

FCC PART 15 SUBPART C TEST REPORT

for

Wireless Smart Home Alarm Panel

Model No.: MZx-xxx Series(x=0~9, A~Z or blank)

FCC ID: GX9MZ

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.: 930600

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

A2LA Accredited No.: 2732.01



Report No.: W6M21309-13526-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: wt@wt-lab.com

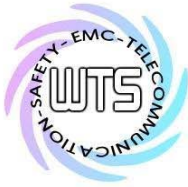


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1 General Information

1.1 Notes

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

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

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

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

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

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

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

Tester:

February 21, 2014

Robert Ren

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

February 21, 2014

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village,

Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

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

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

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

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

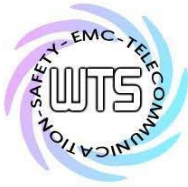
Street : No. 258, Sinhu 2nd Rd., Neihu District

Town : 114, Taipei City

Country : Taiwan (R.O.C.)

Telephone : +886-2-2794-0001

Fax : +886-2-2792-6618



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1.4 Application details

Date of receipt of test item: September 12, 2013
Date of test: from September 13, 2013 to February 21, 2014

1.5 Test item

Description of test item: Wireless Smart Home Alarm Panel
Type identification: MZx-xxx Series(x=0~9, A~Z or blank)
Brand name: CLIMAX / VESTA
Multi-listing model number: MRx-xxx Series(x=0~9, A~Z or blank)
Transmitting frequency: 433.92 MHz
Operation mode: Duplex
Voltage supply: Adaptor: (I/P: 100-240V~/ 50/60Hz/0.5A; O/P: 12 VDC/ 1A)
Battery: 4.8 Vdc (1.2Vdc*4) / 1100 mAh

(The device is tested under fresh battery condition.)

Highest clock frequency: 433.92 MHz
Antenna type: Monopole Antenna
Antenna gain: 0.63dBi
Photos: see Annex

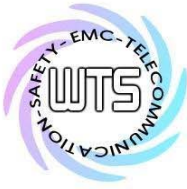
Manufacturer (if applicable)

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

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.231 (a) (2011-10)



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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

Details of power supply: Adaptor: (I/P: 100-240V~/ 50/60Hz/0.5A; O/P: 12 VDC/ 1A)
Battery: (1.2 Vdc / 1100 mAh*4)

Note:

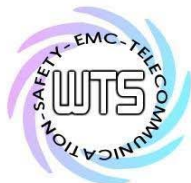
1. This test report is valid in connection to the model has been tested, any modification to the product which is different from the test model will avoid the certification of the test report.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.
3. The x in model number is representing different customer's number, less functions, enclosure color and printing.



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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	2013/9/2	2014/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2013/9/4	2014/9/3
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2013/3/4	2014/3/3
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	2013/7/10	2014/7/9
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2013/8/29	2014/8/28
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2013/10/28	2014/10/27
ETSTW-CE 024	IMPEDANCE STABILIZATION NETWORK	ISN T800	29454	TESEQ	2014/1/9	2015/1/8
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2013/8/17	2014/8/16
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	Function Test	
ETSTW-CS 010	6 dB Attenuator	SA3N1007-06	None	AISI	Function test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2013/8/14	2014/8/13
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2013/9/2	2014/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2013/9/2	2014/9/1
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2013/9/2	2014/9/1
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	2013/4/1	2014/3/31
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2013/7/3	2014/7/2
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	Function Test	
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	Function Test	
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2013/3/4	2014/3/3
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2013/10/11	2014/10/10
ETSTW-RE 033	WaveRunner 6000A Serie Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	Function Test	
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2013/10/11	2014/10/10
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2014/1/7	2015/1/6
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2013/4/11	2014/4/10
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2013/4/18	2014/4/17
ETSTW-RE 045	ESA-E SERIES	E4404B	MY45111242	Agilent	Pre-test Use	



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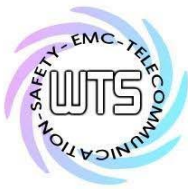
	SPECTRUM ANALYZER					
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2013/8/27	2014/8/26
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2013/3/21	2014/3/20
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2013/5/31	2014/5/30
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2013/3/4	2014/3/3
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2013/5/16	2014/5/15
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2013/11/27	2014/11/26
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2013/4/8	2014/4/7
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2013/10/7	2014/10/6
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2014/1/7	2015/1/6
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2014/1/7	2015/1/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2013/3/4	2014/3/3
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2013/12/04	2014/12/03
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2013/12/27	2014/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10	2015/1/9
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2013/6/28	2014/6/27
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2013/3/4	2014/3/3
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	093	EMC-PARTNER	2013/8/14	2014/8/13
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	2013/11/11	2014/11/10
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	2013/6/01	2014/5/31



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ETSTW-EMS 016	EMF Tester	1390	071208732	TES	2013/10/11	2014/10/10
ETSTW-EMS 017	Multimeter	DM-1220	518614	HOLA	2013/8/13	2014/8/12
ETSTW-EMS 019	Electrostatic Discharge Simulator	ESS-2002	ESS06Y6300	NoiseKen	2013/10/11	2014/10/10
ETSTW-EMS 020	Humidity Temperature Meter	TES-1366	091011116	TES	2013/11/08	2014/11/07
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR	Function Test	
ETSTW-RS 004	RF Power Amplifier	150W1000	307009	AR	Function Test	
ETSTW-RS 006	SIGNAL GENERATOR	SML03	101551	R&S	2013/2/26	2014/2/25
ETSTW-RS 007	14" COLOR VIDEO MONITOR	HS-CM145A	0512011548	None	Function Test	
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2014/1/21	2014/1/20
ETSTW-RS 010	Broadband Field Meter	NBM-520	C-0195	Narda	2013/9/27	2014/9/26
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2013/10/7	2014/10/6
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2014/1/10	2015/1/9
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2014/1/10	2015/1/9
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2014/1/10	2015/1/9
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2014/1/10	2015/1/9
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2013/9/18	2014/9/17
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S_Cable 7)	238093	HUBER+SUHNER	2013/5/16	2014/5/15
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S_Cable 11)	209953	HUBER+SUHNER	2013/5/16	2014/5/15
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104 (S_Cable 5)	232345	HUBER+SUHNER	Function Test	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
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	2013/3/4	2014/3/3
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104 (S_Cable 19)	316739	HUBER+SUHNER	2013/5/16	2014/5/15
ETSTW-Cable 040	Microwave Cable	SUCOFLEX 104 (S_Cable 20)	316738	HUBER+SUHNER	Function Test	

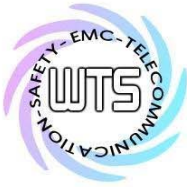


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ETSTW-Cable 042	Microwave Cable	SUCOFLEX 104 (S_Cable 22)	279847	HUBER+SUHNER	Function Test	
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 051	BNC Cable	BNC Cable 6	None	JYE BAO CO.,LTD.	2013/3/29	2014/3/28
ETSTW-Cable 052	BNC Cable	Clamp Cable	None	Schwarz beck	2013/3/29	2014/3/28
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2013/6/20	2014/6/19
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER	HARCS Version 4.16 Firmware Version 2.18	
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	



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50μH 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 C63.4-2009 6.4 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 dBμV) 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 dBμV + 10.36 dB/m + 6 dB = 36.36 dBμV/m @3m

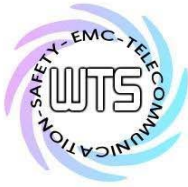
ANSI STANDARD C63.4-2009 6.3.1 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

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

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at. The Registration Number: **930600**

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

ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



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3 Test results (enclosure)

☒ 1st test

☐ test after modification

☐ production test

TEST CASE	Para. Number	Required	Test passed	Test failed
Transmission Requirements	FCC 15.231(a)	☒	☒	☐
Radiated Emission	FCC 15.231(b)	☒	☒	☐
Bandwidth of Emission	FCC 15.231(c)	☒	☒	☐
Frequency Tolerance	FCC 15.231(d)	☐	☐	☐
Period Alternate Field Strength Requirements	FCC 15.231(e)	☐	☐	☐
Antenna Requirement	FCC 15.203	☒	☒	☐
Conducted Measurement at (AC) Power Line	FCC 15.207	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

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.

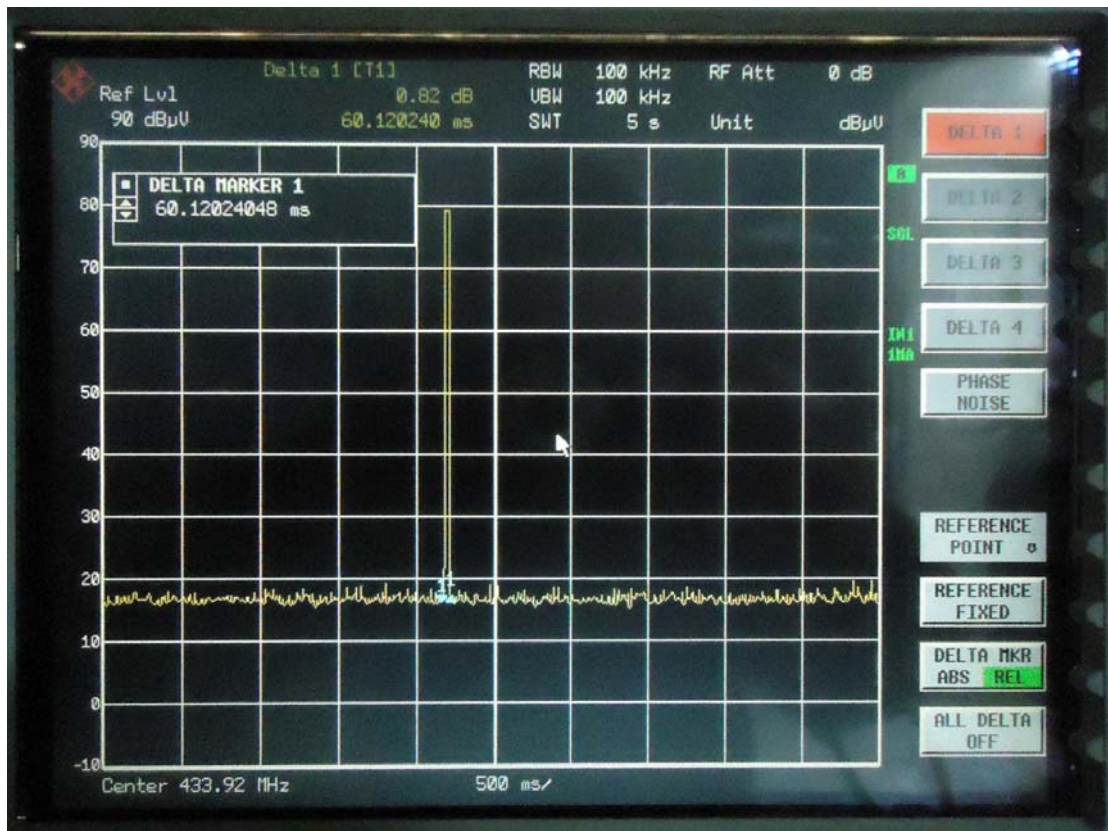
☐ According to 15.231(a)(2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.

3.1.2 Active Time

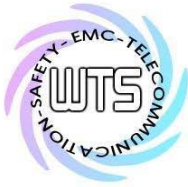
☒ This manually operated transmitter employs a switch that automatically deactivate the transmitter within 60.120240 ms of being released.

☐ 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 device will transmit a signal around _____ms and continue to retransmit the signal every 5 minutes during the pendency of the alarm condition.



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



Worldwide Testing Services(Taiwan) Co., Ltd.

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3.2 Output Power (Field Strength)

MZx-xxx Series

Model: (x=0~9, A~Z or blank) Date: 2014/2/12
Mode: power Temperature: 24 °C
Polarization: Horizontal Humidity: 60 %

Engineer: Leon

Frequency (MHz)	Reading (dBuV) Peak	Factor (dB) Corr. Duty	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
433.9205	61.24	19.76 -10.38	81.00 70.62	100.80 80.80	-10.18	50	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Factor (dB) Corr. Duty	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
433.9355	60.84	19.76 -10.38	80.60 70.22	100.80 80.80	-10.58	240	100

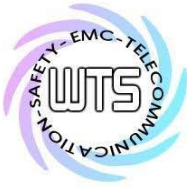
Limit 15.231(b)

Fundamental Frequency (MHz)	Field strength of fundamental, limit μV/m
40.66 – 40.70	2,250
70 – 130	1,250
130 – 174	1,250 to 3,750
174 – 260	3,750
260 – 470	3,750 to 12,500** (433.92 MHz: 80.8 dBμV/m = 10,997 μV/m)
Above 470	12,500

** linear interpolation

Explanation: See attached diagrams in appendix.

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



Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

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 433.92 fundamental carrier:

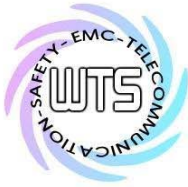
Max permitted average Limit: $80.80 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 60.80 \text{ dB}\mu\text{V/m}$

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: W6M21309-13526-C-1

FCC ID: GX9MZ

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

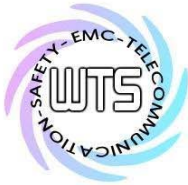
No duty cycle correction was added to the reading

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: $54 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Explanation: See attached diagrams in appendix.



Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

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.

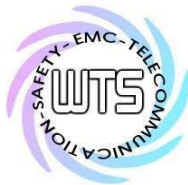
The peak and average spurious emission plots was measured with the average limits.

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

MZx-xxx Series								
Model:	(x=0~9, A~Z or blank)			Date:	2014/2/12			
Mode:	TX			Temperature:	24	°C	Engineer:	Leon
Polarization:	Horizontal			Humidity:	60	%		
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
155.5311	12.18	peak	15.36	27.54	80.80	-53.26	120	100
250.2204	15.34	peak	14.42	29.76	46.00	-16.24	165	100

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.			
349.0982	12.57	17.19	-10.38	29.76	19.38	80.80	60.80	-41.42	45	100
399.5991	9.39	18.67	-10.38	28.06	17.68	80.80	60.80	-43.12	120	100
1573.1460	44.96	-8.52	-10.38	36.44	26.06	74.00	54.00	-27.94	135	100
1675.3510	44.53	-7.52	-10.38	37.01	26.63	74.00	54.00	-27.37	80	100
2300.6010	44.60	-5.05	-10.38	39.55	29.17	80.80	60.80	-31.63	90	100
3470.9420	50.52	-2.49	-10.38	48.03	37.65	80.80	60.80	-23.15	155	100



Worldwide Testing Services(Taiwan) Co., Ltd.

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Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
147.9560	18.80	peak	15.23	34.03	80.80	-46.77	95	100
155.5311	19.29	peak	15.36	34.65	80.80	-46.15	115	100

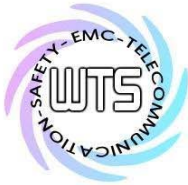
Polarization: Vertical

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.			
450.1000	9.78	20.13	-10.38	29.91	19.53	80.80	60.80	-41.27	80	100
900.4008	11.64	27.15	-10.38	38.79	28.41	80.80	60.80	-32.39	135	100
1567.1340	45.53	-8.57	-10.38	36.96	26.58	74.00	54.00	-27.42	80	100
1701.4030	45.33	-7.25	-10.38	38.08	27.70	74.00	54.00	-26.30	175	100
2340.6810	44.36	-4.80	-10.38	39.56	29.18	74.00	54.00	-24.82	115	100
2829.6590	44.07	-3.26	-10.38	40.81	30.43	74.00	54.00	-23.57	70	100

- Note**
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
 2. **The formula of measured value as: Test Result = Reading + Correction Factor**
 3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
 4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
 5. **Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.68 dB, 1-18 GHz = ± 5.37 dB, 18-40 GHz = ± 3.43 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 111



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

3.6 Spurious Emission radiated, Receiver

MZx-xxx Series

Model: (x=0~9, A~Z or blank)

Date: 2014/2/14

Mode: RX

Temperature: 24 °C

Engineer: Leon

Polarization: Horizontal

Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
148.5772	15.97	peak	15.25	31.22	43.50	-12.28	155	100
199.1182	15.17	peak	11.77	26.94	43.50	-16.56	140	100
300.2004	14.61	peak	16.00	30.61	46.00	-15.39	130	100
700.6413	10.64	peak	24.45	35.09	46.00	-10.91	90	100

Frequency (MHz)	Reading (dBuV) Peak	Factor (dB) Corr. Duty	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1561.1220	44.56	-8.61 -10.38	35.95 25.57	74.00 54.00	-28.43	60	100
3468.9380	50.55	-2.49 -10.38	48.06 37.68	74.00 54.00	-16.32	155	100

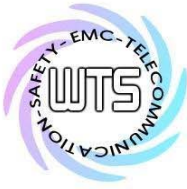
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
41.6633	16.71	peak	13.93	30.64	40.00	-9.36	110	100
78.5972	25.16	peak	10.06	35.22	40.00	-4.78	155	100
148.5772	20.25	peak	15.25	35.50	43.50	-8.00	90	100
850.3206	11.31	peak	26.42	37.73	46.00	-8.27	45	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Factor (dB) Corr. Duty	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1561.1220	44.48	-8.61 -10.38	35.87 25.49	74.00 54.00	-28.51	170	100
3468.9380	47.39	-2.49 -10.38	44.90 34.52	74.00 54.00	-19.48	135	100

- Note**
1. Correction Factor = Antenna factor + Cable loss - Preamplifier
 2. The formula of measured value as: Test Result = Reading + Correction Factor
 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
 4. All not in the table noted test results are more than 20 dB below the relevant limits.
 5. Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.68 dB, 1-18 GHz = ± 5.37 dB, 18-40 GHz = ± 3.43 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.



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Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

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 111

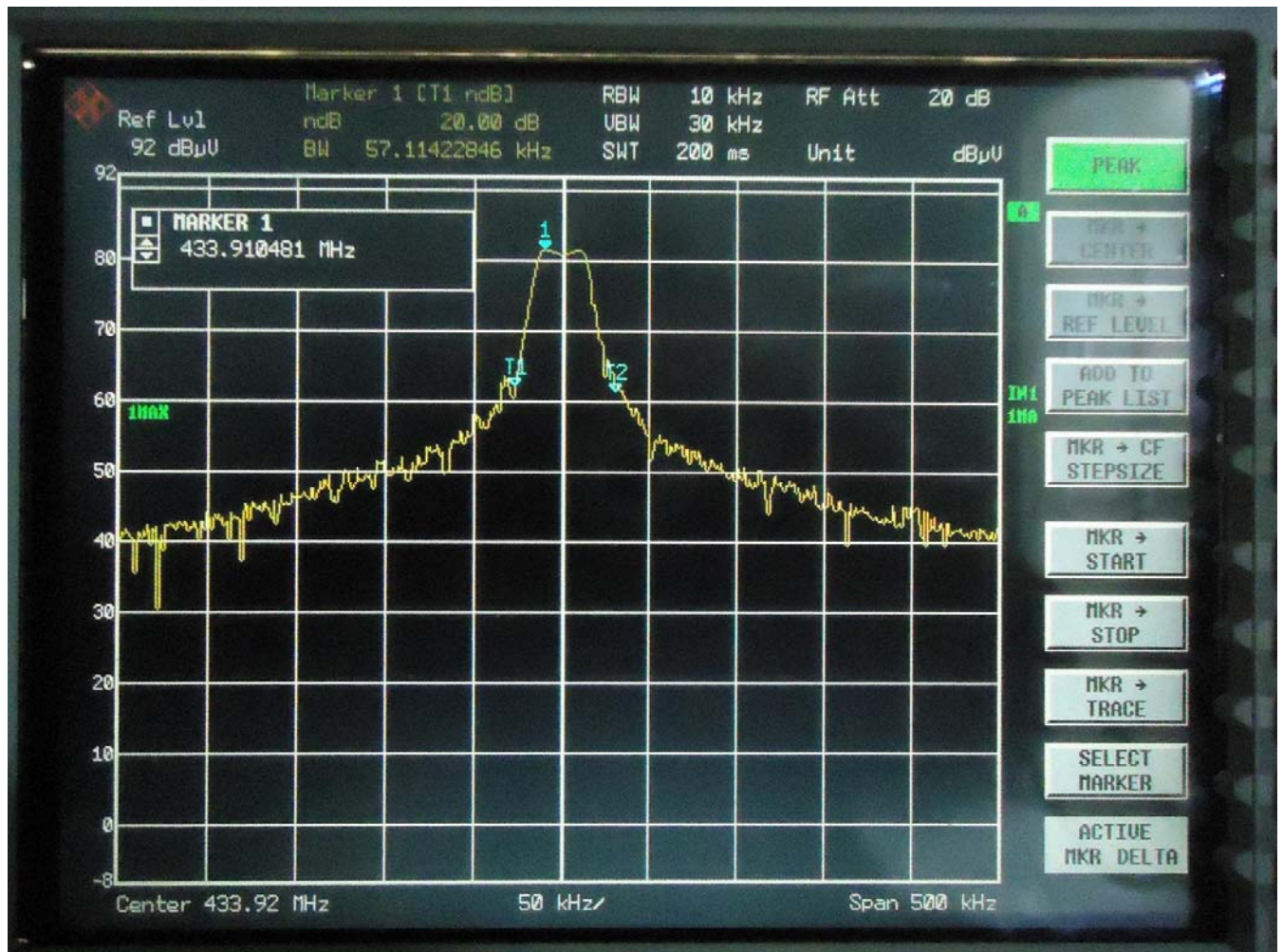
Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

3.7 Channel Bandwidth

Measurement of Necessary Bandwidth (BN)

Used frequency	Bandwidth	Limit
433.910481 MHz	57.11422846 kHz	1.0848 MHz

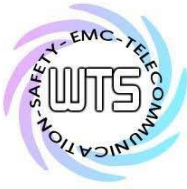


Explanation: The bandwidth fulfills the requirements of FCC § 15.231,

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: W6M21309-13526-C-1
FCC ID: GX9MZ

3.8 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 ☒	no ☐
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Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

3.9 Duty Cycle

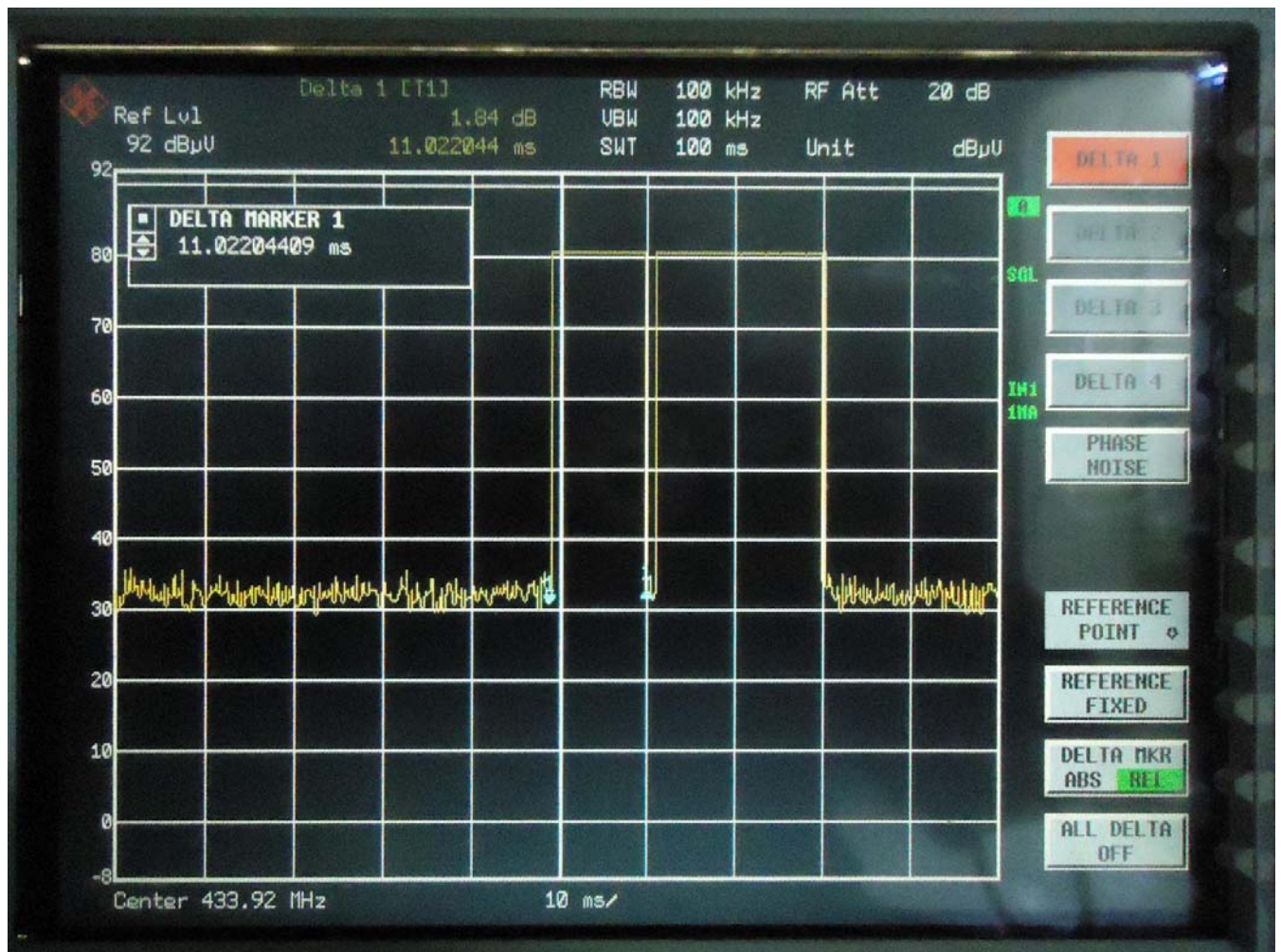
The correction factor, based on the channel dwell time in a 100ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the measured value.

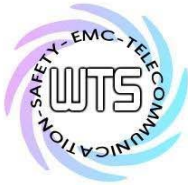
Average Reading = Peak Reading (dBuV/m) + Duty Cycle Correction

Duty Cycle Correction = $20 \log(\text{Cycle})$

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

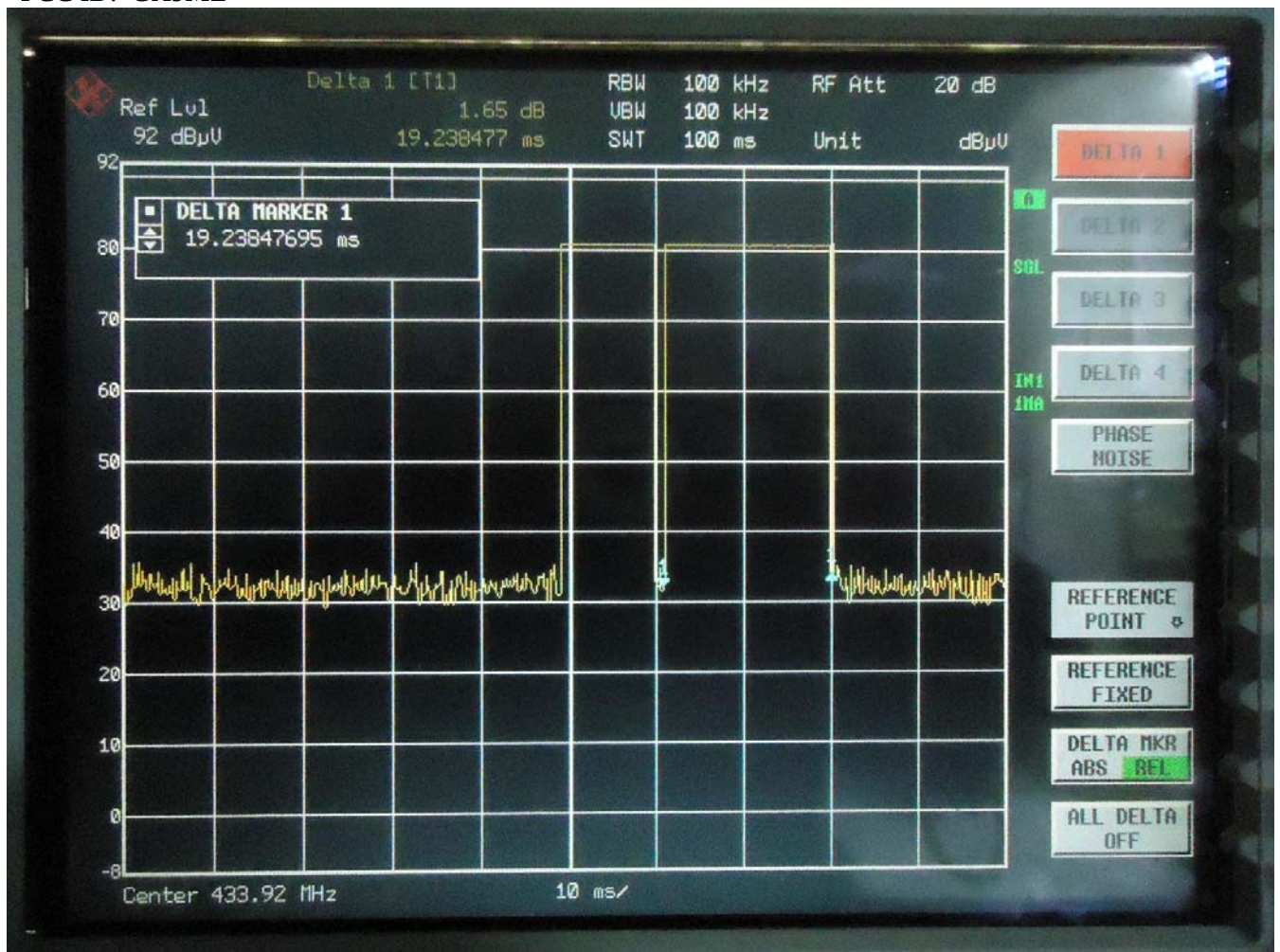
Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction $20 \cdot \log(\text{Duty Cycle})$
433.92 MHz	100	30.26052	0.30260521	-10.38



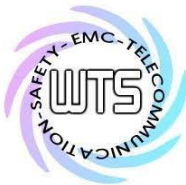


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ



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

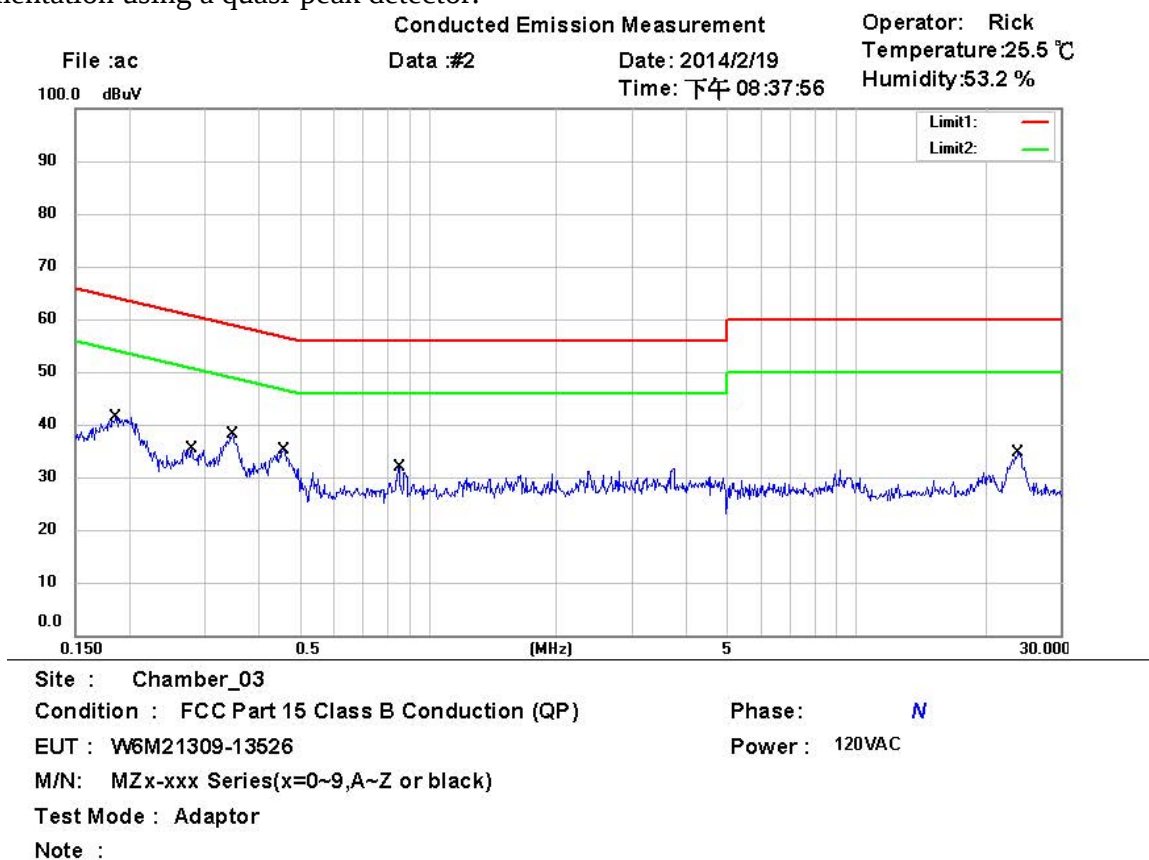


Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

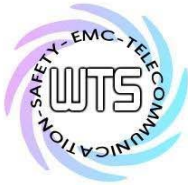
3.10 Conducted Measurement at (AC) Power Line

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.



Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1861	21.89	QP	9.65	31.54	64.21	-32.67	
	0.1861	6.25	AVG	9.65	15.90	54.21	-38.31	
	0.2800	17.59	QP	9.66	27.25	60.82	-33.57	
	0.2800	0.54	AVG	9.66	10.20	50.82	-40.62	
*	0.3474	23.30	QP	9.66	32.96	59.02	-26.06	
	0.3474	8.99	AVG	9.66	18.65	49.02	-30.37	
	0.4582	15.87	QP	9.56	25.43	56.73	-31.30	
	0.4582	-0.44	AVG	9.56	9.12	46.73	-37.61	
	0.8487	8.84	QP	9.68	18.52	56.00	-37.48	
	0.8487	-3.71	AVG	9.68	5.97	46.00	-40.03	
	23.8250	19.02	QP	10.24	29.26	60.00	-30.74	
	23.8250	11.30	AVG	10.24	21.54	50.00	-28.46	

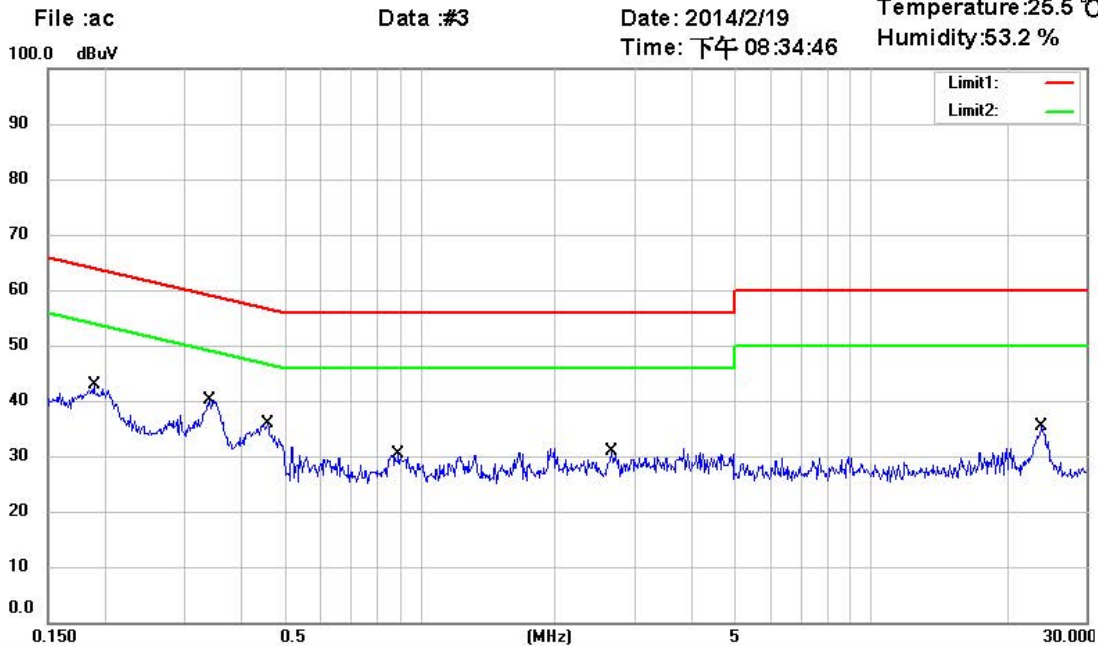


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

Conducted Emission Measurement

Operator: Rick
Temperature: 25.5 °C
Humidity: 53.2 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21309-13526

Power : 120VAC

M/N: MZx-xxx Series(x=0~9,A~Z or black)

Test Mode : Adaptor

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1890	22.51	QP	9.64	32.15	64.08	-31.93	
	0.1890	6.51	AVG	9.64	16.15	54.08	-37.93	
*	0.3404	23.28	QP	9.65	32.93	59.19	-26.26	
	0.3404	7.21	AVG	9.65	16.86	49.19	-32.33	
	0.4575	14.34	QP	9.55	23.89	56.74	-32.85	
	0.4575	0.22	AVG	9.55	9.77	46.74	-36.97	
	0.8937	13.86	QP	9.68	23.54	56.00	-32.46	
	0.8937	-0.07	AVG	9.68	9.61	46.00	-36.39	
	2.6600	12.39	QP	9.74	22.13	56.00	-33.87	
	2.6600	-0.88	AVG	9.74	8.86	46.00	-37.14	
	23.8000	19.51	QP	10.06	29.57	60.00	-30.43	
	23.8000	11.79	AVG	10.06	21.85	50.00	-28.15	

Note

1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty = ± 1.41 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.



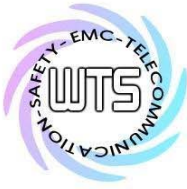
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1
FCC ID: GX9MZ

Limits:

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 003, ETSTW-CE 016, ETSTW-CE 006, ETSTW-RE045



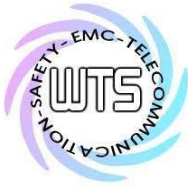
Appendix

A Measurement diagrams

Spurious Emissions radiated

B Photos

1. External photos
2. Internal photos
3. Set Up photo of Radiated Emission
4. Set Up Photo of Conducted Emission



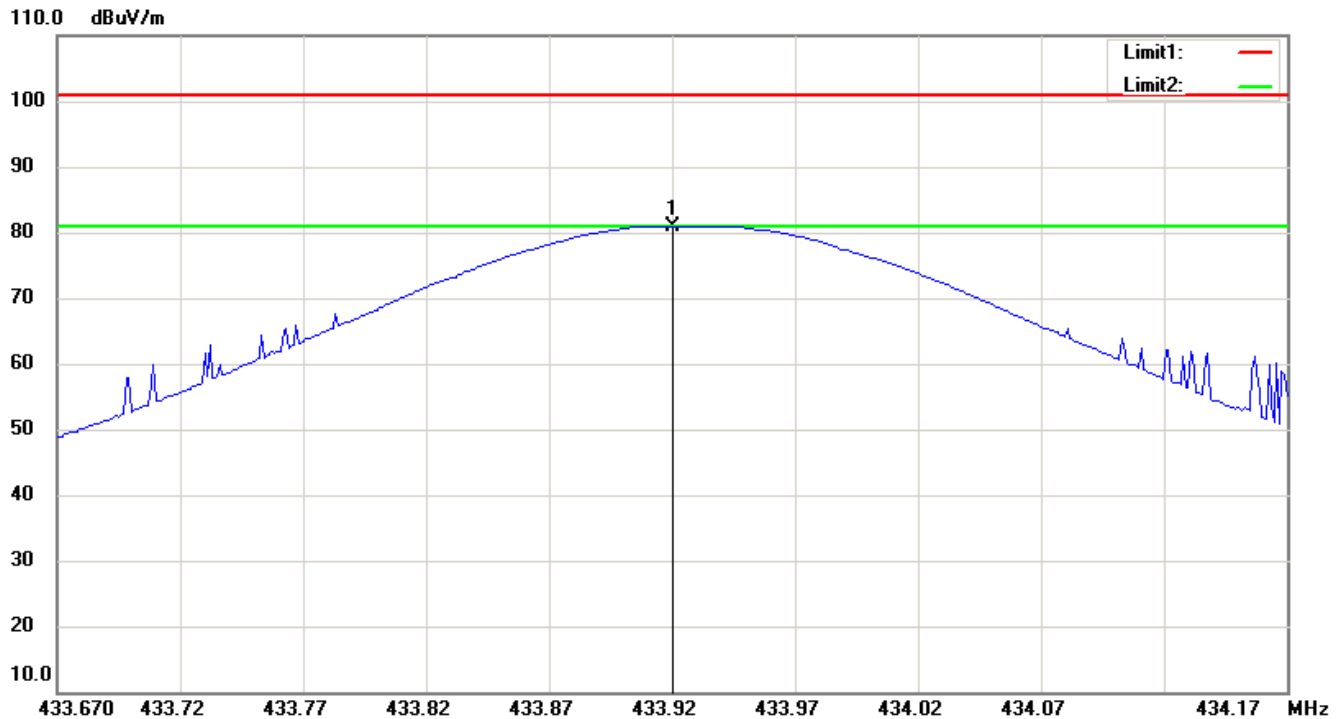
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

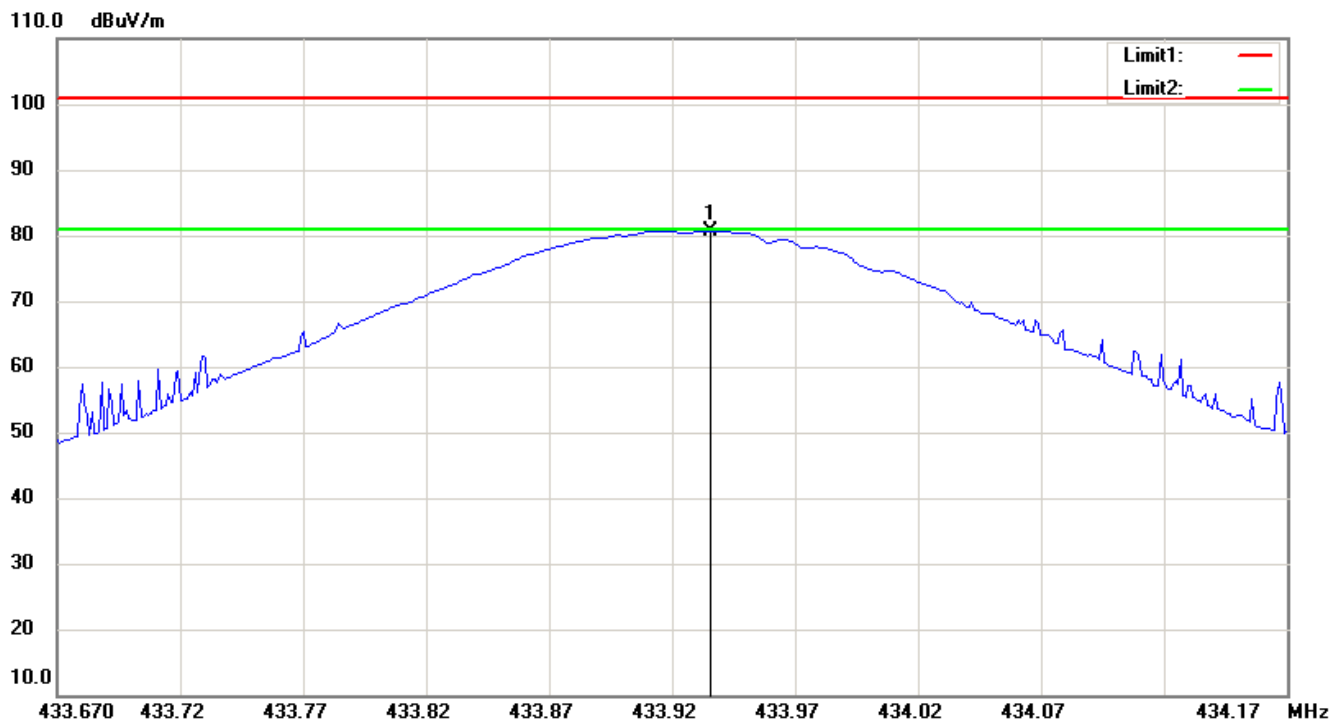
FCC ID: GX9MZ

Output Power

Antenna Polarization H

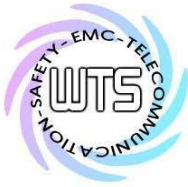


Antenna Polarization V



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of field Strength test data of this test report.



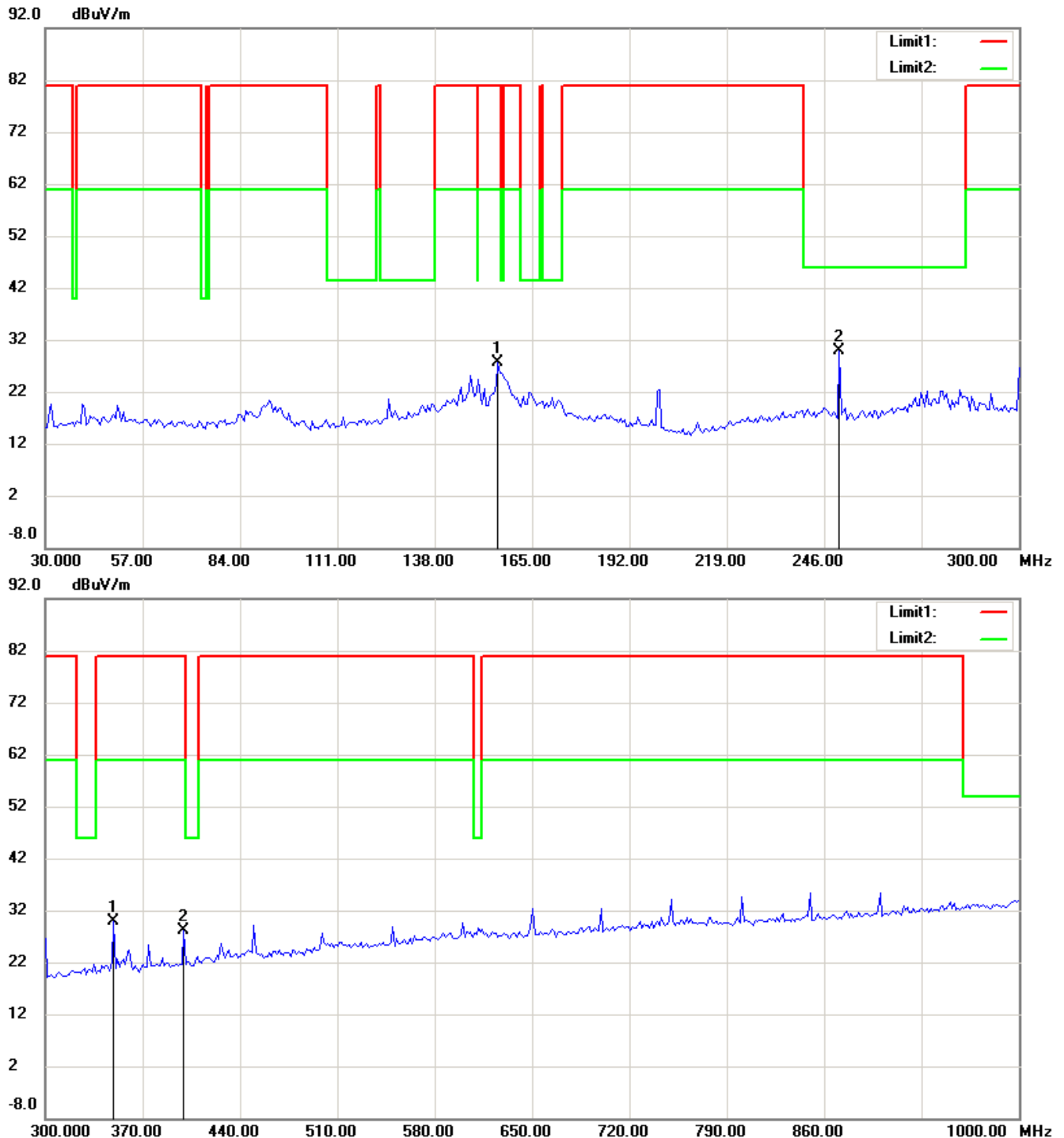
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

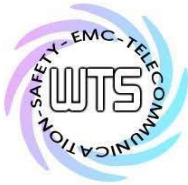
Spurious Emissions radiated_TX

Antenna Polarization H



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

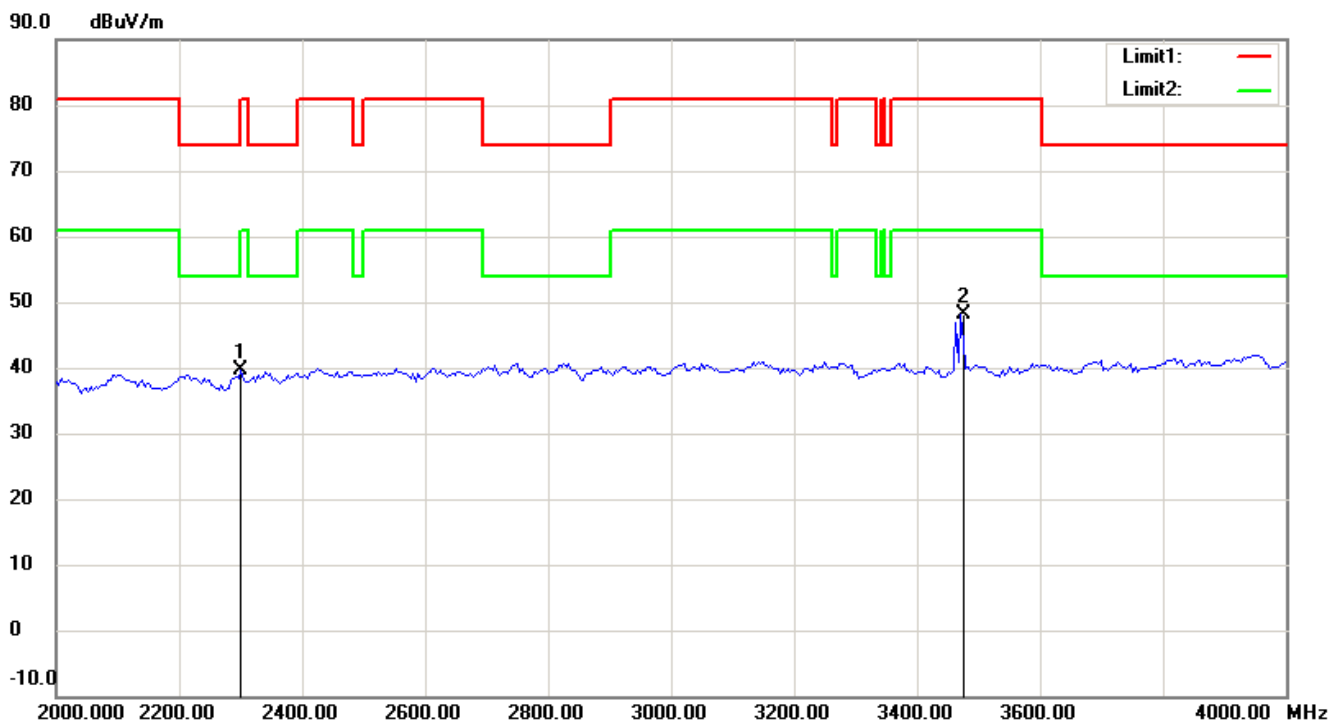
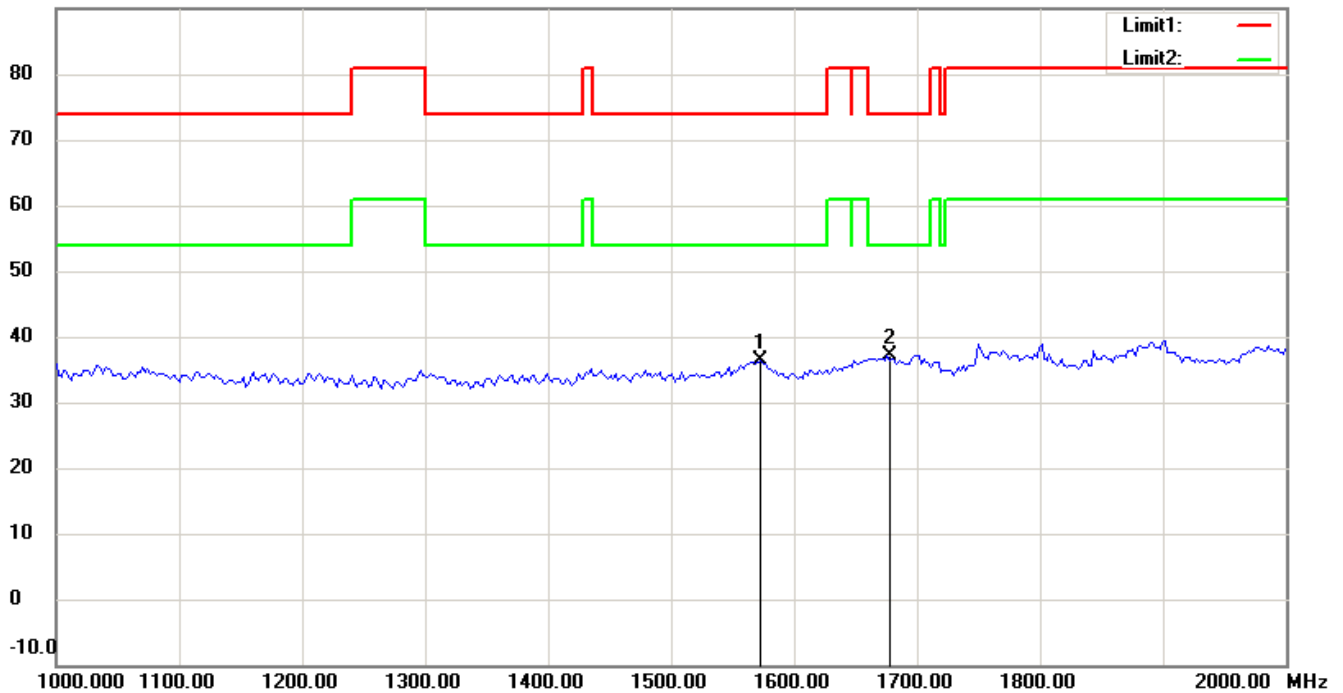


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

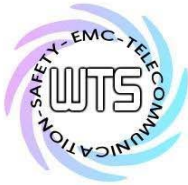
FCC ID: GX9MZ

90.0 dBuV/m



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

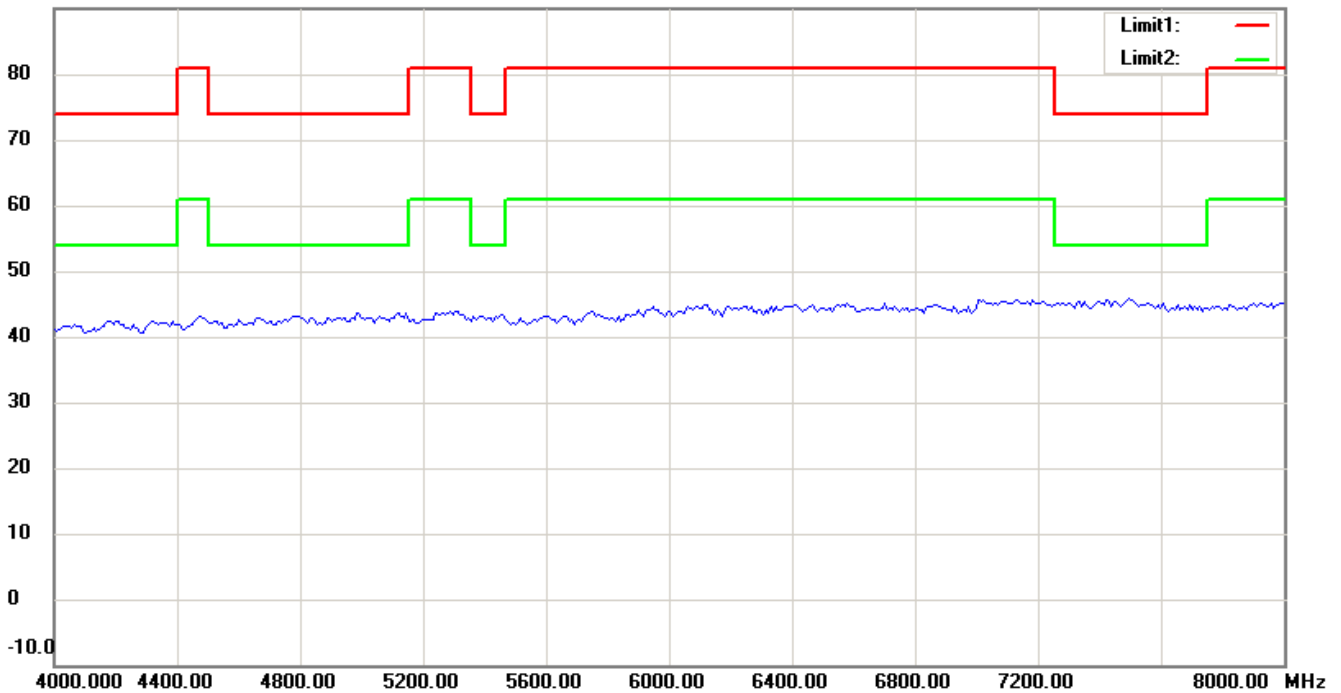


Worldwide Testing Services(Taiwan) Co., Ltd.

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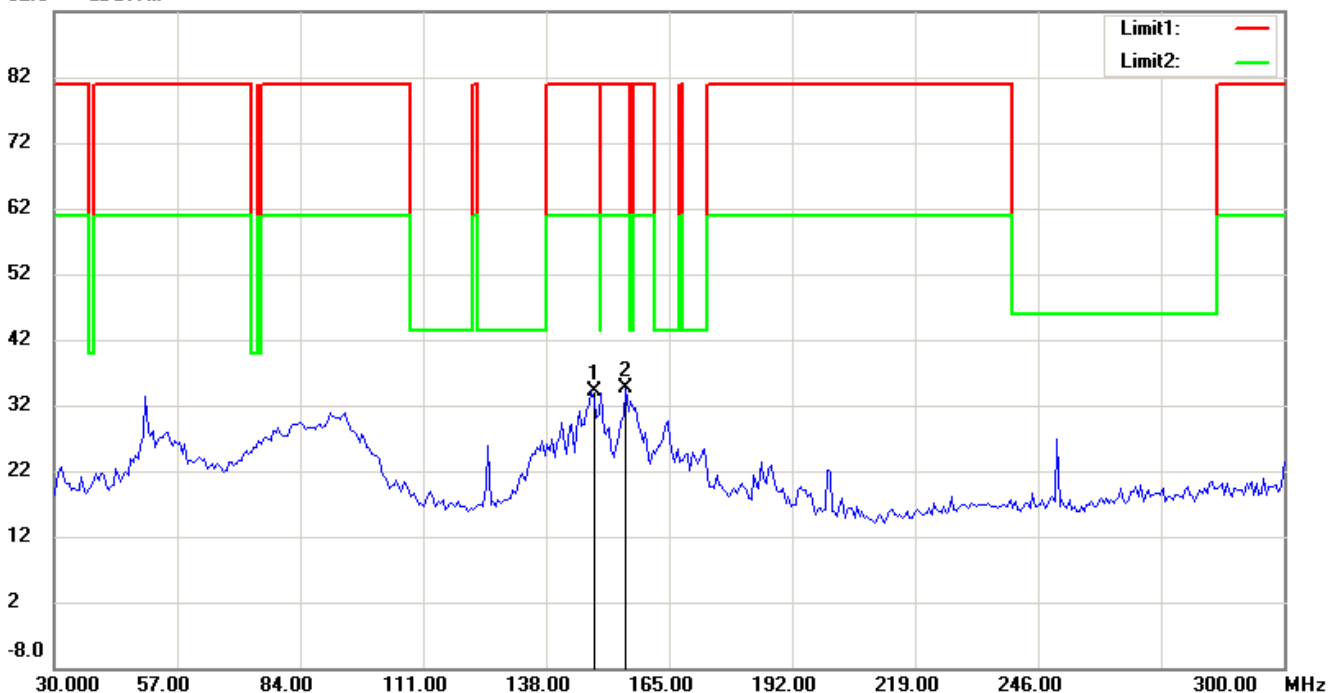
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90.0 dBuV/m



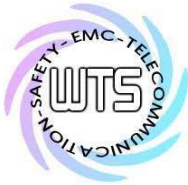
Antenna Polarization V

92.0 dBuV/m



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

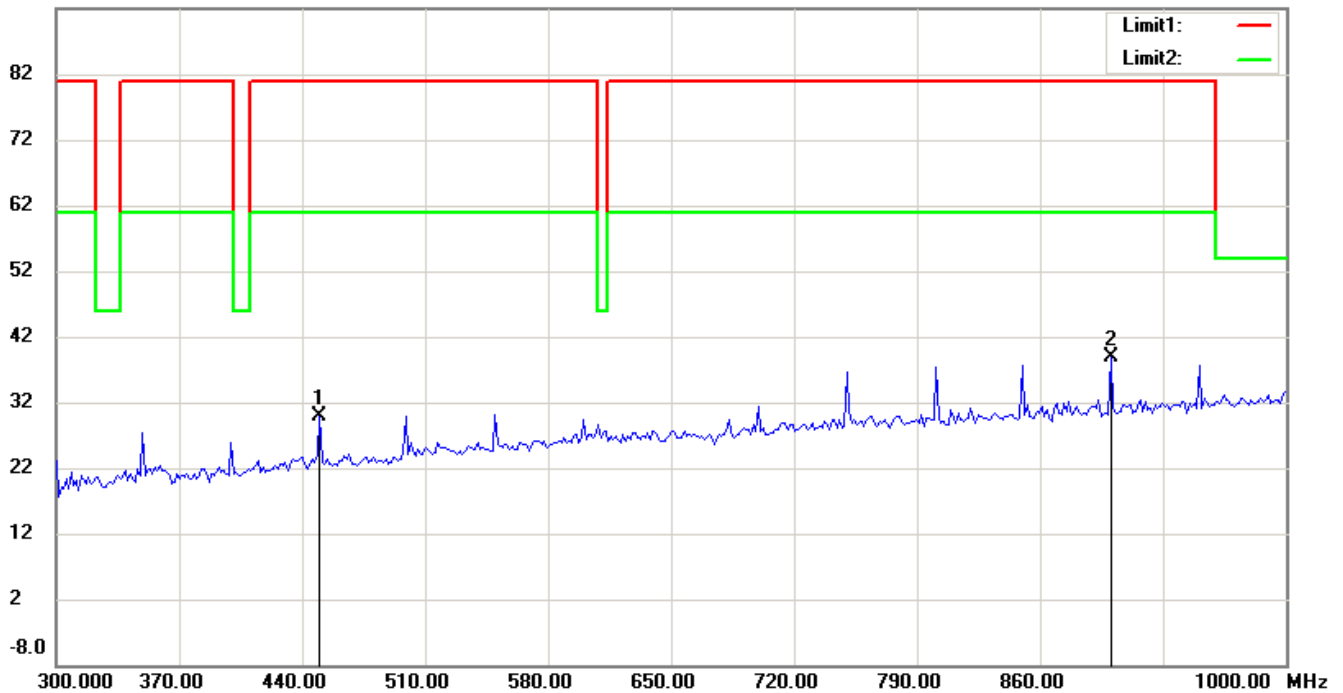


Worldwide Testing Services(Taiwan) Co., Ltd.

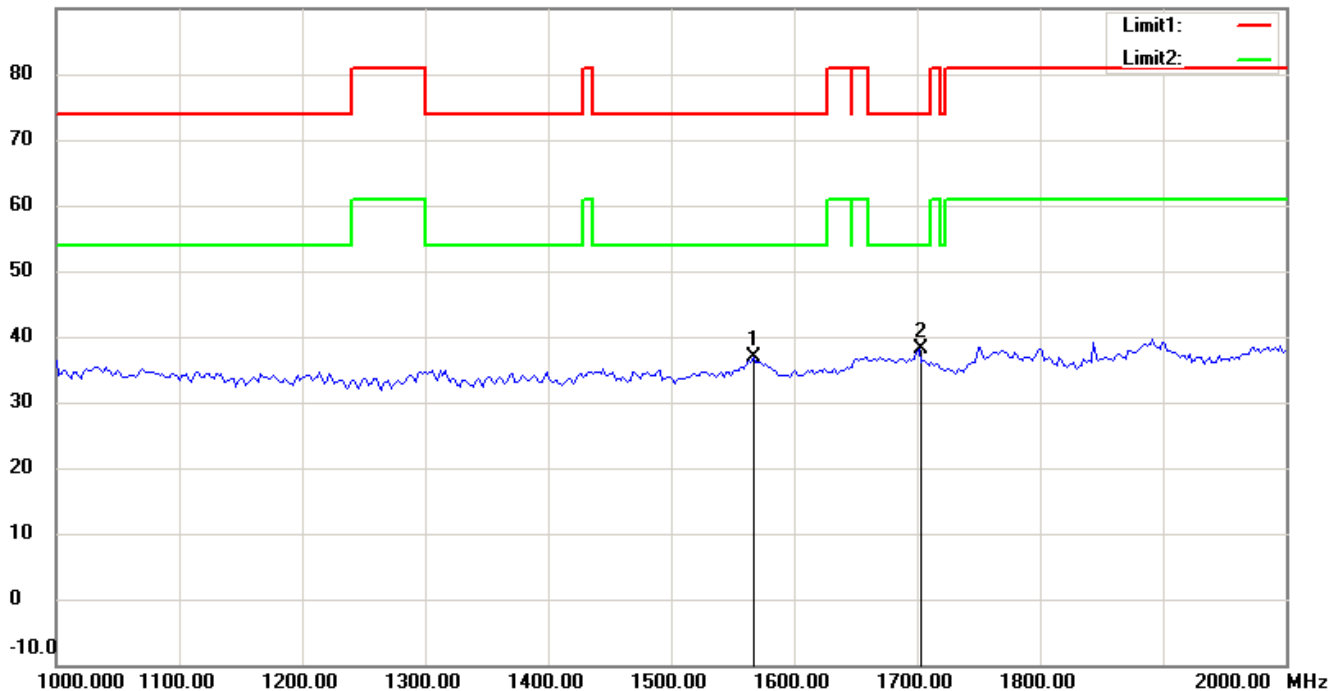
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FCC ID: GX9MZ

92.0 dBuV/m

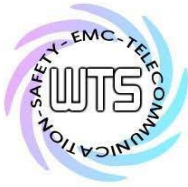


90.0 dBuV/m



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

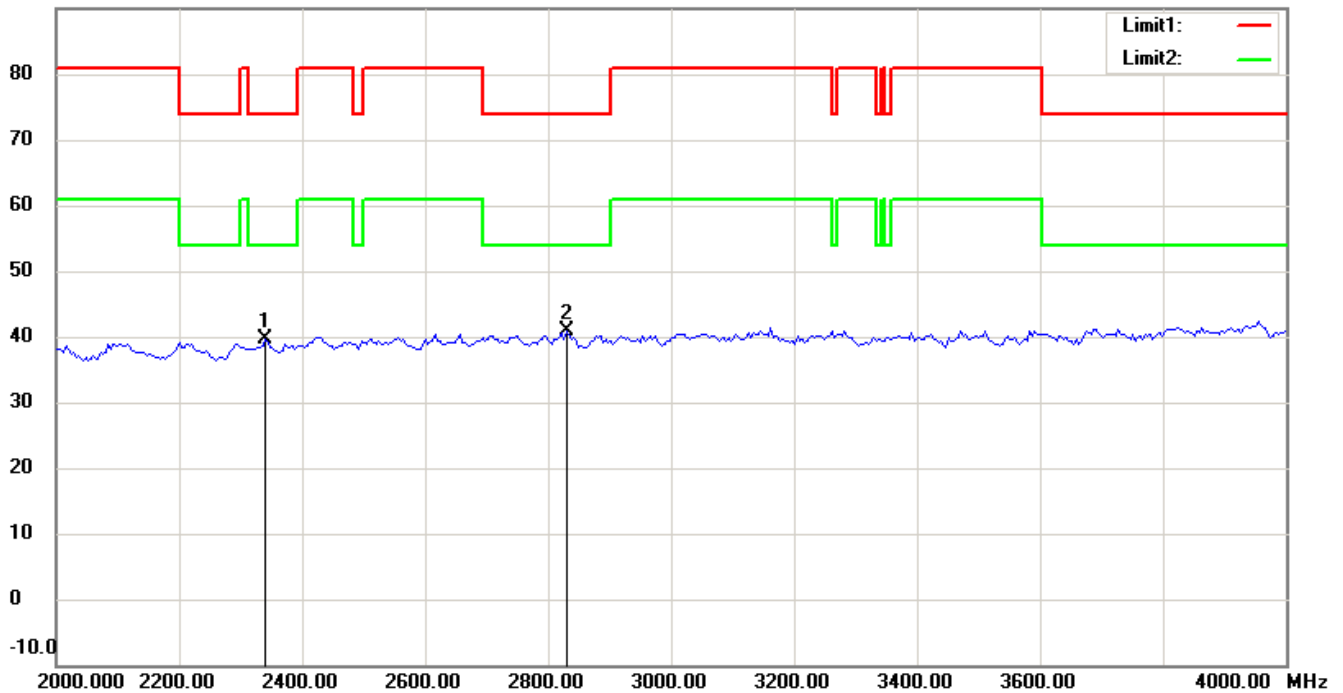


Worldwide Testing Services(Taiwan) Co., Ltd.

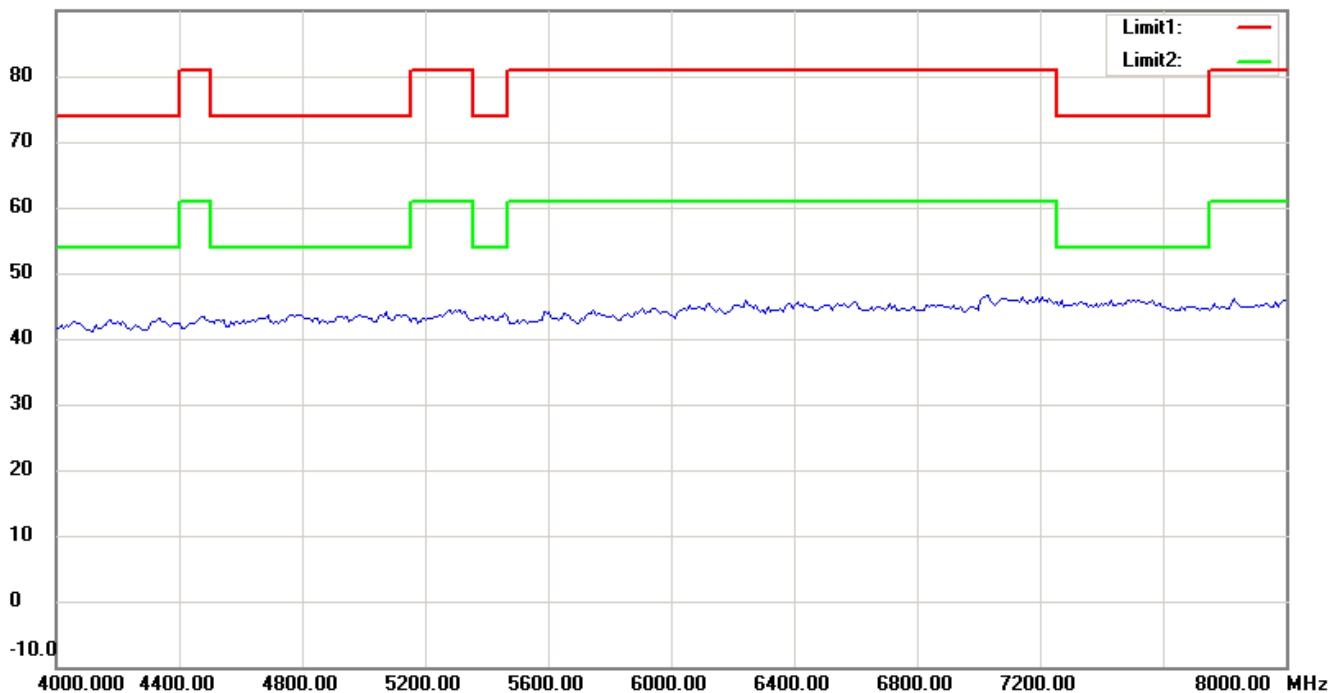
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FCC ID: GX9MZ

90.0 dBuV/m

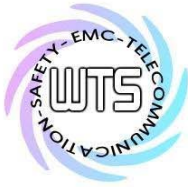


90.0 dBuV/m



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



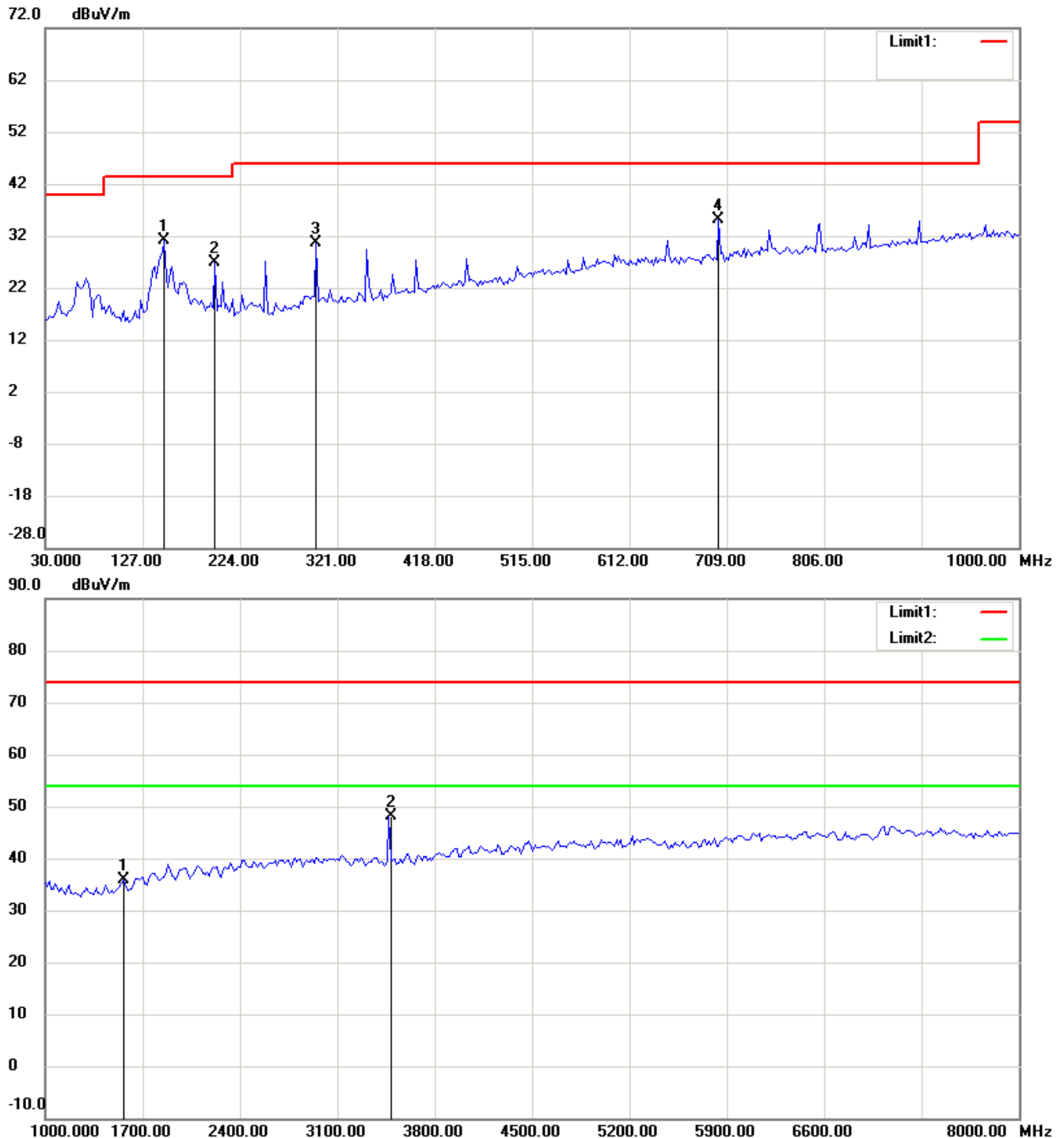
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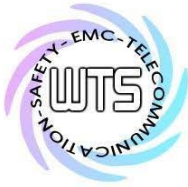
Spurious Emissions radiated _RX

Antenna Polarization H



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

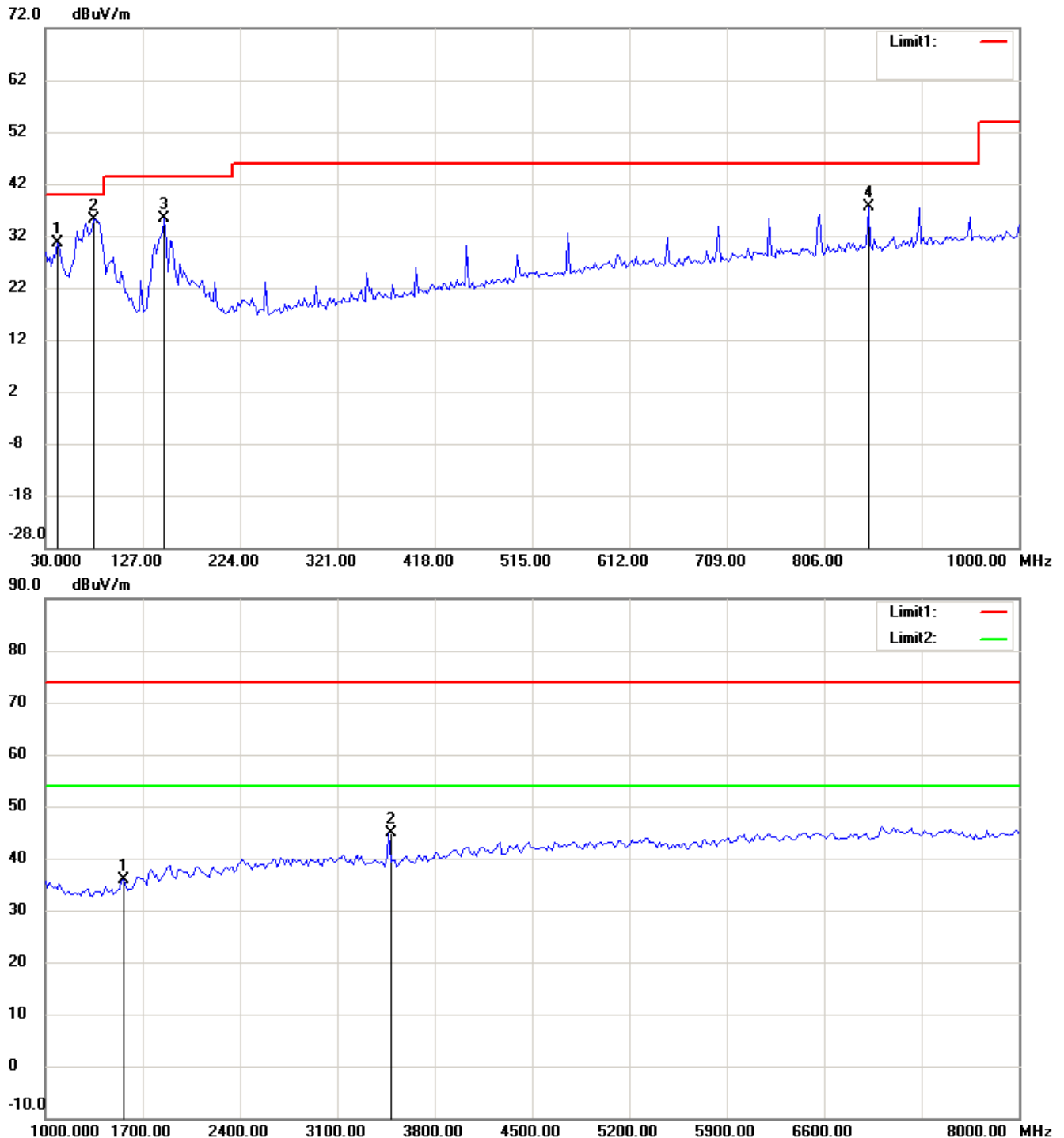


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

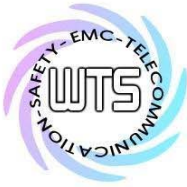
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Antenna Polarization V



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



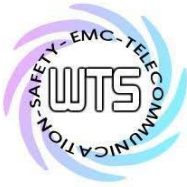
Worldwide Testing Services(Taiwan) Co., Ltd.

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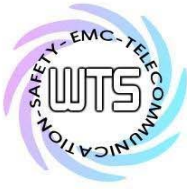
External Photos





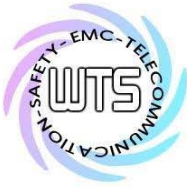
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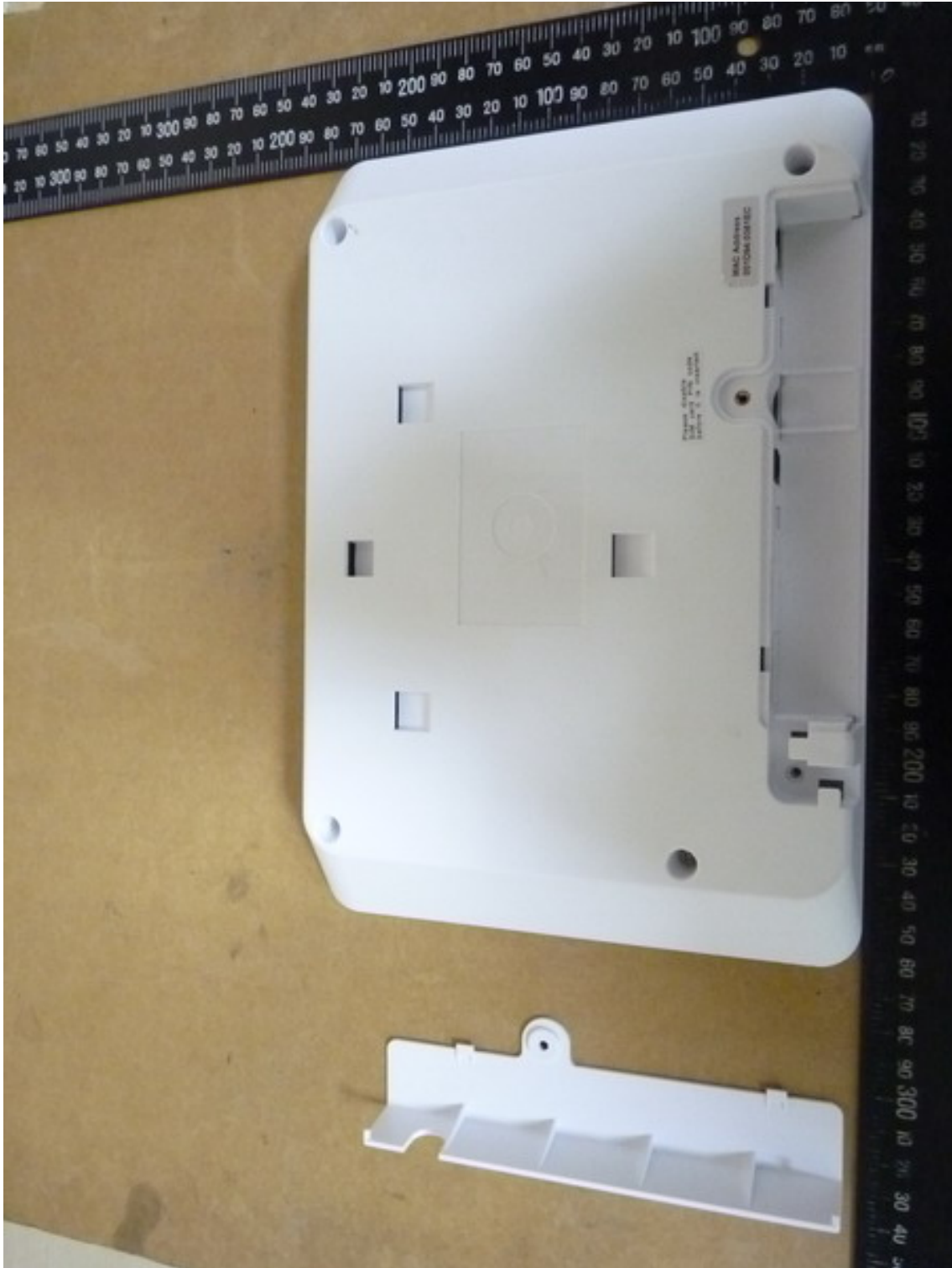


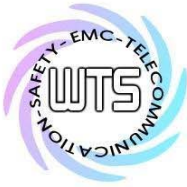
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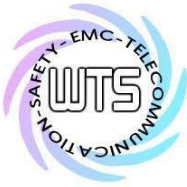
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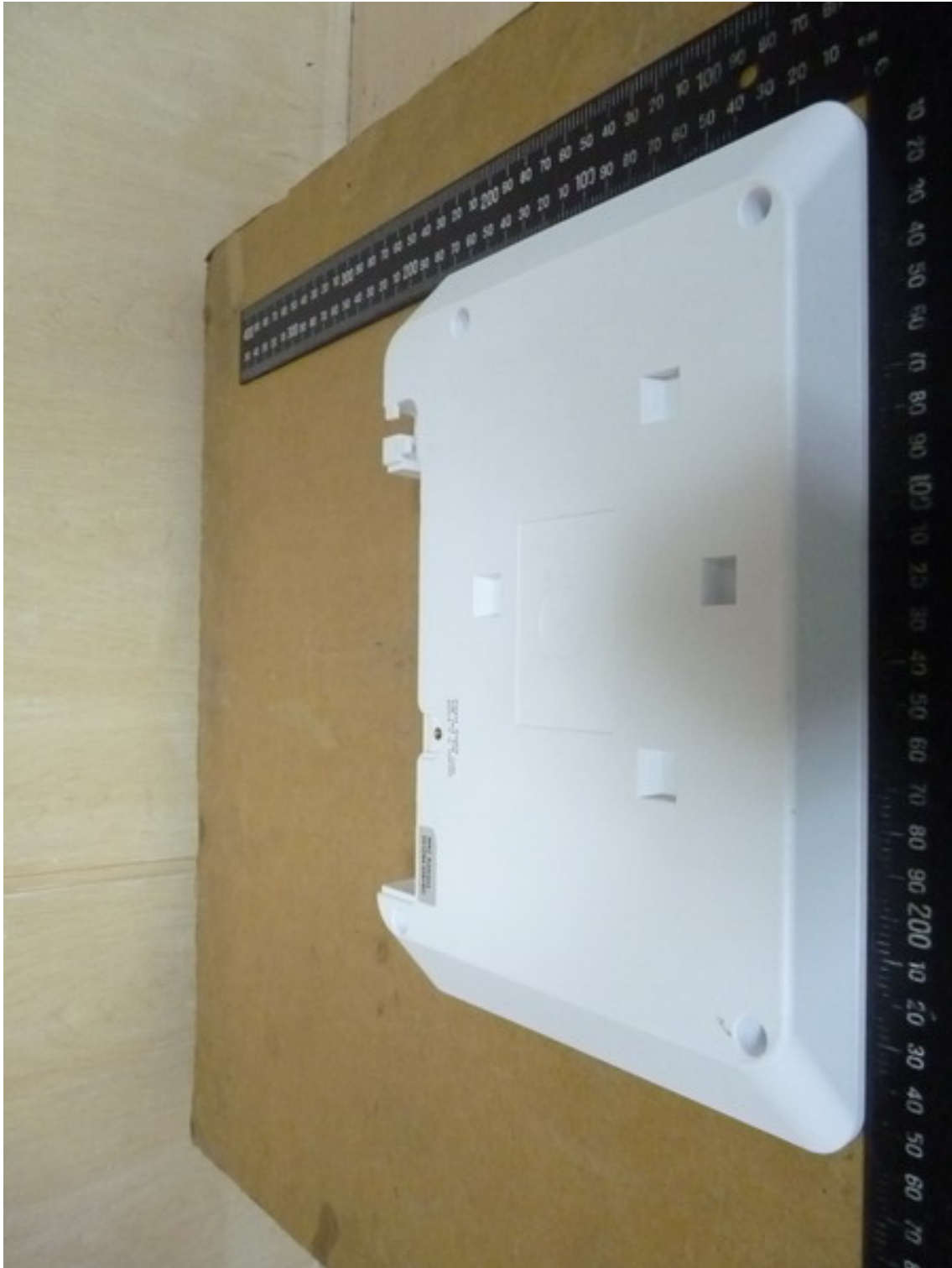


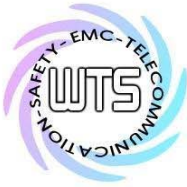
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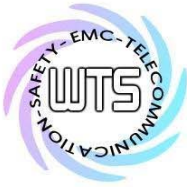




Worldwide Testing Services(Taiwan) Co., Ltd.

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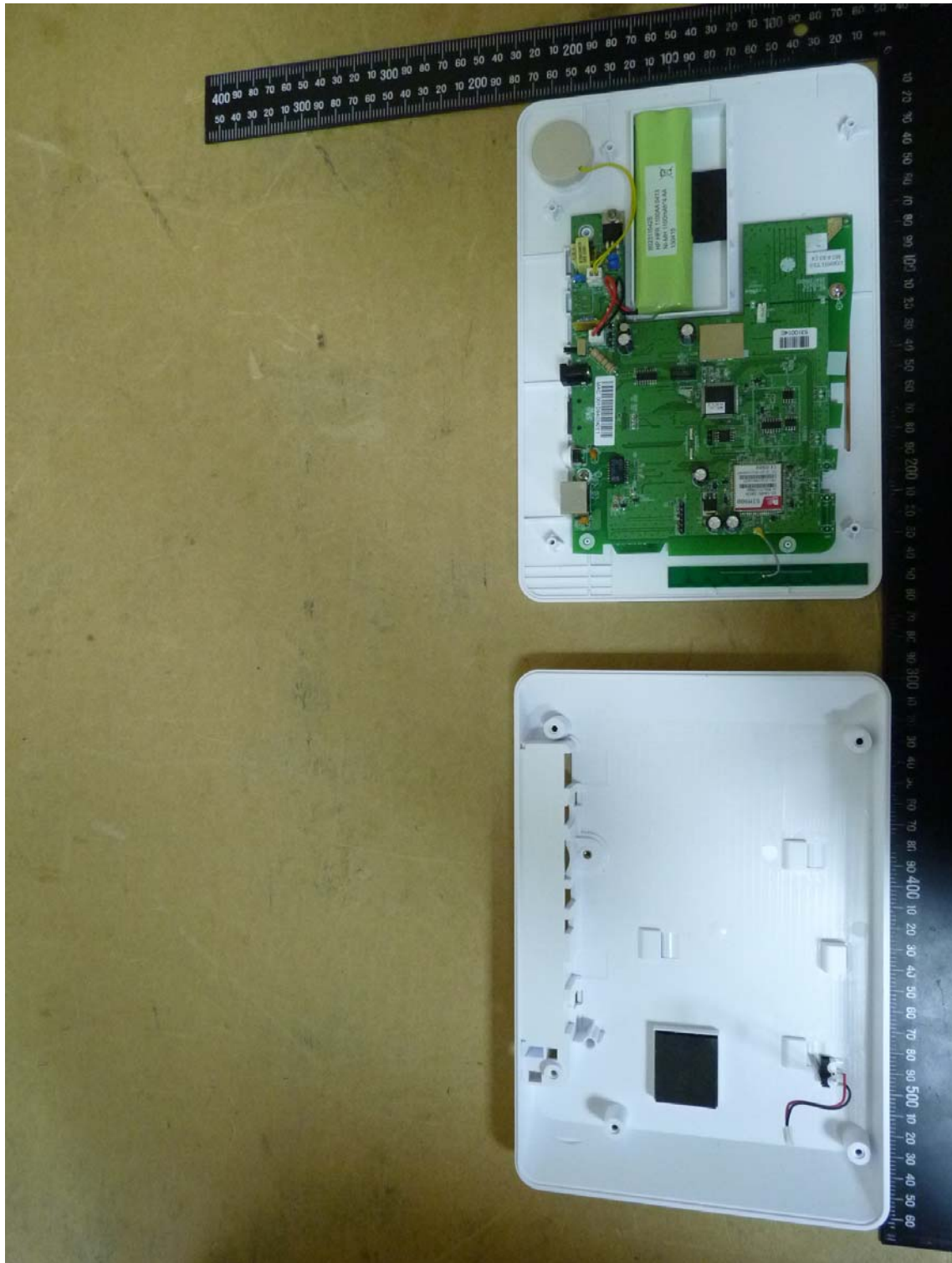


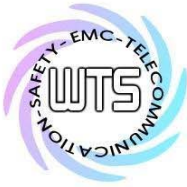
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

Internal Photos



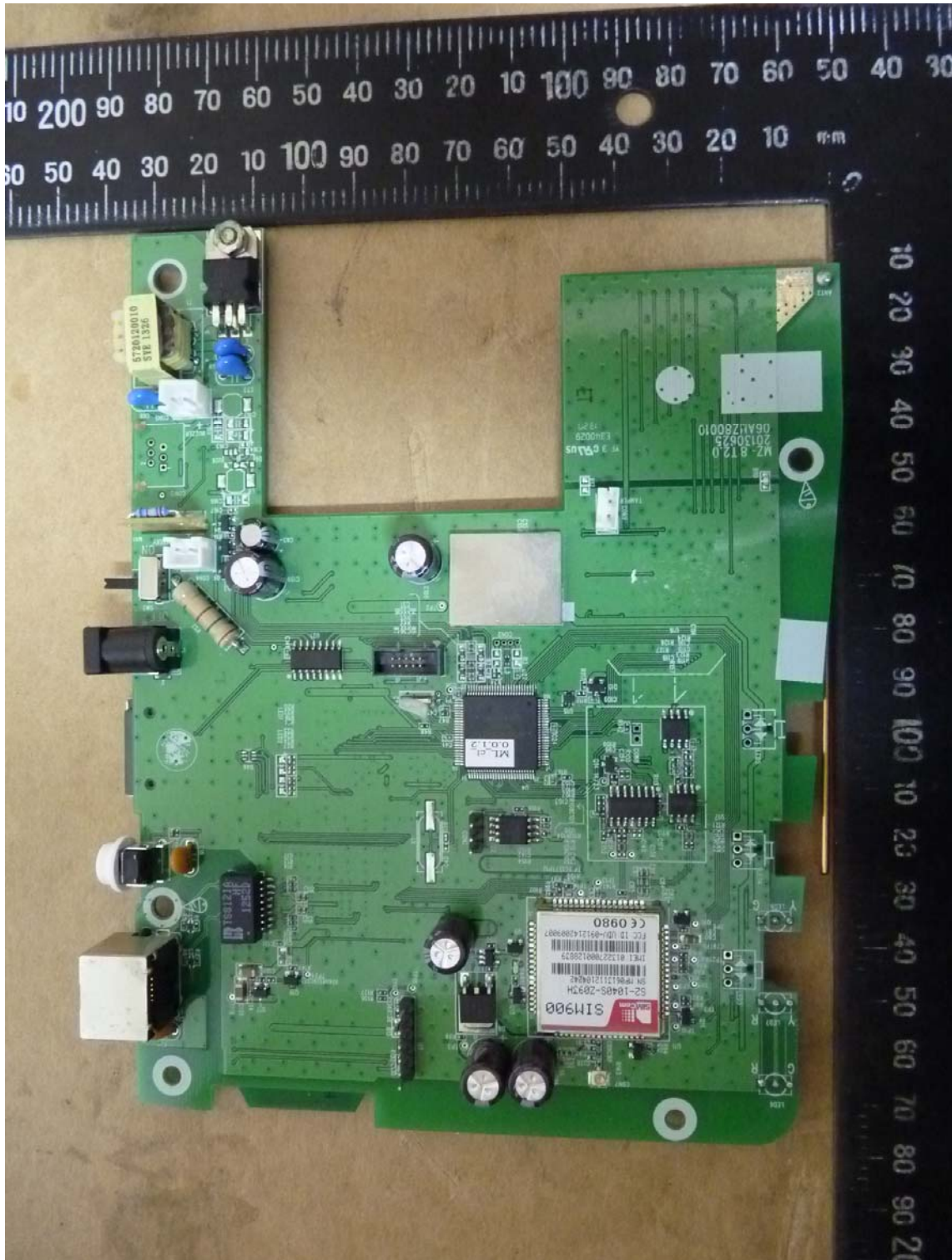


Worldwide Testing Services(Taiwan) Co., Ltd.

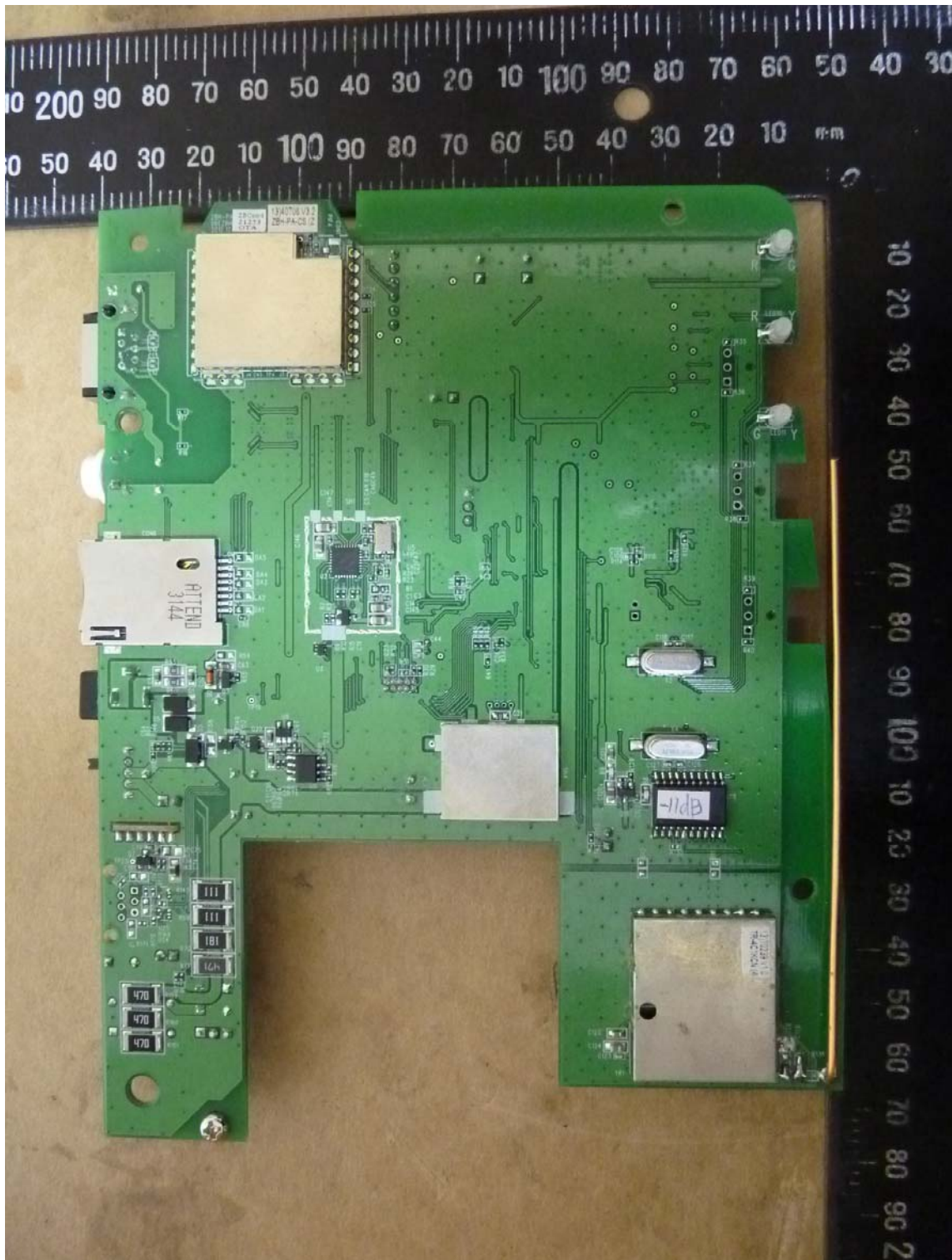
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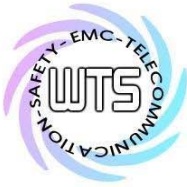


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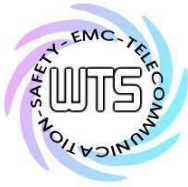




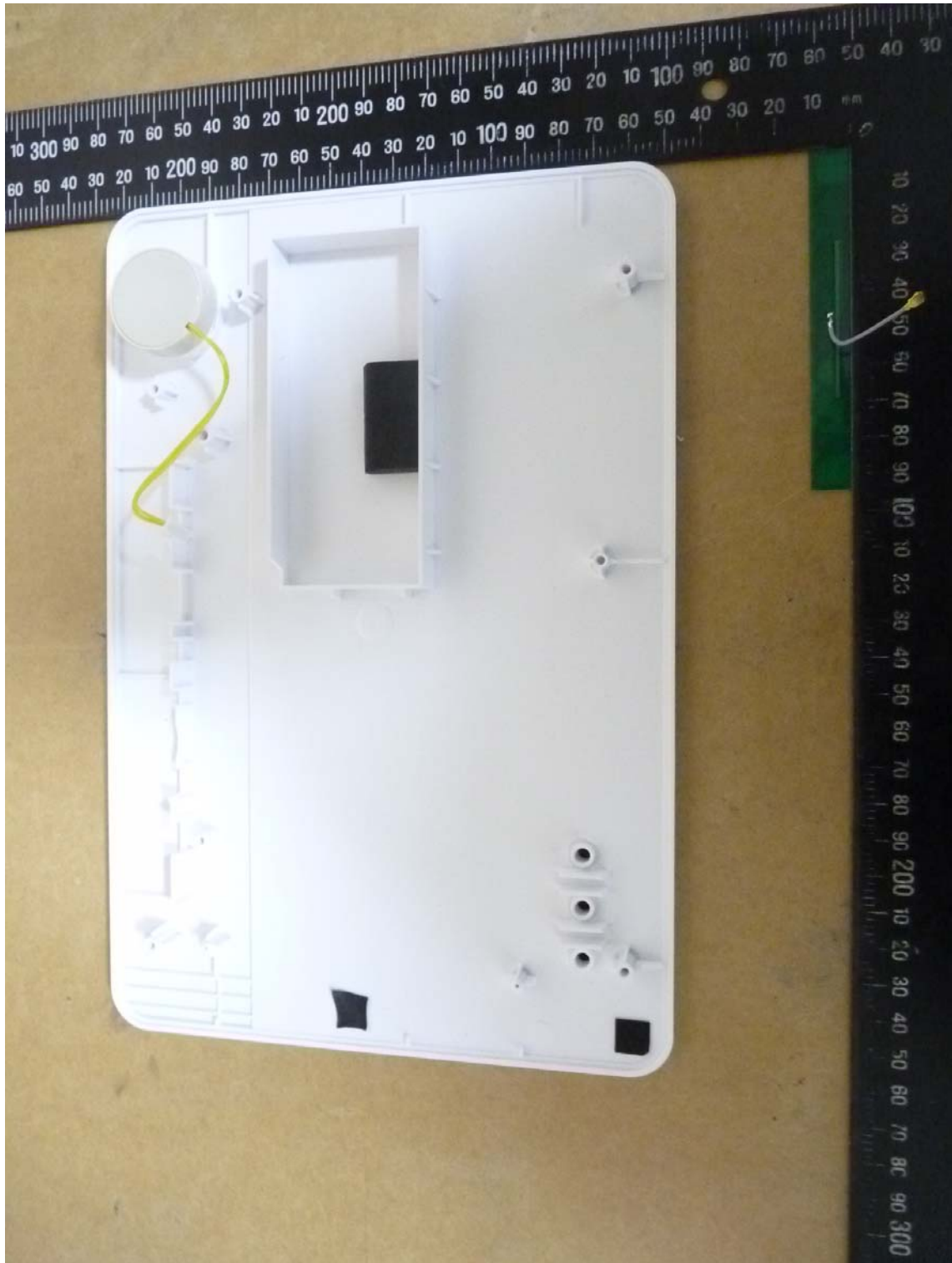
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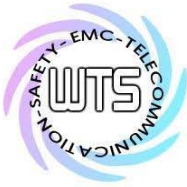
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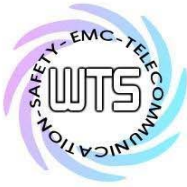
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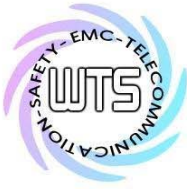
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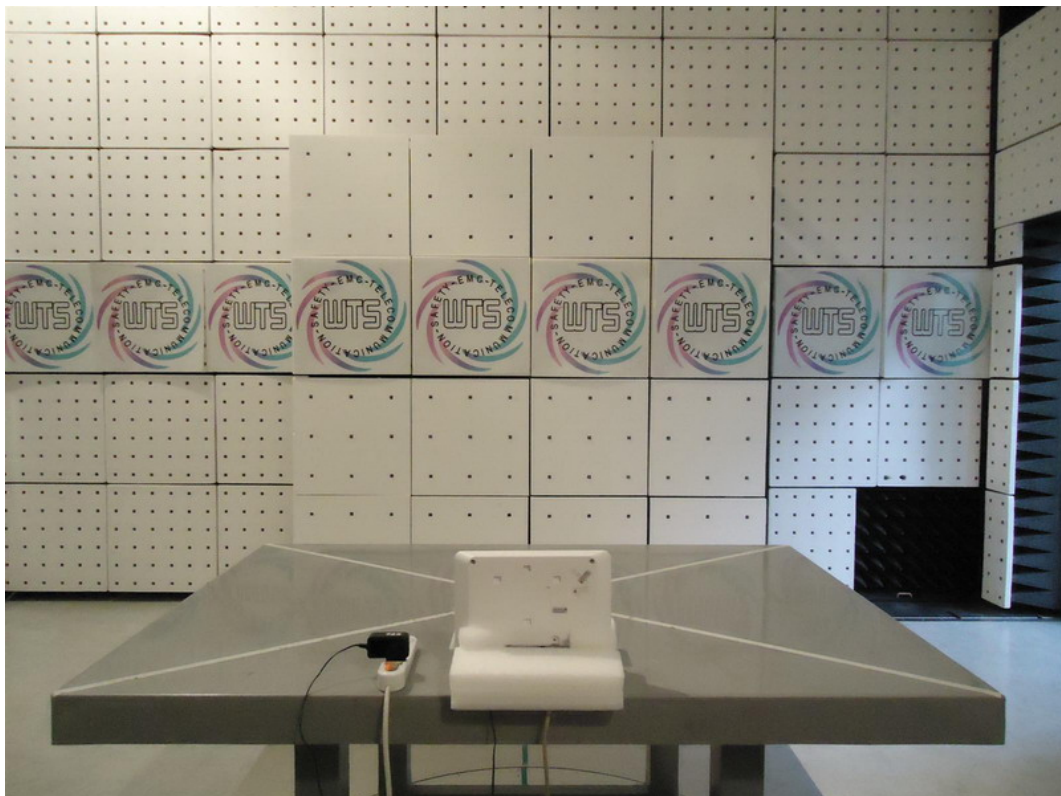


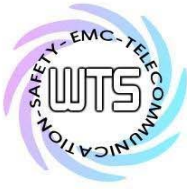
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

Set Up Photos of Radiated Emission





Registration number: W6M21309-13526-C-1

FCC ID: GX9MZ

Set Up Photo of Conducted Emission

