FCC PART 15 SUBPART C TEST REPORT

for

Wireless Towing lights

Model No.: PY-937

FCC ID: UAB937R01

of

Applicant: Many Wain Enterprise Co., Ltd
Address: 10, LANE 808, CHUNG SHAN ROAD, SHIN HWA
TAINAN CITY 712 Taiwan

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.: W6M21403-14019-C-1

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



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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 is 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:

March 28, 2014 Leon Chueh leon Chueh

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

March 28, 2014

Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207,

Taiwan (R.O.C.)

3 meter semi-anechoic chamber

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

TEL:886-2-6613-0228 FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd. 6F, NO. 58, LANE 188, RUEY-KUANG RD. NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877 Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2730.01

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:	./.



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1.3 Details of approval holder

Name: Many Wain Enterprise Co., Ltd

Street: 10, LANE 808, CHUNG SHAN ROAD, SHIN HWA

Town: TAINAN CITY 712

Country: Taiwan

Telephone: +886-6-597-2530 Fax: +886-6-597-2267

1.4 Application details

Date of receipt of test item: March 21, 2014

Date of test: From March 24, 2014 to March 28, 2014

1.5 General information of Test item

Type of test item: Wireless Towing lights

Model Number: PY-937

Multi-listing model number: ./.

Brand Name: PAI-YING Photos: see Annex

Technical data

Frequency band: 902-928 MHz
Operation Frequency: 904.6-925.4 MHz

Frequency 1: 904.6 MHz
Frequency 2: 915 MHz
Frequency 3: 925.4 MHz

Operation modes: Half-duplex

Modulation Type: 2FSK

Antenna type: Helix antenna

Antenna gain: 2 dBi

Power supply: Battery: 6Vdc (1.5Vdc*4)

Manufacturer: (if different from applicant)

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

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1.6 Test standards

Technical standard: FCC RULES PART 15 SUBPART C § 15.249 (2013-10)

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	×
or	
The deviations as specified in 2.5 were ascertained in the course of the tests performed.	

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details Power supply: Battery: 6Vdc (1.5Vdc*4)

Extreme conditions parameters: Not required



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2.3 Test Equipment List

No.	Test equipment	Туре	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	Functio	on Test
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Functio	on Test
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2013/7/10	2014/7/9
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2013/10/28	2014/10/27
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 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2013/10/15	2014/10/14
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2013/7/3	2014/7/2
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2014/2/25	2015/2/24
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-te	st Use
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2014/2/18	2015/2/17
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2014/3/3	2015/3/2
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	2014/3/3	2015/3/2
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	Functio	on Test
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function	on Test
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	НР	2013/10/7	2014/10/6
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2013/10/11	2014/10/10
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2014/3/3	2015/3/2
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	Functi	on test
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10	2015/1/09
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Functi	on 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



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ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2014/3/3	2015/3/2
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-te	st Use
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	2015/1/09
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748- 1743/1752-32/5SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5 -1875.5/1884.5- 32/5SS	3	WI	2014/1/10	2015/1/09
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1- 904.25-50/8SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2013/9/18	2014/9/17
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2014/2/27	2015/2/26
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test I	Jse NCR
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2014/2/27	2015/2/26
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2014/2/19	2015/2/18
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2013/10/11	2014/10/10
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2013/10/11	2014/10/10
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2013/11/27	2014/11/26
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 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2014/2/19	2015/2/18
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2014/2/19	2015/2/18
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version E	TS-03A1

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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 according to ANSI STANDARD C63.4-2009 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of $dB\mu V$) 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

 $20 \text{ dB}\mu\text{V} + 10.36 \text{ dB} + 6 \text{ dB} = 36.36 \text{ dB}\mu\text{V/m} \text{ @3m}$

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

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

Measurements were made by Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). 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)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	×	×	
Spurious Emissions radiated – Transmitter operating	15.249 (e)	×	×	
Spurious Emissions conducted – Transmitter operating	15.249 (e)			
Radiated Emission from Receiver Part	15.109	×	×	
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (e)	×	×	
Power Line Conducted Emission	15.207			

The following is intentionally left blank.



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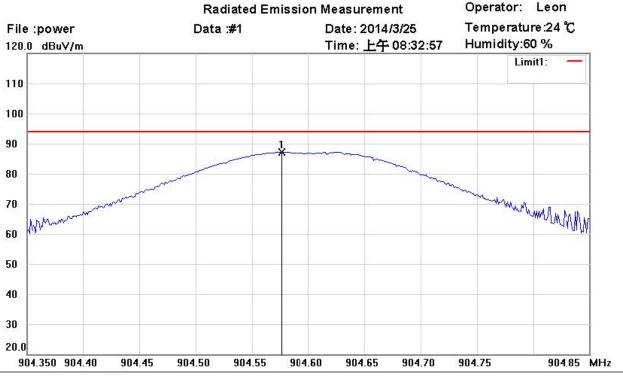
3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

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

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

904.6 MHz



Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization: Horizontal

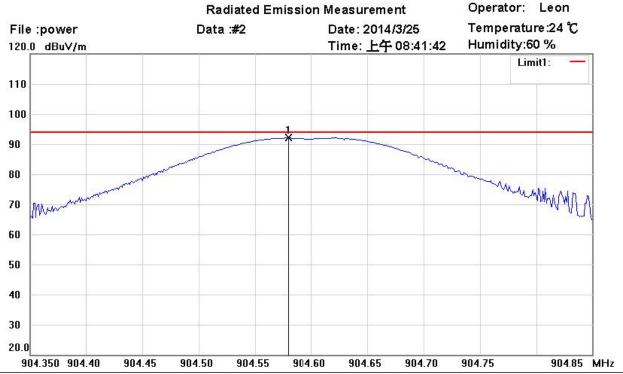
Test Mode: Power

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
*	904.5765	59.86	peak	27.22	87.08	94.00	100	10	-6.92	



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Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization: Vertical

Test Mode: Power

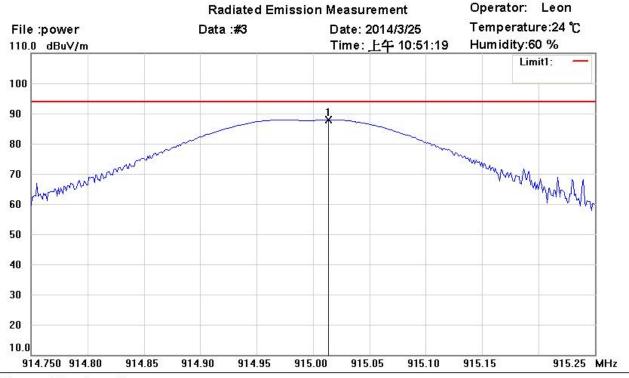
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	904.5795	64.80	QP	27.22	92.02	94.00	100	250	-1.98	



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915 MHz



Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization: Horizontal

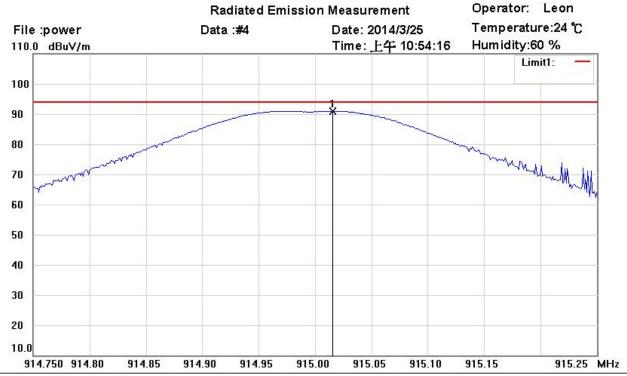
Test Mode: Power

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
*	915.0135	60.58	peak	27.40	87.98	94.00	100	190	-6.02	



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Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization:

Test Mode: Power

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
*	915.0155	63.57	QP	27.40	90.97	94.00	100	250	-3.03	

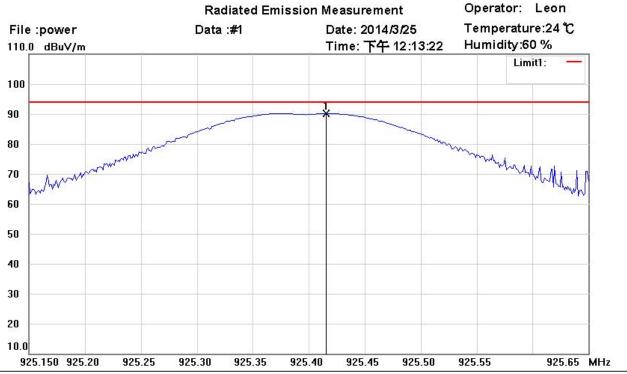
Vertical



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925.4 MHz



Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization: Horizontal

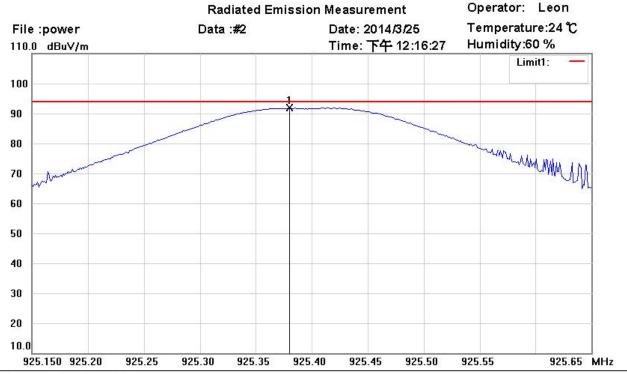
Test Mode: Power

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
*	925.4155	62.52	peak	27.58	90.10	94.00	100	190	-3.90	



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Site: Chamber_01

Condition: FCC 15.249 power(902-928)_QP Polarization: Vertical

Test Mode: Power

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
*	925.3805	64.31	QP	27.58	91.89	94.00	100	180	-2.11	

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

Explanation:./.

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3.2 Equivalent isotropic radiated power

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

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

Frequency of Emission	Field strength	Field Strength
(MHz)	(microvolts/meter)	(dB microvolts/meter)
30 - 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 044

Explanation: Please see attached diagram as appendix.



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3.5 Spurious emission (tx)

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

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

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

The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model: PY-937 Date: 2014/3/25

Mode: TX 904.6MHz 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)
43.6072	3.89	peak	14.05	17.94	40.00	-22.06	155	100
173.8477	4.60	peak	14.36	18.96	43.50	-24.54	90	100

Frequency	Rea	ding	Factor	Result	@3m	Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1809.2000	42.98		-6.92	36.06	1	74.00	54.00	-37.94	130	100
2713.8000	42.78		-4.05	38.73	1	74.00	54.00	-35.27	60	100
5426.8540	48.81		1.58	50.39	1	74.00	54.00	-23.61	170	100
7236.8020	59.26	40.52	3.77	63.03	44.29	74.00	54.00	-9.71	20	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
156.3527	4.06	peak	15.37	19.43	43.50	-24.07	115	100
566.5130	5.46	peak	22.38	27.84	46.00	-18.16	140	100



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Frequency	Rea (dB	ding uV)	Factor (dB)				Limit @3m (dBuV/m)		Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1809.2000	42.86		-6.92	35.94		74.00	54.00	-38.06	55	100
2713.8000	42.45		-4.05	38.40		74.00	54.00	-35.60	140	100
5426.8540	48.47		1.58	50.05		74.00	54.00	-23.95	190	100
7236.6690	64.79	41.95	3.77	68.56	45.72	74.00	54.00	-8.28	280	100

Mode: TX 915MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
134.9700	4.92	peak	14.53	19.45	43.50	-24.05	155	100
469.3186	5.31	peak	20.27	25.58	46.00	-20.42	80	100

Frequency		ding	Factor	Result @3m				Margin	Table	Ant.
4	`	uV)	(dB)	`	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1830.0000	42.61		-6.71	35.90		74.00	54.00	-38.10	140	100
2745.0000	43.29		-3.93	39.36		74.00	54.00	-34.64	190	100
5490.9820	53.16	41.73	1.69	54.85	43.42	74.00	54.00	-10.58	175	100
7320.0460	59.77	40.51	3.65	63.42	44.16	74.00	54.00	-9.84	300	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
311.8637	5.81	peak	16.29	22.10	46.00	-23.90	150	100
477.0942	4.82	peak	20.39	25.21	46.00	-20.79	170	100

Frequency	Rea	ding	Factor	Result	@3m	Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1830.0000	43.09		-6.71	36.38		74.00	54.00	-37.62	210	100
2745.0000	42.99		-3.93	39.06		74.00	54.00	-34.94	170	100
5490.9820	48.29		1.69	49.98		74.00	54.00	-24.02	170	100
7326.6530	57.34	41.67	3.67	61.01	45.34	74.00	54.00	-8.66	270	100

Mode: TX 925.4MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
432.3848	4.39	peak	19.70	24.09	46.00	-21.91	40	100
630.6613	5.18	peak	23.44	28.62	46.00	-17.38	160	100



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FCC ID: UAB937R01

Frequency	Rea	ding	Factor	Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1850.8000	43.39		-6.50	36.89		74.00	54.00	-37.11	235	100
2776.2000	42.09		-3.81	38.28		74.00	54.00	-35.72	90	100
5547.0940	50.02		1.62	51.64		74.00	54.00	-22.36	145	100
7406.8140	61.62	41.65	3.90	65.52	45.55	74.00	54.00	-8.45	280	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
339.0782	4.08	peak	17.01	21.09	46.00	-24.91	120	100
622.8858	4.99	peak	23.38	28.37	46.00	-17.63	75	100

Frequency		ding	Factor		:@3m			Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBu	V/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1850.8000	43.34		-6.50	36.84		74.00	54.00	-37.16	170	100
2776.2000	41.71		-3.81	37.90		74.00	54.00	-36.10	190	100
5555.1100	46.59		1.61	48.20		74.00	54.00	-25.80	155	100
7406.8140	58.63	40.71	3.90	62.53	44.61	74.00	54.00	-9.39	170	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, OP = 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: $30\text{-}1000~\text{MHz} = \pm 3.68~\text{dB}$, $1\text{-}18~\text{GHz} = \pm 5.37~\text{dB}$, $18\text{-}40~\text{GHz} = \pm 3.43~\text{dB}$; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 6. Up Line: PK Limit Line, Down Line: Ave Limit Line.
- 7. See attached diagrams in appendix.

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 088, ETSTW-RE 018



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3.6 Radiated Emissions from Receiver Part

Summary table with radiated data of the test plots

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

Receiver part

Model: Mode: Polarization:	R Horizontal	PY-937 RX 904.6MHz Humidity:		Date: Temperature: Humidity:	24 60	2014/3/25 °C %	Engineer:	Leon
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
158.2966	3.63	peak	15.38	19.01	43.50	-24.49	155	100
364.3487	4.43	peak	17.59	22.02	46.00	-23.98	130	100
527.6353	4.46	peak	21.48	25.94	46.00	-20.06	170	100
725.9117	4.68	peak	24.93	29.61	46.00	-16.39	40	100

Frequency	Reading (dBuV)		Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Äve.	Peak	Ave.	(dB)	(Deg.)	(cm)
1561.1220	44.46		-8.61	35.85		74.00	54.00	-38.15	115	100
4002.0040	42.79		-0.68	42.11		74.00	54.00	-31.89	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
51.3828	4.19	peak	14.14	18.33	40.00	-21.67	205	100
127.1944	5.80	peak	13.88	19.68	43.50	-23.82	150	100
379.8998	3.48	peak	18.16	21.64	46.00	-24.36	130	100
605.3908	4.90	peak	23.24	28.14	46.00	-17.86	170	100

Frequency	Reading		Factor	Res	sult	Lir	nit	Margin	Table	Ant.
	(dE	BuV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave	(dB)	(Deg.)	(cm)
1561.1220	44.29		-8.61	35.68		74.00	54.00	-38.32	80	100
4450.9020	43.69		-0.44	43.25		74.00	54.00	-30.75	135	100



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Mode: RX 915MHz Polarization: Horizontal Humidity:

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
156.3527	4.10	peak	15.37	19.47	43.50	-24.03	155	100
311.8637	4.02	peak	16.29	20.31	46.00	-25.69	80	100
492.6453	4.54	peak	20.74	25.28	46.00	-20.72	130	100
735.6313	4.85	peak	25.11	29.96	46.00	-16.04	60	100

Frequency		Reading (dBuV)		Res			nit	Margin	Table	Ant.
	(dE	₿uV)	(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1561.1220	44.80		-8.61	36.19		74.00	54.00	-37.81	155	100
4044.0880	42.86		-0.95	41.91		74.00	54.00	-32.09	70	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
119.4188	7.19	peak	13.15	20.34	43.50	-23.16	205	100
368.2365	4.03	peak	17.73	21.76	46.00	-24.24	160	100
473.2064	4.61	peak	20.33	24.94	46.00	-21.06	130	100
537.3547	5.12	peak	21.66	26.78	46.00	-19.22	70	100

Frequency		nding BuV)	Factor (dB)	Res (dBu)			nit V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Áve.	Peak	Áve	(dB)	(Deg.)	(cm)
1561.1220	44.49		-8.61	35.88		74.00	54.00	-38.12	55	100
4464.9300	43.29		-0.31	42.98		74.00	54.00	-31.02	140	100

Mode: RX 925.4MHz Polarization: Horizontal Humidity:

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
162.1844	3.95	peak	15.27	19.22	43.50	-24.28	55	100
292.4248	3.51	peak	15.84	19.35	46.00	-26.65	140	100
426.5531	4.31	peak	19.49	23.80	46.00	-22.20	190	100
653.9880	4.60	peak	23.66	28.26	46.00	-17.74	170	100



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Frequency		nding BuV)	Factor (dB)		Result (dBuV/m)		Limit (dBuV/m)		Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1561.1220	44.54		-8.61	35.93		74.00	54.00	-38.07	155	100
3945.8920	42.65		-0.87	41.78		74.00	54.00	-32.22	30	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
119.4188	7.77	peak	13.15	20.92	43.50	-22.58	75	100
311.8637	5.31	peak	16.29	21.60	46.00	-24.40	120	100
459.5992	4.40	peak	20.12	24.52	46.00	-21.48	150	100
576.2325	4.66	peak	22.79	27.45	46.00	-18.55	130	100

Frequency		nding BuV)	Factor (dB)	Res (dBu		Lir (dBu	nit V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Åve.	Corr.	Peak	Áve.	Peak	Áve	(dB)	(Deg.)	(cm)
1561.1220	44.52		-8.61	35.91		74.00	54.00	-38.09	45	100
4478.9580	44.17		-0.18	43.99		74.00	54.00	-30.01	160	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 : $30\text{-}1000 \text{ MHz} = \pm 3.68 \text{ dB}$, $1\text{-}18 \text{ GHz} = \pm 5.37 \text{ dB}$, $18\text{-}40 \text{ GHz} = \pm 3.43 \text{ dB}$; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 6. See attached diagrams in appendix.

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

ETSTW-RE 044

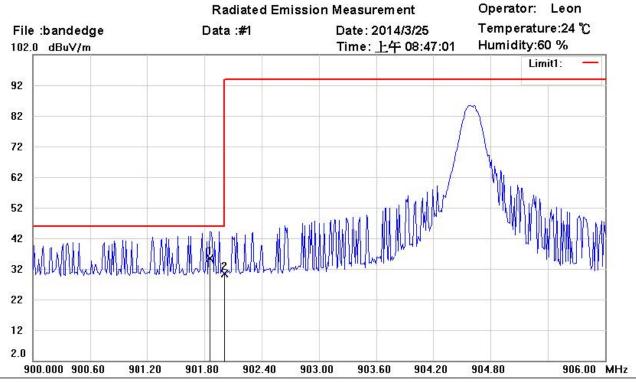


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and hey at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site: Chamber_01

Condition: FCC 15.249 Bandedge(902-928)_QP

Test Mode: 904.6MHz

Note:

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	901.8636	8.23	QP	27.17	35.40	46.00	100	15	-10.60	
	902.0000	3.31	peak	27.17	30.48	46.00	100	0	-15.52	

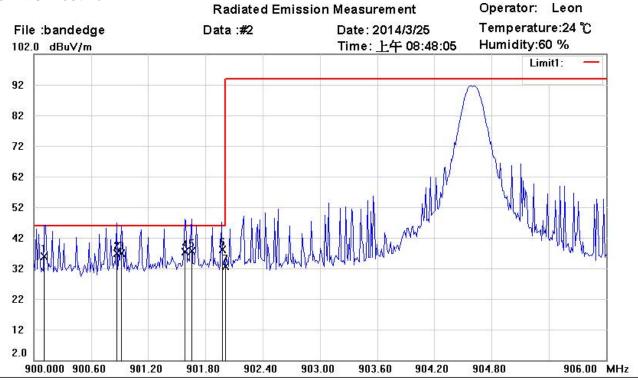
Polarization:

Horizontal



Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Polarization:

6 Vd.c.

Power:

Vertical

Site: Chamber_01

Condition: FCC 15.249 Bandedge(902-928)_QP

EUT: W6M21403-14019

M/N: PY-937 Distance: 3m

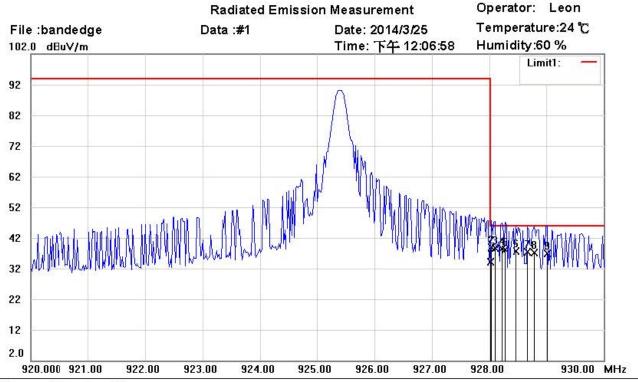
Test Mode: 904.6MHz

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
	900.1082	8.80	QP	27.14	35.94	46.00	100	260	-10.06	
	900.8657	9.75	QP	27.15	36.90	46.00	100	0	-9.10	
	900.9138	9.63	QP	27.16	36.79	46.00	100	20	-9.21	
	901.5872	10.10	QP	27.17	37.27	46.00	100	140	-8.73	
	901.6593	10.36	QP	27.17	37.53	46.00	100	130	-8.47	
*	901.9720	10.90	QP	27.17	38.07	46.00	100	10	-7.93	
	902.0000	5.45	peak	27.17	32.62	46.00	100	10	-13.38	



Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Site: Chamber_01

Condition: FCC 15.249 Bandedge(902-928)_QP Polarization:

Test Mode: 925.4MHz

Note:

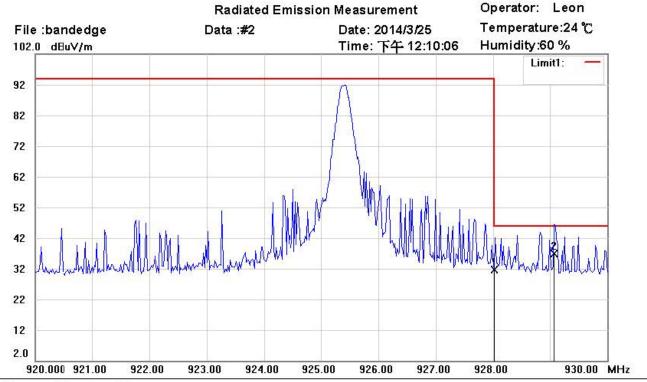
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
3	928.0000	6.62	peak	27.62	34.24	46.00	100	175	-11.76	
*	928.0361	11.35	QP	27.62	38.97	46.00	100	0	-7.03	
	928.0962	11.10	QP	27.62	38.72	46.00	100	90	-7.28	
55	928.2164	10.76	QP	27.63	38.39	46.00	100	135	-7.61	
	928.2766	10.53	QP	27.63	38.16	46.00	100	70	-7.84	
	928.4770	10.06	QP	27.63	37.69	46.00	100	280	-8.31	
- 29	928.6774	9.77	QP	27.63	37.40	46.00	100	140	-8.60	
	928.7976	9.38	QP	27.64	37.02	46.00	100	175	-8.98	
	929.0180	9.12	QP	27.64	36.76	46.00	100	20	-9.24	

Horizontal



Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Site: Chamber_01

Condition: FCC 15.249 Bandedge(902-928)_QP

Test Mode: 925.4MHz

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
	928.0000	4.05	peak	27.62	31.67	46.00	100	10	-14.33	
*	929.0782	9.35	QP	27.64	36.99	46.00	100	280	-9.01	

Polarization:

Vertical

Limit:

Frequency Range (MHz)	Limit (dBµV/m)				
Trequency Range (MITZ)	Peak	Average			
902 – 928	114	94			
2400 – 2483.5	74	54			
5725 – 5875	74	54			

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 044

Explanation: ./.

FCC ID: UAB937R01

3.8 Power Line Conducted Emission

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

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

Model:		PY-	937		Date:					
Mode:			Tempe	rature:		°C		Engineer:		
Polarization:	N		Humidi	ty:		%		-		
Frequency	Rea	ding	Factor	Re	sult	Lir	mit	Margin	Position	
	(dB	uV)	(dB)	(dB	uV)	(dB	uV)			Note
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)	(cm)	

Polarization: L1

Frequency	Rea	Reading Factor Result Limit		Margin	Position					
	(dB	uV)	(dB)	(dB	uV)	(dB	uV)			Note
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)	(cm)	
				1		1	1			

Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor

- 2. The Correction Factor = Cable Loss + LISN Insertion Loss
- 3. Detector function in the form: PK = Peak, QP = Qusai Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. Measurement uncertainty = ± 1.41 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.
- 7. This test is not required due to the EUT is battery back-up.

Limits:

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

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-CE 006, ETSTW-RE 045

FCC ID: UAB937R01

Appendix

A. Measurement diagrams

Spurious Emissions radiated

B. Photos

- 1. External Photos
- 2. Internal Photos
- 3. Set Up Photo of Radiated Emission



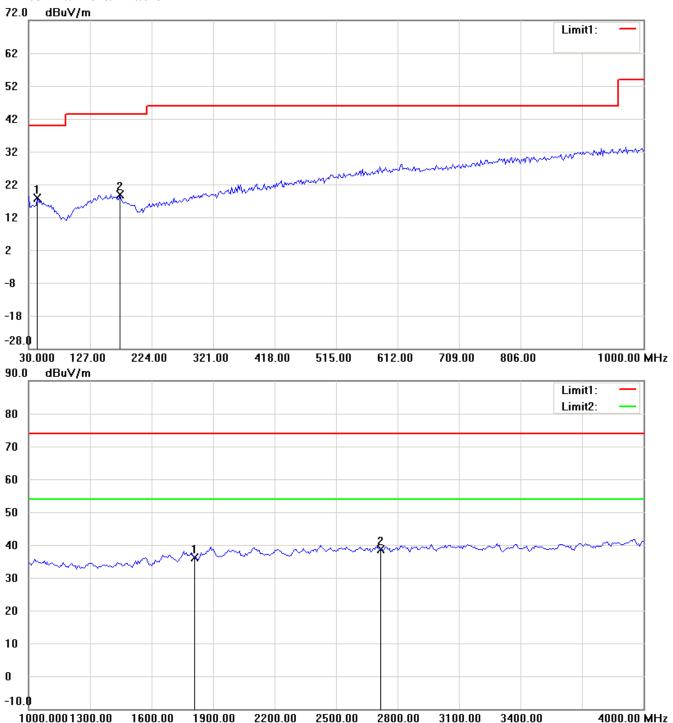
Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

Spurious Emissions radiated_Transmitter

904.6MHz

Antenna Polarization H

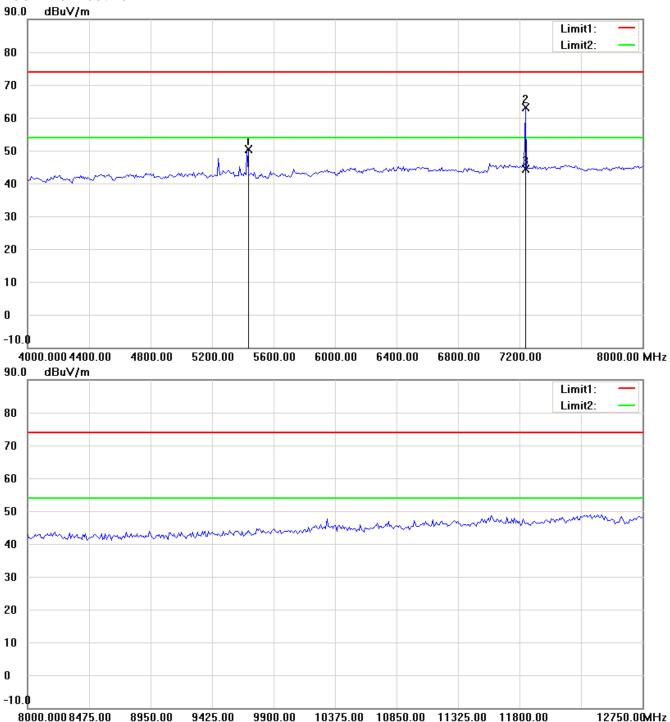


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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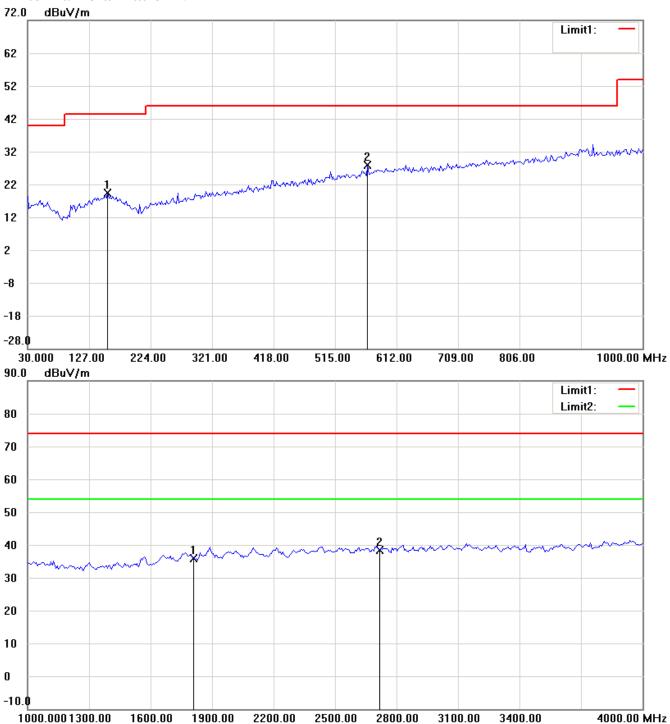
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M21403-14019-C-1

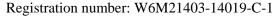
FCC ID: UAB937R01

Antenna Polarization V

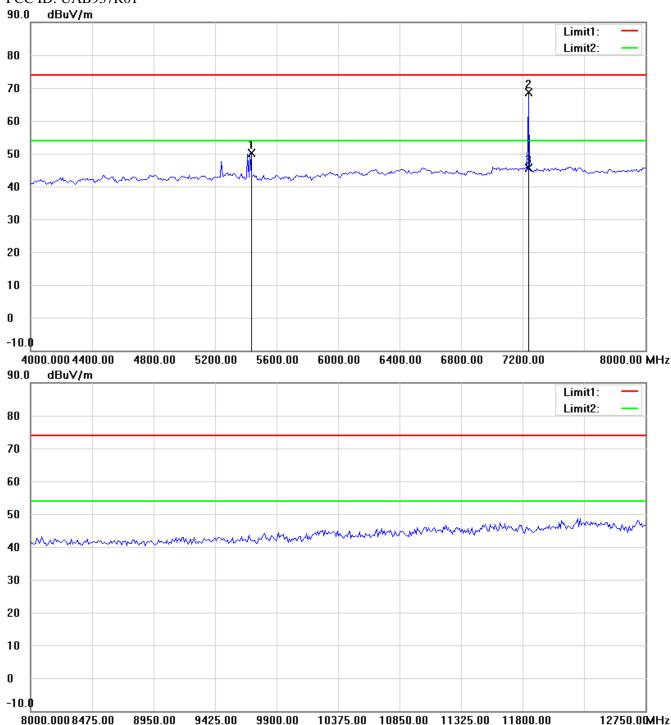


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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





FCC ID: UAB937R01



- 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.
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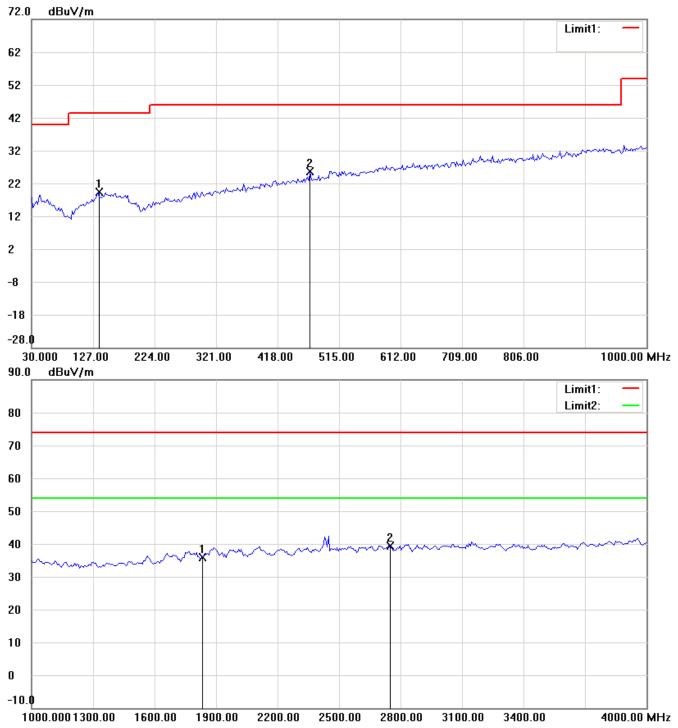


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

915MHz

Antenna Polarization H

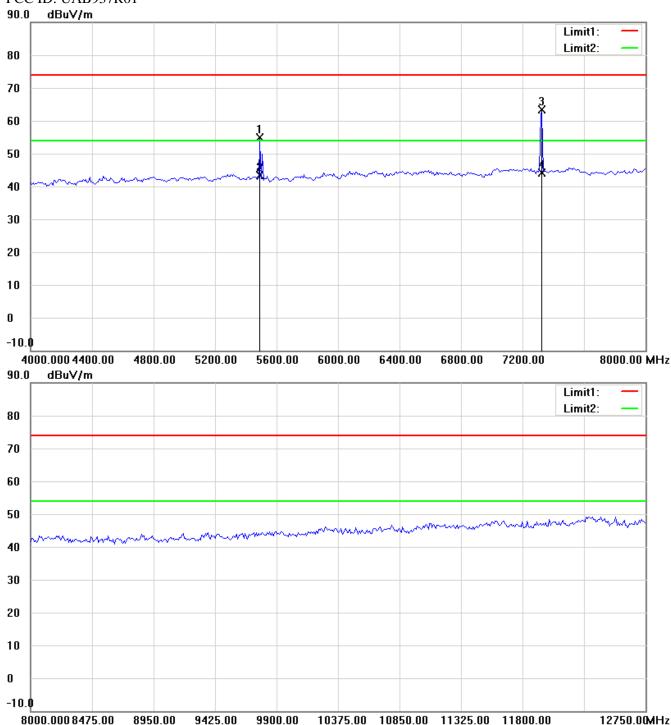


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Registration number: W6M21403-14019-C-1

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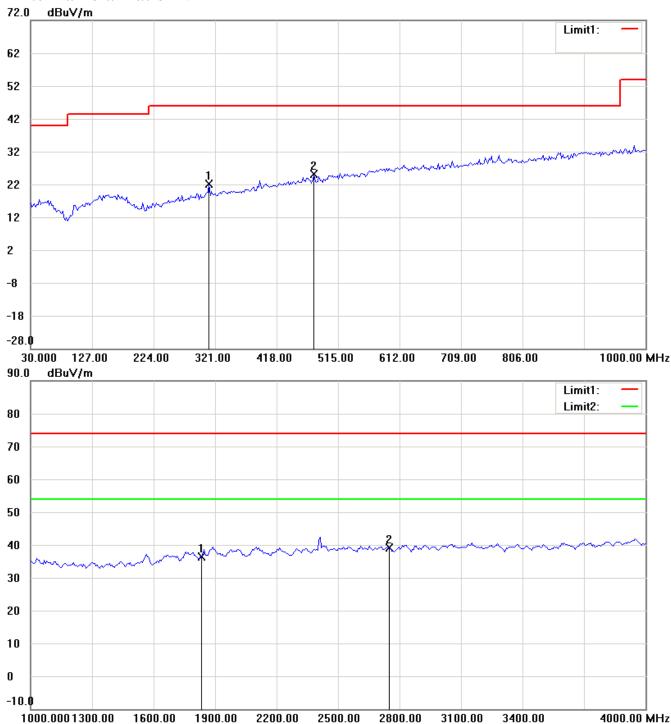
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FCC ID: UAB937R01

Antenna Polarization V

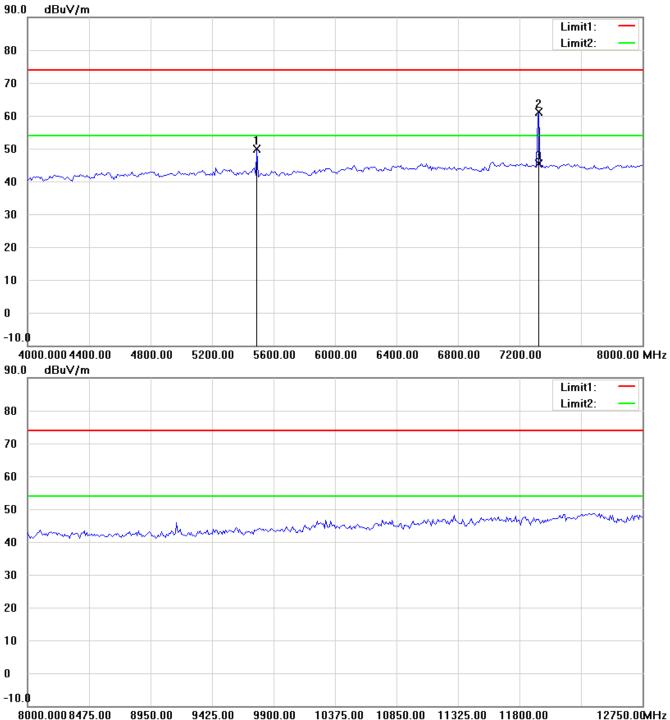


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Registration number: W6M21403-14019-C-1

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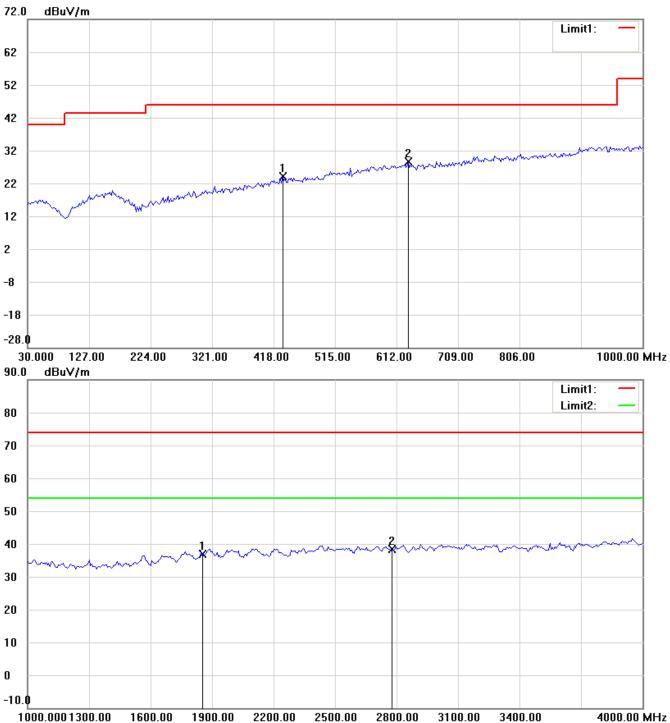


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

925.4MHz

Antenna Polarization H

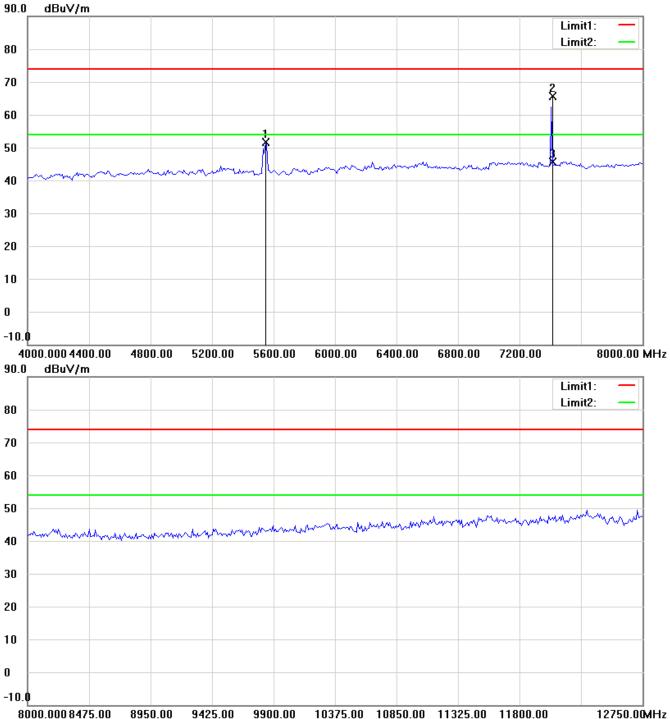


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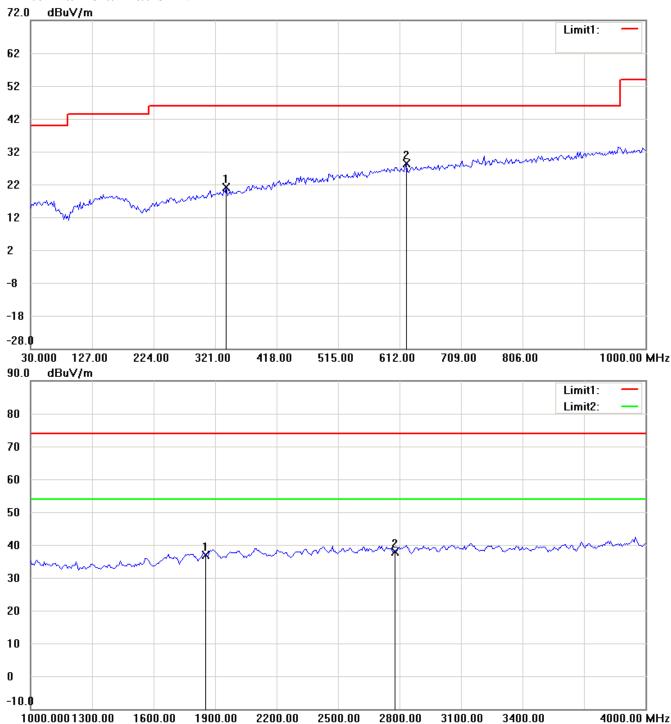
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FCC ID: UAB937R01

Antenna Polarization V

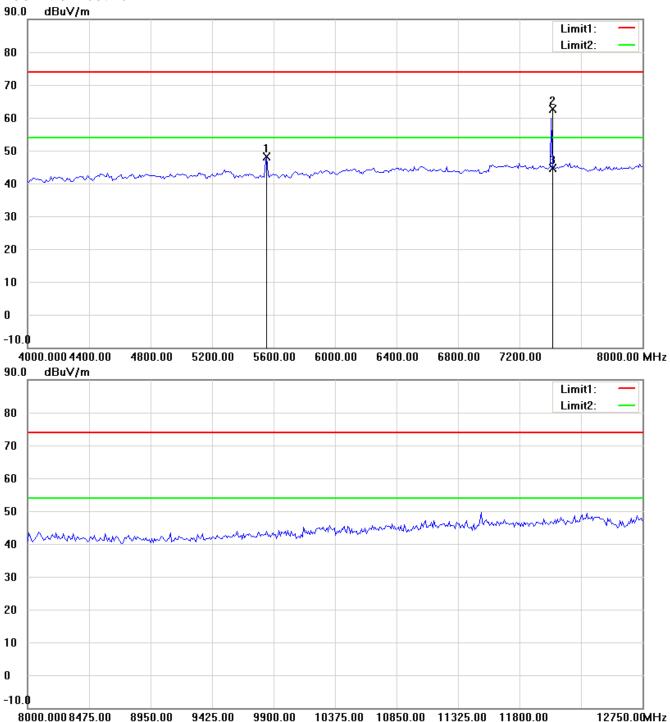


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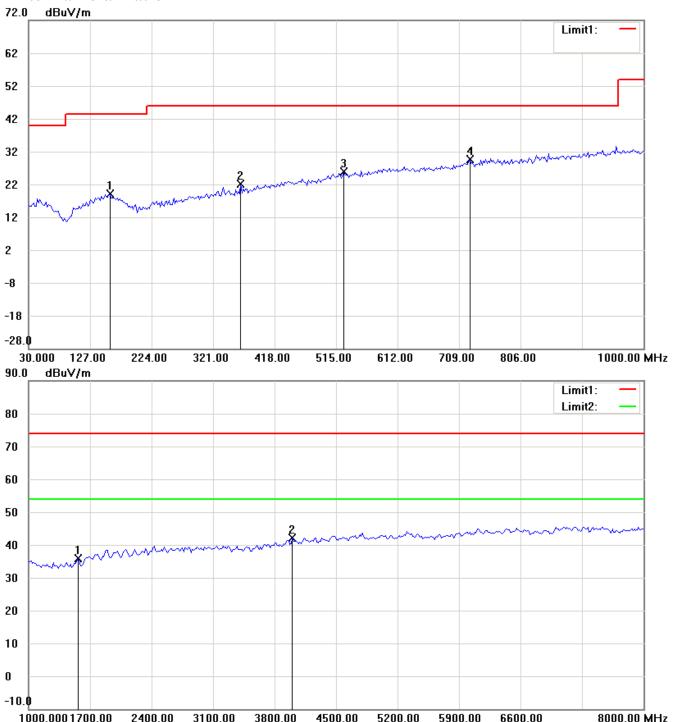
Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

Spurious Emissions radiated_Receiver

904.6MHz

Antenna Polarization H

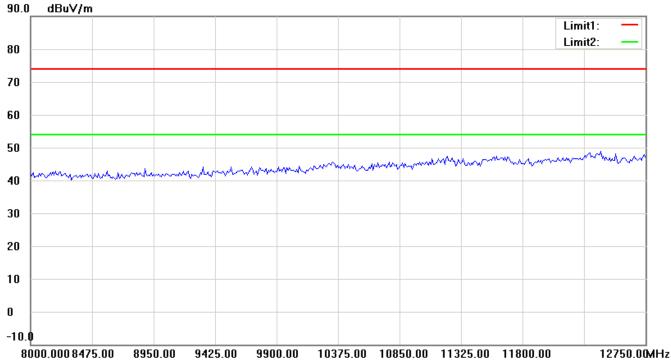


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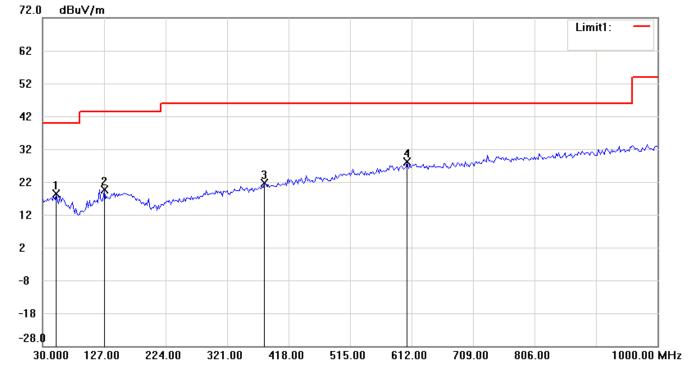


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Antenna Polarization V

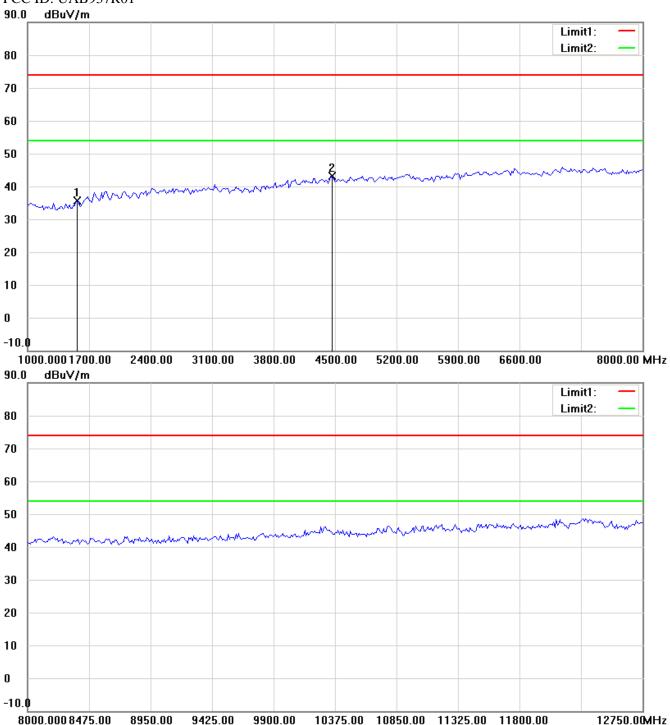


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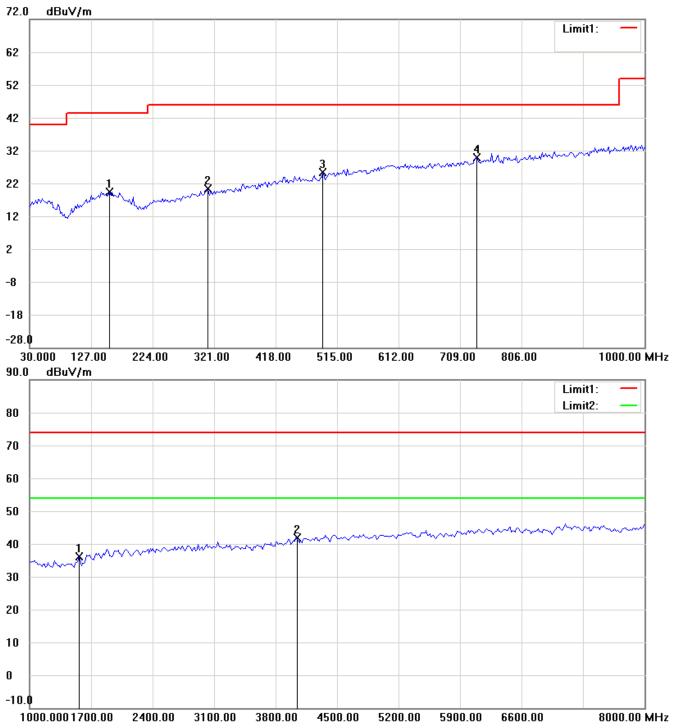


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

915MHz

Antenna Polarization H

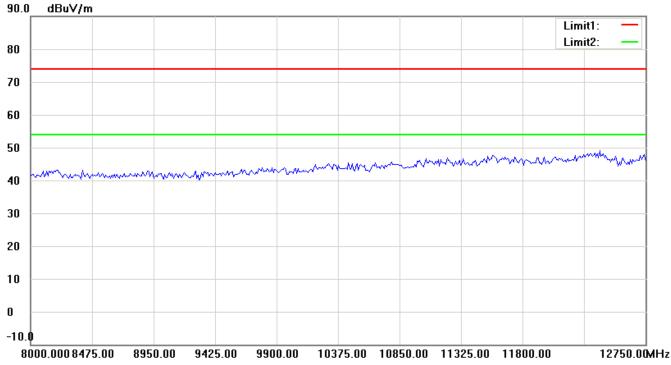


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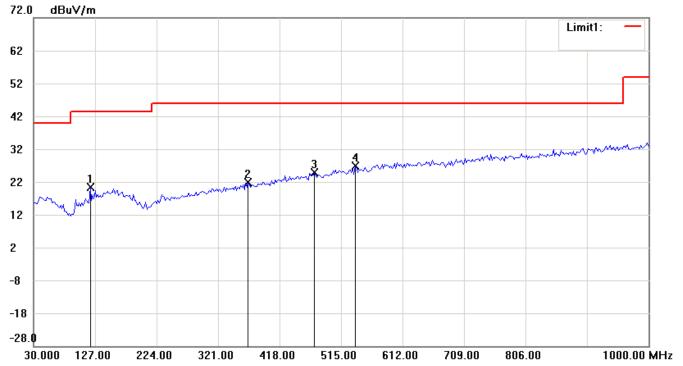


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Antenna Polarization V

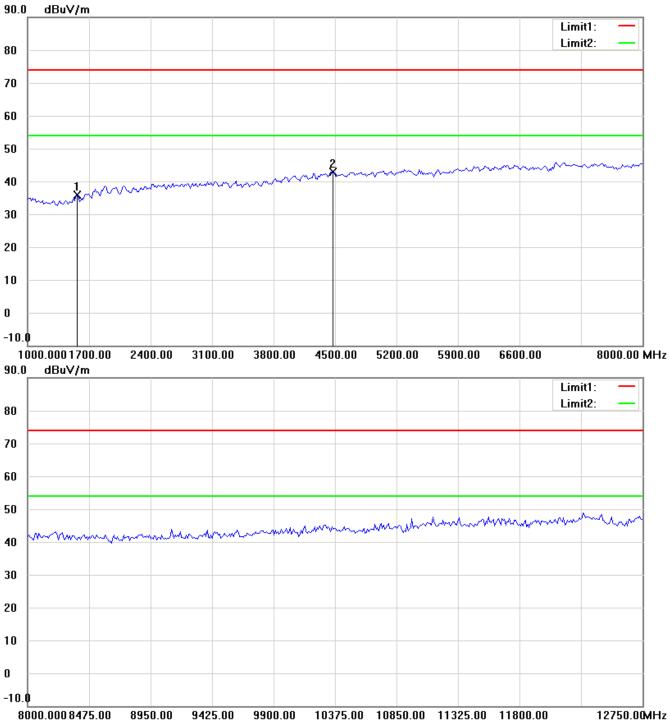


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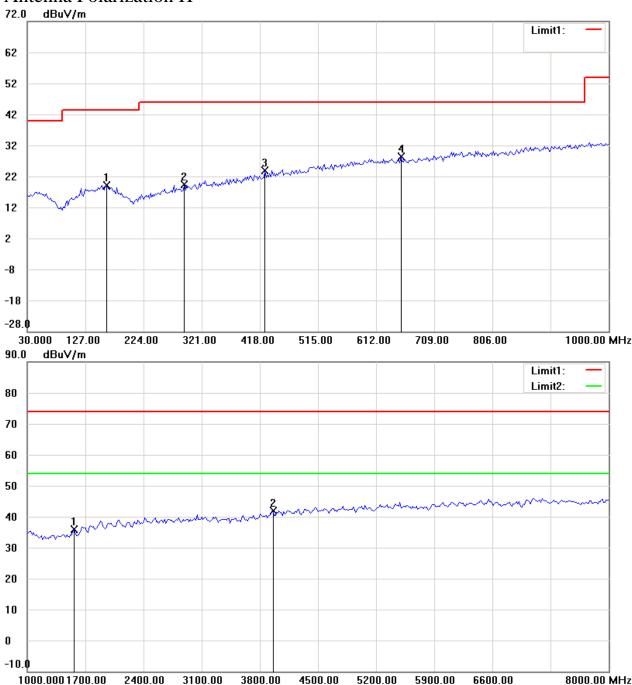


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01

925.4MHz

Antenna Polarization H

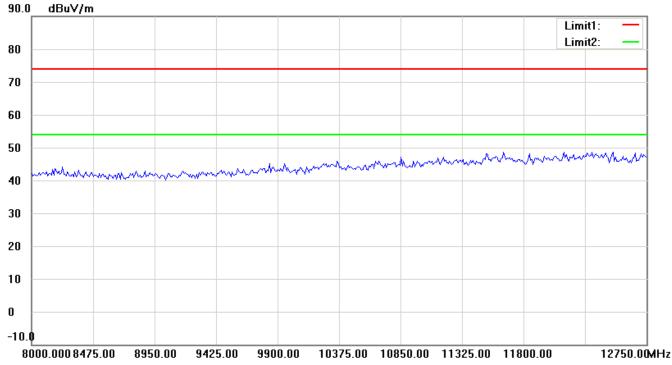


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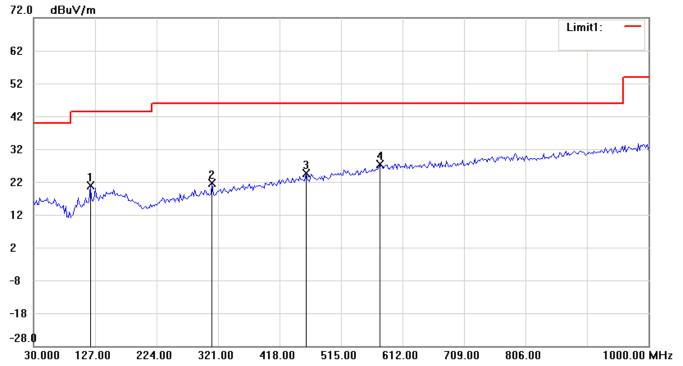


Registration number: W6M21403-14019-C-1

FCC ID: UAB937R01



Antenna Polarization V

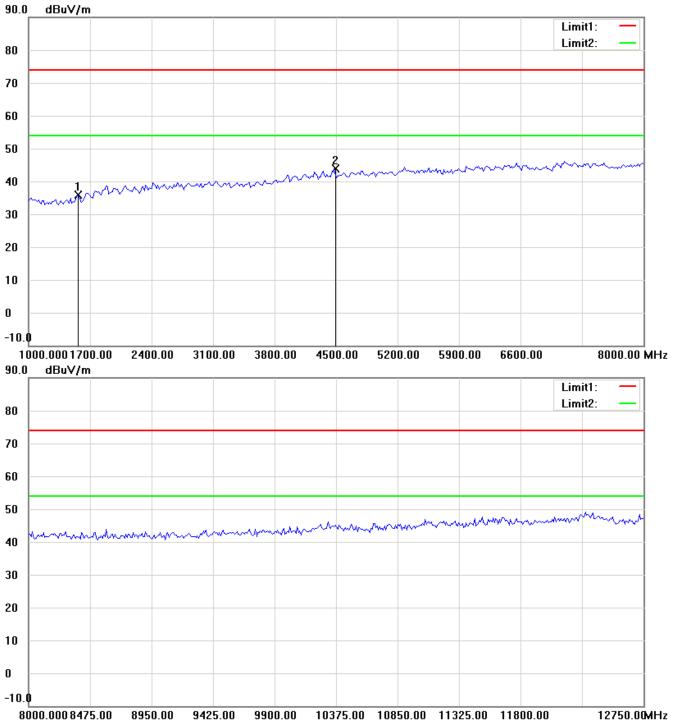


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