FCC PART 15 SUBPART C TEST REPORT

for

Wireless Mouse

Model No.: RF-7550L

FCC ID: UJ9-7550A

of

Applicant: **I-ROCKS TECHNOLOGY CO., LTD.**
Address: **12F, No. 190, Chung-hsin Rd., Sec.2, Hsin-tien Ctiy, Taipei 23146 Taiwan, R.O.C.**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01

Testing Laboratory
1477

Report No.: W6M21401-13763-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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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:

January 15, 2014		Leon Chueh	Leon Chueh
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

January 15, 2014		Kevin Wang	Kevin Wang
Date	WTS	Name	Signature

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

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: W6M21401-13763-C-1
FCC ID: UJ9-7550A

1.3 Details of approval holder

Name:	I-ROCKS TECHNOLOGY CO., LTD.
Street:	12F, No. 190, Chung-hsin Rd., Sec.2,
Town:	Hsin-tien Ctiy, Taipei 23146
Country:	Taiwan, R.O.C.
Telephone:	+886-2-2911-3080
Fax:	+886-2-2914-1712
Teletex:	./.

1.4 Application details

Date of receipt of test item:	November 17, 2013
Date of test:	From November 18, 2013 to January 14, 2014

1.5 General information of Test item

Type of test item:	Wireless Mouse
Model Number:	RF-7550L
Multi-listing model number:	./.
Photos:	see Annex

Technical data

Frequency band:	2.400-2.4835GHz
Operation Frequency:	2.408-2.474 GHz
Frequency 1:	2.408 GHz
Frequency 2:	2.440 GHz
Frequency 3:	2.474 GHz
Operation modes:	duplex
Modulation Type:	FSK
Antenna type:	PCB Antenna
Antenna Gain:	4.775 dBi
Power supply:	Battery 1.5Vdc*2

Manufacturer: (if different from applicant)

Name:	Jing Mold Electronics Technology(Shen Zhen) Co., Ltd.
Street:	Xinqiao, 3rd Industrial Estate, Shajing Baoan,
Town:	Shen Zhen,
Country:	China
Additional information:	./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2011-10)

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 1.5Vdc*2
Extreme conditions parameters:	Not required

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

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	2013/3/4	2014/3/3
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	2013/3/21	2014/3/20
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2013/5/31	2014/5/30
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2013/3/4	2014/3/3
ETSTW-RE 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	2013/3/4	2014/3/3
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2013/12/04	2014/12/03
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2013/12/27	2014/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10	2015/1/09
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	2013/3/4	2014/3/3
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-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.	2013/3/4	2014/3/3
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 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	2013/3/4	2014/3/3
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 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.	2013/3/26	2014/3/25
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2013/6/20	2014/6/19
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 Digital 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).

Model: RF-7550L Date: 2013/12/24~2013/12/26
Mode: 2408 MHz Temperature: 24 °C Engineer: Ken
Polarization: Horizontal Humidity: 60 %

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)
2408.4260	57.49	39.87	37.53	95.02	77.40	114.00	94.00	-16.60	10	100

Polarization: Vertical

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)
2408.4310	54.51	---	37.53	92.04	---	114.00	94.00	-21.96	90	100

Mode: 2440 MHz
Polarization: Horizontal

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)
2440.4310	59.62	41.02	37.65	97.27	78.67	114.00	94.00	-15.33	10	100

Polarization: Vertical

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)
2440.4410	55.92	40.30	37.65	93.57	77.95	114.00	94.00	-16.05	85	100

Mode: 2474 MHz
Polarization: Horizontal

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)
2474.3640	59.34	41.72	37.78	97.12	79.50	114.00	94.00	-14.50	13	100

Polarization: Vertical

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)
2474.4240	55.25	40.63	37.78	93.03	78.41	114.00	94.00	-15.59	85	100

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

Explanation: The diagrams for the field strength measurements are included in appendix.

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

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: RF-7550L Date: 2013/12/24~2014/01/09
Mode: TX_2408 MHz 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)
469.3186	6.65	peak	20.24	26.89	46.00	-19.11	185	100
587.8958	5.48	peak	22.66	28.14	46.00	-17.86	45	100

Frequency	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
2557.1140	55.04	---	-3.41	51.63	---	74.00	54.00	-22.37	115	100
2707.4150	53.32	---	-3.08	50.24	---	74.00	54.00	-23.76	90	100
4817.6350	60.99	42.37	0.48	61.47	42.85	74.00	54.00	-11.15	10	100
7230.4610	51.55	40.93	4.05	55.60	44.98	74.00	54.00	-9.02	340	100
9632.0000	36.67	---	9.15	45.82	---	74.00	54.00	-28.18	115	100
12040.0000	34.01	---	13.69	47.70	---	74.00	54.00	-26.30	90	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.3186	5.52	peak	20.24	25.76	46.00	-20.24	90	100
601.5030	6.02	peak	23.19	29.21	46.00	-16.79	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)
2557.1140	50.27	---	-3.41	46.86	---	74.00	54.00	-27.14	55	100
2707.4150	53.07	---	-3.08	49.99	---	74.00	54.00	-24.01	135	100
4817.6350	52.44	39.82	0.48	52.92	40.30	74.00	54.00	-13.70	90	100
7230.4610	55.22	39.60	4.05	59.27	43.65	74.00	54.00	-10.35	175	100
9632.0000	36.25	---	9.15	45.40	---	74.00	54.00	-28.60	195	100
12040.0000	33.73	---	13.69	47.42	---	74.00	54.00	-26.58	130	100

Mode: TX_2440 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.3186	8.20	peak	20.24	28.44	46.00	-17.56	195	100
601.5030	6.47	peak	23.19	29.66	46.00	-16.34	140	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)
4881.7640	49.21	---	0.63	49.84	---	74.00	54.00	-24.16	155	100
7326.6530	50.04	41.42	4.25	54.29	45.67	74.00	54.00	-8.33	130	100
9760.0000	35.76	---	9.58	45.34	---	74.00	54.00	-28.66	55	100
12200.0000	33.76	---	14.93	48.69	---	74.00	54.00	-25.31	80	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.3186	5.53	peak	20.24	25.77	46.00	-20.23	90	100
601.5030	7.20	peak	23.19	30.39	46.00	-15.61	115	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)
4873.7480	46.98	---	0.61	47.59	---	74.00	54.00	-26.41	135	100
7326.6530	50.42	40.90	4.25	54.67	45.15	74.00	54.00	-8.85	140	100
9760.0000	35.16	---	9.58	44.74	---	74.00	54.00	-29.26	120	100
12200.0000	34.26	---	14.93	49.19	---	74.00	54.00	-24.81	170	100

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

Mode: TX_2474 MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
469.3186	8.24	peak	20.24	28.48	46.00	-17.52	125	100
599.5590	6.76	peak	23.16	29.92	46.00	-16.08	30	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)
4945.8920	47.53	---	1.00	48.53	---	74.00	54.00	-25.47	155	100
7422.8460	44.97	---	4.47	49.44	---	74.00	54.00	-24.56	135	100
9896.0000	36.22	---	9.68	45.90	---	74.00	54.00	-28.10	105	100
12370.0000	33.87	---	14.90	48.77	---	74.00	54.00	-25.23	90	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
533.4670	4.81	peak	21.24	26.05	46.00	-19.95	130	100
601.5030	6.36	peak	23.19	29.55	46.00	-16.45	75	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)
4945.8920	49.01	---	1.00	50.01	---	74.00	54.00	-23.99	145	100
7422.8460	44.88	---	4.47	49.35	---	74.00	54.00	-24.65	35	100
9896.0000	36.79	---	9.68	46.47	---	74.00	54.00	-27.53	130	100
12370.0000	34.55	---	14.90	49.45	---	74.00	54.00	-24.55	115	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: 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 088, ETSTW-RE 018

3.6 Radiated Emissions from Digital 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:

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

Note

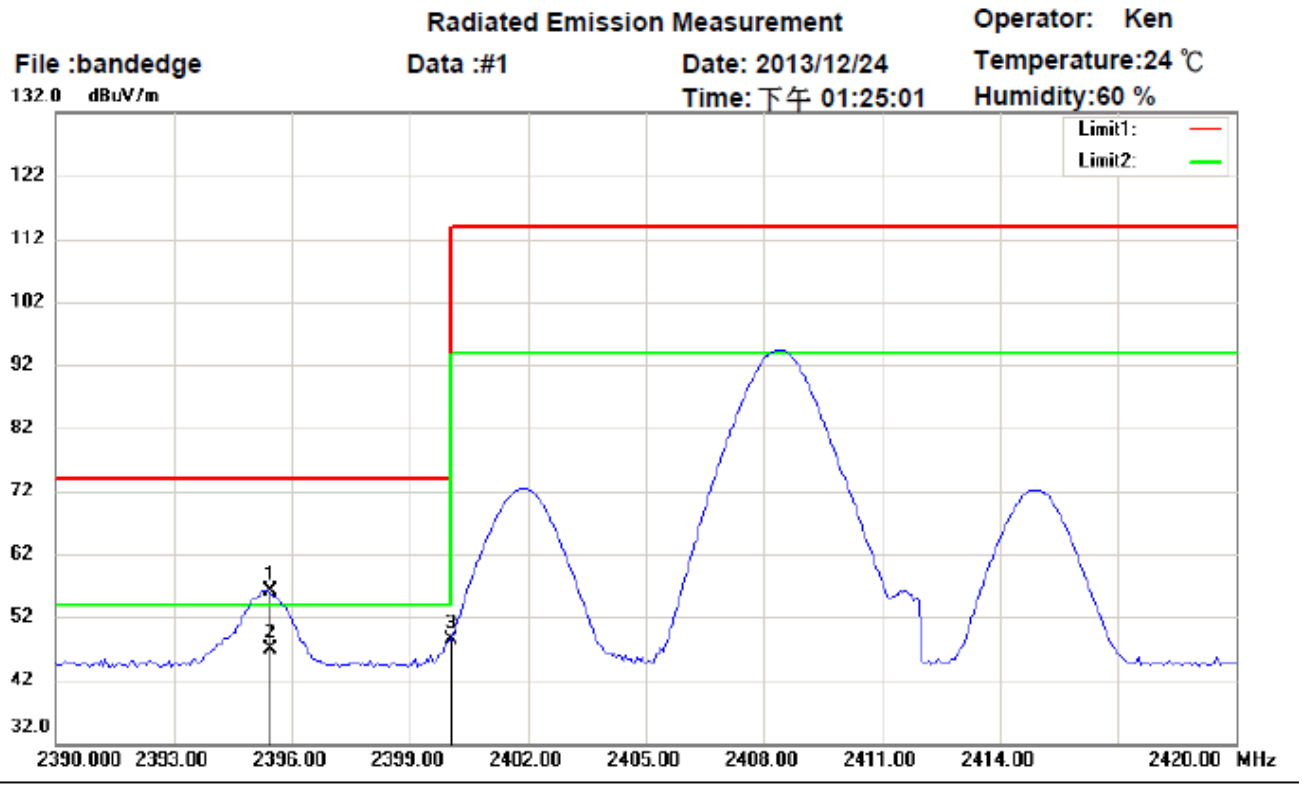
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below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

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

Explanation: The test results are listed in the separated test report no.: W6M21401-13763-P-15B.

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).

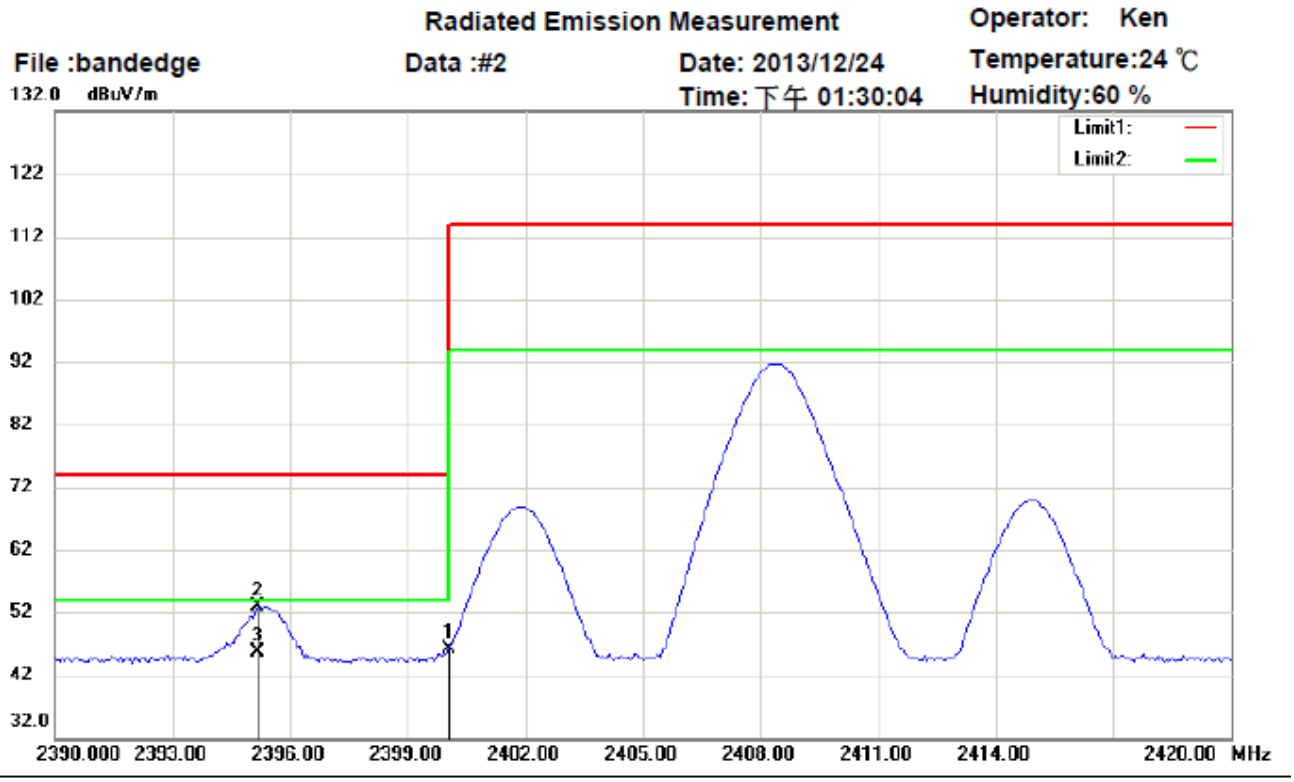


Site : Chamber_01
Condition : FCC 15.249 PK (Bandedge)
EUT : W6M21401-13763
M/N: RF-7550L
Test Mode : 2408MHz
Note :

Polarization: *Horizontal*
Power : 3VDC
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
	2395.426	18.66	peak	37.49	56.15	74.00	100	15	-17.85	
*	2395.426	9.34	AVG	37.49	46.83	54.00	100	15	-7.17	
	2400.000	10.98	peak	37.50	48.48	74.00	100	15	-25.52	

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

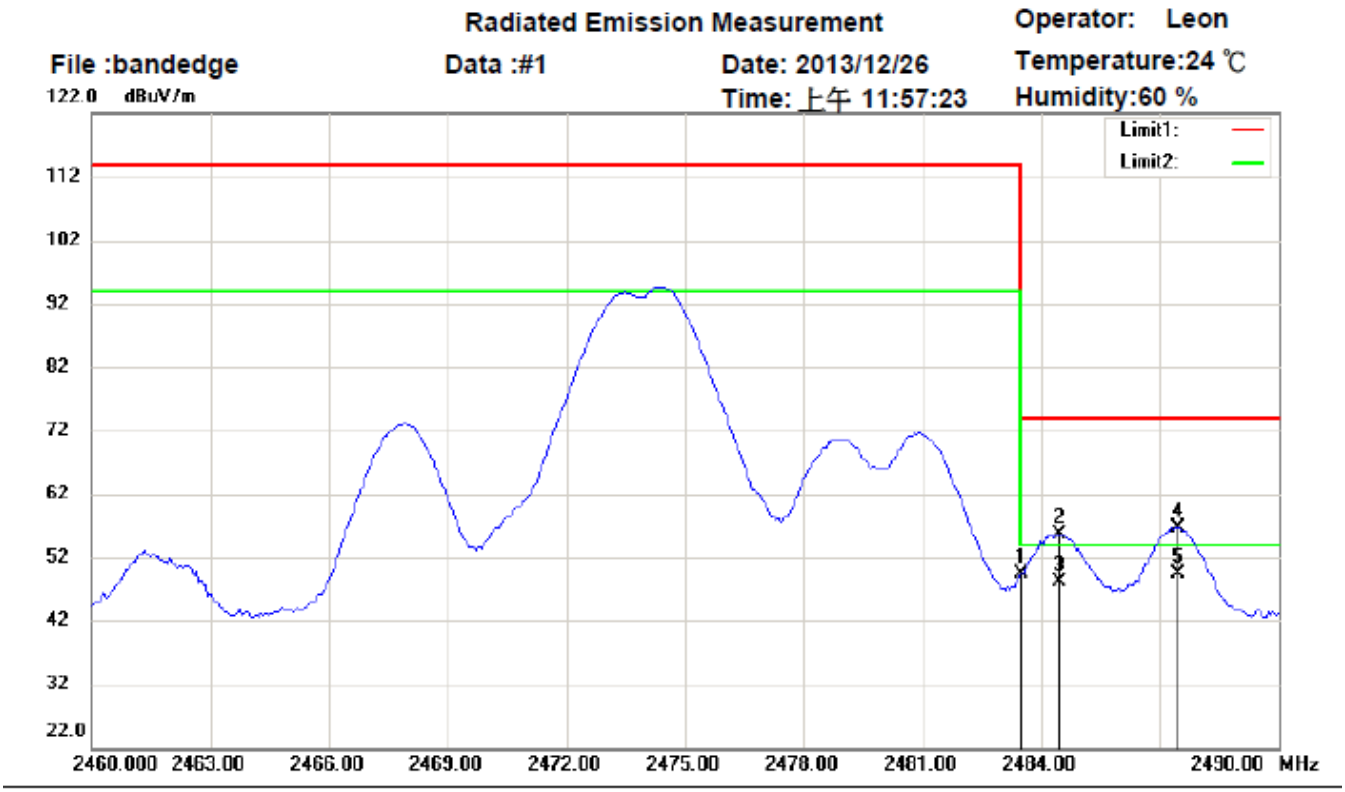


Site : Chamber_01
Condition : FCC 15.249 PK (Bandedge)
EUT : W6M21401-13763
M/N: RF-7550L
Test Mode : 2408MHz
Note :

Polarization: *Vertical*
Power : 3VDC
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
	2400.000	8.60	peak	37.50	46.10	74.00	100	90	-27.90	
	2395.170	15.43	peak	37.49	52.92	74.00	100	90	-21.08	
*	2395.170	8.22	AVG	37.49	45.71	54.00	100	90	-8.29	

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

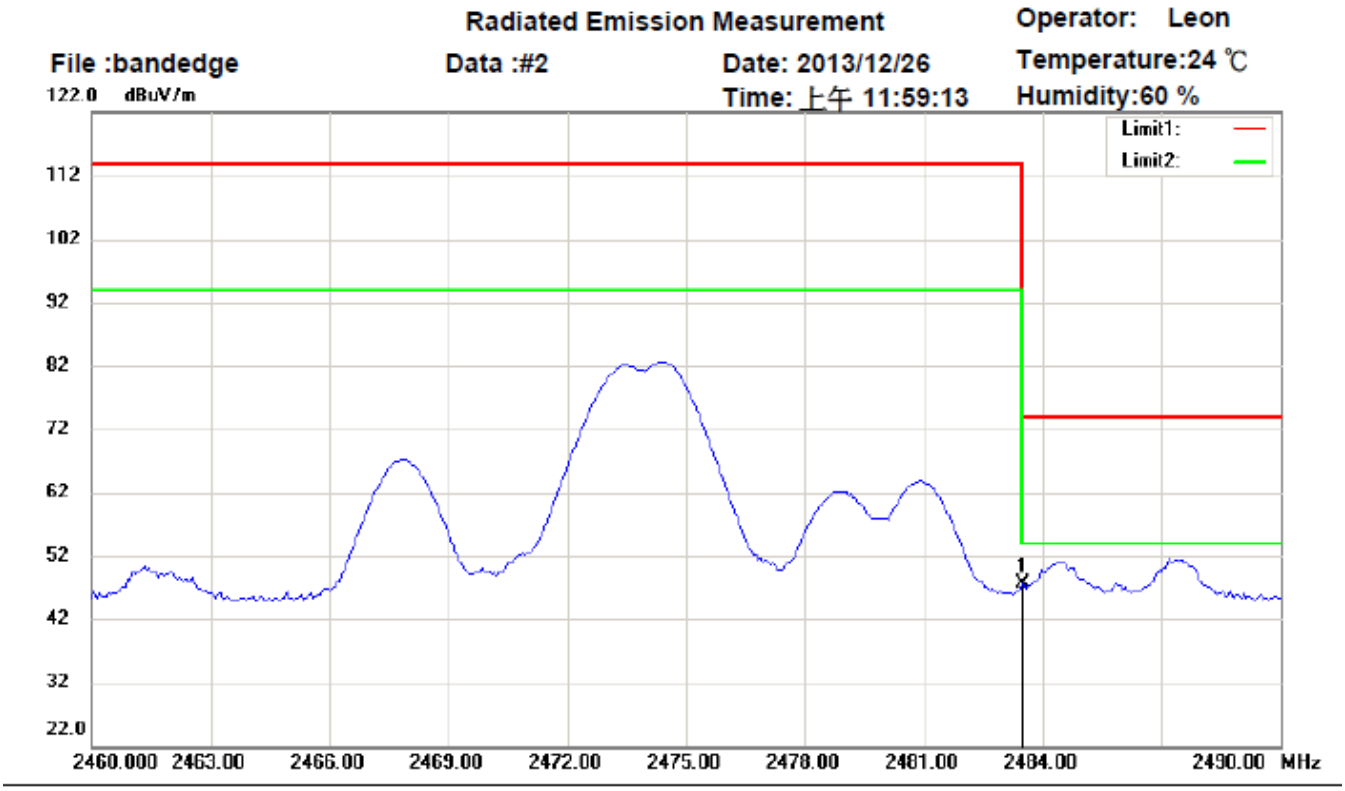


Site : Chamber_01
Condition : FCC 15.249 PK (Bandedge)
EUT : W6M21401-13763
M/N: RF-7550L
Test Mode : 2474MHz
Note :

Polarization: *Horizontal*
Power : 3VDC
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
	2483.500	11.54	peak	37.82	49.36	74.00	100	20	-24.64	
	2484.409	17.92	peak	37.82	55.74	74.00	100	20	-18.26	
	2484.409	10.32	AVG	37.82	48.14	54.00	100	20	-5.86	
	2487.415	18.85	peak	37.83	56.68	74.00	100	20	-17.32	
*	2487.415	11.56	AVG	37.83	49.39	54.00	100	20	-4.61	

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A



Site : Chamber_01
Condition : FCC 15.249 PK (Bandedge)
EUT : W6M21401-13763
M/N: RF-7550L
Test Mode : 2474MHz
Note :

Polarization: *Vertical*
Power : 3VDC
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
*	2483.500	9.79	peak	37.82	47.61	74.00	100	85	-26.39	

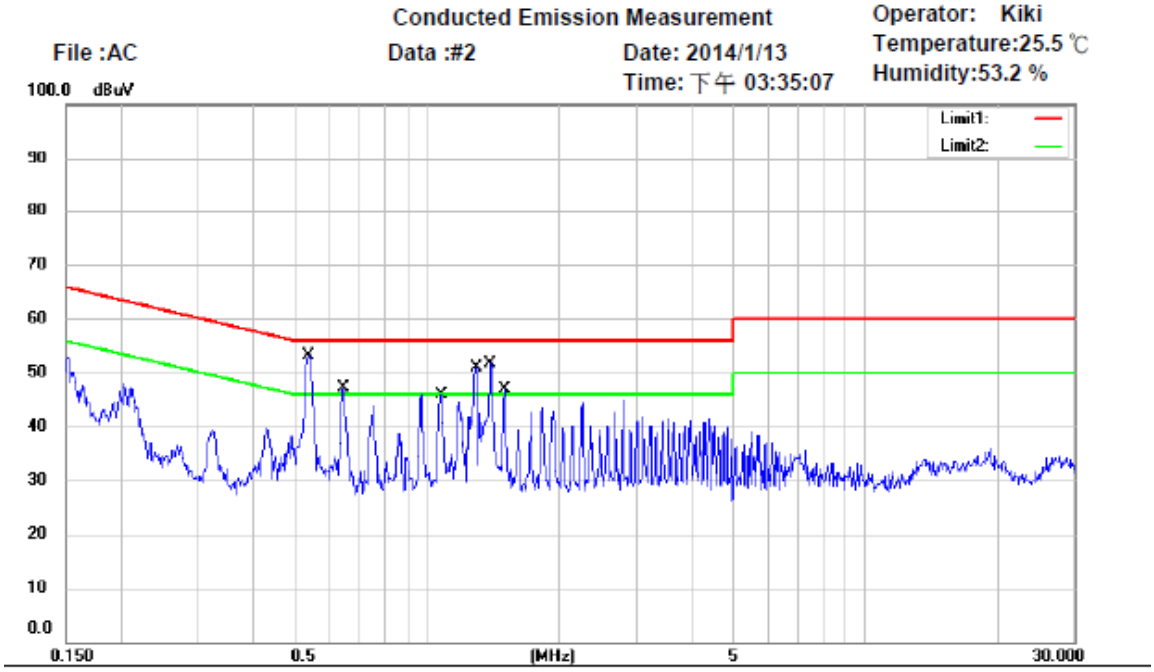
Limit:

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

3.8 Power Line Conducted Emission

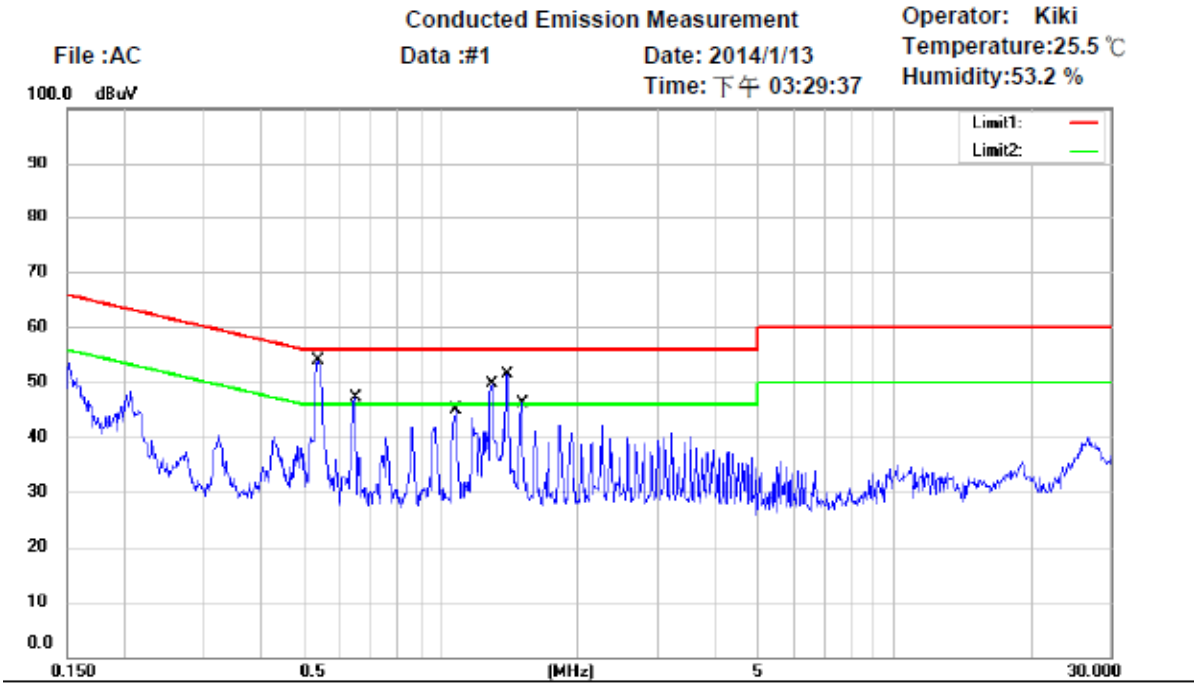
For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision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



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP) Phase: N
EUT : W6M21401-13763 Power : 120VAC
M/N: RF-7550L
Test Mode :
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5373	41.51	QP	9.67	51.18	56.00	-4.82	
	0.5373	23.36	AVG	9.67	33.03	46.00	-12.97	
	0.6440	35.20	QP	9.68	44.88	56.00	-11.12	
	0.6440	19.48	AVG	9.68	29.16	46.00	-16.84	
	1.0740	34.73	QP	9.69	44.42	56.00	-11.58	
	1.0740	21.36	AVG	9.69	31.05	46.00	-14.95	
	1.2894	35.74	QP	9.70	45.44	56.00	-10.56	
	1.2894	16.78	AVG	9.70	26.48	46.00	-19.52	
	1.3946	39.02	QP	9.70	48.72	56.00	-7.28	
	1.3946	23.19	AVG	9.70	32.89	46.00	-13.11	
	1.5024	35.07	QP	9.70	44.77	56.00	-11.23	
	1.5024	21.12	AVG	9.70	30.82	46.00	-15.18	

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21401-13763
Power : 120VAC
M/N: RF-7550L
Test Mode :
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5360	40.91	QP	9.66	50.57	56.00	-5.43	
	0.5360	22.55	AVG	9.66	32.21	46.00	-13.79	
	0.6462	34.22	QP	9.67	43.89	56.00	-12.11	
	0.6462	17.30	AVG	9.67	26.97	46.00	-19.03	
	1.0760	33.25	QP	9.69	42.94	56.00	-13.06	
	1.0760	17.59	AVG	9.69	27.28	46.00	-18.72	
	1.2906	34.63	QP	9.70	44.33	56.00	-11.67	
	1.2906	14.62	AVG	9.70	24.32	46.00	-21.68	
	1.3961	39.14	QP	9.70	48.84	56.00	-7.16	
	1.3961	21.80	AVG	9.70	31.50	46.00	-14.50	
	1.5020	34.65	QP	9.70	44.35	56.00	-11.65	
	1.5020	18.98	AVG	9.70	28.68	46.00	-17.32	

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.

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-RE 045

Appendix

Measurement diagrams

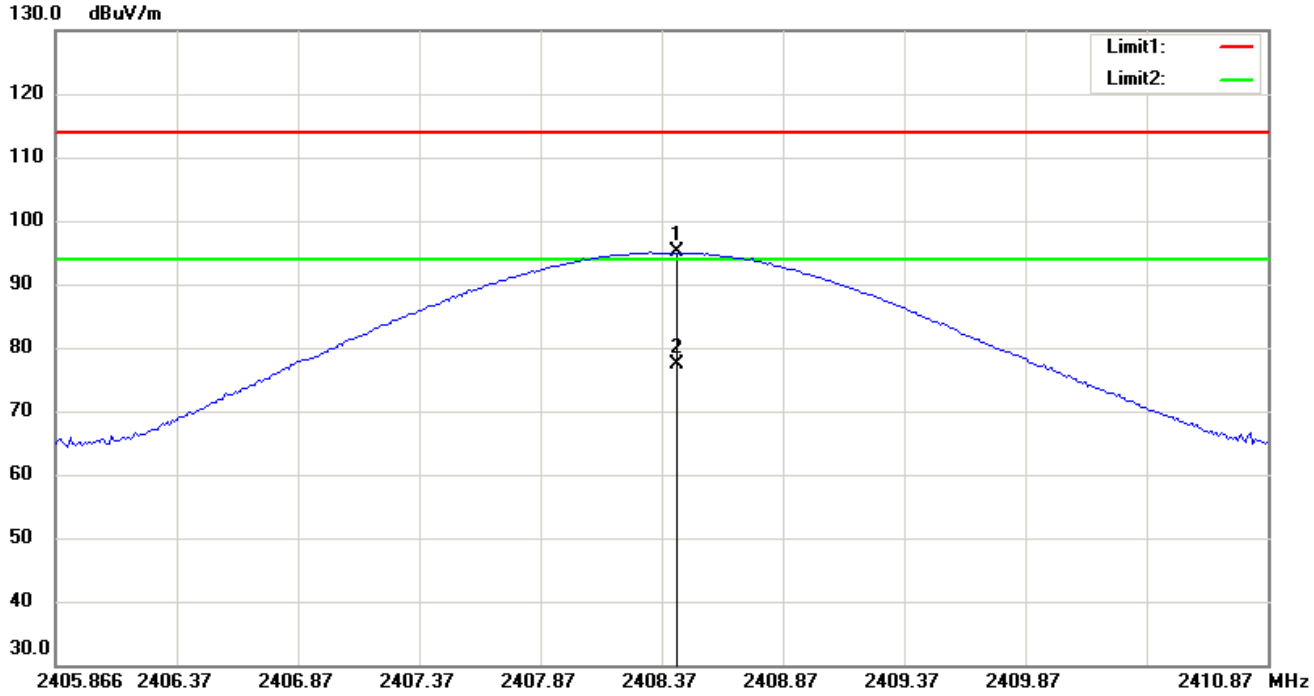
1. Fundamental Field Strength
2. Spurious Emissions radiated

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

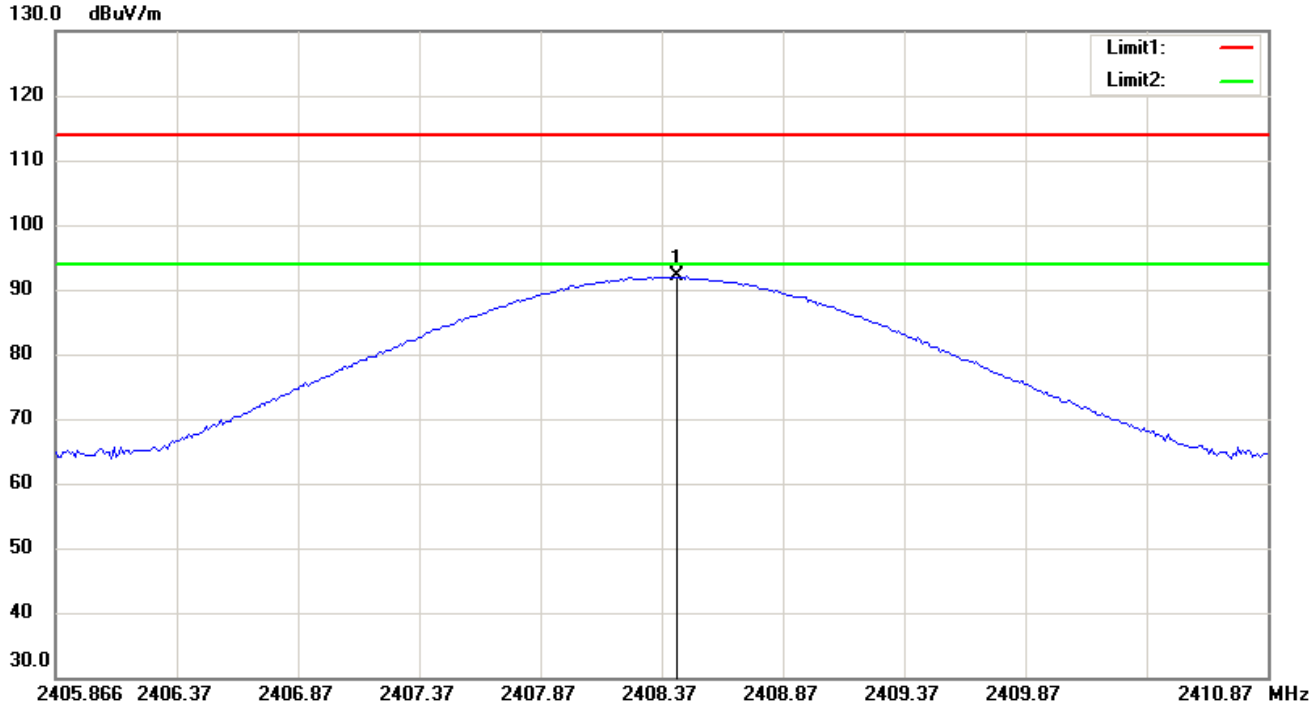
Fundamental Field Strength

2408 MHz

Antenna Polarization H



Antenna Polarization V



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

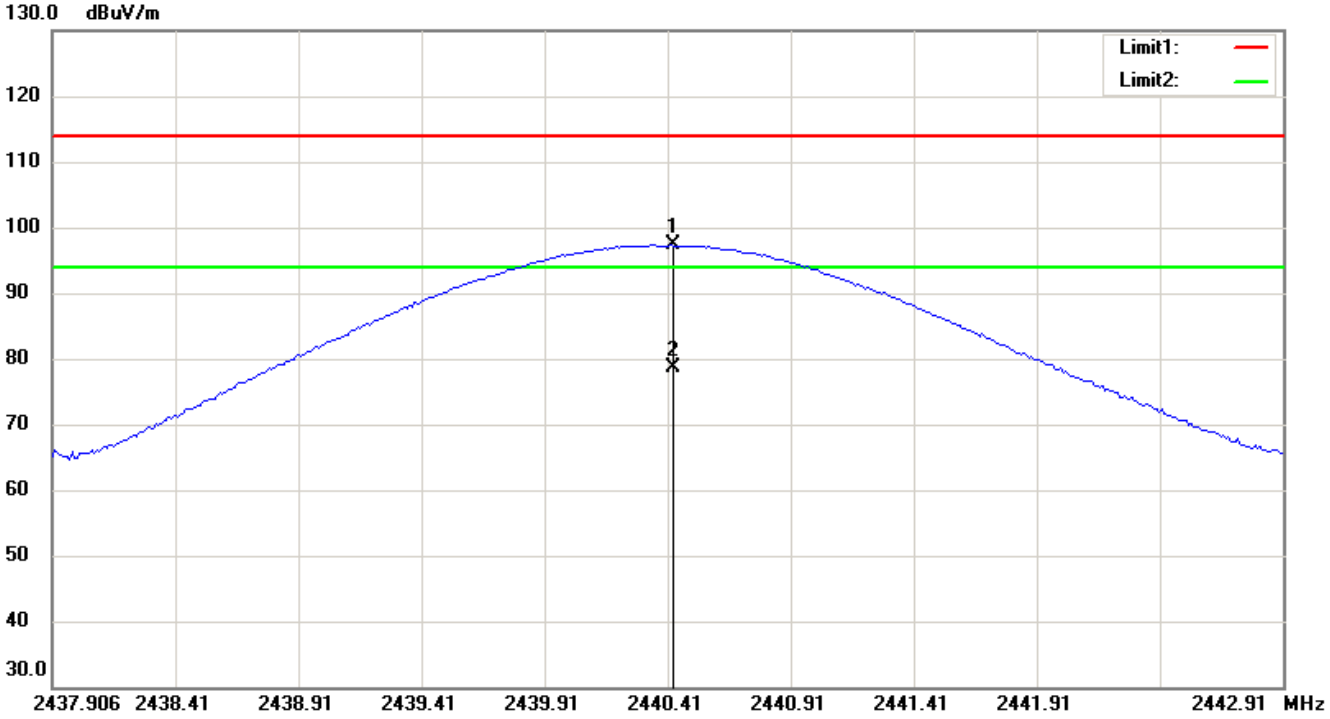
Note:

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 fundamental field strength test data of this test report.**

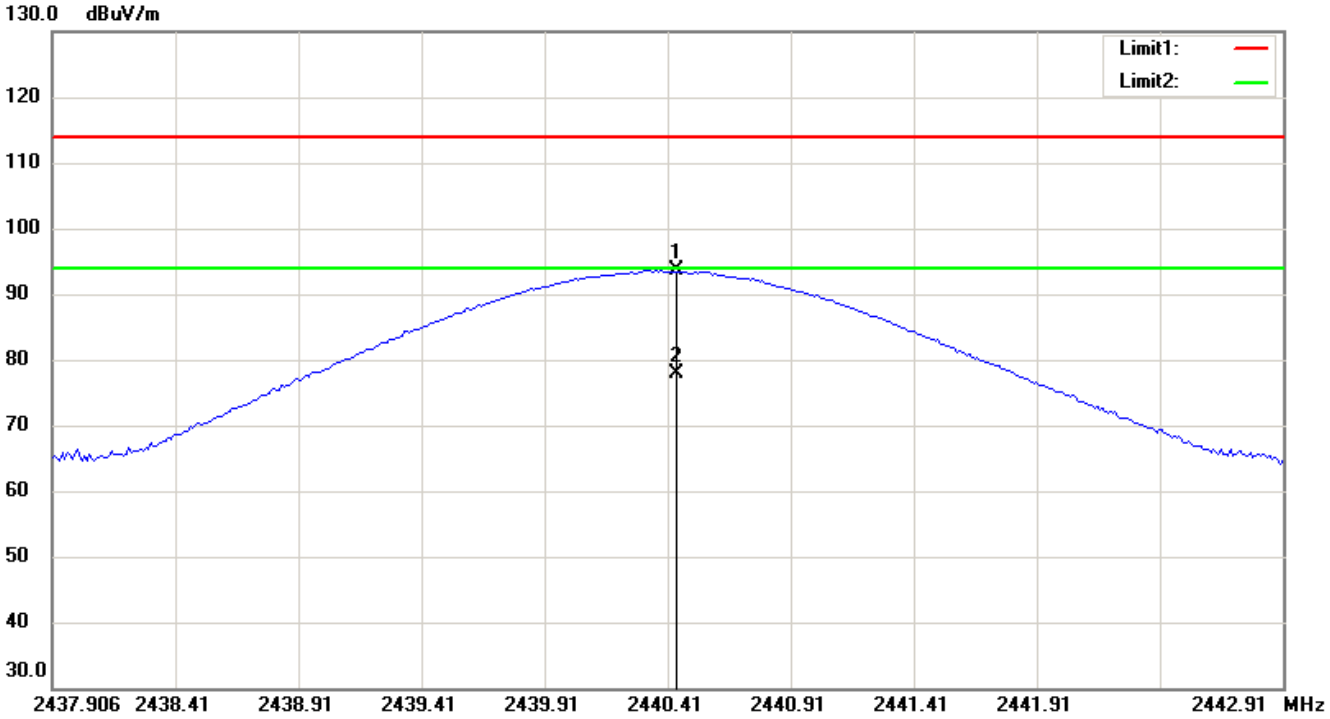
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

2440 MHz

Antenna Polarization H



Antenna Polarization V



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

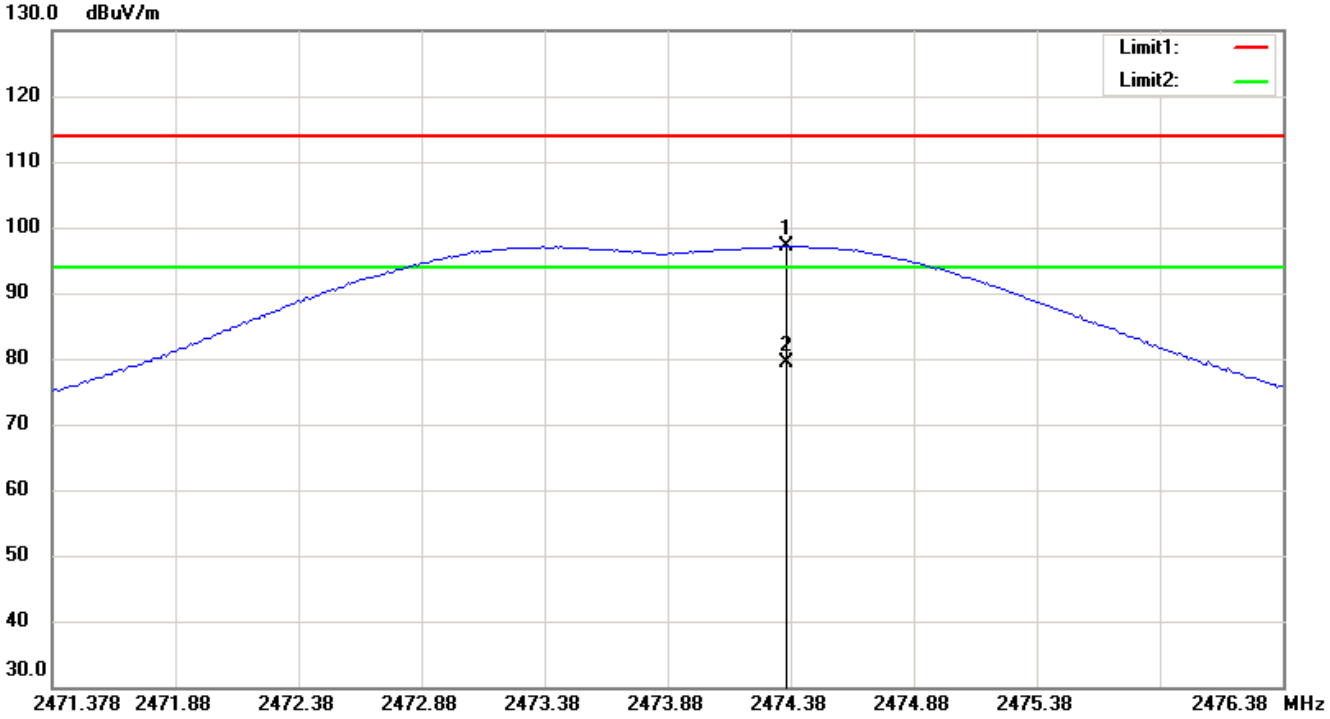
Note:

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 fundamental field strength test data of this test report.**

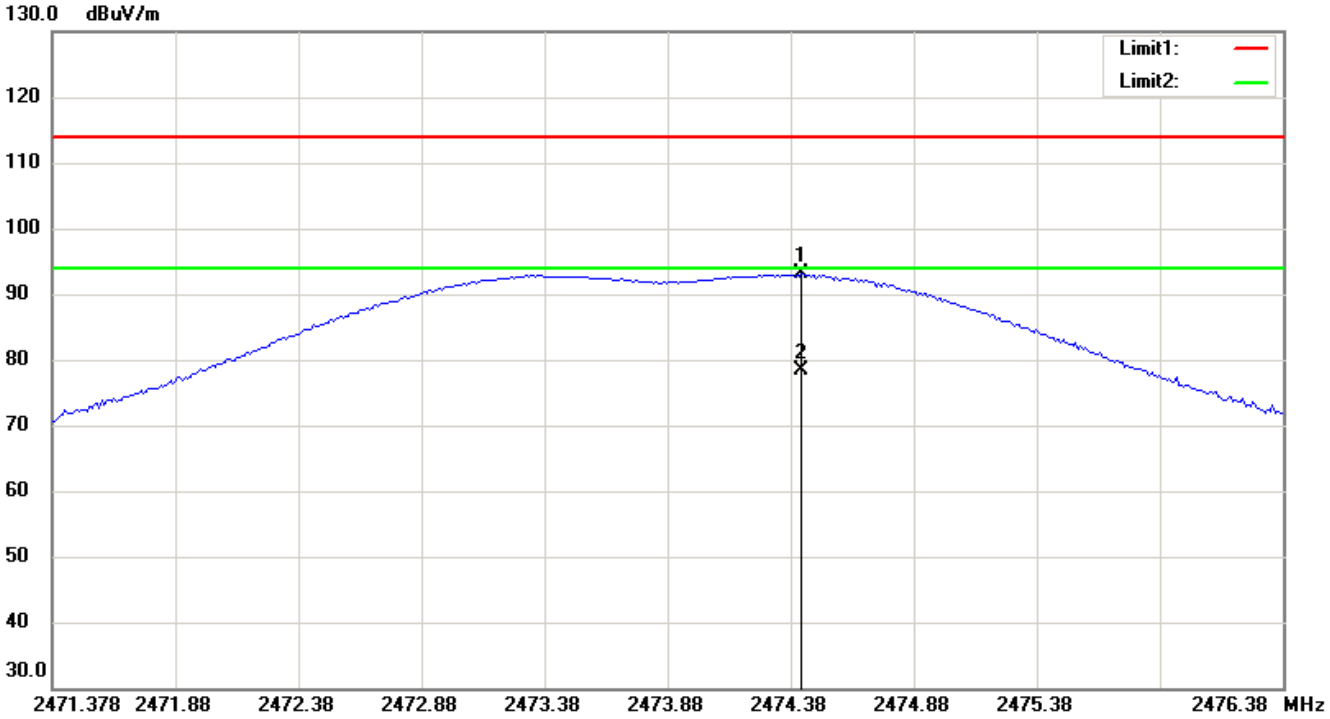
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

2474 MHz

Antenna Polarization H



Antenna Polarization V



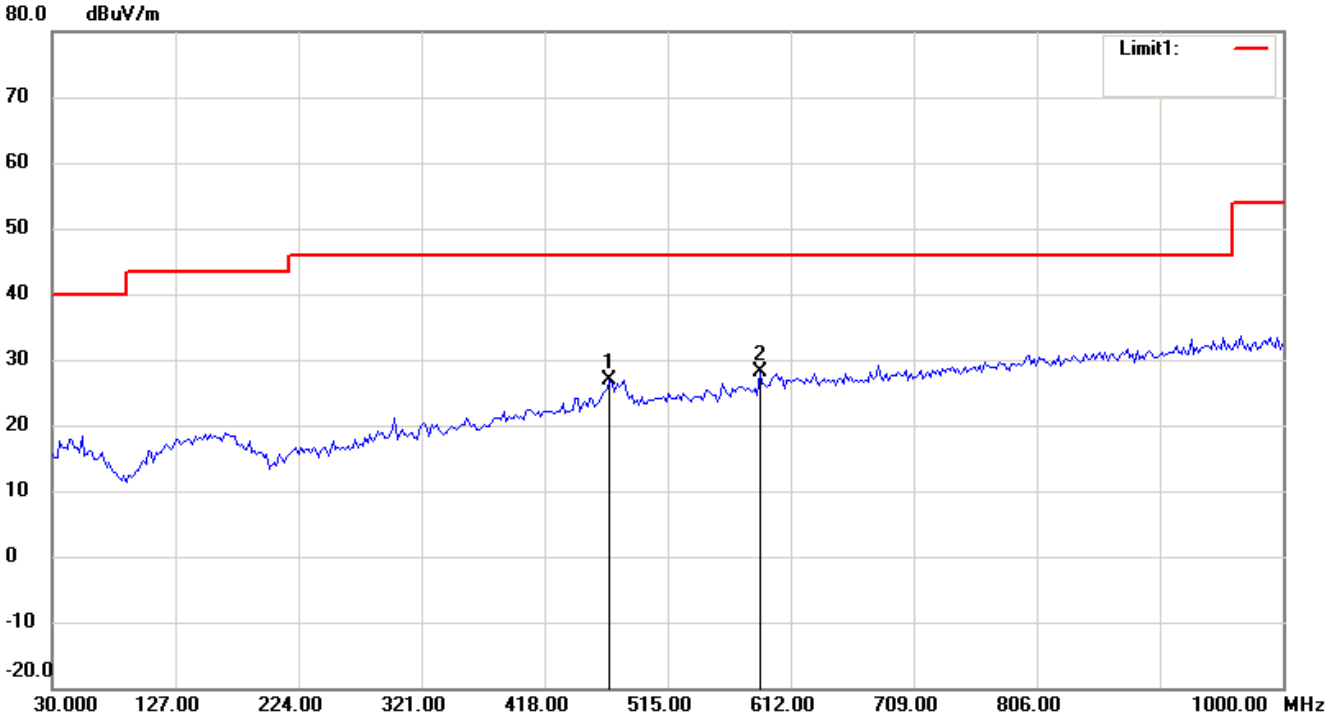
Up Line: Peak Limit Line Down Line: Ave Limit Line

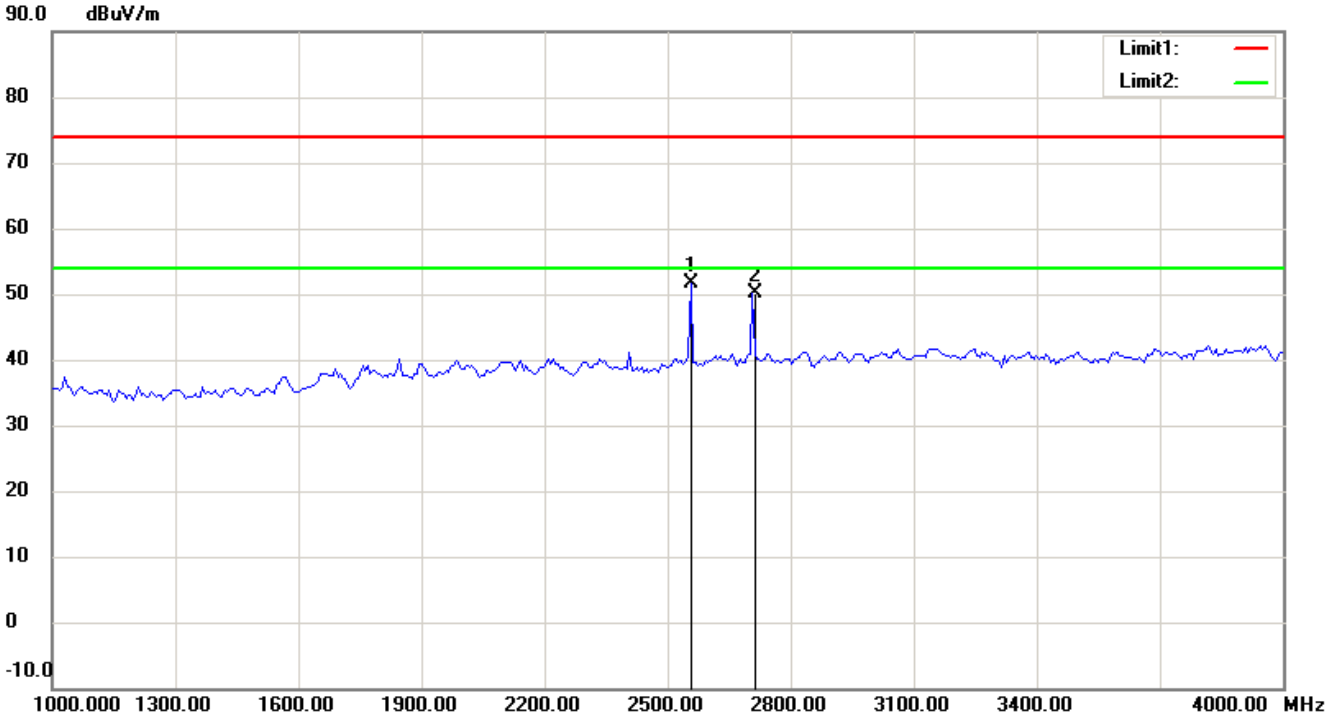
Note:

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 fundamental field strength test data of this test report.**

Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

Spurious Emissions radiated_ Transmitter
TX_2408 MHz
Antenna Polarization H

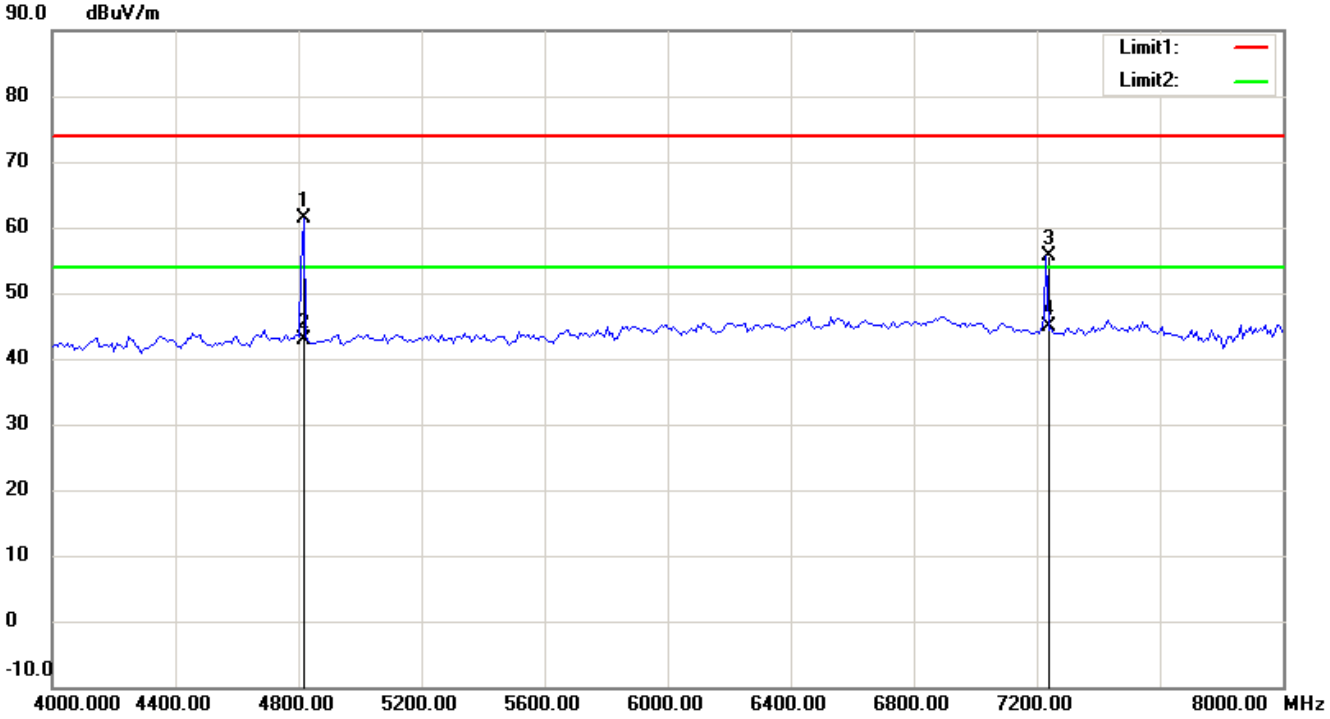


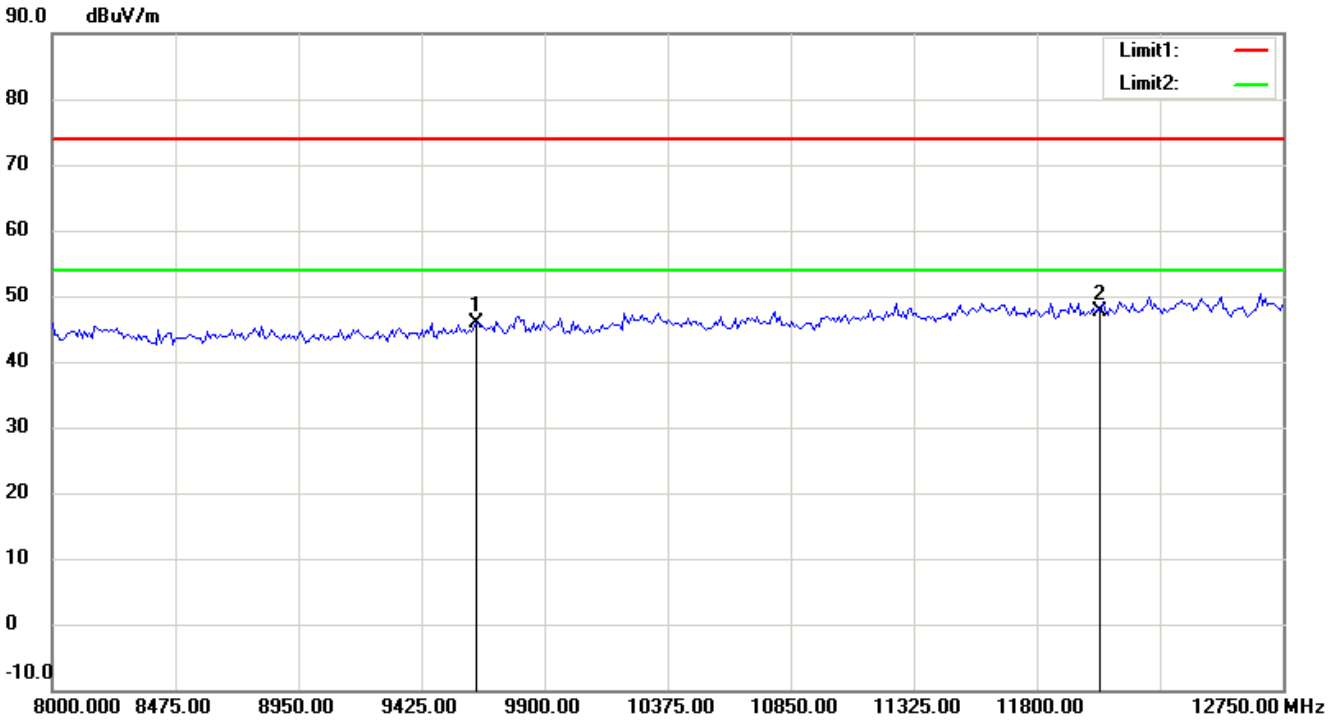


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21401-13763-C-1
FCC ID: UJ9-7550A

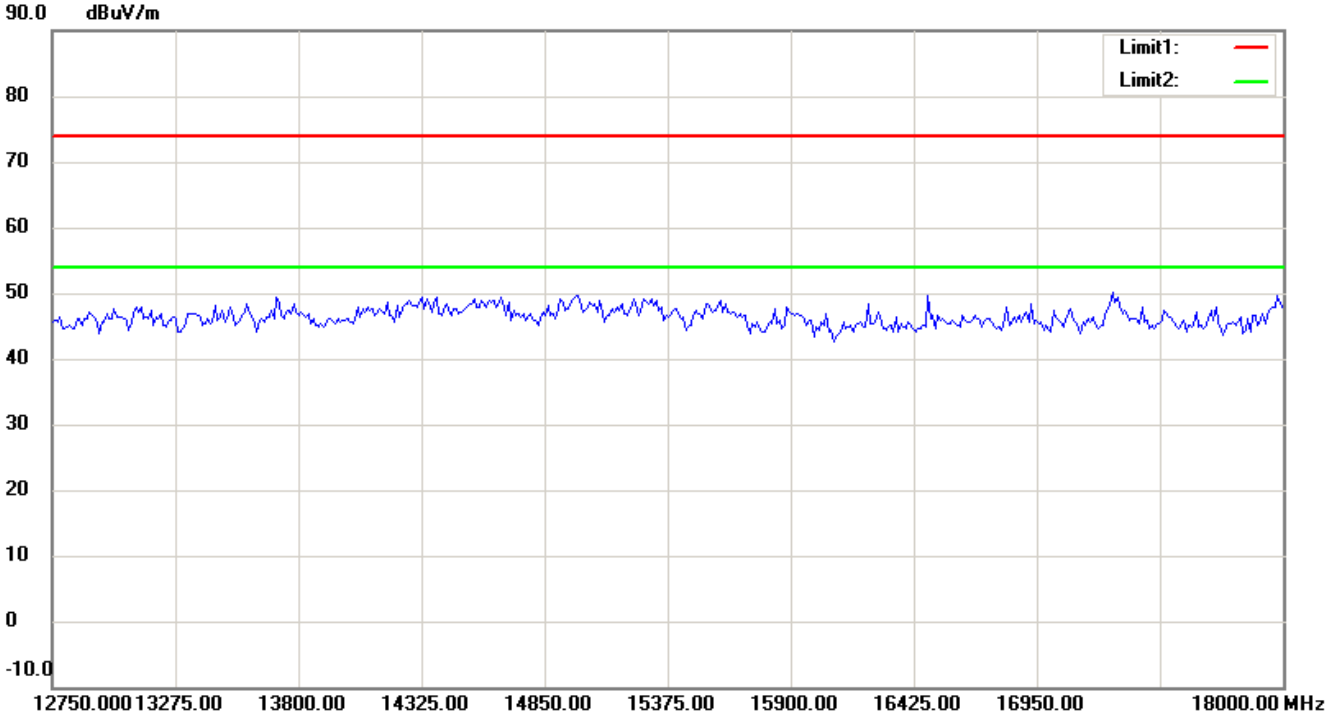


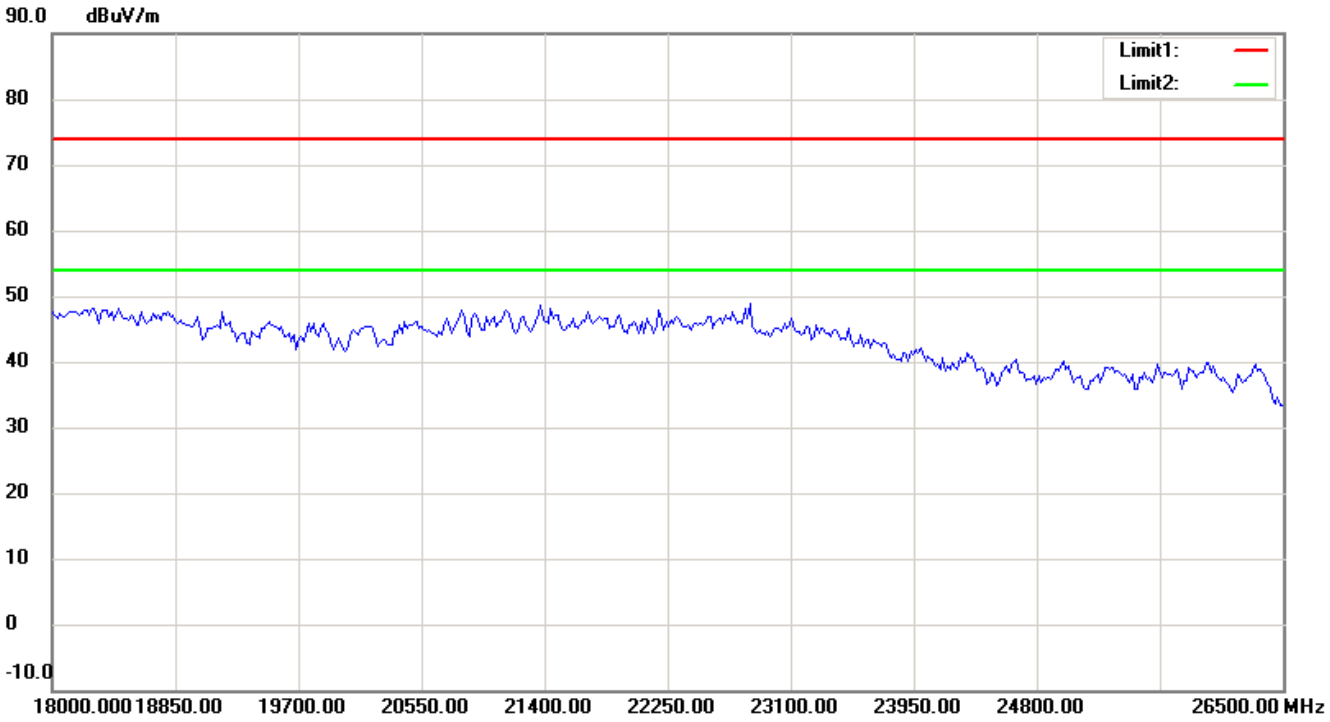


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21401-13763-C-1
FCC ID: UJ9-7550A



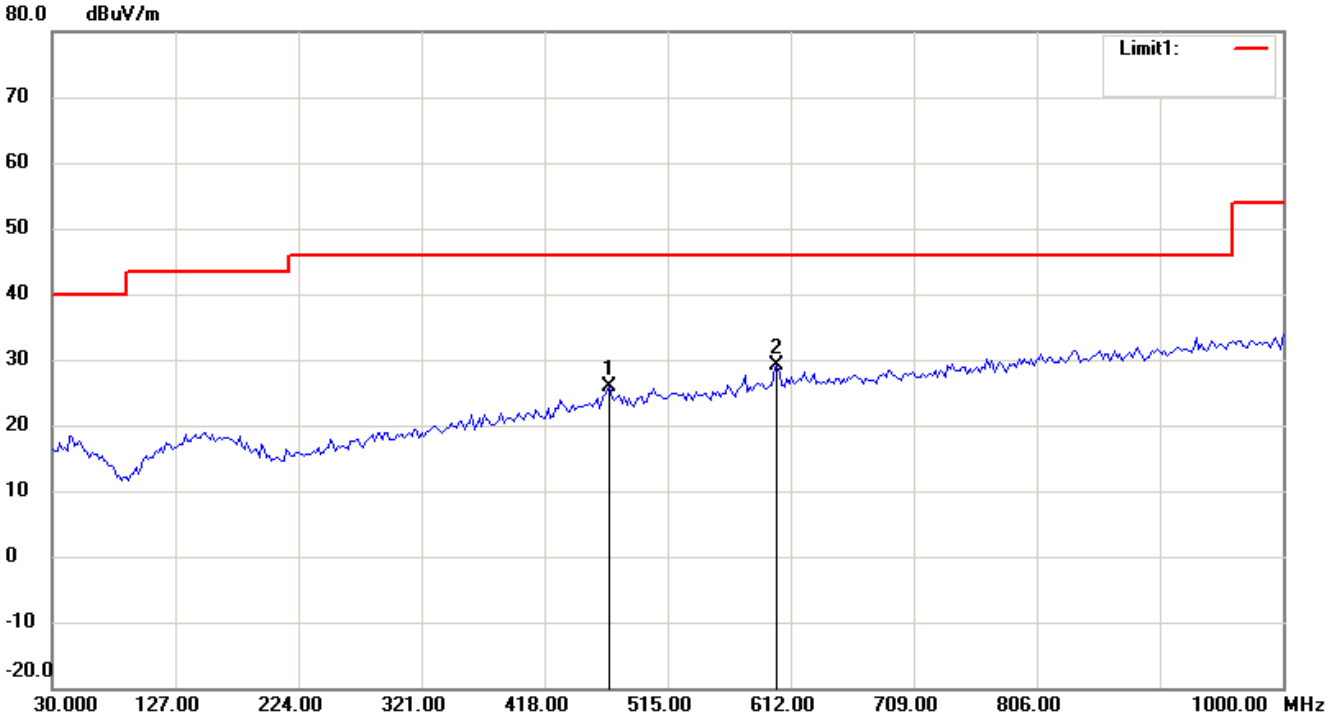


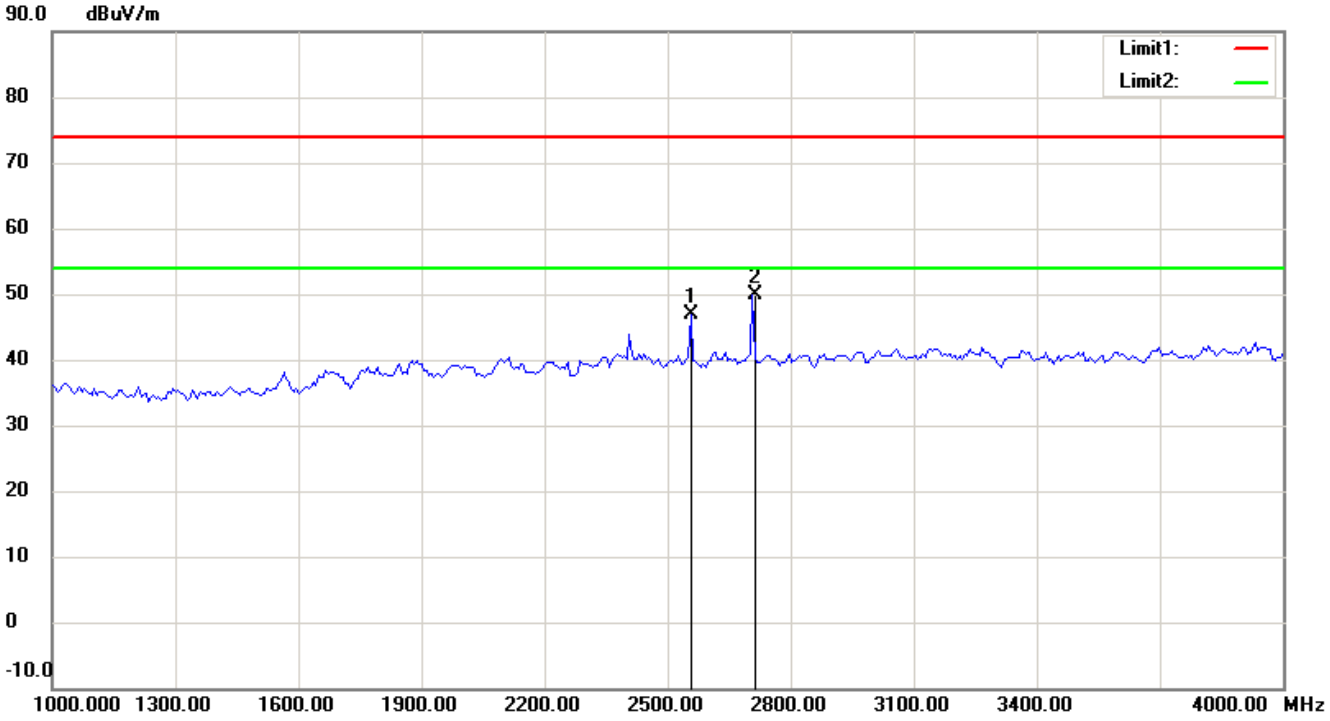
Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21401-13763-C-1
FCC ID: UJ9-7550A

Antenna Polarization V

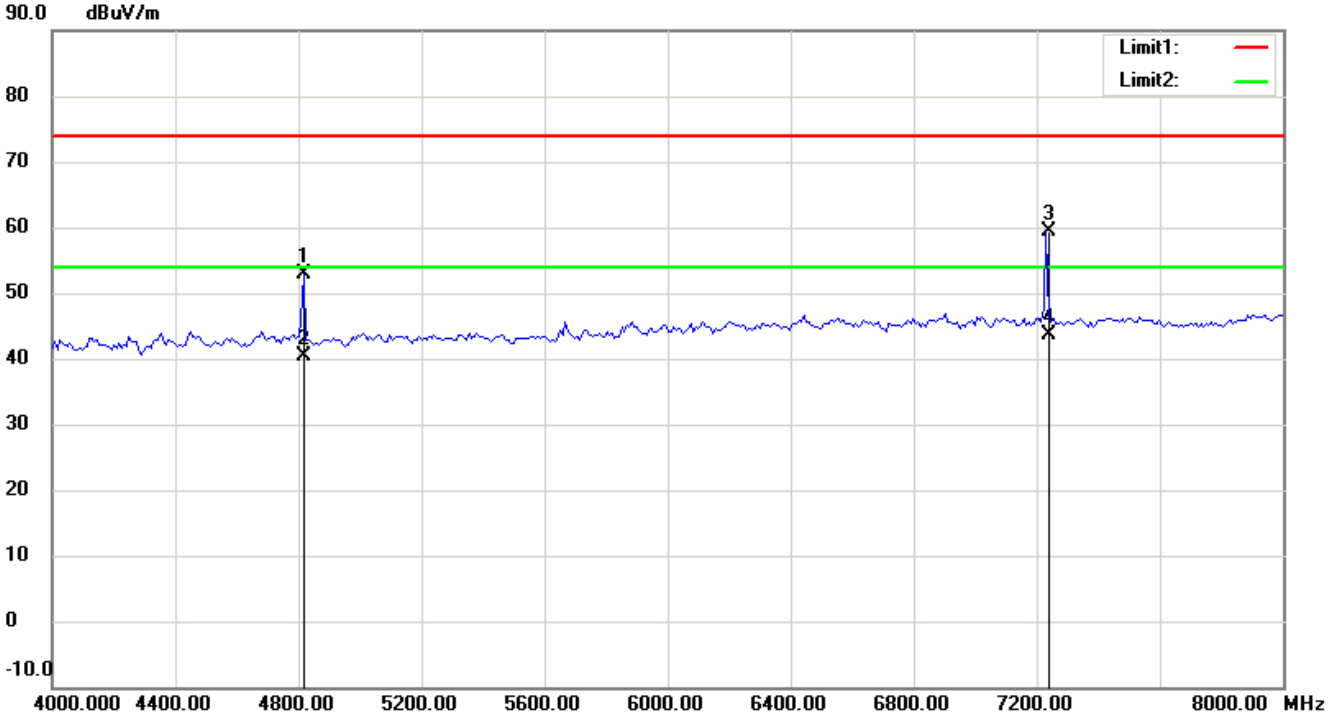


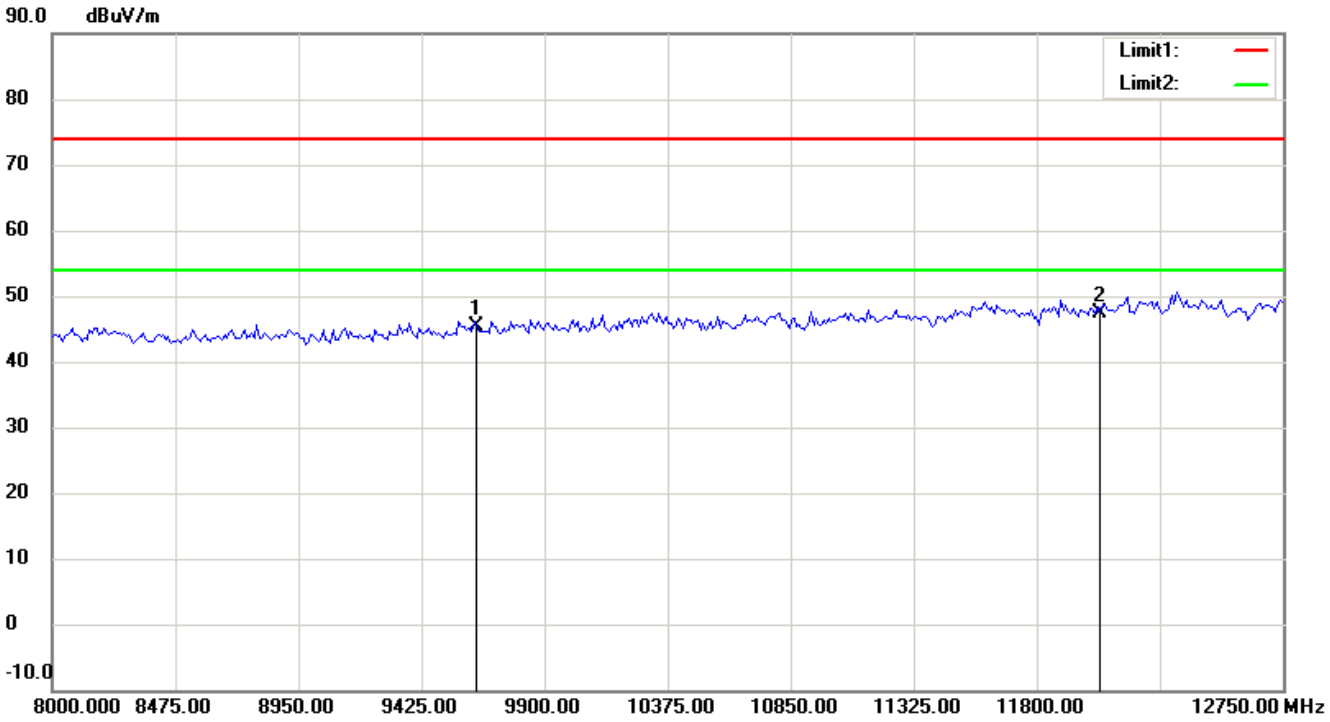


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21401-13763-C-1
FCC ID: UJ9-7550A





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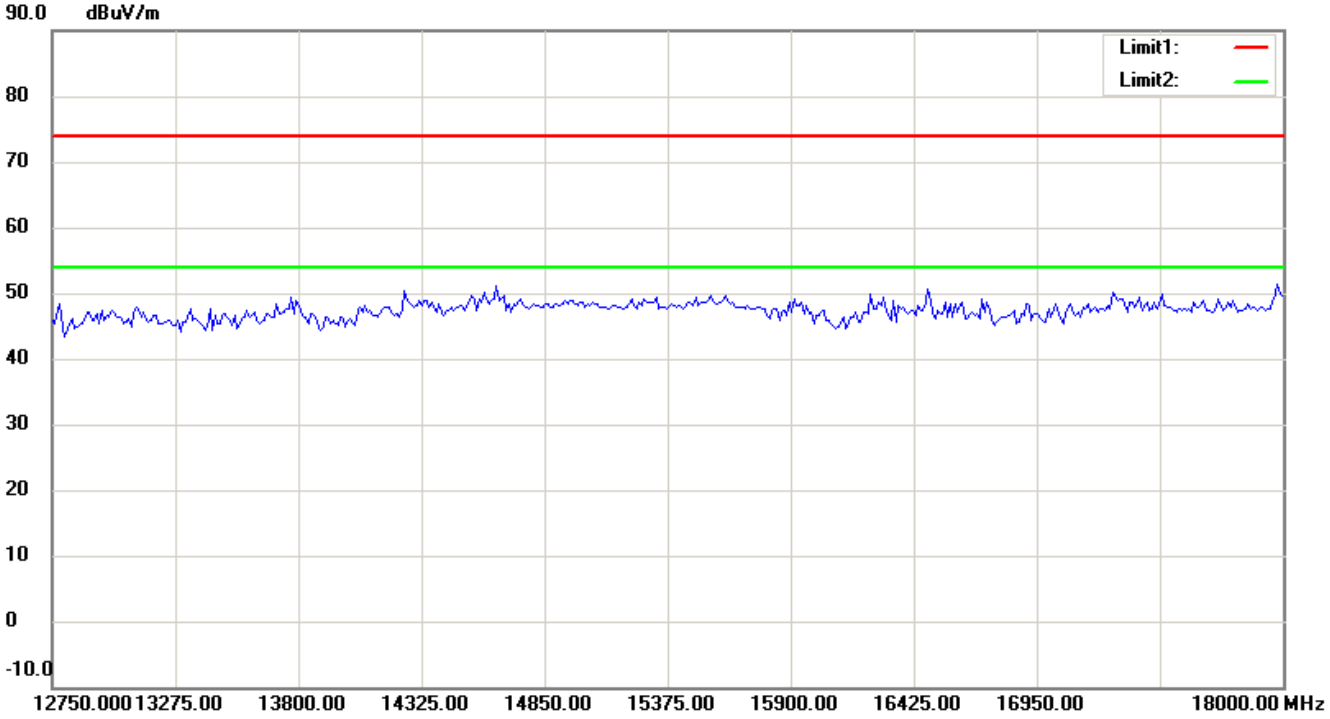
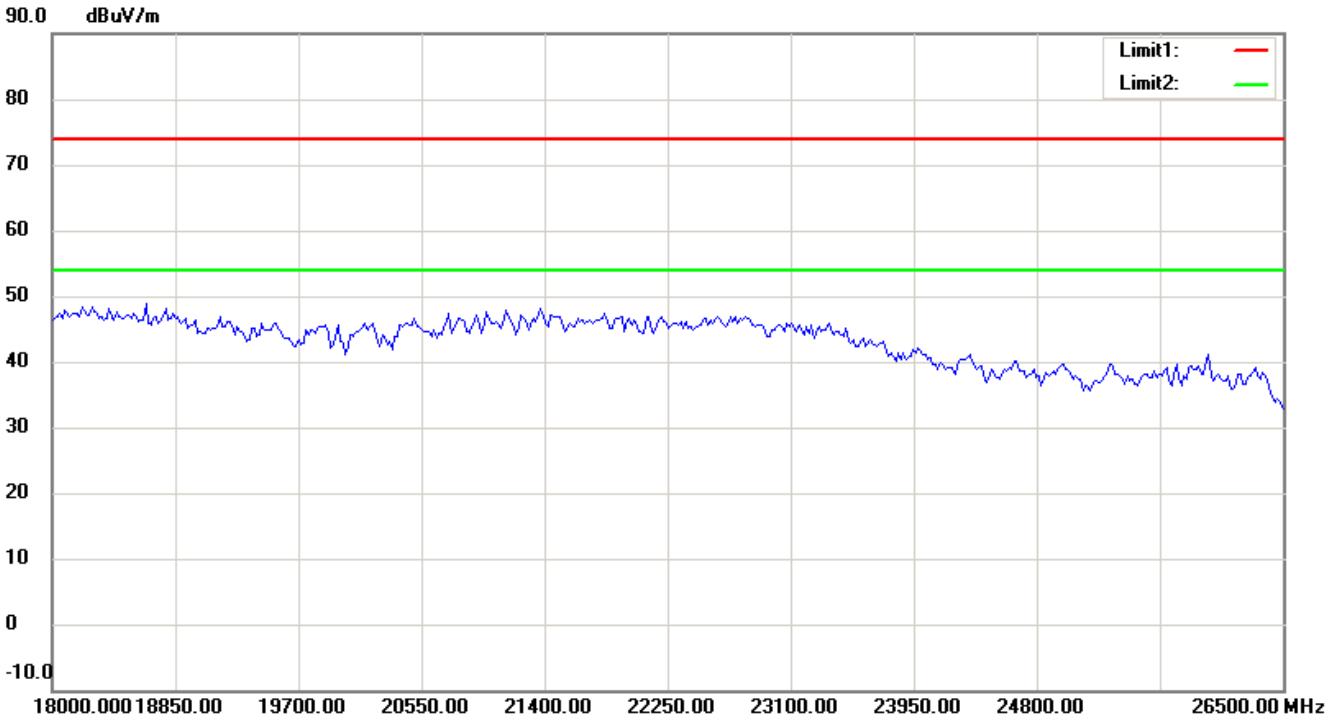
FCC ID: UJ9-7550A





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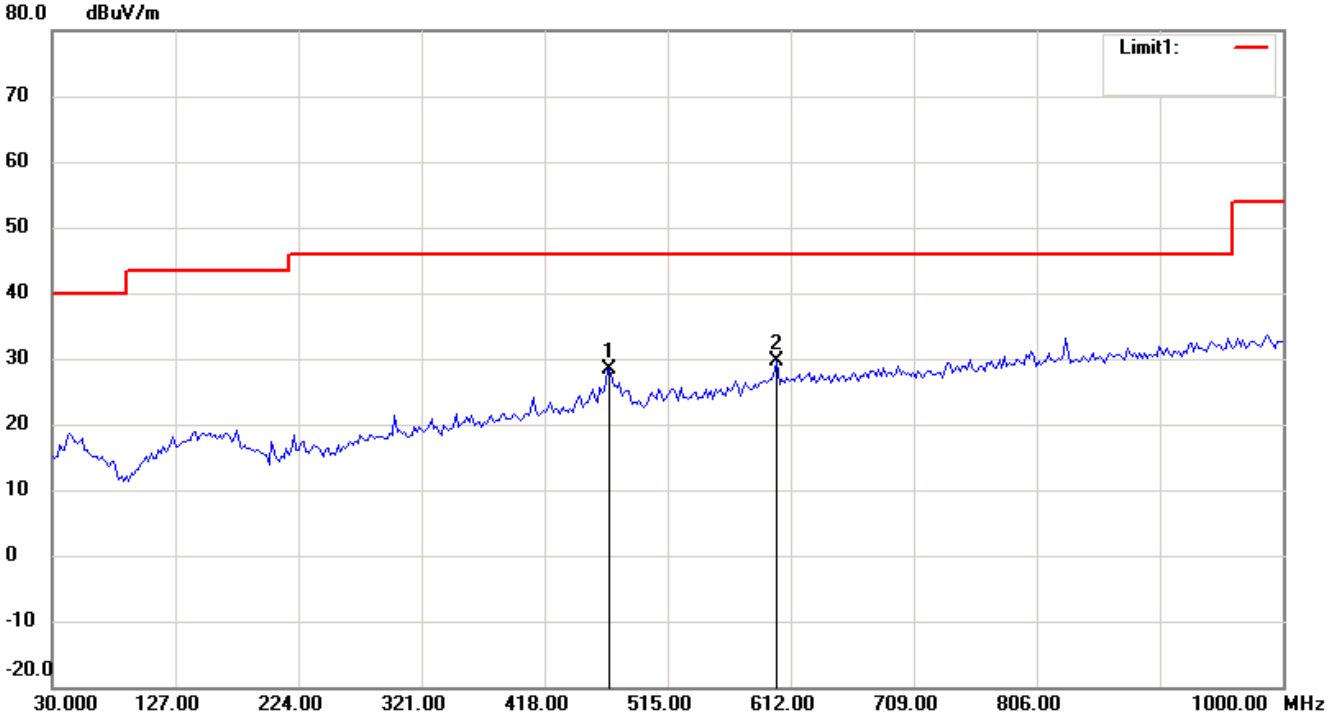
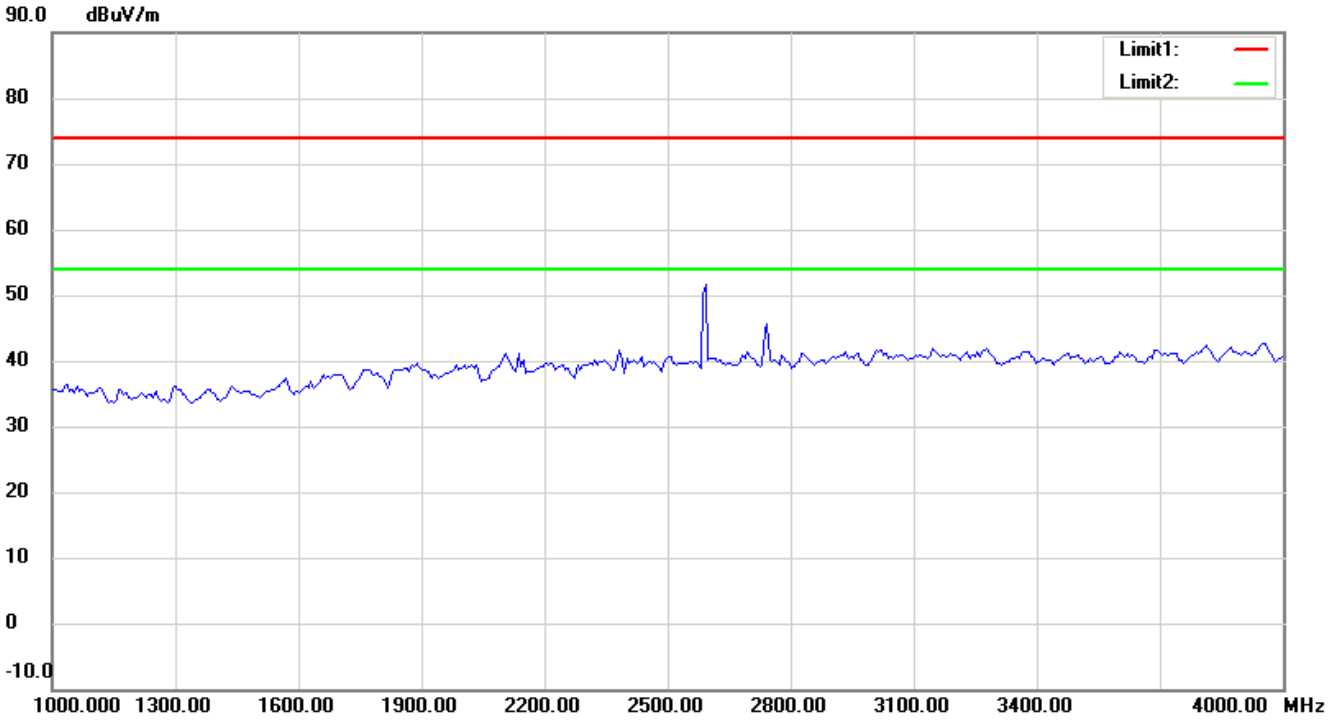
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

TX_2440 MHz

Antenna Polarization H





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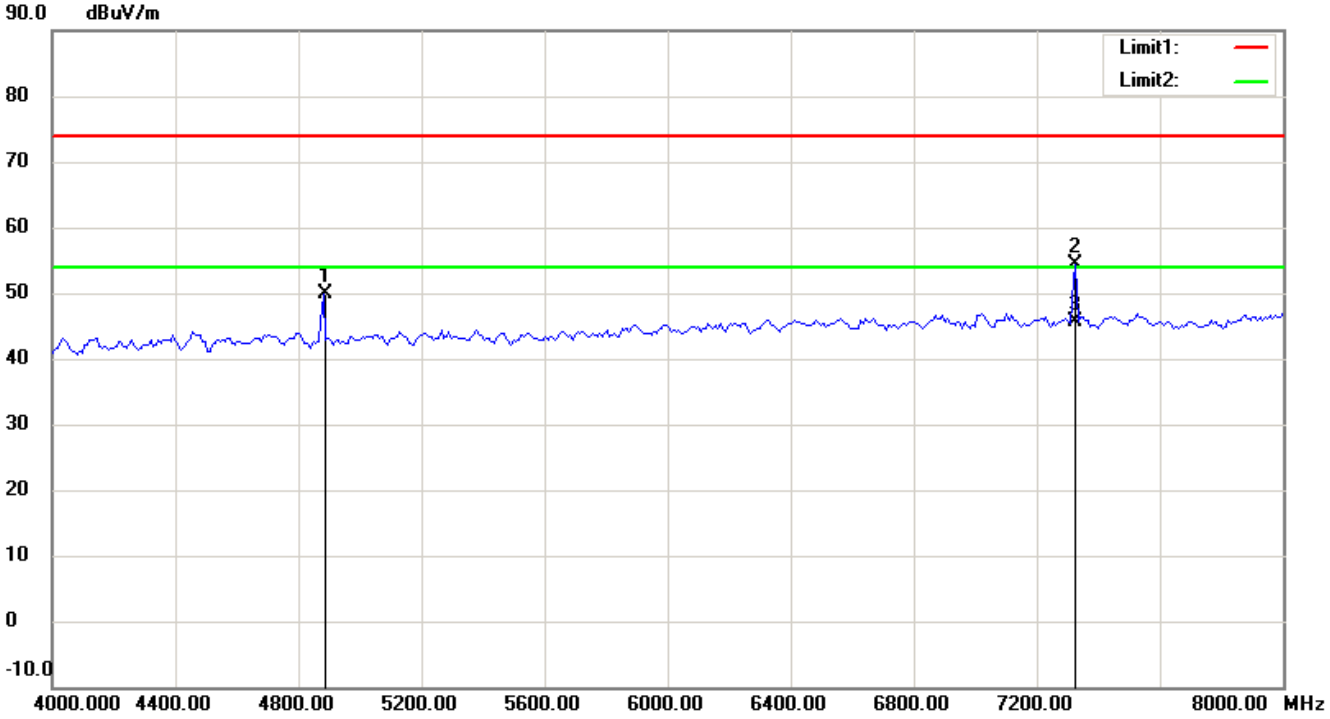
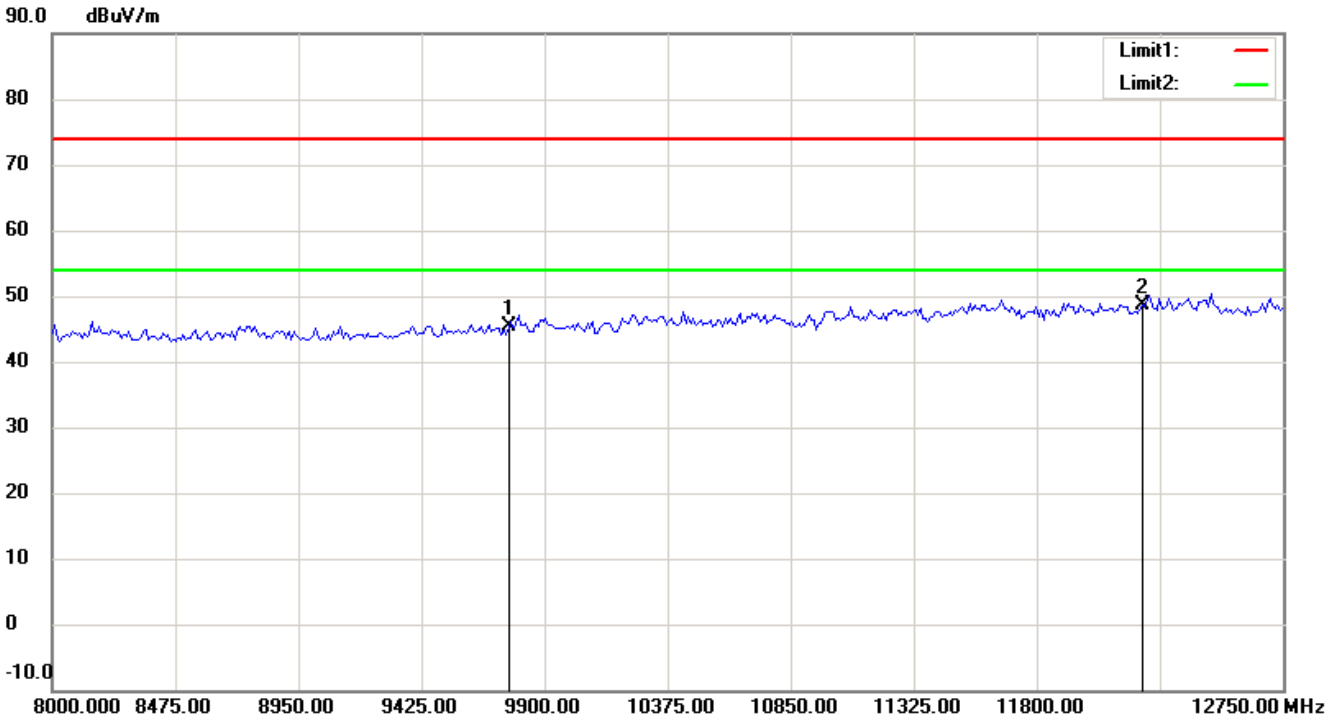
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A





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

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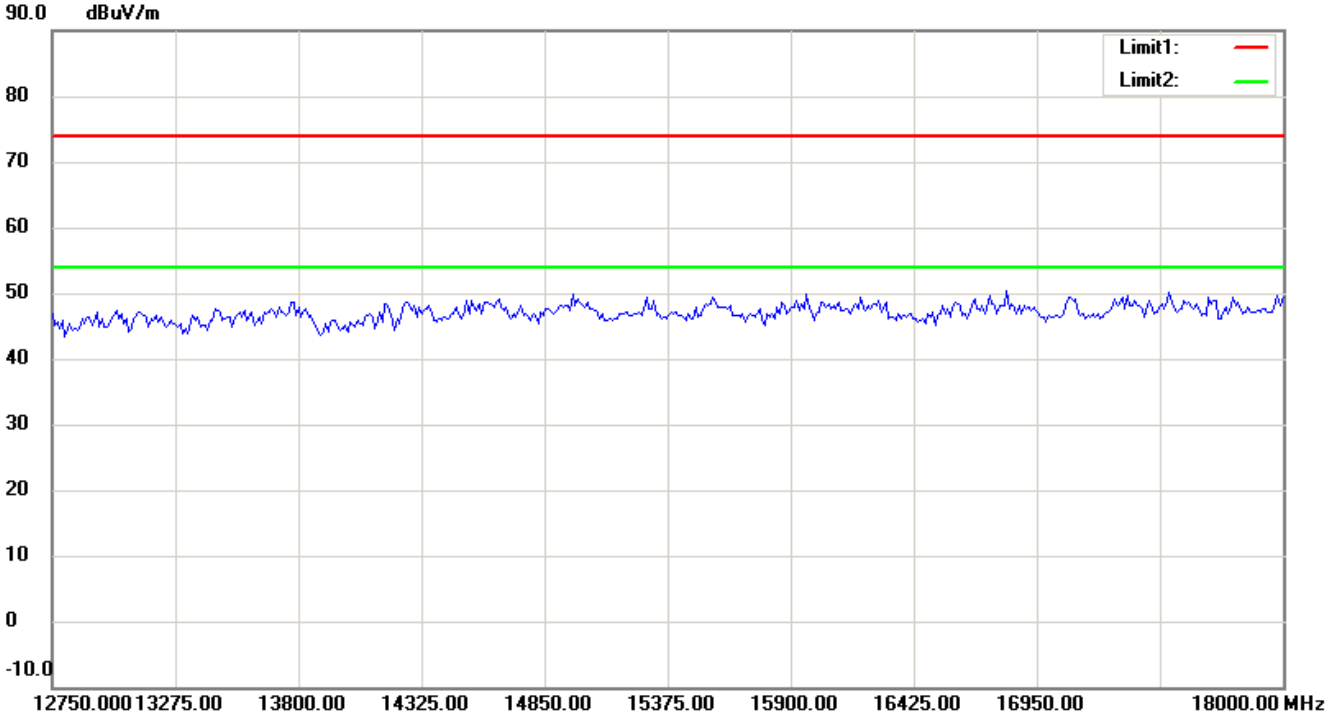
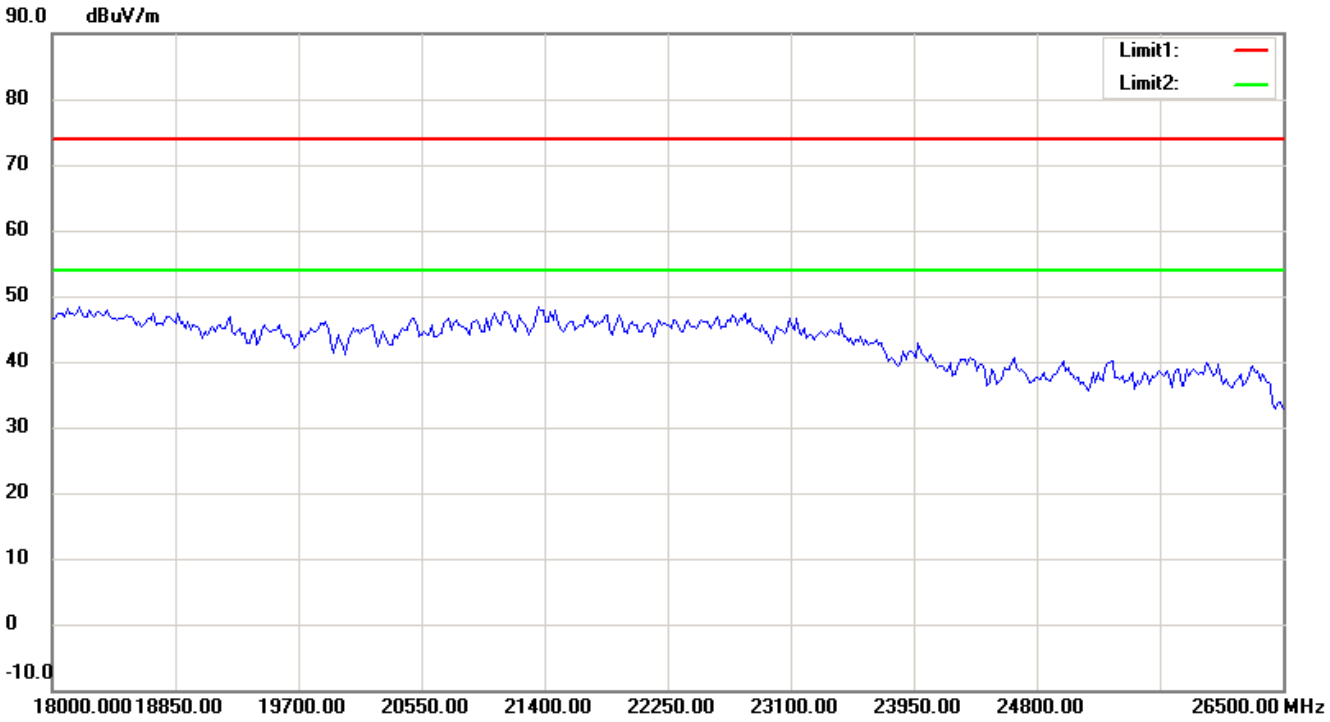
FCC ID: UJ9-7550A





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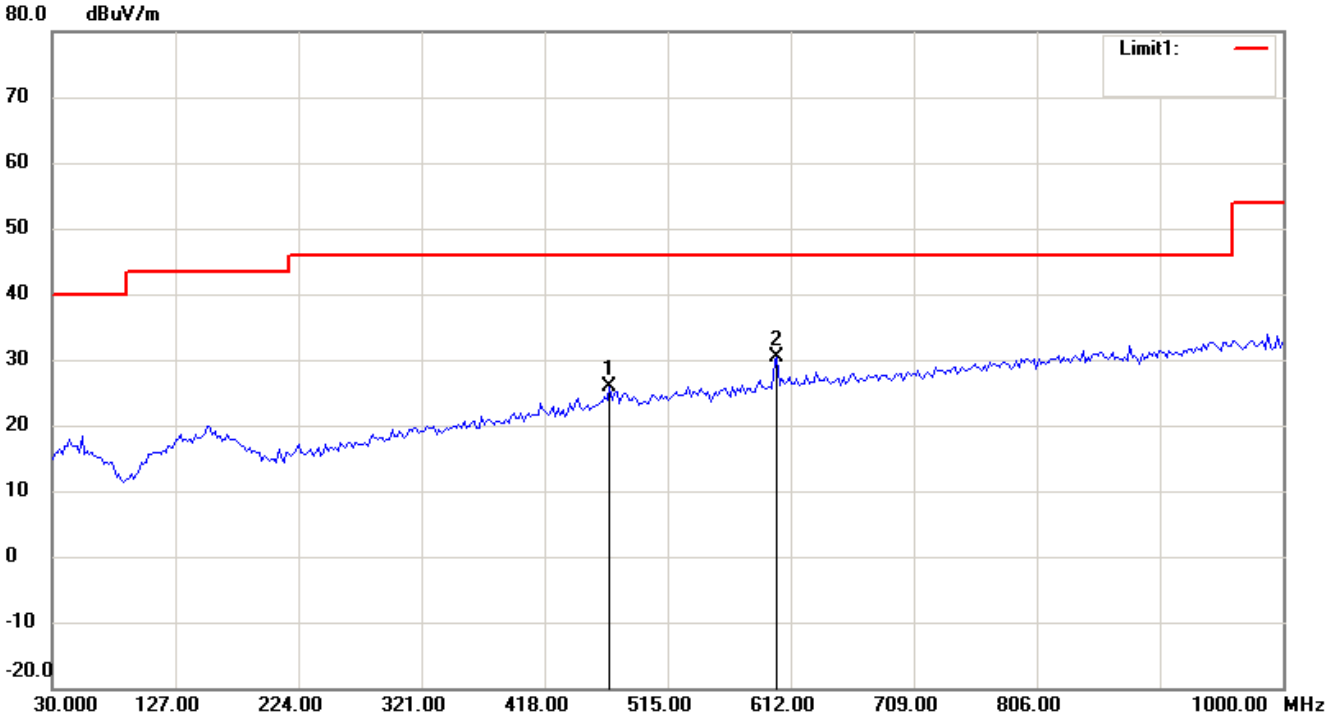
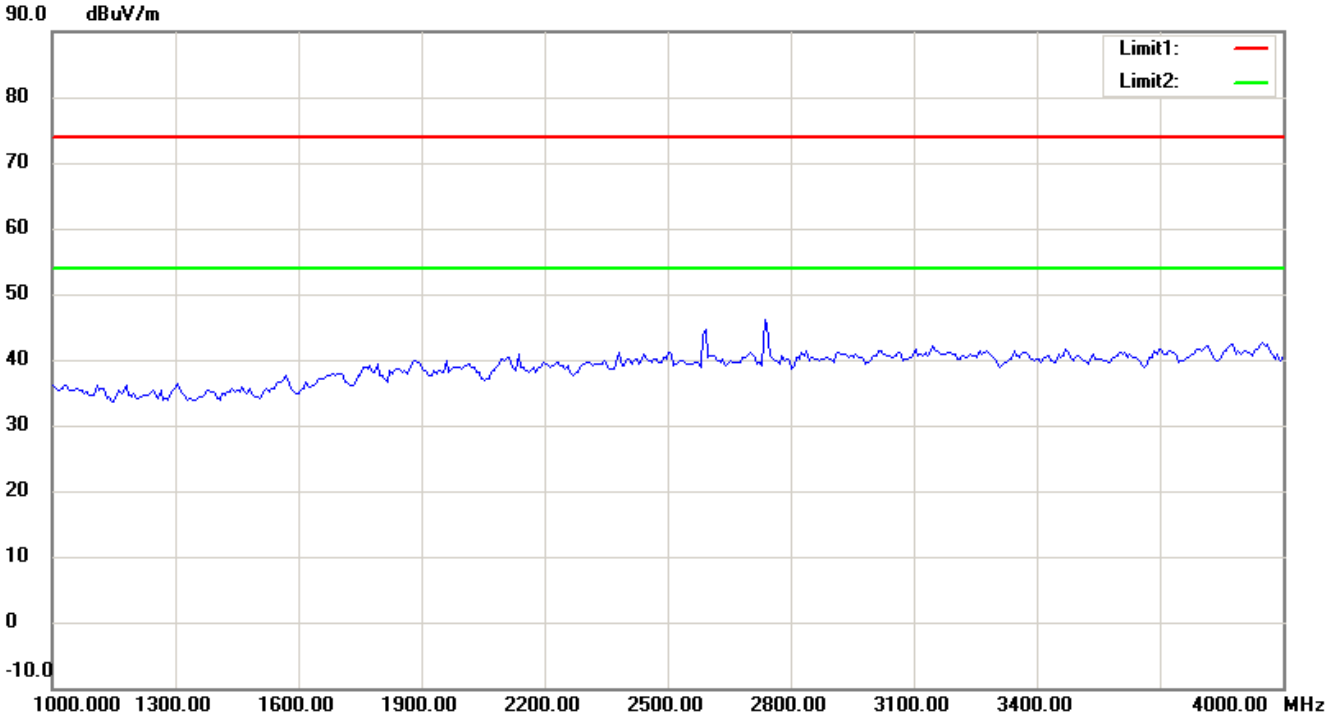
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

Antenna Polarization V





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

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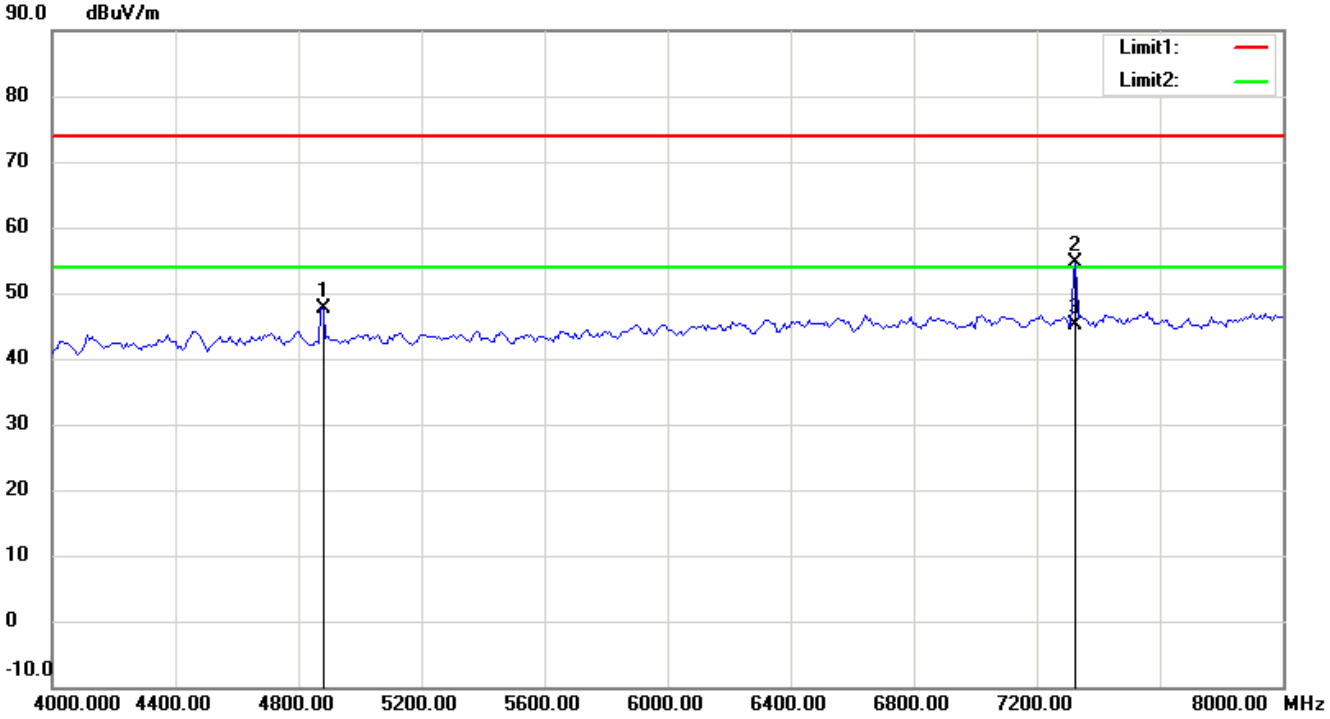
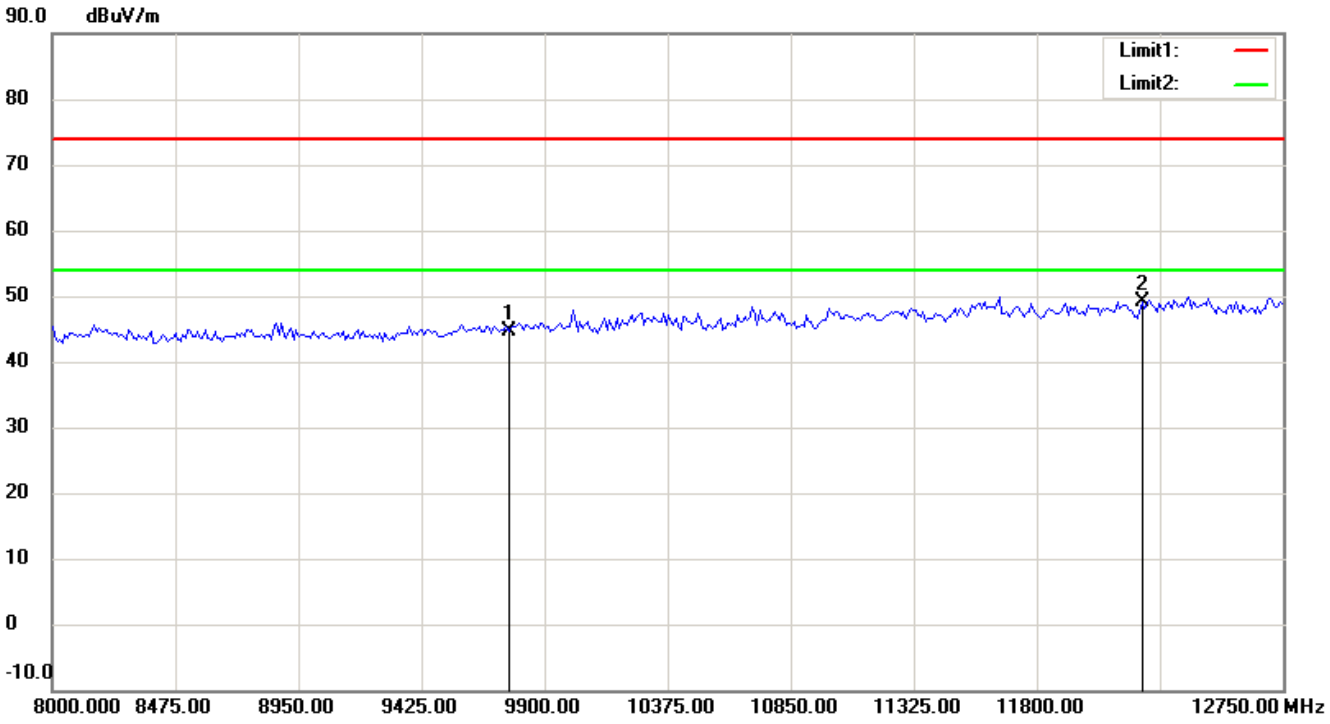
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A





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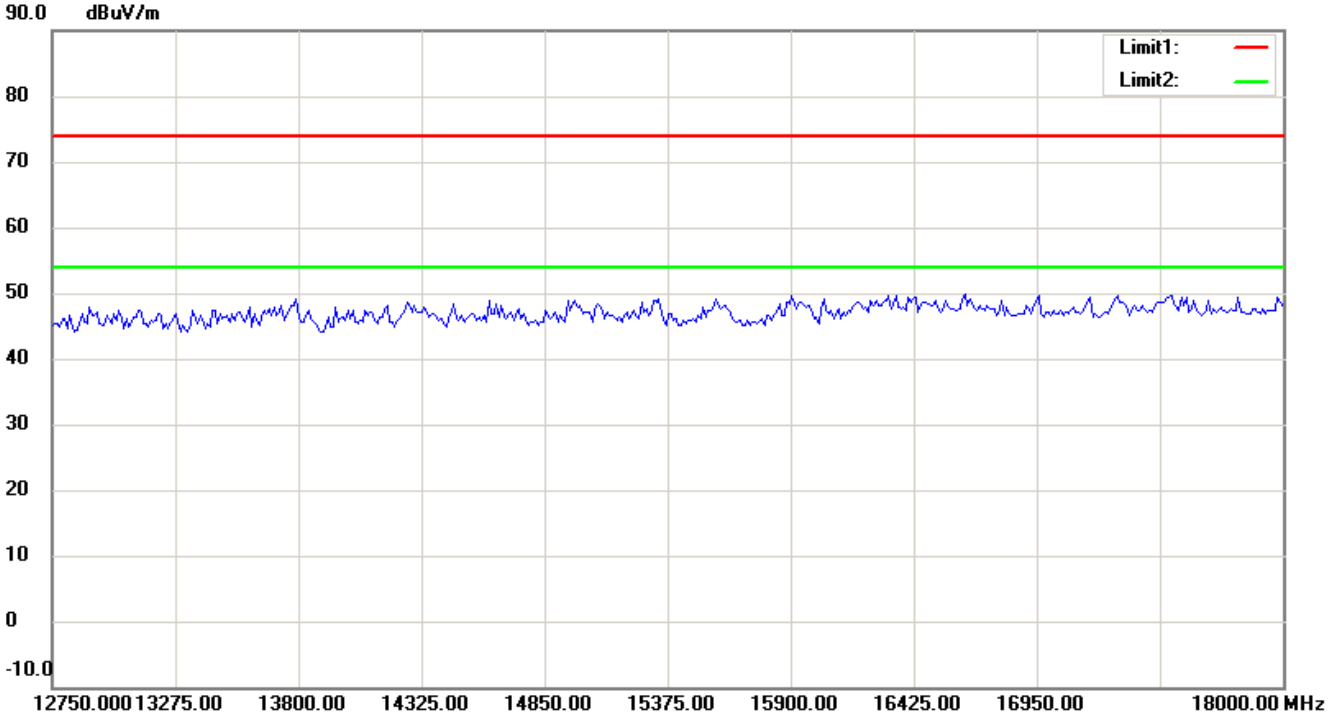
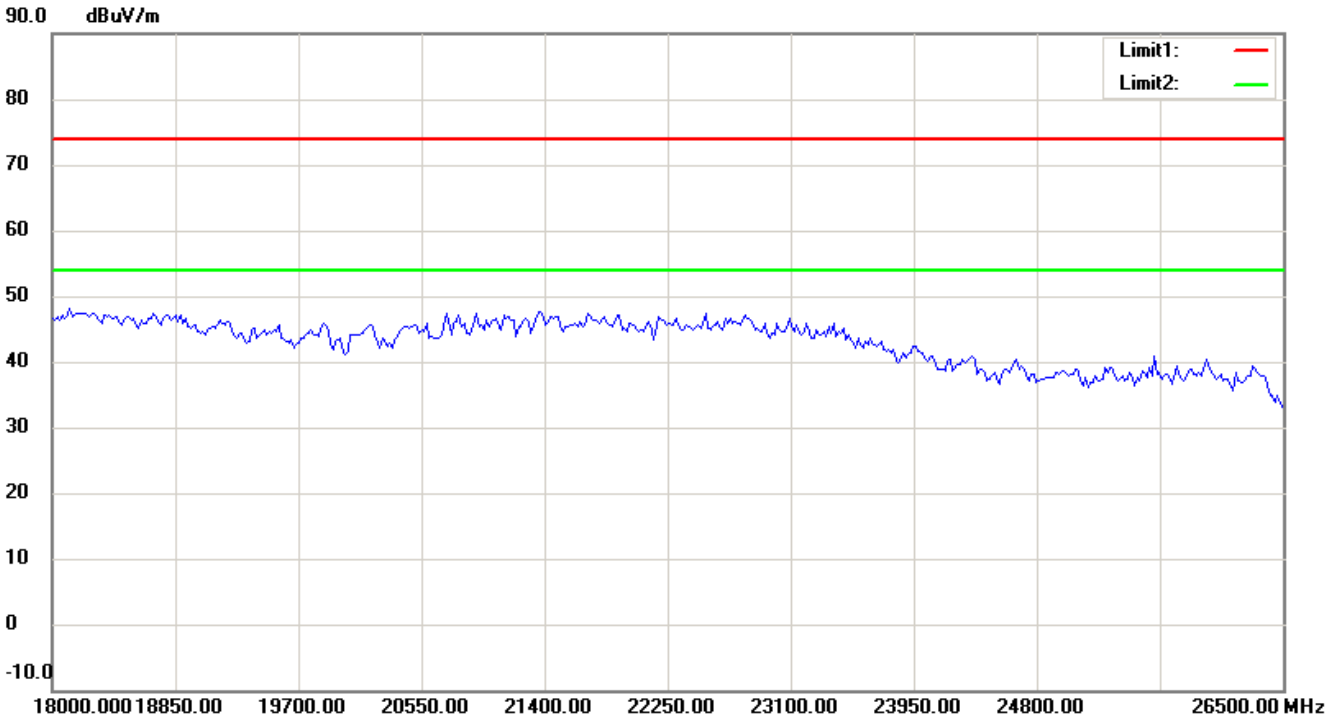
FCC ID: UJ9-7550A





Up Line: Peak Limit Line Down Line: Ave Limit Line
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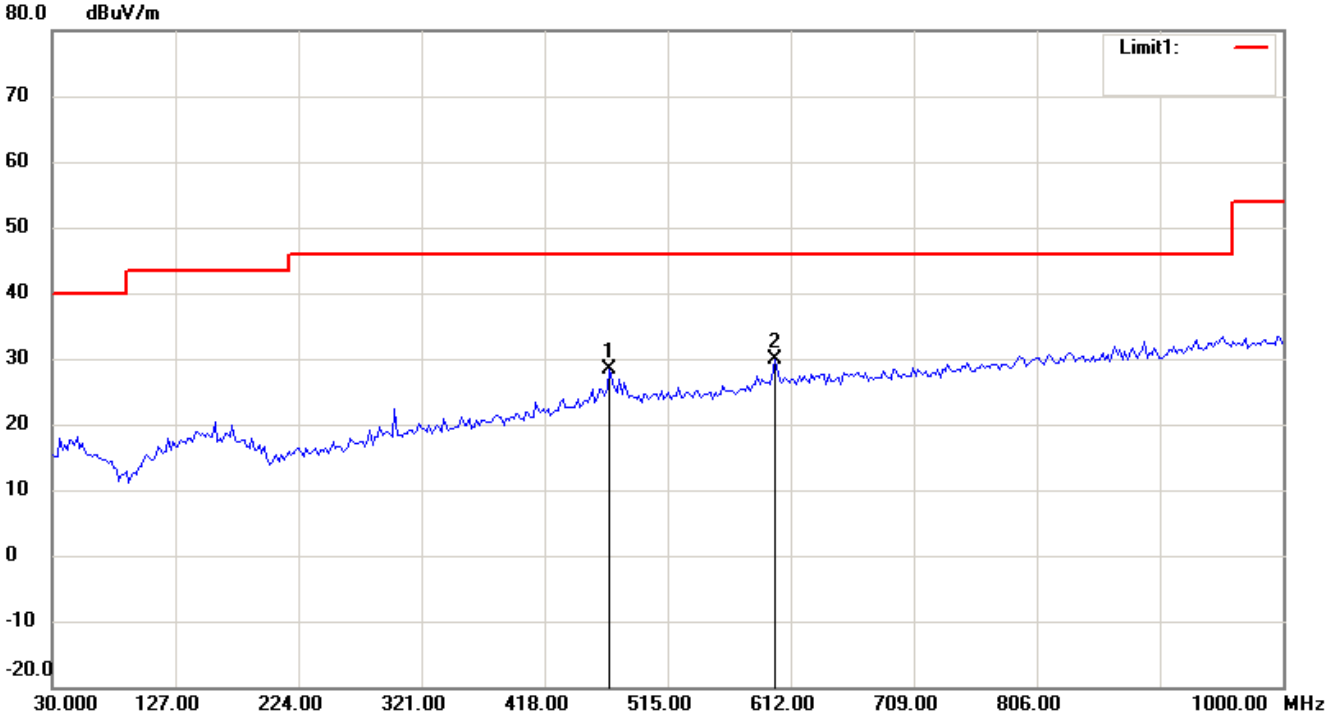
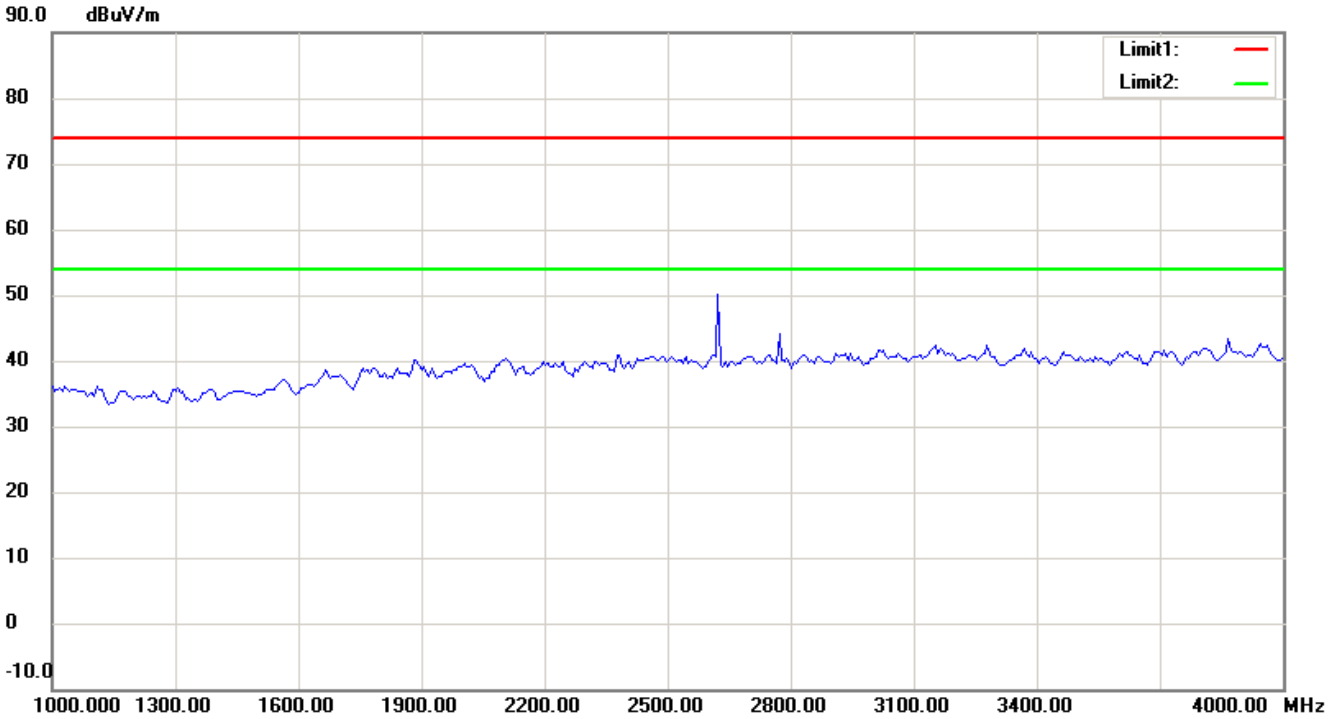
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

TX_2474 MHz

Antenna Polarization H





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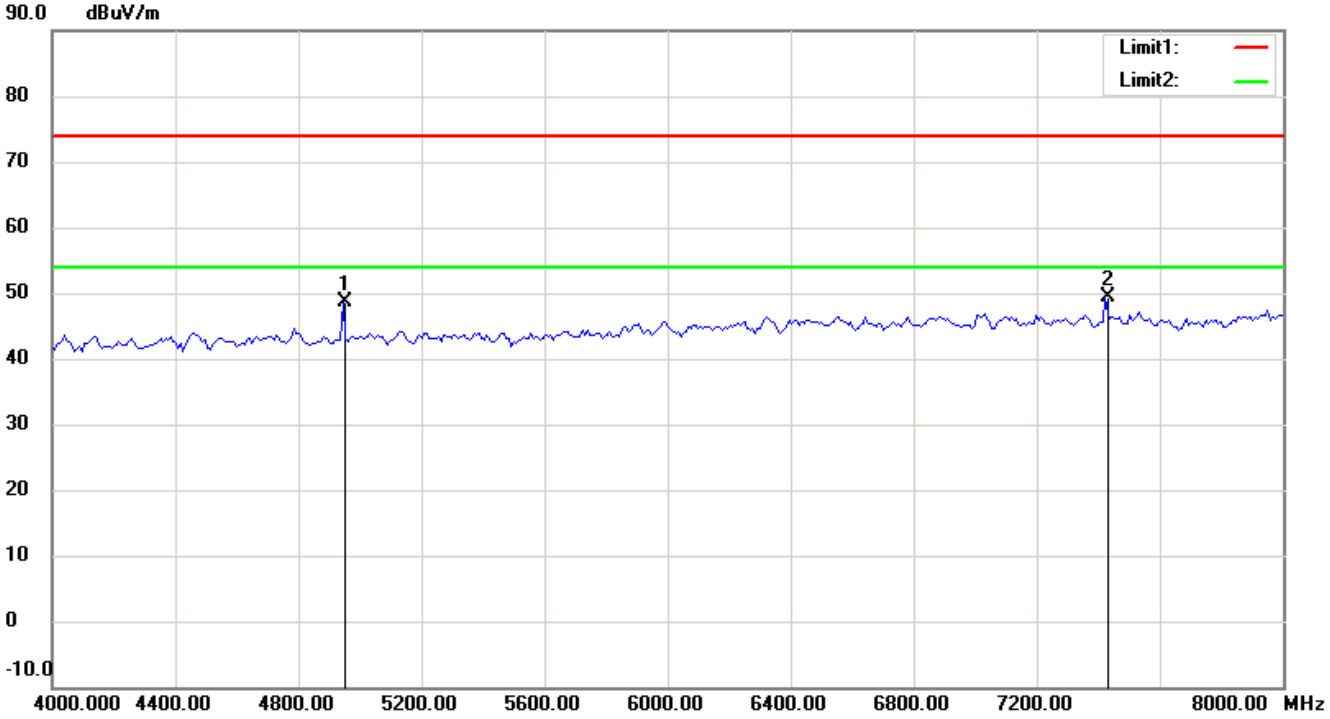
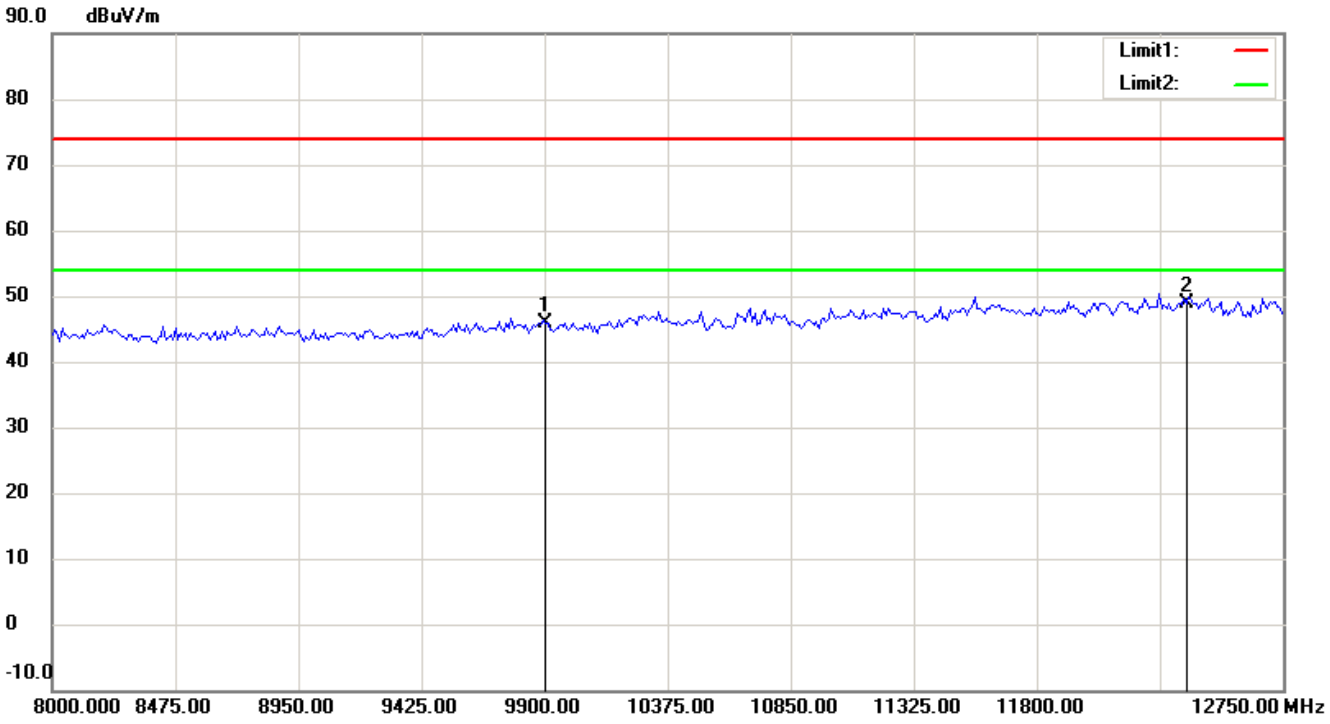
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A





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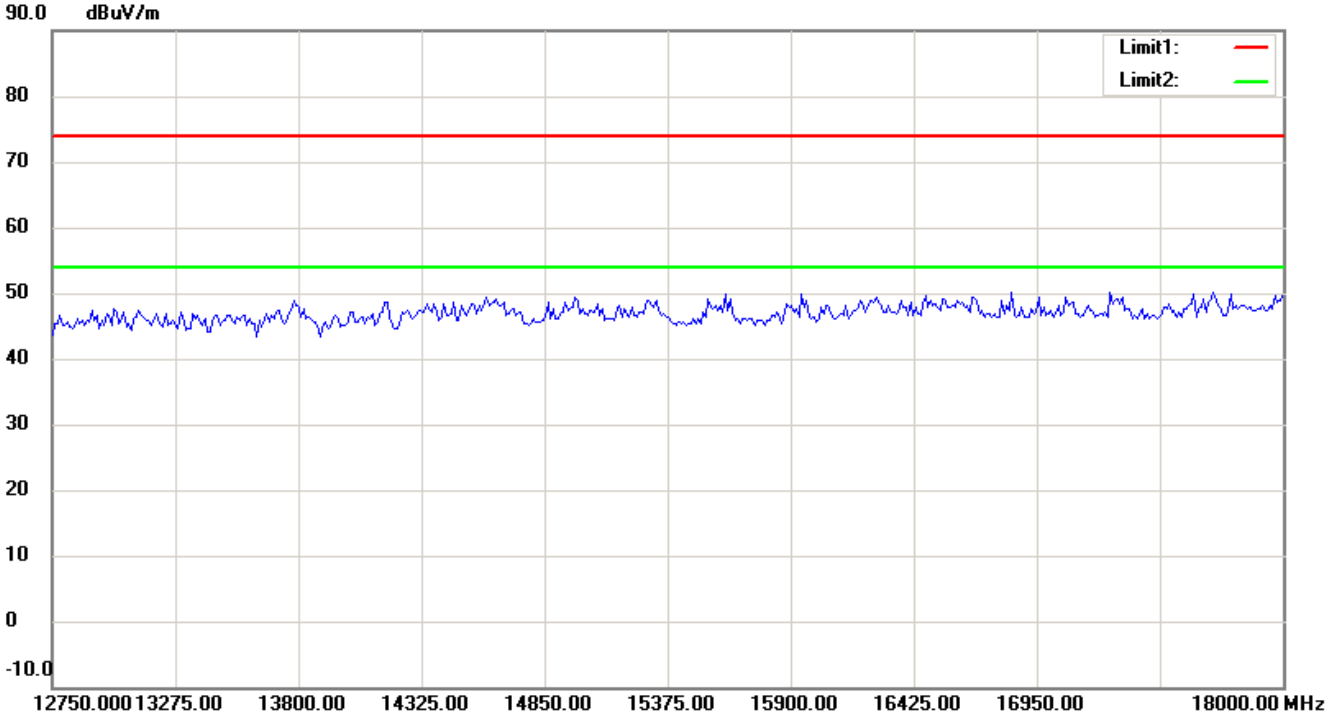

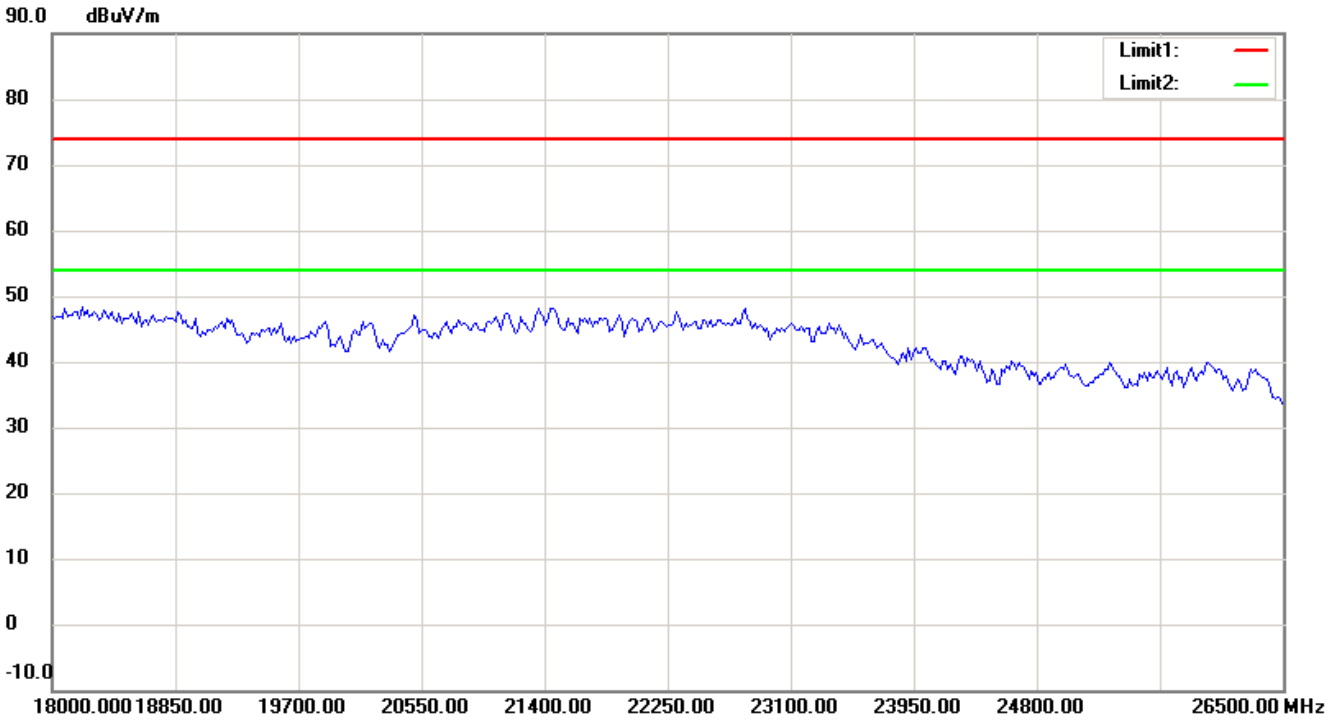

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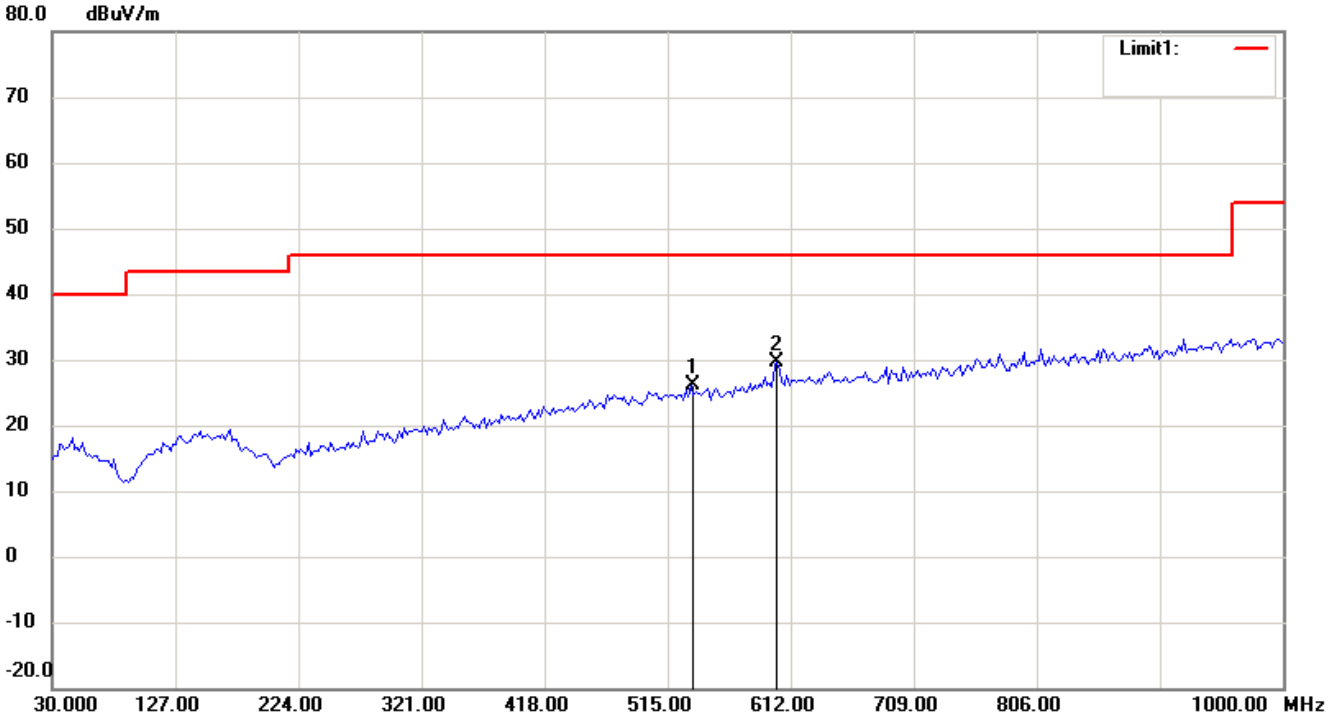
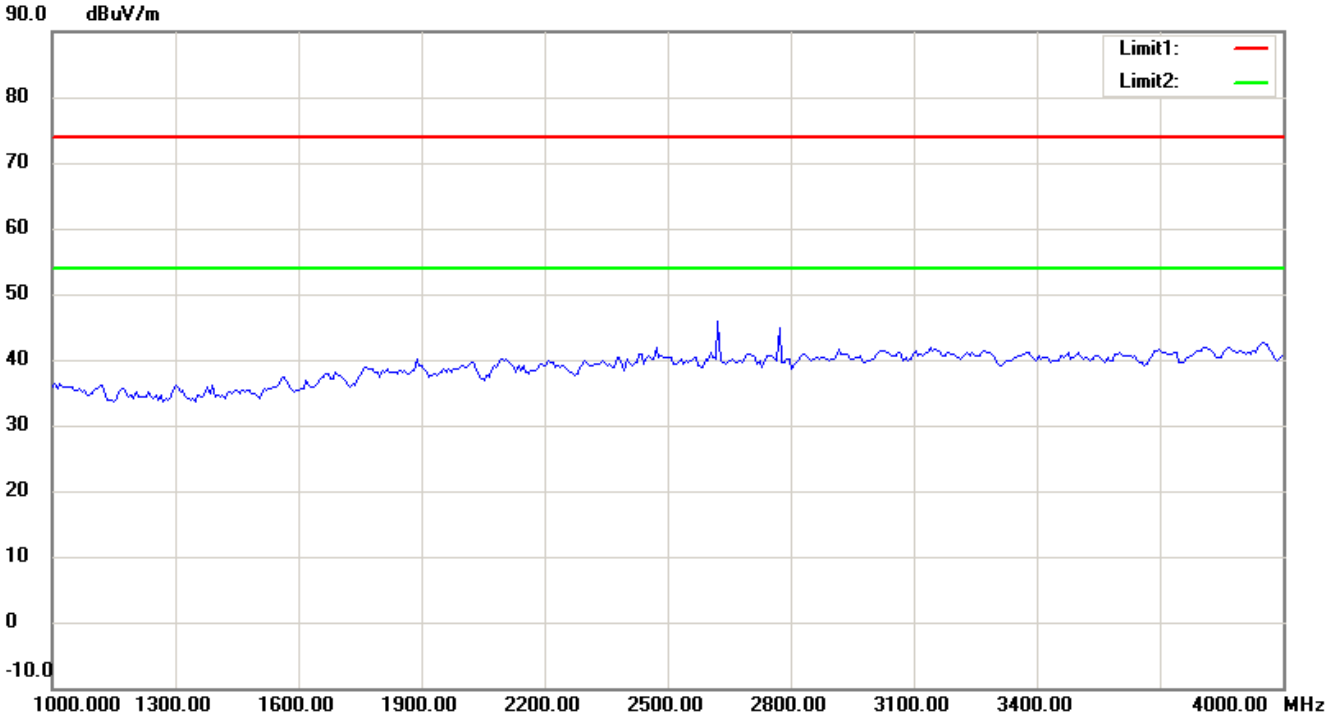
Registration number: W6M21401-13763-C-1
FCC ID: UJ9-7550A

Antenna Polarization V





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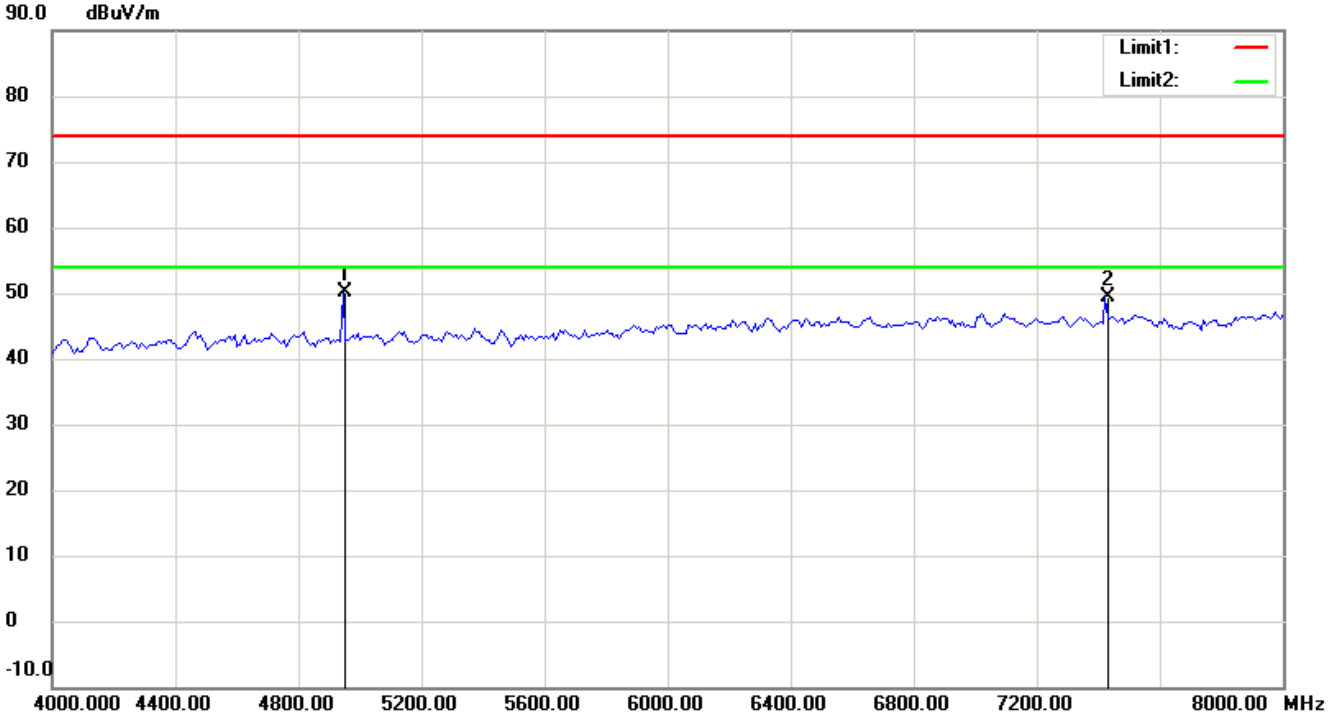

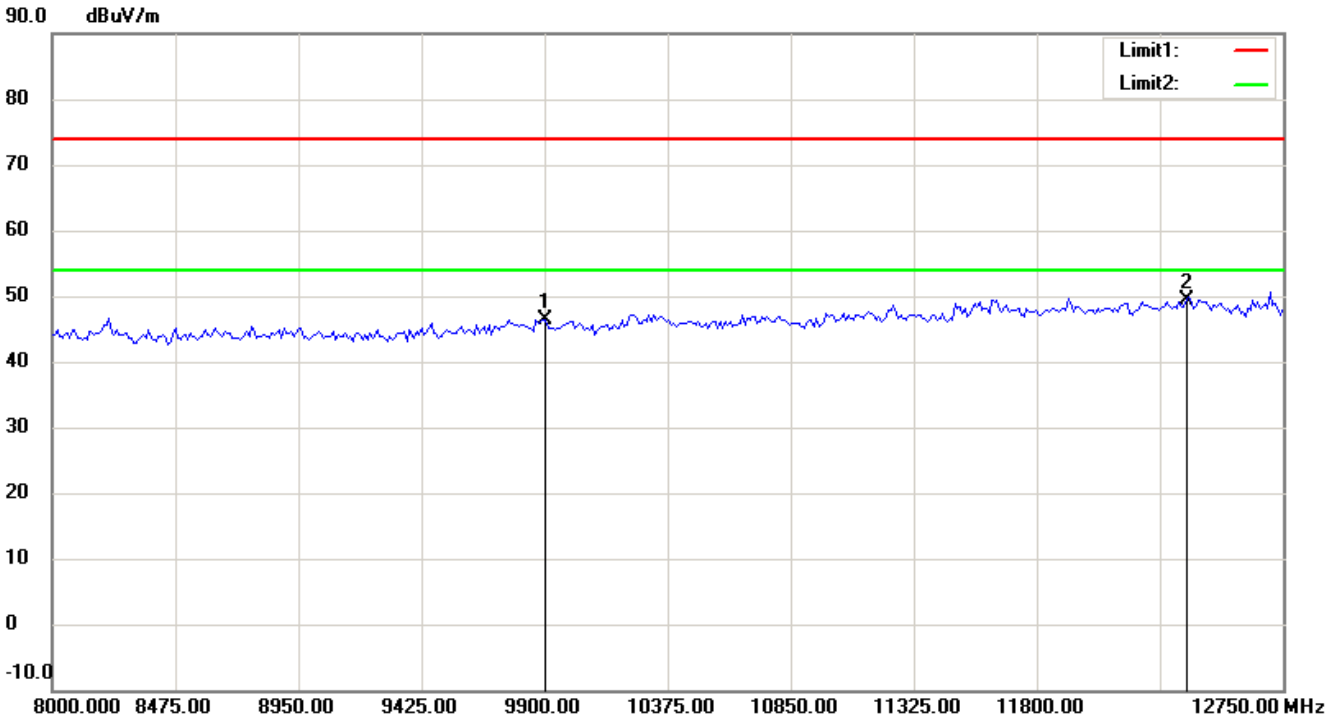

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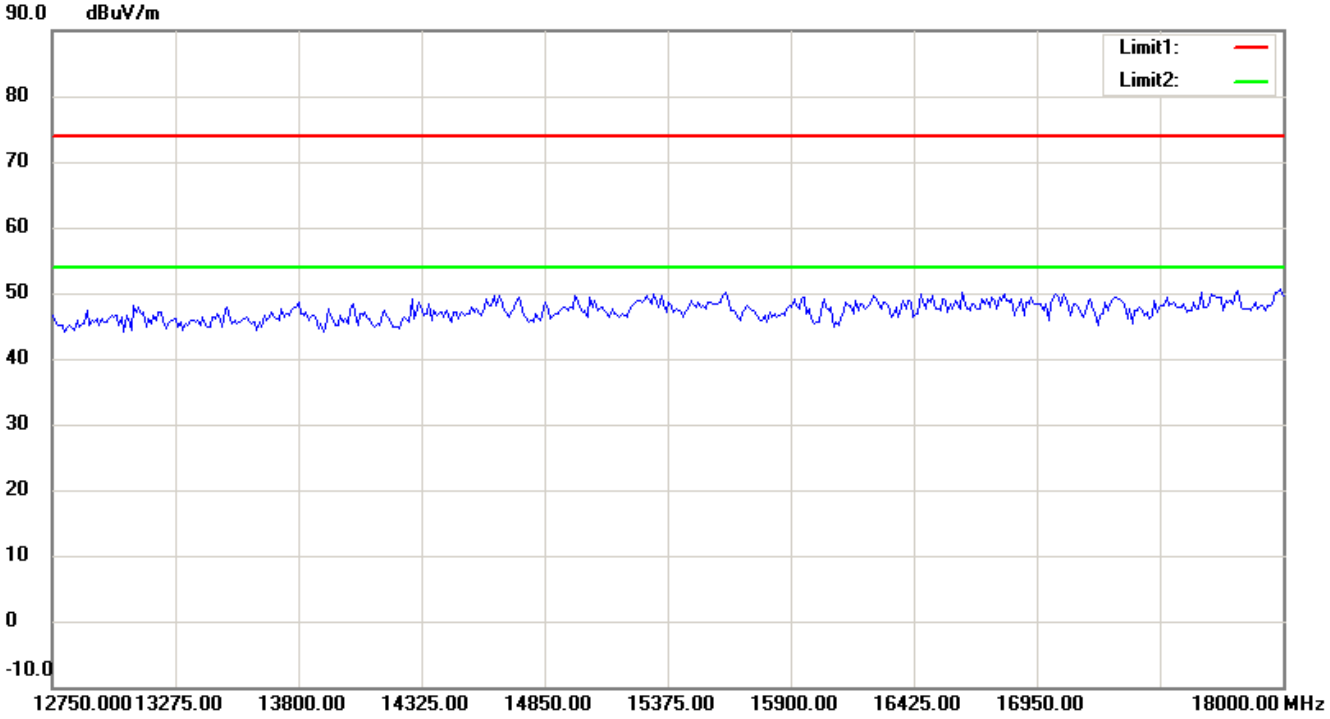

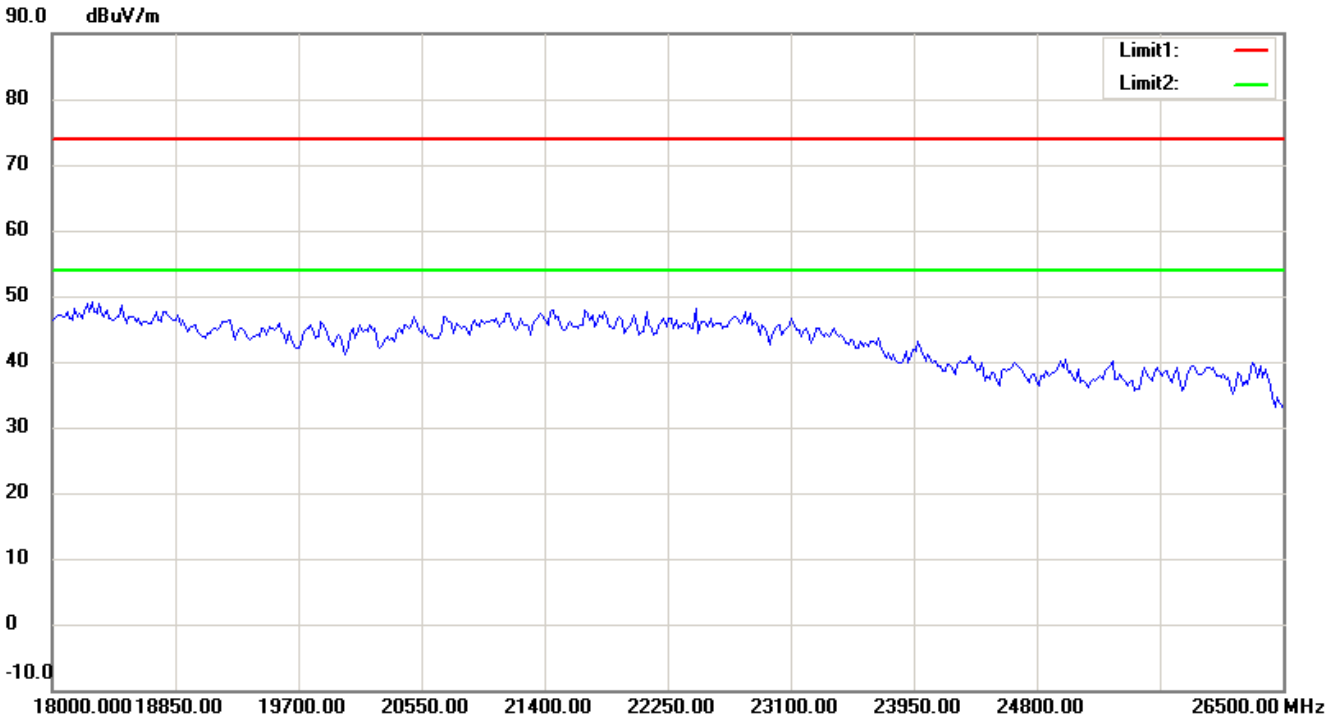

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