

**FCC PART 15 SUBPART C TEST REPORT**

**for**

**Carbon Monoxide Detector**

**Model No.: COx-xxxxx-xxxxx Series (x=0~9, A~Z or  
blank)**

**FCC ID: GX9CO8**

**of**

Applicant: **CLIMAX TECHNOLOGY CO., LTD.**

Address: **No. 258, Sinhu 2nd Rd., Neihu District, Taipei City 114,  
Taiwan (R.O.C.)**

Tested and Prepared

by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: TW1477, TW0020, TW1072**

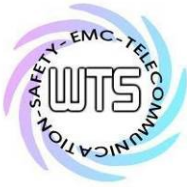
**Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1**

**A2LA Accredited No.: 2732.01**



**Report No.: W6M21805-18065-C-1**

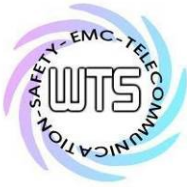
6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



## TABLE OF CONTENTS

1	General Information.....	2
1.1	Notes .....	2
1.2	Testing laboratory .....	3
1.2.1	Location .....	3
1.2.2	Details of accreditation status .....	3
1.3	Details of approval holder.....	3
1.4	Application details .....	4
1.5	Test item .....	4
1.6	Test standards .....	4
2	Technical test.....	5
2.1	Summary of test results.....	5
2.2	Test environment .....	5
2.3	Test equipment utilized.....	6
2.4	General Test Procedure.....	11
3	Test results (enclosure) .....	12
3.1	Transmission Requirements.....	13
3.1.1	Limit of Transmission Time .....	13
3.1.2	Active Time .....	13
3.2	Output Power (Field Strength).....	14
3.3	Out of Band Radiated Emissions .....	16
3.4	Transmitter Radiated Emissions in restricted Bands .....	17
3.5	Spurious Emission radiated, Transmitter.....	18
3.6	Channel Bandwidth.....	20
3.7	Antenna requirement.....	21
3.8	Duty Cycle .....	22
3.9	Conducted Measurement at (AC) Power Line.....	23

Appendix: Diagrams



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

## 1 General Information

### 1.1 Notes

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

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

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

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

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

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

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

### Tester:

July 12, 2018	Leon Chueh	<i>leon Chueh</i>
Date	WTS-Lab. Name	Signature

### Technical responsibility for area of testing:

July 12, 2018	Kevin Wang	<i>Kevin Wang</i>
Date	WTS Name	Signature



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

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

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

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

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

Tel : 886-2-66068877

Fax : 886-2-66068879

### **1.2.2 Details of accreditation status**

Accredited testing laboratory

A2LA accredited number: 2732.01

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

Industry Canada filed test laboratory Reg. No. IC 5769-A1, 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 : CLIMAX TECHNOLOGY CO., LTD.

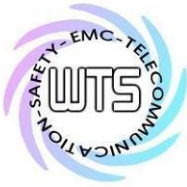
Street : No. 258, Sinhu 2nd Rd., Neihu District,

Town : Taipei City 114,

Country : Taiwan (R.O.C.)

Telephone : +886-2-2794-0001

Fax : +886-2-2792-6618



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **1.4 Application details**

Date of receipt of test item: May 04, 2018  
Date of test: from May 07, 2018 to July 11, 2018

### **1.5 Test item**

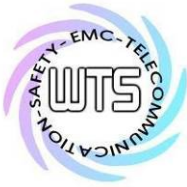
Description of test item: Carbon Monoxide Detector  
Type identification: COx-xxxxx-xxxxx Series (x=0~9, A~Z or blank)  
Brand name: ./.  
Multi-listing model number: ./.  
Transmitting frequency: 433.82 MHz  
Operation mode: simplex  
Voltage supply: Battery 1.5Vdc\*3  
(The device is tested under fresh battery condition.)  
Highest clock frequency: 433.82 MHz  
Antenna type: Monopole Antenna  
Photos: see Annex

#### **Manufacturer (if applicable)**

Name: ./.  
Street: ./.  
Town: ./.  
Country: ./.  
Additional information: ./.

### **1.6 Test standards**

Technical standard : FCC RULES PART 15 SUBPART C § 15.231 (a) (2017-10)



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

## **2 Technical test**

### **2.1 Summary of test results**

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

**or**

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

### **2.2 Test environment**

Relative humidity content: 20 ... 75 %  
Air pressure: 86 ... 103 kPa  
Details of power supply: Battery 1.5Vdc\*3

#### **Special Statement:**

1. This test report is valid in connection to the model has been tested, any modification to the product which is different from the test model will avoid the certification of the test report.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.
3. The x in model number is representing different case shape, case colors, led mask color, and control ID.
4. The model number of EUT is CO-8. This model does not contain logo.



Registration number: W6M21805-18065-C-1  
FCC ID: GX9C08

## 2.3 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2018/5/30	2019/5/29
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2017/10/26	2018/10/25
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2018/3/23	2019/3/22
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2017/8/22	2018/8/21
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2017/7/14	2018/7/13
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2017/9/1	2018/8/31
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2017/8/31	2018/8/30
ETSTW-CE 024	IMPEDANCE STABILIZATION NETWORK	ISN T800	29454	TESEQ	2018/6/15	2019/6/14
ETSTW-CE 027	COUPLING AND DECOUPLING NETWORK	CDN ST08AS	38087	TESEQ	Function Test	
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2018/7/2	2019/7/1
ETSTW-CE 030	CISPR Passive probe	PMM SHC-1-1000	1021X30803	Narda S.T.S/PMM	2018/3/9	2019/3/8
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2017/8/7	2018/8/6
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	Function Test	
ETSTW-CS 010	6 dB Attenuator	SA3N1007-06	None	AISI	Function test	
ETSTW-CS 011	ESG Analog Signal Generator	E4428C	MY45280875	AGILENT	2018/7/2	2019/7/1
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2018/5/30	2019/5/29
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/21	2019/5/20
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2017/8/25	2018/8/24
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	03469	Schwarzbeck	2017/9/18	2018/9/17
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 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2018/4/19	2019/4/18
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2018/7/2	2019/7/1
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	ETS-Lindgren	Function Test	
ETSTW-RE 029	Biconical Antenna	3109	33524	ETS-Lindgren	Function Test	
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2018/3/26	2019/3/25
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2017/9/8	2018/9/7
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2017/7/17	2018/7/16
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2017/9/8	2018/9/7
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2018/1/23	2019/1/22



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

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 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2017/12/14	2018/12/13
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 061	Amplifier Module	CHC 1	None	ETS	2018/5/14	2019/5/13
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 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2018/3/30	2019/3/29
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 073	Power Meter	N1911A	MY45100769	Agilent	2018/1/22	2019/1/21
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2018/1/22	2019/1/21
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
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2018/5/29	2019/5/28
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2018/2/27	2019/2/26
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 133	EXA Signal Analyzer	N9010A	MY53470566	Agilent	2018/4/20	2019/4/19
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2018/4/19	2019/4/18
ETSTW-RE 135	EXG Analog Signal Generator	N5171B	MY53050476	Agilent	2018/4/19	2019/4/18
ETSTW-RE 136	USB Wideband Power Sensor	U2021XA	MY54070006	Agilent	2018/4/24	2019/4/23
ETSTW-RE 137	USB Wideband Power Sensor	U2021XA	MY54020004	Agilent	2018/4/24	2019/4/23
ETSTW-RE 138	USB Wideband Power Sensor	U2021XA	MY54110003	Agilent	2018/4/24	2019/4/23
ETSTW-RE 139	USB Wideband Power Sensor	U2021XA	MY54110004	Agilent	2018/4/24	2019/4/23
ETSTW-RE 140	Simultaneous sampling DAQ	U2531A	TW56143501	Agilent	Function Test	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2018/3/30	2019/3/29





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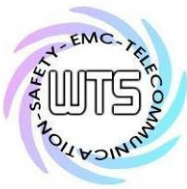
ETSTW-RE 146	Preamplifier	JPA-10M1G	15090004	JPT	2018/6/9	2019/6/8
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2018/3/23	2019/3/22
ETSTW-RE 148	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04006	ETC	2018/6/5	2019/6/4
ETSTW-RE 149	Blocking Test System	AD211	TW5451133	Keysight	Function Test	
ETSTW-RE 150	Blocking Test System	AD211	TW5451133	Keysight	Function Test	
ETSTW-RE 151	Thermohygrometer	608-h1	45104376	TESTO	2017/8/30	2018/8/29
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	093	EMC-PARTNER	2018/2/6	2019/2/5
ETSTW-EMI 010	AC Power Source	PS3	0219	EMC PARTNER	2018/2/7	2019/2/6
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2018/5/10	2019/5/9
ETSTW-EMS 001	BASELSTRASSE 160 CH-4242 LAUFEN	CN-EFT1000	354	EMC-PARTNER	Function Test	
ETSTW-EMS 002	Frequency Converter	YF-6020	0308014	None	Function Test	
ETSTW-EMS 003	EMC Immunity Test System	TRA2000IN6	579	EMC-PARTNER	2017/8/31	2018/8/30
ETSTW-EMS 009	Magnetic Field Antenna	MF1000-1	104	EMC-PARTNER	Function Test	
ETSTW-EMS 010	Coupling De-coupling Network	CDN-UTP8	014	EMC-PARTNER	Function Test	
ETSTW-EMS 012	EM Injection Clamp	F-203I-23MM	476	FCC	2018/6/15	2019/6/14
ETSTW-EMS 016	EMF Tester	1390	071208732	TES	2017/8/28	2018/8/27
ETSTW-EMS 017	Multimeter	DM-1220	518614	HILA	2017/8/18	2018/8/17
ETSTW-EMS 019	Electrostatic Discharge Simulator	ESS-2002	ESS06Y6300	NoiseKen	2017/9/13	2018/9/12
ETSTW-EMS 022	Transient Test System	TRANSIENT -3000 S	1303	EMC-PARTNER	2017/8/28	2018/8/27
ETSTW-EMS 023	Electrostatic Discharge Simulator	NSG 435	6984	TESEQ	2018/6/15	2019/6/14
ETSTW-EMS 024	Humidity Temperature Meter	TES-1260	160304437	TES	2017/8/18	2018/8/17
ETSTW-EMS 025	10/700 Surge Generator	SG-728G	EC0631106	3Ctest	2017/8/30	2018/8/29
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR	Function Test	
ETSTW-RS 007	14" COLOR VIDEO MONITOR	HS-CM145A	0512011548	None	Function Test	
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2018/1/18	2019/1/17
ETSTW-RS 010	Broadband Field Meter	NBM-520	C-0195	Narda	2017/11/8	2018/11/7
ETSTW-RS 011	RF Power Amplifier	150W1000	0464490	AR	Function Test	
ETSTW-RS 012	Log-Periodic Antenna	ATL80M1G	0348244	AR	Function Test	
ETSTW-RS 013	Stacked Log Periodic Antenna	STLP9149	473	RS	Function Test	
ETSTW-RS 014	Power Amplifier	AS0860B	1078553	MILMEGA	Function Test	
ETSTW-RS 015	SIGNAL GENERATOR	ITS6006B	37669	TESEQ	2018/3/16	2019/3/15
ETSTW-RS 016	Power sensor	PMR6006	75617	TESEQ	2018/3/16	2019/3/15
ETSTW-RS 017	Power sensor	PMR6006	75618	TESEQ	2018/3/16	2019/3/15
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	2018/1/15	2019/1/14



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ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2018/1/15	2019/1/14
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2018/1/15	2019/1/14
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2018/1/15	2019/1/14
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 002	Microwave Cable	SUCOFLEX 104 (S Cable 7)	238093	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S Cable 11)	209953	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 063	N type Cable (5m)	RG214/U	1249271	HUBER+SUHNER	Function Test	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2018/7/2	2019/7/1
ETSTW-Cable 023	BNC Cable	BNC Cable 3	None	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 024	BNC Cable	BNC Cable 4	None	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 025	BNC Cable	BNC Cable 5	None	JYE BAO CO.,LTD.	Function Test	
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 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 039	Microwave Cable	SUCOFLEX 104	316739	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 042	Microwave Cable	SUCOFLEX 104 (S Cable 22)	279847	HUBER+SUHNER	Function Test	
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 051	BNC Cable	BNC Cable 6	None	JYE BAO CO.,LTD.	2018/3/7	2019/3/6
ETSTW-Cable 052	BNC Cable	Clamp Cable	None	Schwarz beck	2018/3/7	2019/3/6
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8
ETSTW-Cable 065	N type Cable (5m)	RG214	None	DRAKA	Function Test	
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2017/8/31	2018/8/30
ETSTW-Cable 067	BNC Cable (1m)	RG213	None	ALLTESTEK	Function Test	
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2018/6/9	2019/6/8
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER	HARCS Version 4.20 Firmware Version 2.20	
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 003	EMS TEST SOFTWARE	i2	None	AUDIX	Version 3.2007-8-17b	
WTSTW-SW 005	GSM Fading Level Correction	GSMFadLevCor	None	R&S	Version 1.66	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 007	Keysight.EN300328.V191.Test	Keysight	None	Keysight	Version 1.0.0.0	

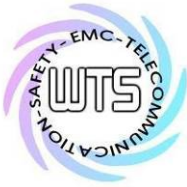


# ***Worldwide Testing Services(Taiwan) Co., Ltd.***

Registration number: W6M21805-18065-C-1

FCC ID: GX9C08

WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1
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Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

## **2.4 General Test Procedure**

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

**RADIATION INTERFERENCE:** The test procedure used was ANSI STANDARD C63.10-2013 6.3 using a spectrum analyzer. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was the 100 kHz and the video bandwidth was 300 kHz.

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

Example:

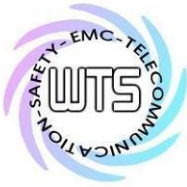
Freq (MHz)      METER READING + ACF + CABLE LOSS (to the receiver) = FS  
33                      20 dB $\mu$ V + 10.36 dB/m + 6 dB = 36.36 dB $\mu$ V/m @3m

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

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

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

**ANSI STANDARD C63.10-2009 B.2.7:** Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### 3 Test results (enclosure)

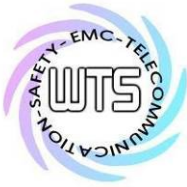
1st test

test after modification

production test

TEST CASE	Para. Number	Required	Test passed	Test failed
Transmission Requirements	FCC 15.231(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission	FCC 15.231(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bandwidth of Emission	FCC 15.231(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency Tolerance	FCC 15.231(d)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Period Alternate Field Strength Requirements	FCC 15.231(e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Antenna Requirement	FCC 15.203	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Conducted Measurement at (AC) Power Line	FCC 15.207	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **3.1 Transmission Requirements**

FCC 15.231(a)

#### **3.1.1 Limit of Transmission Time**

- According to 15.231(a)(1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
- According to 15.231(a)(2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.
- According to 15.231(a)(3), periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.
- According to 15.231(a)(4), intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.
- According to 15.231(a)(5), transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs (a)(1) and (a)(2) of this section, provided such transmission are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data.

#### **3.1.2 Active Time**

- This manually operated transmitter employs a switch that automatically deactivate the transmitter within 881.763527 ms of being released.
- This transmitter is operated by automatic activation and active will cease transmission in \_\_\_\_\_ ms after activation.
- Others: This product is employed for radio control purpose during emergencies. When emergency switch is pulled down, the EUT will transmit a signal around \_\_\_\_\_ ms and continue to retransmit the signal every 5 minutes during the pendency of the alarm condition.

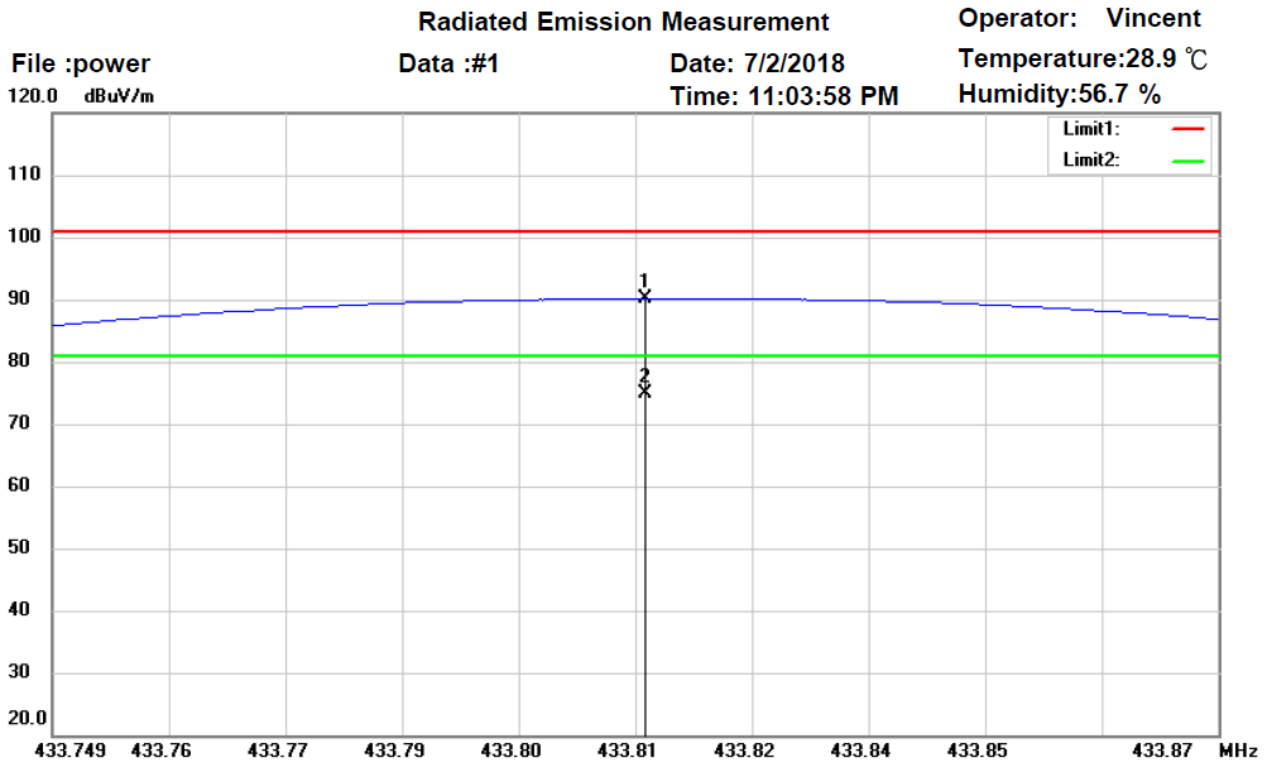
Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



Registration number: W6M21805-18065-C-1  
 FCC ID: GX9CO8

## 3.2 Output Power (Field Strength)



Site : Chamber

Condition : FCC 15.231(433MHz)Power(PK)

EUT : W6M21805-18065

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: *Horizontal*

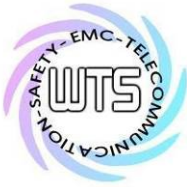
Power : 4.5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	433.8125	64.59	peak	25.49	90.08	100.80	100	85	-10.72	
*	433.8125	49.42	AVG	25.49	74.91	80.80	100	85	-5.89	







Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **3.3 Out of Band Radiated Emissions**

FCC Rule: 15.231(b) , 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Guidance on Measurement of pulsed emission: 15.35(c)

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

Duty Cycle correction =  $20 \log (\text{dwell time}/100\text{ms or one period})$

Limits:

For frequencies (Average measurements)

Correction factor conform 15.35 (c) (Average measurements)

Duty cycle correction :

Max. Peak reading – duty cycle correction

Max permitted average Limits = Max permitted Fundamental limit – 20 dB

For example for 433.82 fundamental carrier:

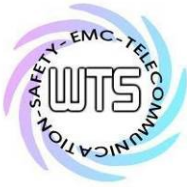
Max permitted average Limit:  $80.82 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 60.82 \text{ dB}\mu\text{V/m}$

For frequencies above 1GHz (Peak measurements).

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Explanation: See attached diagrams in appendix.

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



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

**3.4 Transmitter Radiated Emissions in restricted Bands**

FCC Rules: 15.231 (b), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 8000 MHz.

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

RES BW VID BW

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

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

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

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

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of pulsed emission:

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

For frequencies above 1GHz (Average measurements).

The correction factor, based on the channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = 20 log (dwell time/100ms)

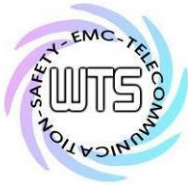
No duty cycle correction was added to the reading

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Above 960 MHz

For mode DSSS CW: 54 dBμV/m + 20 dB = 74 dBμV/m

Explanation: See attached diagrams in appendix.



Registration number: W6M21805-18065-C-1  
 FCC ID: GX9CO8

**3.5 Spurious Emission radiated, Transmitter**

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

The limits on the field strength of the spurious emission in the table § 15.231(b) are based on the fundamental frequency of the intentional radiator. Spurious emission shall be attenuated to the average (or alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength.

In addition, radiated emission which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (See § 15.205(c)).

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

Calculation of test results:

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

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

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

Summary table with radiated data of the test plots

COx-xxxxx-xxxxx Series  
 Model: (x=0~9, A~Z or blank) Date: --  
 Mode: 433.82MHz 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) Peak	Factor (dB)		Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
		Corr.	Duty	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21805-18065-C-1  
 FCC ID: GX9CO8

Polarization: Vertical

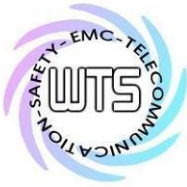
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

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

- Note**
1. Correction Factor = Antenna factor + Cable loss - Pre-amplifier
  2. The formula of measured value as: Test Result = Reading + Correction Factor
  3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
  4. All not in the table noted test results are more than 20 dB below the relevant limits.
  5. Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz = ± 2.58 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
  6. See attached diagrams in appendix.

All other not noted test plots do not contain significant test results in relation to the limits  
 Test results: The unit meet the FCC requirements.

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



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **3.6 Channel Bandwidth**

Measurement of Necessary Bandwidth (BN)

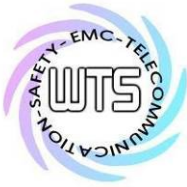
Used frequency	Bandwidth	Limit
433.82 MHz	53.10621242 kHz	1.08455 MHz

Explanation: The bandwidth fulfills the requirements of FCC § 15.231, see attached diagrams in appendix.

Limits:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



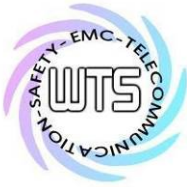
Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **3.7 Antenna requirement**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Explanation: This Monopole Antenna is integral antenna which passes antenna requirement.

The equipment meets the requirements	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
--------------------------------------	--	--------------------------------



Registration number: W6M21805-18065-C-1  
FCC ID: GX9CO8

### **3.8 Duty Cycle**

The correction factor, based on the channel dwell time in a 100ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the measured value.

Average Reading = Peak Reading (dBuV/m) + Duty Cycle Correction

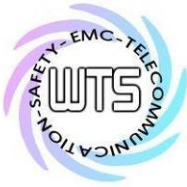
Duty Cycle Correction = 20 log (Cycle)

In order to determine the Duty Cycle, the EUT is measured as:

Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction 20*log(Duty Cycle)
Transmitting Mode	100	17.44489	0.174448898	-15.17

Explanation: See attached diagrams in appendix.

Test equipment used: ETSTW-RE 055, ETSTW-RE 004



Registration number: W6M21805-18065-C-1  
 FCC ID: GX9CO8

### 3.9 Conducted Measurement at (AC) Power Line

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

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

Frequency	Level	
	quasi-peak (dB $\mu$ V/m)	average (dB $\mu$ V/m)
-- kHz	--	--

**Note**

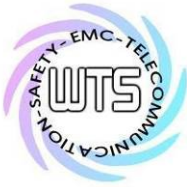
1. The formula of measured value as: **Test Result = Reading + Correction Factor**
2. The **Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty =  $\pm 1.54$  dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **This test is not required because the EUT is battery-used.**

**Limits:**

Frequency of Emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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





## **Appendix**

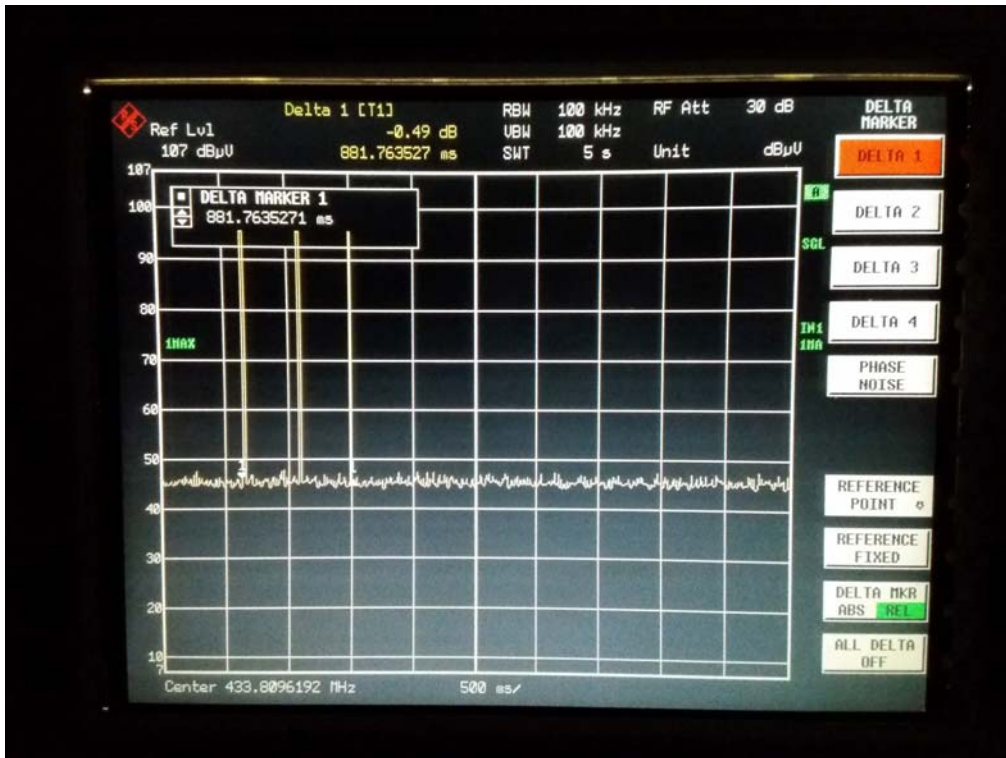
### **A Measurement diagrams**

1. Active Time
2. Bandwidth
3. Duty Cycle
4. Spurious Emissions radiated

Registration number: W6M21805-18065-C-1

FCC ID: GX9C08

## Active Time



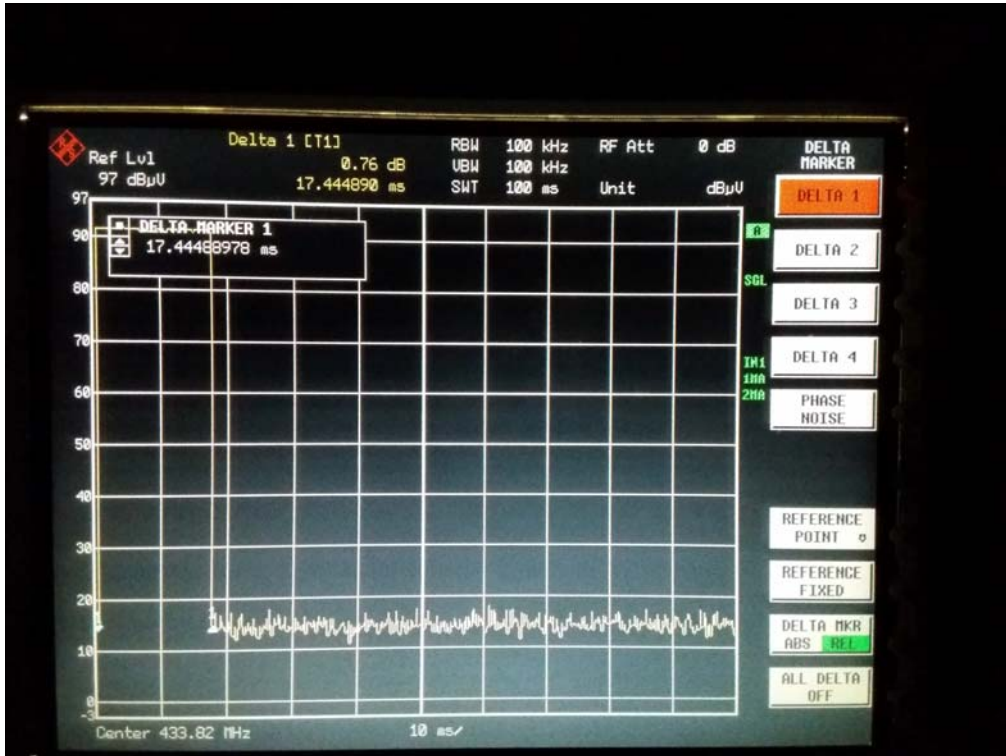
## Bandwidth





Registration number: W6M21805-18065-C-1  
FCC ID: GX9C08

**Duty Cycle**





Radiated Emission Measurement

Operator: Vincent

File :1

Data :#1

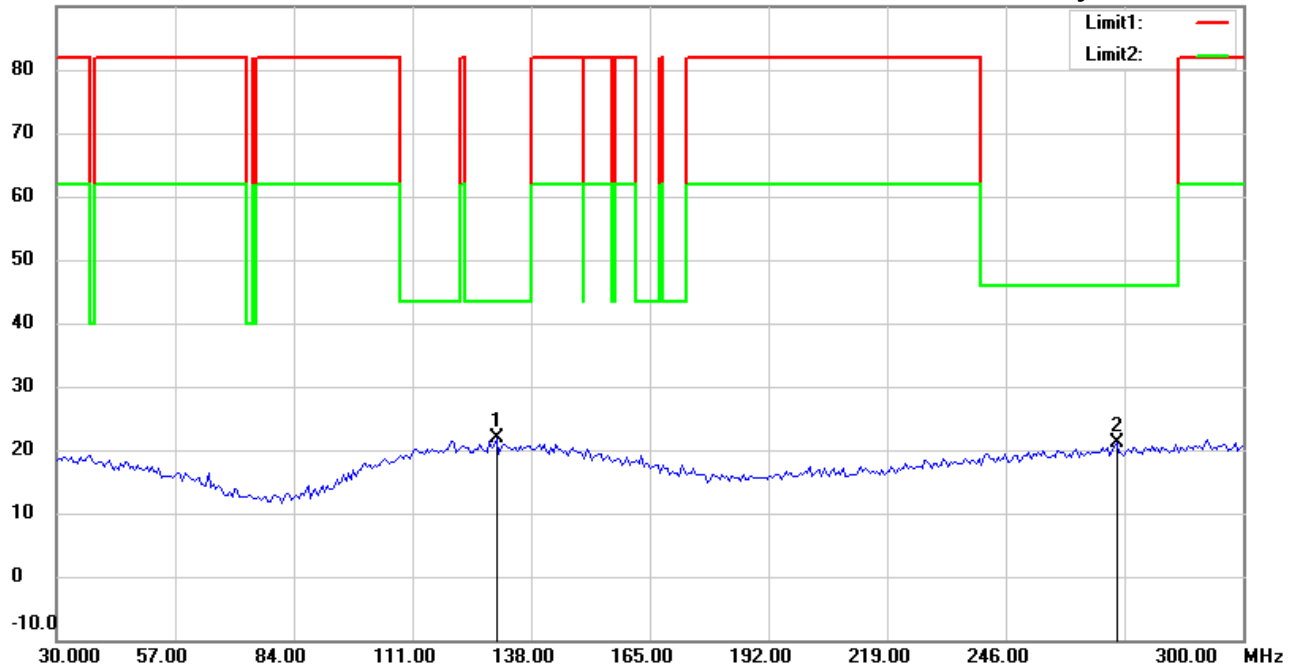
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:12:22 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC 15.231(470MHz) 30-300(PK)

Polarization: *Horizontal*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	130.1002	28.21	peak	-6.31	21.90	43.50	100	45	-21.60	
	271.3226	27.48	peak	-6.43	21.05	46.00	100	110	-24.95	



Radiated Emission Measurement

Operator: Vincent

File :1

Data :#2

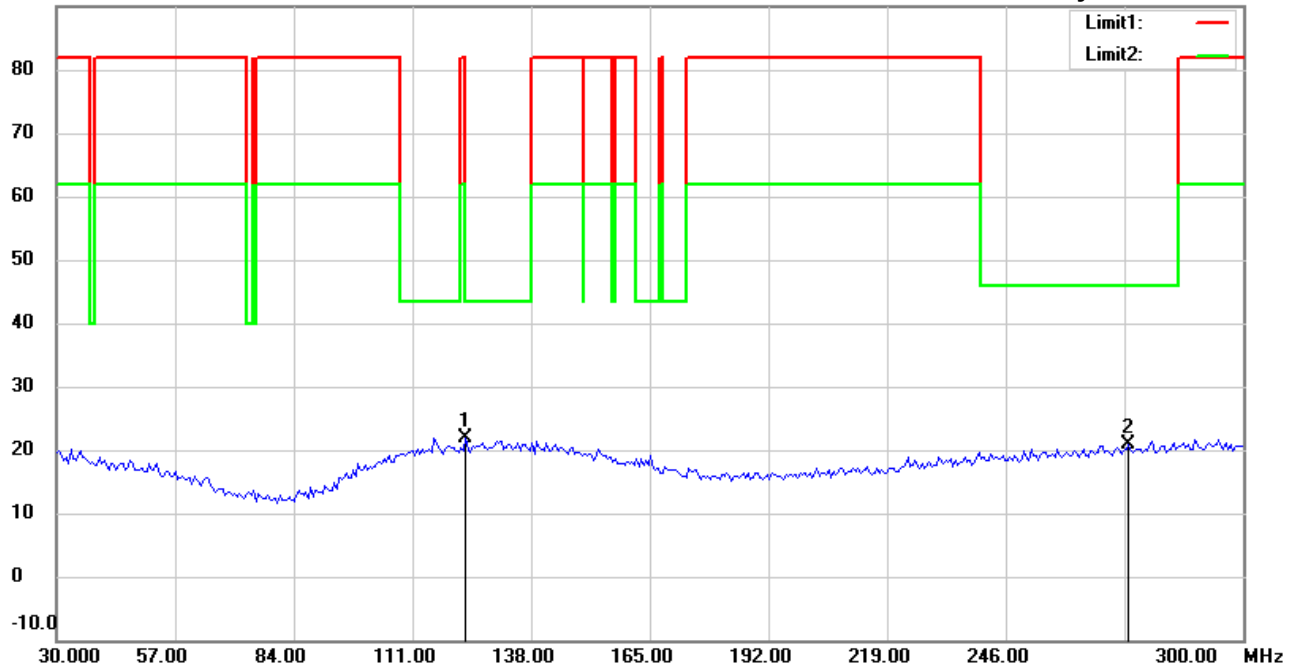
Date: 7/3/2018

Temperature:27.9 °C

90.0 dBuV/m

Time: 9:14:19 PM

Humidity:56.2 %



Site : Chamber

Condition : FCC 15.231(470MHz) 30-300(PK)

Polarization: **Vertical**

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	123.0661	28.47	peak	-6.50	21.97	43.50	100	233	-21.53	
	274.0280	27.16	peak	-6.31	20.85	46.00	100	170	-25.15	



Radiated Emission Measurement

Operator: Vincent

File :2

Data :#1

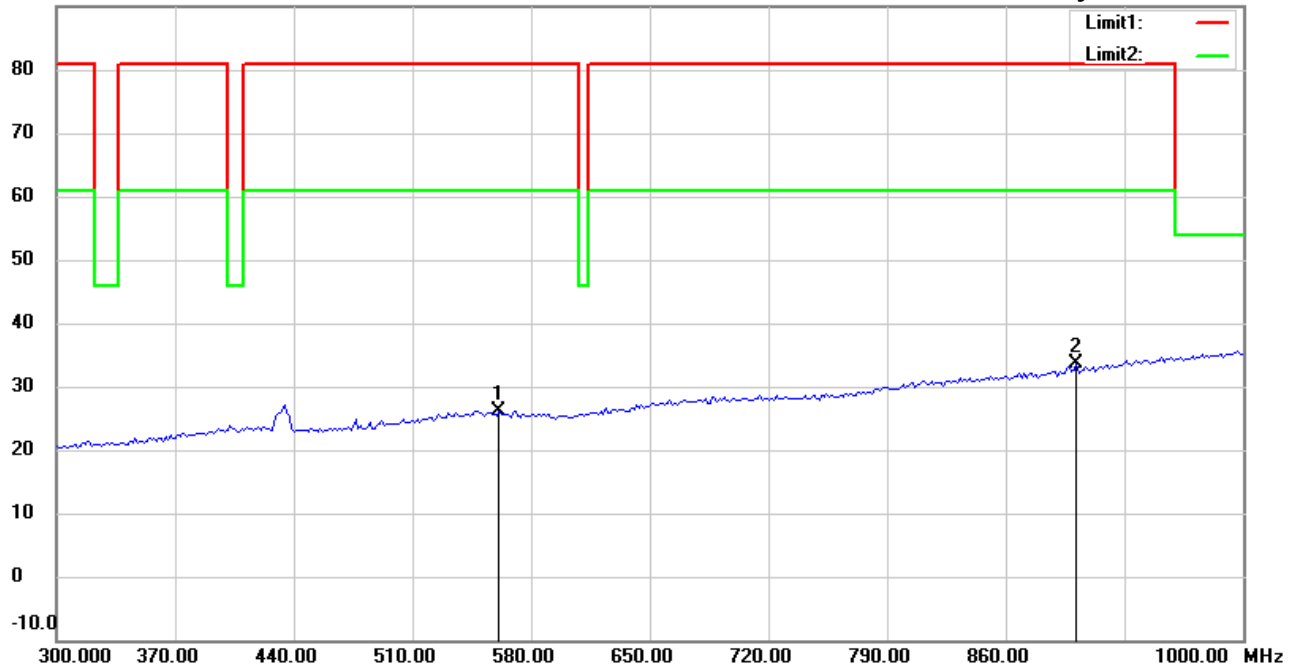
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:31:03 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)

Polarization: *Horizontal*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	560.9215	27.39	peak	-1.17	26.22	80.80	100	45	-54.58	
*	901.8034	28.72	peak	4.91	33.63	80.80	100	237	-47.17	



Radiated Emission Measurement

Operator: Vincent

File :2

Data :#2

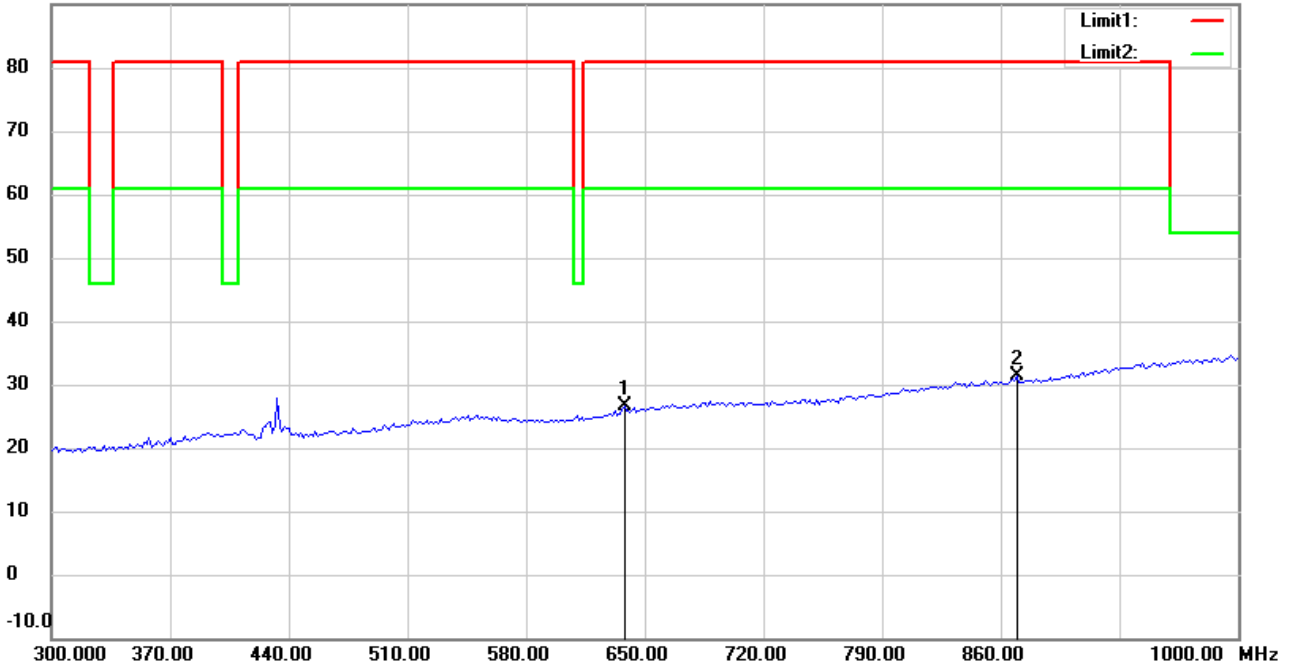
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:34:16 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)

EUT : W6M21805-18065

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: *Vertical*

Power : 4.5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	638.0760	26.57	peak	0.02	26.59	80.80	100	55	-54.21	
*	869.5390	27.13	peak	4.28	31.41	80.80	100	135	-49.39	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

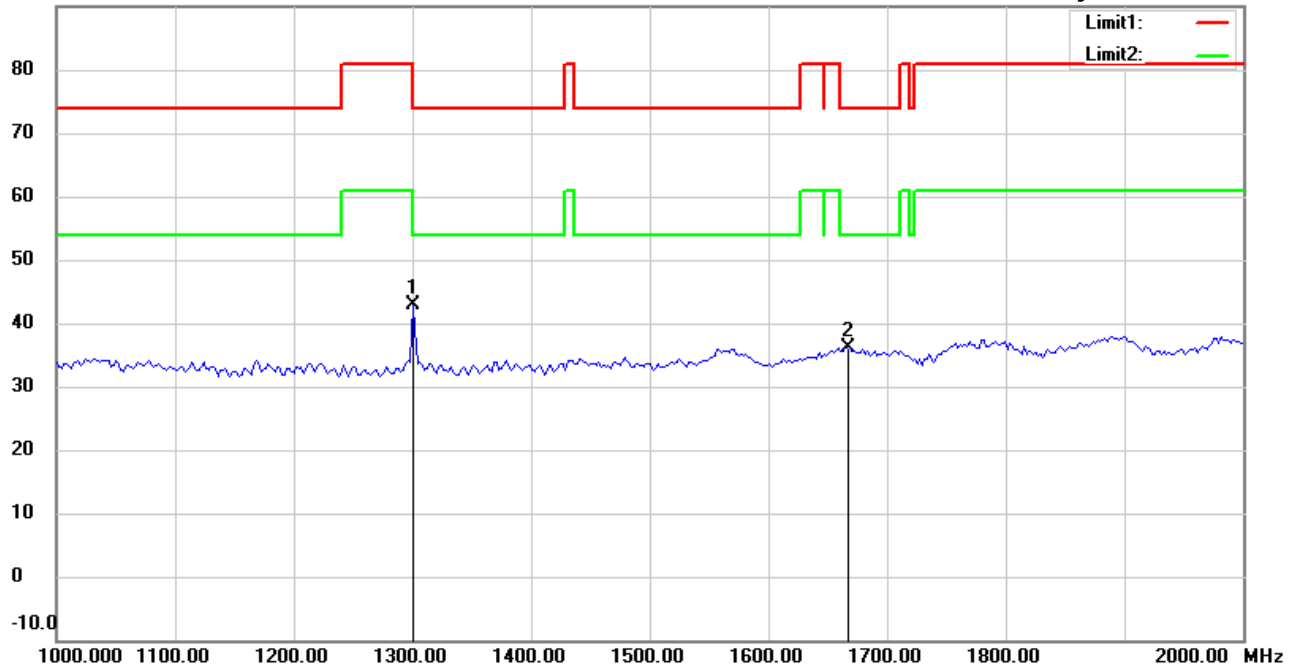
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:50:17 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)

Polarization: *Horizontal*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1300.601	51.88	peak	-9.00	42.88	74.00	100	125	-31.12	
	1665.331	43.71	peak	-7.61	36.10	74.00	100	290	-37.90	





Radiated Emission Measurement

Operator: Vincent

File :3

Data :#4

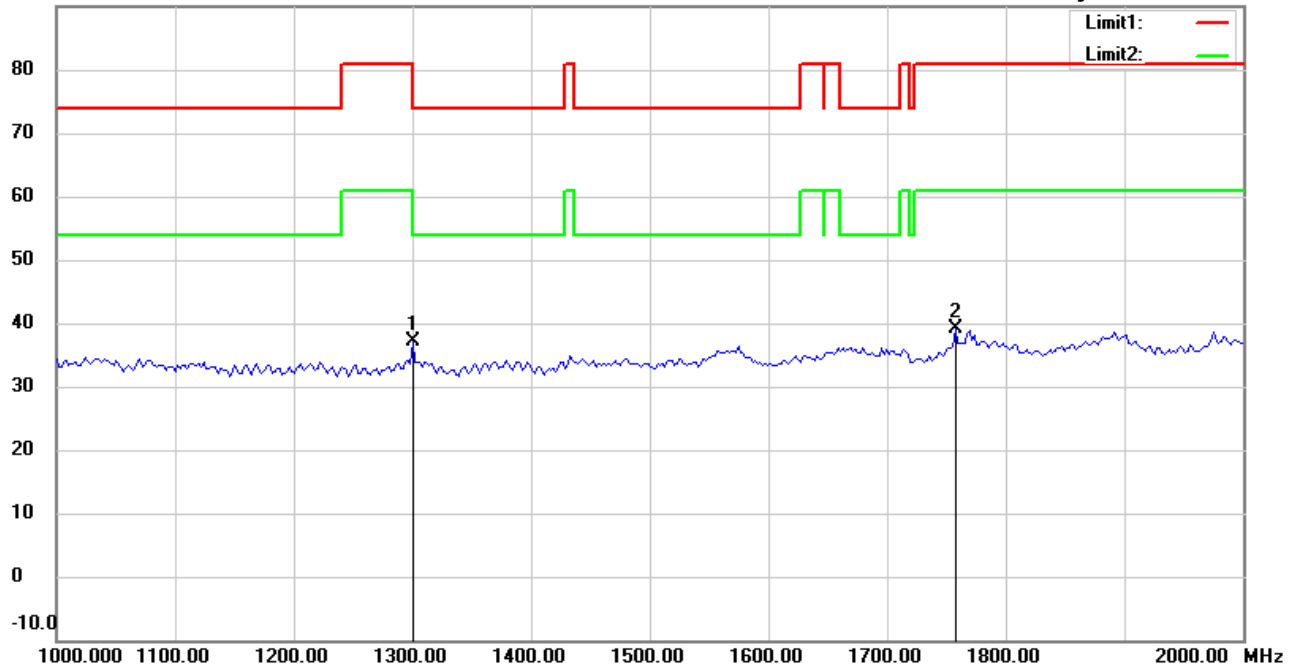
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:55:49 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)

Polarization: **Vertical**

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1300.601	46.11	peak	-9.00	37.11	74.00	100	245	-36.89	
	1757.515	46.05	peak	-6.89	39.16	80.80	100	110	-41.64	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

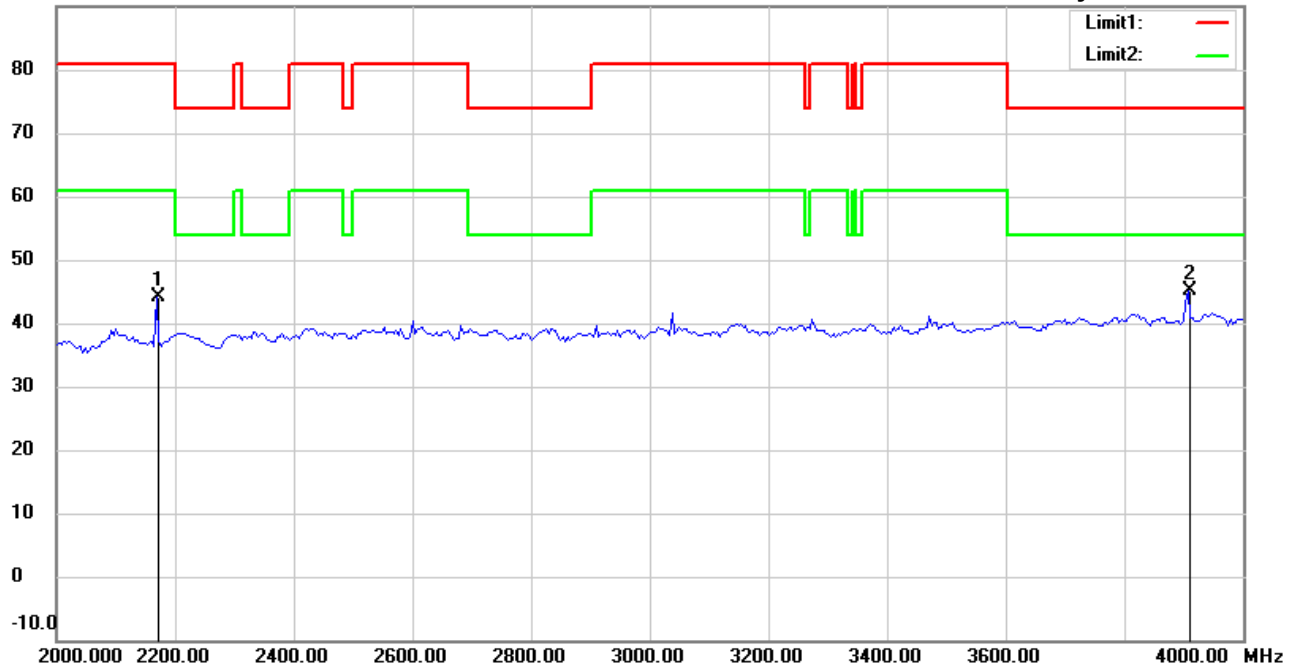
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:52:17 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)

Polarization: *Horizontal*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2168.337	49.26	peak	-5.13	44.13	80.80	100	230	-36.67	
*	3907.816	45.34	peak	-0.25	45.09	74.00	100	155	-28.91	



Radiated Emission Measurement

Operator: Vincent

File :3

Data :#5

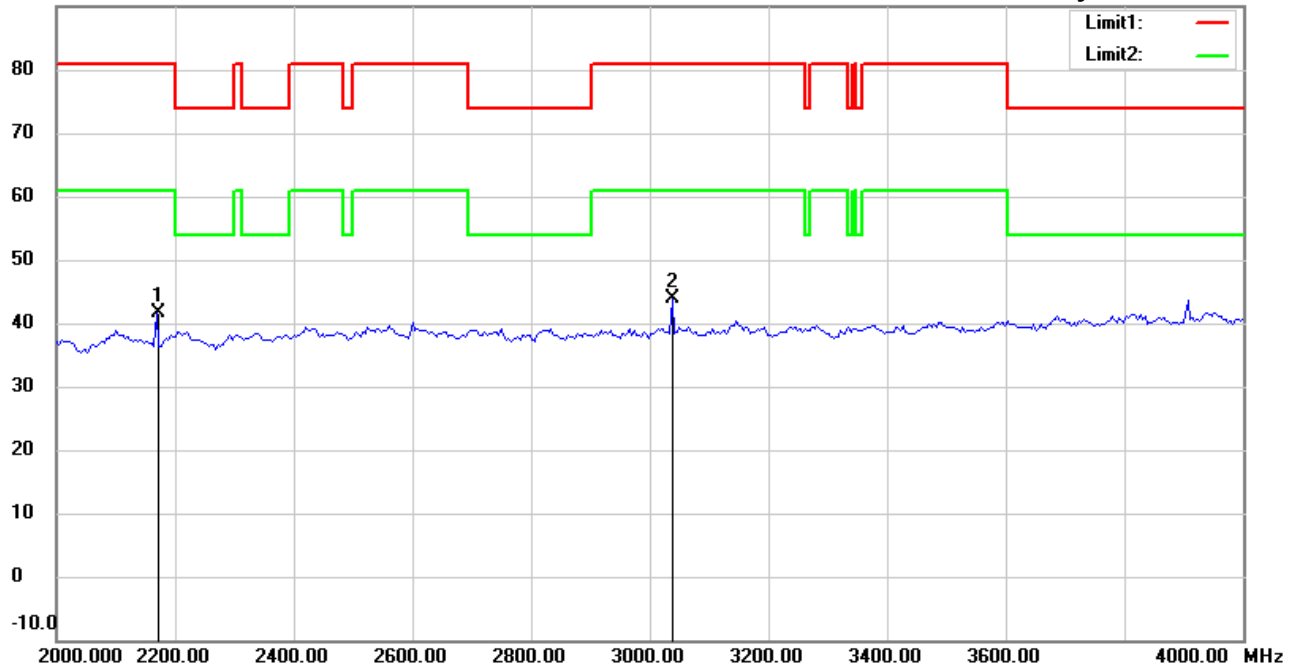
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:57:10 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)

Polarization: *Vertical*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2168.337	46.83	peak	-5.13	41.70	80.80	100	130	-39.10	
*	3038.076	47.09	peak	-3.24	43.85	80.80	100	215	-36.95	



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
 Tel:+886-2-6606-8877  
 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#3

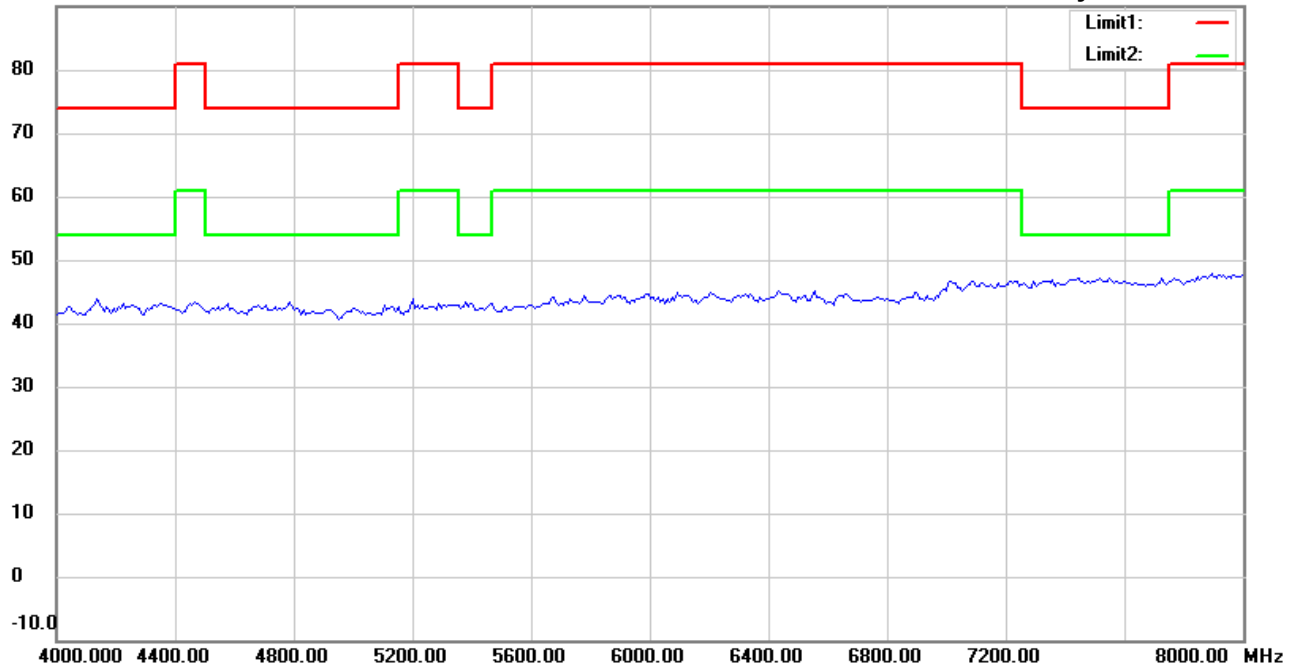
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:54:05 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)

Polarization: *Horizontal*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

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



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei  
 Tel:+886-2-6606-8877  
 Fax:+886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#6

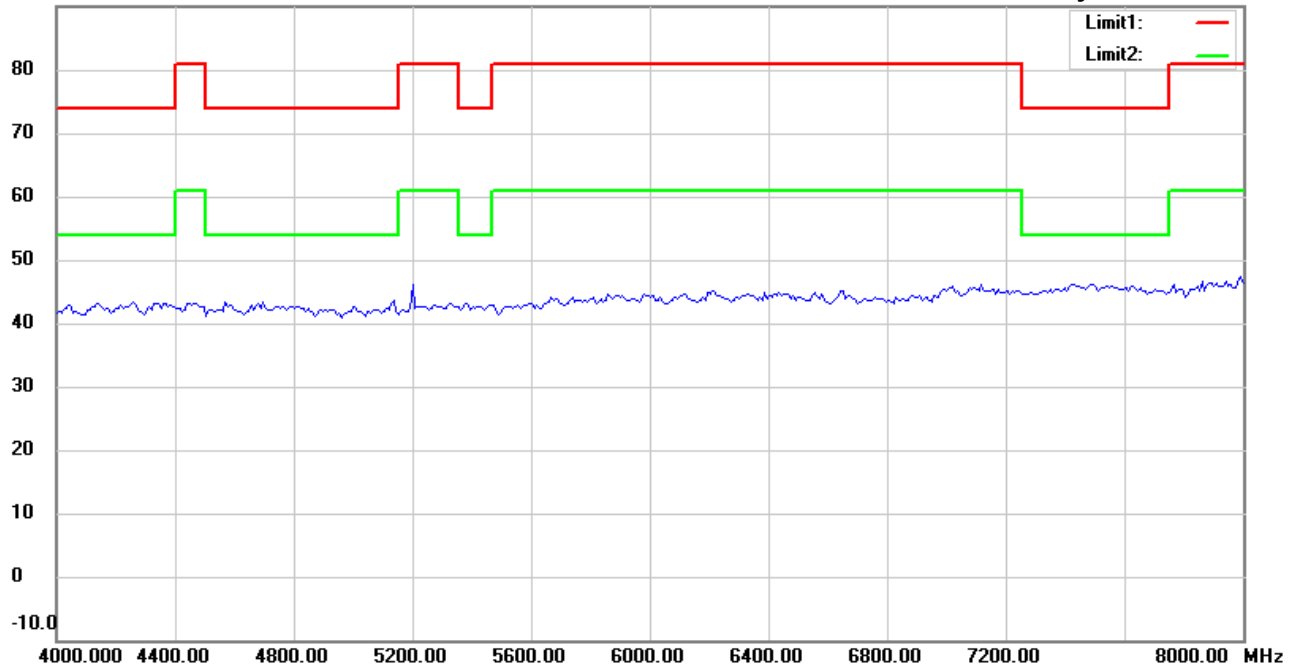
Date: 7/2/2018

Temperature:28.9 °C

90.0 dBuV/m

Time: 11:58:54 PM

Humidity:56.7 %



Site : Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)

Polarization: *Vertical*

EUT : W6M21805-18065

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

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