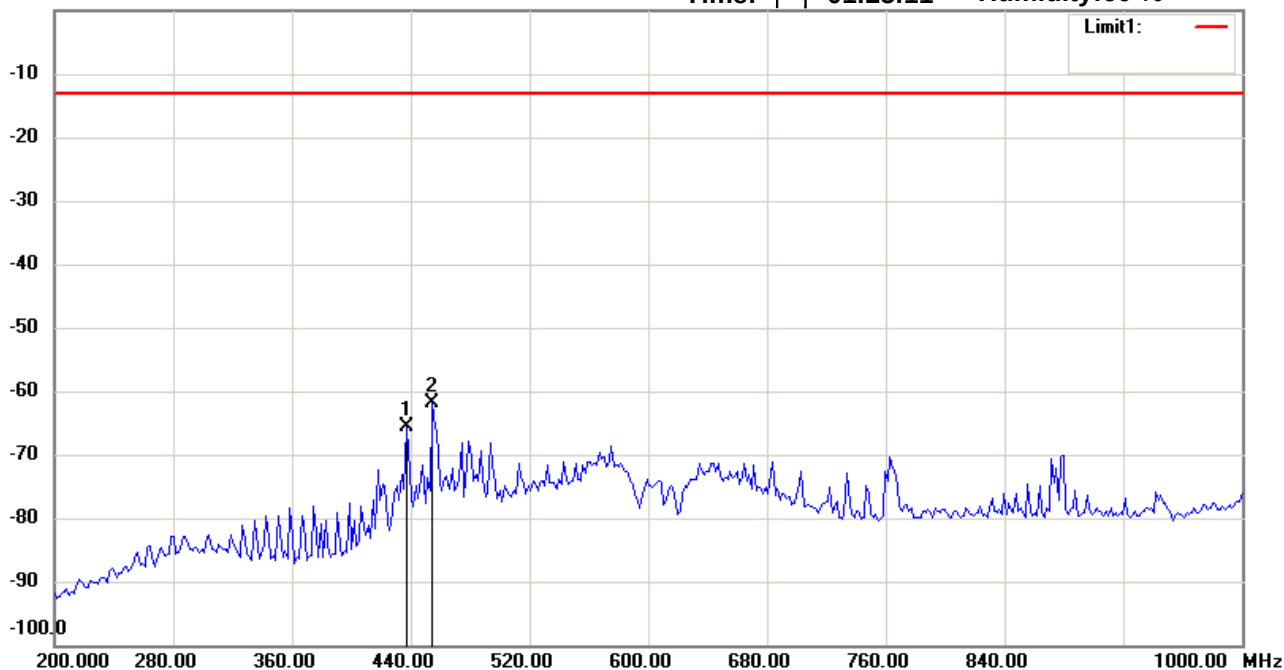
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:25:11

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	437.2745	-54.83	peak	-10.76	-65.59	-13.00	150	120	-52.59	
*	454.9098	-52.45	peak	-9.42	-61.87	-13.00	150	100	-48.87	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

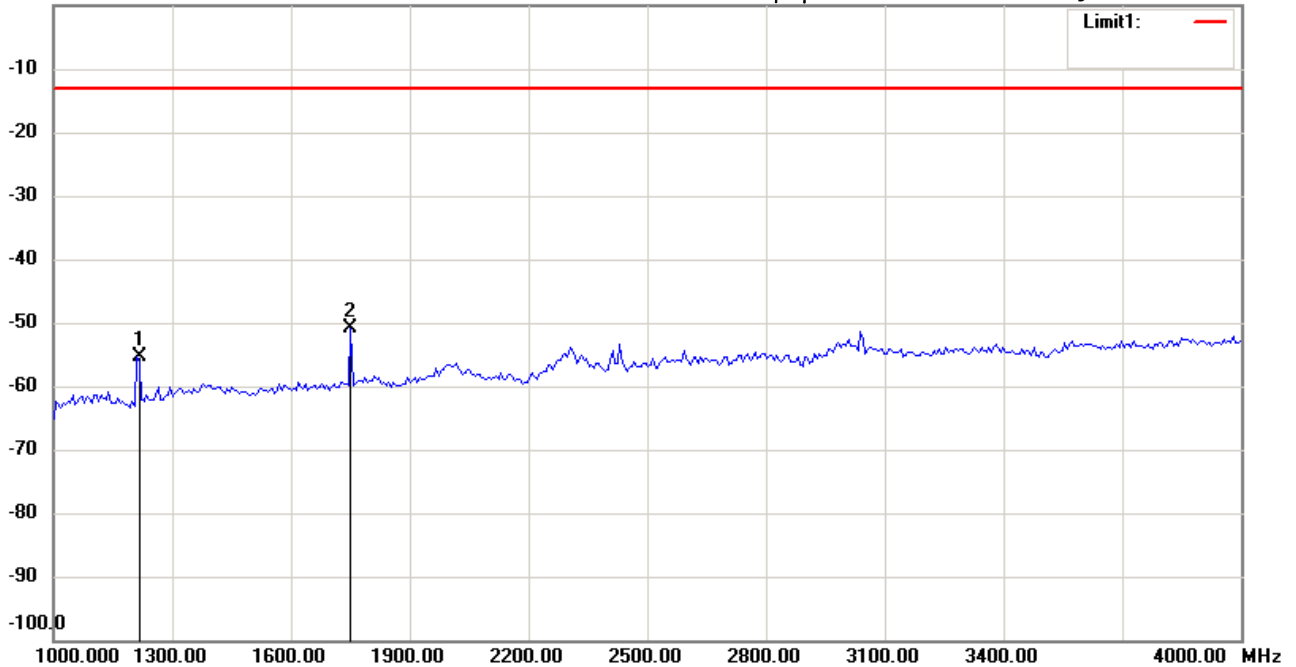
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:10:33

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1210.421	-54.26	peak	-1.06	-55.32	-13.00	150	100	-42.32	
*	1751.503	-52.23	peak	1.33	-50.90	-13.00	150	250	-37.90	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

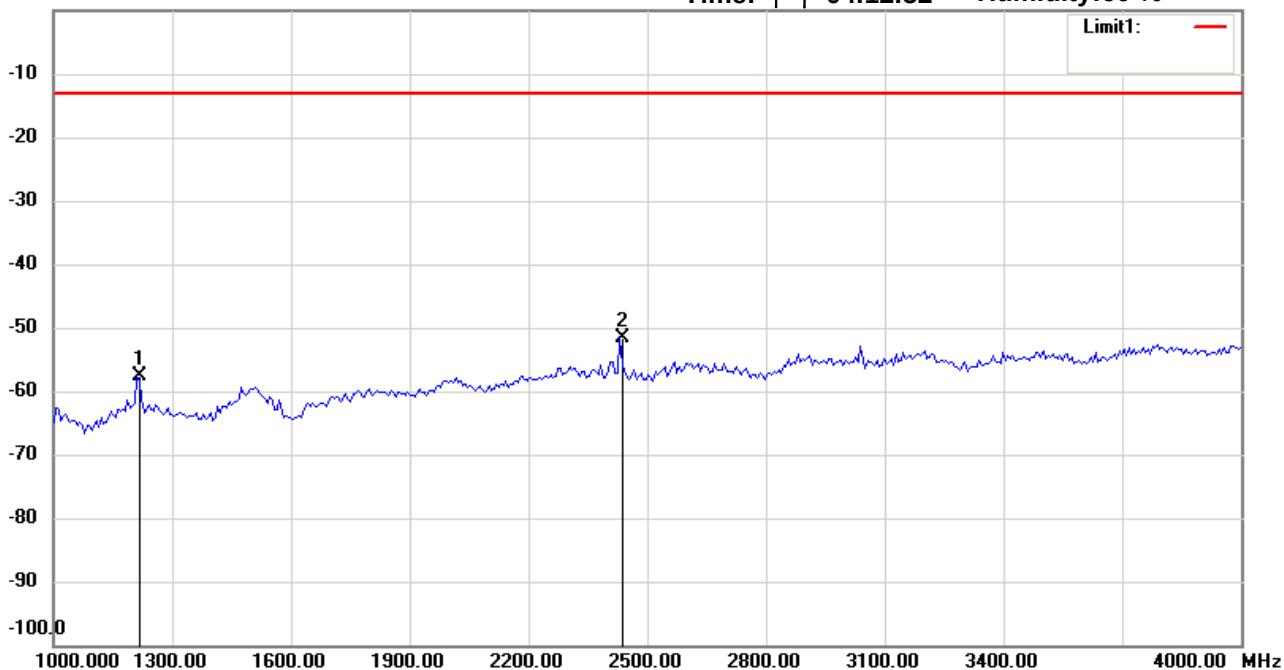
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:12:52

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 607.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1210.421	-57.95	peak	0.32	-57.63	-13.00	150	250	-44.63	
*	2430.862	-55.94	peak	4.35	-51.59	-13.00	150	110	-38.59	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

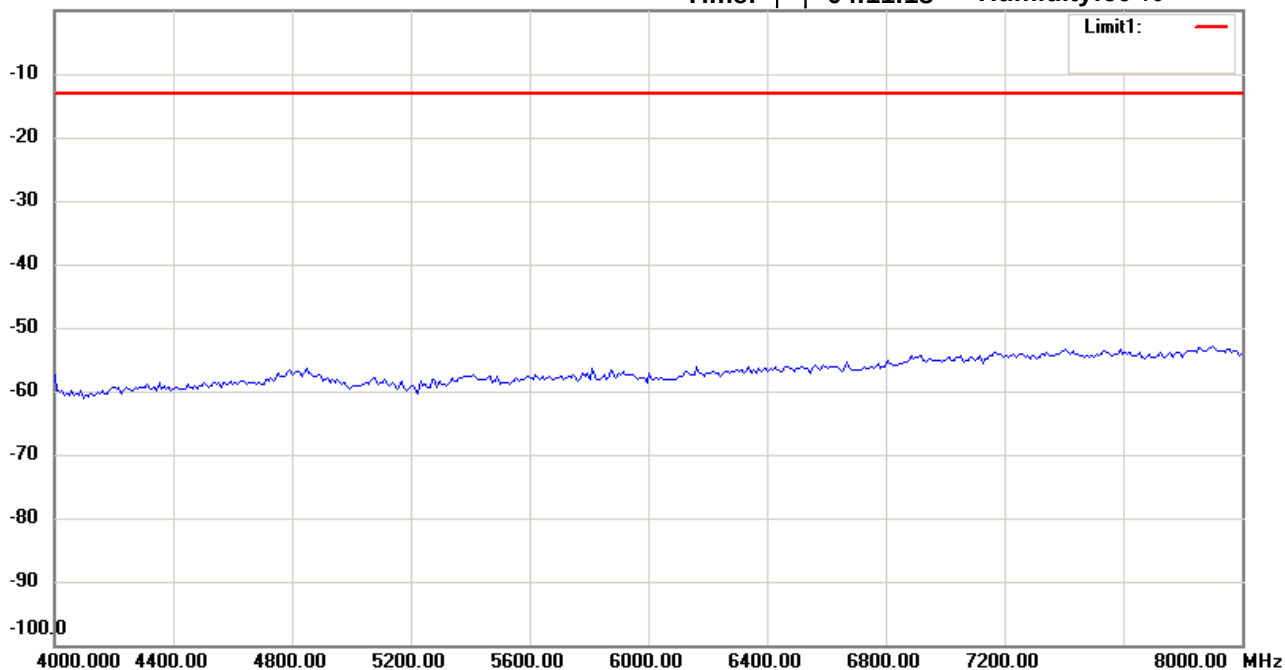
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:11:18

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

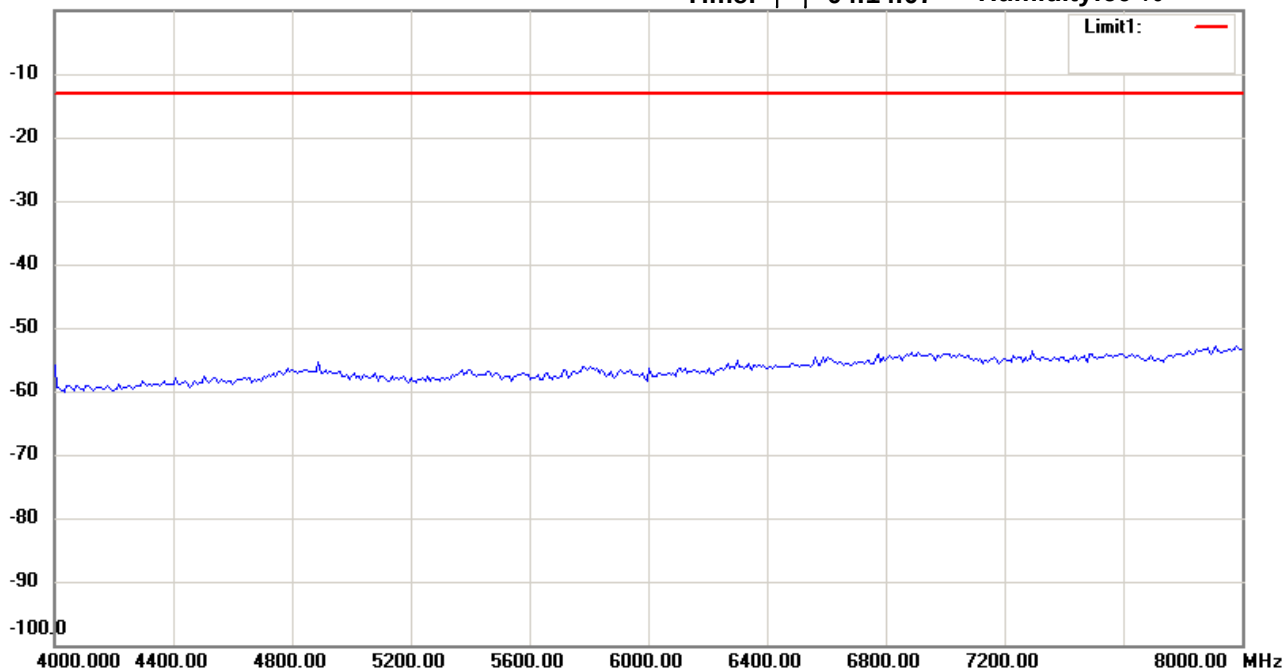
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:14:07

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 607.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

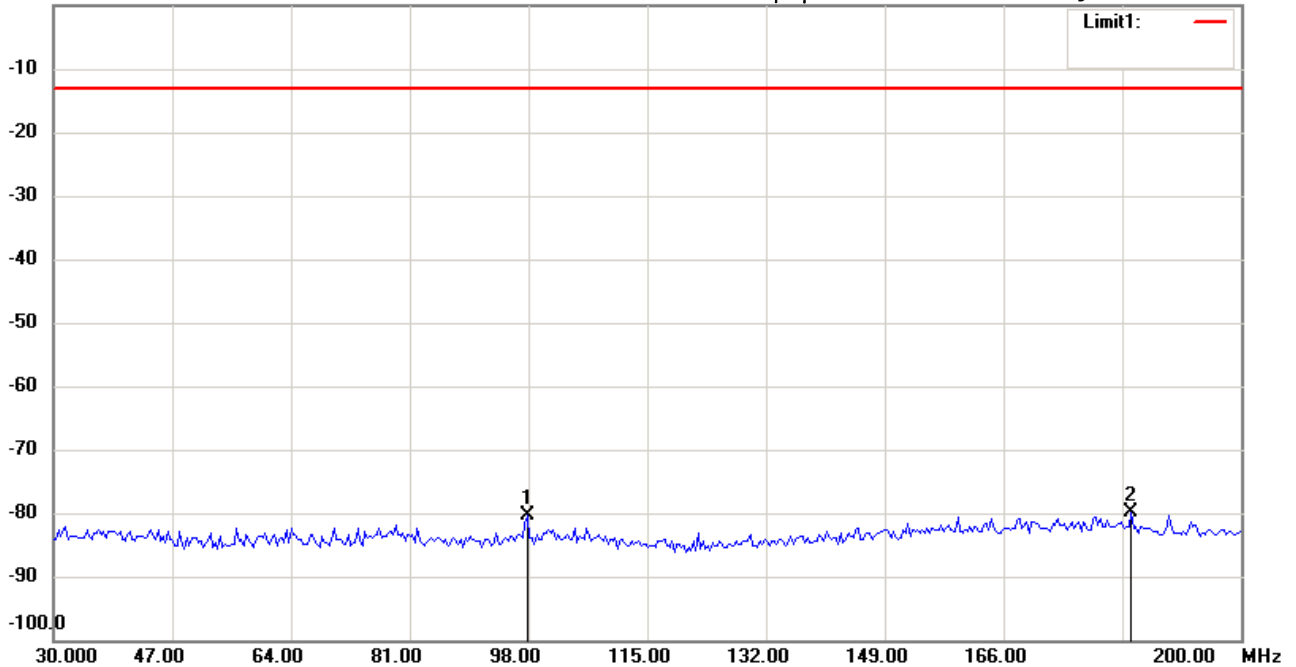
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:28:36

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-101.61	peak	21.13	-80.48	-13.00	150	220	-67.48	
*	184.3287	-102.27	peak	22.46	-79.81	-13.00	150	70	-66.81	

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



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

Operator: Rick

File :1

Data :#2

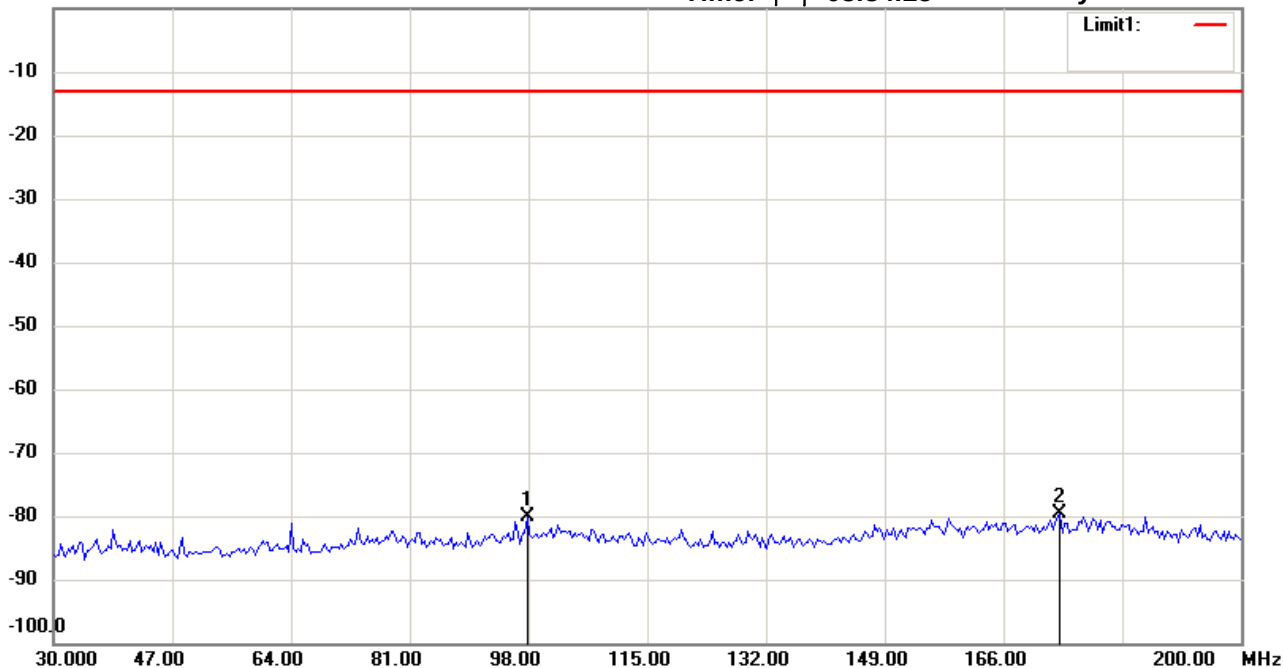
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:34:25

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: Vertical

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-102.32	peak	22.16	-80.16	-13.00	150	170	-67.16	
*	174.1082	-102.92	peak	23.21	-79.71	-13.00	150	220	-66.71	

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



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

Operator: Rick

File :2

Data :#1

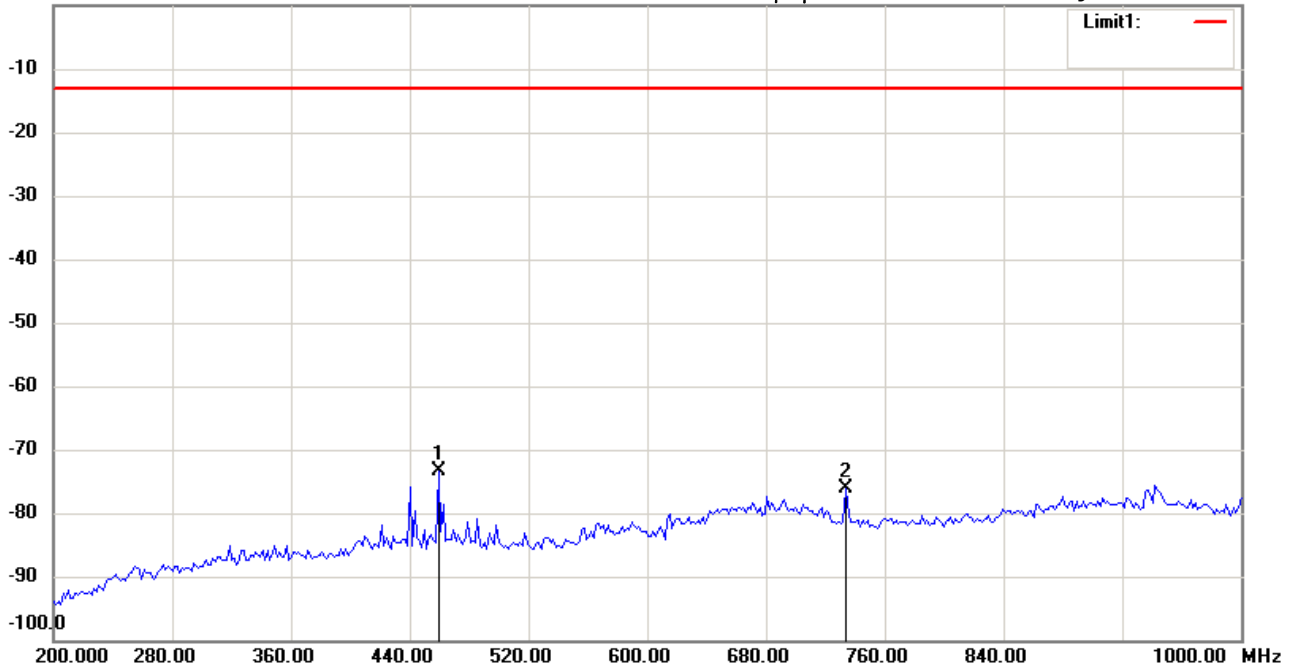
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:12:17

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	459.7194	-64.39	peak	-8.94	-73.33	-13.00	150	300	-60.33	
	733.8677	-72.00	peak	-4.10	-76.10	-13.00	150	220	-63.10	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

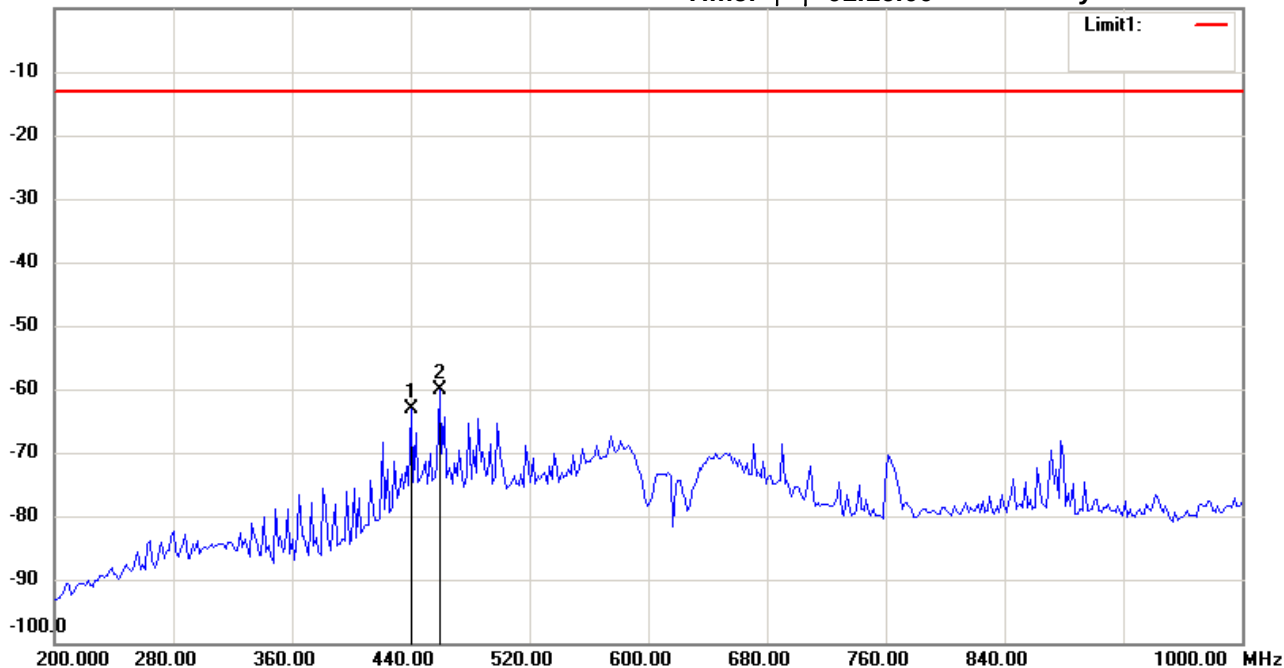
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:16:00

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	440.4810	-52.38	peak	-10.69	-63.07	-13.00	150	250	-50.07	
*	459.7194	-51.13	peak	-8.99	-60.12	-13.00	150	100	-47.12	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

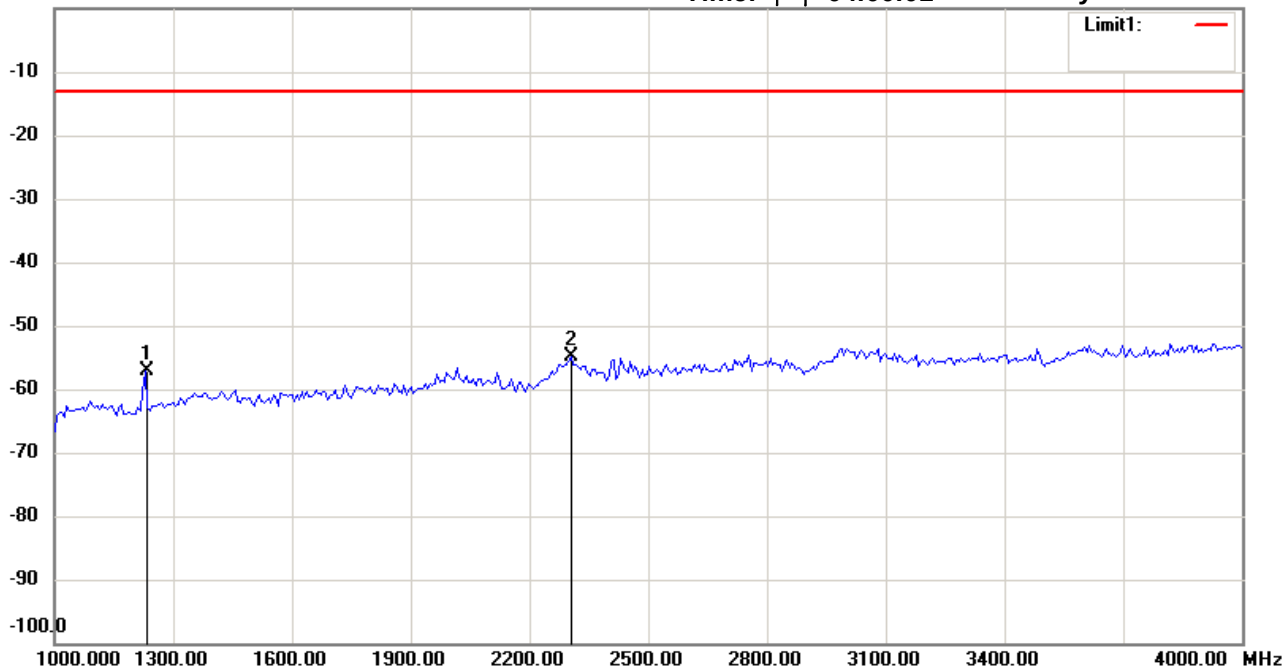
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:00:01

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1228.457	-56.42	peak	-0.80	-57.22	-13.00	150	100	-44.22	
*	2304.609	-60.90	peak	6.06	-54.84	-13.00	150	230	-41.84	



Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

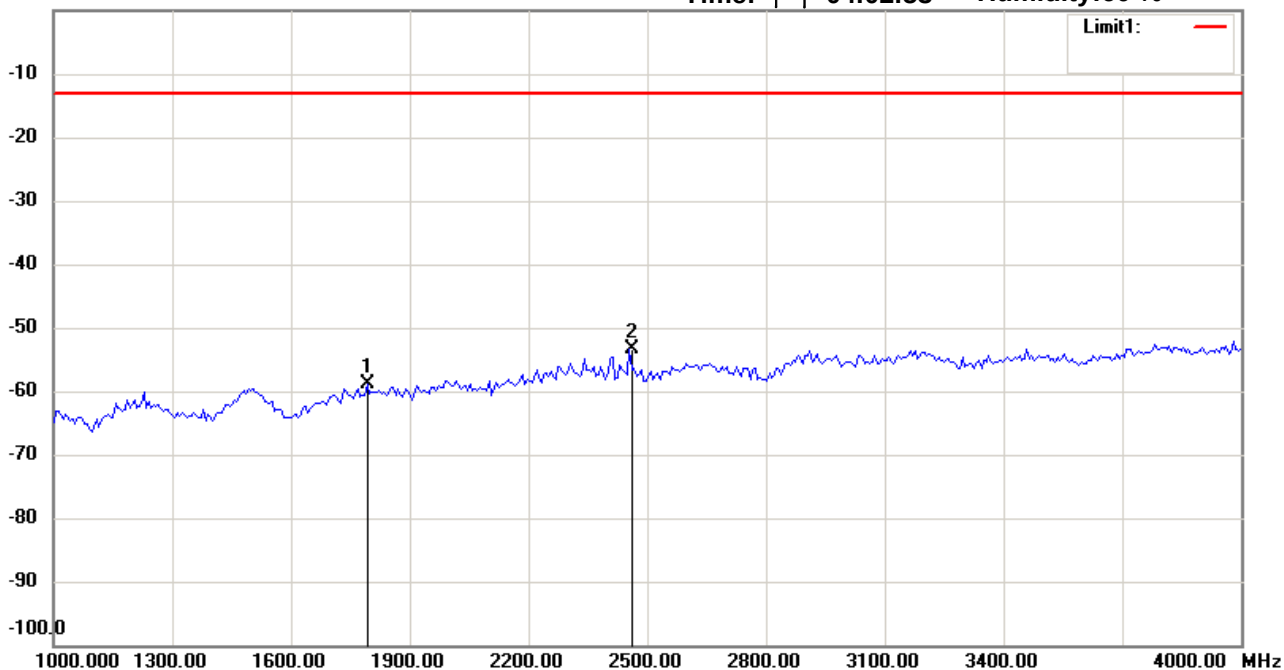
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:02:53

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 614.1MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1793.587	-60.26	peak	1.35	-58.91	-13.00	150	280	-45.91	
*	2454.910	-57.60	peak	4.29	-53.31	-13.00	150	120	-40.31	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

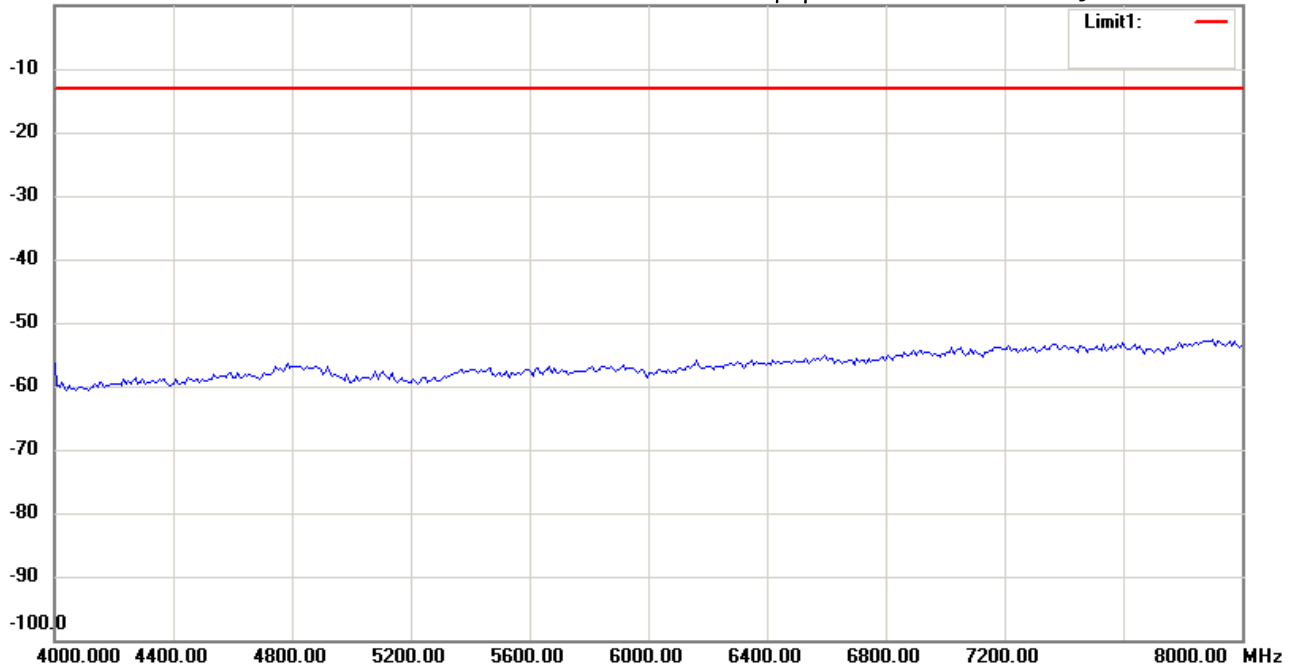
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:01:31

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

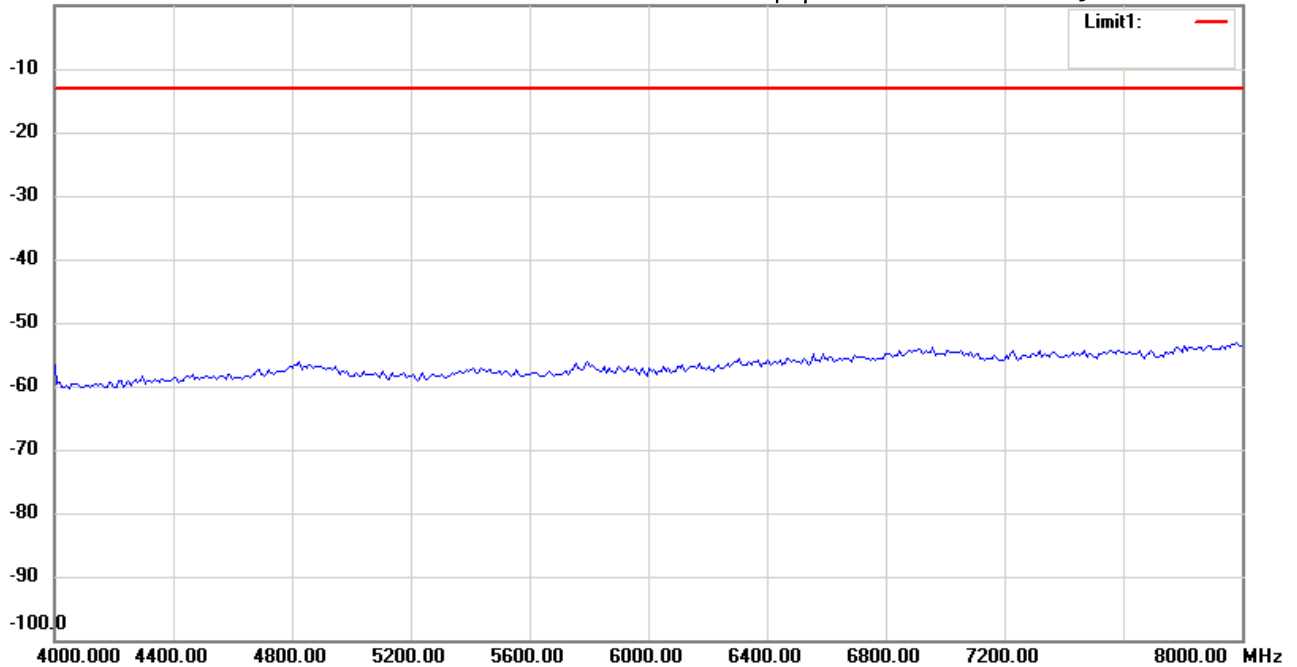
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 04:03:57

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 614.1MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

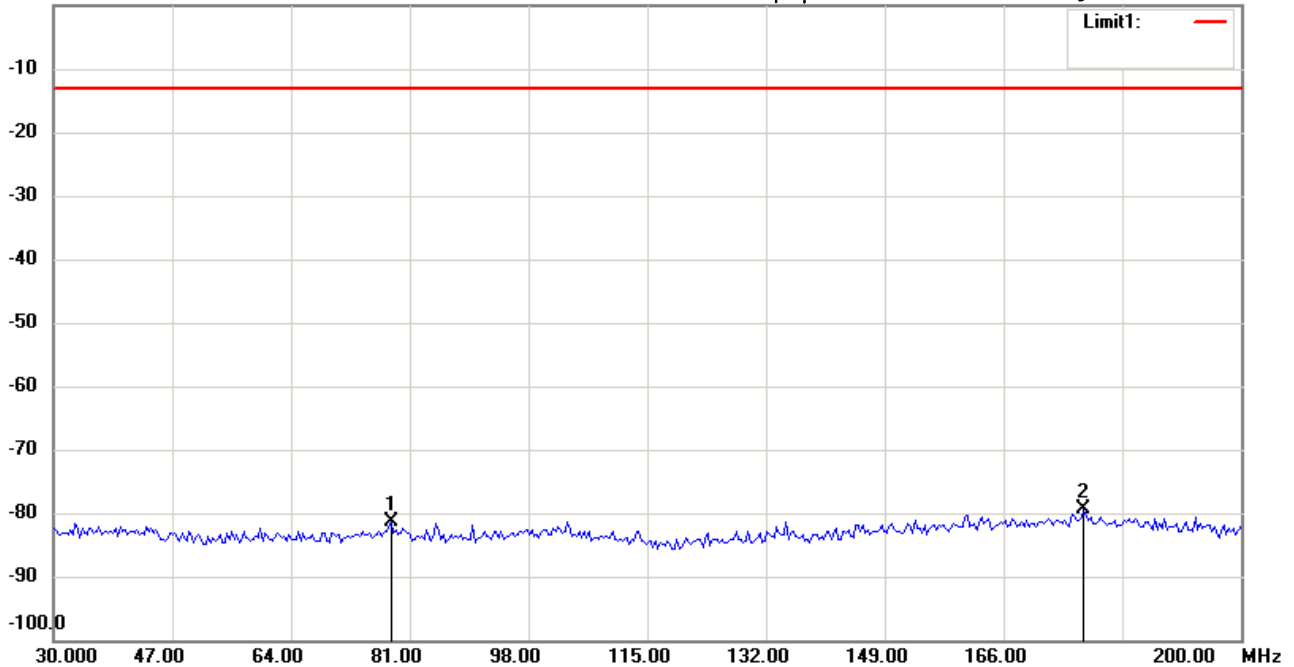
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:27:40

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	78.3768	-103.16	peak	21.89	-81.27	-13.00	150	220	-68.27	
*	177.5150	-102.18	peak	22.83	-79.35	-13.00	150	170	-66.35	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

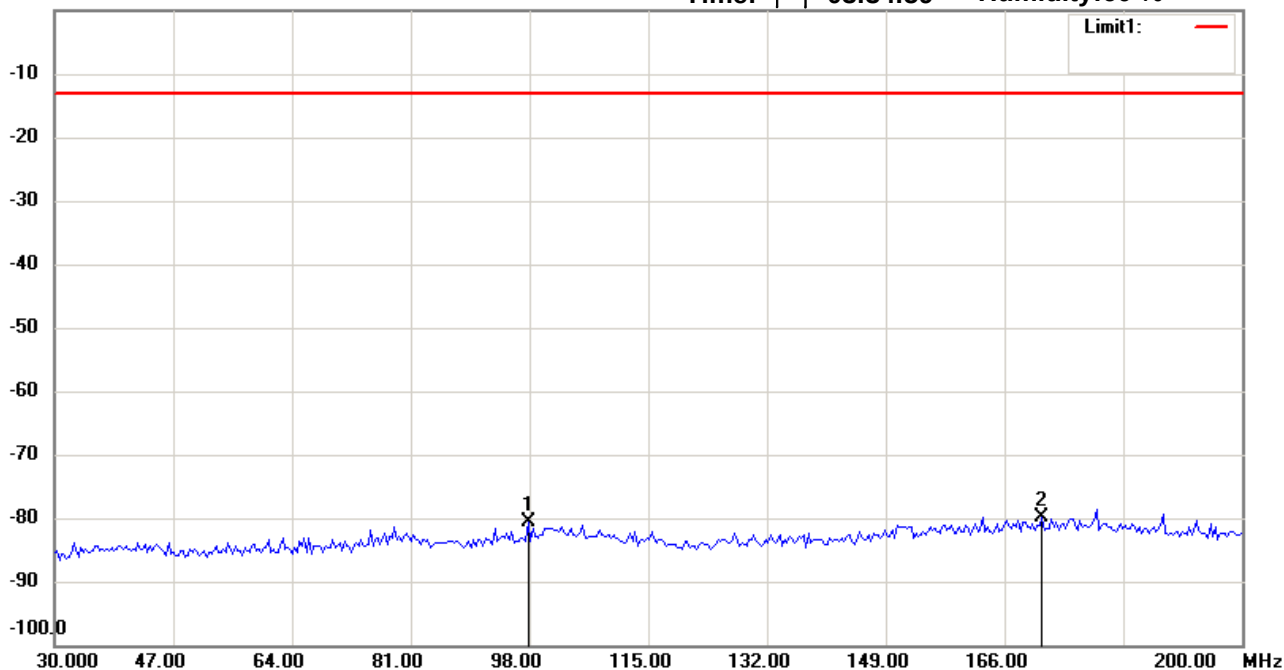
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:34:59

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	97.7956	-102.67	peak	22.16	-80.51	-13.00	150	280	-67.51	
*	171.3828	-103.03	peak	23.19	-79.84	-13.00	150	110	-66.84	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

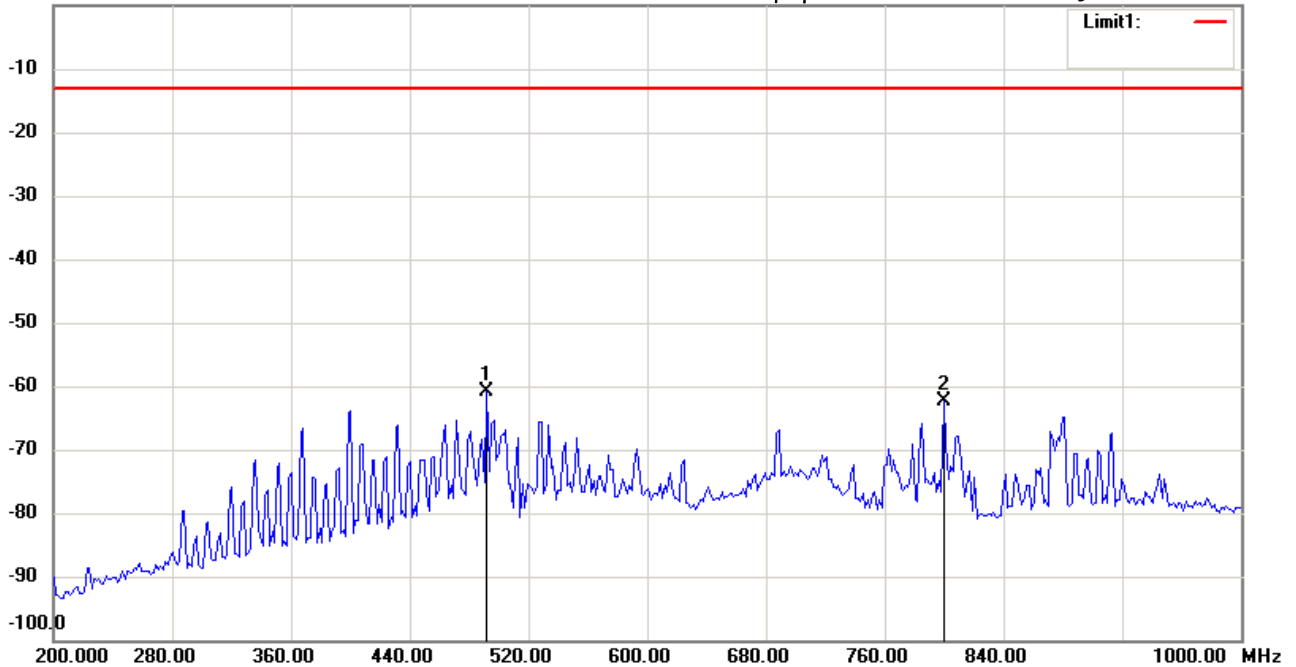
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 02:38:06

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	491.7836	-51.84	peak	-9.12	-60.96	-13.00	150	100	-47.96	
	799.5992	-57.95	peak	-4.53	-62.48	-13.00	150	250	-49.48	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

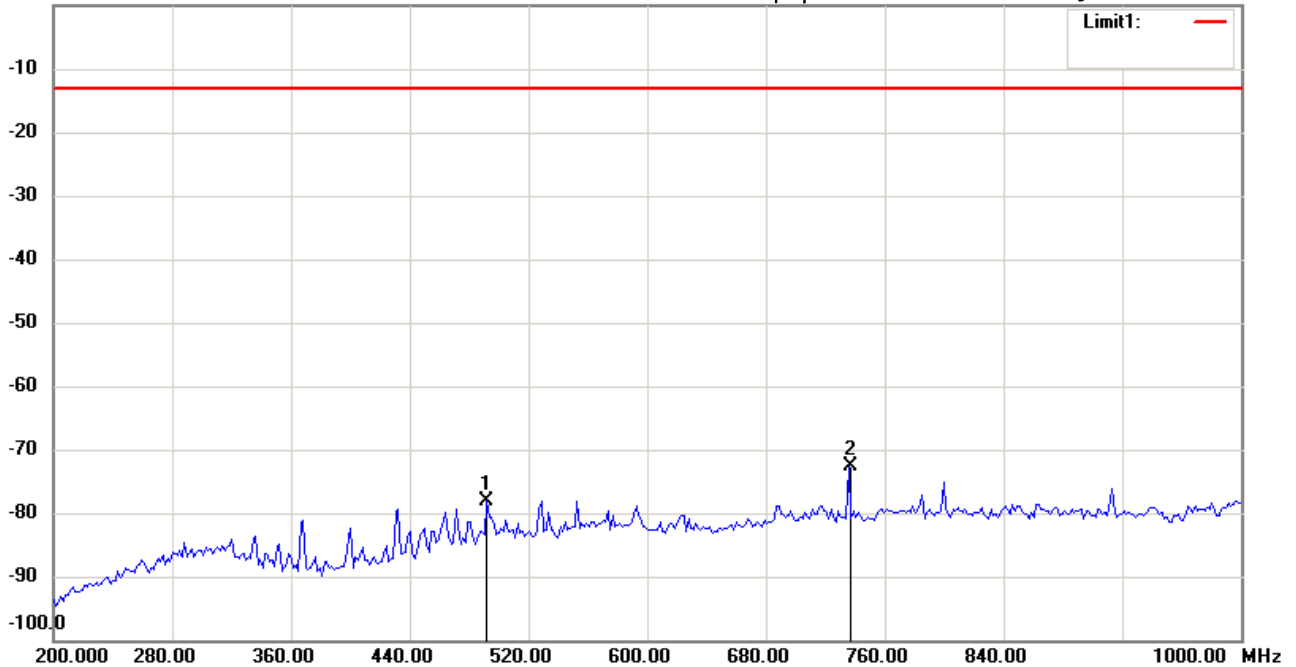
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 02:40:11

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	491.7836	-70.28	peak	-7.78	-78.06	-13.00	150	110	-65.06	
*	735.4710	-69.17	peak	-3.57	-72.74	-13.00	150	320	-59.74	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

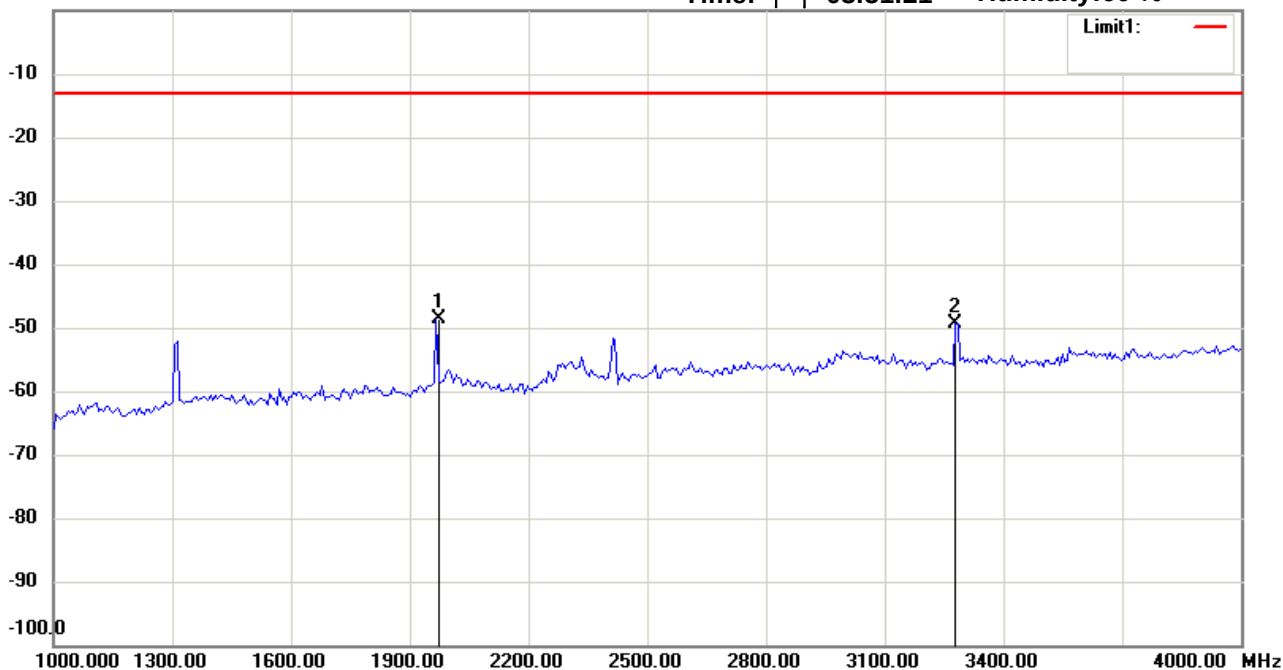
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:51:21

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1967.936	-51.78	peak	3.18	-48.60	-13.00	150	250	-35.60	
	3278.557	-56.70	peak	7.29	-49.41	-13.00	150	100	-36.41	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

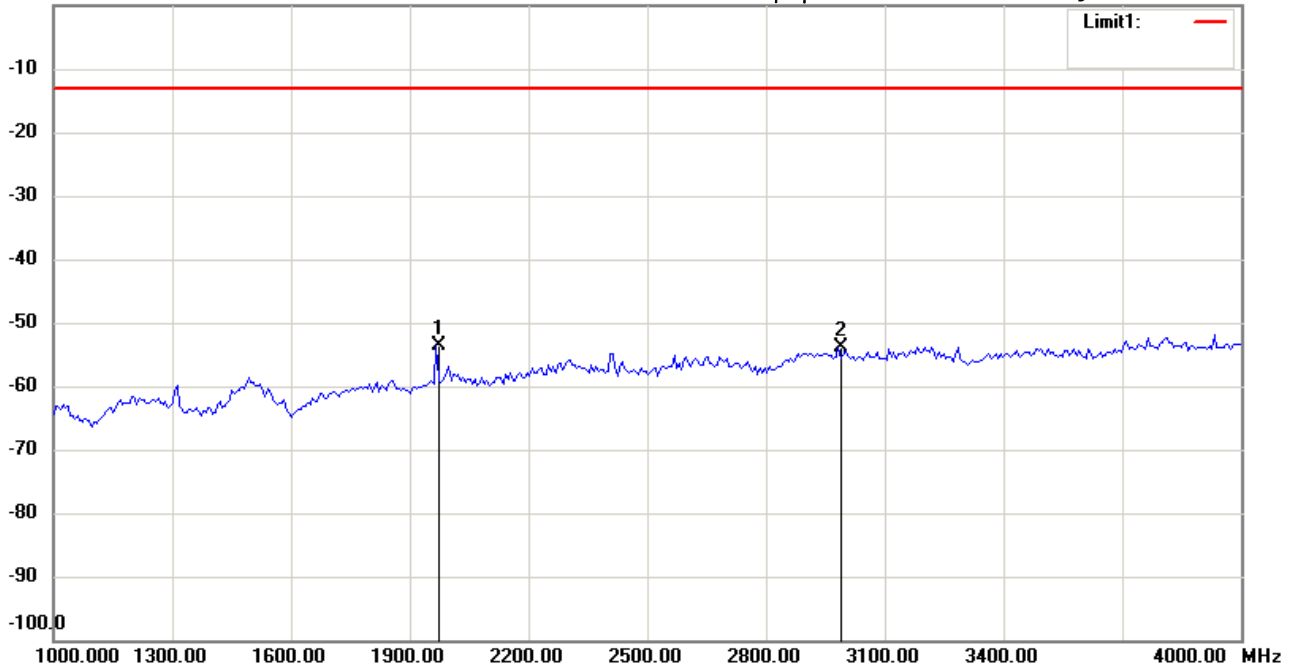
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:55:15

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1967.936	-56.35	peak	2.61	-53.74	-13.00	150	100	-40.74	
	2983.968	-61.03	peak	7.11	-53.92	-13.00	150	230	-40.92	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

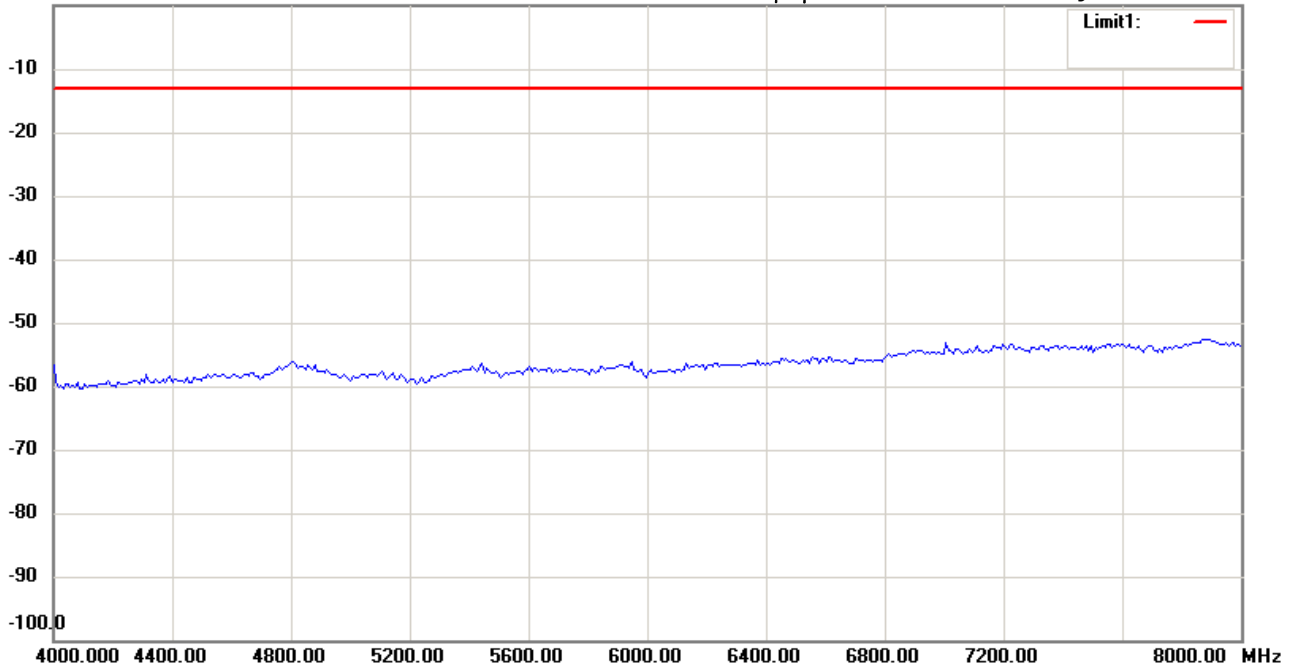
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:53:24

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 656MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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

Operator: Rick

File :3

Data :#4

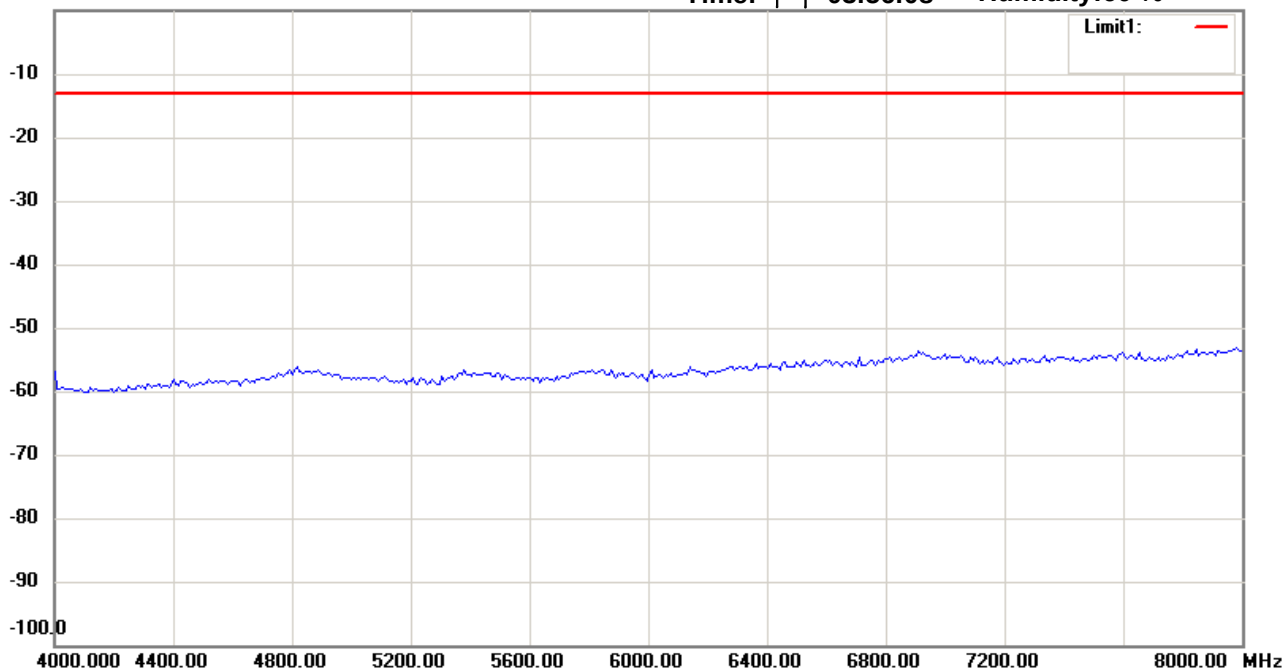
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:56:08

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 656MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:25:49

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	101.8838	-102.19	peak	21.14	-81.05	-13.00	150	230	-68.05	
*	159.4590	-103.41	peak	22.40	-81.01	-13.00	150	100	-68.01	



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

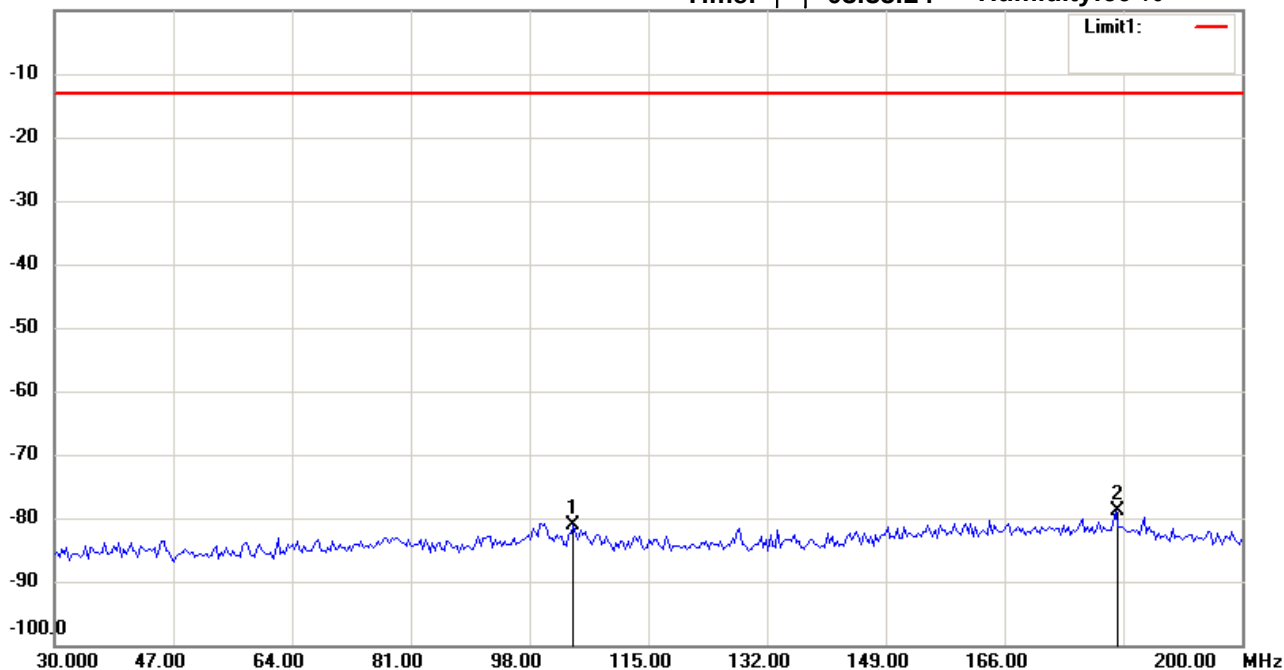
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:35:24

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	104.2685	-103.38	peak	22.15	-81.23	-13.00	150	70	-68.23	
*	181.9440	-101.80	peak	23.05	-78.75	-13.00	150	220	-65.75	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#1

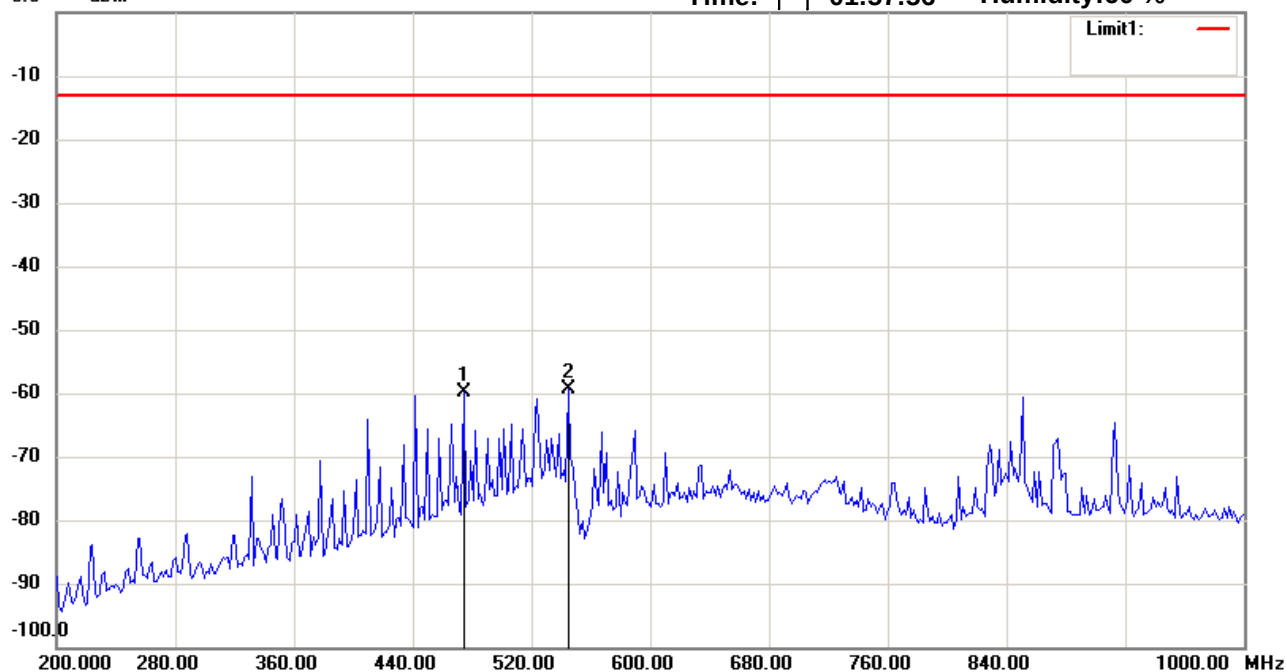
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 01:57:56

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	474.1483	-50.57	peak	-9.20	-59.77	-13.00	150	100	-46.77	
*	544.6894	-50.43	peak	-8.98	-59.41	-13.00	150	230	-46.41	

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



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Radiated Emission Measurement

Operator: Rick

File :2

Data :#2

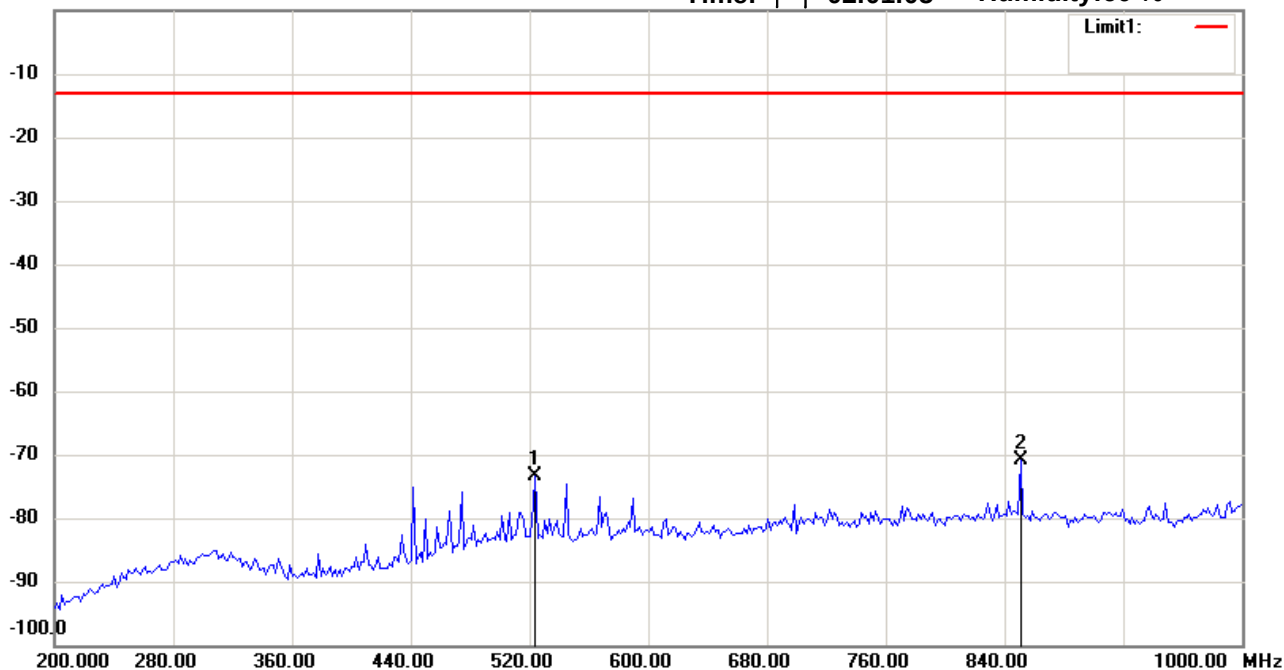
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 02:01:05

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: Vertical

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	523.8477	-66.89	peak	-6.57	-73.46	-13.00	150	250	-60.46	
*	850.9018	-68.06	peak	-2.88	-70.94	-13.00	150	100	-57.94	

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Rick

File :3

Data :#1

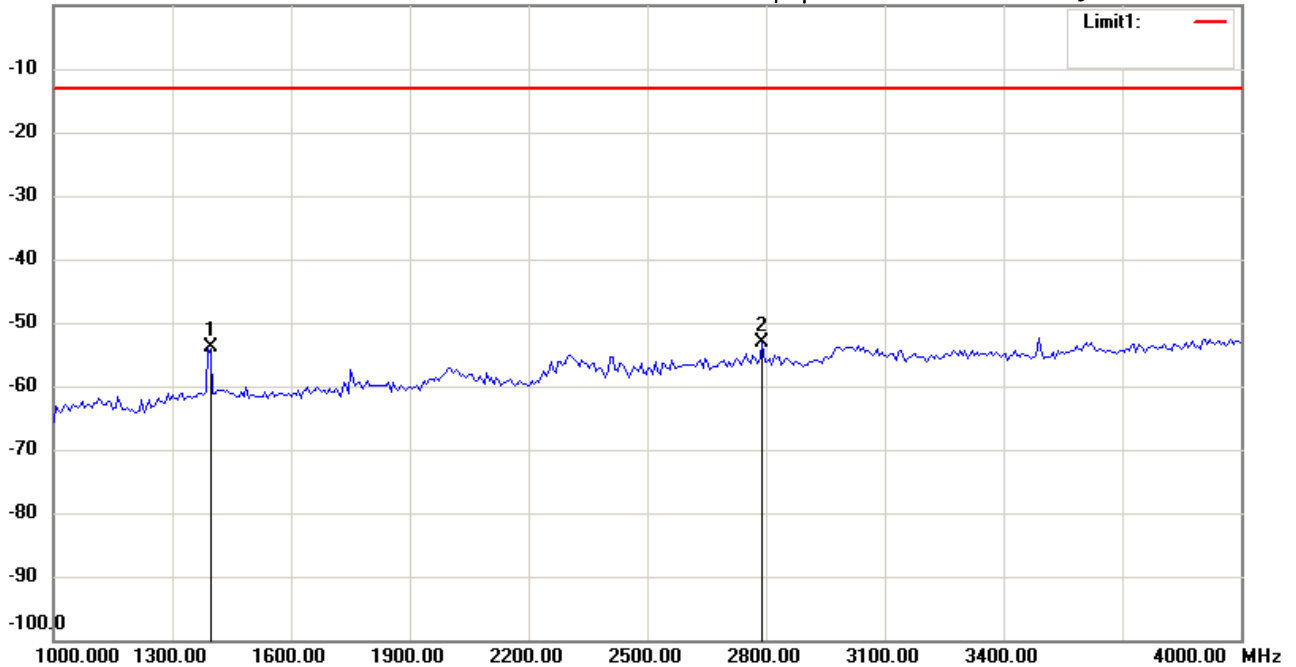
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:39:09

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: *Horizontal*

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1390.782	-54.99	peak	1.02	-53.97	-13.00	150	100	-40.97	
*	2791.583	-59.57	peak	6.37	-53.20	-13.00	150	270	-40.20	

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



Radiated Emission Measurement

Operator: Rick

File :3

Data :#3

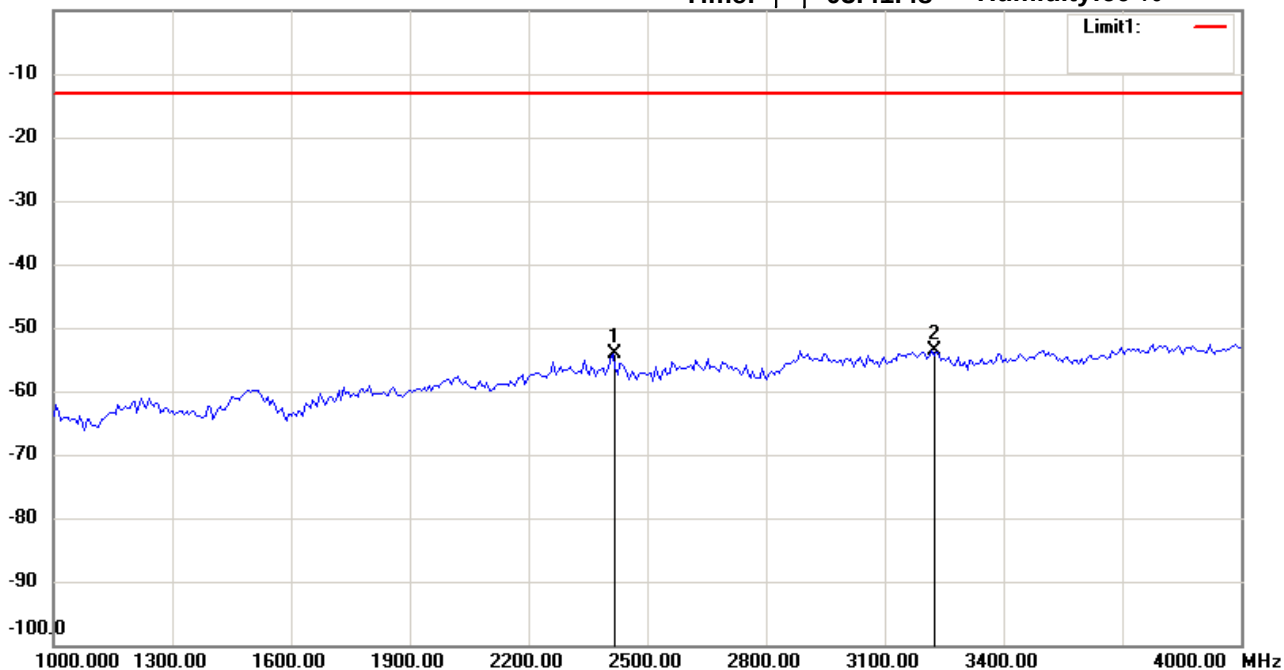
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:41:48

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

EUT : W6M21405-14186

M/N:

Test Mode : Tx 697.9MHz

Note :

Polarization: **Vertical**

Power : 3.7Vdc

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2412.826	-58.42	peak	4.39	-54.03	-13.00	150	200	-41.03	
*	3218.437	-61.54	peak	7.88	-53.66	-13.00	150	170	-40.66	



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#2

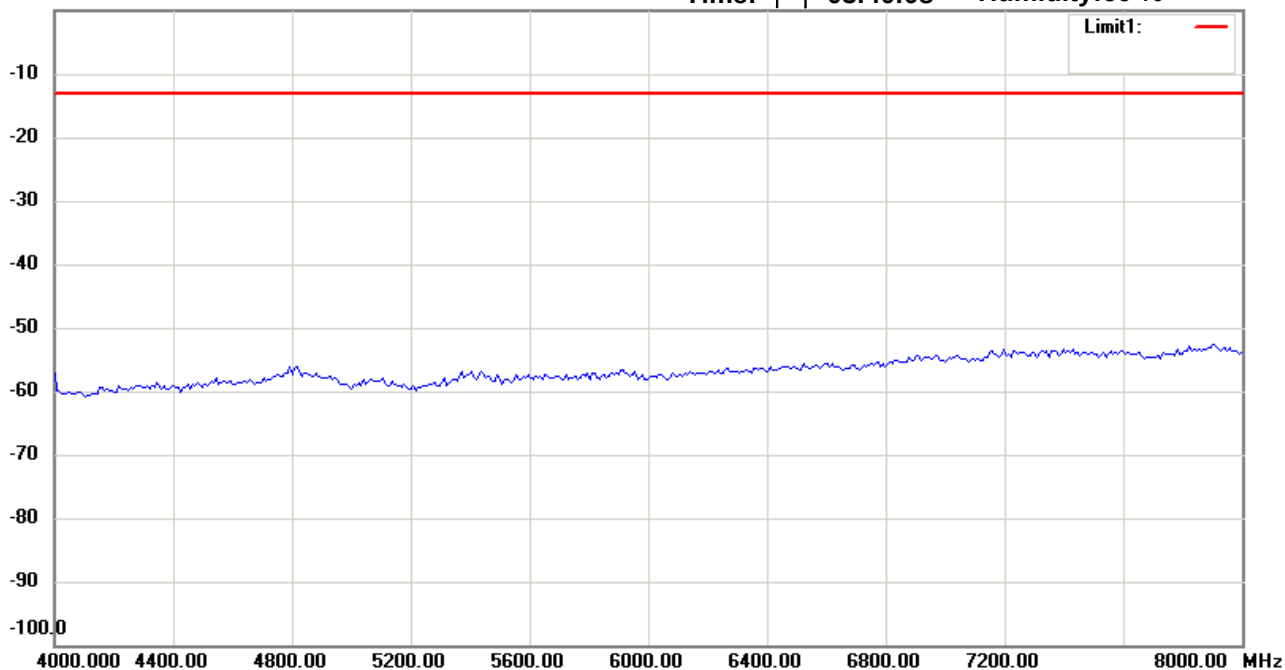
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:40:08

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: *Horizontal*

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

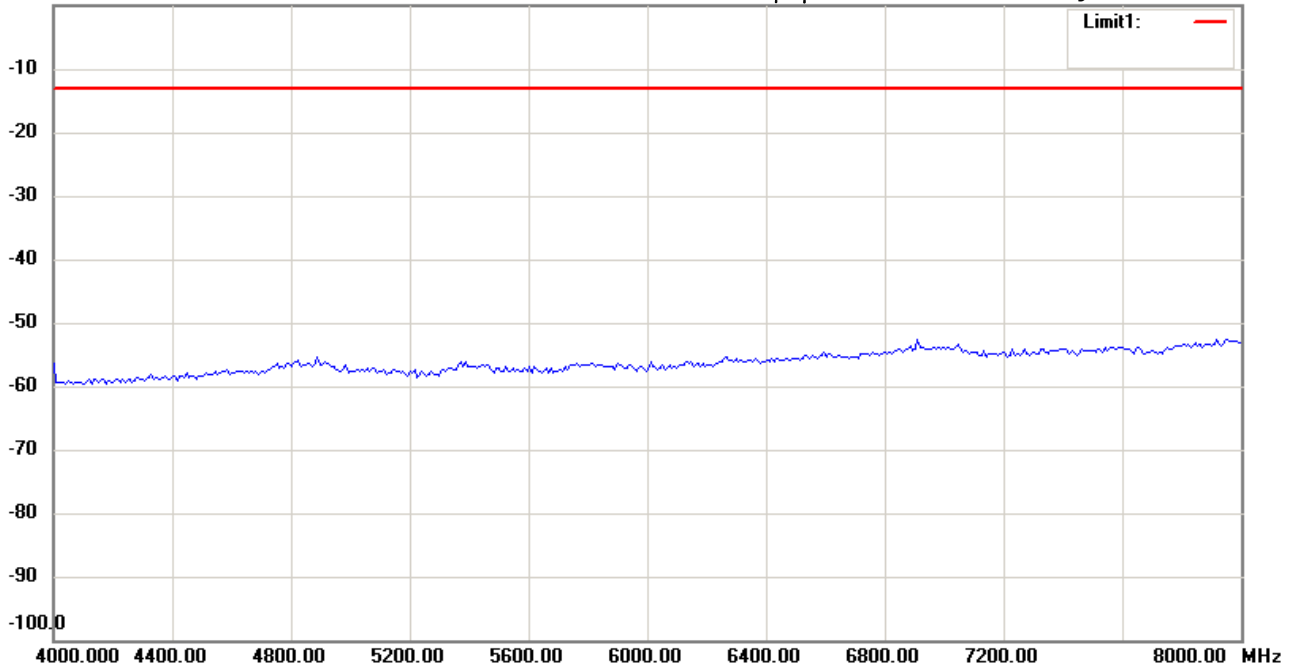
Date: 2015/3/16

Temperature:24 °C

0.0 dBm

Time: 下午 03:48:42

Humidity:60 %



Site : Chamber

Condition : FCC 74.861 spurious emission

Polarization: **Vertical**

EUT : W6M21405-14186

Power : 3.7Vdc

M/N:

Distance: 3m

Test Mode : Tx 697.9MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin