

FCC PART 90 TEST REPORT

for

Repeater

Model No.: RP-100

FCC ID: NDARP100

of

Applicant: Gold Apollo Co Ltd

Address: Rm 1,3rd Fl., . 77, Sec. 1, Hsin Tai Wu Rd., Hsi-Chih Dist,
New Taipei City, Taiwan, R.O.C. 221

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.: W6M21804-18005-C-1

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

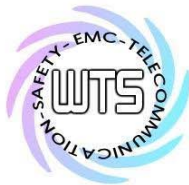
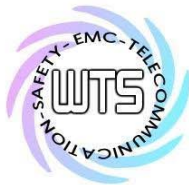


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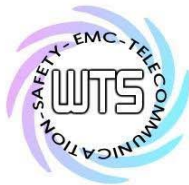
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1. General Information

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.

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Tester:

May 18, 2018

Kent Lin

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 18, 2018

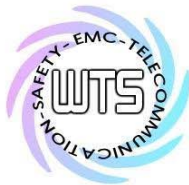
Kevin Wang

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.)

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: Gold Apollo Co Ltd

Street: Rm 1, 3rd Fl., No. 77 Sec. 1 Hsin Tai Wu Rd., Hsi-Chih Dist

City: New Taipei city,

Country: Taiwan, R.O.C. 221

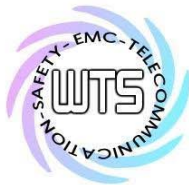
Telephone: +886 2 2698 8888

Fax: +886 2 2698 1750

1.4 Application details

Date of receipt of test item: May 08, 2018

Date of test: from May 09, 2018 to May 17, 2018



Registration number: W6M21804-18005-C-1
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1.5 General information of Test item

Type of test item: Repeater
Model Number: RP-100
Brand Name: Apollo
Multi-listing model number: ./.
Photos: See appendix

Technical data

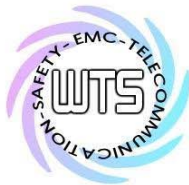
Operating frequency band: 450-470 MHz, 860-872 MHz
Sample tested frequency: 450.0125 MHz, 460 MHz, 469.9875 MHz
860.0125 MHz, 866 MHz, 871.9875 MHz
Channel spacing: 6.25 kHz (for 450-470 MHz), 25 kHz (for 860-872 MHz)
Type of modulation: F3D, F3E
Antenna Type / Gain: Helical Antenna / 0 dBi
Connection of Antenna: ☒ detachable ☐ not detachable
Power Rating: Adaptor (Input: 100-240V~0.2A, 50-60Hz, 12-16VA
Output: 5V, 1A) (for testing)
USB 5Vd.c.
Operation modes: Half-duplex

Manufacturer: (if applicable)

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

1.6 Test standards

Technical standard: FCC RULES PART 90 (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. ☒

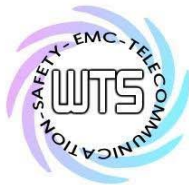
or

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

2.2 Test environment

Temperature: 23 °C
Relative humidity content: 20 ... 75 %
Air pressure: 86-103 KPa

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 Conducted Spurious Emission Measurement Conducted spurious emission 、 Spectrum emission mask	Expanded Uncertainty : 1.01 dB
Estimation Result of Uncertainty of Conducted Spurious Emission Measurement Conducted spurious emission	Expanded Uncertainty : 1.01 dB
Estimation Result of Uncertainty of EIRP Measurement EIRP 、 ERP 、 Output power(dBm) 、 Radiated spurious emission(dBm), Receiver spurious radiations (≥30 MHz)	Expanded Uncertainty : 30-200MHz : 2.32 dB 200-1000MHz : 2.30 dB 1-18GHz : 3.25 dB 18-40GHz : 2.89 dB



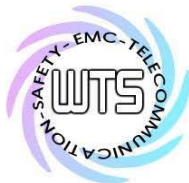
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2.3 Description of Tested System

The EUT was tested with the Accessories or Peripherals Listed below:

Equipment	Model No.	Series No.	Software	Cable information	Note
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

Explanation: The EUT was configured as stand-alone device, and there are no accessories or peripherals during the test.



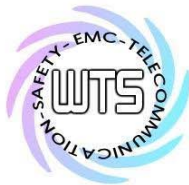
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2.4 Test Equipment List

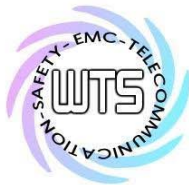
No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2017/5/26	2018/5/25
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2017/10/26	2018/10/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2017/8/22	2018/8/21
ETSTW-CE 008	HF-EICHELITUNG 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	2017/7/11	2018/7/10
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2017/5/26	2018/5/25
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/9	2019/5/8
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	2017/7/4	2018/7/3
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2017/7/3	2018/7/2
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	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2018/1/15	2019/1/14



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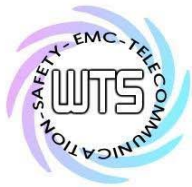
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2017/5/26	2018/5/25
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2017/8/9	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	2018/5/9	2019/5/8
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.	2017/7/3	2018/7/2
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	2018/5/9	2019/5/8
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	2018/2/21	2019/2/20
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29



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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	2018/2/21	2019/2/20
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	



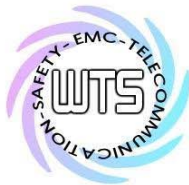
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2.5 General Test Procedure

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

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

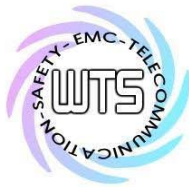


Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

3. Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Modulation Characteristics	2.1047(a) (b); 2.1033(c)	☐	☐	☐
Necessary Bandwidth	90.209	☒	☒	☐
Frequency stability	90.213	☒	☒	☐
Transmitter Output Power	90.205	☒	☒	☐
Emission masks	90.210	☒	☒	☐
Transmitter Spurious Radiated Emission	90.210	☒	☒	☐
Transmitter Spurious Conducted Emission	90.210	☒	☒	☐
Transient frequency behavior	90.214	☐	☐	☐
Receiver Radiated Spurious Emission	FCC part 15B	☐	☐	☐

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4. Modulation Characteristics

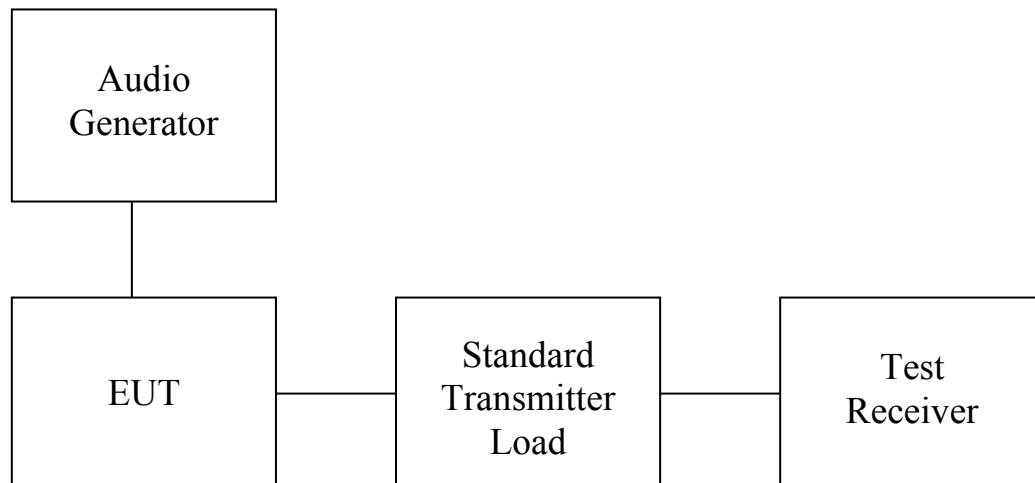
4.1 Test procedure

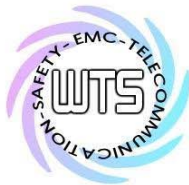
Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

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

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

4.2 Test Setup





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FCC ID: NDARP100

4.3 Test results

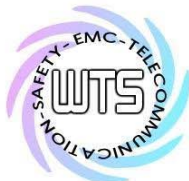
4.3.1 Audio Frequency Response

Rule Part No.: Part 2.1047(a)(b) Method of Measurement: The audio frequency response was measured in accordance with TIA/EIA Specification 603 with no exception. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 300 – 3000Hz shall be submitted. The audio frequency response curve is shown below.

Test Audio level (1kHz and 20% max. deviation): 25mV

Test equipment used: ETSTW-RE 072

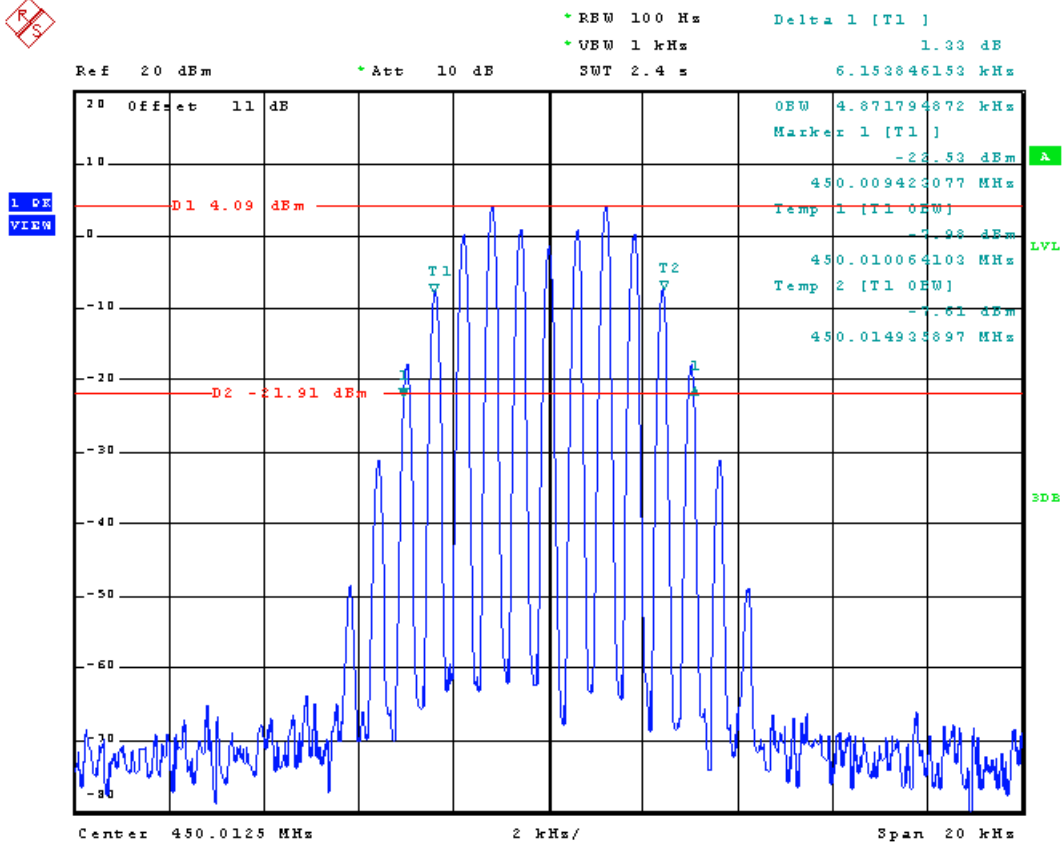
Explanation: The EUT belongs to digital device so this test is not required.



Registration number: W6M21804-18005-C-1

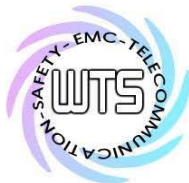
FCC ID: NDARP100

4.3.2 Necessary Bandwidth



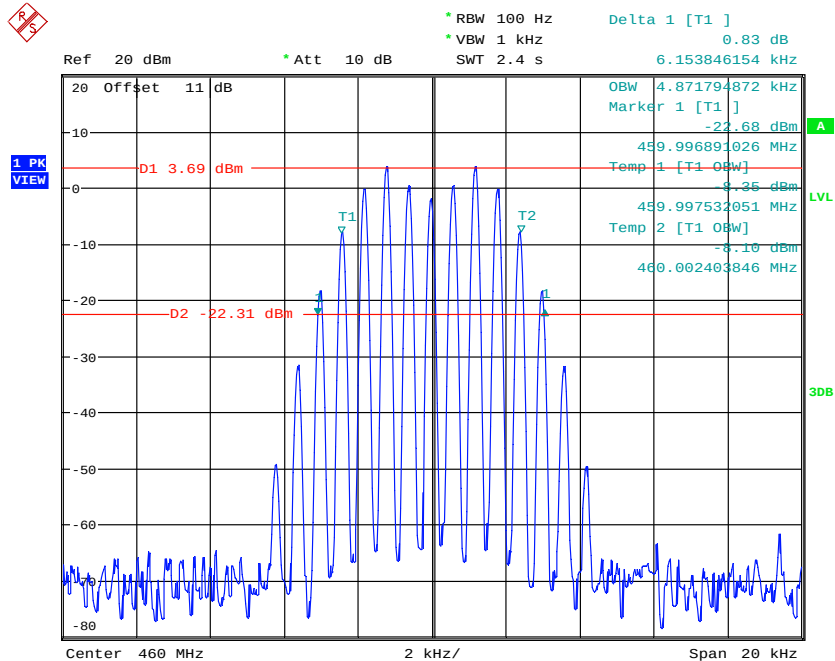
NECESSARY BANDWIDTH 450.0125MHz

Date: 9.MAY.2018 20:21:21



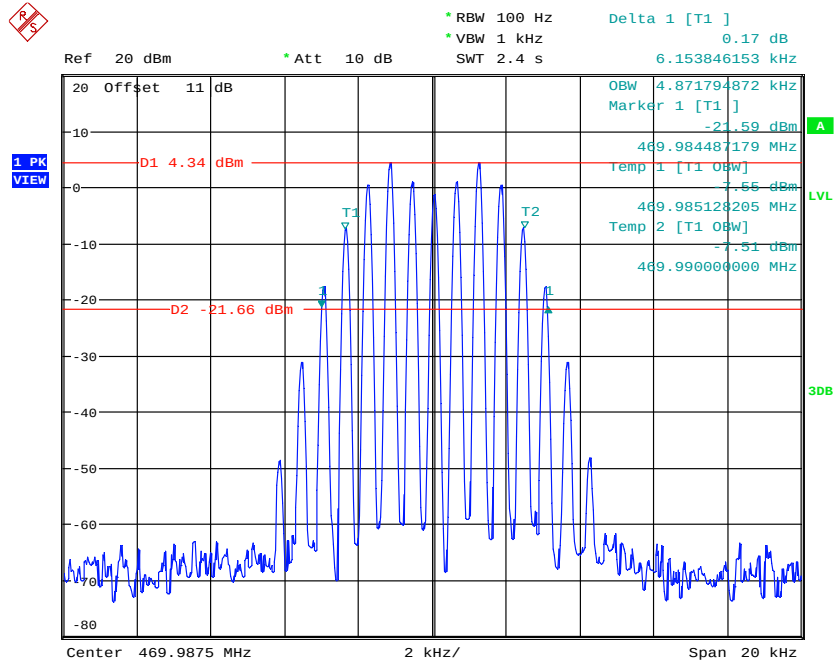
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



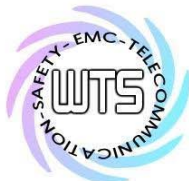
NECESSARY BANDWIDTH 460MHz

Date: 9.MAY.2018 20:30:13



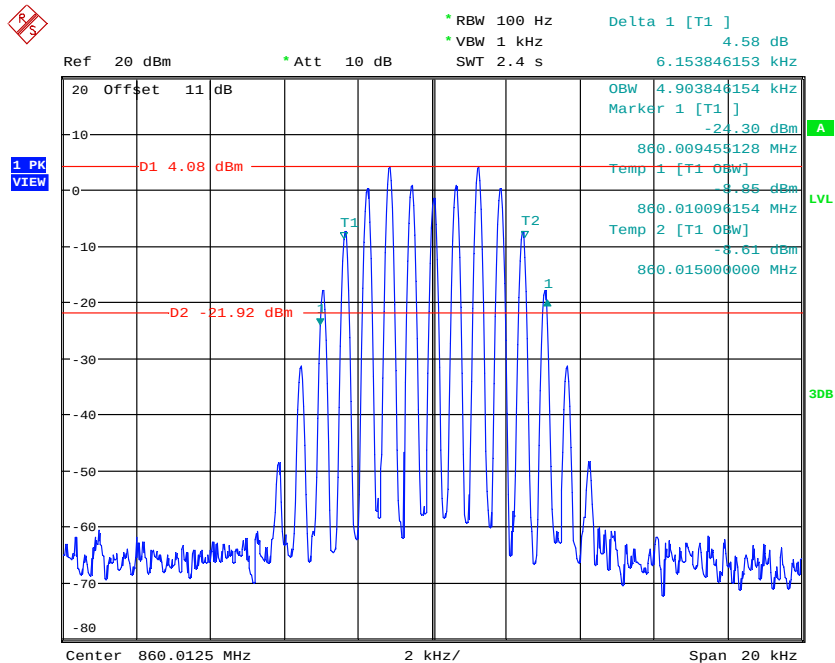
NECESSARY BANDWIDTH 469.9875MHz

Date: 9.MAY.2018 20:32:08



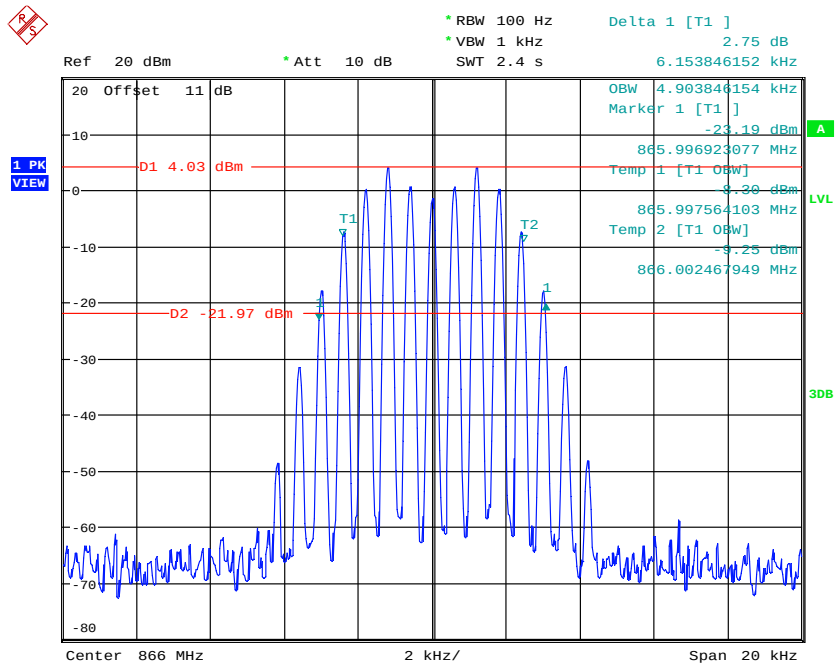
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



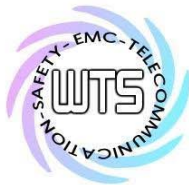
NECESSARY BANDWIDTH 860.0125MHz

Date: 9.MAY.2018 20:43:02

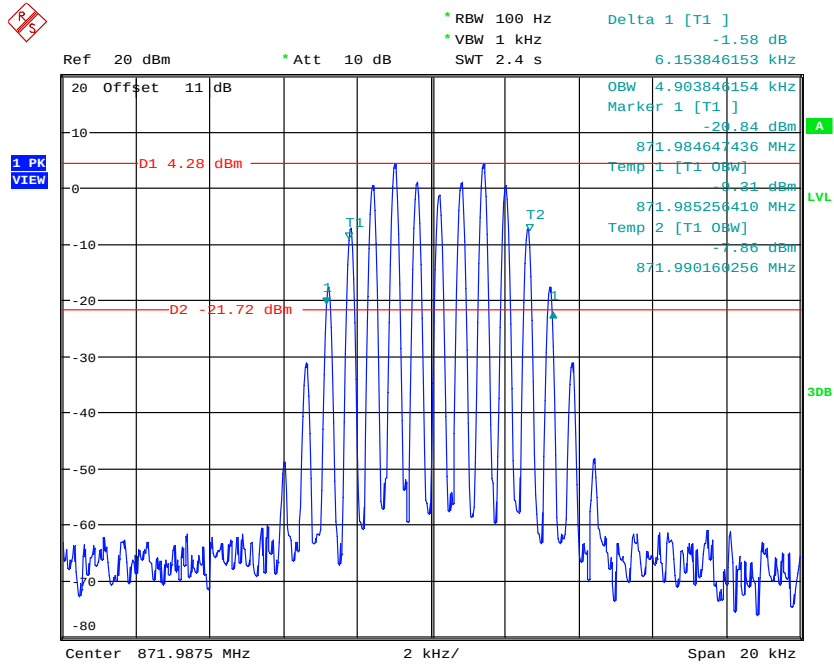


NECESSARY BANDWIDTH 866MHz

Date: 9.MAY.2018 20:44:45



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



NECESSARY BANDWIDTH 871.9875MHz

Date: 9.MAY.2018 20:46:34

Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Max. Limit (kHz)
450.0125	6.15385	4.87179	11.25
460	6.15385	4.87179	11.25
469.9875	6.15385	4.87179	11.25
860.0125	6.15385	4.90385	20
866	6.15385	4.90385	20
871.9875	6.15385	4.90385	20

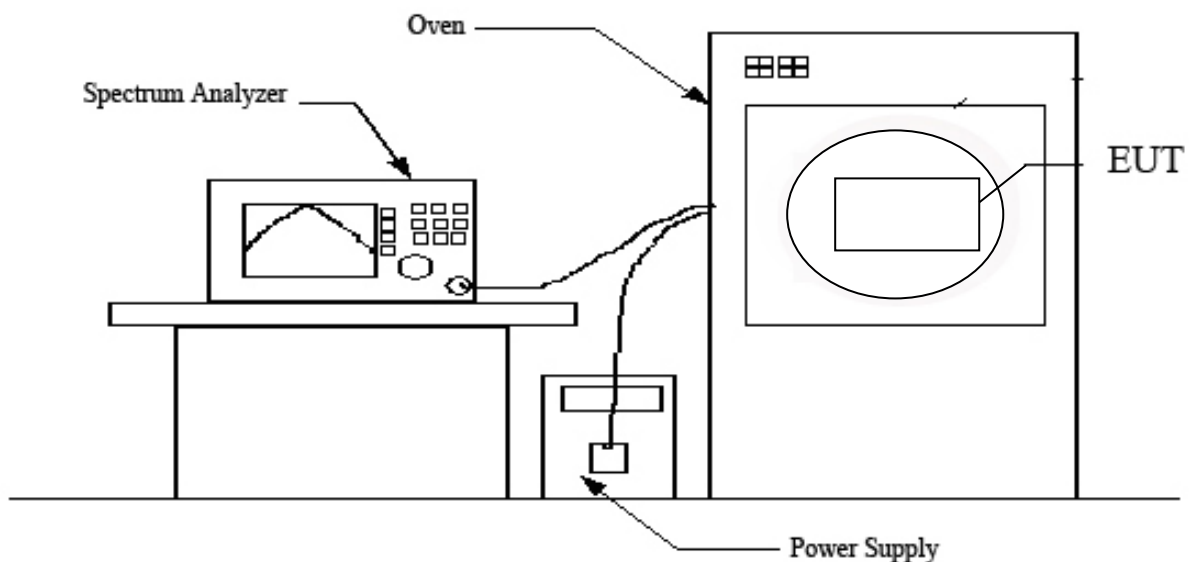
Test equipment used: ETSTW-RE 055, ETSTW-RE072

5. Frequency stability

5.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 100Hz and VBW to 1kHz.
3. Use peak detector mode, Max-hold and search the peak of trace 1.
4. According to the part 2.1055(d)(1), the supply voltage has to be changed from 85 to 115 percent of the nominal value.
5. According to the part 2.1055(a)(1), extreme temperature has to be changed from -20°C to 50°C.
6. Read the frequency of the carrier and calculate the deviation.

5.2 Test Setup





Registration number: W6M21804-18005-C-1

FCC ID: NDARP100

5.3 Test Result

Nominal Frequency : 450.0125MHz		Nominal Frequency : 460MHz		Nominal Frequency : 469.9875MHz	
Voltage V.S Frequency Stability		Voltage V.S Frequency Stability		Voltage V.S Frequency Stability	
Voltage	Measurement Frequency	Voltage	Measurement Frequency	Voltage	Measurement Frequency
4.5 V	450.012516	4.5 V	459.999991	4.5 V	469.987571
5 V	450.012516	5 V	459.999991	5 V	469.987571
5.5 V	450.012516	5.5 V	459.999991	5.5 V	469.987571
Max Deviation (MHz)	0.000016	Max Deviation (MHz)	-0.000009	Max Deviation (MHz)	0.000071
Max Deviation (ppm)	0.035555	Max Deviation (ppm)	-0.019565	Max Deviation (ppm)	0.151068
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5

Temperature V.S Frequency Stability		Temperature V.S Frequency Stability		Temperature V.S Frequency Stability	
Temperature	Measurement Frequency	Temperature	Measurement Frequency	Temperature	Measurement Frequency
-20	450.012511	-20	460.000021	-20	469.987594
-10	450.012513	-10	460.000081	-10	469.987611
0	450.012571	0	460.000092	0	469.987637
10	450.012566	10	460.000038	10	469.987594
20	450.012526	20	459.999991	20	469.987573
30	450.012558	30	460.000048	30	469.987619
40	450.012488	40	459.999968	40	469.987554
50	450.012451	50	459.999946	50	469.987516
60	450.012433	60	459.999963	60	469.987503
Max Deviation (MHz)	0.000071	Max Deviation (MHz)	0.000092	Max Deviation (MHz)	0.000137
Max Deviation (ppm)	0.157773	Max Deviation (ppm)	0.200000	Max Deviation (ppm)	0.291497
Limit (ppm)	2.5	Limit (ppm)	2.5	Limit (ppm)	2.5



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1

FCC ID: NDARP100

Nominal Frequency : 860.0125MHz		Nominal Frequency : 866MHz		Nominal Frequency : 871.9875MHz	
Voltage V.S Frequency Stability		Voltage V.S Frequency Stability		Voltage V.S Frequency Stability	
Voltage	Measurement Frequency	Voltage	Measurement Frequency	Voltage	Measurement Frequency
4.5 V	860.012556	4.5 V	866.000013	4.5 V	871.987713
5 V	860.012556	5 V	866.000013	5 V	871.987713
5.5 V	860.012556	5.5 V	866.000013	5.5 V	871.987713
Max Deviation (MHz)	0.000056	Max Deviation (MHz)	0.000013	Max Deviation (MHz)	0.000213
Max Deviation (ppm)	0.065115	Max Deviation (ppm)	0.015012	Max Deviation (ppm)	0.244270
Limit (ppm)	1.5	Limit (ppm)	1.5	Limit (ppm)	1.5

Temperature V.S Frequency Stability		Temperature V.S Frequency Stability		Temperature V.S Frequency Stability	
Temperature	Measurement Frequency	Temperature	Measurement Frequency	Temperature	Measurement Frequency
-20	860.012506	-20	865.999873	-20	871.987869
-10	860.012548	-10	865.999868	-10	871.987854
0	860.012652	0	866.000053	0	871.987868
10	860.012584	10	866.000036	10	871.987718
20	860.012556	20	866.000020	20	871.987733
30	860.012616	30	866.000054	30	871.987789
40	860.012504	40	865.999993	40	871.987693
50	860.012445	50	865.999963	50	871.987769
60	860.012408	60	865.999943	60	871.987778
Max Deviation (MHz)	0.000152	Max Deviation (MHz)	-0.000057	Max Deviation (MHz)	0.000369
Max Deviation (ppm)	0.176742	Max Deviation (ppm)	-0.065820	Max Deviation (ppm)	0.423171
Limit (ppm)	1.5	Limit (ppm)	1.5	Limit (ppm)	1.5

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

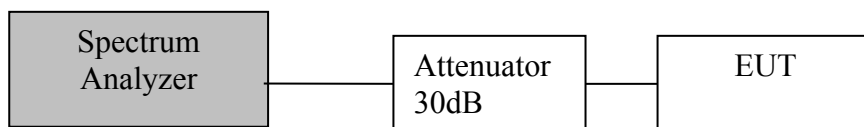
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

6. Transmitter Output Power

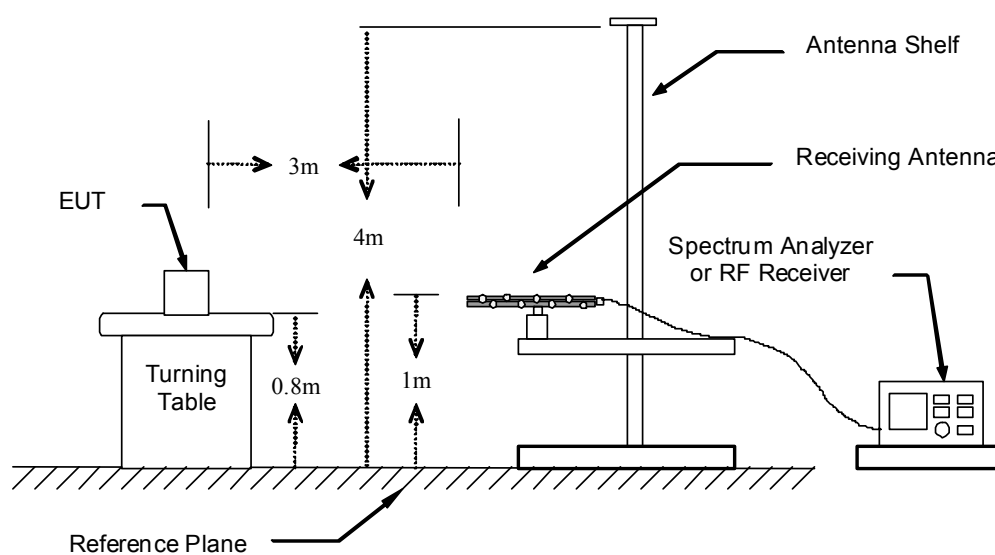
6.1 Test Procedures

1. The EUT was placed on the top of the turntable in semi-anechoic chamber.
2. The test shall be made in the transmitting mode. Antenna tower was scan (from 1 M to 4 M) and the turn table was rotated by 360 degrees to determine the position of the highest radiation.
3. The receiving Horn antenna was placed 0.5 meters far away from the turntable.
4. The receiving antenna was fixed on the same height with the EUT to find maximum suspected emissions. Recorded suspected value is indicated as Read Level (Raw).
5. Replace the EUT by standard antenna and feed the RF port by signal generator.
6. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
7. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
8. The level of the spurious emission is the power level of (7) plus the gain of the standard antenna in dBd and minus the loss of the cable used between the signal generator and the standard antenna.

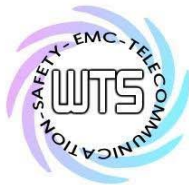
6.2 Test Setup



Setup for Conducted Power



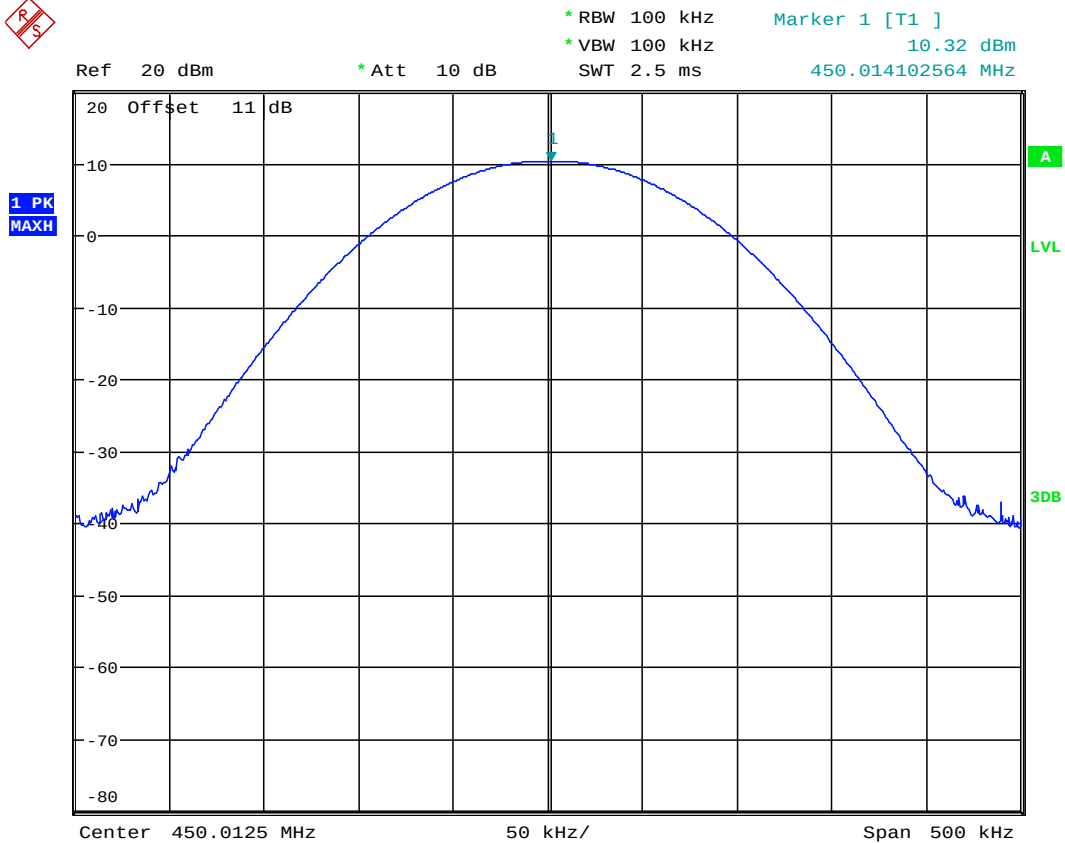
Setup for Radiated Power



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

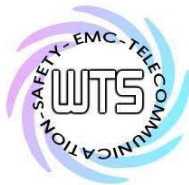
6.3 Test Result

6.3.1 Conducted Power



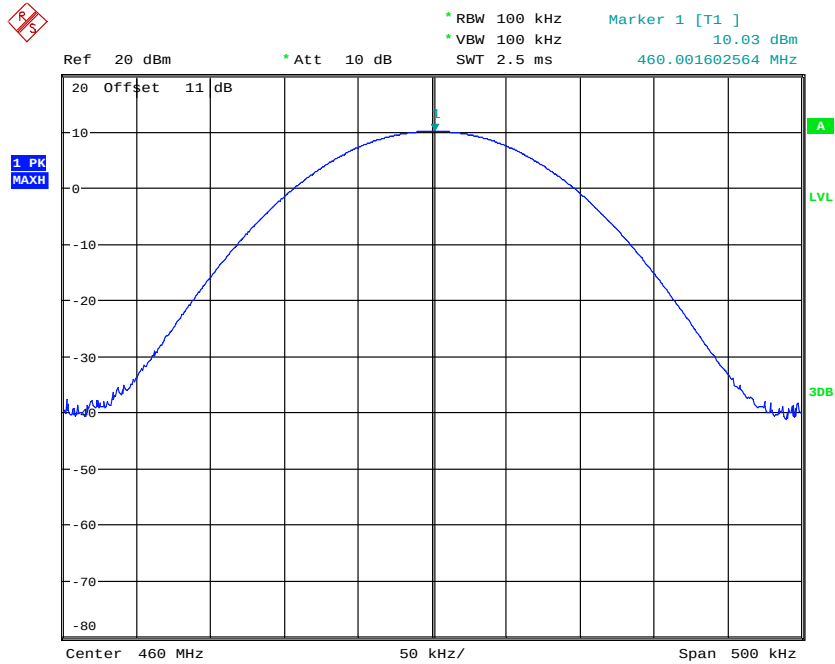
MAX OUTPUT POWER 450.0125MHz

Date: 9.MAY.2018 21:12:15

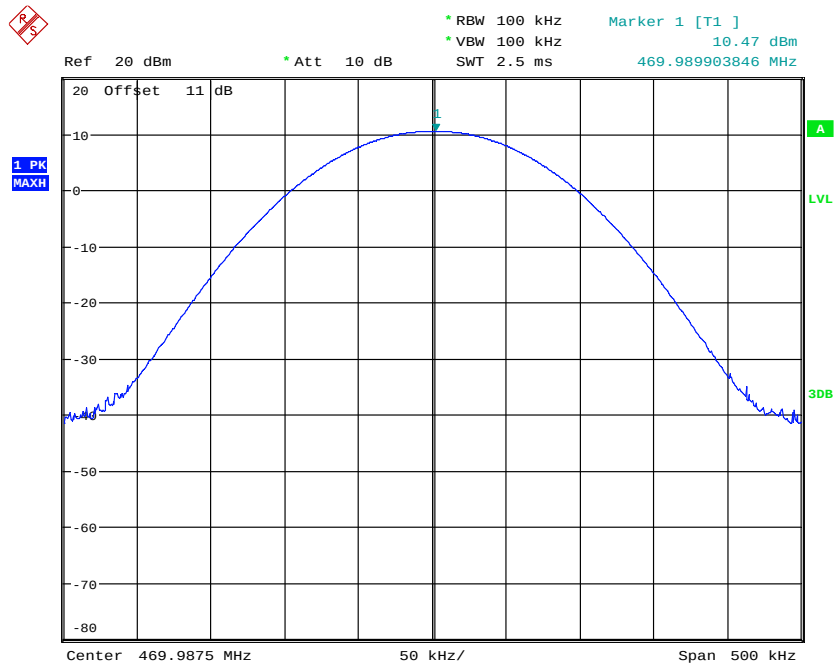


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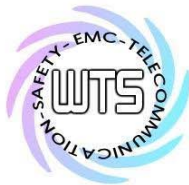
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



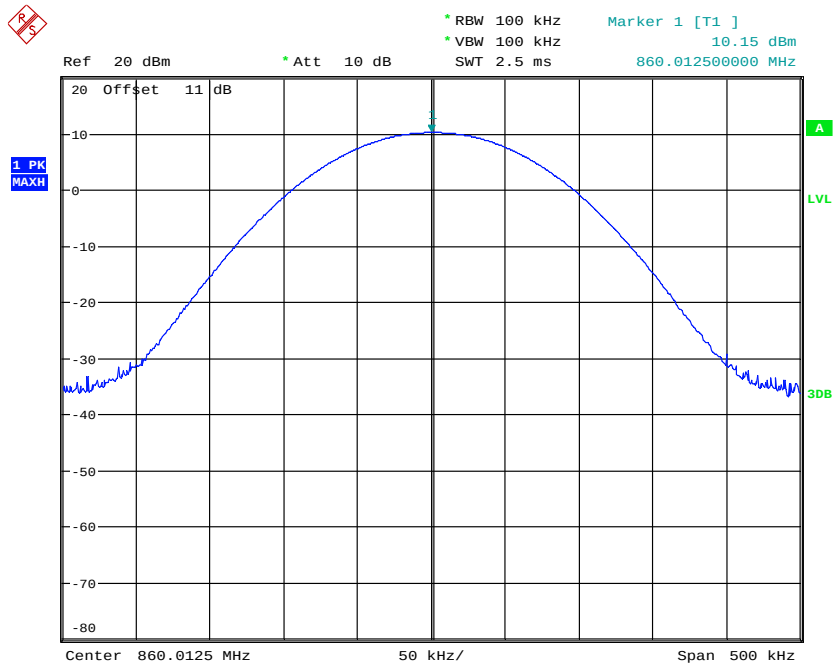
MAX OUTPUT POWER 460MHz
Date: 9.MAY.2018 21:11:23



MAX OUTPUT POWER 469.9875MHz
Date: 9.MAY.2018 21:10:36

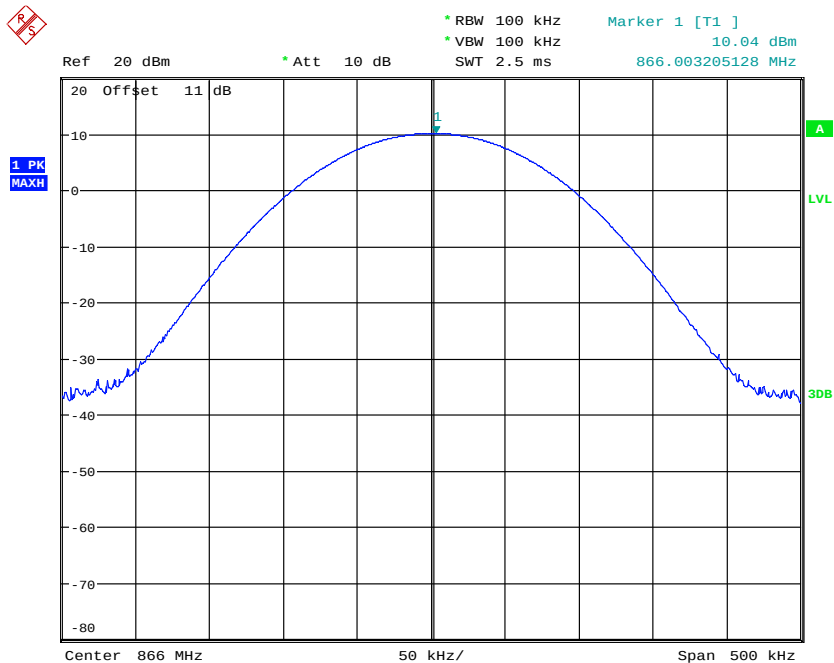


Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



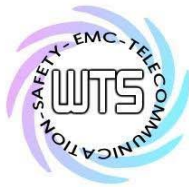
MAX OUTPUT POWER 860.0125MHz

Date: 9.MAY.2018 21:09:29

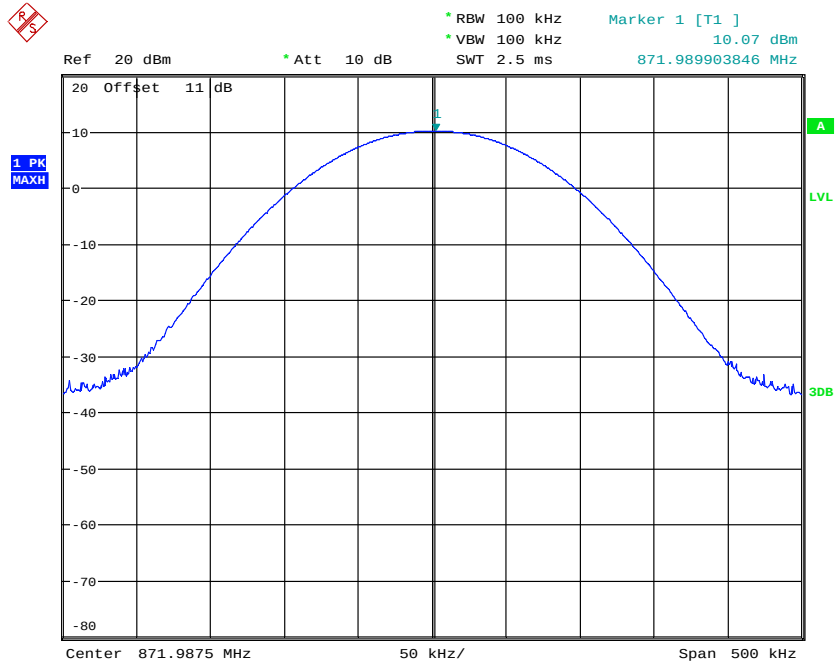


MAX OUTPUT POWER 866MHz

Date: 9.MAY.2018 21:08:19

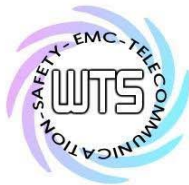


Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



MAX OUTPUT POWER 871.9875MHZ

Date: 9.MAY.2018 21:07:10



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

6.3.2 Radiated Power

Radiated Emission Measurement

Operator: Kent

File :450

Data :#1

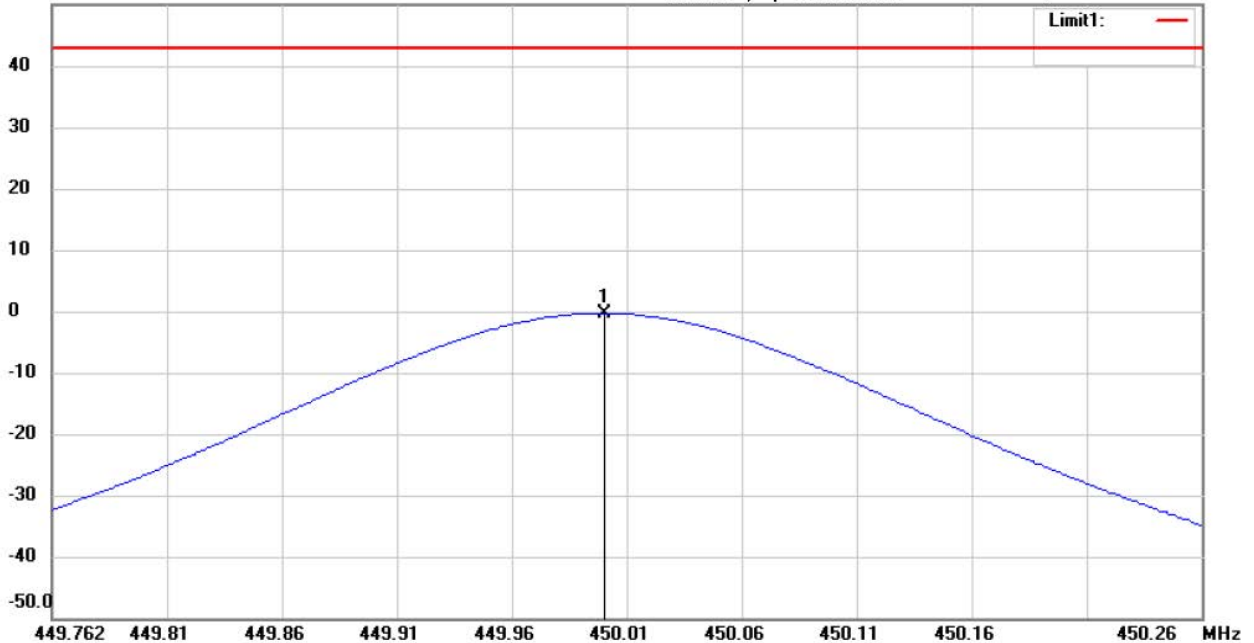
Date: 2018/5/8

Temperature:24 °C

50.0 dBm

Time: 下午 08:37:49

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

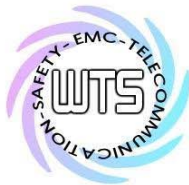
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.0020	-31.21	peak	30.91	-0.30	43.00	150	105	-43.30	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :450

Data :#2

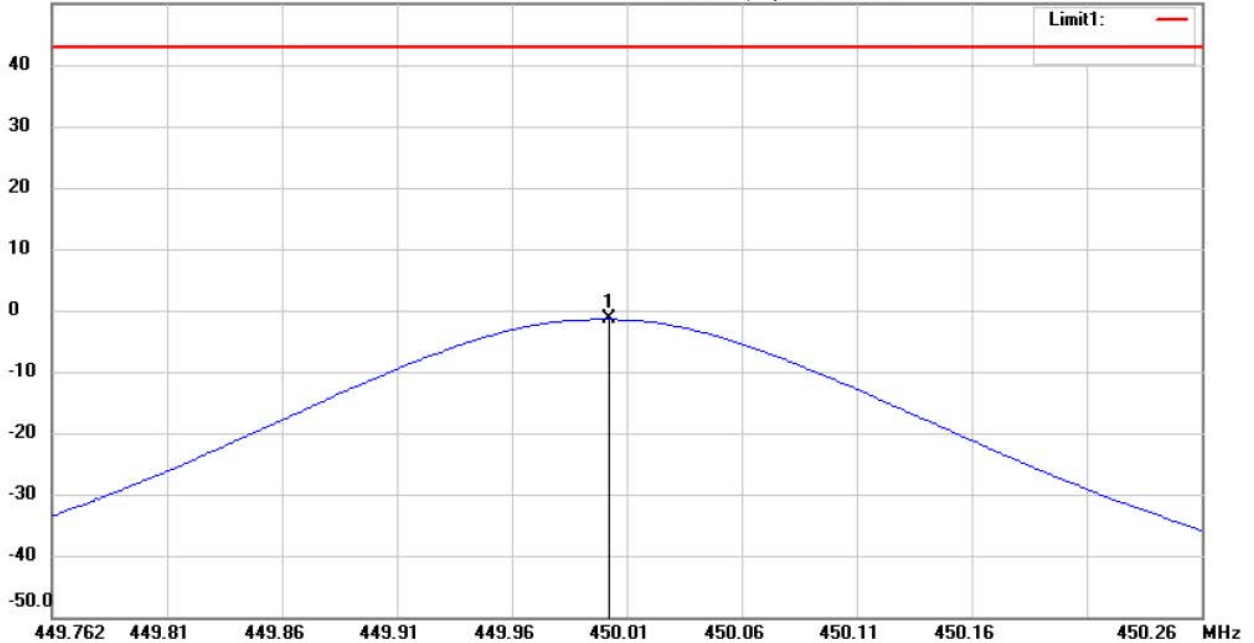
Date: 2018/5/8

Temperature:24 °C

Time: 下午 08:41:30

Humidity:60 %

50.0 dBm



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

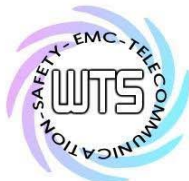
Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.0040	-29.83	peak	28.38	-1.45	43.00	150	330	-44.45	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1

FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :460MHz

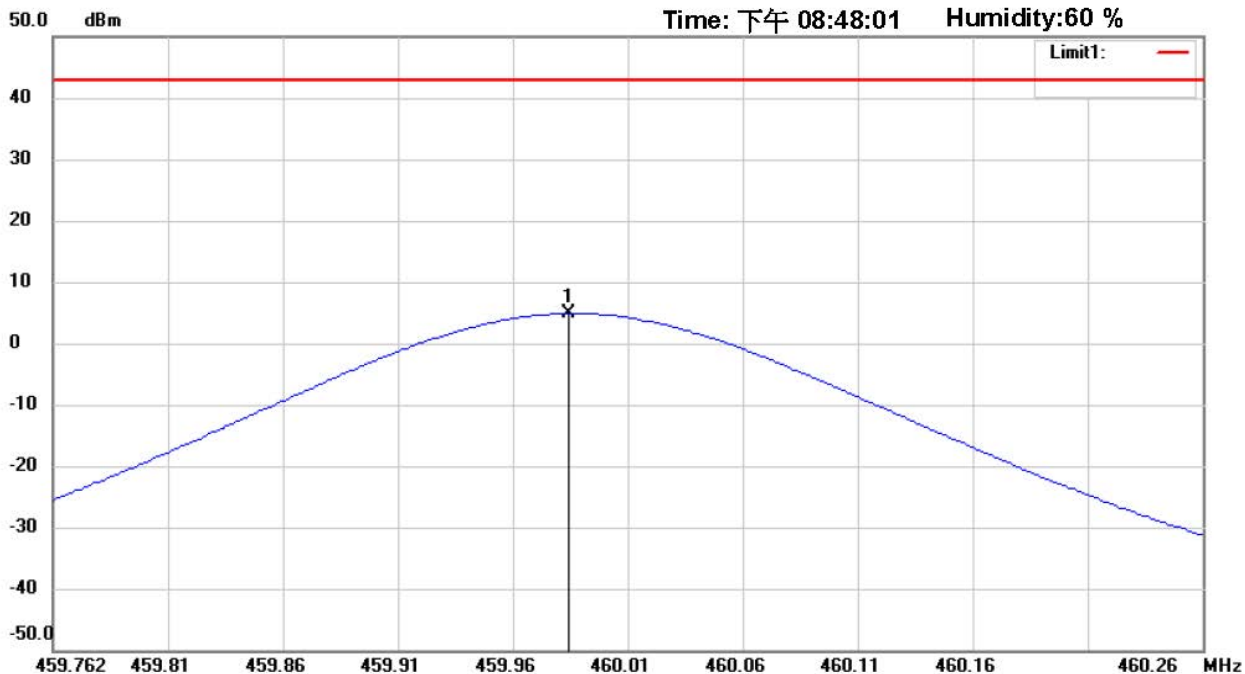
Data :#1

Date: 2018/5/8

Temperature:24 °C

Time: 下午 08:48:01

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

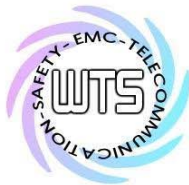
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	459.9860	-25.99	peak	30.89	4.90	43.00	150	305	-38.10	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :460MHz

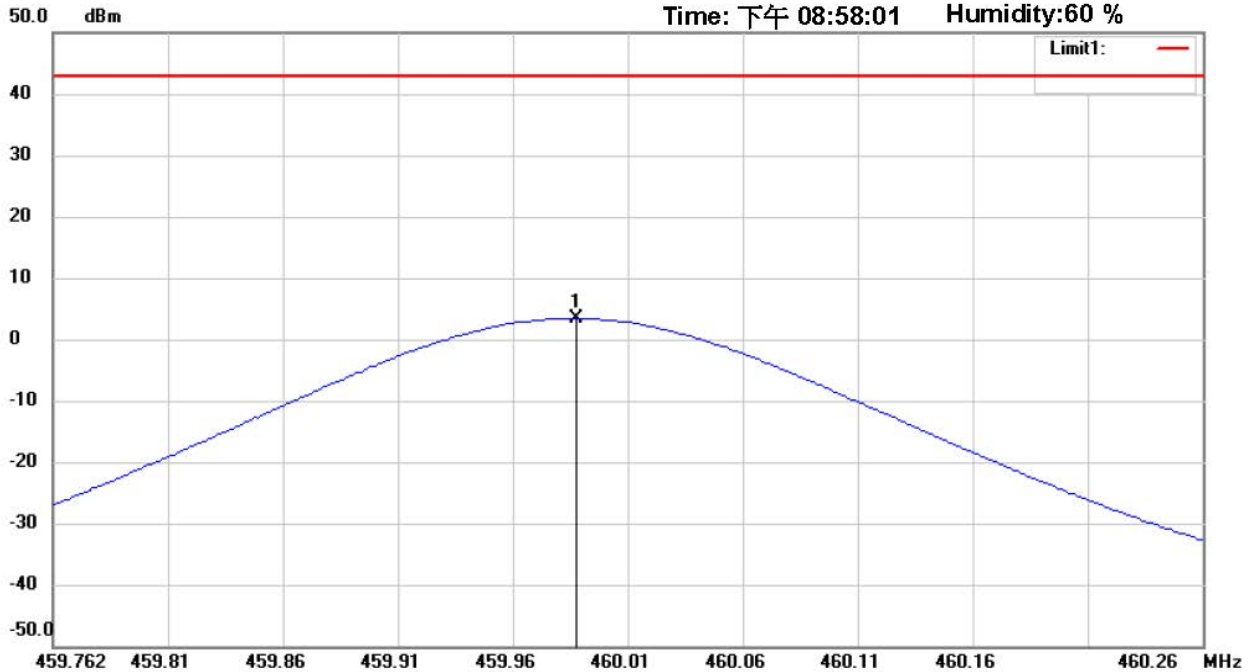
Data :#2

Date: 2018/5/8

Temperature:24 °C

Time: 下午 08:58:01

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

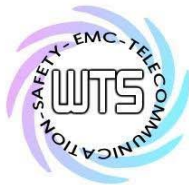
Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	459.9890	-25.44	peak	28.83	3.39	43.00	150	195	-39.61	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :469

Data :#1

Date: 2018/5/8

Temperature:24 °C

Time: 下午 09:01:23

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

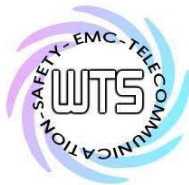
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	469.9710	-29.26	peak	30.88	1.62	43.00	150	225	-41.38	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :469

Data :#2

Date: 2018/5/8

Temperature:24 °C

50.0 dBm

Time: 下午 09:06:00

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

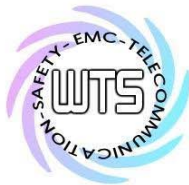
Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	469.9730	-24.66	peak	29.27	4.61	43.00	150	205	-38.39	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :860

Data :#1

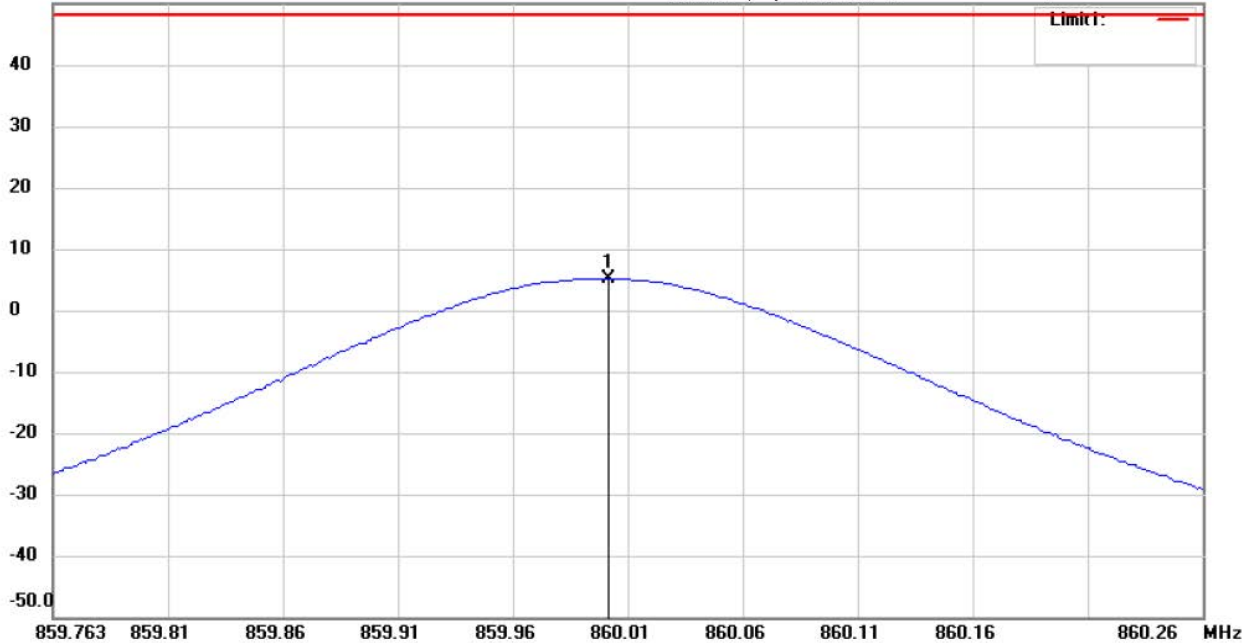
Date: 2018/5/8

Temperature:24 °C

50.0 dBm

Time: 下午 09:11:25

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

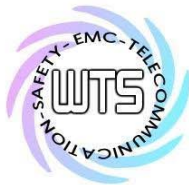
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	860.0040	-29.59	peak	34.77	5.18	48.12	150	175	-42.94	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :860

Data :#2

Date: 2018/5/8

Temperature:24 °C

50.0 dBm

Time: 下午 09:12:48

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

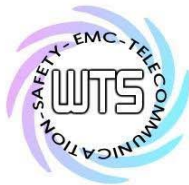
Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	860.0010	-26.15	peak	34.54	8.39	48.12	150	300	-39.73	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :866MHz

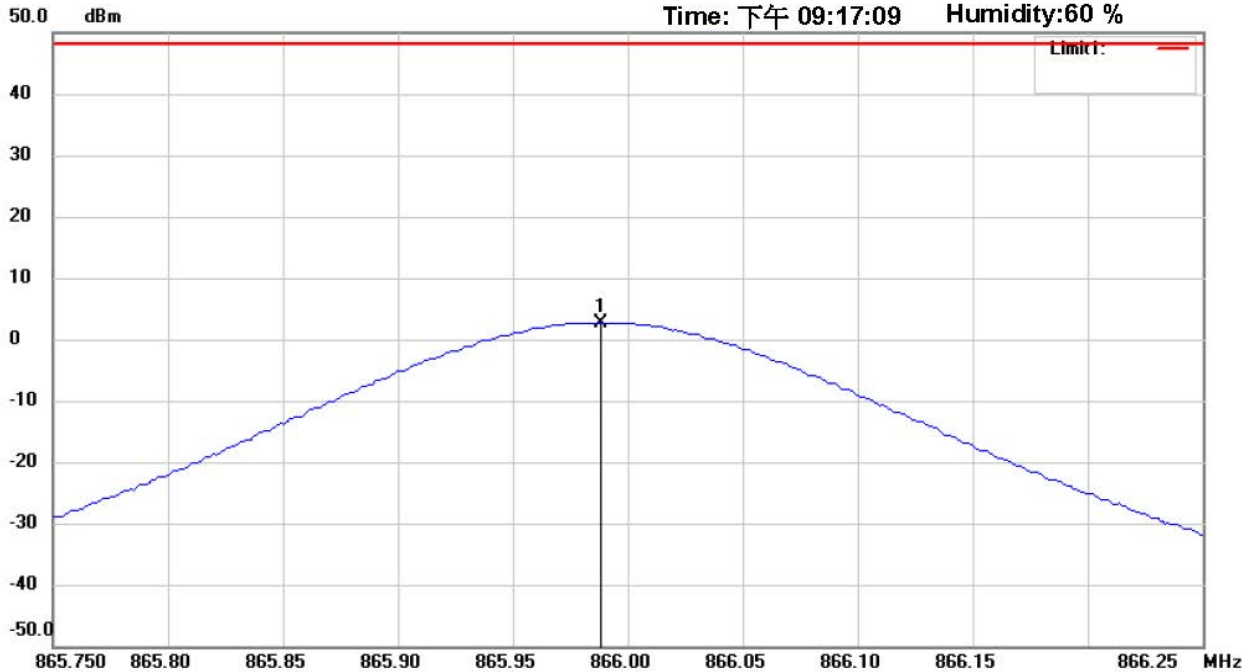
Data :#1

Date: 2018/5/8

Temperature:24 °C

Time: 下午 09:17:09

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

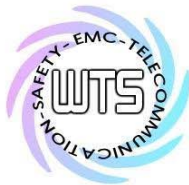
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	865.9885	-32.31	peak	35.06	2.75	48.12	150	155	-45.37	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :866MHz

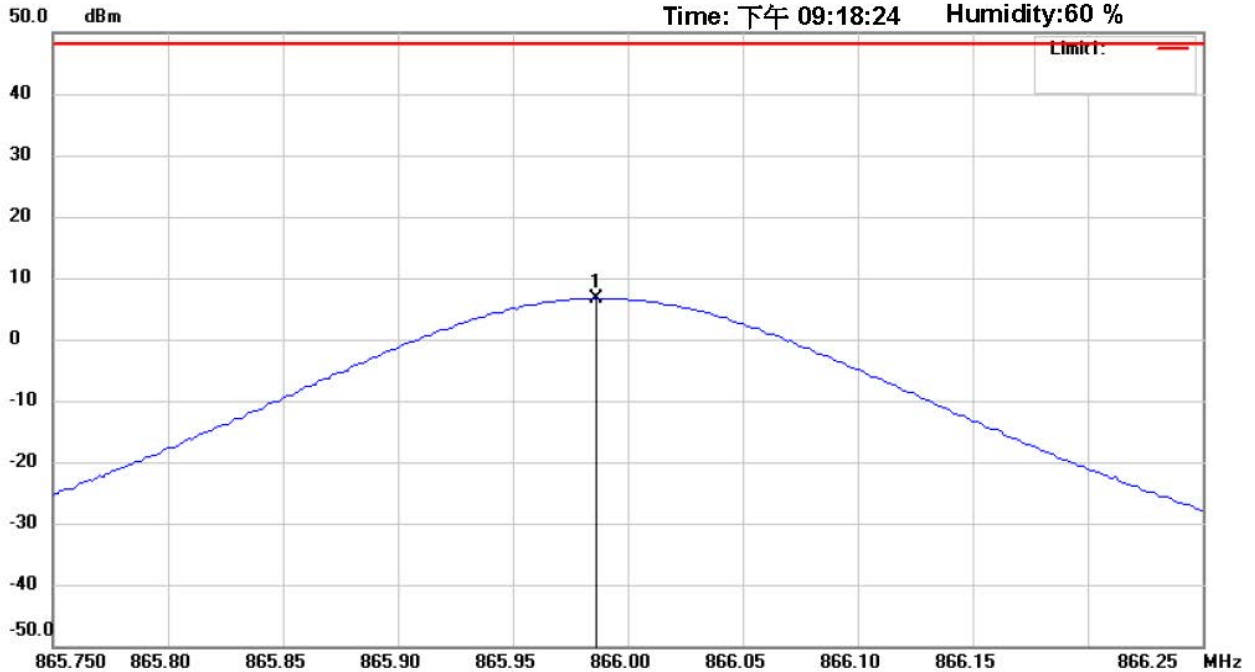
Data :#2

Date: 2018/5/8

Temperature:24 °C

Time: 下午 09:18:24

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

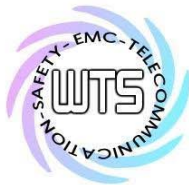
Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	865.9865	-27.80	peak	34.50	6.70	48.12	150	115	-41.42	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :871

Data :#1

Date: 2018/5/8

Temperature:24 °C

Time: 下午 09:20:47

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

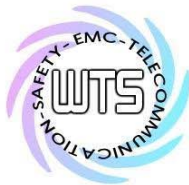
Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	871.9770	-31.36	peak	35.36	4.00	48.12	150	75	-44.12	



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

Radiated Emission Measurement

Operator: Kent

File :871

Data :#2

Date: 2018/5/8

Temperature:24 °C

50.0 dBm

Time: 下午 09:23:07

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 POWER

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	871.9750	-26.62	peak	34.45	7.83	48.12	150	45	-40.29	

Test equipment used: ETSTW-RE 055, ETSTW-RE 072, ETSTW-RE 003, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

6.4 Limit

Power limit according to

FCC § 90.261: 20 watts (43 dBm) (for 450-470 MHz)

FCC § 90.635: 65 watts (48.12 dBm) (for 860-875 MHz)

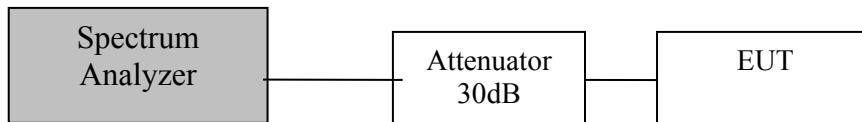
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

7. Emission masks

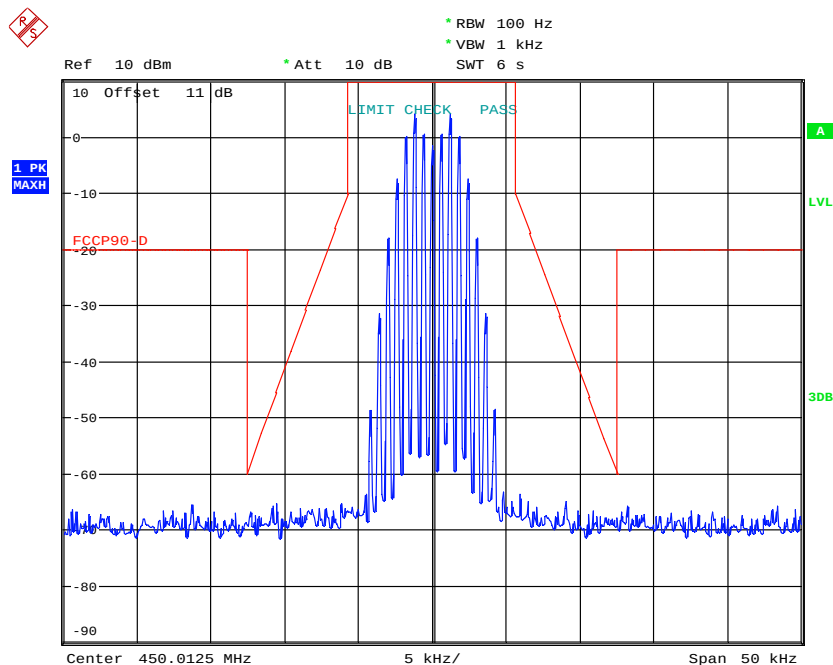
7.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 100 Hz and VBW to 1 kHz.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum
4. Set the span to 50 kHz and the sweep time to Auto.
5. Record the power spectral and compare to the Mask.

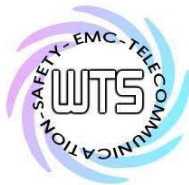
7.2 Test Setup



7.3 Test Result

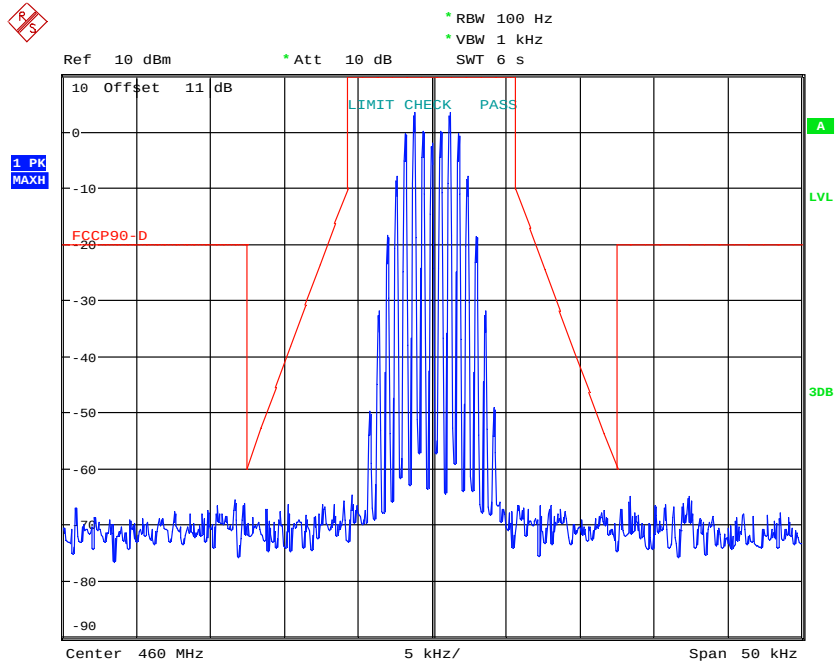


EMISSION MASK 450.0125MHz
Date: 10.MAY.2018 20:01:02

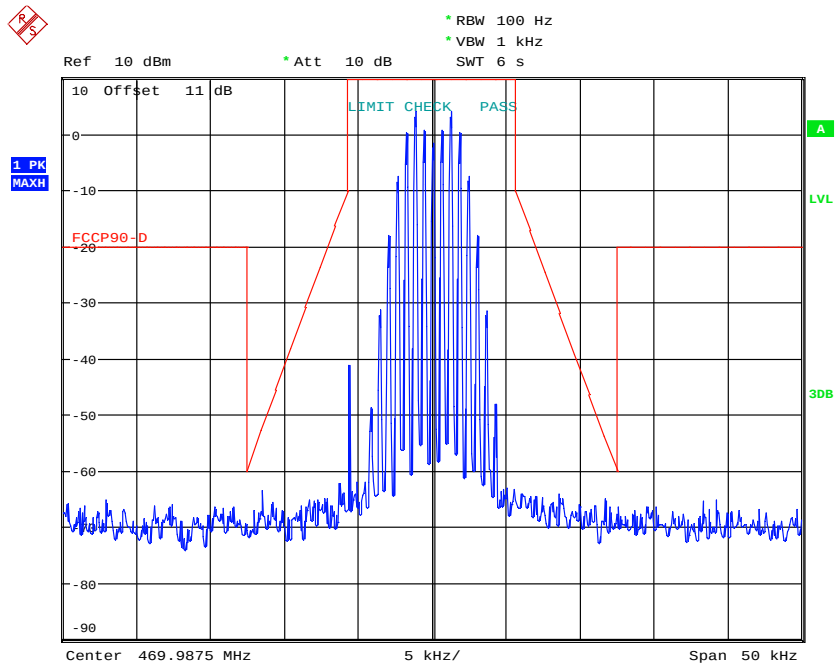


Worldwide Testing Services(Taiwan) Co., Ltd.

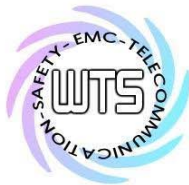
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



EMISSION MASK 460MHz
Date: 10.MAY.2018 20:02:57

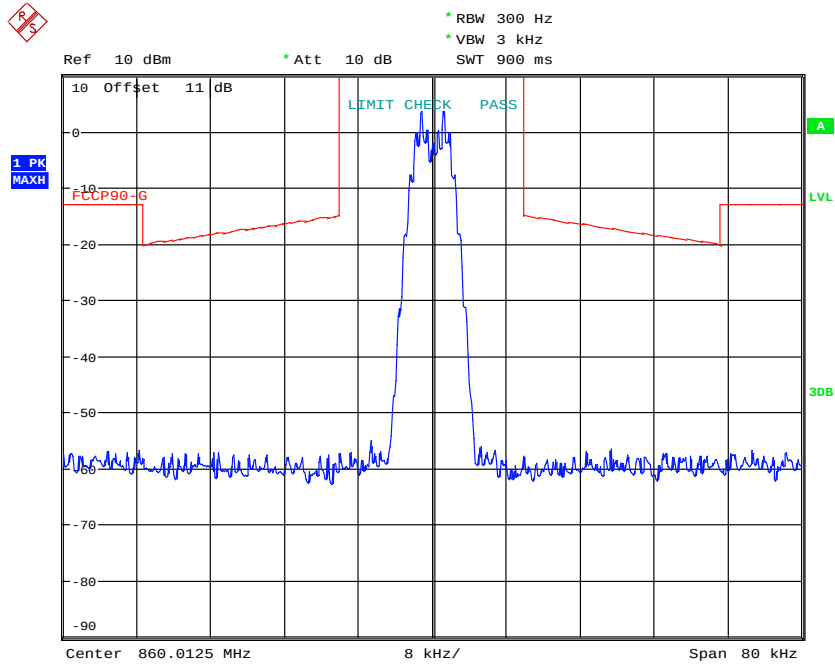


EMISSION MASK 469.9875MHz
Date: 10.MAY.2018 20:02:03

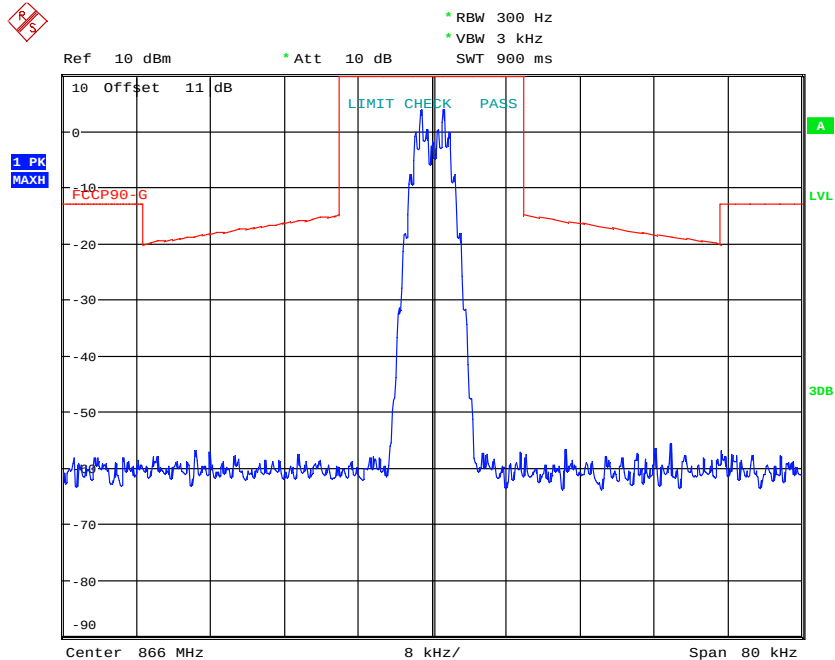


Worldwide Testing Services(Taiwan) Co., Ltd.

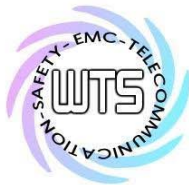
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



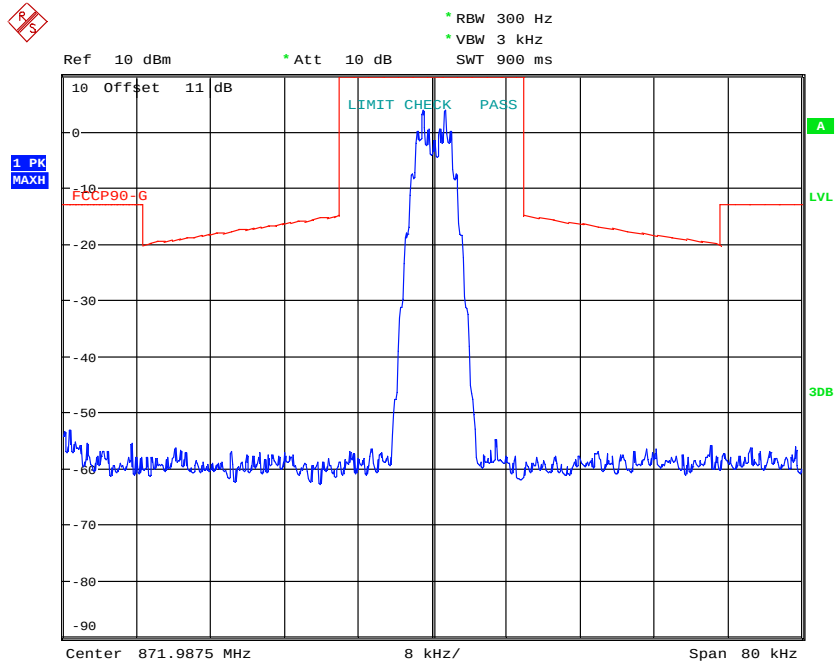
EMISSION MASK 860.0125MHz
Date: 10.MAY.2018 20:20:41



EMISSION MASK 866MHz
Date: 10.MAY.2018 20:22:23



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



EMISSION MASK 871.9875MHz
Date: 10.MAY.2018 20:21:32

Limit according to FCC § 90.210: 12.5 kHz: Emission Mask D (for 400MHz),
Emission Mask G (for 800MHz)

Test equipment used: ETSTW-RE 055, ETSTW-RE072

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

8. Transmitter Spurious Radiated Emission

8.1 Test Procedures

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

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

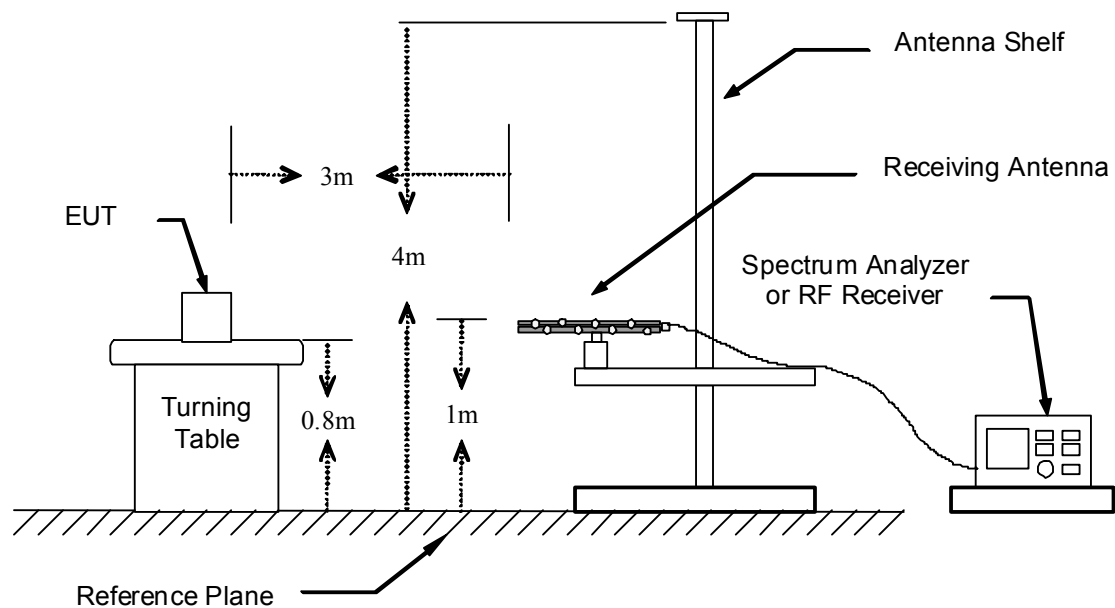
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

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

The test of spurious radiated emission has been carried out with the validated test software. The measurements below 1GHz were performed with a measurement bandwidth of 100 kHz, above 1GHz with a bandwidth of 1MHz.

Spurious emission limits near the carrier are defined by a emission mask.

8.2 Test Setup





Registration number: W6M21804-18005-C-1

FCC ID: NDARP100

8.3 Test Result

Model: RP-100 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

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

Polarization: Vertical

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

- Note**
1. Correction Factor = Antenna 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 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.

Test equipment used: ETSTW-RE 003, ETSTW-RE 042, ETSTW-RE 043, ETSTW-RE 044

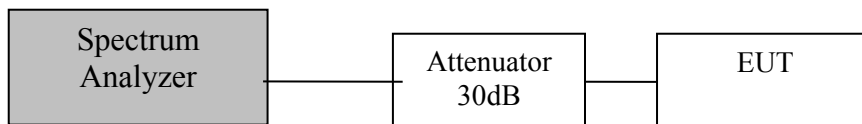
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

9. Transmitter Spurious Conducted Emission

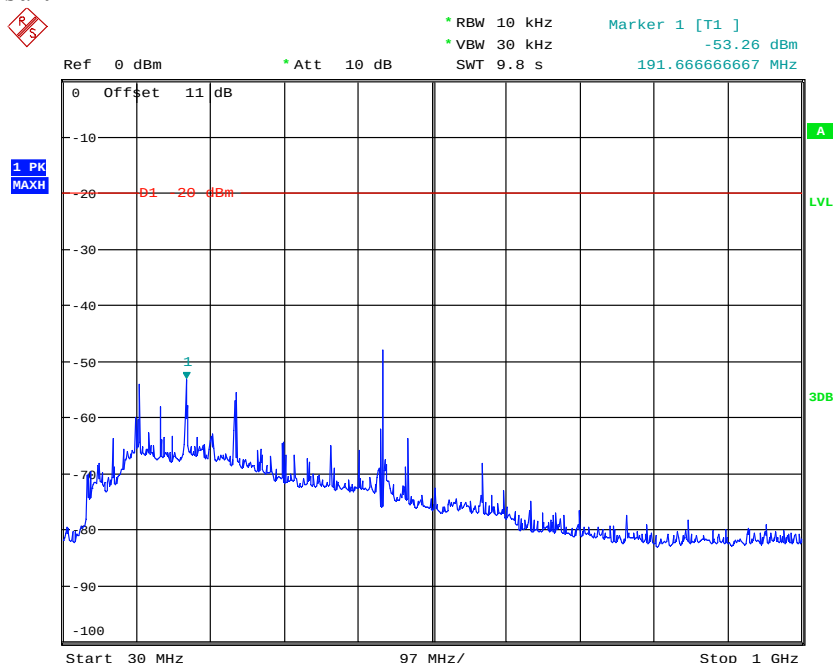
9.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1 GHz.
 - Video Bandwidth = 30 kHz for spurious emissions below 1 GHz, and 3 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration. Detector Mode = Positive Peak.
3. Limits = $P \text{ (dBm)} + 10 \log(P(W)) = -13 \text{ dBm}$

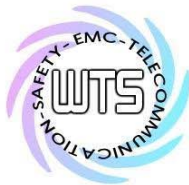
9.2 Test Setup



9.3 Test Result

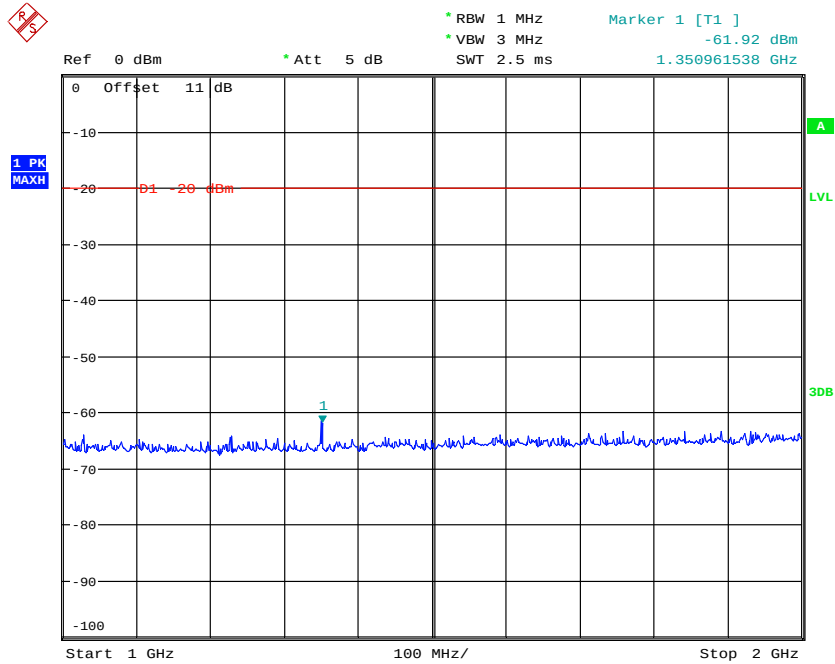


CONDUCTED SPURIOUS EMISSION 450.0125MHz
Date: 9.MAY.2018 21:36:36

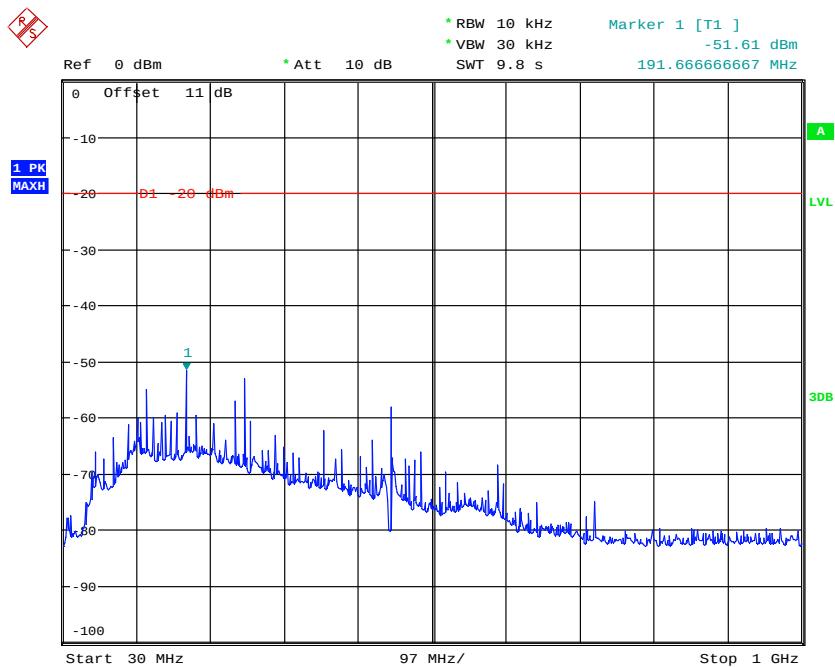


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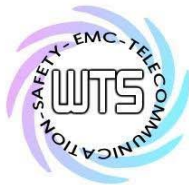
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



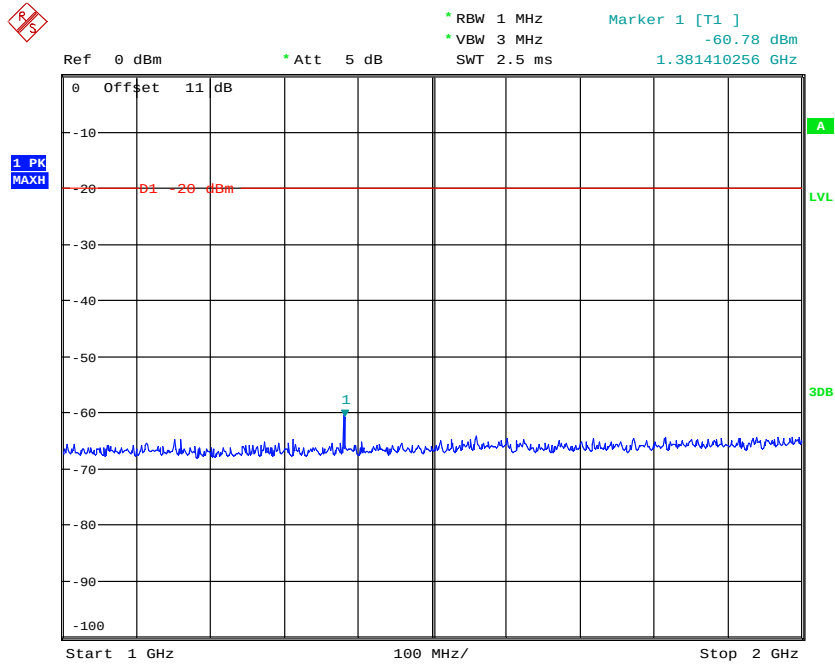
CONDUCTED SPURIOUS EMISSION 450.0125MHZ
Date: 9.MAY.2018 21:24:48



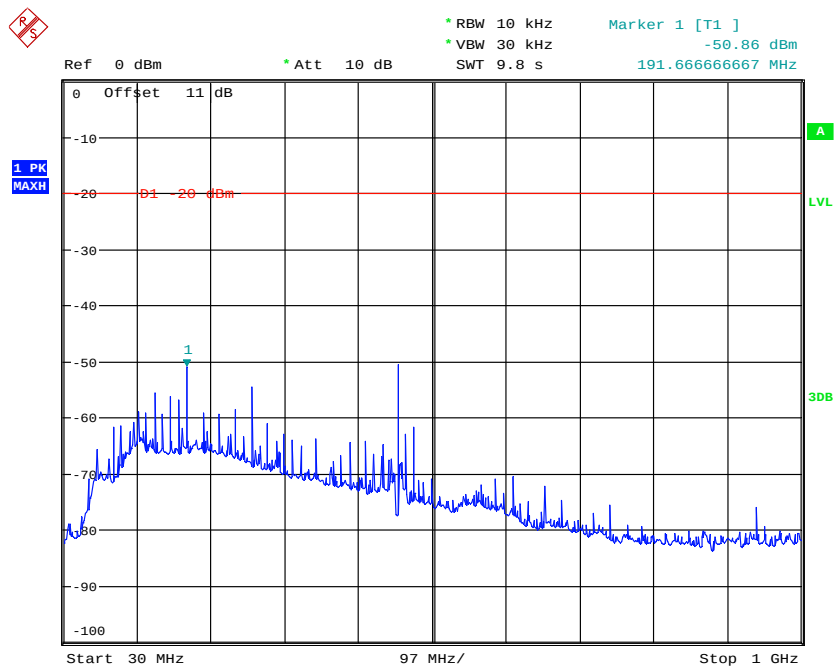
CONDUCTED SPURIOUS EMISSION 460MHZ
Date: 9.MAY.2018 21:33:28



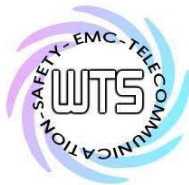
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



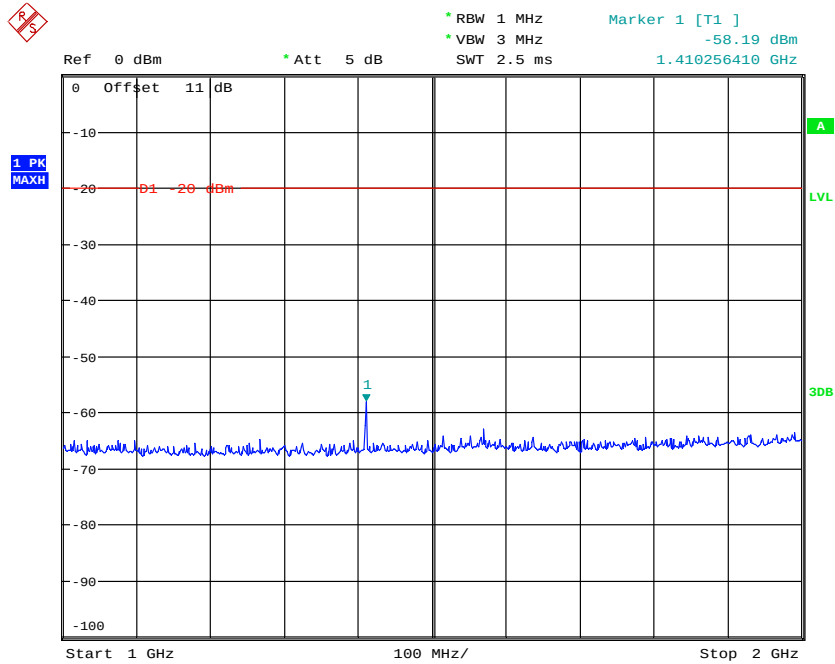
CONDUCTED SPURIOUS EMISSION 460MHZ
Date: 9.MAY.2018 21:25:32



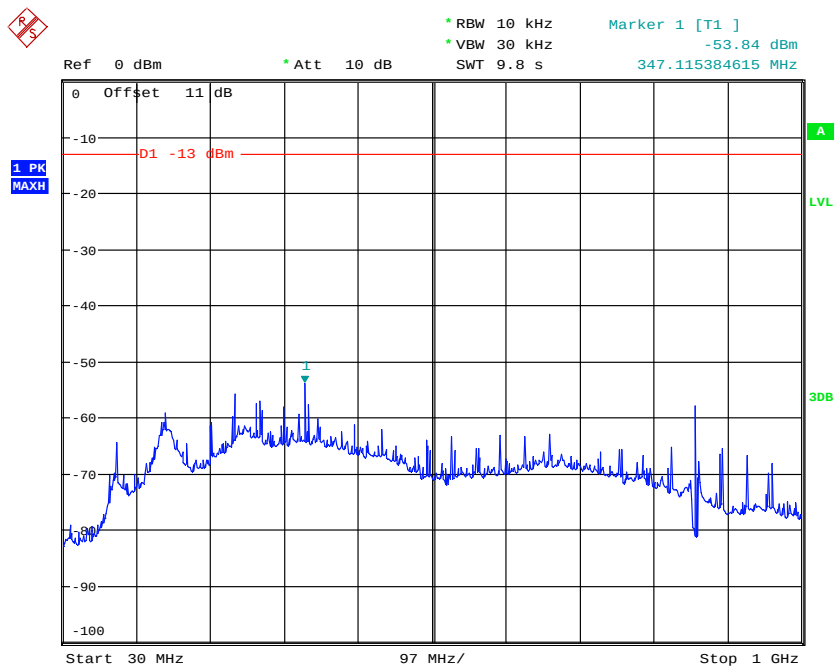
CONDUCTED SPURIOUS EMISSION 469.9875MHZ
Date: 9.MAY.2018 21:35:13



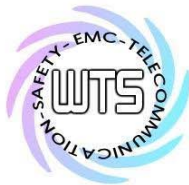
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



CONDUCTED SPURIOUS EMISSION 469.9875MHZ
Date: 9.MAY.2018 21:26:26

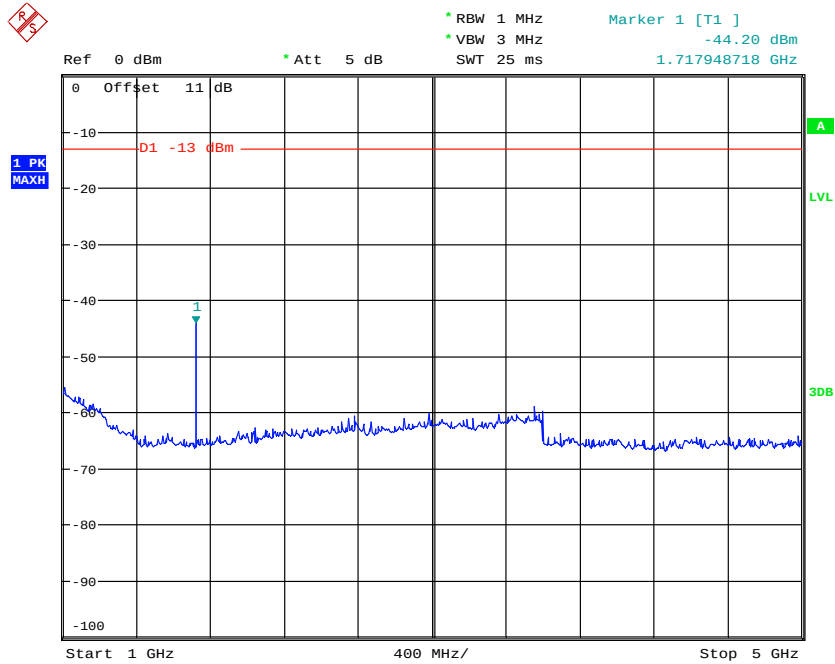


CONDUCTED SPURIOUS EMISSION 860.0125MHZ
Date: 11.MAY.2018 17:52:25

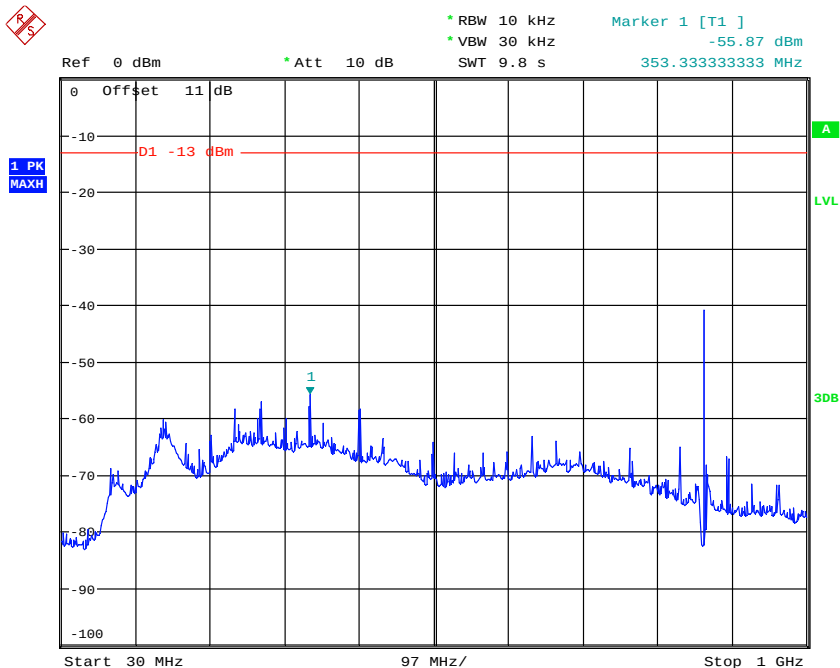


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



CONDUCTED SPURIOUS EMISSION 860.0125MHz
Date: 9.MAY.2018 21:27:37



CONDUCTED SPURIOUS EMISSION 866MHz
Date: 11.MAY.2018 17:53:48



Ref 0 dBm * Att 5 dB

* RBW 1 MHz * VBW 3 MHz SWT 25 ms

Marker 1 [T1] -44.40 dBm 1.730769231 GHz

0 Offset 11 dB

1 PK MAXH

1

10 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100

Start 1 GHz 400 MHz/ Stop 5 GHz

Ref 0 dBm * Att 10 dB * RBW 10 kHz Marker 1 [T1] -55.10 dBm
 VBW 30 kHz SWT 9.8 s 255.400641026 MHz

0 Offset 11 dB

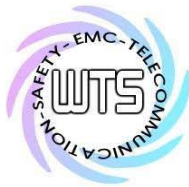
1 PK MAXH

D1 -13 dBm

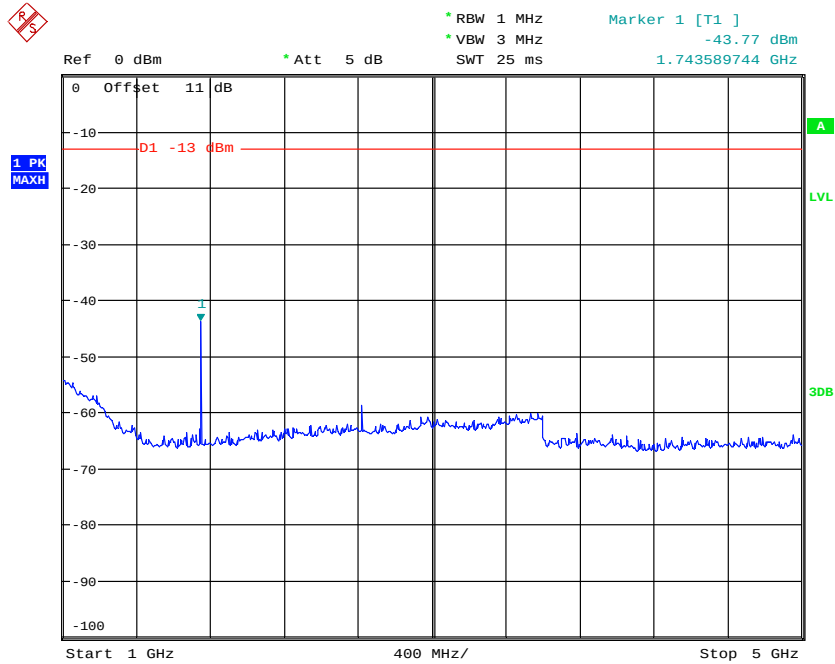
1

Start 30 MHz 97 MHz/ Stop 1 GHz

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Registration number: W6M21804-18005-C-1
FCC ID: NDARP100



CONDUCTED SPURIOUS EMISSION 871.9875MHz
Date: 9.MAY.2018 21:28:28

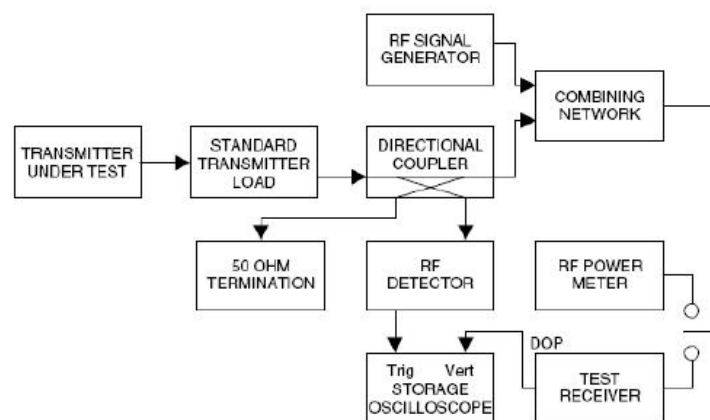
Test equipment used: ETSTW-RE 055, ETSTW-RE 072

10. Transient frequency behavior

10.1 Test Procedures

1. SG to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 25 kHz deviation and set its output level to below 30dB of EUT signal level to receiver.
2. Set the horizontal sweep rate on the storage oscilloscope to 10 ms per division and adjust the display to continuously view the 1000 Hz tone from the DOP. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at ± 4 divisions vertically centered on the display.
3. Transmitter on and observe the stored display. The output at the DOP, due to the change in the ratio of power between the signal generator input power and the transmitter output power will, because of the capture effect of the test receiver, produce a change in display: For the first part of the sweep it will show the 1 kHz test signal. Then once the receiver's demodulator has been captured by the transmitter power, the display will show the frequency difference from the assigned frequency to the actual transmitter frequency versus time. The instant when the 1 kHz test signal is completely suppressed (including any capture time due to phasing) is considered to be t_{on} . The trace should be maintained within the allowed divisions during the period t_1 and t_2 . See the figure in the appropriate standards section.
4. During the time from the end of t_2 to the beginning of t_3 the frequency difference should not exceed the limits set by the FCC in 47 CFR 90.214 and outlined in 3.2.2. The allowed limit is equal to the transmitter frequency times its FCC frequency tolerance times ± 4 display divisions divided by 25 kHz. For example, at a transmitter assigned frequency of 500 MHz and a frequency tolerance of 5 ppm. This would be 500 MHz times 5 ppm times ± 4 divisions divided by 25 kHz. This equals ± 0.4 divisions in this example. Greater vertical sensitivity may be required to view this accurately
5. Adjust the oscilloscope trigger controls so it will trigger on a decreasing magnitude from the RF peak detector, at 1 division from the right side of the display, when the transmitter is turned off. Set the controls to store the display. The moment when the 1 kHz test signal starts to rise is considered to provide t_{off} .

10.2 Test Setup



10.3 Test Result

Explanation: This test is not required because the EUT doesn't belong to audio device.

Test equipment used: ETSTW-RE 072

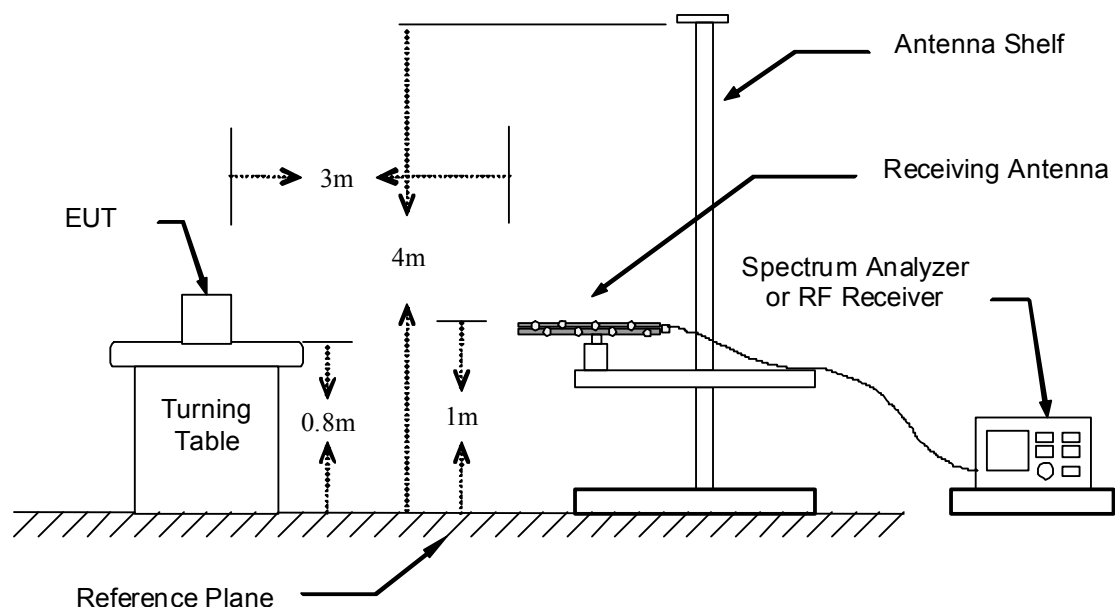
Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

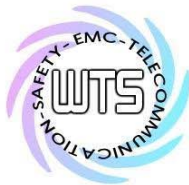
11. Receiver Radiated Spurious Emission

11.1 Test Procedures

1. Configure the EUT according to ANSI C63.4.
2. The EUT was placed on the top of the turn table 0.8 meter above ground.
3. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turn table.
4. Power on the EUT and all the supporting units.
5. The turn table was rotated 360 degrees to determine the position of the highest radiation.
6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
7. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
8. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1GHz.
 - Video Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration.
 - Detector Mode = Positive Peak.

11.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1

FCC ID: NDARP100

11.3 Test Result

Model: RP-100

Date:--

Mode: --

Temperature: --

°C

Engineer: --

Polarization: Horizontal

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

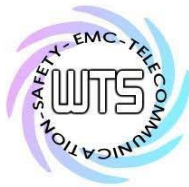
Polarization: Vertical

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)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	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. Measurement uncertainty: 30-1000 MHz : ± 3.57 dB, 1-18GHz : ± 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 $k = 2$.
5. All not in the table noted test results are more than 20 dB below the relevant limits.
6. Up Line: PK Limit Line, Down Line: Ave Limit Line.
7. Please refer to the test report number: W6M21804-18005-P-15B.



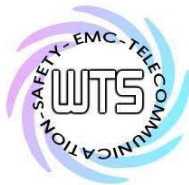
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

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

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



Registration number: W6M21804-18005-C-1
FCC ID: NDARP100

12. RF Exposure Compliance Requirements

FCC Rule: Part 90

Test exclusion = max. conducted output power + adjusted for tune-up tolerance

Test exclusion = 10.47 dBm

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v05r02

According to 447498 D01 General RF Exposure Guidance v05r02:

SAR evaluation, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

The enclosure of the device provides ≥ 0.5 cm separation from the antenna elements to significant metal parts of the enclosure to minimize potential perturbations.

Frequency Band: 450-470 MHz

Maximum Power fed to Antenna: 11.1429 mW

Separation distances:

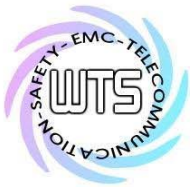
Radiator to user: > 5 mm

Distance prescribed in user manual: > 5 mm

MHz	5	10	15	20	25	mm
450	22	45	67	89	112	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
450	134	157	179	201	224	SAR Test Exclusion Threshold (mW)

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	mW



Appendix

Measurement diagrams

Radiated Spurious Emission



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

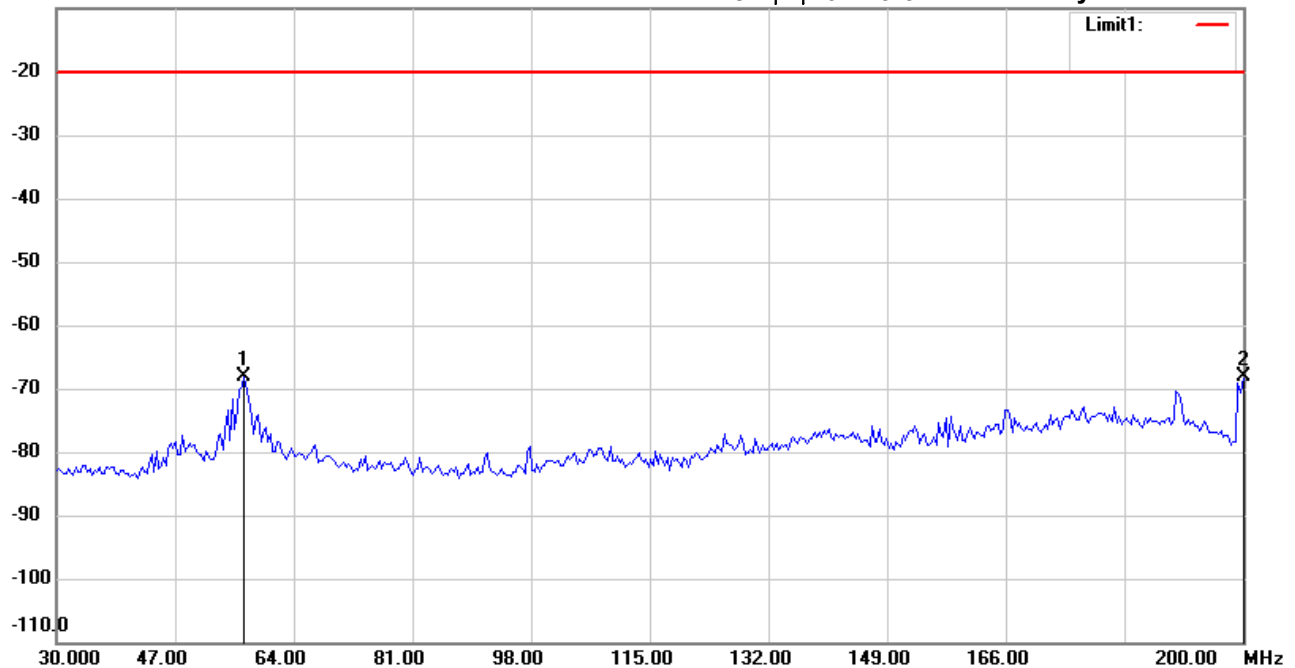
Date: 2018/5/9

Temperature:24 °C

-10.0 dBm

Time: 下午 07:43:32

Humidity:60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	56.9138	-89.76	peak	21.64	-68.12	-20.00	150	330	-48.12	
*	200.0000	-89.81	peak	21.71	-68.10	-20.00	150	160	-48.10	

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



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

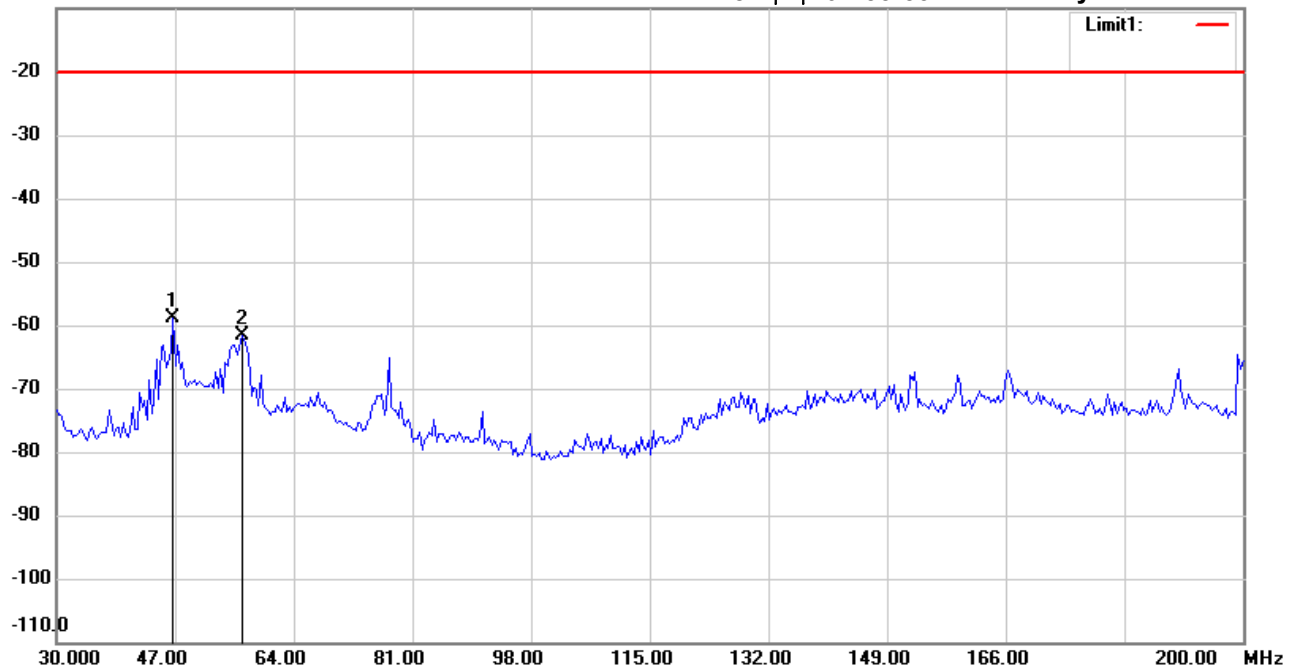
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:55:53

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.6934	-79.93	peak	21.13	-58.80	-20.00	150	245	-38.80	
	56.5731	-83.23	peak	21.50	-61.73	-20.00	150	110	-41.73	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

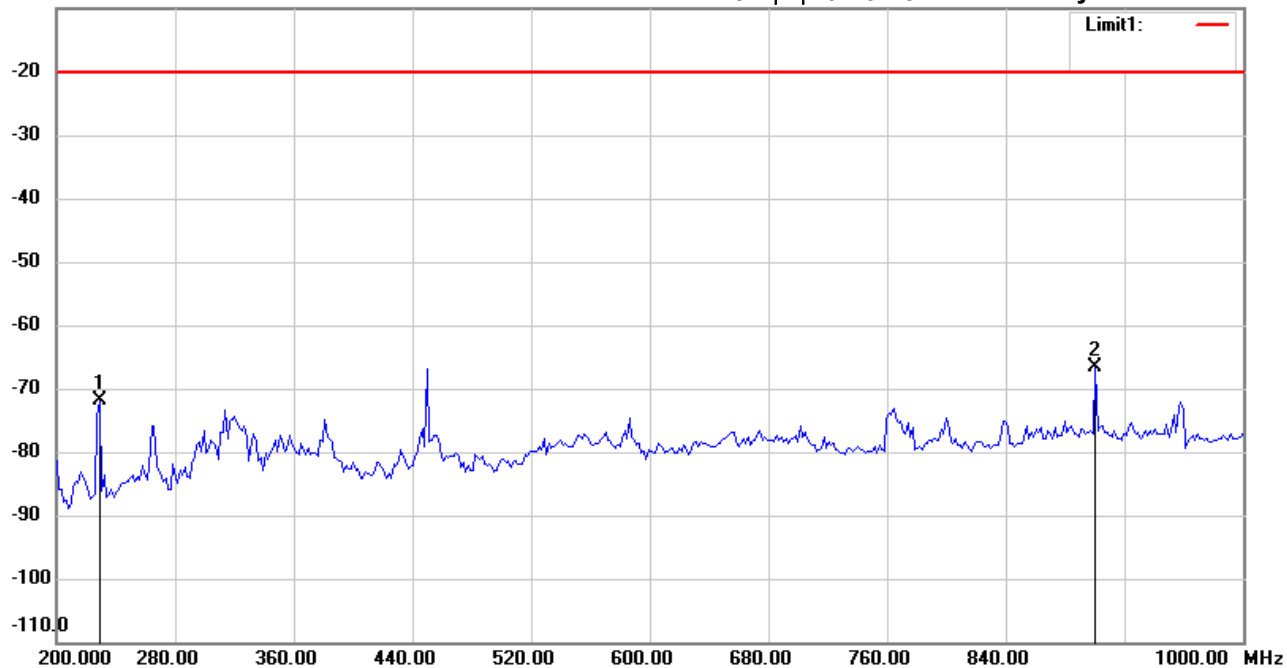
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:37:51

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	228.8577	-57.12	peak	-14.79	-71.91	-20.00	150	160	-51.91	
*	900.6012	-65.18	peak	-1.35	-66.53	-20.00	150	330	-46.53	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

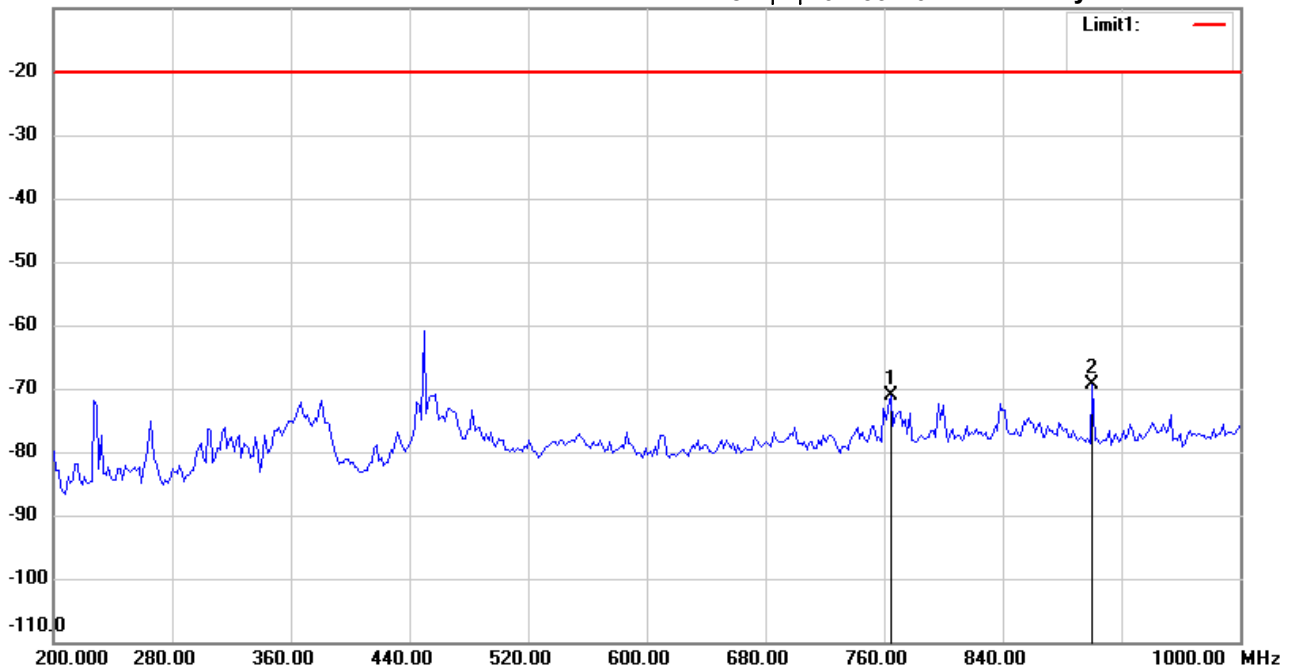
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:39:20

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	764.3287	-67.69	peak	-3.38	-71.07	-20.00	150	245	-51.07	
*	900.6012	-66.56	peak	-2.79	-69.35	-20.00	150	160	-49.35	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #1

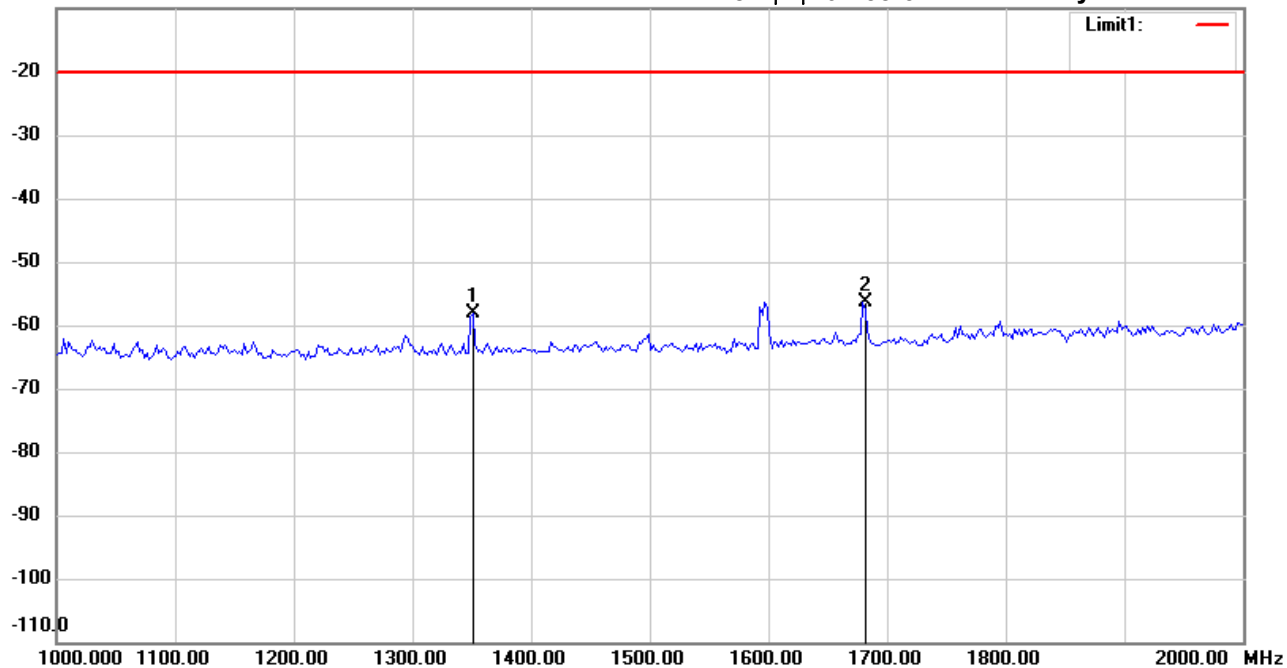
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 04:58:34

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1350.701	-55.99	peak	-2.19	-58.18	-20.00	150	245	-38.18	
*	1679.359	-55.33	peak	-1.01	-56.34	-20.00	150	160	-36.34	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #2

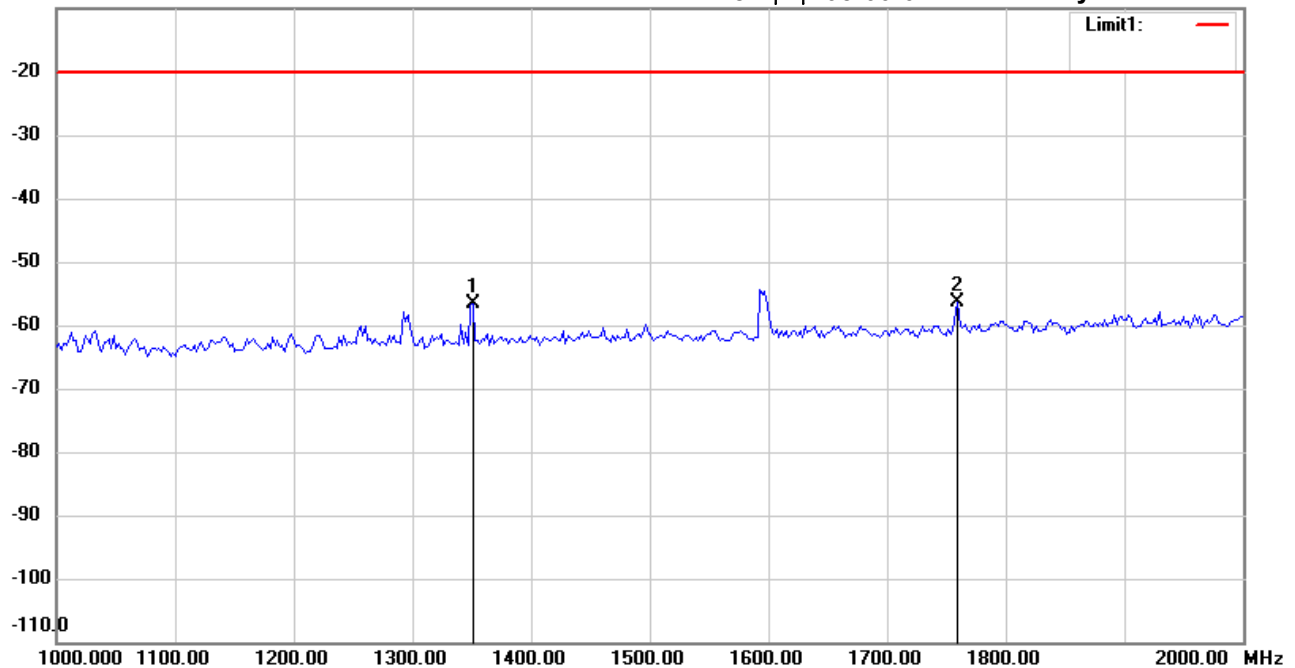
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:00:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1350.701	-55.85	peak	-0.70	-56.55	-20.00	150	245	-36.55	
*	1759.519	-57.56	peak	1.08	-56.48	-20.00	150	160	-36.48	

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



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

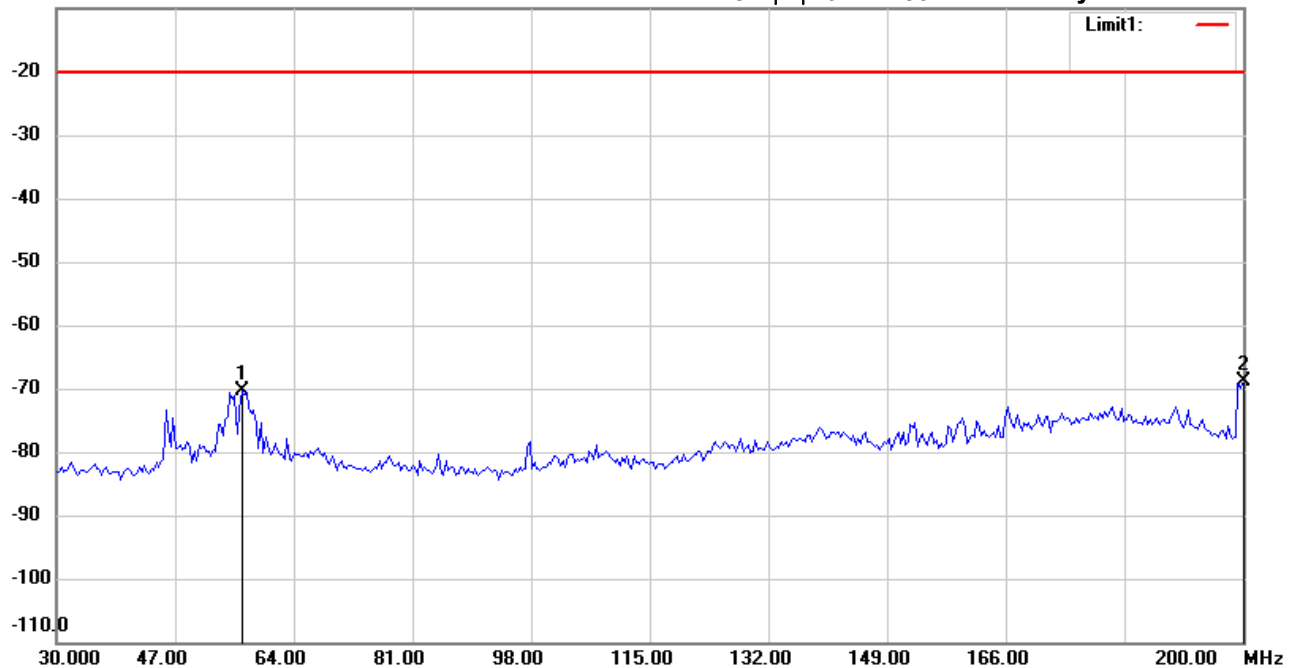
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:44:39

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	56.5731	-92.06	peak	21.63	-70.43	-20.00	150	330	-50.43	
*	200.0000	-90.48	peak	21.71	-68.77	-20.00	150	110	-48.77	

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



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

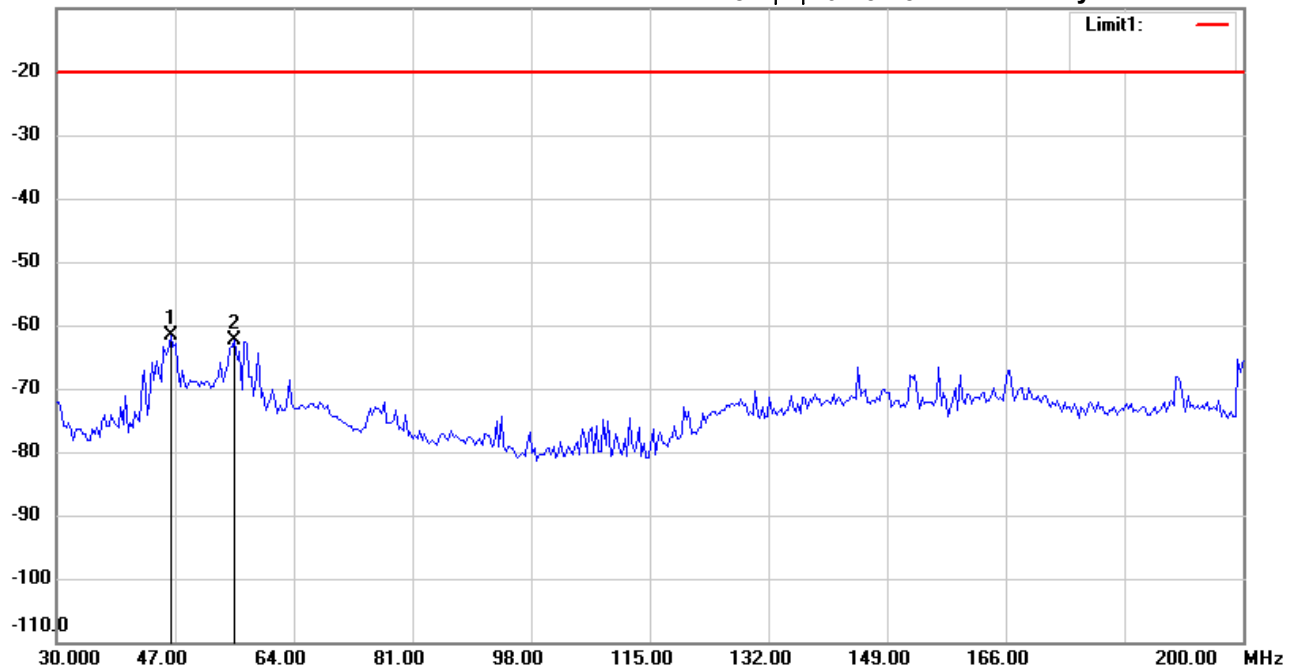
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:54:54

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.3527	-82.76	peak	21.11	-61.65	-20.00	150	245	-41.65	
	55.5511	-83.77	peak	21.47	-62.30	-20.00	150	160	-42.30	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

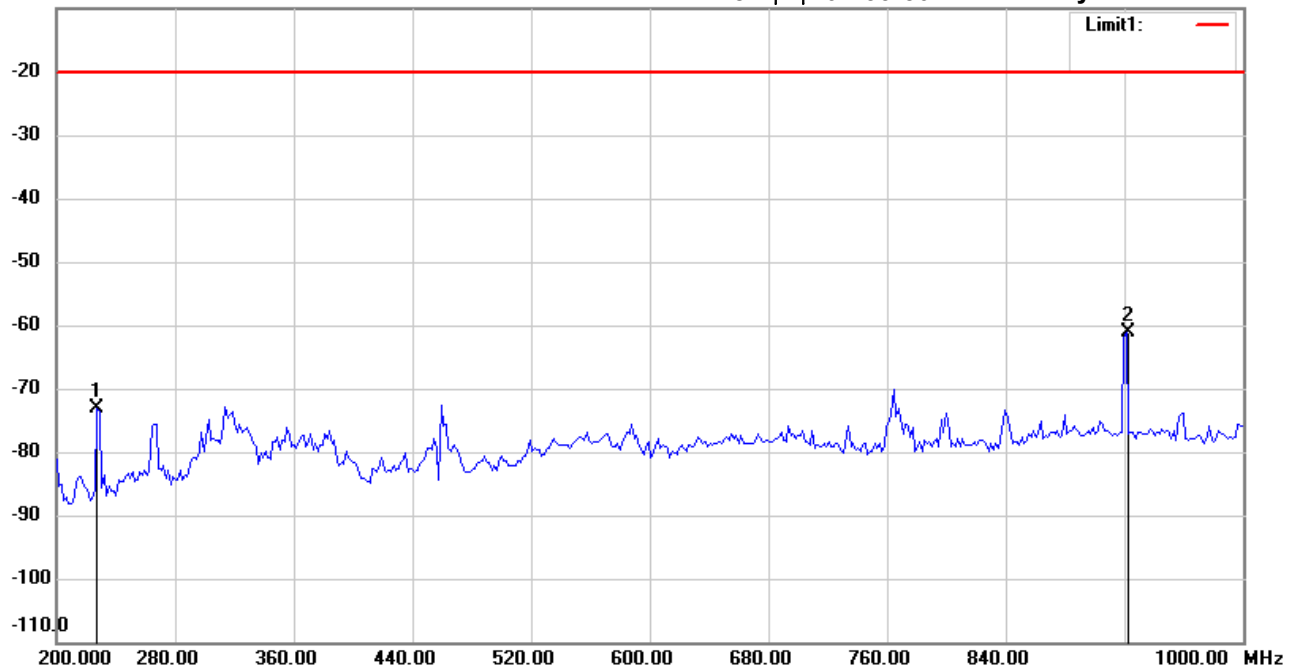
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:33:50

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	227.2545	-58.26	peak	-14.89	-73.15	-20.00	150	160	-53.15	
*	921.4430	-59.19	peak	-2.05	-61.24	-20.00	150	330	-41.24	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

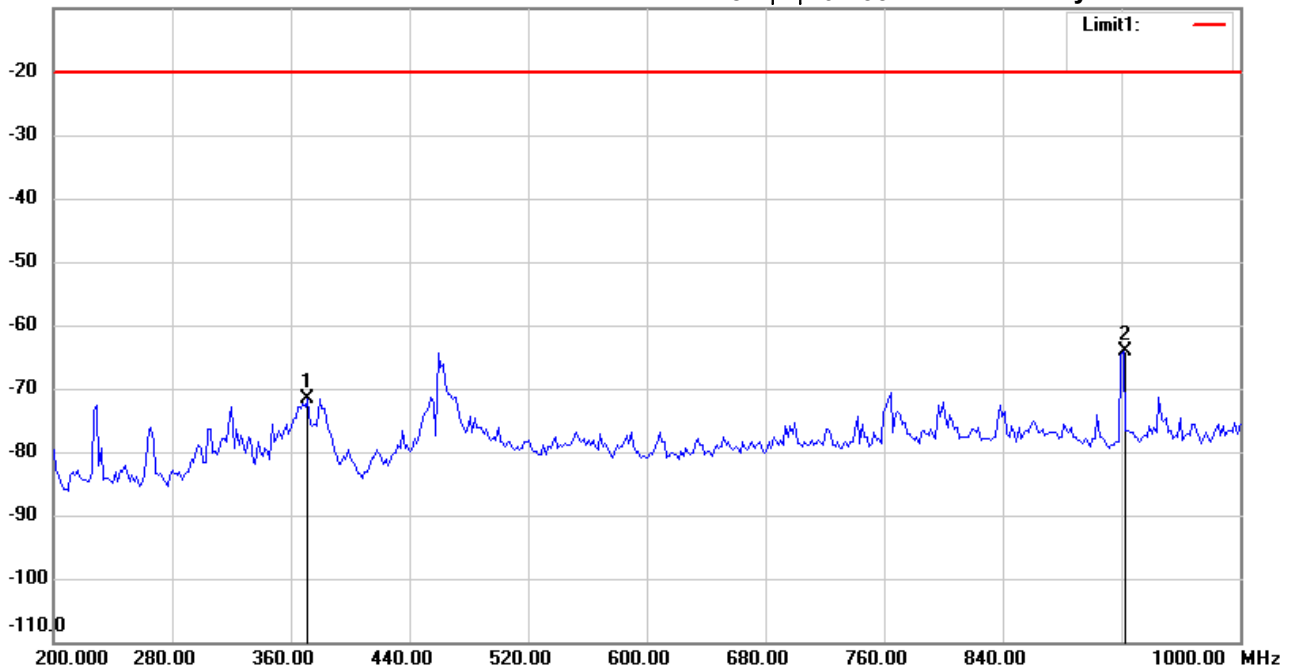
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:35:12

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	371.5431	-61.90	peak	-9.64	-71.54	-20.00	150	300	-51.54	
*	921.4430	-61.22	peak	-2.85	-64.07	-20.00	150	160	-44.07	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #1

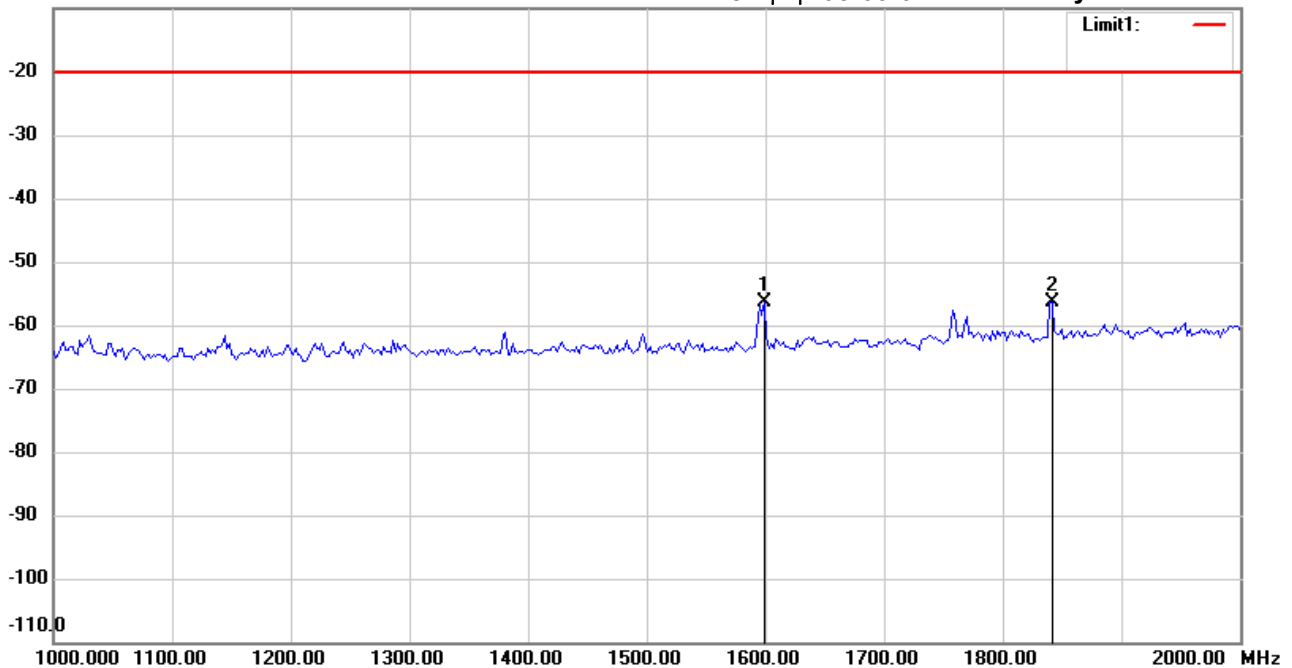
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:03:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: **Horizontal**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1599.198	-54.83	peak	-1.54	-56.37	-20.00	150	160	-36.37	
	1841.683	-56.51	peak	0.06	-56.45	-20.00	150	330	-36.45	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #2

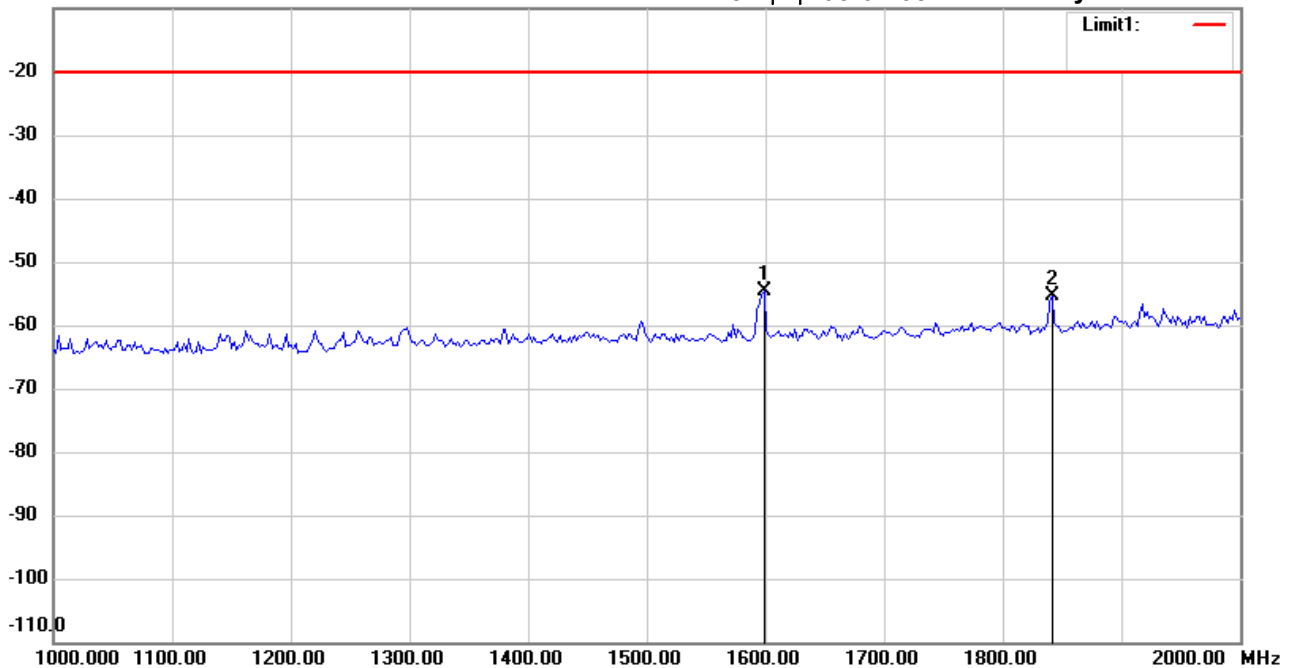
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:04:38

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 460MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1599.198	-54.82	peak	0.27	-54.55	-20.00	150	245	-34.55	
	1841.683	-56.99	peak	1.50	-55.49	-20.00	150	160	-35.49	

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



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

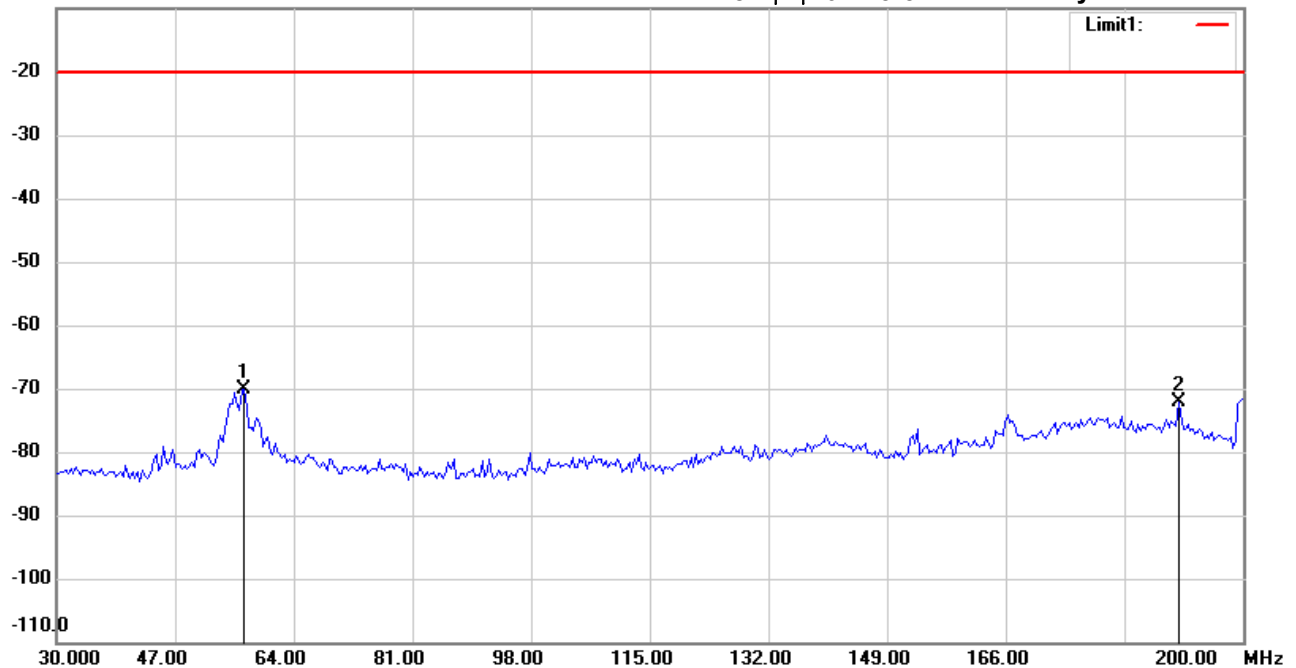
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:45:52

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	56.9138	-91.69	peak	21.64	-70.05	-20.00	150	110	-50.05	
	190.8015	-93.63	peak	21.62	-72.01	-20.00	150	245	-52.01	

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



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

Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

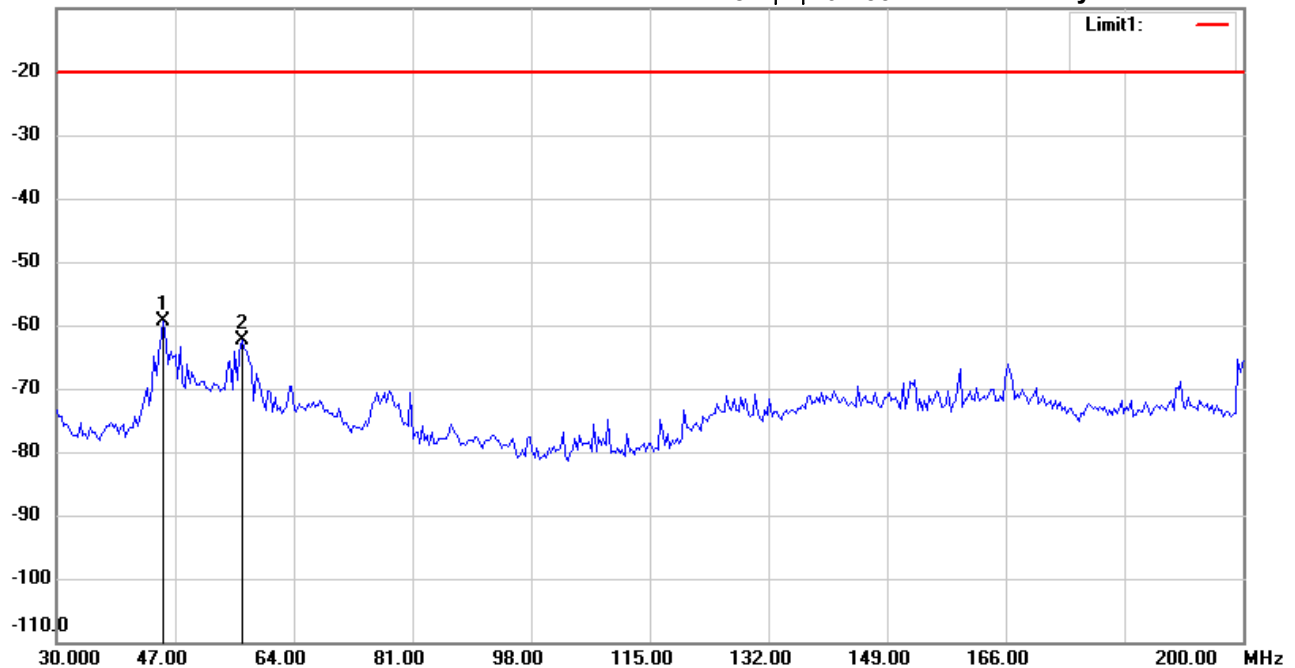
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:53:47

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	45.3307	-80.54	peak	21.06	-59.48	-20.00	150	75	-39.48	
	56.5731	-83.99	peak	21.50	-62.49	-20.00	150	220	-42.49	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

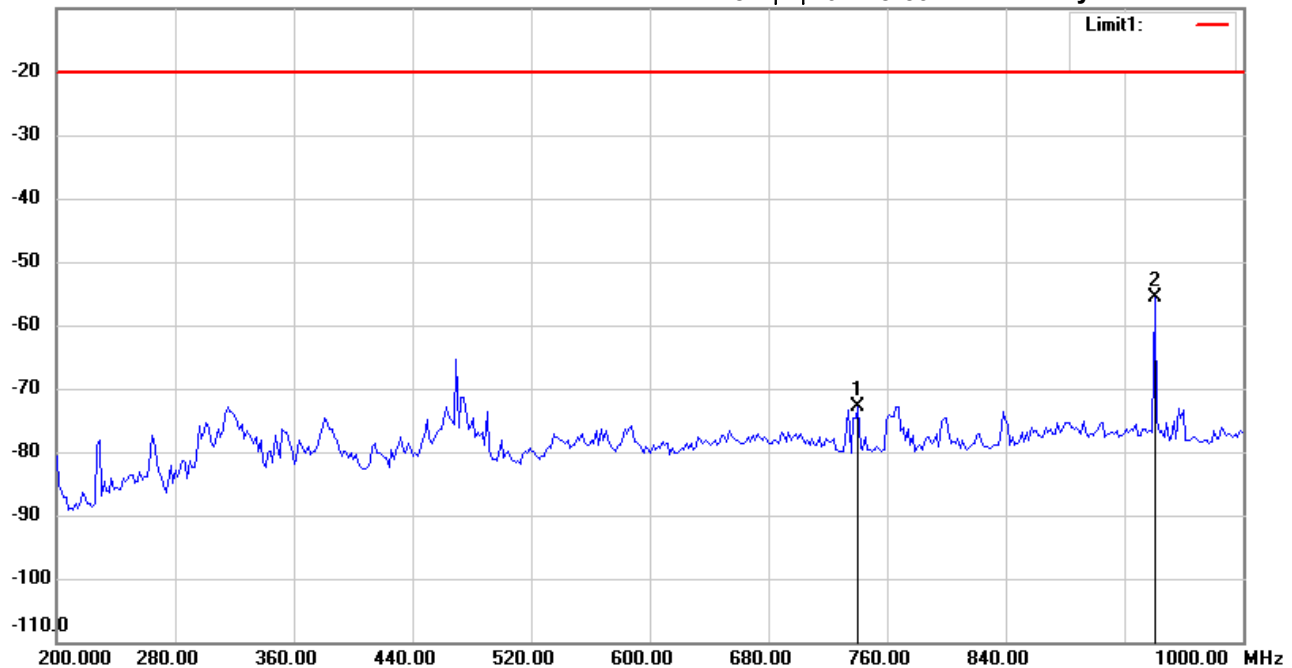
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:28:59

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	740.2806	-68.57	peak	-4.26	-72.83	-20.00	150	160	-52.83	
*	940.6814	-53.04	peak	-2.69	-55.73	-20.00	150	245	-35.73	

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



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

Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

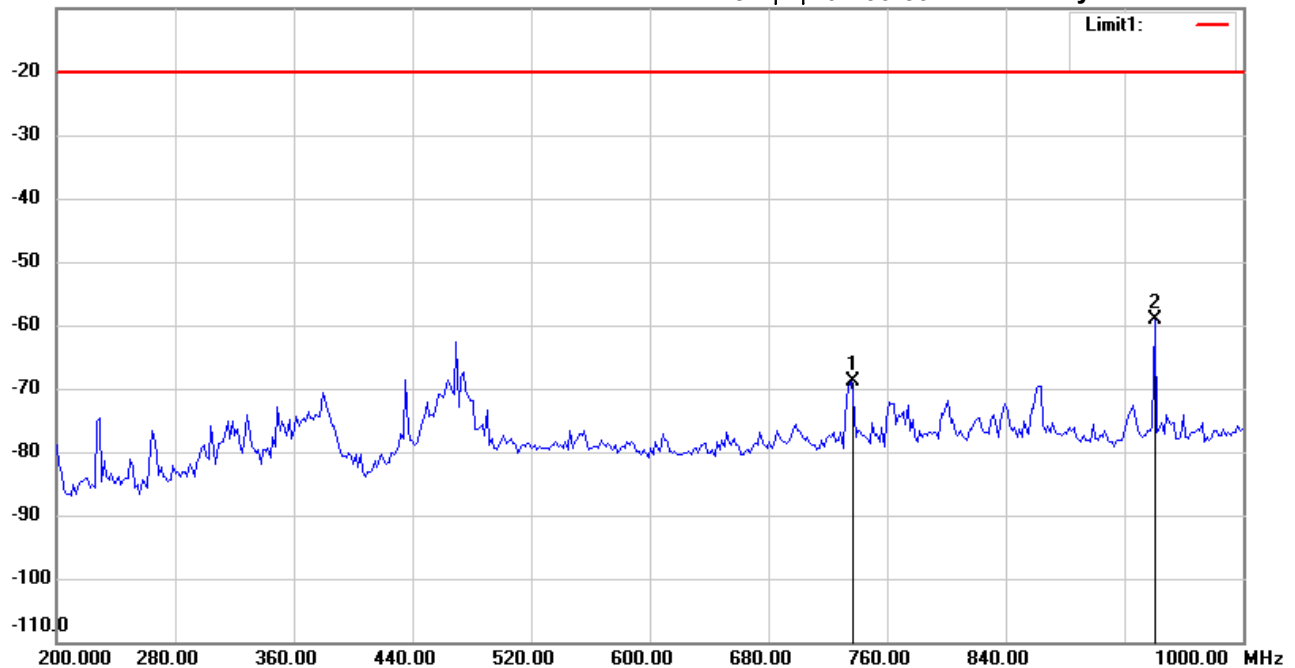
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:30:39

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	735.4710	-65.39	peak	-3.50	-68.89	-20.00	150	245	-48.89	
*	940.6814	-56.11	peak	-2.90	-59.01	-20.00	150	160	-39.01	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #1

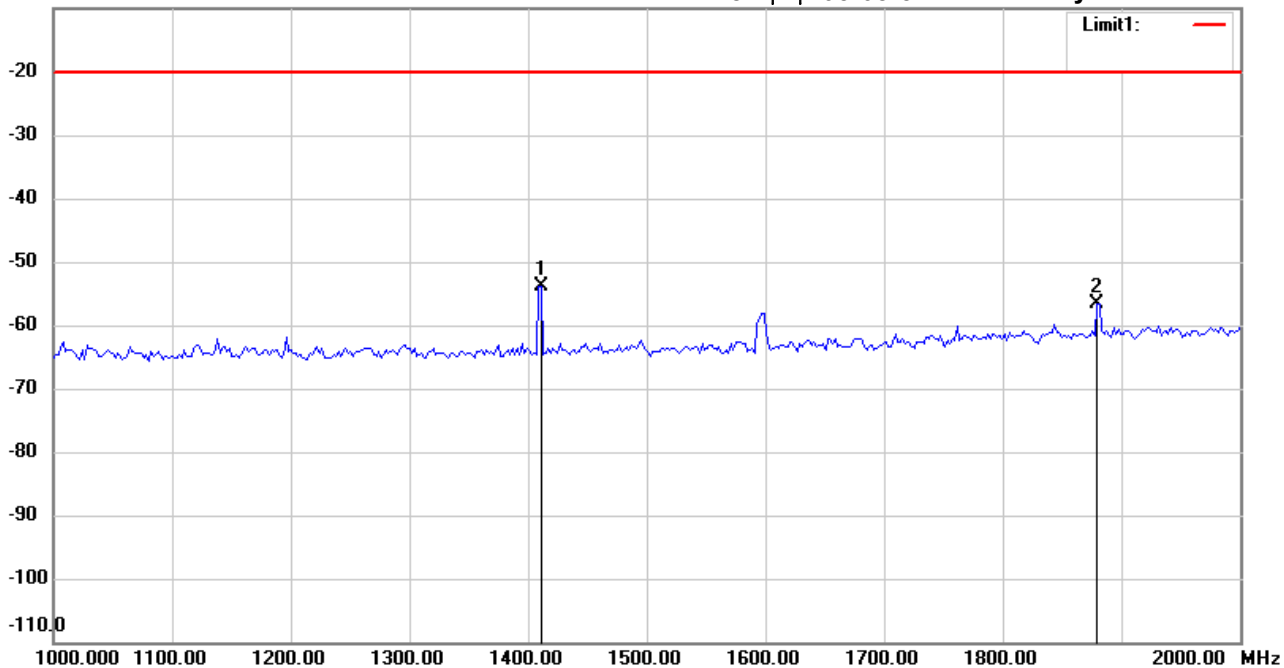
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:08:54

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-51.65	peak	-2.19	-53.84	-20.00	150	245	-33.84	
	1879.759	-56.81	peak	0.31	-56.50	-20.00	150	160	-36.50	

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



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

Radiated Emission Measurement

Operator: Kent

File :3

Data :#2

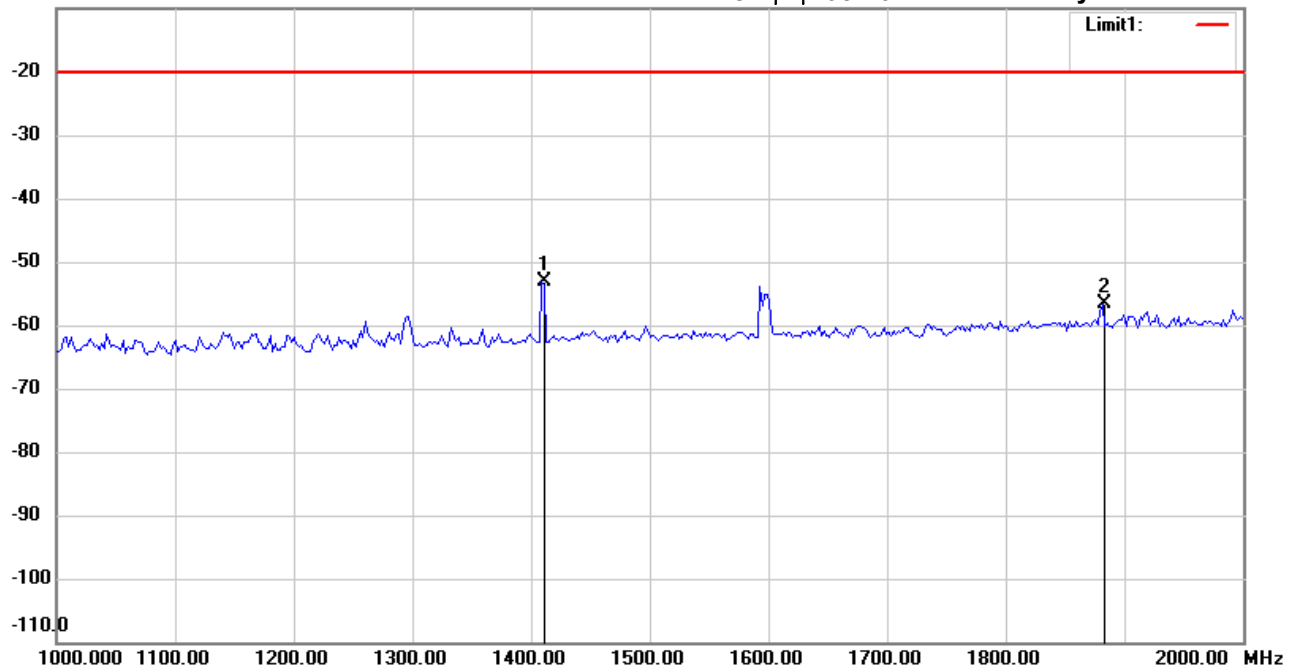
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:10:42

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 469.9875MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-52.59	peak	-0.52	-53.11	-20.00	150	330	-33.11	
	1881.764	-58.22	peak	1.71	-56.51	-20.00	150	160	-36.51	

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



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
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Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

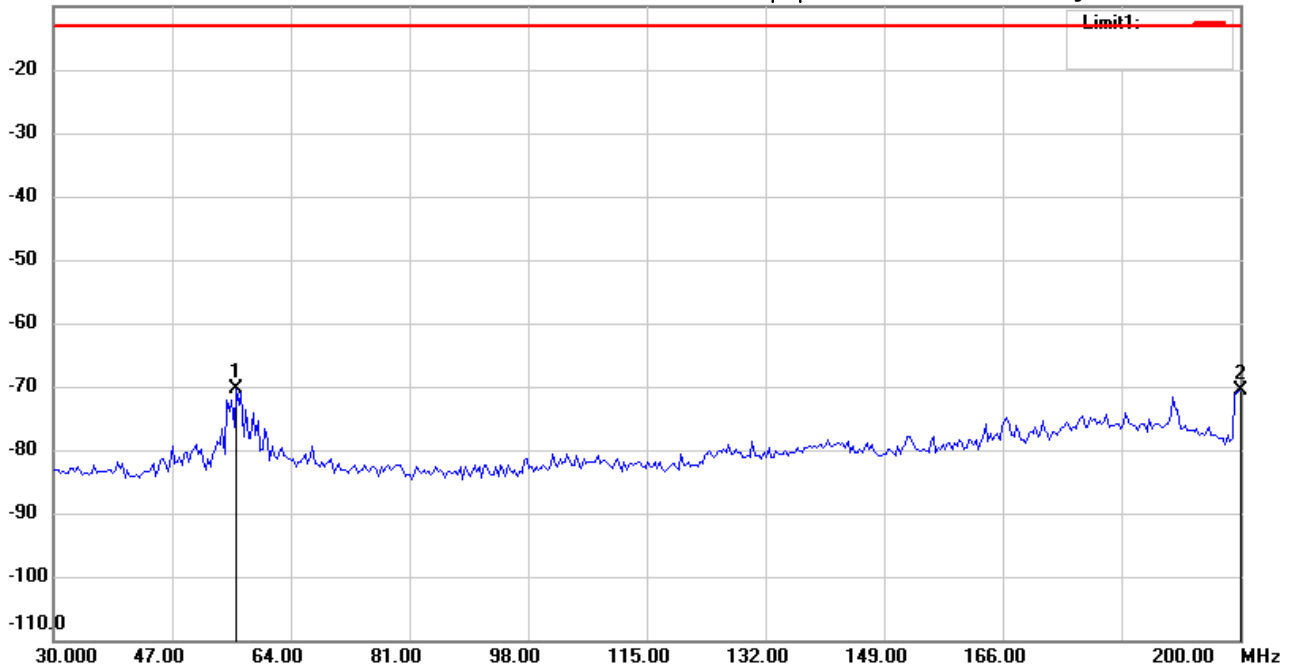
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:47:03

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	56.2325	-91.92	peak	21.61	-70.31	-13.00	150	185	-57.31	
	200.0000	-92.40	peak	21.71	-70.69	-13.00	150	330	-57.69	

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



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Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

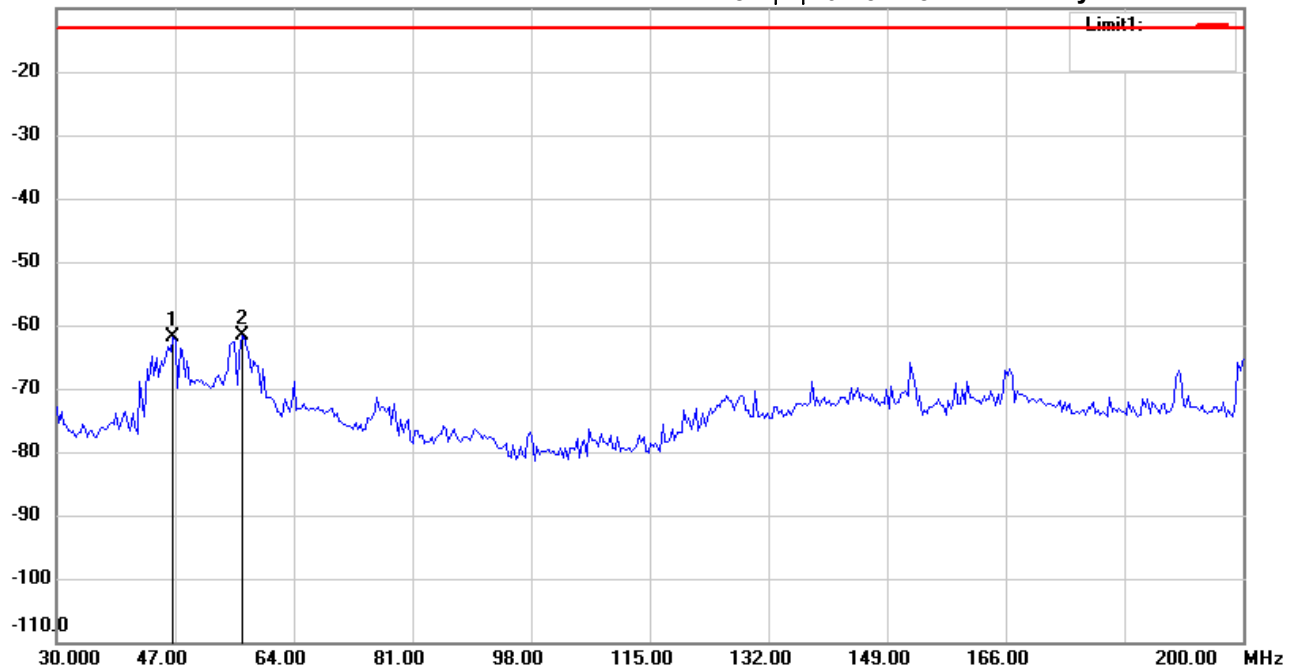
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:52:48

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	46.6934	-82.88	peak	21.13	-61.75	-13.00	150	75	-48.75	
*	56.5731	-83.09	peak	21.50	-61.59	-13.00	150	330	-48.59	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

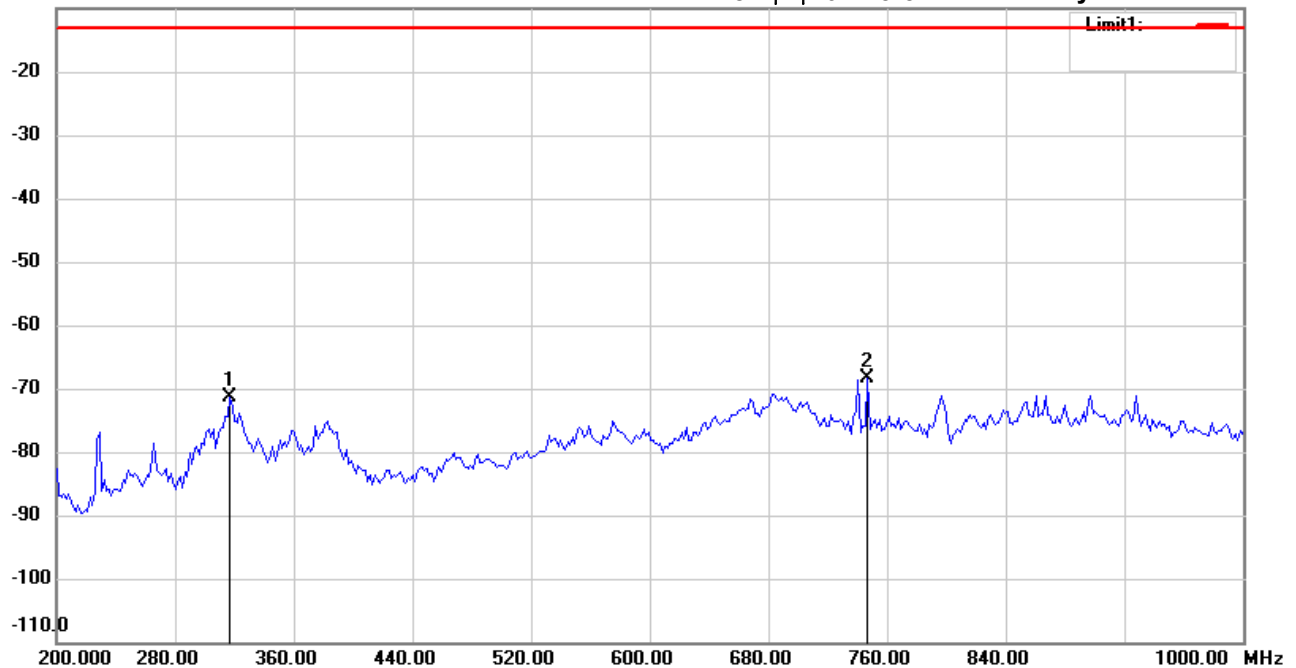
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:15:51

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	317.0341	-60.99	peak	-10.35	-71.34	-13.00	150	220	-58.34	
*	746.6934	-63.96	peak	-4.53	-68.49	-13.00	150	195	-55.49	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

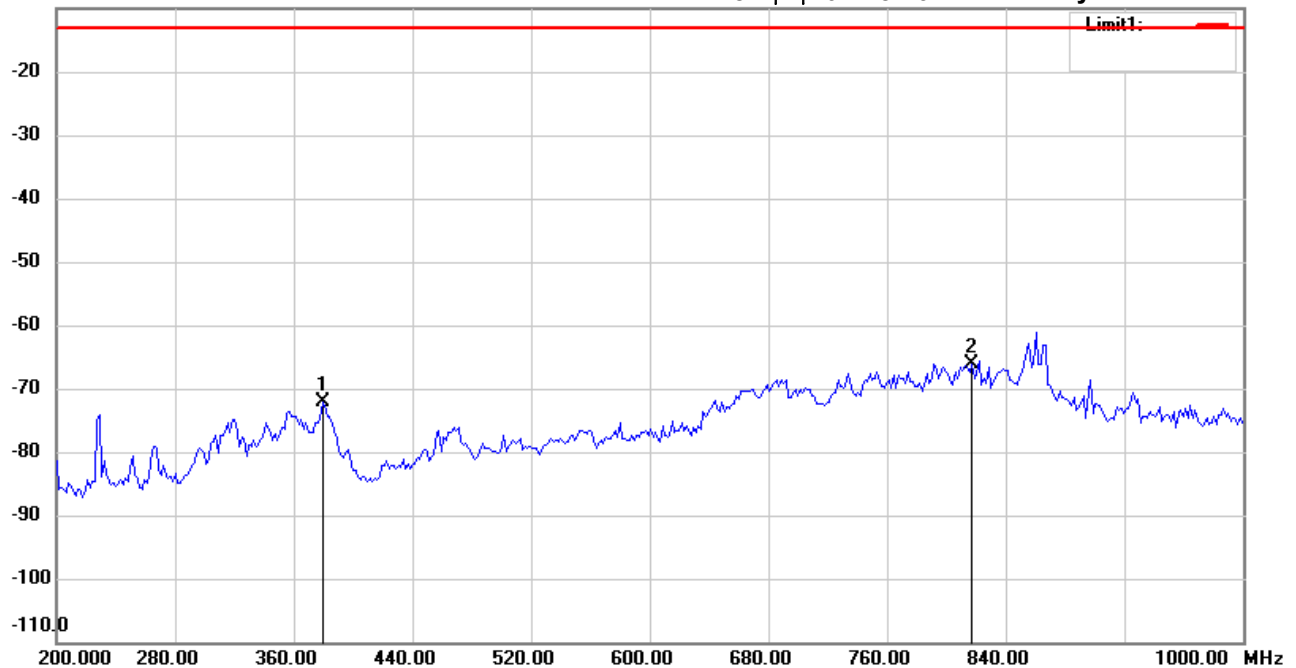
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:18:19

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	379.5591	-62.23	peak	-9.87	-72.10	-13.00	150	160	-59.10	
*	817.2345	-63.65	peak	-2.36	-66.01	-13.00	150	245	-53.01	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #1

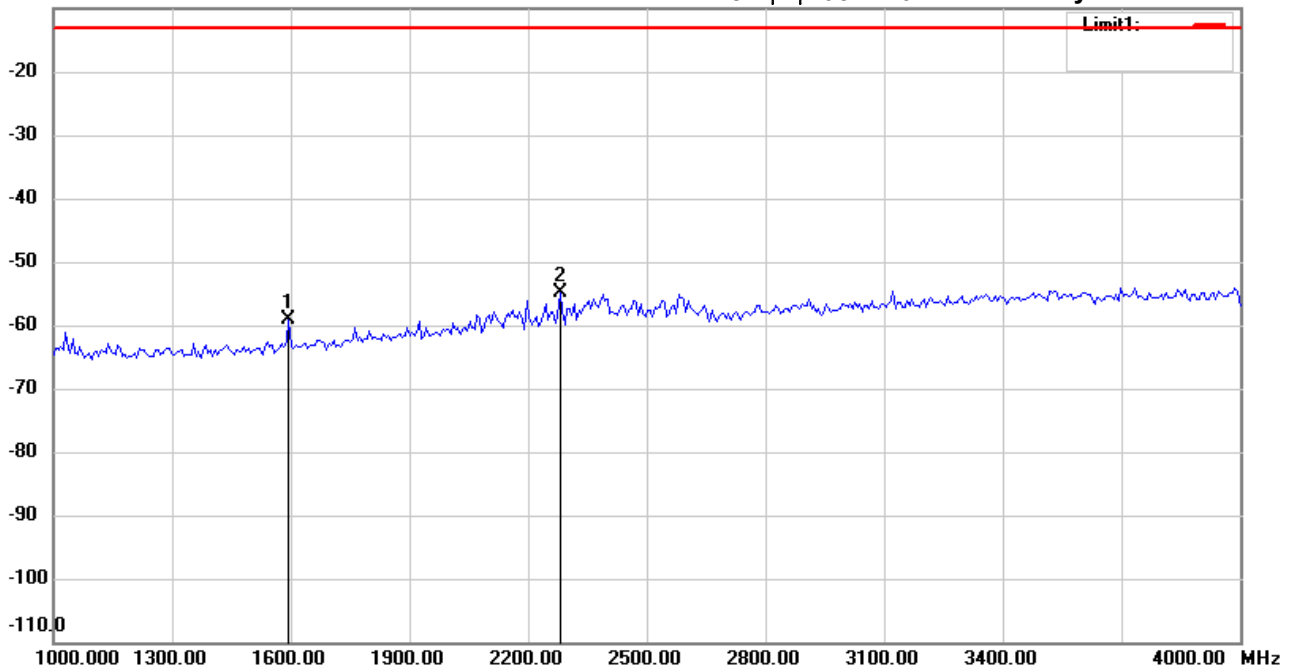
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:17:01

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1595.190	-57.60	peak	-1.57	-59.17	-13.00	150	245	-46.17	
*	2280.561	-57.47	peak	2.62	-54.85	-13.00	150	160	-41.85	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #3

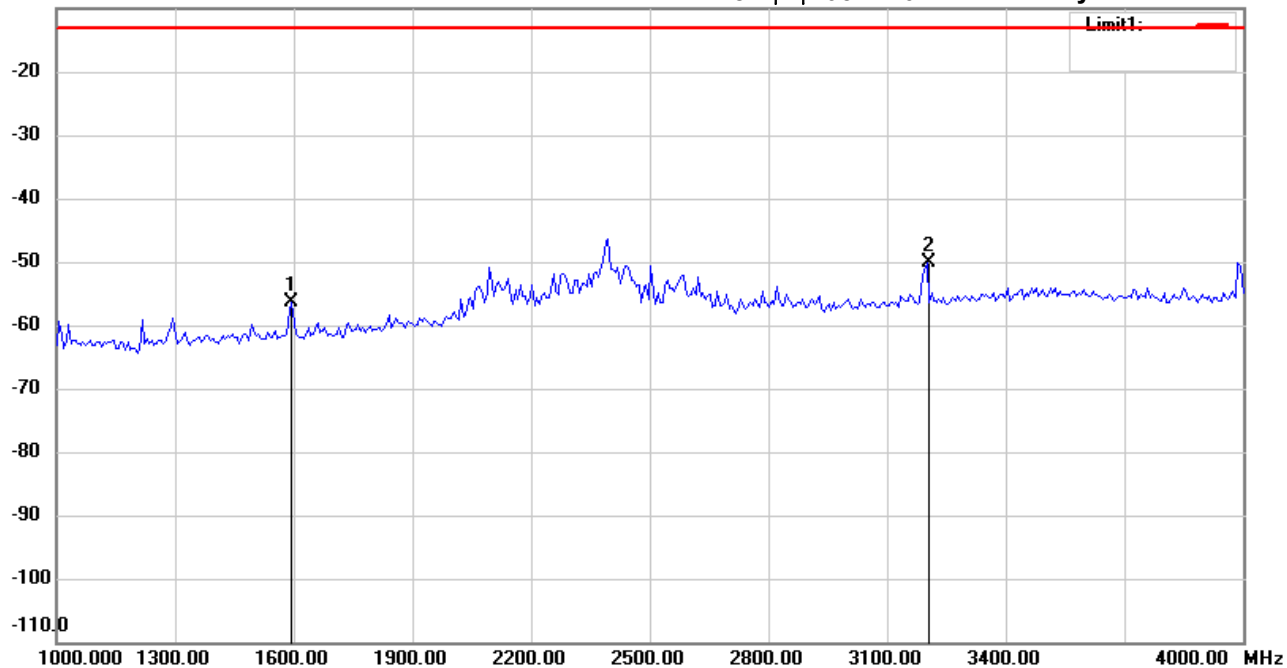
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:21:01

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1595.190	-56.74	peak	0.25	-56.49	-13.00	150	160	-43.49	
*	3200.401	-56.20	peak	6.16	-50.04	-13.00	150	330	-37.04	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #2

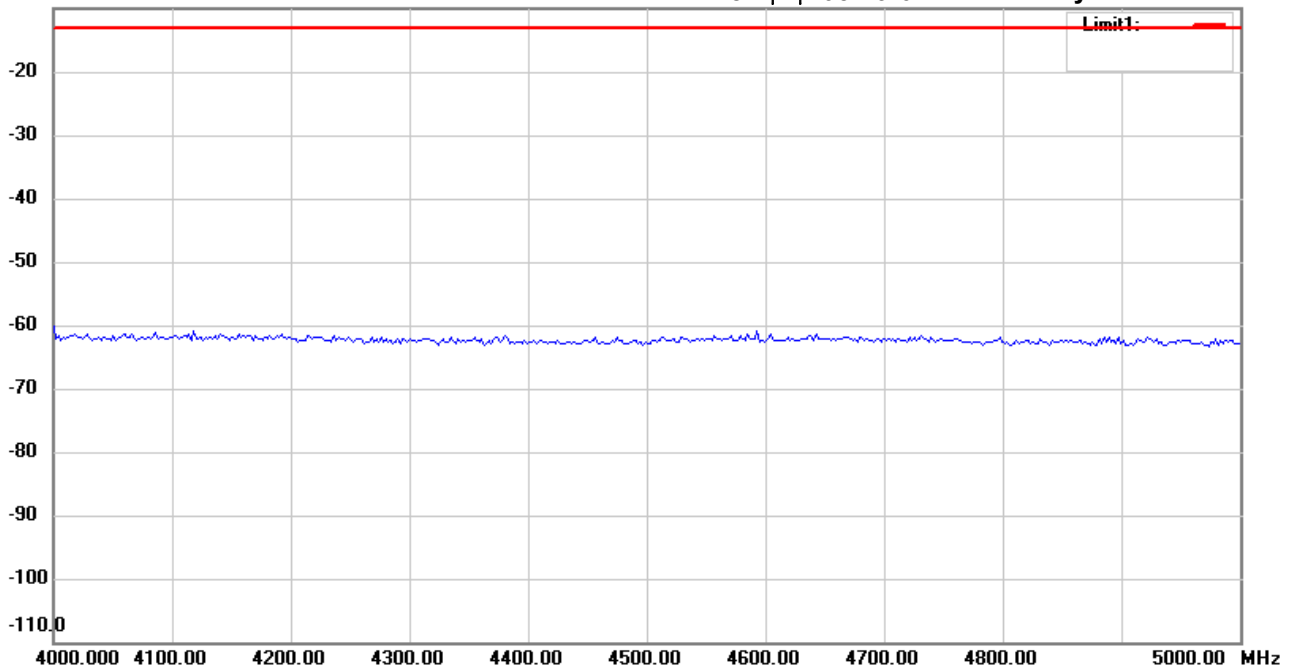
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:19:07

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #4

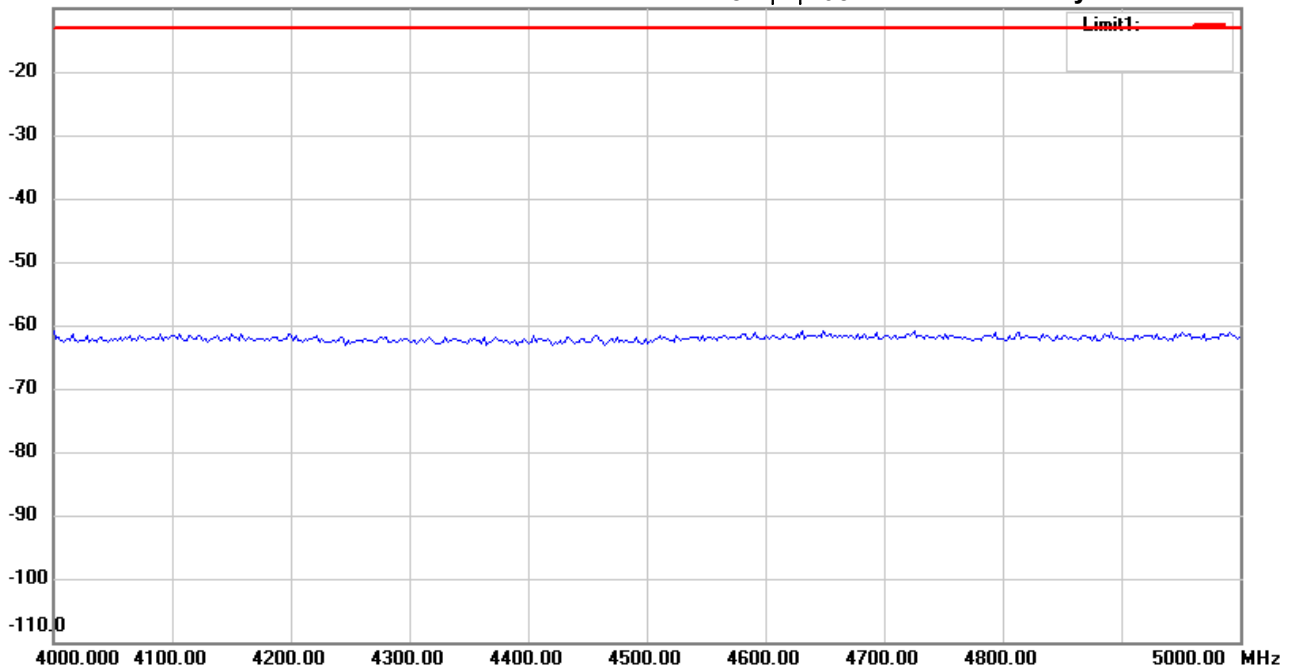
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:22:12

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 860.0125MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

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



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Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

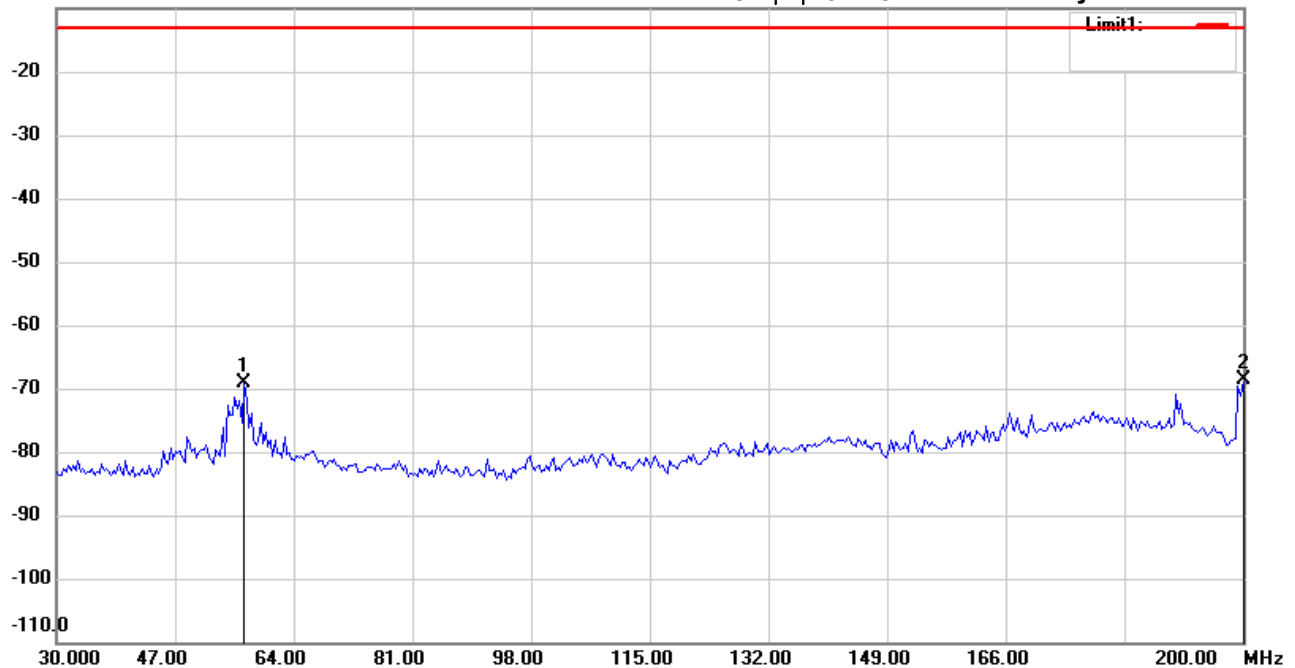
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:48:14

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: **Horizontal**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	56.9138	-90.83	peak	21.64	-69.19	-13.00	150	305	-56.19	
*	200.0000	-90.39	peak	21.71	-68.68	-13.00	150	220	-55.68	

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



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Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

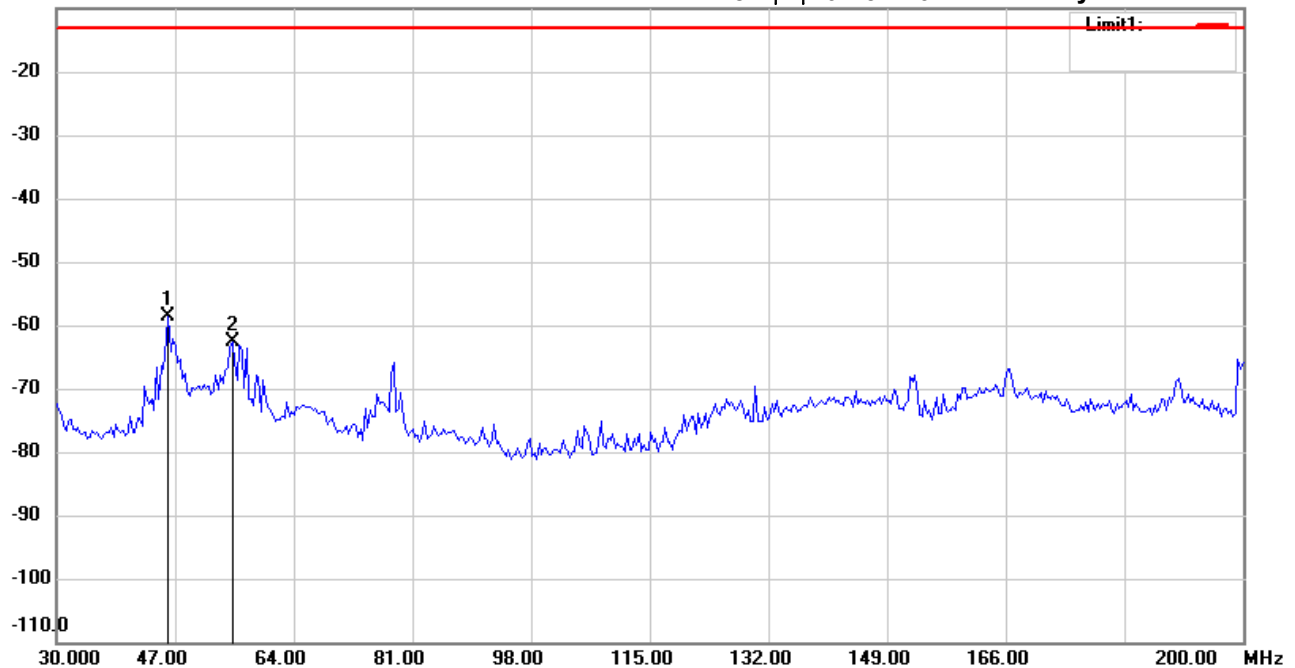
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:51:46

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	46.0120	-79.69	peak	21.09	-58.60	-13.00	150	330	-45.60	
	55.2104	-84.16	peak	21.46	-62.70	-13.00	150	160	-49.70	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

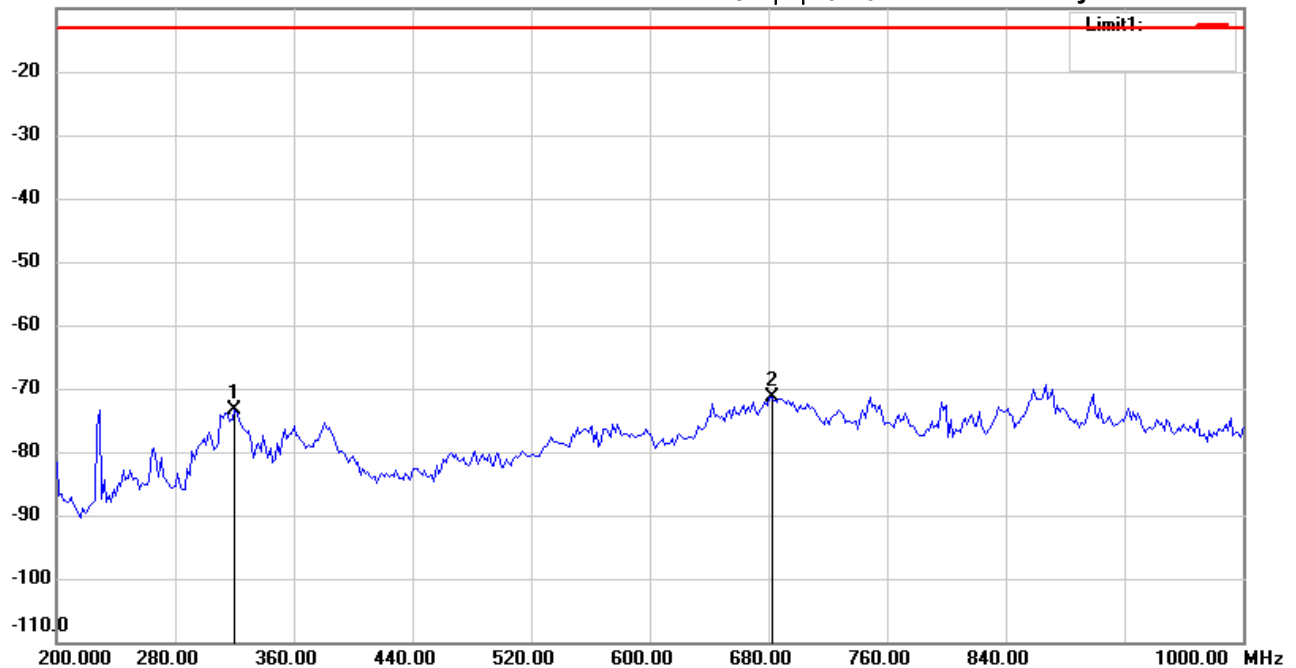
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:07:47

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	320.2405	-63.07	peak	-10.35	-73.42	-13.00	150	245	-60.42	
*	680.9620	-68.83	peak	-2.61	-71.44	-13.00	150	160	-58.44	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

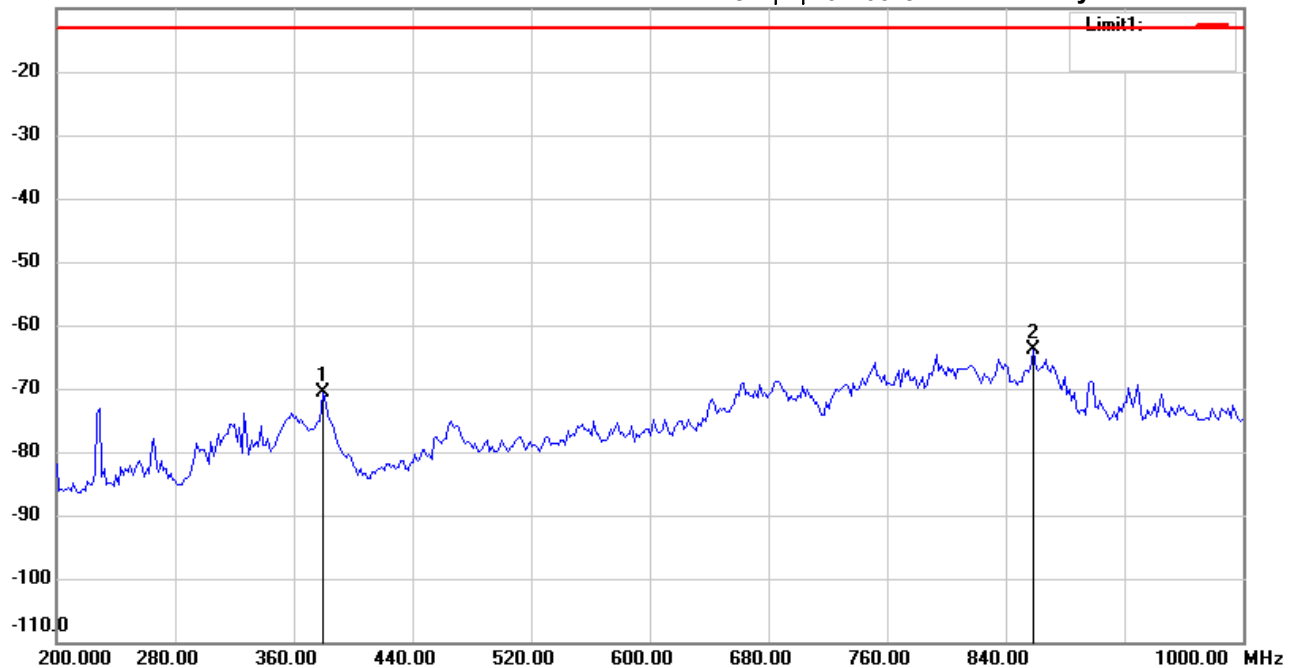
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:09:54

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	379.5591	-60.79	peak	-9.87	-70.66	-13.00	150	330	-57.66	
*	858.9178	-62.09	peak	-1.89	-63.98	-13.00	150	160	-50.98	

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



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Radiated Emission Measurement

Operator: Kent

File :3

Data :#1

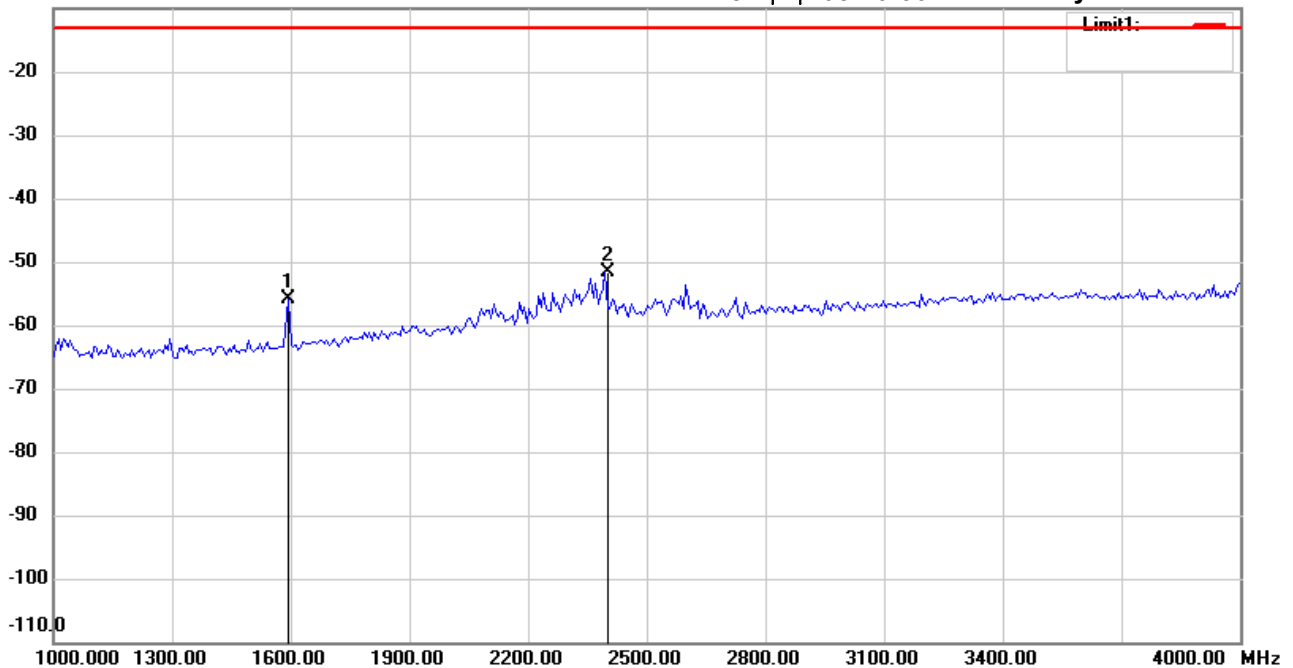
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:40:36

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1595.190	-54.33	peak	-1.57	-55.90	-13.00	150	245	-42.90	
*	2394.790	-54.90	peak	3.23	-51.67	-13.00	150	160	-38.67	

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



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Radiated Emission Measurement

Operator: Kent

File :3

Data :#3

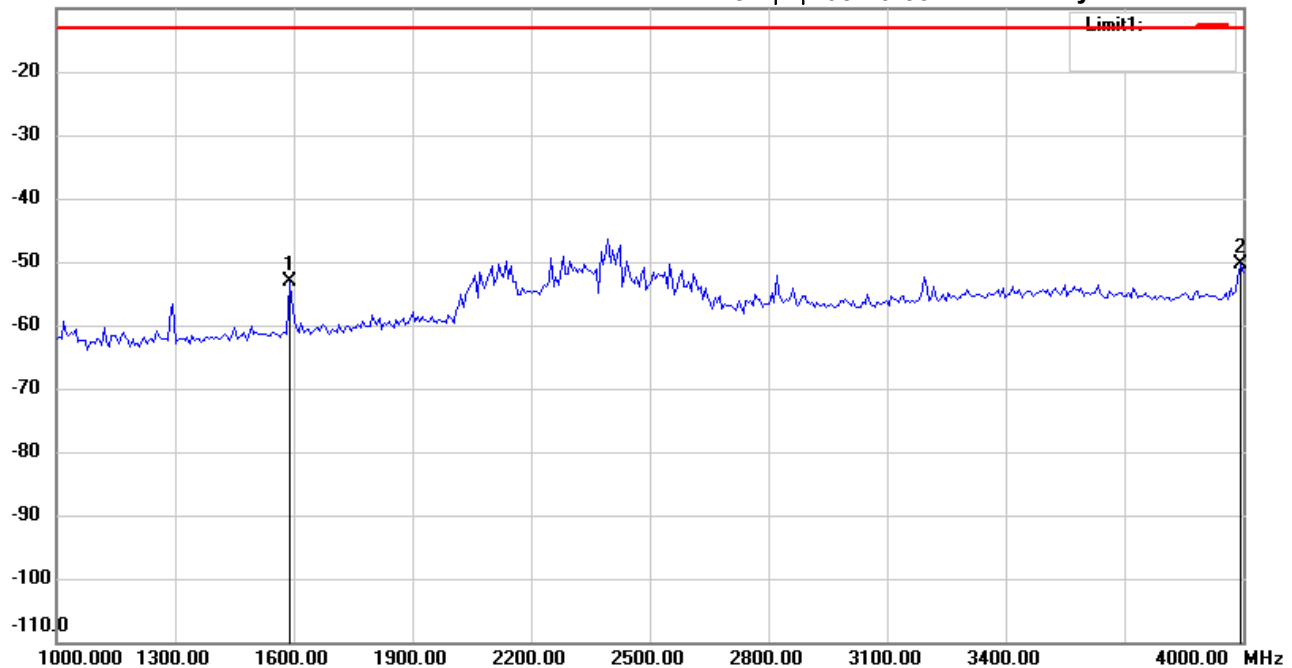
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:43:53

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1589.178	-53.29	peak	0.21	-53.08	-13.00	150	245	-40.08	
*	3993.988	-57.69	peak	7.24	-50.45	-13.00	150	160	-37.45	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #2

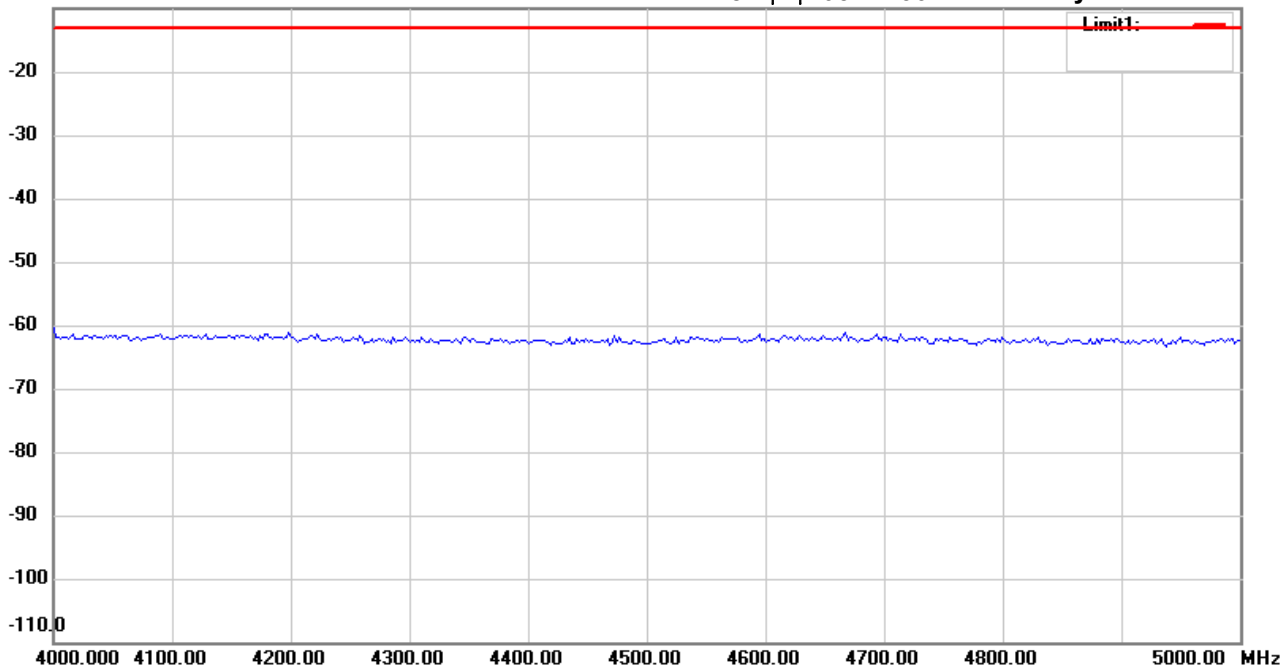
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:41:36

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #4

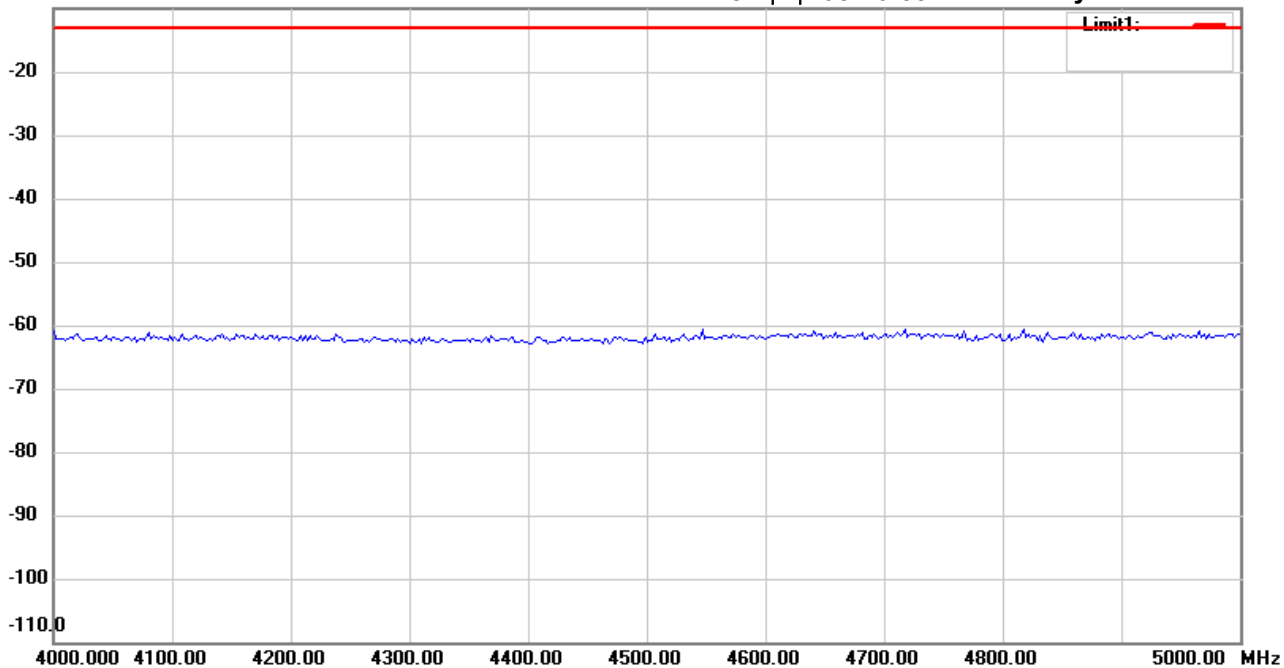
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:46:55

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 866MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Kent

File :1

Data :#1

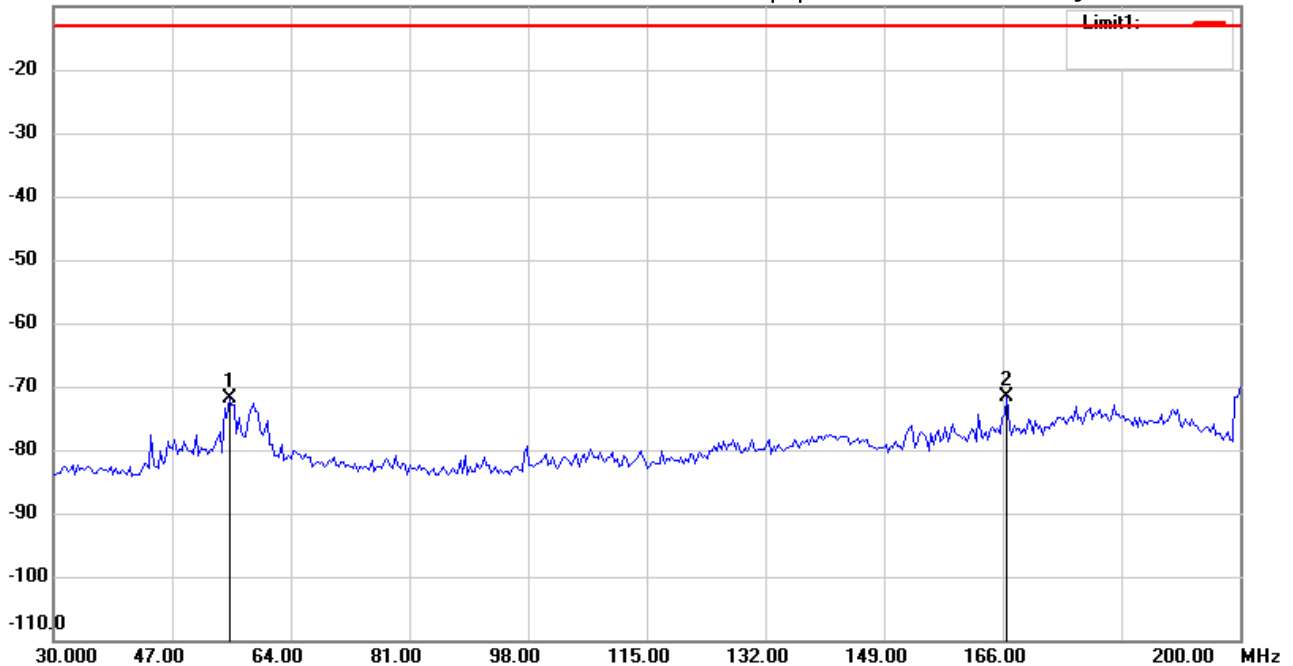
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:49:16

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	55.2104	-93.37	peak	21.56	-71.81	-13.00	150	245	-58.81	
*	166.6132	-92.99	peak	21.41	-71.58	-13.00	150	130	-58.58	

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



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Radiated Emission Measurement

Operator: Kent

File :1

Data :#2

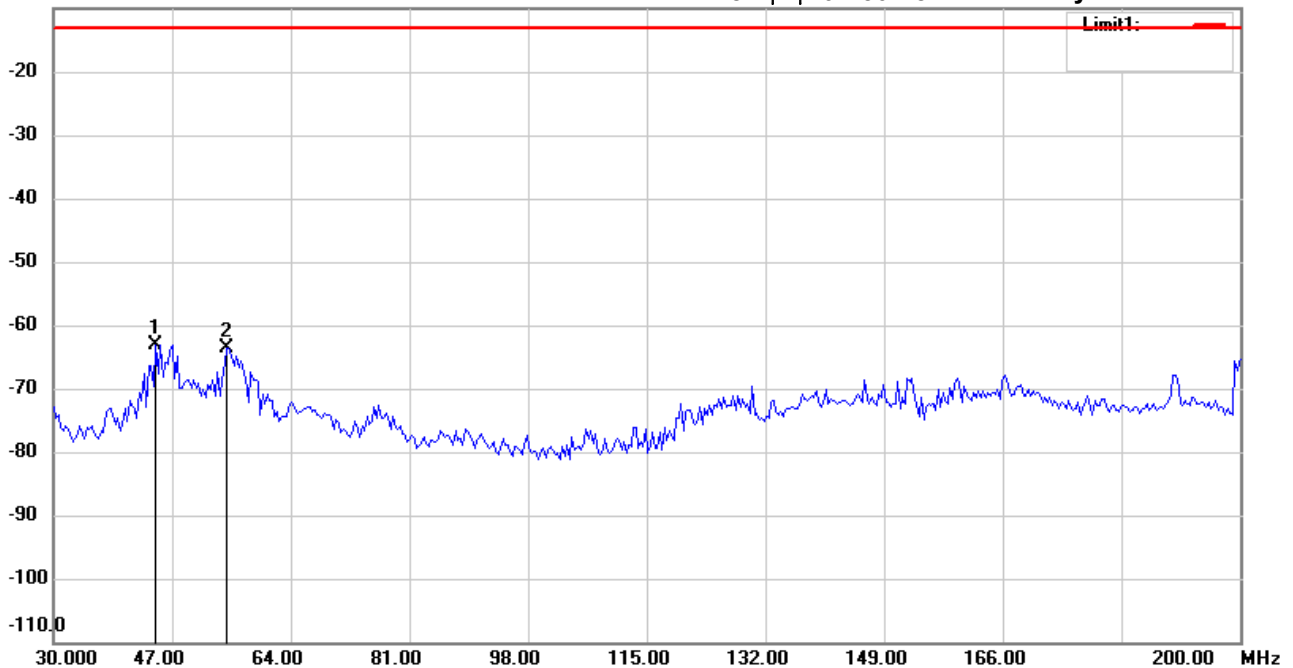
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 07:50:48

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	44.6493	-84.06	peak	21.02	-63.04	-13.00	150	245	-50.04	
	54.8697	-85.09	peak	21.45	-63.64	-13.00	150	160	-50.64	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #1

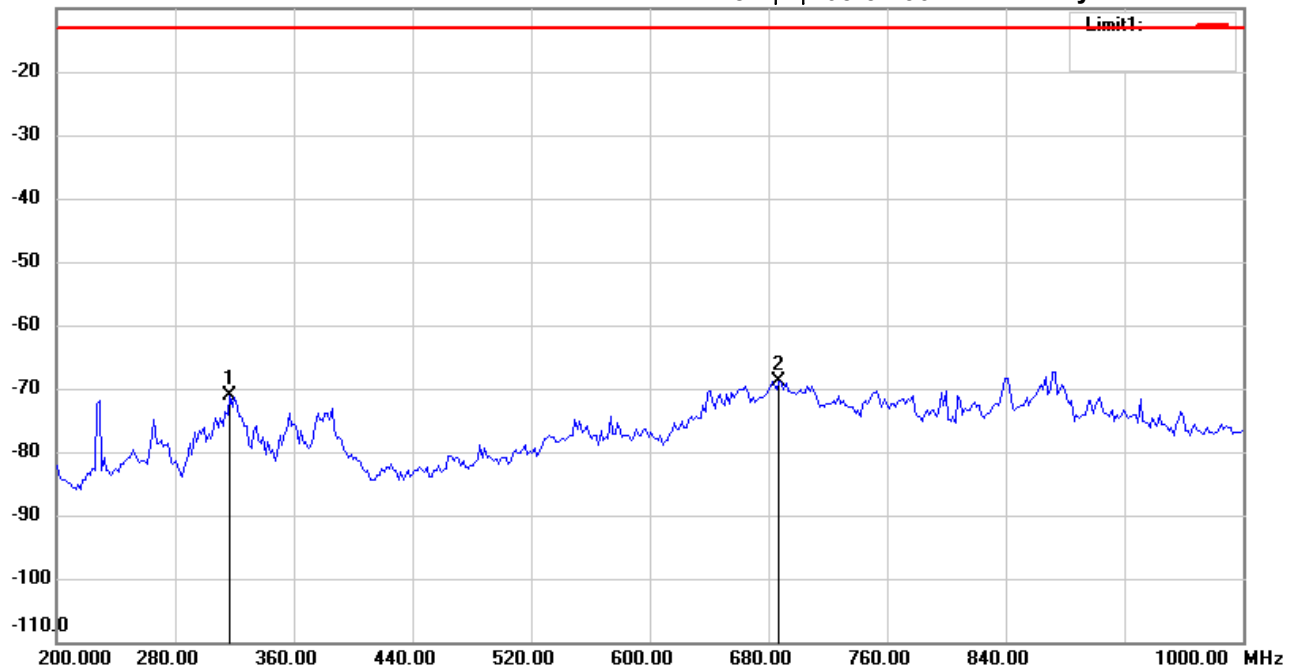
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:57:36

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	317.0341	-60.66	peak	-10.35	-71.01	-13.00	150	160	-58.01	
*	687.3747	-66.17	peak	-2.60	-68.77	-13.00	150	345	-55.77	

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



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Radiated Emission Measurement

Operator: Kent

File : 2

Data : #2

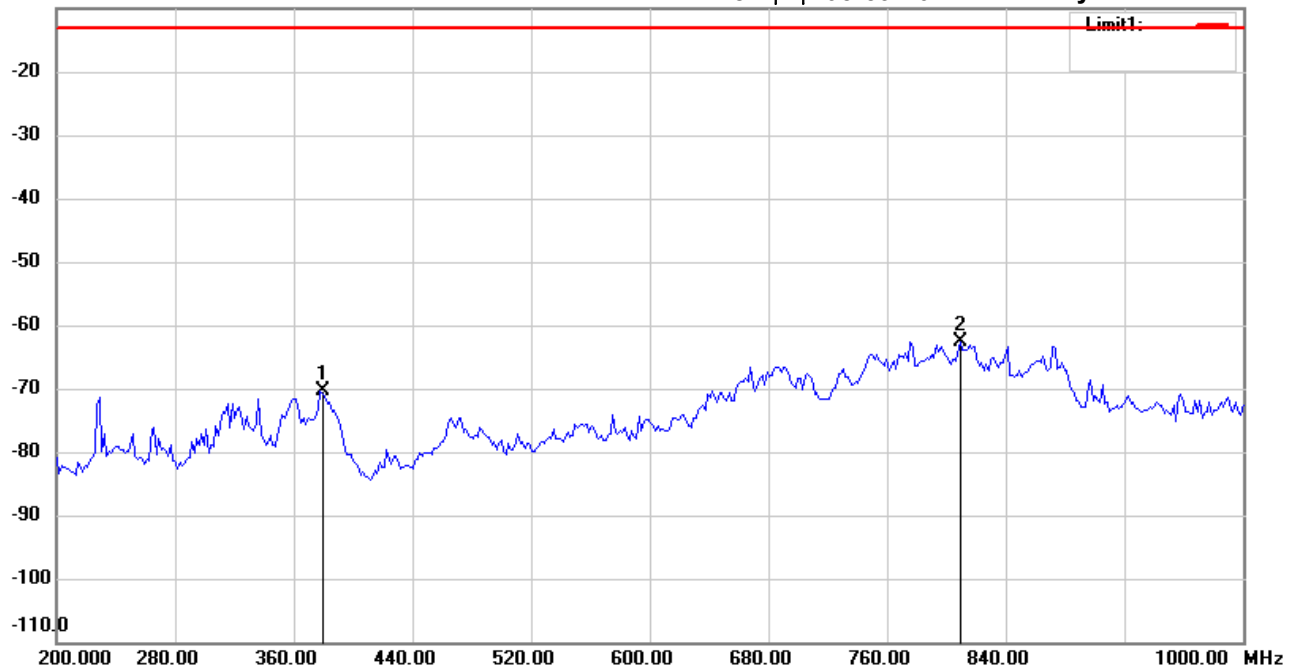
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:59:40

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	377.9560	-60.55	peak	-9.82	-70.37	-13.00	150	160	-57.37	
*	809.2184	-60.08	peak	-2.52	-62.60	-13.00	150	330	-49.60	

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



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

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #1

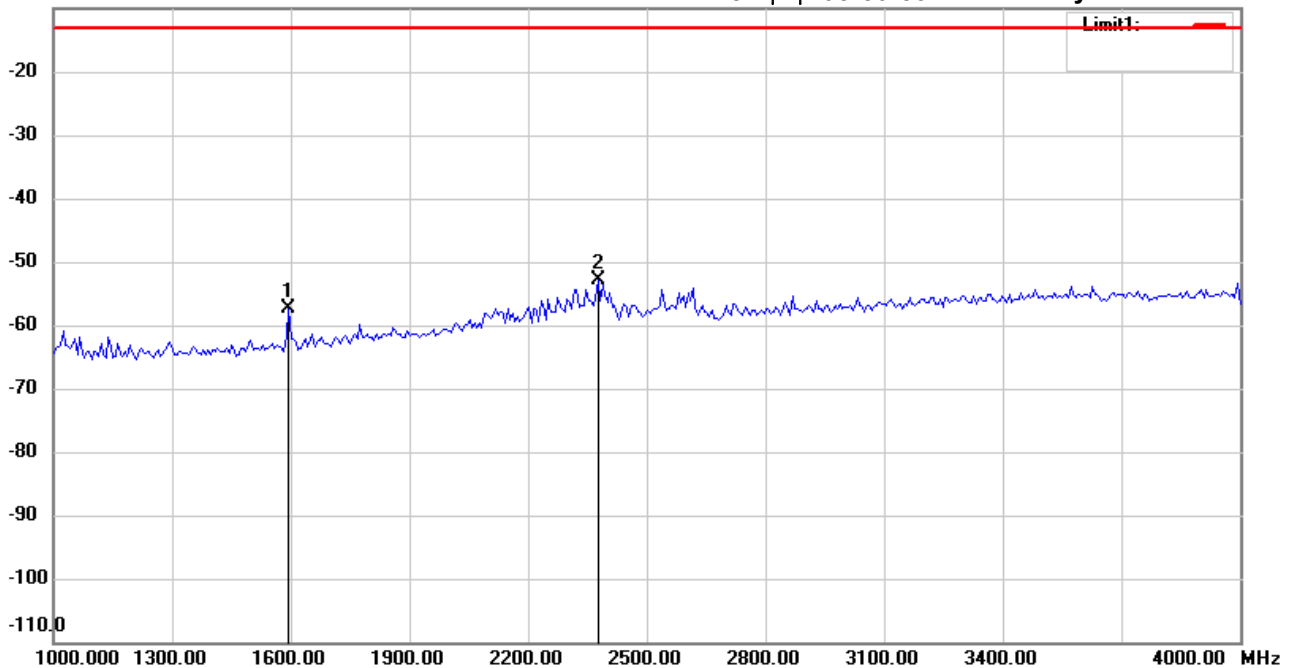
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:50:53

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1595.190	-55.68	peak	-1.57	-57.25	-13.00	150	330	-44.25	
*	2376.753	-56.08	peak	3.14	-52.94	-13.00	150	160	-39.94	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #3

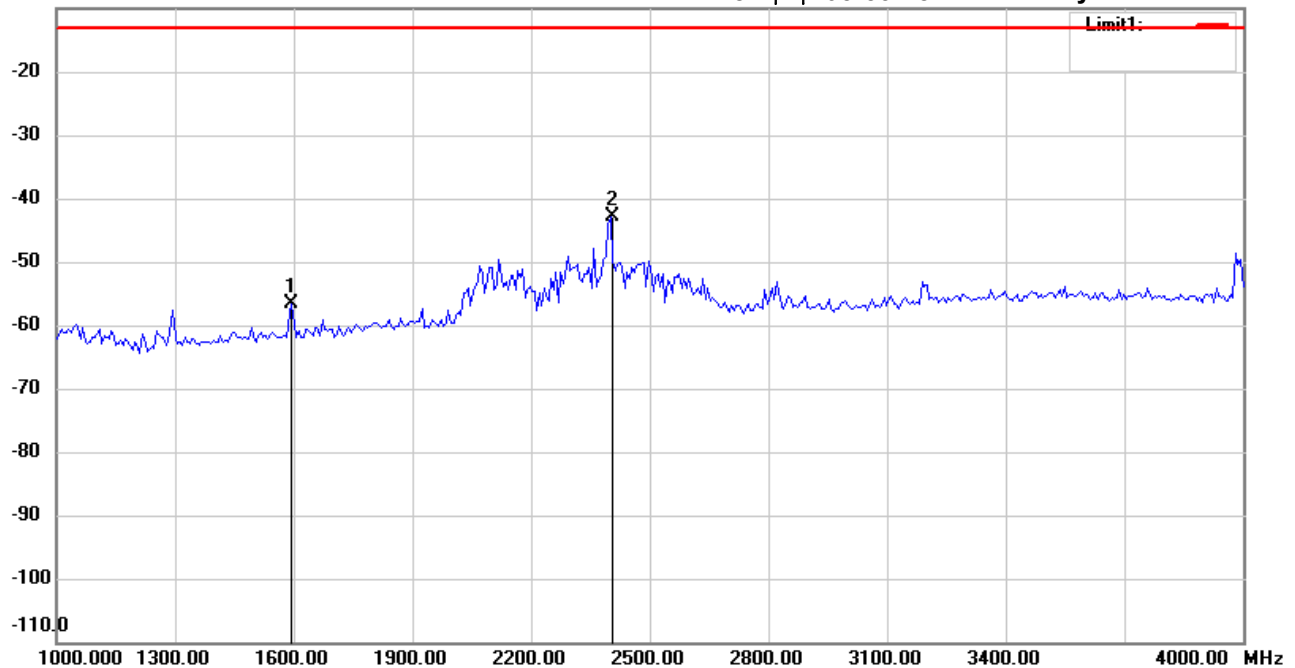
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:53:18

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1595.190	-56.75	peak	0.25	-56.50	-13.00	150	330	-43.50	
*	2400.802	-47.79	peak	4.81	-42.98	-13.00	150	160	-29.98	

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



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Radiated Emission Measurement

Operator: Kent

File : 3

Data : #2

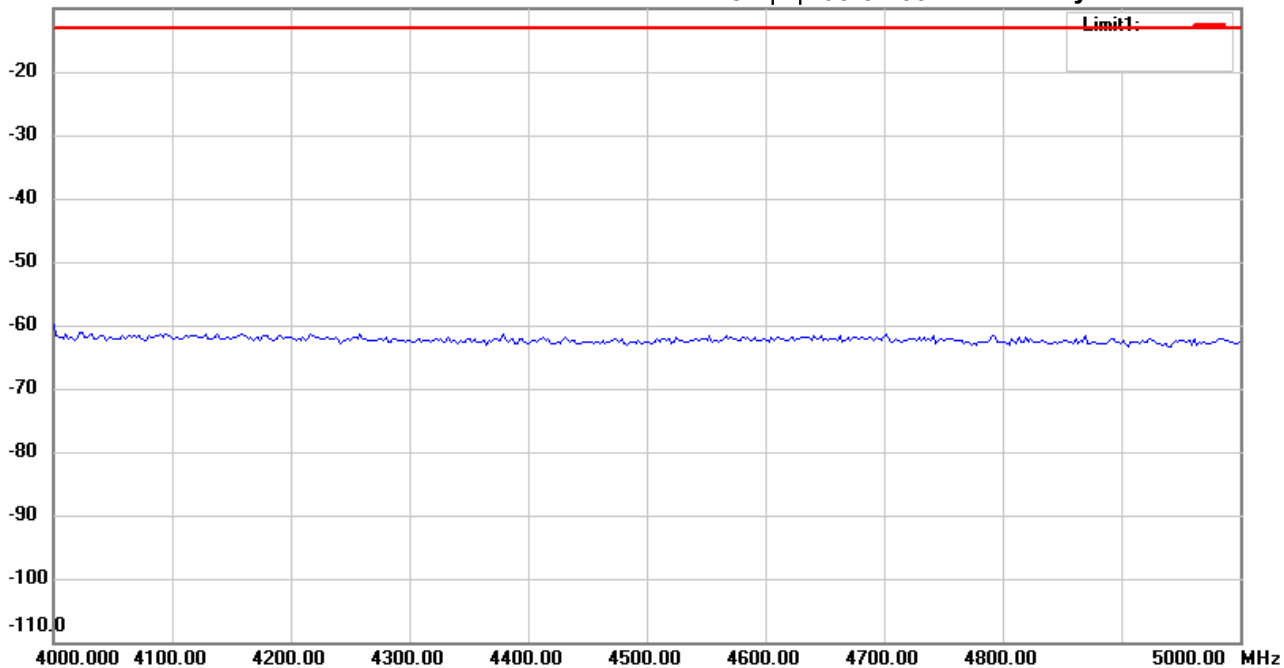
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:51:55

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

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



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Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Kent

File : 3

Data : #4

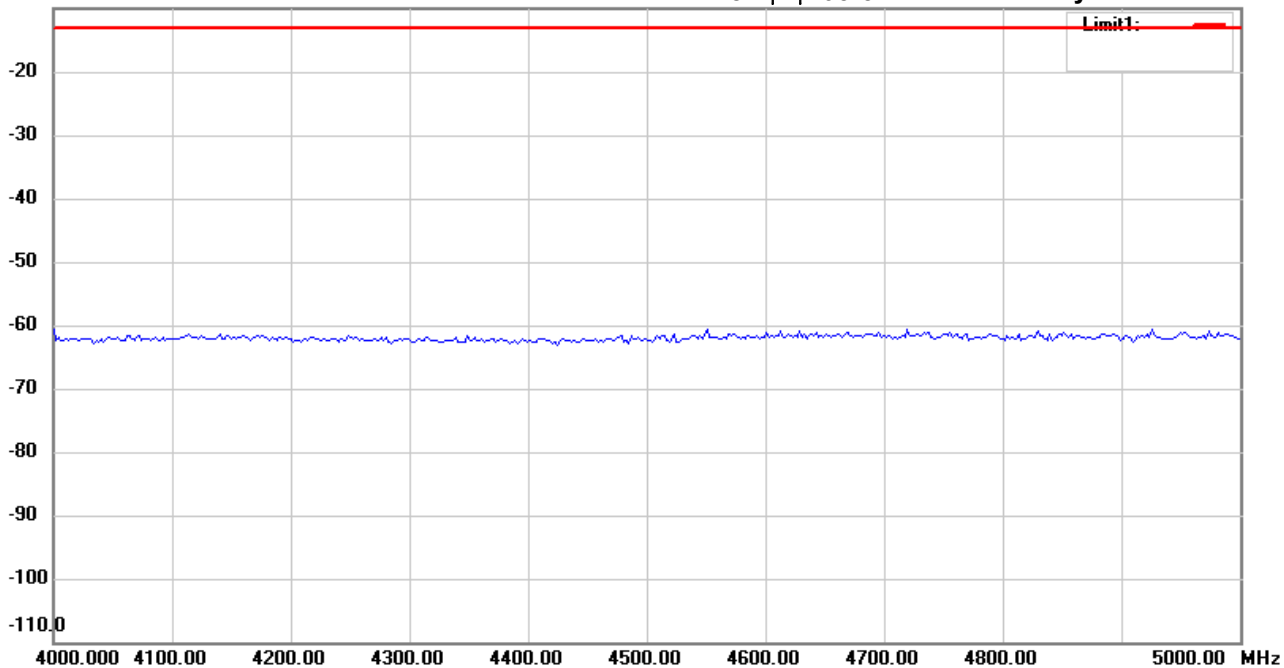
Date: 2018/5/9

Temperature: 24 °C

-10.0 dBm

Time: 下午 05:54:14

Humidity: 60 %



Site : Chamber

Condition : FCC_part 90 RE

EUT : W6M21804-18005

M/N:

Test Mode : TX 871.9875MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

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