FCC PART 15 SUBPART C TEST REPORT

for

Wireless Towing lights

Model No.: PY-937

FCC ID: UAB937T01

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.: W6M21402-13965-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.
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Tester:

March 31, 2014		Leon Chueh	Leon Chueh
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

March 31, 2014		Kevin Wang	Kevin Wang
Date	WTS	Name	Signature

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

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:	./.

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

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:	February 26, 2014
Date of test:	From February 27, 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:	12 VDC

Manufacturer: (if different from applicant)

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

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:	12 VDC
Extreme conditions parameters:	Not required

2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2013/9/2	2014/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	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 Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function 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-test 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	Function Test	
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 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	Function 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	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	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-test 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 Use 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 ETS-03A1	

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 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 + 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 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.

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.

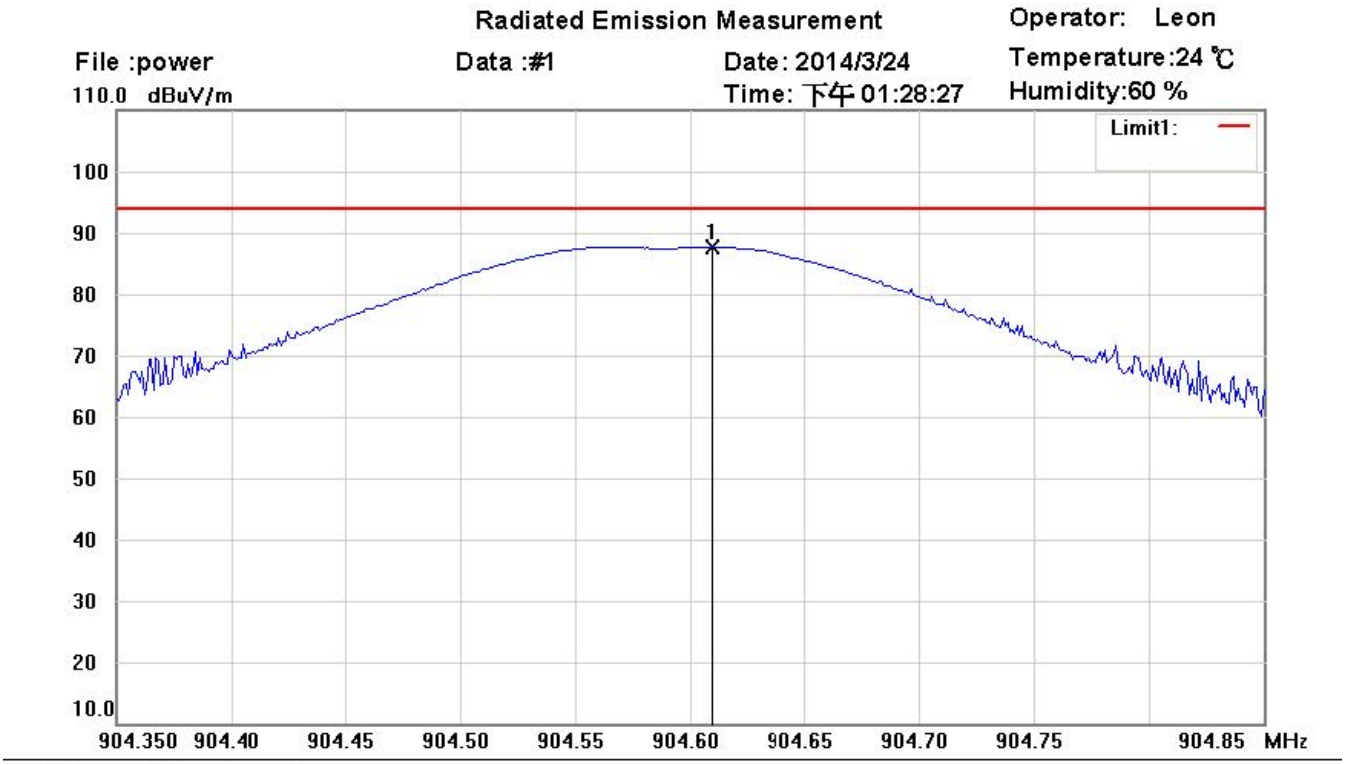
3.1 Peak Output Power (transmitter)

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

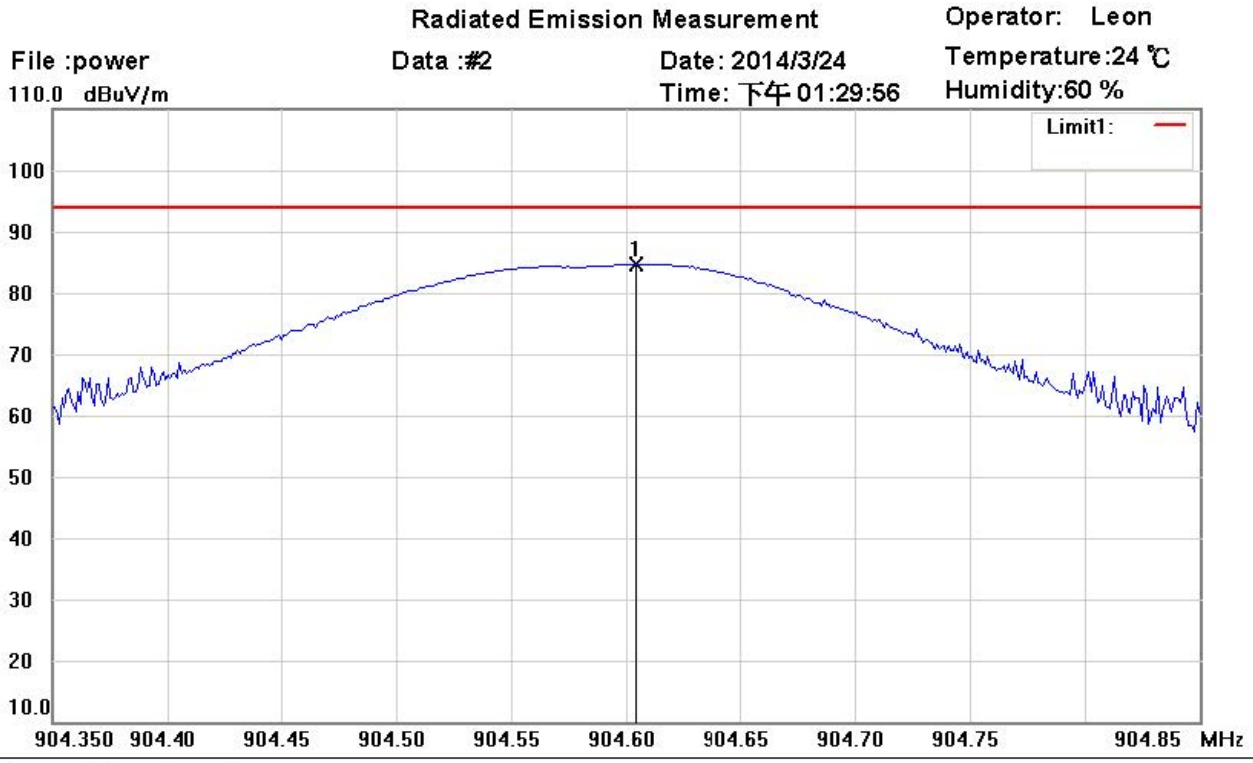


Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: Horizontal
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	904.6095	60.49	peak	27.22	87.71	94.00	100	150	-6.29	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01



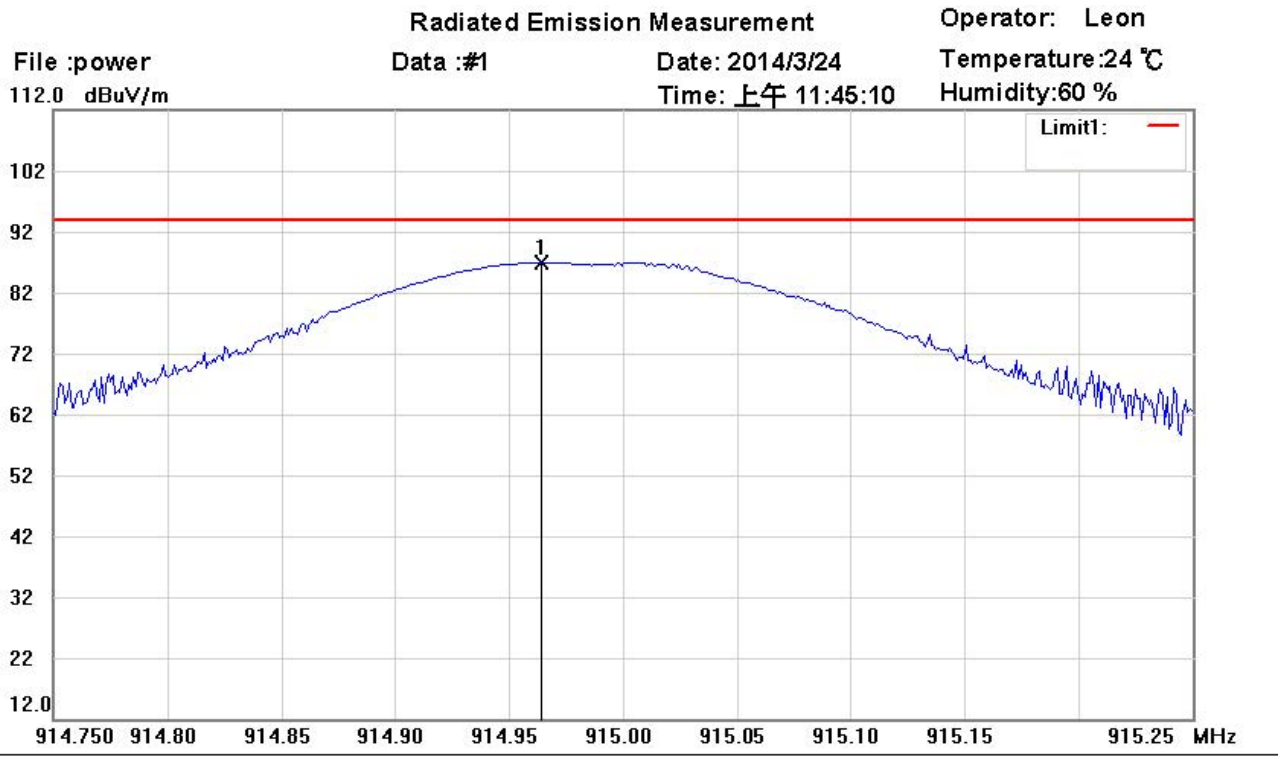
Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: *Vertical*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	904.6045	57.51	peak	27.22	84.73	94.00	100	85	-9.27	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

915 MHz

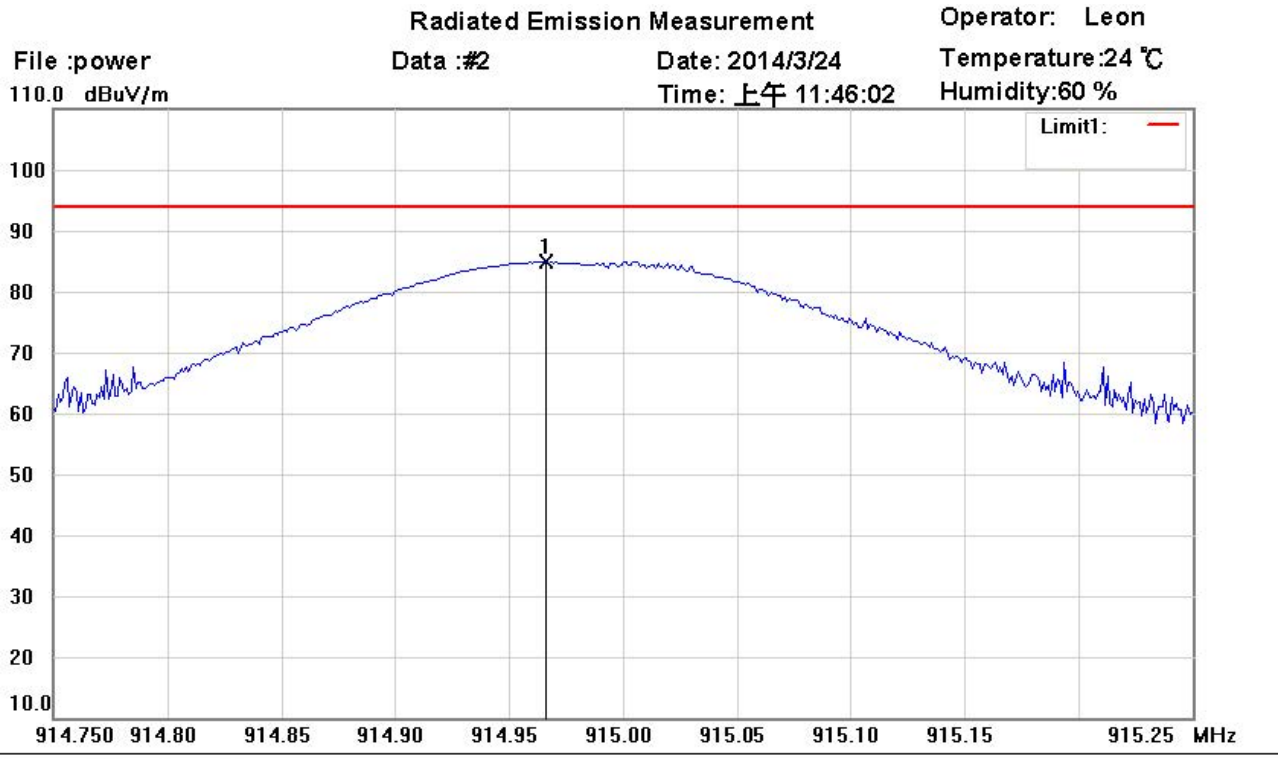


Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: *Horizontal*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	914.9644	59.54	peak	27.40	86.94	94.00	100	30	-7.06	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01



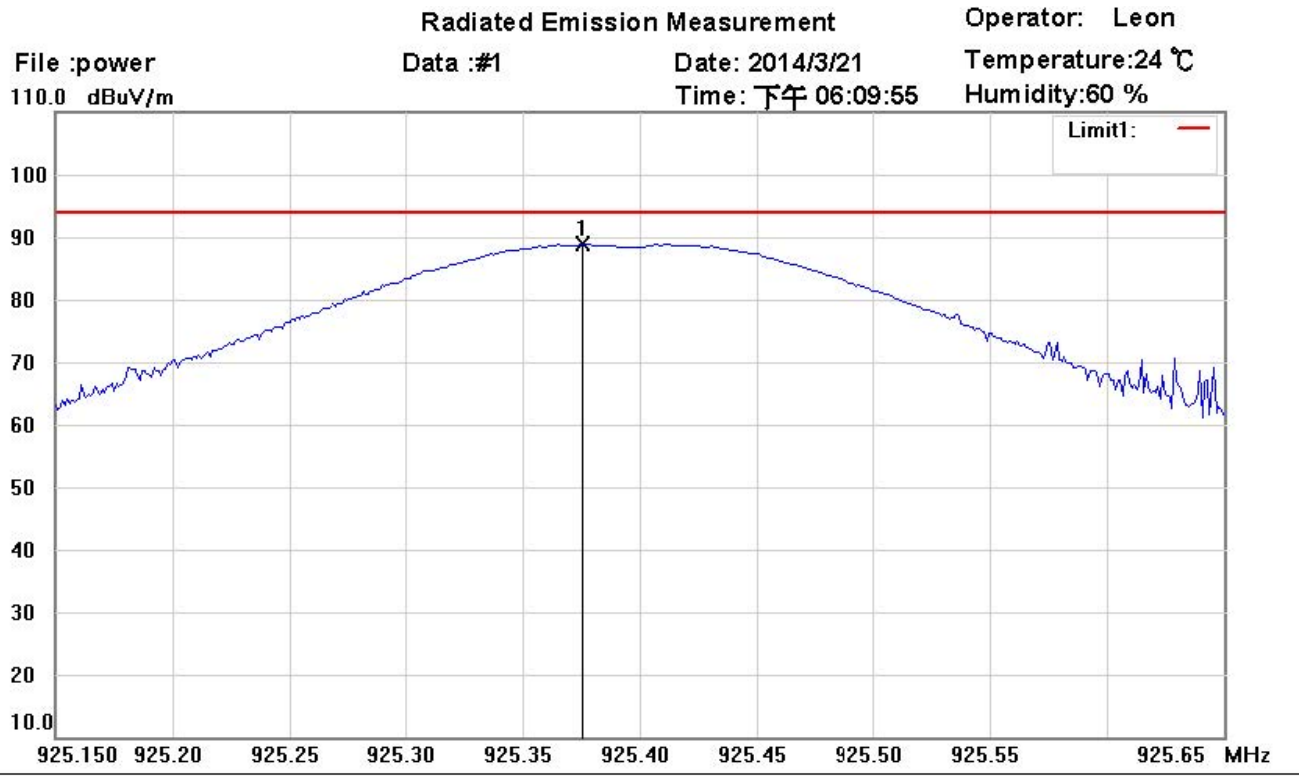
Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: *Vertical*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	914.9664	57.39	peak	27.40	84.79	94.00	100	85	-9.21	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

925.4 MHz

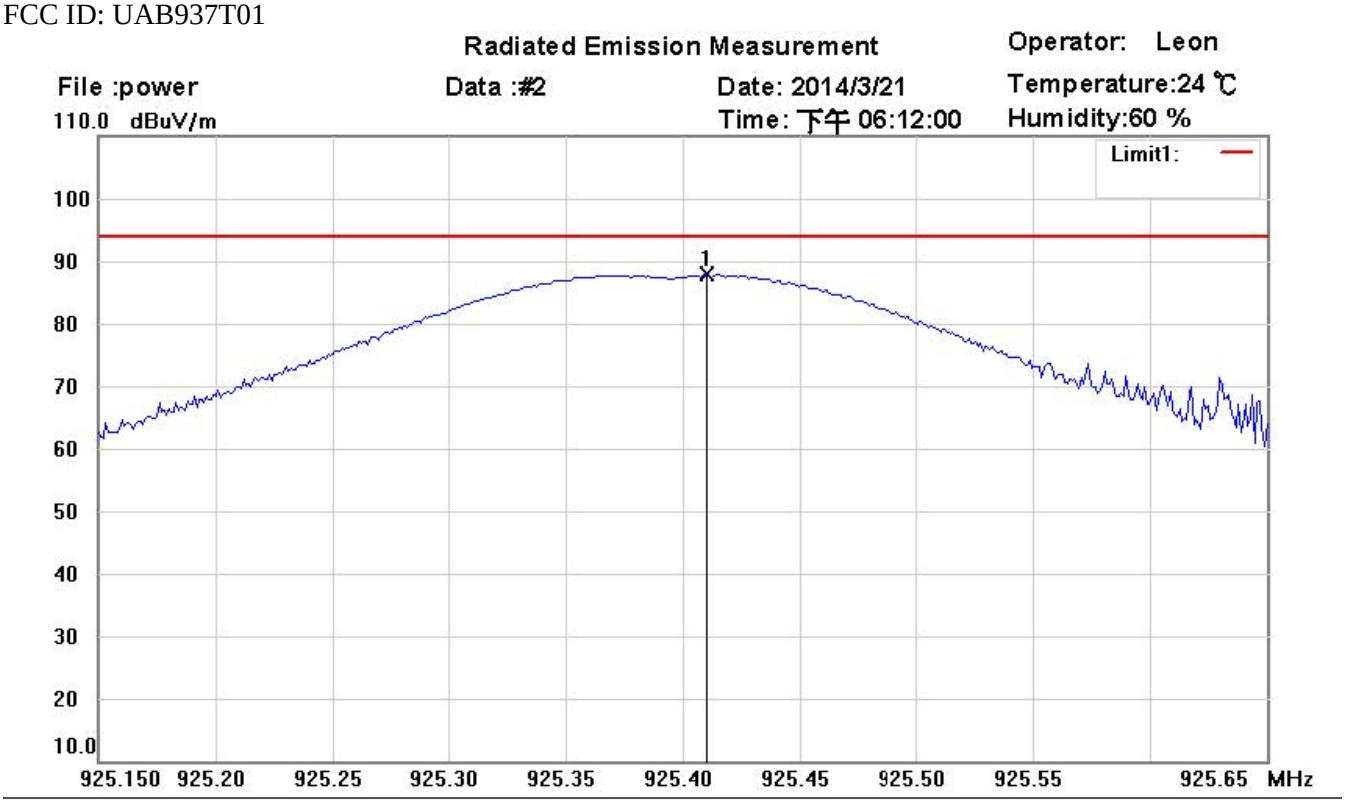


Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: *Horizontal*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	925.3755	61.27	peak	27.58	88.85	94.00	100	120	-5.15	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01



Site : Chamber_01
Condition : FCC 15.249 power(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : Power
Note :

Polarization: Vertical
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	925.4105	60.22	peak	27.58	87.80	94.00	100	60	-6.20	

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

Explanation:./.

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 (MHz)	Field strength (microvolts/meter)	Field Strength (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 dBµV/m + 20 dB= 74dBµV/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.

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: 2014/3/24
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	8.16	peak	14.05	22.21	40.00	-17.79	155	100
580.1201	4.58	peak	22.95	27.53	46.00	-18.47	130	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1294.5890	43.71	---	-9.16	34.55	---	74.00	54.00	-39.45	155	100
2430.8620	44.41	---	-4.57	39.84	---	74.00	54.00	-34.16	30	100
5426.8540	48.31	---	1.58	49.89	---	74.00	54.00	-24.11	55	100
7238.4770	56.82	43.11	3.76	60.58	46.87	74.00	54.00	-7.13	170	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
43.6072	7.57	peak	14.05	21.62	40.00	-18.38	115	100
331.3026	4.70	peak	16.80	21.50	46.00	-24.50	170	100

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1030.0600	43.16	---	-7.76	35.40	---	74.00	54.00	-38.60	115	100
2436.8740	44.09	---	-4.55	39.54	---	74.00	54.00	-34.46	140	100
5426.8540	46.88	---	1.58	48.46	---	74.00	54.00	-25.54	70	100
7238.4770	53.99	42.35	3.76	57.75	46.11	74.00	54.00	-7.89	175	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)
504.3086	4.46	peak	21.00	25.46	46.00	-20.54	160	100
690.9218	4.18	peak	24.29	28.47	46.00	-17.53	155	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1030.0600	42.77	---	-7.76	35.01	---	74.00	54.00	-38.99	55	100
1306.6130	43.80	---	-9.15	34.65	---	74.00	54.00	-39.35	170	100
5458.9180	48.77	---	1.64	50.41	---	74.00	54.00	-23.59	235	100
7278.2880	61.99	42.97	3.65	65.64	46.62	74.00	54.00	-7.38	180	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
333.2465	3.79	peak	16.85	20.64	46.00	-25.36	125	100
436.2724	4.23	peak	19.84	24.07	46.00	-21.93	70	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1030.0600	42.87	---	-7.76	35.11	---	74.00	54.00	-38.89	60	100
1300.6010	43.57	---	-9.14	34.43	---	74.00	54.00	-39.57	170	100
5458.9180	48.24	---	1.64	49.88	---	74.00	54.00	-24.12	130	100
7278.4070	56.30	41.98	3.65	59.95	45.63	74.00	54.00	-8.37	185	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)
148.5772	3.97	peak	15.25	19.22	43.50	-24.28	60	100
311.8636	5.46	peak	16.29	21.75	46.00	-24.25	115	100

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1847.6950	48.06	---	-6.53	41.53	---	74.00	54.00	-32.47	155	100
2776.2000	42.65	---	-3.81	38.84	---	74.00	54.00	-35.16	90	100
5547.0940	48.75	---	1.62	50.37	---	74.00	54.00	-23.63	160	100
7403.1930	64.25	43.54	3.89	68.14	47.43	74.00	54.00	-6.57	180	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
152.4650	4.84	peak	15.33	20.17	43.50	-23.33	140	100
521.8035	4.67	peak	21.36	26.03	46.00	-19.97	160	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1847.6950	46.77	---	-6.53	40.24	---	74.00	54.00	-33.76	85	100
2776.2000	42.06	---	-3.81	38.25	---	74.00	54.00	-35.75	165	100
5555.1100	47.12	---	1.61	48.73	---	74.00	54.00	-25.27	175	100
7403.1630	59.57	42.05	3.89	63.46	45.94	74.00	54.00	-8.06	150	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. **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

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:	PY-937	Date:	2014/3/24				
Mode:	RX 904.6MHz	Temperature:	24	°C	Engineer:	Leon	
Polarization:	Horizontal	Humidity:	Humidity:	60	%		

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
364.3487	5.67	peak	17.59	23.26	46.00	-22.74	175	100
432.3848	3.63	peak	19.70	23.33	46.00	-22.67	130	100
500.4208	4.18	peak	20.92	25.10	46.00	-20.90	150	100
650.1002	4.48	peak	23.59	28.07	46.00	-17.93	110	100

Frequency	Reading (dBuV)		Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1561.1220	44.12	---	-8.61	35.51	---	74.00	54.00	-38.49	155	100
4142.2850	43.51	---	-0.95	42.56	---	74.00	54.00	-31.44	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)
30.0000	7.96	peak	13.20	21.16	40.00	-18.84	70	100
150.5210	4.60	peak	15.31	19.91	43.50	-23.59	155	100
304.0882	4.00	peak	16.09	20.09	46.00	-25.91	135	100
630.6613	5.10	peak	23.44	28.54	46.00	-17.46	190	100

Frequency	Reading (dBuV)		Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave	(dB)	(Deg.)	(cm)
1561.1220	44.13	---	-8.61	35.52	---	74.00	54.00	-38.48	175	100
4478.9580	43.17	---	-0.18	42.99	---	74.00	54.00	-31.01	210	100

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

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)
43.6072	3.53	peak	14.05	17.58	40.00	-22.42	90	100
168.0160	4.50	peak	14.91	19.41	43.50	-24.09	55	100
471.2625	3.97	peak	20.30	24.27	46.00	-21.73	130	100
564.5691	4.70	peak	22.30	27.00	46.00	-19.00	140	100

Frequency	Reading (dBuV)		Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1561.1220	45.10	---	-8.61	36.49	---	74.00	54.00	-37.51	130	100
4464.9300	43.36	---	-0.31	43.05	---	74.00	54.00	-30.95	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)
43.6071	7.01	peak	14.05	21.06	40.00	-18.94	75	100
103.8676	5.65	peak	11.49	17.14	43.50	-26.36	130	100
162.1844	4.56	peak	15.27	19.83	43.50	-23.67	60	100
661.7635	5.84	peak	23.79	29.63	46.00	-16.37	90	100

Frequency	Reading (dBuV)		Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave	(dB)	(Deg.)	(cm)
1547.0940	44.68	---	-8.71	35.97	---	74.00	54.00	-38.03	155	100
4464.9300	43.37	---	-0.31	43.06	---	74.00	54.00	-30.94	160	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)
43.6071	3.86	peak	14.05	17.91	40.00	-22.09	85	100
311.8636	4.52	peak	16.29	20.81	46.00	-25.19	120	100
416.8337	4.43	peak	19.16	23.59	46.00	-22.41	50	100
593.7273	4.36	peak	23.12	27.48	46.00	-18.52	130	100

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV/m) Peak	Result (dBuV/m) Ave.	Limit (dBuV/m) Peak	Limit (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
5503.0060	44.30	---	1.70	46.00	---	74.00	54.00	-28.00	155	100
6484.9700	42.76	---	3.63	46.39	---	74.00	54.00	-27.61	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)
30.0000	6.30	peak	13.20	19.50	40.00	-20.50	105	100
103.8675	5.80	peak	11.49	17.29	43.50	-26.21	160	100
368.2364	3.81	peak	17.73	21.54	46.00	-24.46	45	100
504.3086	4.60	peak	21.00	25.60	46.00	-20.40	90	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV/m) Peak	Result (dBuV/m) Ave.	Limit (dBuV/m) Peak	Limit (dBuV/m) Ave	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1575.1500	44.89	---	-8.51	36.38	---	74.00	54.00	-37.62	70	100
5559.1180	47.43	---	1.60	49.03	---	74.00	54.00	-24.97	155	100

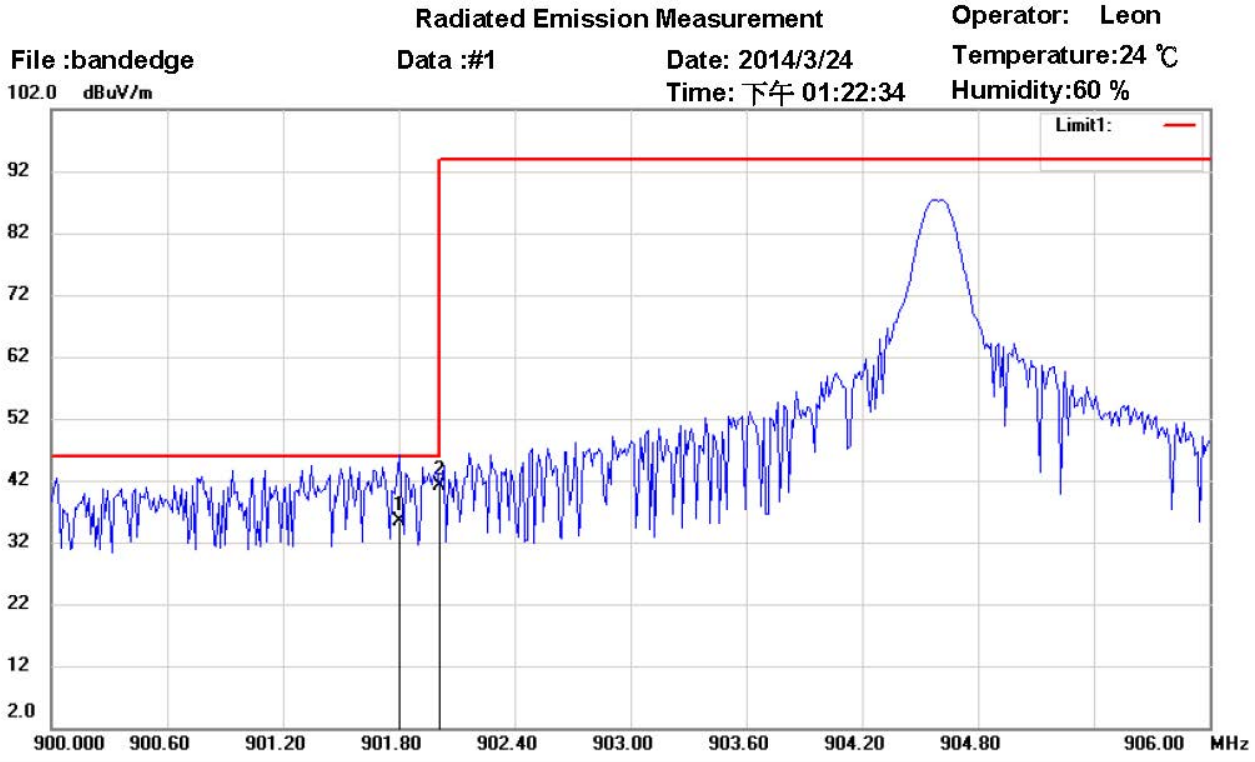
Note

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.**

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

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).

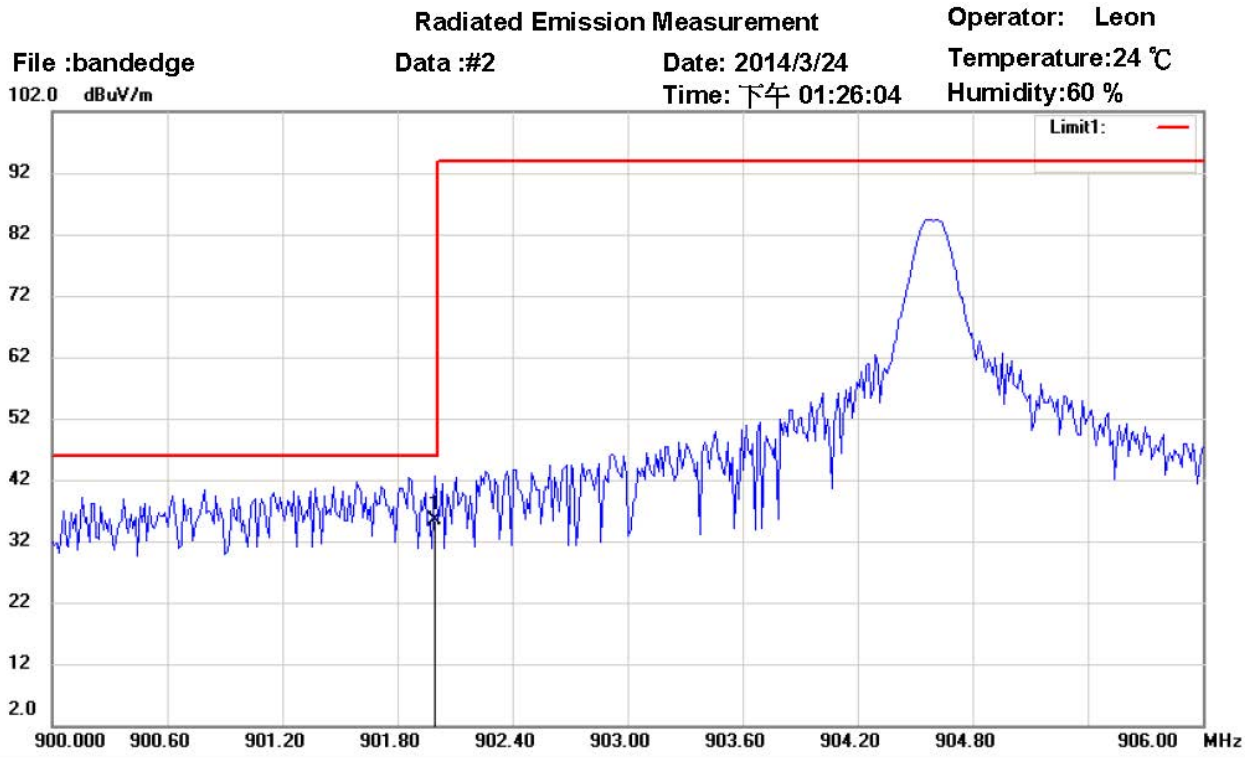


Site : Chamber
Condition : FCC 15.249 Bandedge(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : 904.6MHz
Note :

Polarization: *Horizontal*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	901.8036	8.17	QP	27.17	35.34	46.00	100	150	-10.66	
*	902.0000	13.96	peak	27.17	41.13	46.00	100	30	-4.87	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

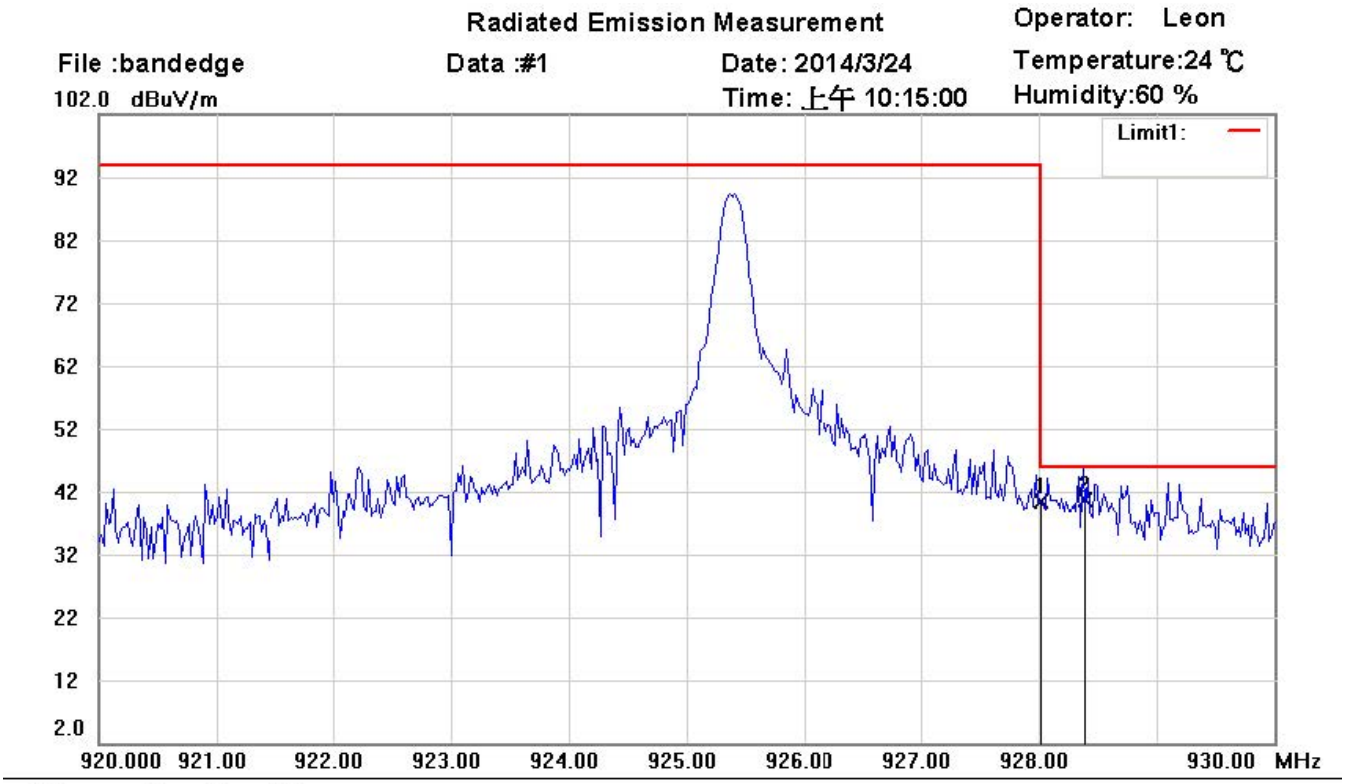


Site : Chamber
Condition : FCC 15.249 Bandedge(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : 904.6MHz
Note :

Polarization: *Vertical*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	901.9960	8.26	QP	27.17	35.43	46.00	100	150	-10.57	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

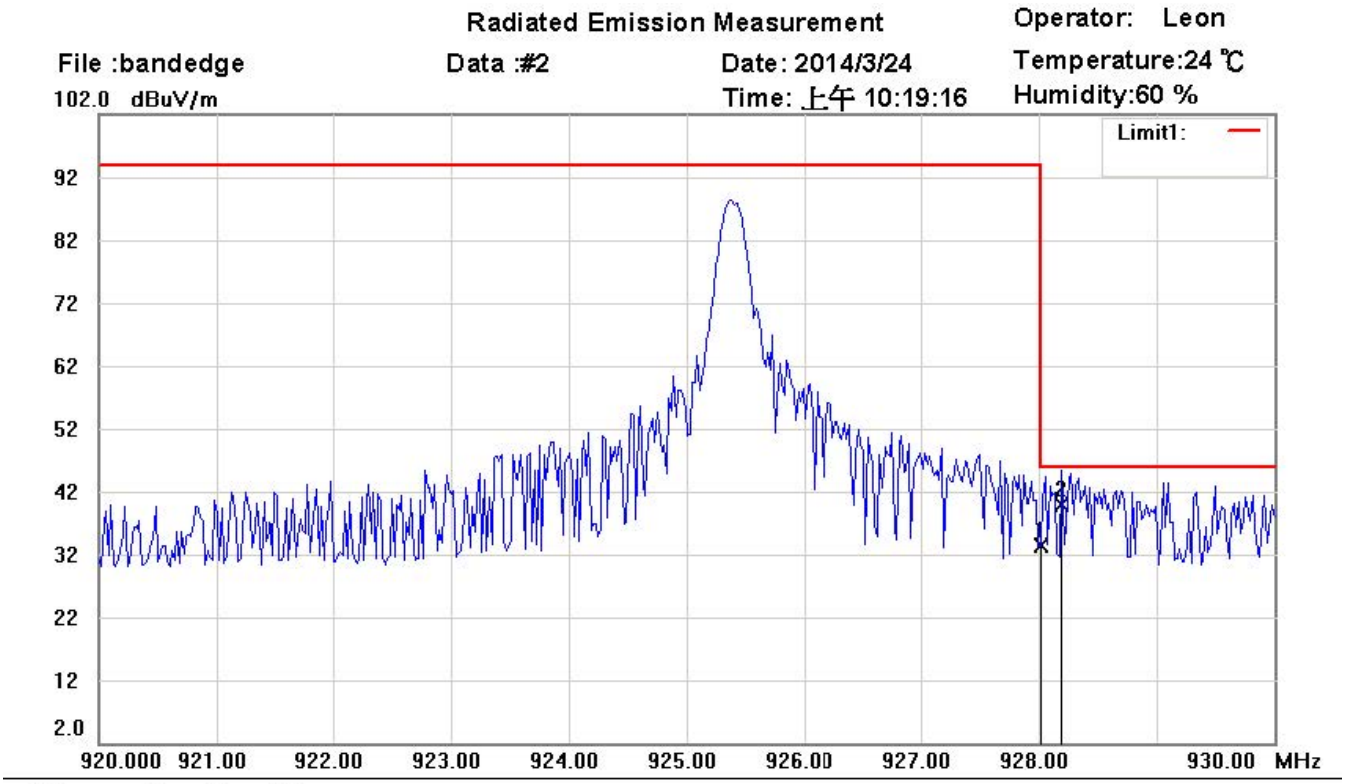


Site : Chamber_01
Condition : FCC 15.249 Bandedge(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : 925.4MHz
Note :

Polarization: *Horizontal*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	928.0000	12.87	peak	27.62	40.49	46.00	100	170	-5.51	
*	928.3810	12.96	QP	27.63	40.59	46.00	100	120	-5.41	

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01



Site : Chamber_01
Condition : FCC 15.249 Bandedge(902-928)_QP
EUT : W6M21402-13965
M/N: PY-937
Test Mode : 925.4MHz
Note :

Polarization: *Vertical*
Power : 12 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	928.0000	5.88	peak	27.62	33.50	46.00	100	140	-12.50	
*	928.1964	12.37	QP	27.62	39.99	46.00	100	70	-6.01	

Limit:

Frequency Range (MHz)	Limit (dBμV/m)	
	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: ./.

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: Temperature: -- °C Engineer: --
Polarization: N Humidity: -- %

Frequency (MHz)	Reading (dBuV) QP	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV) QP	Result (dBuV) Ave.	Limit (dBuV) QP	Limit (dBuV) Ave.	Margin (dB)	Position (cm)	Note
--	--	--	--	--	--	--	--	--	--	--

Polarization: L1

Frequency (MHz)	Reading (dBuV) QP	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV) QP	Result (dBuV) Ave.	Limit (dBuV) QP	Limit (dBuV) Ave.	Margin (dB)	Position (cm)	Note
--	--	--	--	--	--	--	--	--	--	--

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

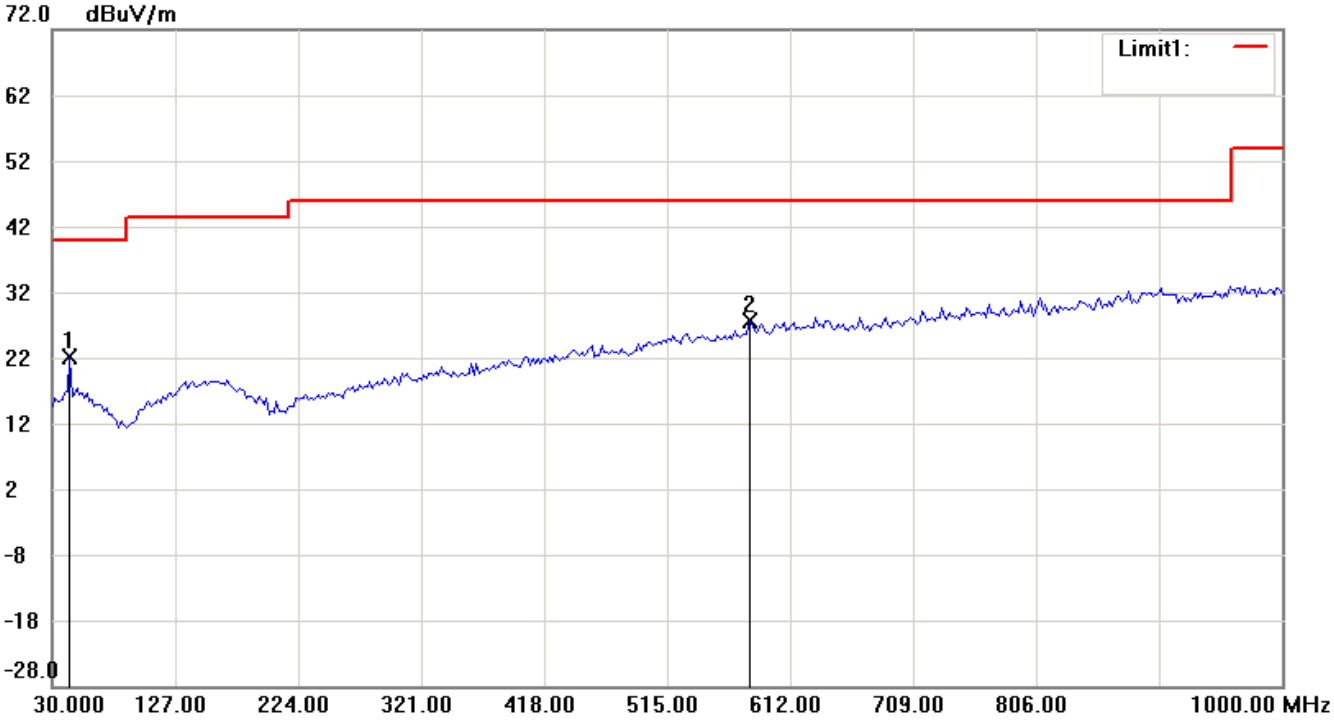
Appendix

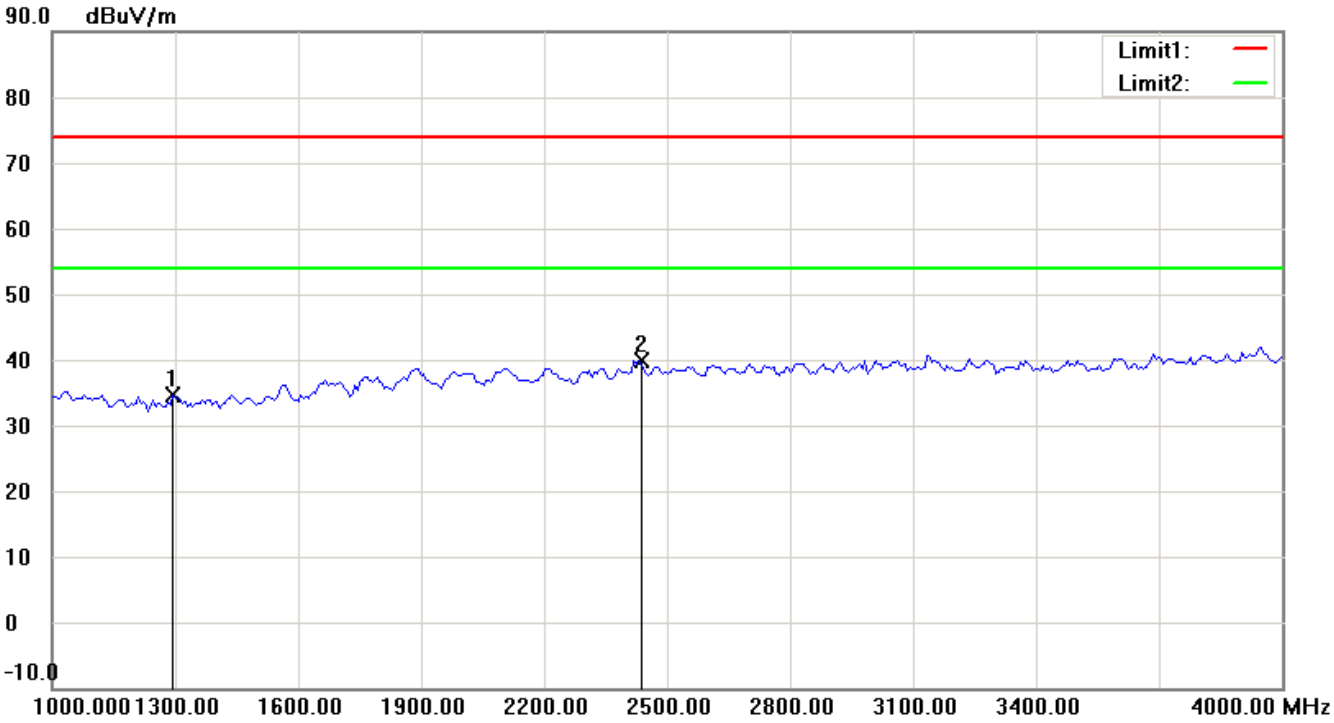
Measurement diagrams

Spurious Emissions radiated

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Spurious Emissions radiated_Transmitter
904.6MHz
Antenna Polarization H

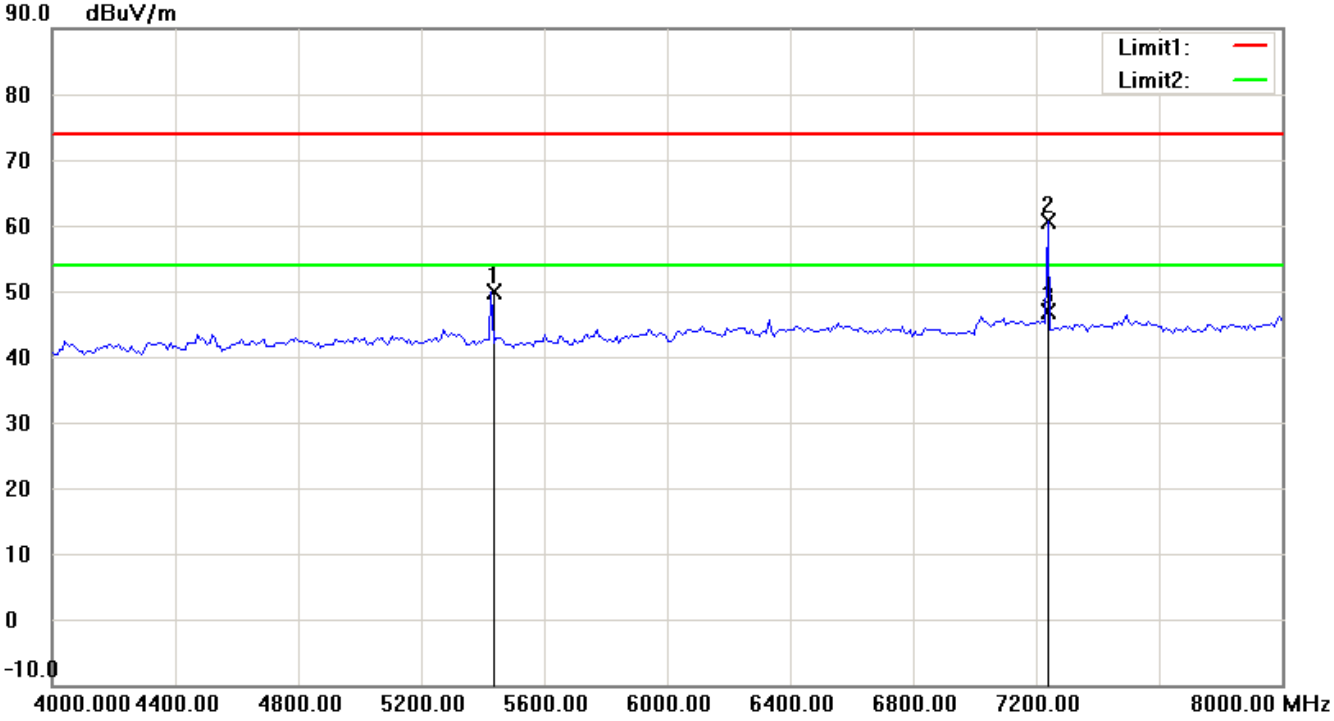


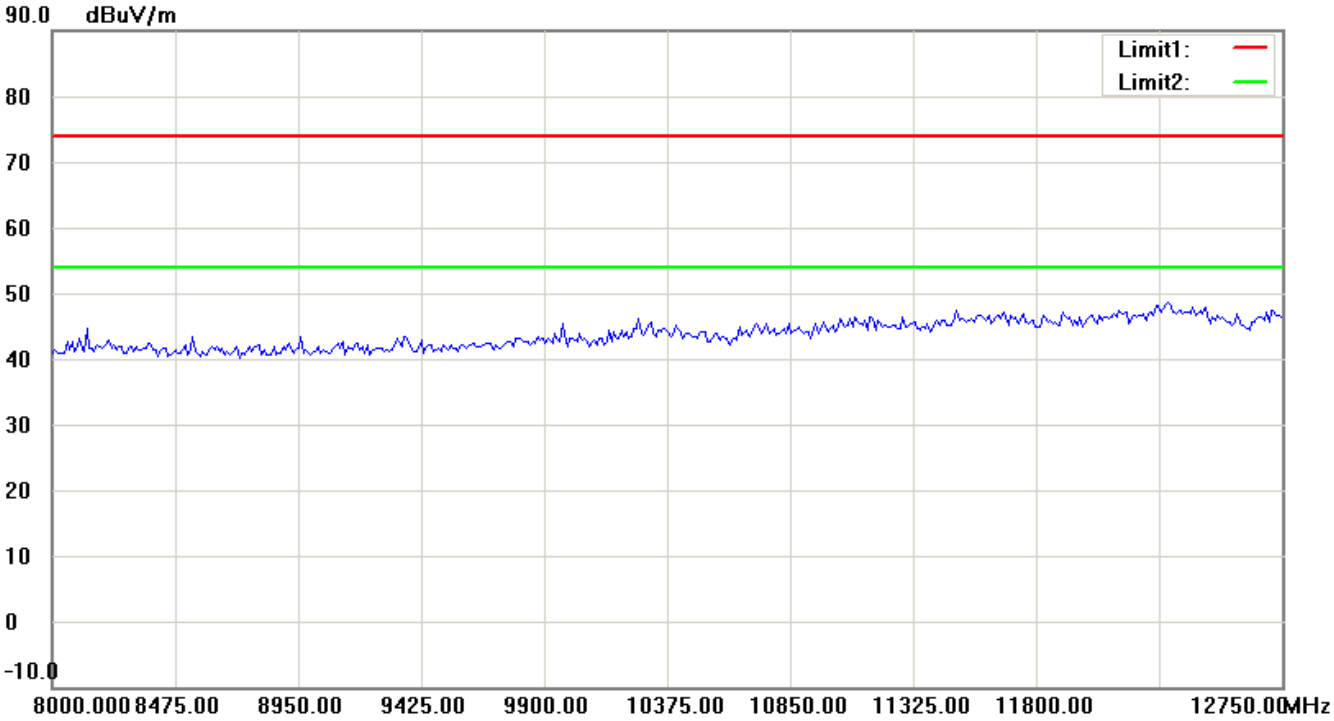


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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.**

Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01





Up Line: Peak Limit Line Down Line: Ave Limit Line
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.**

Registration number: W6M21402-13965-C-1
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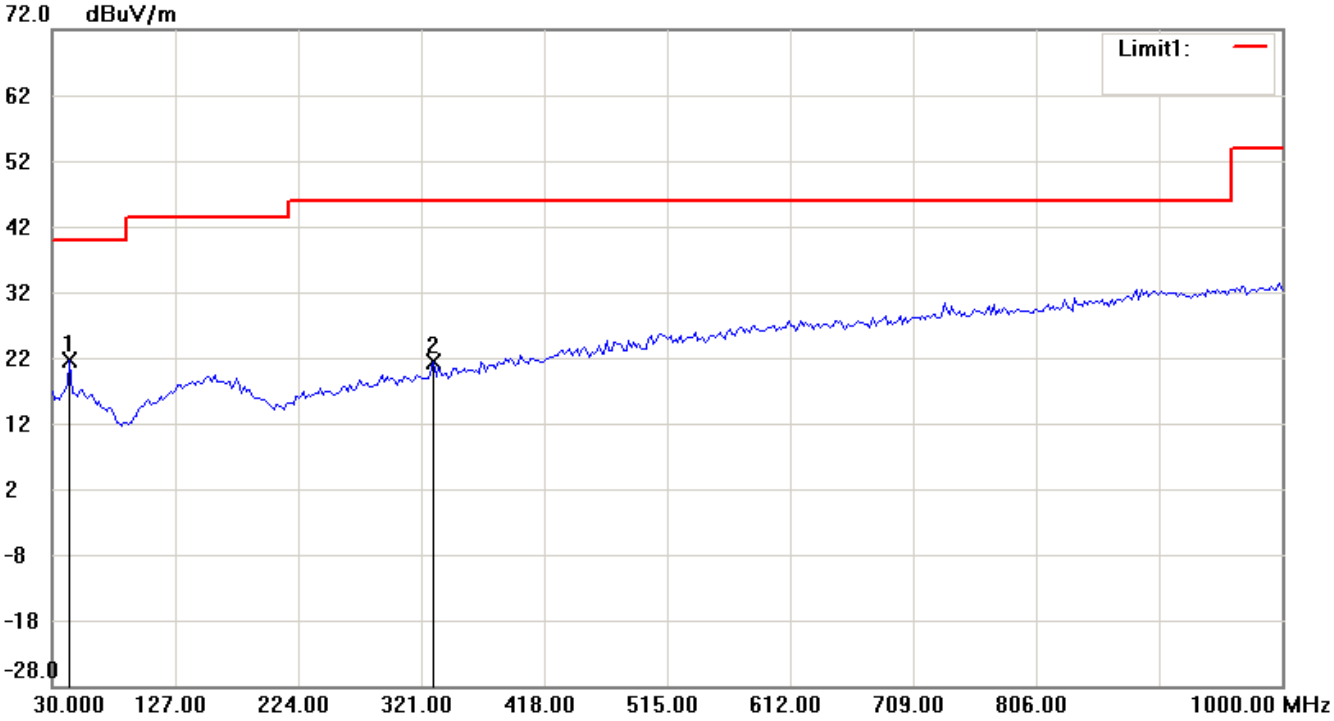
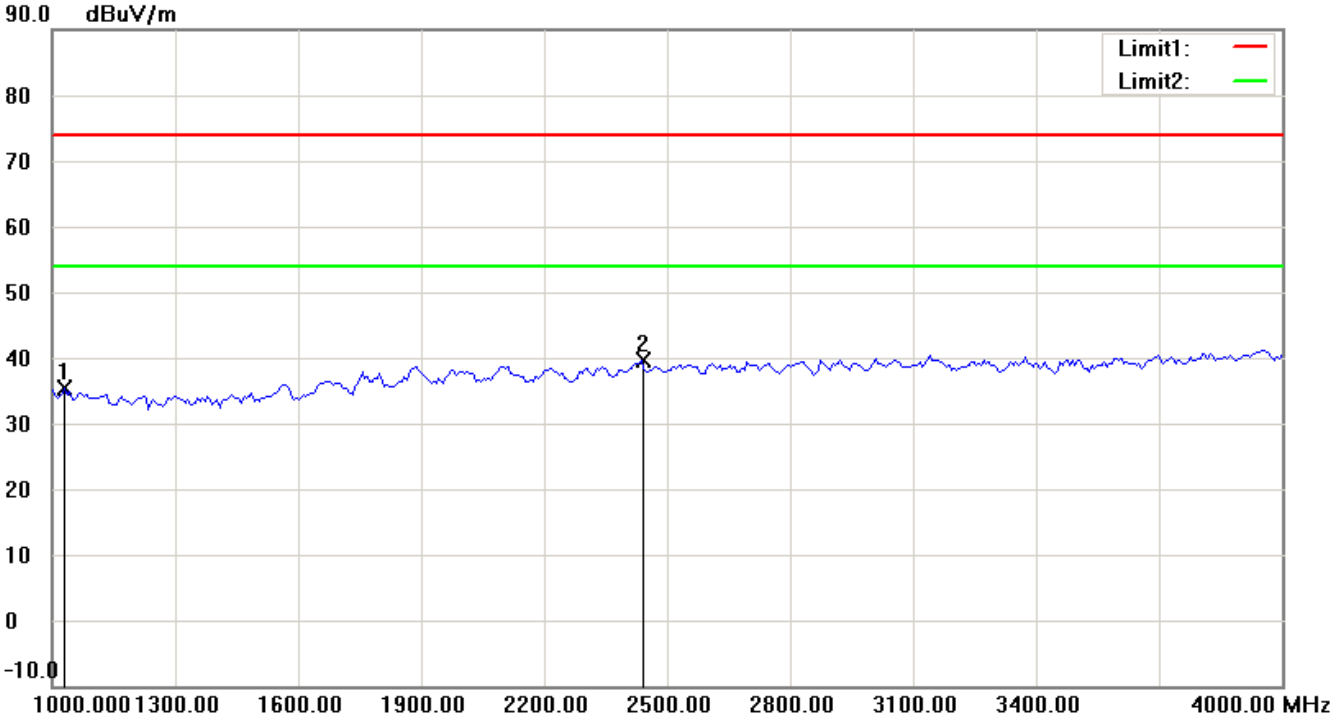
Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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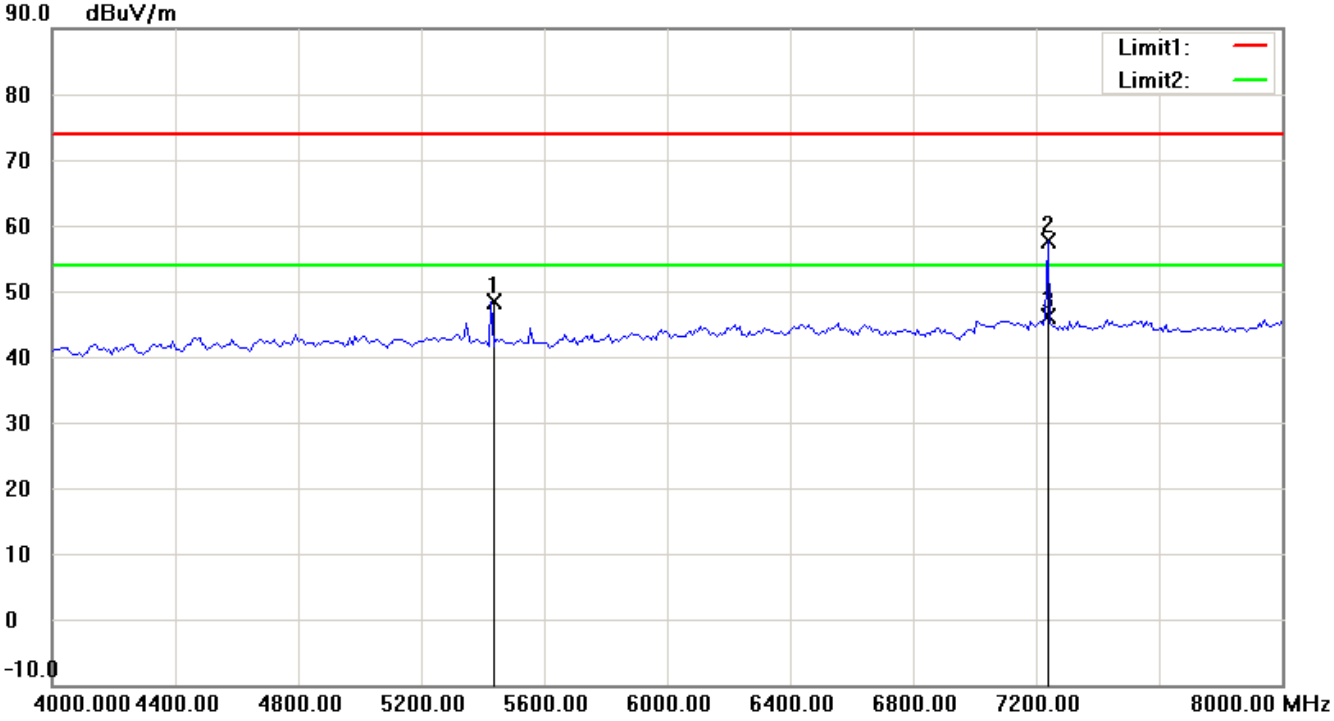
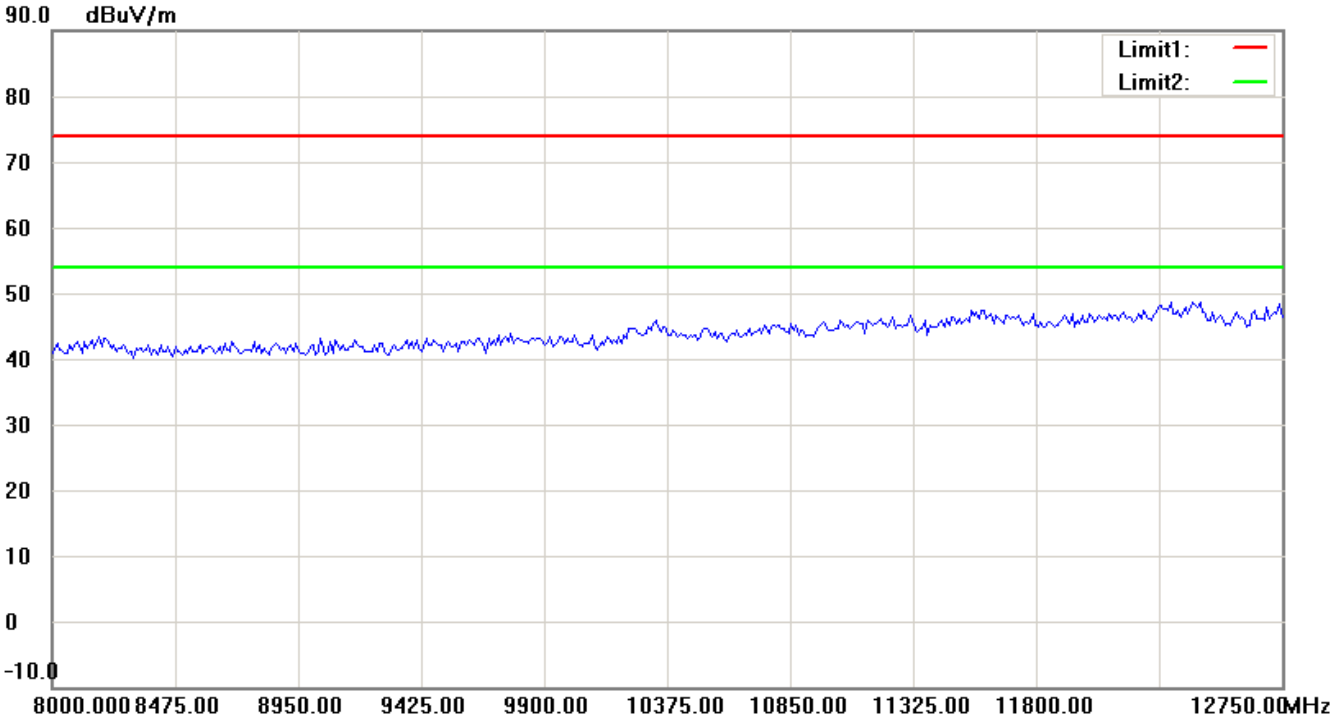
Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01





Up Line: Peak Limit Line Down Line: Ave Limit Line
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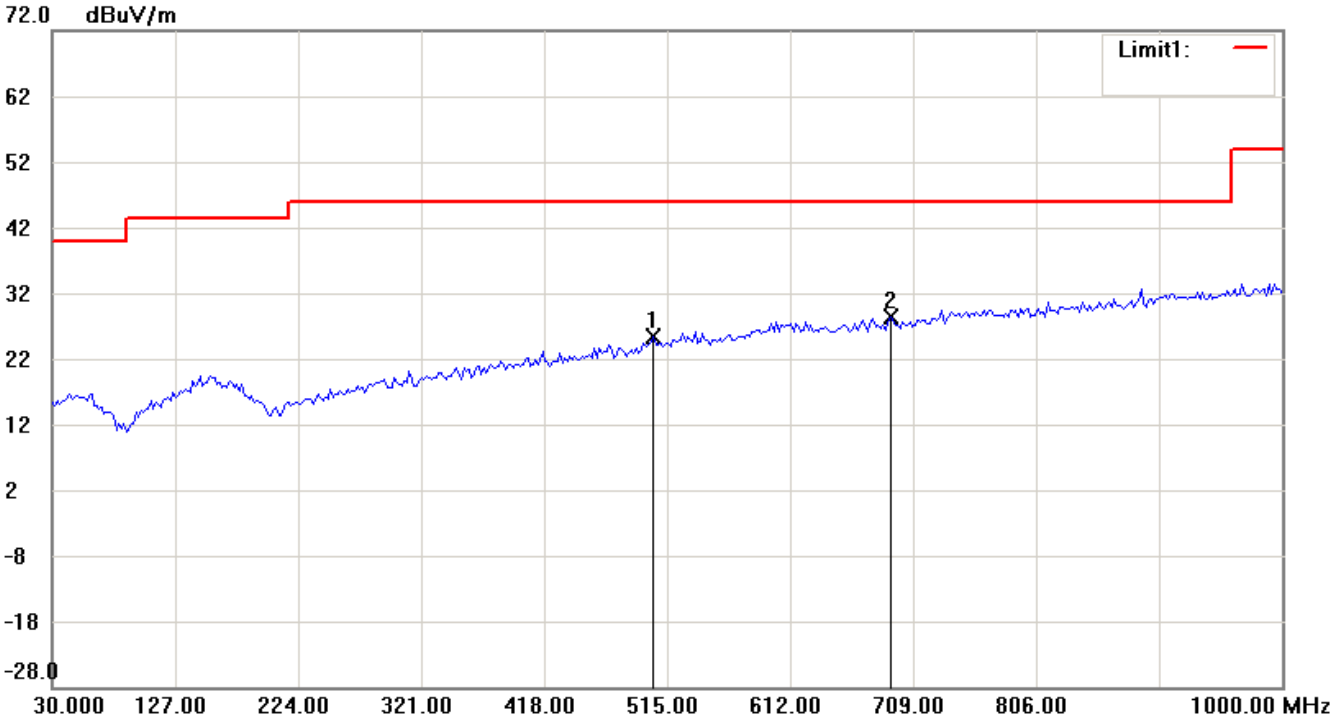
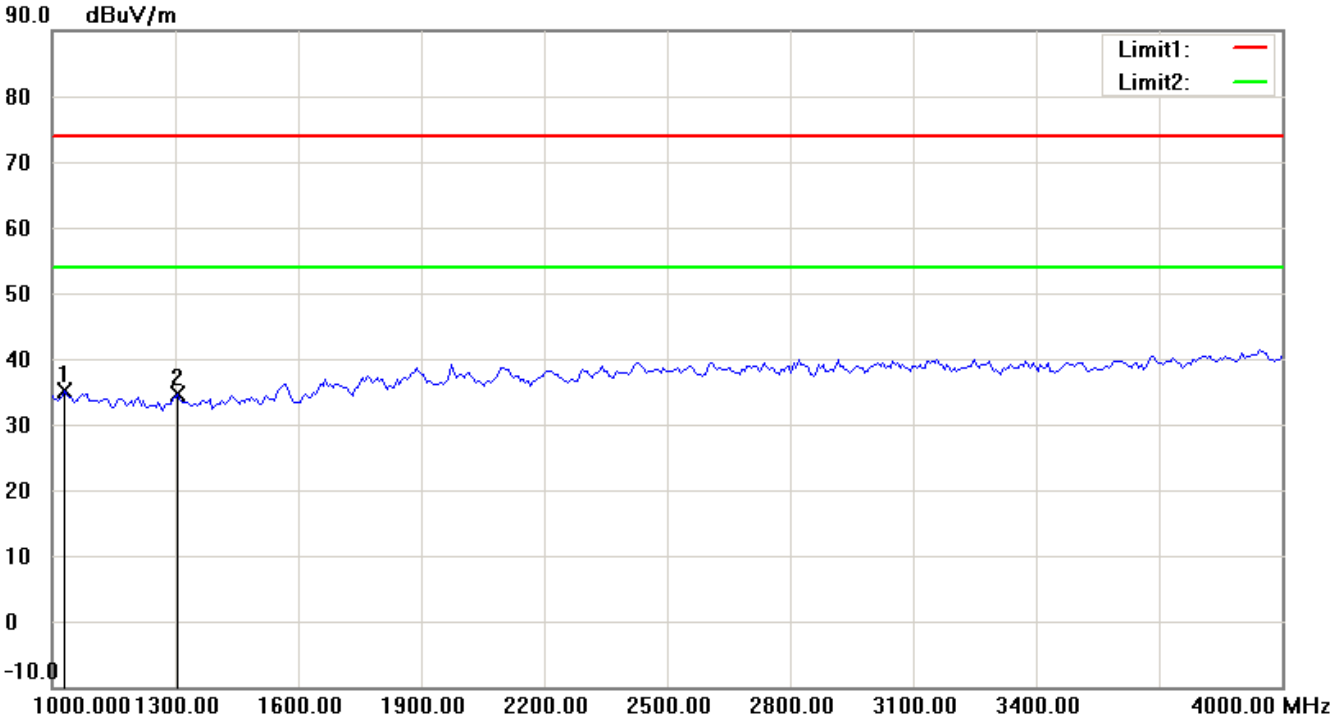
FCC ID: UAB937T01

915MHz

Antenna Polarization





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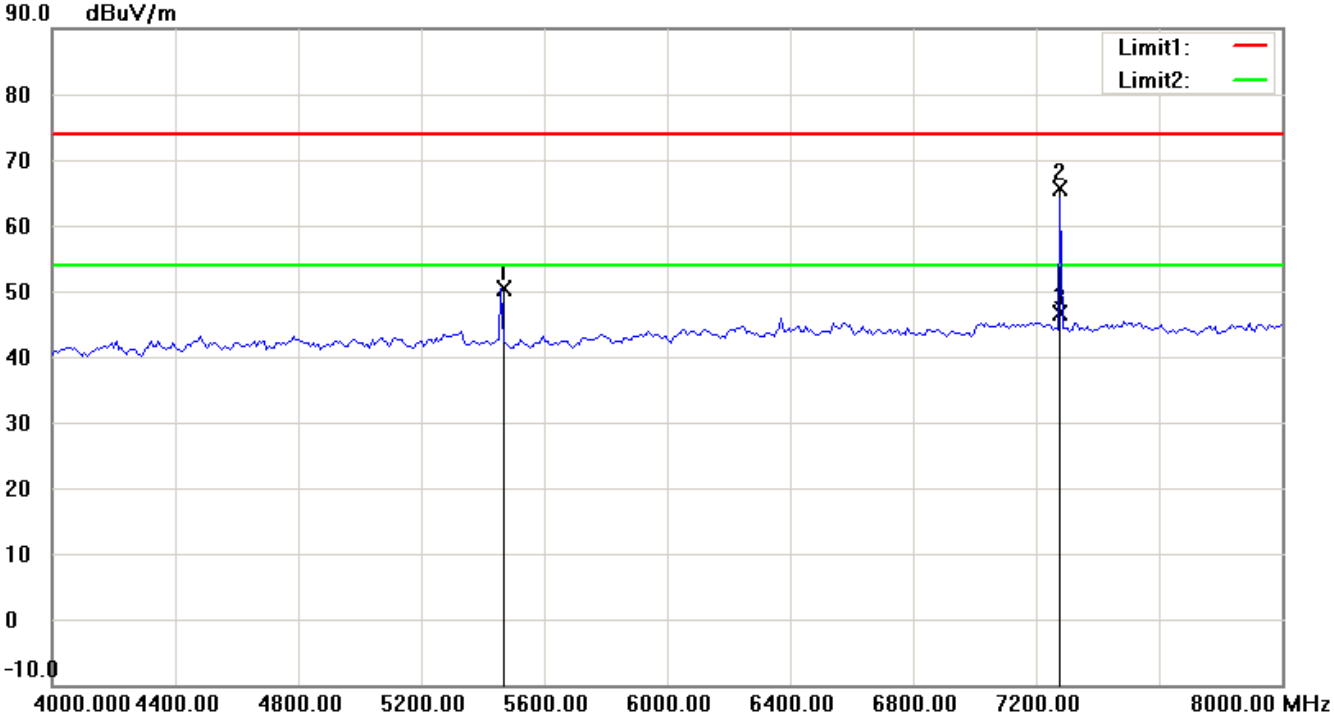

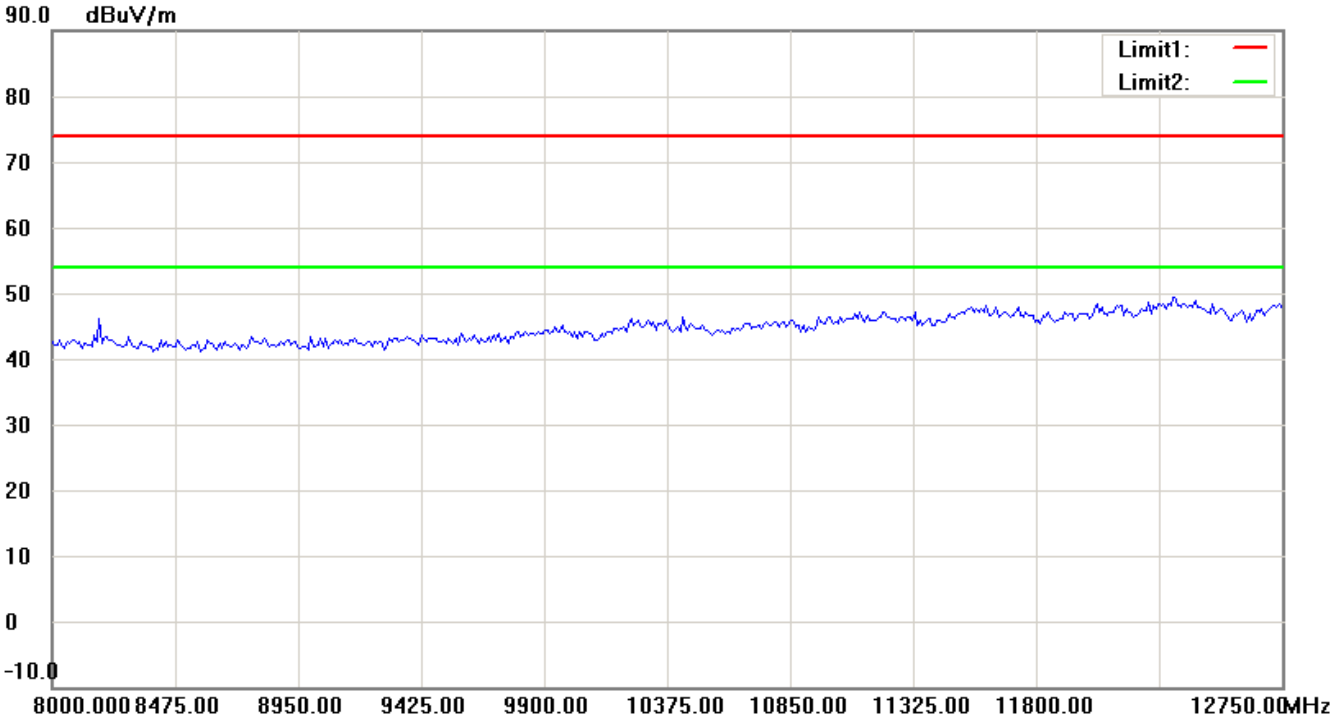

Up Line: Peak Limit Line Down Line: Ave Limit Line
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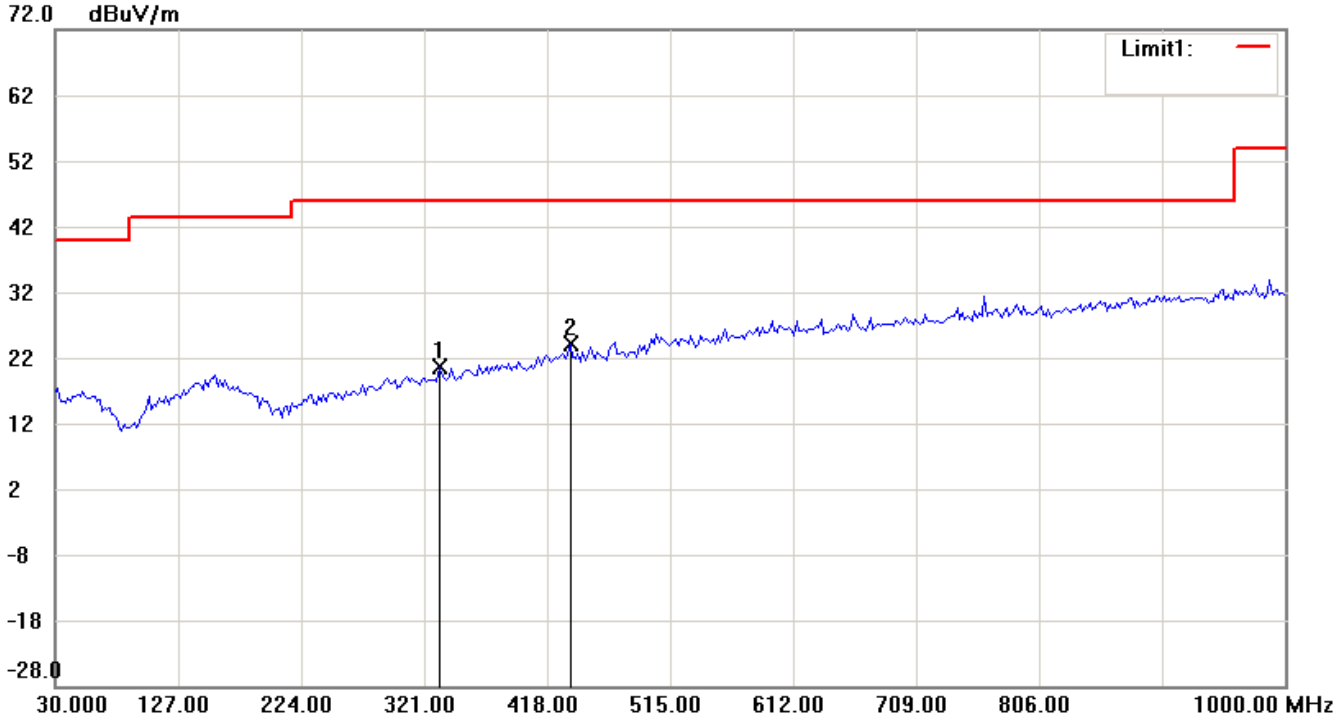
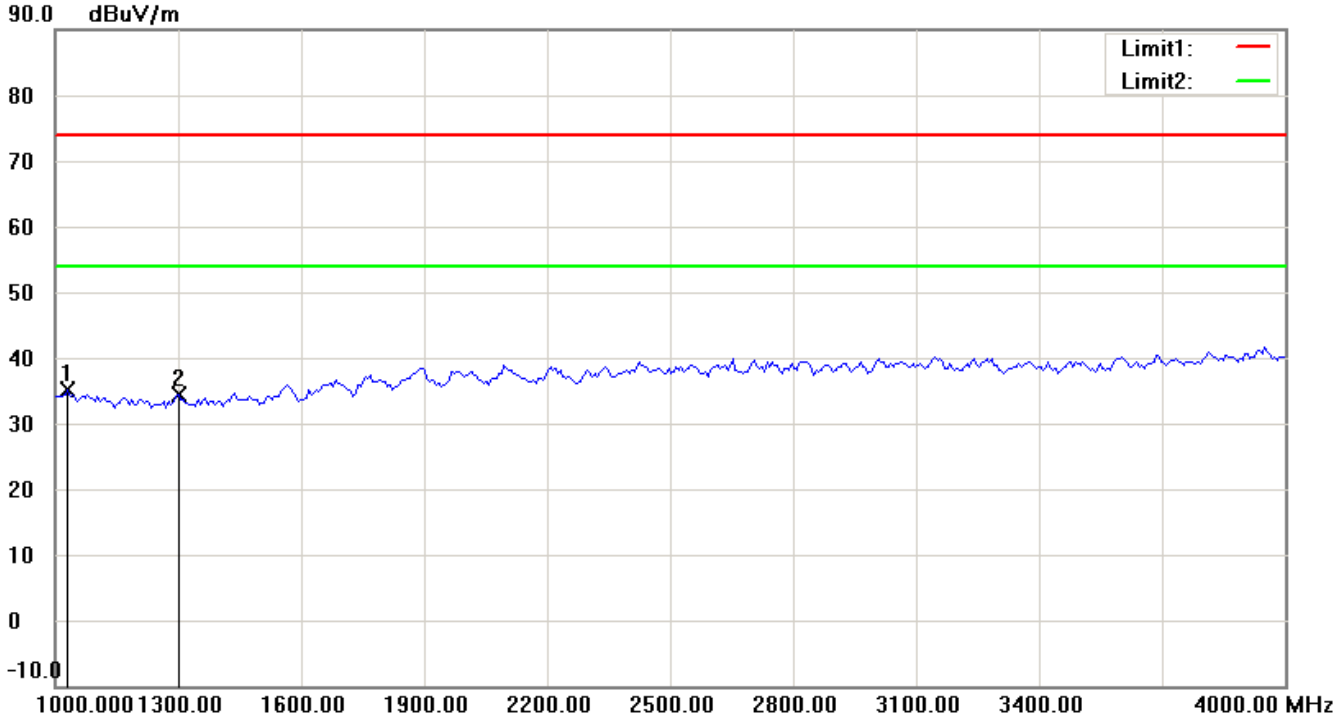
Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
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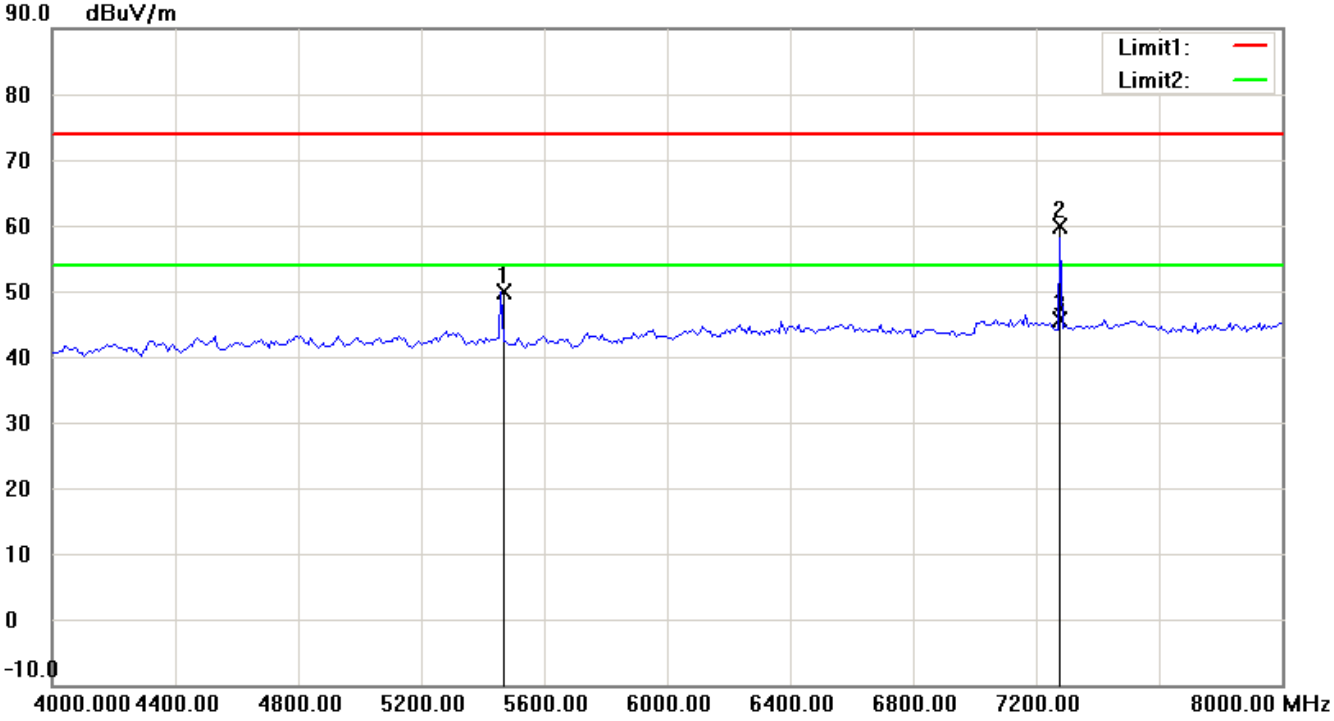

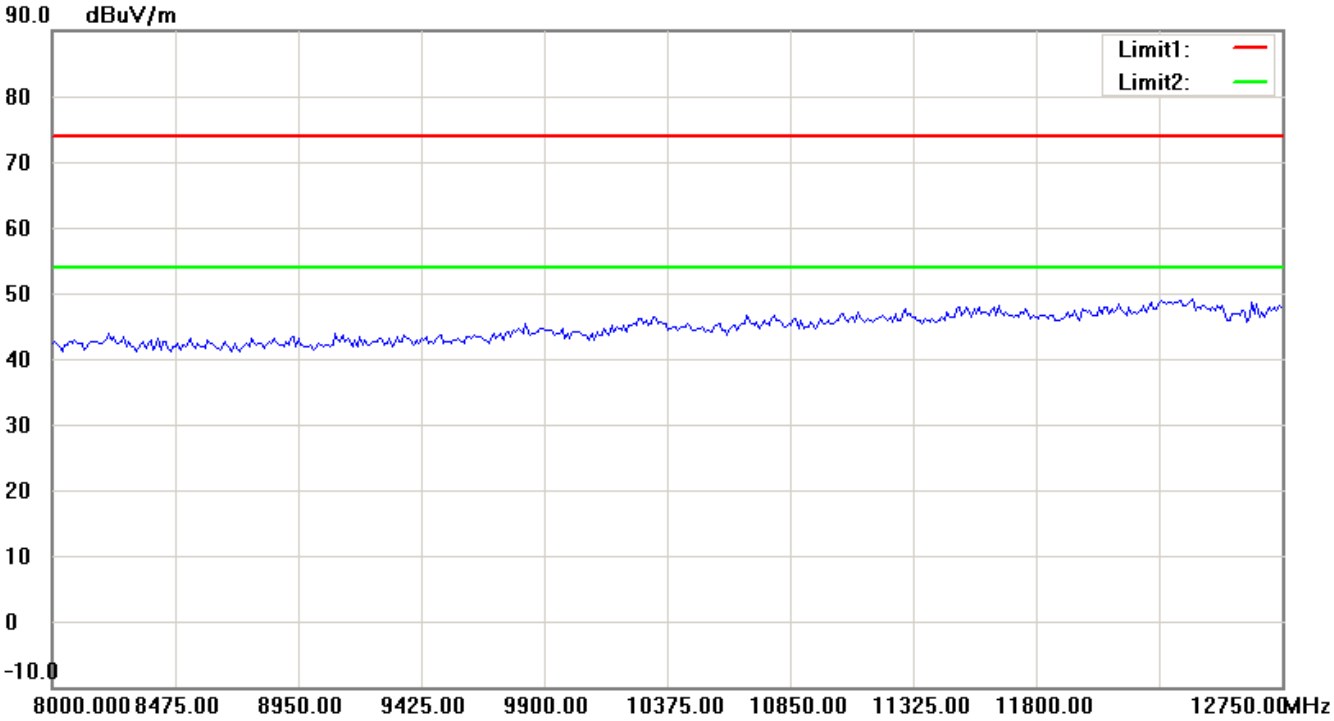

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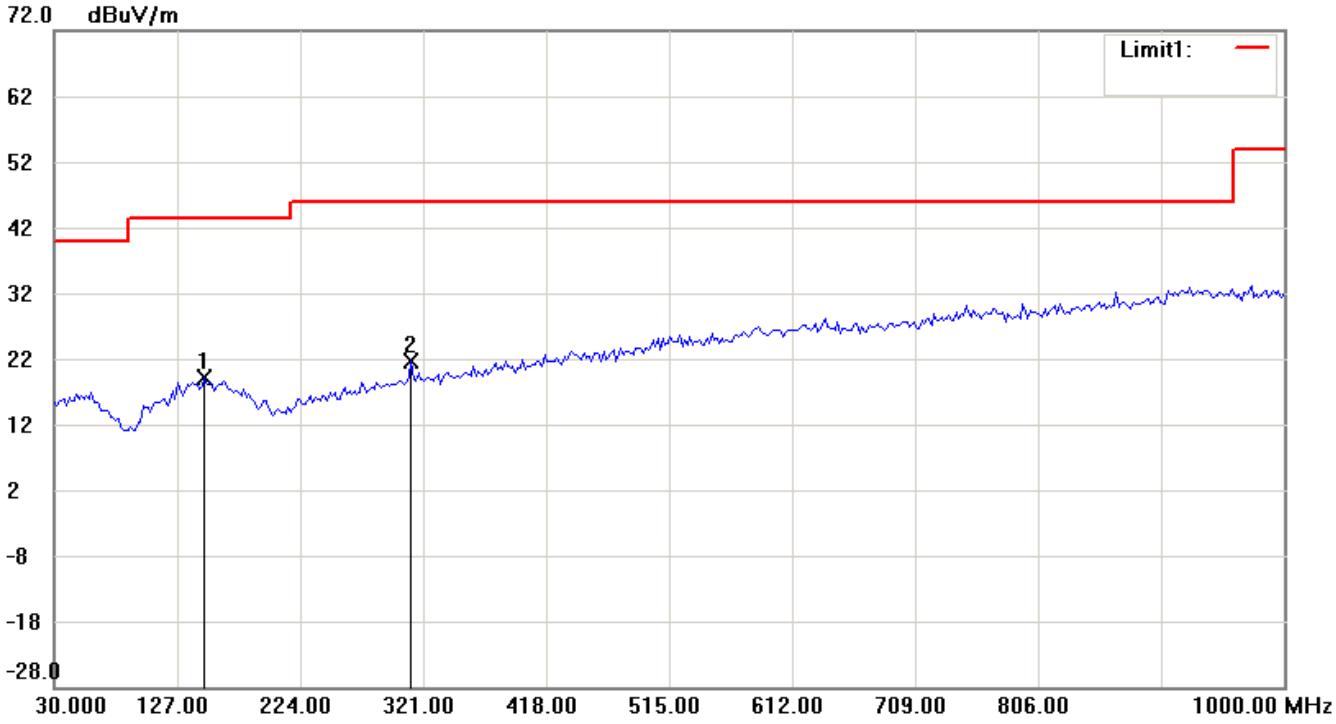
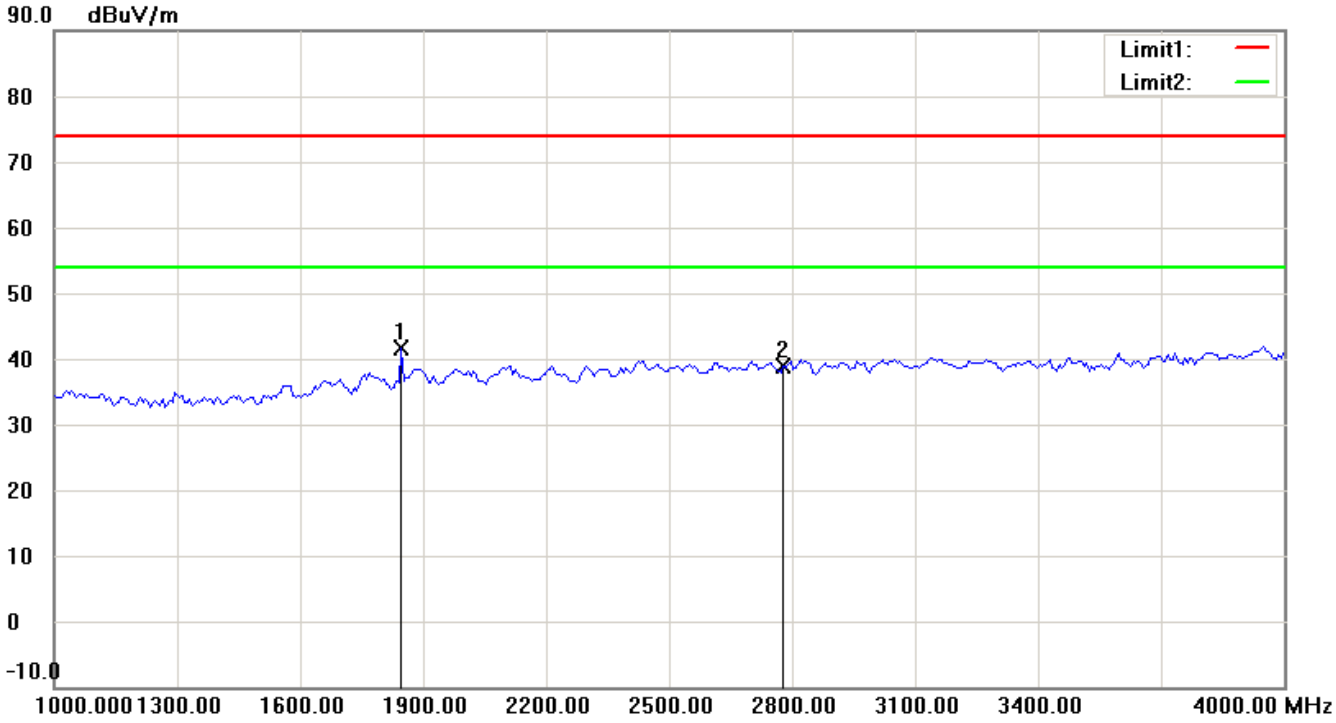
Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

925.4MHz

Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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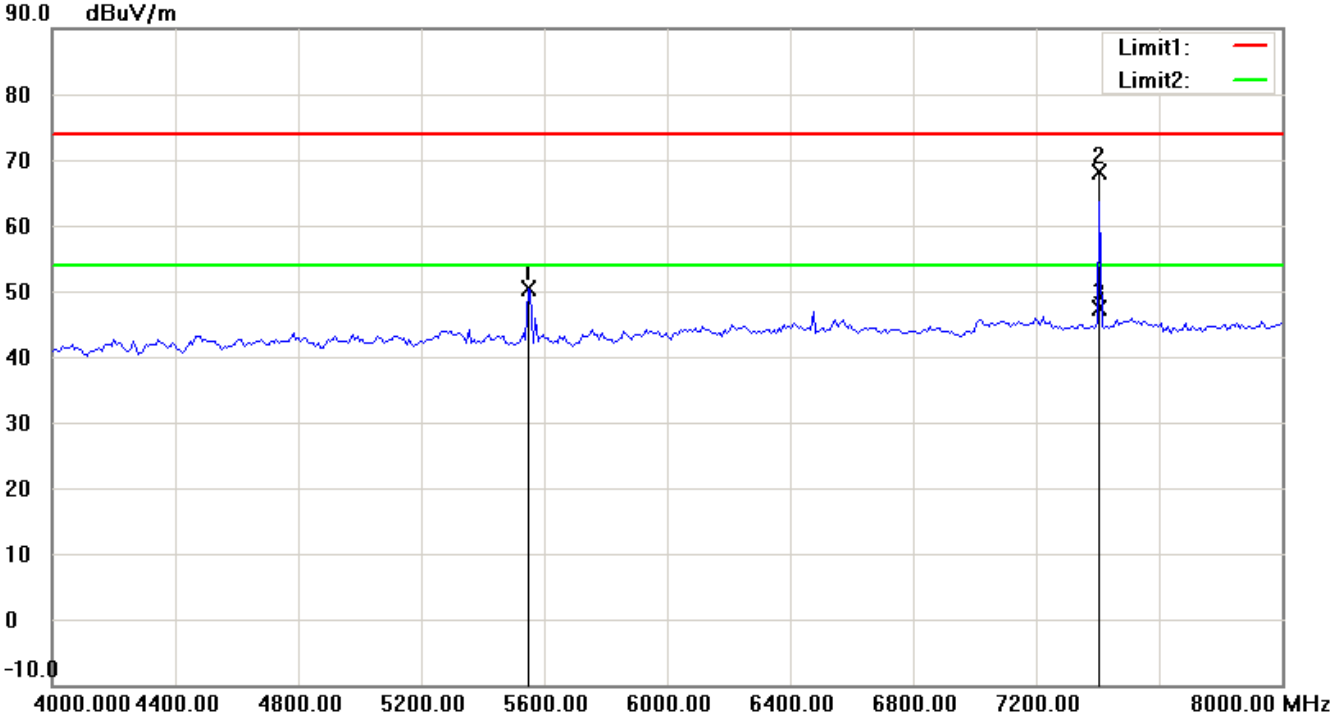
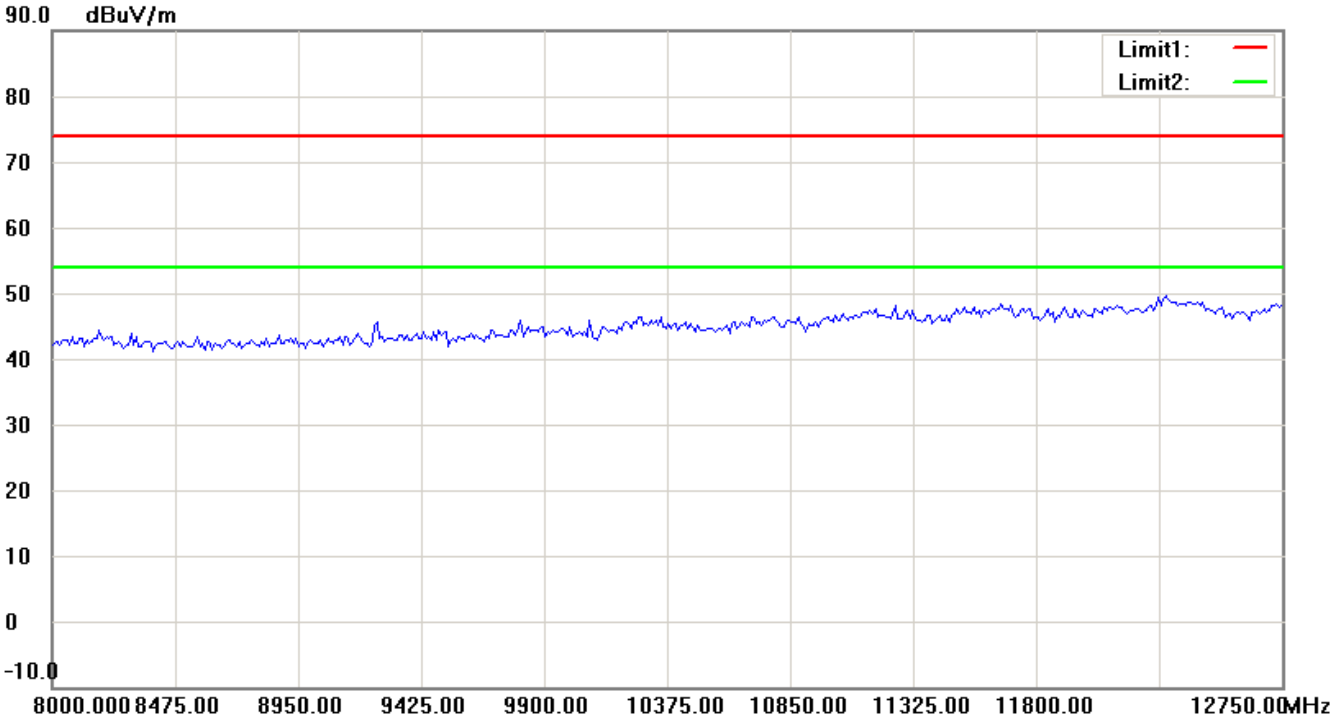
FCC ID: UAB937T01





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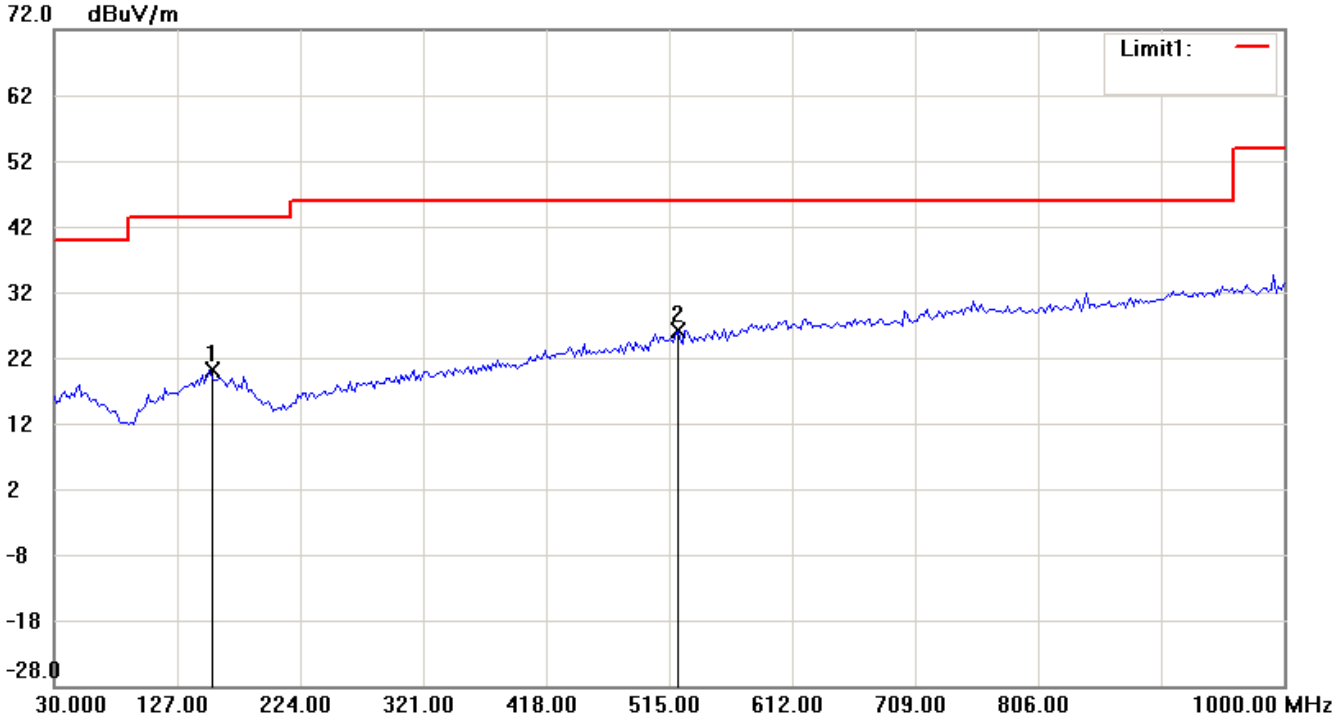
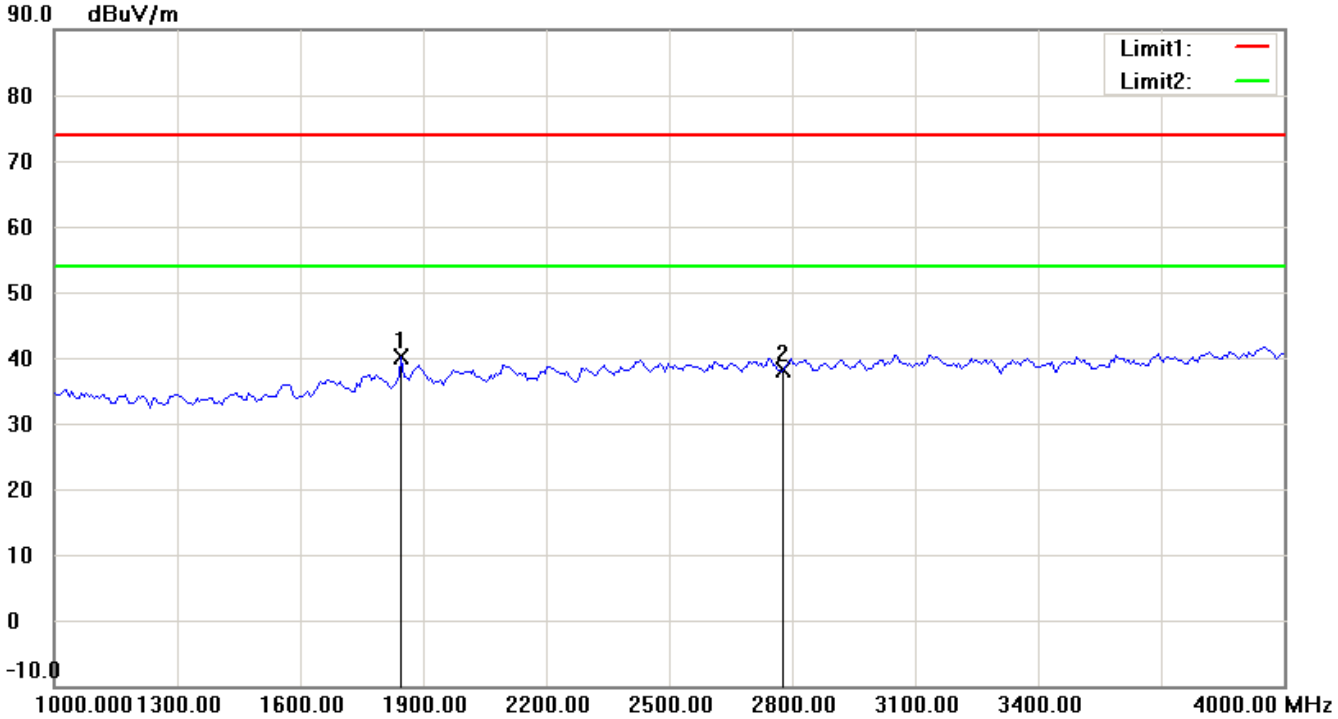
Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
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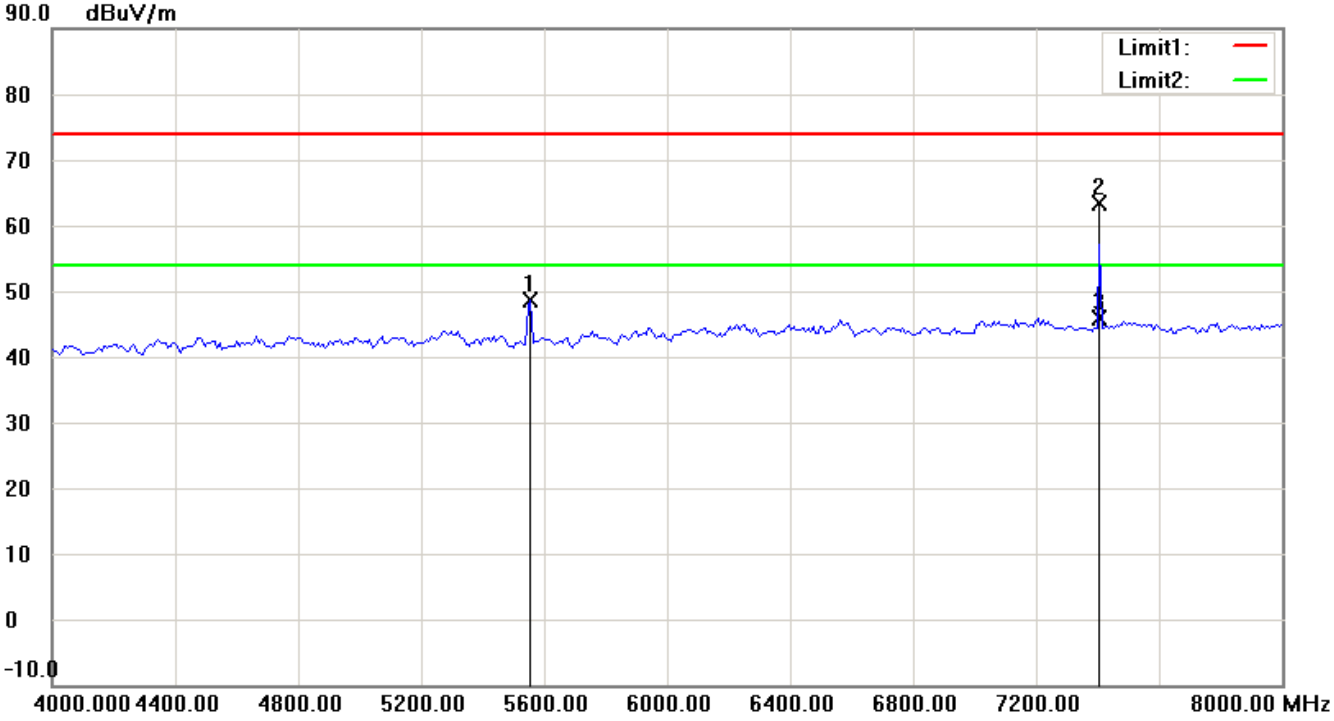

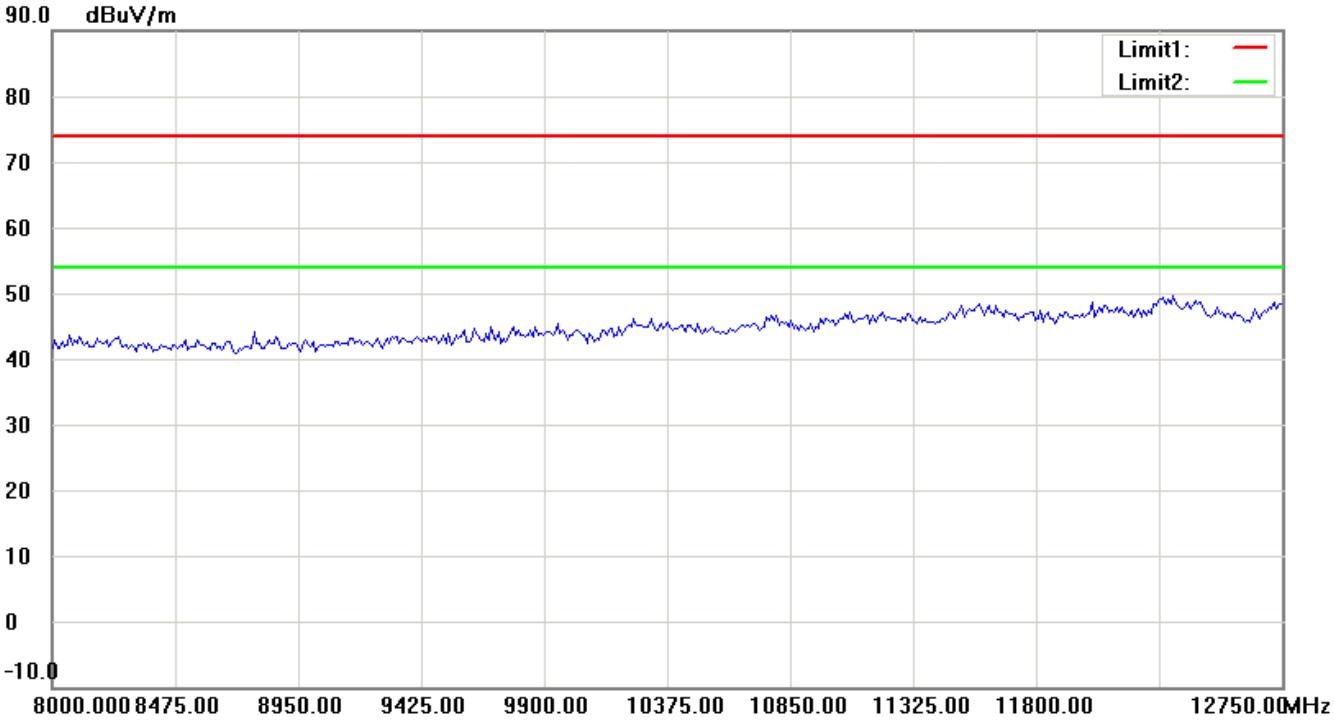

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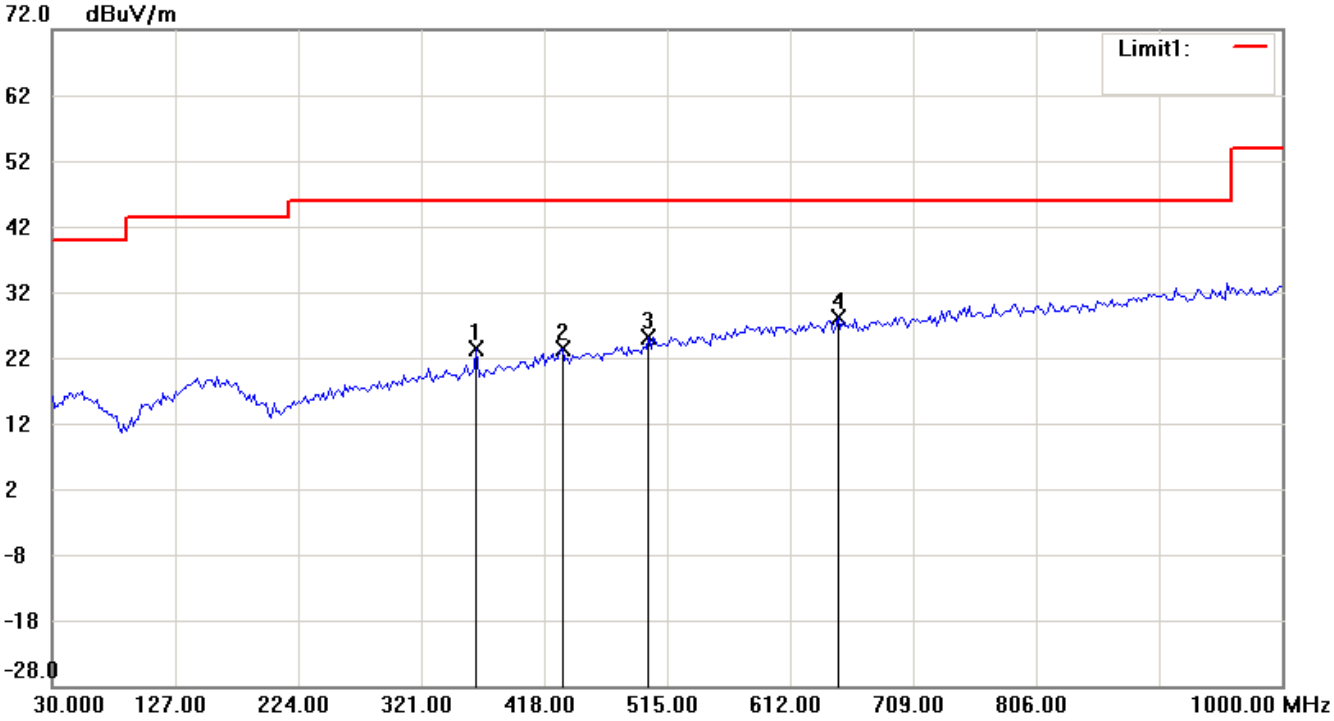
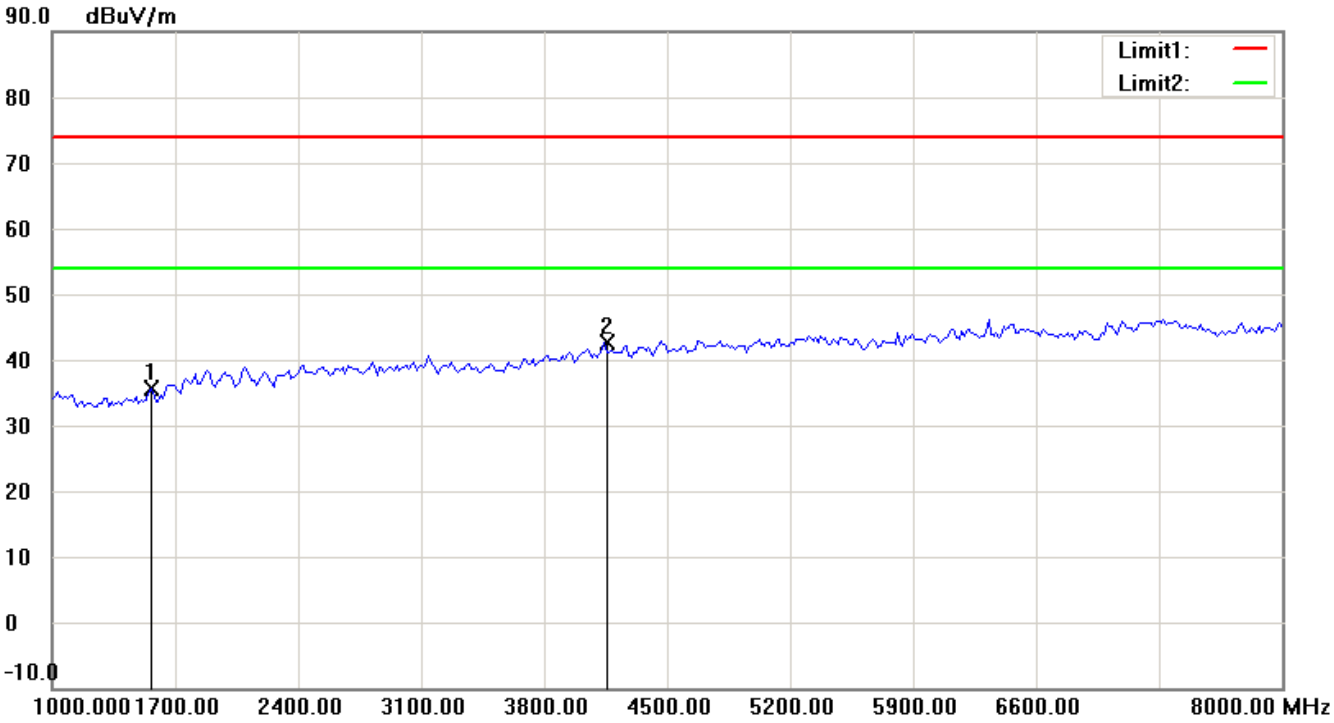
Registration number: W6M21402-13965-C-1
FCC ID: UAB937T01

Spurious Emissions radiated_Receiver
904.6MHz
Antenna Polarization H





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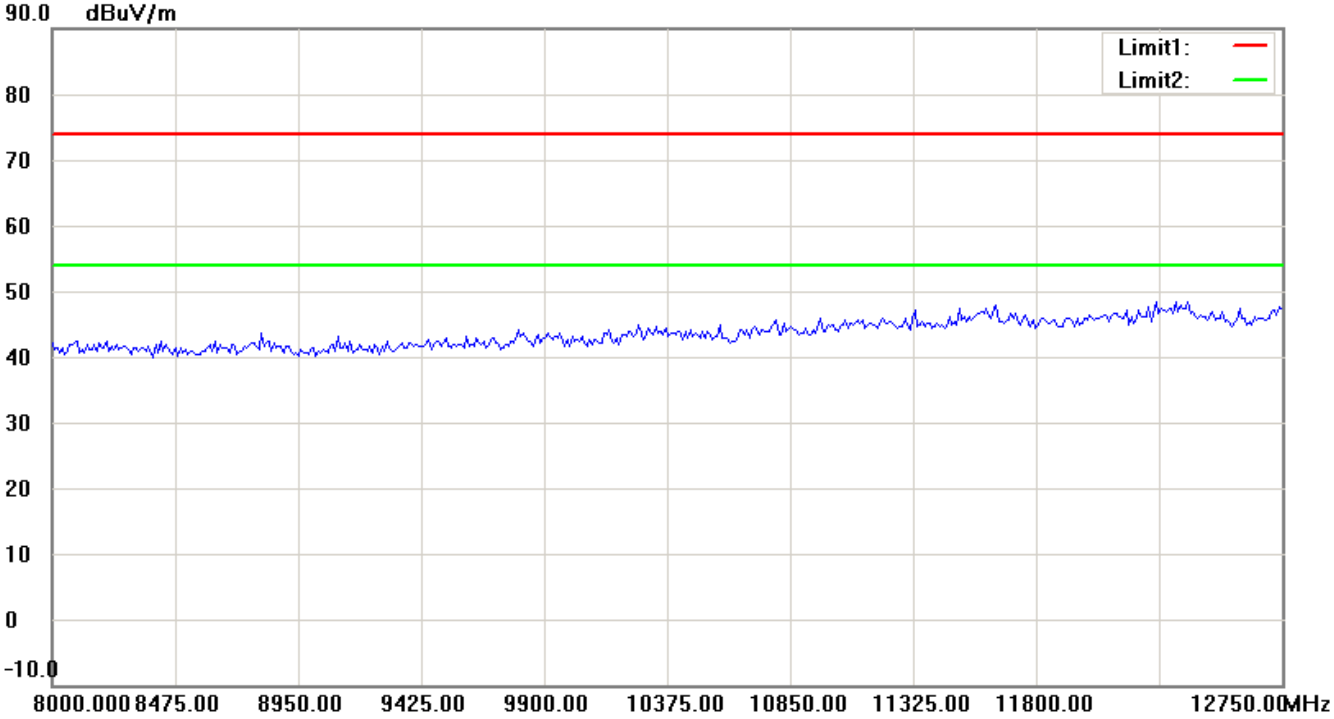
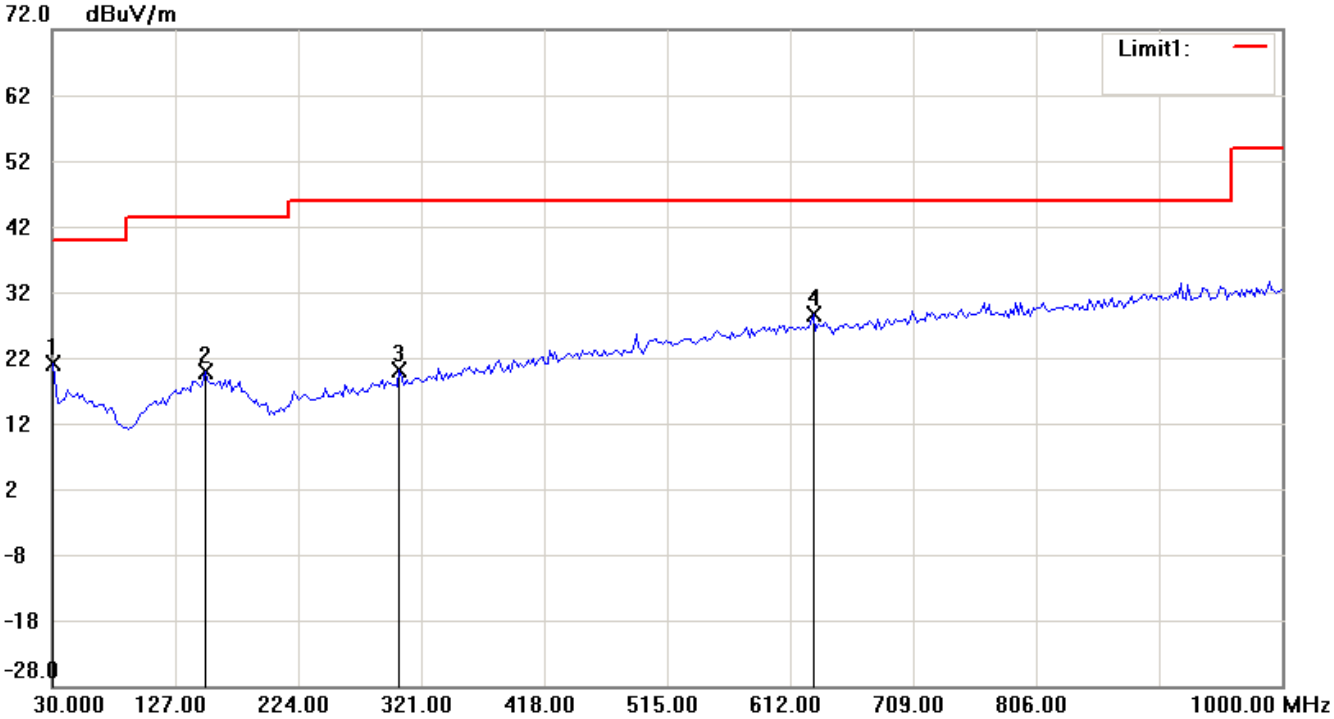


Antenna Polarization V



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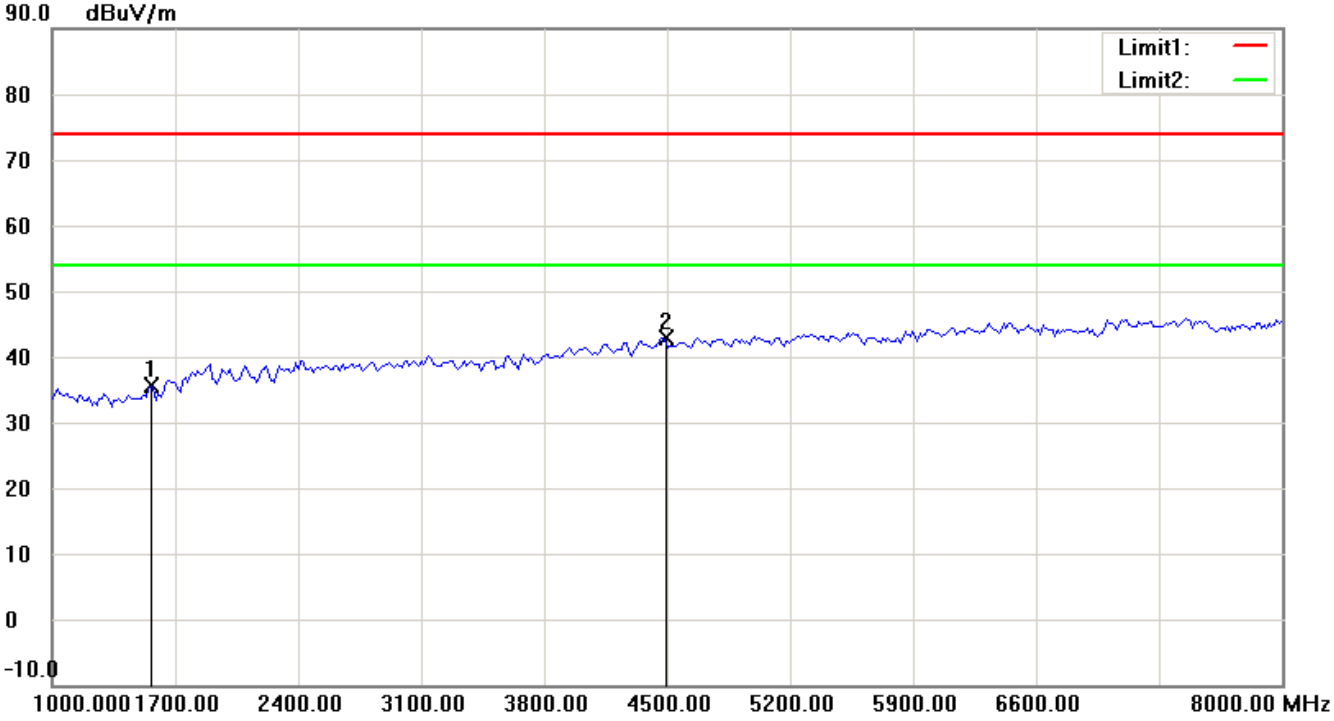

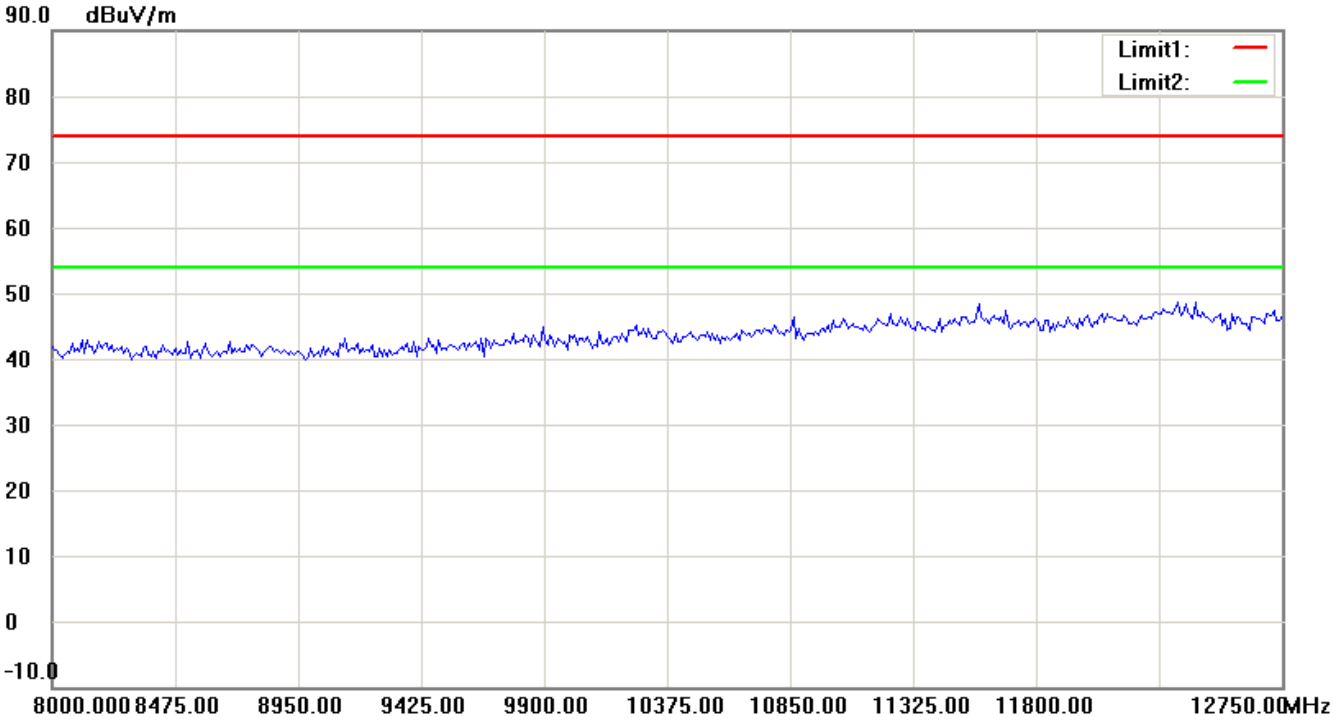

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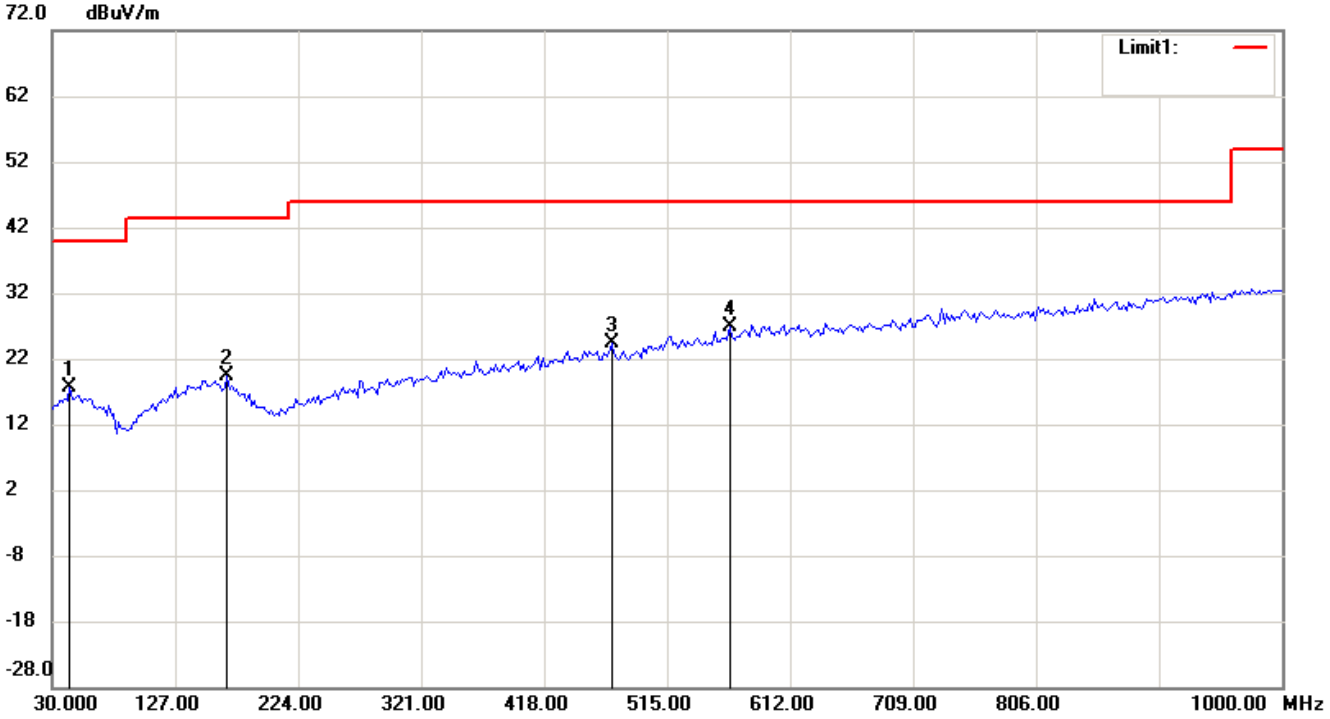
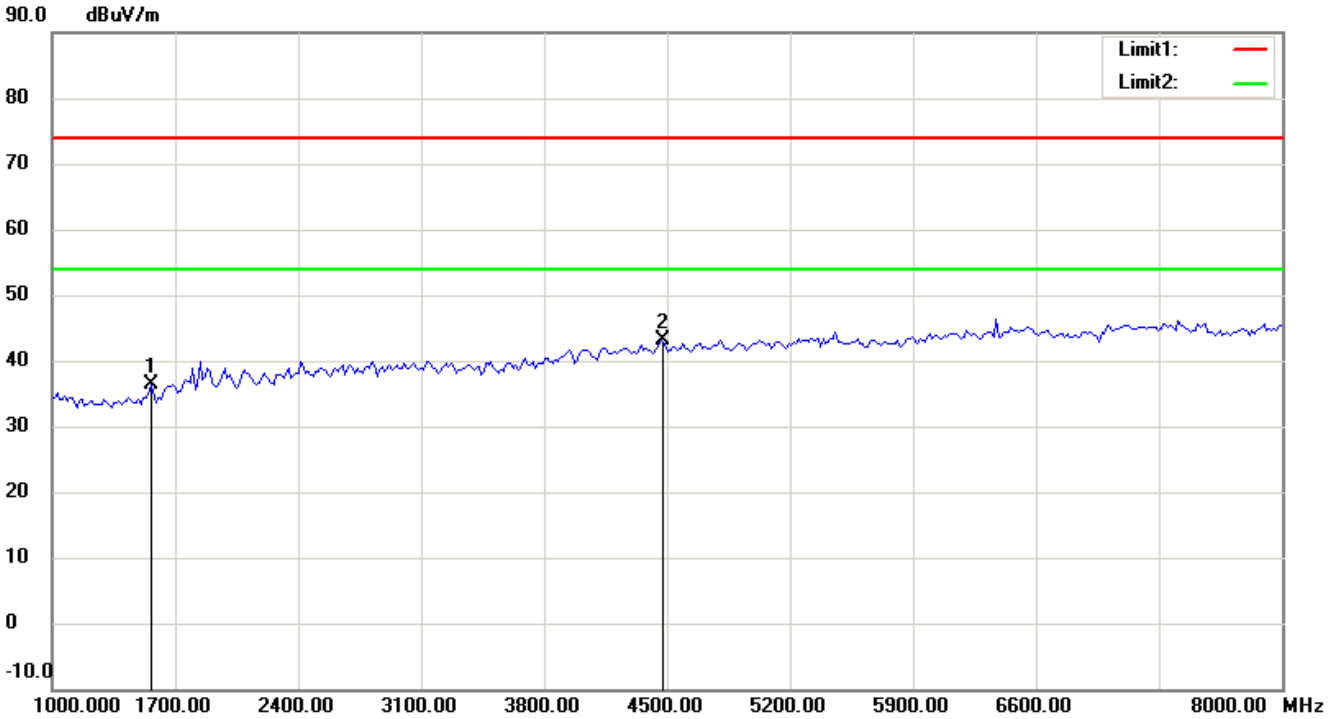
915MHz

Antenna Polarization H





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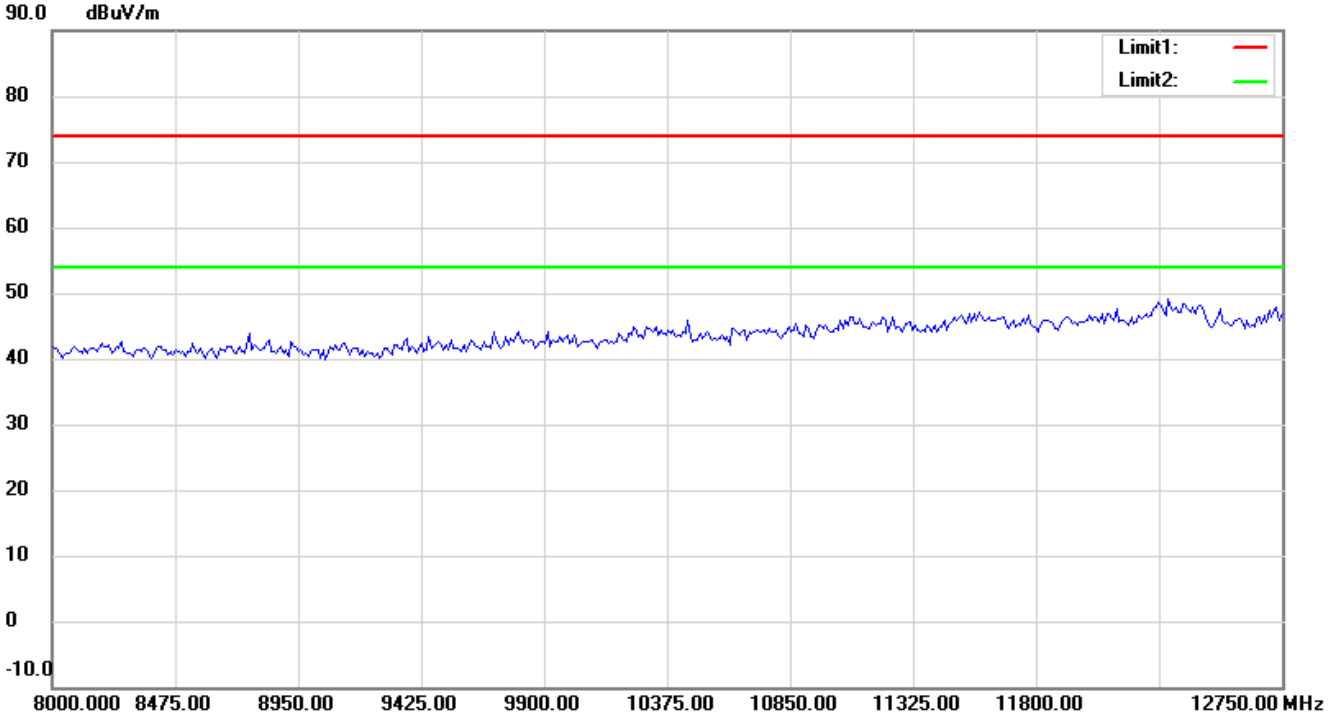
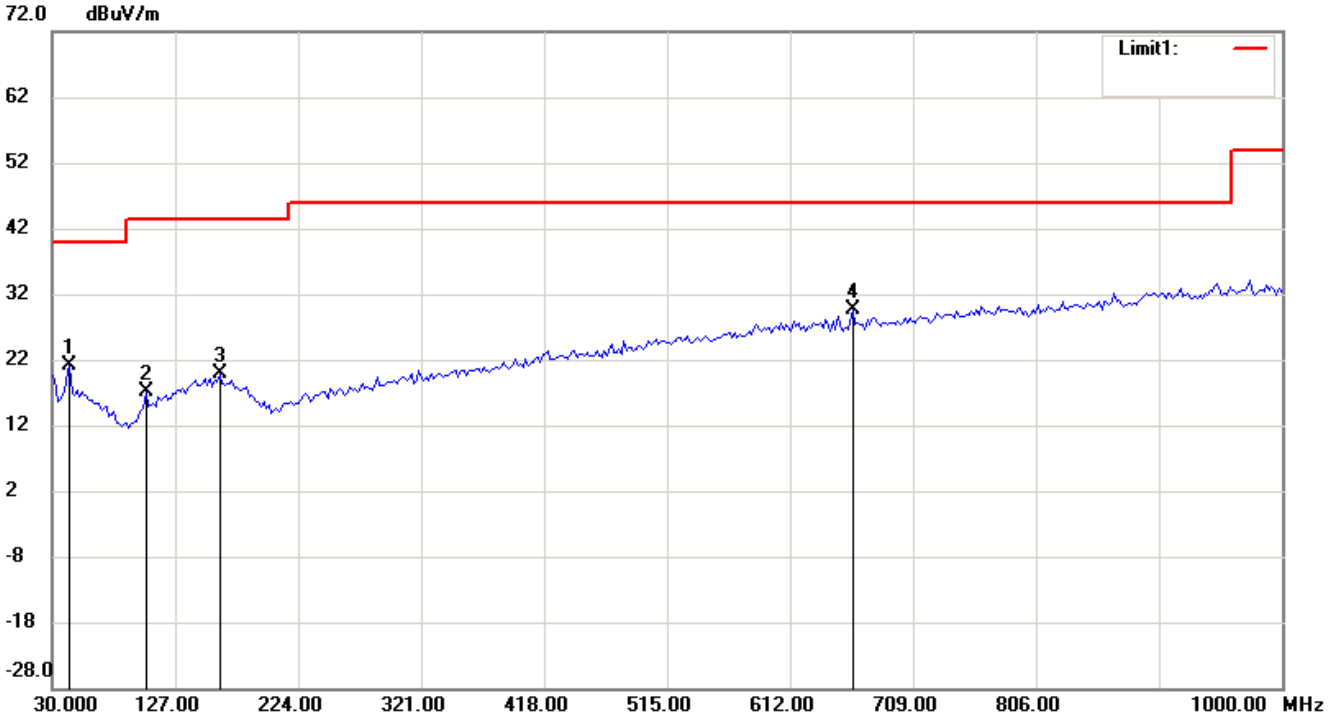


Antenna Polarization V



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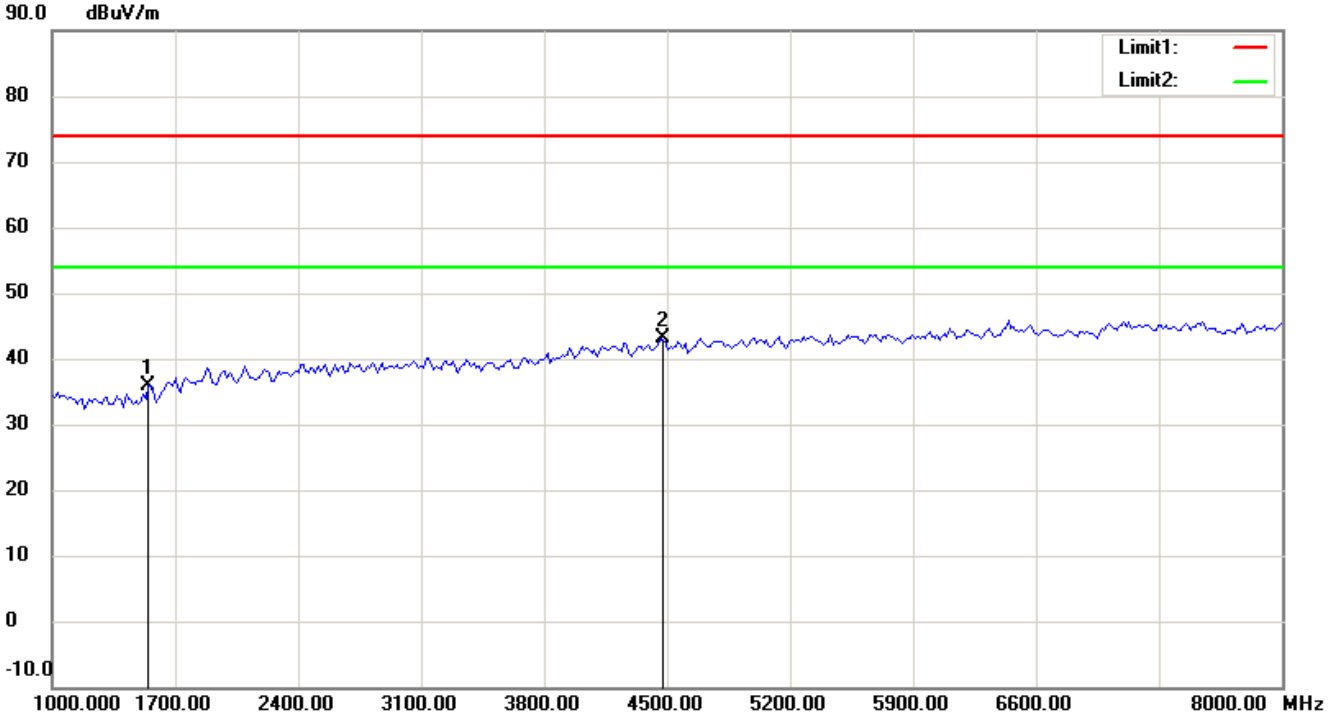

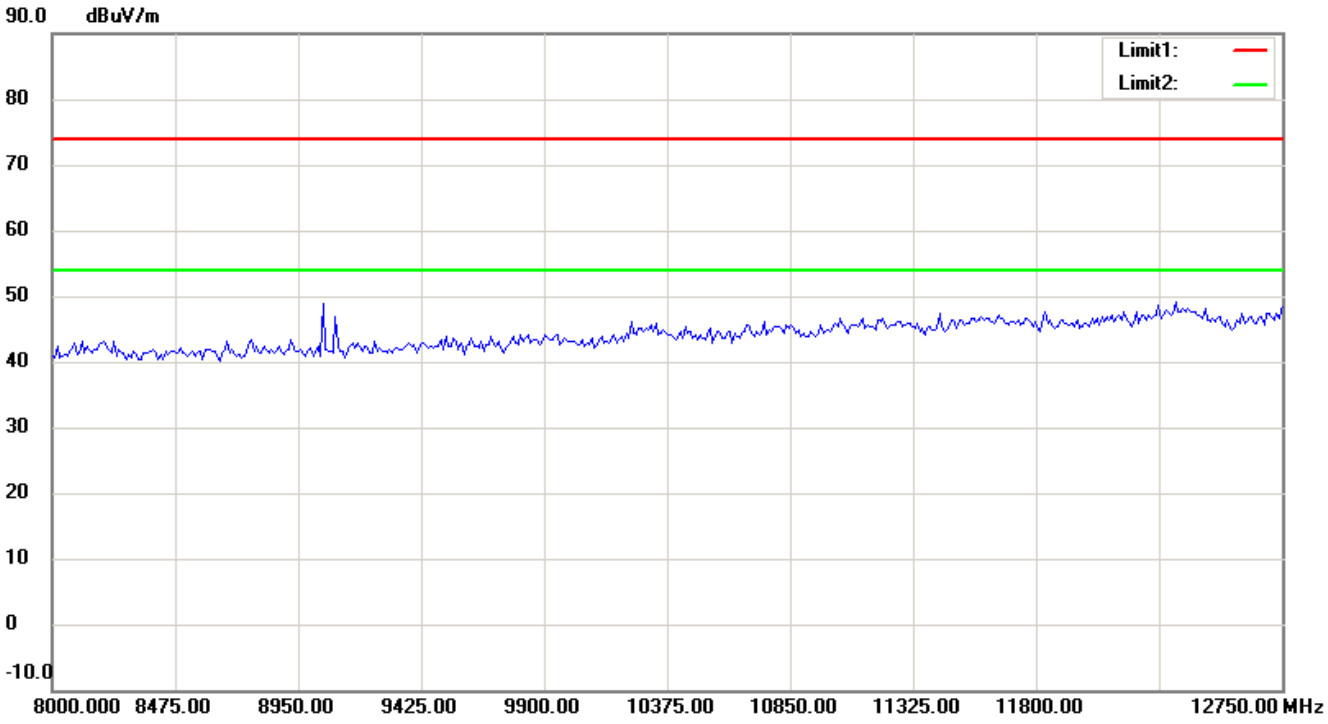

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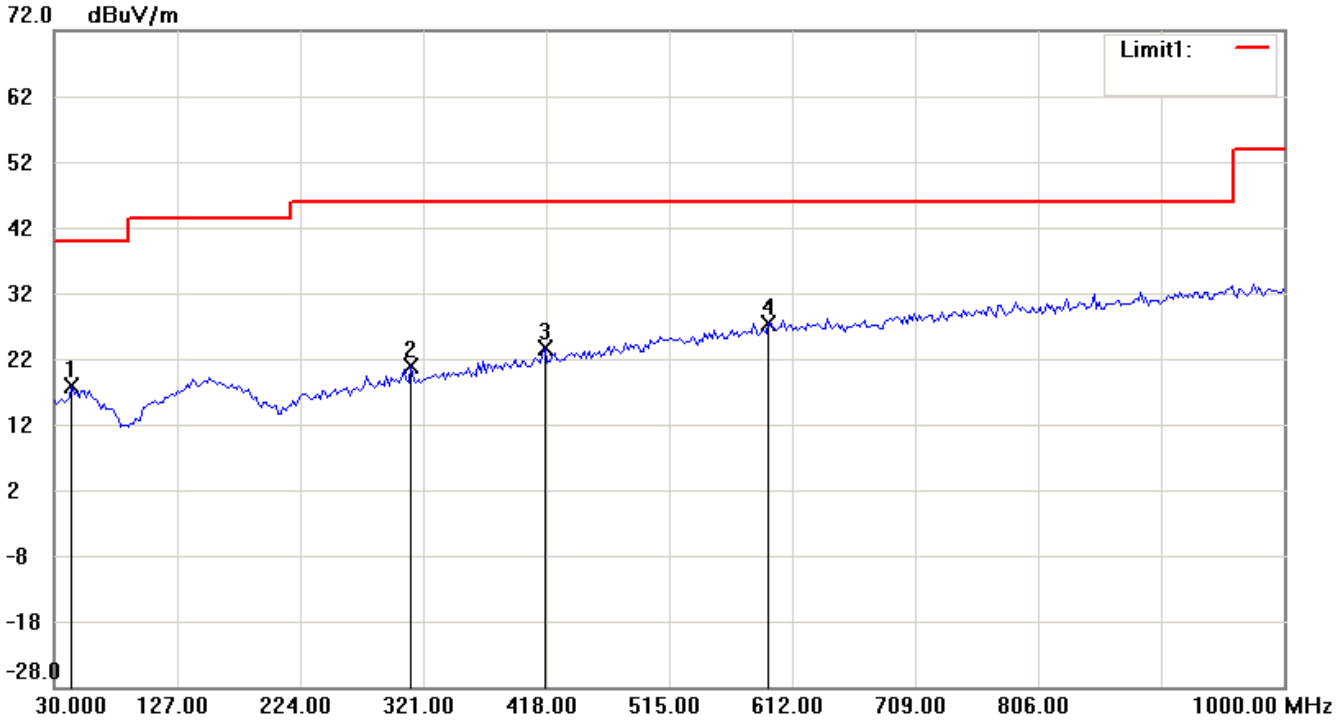
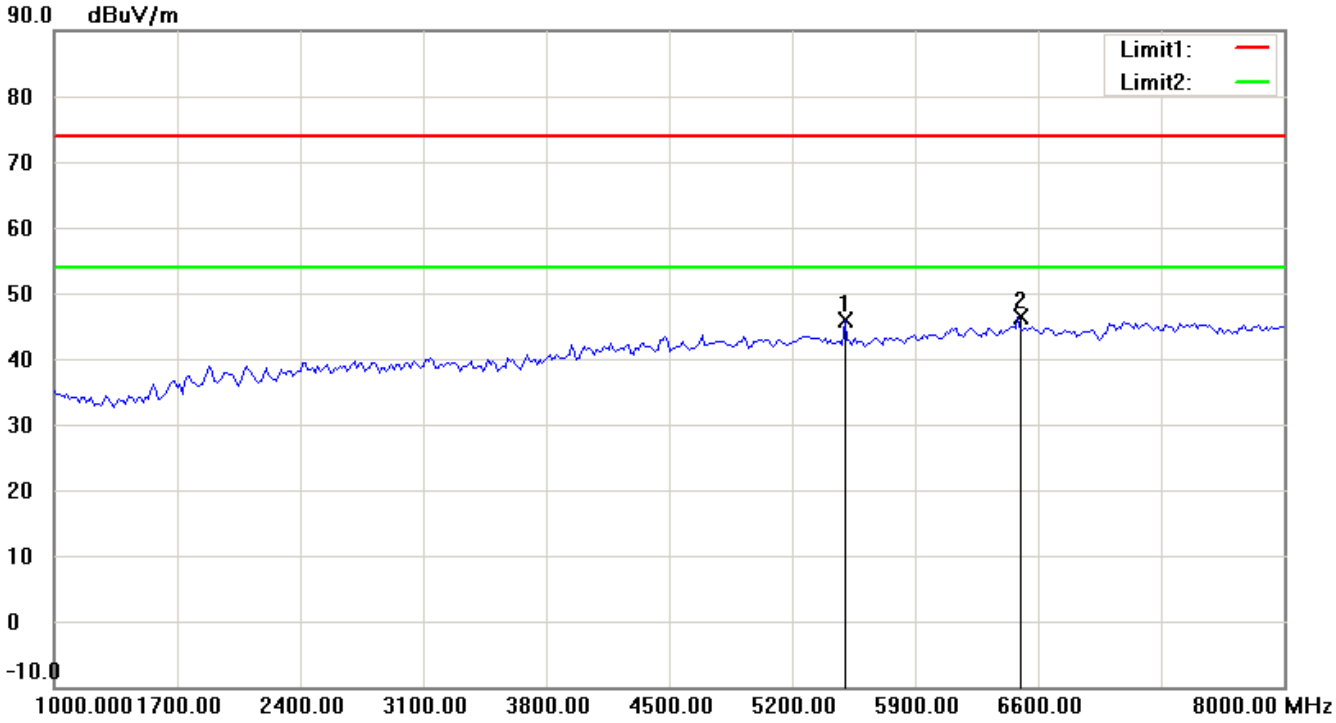
FCC ID: UAB937T01

925.4MHz

Antenna Polarization H





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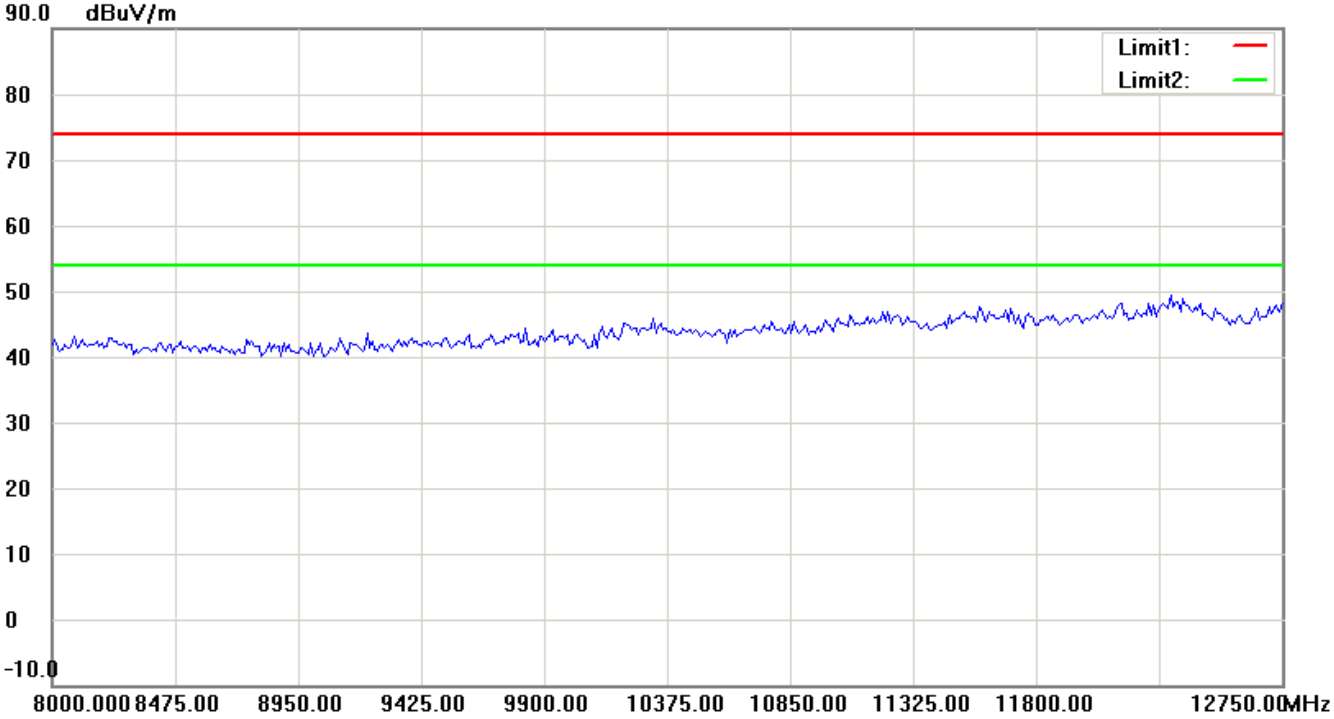
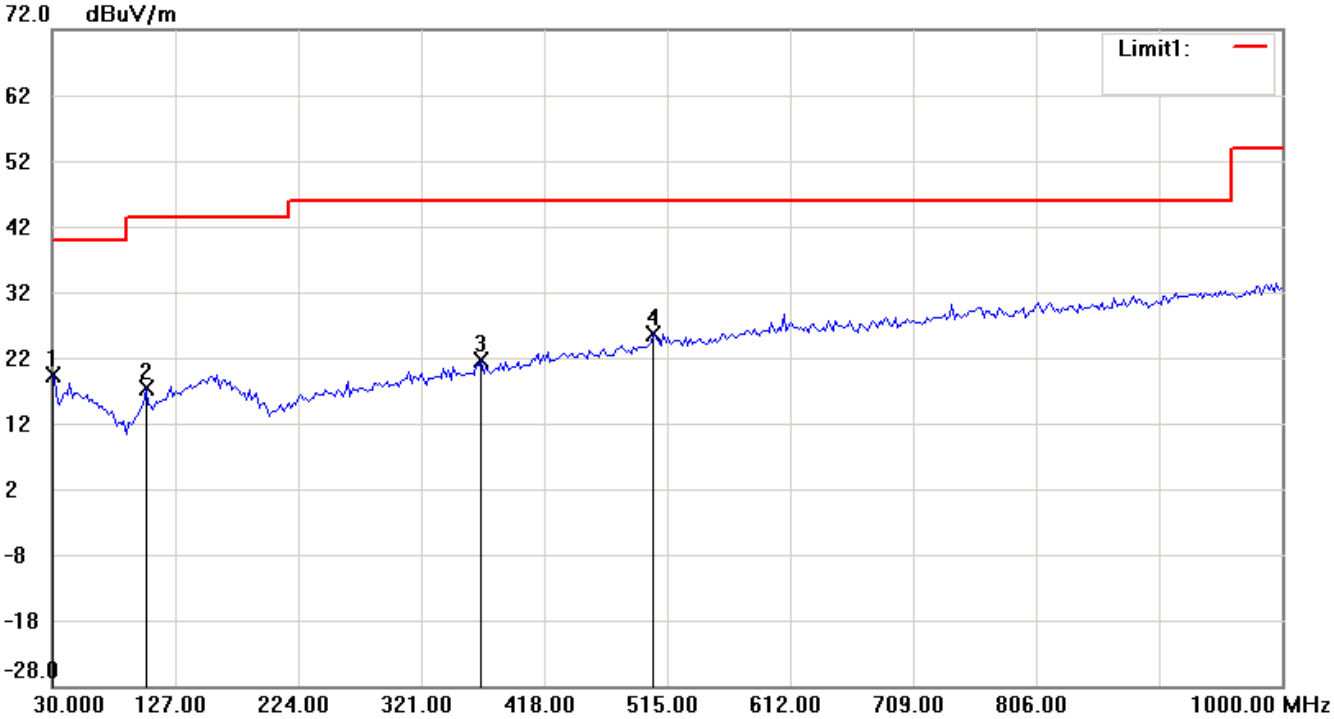


Antenna Polarization V



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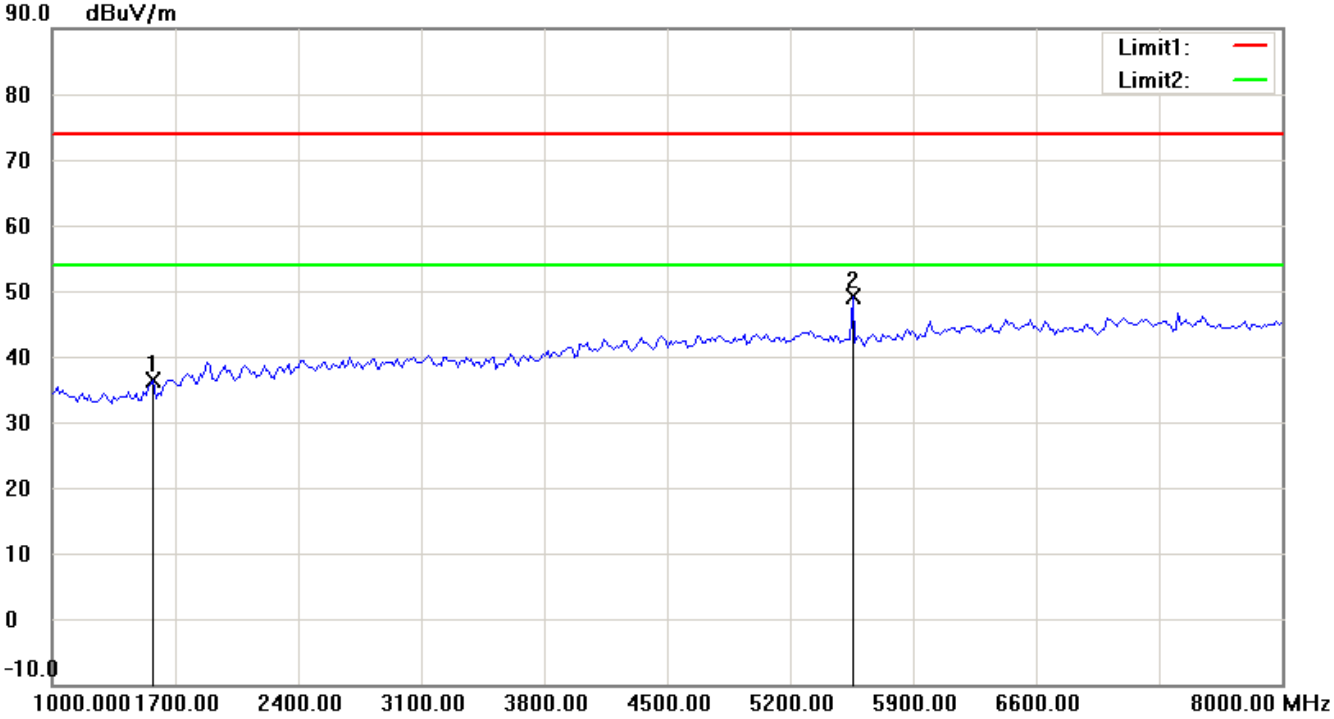

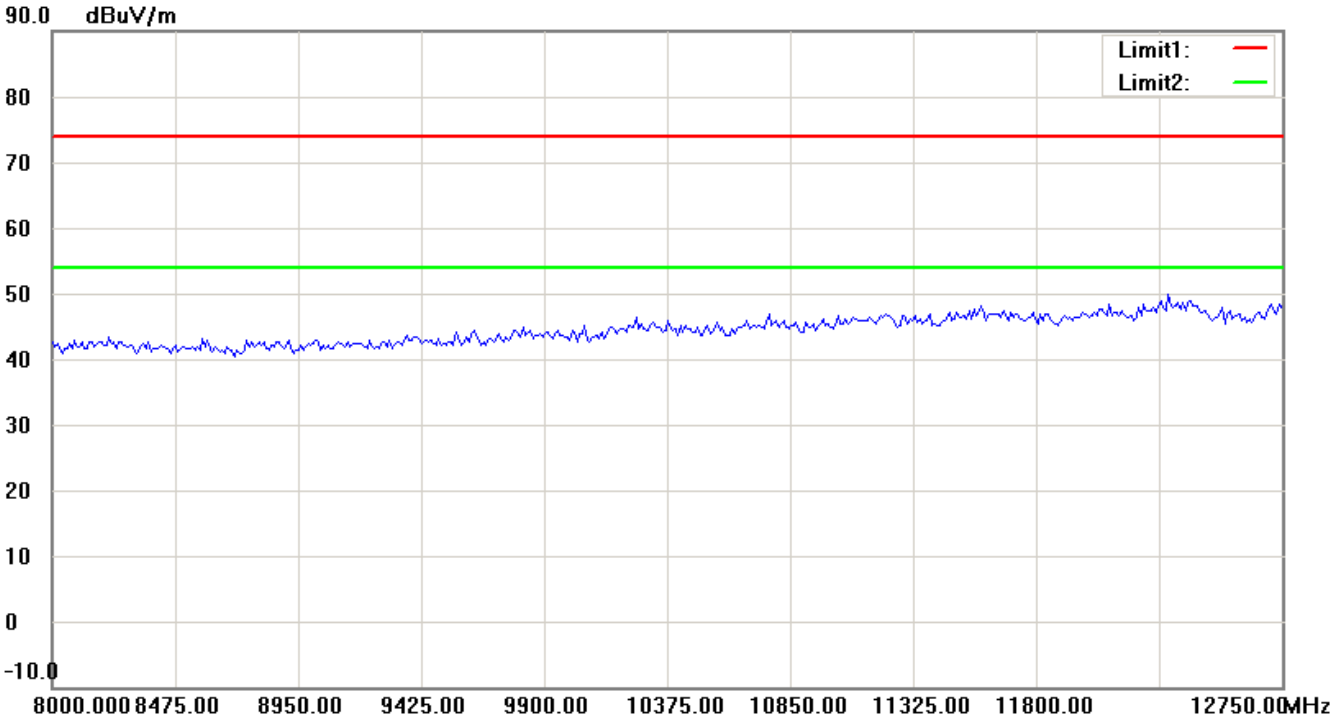

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