

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

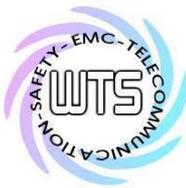
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21804-18010-C-7

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M21804-18010-C-7
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.

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

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

Tester:

July 10, 2018

Mark Cheng

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

July 10, 2018

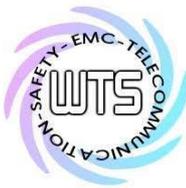
Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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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: ./.

1.3 Details of approval holder

Name: Garmin International Inc.

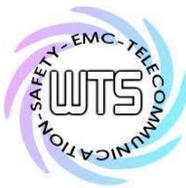
Street: 1200 East 151st Street

Town: Olathe, KS 66062

Country: United States

Telephone: 1-913-397-8200

Fax: 1-913-397-8282



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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: 902 – 928 MHz
Frequency (ch 0): 902.52 MHz
Frequency (ch 26): 915 MHz
Frequency (ch 52): 927.48 MHz

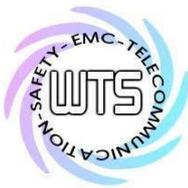
Transmitter

Unom

Power (ch 0): Conducted: 29.13 dBm
Power (ch 39): Conducted: 29.61 dBm
Power (ch 52): Conducted: 29.30 dBm
Power supply: Charge 5 VDC
Battery 3.7 VDC, 2300 mAh, 8.6 Wh
Operation modes: Duplex
Modulation Type: FHSS
Antenna Type: Monopole antenna
Antenna gain: 0 dBi
Host device: none

Classification:

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



Worldwide Testing Services(Taiwan) Co., Ltd.

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Manufacturer: (if applicable)

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 § 15.247 (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 3 were ascertained in the course of the tests performed.

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply Charge 5 VDC
Battery 3.7 VDC, 2300 mAh, 8.6 Wh

Extreme conditions parameters: test voltage : -- extreme
min : -- V
max : -- V

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 Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.01 dB
Estimation Result of Uncertainty of Power Density Measurement Power density	Expanded Uncertainty : 1.73 dB
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.98 dBc
Estimation Result of Uncertainty of Frequency Separation Measurement Hopping channel separation	Expanded Uncertainty : 552.91 Hz
Estimation Result of Uncertainty of Duty Cycle Measurement Dwell time	Expanded Uncertainty : 0.099 ms



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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-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	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



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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	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	Thermohygrometer	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

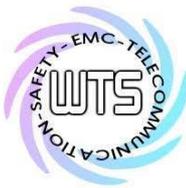


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ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29
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. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

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

Example:

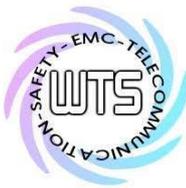
Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

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



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When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

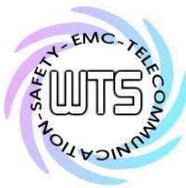
Average = Peak + Duty Factor

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

$T = 100\text{ms}$ when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

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



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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent radiated Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.247	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrier Frequency Separation	15.247(a) (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Hopping Frequencies	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20 dB Bandwidth	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band-edge Compliance of RF Emission	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The follows is intended to leave blank.



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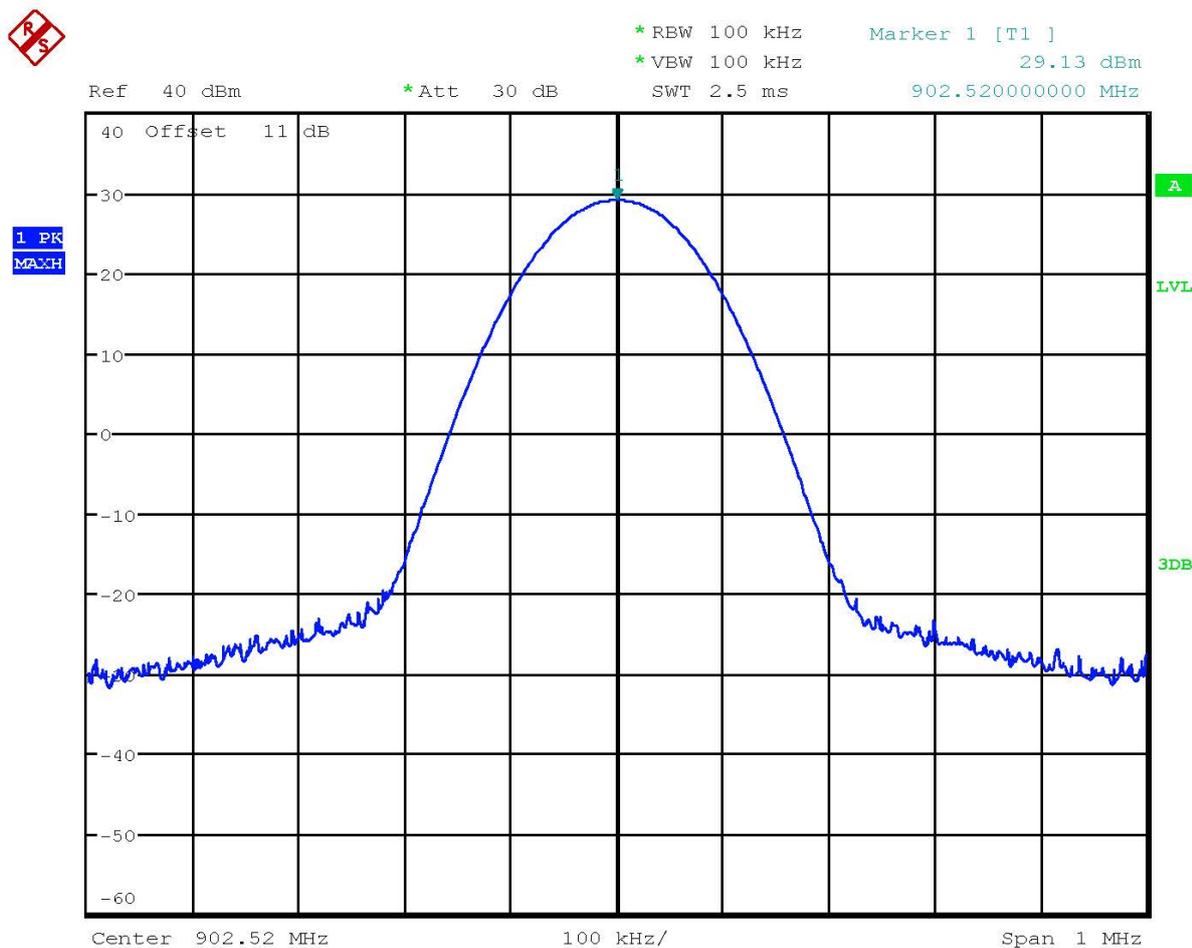
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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

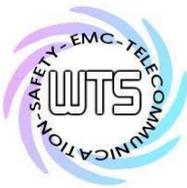
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

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



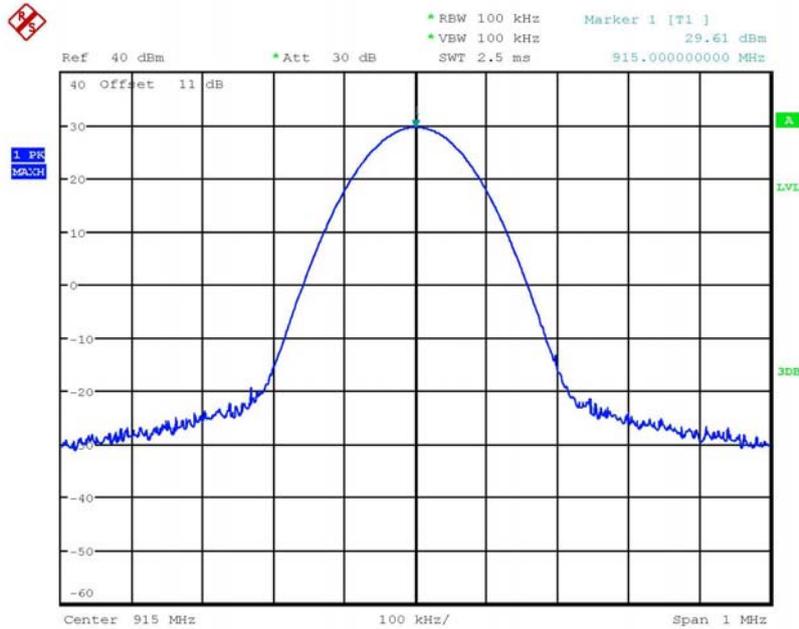
MAX OUTPUT POWER CH0

Date: 29.Jun.2018 01:22:35

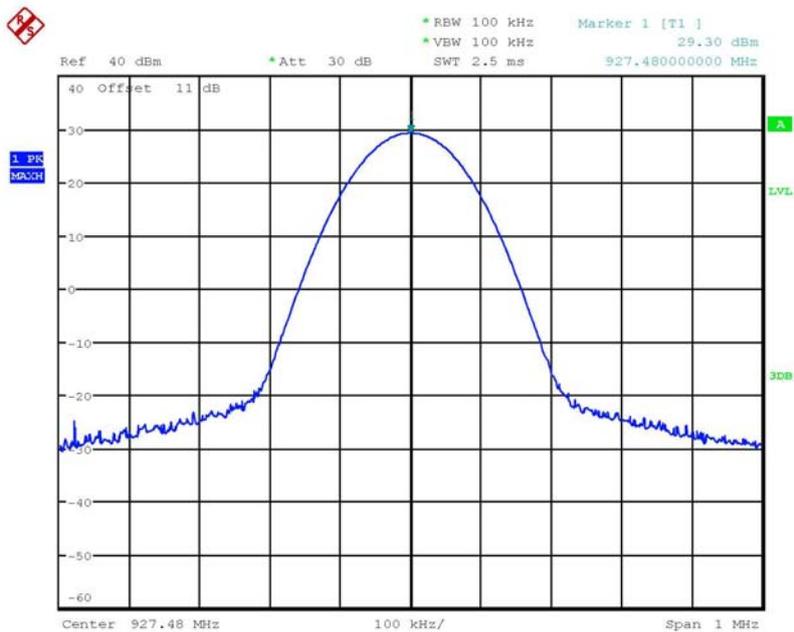


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598



MAX OUTPUT POWER CH26
Date: 29.Jun.2018 01:11:53



MAX OUTPUT POWER CH52
Date: 29.Jun.2018 01:23:08



Registration number: W6M21804-18010-C-7

FCC ID: IPH-03598

EDR mode

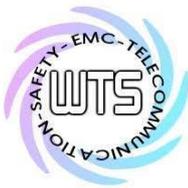
Maximum Peak Output Power

Limits:

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

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

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



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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power
 EIRP = 29.61 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

- S – Power Density
- P – Output power ERP
- R – Distance
- D – Cable Loss
- AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	914.1132	Peak value
D	dB		
AG	dBi	0	
G		1	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.1819	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0



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3.4 Transmitter Radiated Emissions in restricted Bands

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

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

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

RES BW VID BW

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

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

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

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

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

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dB μ V/m

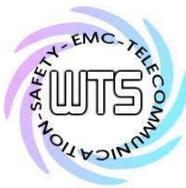
For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dB μ V/m + 20 dB= 74 dB μ V/m

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



Worldwide Testing Services(Taiwan) Co., Ltd.

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3.5 Spurious emissions (tx)

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

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

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

Calculation of test results:

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

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

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

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

Summary table with radiated data of the test plots

Model: A03598 Date: --
 Mode: -- Temperature: -- °C Engineer: -- c
 Polarization: -- Humidity: -- %

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

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Measurement uncertainty above 1GHz: 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. See attached diagrams in appendix.

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

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

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

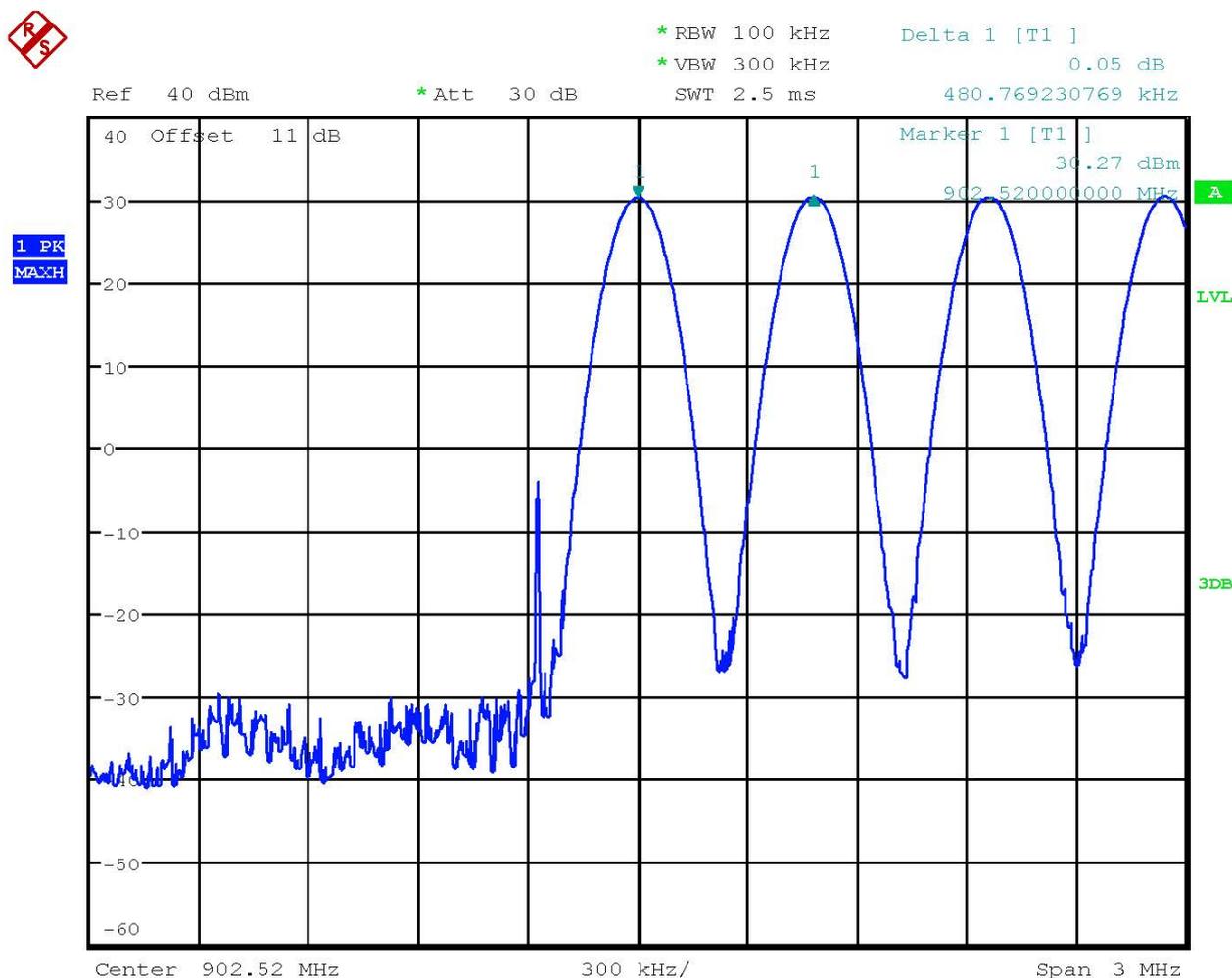


Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.6 Carrier Frequency Separation

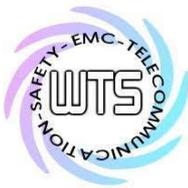
Carrier Frequency Separation was measured with modulation (declared by manufacturer).

According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.



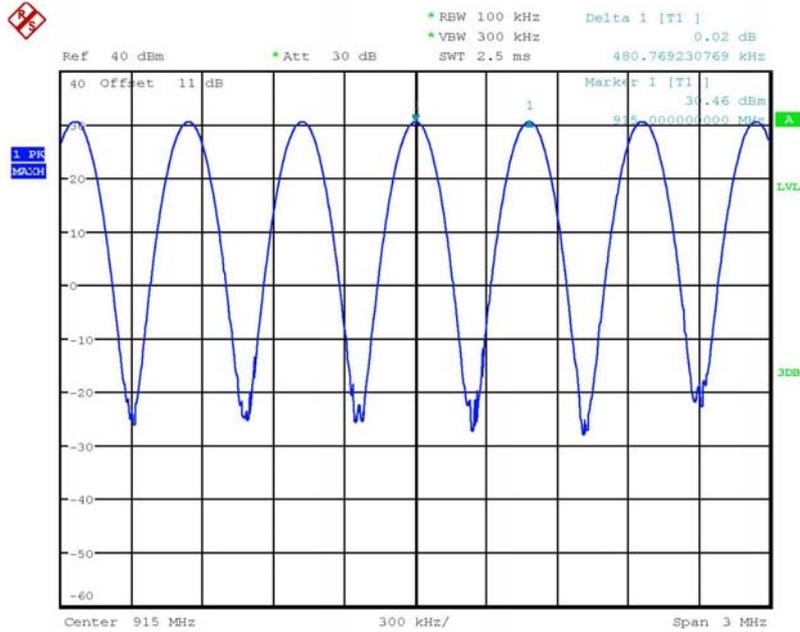
FREQUENCY SEPARATION CH0

Date: 29.Jun.2018 01:12:46

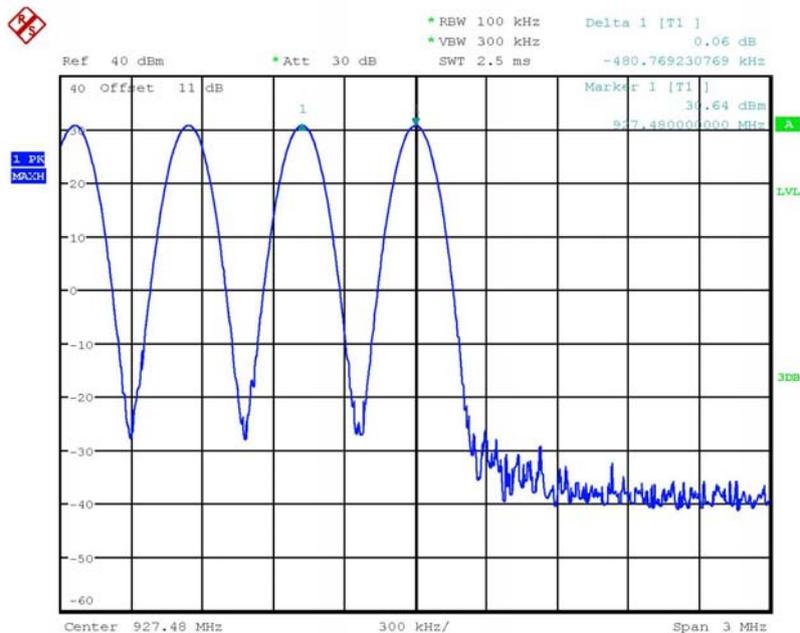


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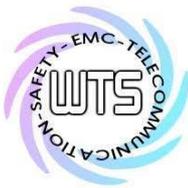
Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598



FREQUENCY SEPARATION CH26
Date: 29.Jun.2018 01:17:33



FREQUENCY SEPARATION CH52
Date: 29.Jun.2018 01:20:32



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

Limits:

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

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

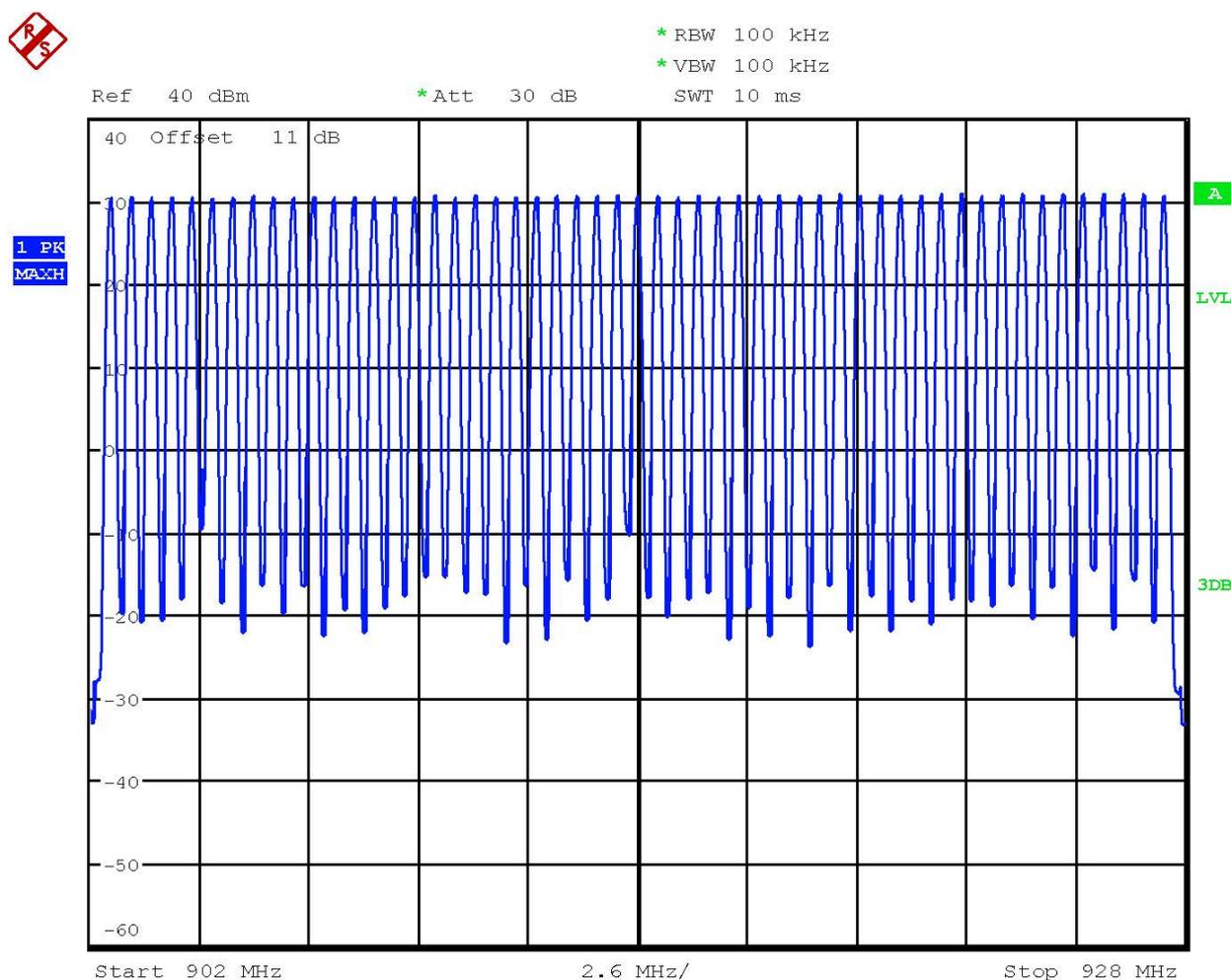


Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.7 Number of Hopping Frequencies

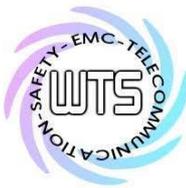
According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.



NUMBER OF HOPPING CH0-52

Date: 29.Jun.2018 00:59:00



Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598

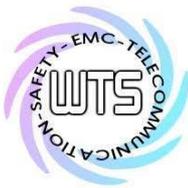
Limits:

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

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

3.7.1 Pseudorandom Frequency Hopping Sequence

CH0	902.52	CH27	915.48
CH1	903	CH28	915.96
CH2	903.48	CH29	916.44
CH3	903.96	CH30	916.92
CH4	904.44	CH31	917.4
CH5	904.92	CH32	917.88
CH6	905.4	CH33	918.36
CH7	905.88	CH34	918.84
CH8	906.36	CH35	919.32
CH9	906.84	CH36	919.8
CH10	907.32	CH37	920.28
CH11	907.8	CH38	920.76
CH12	908.28	CH39	921.24
CH13	908.76	CH40	921.72
CH14	909.24	CH41	922.2
CH15	909.72	CH42	922.68
CH16	910.2	CH43	923.16
CH17	910.68	CH44	923.64
CH18	911.16	CH45	924.12
CH19	911.64	CH46	924.6
CH20	912.12	CH47	925.08
CH21	912.6	CH48	925.56
CH22	913.08	CH49	926.04
CH23	913.56	CH50	926.52
CH24	914.04	CH51	927
CH25	914.52	CH52	927.48
CH26	915	--	--



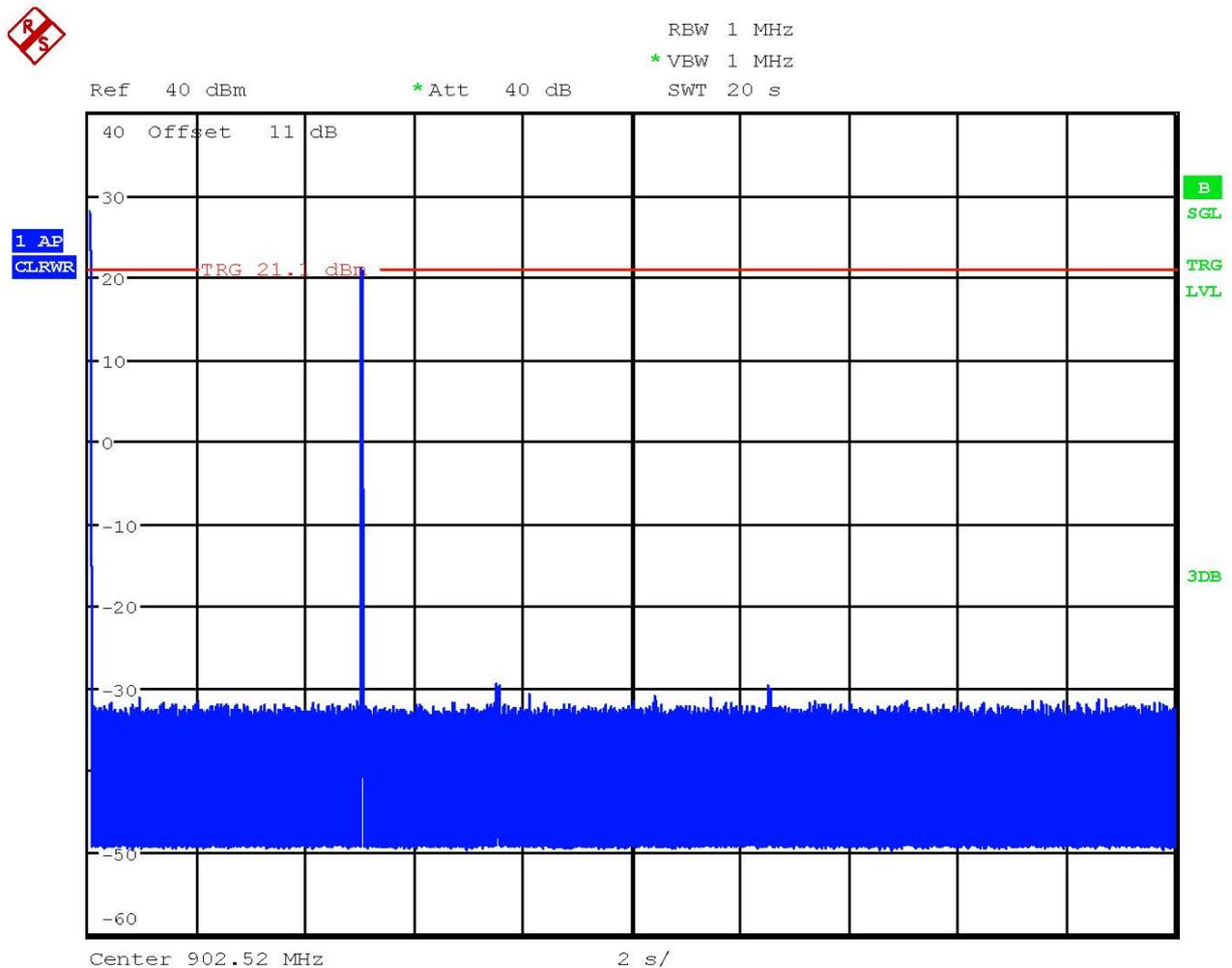
Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.8 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

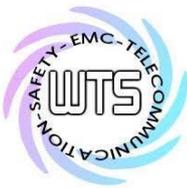
In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.



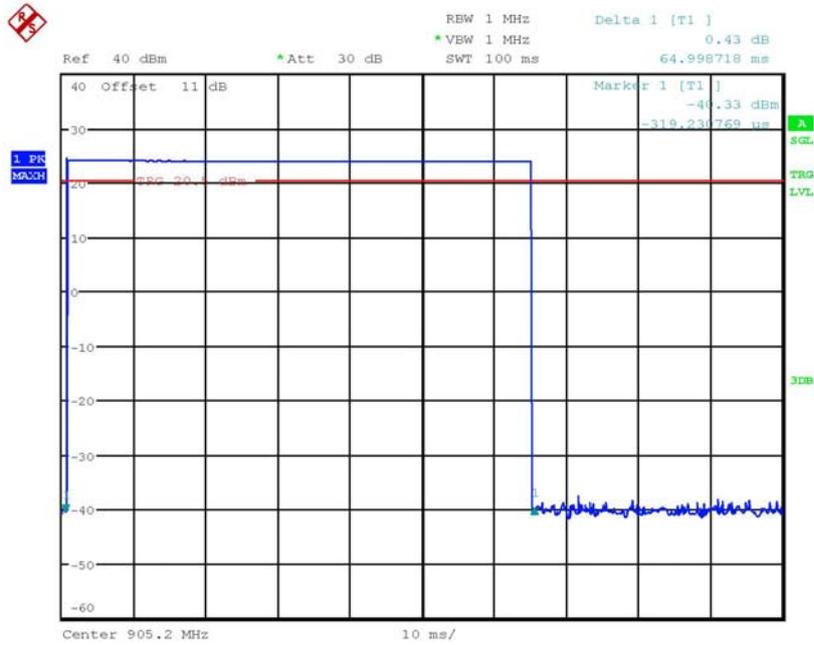
DWELL TIME CH0 (64.998718 * 2 = 129.997ms)

Date: 29.Jun.2018 02:27:06

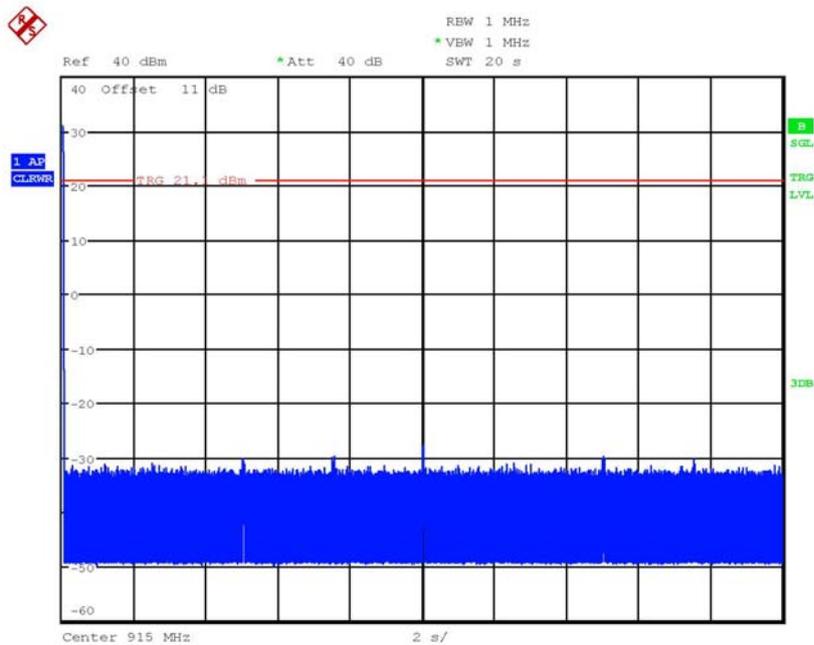


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598



DWELL TIME CH0
 Date: 29.Jun.2018 01:54:06

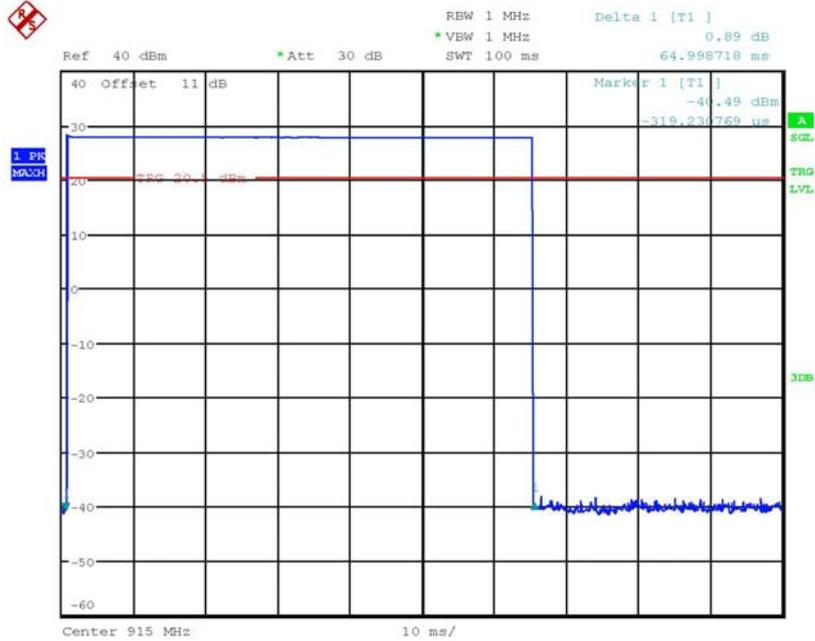


DWELL TIME CH26 (64.998718 + 1 = 64.998ms)
 Date: 29.Jun.2018 02:25:10

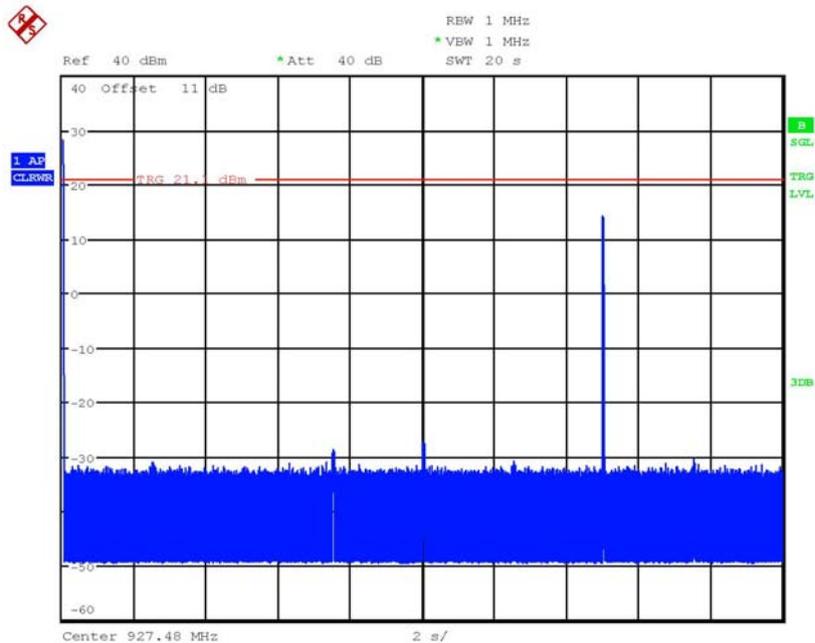


Worldwide Testing Services(Taiwan) Co., Ltd.

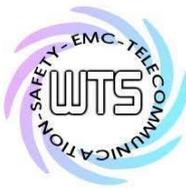
Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598



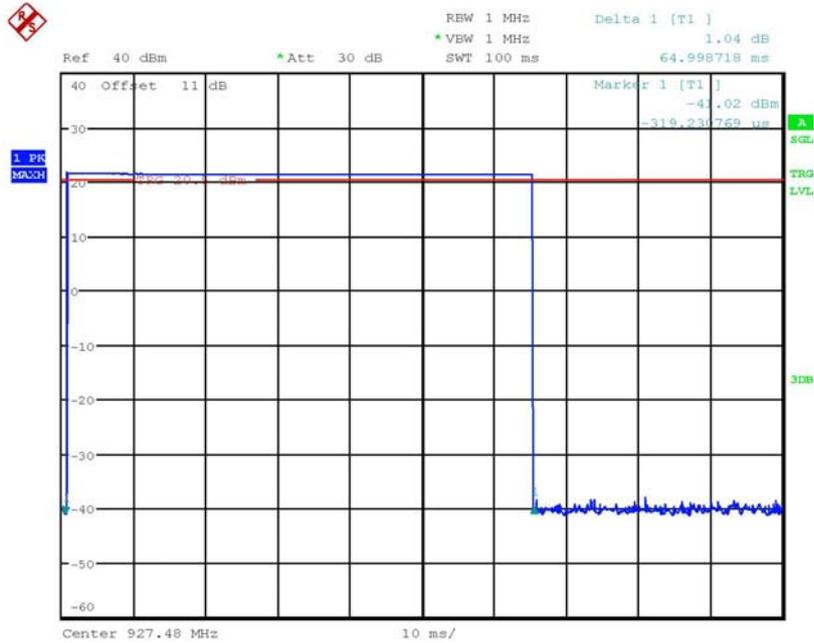
DWELL TIME CH26
 Date: 29.Jun.2018 01:47:08



DWELL TIME CH52 (64.998718 * 2 = 129.997ms)
 Date: 29.Jun.2018 02:19:37



Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598



DWELL TIME CH52
 Date: 29.Jun.2018 02:20:43

Limits and measurement periods:

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

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



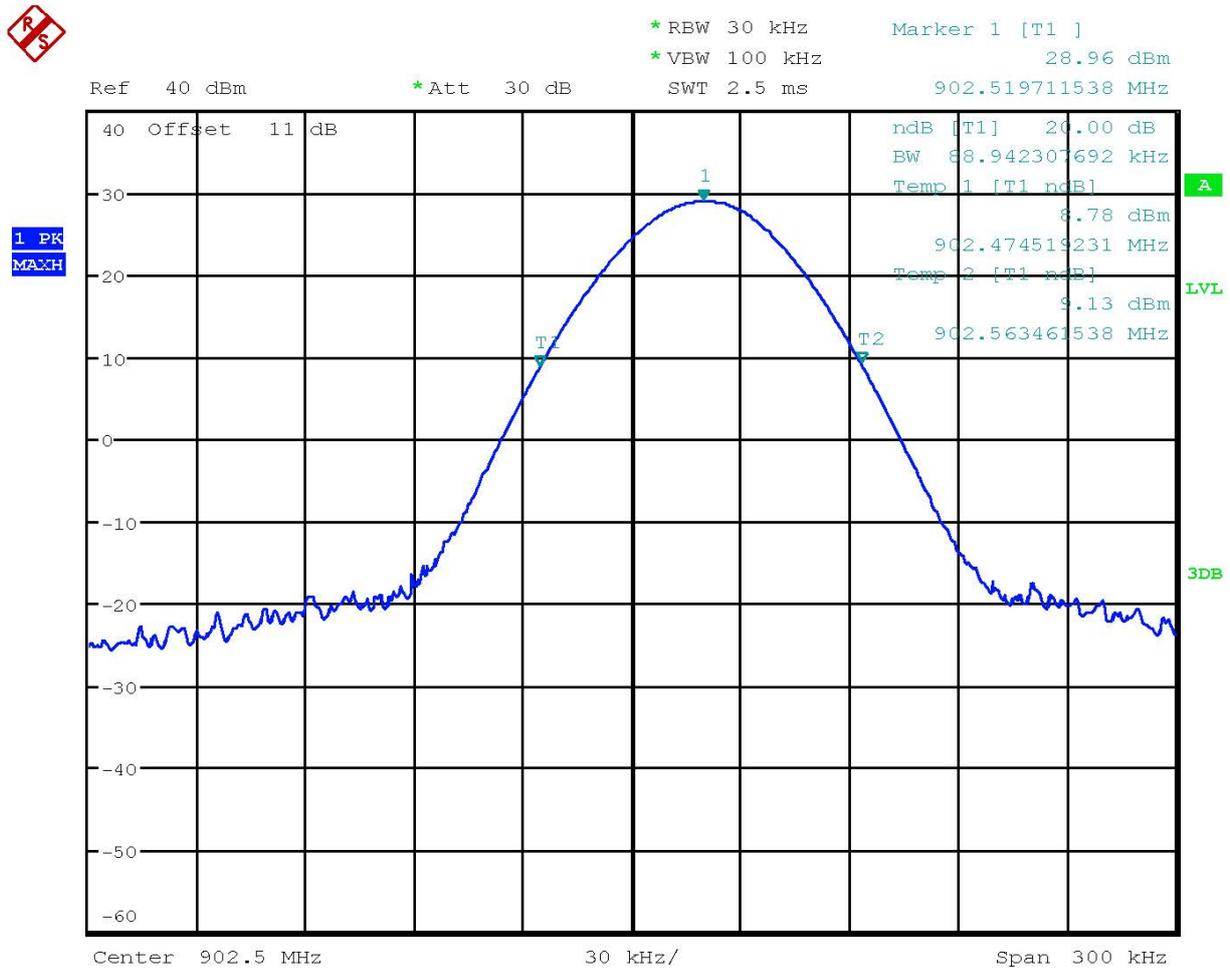
Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.9 20dB Bandwidth

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

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

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



20dB Bandwidth CH0

Date: 29.Jun.2018 02:44:16



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

Limits:

Frequency Range / MHz	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

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

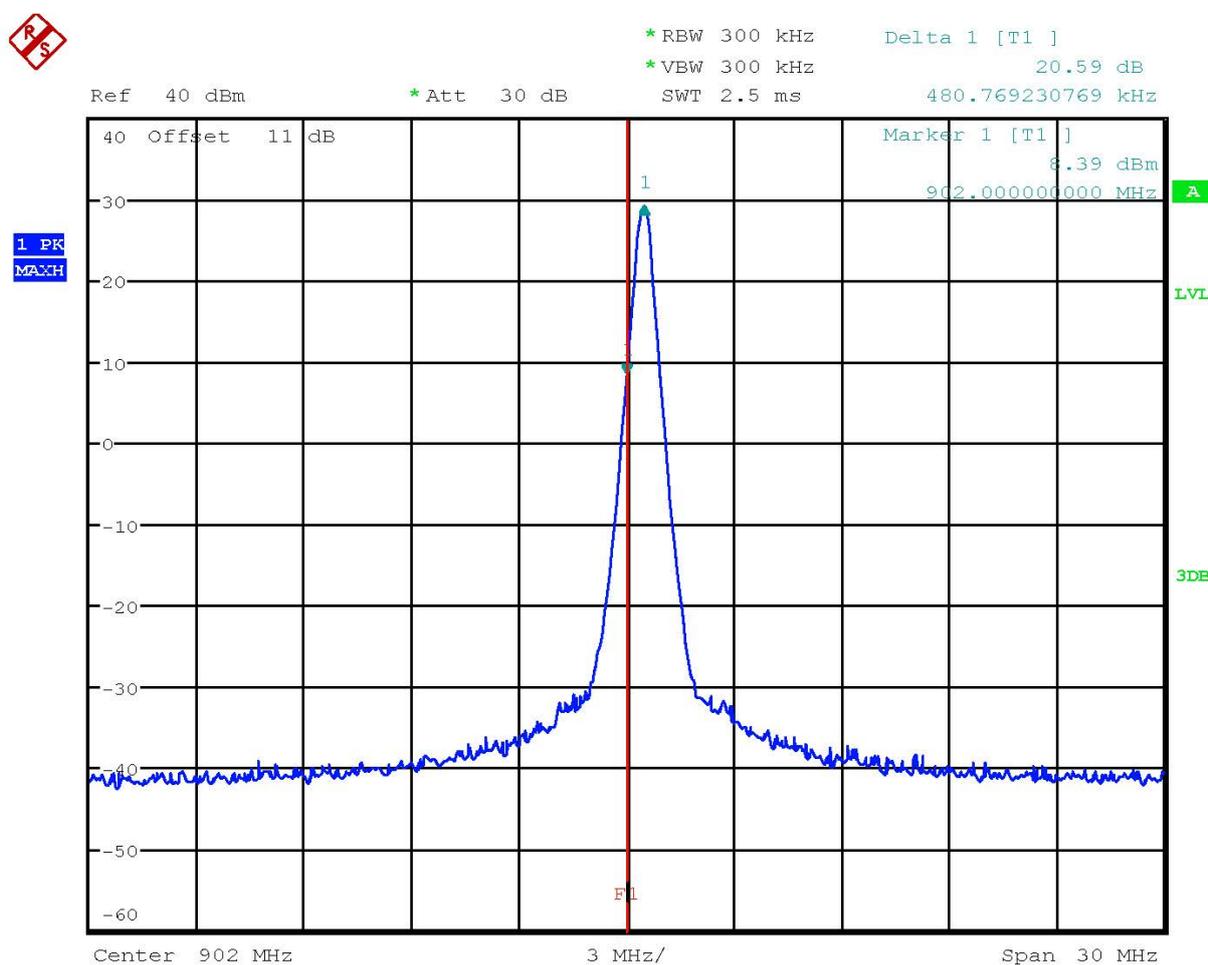


Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.10 Band-edge Compliance of RF Emissions

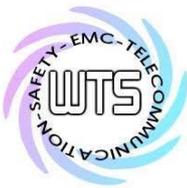
According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that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

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

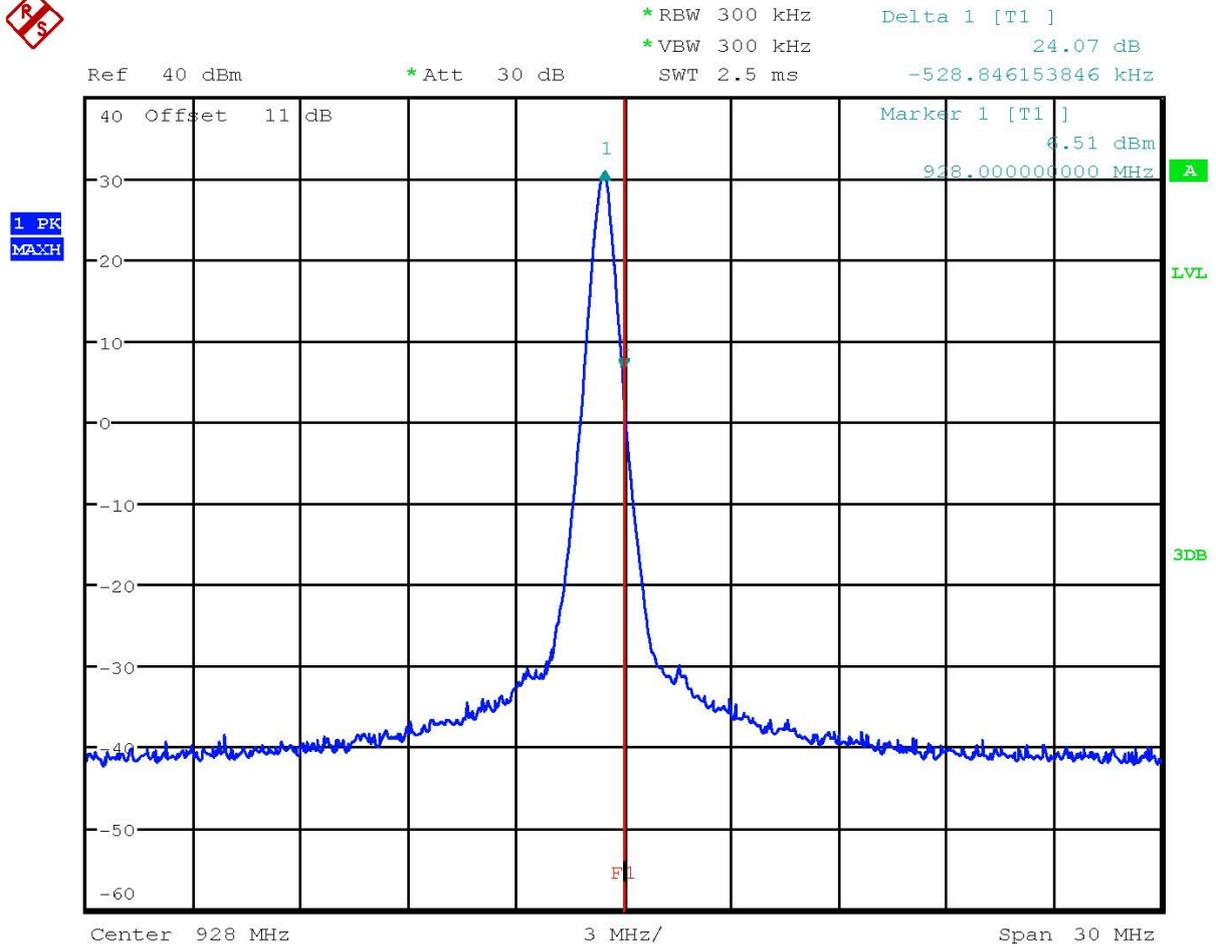


BANDEDGE CH0

Date: 29.Jun.2018 01:53:39



Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598



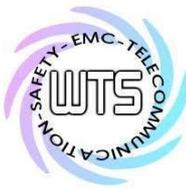
BANDEDGE CH52

Date: 29.Jun.2018 02:03:14

Limits:

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

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



Registration number: W6M21804-18010-C-7
FCC ID: IPH-03598

3.11 Radiated Emissions from Digital Part

FCC Rule: 15.109

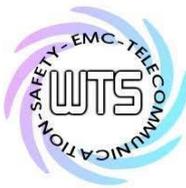
Summary table with radiated data of the test plots

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

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

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

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

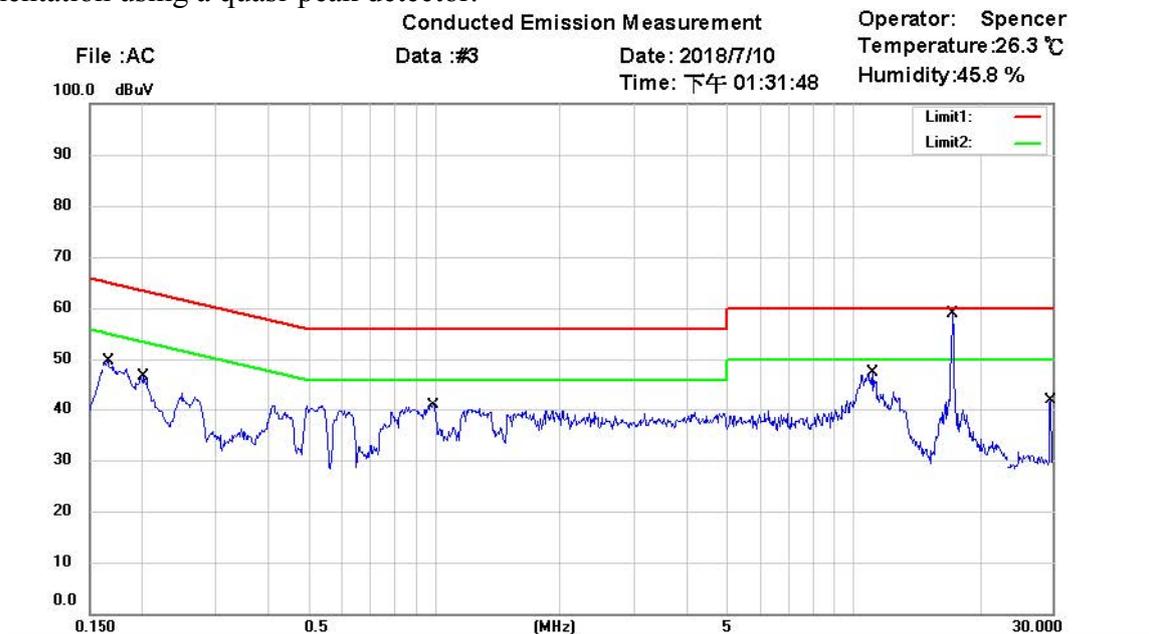


Registration number: W6M21804-18010-C-7
 FCC ID: IPH-03598

3.12 Power Line Conducted Emission

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

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



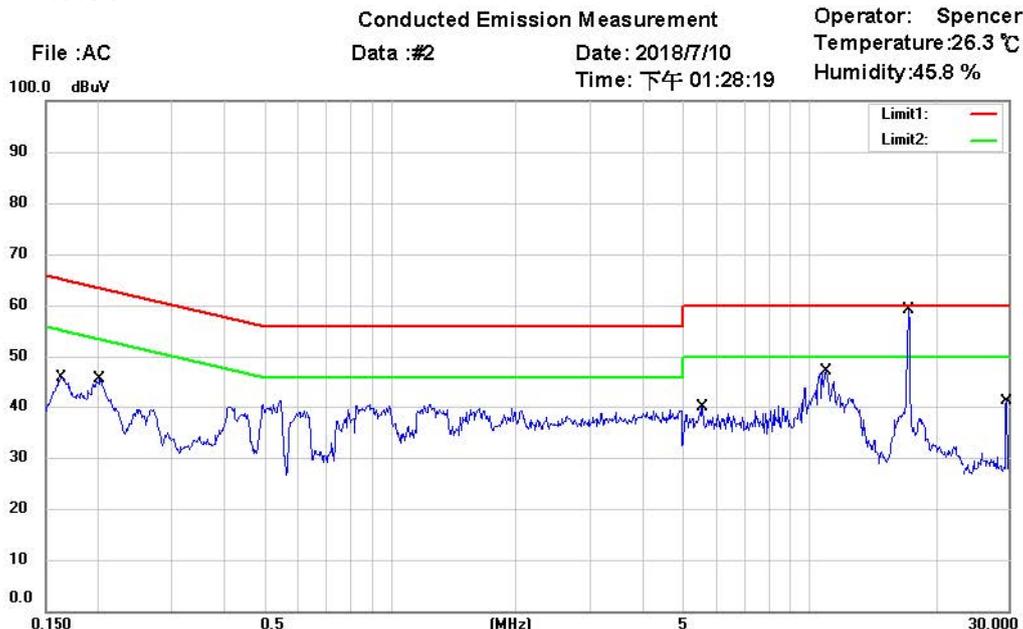
Site : Chamber_03
 Condition : FCC Part 15 Class B Conduction (QP) Phase: N
 EUT : W6M21804-18010 Power : 120V a.c.
 M/N:
 Test Mode : Charge
 Note :

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-7
 FCC ID: IPH-03598



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 + Pulse Limit Loss
 - 3.Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 - 4.All not in the table noted test results are more than 20 dB below the relevant limits.
 - 5.Measurement uncertainty = ±1.54 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.



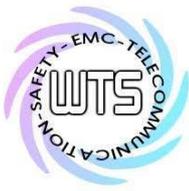
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18010-C-7
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-7
FCC ID: IPH-03598

Appendix

Measurement diagrams

Spurious Emissions radiated



Radiated Emission Measurement

Operator: Sky

File :1

Data :#1

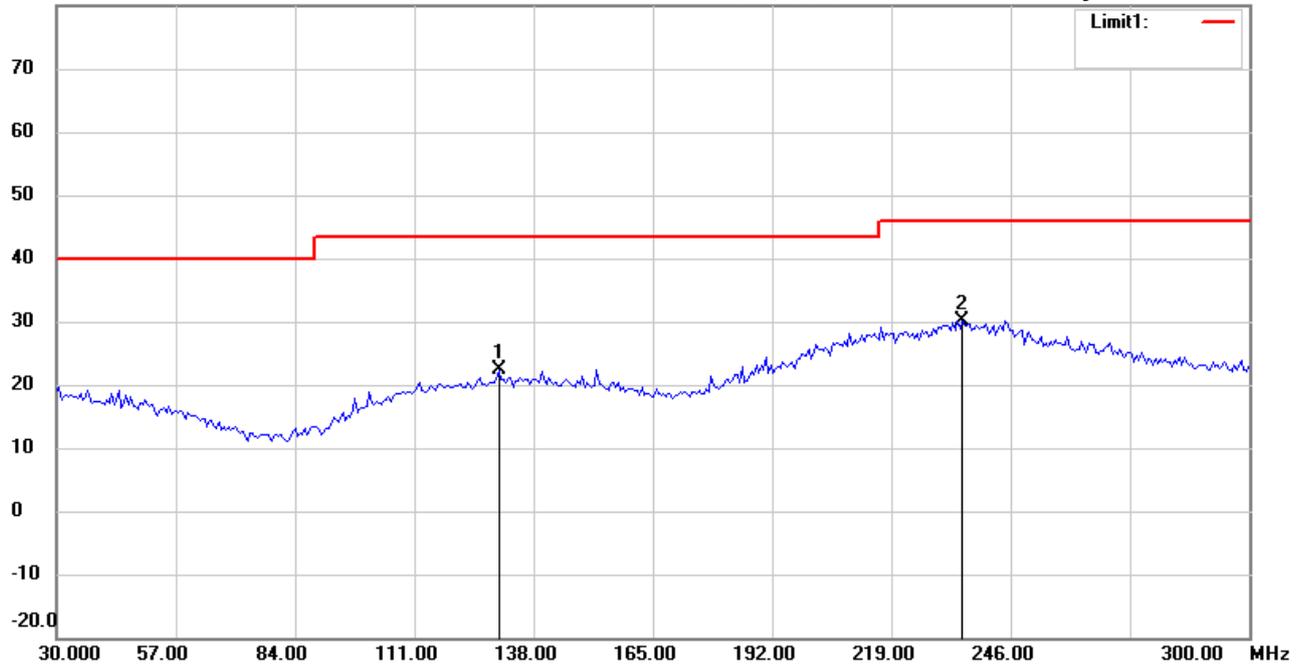
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:38:01 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 902.52MHz

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
	130.1002	28.74	peak	-6.31	22.43	43.50	100	225	-21.07	
*	235.0701	38.17	peak	-8.15	30.02	46.00	100	130	-15.98	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

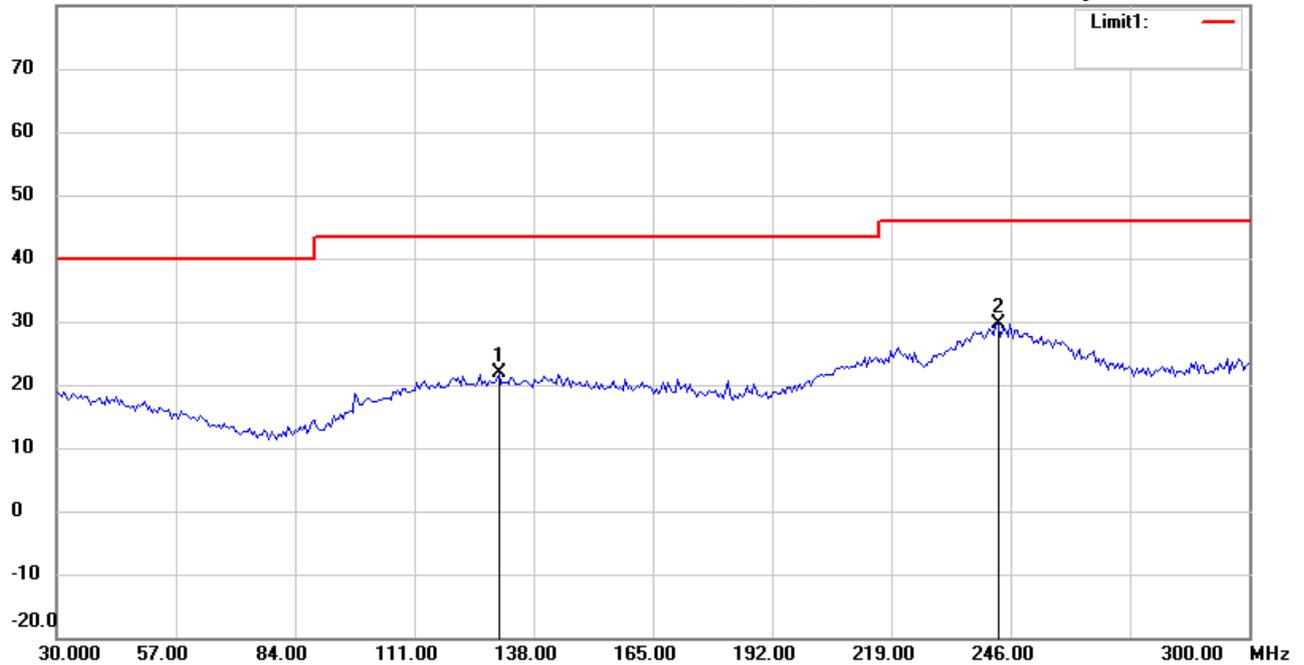
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:39:17 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 902.52MHz

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
	130.1002	28.08	peak	-6.31	21.77	43.50	100	220	-21.73	
*	243.1864	37.43	peak	-7.70	29.73	46.00	100	35	-16.27	



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Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

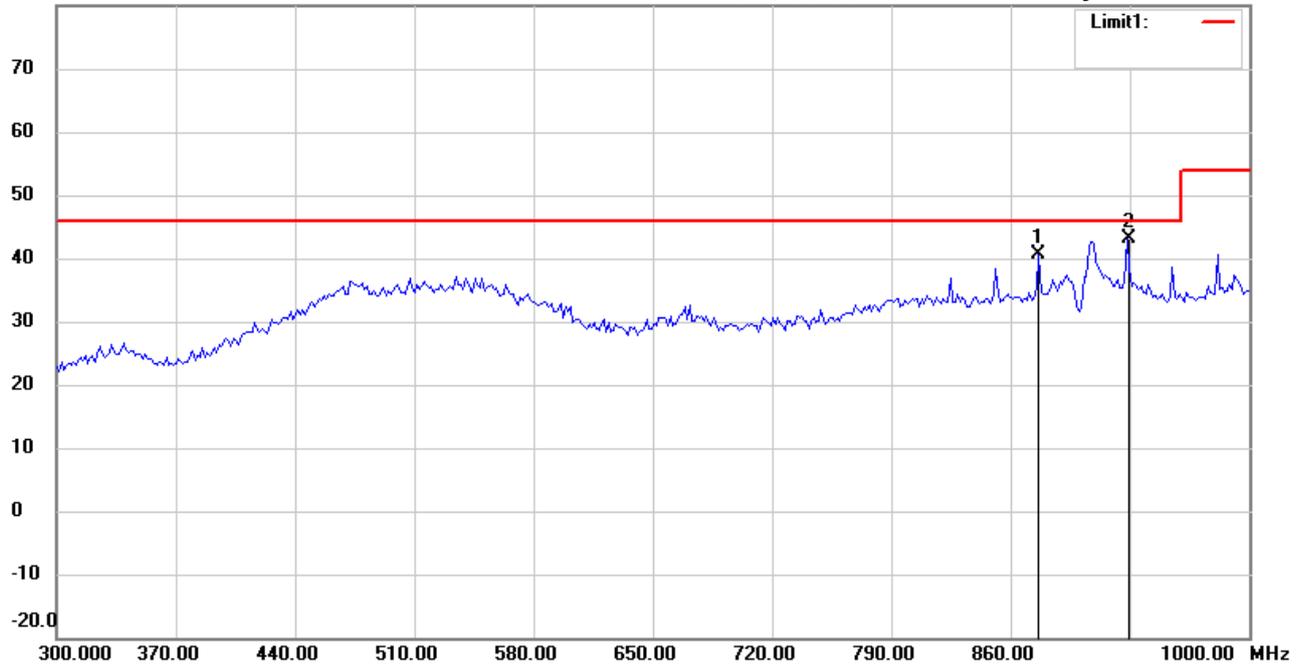
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:33:59 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 902.52MHz

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
	876.5531	36.16	peak	4.42	40.58	46.00	100	140	-5.42	
*	928.4570	37.69	peak	5.34	43.03	46.00	100	250	-2.97	

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



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

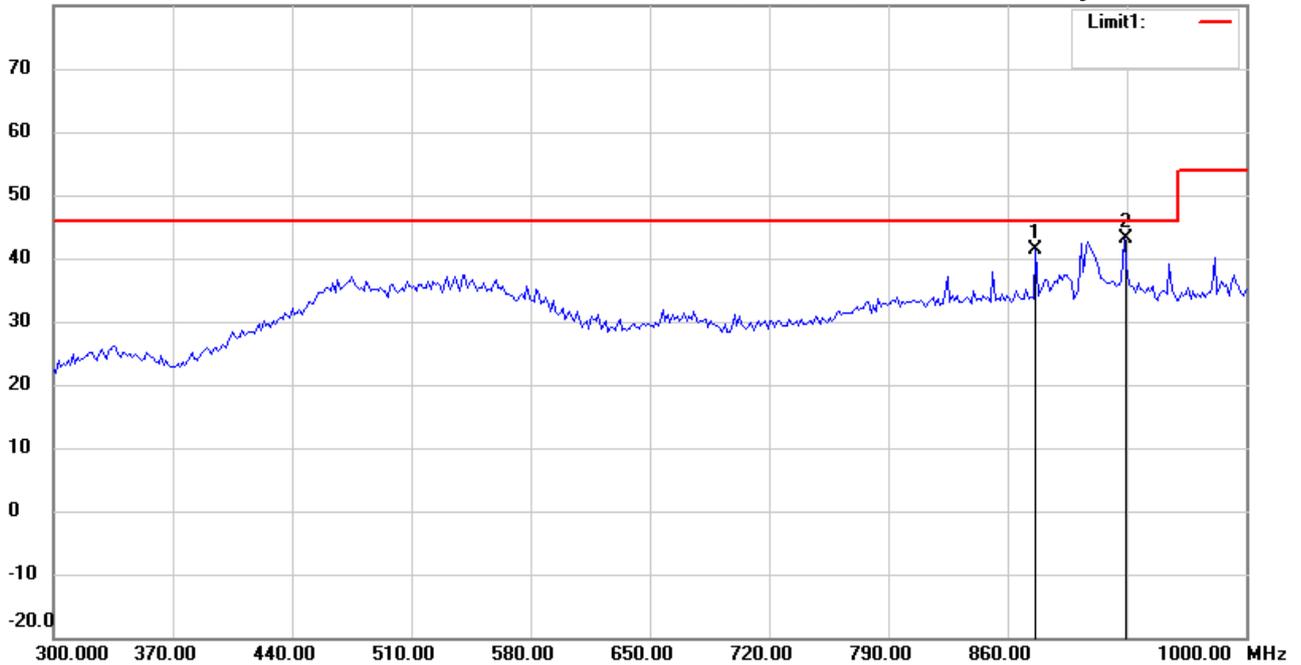
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 4:35:19 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 902.52MHz

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
	876.5531	36.99	peak	4.42	41.41	46.00	150	40	-4.59	
*	928.4570	37.76	peak	5.34	43.10	46.00	150	110	-2.90	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

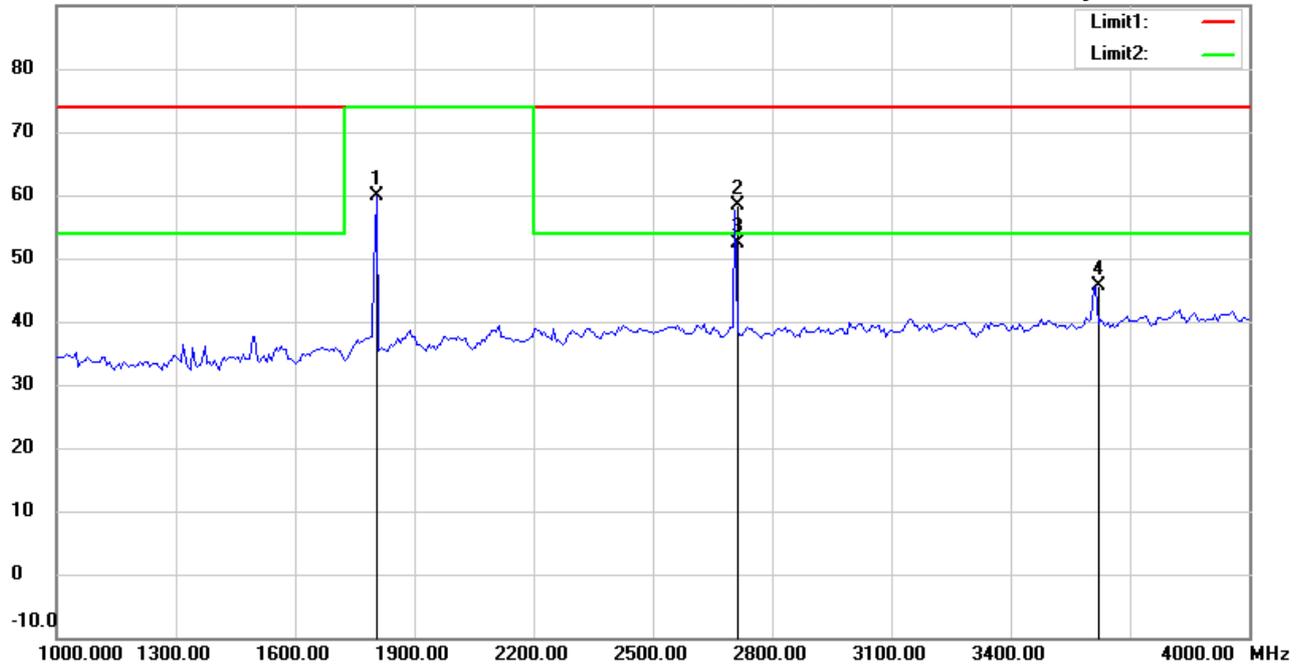
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 10:07:17 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 902.52MHz

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
	1805.611	66.29	peak	-6.49	59.80	74.00	150	225	-14.20	
	2707.415	62.11	peak	-3.83	58.28	74.00	150	15	-15.72	
*	2707.415	56.15	AVG	-3.83	52.32	54.00	150	15	-1.68	
	3615.231	46.78	peak	-1.23	45.55	74.00	150	160	-28.45	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

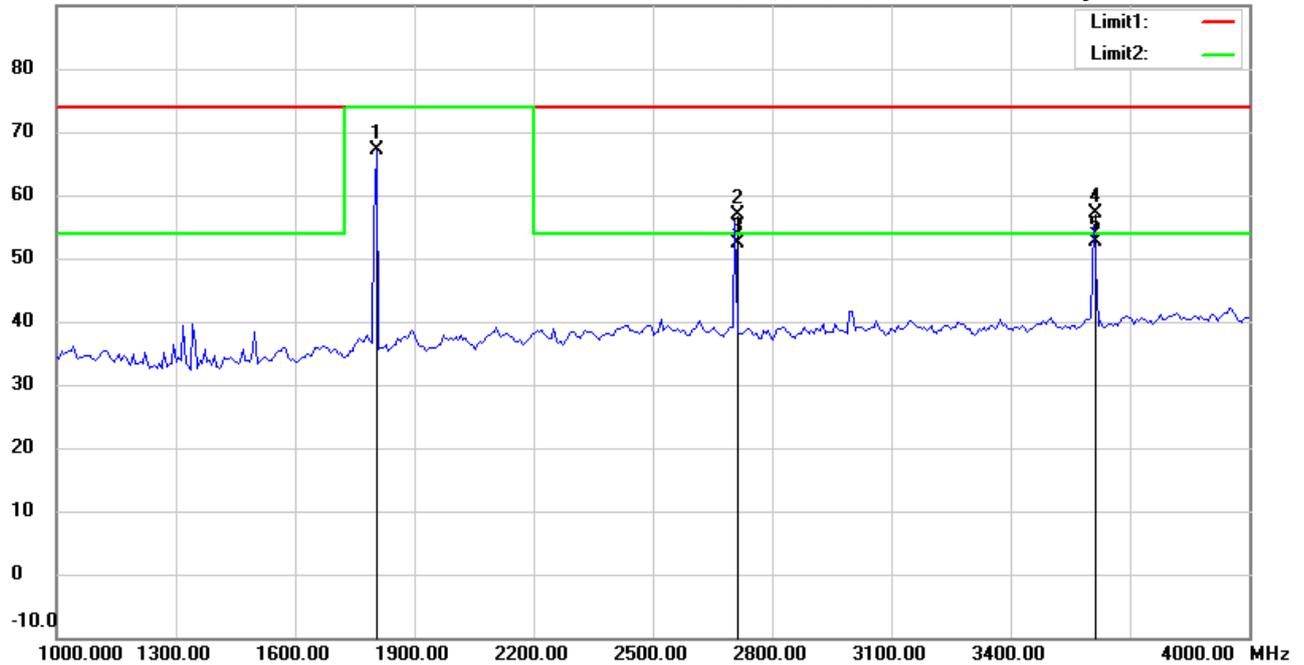
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 10:10:48 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 902.52MHz

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
	1805.611	73.66	peak	-6.49	67.17	74.00	150	295	-6.83	
	2707.580	60.69	peak	-3.83	56.86	74.00	150	235	-17.14	
	2707.580	56.29	AVG	-3.83	52.46	54.00	150	235	-1.54	
	3613.259	58.29	peak	-1.24	57.05	74.00	150	30	-16.95	
*	3613.259	53.89	AVG	-1.24	52.65	54.00	150	30	-1.35	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

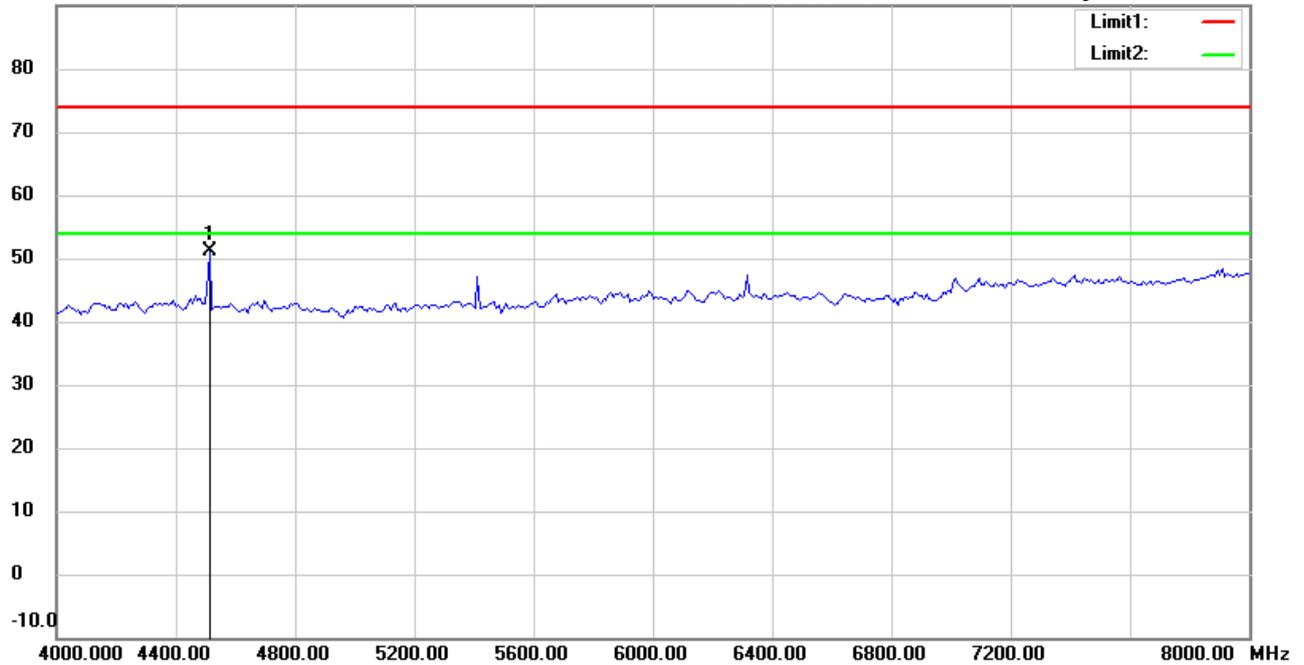
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 10:08:18 AM

Humidity:56.2 %



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 902.52MHz

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
*	4513.026	50.20	peak	0.85	51.05	74.00	150	237	-22.95	

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



Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

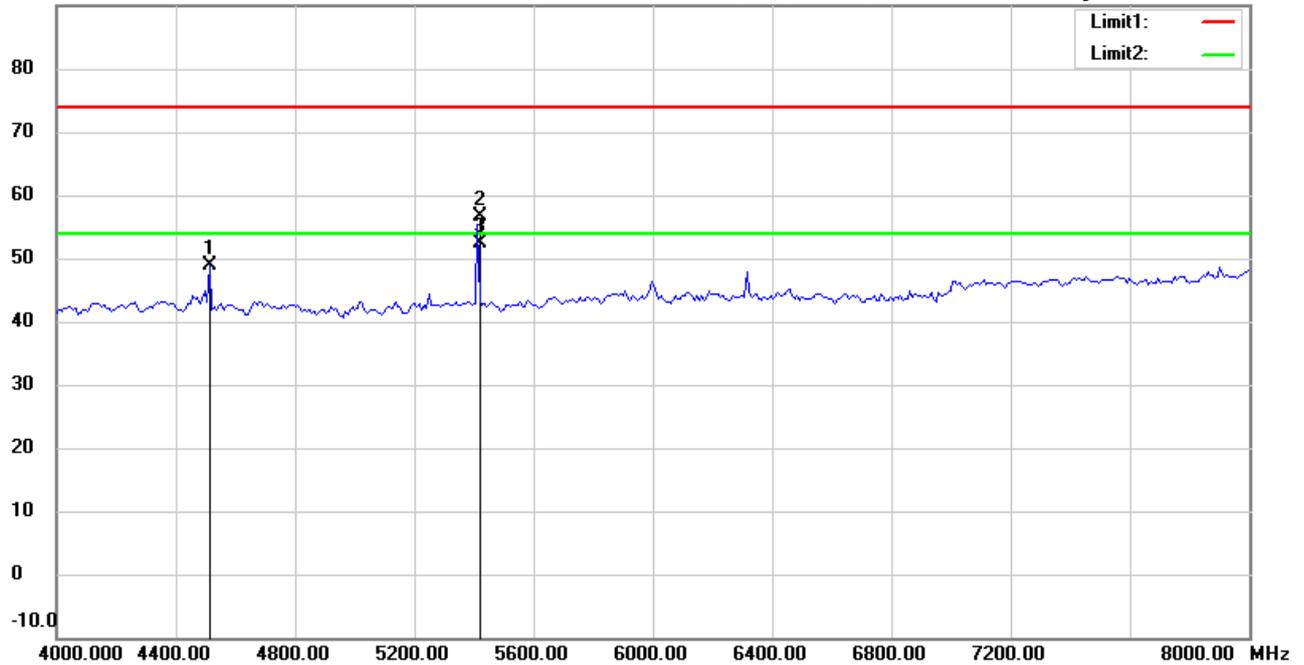
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 10:11:49 AM

Humidity:56.2 %



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 902.52MHz

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
	4513.026	48.15	peak	0.85	49.00	74.00	150	190	-25.00	
	5410.822	54.23	peak	2.49	56.72	74.00	150	215	-17.28	
*	5410.822	49.83	AVG	2.49	52.32	54.00	150	215	-1.68	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

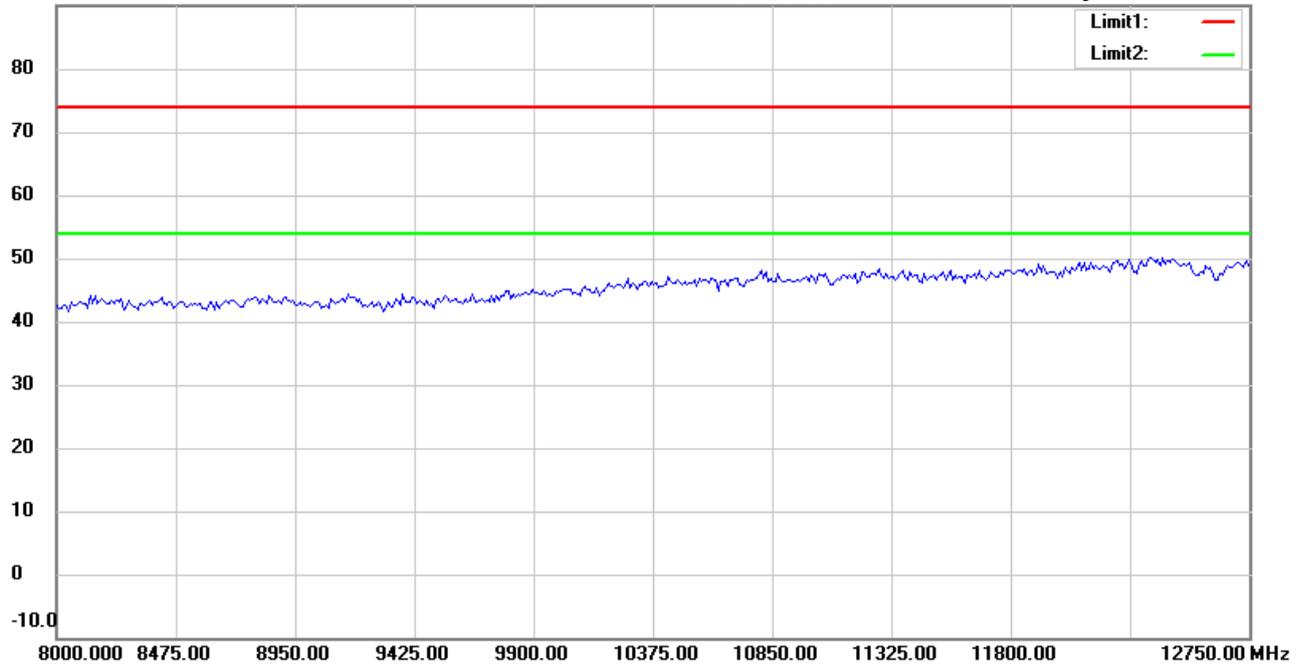
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 10:09:24 AM

Humidity:56.2 %



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 902.52MHz

Note :

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

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



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

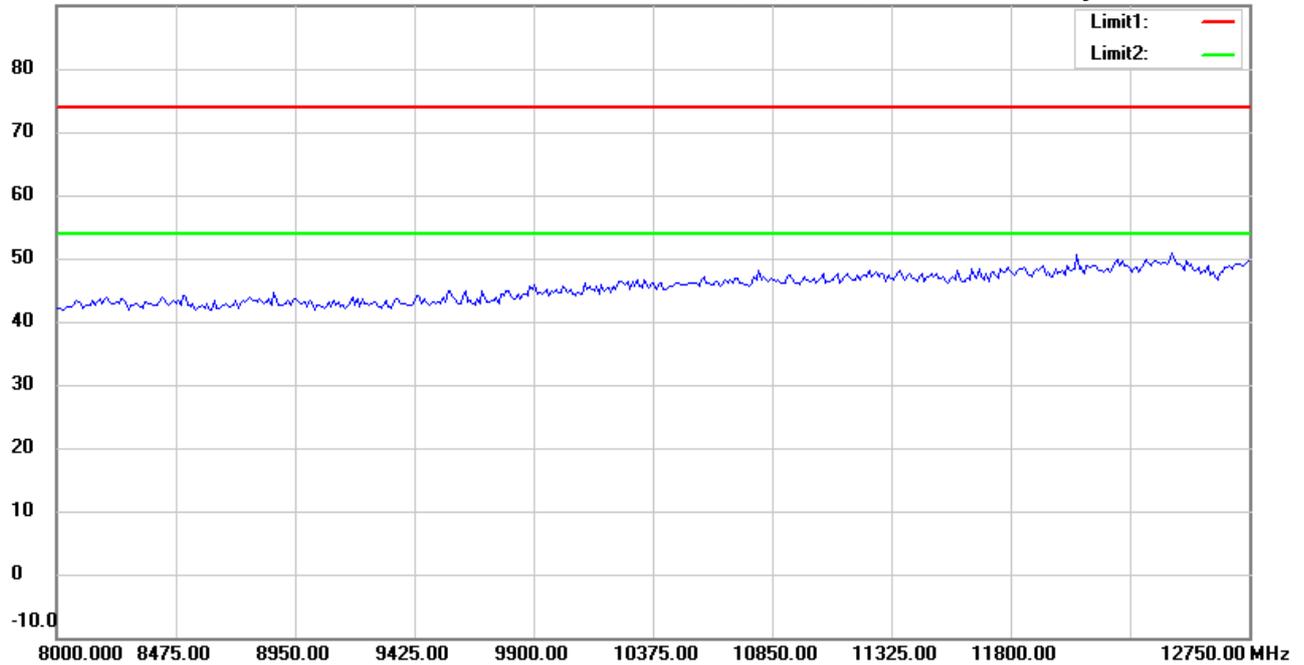
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 10:12:48 AM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 902.52MHz

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

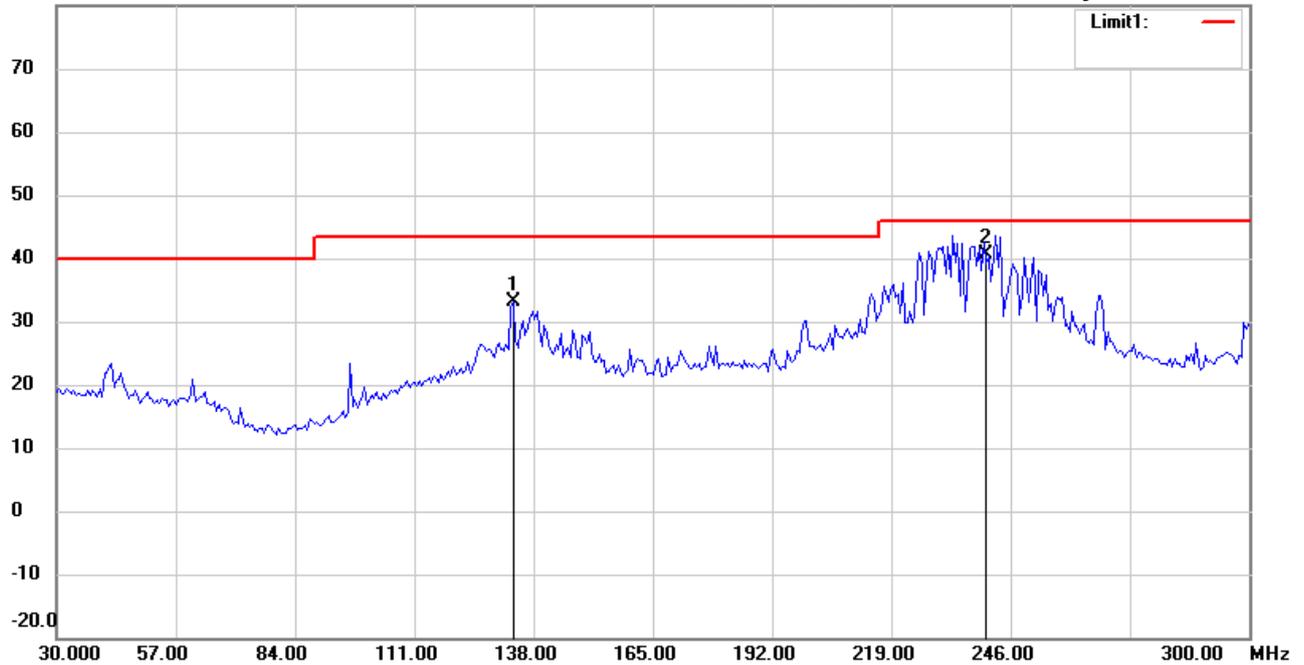
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:40:53 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	133.3466	39.50	peak	-6.36	33.14	43.50	100	115	-10.36	
*	239.9850	48.38	QP	-7.86	40.52	46.00	100	250	-5.48	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

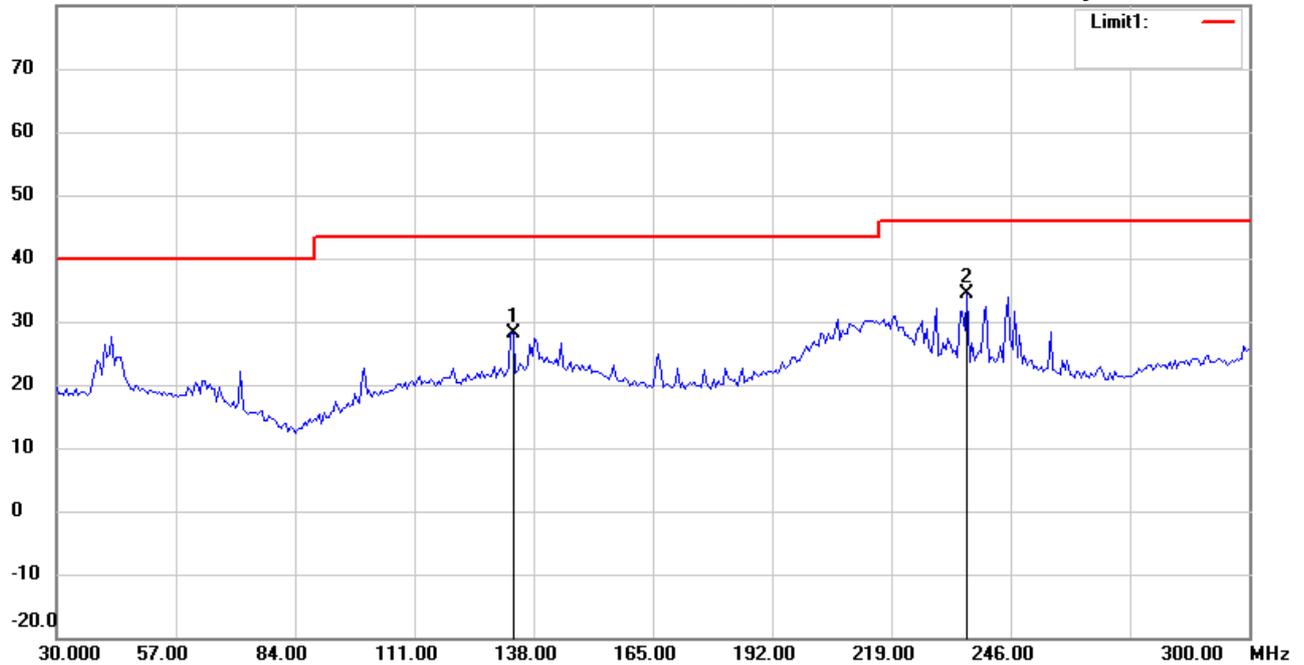
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:42:17 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	133.3466	34.48	peak	-6.36	28.12	43.50	100	210	-15.38	
*	236.1523	42.56	peak	-8.08	34.48	46.00	100	30	-11.52	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

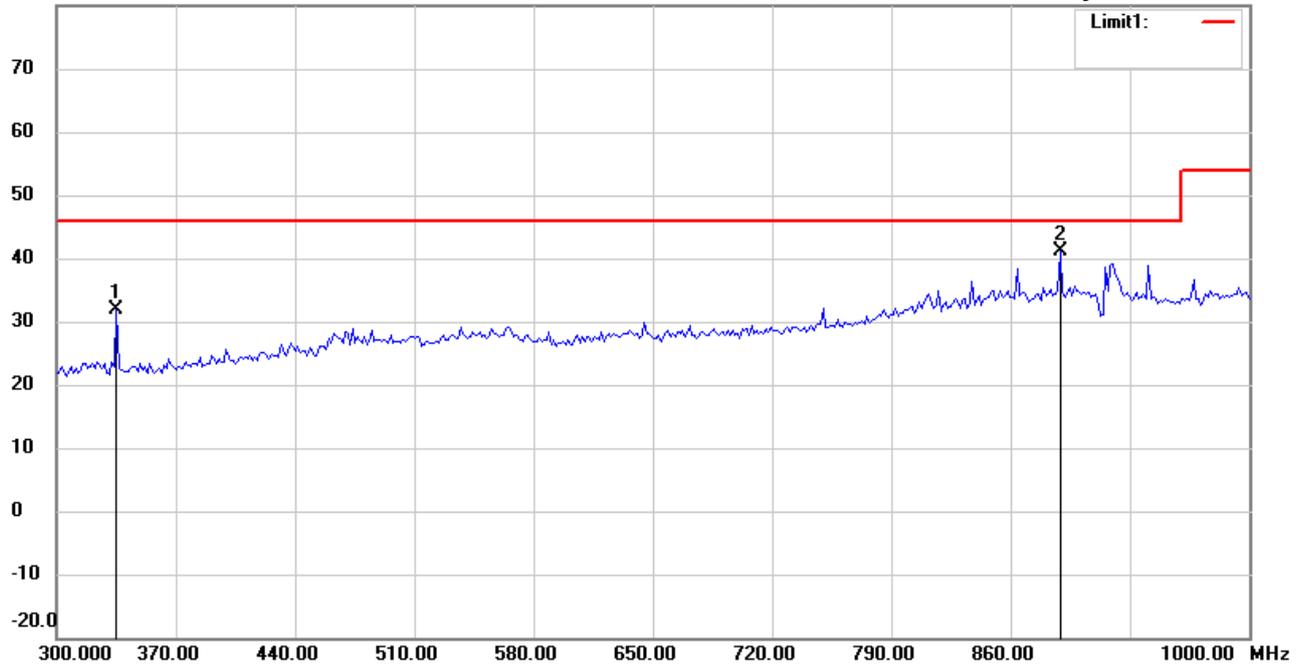
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:33:55 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 915MHz

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
	335.0701	36.81	peak	-4.88	31.93	46.00	100	255	-14.07	
*	889.1784	36.34	peak	4.67	41.01	46.00	100	160	-4.99	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

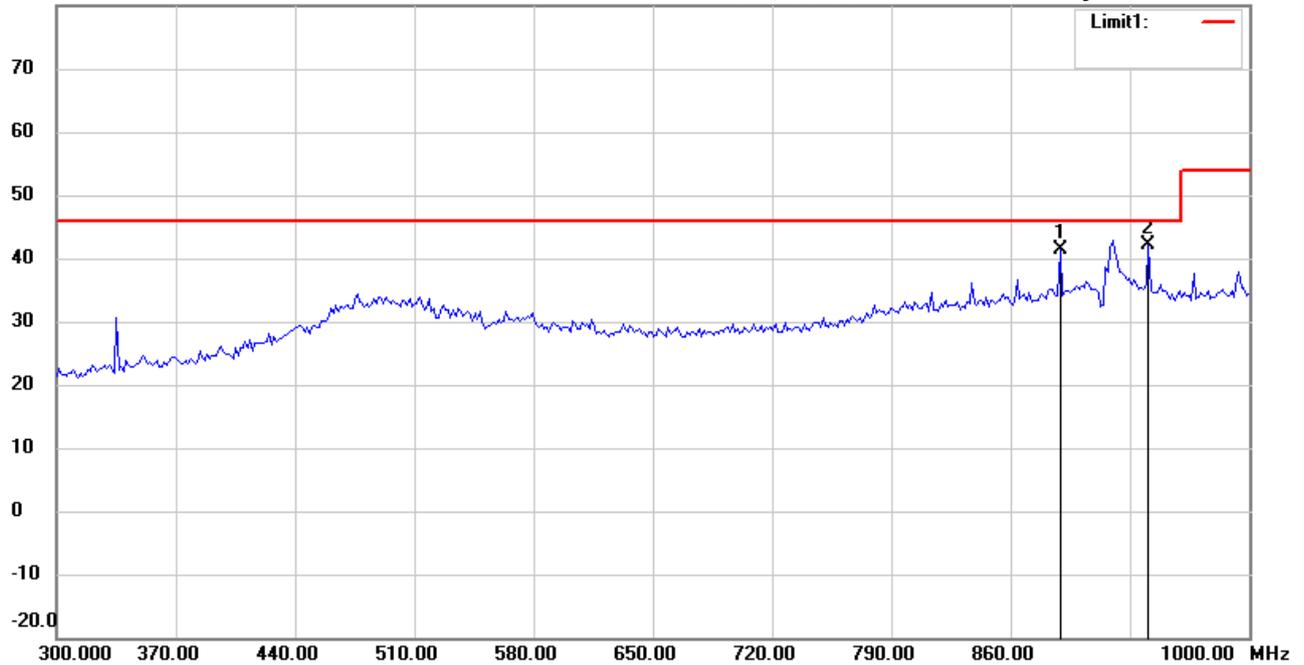
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:36:35 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	889.1784	36.66	peak	4.67	41.33	46.00	100	160	-4.67	
*	941.0822	36.61	peak	5.55	42.16	46.00	100	275	-3.84	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

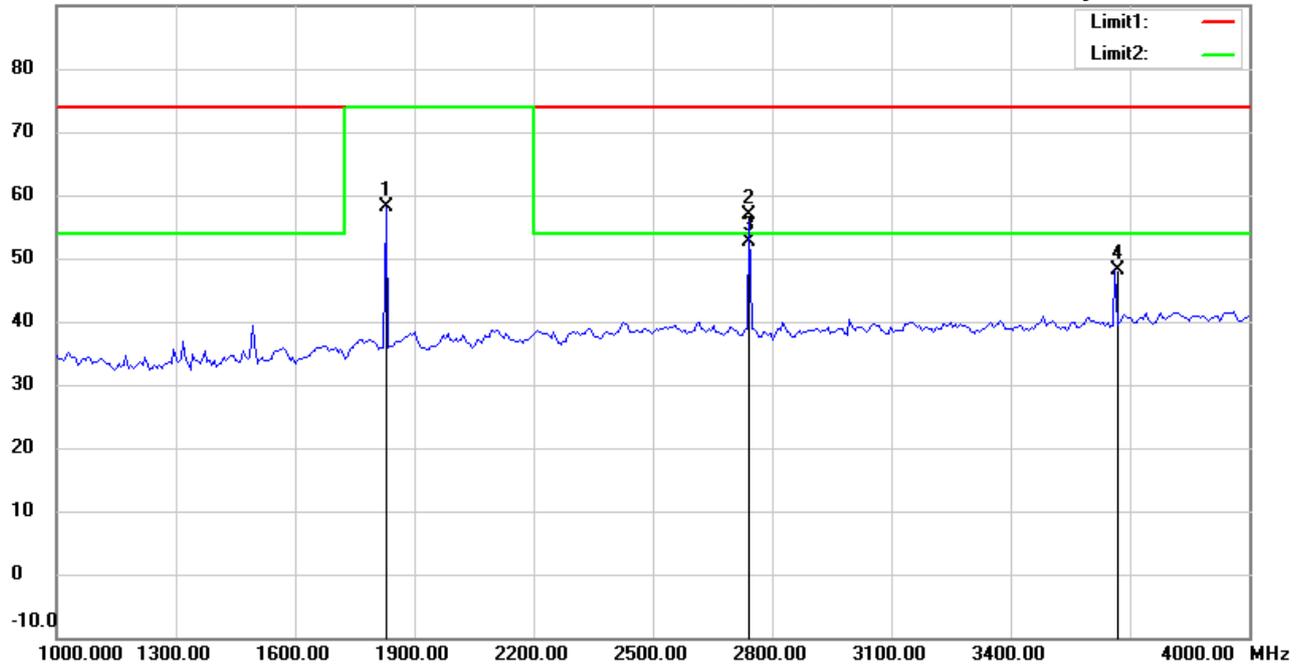
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 9:39:34 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	1829.659	64.53	peak	-6.39	58.14	74.00	150	332	-15.86	
	2743.487	60.79	peak	-3.84	56.95	74.00	150	45	-17.05	
*	2743.487	56.39	AVG	-3.84	52.55	54.00	150	45	-1.45	
	3663.327	49.33	peak	-1.12	48.21	74.00	150	225	-25.79	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

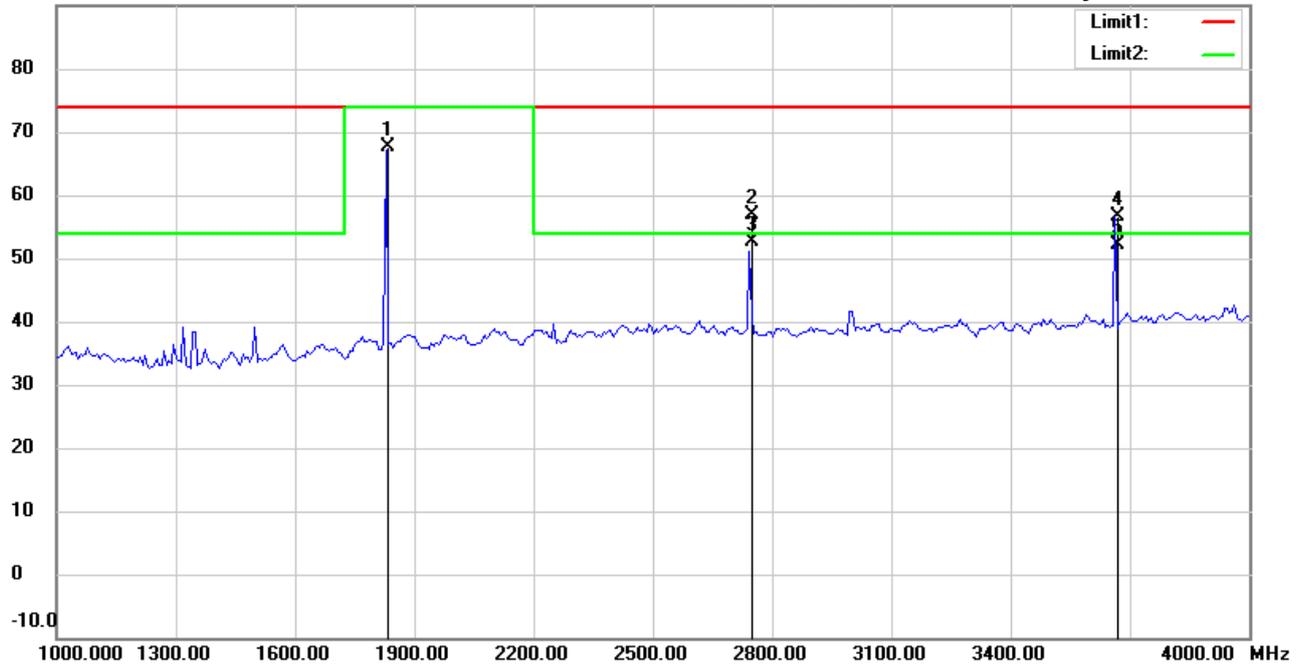
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 9:43:05 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	1829.985	74.10	peak	-6.38	67.72	74.00	150	298	-6.28	
	2744.860	60.84	peak	-3.84	57.00	74.00	175	105	-17.00	
*	2744.860	56.44	AVG	-3.84	52.60	54.00	175	105	-1.40	
	3663.327	57.77	peak	-1.12	56.65	74.00	155	137	-17.35	
	3663.327	53.37	AVG	-1.12	52.25	54.00	155	137	-1.75	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

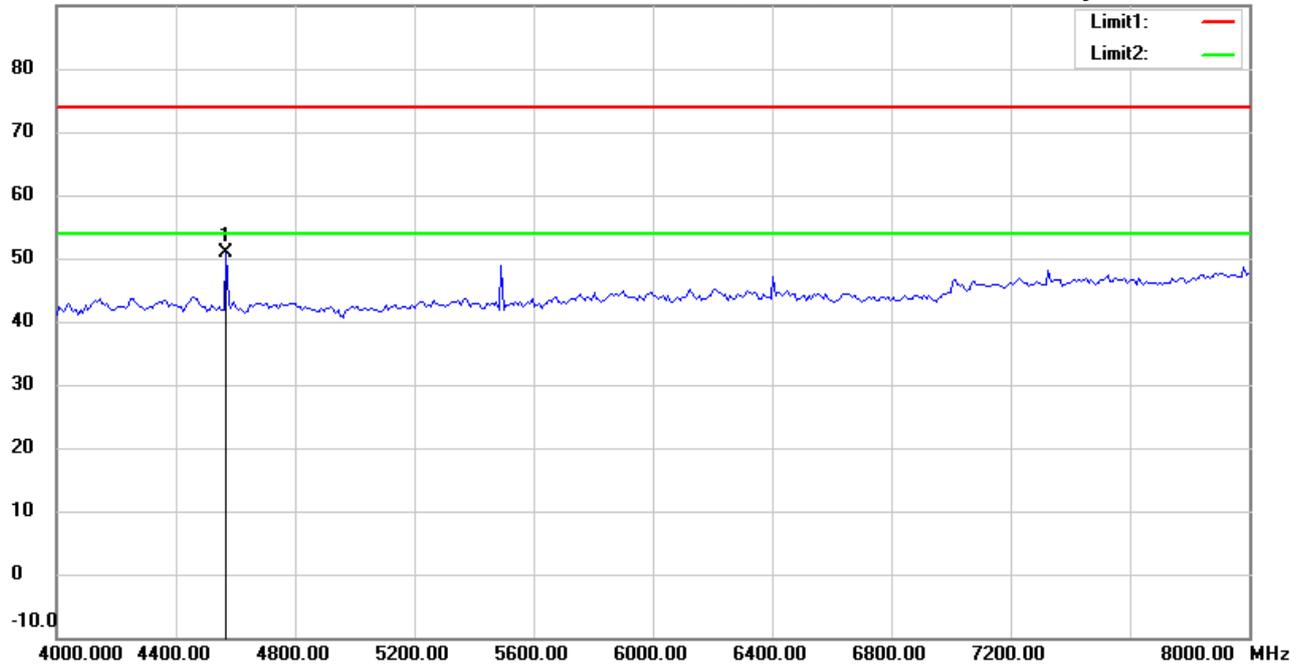
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:40:34 AM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
*	4569.138	50.22	peak	0.69	50.91	74.00	150	285	-23.09	

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



Radiated Emission Measurement

Operator: Sky

File :3

Data :#6

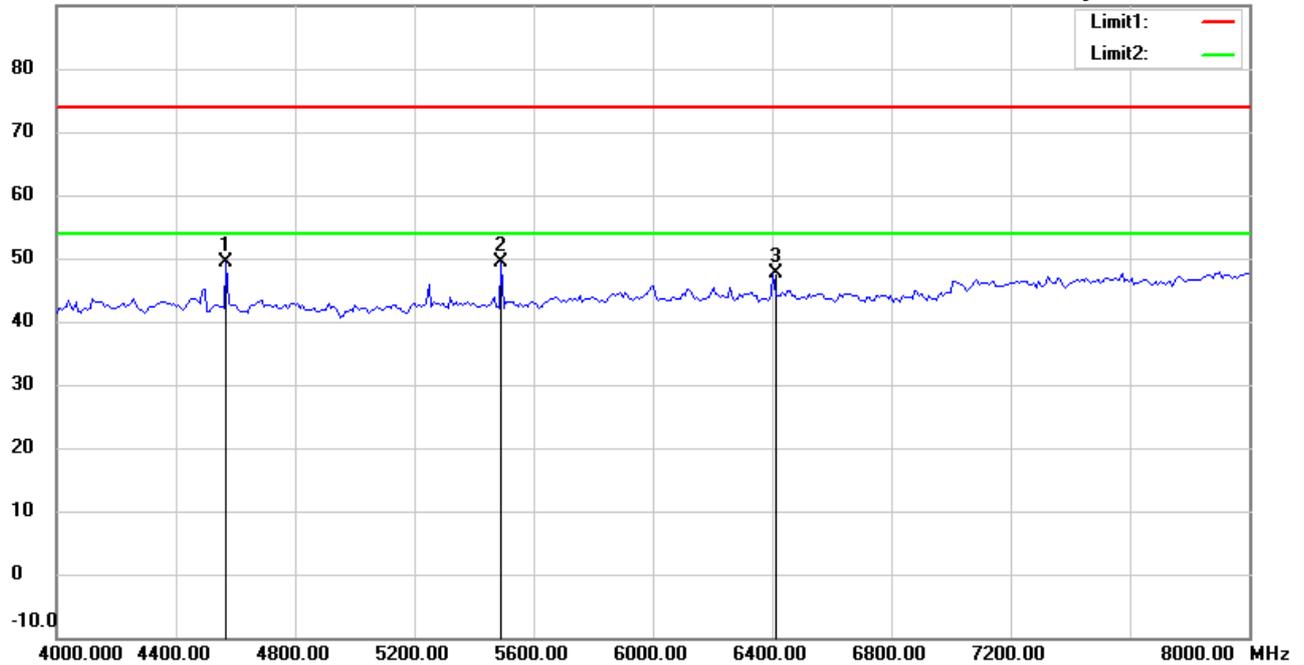
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:44:06 AM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 915MHz

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
	4569.138	48.70	peak	0.69	49.39	74.00	150	239	-24.61	
*	5490.982	47.27	peak	2.22	49.49	74.00	150	30	-24.51	
	6404.810	43.41	peak	4.34	47.75	74.00	150	90	-26.25	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

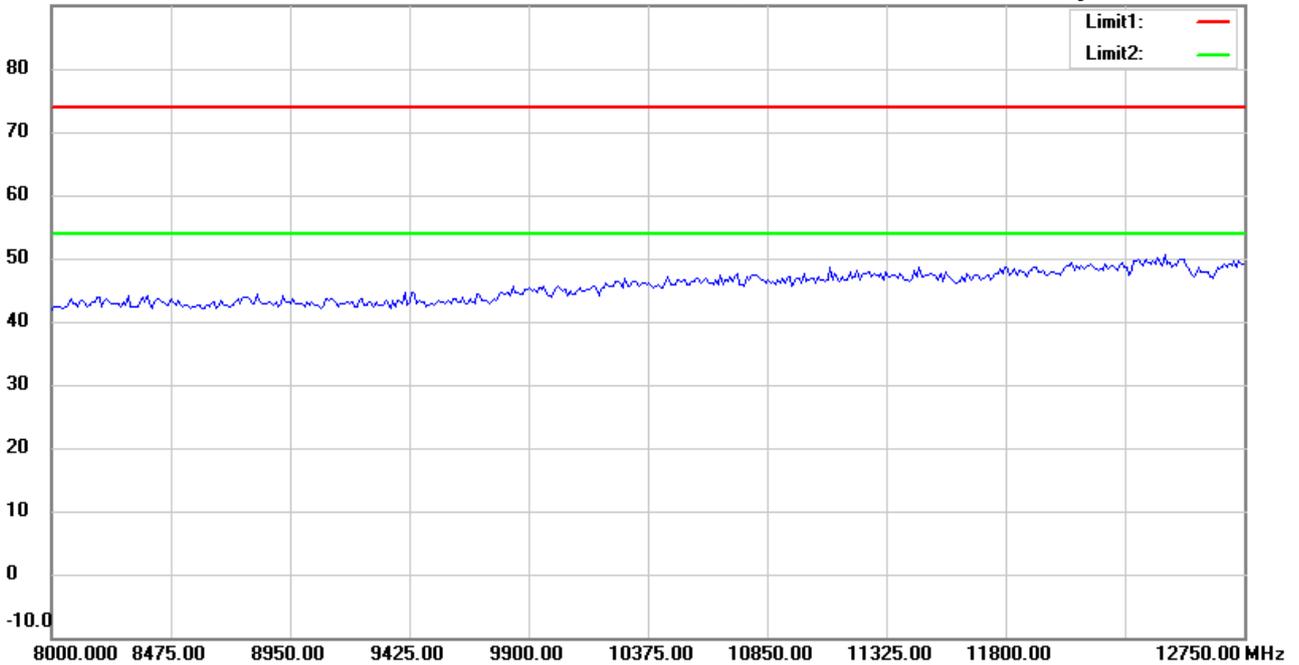
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:41:41 AM

Humidity:56.2 %



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 915MHz

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: Sky

File :3

Data :#7

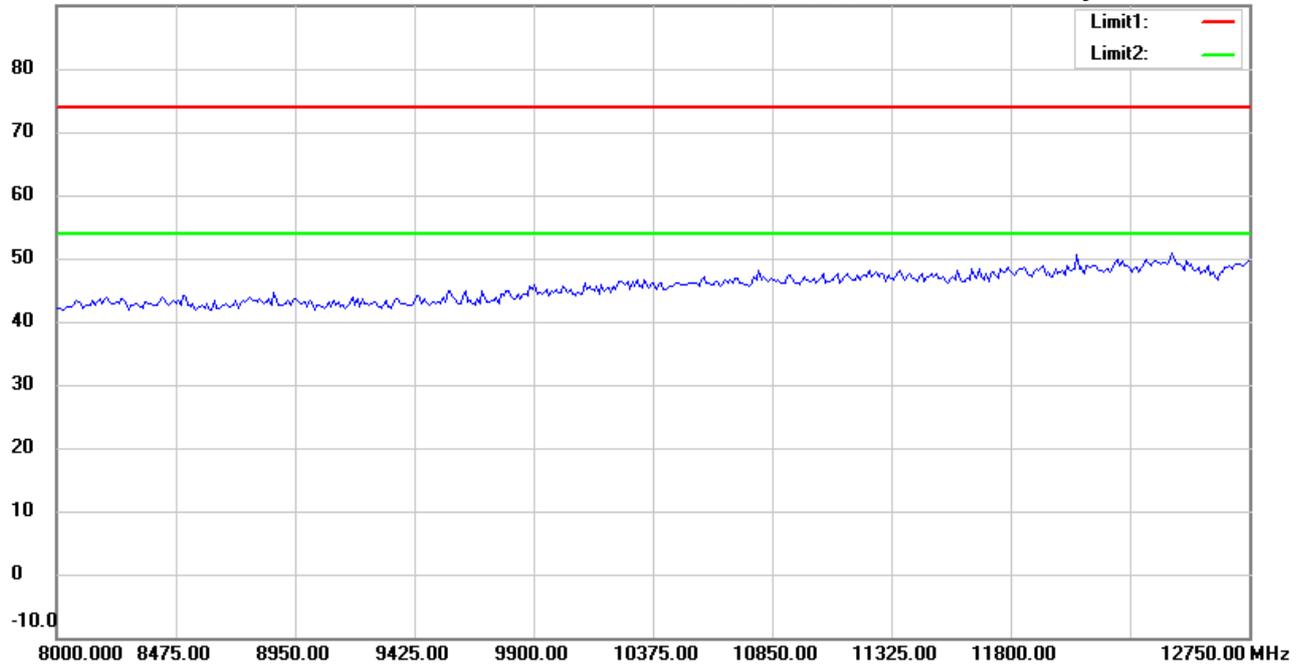
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:45:36 AM

Humidity:56.2 %



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 915MHz

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: Sky

File :1

Data :#1

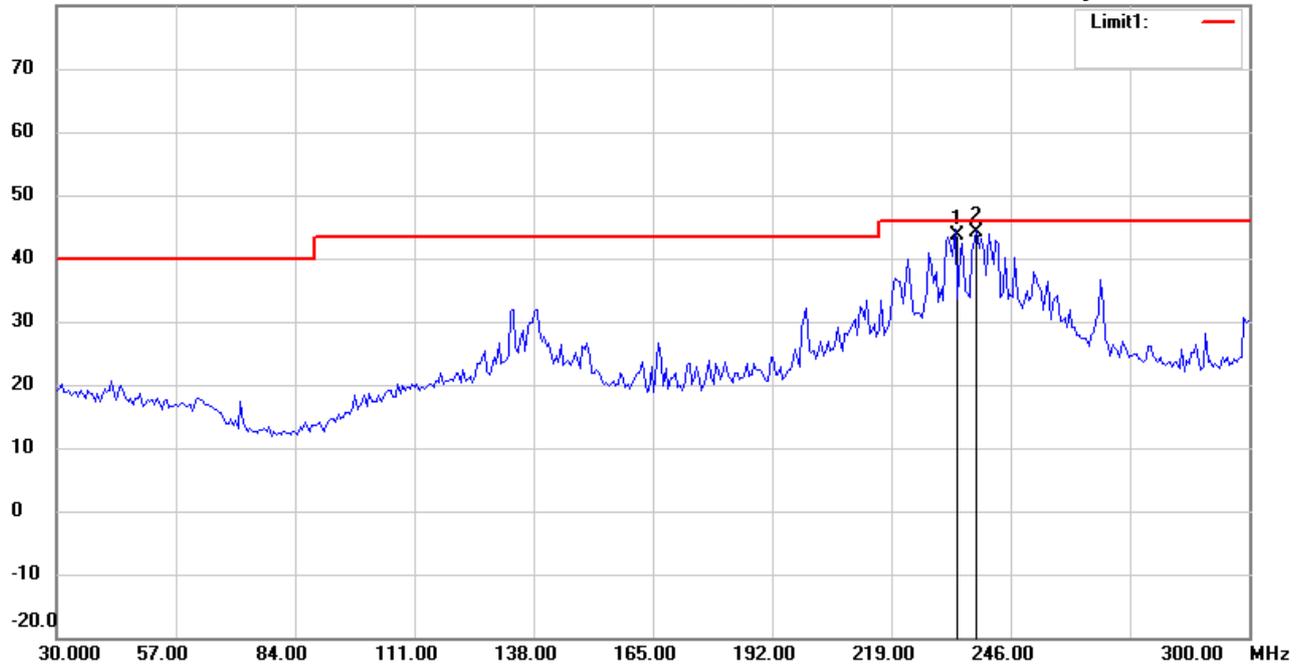
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 2:04:11 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 927.48MHz

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
	233.4470	51.75	QP	-8.24	43.51	46.00	100	240	-2.49	
*	238.3166	52.15	QP	-7.96	44.19	46.00	100	115	-1.81	



Radiated Emission Measurement

Operator: Sky

File :1

Data :#2

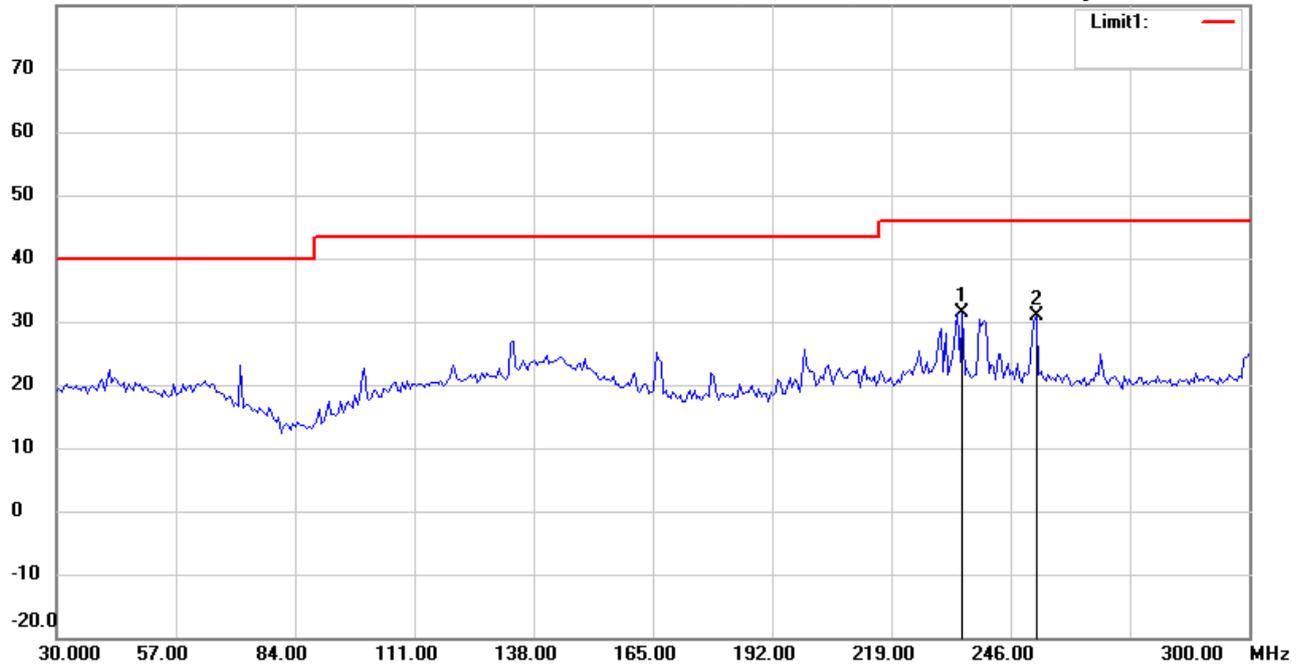
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 2:11:43 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: Vertical

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 927.48MHz

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
*	235.0701	39.56	peak	-8.15	31.41	46.00	100	155	-14.59	
	251.8437	38.16	peak	-7.29	30.87	46.00	100	30	-15.13	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#1

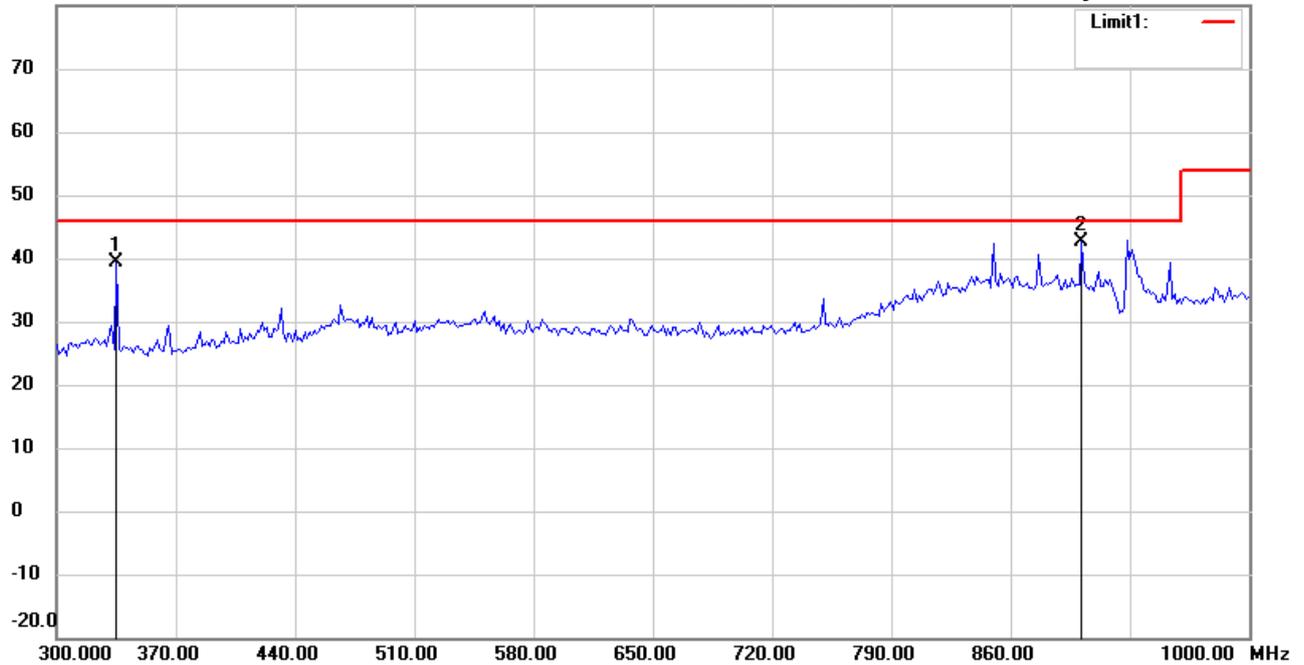
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:51:35 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 927.48MHz

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
	335.0701	44.26	peak	-4.88	39.38	46.00	100	270	-6.62	
*	901.8036	37.75	peak	4.91	42.66	46.00	100	155	-3.34	



Radiated Emission Measurement

Operator: Sky

File :2

Data :#2

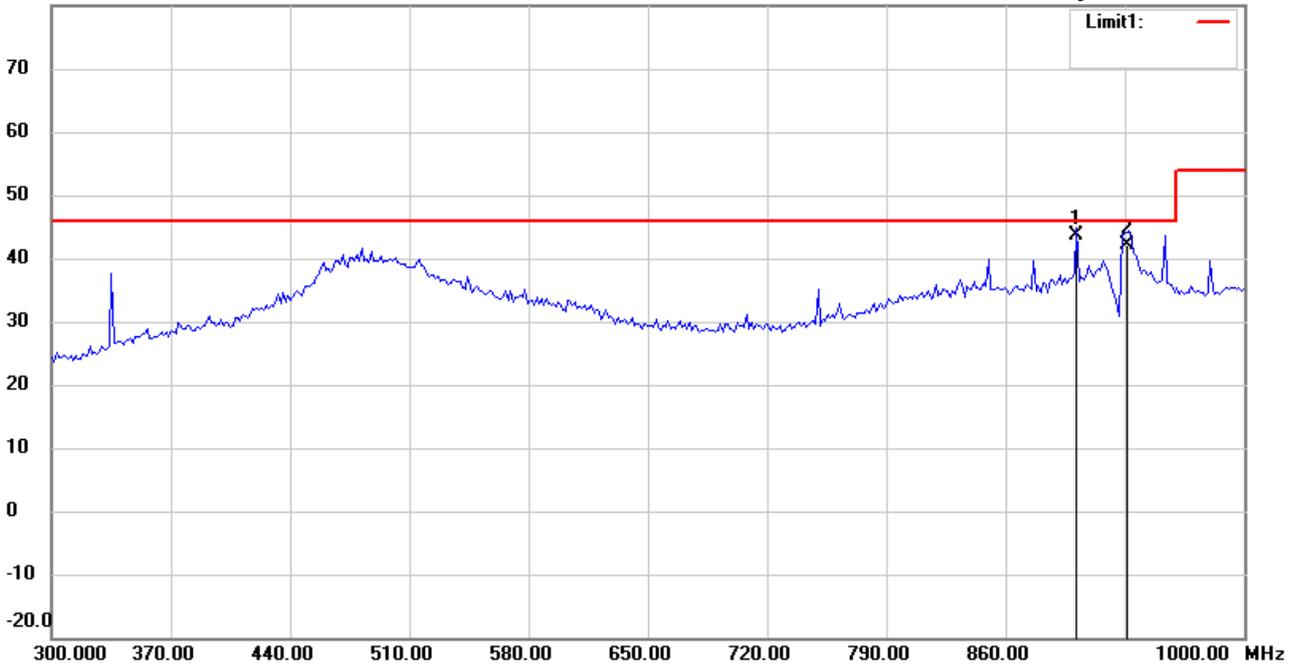
Date: 7/3/2018

Temperature:27.9 °C

80.0 dBuV/m

Time: 1:54:10 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M21804-18010

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 927.48MHz

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
*	901.4792	38.65	QP	4.90	43.55	46.00	100	85	-2.45	
	931.1763	36.80	QP	5.39	42.19	46.00	250	130	-3.81	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#1

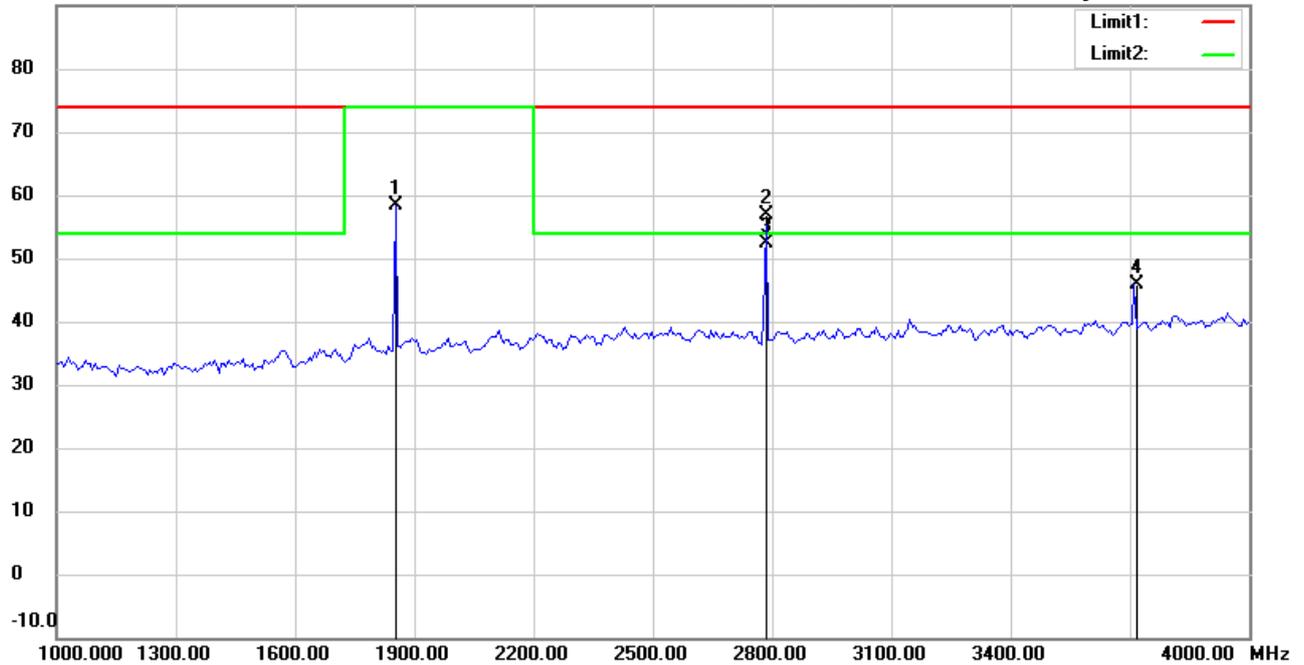
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 9:13:13 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 927.48MHz

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
	1853.707	64.64	peak	-6.28	58.36	74.00	150	175	-15.64	
	2785.571	60.70	peak	-3.86	56.84	74.00	150	235	-17.16	
*	2785.571	56.33	AVG	-3.86	52.47	54.00	150	235	-1.53	
	3711.423	46.92	peak	-1.00	45.92	74.00	150	75	-28.08	



Radiated Emission Measurement

Operator: Sky

File :3

Data :#4

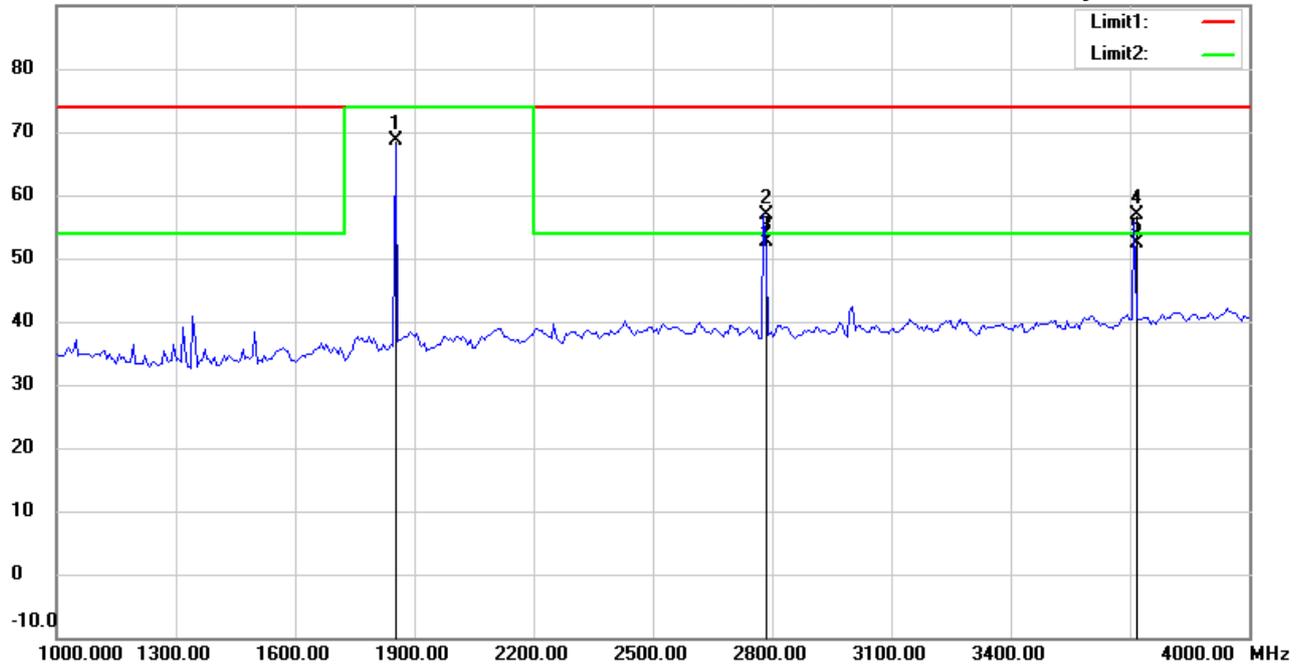
Date: 7/3/2018

Temperature:21.5 °C

90.0 dBuV/m

Time: 9:16:44 AM

Humidity:72.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 927.48MHz

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
	1853.707	74.85	peak	-6.28	68.57	74.00	100	195	-5.43	
	2782.319	60.81	peak	-3.85	56.96	74.00	100	154	-17.04	
*	2782.319	56.41	AVG	-3.85	52.56	54.00	100	154	-1.44	
	3711.423	57.89	peak	-1.00	56.89	74.00	100	175	-17.11	
	3711.423	53.49	AVG	-1.00	52.49	54.00	100	175	-1.51	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

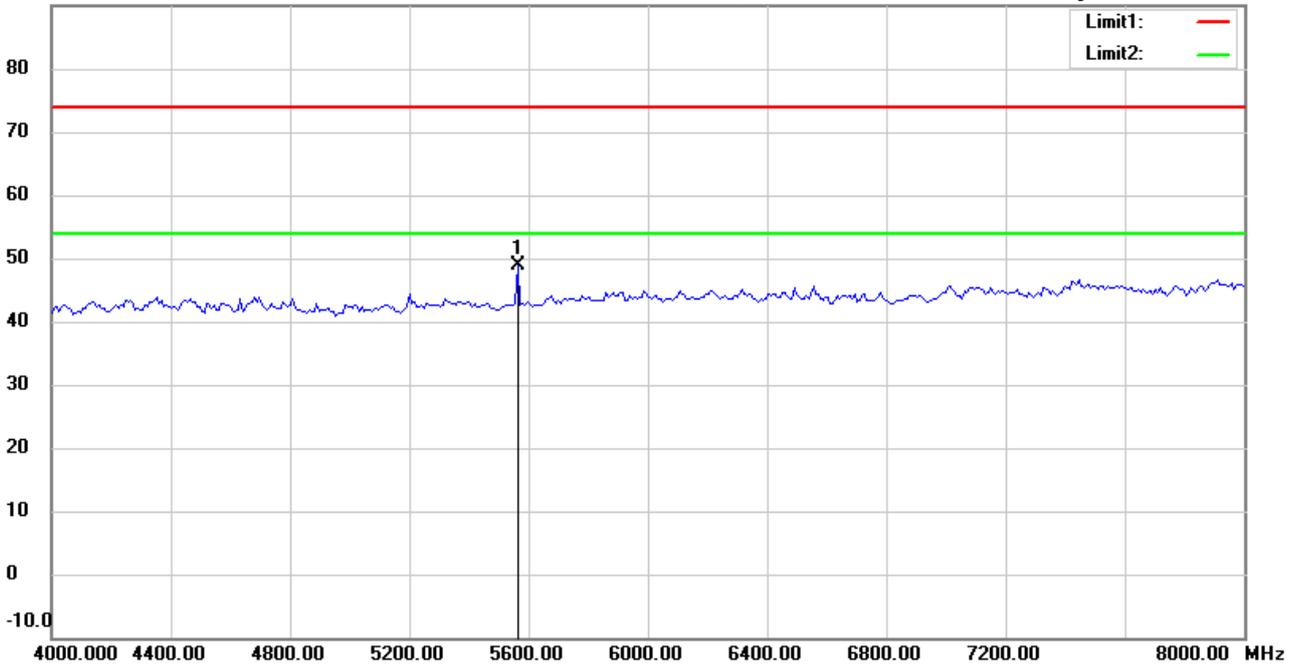
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:14:14 AM

Humidity:56.2 %



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 927.48MHz

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
*	5563.126	46.40	peak	2.38	48.78	74.00	150	230	-25.22	

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



Radiated Emission Measurement

Operator: Sky

File :3

Data :#5

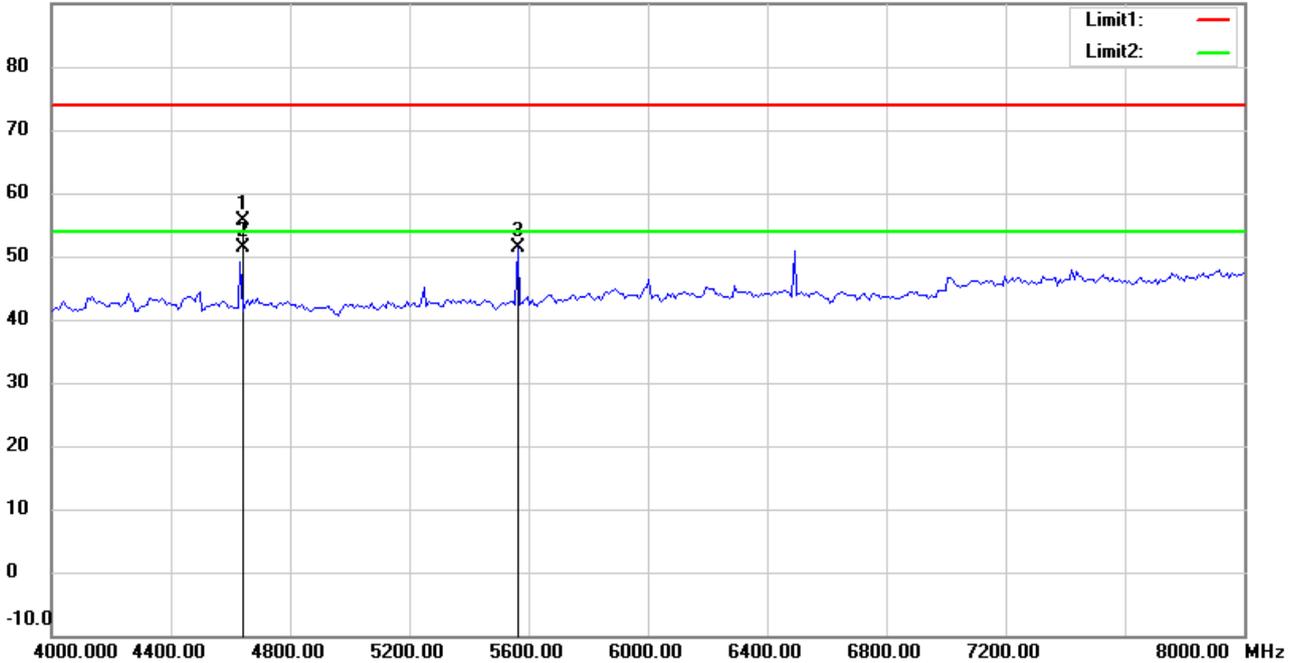
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:17:45 AM

Humidity:56.2 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M21804-18010

M/N:

Test Mode : TX 927.48MHz

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
	4637.329	55.17	peak	0.57	55.74	74.00	150	185	-18.26	
*	4637.329	50.77	AVG	0.57	51.34	54.00	150	185	-2.66	
	5563.126	49.05	peak	2.38	51.43	74.00	150	250	-22.57	



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Radiated Emission Measurement

Operator: Sky

File :3

Data :#3

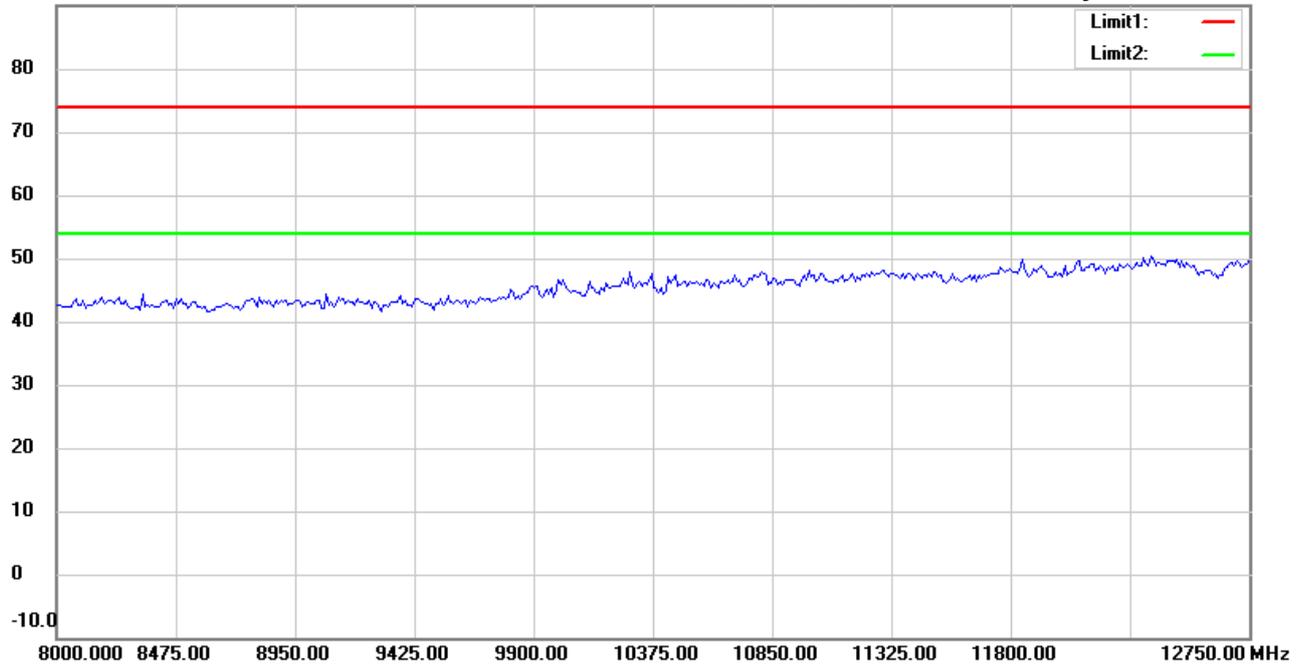
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:15:20 AM

Humidity:56.2 %



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 927.48MHz

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: Sky

File :3

Data :#6

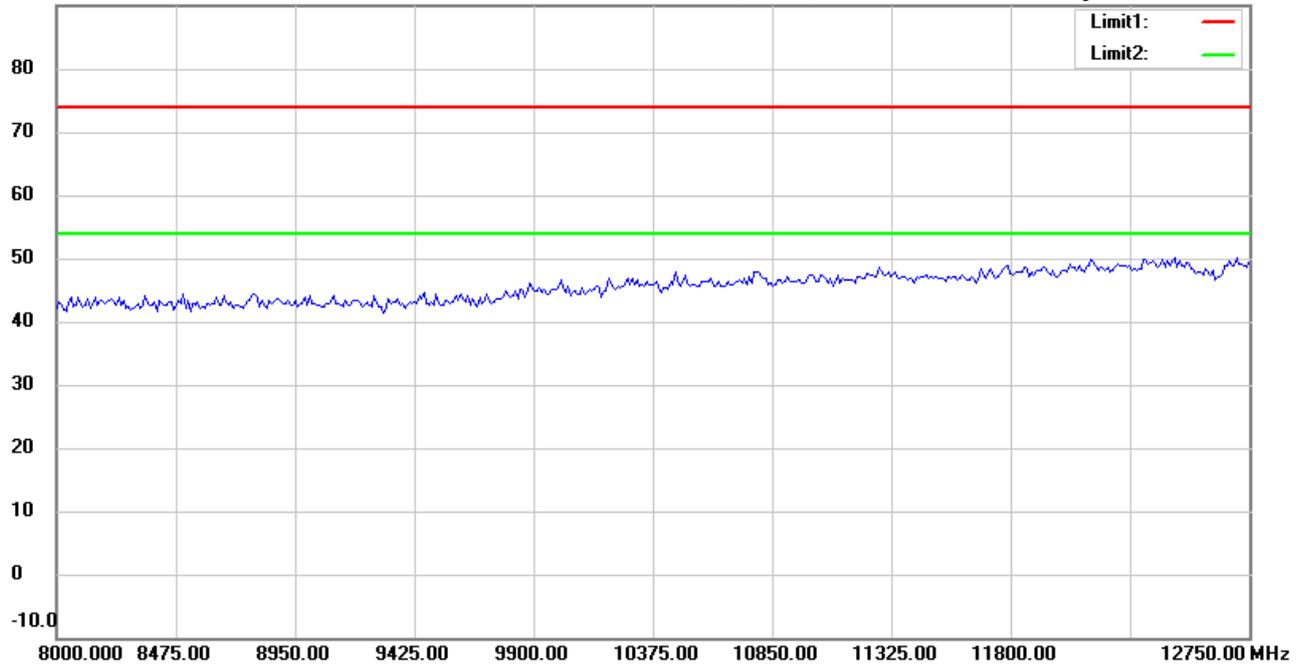
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:18:44 AM

Humidity:56.2 %



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 927.48MHz

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