

FCC PART 15 SUBPART C TEST REPORT

for

Receiver

Model No.: RX48

FCC ID: NIYRX48-6M

of

Applicant: **Dexin Corp**

Address: **14F-8, No. 258, Lian Cheng Rd Chung Ho City Taipei Hsien
Taiwan**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

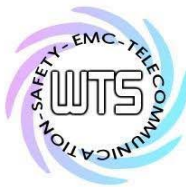
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21703-16772-C-9

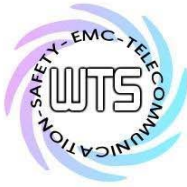
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



Registration number: W6M21703-16772-C-9
FCC ID: NIYRX48-6M

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.


Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

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

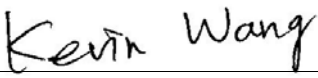
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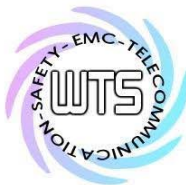
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Tester:

April 11, 2017	Spencer Yang	
Date	WTS-Lab. Name	Signature

Technical responsibility for area of testing:

April 11, 2017	Kevin Wang	
Date	WTS Name	Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,
Wanli Dist., New Taipei City 207,
Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

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

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

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2730.01

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: ./.

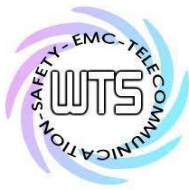
Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.



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1.3 Details of approval holder

Name: Dexin Corp
Street: 14F-8, No. 258, Lian Cheng Rd
Town: Chung Ho City Taipei Hsien
Country: Taiwan
Telephone: +886-2-8227-1093
Fax: +886-2-8227-1058

1.4 Application details

Date of receipt of test item: March 30, 2017
Date of test: From March 31, 2017 to April 11, 2017

1.5 General information of Test item

Type of test item: Receiver
Model Number: RX48
Multi-listing model number: ./.
Photos: see Annex

Technical data

Frequency band: 2.400-2.4835 GHz
Operation Frequency: 2.408-2.474 GHz
Frequency 1: 2.408 GHz
Frequency 2: 2.440 GHz
Frequency 3: 2.474 GHz

Operation modes: Half-Duplex
Modulation Type: GFSK
Antenna type: PCB Antenna
Power supply: USB 5Vd.c.(Power from PC)

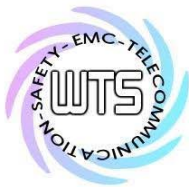
Manufacturer: (if different from applicant)

Name: Dongguan Dexin Electronics Co., Ltd.
Street: No.2, Jianye 2 Road, Shitanpu Village, Tangxia Town,
Town: Dongguan, Guangdong Province,
Country: P.R.China

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2015-10)



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2 Technical test

2.1 Summary of test results

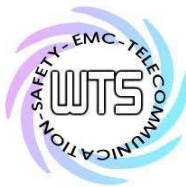
No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.

2.2 Test environment

Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Details Power supply:	USB 5Vd.c.(Power from PC)
Extreme conditions parameters:	./.



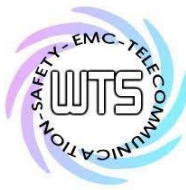
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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2016/5/20	2017/5/19
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLLEITUNG 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	2016/7/15	2017/7/14
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2016/9/12	2017/9/11
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2016/8/26	2017/8/25
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2016/5/20	2017/5/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2016/5/25	2017/5/24
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2016/7/4	2017/7/3
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	2016/6/24	2017/6/23
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2016/6/29	2017/6/28
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2017/3/22	2018/3/21
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2017/2/7	2018/2/6
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2017/3/20	2018/3/19
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2017/4/6	2018/4/5
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2017/3/1	2018/2/28
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2017/3/1	2018/2/28
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2017/4/6	2018/4/5
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	2016/9/8	2017/9/7
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2016/9/20	2017/9/19
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2017/3/1	2018/2/28
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	2017/1/12	2018/1/11
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2016/5/23	2017/5/22
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9

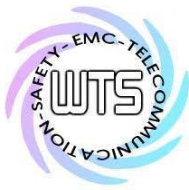


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ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2016/8/10	2017/8/9
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2017/3/1	2018/2/28
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2016/8/10	2017/8/9
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2017/4/6	2018/4/5
ETSTW-RE 143	Humidity Temperature Meter	TES-1260	110104623	TES	2016/8/19	2017/8/18
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2017/3/22	2018/3/21
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2016/5/4	2017/5/3
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2017/2/24	2018/2/23
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2017/2/10	2018/2/9
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2016/12/15	2017/12/14
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2017/1/12	2018/1/11
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2017/1/12	2018/1/11
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2017/1/12	2018/1/11
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2017/1/12	2018/1/11
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2016/9/14	2017/9/13
ETSTW-Cable 010	BNC Cable	RGS-142	None	THERMAX	2016/9/12	2017/9/11
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 012	BNC Cable	RGS-400	None	THERMAX	2016/9/12	2017/9/11
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2017/2/23	2018/2/22
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.	2017/4/6	2018/4/5
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2017/3/1	2018/2/28
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2016/5/13	2017/5/12
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2016/9/20	2017/9/19
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2017/3/1	2018/2/28
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2017/4/6	2018/4/5
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2017/4/6	2018/4/5
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2017/4/6	2018/4/5
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2017/2/20	2018/2/19
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2016/4/13	2017/4/12
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2016/9/12	2017/9/11

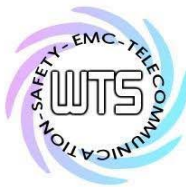


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ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2017/2/20	2018/2/19
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	



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2.4 General Test Procedure

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

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

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

Example:

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

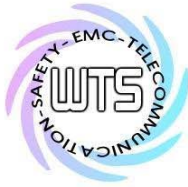
ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

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

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.

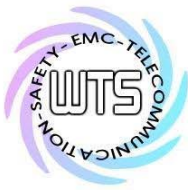


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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.249 (e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Receiver Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



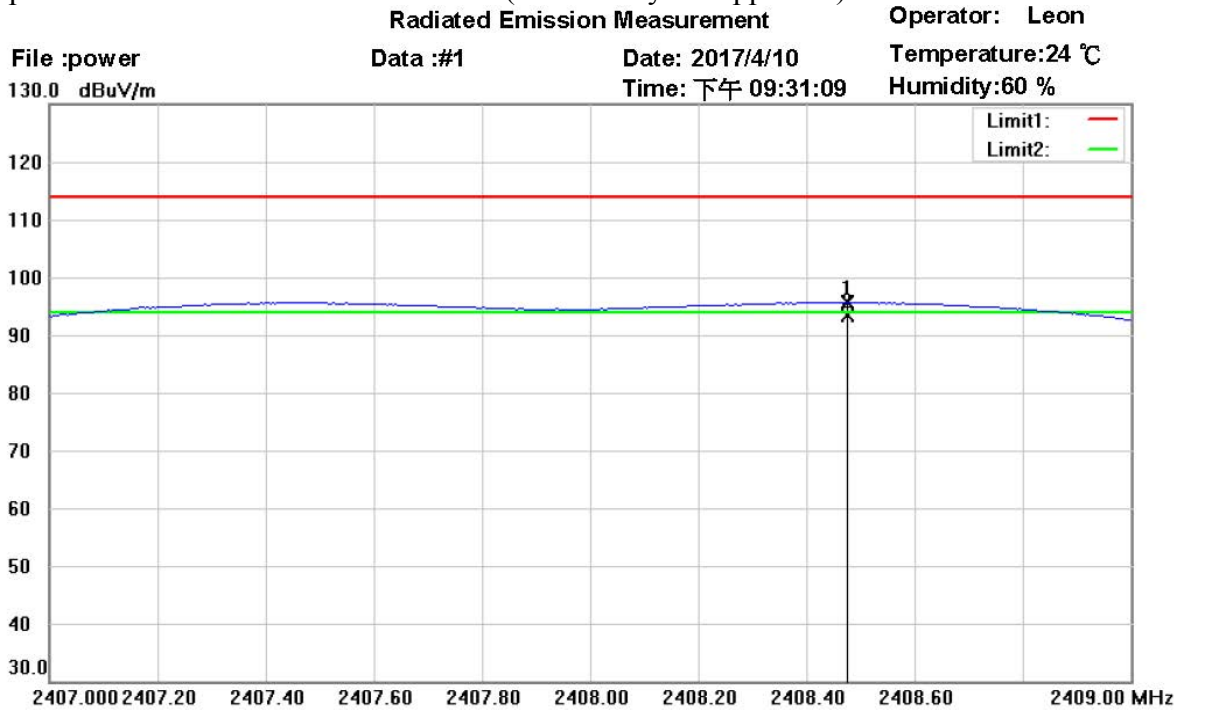
Registration number: W6M21703-16772-C-9
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

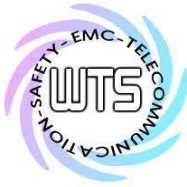
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

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



Site : Chamber
 Condition : FCC 15.249 power_PK Polarization: *Horizontal*
 EUT : W6M21703-16772 Power : 5 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 2408MHz
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2408.471	56.87	peak	38.75	95.62	114.00	150	228	-18.38	
*	2408.471	54.61	AVG	38.75	93.36	94.00	150	228	-0.64	



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Radiated Emission Measurement

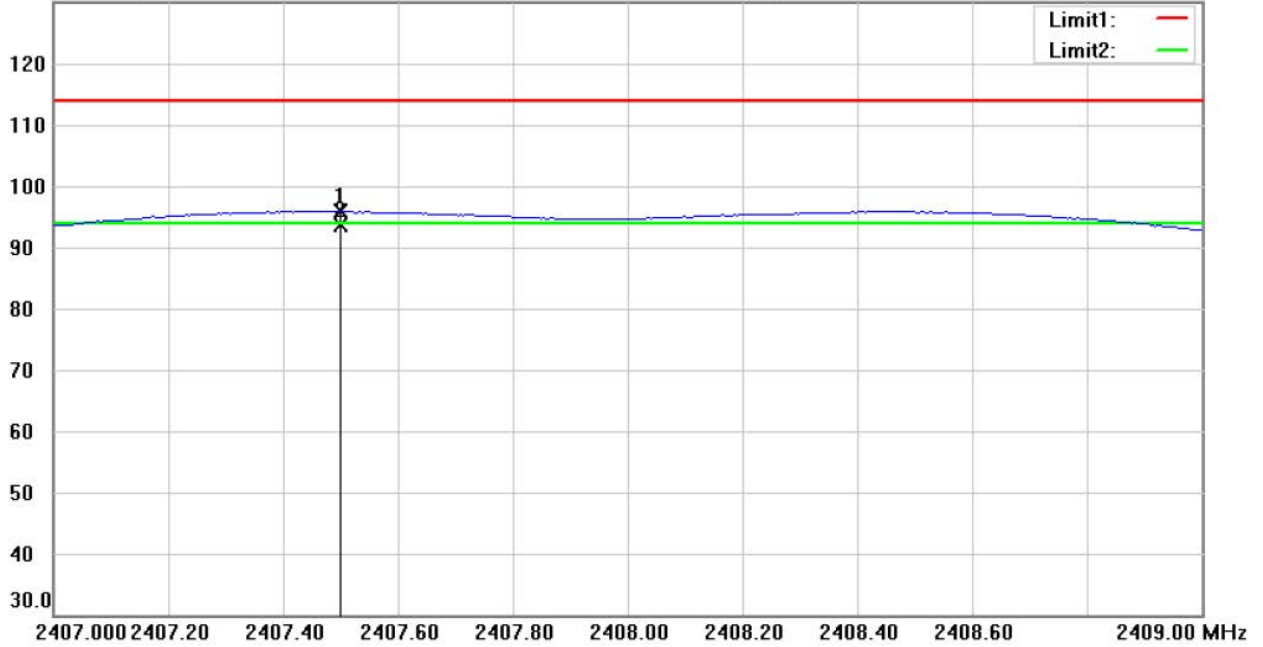
Operator: Leon

File :power
 130.0 dBuV/m

Data :#2

Date: 2017/4/10
 Time: 下午 09:45:22

Temperature:24 °C
 Humidity:60 %



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

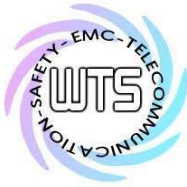
M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2407.501	57.10	peak	38.75	95.85	114.00	151	183	-18.15	
*	2407.501	54.82	AVG	38.75	93.57	94.00	151	183	-0.43	



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 FCC ID: NIYRX48-6M

Radiated Emission Measurement

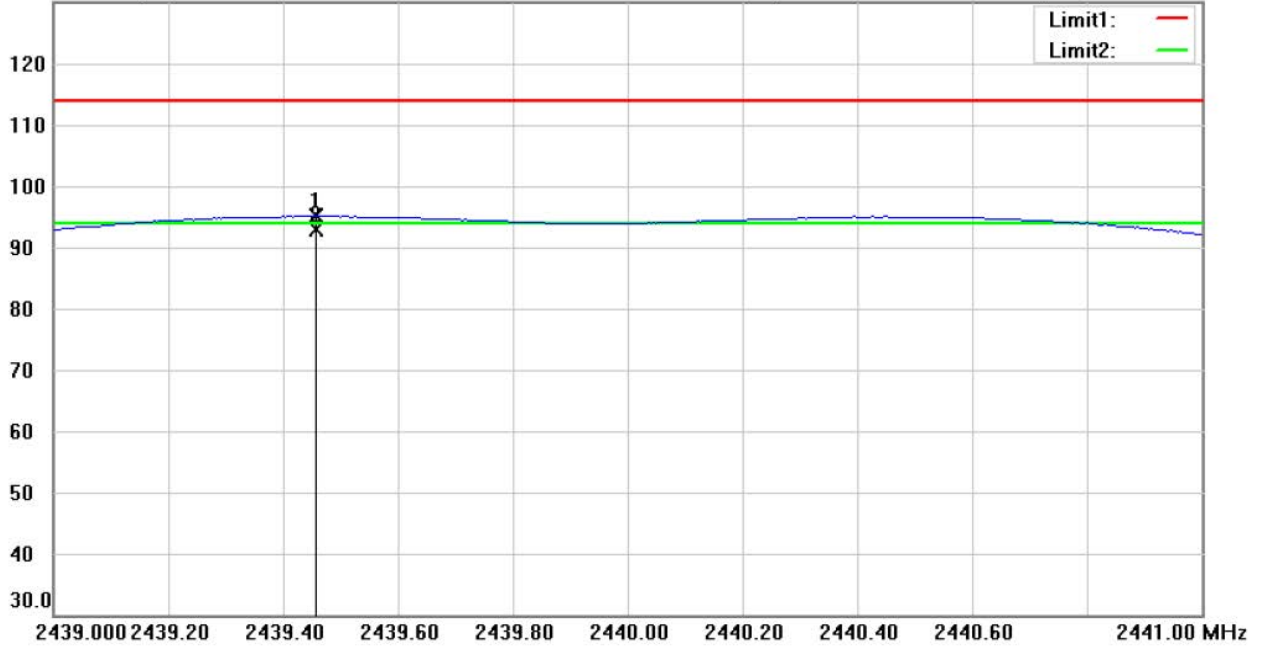
Operator: Leon

File :power
 130.0 dBuV/m

Data :#1

Date: 2017/4/10
 Time: 下午 10:28:03

Temperature:24 °C
 Humidity:60 %



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

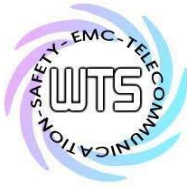
M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2439.453	56.18	peak	38.88	95.06	114.00	150	229	-18.94	
*	2439.453	53.89	AVG	38.88	92.77	94.00	150	229	-1.23	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M

Radiated Emission Measurement

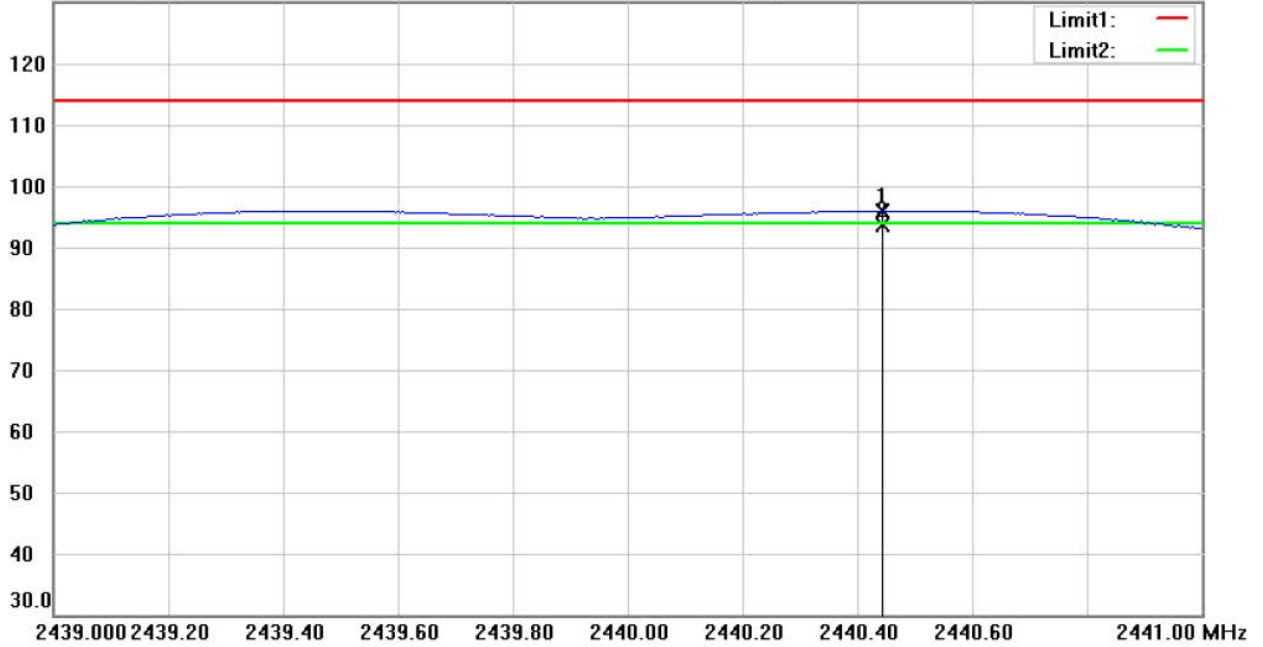
Operator: Leon

File :power
 130.0 dBuV/m

Data :#2

Date: 2017/4/10
 Time: 下午 10:33:11

Temperature:24 °C
 Humidity:60 %



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

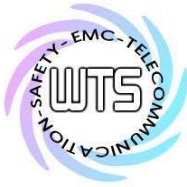
M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2440.439	57.10	peak	38.88	95.98	114.00	150	182	-18.02	
*	2440.439	54.72	AVG	38.88	93.60	94.00	150	182	-0.40	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M

Radiated Emission Measurement

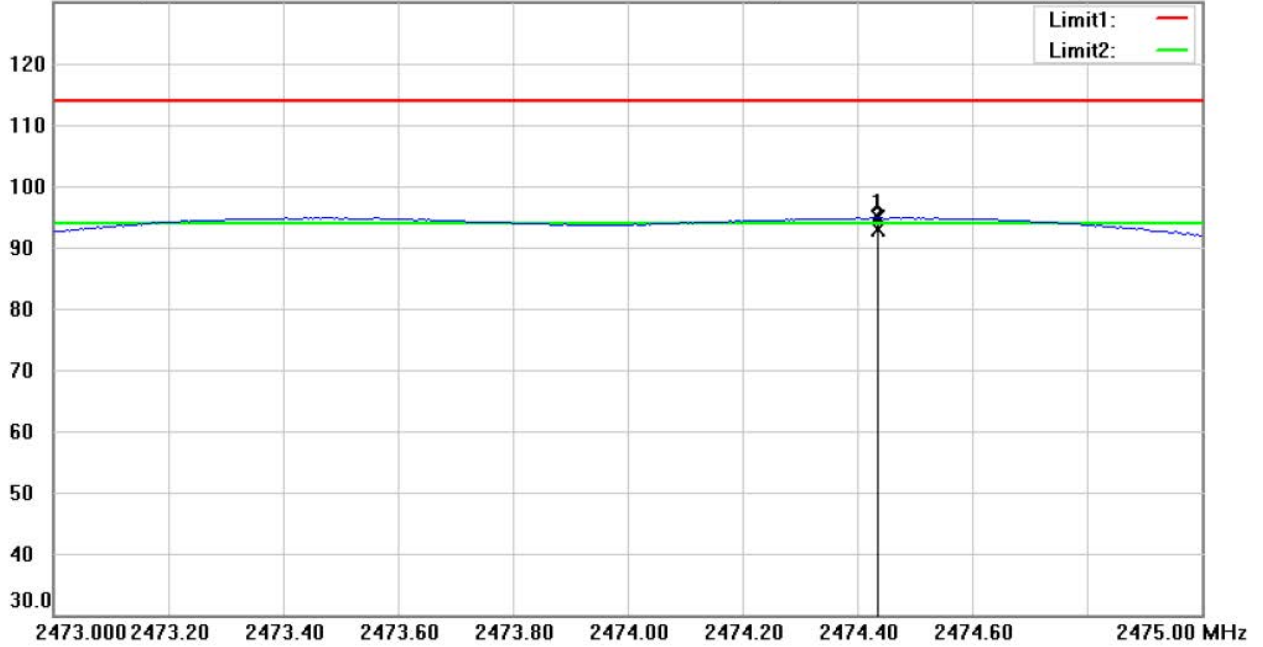
Operator: Leon

File :power
 130.0 dBuV/m

Data :#1

Date: 2017/4/10
 Time: 下午 10:39:44

Temperature:24 °C
 Humidity:60 %



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

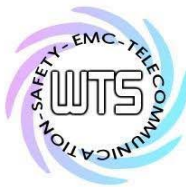
M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2474.431	55.84	peak	39.02	94.86	114.00	150	52	-19.14	
*	2474.431	53.98	AVG	39.02	93.00	94.00	150	52	-1.00	



Registration number: W6M21703-16772-C-9

FCC ID: NIYRX48-6M

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.5
Above 960	500	54.0

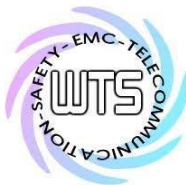
For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9

FCC ID: NIYRX48-6M

3.5 Spurious emission (tx)

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

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

The peak and average spurious emission plots was measured with the average limits. The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model: RX48 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.30 dB, 1-18 GHz = ± 2.28dB, 18-40 GHz = ± 2.19 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
 6. Up Line: PK Limit Line, Down Line: Ave Limit Line.
 7. See attached diagrams in appendix.

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 030, ETSTW-RE 088, ETSTW-RE 018



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9

FCC ID: NIYRX48-6M

3.6 Radiated Emissions from Receiver Part

FCC Rule: 15.109

Model: RX48 Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: -- Humidity: -- %

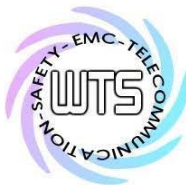
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty for 3m measurement : 30-1000 MHz = ± 3.30 dB, 1-18 GHz = ±2.28 dB, 18-40 GHz = ±2.19 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 044

Explanation: The test results are listed in the separated test report no.: W6M21703-16772-P-15B.

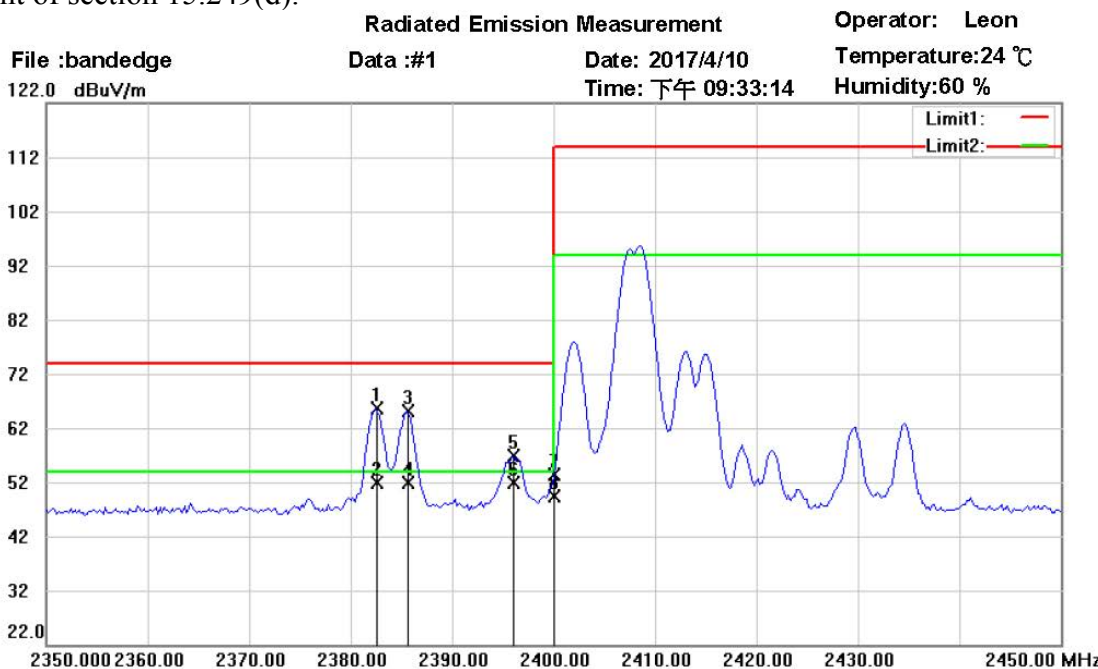


Registration number: W6M21703-16772-C-9

FCC ID: NIYRX48-6M

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

EUT : W6M21703-16772

M/N:

Test Mode : TX 2408MHz

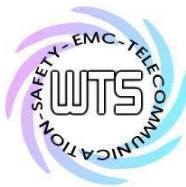
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

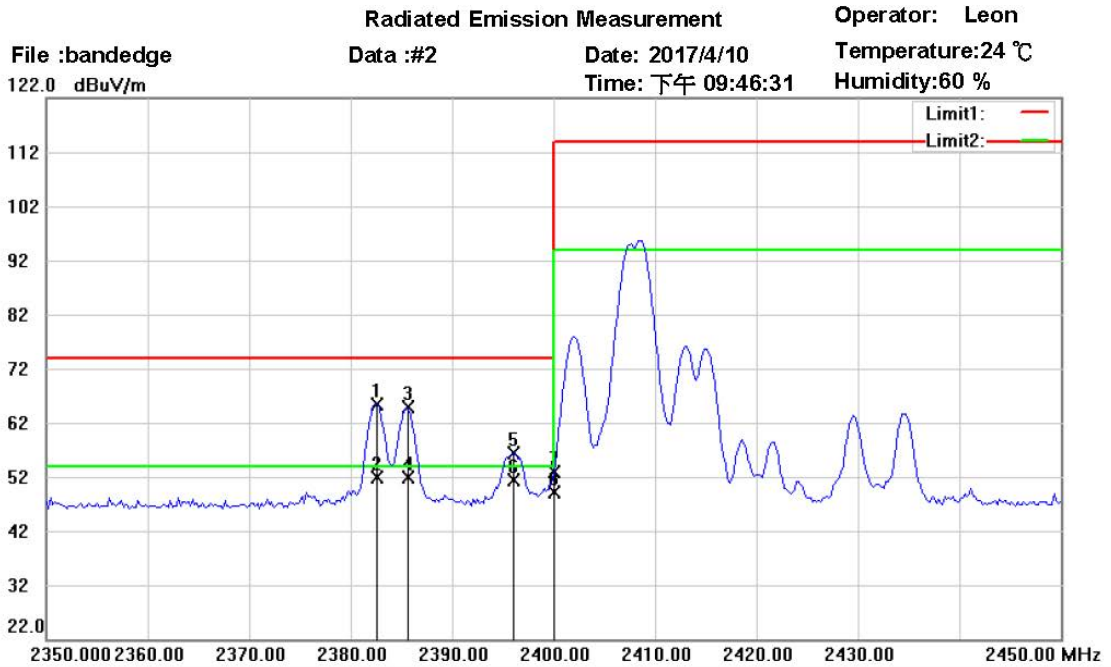
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2382.665	26.83	peak	38.71	65.54	74.00	150	228	-8.46	
	2382.665	13.10	AVG	38.71	51.81	54.00	150	228	-2.19	
	2385.471	26.32	peak	38.71	65.03	74.00	150	228	-8.97	
	2385.471	13.06	AVG	38.71	51.77	54.00	150	228	-2.23	
	2396.092	18.11	peak	38.72	56.83	74.00	150	228	-17.17	
*	2396.092	13.11	AVG	38.72	51.83	54.00	150	228	-2.17	
	2400.000	14.71	peak	38.72	53.43	74.00	150	228	-20.57	
	2400.000	10.54	AVG	38.72	49.26	54.00	150	228	-4.74	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

EUT : W6M21703-16772

M/N:

Test Mode : TX 2408MHz

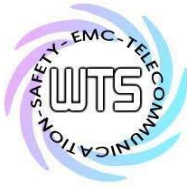
Note :

Polarization: *Vertical*

Power : 5 Vd.c.

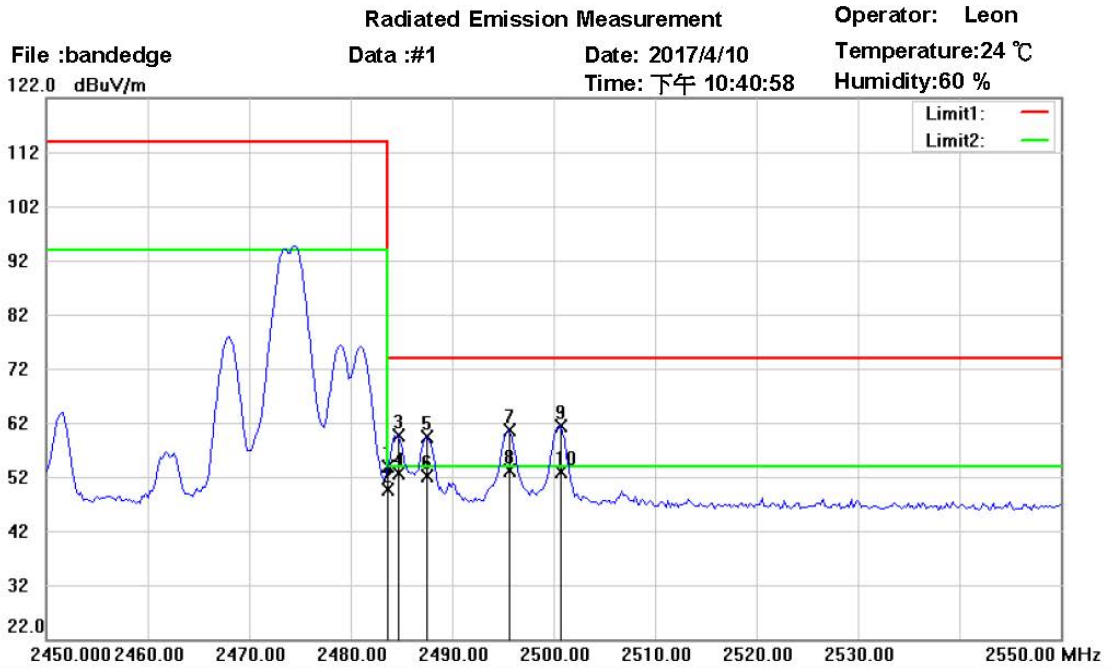
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2382.665	26.74	peak	38.71	65.45	74.00	151	183	-8.55	
*	2382.665	13.27	AVG	38.71	51.98	54.00	151	183	-2.02	
	2385.471	26.25	peak	38.71	64.96	74.00	151	183	-9.04	
	2385.471	13.16	AVG	38.71	51.87	54.00	151	183	-2.13	
	2396.092	17.73	peak	38.72	56.45	74.00	151	183	-17.55	
	2396.092	12.76	AVG	38.72	51.48	54.00	151	183	-2.52	
	2400.000	14.13	peak	38.72	52.85	74.00	151	183	-21.15	
	2400.000	10.50	AVG	38.72	49.22	54.00	151	183	-4.78	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

EUT : W6M21703-16772

M/N:

Test Mode : TX 2474MHz

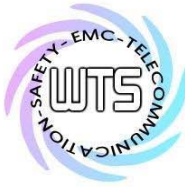
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

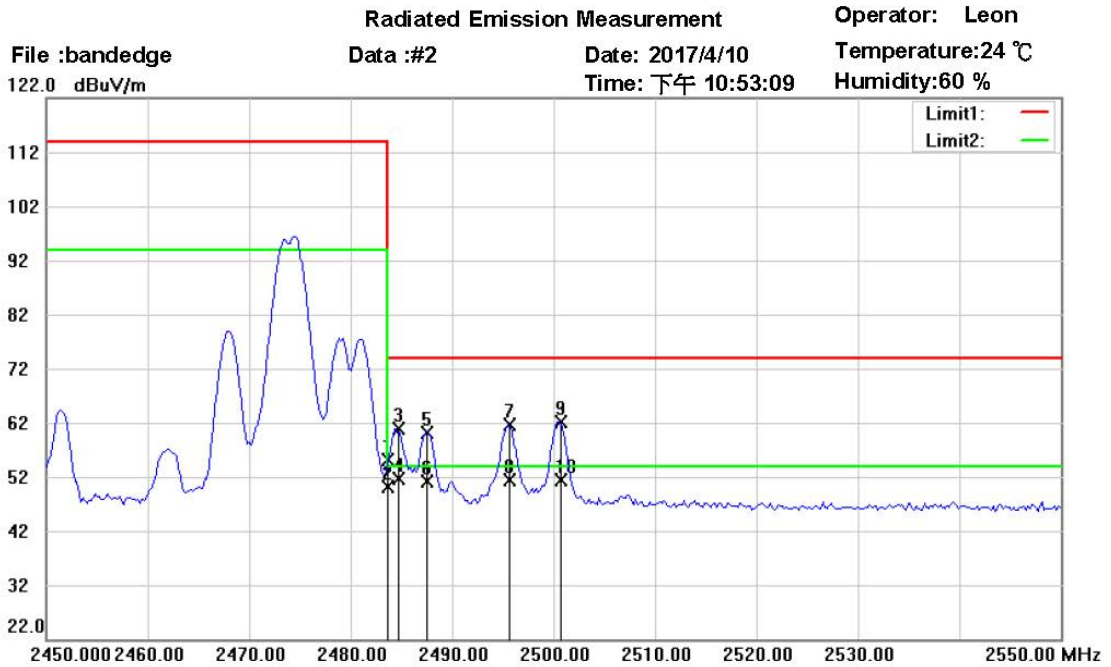
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	14.79	peak	39.05	53.84	74.00	150	52	-20.16	
	2483.500	10.49	AVG	39.05	49.54	54.00	150	52	-4.46	
	2484.566	20.62	peak	39.06	59.68	74.00	150	52	-14.32	
	2484.566	13.57	AVG	39.06	52.63	54.00	150	52	-1.37	
	2487.365	20.41	peak	39.07	59.48	74.00	150	52	-14.52	
	2487.365	13.09	AVG	39.07	52.16	54.00	150	52	-1.84	
	2495.494	21.46	peak	39.10	60.56	74.00	150	52	-13.44	
*	2495.494	13.97	AVG	39.10	53.07	54.00	150	52	-0.93	
	2500.701	22.28	peak	39.12	61.40	74.00	150	52	-12.60	
	2500.701	13.75	AVG	39.12	52.87	54.00	150	52	-1.13	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
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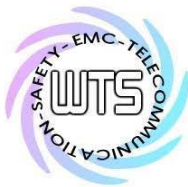
Site : Chamber
 Condition : FCC 15.249 PK (Bandedge) Polarization: **Vertical**
 EUT : W6M21703-16772 Power : 5 Vd.c.
 M/N:
 Test Mode : TX 2474MHz Distance: 3m
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	16.07	peak	39.05	55.12	74.00	180	195	-18.88	
	2483.500	11.10	AVG	39.05	50.15	54.00	180	195	-3.85	
	2484.562	21.73	peak	39.06	60.79	74.00	180	195	-13.21	
*	2484.562	12.57	AVG	39.06	51.63	54.00	180	195	-2.37	
	2487.377	20.97	peak	39.07	60.04	74.00	180	195	-13.96	
	2487.377	12.16	AVG	39.07	51.23	54.00	180	195	-2.77	
	2495.502	22.59	peak	39.10	61.69	74.00	180	195	-12.31	
	2495.502	12.30	AVG	39.10	51.40	54.00	180	195	-2.60	
	2500.547	23.08	peak	39.12	62.20	74.00	180	195	-11.80	
	2500.547	12.15	AVG	39.12	51.27	54.00	180	195	-2.73	

Limit:

Frequency Range (MHz)	Limit (dBμV/m)	
	Peak	Average
902 – 928	114	94
2400 – 2483.5	74	54
5725 – 5875	74	54

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147



Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M

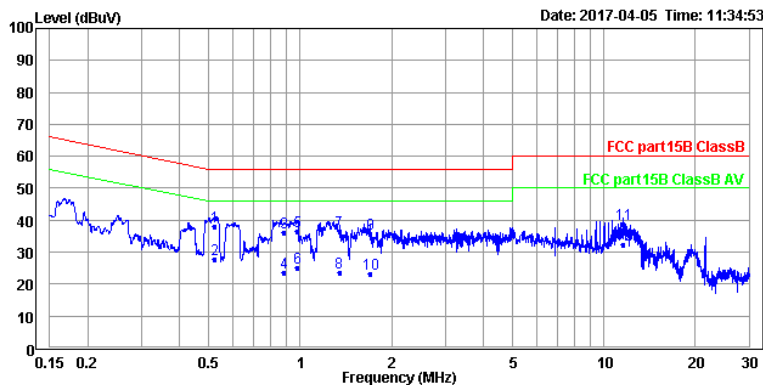
3.8 Power Line Conducted Emission

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

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

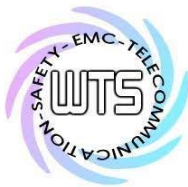


Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
 Tel: +886-2-6606-8877
 Fax: +886-2-6606-8875



Condition: FCC part15B ClassB ENV216 neutral
 EUT : W6M21703-16772
 Mode :
 Power : 5 Vd.c.
 Operator : Sora
 Note :

	Freq	Level	Read	Limit	Over			
	MHz	dBuV	Level	Line	Limit	Pol/Phase	Remark	
			dBuV	dB	dBuV	dB		
1	0.523	38.03	28.24	9.79	56.00	-17.97	neutral	QP
2	0.523	27.92	18.13	9.79	46.00	-18.08	neutral	Average
3	0.881	36.21	26.40	9.81	56.00	-19.79	neutral	QP
4	0.881	23.70	13.89	9.81	46.00	-22.30	neutral	Average
5	0.979	36.58	26.77	9.81	56.00	-19.42	neutral	QP
6	0.979	25.18	15.37	9.81	46.00	-20.82	neutral	Average
7	1.344	36.40	26.55	9.85	56.00	-19.60	neutral	QP
8	1.344	23.67	13.82	9.85	46.00	-22.33	neutral	Average
9	1.701	35.84	25.96	9.88	56.00	-20.16	neutral	QP
10	1.701	23.07	13.19	9.88	46.00	-22.93	neutral	Average
11	11.592	38.61	28.50	10.11	60.00	-21.39	neutral	QP
12 *	11.592	32.32	22.21	10.11	50.00	-17.68	neutral	Average

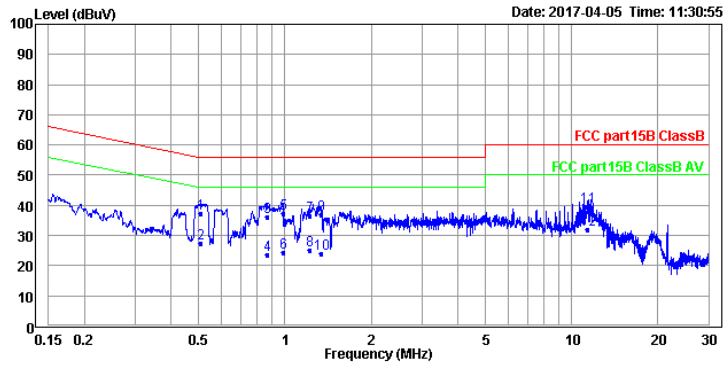


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21703-16772-C-9
 FCC ID: NIYRX48-6M



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



Condition: FCC part15B ClassB ENV216 line
 EUT : W6M21703-16772
 Mode :
 Power : 5 Vd.c.
 Operator : Sora
 Note :

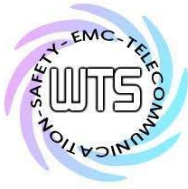
	Freq	Level	Read	Factor	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB		
1	0.507	37.31	27.53	9.78	56.00	-18.69	line	QP
2	0.507	27.54	17.76	9.78	46.00	-18.46	line	Average
3	0.869	36.20	26.43	9.77	56.00	-19.80	line	QP
4	0.869	23.63	13.86	9.77	46.00	-22.37	line	Average
5	0.985	37.34	27.57	9.77	56.00	-18.66	line	QP
6	0.985	24.49	14.72	9.77	46.00	-21.51	line	Average
7	1.220	36.66	26.88	9.78	56.00	-19.34	line	QP
8	1.220	25.15	15.37	9.78	46.00	-20.85	line	Average
9	1.343	36.98	27.19	9.79	56.00	-19.02	line	QP
10	1.343	24.09	14.30	9.79	46.00	-21.91	line	Average
11	11.390	39.42	29.40	10.02	60.00	-20.58	line	QP
12 *	11.390	32.00	21.98	10.02	50.00	-18.00	line	Average

- Note:**
1. The formula of measured value as: $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
 2. The Correction Factor = Cable Loss + LISN Insertion Loss
 3. Detector function in the form : PK = Peak, QP = Qusai Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Measurement uncertainty = $\pm 0.74\text{dB}$; 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.

Limits:

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-CE 028



Registration number: W6M21703-16772-C-9
FCC ID: NIYRX48-6M

Appendix

Measurement diagrams

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

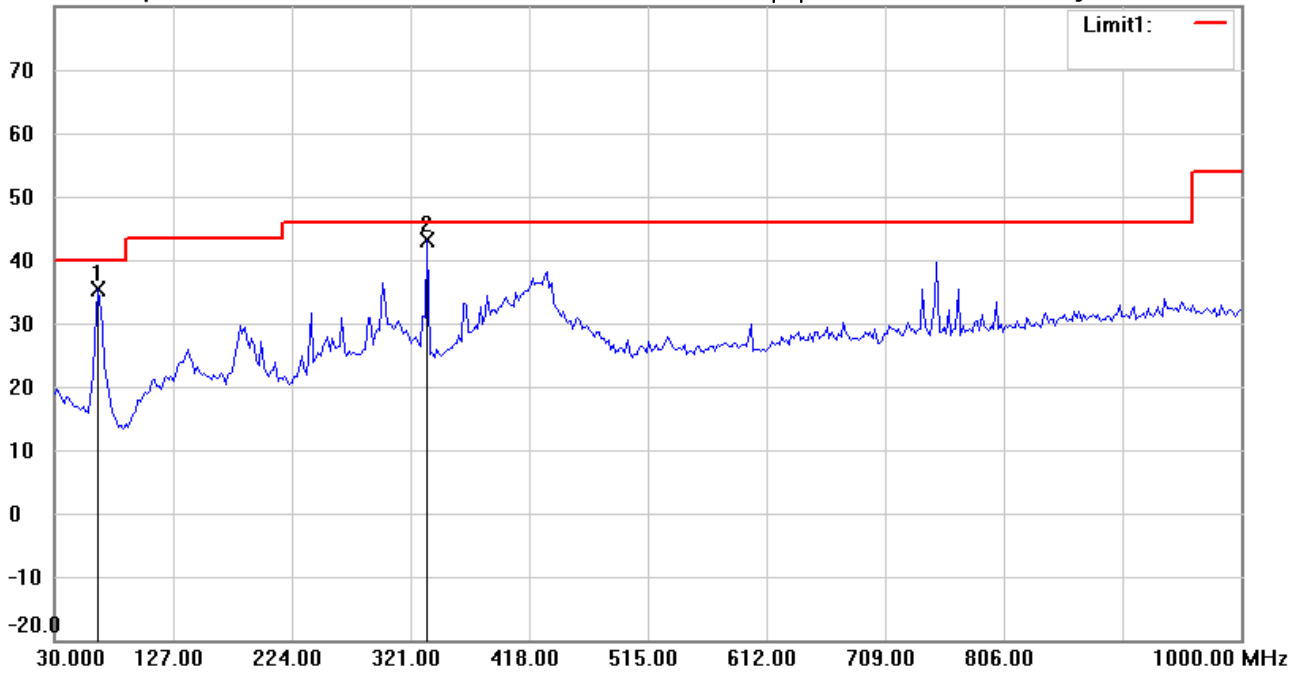
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:00:28

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	64.9900	48.04	peak	-12.67	35.37	40.00	100	165	-4.63	
*	335.1904	48.19	peak	-5.00	43.19	46.00	100	215	-2.81	



Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

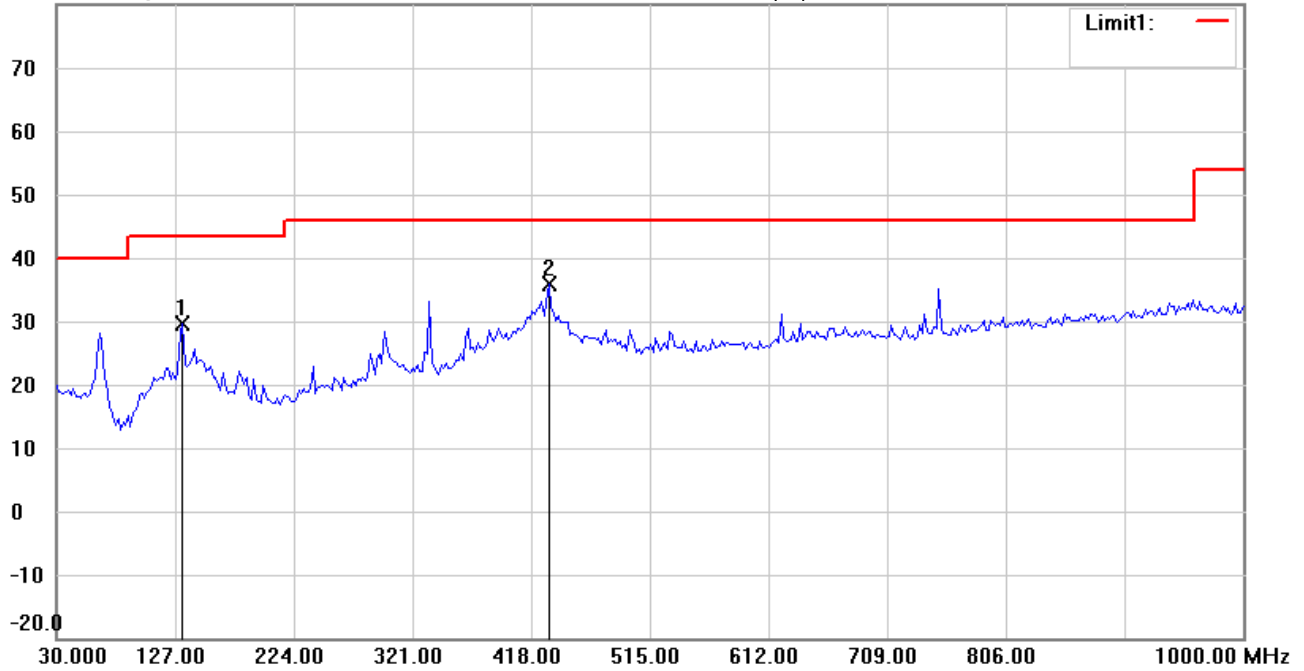
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:01:22

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	133.0261	36.00	peak	-6.44	29.56	43.50	100	245	-13.94	
*	432.3848	38.94	peak	-3.15	35.79	46.00	100	190	-10.21	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

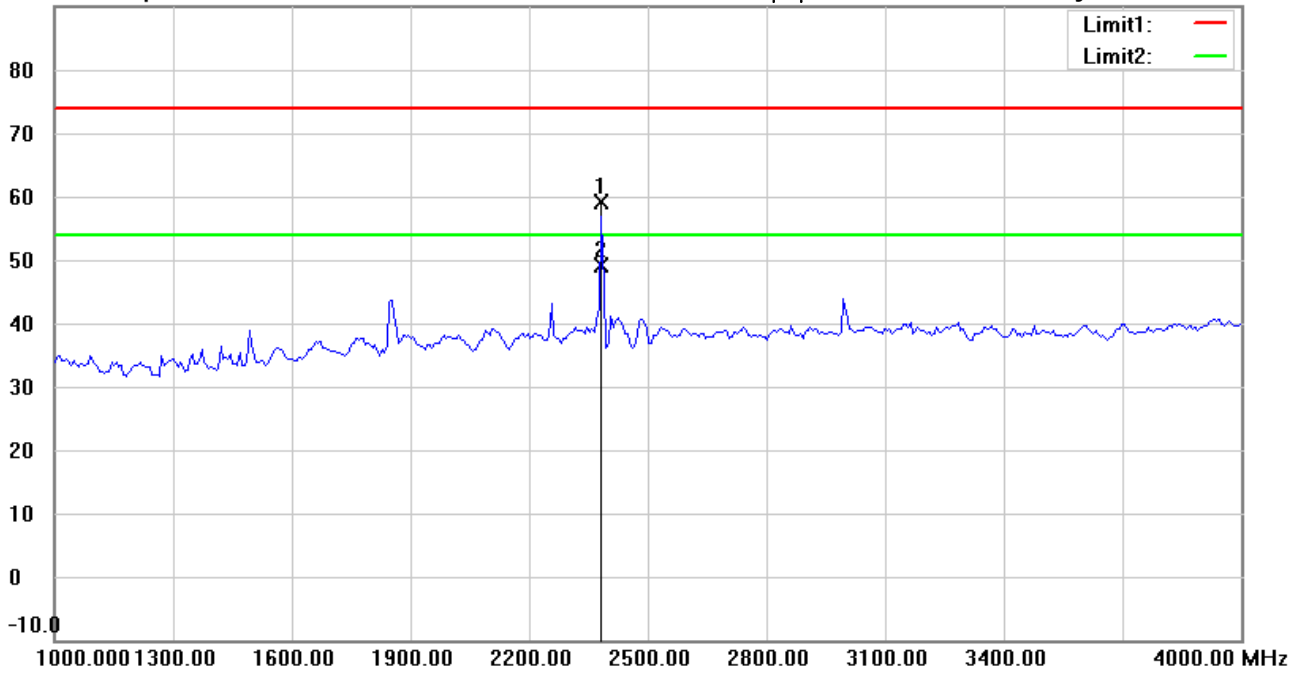
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:55:56

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2382.585	63.81	peak	-4.62	59.19	74.00	155	78	-14.81	
*	2382.585	53.81	AVG	-4.62	49.19	54.00	155	78	-4.81	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#6

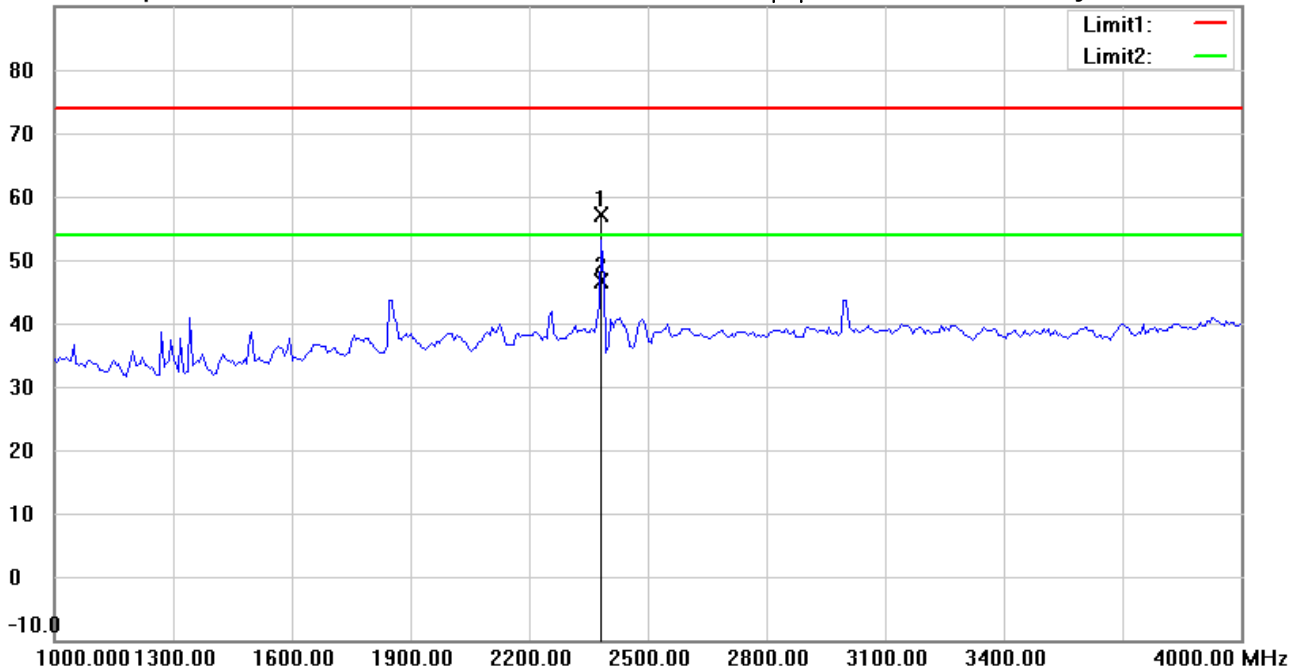
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:59:04

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2382.765	61.63	peak	-4.62	57.01	74.00	150	275	-16.99	
*	2382.765	51.37	AVG	-4.62	46.75	54.00	150	275	-7.25	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

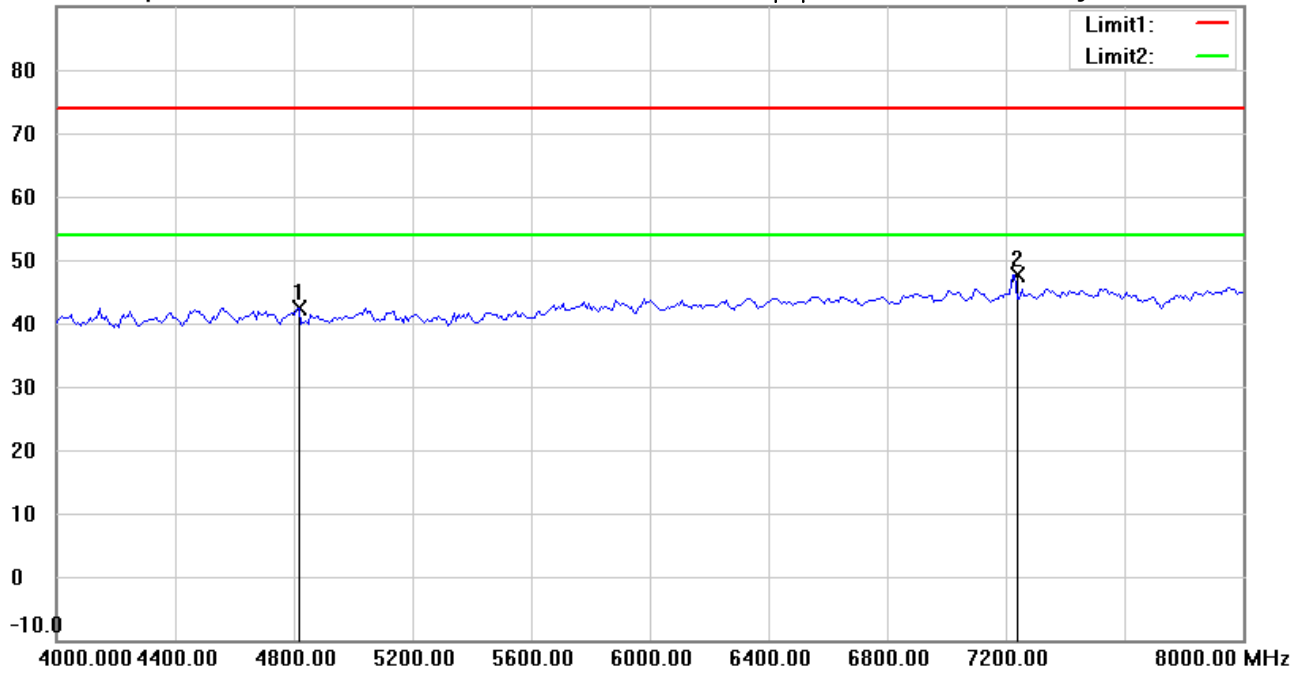
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:56:50

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4817.635	42.82	peak	-0.33	42.49	74.00	150	175	-31.51	
*	7230.461	43.16	peak	4.49	47.65	74.00	150	90	-26.35	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

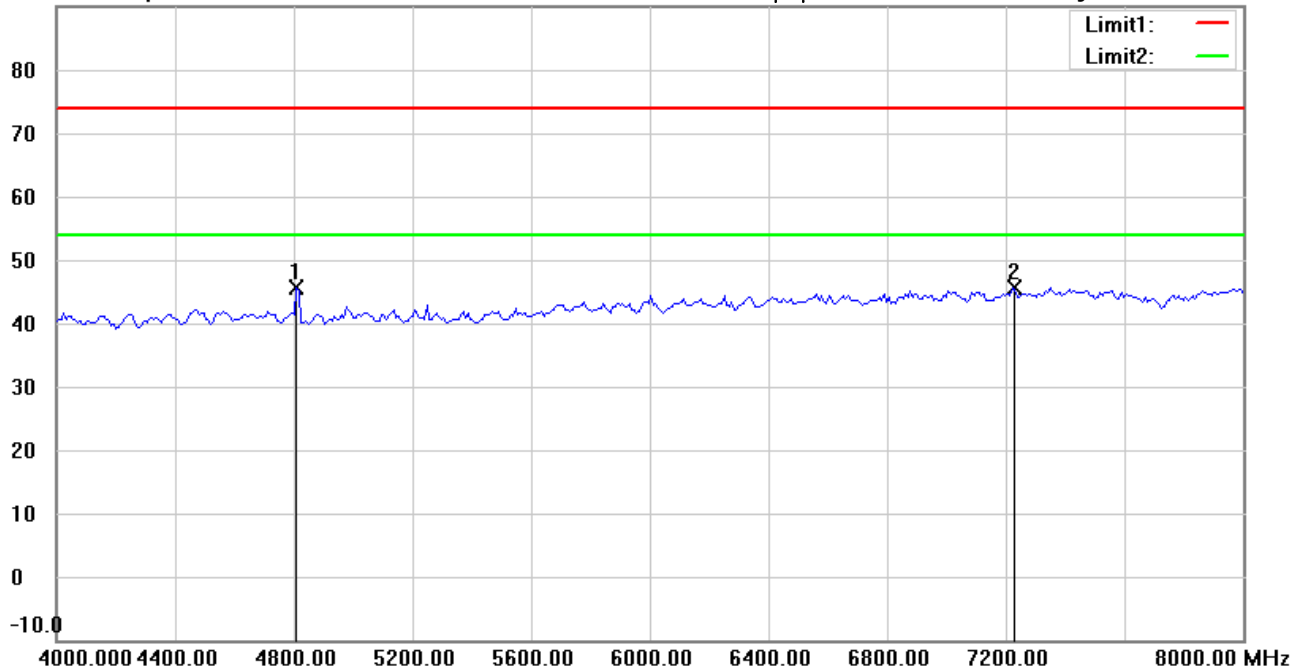
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:59:59

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4809.619	45.86	peak	-0.33	45.53	74.00	150	245	-28.47	
	7222.445	41.04	peak	4.49	45.53	74.00	150	190	-28.47	



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 Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

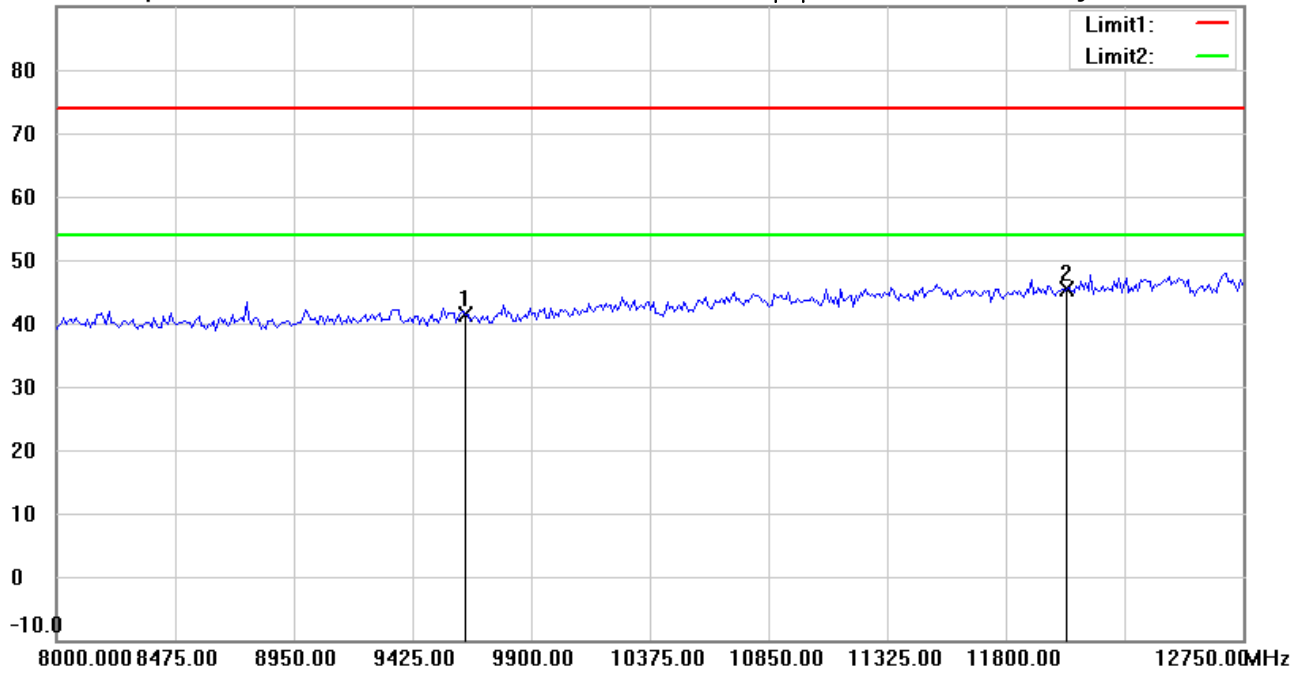
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:57:03

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9632.000	33.69	peak	7.74	41.43	74.00	150	15	-32.57	
*	12040.000	32.50	peak	12.91	45.41	74.00	150	235	-28.59	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

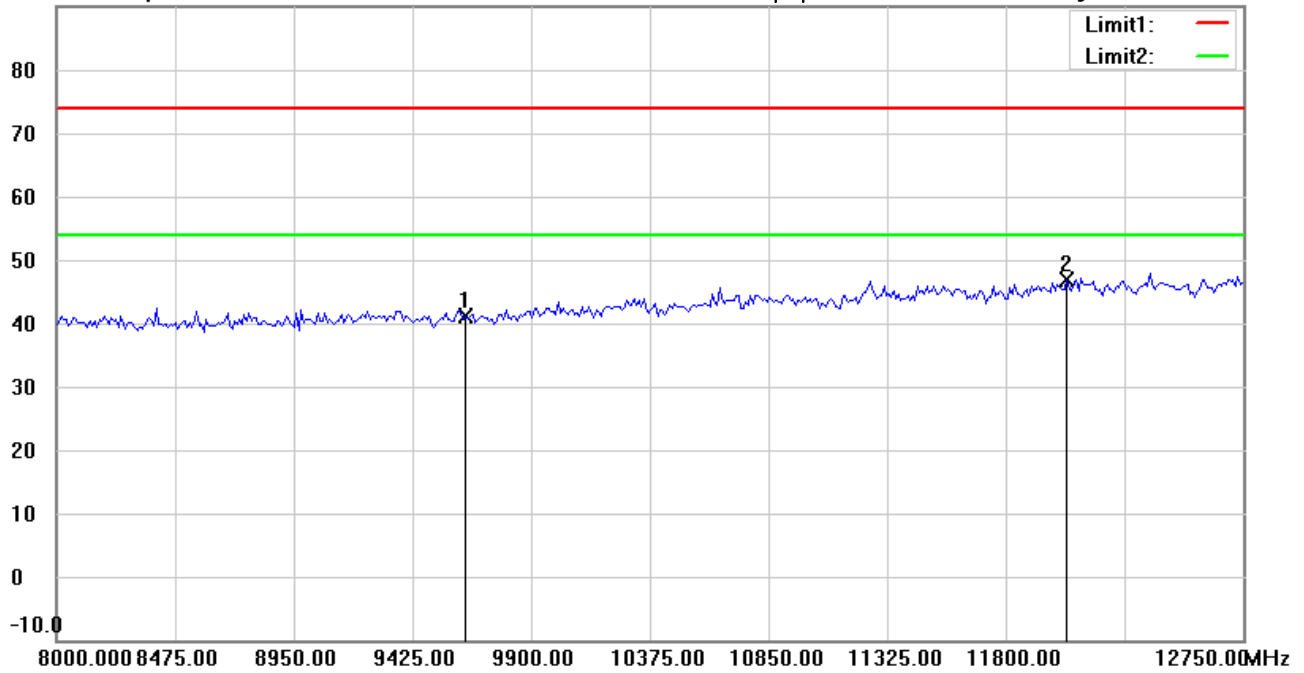
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:00:11

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9632.000	33.49	peak	7.74	41.23	74.00	150	170	-32.77	
*	12040.000	34.09	peak	12.91	47.00	74.00	150	155	-27.00	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

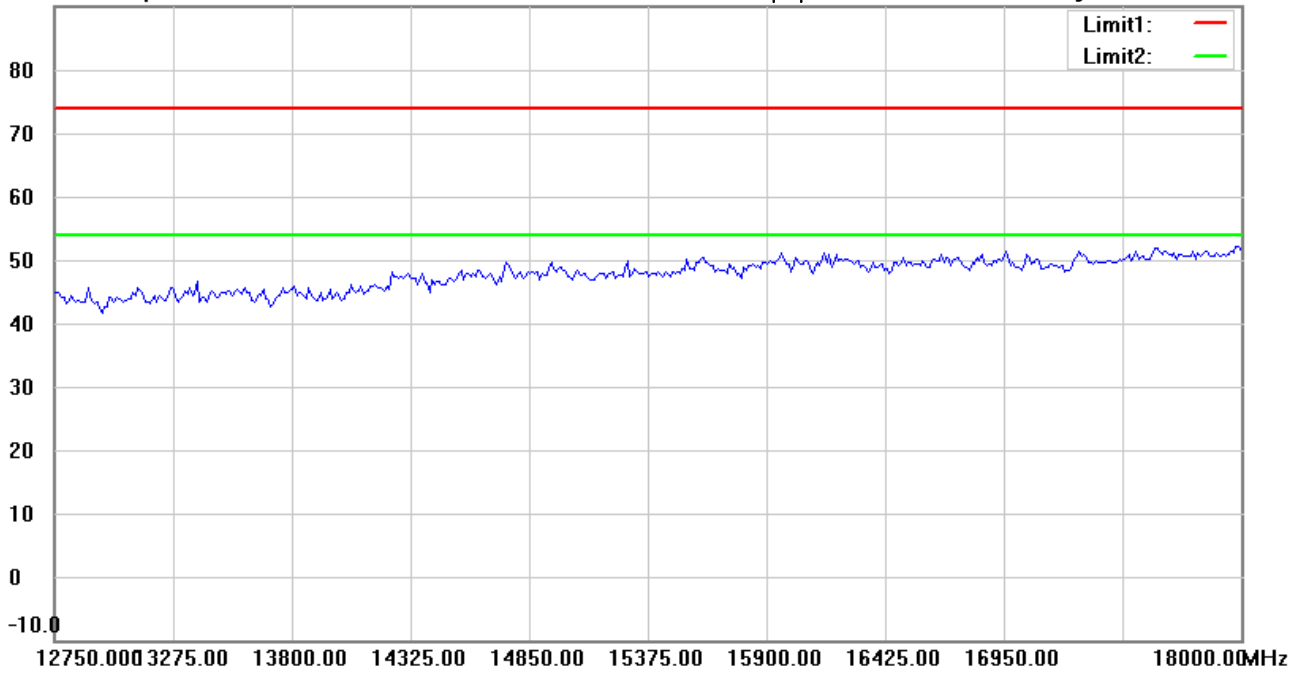
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:58:00

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

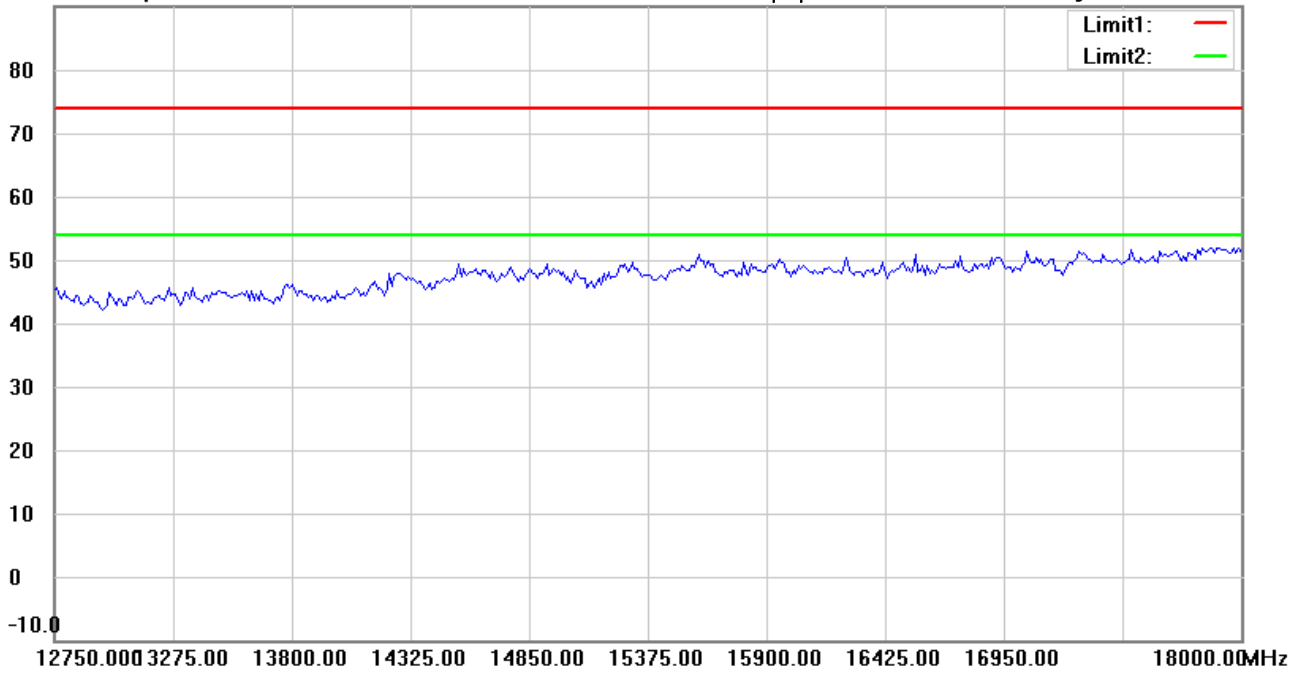
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:01:13

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

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

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#5

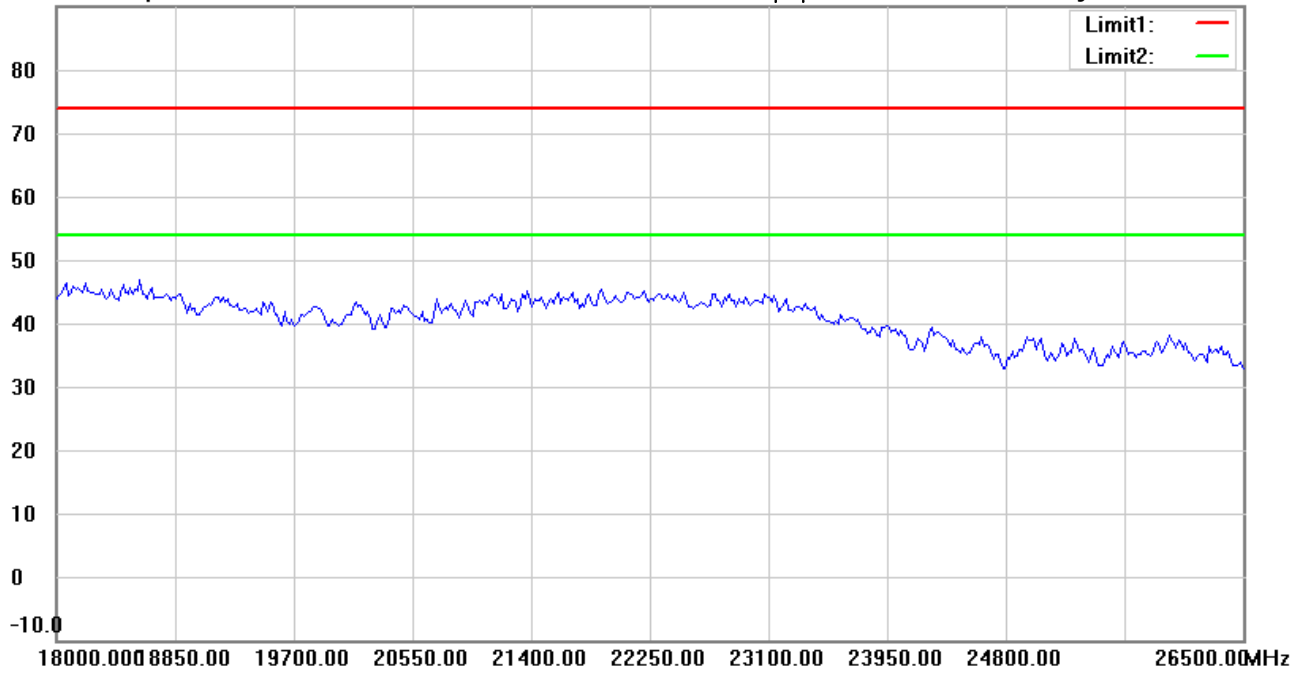
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 09:58:10

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

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

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

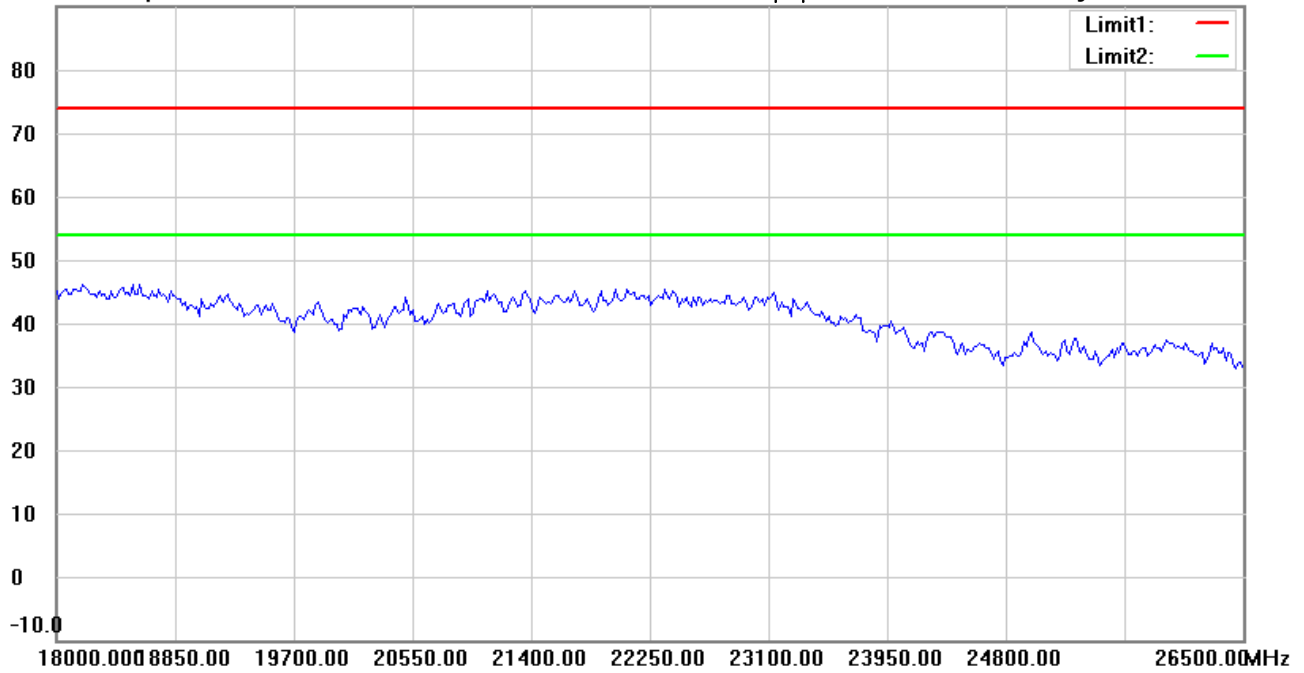
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:01:23

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2408MHz

Note :

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

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



Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

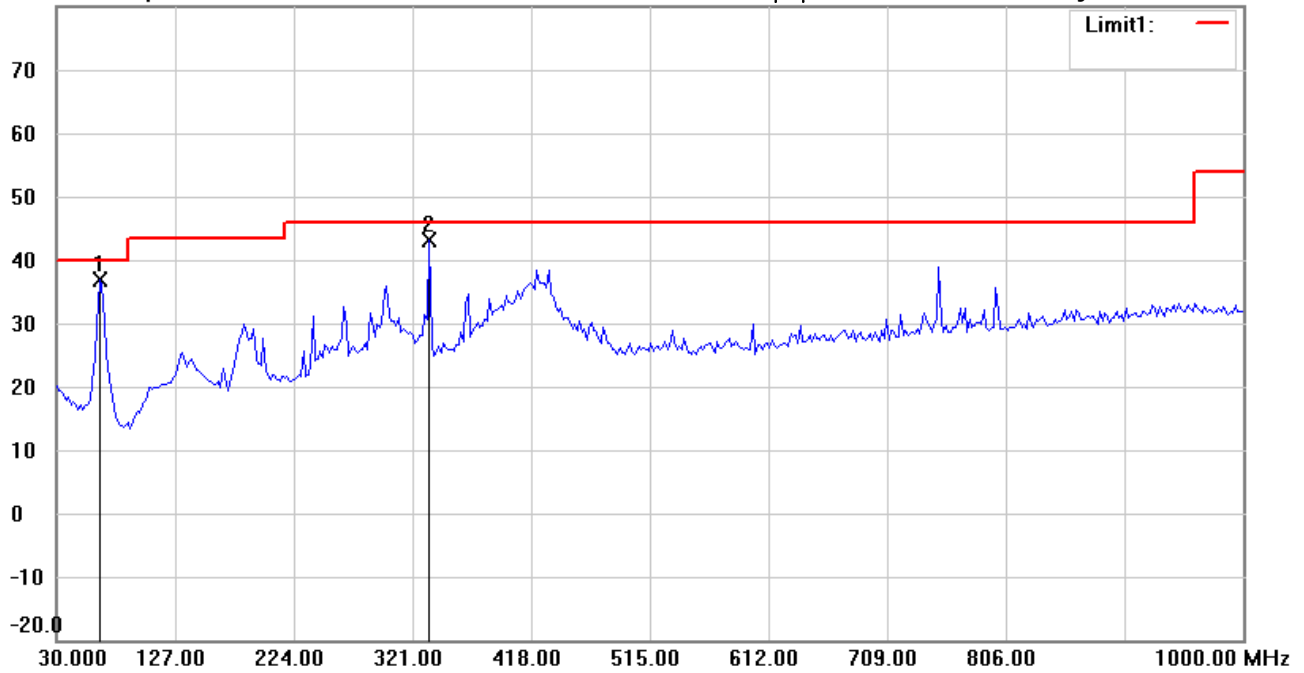
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:02:52

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	64.9900	49.49	peak	-12.67	36.82	40.00	100	235	-3.18	
*	335.1904	48.24	peak	-5.00	43.24	46.00	100	190	-2.76	



Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

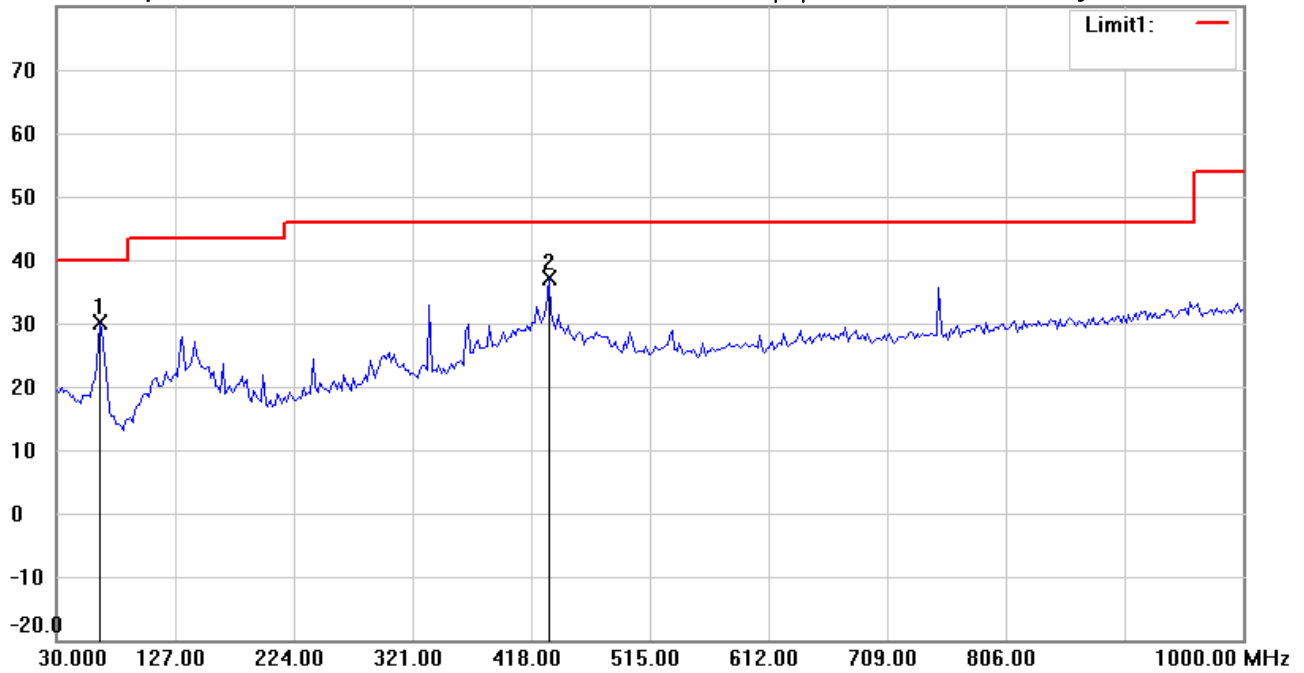
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:03:46

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M21703-16772

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	64.9900	42.83	peak	-12.67	30.16	40.00	100	155	-9.84	
*	432.3848	40.37	peak	-3.15	37.22	46.00	100	170	-8.78	



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

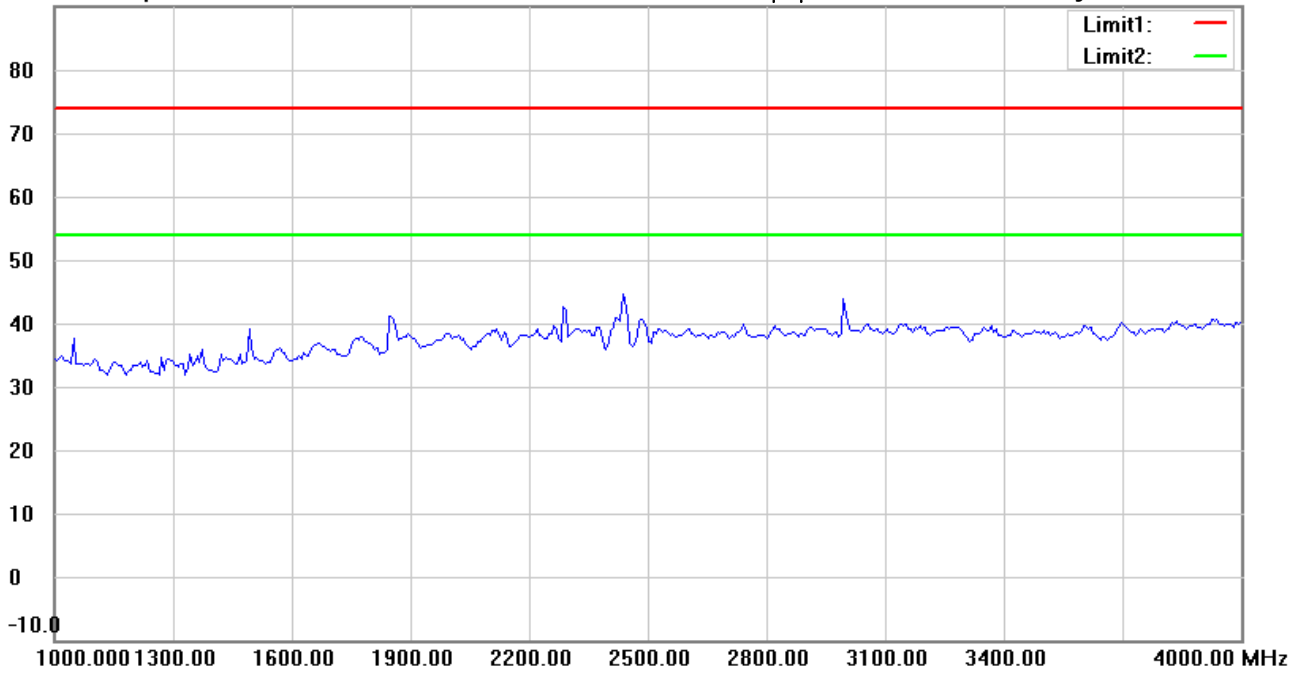
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:12:36

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#6

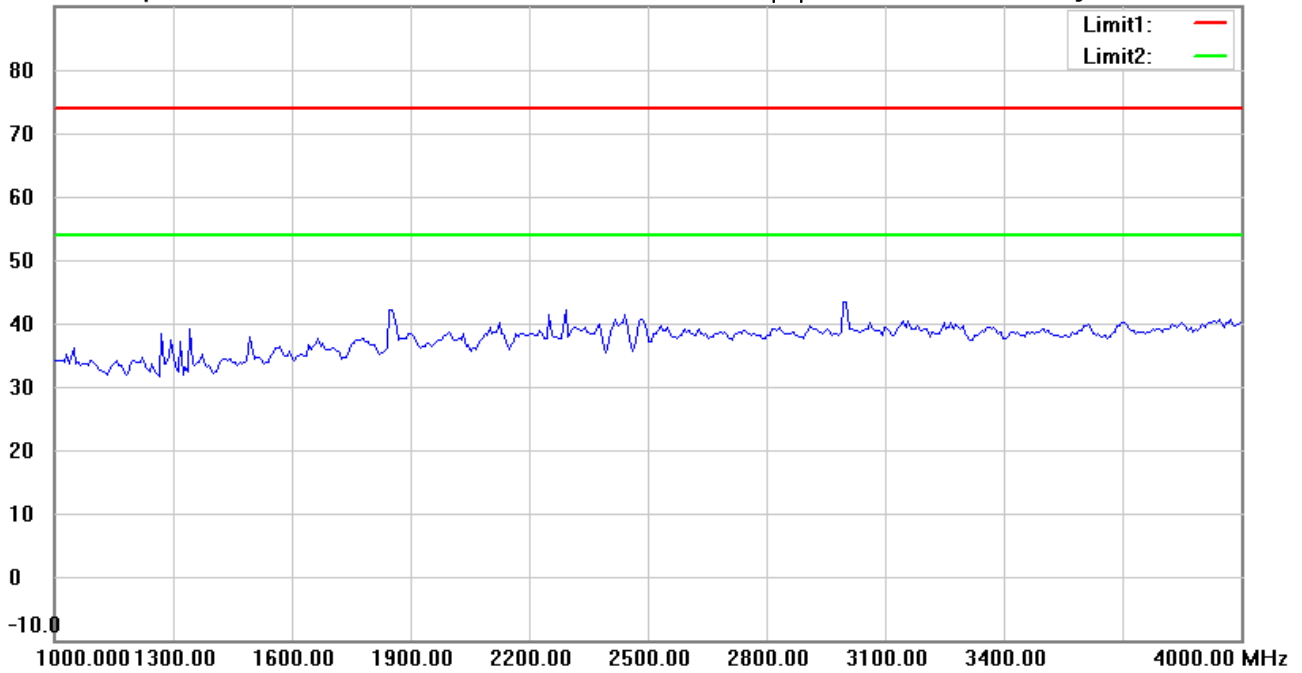
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:15:44

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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

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



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

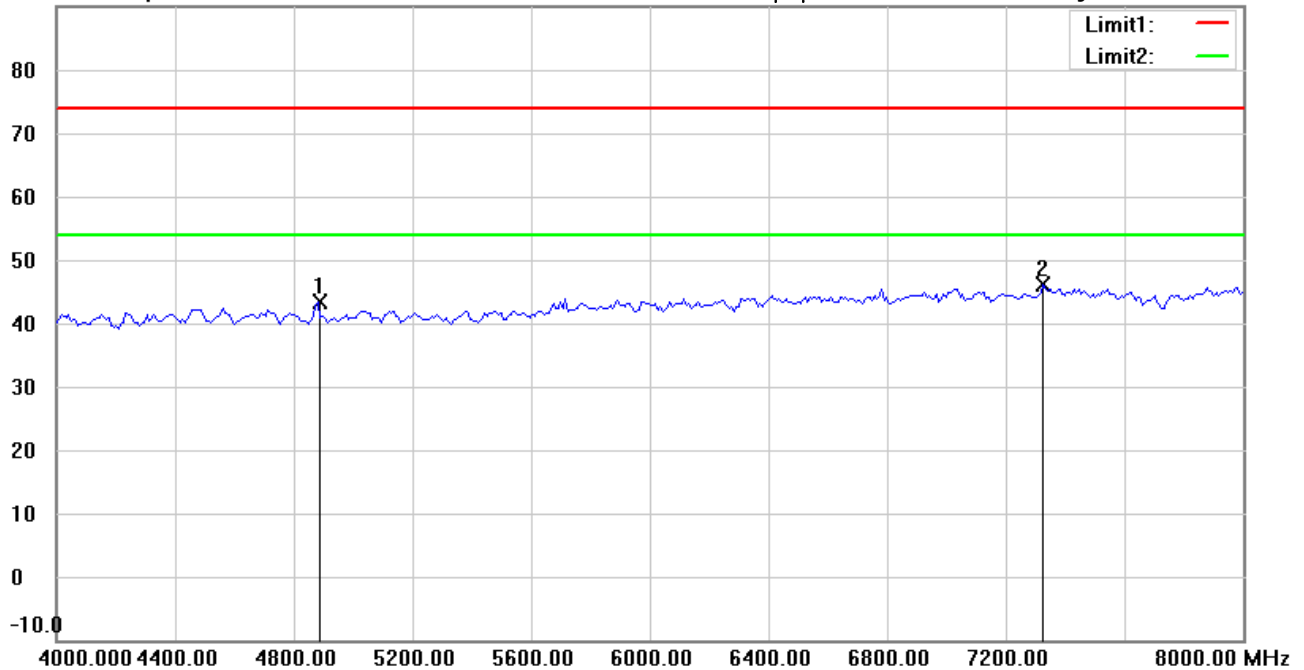
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:13:30

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4881.764	43.76	peak	-0.29	43.47	74.00	150	195	-30.53	
*	7326.653	41.33	peak	4.71	46.04	74.00	150	60	-27.96	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

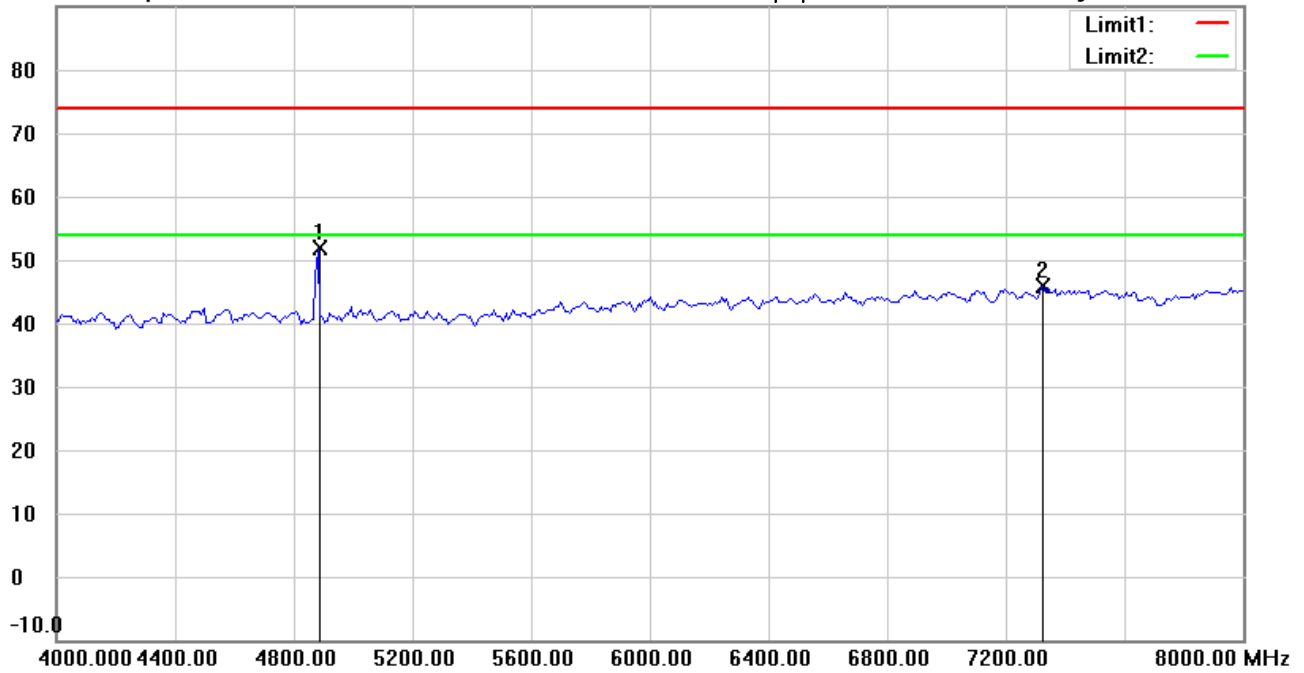
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:16:38

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4881.764	52.26	peak	-0.29	51.97	74.00	150	175	-22.03	
	7326.653	41.29	peak	4.71	46.00	74.00	150	120	-28.00	



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

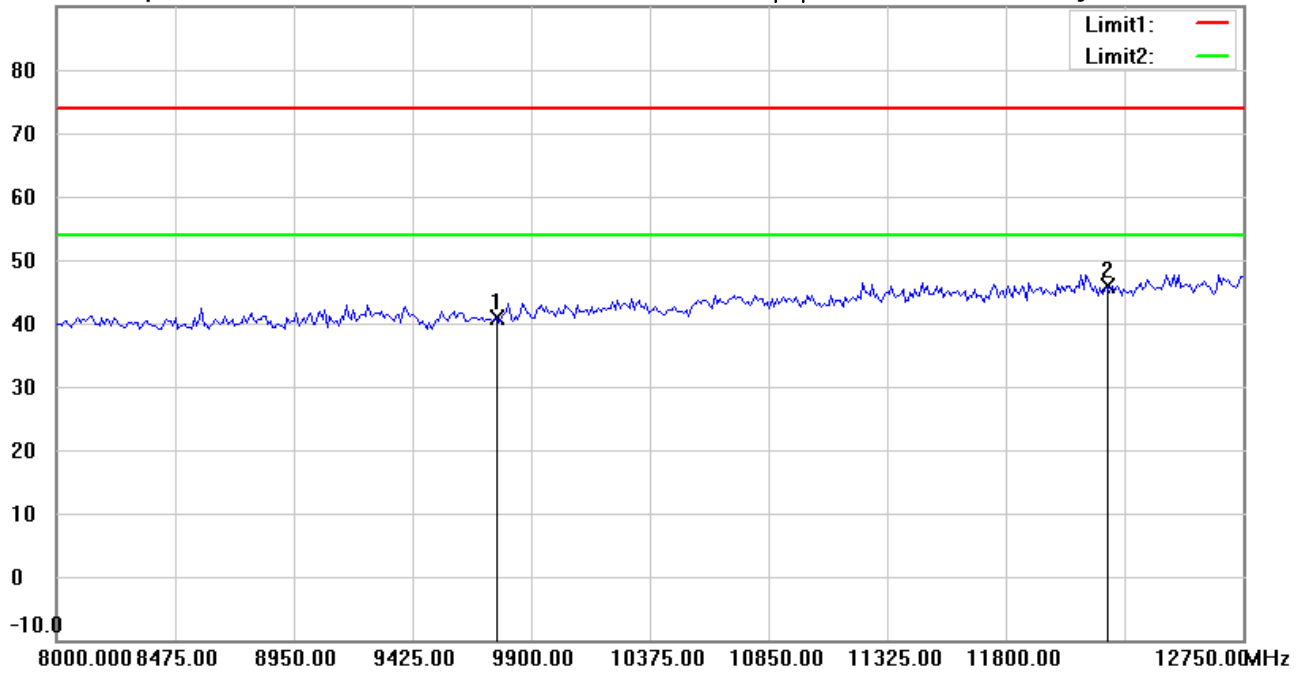
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:13:43

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	33.29	peak	7.70	40.99	74.00	150	75	-33.01	
*	12200.000	31.98	peak	13.87	45.85	74.00	150	230	-28.15	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

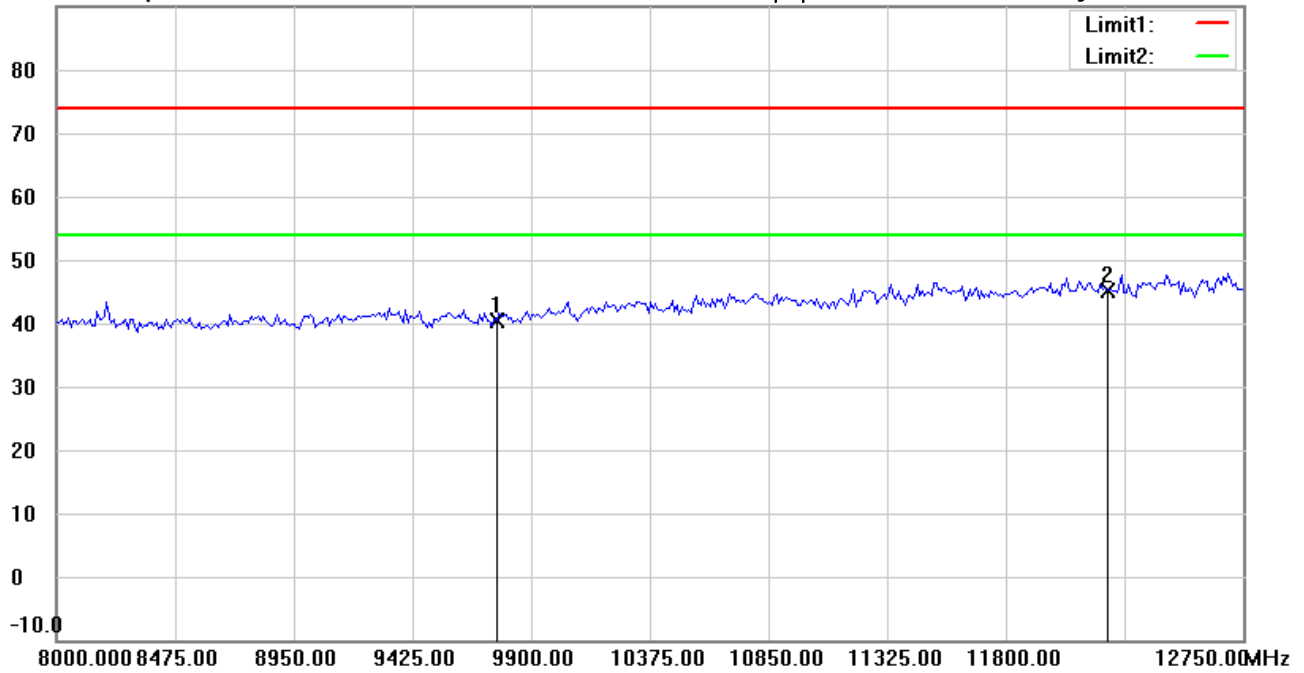
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:16:51

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	32.74	peak	7.70	40.44	74.00	150	330	-33.56	
*	12200.000	31.31	peak	13.87	45.18	74.00	150	165	-28.82	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

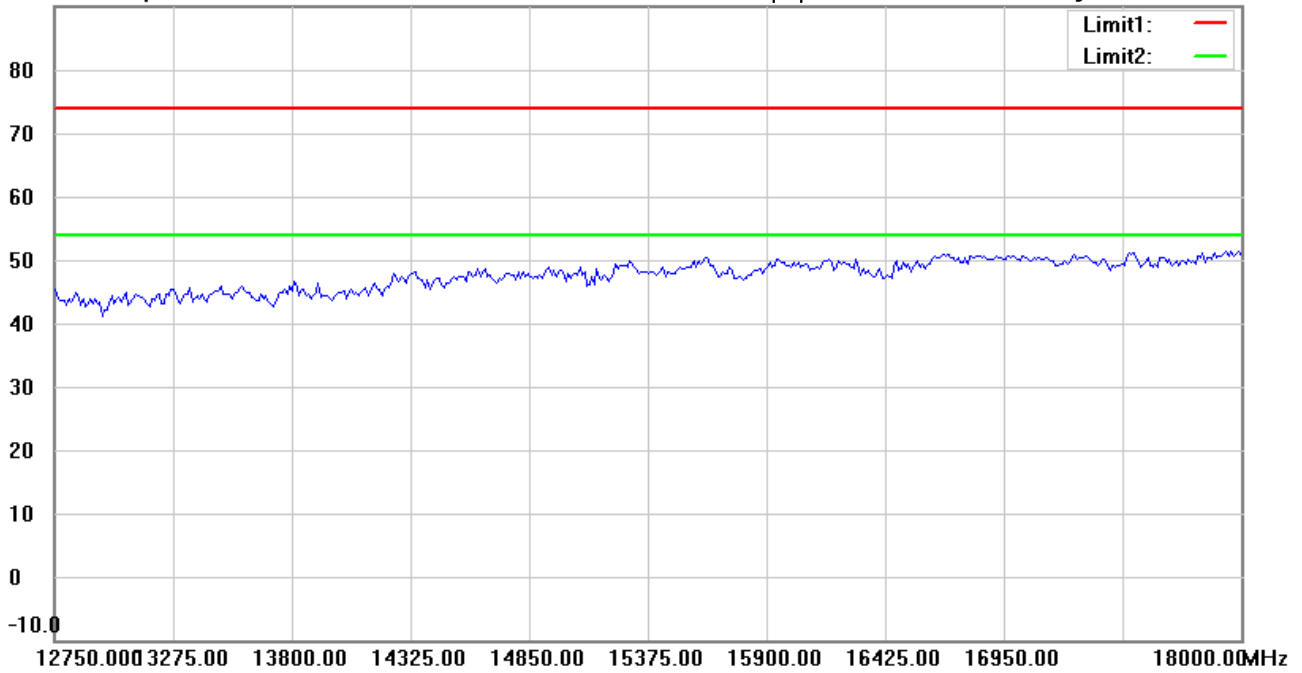
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:14:41

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

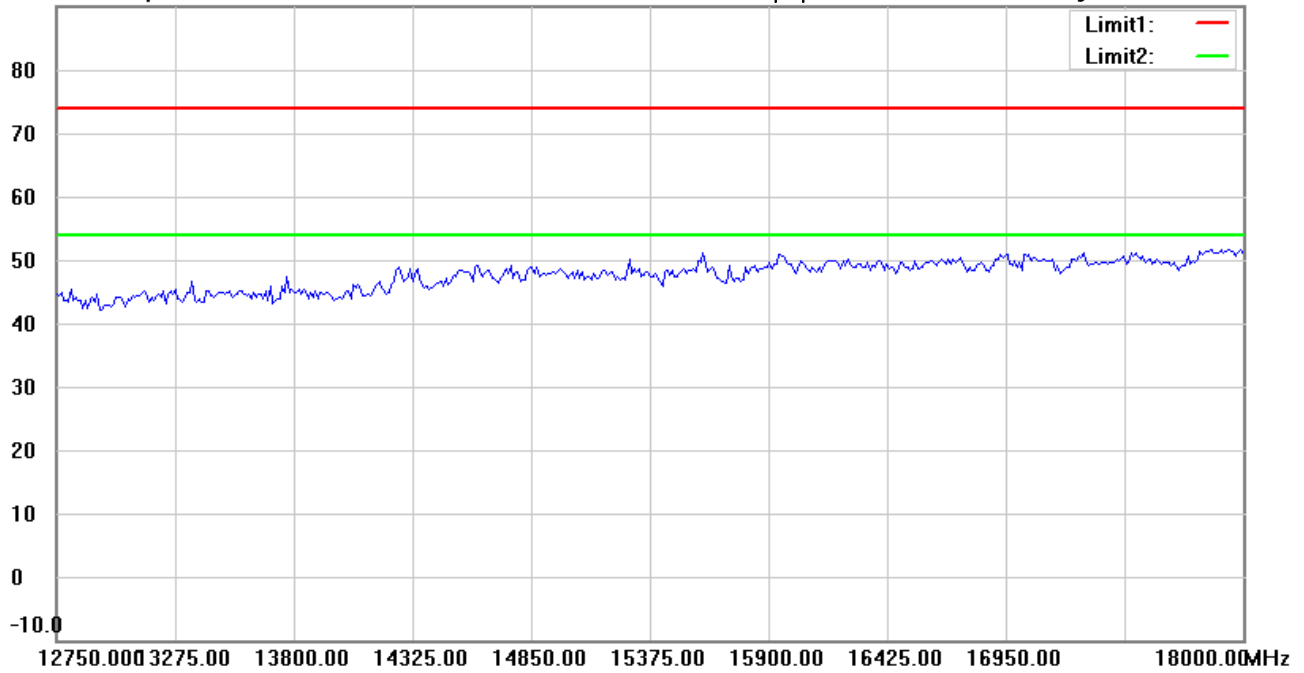
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:17:53

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#5

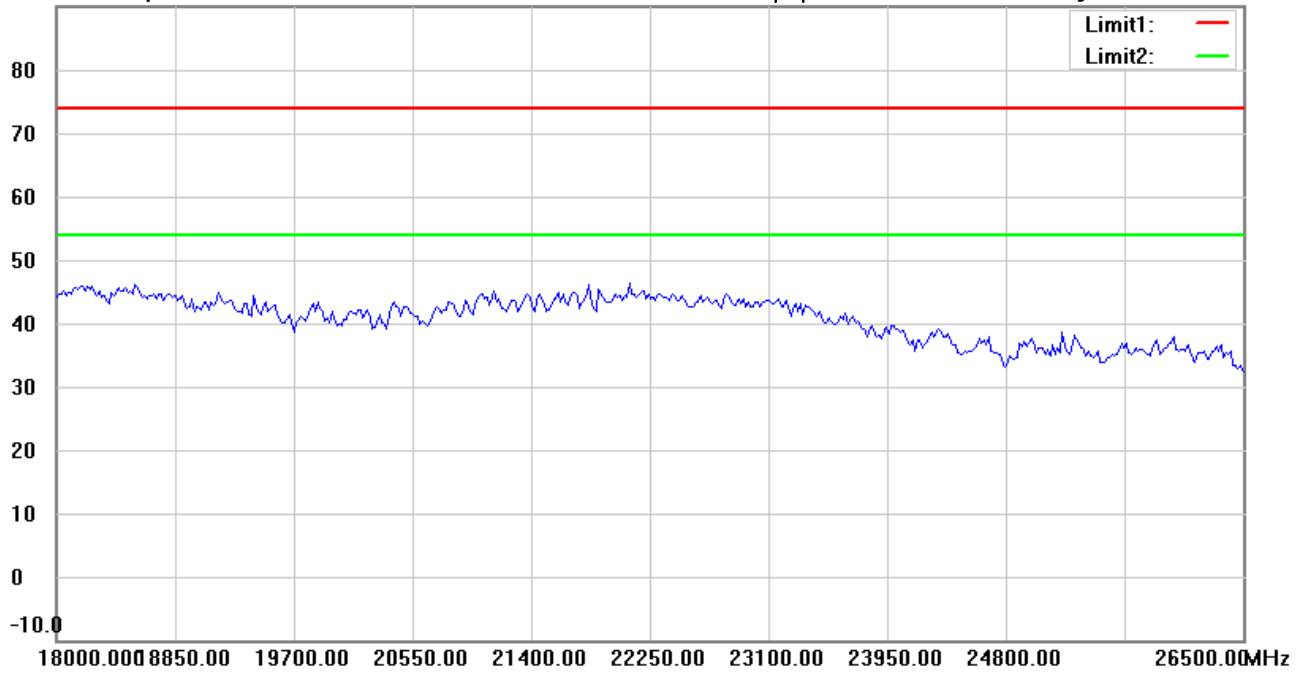
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:14:50

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

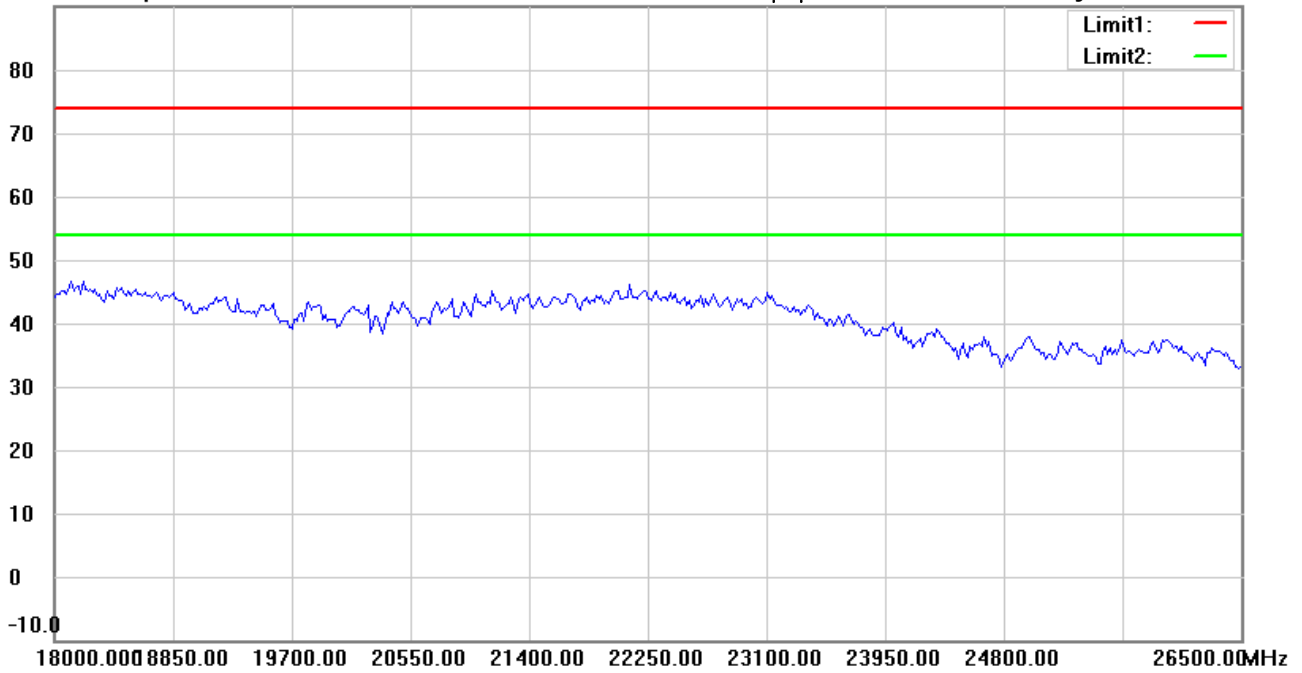
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 10:18:02

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

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



Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

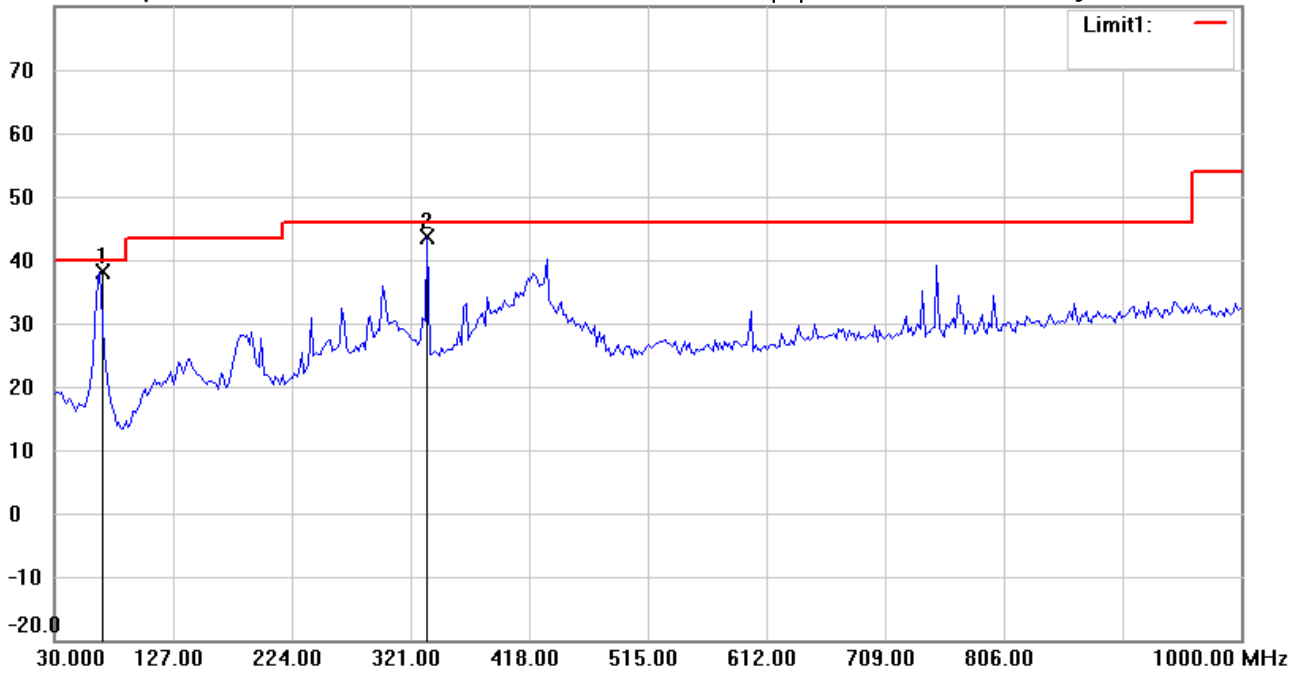
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:05:10

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	66.9340	51.15	peak	-12.98	38.17	40.00	100	245	-1.83	
	335.1904	48.70	peak	-5.00	43.70	46.00	100	170	-2.30	



Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

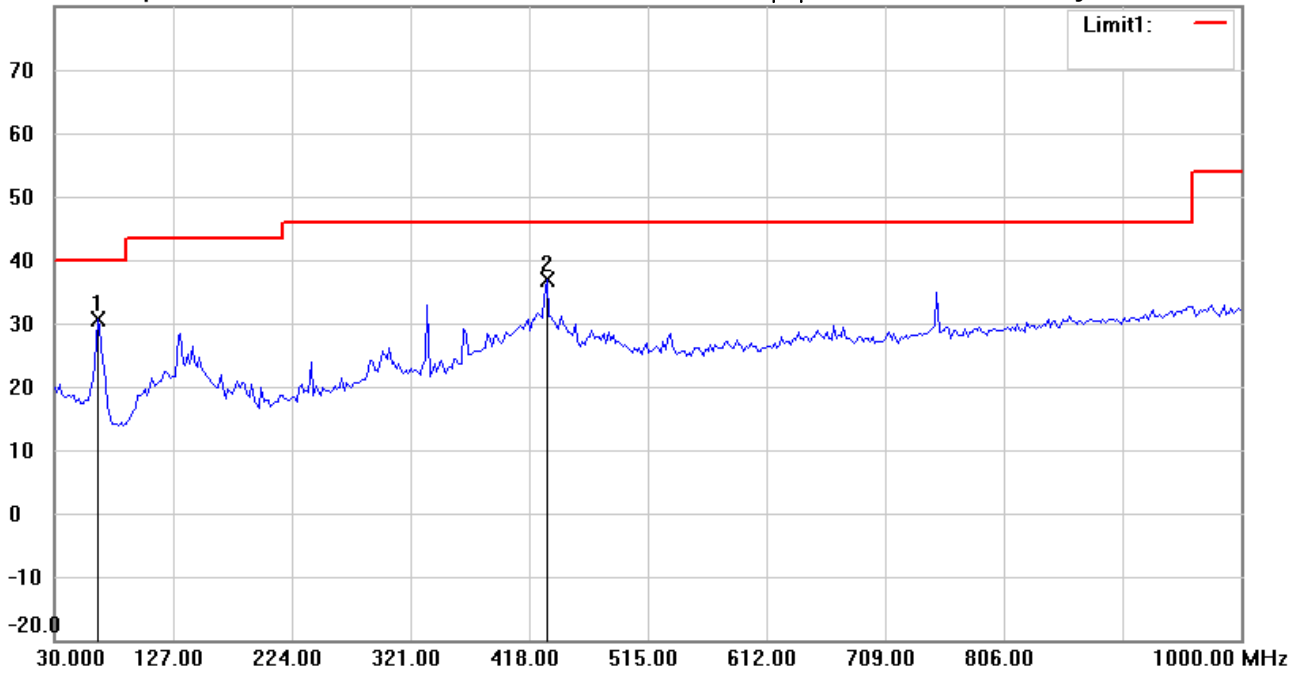
Date: 2017/4/10

Temperature:24 °C

80.0 dBuV/m

Time: 下午 09:06:04

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	64.9900	43.42	peak	-12.67	30.75	40.00	100	65	-9.25	
*	432.3848	39.99	peak	-3.15	36.84	46.00	100	90	-9.16	



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

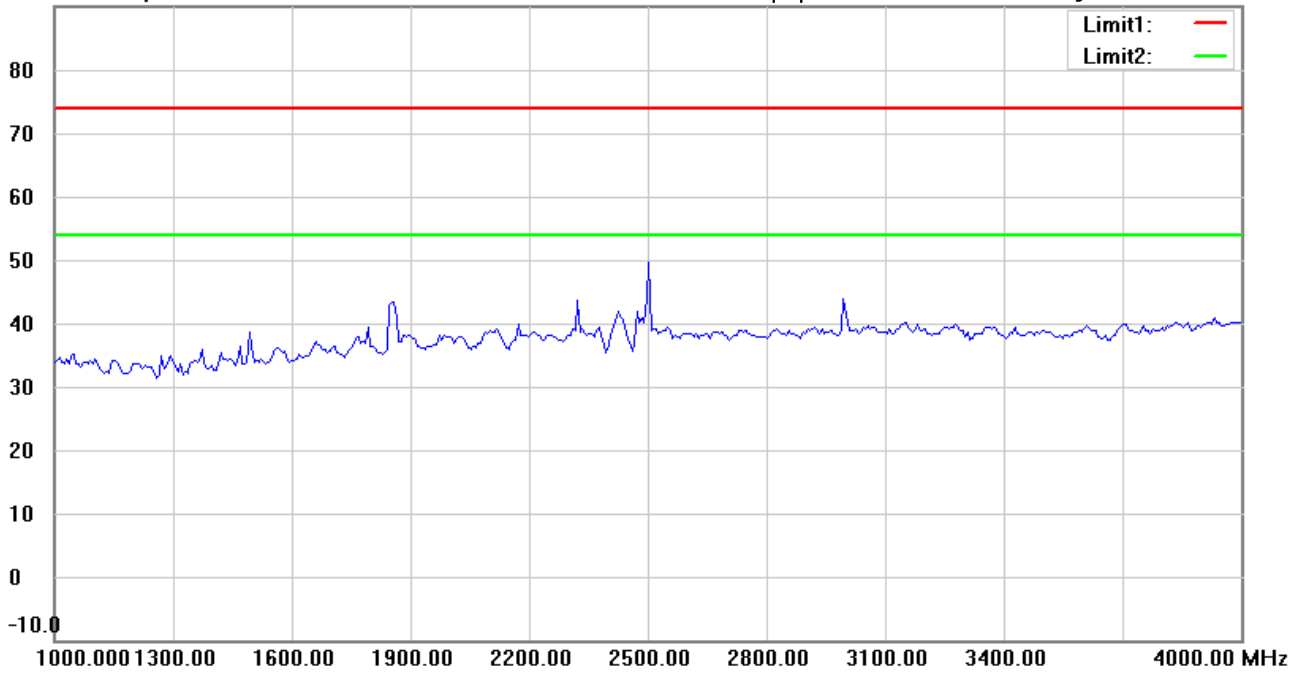
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:04:16

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#6

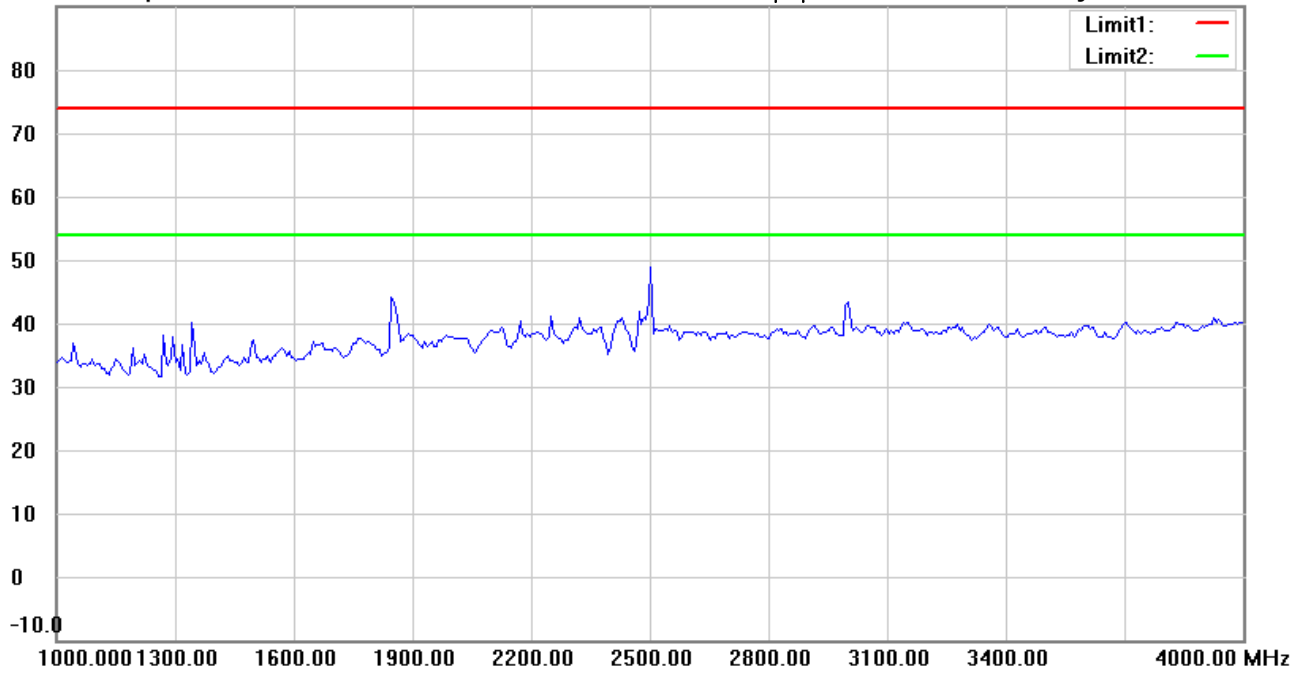
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:07:25

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

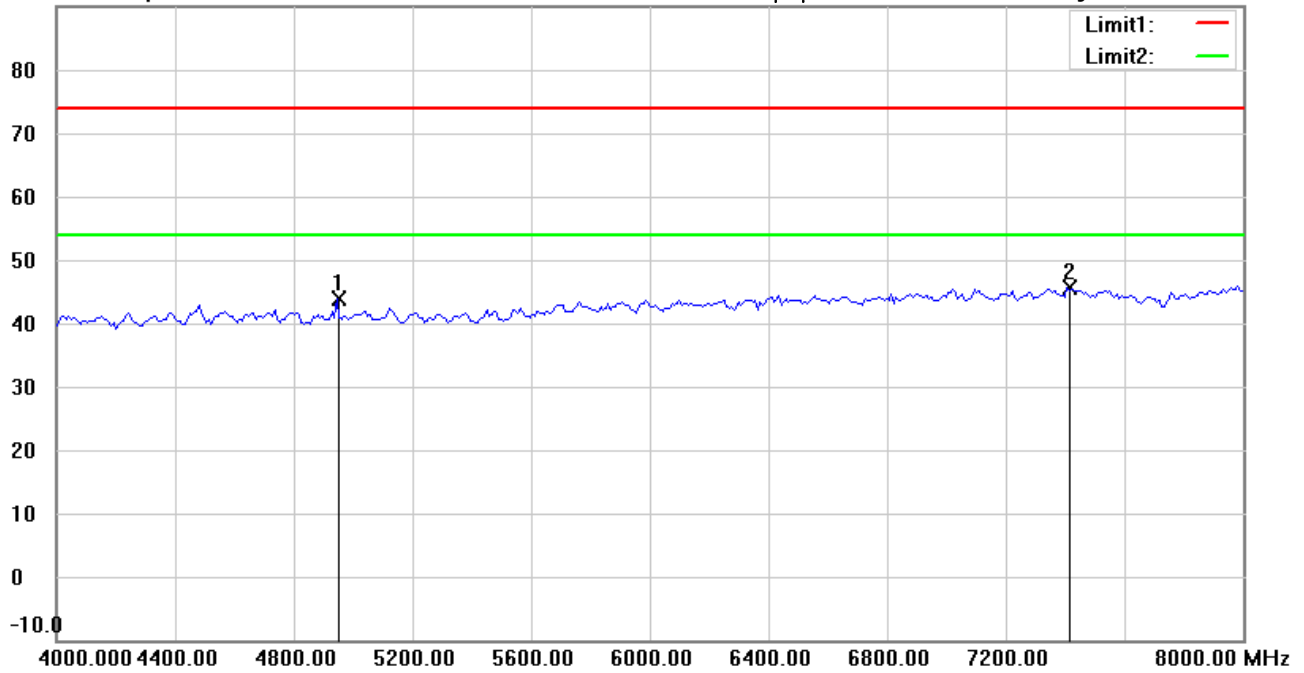
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:05:10

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4945.892	44.04	peak	-0.07	43.97	74.00	150	90	-30.03	
*	7406.814	40.40	peak	5.13	45.53	74.00	150	185	-28.47	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

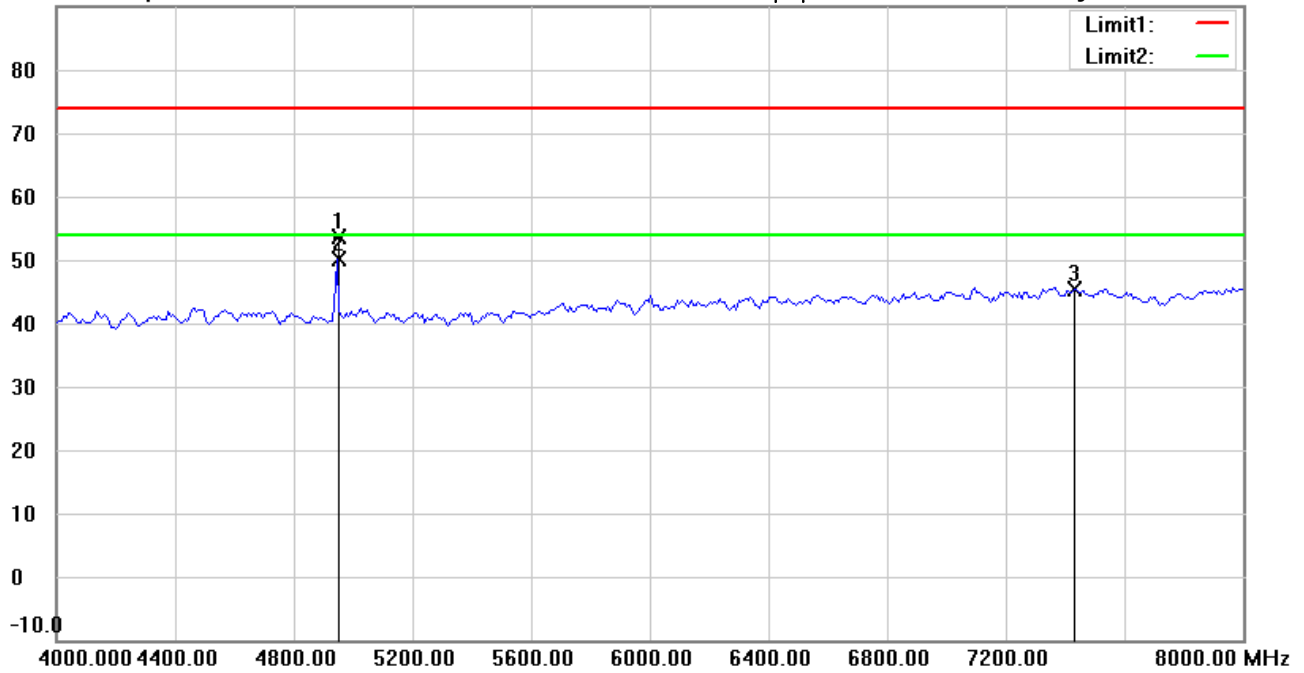
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:08:19

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4945.892	53.76	peak	-0.07	53.69	74.00	150	255	-20.31	
*	4945.892	50.08	AVG	-0.07	50.01	54.00	150	255	-3.99	
	7425.000	40.39	peak	5.07	45.46	74.00	150	190	-28.54	



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

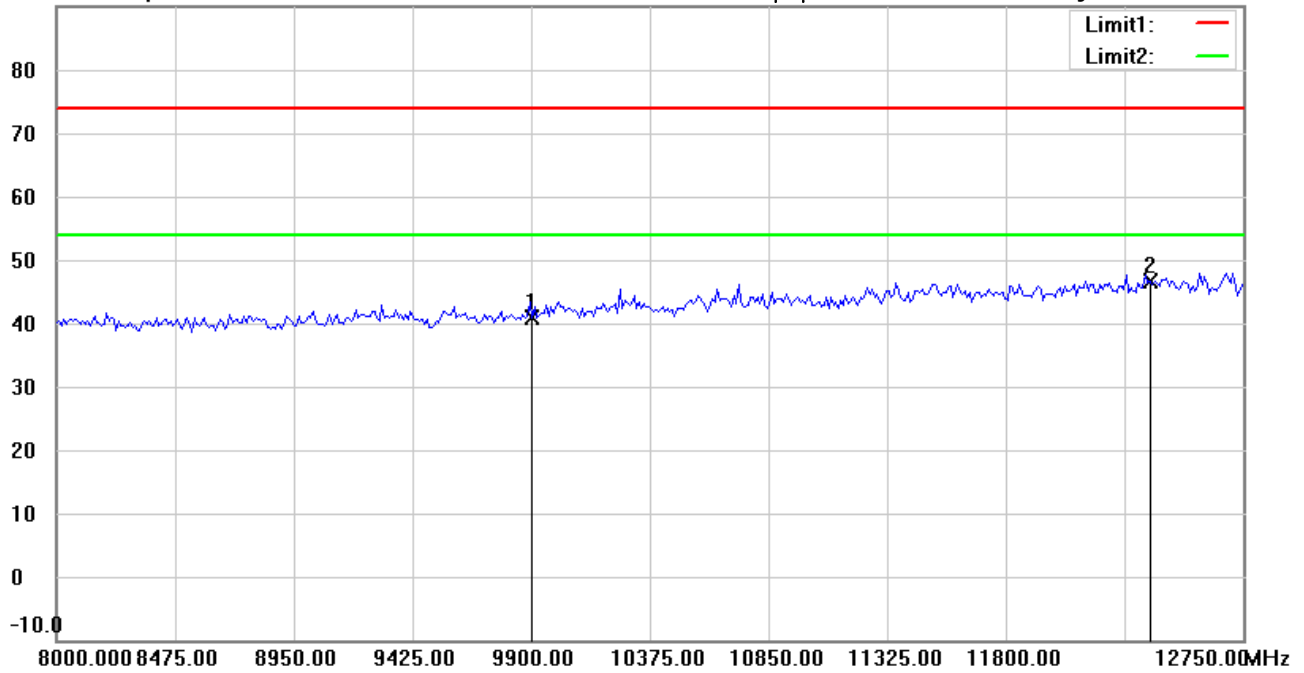
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:05:23

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9896.000	32.81	peak	7.99	40.80	74.00	150	245	-33.20	
*	12370.000	32.76	peak	13.82	46.58	74.00	150	170	-27.42	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

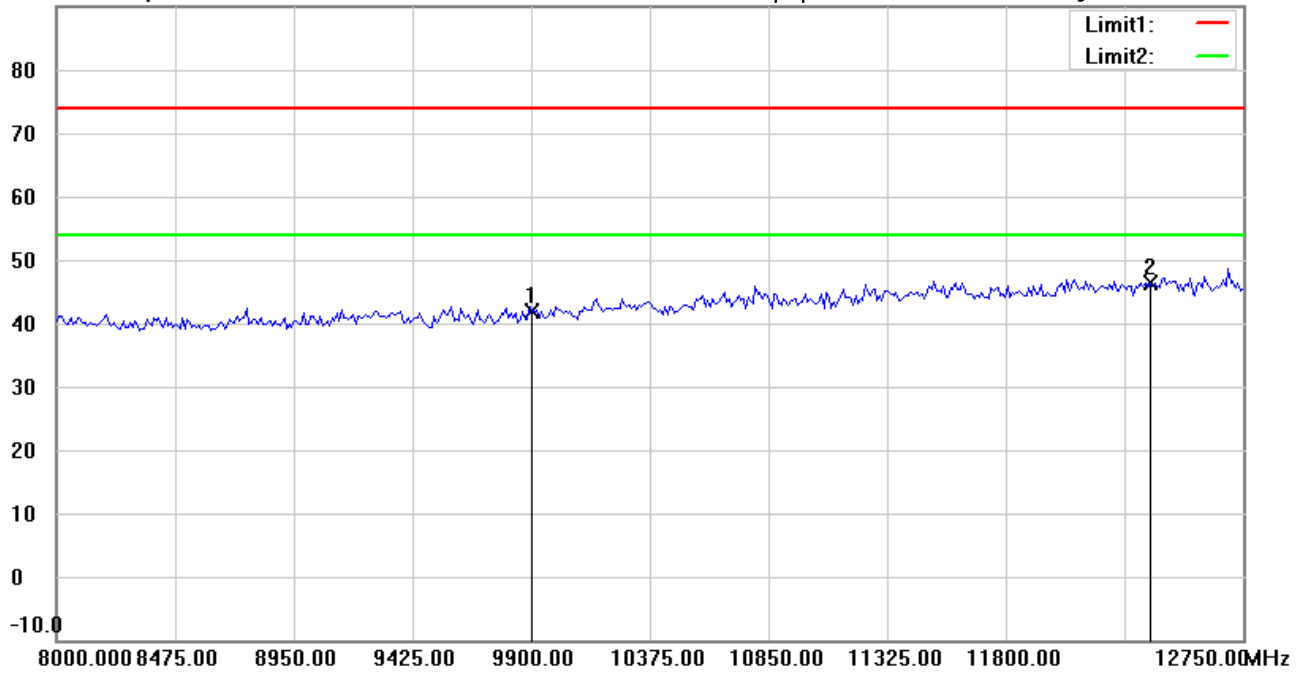
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:08:32

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9896.000	33.86	peak	7.99	41.85	74.00	150	130	-32.15	
*	12370.000	32.53	peak	13.82	46.35	74.00	150	275	-27.65	

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

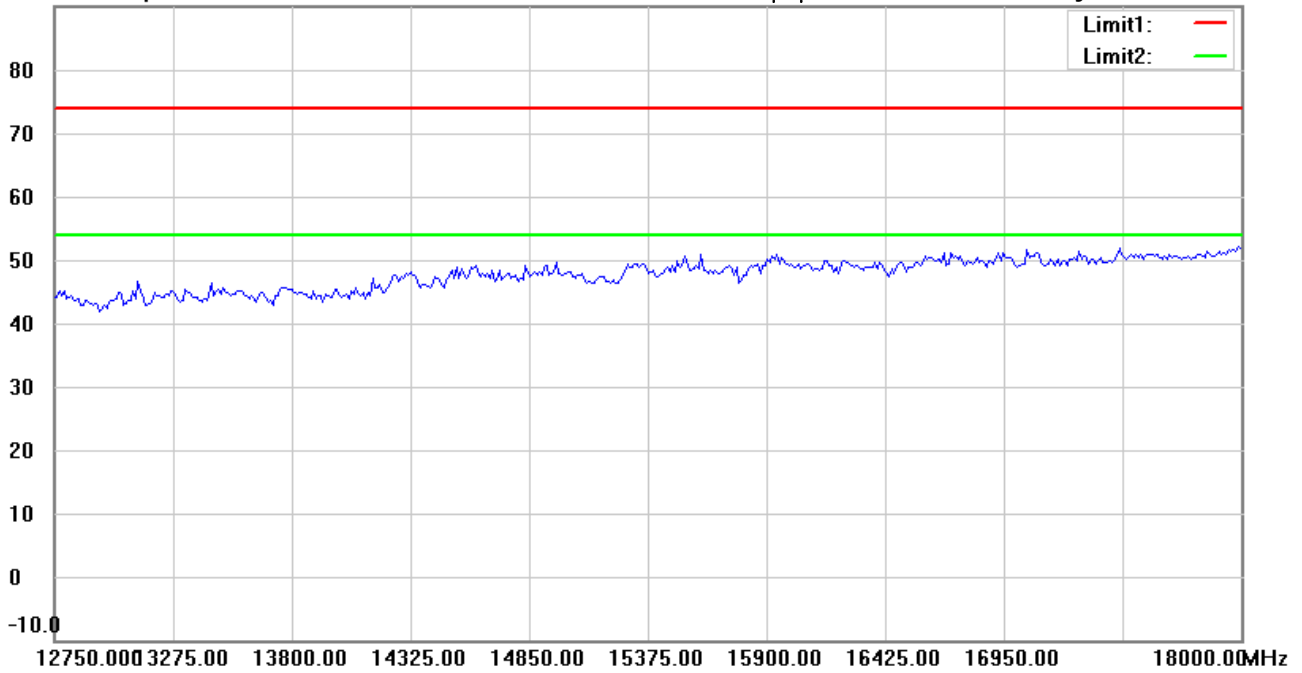
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:06:21

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

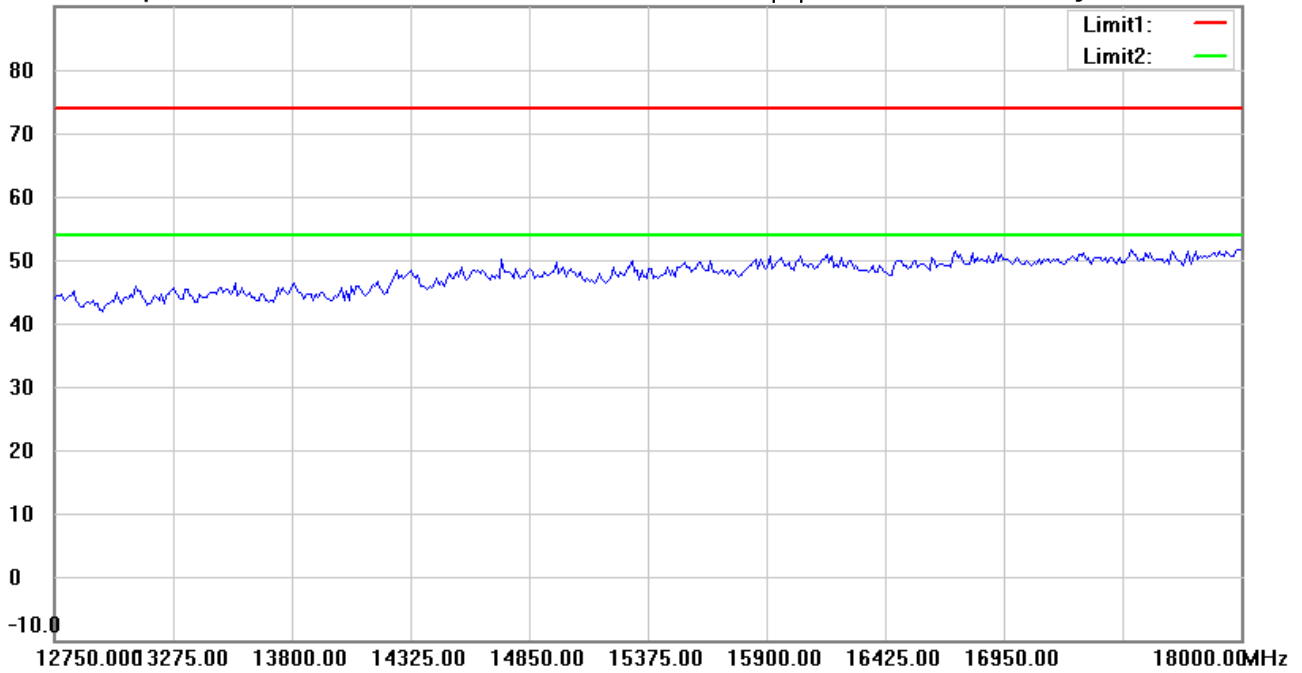
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:09:34

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#5

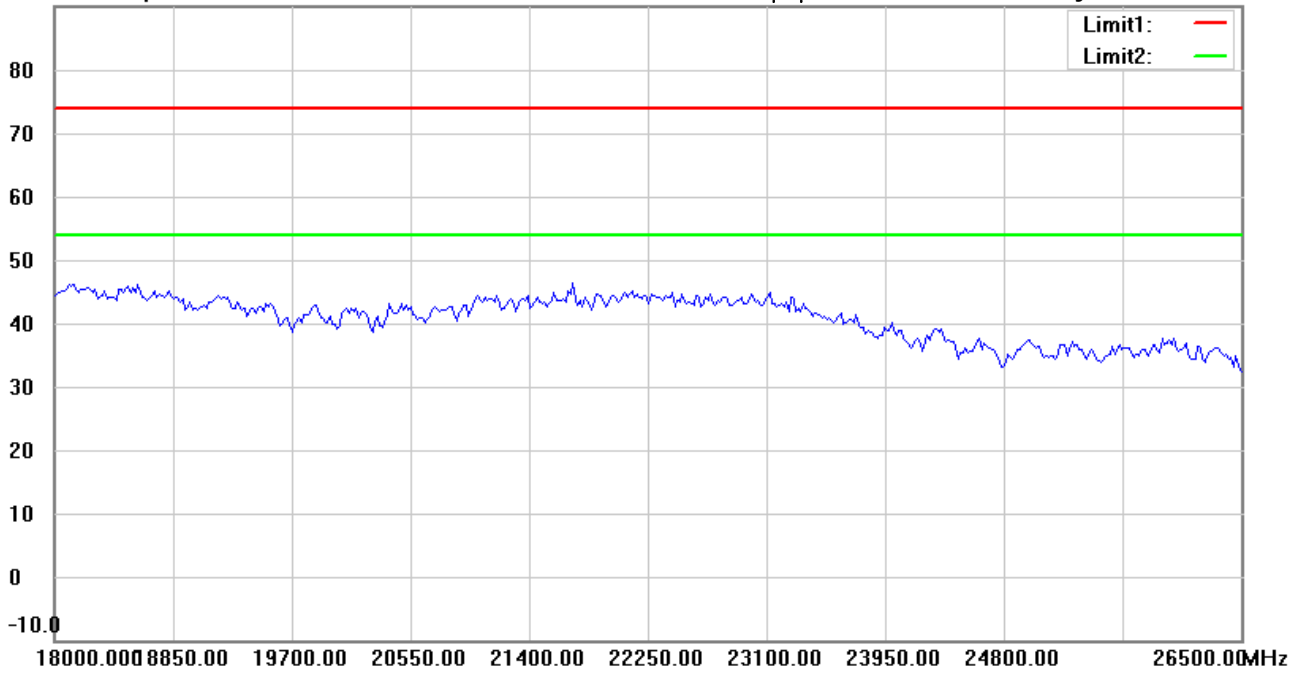
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:06:31

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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



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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

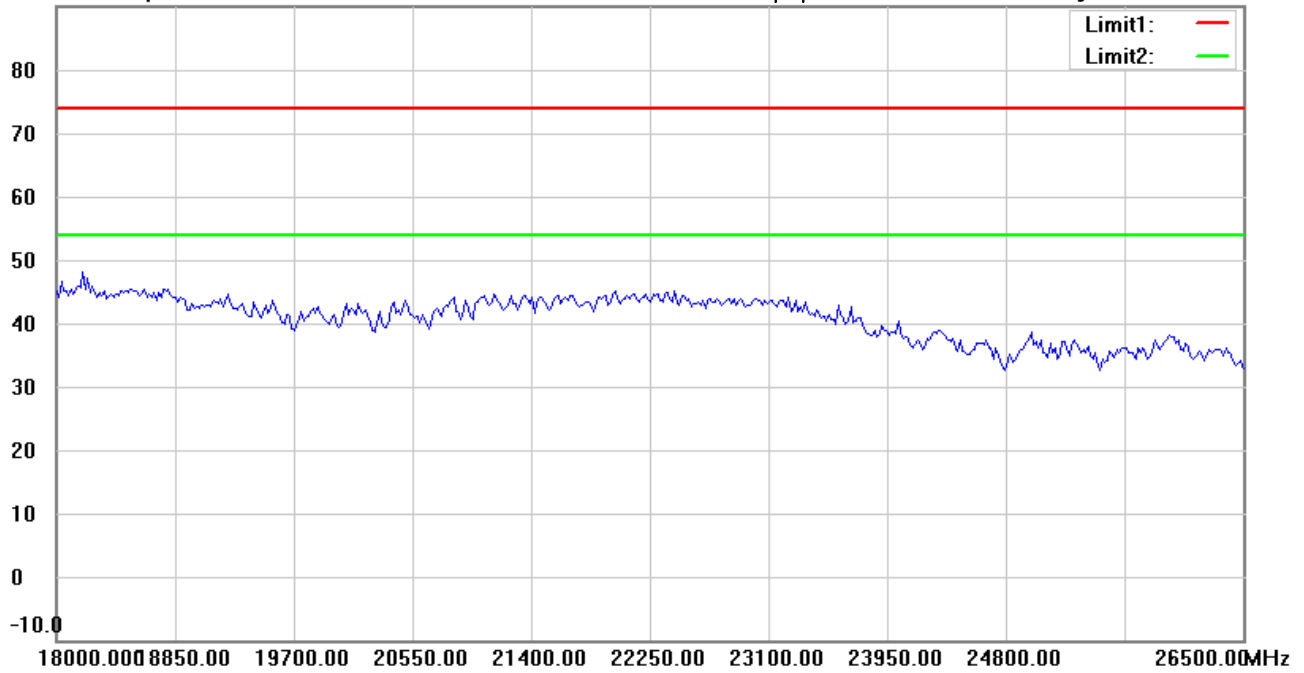
Date: 2017/4/10

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:09:44

Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21703-16772

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2474MHz

Note :

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