

FCC PART 15 SUBPART C TEST REPORT

for

A03598

Model No.: A03598

FCC ID: IPH-03598

of

Applicant: **Garmin International Inc.**

Address: **1200 East 151st Street Olathe, KS 66062 United States**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

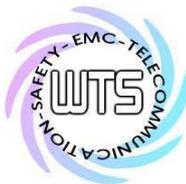
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21804-18010-C-9

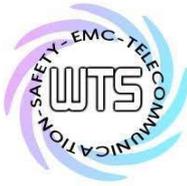
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



Registration number: W6M21804-18010-C-9
FCC ID: IPH-03598

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Worldwide Testing Services(Taiwan) Co., Ltd.

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1 General Information

1.1 Notes

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

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

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

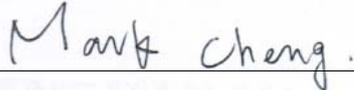
Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications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

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

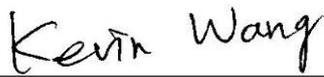
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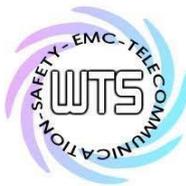
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Tester:

July 10, 2018		Mark Cheng	
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

July 10, 2018		Kevin Wang	
Date	WTS	Name	Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

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

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

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

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

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

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

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: ./.



Registration number: W6M21804-18010-C-9

FCC ID: IPH-03598

1.3 Details of approval holder

Name: Garmin International Inc.
Street: 1200 East 151st Street
Town: Olathe, KS 66062
Country: United States
Telephone: 1-913-397-8200
Fax: 1-913-397-8282

1.4 Application details

Date of receipt of test item: June 25, 2018
Date of test: from June 26, 2018 to July 10, 2018

1.5 General information of Test item

Type of test item: A03598
Model Number: A03598
Multi-listing model number: ./.
Photos: see Annex

Technical data

Frequency band: 2.400-2.4835 GHz
Operation Frequency: 2.402-2.479 GHz
Frequency 1: 2.402 GHz
Frequency 2: 2.441 GHz
Frequency 3: 2.479 GHz
Operation modes: Duplex
Modulation Type: GFSK
Antenna type: Chip antenna
Antenna gain: 1.7 dBi
Power supply: Charge 5 VDC
Battery 3.7 VDC, 2300 mAh, 8.6 Wh

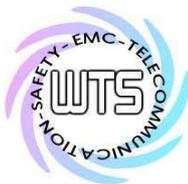
Manufacturer: (if different from applicant)

Name: Garmin Corporation
Street: No.68, Zhangshu 2nd Rd., Xizhi Dist.,
Town: New Taipei City 221,
Country: Taiwan (R.O.C.)

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2017-10)



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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

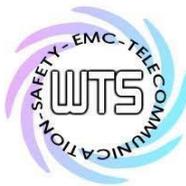
Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details Power supply: Charge 5 VDC
Battery 3.7 VDC, 2300 mAh, 8.6 Wh

Extreme conditions parameters: Not required

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : 1.54 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty : 0.009-30 MHz : 2.17 dB 30-1000 MHz : 3.57 dB 1-18 GHz : 2.60 dB 18-40 GHz : 2.58 dB
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.01 dB
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.98 dBc



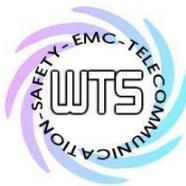
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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2018/5/30	2019/5/29
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2017/10/26	2018/10/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2017/8/22	2018/8/21
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2017/7/14	2018/7/13
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2017/8/31	2018/8/30
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2018/7/2	2019/7/1
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2018/5/30	2019/5/29
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/21	2019/5/20
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2017/8/25	2018/8/24
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	2018/7/2	2019/7/1
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2018/7/2	2019/7/1
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2018/3/26	2019/3/25
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2018/1/23	2019/1/22
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2018/4/13	2019/4/12
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2018/4/26	2019/4/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2018/3/6	2019/3/5
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2018/3/1	2019/2/28
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2018/3/30	2019/3/29
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	2017/9/11	2018/9/10
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2017/9/19	2018/9/18
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2018/4/16	2019/4/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2018/2/23	2019/2/22
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	

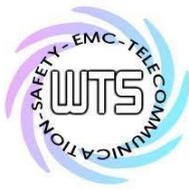


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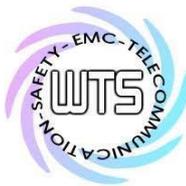
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2018/1/15	2019/1/14
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2018/5/29	2019/5/28
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2018/2/27	2019/2/26
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2018/3/30	2019/3/29
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2018/3/23	2019/3/22
ETSTW-RE 151	Thermohyrometer	608-h1	45104376	TESTO	2017/8/30	2018/8/29
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2018/5/10	2019/5/9
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2018/2/27	2019/2/26
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2018/3/2	2019/3/1
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2017/10/16	2018/10/15
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2017/9/13	2018/9/12
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2018/3/7	2019/3/6
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2018/7/2	2019/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8



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ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2017/8/31	2018/8/30
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2018/6/9	2019/6/8
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:

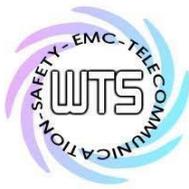
Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

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.

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.

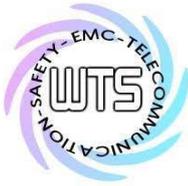


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3 Test results (enclosure)

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 Digital 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.



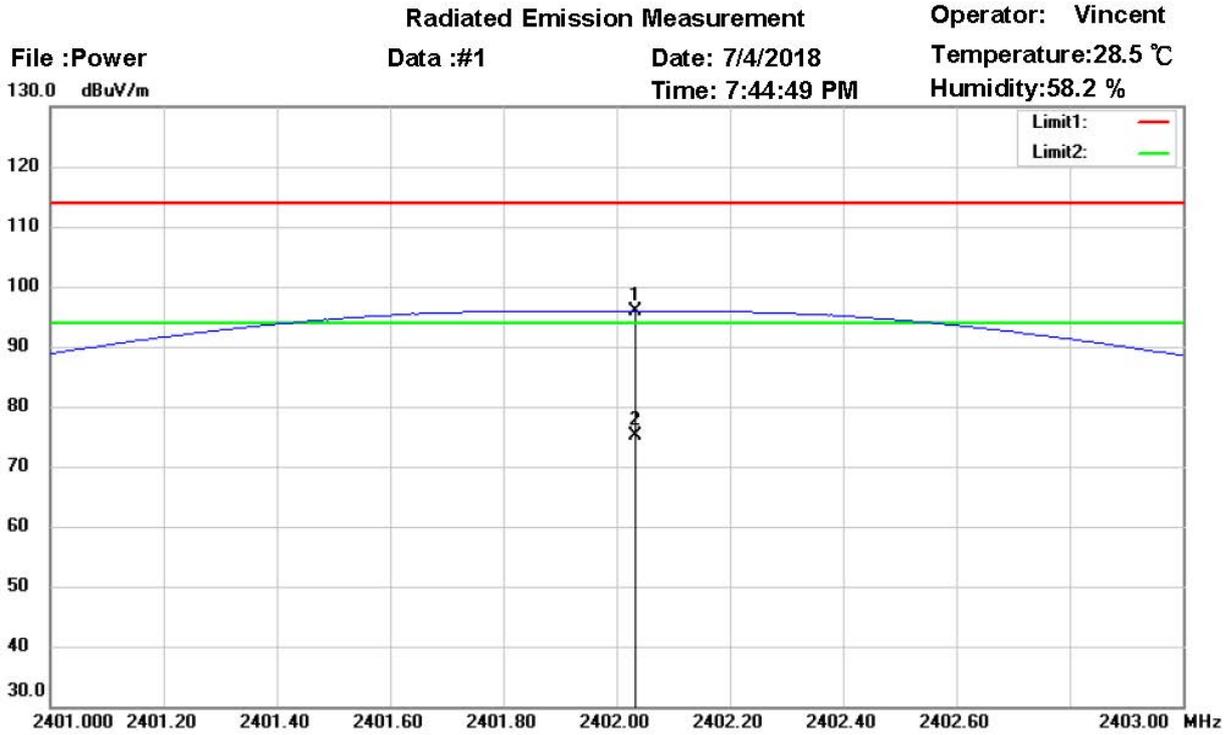
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

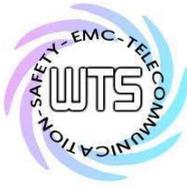
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

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



Site : Chamber
 Condition : FCC 15.249 power_PK Polarization: *Horizontal*
 EUT : W6M21804-18010 Power : 3.7 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 2402MHz
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2402.034	56.90	peak	39.00	95.90	114.00	150	281	-18.10	
	2402.034	36.25	AVG	39.00	75.25	94.00	150	281	-18.75	



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Radiated Emission Measurement

Operator: Vincent

File :Power
 130.0 dBuV/m

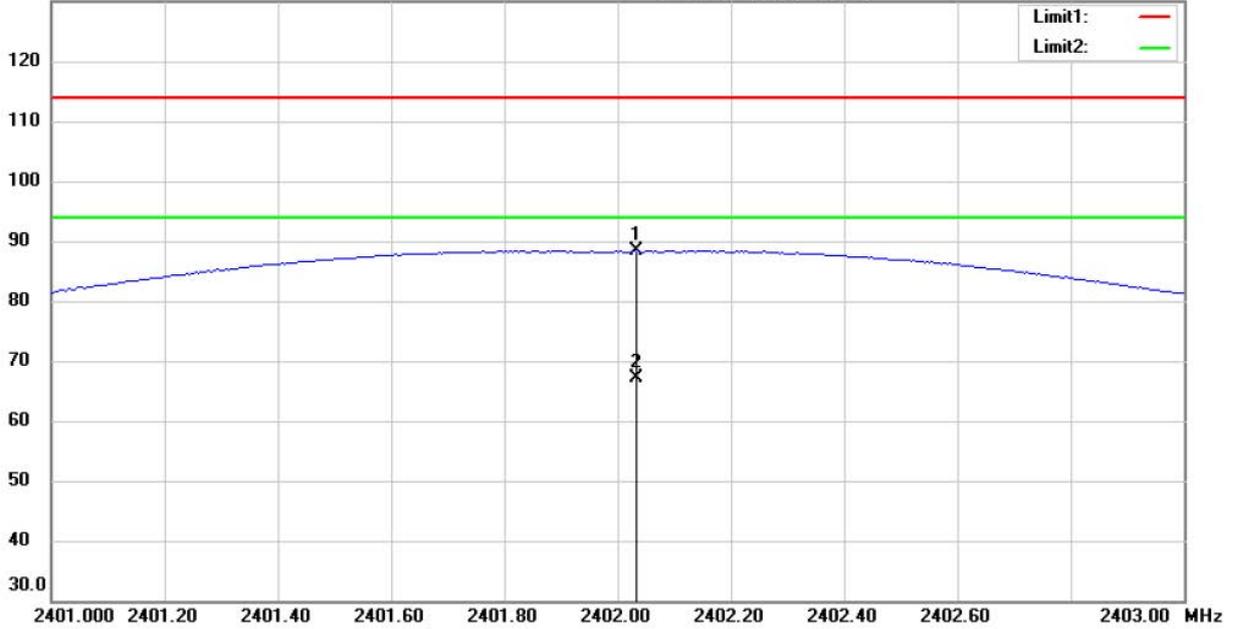
Data :#2

Date: 7/4/2018

Temperature:28.5 °C

Time: 10:00:20 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: **Vertical**

EUT : W6M21804-18010

Power : 3.7 Vd.c.

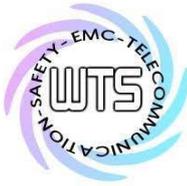
M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2402.034	49.41	peak	39.00	88.41	114.00	150	58	-25.59	
	2402.034	28.15	AVG	39.00	67.15	94.00	150	58	-26.85	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement

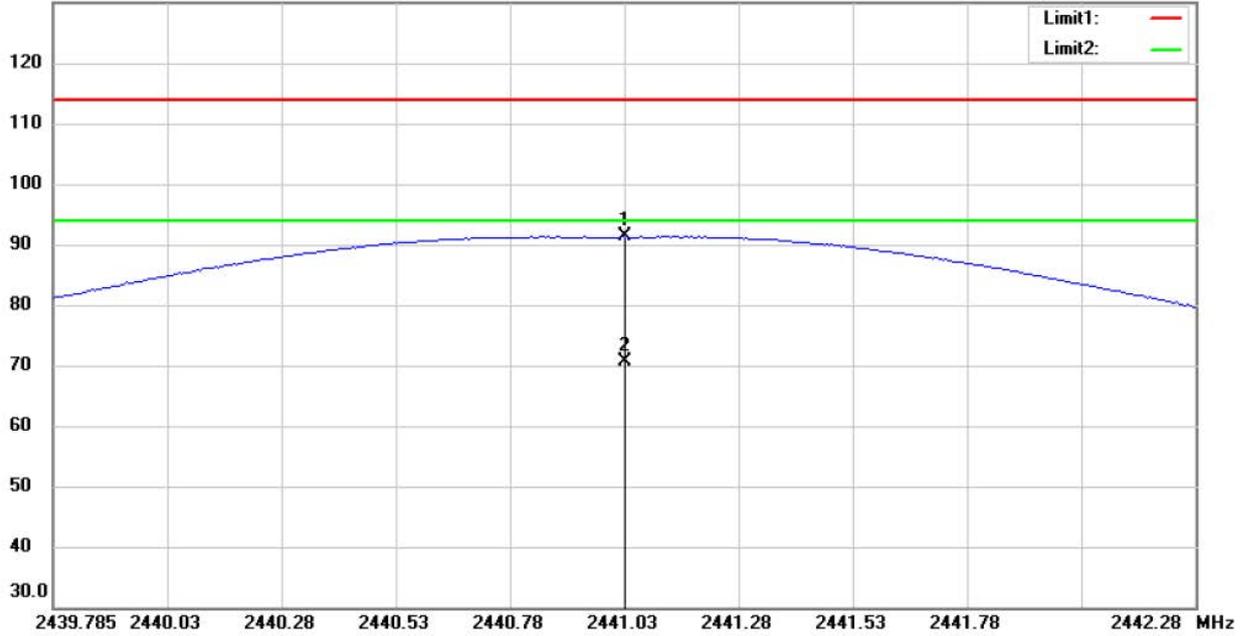
Operator: Vincent

File :Power
 130.0 dBuV/m

Data :#1

Date: 7/4/2018
 Time: 9:51:07 PM

Temperature:28.5 °C
 Humidity:58.2 %



Site : Chamber

Condition : FCC 15.249 power_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

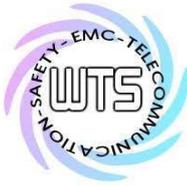
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2441.033	52.19	peak	39.21	91.40	114.00	150	264	-22.60	
	2441.033	31.42	AVG	39.21	70.63	94.00	150	264	-23.37	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement

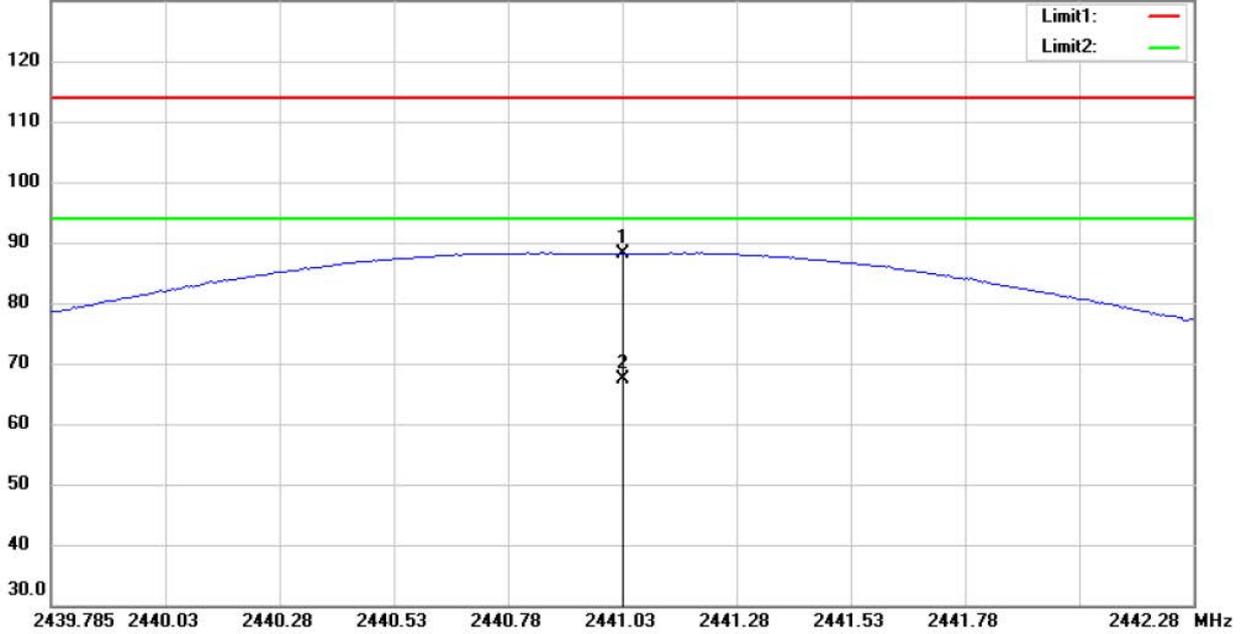
Operator: Vincent

File :Power
 130.0 dBuV/m

Data :#2

Date: 7/4/2018
 Time: 9:54:16 PM

Temperature:28.5 °C
 Humidity:58.2 %



Site : Chamber

Condition : FCC 15.249 power_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

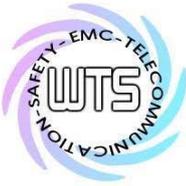
Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

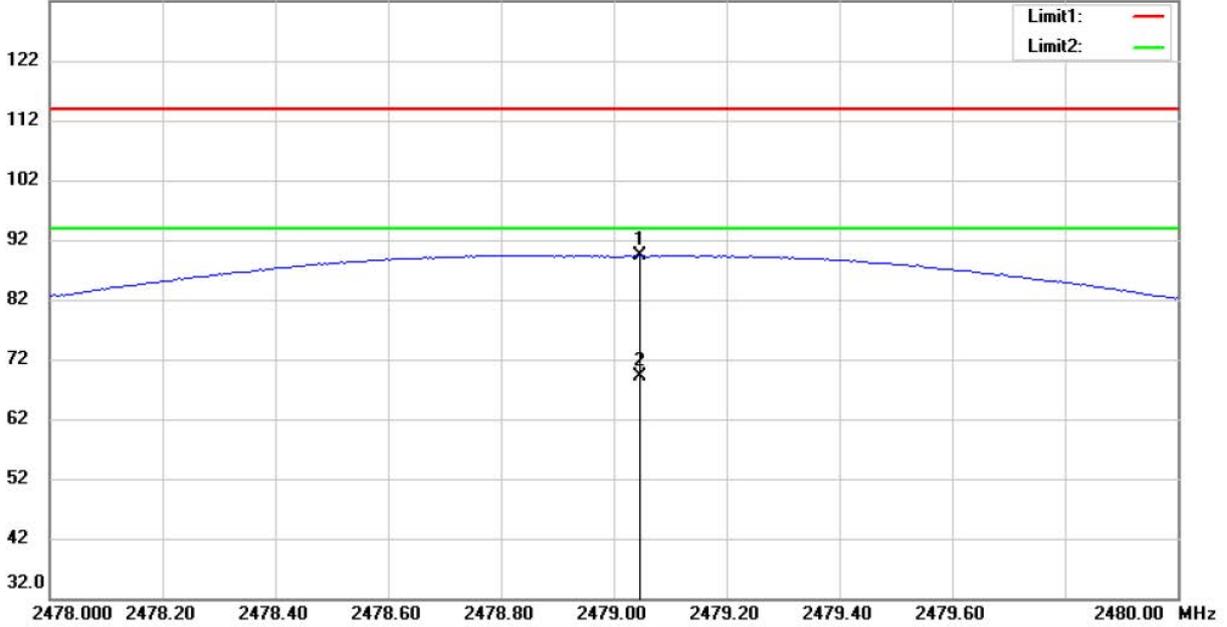
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2441.033	49.04	peak	39.21	88.25	114.00	180	55	-25.75	
	2441.033	28.16	AVG	39.21	67.37	94.00	180	55	-26.63	



Worldwide Testing Services(Taiwan) Co., Ltd.

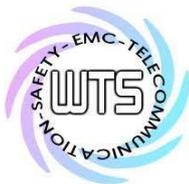
Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement Operator: Vincent
 File :Power Data :#1 Date: 7/4/2018 Temperature:28.5 °C
 132.0 dBuV/m Time: 10:12:09 PM Humidity:58.2 %



Site : Chamber
 Condition : FCC 15.249 power_PK Polarization: *Horizontal*
 EUT : W6M21804-18010 Power : 3.7 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 2479MHz
 Note :

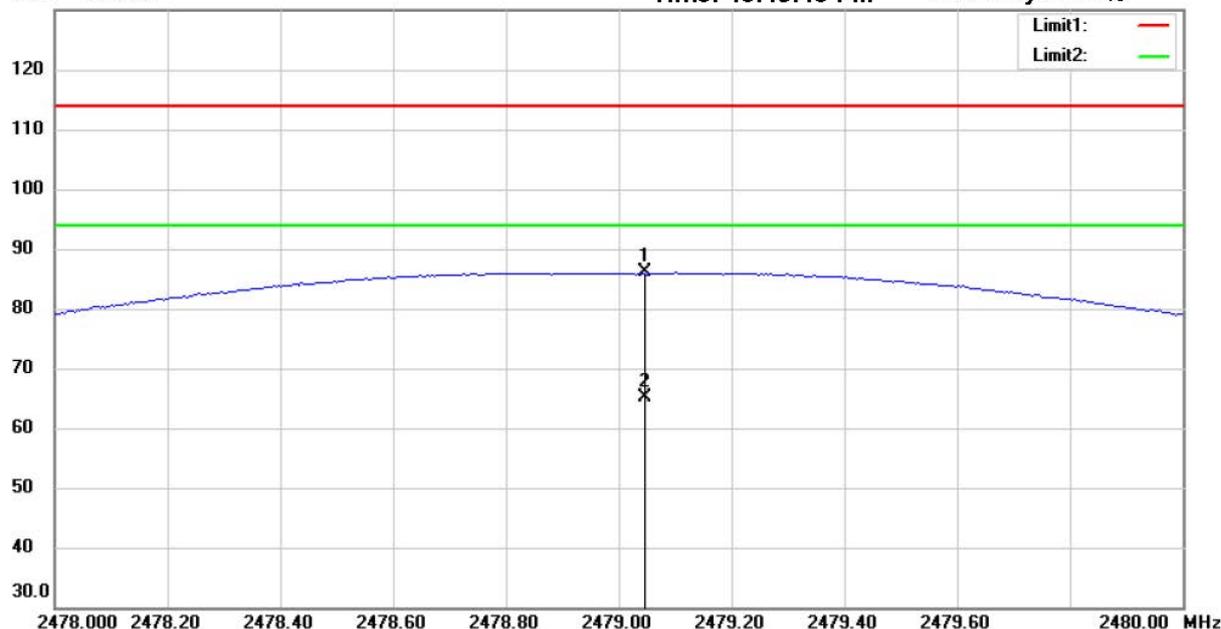
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2479.046	50.05	peak	39.41	89.46	114.00	150	270	-24.54	
	2479.046	29.71	AVG	39.41	69.12	94.00	150	270	-24.88	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

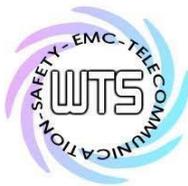
Radiated Emission Measurement Operator: Vincent
 File :Power Data :#2 Date: 7/4/2018 Temperature:28.5 °C
 130.0 dBuV/m Time: 10:15:16 PM Humidity:58.2 %



Site : Chamber
 Condition : FCC 15.249 power_PK Polarization: *Vertical*
 EUT : W6M21804-18010 Power : 3.7 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 2479MHz
 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
*	2479.046	46.69	peak	39.41	86.10	114.00	150	53	-27.90	
	2479.046	25.66	AVG	39.41	65.07	94.00	150	53	-28.93	

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



Registration number: W6M21804-18010-C-9

FCC ID: IPH-03598

3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

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 dBμV/m + 20 dB= 74dBμV/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

Explanation: Please see attached diagram as appendix.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9

FCC ID: IPH-03598

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: A03598 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 = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz = ± 2.58 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



Registration number: W6M21804-18010-C-9
FCC ID: IPH-03598

3.6 Radiated Emissions from Digital Part

Summary table with radiated data of the test plots

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

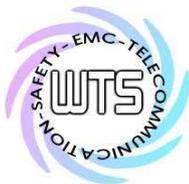
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

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 = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz = ± 2.58 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.**

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

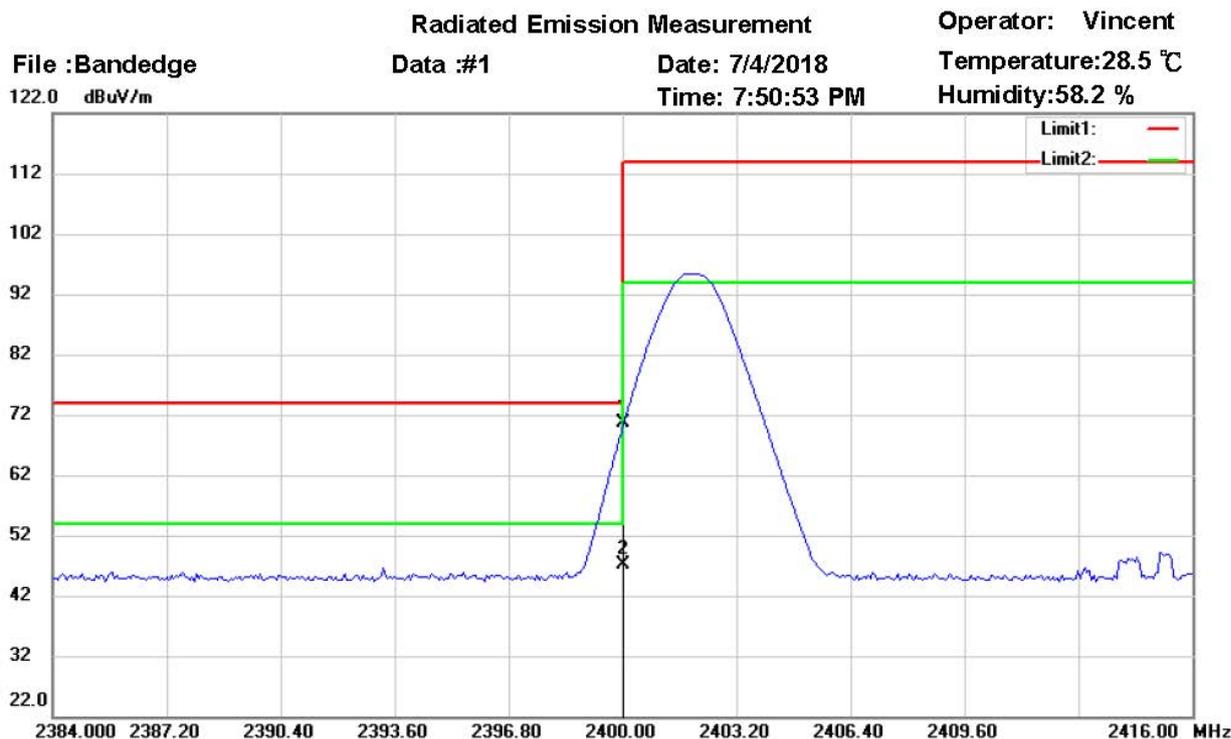
Explanation: The test results are listed in the separated test report no.: W6M21804-18010-P-15B.



Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

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 : W6M21804-18010

M/N:

Test Mode : TX 2402MHz

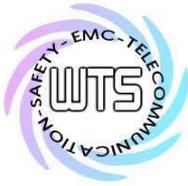
Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2400.000	31.66	peak	38.99	70.65	74.00	150	281	-3.35	
	2400.000	8.12	AVG	38.99	47.11	54.00	150	281	-6.89	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement

Operator: Vincent

File :Bandedge

Data :#2

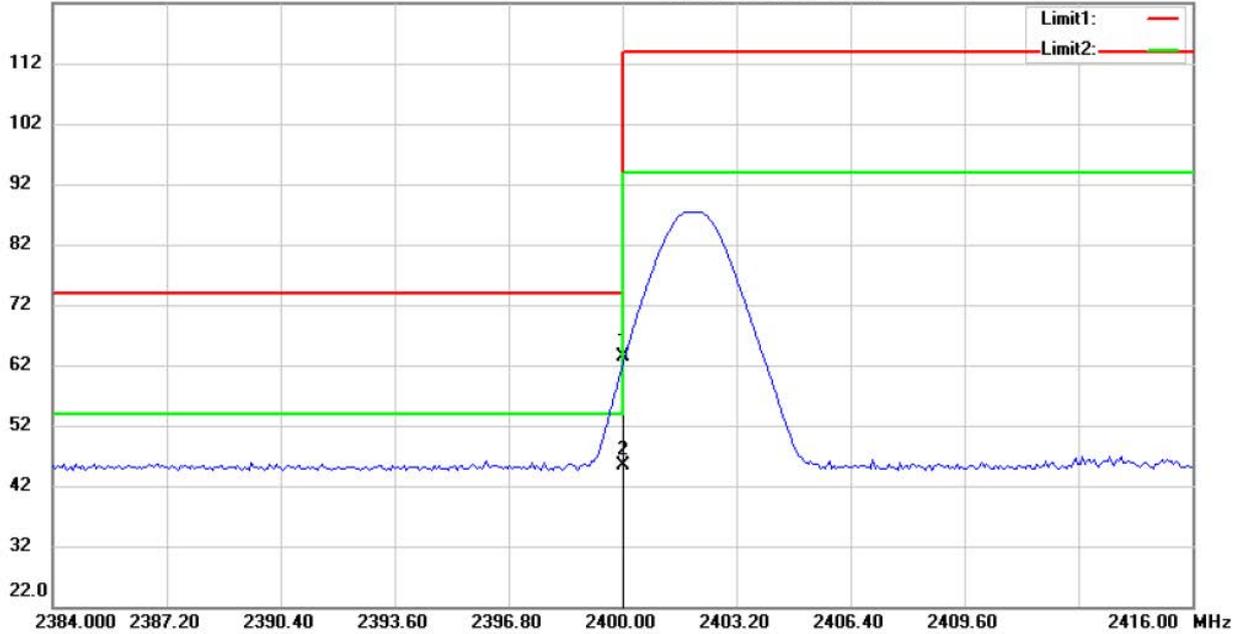
Date: 7/4/2018

Temperature:28.5 °C

122.0 dBuV/m

Time: 10:07:01 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

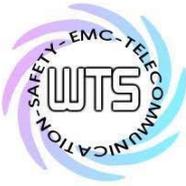
M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2400.000	24.38	peak	38.99	63.37	74.00	187	58	-10.63	
*	2400.000	6.35	AVG	38.99	45.34	54.00	187	58	-8.66	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement

Operator: Vincent

File :Bandedge

Data :#1

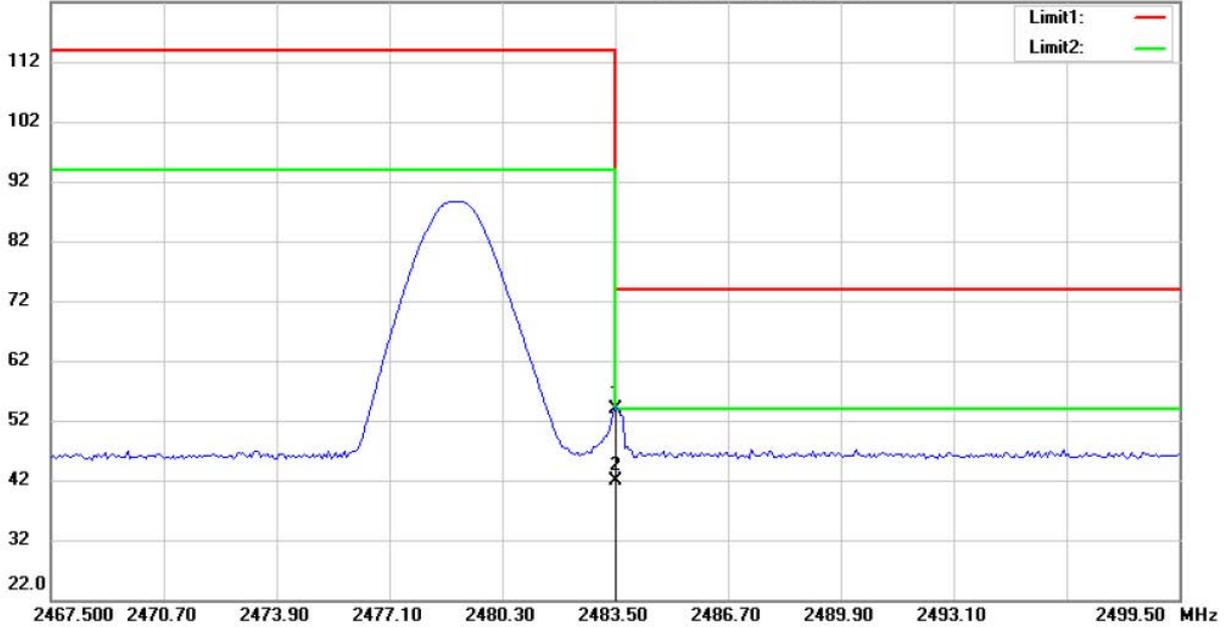
Date: 7/4/2018

Temperature:28.5 °C

122.0 dBuV/m

Time: 10:19:44 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

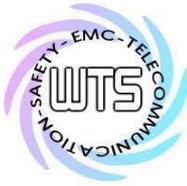
M/N:

Distance: 3m

Test Mode : TX 2479MHz

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	14.45	peak	39.43	53.88	74.00	150	270	-20.12	
*	2483.500	2.51	AVG	39.43	41.94	54.00	150	270	-12.06	

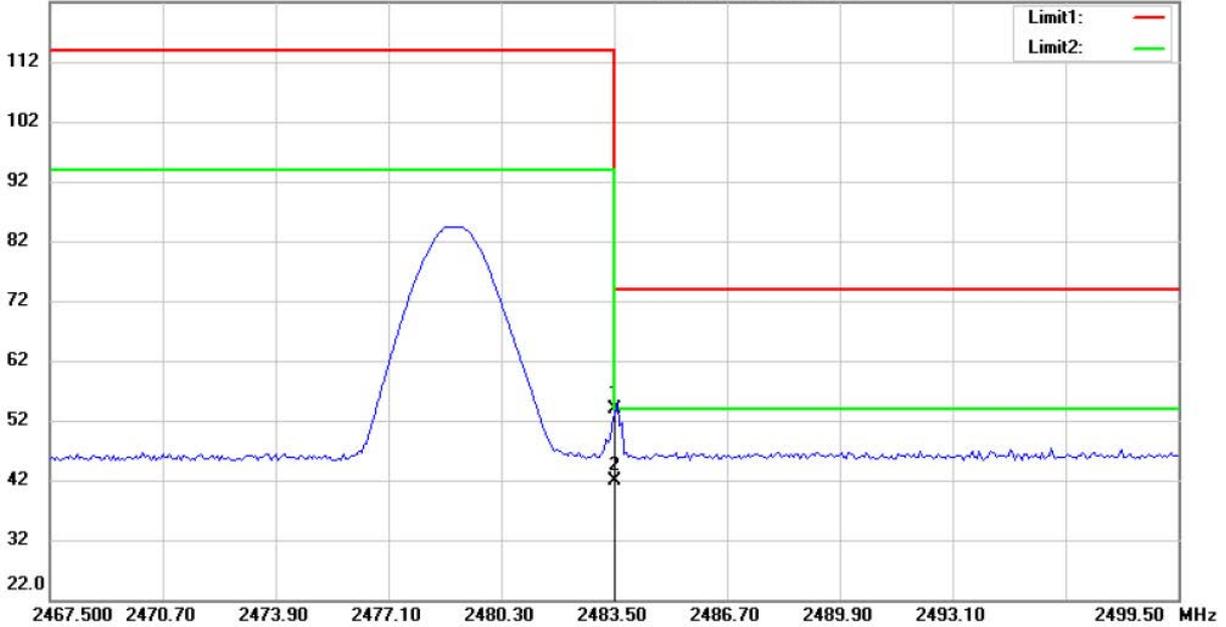


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Radiated Emission Measurement

File :Bandedge Data :#2 Date: 7/4/2018 Operator: Vincent
 122.0 dBuV/m Time: 10:22:08 PM Temperature:28.5 °C
 Humidity:58.2 %



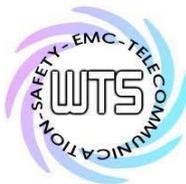
Site : Chamber
 Condition : FCC 15.249 PK (Bandedge) Polarization: **Vertical**
 EUT : W6M21804-18010 Power : 3.7 Vd.c.
 M/N: Distance: 3m
 Test Mode : TX 2479MHz
 Note :

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	14.37	peak	39.43	53.80	74.00	150	58	-20.20	
*	2483.500	2.44	AVG	39.43	41.87	54.00	150	58	-12.13	

Limit:

Frequency Range (MHz)	Limit (dB μ V/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

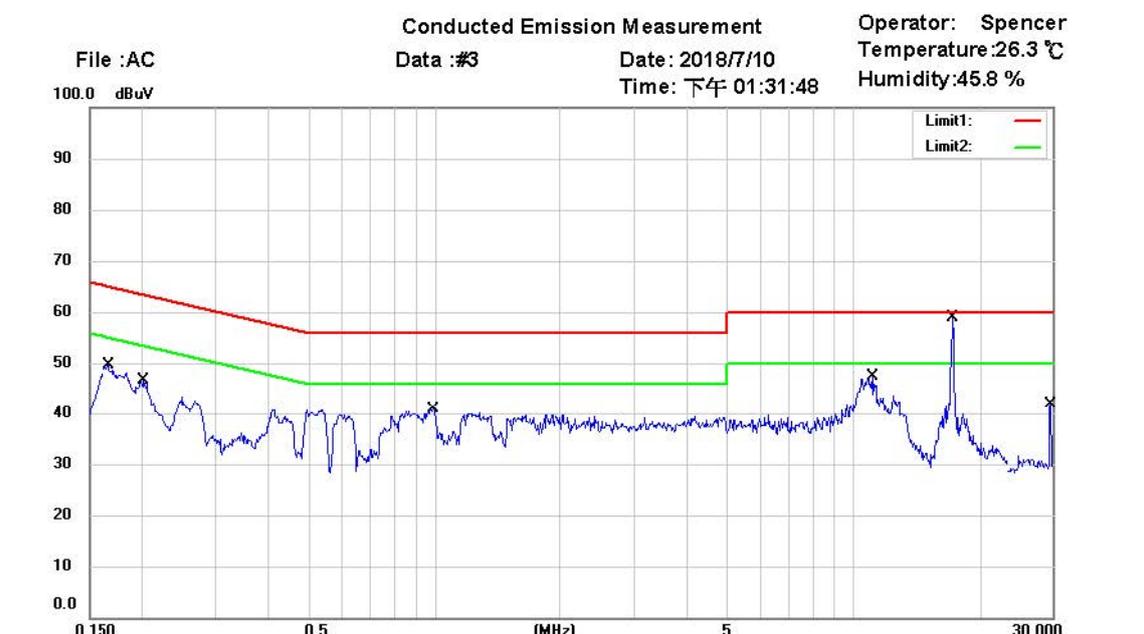


Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

3.8 Power Line Conducted Emission

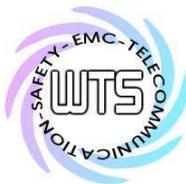
For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision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



Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: N
 EUT : W6M21804-18010 Power : 120V a.c.
 M/N:
 Test Mode : Charge
 Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1660	36.17	QP	9.79	45.96	65.16	-19.20	
	0.1660	28.96	AVG	9.79	38.75	55.16	-16.41	
	0.2023	31.91	QP	9.76	41.67	63.52	-21.85	
	0.2023	25.23	AVG	9.76	34.99	53.52	-18.53	
	0.9905	25.67	QP	9.81	35.48	56.00	-20.52	
	0.9905	15.26	AVG	9.81	25.07	46.00	-20.93	
	11.1250	30.97	QP	10.10	41.07	60.00	-18.93	
	11.1250	23.80	AVG	10.10	33.90	50.00	-16.10	
	17.1625	41.70	QP	10.22	51.92	60.00	-8.08	
*	17.1625	39.72	AVG	10.22	49.94	50.00	-0.06	
	29.5500	28.83	QP	10.49	39.32	60.00	-20.68	
	29.5500	16.57	AVG	10.49	27.06	50.00	-22.94	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9
 FCC ID: IPH-03598

Conducted Emission Measurement

Operator: Spencer

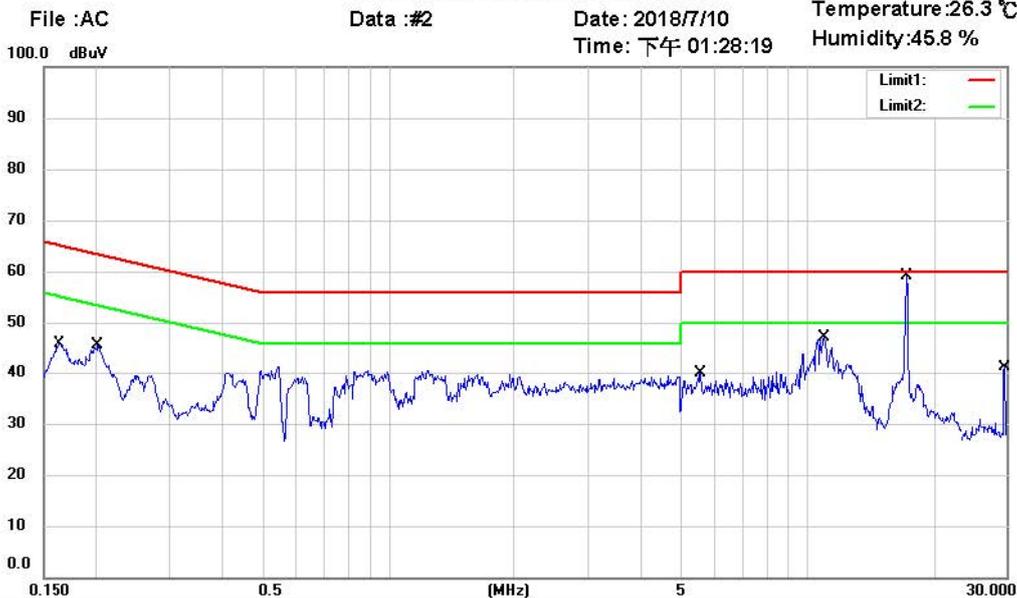
Data :#2

Date: 2018/7/10

Temperature:26.3 °C

Time: 下午 01:28:19

Humidity:45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21804-18010

Power : 120V a.c.

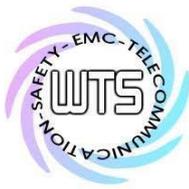
M/N:

Test Mode : Charge

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1635	31.31	QP	9.83	41.14	65.28	-24.14	
	0.1635	27.09	AVG	9.83	36.92	55.28	-18.36	
	0.2023	31.06	QP	9.81	40.87	63.52	-22.65	
	0.2023	24.49	AVG	9.81	34.30	53.52	-19.22	
	5.5375	22.30	QP	9.88	32.18	60.00	-27.82	
	5.5375	14.33	AVG	9.88	24.21	50.00	-25.79	
	10.9250	34.80	QP	10.00	44.80	60.00	-15.20	
	10.9250	26.57	AVG	10.00	36.57	50.00	-13.43	
	17.1625	42.88	QP	10.12	53.00	60.00	-7.00	
*	17.1625	38.96	AVG	10.12	49.08	50.00	-0.92	
	29.5500	29.55	QP	10.24	39.79	60.00	-20.21	
	29.5500	18.28	AVG	10.24	28.52	50.00	-21.48	

- Note:**
1. The formula of measured value as: Test Result = Reading + 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 = ±1.54 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.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-9

FCC ID: IPH-03598

Limits:

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

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



Registration number: W6M21804-18010-C-9
FCC ID: IPH-03598

Appendix

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

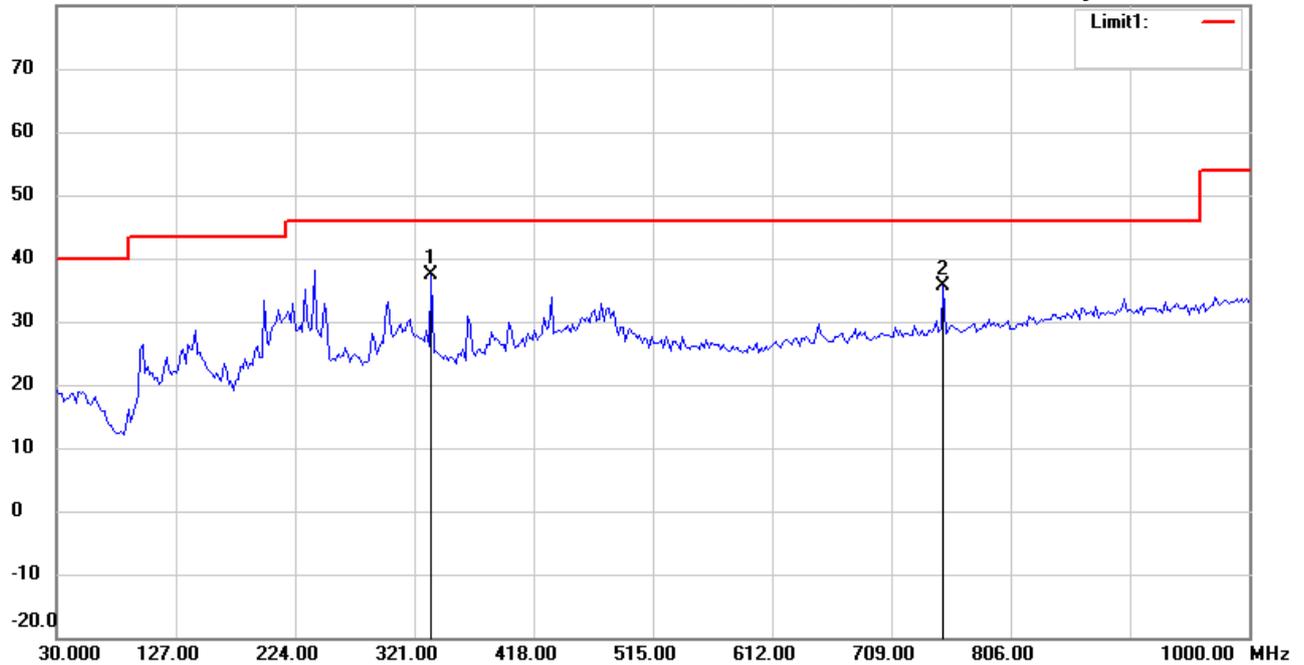
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:44:35 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	335.1904	42.29	peak	-4.87	37.42	46.00	100	270	-8.58	
	751.1824	33.90	peak	1.64	35.54	46.00	100	30	-10.46	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

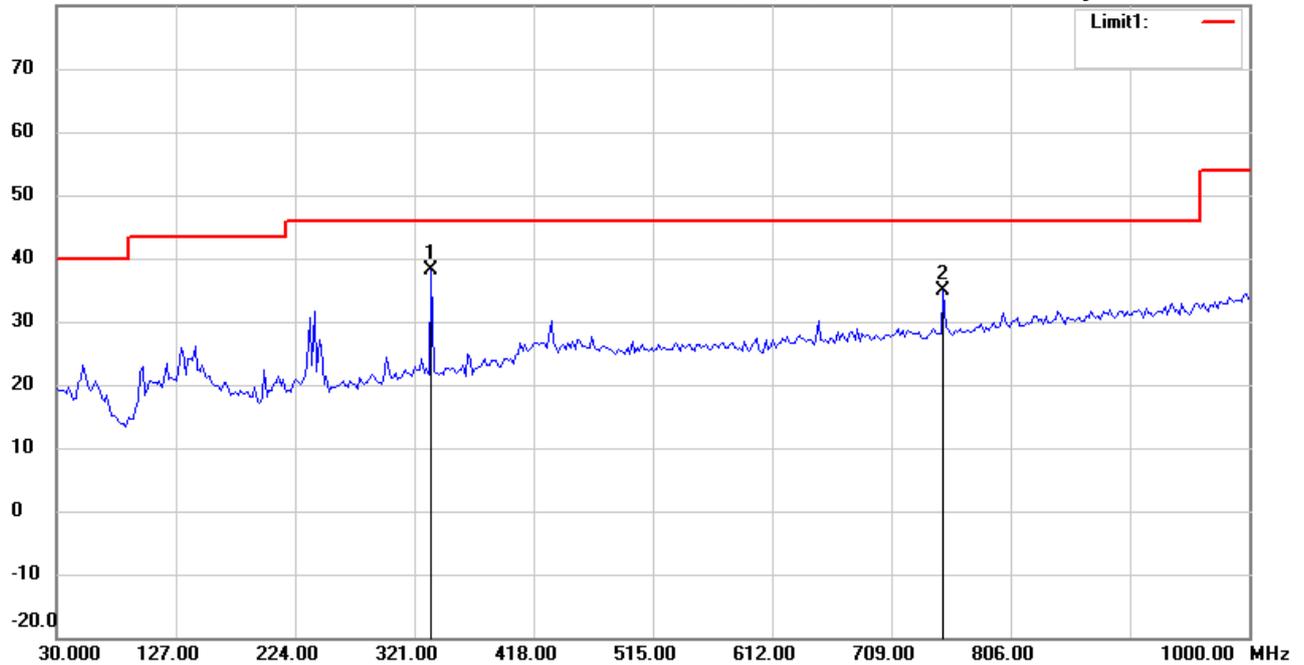
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:45:41 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: Vertical

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	335.1904	43.12	peak	-4.87	38.25	46.00	100	160	-7.75	
	751.1824	33.20	peak	1.64	34.84	46.00	100	90	-11.16	



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 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

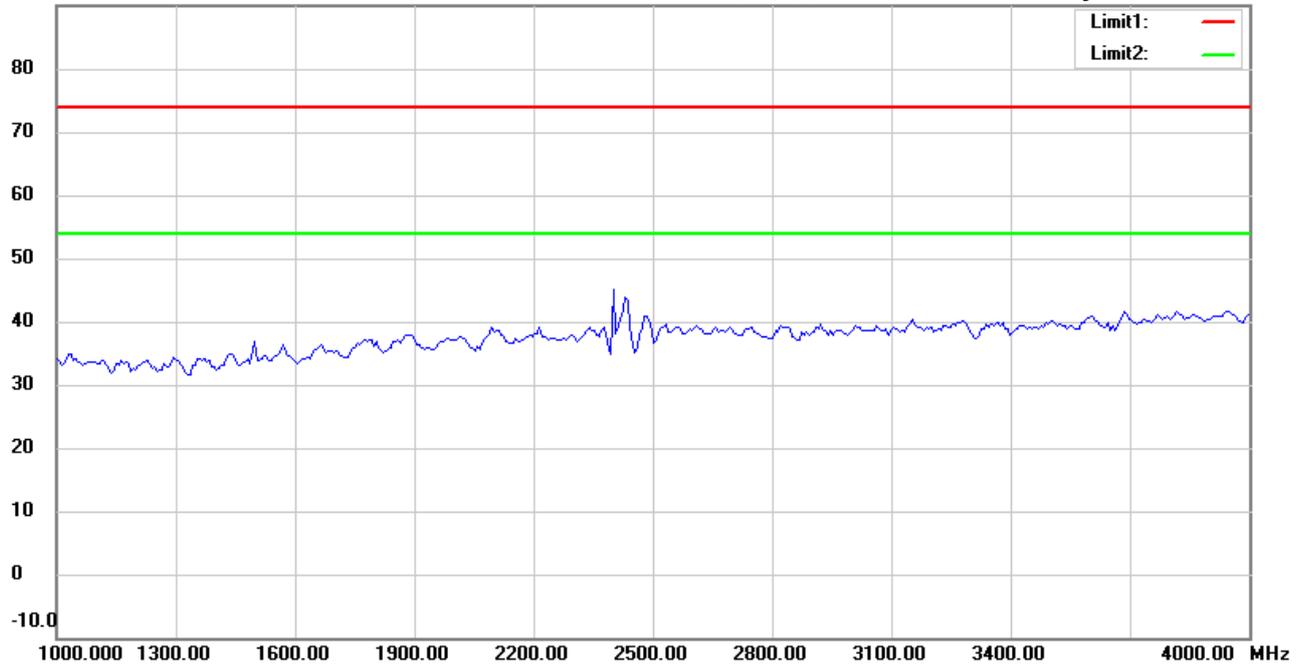
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:55:12 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

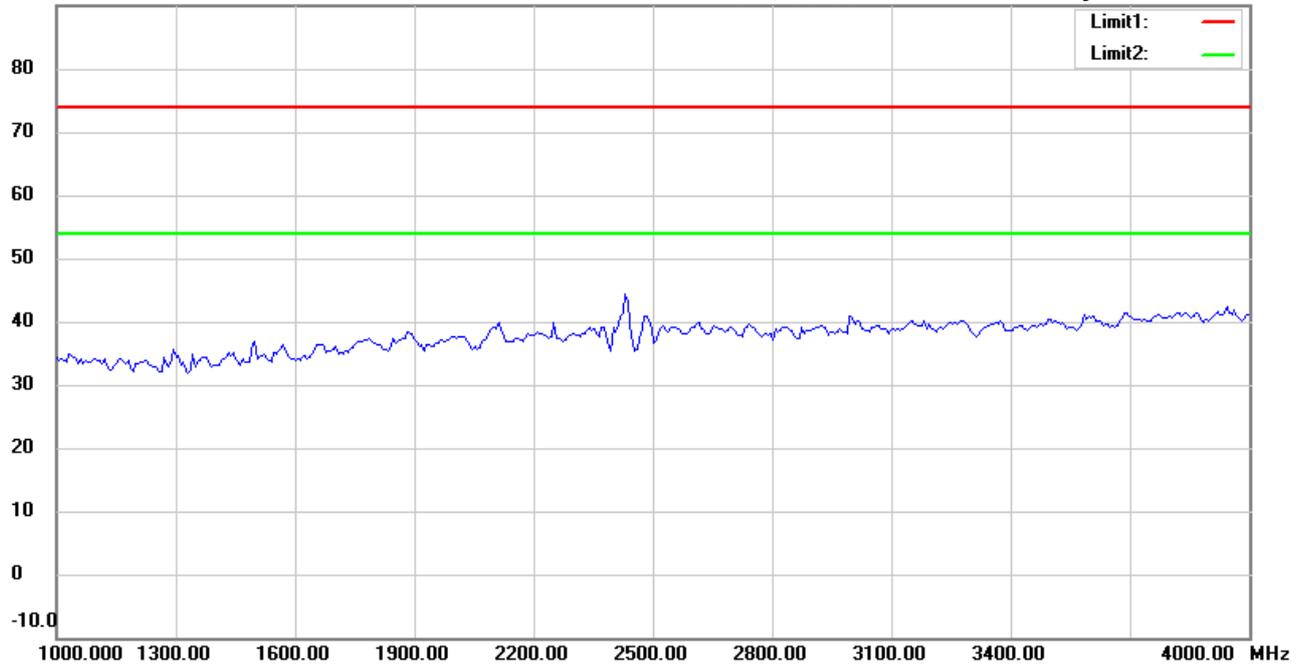
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:58:33 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

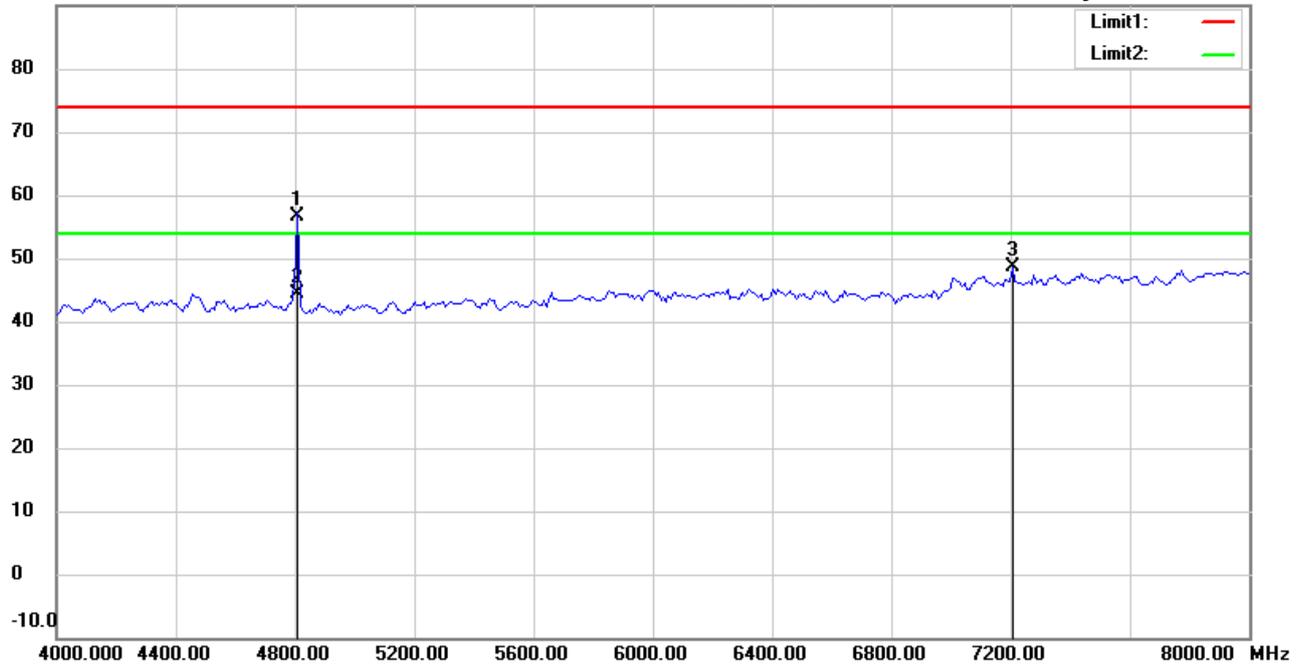
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:56:12 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4804.111	55.91	peak	0.75	56.66	74.00	150	28	-17.34	
*	4804.111	43.52	AVG	0.75	44.27	54.00	150	28	-9.73	
	7206.000	43.19	peak	5.38	48.57	74.00	150	115	-25.43	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

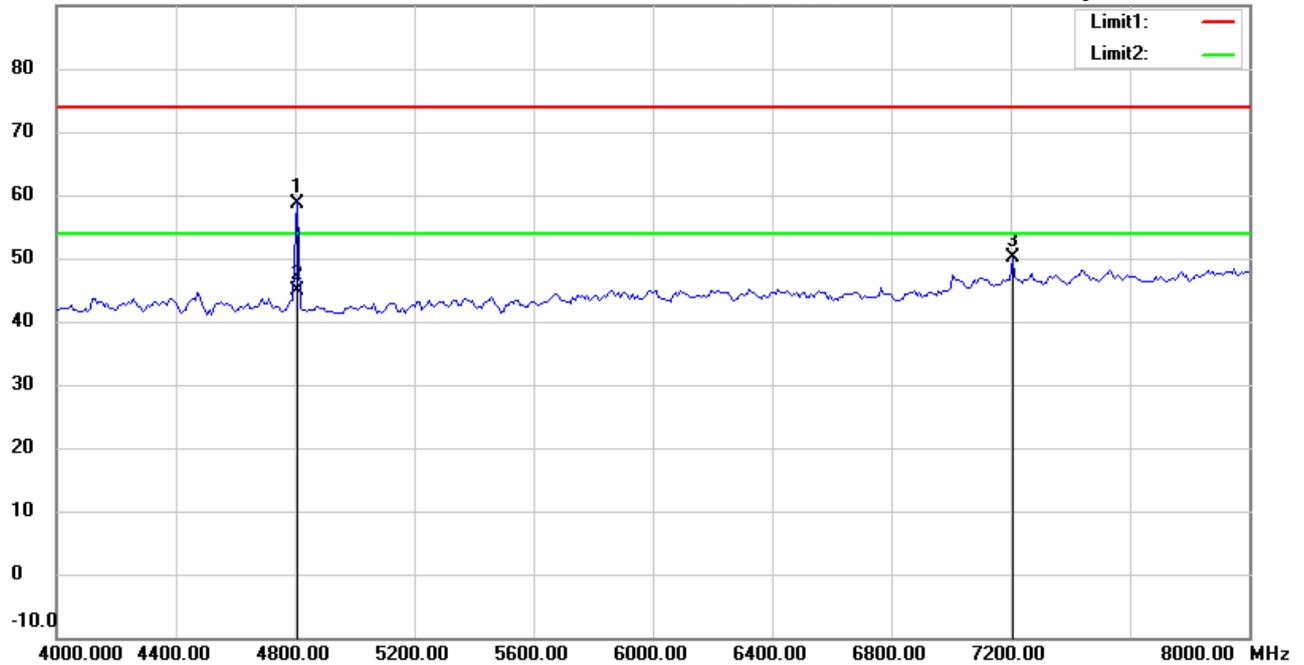
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:59:34 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4804.233	57.83	peak	0.75	58.58	74.00	150	19	-15.42	
*	4804.233	44.11	AVG	0.75	44.86	54.00	150	19	-9.14	
	7206.000	44.68	peak	5.38	50.06	74.00	150	115	-23.94	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

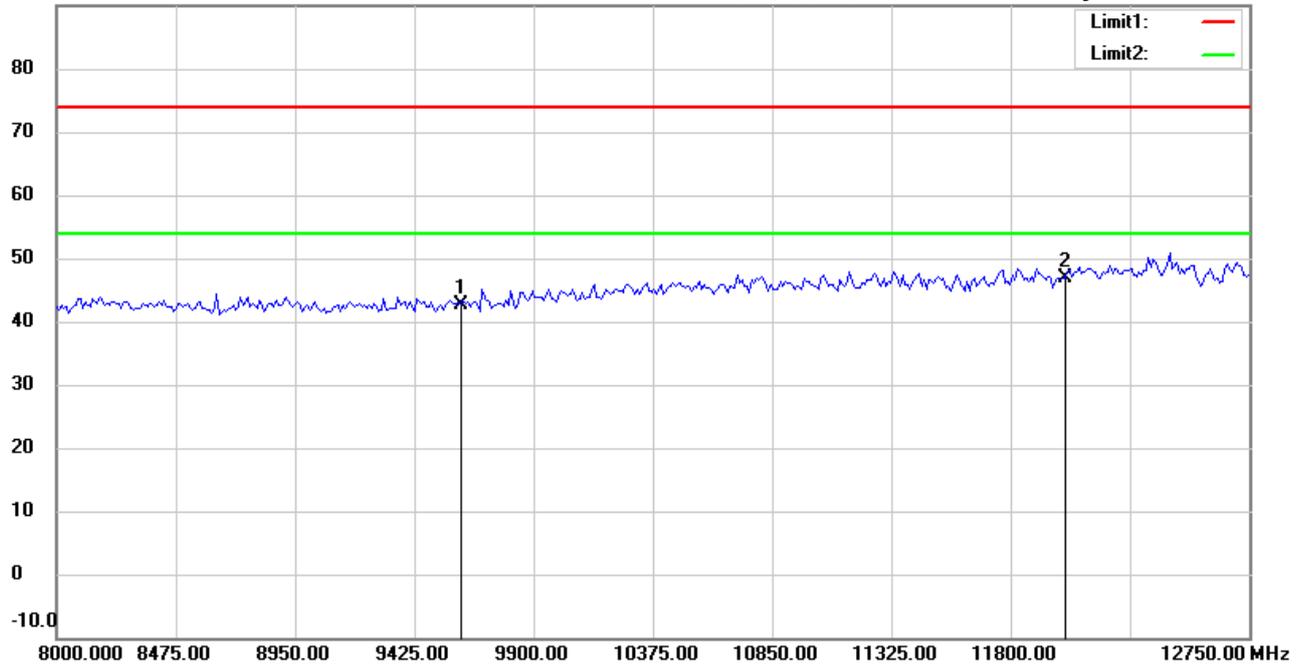
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:56:25 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9608.000	34.35	peak	8.25	42.60	74.00	150	165	-31.40	
*	12010.000	33.49	peak	13.50	46.99	74.00	150	290	-27.01	



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

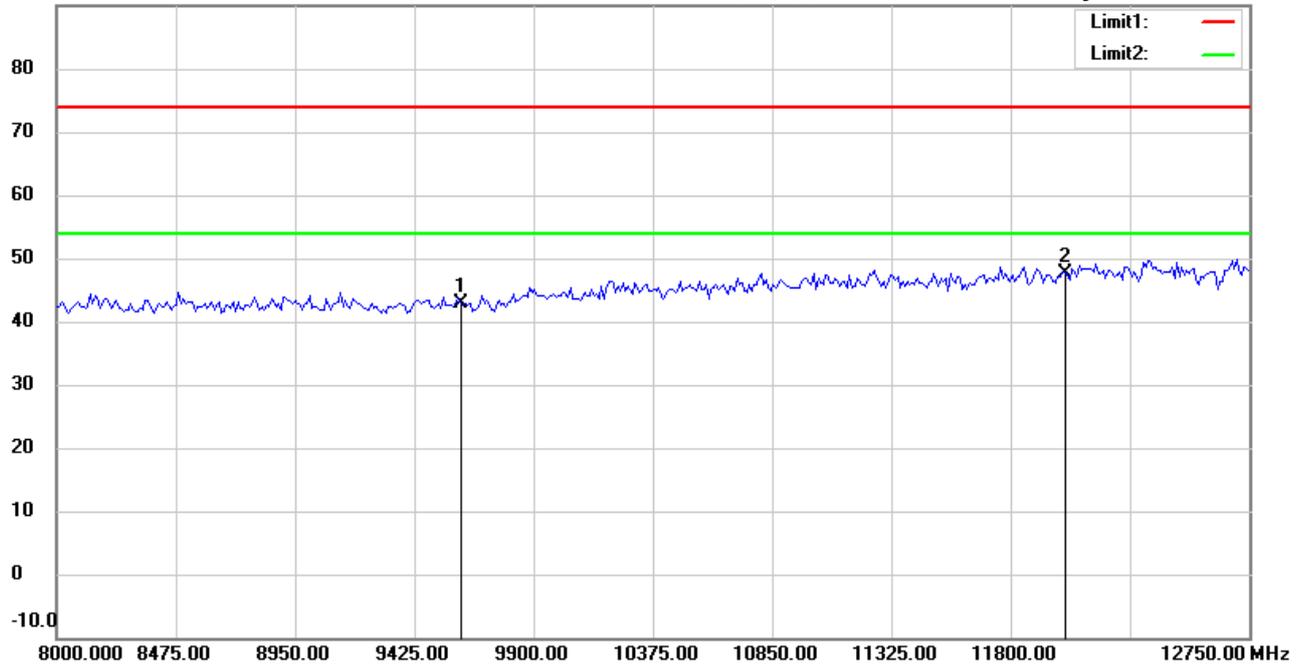
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:59:47 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9608.000	34.59	peak	8.25	42.84	74.00	150	195	-31.16	
*	12010.000	34.01	peak	13.50	47.51	74.00	150	130	-26.49	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

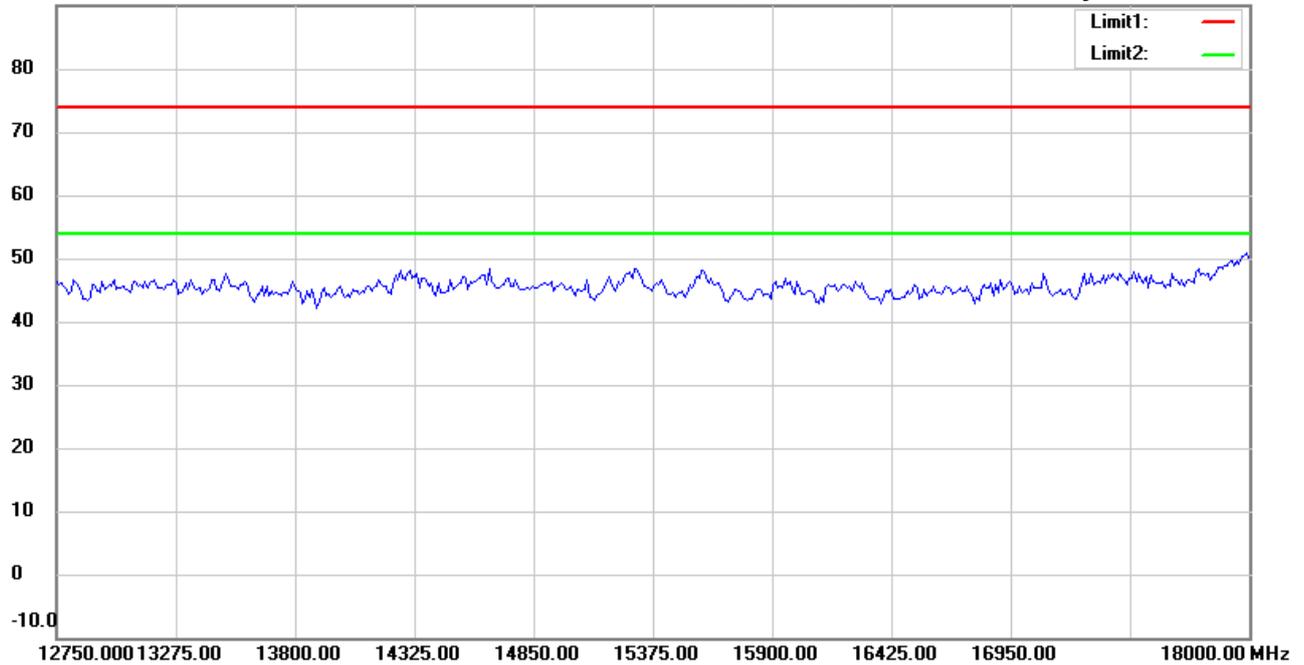
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:57:23 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

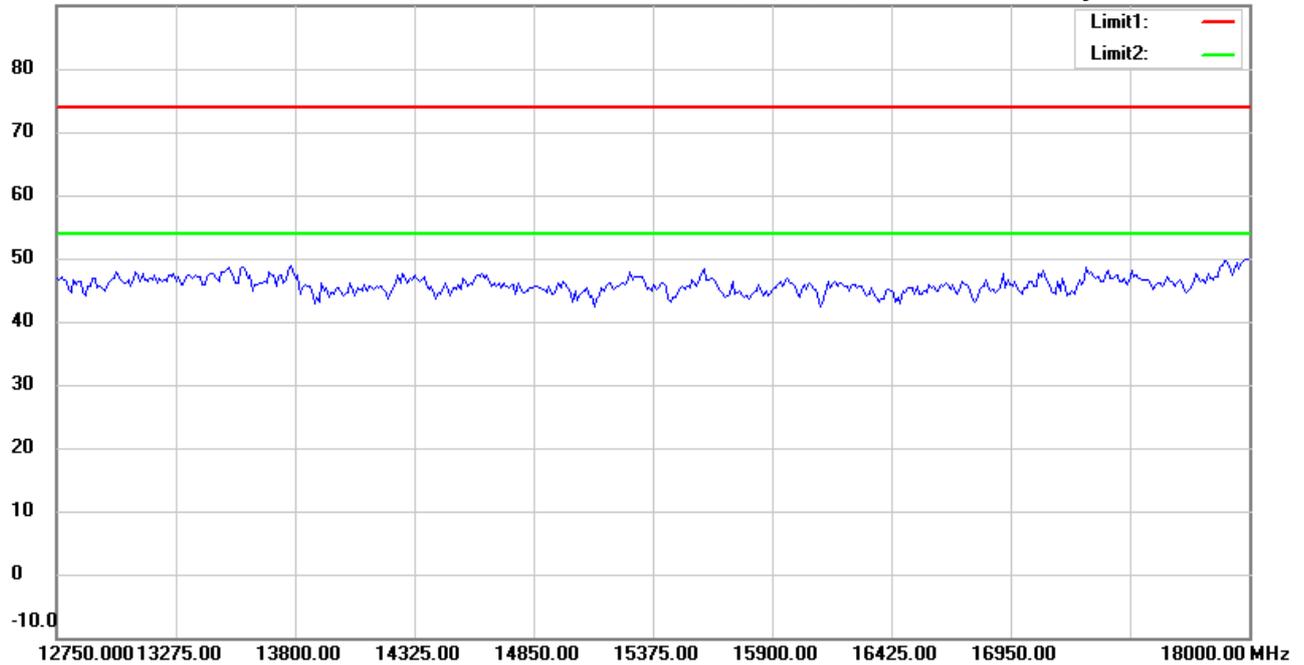
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:00:48 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

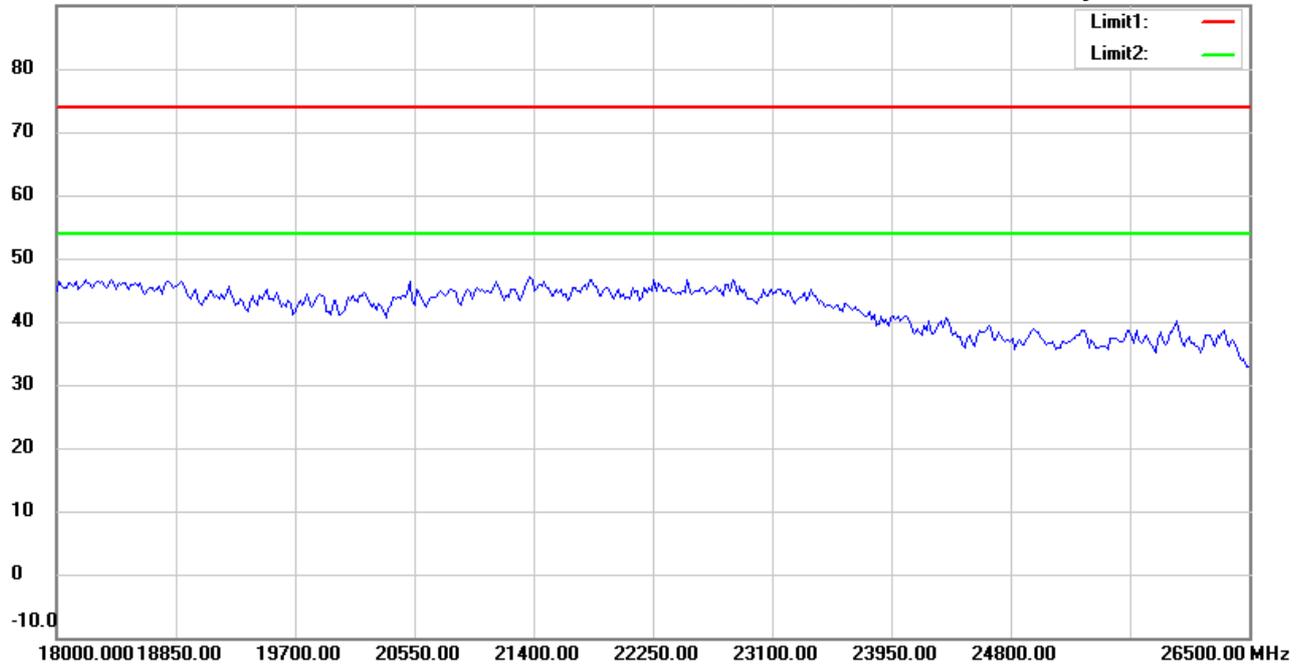
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 8:57:33 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

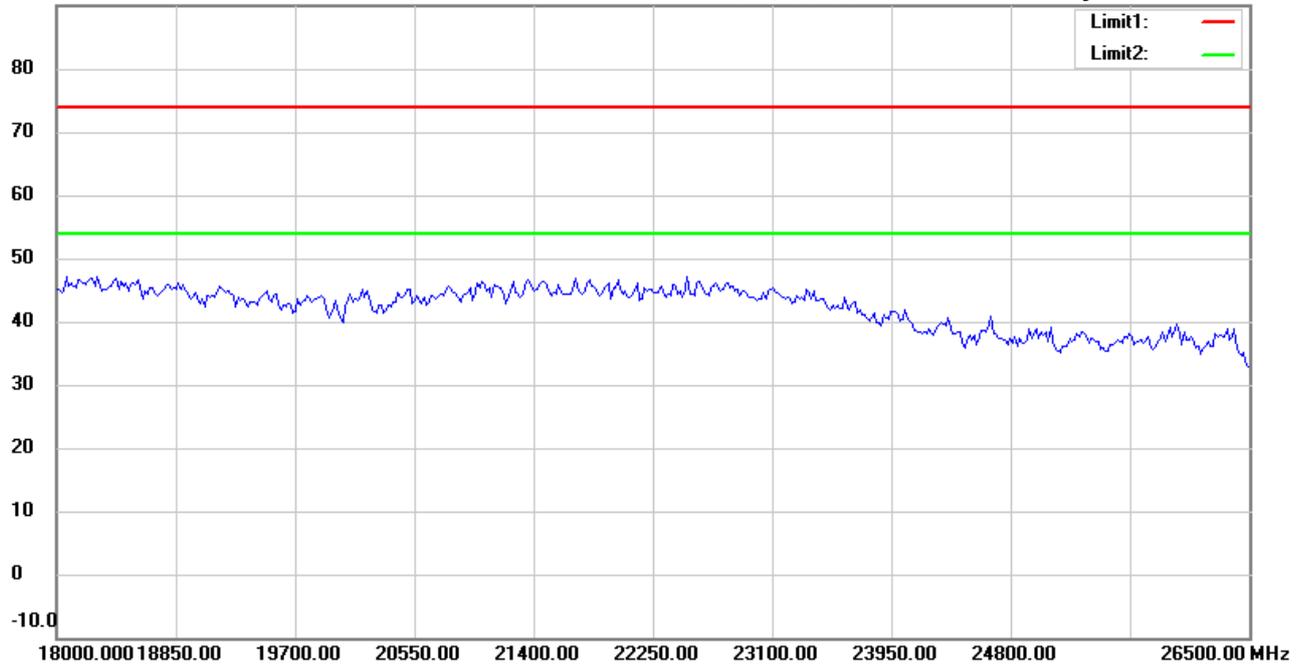
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:00:58 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2402MHz

Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

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



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

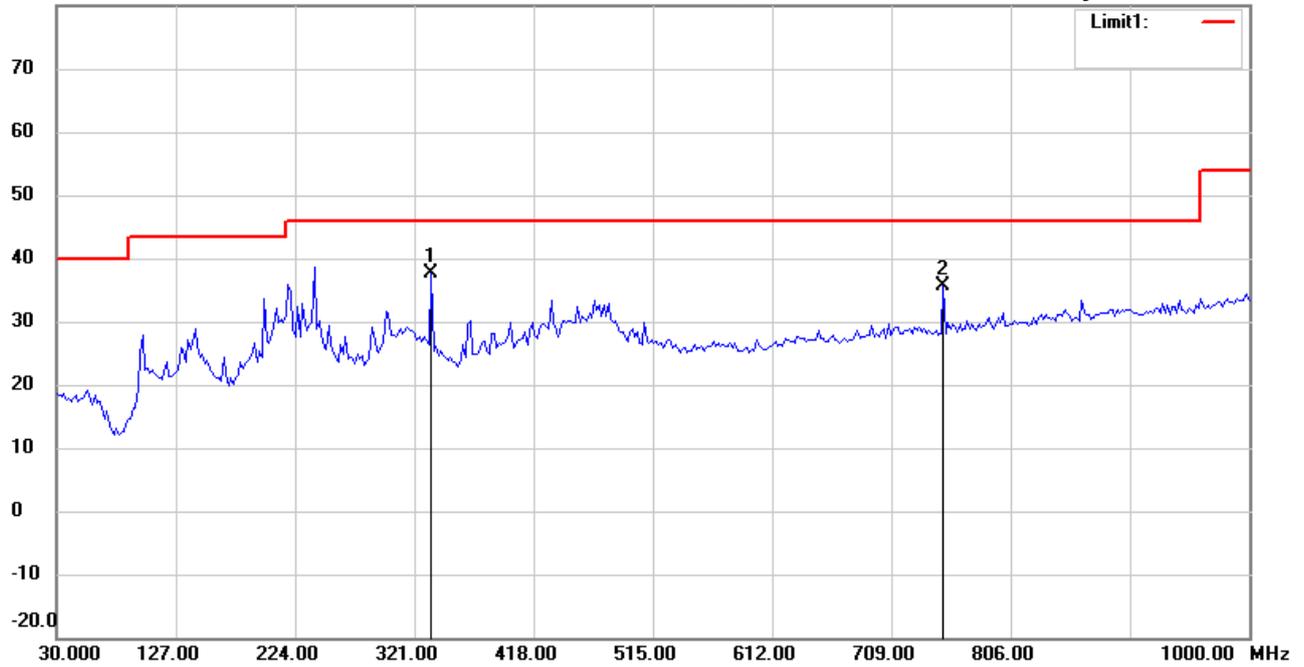
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:47:21 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	335.1904	42.50	peak	-4.87	37.63	46.00	100	60	-8.37	
	751.1824	33.92	peak	1.64	35.56	46.00	100	155	-10.44	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

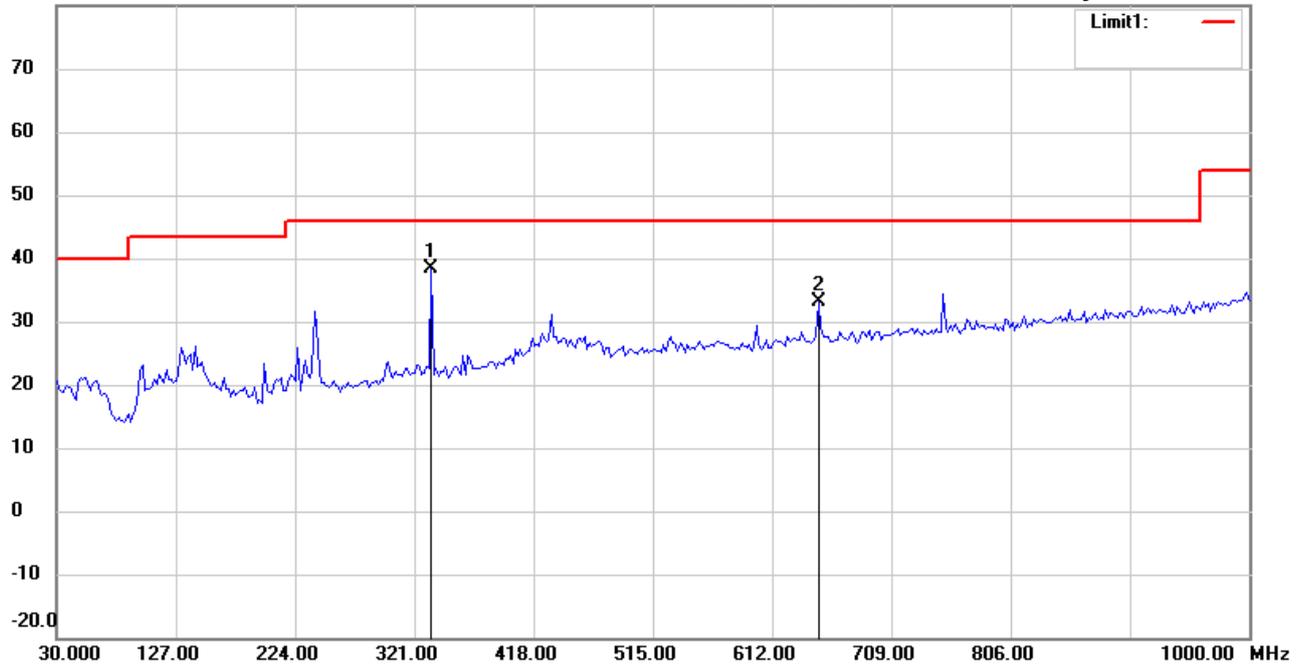
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:48:36 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: Vertical

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	335.1904	43.15	peak	-4.87	38.28	46.00	100	45	-7.72	
	650.1002	32.71	peak	0.35	33.06	46.00	100	230	-12.94	



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

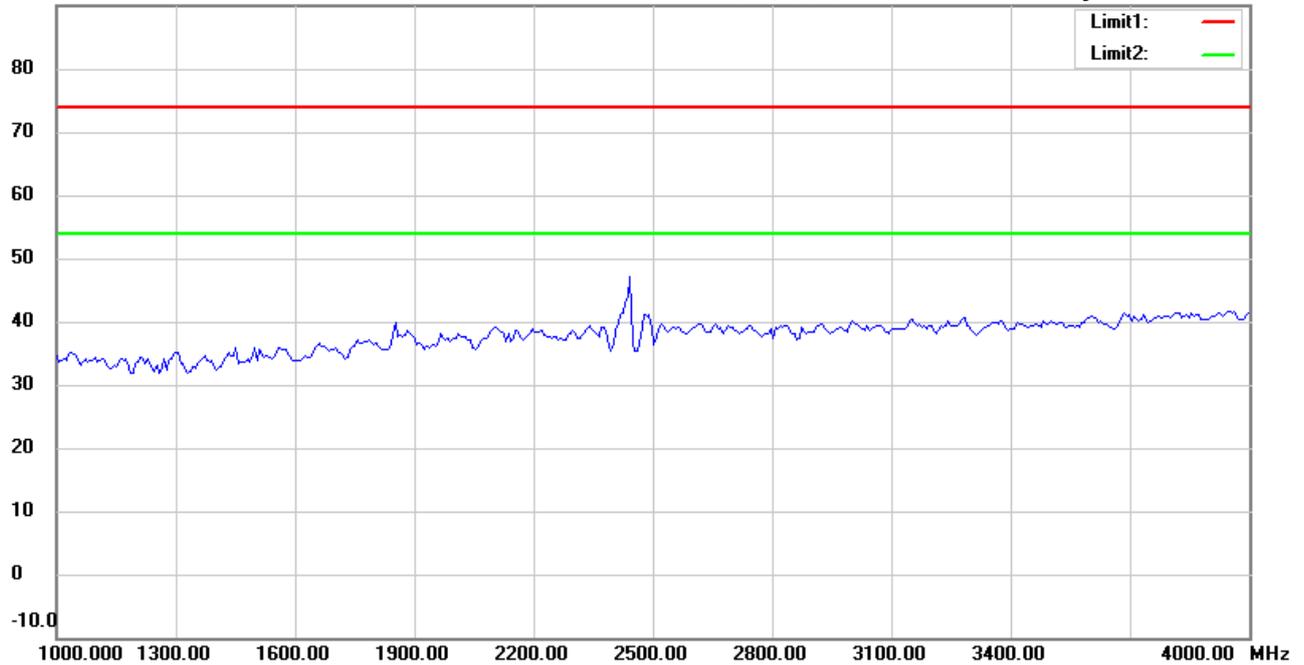
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:35:04 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

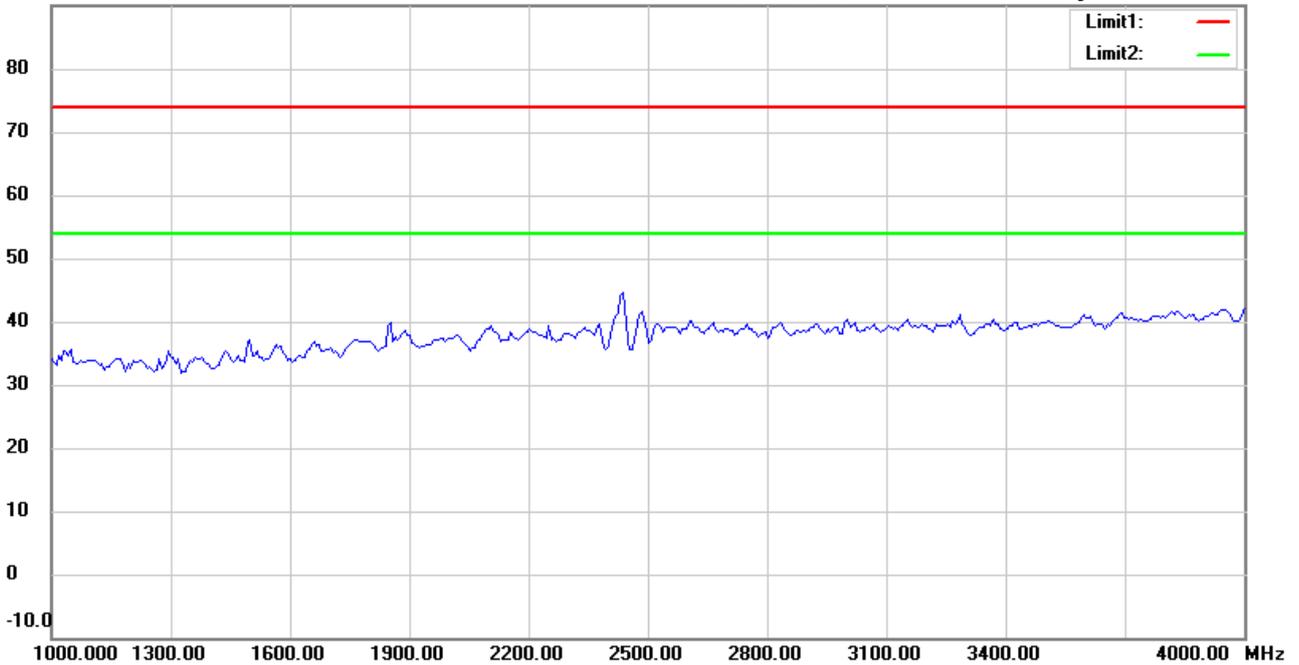
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:38:25 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

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

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

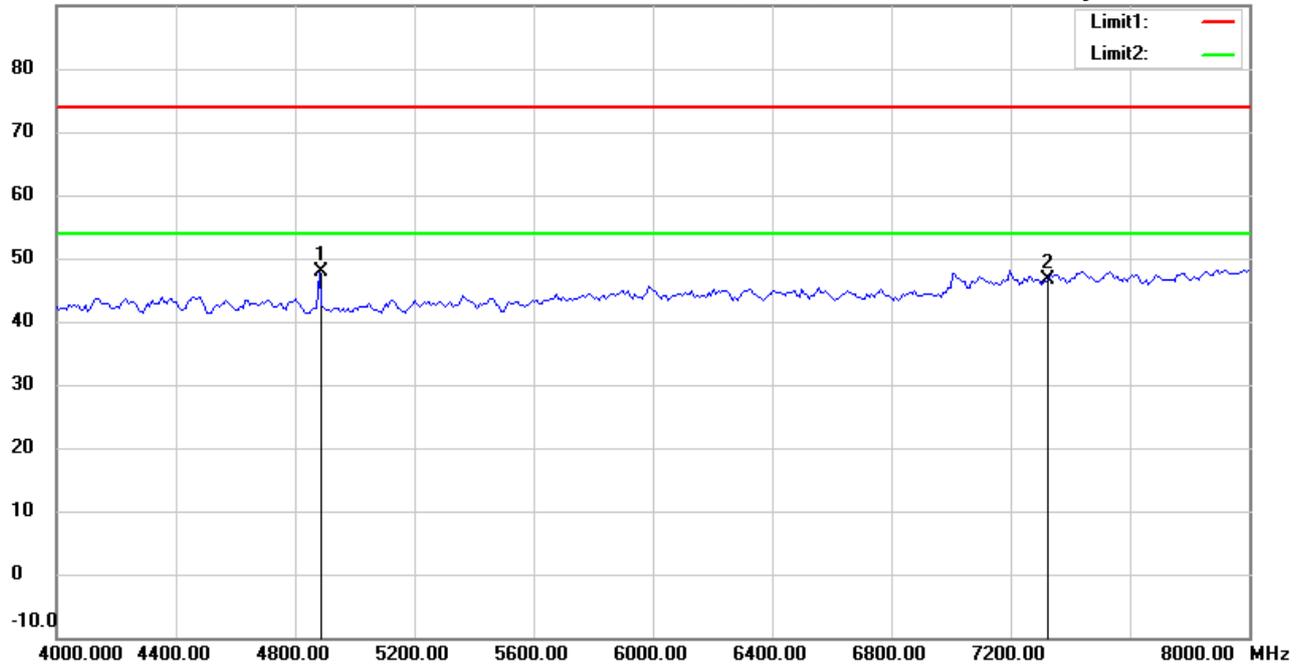
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:36:04 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4881.764	47.15	peak	0.68	47.83	74.00	150	165	-26.17	
	7323.000	41.04	peak	5.64	46.68	74.00	150	290	-27.32	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

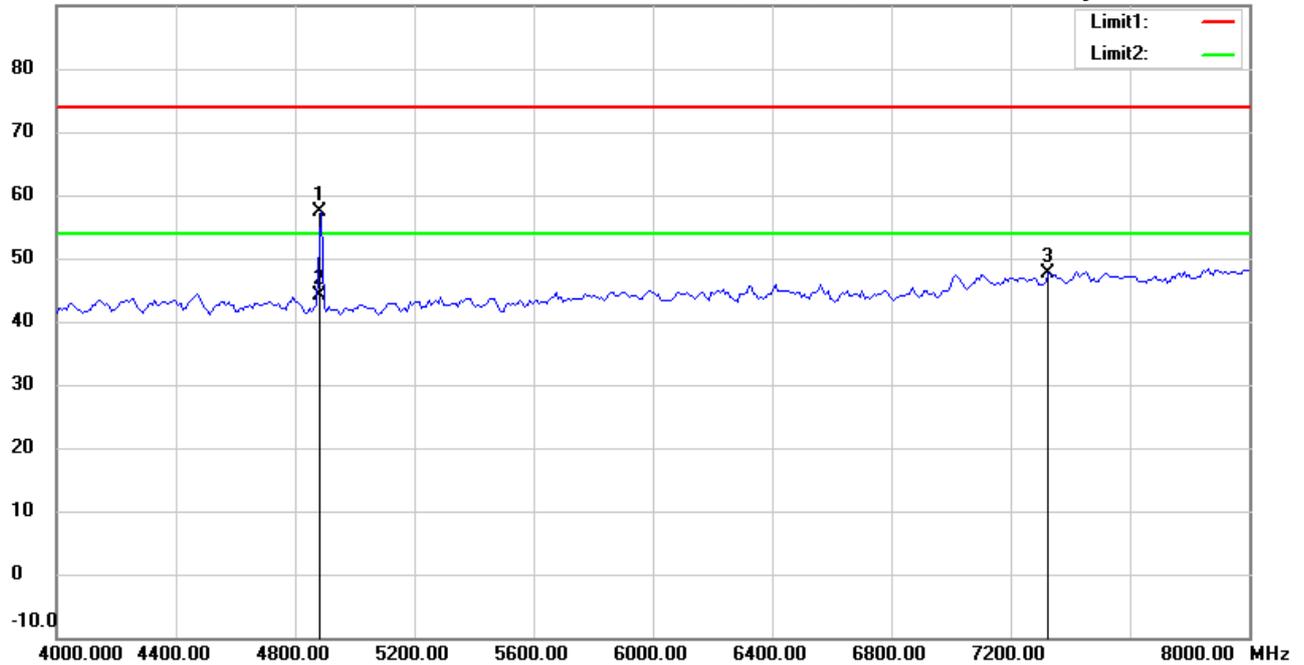
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:39:25 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2441MHz

Note :

Polarization: **Vertical**

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4881.719	56.74	peak	0.68	57.42	74.00	150	20	-16.58	
*	4881.719	43.51	AVG	0.68	44.19	54.00	150	20	-9.81	
	7323.000	41.96	peak	5.64	47.60	74.00	150	195	-26.40	



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

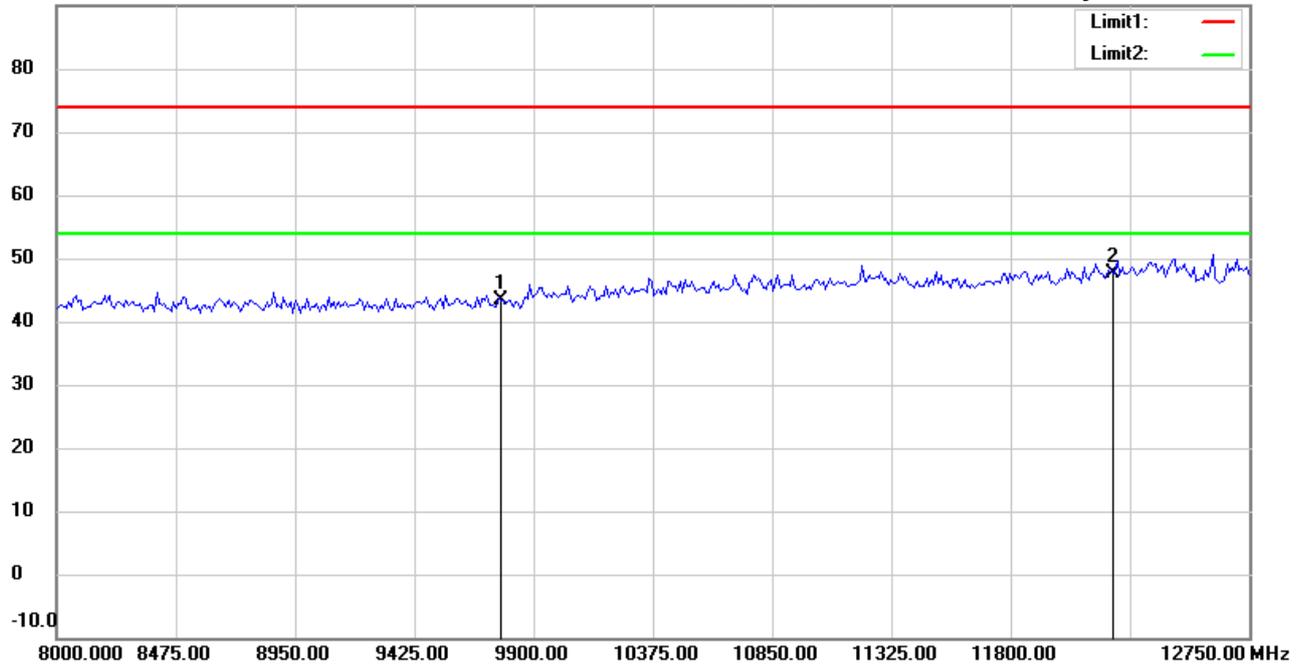
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:36:17 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9764.000	34.70	peak	8.66	43.36	74.00	150	215	-30.64	
*	12205.000	32.35	peak	15.20	47.55	74.00	150	280	-26.45	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

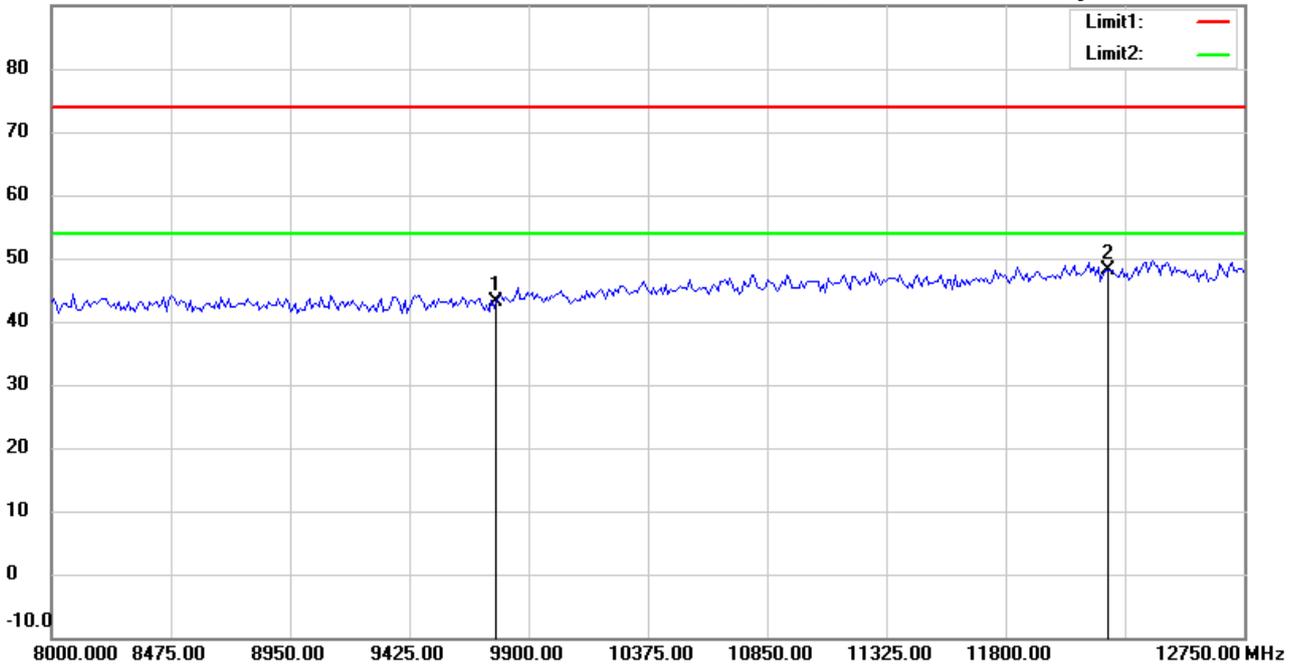
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:39:38 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9764.000	34.59	peak	8.66	43.25	74.00	150	130	-30.75	
*	12205.000	32.94	peak	15.20	48.14	74.00	150	100	-25.86	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

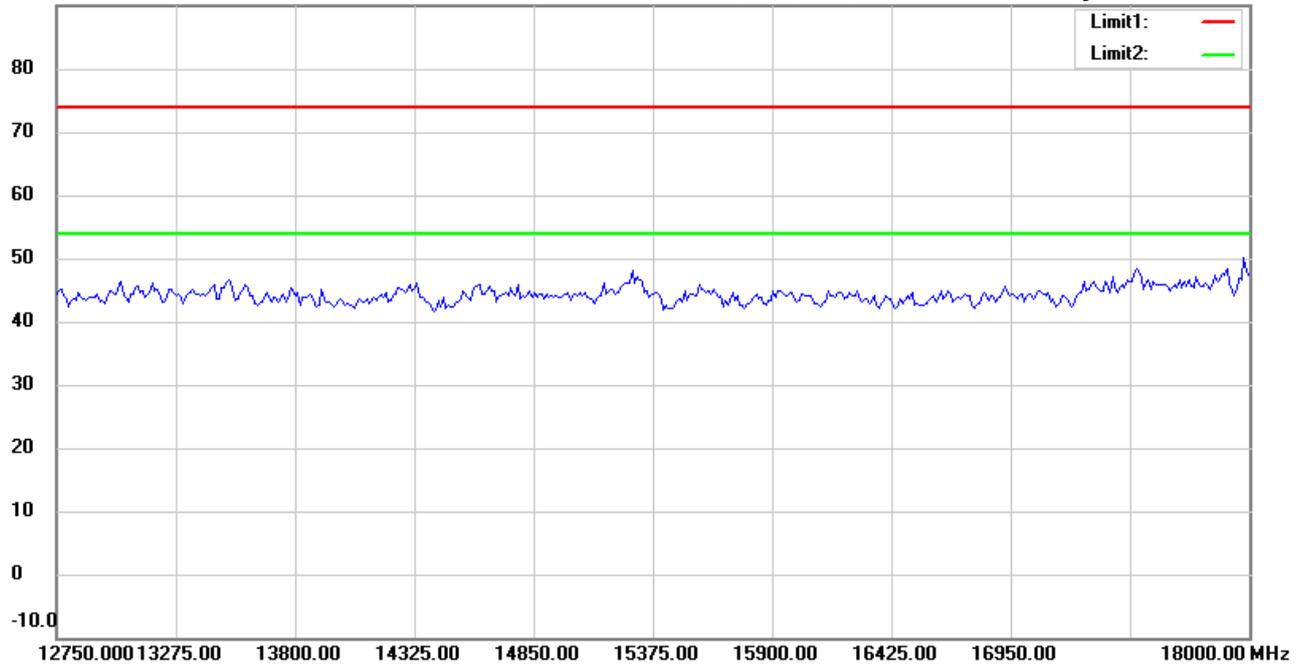
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:37:15 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#9

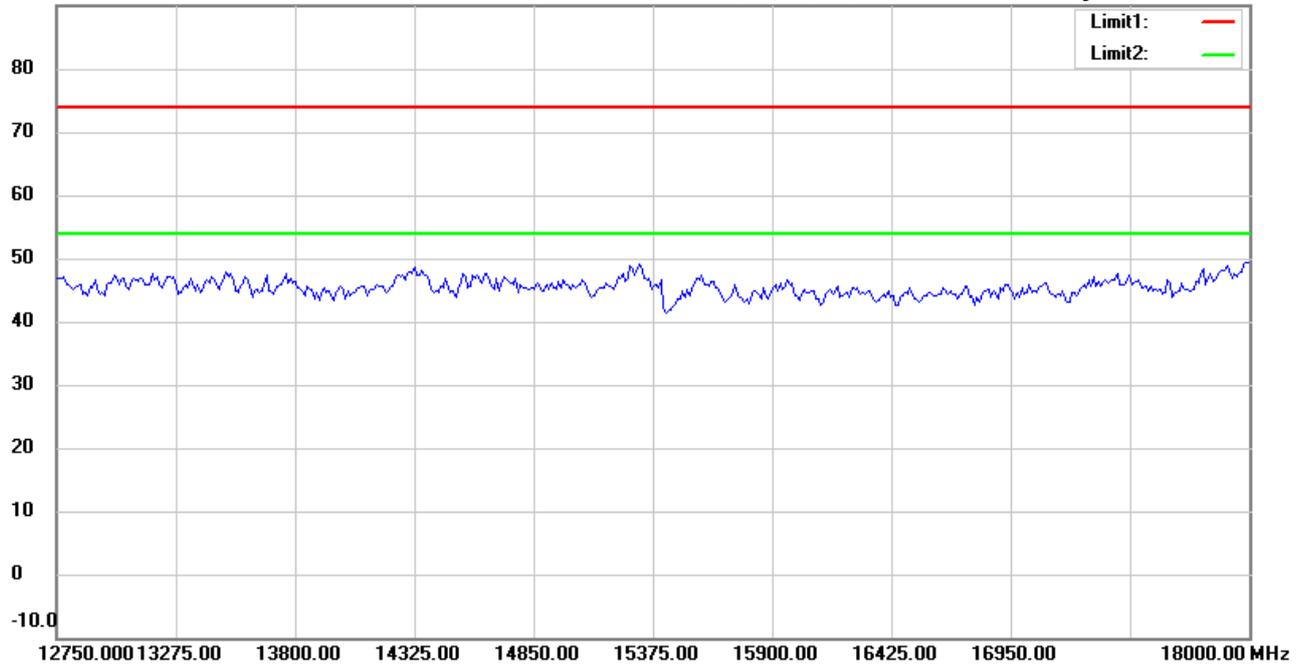
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:40:40 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

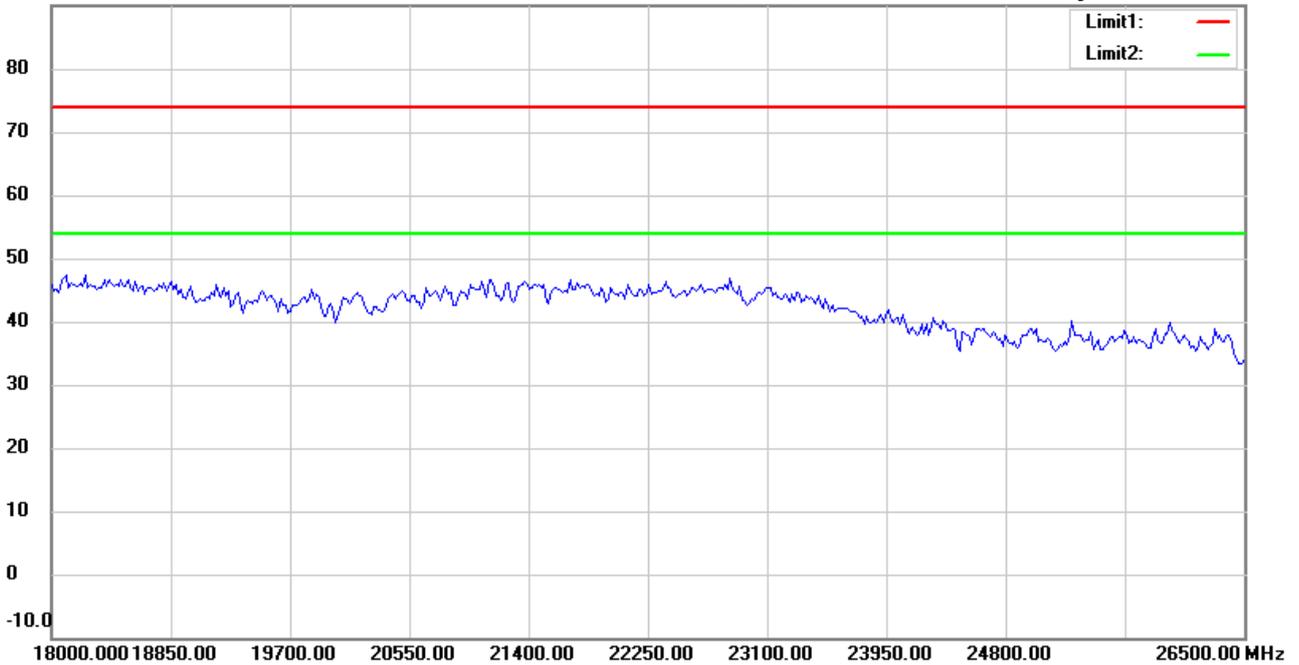
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:37:24 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

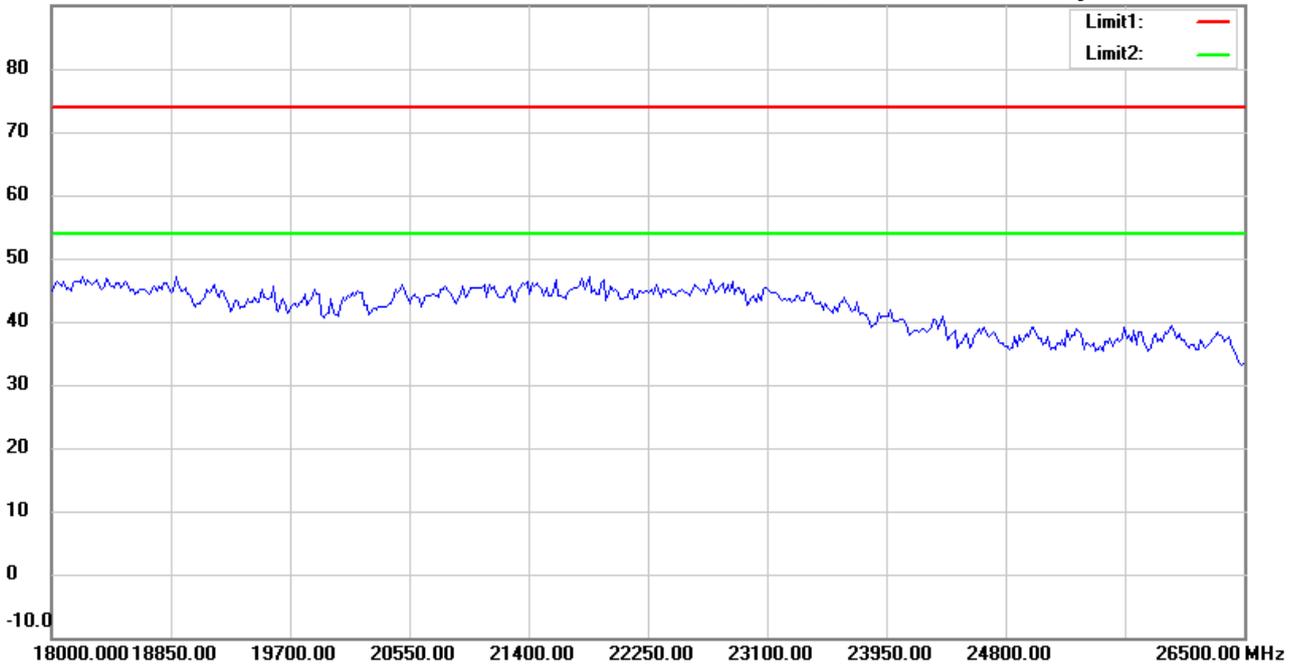
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 9:40:50 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2441MHz

Note :

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



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

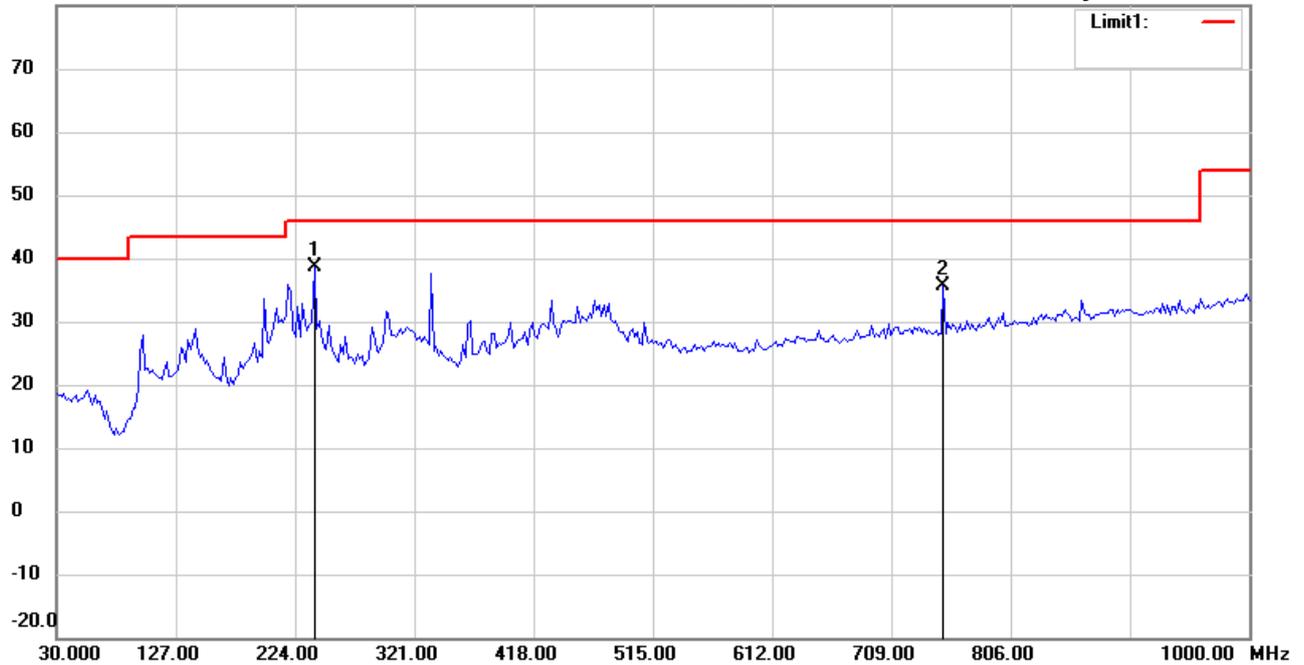
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:51:11 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 2479MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	239.9398	46.52	peak	-7.86	38.66	46.00	100	240	-7.34	
	751.1824	33.92	peak	1.64	35.56	46.00	100	100	-10.44	



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Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

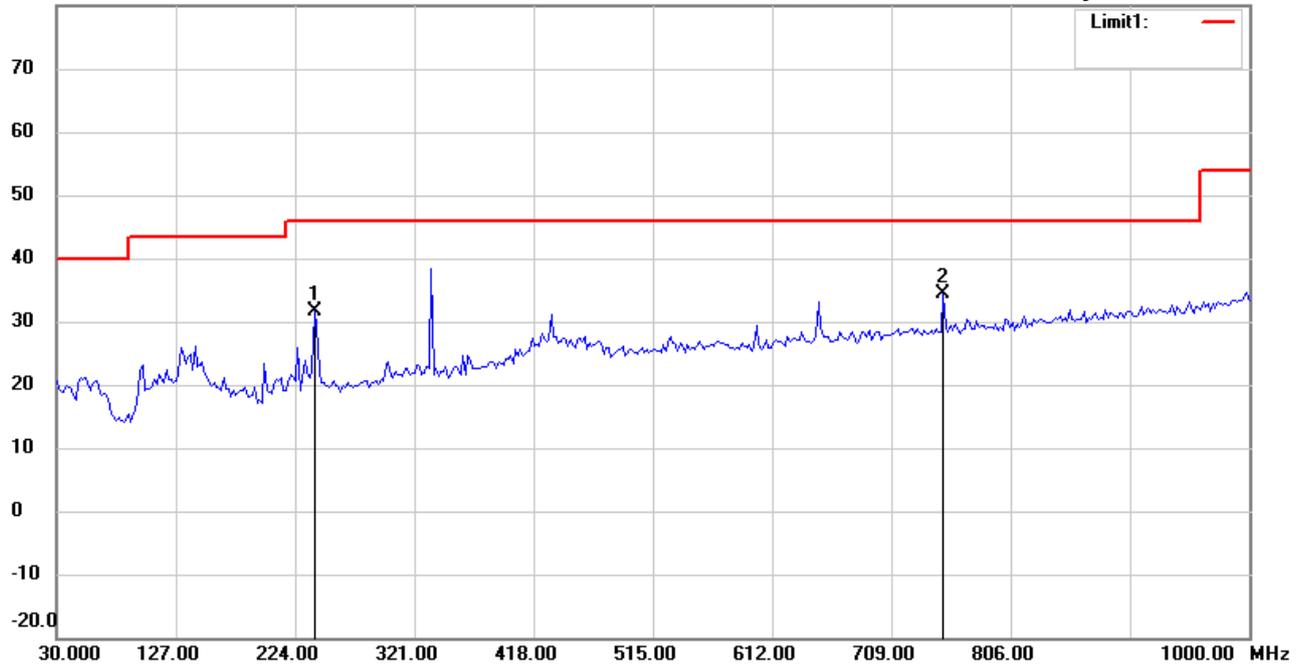
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:53:10 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 2479MHz

Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	239.9397	39.53	peak	-7.86	31.67	46.00	100	270	-14.33	
*	751.1824	32.77	peak	1.64	34.41	46.00	100	155	-11.59	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

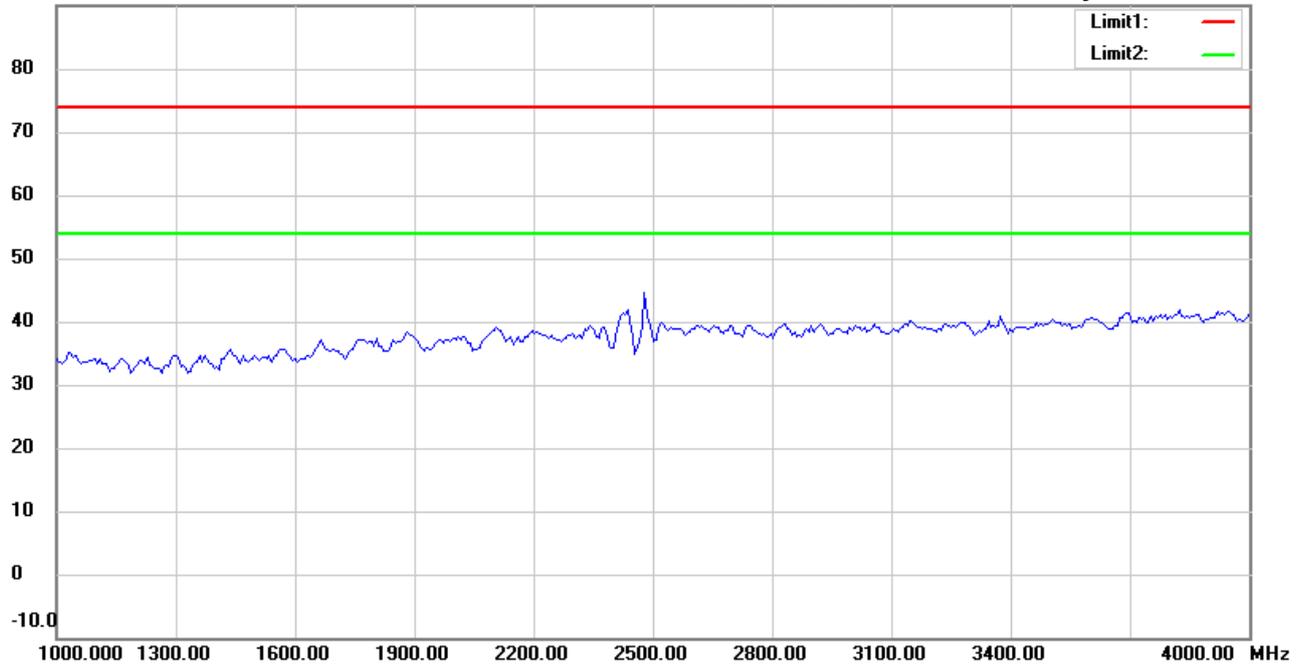
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:25:37 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2479MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

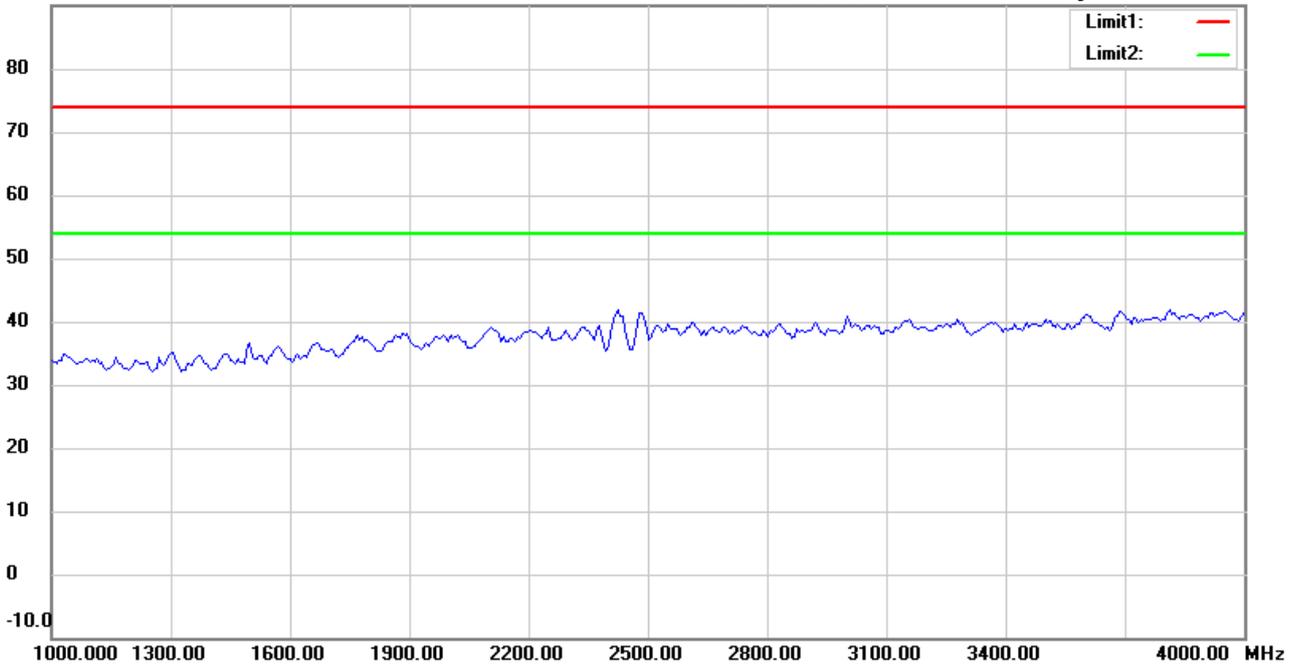
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:28:58 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2479MHz

Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

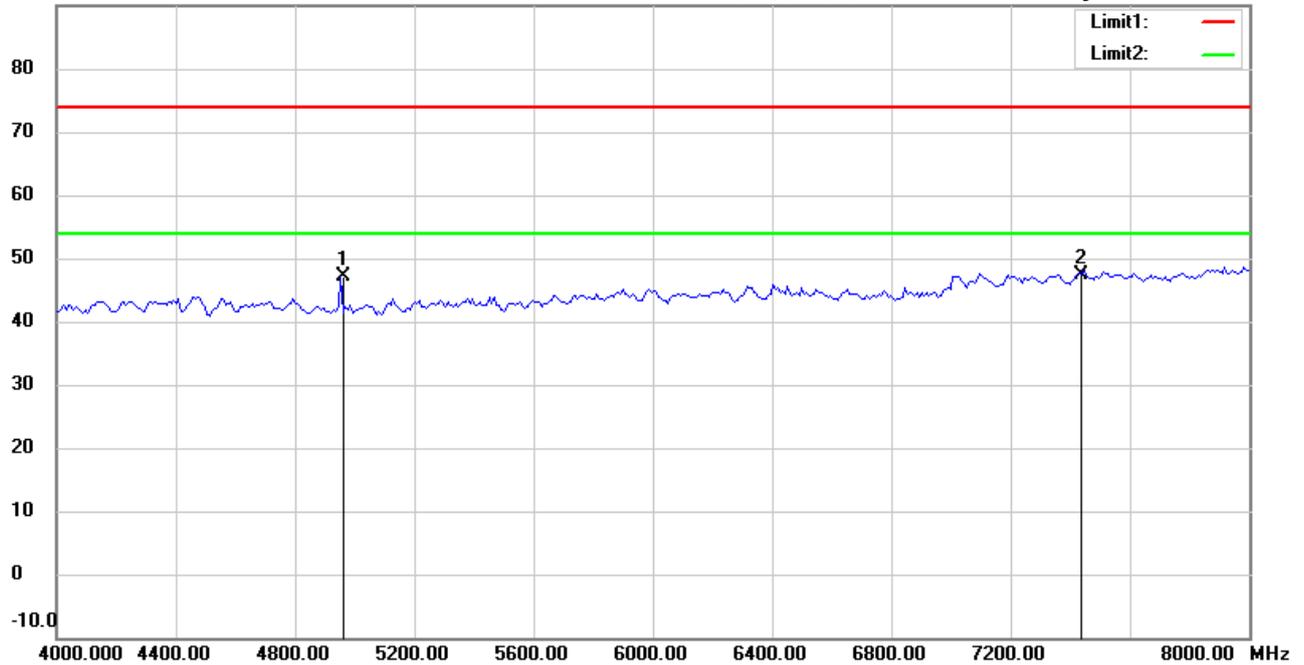
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:26:37 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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
	4953.908	46.47	peak	0.76	47.23	74.00	150	165	-26.77	
*	7437.000	41.49	peak	6.00	47.49	74.00	150	230	-26.51	

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



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#7

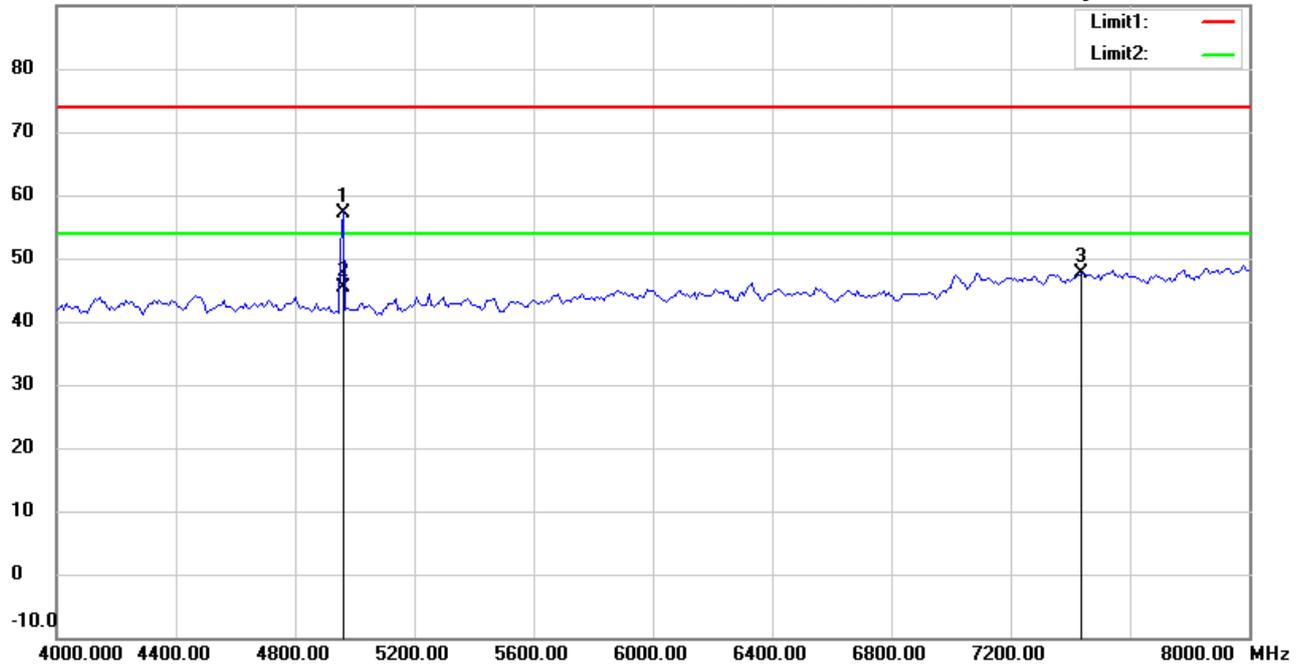
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:29:58 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 2479MHz

Note :

Polarization: **Vertical**

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4958.194	56.25	peak	0.77	57.02	74.00	150	25	-16.98	
*	4958.194	44.69	AVG	0.77	45.46	54.00	150	25	-8.54	
	7437.000	41.63	peak	6.00	47.63	74.00	150	270	-26.37	



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

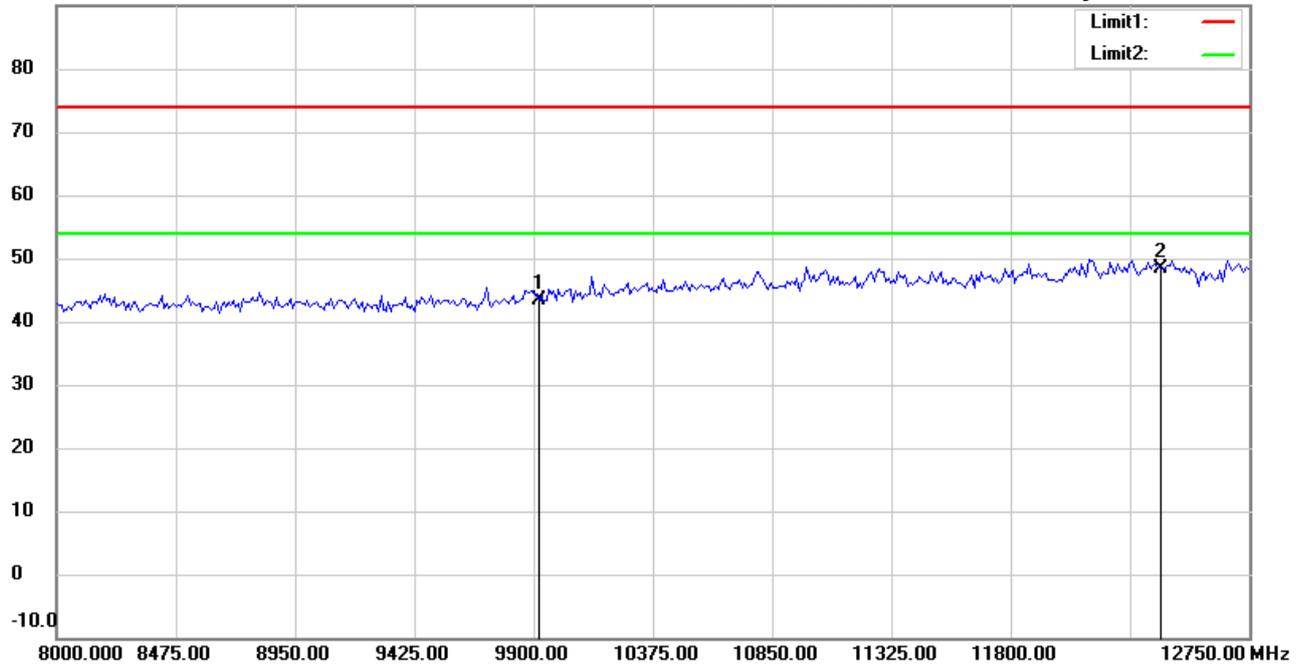
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:26:50 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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
	9916.000	33.64	peak	9.71	43.35	74.00	150	215	-30.65	
*	12395.000	32.66	peak	15.70	48.36	74.00	150	220	-25.64	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#8

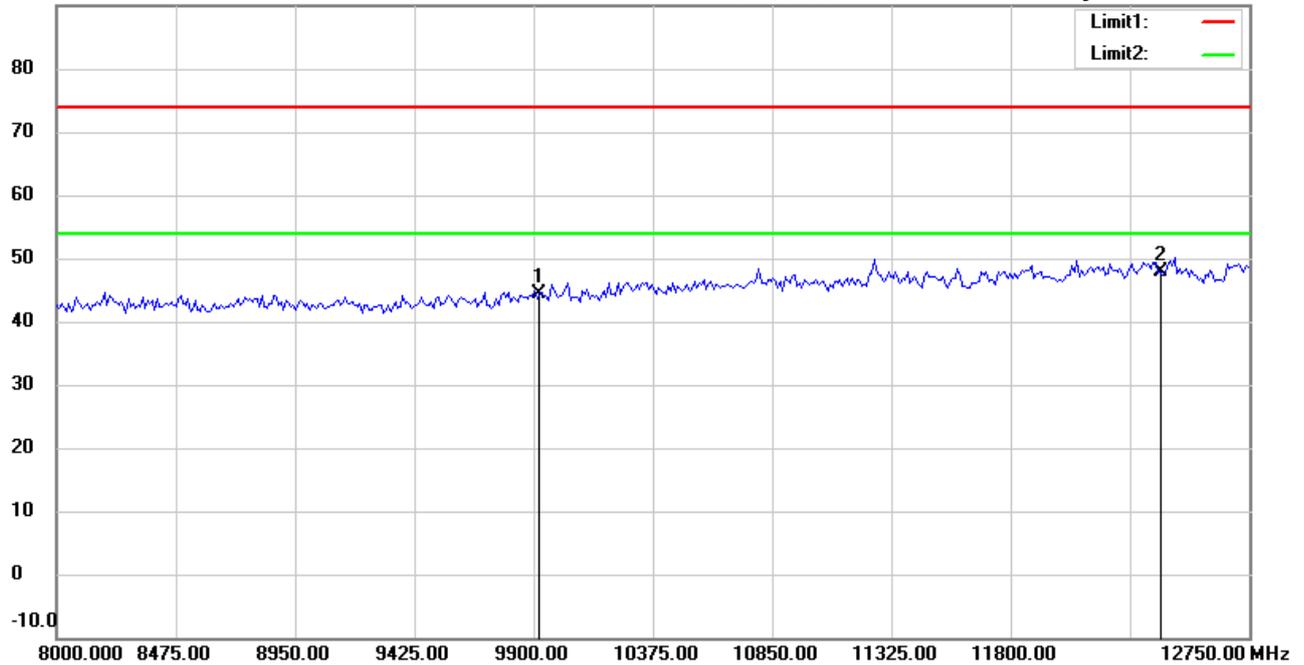
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:30:11 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: **Vertical**

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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
	9916.000	34.70	peak	9.71	44.41	74.00	150	265	-29.59	
*	12395.000	32.07	peak	15.70	47.77	74.00	150	130	-26.23	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

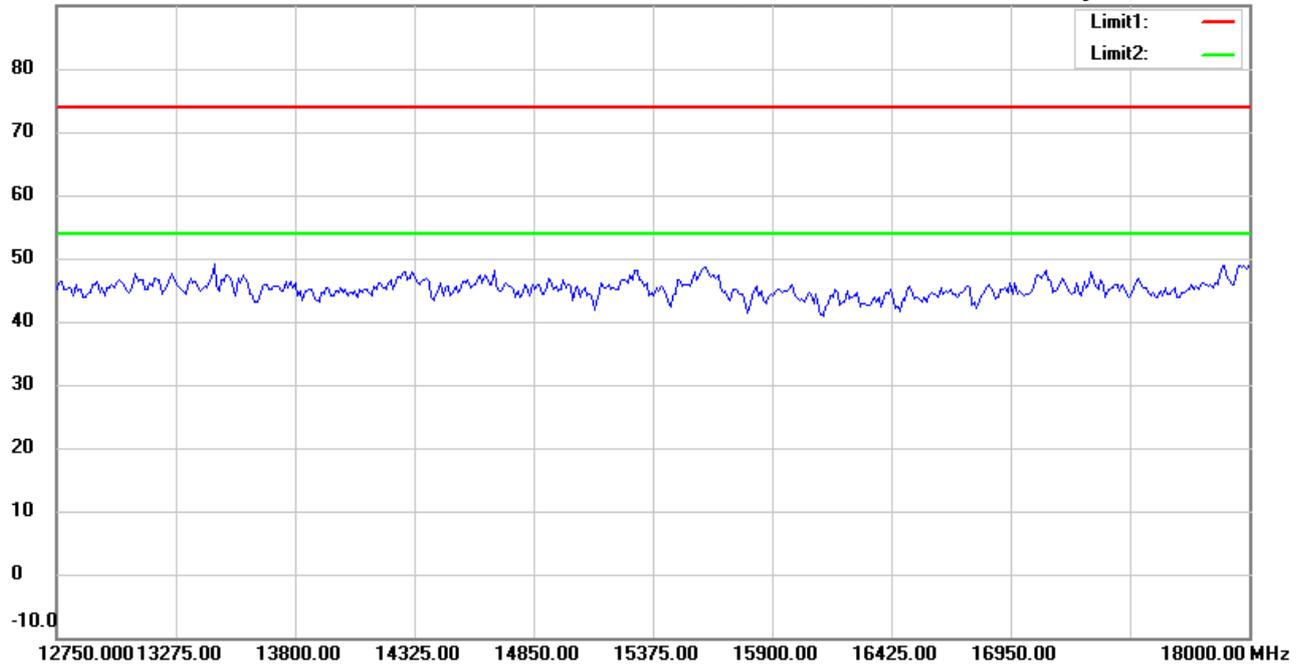
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:27:48 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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: Vincent

File :3

Data :#9

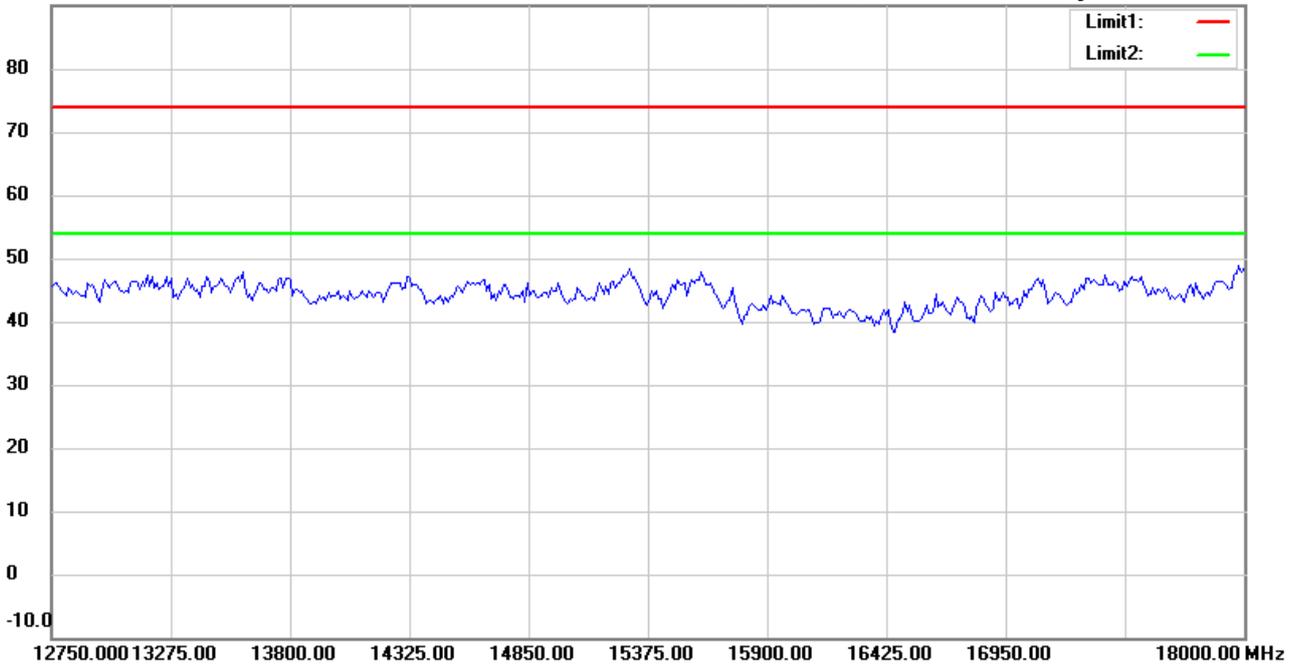
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:31:13 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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: Vincent

File :3

Data :#5

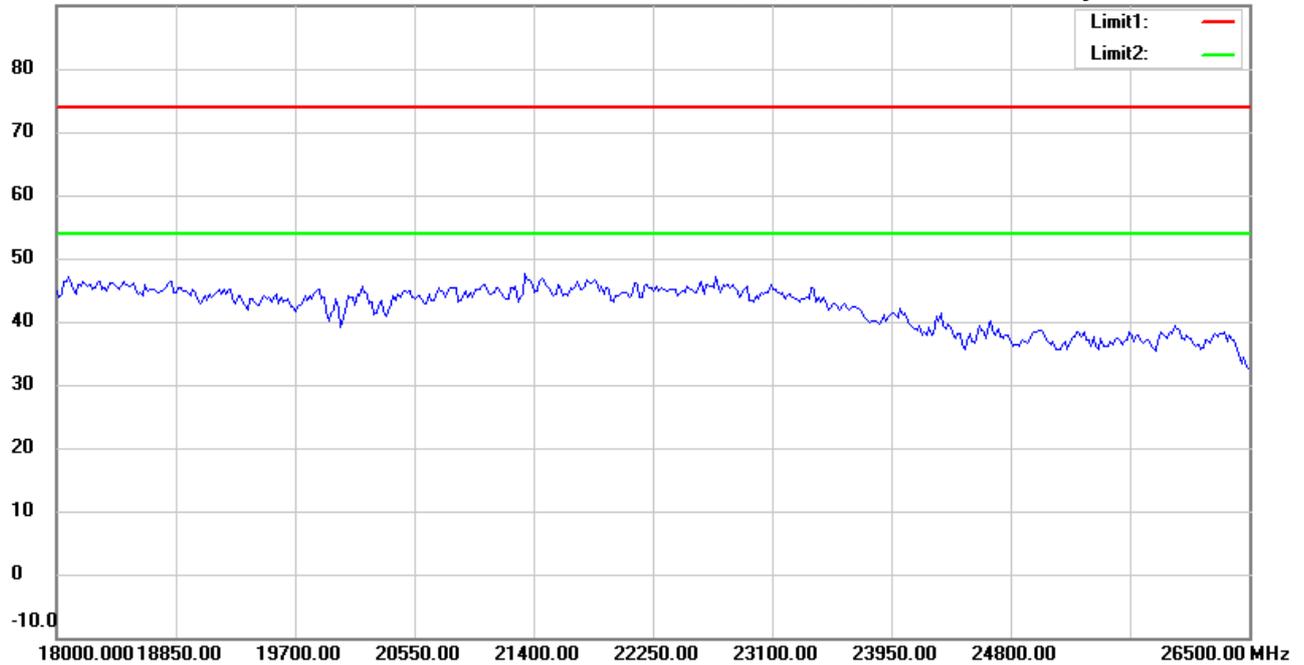
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:27:58 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

Note :

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

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#10

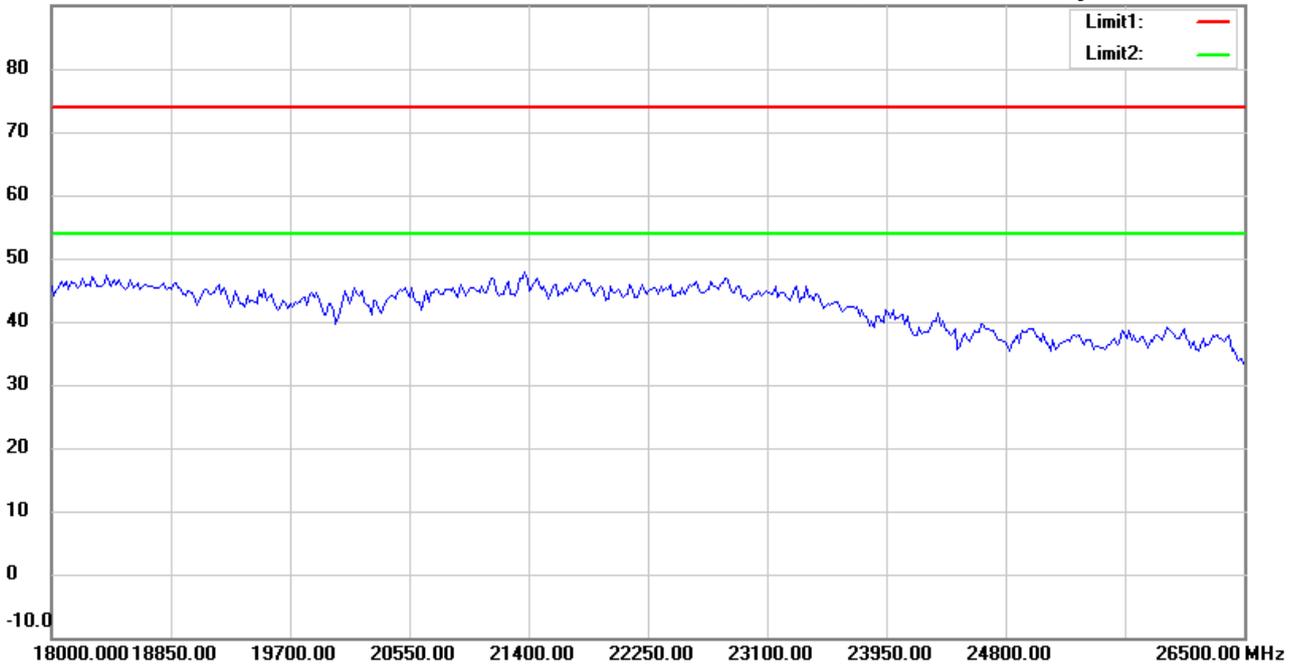
Date: 7/4/2018

Temperature:28.5 °C

90.0 dBuV/m

Time: 10:31:23 PM

Humidity:58.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2479MHz

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