FCC PART 22 / 24 TEST REPORT

for

GPS Tracker

Model No.: AAGPS2G-V1

FCC ID: XMSAAGPS2G

of

Applicant: **Amber Alert GPS**
Address: **1196 W So Jordan Pkway Suite B So Jordan,UT 84095, United States**

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.: W6M20911-10216-P-2224

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Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M20911-10216-P-2224
FCC ID: XMSAAGPS2G

Certification of Test Report

Applicant : Amber Alert GPS Corp.
1196 W So Jordan Pkway Suite B So Jordan,UT 84095, United States

Manufacturer : Amber Alert GPS Corp.
1196 W So Jordan Pkway Suite B So Jordan,UT 84095, United States

Tested Equipment :

Type Description	: GPS Tracker
Model Number	: AAGPS2G-V1
Brand Name	: Amber Alert GPS
Operation Frequency	: 824.2-848.8 MHz / 1850.2 - 1909.8 MHz
RF Output Power	1)824.2 - 848.8 MHz :19.23 dBm (ERP) 2)1850.2 - 1909.8 MHz : 28.09 dBm (EIRP)
Power Supply	: Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.2 A, O/P: 5.3 Vdc / 0.5 A) Battery (3.7 V, 530mAh)

Regulation Applied : 47CFR Part 22 (2008-10) and Part 24 (2008-10)

Test Method : 47CFR Part 2 (2008), TIA/EIA-603B (2002) and ANSI C63.4 (2003)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2008), TIA-603-B(2002) and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22/24.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

Date	WTS-Lab.	Name	Signature
January 28, 2010		Danny Sung	Danny

Technical responsibility for area of testing:

Date	WTS	Name	Signature
January 28, 2010		Chang Tse-Ming	Chang Tse-Ming

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1. Summary

1.1 Description of tested equipment

This equipment under tested, AAGPS2G-V1, is a GSM/GPRS tracking device. AAGPS2G-V1 is suitable for many applications such as human body or vehicle security etc. Instantly locate and report your position by using GSM/GPRS solution.

The operation frequency bands and rated RF output power are listed as follows:

824.2-848.8MHz (Cellular, Part 22), 0.0837 W (ERP)
1850.2-1909.8MHz (Cellular, Part 24), 0.644 W (EIRP)

This test report only contains test requirements specified in 47CFR Part 22 and Part 24 for GSM function, for other functions, please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Test sample received: November 13, 2009

Test finished: January 28, 2010

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **FCC Part 2(2008), TIA-603-B(2002), ANSI C63.4(2003)**
47CFR Part 22 (2008-10), and Part 24 (2008-10)

Deviation from test standard: None

1.5 Summary of test result

Band: 850MHz

Section in this Report	Test Item	FCC Relevant Section	Verdict
3.2	RF power output	2.1046(a), 22.913(a)	Pass
4.2	Modulation characteristics	2.1047	Not Required
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	22.917(a), 2.1051	Pass
7.2	Field strength of spurious radiation	22.917(a), 2.1053	Pass
7.5	Band Edge emissions	22.917(a)	Pass
8.2	Frequency stability	2.1055(a) 2.1055(d)	Pass

Band: 1900MHz

Section in this Report	Test Item	FCC Relevant Section	Verdict
3.2	RF power output	2.1046(a), 24.232(b)	Pass
4.2	Modulation characteristics	2.1047	Not Required
5.2	Occupied bandwidth	2.1049(h)	Pass
6.2	Spurious emissions at antenna terminals	24.238(a), 2.1051	Pass
7.2	Field strength of spurious radiation	24.238(a), 2.1053	Pass
7.5	Band Edge emissions	24.238(a),	Pass
8.2	Frequency stability	2.1055(a) 2.1055(d)	Pass

2. General Information

2.1 Testing laboratory

2.1.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)

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

2.1.2 Details of accreditation status

Accredited testing laboratory

A2LA-registration number: 2732.01

FCC filed test laboratory Reg. No. 930600

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

2.1.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.

2.2 Details of approval holder

Name:	Amber Alert GPS.
Street:	1196 W So Jordan Pkway Suite B
Town:	So Jordan,UT 84095,
Country:	United States
Telephone:	888-334-3958
Fax:	801-466-4822

Manufacturer: (if different from applicant)

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

2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					

Frequency Range:

Band: 850 MHz

Band: 1900 MHz

Frequencies Selected to be investigated:

Band: 850 MHz

Low Frequency (ch 128)	: 824.2 MHz
Mid Frequency (ch 188)	: 836.2 MHz
High Frequency (ch 251)	: 848.8 MHz

Band: 1900 MHz

Low Frequency (ch 512)	: 1850.2 MHz
Mid Frequency (ch 661)	: 1880.0 MHz
High Frequency (ch 810)	: 1909.8 MHz

Antenna Type: PIFA Antenna

Antenna Gain: -8 dBi

Power supply: Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.2 A,
O/P: 5.3 Vdc / 0.5 A)
Battery (3.7 V, 530mAh)

2.4 Test environment

Temperature:	27 °C
Relative humidity content:	54 %
Air pressure:	86-103 Kpa

2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz 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.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

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.

2.6 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	Function Test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2009/10/1	2010/9/30
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2009/9/18	2010/9/17
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2009/9/11	2010/9/10
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2009/9/11	2010/9/10
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2009/5/4	2010/5/3
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2009/10/1	2010/9/30
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2009/8/19	2010/8/18
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2009/8/14	2011/8/13
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2009/4/15	2010/4/14
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2009/4/15	2010/4/14
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2009/3/23	2010/3/22
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2009/8/23	2010/8/22
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2009/6/15	2010/6/14
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2009/8/23	2010/8/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2010/1/7	2011/1/6
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2009/5/5	2010/5/4
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2009/5/21	2010/5/20
ETSTW-RE 047	PSA SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2009/6/15	2010/6/14
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2009/8/31	2010/8/30
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2009/4/14	2010/4/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2009/6/10	2010/6/09
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2009/4/21	2010/4/20
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2009/10/2	2010/10/1
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2010/1/7	2011/1/6
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2010/1/7	2011/1/6
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	Function Test	
ETSTW-RE 092	Match Pad	MDCS1510	None	WOKEN	Function Test	
ETSTW-RE 093	LUMPED ELEMENT POWER DIVIDER	PL2-10	146	MCLI	2009/3/6	2010/3/5
ETSTW-RE 095	Digital Thermo-Hygro Meter	0410	01	WISEWIND	2009/3/24	2010/3/23
ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2009/6/5	2010/6/4

ETSTW-RE 097	GPS SIGNAL GENERATOR	GSG-L1	06-0507-0311	Naviva	Function Test	
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2009/9/22	2010/9/21
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2009/9/21	2010/9/20
ETSTW-Cable 001	Microwave Cable	SUCOFLEX 104（S Cable 1）	238094	HUBER+SUHNER	2009/9/16	2010/9/15
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104（S_Cable 7）	238093	HUBER+SUHNER	2009/9/16	2010/9/15
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104（S_Cable 11）	209953	HUBER+SUHNER	2009/9/16	2010/9/15
ETSTW-Cable 006	Microwave Cable	SUCOFLEX 104（S_Cable 8）	238095	HUBER+SUHNER	2009/3/6	2010/3/5
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2009/3/6	2010/3/5
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	2009/8/20	2010/8/19
ETSTW-Cable 012	BNC Cable	BNC Cable 2	None	JYE BAO CO.,LTD.	2009/8/20	2010/8/19
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104（S_Cable 5）	232345	HUBER+SUHNER	2009/3/6	2010/3/5
ETSTW-Cable 022	N TYPE Cable	OATS Cable 3	0002	JYE BAO CO.,LTD.	2009/3/6	2010/3/5

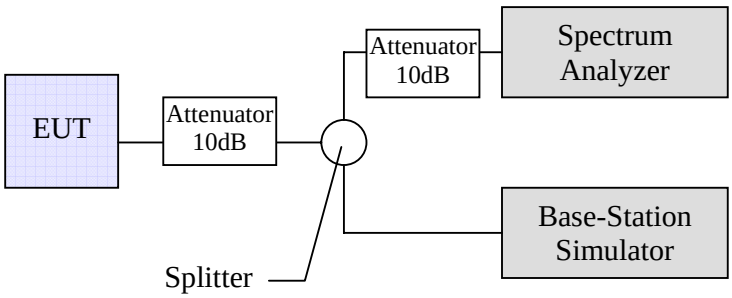
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link form simulator to EUT and then set the EUT to maximum output power.
Measure the RF power with the spectrum analyzer in accordance the following settings:

RBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.
VBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.
Span: 2MHz
Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assign the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low , middle and high channels) and operation mode selected.

3.1.2 Radiated Method

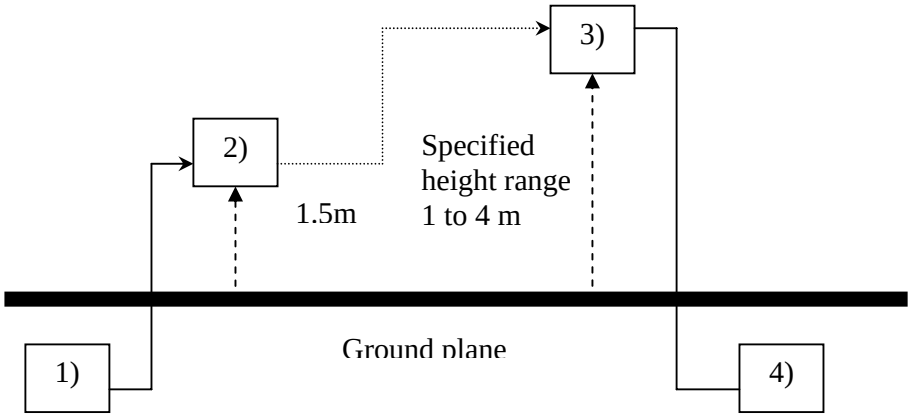
If the conducted measurement is not practical due to the integral antenna, the radiated measurement will be performed in accordance the following procedure:

The EUT was positioned on a non-conductive turntable, 0.8mabove the ground on an open test site.
The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS Taiwan
General :

The applied substitution method follows ANSI/TIA/EIA-603,ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.
The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



1) Signal generator;
2) Substitution antenna;
3) Test antenna;
4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.
The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.
If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.
The measurement will be repeated in horizontal position.
Calibration:
In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.
With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in

consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:
The test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.
On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.
For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

3.2 Test Results

☑ Conducted Measurement
☐ Radiated Measurement

3.7 V

Frequency (MHz)	Test result (dBm)
824.2	32.06
836.2	32.03
848.8	32.20
1850.2	27.55
1880.0	27.15
1909.8	27.27

3.6 V

Frequency (MHz)	Test result (dBm)
824.2	32.15
836.2	32.07
848.8	31.95
1850.2	27.32
1880.0	26.97
1909.8	27.31

☐ Conducted Measurement
☑ Radiated Measurement

3.7 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.1500	19.23	21.38	38.45	Pass
836.1700	16.68	18.83	38.45	Pass
848.8100	19.23	21.38	38.45	Pass
1850.1700	24.74	26.89	33	Pass
1879.9500	25.93	28.08	33	Pass
1909.6900	24.71	26.86	33	Pass

3.6 V

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.1520	19.11	21.26	38.45	Pass
836.1725	16.67	18.82	38.45	Pass
848.8160	19.17	21.32	38.45	Pass
1850.2900	24.76	26.91	33	Pass
1879.9700	25.94	28.09	33	Pass
1909.8300	24.85	27.00	33	Pass

Test equipment: ETSTW-RE 003, ETSTW-RE 017, ETSTW-RE 028, ETSTW-RE 030, ETSTW-RE 043, ETSTW-GSM 02

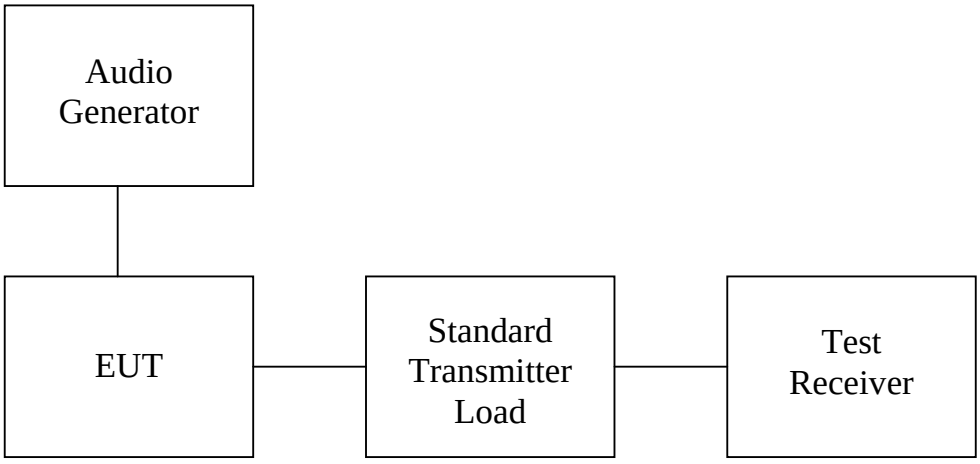
Note: Please refer to appendix for plot data.

4. Modulation Characteristics

4.1 Test procedure

☐ A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

☐ Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

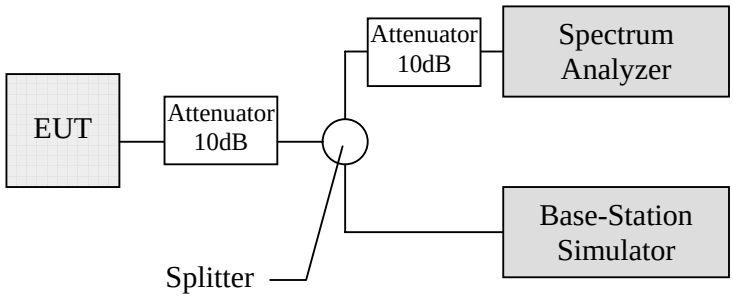
For digital modulation employed, this test item is not applicable.

5. Occupied Bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

5.1 Test procedure

The RF output of the transceiver was connected as the following figure.
Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.



5.2 Test Results

Occupied Channel Bandwidth (kHz)	
Channel 128	250.000000000
Channel 188	250.000000000
Channel 251	248.397435897
Channel 512	250.000000000
Channel 661	250.000000000
Channel 810	246.794871795
-26dB Channel Bandwidth (kHz)	
Channel 128	331.730769231
Channel 188	333.333333333
Channel 251	331.730769231
Channel 512	331.730769231
Channel 661	334.935897436
Channel 810	331.730769231

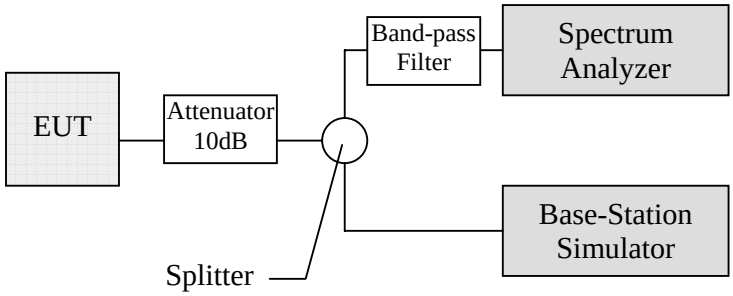
Test equipment: ETSTW-RE 055, ETSTW-GSM 02

Note: Please refer to appendix for plot data.

6. Spurious Emissions at Antenna Terminals

6.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.
The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.
Tests were performed with an unmodulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.



6.2 Test Results

CH128

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
181.009615385	-54.77	-13	-41.77
494.070512821	-54.51	-13	-41.51
1649.038462	-37.99	-13	-24.99
2475.961538	-37.44	-13	-24.44
3302.884615	-38.85	-13	-25.85
4121.794872	-42.52	-13	-29.52
4942.307692	-38.72	-13	-25.72
5769.230769	-41.72	-13	-28.72
6602.564103	-42.78	-13	-29.78
8235.977564	-42.84	-13	-29.84
9066.200000	-50.98	-13	-37.98
9890.400000	-51.89	-13	-38.89
10714.600000	-51.88	-13	-38.88
13187.200000	-51.96	-13	-38.96
14011.400000	-51.71	-13	-38.71
14835.600000	-51.38	-13	-38.38
15659.800000	-51.11	-13	-38.11
18132.400000	-50.73	-13	-37.73
18956.600000	-51.08	-13	-38.08
19780.800000	-50.92	-13	-37.92
20605.000000	-49.84	-13	-36.84

CH188

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
225.144230769	-55.12	-13	-42.12
915.929487179	-54.18	-13	-41.18
1673.076923	-39.39	-13	-26.39
2509.615385	-39.63	-13	-26.63
3346.153846	-39.75	-13	-26.75
4179.487179	-44.09	-13	-31.09
5019.230769	-41.07	-13	-28.07
5858.974359	-41.96	-13	-28.96
6692.307692	-44.16	-13	-31.16
8357.772436	-48.71	-13	-35.71
9198.200000	-50.88	-13	-37.88
10034.400000	-51.86	-13	-38.86
10870.600000	-51.51	-13	-38.51
13379.200000	-52.03	-13	-39.03
14215.400000	-52.04	-13	-39.04
15051.600000	-50.70	-13	-37.70
15887.800000	-50.71	-13	-37.71
18396.400000	-50.61	-13	-37.61
19232.600000	-50.91	-13	-37.91
20068.800000	-51.13	-13	-38.13
20905.000000	-48.97	-13	-35.97

CH251

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
230.336538462	-54.11	-13	-41.11
960.737179487	-54.58	-13	-41.58
1697.115385	-39.20	-13	-26.20
2548.076923	-40.54	-13	-27.54
3399.038462	-36.12	-13	-23.12
4243.589744	-43.24	-13	-30.24
5089.743590	-40.05	-13	-27.05
5942.307692	-41.39	-13	-28.39
6794.871795	-44.30	-13	-31.30
8487.179487	-46.96	-13	-33.96
9336.800000	-50.91	-13	-37.91
10185.600000	-52.31	-13	-39.31
11034.400000	-51.07	-13	-38.07
13580.800000	-52.21	-13	-39.21
14429.600000	-51.45	-13	-38.45
15278.400000	-51.49	-13	-38.49
16127.200000	-51.56	-13	-38.56
18673.600000	-51.15	-13	-38.15
19522.400000	-50.03	-13	-37.03
20371.200000	-50.13	-13	-37.13
21220.000000	-49.87	-13	-36.87

850 Band Idle

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
261.490384615	-55.73	-13	-42.73
513.141025641	-55.36	-13	-42.36
2980.769231	-48.25	-13	-35.25
5705.128205	-51.20	-13	-38.20
12270.432692	-50.45	-13	-37.45
17587.740385	-49.74	-13	-36.74
25042.467949	-46.91	-13	-33.91

CH512

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
138.173076923	-55.11	-13	-42.11
307.852564103	-54.77	-13	-41.77
3701.923077	-40.15	-13	-27.15
5551.282051	-49.92	-13	-36.92
7403.846154	-49.43	-13	-36.43
9248.397436	-45.80	-13	-32.80
11101.200000	-52.08	-13	-39.08
12951.400000	-51.14	-13	-38.14
14801.600000	-51.79	-13	-38.79
16651.800000	-50.33	-13	-37.33
18502.000000	-50.11	-13	-37.11
20352.200000	-49.49	-13	-36.49
22202.400000	-48.11	-13	-35.11
24052.600000	-49.37	-13	-36.37

CH661

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
222.115384615	-54.86	-13	-41.86
444.711538462	-55.18	-13	-42.18
3764.423077	-43.95	-13	-30.95
5640.000000	-52.02	-13	-39.02
7525.641026	-44.98	-13	-31.98
9400.641026	-46.22	-13	-33.22
11280.000000	-51.43	-13	-38.43
13160.000000	-51.80	-13	-38.80
15040.000000	-51.65	-13	-38.65
16920.000000	-52.21	-13	-39.21
18800.000000	-51.17	-13	-38.17
20680.000000	-50.25	-13	-37.25
22560.000000	-50.47	-13	-37.47
24440.000000	-48.13	-13	-35.13

CH810

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
210.432692308	-54.01	-13	-41.01
326.923076923	-55.53	-13	-42.53
3822.115385	-42.34	-13	-29.34
5730.769231	-49.89	-13	-36.89
7641.025641	-41.48	-13	-28.48
9552.884615	-47.16	-13	-34.16
11458.800000	-52.08	-13	-39.08
13368.600000	-52.33	-13	-39.33
15278.400000	-51.56	-13	-38.56
17188.200000	-50.68	-13	-37.68
19098.000000	-51.37	-13	-38.37
21007.800000	-48.56	-13	-35.56
22917.600000	-50.03	-13	-37.03
24827.400000	-48.53	-13	-35.53

1900 Band Idle

Frequency (MHz)	Power Measured (dBm)	Compliance Limit (dBm)	Margin (dB)
37.788461538	-55.18	-13	-42.18
775.641025641	-55.02	-13	-42.02
3322.115385	-48.78	-13	-35.78
7551.282051	-50.72	-13	-37.72
10458.733974	-50.61	-13	-37.61
17604.567308	-50.25	-13	-37.25
24865.384615	-46.96	-13	-33.96

Test equipment: ETSTW-RE 055, ETSTW-GSM 02
Note: Please refer to appendix for plot data.

6.3 Explanation of test result

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

6.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least 43 + 10 log P (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:
Maximum transmitter output power: P= 0.86099375 Watts
Required attenuation: A=43 + 10 log P
Limit for Spurious Emissions at Antenna Terminals: L=P-A=-13dBm

7. Field Strength of Spurious Radiation

7.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

7.2 Test Results

The measurements of the spurious emission at the upper, center and lower channel.

CH128_ DC 3.7 V

Model: AAGPS2G-V1 Date: 2009/11/14-11/16
Mode: Active ch128 Temperature: 24 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
259.9600	-104.51	32.05	-72.46	-13.00	-59.46	105	150
876.5531	-103.03	35.50	-67.53	-13.00	-54.53	125	150
1649.2990	-32.85	4.05	-28.80	-13.00	-15.80	140	150
2472.9460	-48.99	6.75	-42.24	-13.00	-29.24	155	150
3296.5930	-54.16	11.26	-42.90	-13.00	-29.90	145	150
4120.2410	-51.29	10.37	-40.92	-13.00	-27.92	150	150
4945.8920	-45.58	9.47	-36.11	-13.00	-23.11	130	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-92.16	23.82	-68.34	-13.00	-55.34	100	150
911.6233	-102.39	35.63	-66.76	-13.00	-53.76	125	150
1649.2990	-40.59	3.60	-36.99	-13.00	-23.99	140	150
2472.9460	-48.31	4.66	-43.65	-13.00	-30.65	145	150
3296.5930	-52.26	9.04	-43.22	-13.00	-30.22	150	150
4120.2410	-62.44	8.59	-53.85	-13.00	-40.85	160	150
4945.8920	-48.01	7.50	-40.51	-13.00	-27.51	140	150

CH128_ DC 3.6 V

Mode: Active ch128 Temperature: 26 ˚C
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
261.5832	-104.14	31.81	-72.33	-13.00	-59.33	100	150
879.3587	-103.93	35.46	-68.47	-13.00	-55.47	120	150
1649.2990	-33.87	4.05	-29.82	-13.00	-16.82	145	150
2472.9460	-48.53	6.75	-41.78	-13.00	-28.78	160	150
3296.5930	-53.24	11.26	-41.98	-13.00	-28.98	165	150
4120.2410	-51.02	10.37	-40.65	-13.00	-27.65	145	150
4945.8920	-44.65	9.47	-35.18	-13.00	-22.18	130	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.58	23.82	-67.76	-13.00	-54.76	105	150
261.5832	-104.14	31.81	-72.33	-13.00	-59.33	100	150
973.3467	-102.18	35.21	-66.97	-13.00	-53.97	130	150
1649.2990	-40.15	3.60	-36.55	-13.00	-23.55	135	150
2472.9460	-48.52	4.66	-43.86	-13.00	-30.86	155	150
3296.5930	-52.99	9.04	-43.95	-13.00	-30.95	160	150
4120.2410	-61.94	8.59	-53.35	-13.00	-40.35	150	150
4945.8920	-49.03	7.50	-41.53	-13.00	-28.53	135	150

CH188_ DC 3.7 V

Mode: Active ch188 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
257.7956	-104.07	31.55	-72.52	-13.00	-59.52	105	150
983.1663	-102.08	35.66	-66.42	-13.00	-53.42	110	150
1673.3470	-38.66	5.09	-33.57	-13.00	-20.57	145	150
2509.0180	-50.33	7.22	-43.11	-13.00	-30.11	135	150
3344.6890	-48.40	11.52	-36.88	-13.00	-23.88	140	150
4176.3530	-54.57	10.07	-44.50	-13.00	-31.50	160	150
5018.0360	-43.44	9.48	-33.96	-13.00	-20.96	150	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
298.3768	-104.02	35.06	-68.96	-13.00	-55.96	115	150
917.2345	-101.92	35.58	-66.34	-13.00	-53.34	120	150
1673.3470	-43.76	4.33	-39.43	-13.00	-26.43	150	150
2509.0180	-49.21	4.85	-44.36	-13.00	-31.36	160	150
3344.6890	-50.84	9.38	-41.46	-13.00	-28.46	140	150
4176.3530	-59.89	8.36	-51.53	-13.00	-38.53	145	150
5018.0360	-47.52	7.18	-40.34	-13.00	-27.34	160	150

CH188_ DC 3.6 V

Mode: Active ch188 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
298.9178	-104.57	31.62	-72.95	-13.00	-59.95	110	150
995.7916	-102.62	36.25	-66.37	-13.00	-53.37	125	150
1673.3470	-38.04	5.09	-32.95	-13.00	-19.95	135	150
2509.0180	-50.08	7.22	-42.86	-13.00	-29.86	130	150
3344.6890	-49.16	11.52	-37.64	-13.00	-24.64	145	150
4176.3530	-52.96	10.07	-42.89	-13.00	-29.89	135	150
5018.0360	-43.34	9.48	-33.86	-13.00	-20.86	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.05	23.82	-67.23	-13.00	-54.23	100	150
911.6233	-102.24	35.63	-66.61	-13.00	-53.61	130	150
1673.3470	-41.63	4.33	-37.30	-13.00	-24.30	140	150
2509.0180	-48.81	4.85	-43.96	-13.00	-30.96	150	150
3344.6890	-52.52	9.38	-43.14	-13.00	-30.14	145	150
4176.3530	-58.76	8.36	-50.40	-13.00	-37.40	150	150
5018.0360	-47.54	7.18	-40.36	-13.00	-27.36	145	150

CH251_ DC 3.7 V

Mode: Active ch 251 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
260.5010	-104.34	31.98	-72.36	-13.00	-59.36	100	150
894.7896	-103.01	35.24	-67.77	-13.00	-54.77	130	150
1697.3950	-42.25	6.13	-36.12	-13.00	-23.12	145	150
2545.0900	-47.23	8.04	-39.19	-13.00	-26.19	135	150
3398.7980	-49.66	11.76	-37.90	-13.00	-24.90	150	150
4240.4810	-56.10	9.64	-46.46	-13.00	-33.46	150	150
5090.1800	-45.38	9.93	-35.45	-13.00	-22.45	155	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.93	23.82	-68.11	-13.00	-55.11	110	150
981.7635	-103.23	35.18	-68.05	-13.00	-55.05	115	150
1697.3950	-49.45	5.07	-44.38	-13.00	-31.38	145	150
2545.0900	-47.87	5.30	-42.57	-13.00	-29.57	130	150
3398.7980	-53.61	9.77	-43.84	-13.00	-30.84	135	150
4240.4810	-59.67	7.33	-52.34	-13.00	-39.34	135	150
5090.1800	-47.00	7.60	-39.40	-13.00	-26.40	150	150

CH251_ DC 3.6 V

Mode: Active ch251 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
294.0481	-103.71	30.93	-72.78	-13.00	-59.78	90	150
995.7916	-103.51	36.25	-67.26	-13.00	-54.26	140	150
1697.3950	-39.81	6.13	-33.68	-13.00	-20.68	140	150
2545.0900	-47.28	8.04	-39.24	-13.00	-26.24	150	150
3398.7980	-51.84	11.76	-40.08	-13.00	-27.08	160	150
4240.4810	-55.84	9.64	-46.20	-13.00	-33.20	140	150
5090.1800	-45.52	9.93	-35.59	-13.00	-22.59	130	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.45	23.82	-67.63	-13.00	-54.63	110	150
939.6794	-102.92	35.38	-67.54	-13.00	-54.54	120	150
1697.3950	-45.05	5.07	-39.98	-13.00	-26.98	145	150
2545.0900	-48.61	5.30	-43.31	-13.00	-30.31	135	150
3398.7980	-52.95	9.77	-43.18	-13.00	-30.18	150	150
4240.4810	-59.78	7.33	-52.45	-13.00	-39.45	160	150
5090.1800	-46.58	7.60	-38.98	-13.00	-25.98	165	150

850 Band Idle Mode_ DC 3.7 V

Mode: Idle Temperature: 26 ˚C Engineer: Danny
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)
30.5411	12.41	peak	13.30	25.71	40.00	-14.29	110	150
285.3908	16.08	peak	15.86	31.94	46.00	-14.06	100	150
775.5511	7.39	peak	26.12	33.51	46.00	-12.49	135	150
897.5952	7.96	peak	27.60	35.56	46.00	-10.44	125	150

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)
3975.9520	44.36	---	-0.90	43.46	---	74.00	54.00	-30.54	140	150
7398.7980	47.87	---	-0.17	47.70	---	74.00	54.00	-26.30	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	22.41	peak	13.30	35.71	40.00	-4.29	115	150
45.6914	15.11	peak	14.20	29.31	40.00	-10.69	100	150
806.4130	8.08	peak	26.53	34.61	46.00	-11.39	130	150
931.2625	7.52	peak	28.22	35.74	46.00	-10.26	125	150

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)
3561.1220	44.65	---	-1.66	42.99	---	74.00	54.00	-31.01	155	150
7791.5830	48.14	---	0.08	48.22	---	74.00	54.00	-25.78	135	150

850 Band Idle Mode_ DC 3.6 V

Mode: Idle Temperature: 26 ˚C Engineer: Danny
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)
30.5411	11.97	peak	13.30	25.27	40.00	-14.73	100	150
285.3908	16.57	peak	15.86	32.43	46.00	-13.57	105	150
705.4110	9.12	peak	24.94	34.06	46.00	-11.94	125	150
915.8317	7.93	peak	27.93	35.86	46.00	-10.14	130	150

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)
3543.0860	45.19	---	-1.69	43.50	---	74.00	54.00	-30.50	145	150
7543.0860	47.14	---	0.14	47.28	---	74.00	54.00	-26.72	150	150

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	22.85	peak	13.30	36.15	40.00	-3.85	110	150
46.2325	13.33	peak	14.22	27.55	40.00	-12.45	120	150
732.0642	8.85	peak	25.41	34.26	46.00	-11.74	140	150
925.6513	8.61	peak	28.12	36.73	46.00	-9.27	145	150

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)
3567.1340	45.47	---	-1.65	43.82	---	74.00	54.00	-30.18	135	150
7767.5350	48.06	---	0.10	48.16	---	74.00	54.00	-25.84	140	150

CH512_ DC 3.7 V

Mode: Active ch 512 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
259.9600	-103.88	32.05	-71.83	-13.00	-58.83	110	150
876.5531	-99.40	35.50	-63.90	-13.00	-50.90	125	150
3705.4110	-51.90	11.63	-40.27	-13.00	-27.27	140	150
5547.0940	-33.24	12.76	-20.48	-13.00	-7.48	145	150
7406.8140	-54.05	11.59	-42.46	-13.00	-29.46	155	150
9246.9940	-75.81	31.12	-44.69	-13.00	-31.69	165	150
11101.2000	-81.88	34.61	-47.27	-13.00	-34.27	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-92.07	23.82	-68.25	-13.00	-55.25	120	150
879.3587	-95.92	34.91	-61.01	-13.00	-48.01	140	150
3705.4110	-46.88	9.98	-36.90	-13.00	-23.90	140	150
5547.0940	-35.47	10.90	-24.57	-13.00	-11.57	140	150
7406.8140	-51.95	10.97	-40.98	-13.00	-27.98	160	150
9246.9940	-73.26	30.21	-43.05	-13.00	-30.05	155	150
11103.2060	-81.45	33.48	-47.97	-13.00	-34.97	140	150

CH512_ DC 3.6 V

Mode: Active ch 512 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
297.2946	-103.56	31.39	-72.17	-13.00	-59.17	105	150
879.3587	-99.30	35.46	-63.84	-13.00	-50.84	120	150
3705.4110	-53.36	11.63	-41.73	-13.00	-28.73	150	150
5547.0940	-33.72	12.76	-20.96	-13.00	-7.96	150	150
7406.8140	-55.16	11.59	-43.57	-13.00	-30.57	160	150
9246.9940	-76.34	31.12	-45.22	-13.00	-32.22	160	150
11103.2060	-79.18	34.60	-44.58	-13.00	-31.58	155	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.96	23.82	-68.14	-13.00	-55.14	105	150
879.3587	-96.53	34.91	-61.62	-13.00	-48.62	135	150
3705.4110	-48.70	9.98	-38.72	-13.00	-25.72	155	150
5547.0940	-35.64	10.90	-24.74	-13.00	-11.74	155	150
7406.8140	-51.46	10.97	-40.49	-13.00	-27.49	135	150
9246.9940	-77.51	30.21	-47.30	-13.00	-34.30	140	150
11103.2060	-76.18	33.48	-42.7	-13.00	-29.70	120	150

CH661_ DC 3.7 V

Mode: Active ch 661 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
285.3908	-102.31	29.68	-72.63	-13.00	-59.63	100	150
879.3587	-99.04	35.46	-63.58	-13.00	-50.58	120	150
3765.5310	-44.25	11.91	-32.34	-13.00	-19.34	160	150
5635.2700	-46.17	12.36	-33.81	-13.00	-20.81	140	150
7519.0380	-52.84	11.92	-40.92	-13.00	-27.92	165	150
9399.2990	-76.16	30.08	-46.08	-13.00	-33.08	145	150
11284.0680	-80.03	34.52	-45.51	-13.00	-32.51	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	-91.89	23.92	-67.97	-13.00	-54.97	120	150
879.3587	-96.06	34.91	-61.15	-13.00	-48.15	125	150
3765.5310	-44.33	9.62	-34.71	-13.00	-21.71	140	150
5643.2870	-38.45	10.50	-27.95	-13.00	-14.95	140	150
7527.0540	-50.84	11.33	-39.51	-13.00	-26.51	145	150
9399.2990	-69.91	29.88	-40.03	-13.00	-27.03	155	150
11284.0680	-79.26	32.91	-46.35	-13.00	-33.35	140	150

CH661_ DC 3.6 V

Mode: Active ch 661 Temperature: 26 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
259.9600	-104.16	32.05	-72.11	-13.00	-59.11	115	150
876.5531	-99.08	35.50	-63.58	-13.00	-50.58	135	150
3765.5310	-43.79	11.91	-31.88	-13.00	-18.88	150	150
5643.2870	-40.24	12.40	-27.84	-13.00	-14.84	155	150
7519.0380	-51.05	11.92	-39.13	-13.00	-26.13	140	150
9399.2990	-75.99	30.08	-45.91	-13.00	-32.91	155	150
11284.0680	-79.17	34.52	-44.65	-13.00	-31.65	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.16	23.82	-67.34	-13.00	-54.34	105	150
877.9560	-95.43	34.85	-60.58	-13.00	-47.58	140	150
3759.5190	-44.81	9.65	-35.16	-13.00	-22.16	130	150
5643.2870	-39.57	10.50	-29.07	-13.00	-16.07	140	150
7527.0540	-50.37	11.33	-39.04	-13.00	-26.04	135	150
9399.2990	-67.40	29.88	-37.52	-13.00	-24.52	160	150
11284.0680	-80.94	32.91	-48.03	-13.00	-35.03	165	150

CH810_ DC 3.7 V

Mode: Active ch 810 Temperature: 26 ˚C Engineer: Jay
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
258.8778	-104.38	31.80	-72.58	-13.00	-59.58	95	150
877.9560	-98.47	35.48	-62.99	-13.00	-49.99	135	150
3819.6390	-44.63	12.20	-32.43	-13.00	-19.43	160	150
5731.4630	-42.20	13.15	-29.05	-13.00	-16.05	135	150
7639.2790	-48.25	11.58	-36.67	-13.00	-23.67	140	150
9551.6030	-76.59	31.71	-44.88	-13.00	-31.88	130	150
11464.9300	-77.74	34.80	-42.94	-13.00	-29.94	160	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
299.4590	-104.14	35.47	-68.67	-13.00	-55.67	90	150
877.9560	-96.40	34.85	-61.55	-13.00	-48.55	110	150
3819.6390	-39.53	9.77	-29.76	-13.00	-16.76	155	150
5731.4630	-39.96	10.88	-29.08	-13.00	-16.08	165	150
7639.2790	-43.90	11.07	-32.83	-13.00	-19.83	170	150
9551.6030	-71.59	29.21	-42.38	-13.00	-29.38	140	150
11464.9300	-80.31	33.12	-47.19	-13.00	-34.19	130	150

CH810_ DC 3.6 V

Mode: Active ch 810 Temperature: 26 ˚C
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
263.2064	-103.65	31.55	-72.10	-13.00	-59.10	105	150
879.3587	-99.17	35.46	-63.71	-13.00	-50.71	130	150
3819.6390	-44.15	12.20	-31.95	-13.00	-18.95	145	150
5731.4630	-40.70	13.15	-27.55	-13.00	-14.55	135	150
7639.2790	-48.24	11.58	-36.66	-13.00	-23.66	145	150
9551.6030	-78.06	31.71	-46.35	-13.00	-33.35	135	150
11464.9300	-78.14	34.80	-43.34	-13.00	-30.34	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	-91.70	23.82	-67.88	-13.00	-54.88	115	150
876.5531	-93.44	34.80	-58.64	-13.00	-45.64	125	150
3819.6390	-39.24	9.77	-29.47	-13.00	-16.47	140	150
5731.4630	-39.25	10.88	-28.37	-13.00	-15.37	155	150
7639.2790	-45.22	11.07	-34.15	-13.00	-21.15	140	150
9551.6030	-72.57	29.21	-43.36	-13.00	-30.36	135	150
11464.9300	-80.41	33.12	-47.29	-13.00	-34.29	140	150

1900 Band Idle Mode_ DC 3.7 V

Mode: Idle Temperature: 26 ˚C Engineer: Jay
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)
193.4068	15.02	peak	12.32	27.34	43.50	-16.16	110	150
300.0000	16.70	peak	16.23	32.93	46.00	-13.07	105	150
774.1483	6.82	peak	26.10	32.92	46.00	-13.08	120	150
879.3587	9.34	peak	27.31	36.65	46.00	-9.35	140	150

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)
3627.2550	45.25	---	-1.54	43.71	---	74.00	54.00	-30.29	130	150
7551.1020	47.29	---	0.16	47.45	---	74.00	54.00	-26.55	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	22.92	peak	13.30	36.22	40.00	-3.78	110	150
45.6914	14.35	peak	14.20	28.55	40.00	-11.45	95	150
789.5792	7.29	peak	26.33	33.62	46.00	-12.38	130	150
956.5130	7.32	peak	28.65	35.97	46.00	-10.03	120	150

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)
3543.0860	45.60	---	-1.69	43.91	---	74.00	54.00	-30.09	145	150
7607.2140	47.78	---	0.27	48.05	---	74.00	54.00	-25.95	155	150

1900 Band Idle Mode_ DC 3.6 V

Mode: Idle

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	11.59	peak	13.30	24.89	40.00	-15.11	120	150
300.0000	16.66	peak	16.23	32.89	46.00	-13.11	110	150
805.0100	4.45	peak	26.52	30.97	46.00	-15.03	120	150
879.3587	5.45	peak	27.31	32.76	46.00	-13.24	130	150

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)
3777.5550	44.88	---	-1.38	43.50	---	74.00	54.00	-30.50	135	150
6749.4990	47.15	---	0.15	47.30	---	74.00	54.00	-26.70	145	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.5411	22.45	peak	13.30	35.75	40.00	-4.25	115	150
46.2325	13.26	peak	14.22	27.48	40.00	-12.52	100	150
816.2325	7.93	peak	26.60	34.53	46.00	-11.47	135	150
900.4008	8.24	peak	27.65	35.89	46.00	-10.11	120	150

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)
3627.2550	44.52	---	-1.54	42.98	---	74.00	54.00	-31.02	150	150
7615.2310	48.13	---	0.26	48.39	---	74.00	54.00	-25.61	150	150

Note: Please refer to appendix for plot data.

7.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

7.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917(a) requires that any emission be attenuated below the transmitter power at least 43 + 10 log P (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following:

Maximum transmitter radiated power: P=0.3013 watt

Required attenuation: A=43 + 10 log P

Limit for Spurious Emissions at Antenna Terminals: L=P-A=-13dBm

Test equipment: ETSTW-RE 003, ETSTW-RE 017, ETSTW-RE 018, ETSTW-RE 042, ETSTW-RE 043, ETSTW-GSM 02

7.5 Test result of band edge emissions

RBW: 3 kHz, VBW: 10 kHz

850 MHz band

Model: AAGPS2G-V1 Date: 2009/11/14
Mode: 850band Ch128 Temperature: 24 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
823.9960	-57.77	34.76	-23.01	-13.00	-10.01

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
823.9900	-60.82	33.02	-27.80	-13.00	-14.80

Mode: 850band Ch251 Temperature: 24 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
849.0100	-70.46	35.83	-34.63	-13.00	-21.63

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
849.0160	-67.48	33.71	-33.77	-13.00	-20.77

RBW: 3 kHz, VBW: 10 kHz

1900 MHz band

Model: AAGPS2G-V1 Date: 2009/11/14
Mode: 1900band Ch512 Temperature: 24 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
1849.9720	-59.67	44.70	-14.97	-13.00	-1.97

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
1849.9960	-62.70	43.71	-18.99	-13.00	-5.99

Mode: 1900band Ch810 Temperature: 24 ˚C Engineer: Danny
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
1910.0040	-58.78	44.25	-14.53	-13.00	-1.53

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)
1910.0040	-63.08	43.71	-19.37	-13.00	-6.37

Note: Please refer to appendix for plot data.

Test equipment: ETSTW-RE 003, ETSTW-RE 017, ETSTW-RE 018, ETSTW-RE 042, ETSTW-RE 043, ETSTW-GSM 02

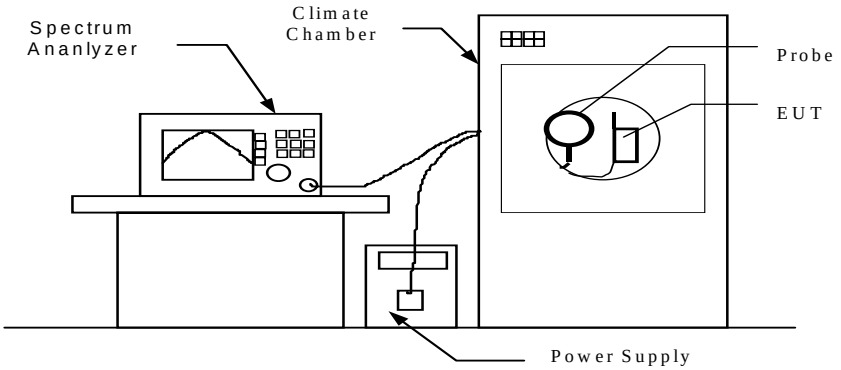
8. Frequency Stability

8.1 Test procedure

☑ The equipment under test was supplied with rated power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.
After the temperature stabilized the frequency output was recorded from the counter.

☐ An external variable power supply was used to supply nominal voltage and 85% to 115% of nominal voltage to the EUT under room temperature. Record the frequencies measured from the counter.

☑ End point voltage: For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer. Then record the frequencies measured from the counter.



8.2 Test Results

8.2.1 Frequency Stability vs. Temperature

CH128 824.2 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	0.029	0.035	±2.5
	-20	-0.012	-0.015	
	-10	0.039	0.047	
	0	-0.013	-0.016	
	10	0.024	0.029	
	20	-0.017	-0.021	
	30	-0.018	-0.022	
	40	0.015	0.018	
	50	0.012	0.015	

CH188 836.2 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	0.036	0.043	±2.5
	-20	-0.017	-0.020	
	-10	0.040	0.048	
	0	0.022	0.026	
	10	0.028	0.033	
	20	-0.024	-0.029	
	30	-0.016	-0.019	
	40	-0.013	-0.016	
	50	0.010	0.012	

CH251 848.8 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	0.019	0.022	±2.5
	-20	-0.013	-0.015	
	-10	0.042	0.049	
	0	0.031	0.037	
	10	0.032	0.038	
	20	-0.022	-0.026	
	30	-0.013	-0.015	
	40	0.018	0.021	
	50	0.016	0.019	

CH512 1850.2 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	-0.029	-0.016	±2.5
	-20	-0.031	-0.017	
	-10	-0.036	-0.019	
	0	-0.042	-0.023	
	10	-0.033	-0.018	
	20	-0.030	-0.016	
	30	-0.036	-0.019	
	40	-0.034	-0.018	
	50	-0.031	-0.017	

CH661 1880.0 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	-0.034	-0.018	±2.5
	-20	-0.032	-0.017	
	-10	-0.033	-0.018	
	0	-0.037	-0.020	
	10	-0.030	-0.016	
	20	-0.026	-0.014	
	30	-0.031	-0.016	
	40	-0.031	-0.016	
	50	-0.034	-0.018	

CH810 1909.8 MHz

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
DC 3.7 V	-30	-0.028	-0.015	±2.5
	-20	-0.027	-0.014	
	-10	-0.028	-0.015	
	0	-0.040	-0.021	
	10	-0.036	-0.019	
	20	-0.036	-0.019	
	30	-0.030	-0.016	
	40	-0.038	-0.020	
	50	-0.035	-0.018	

8.2.2 Frequency Stability vs. Voltage

CH128

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	0.021	0.025	±2.5

CH188

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	-0.015	-0.018	±2.5

CH251

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	0.026	0.031	±2.5

CH512

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	-0.040	-0.022	±2.5

CH661

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	-0.034	-0.018	±2.5

CH810

Supplied Voltage	Temperature (°C)	Frequency Drift (kHz)	Frequency Drift (ppm)	Limit (ppm)
End Point Voltage DC 3.6 V	25	-0.039	-0.020	±2.5

Test equipment: ETSTW-CE009, ETSTW-RE055, ETSTW-GSM 02

Appendix

Measurement diagrams

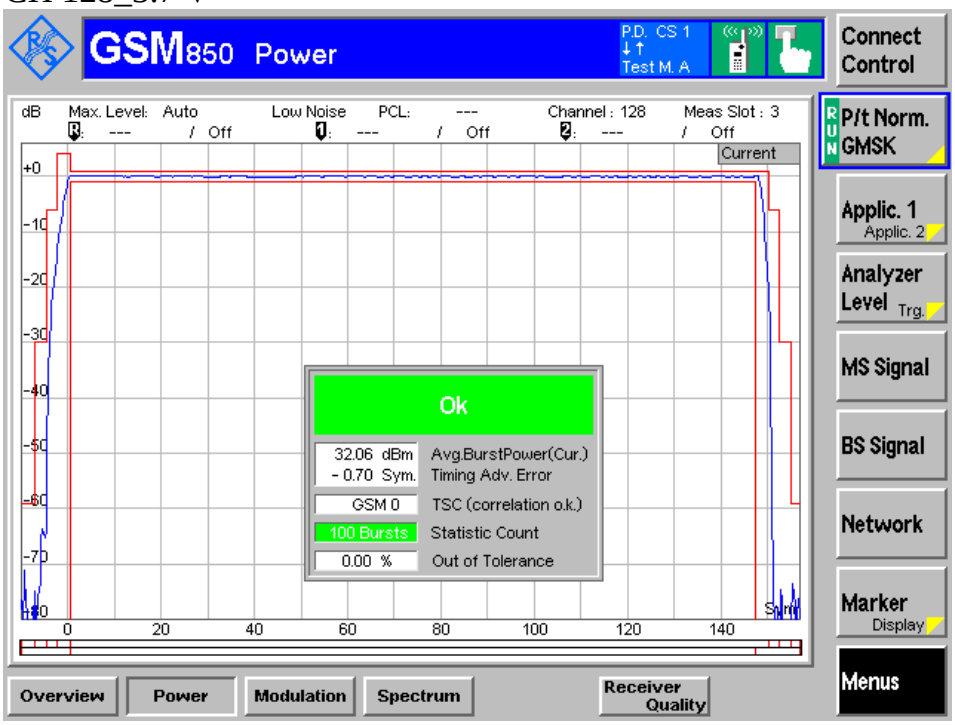
1. RF Power Output
2. Occupied Bandwidth / Emission Mask
3. Spurious Emissions at Antenna Terminals
4. Filed Strength of Spurious Emission
5. Band edge emissions

Appendix

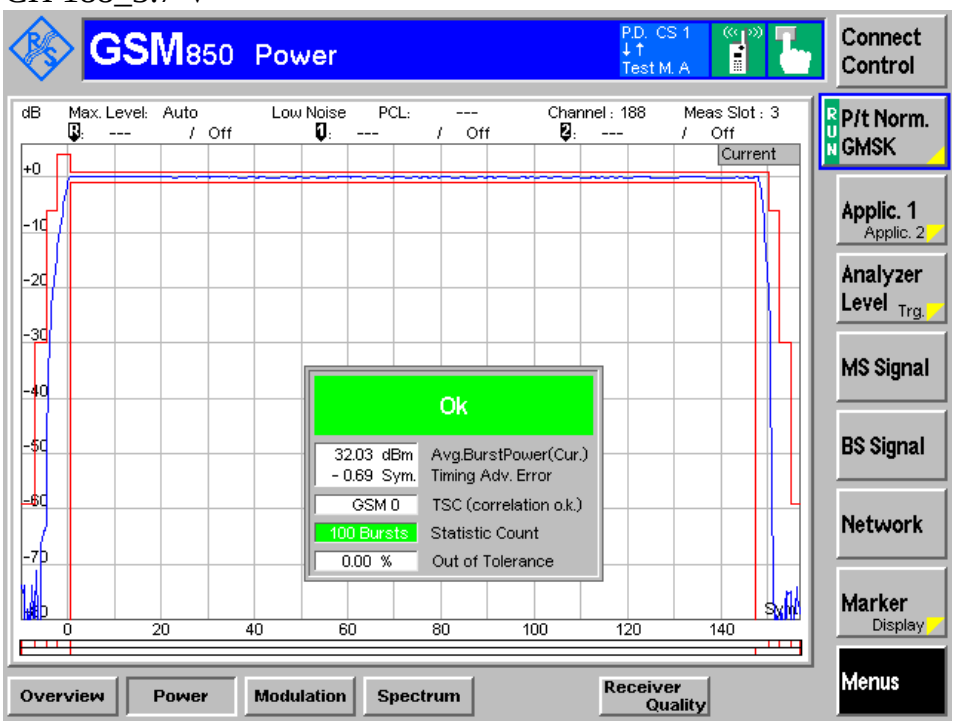
Measurement diagrams

1. RF Power Output
2. Occupied Bandwidth / Emission Mask
3. Spurious Emissions at Antenna Terminals
4. Filed Strength of Spurious Emission
5. Band edge emissions

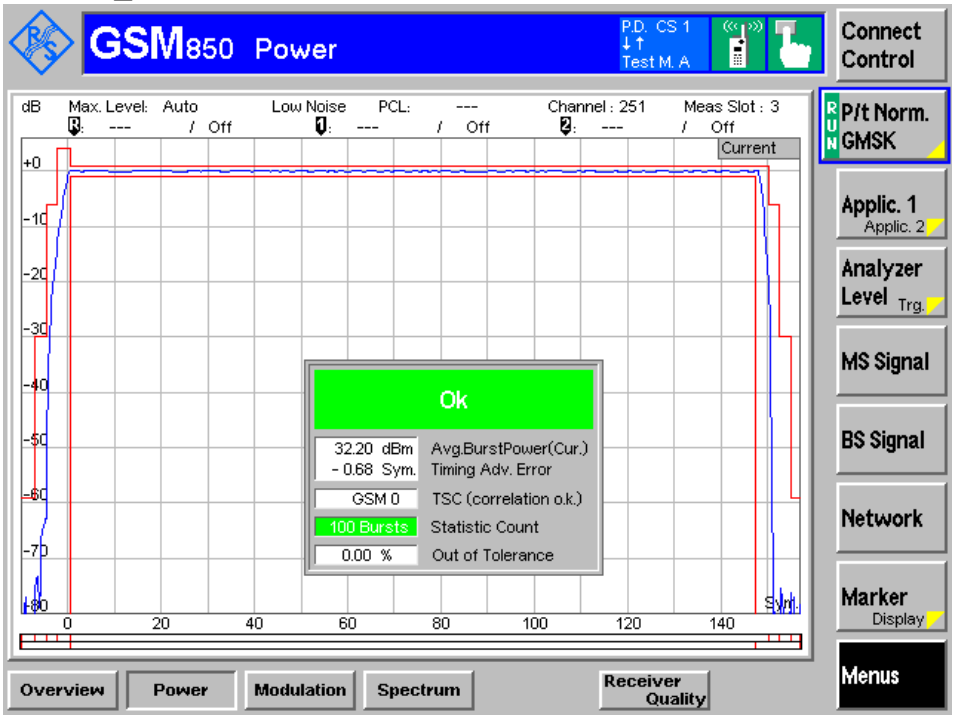
RF Power Output
Conducted Measurement
850 band_ CH 128_3.7 V



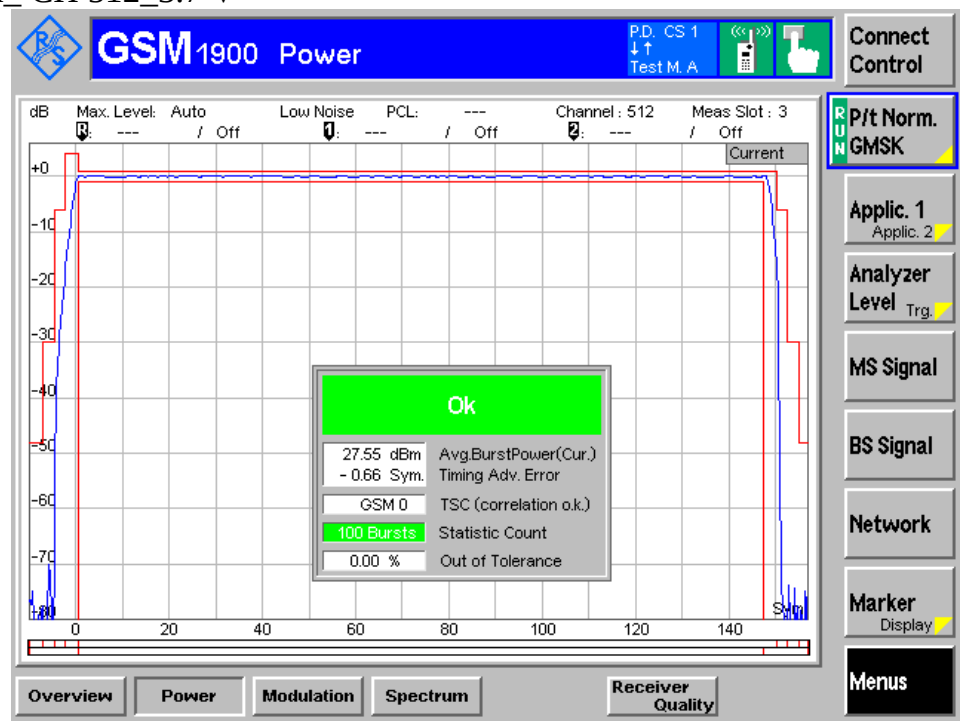
850 band_ CH 188_3.7 V



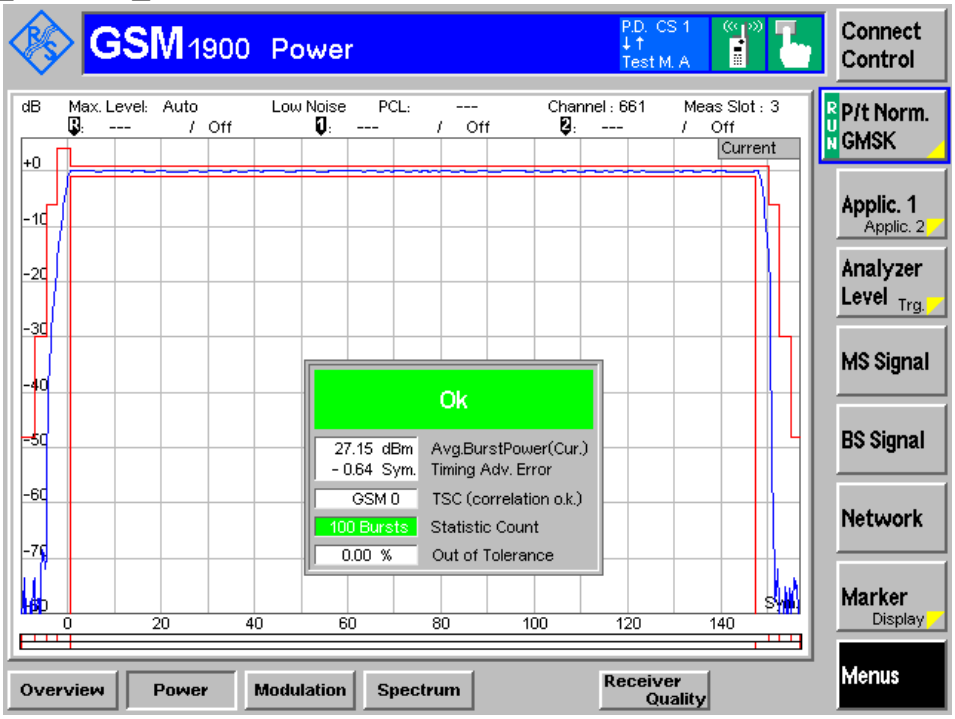
850 band_ CH 251_3.7 V



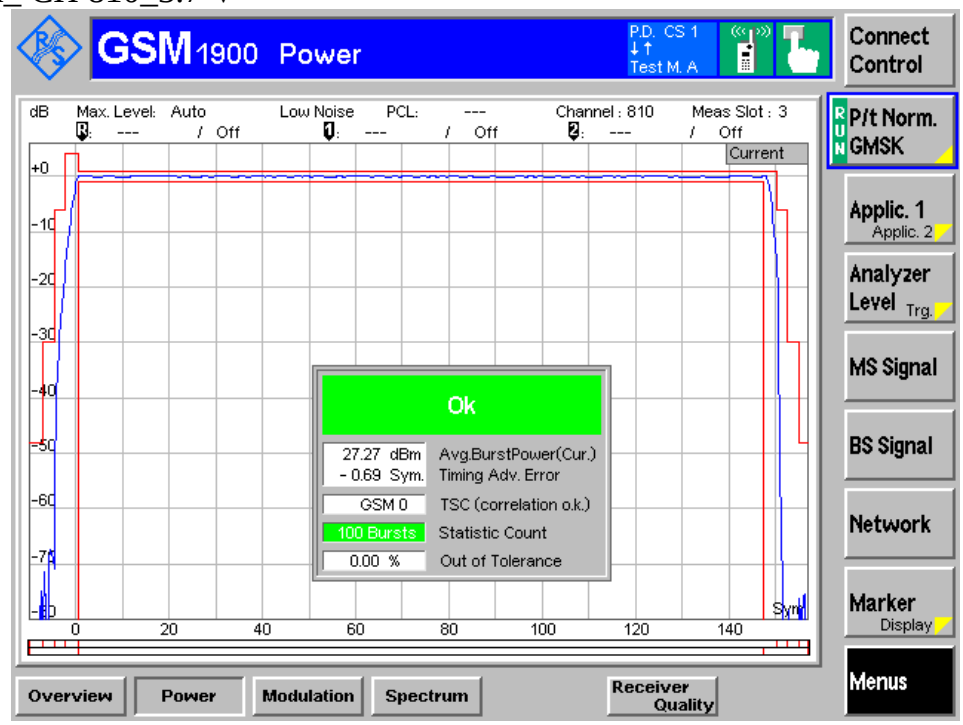
1900 band_ CH 512_3.7 V



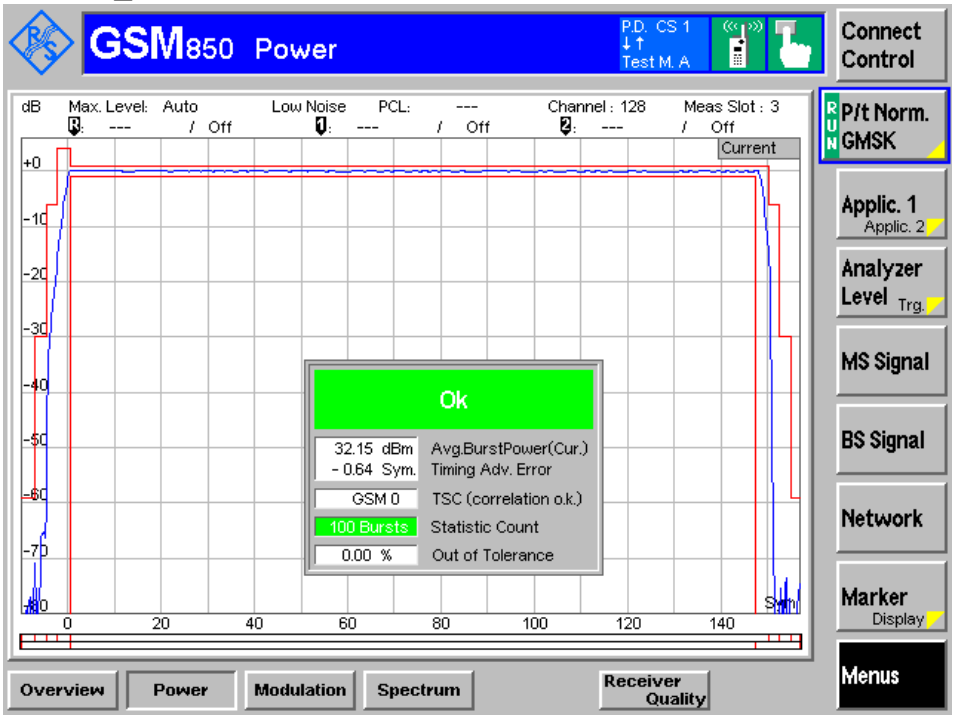
1900 band_ CH 661_3.7 V



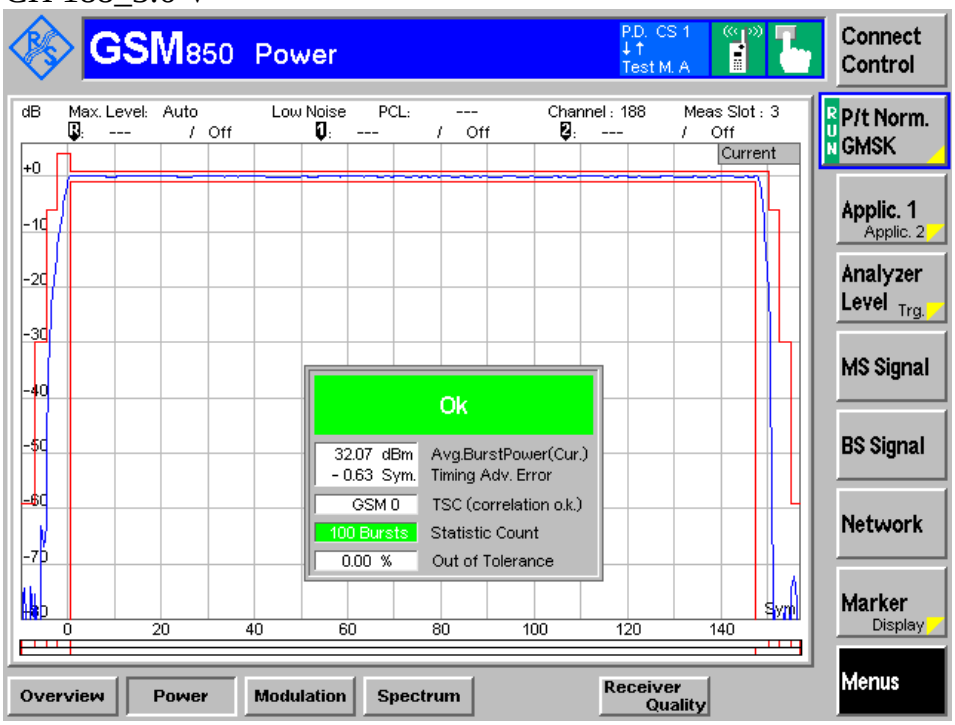
1900 band_ CH 810_3.7 V



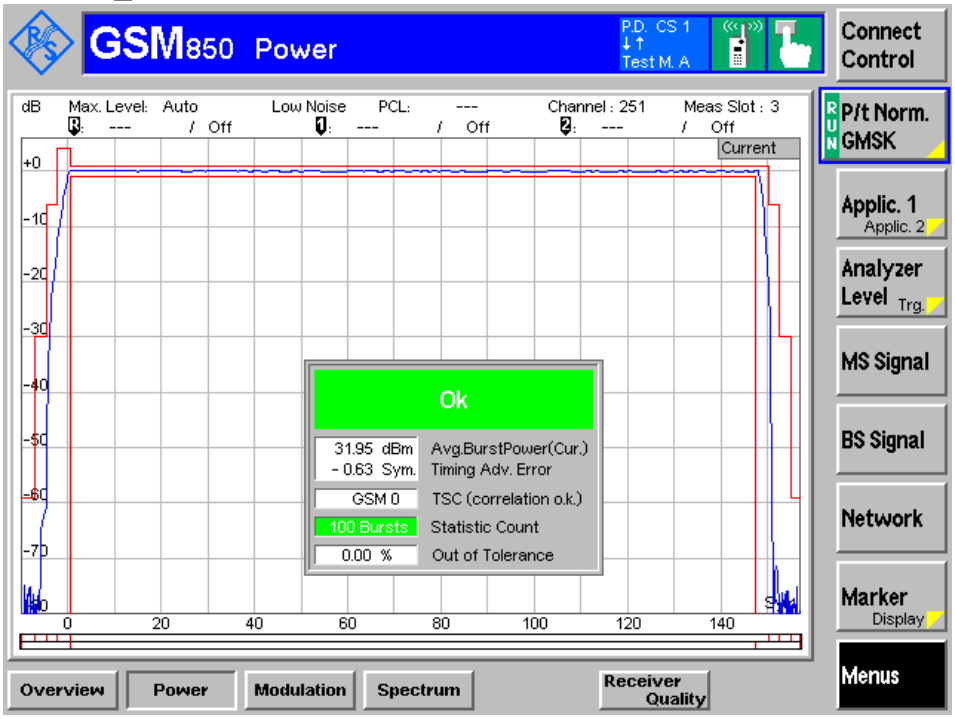
850 band_ CH 128_3.6 V



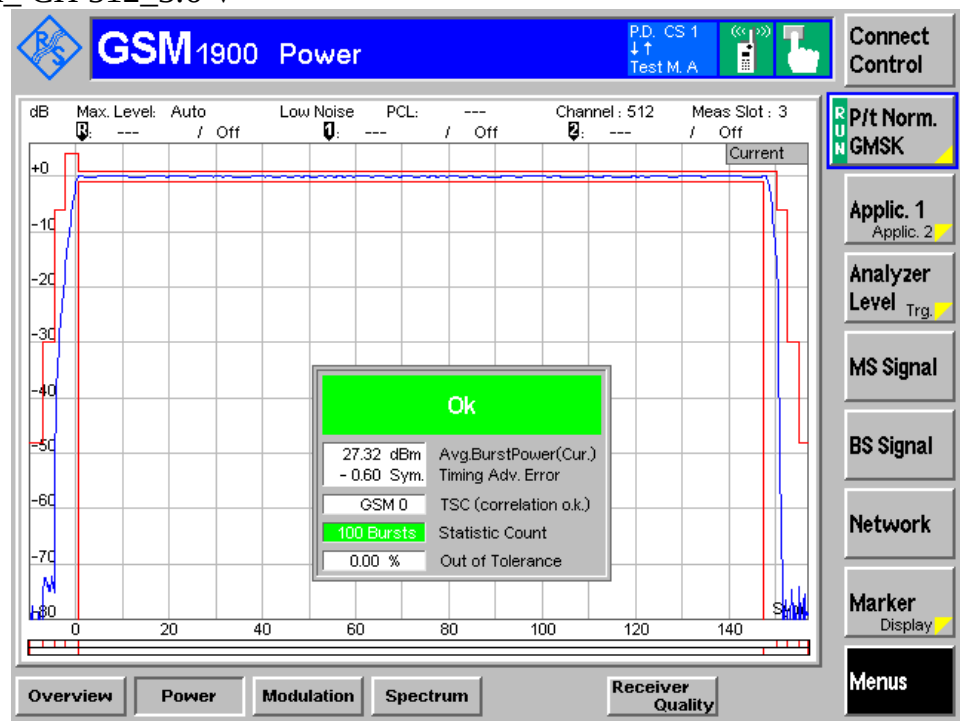
850 band_ CH 188_3.6 V



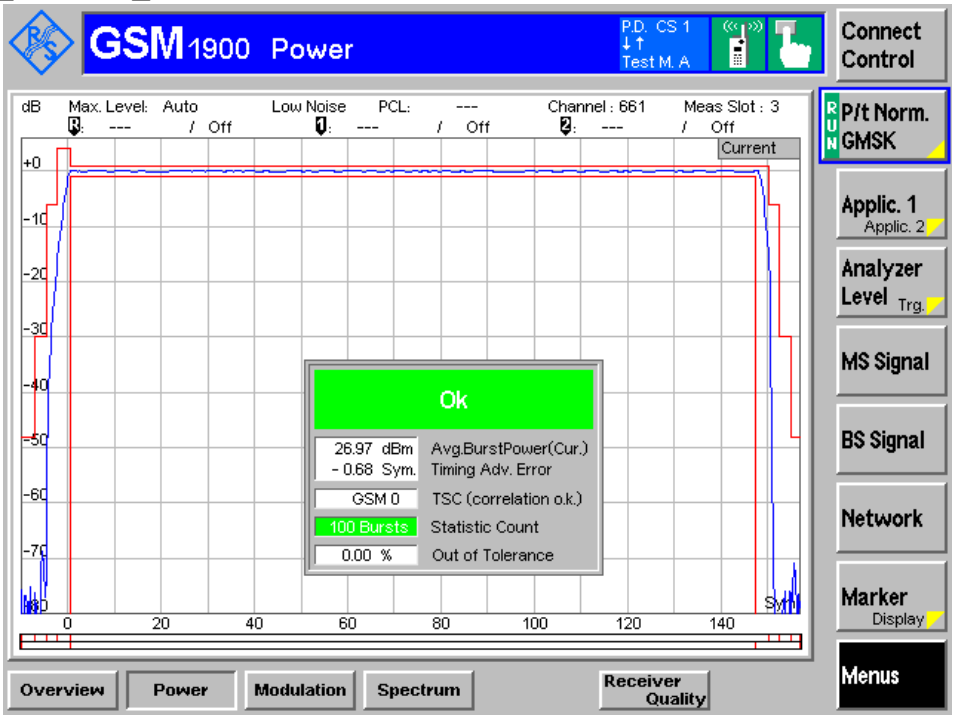
850 band_ CH 251_3.6 V



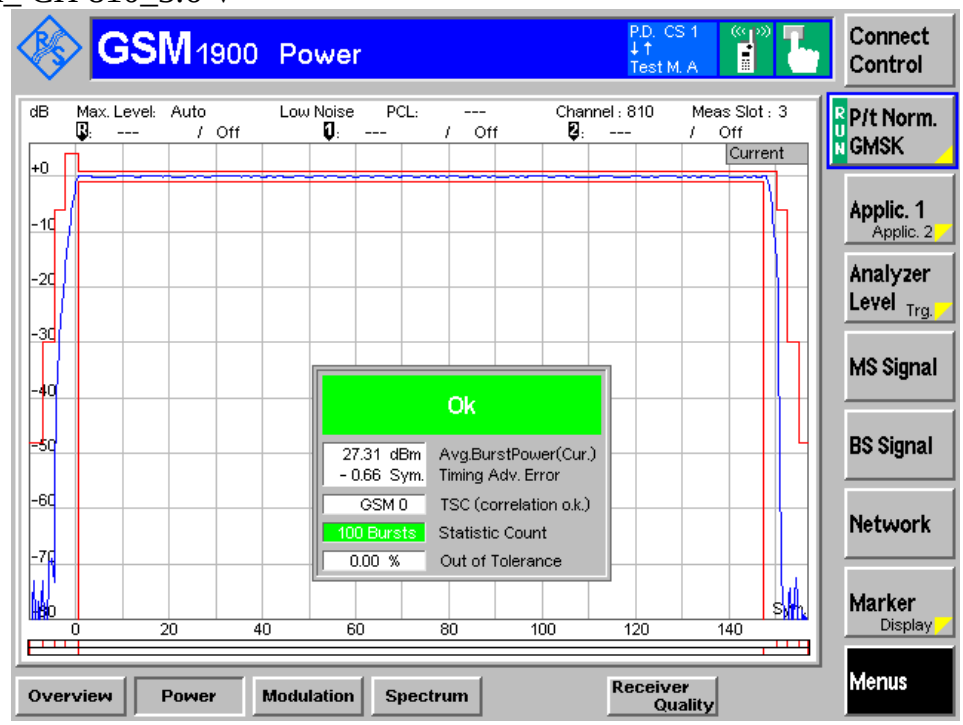
1900 band_ CH 512_3.6 V



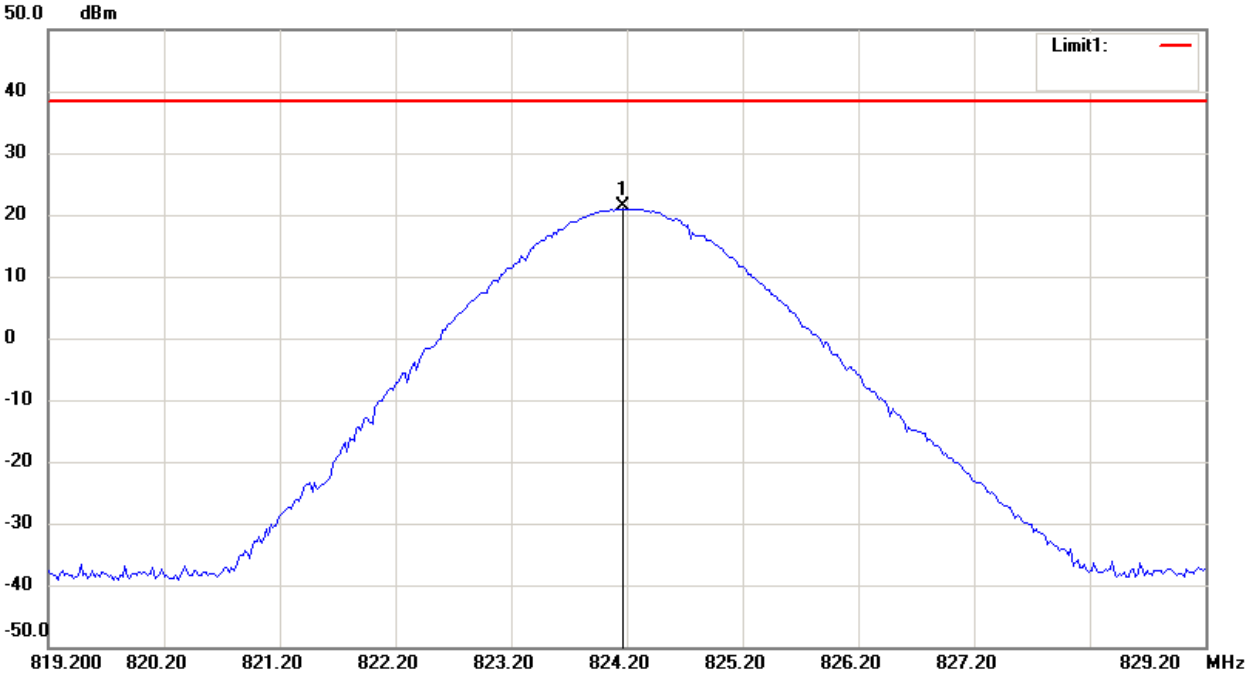
1900 band_ CH 661_3.6 V



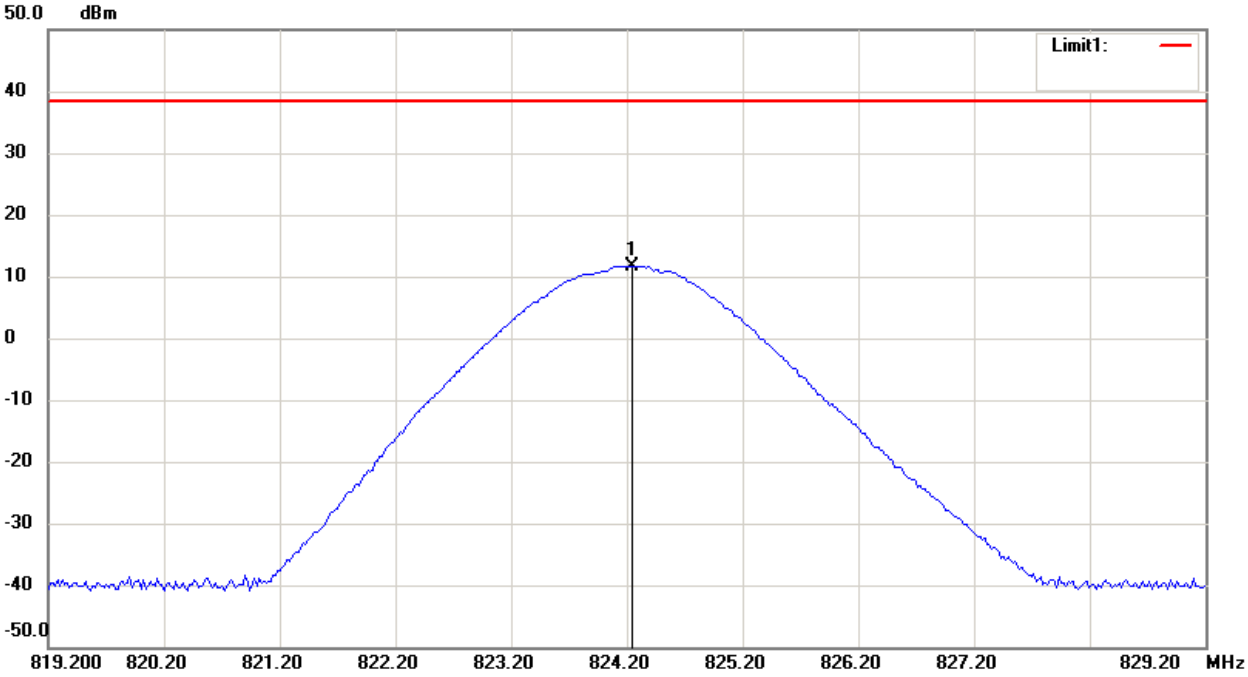
1900 band_ CH 810_3.6 V



Radiated Measurement
850 band_ CH 128_3.7 V
Antenna Polarization H



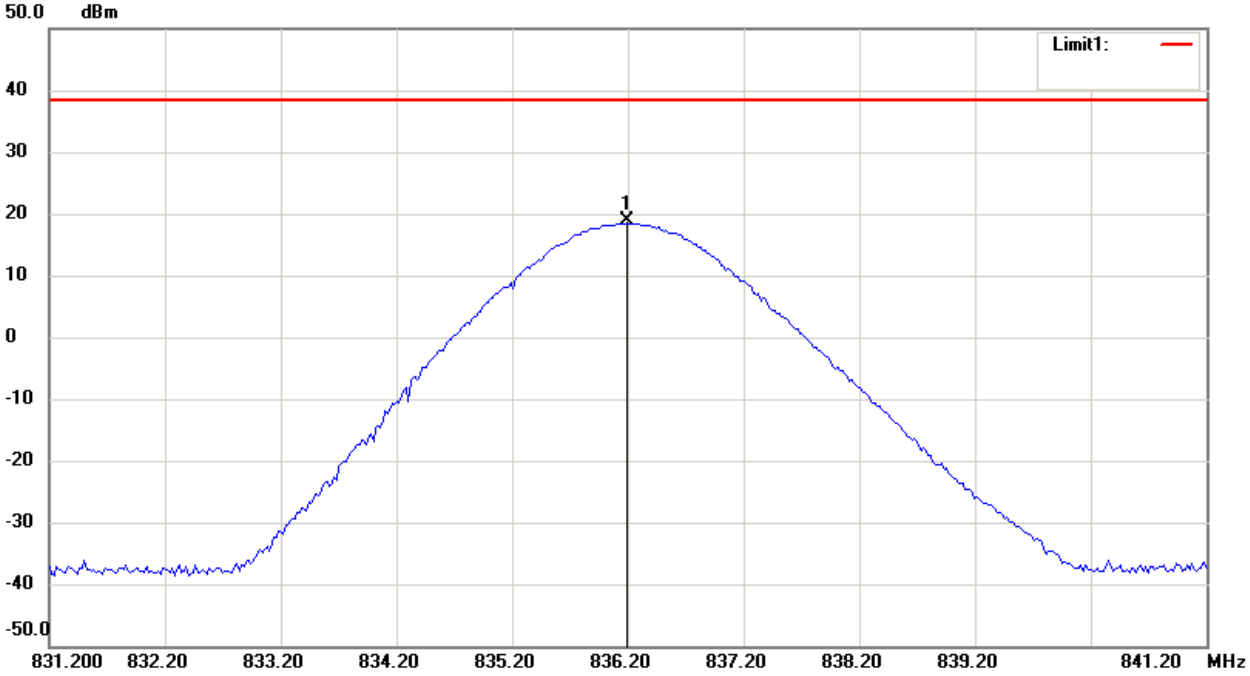
Antenna Polarization V



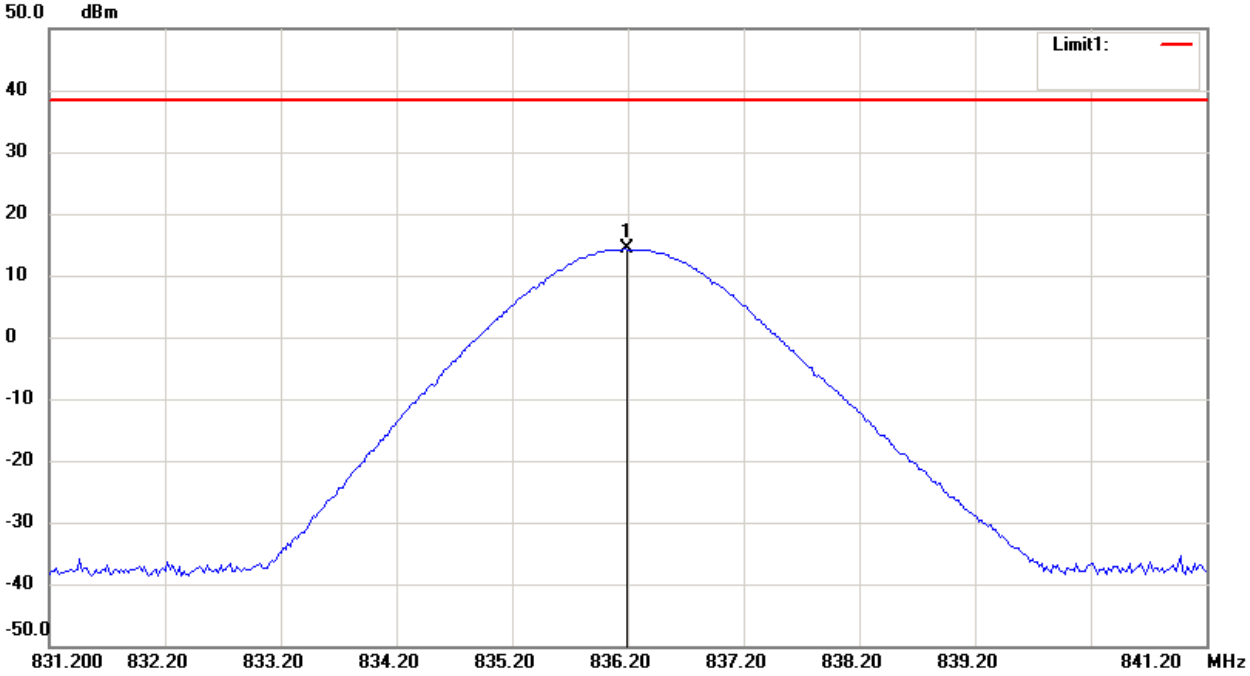
Note:
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to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

850 band_ CH 188_3.7 V

Antenna Polarization H



Antenna Polarization V

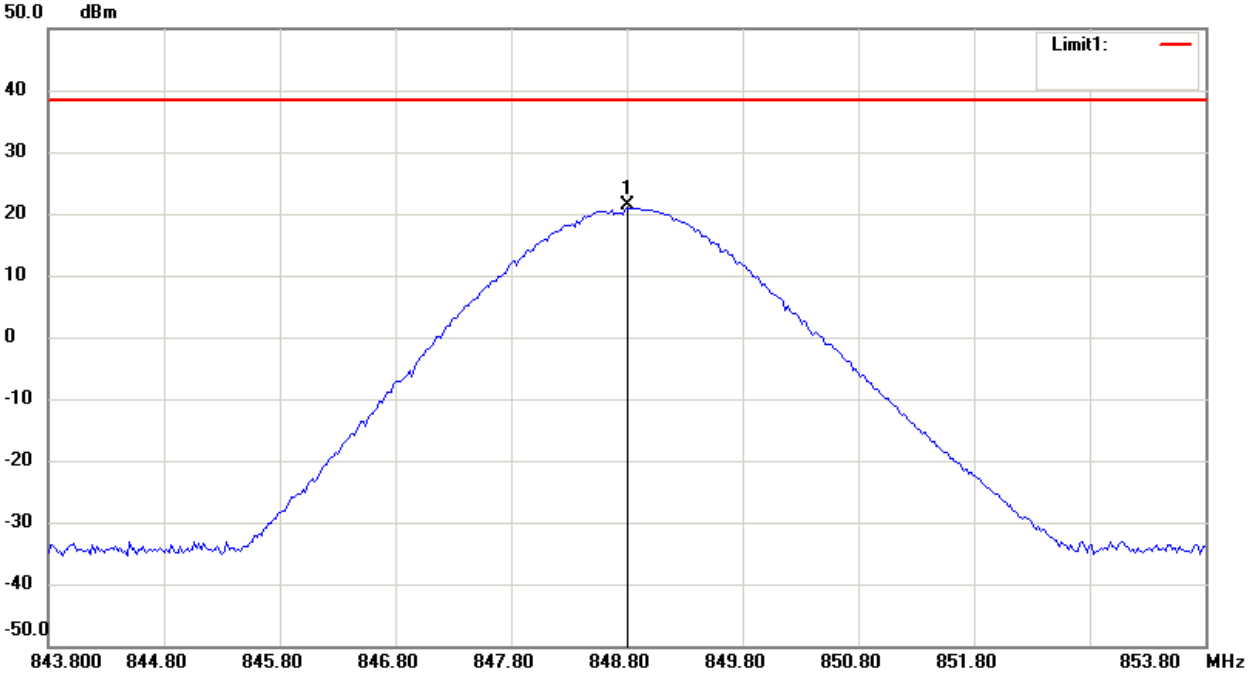


Note:

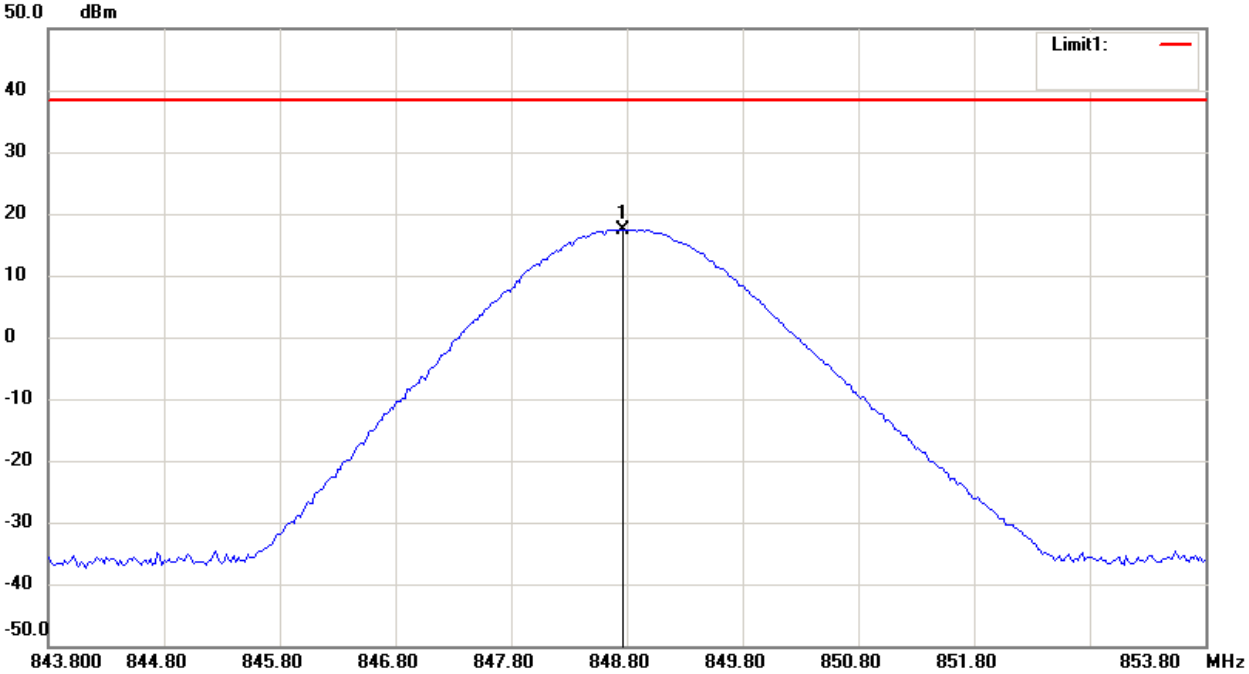
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

850 band_ CH 251_3.7 V

Antenna Polarization H



Antenna Polarization V

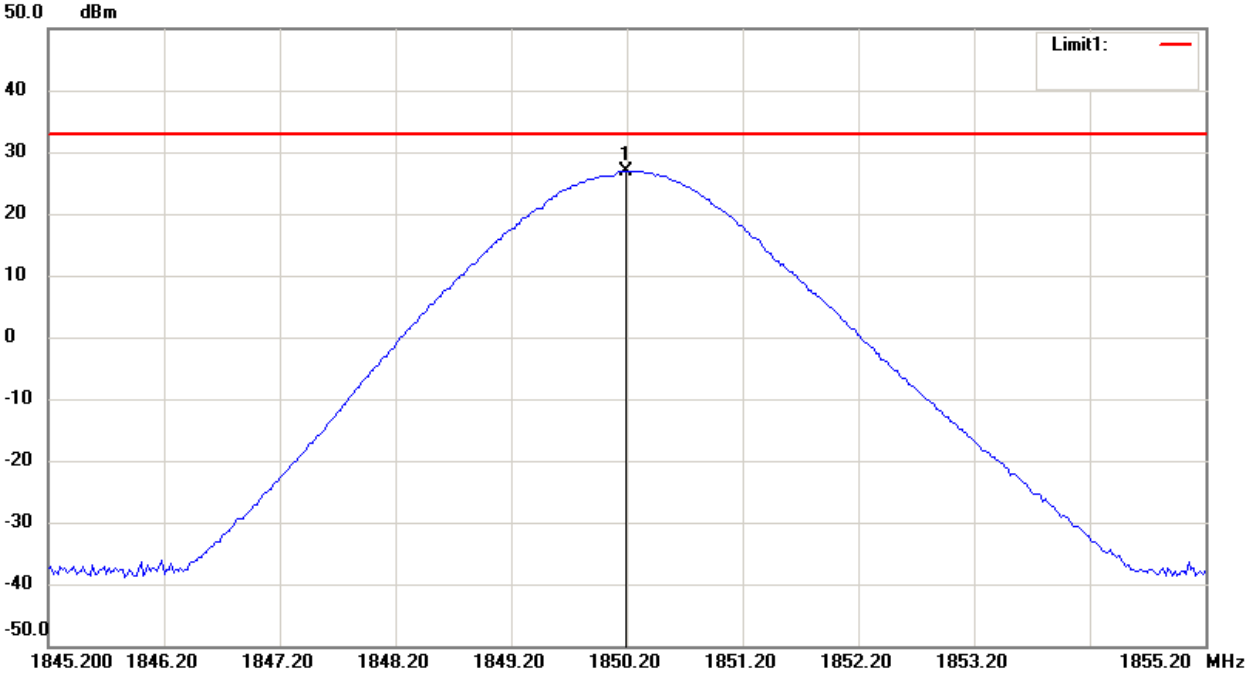


Note:

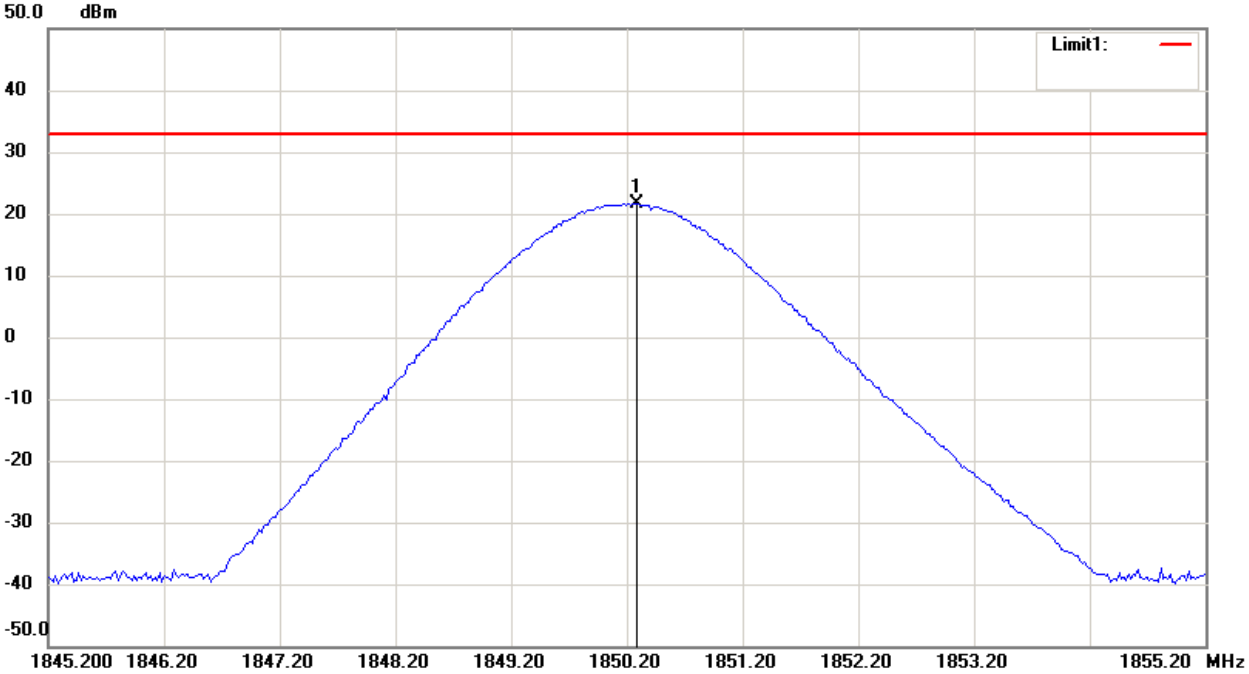
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 512_3.7 V

Antenna Polarization H



Antenna Polarization V

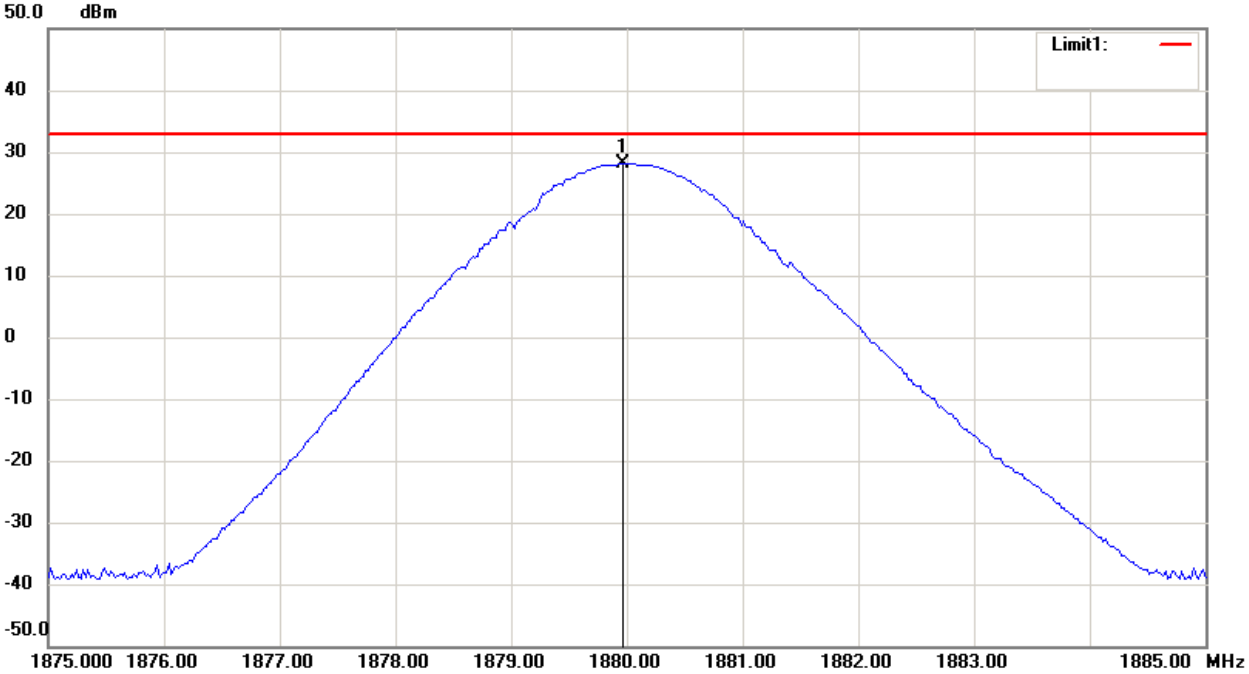


Note:

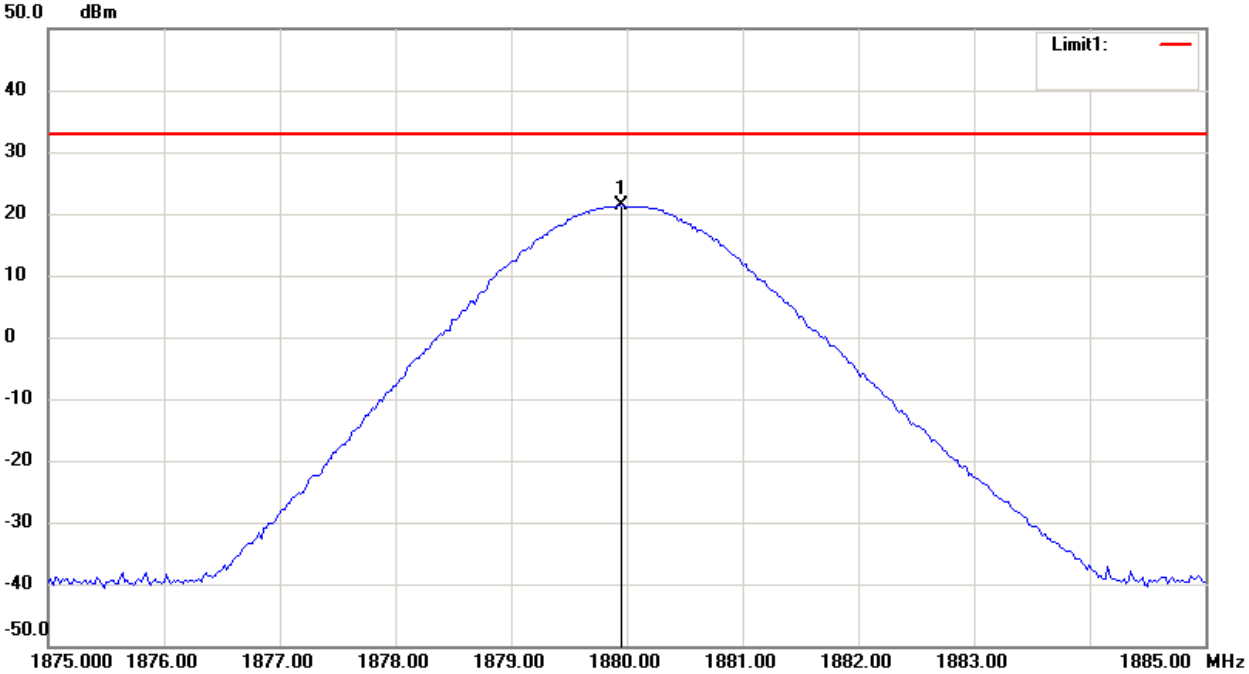
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 661_3.7 V

Antenna Polarization H



Antenna Polarization V

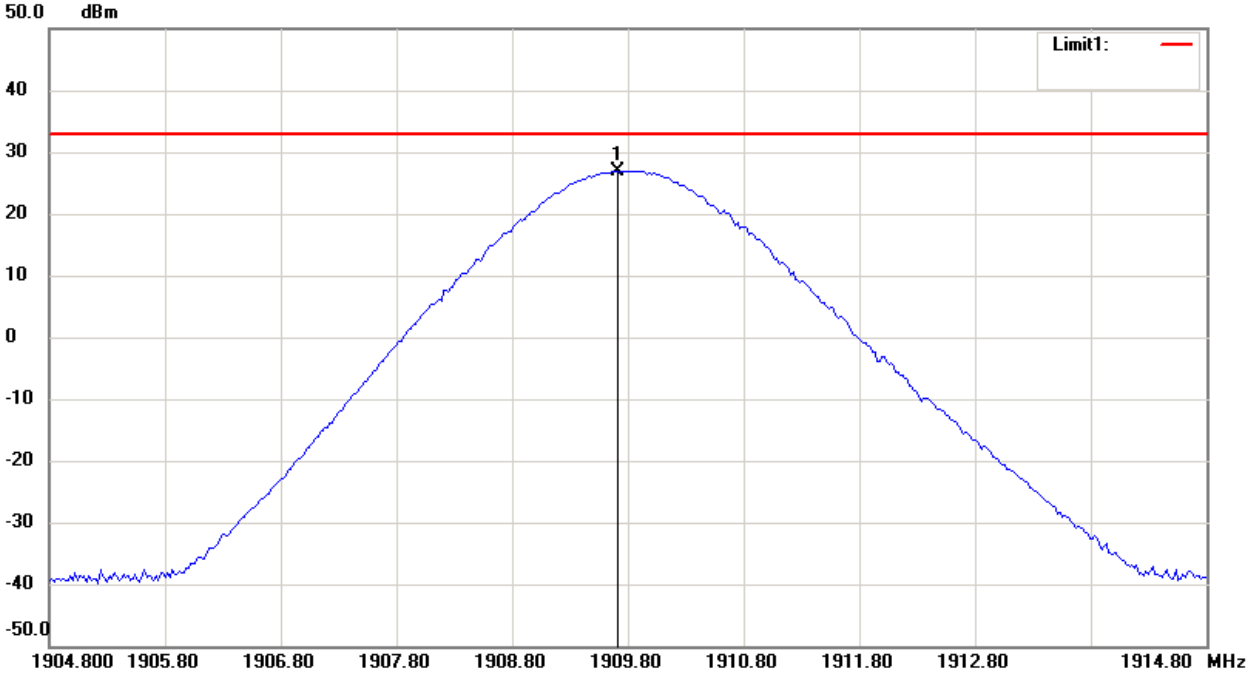


Note:

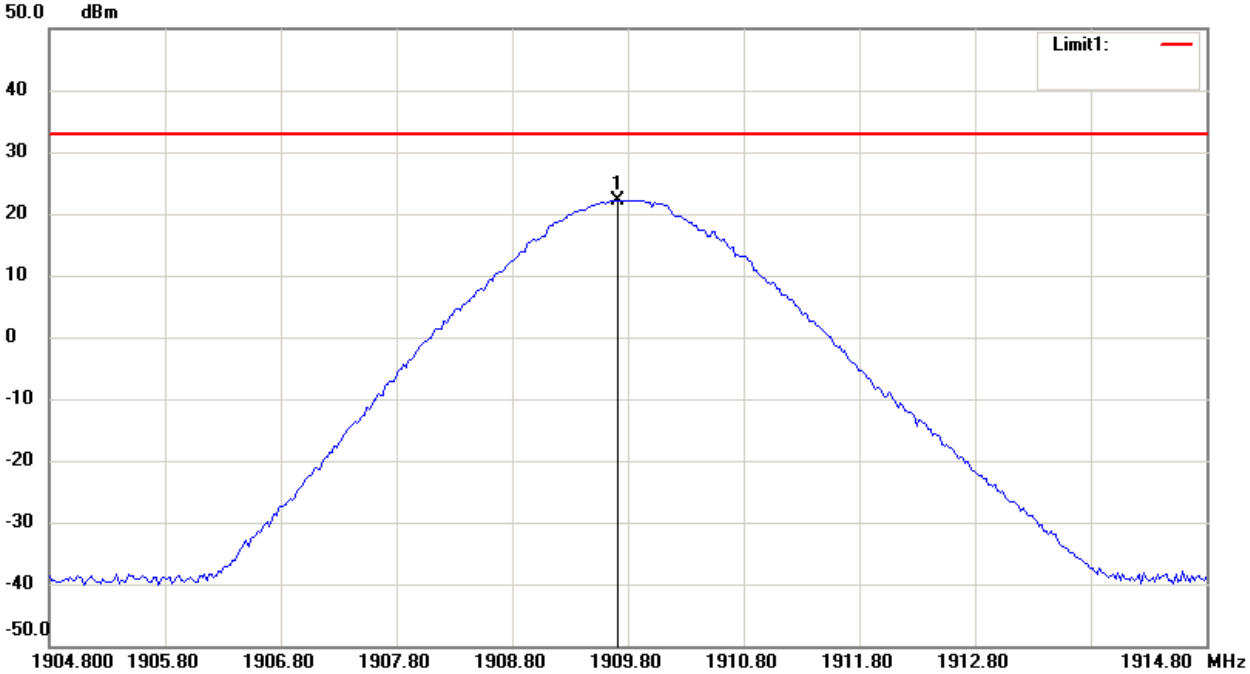
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 810_3.7 V

Antenna Polarization H



Antenna Polarization V

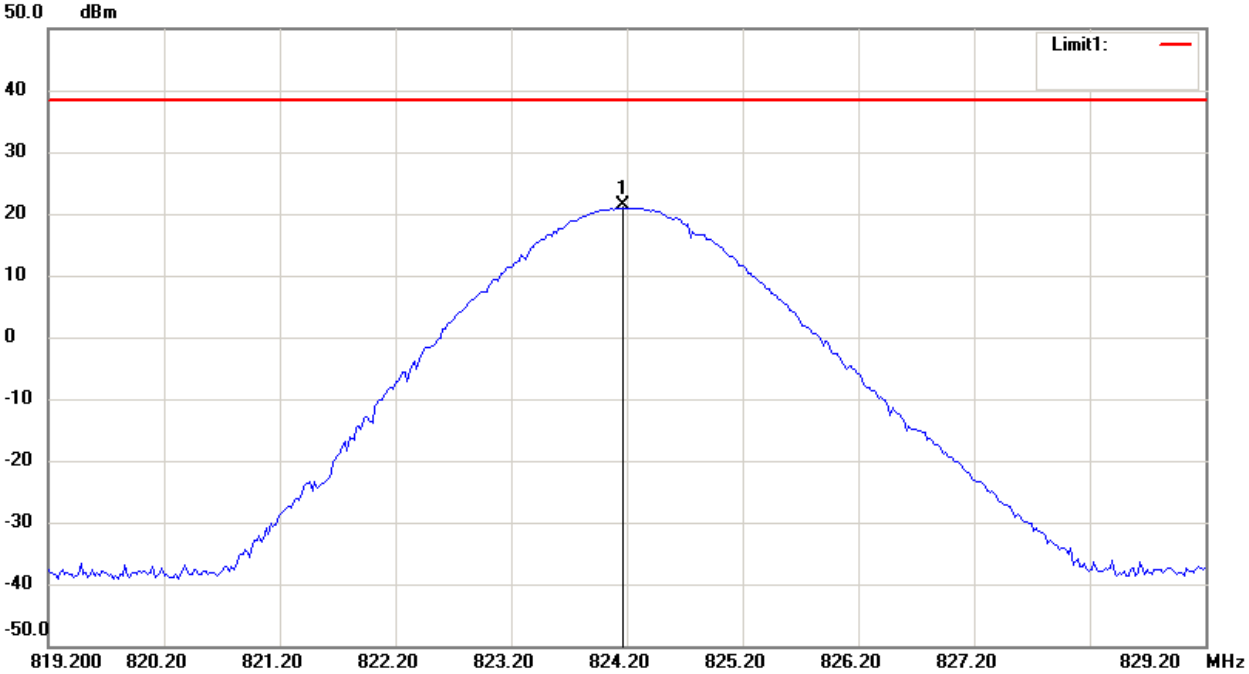


Note:

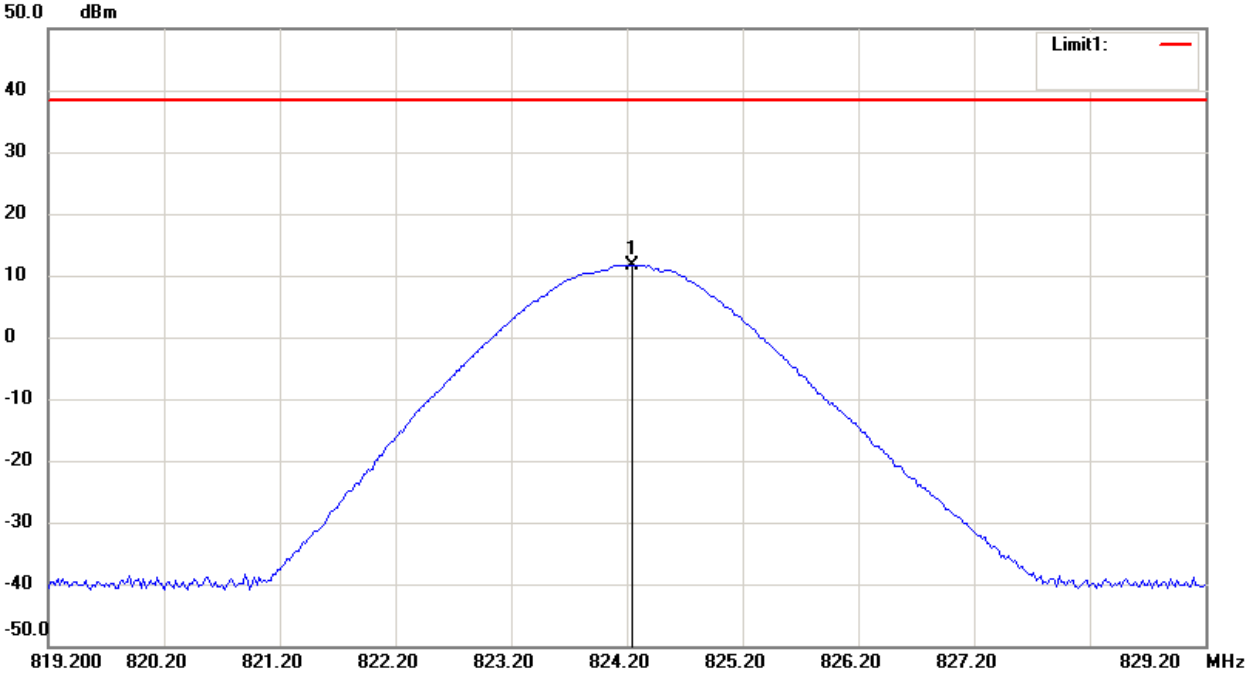
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

850 band_ CH 128_3.6 V

Antenna Polarization H



Antenna Polarization V

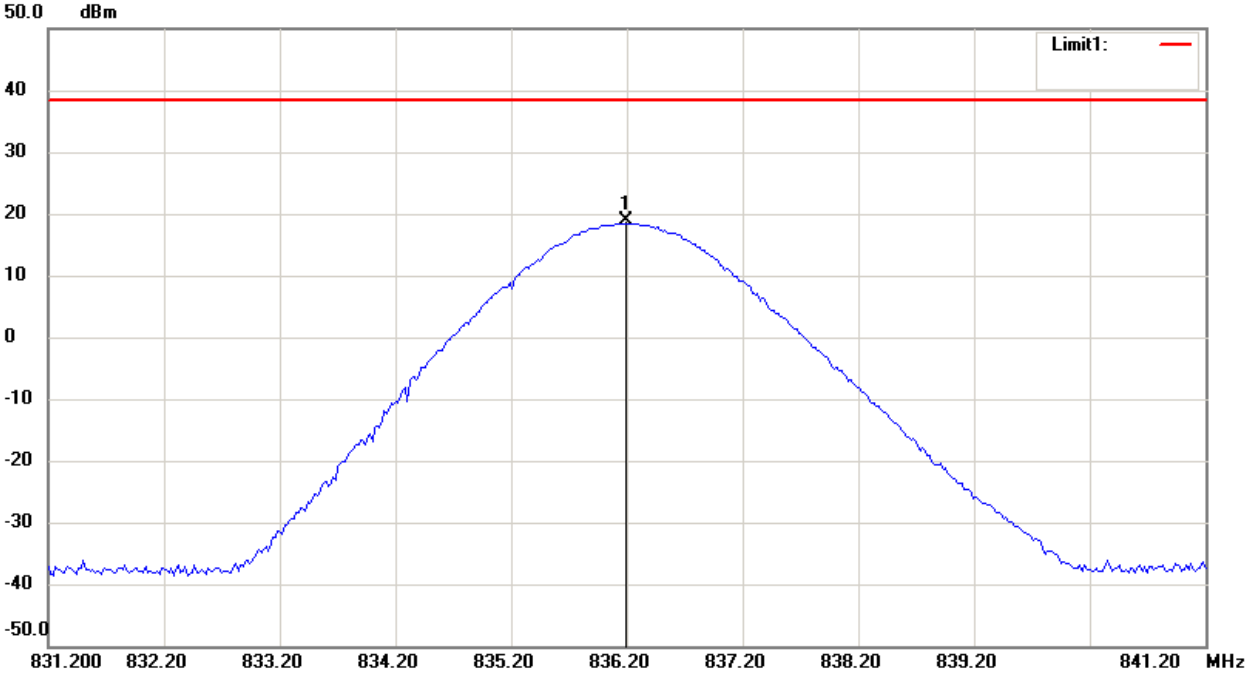


Note:

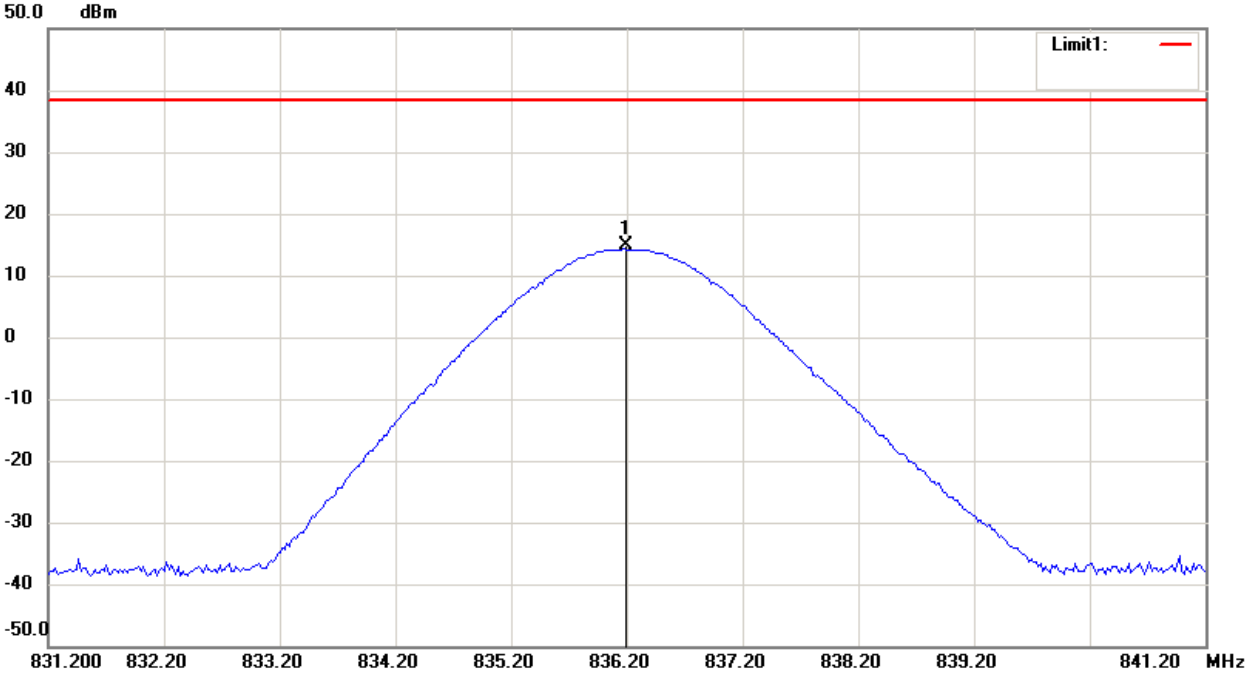
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

850 band_ CH 188_3.6 V

Antenna Polarization H



Antenna Polarization V

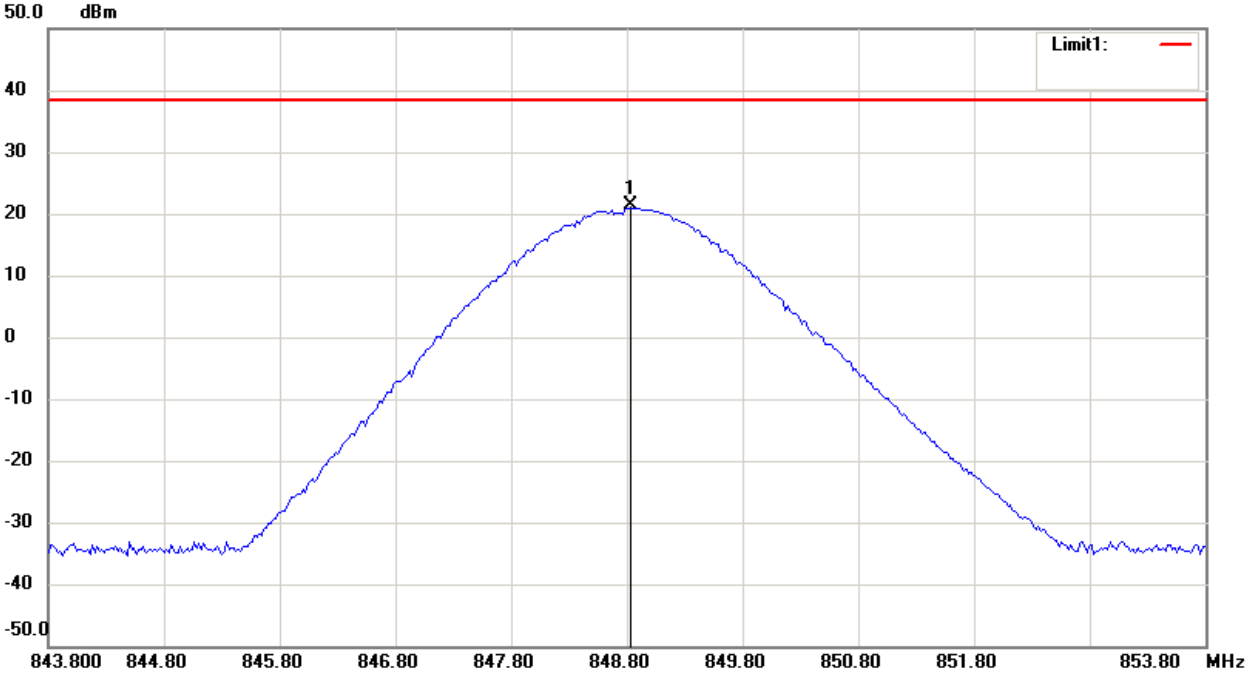


Note:

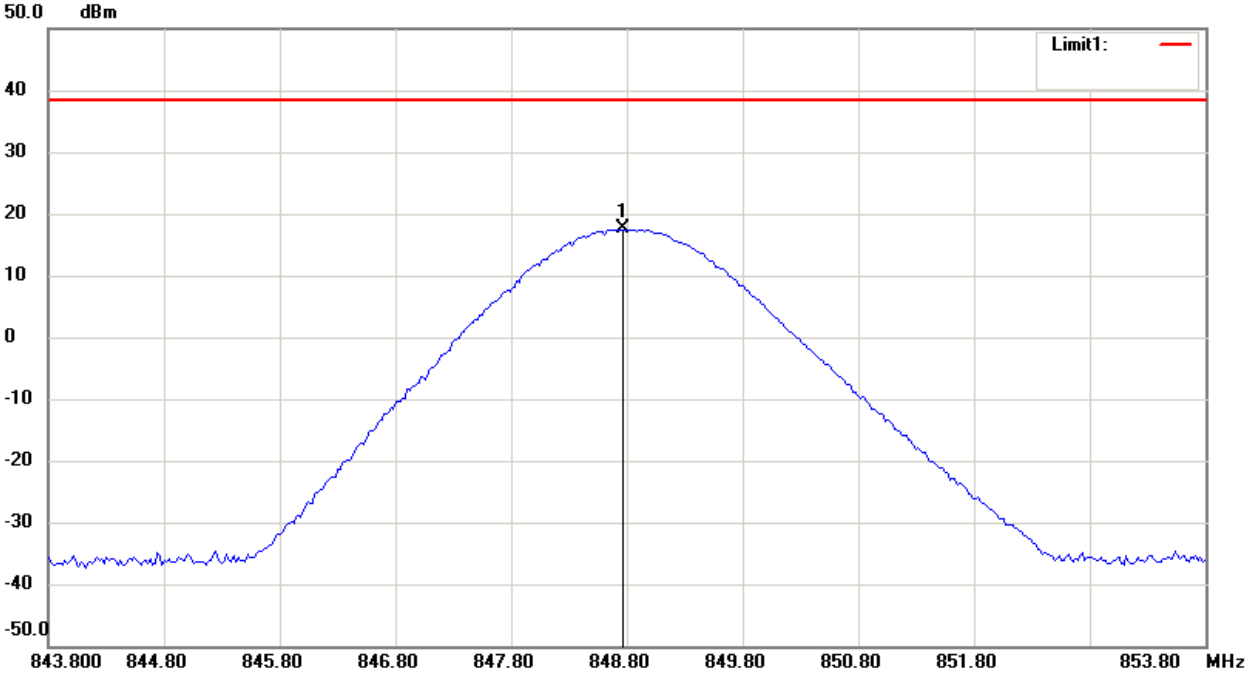
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

850 band_ CH 251_3.6 V

Antenna Polarization H



Antenna Polarization V

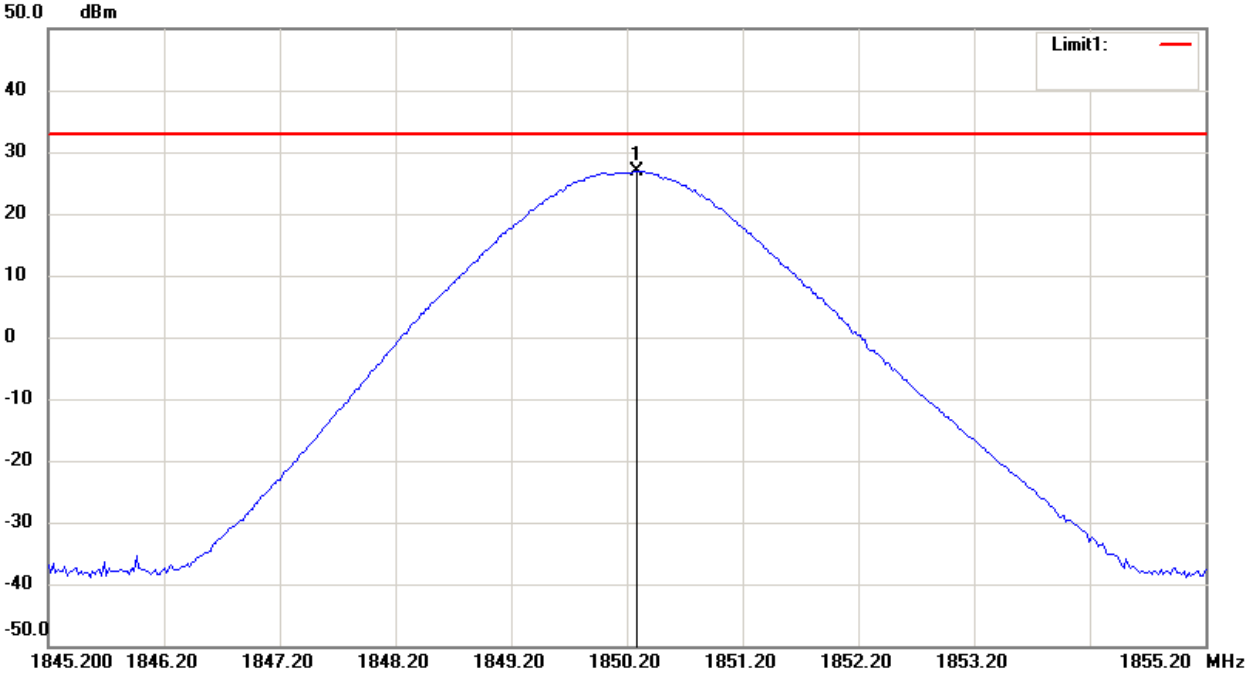


Note:

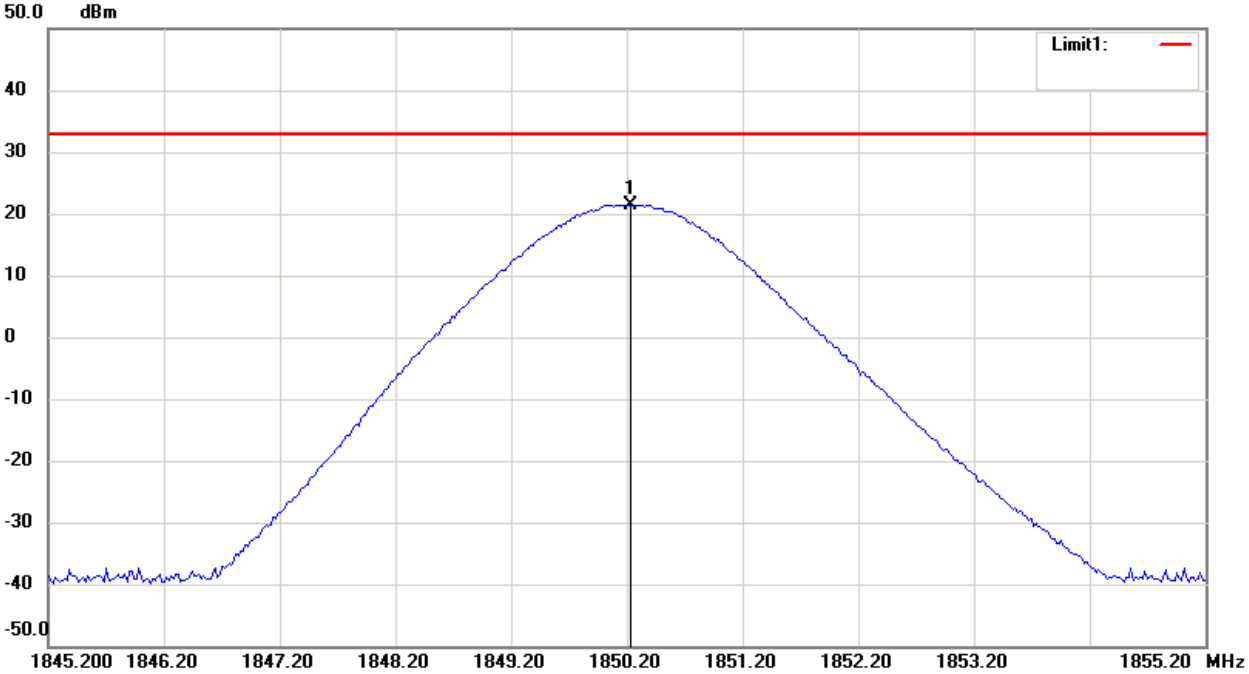
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 512_3.6 V

Antenna Polarization H



Antenna Polarization V

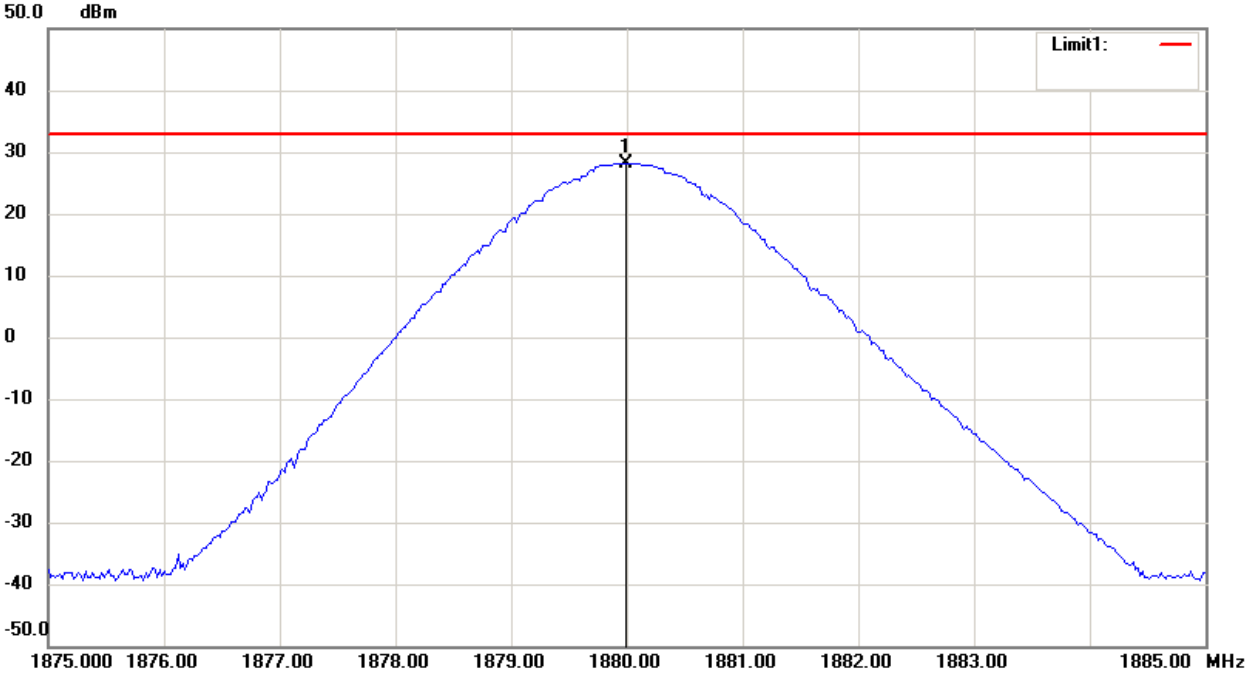


Note:

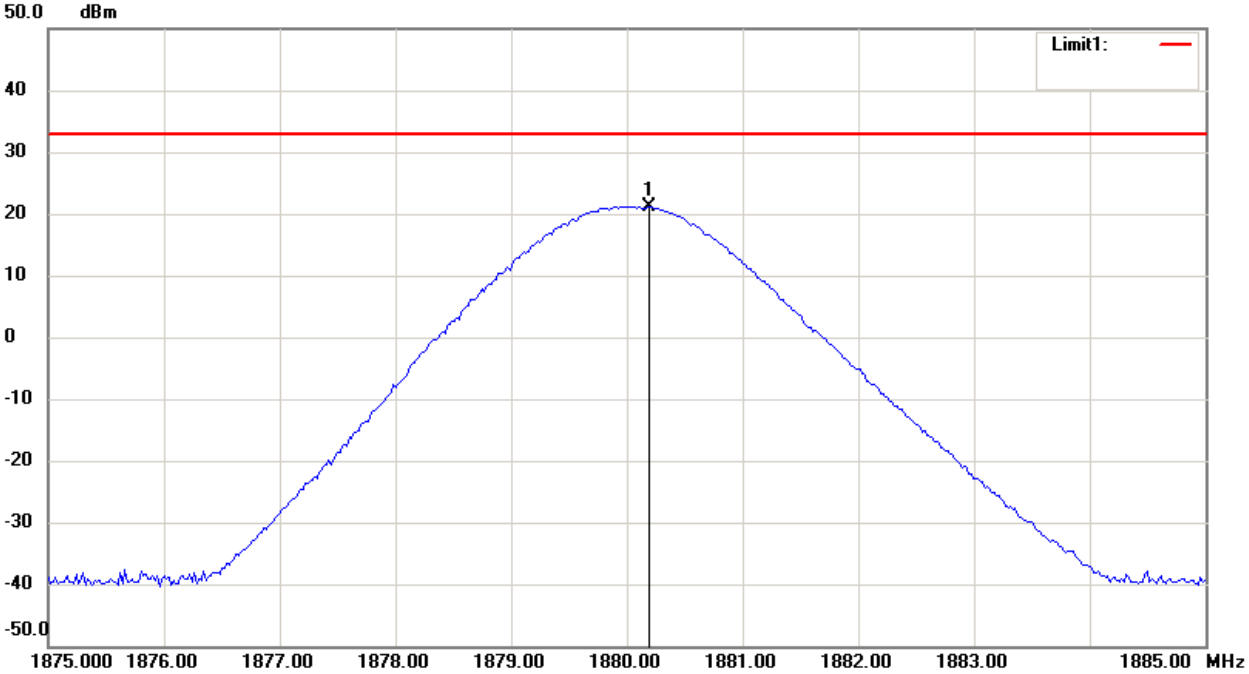
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 661_3.6 V

Antenna Polarization H



Antenna Polarization V

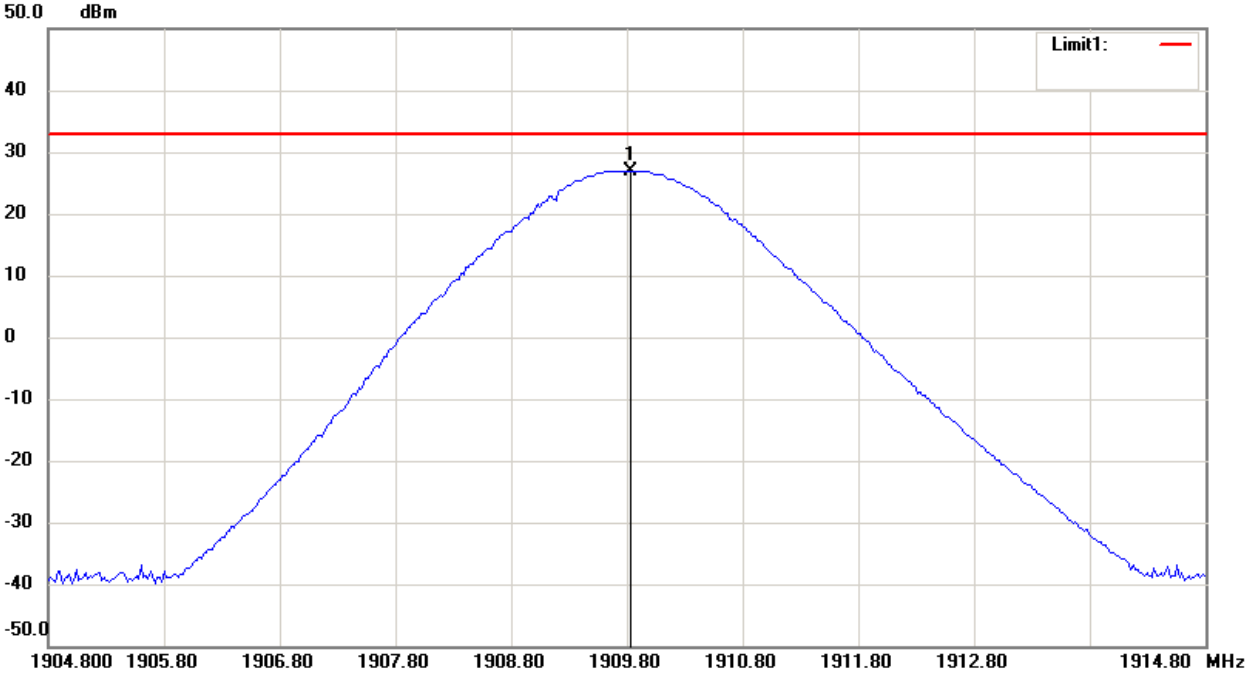


Note:

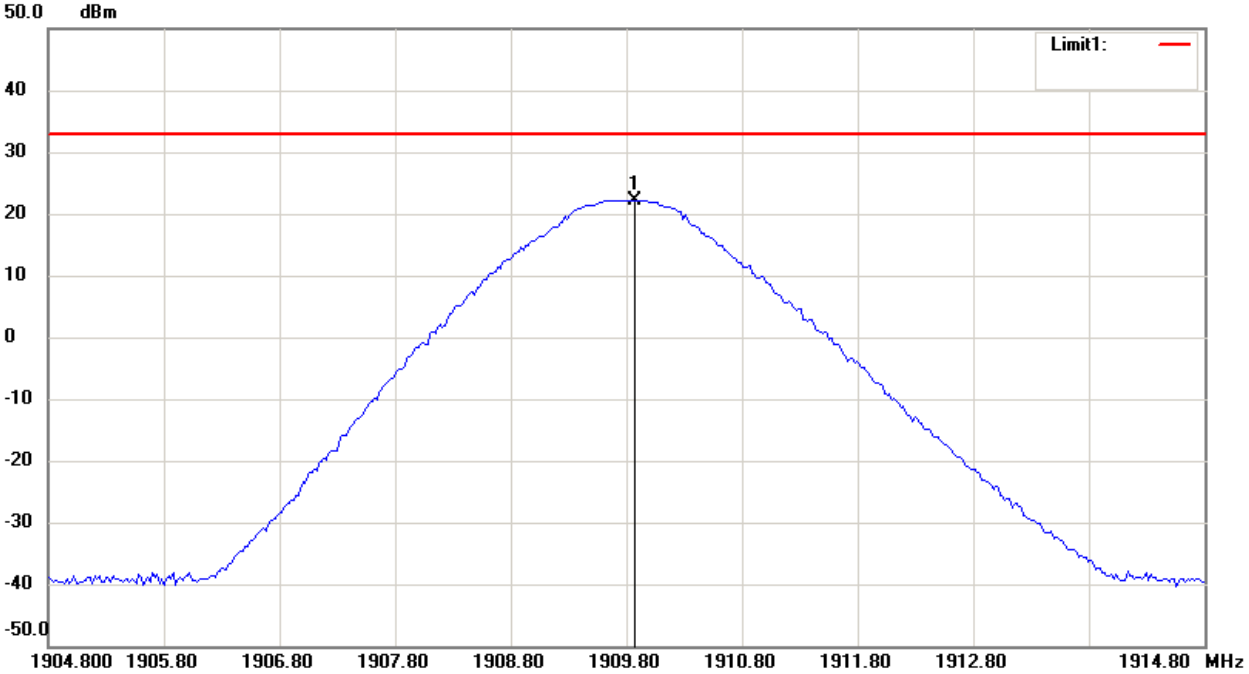
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

1900 band_ CH 810_3.6 V

Antenna Polarization H



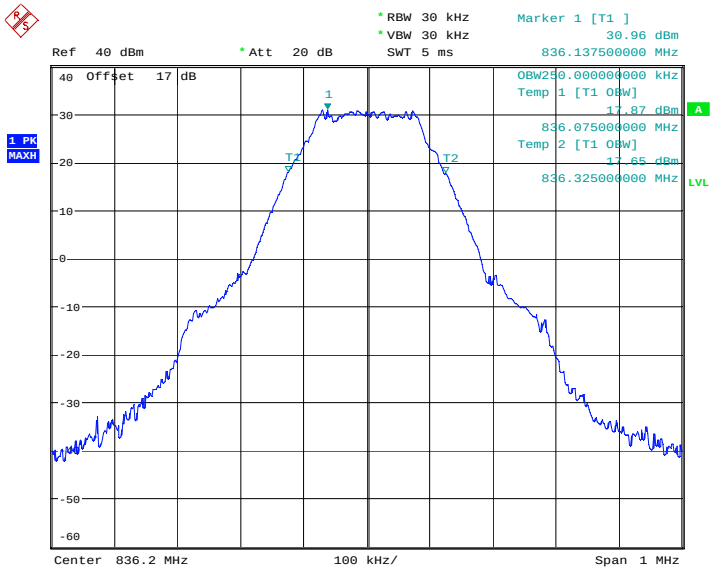
Antenna Polarization V



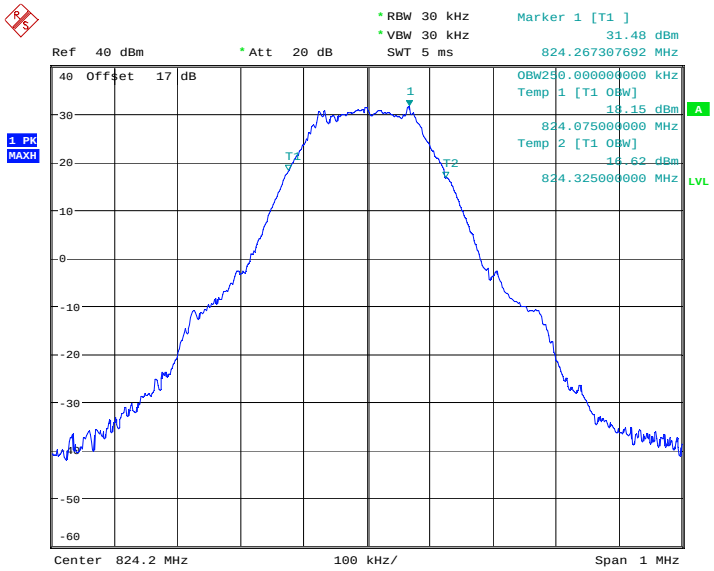
Note:

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

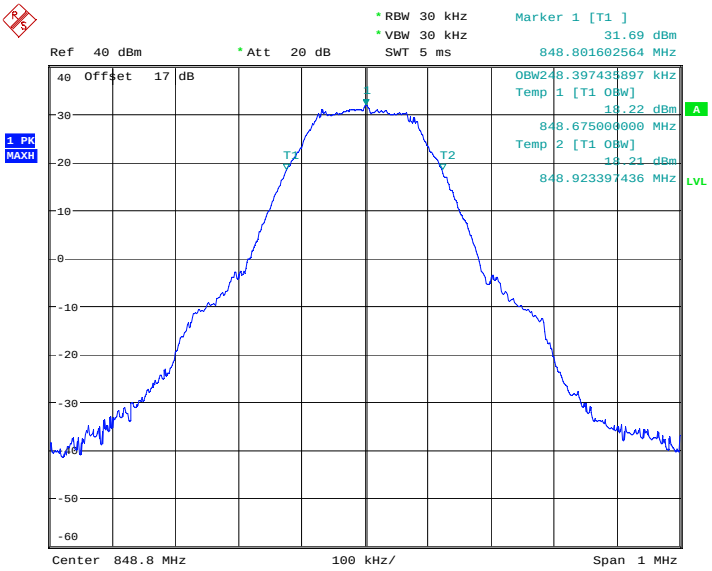
Occupied Bandwidth / Emission Mask



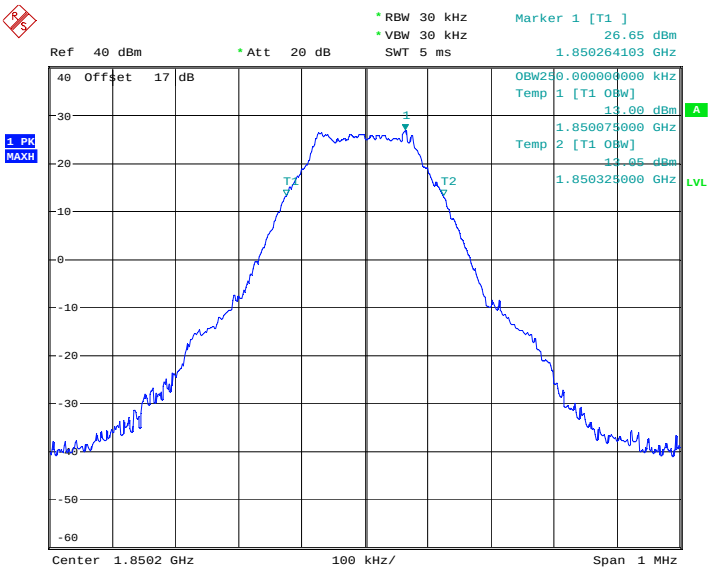
OCCUPIED BANDWIDTH 850 BAND CH188
Date: 16.NOV.2009 13:34:19



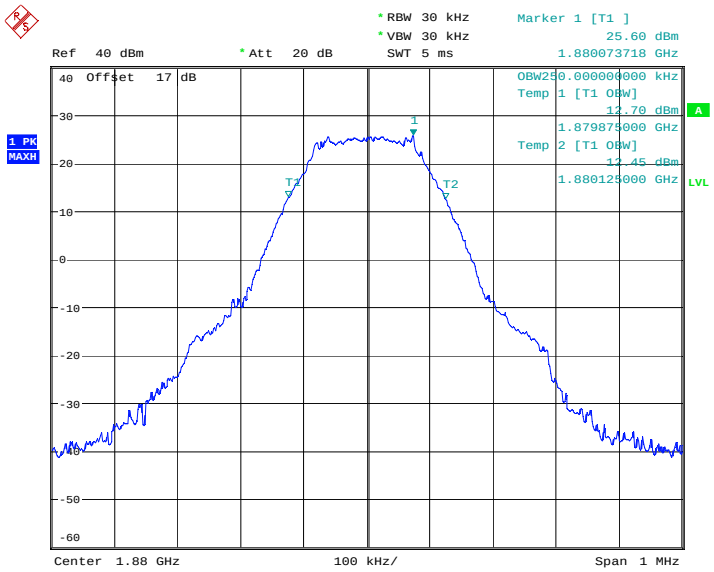
OCCUPIED BANDWIDTH 850 BAND CH128
Date: 16.NOV.2009 13:33:47



OCCUPIED BANDWIDTH 850 BAND CH251
Date: 16.NOV.2009 13:34:57

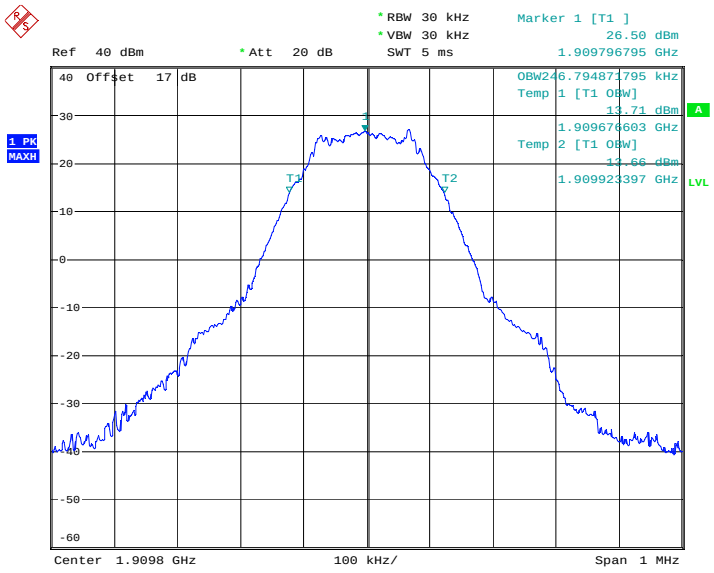


OCCUPIED BANDWIDTH 1900 BAND CH512
Date: 16.NOV.2009 13:32:56



OCCUPIED BANDWIDTH 1900 BAND CH661

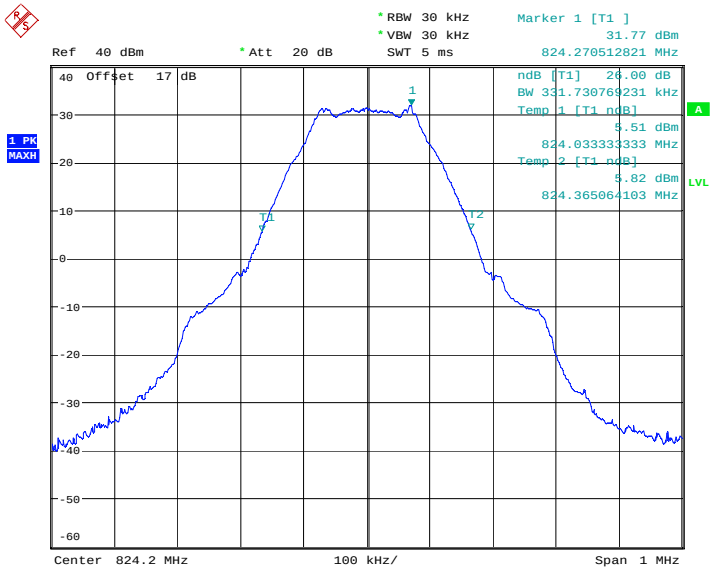
Date: 16.NOV.2009 13:32:32



OCCUPIED BANDWIDTH 1900 BAND CH810

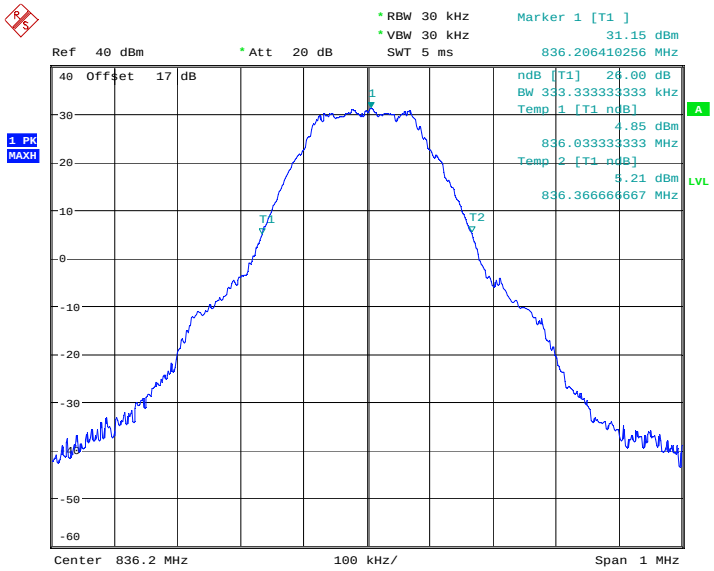
Date: 16.NOV.2009 13:31:54

26dB Channel Bandwidth



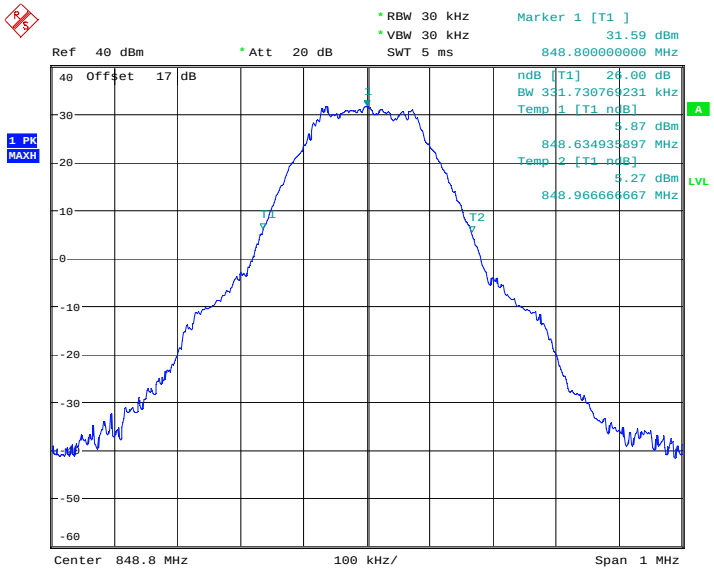
26DB BANDWIDTH 850 BAND CH128

Date: 16.NOV.2009 13:28:07

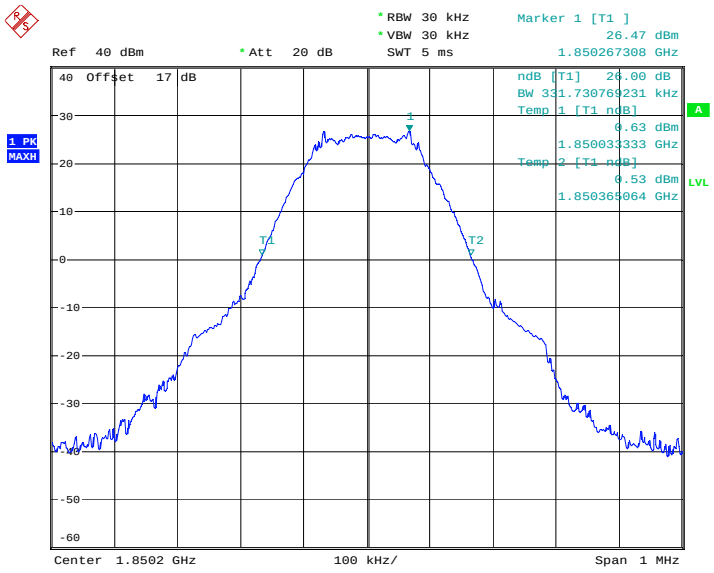


26DB BANDWIDTH 850 BAND CH188

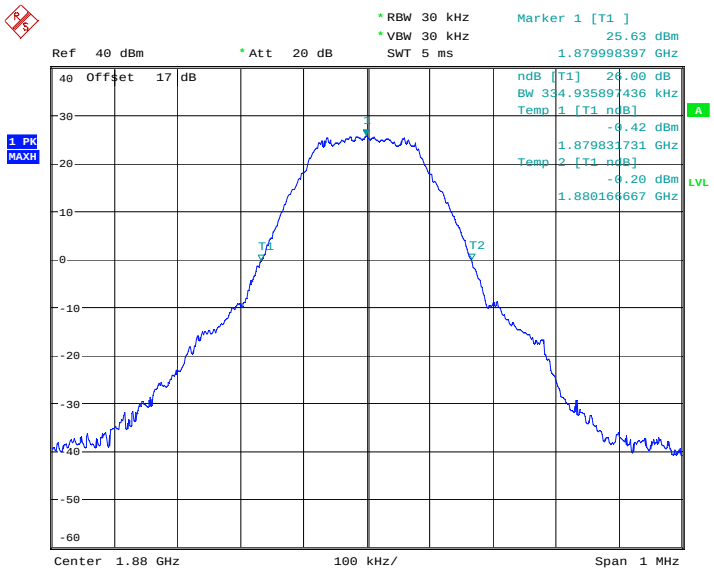
Date: 16.NOV.2009 13:28:37



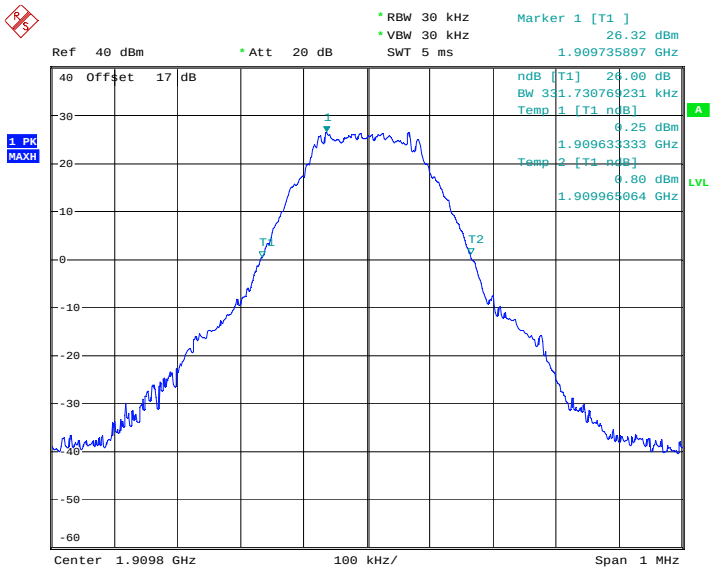
26DB BANDWIDTH 850 BAND CH251
Date: 16.NOV.2009 13:29:06



26DB BANDWIDTH 1900 BAND CH512
Date: 16.NOV.2009 13:30:05

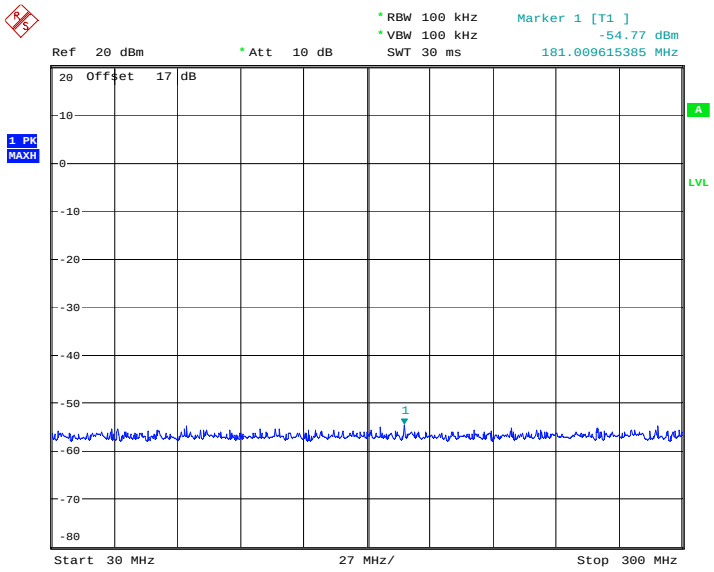


26DB BANDWIDTH 1900 BAND CH661
Date: 16.NOV.2009 13:30:46

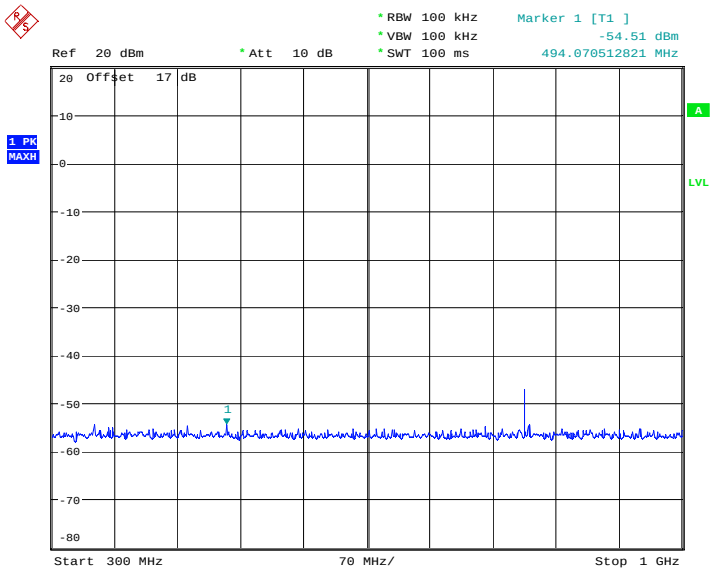


26DB BANDWIDTH 1900 BAND CH810
Date: 16.NOV.2009 13:31:13

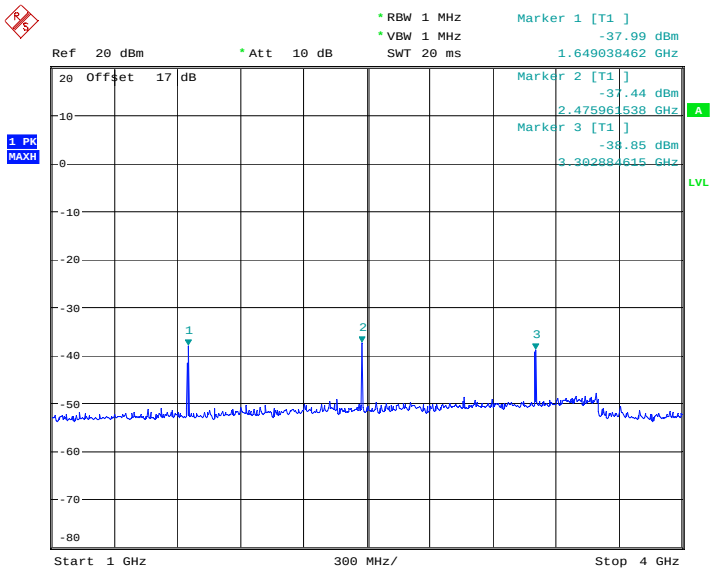
Spurious Emissions at Antenna Terminals
CH 128



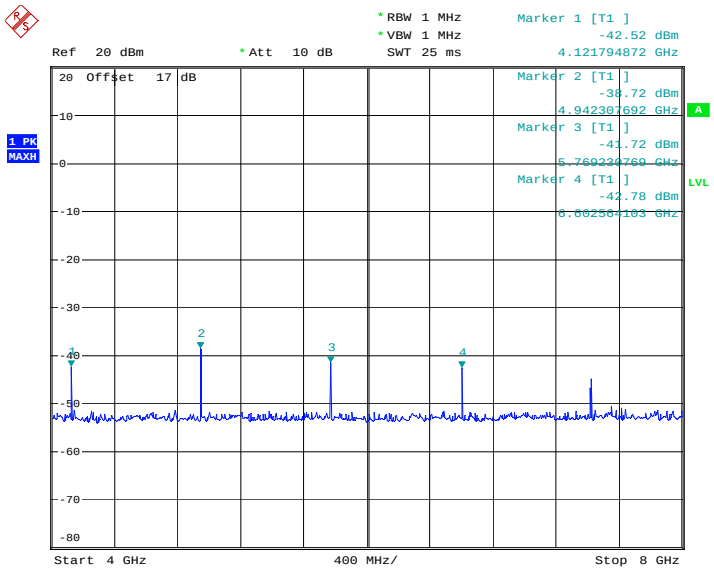
CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:40:18



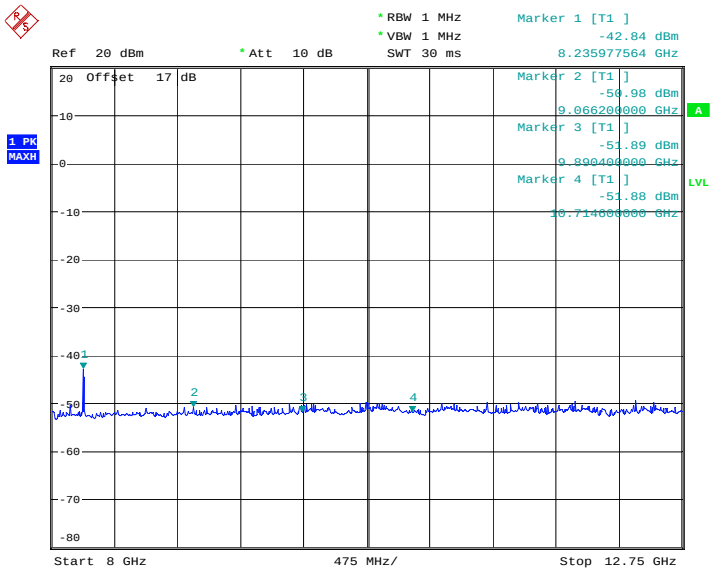
CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:45:31



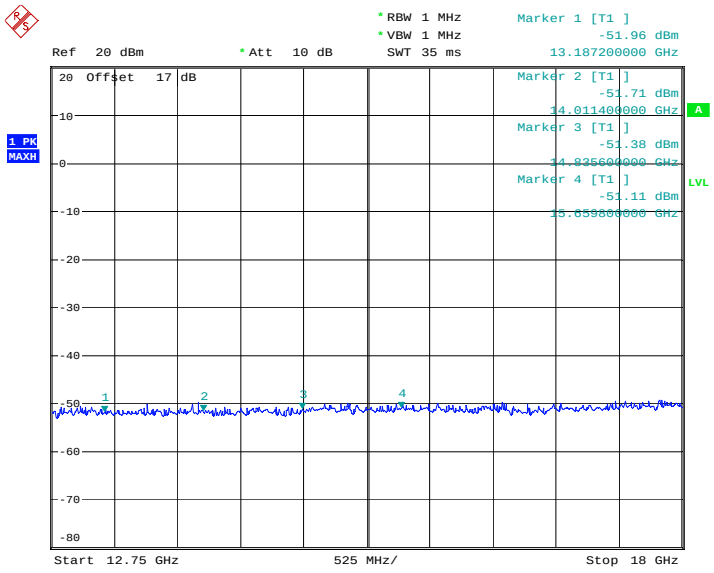
CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:50:20



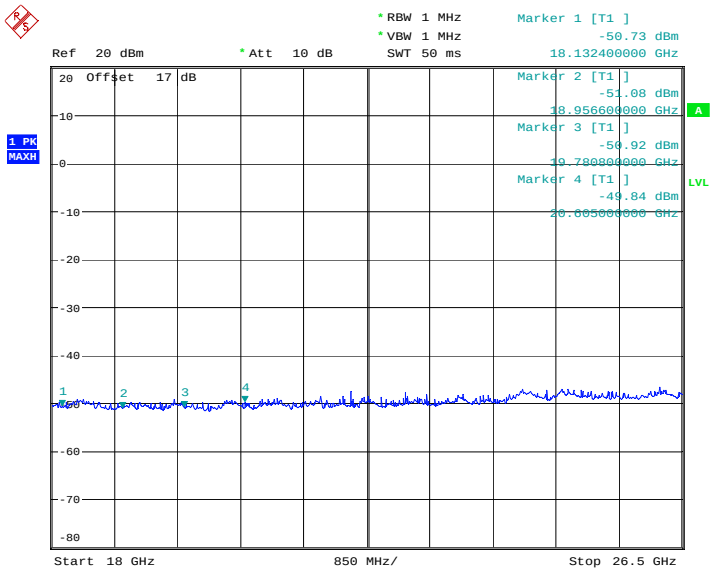
CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:50:56



CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:51:49

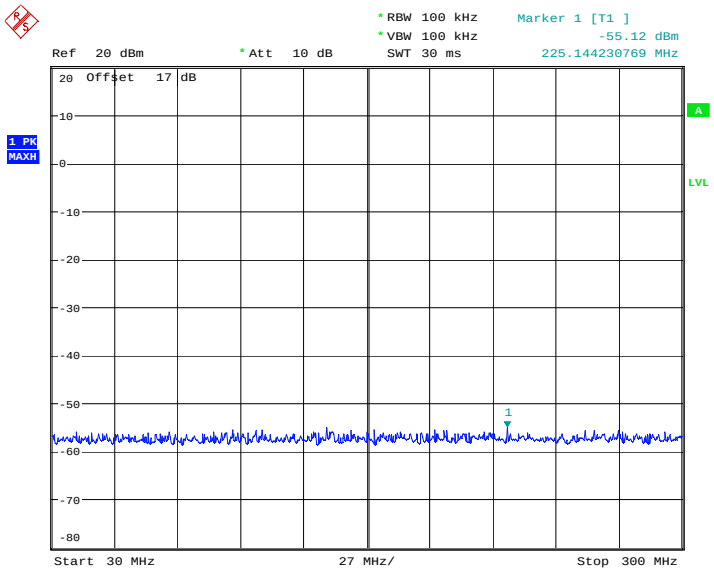


CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:52:25

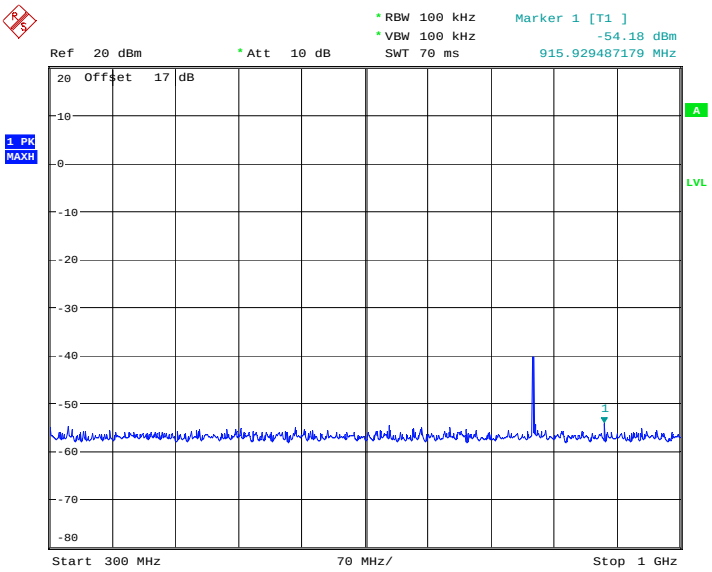


CONDUCTED SPURIOUS EMISSION 850 BAND CH128
Date: 16.NOV.2009 13:53:06

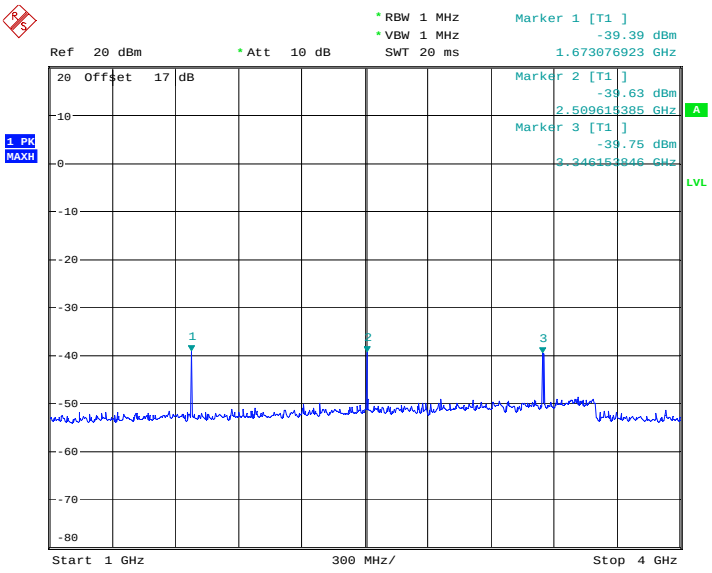
CH 188



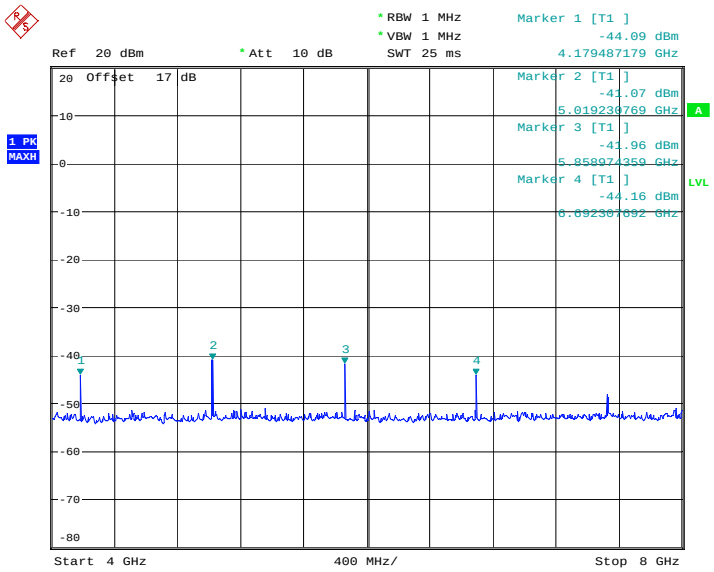
CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:41:26



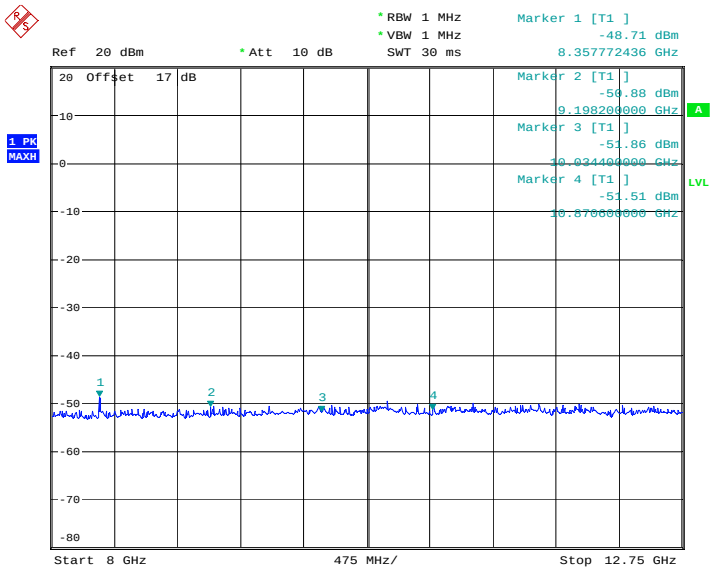
CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:46:37



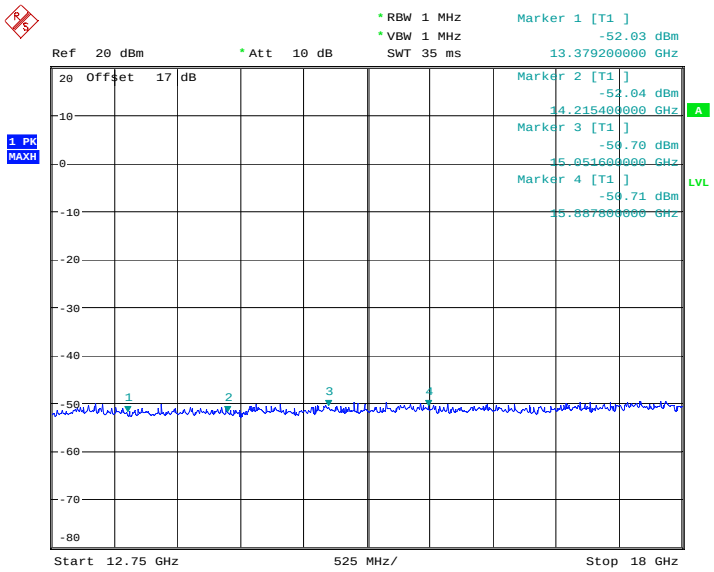
CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:57:12



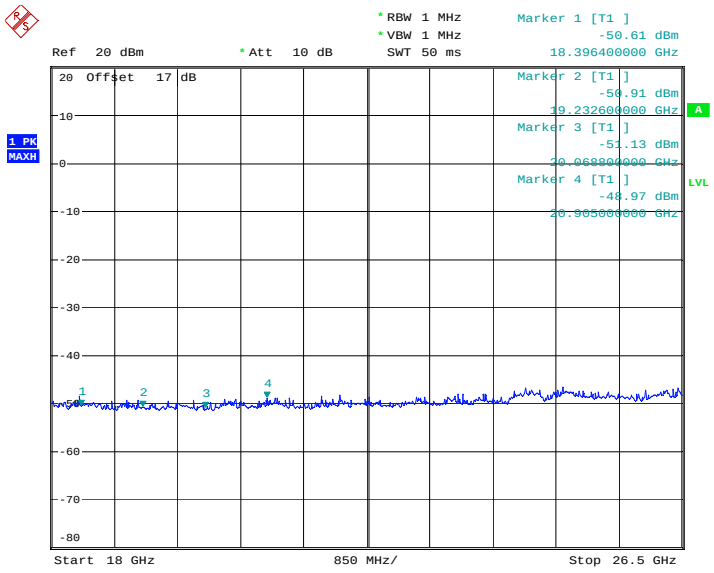
CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:56:47



CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:56:19

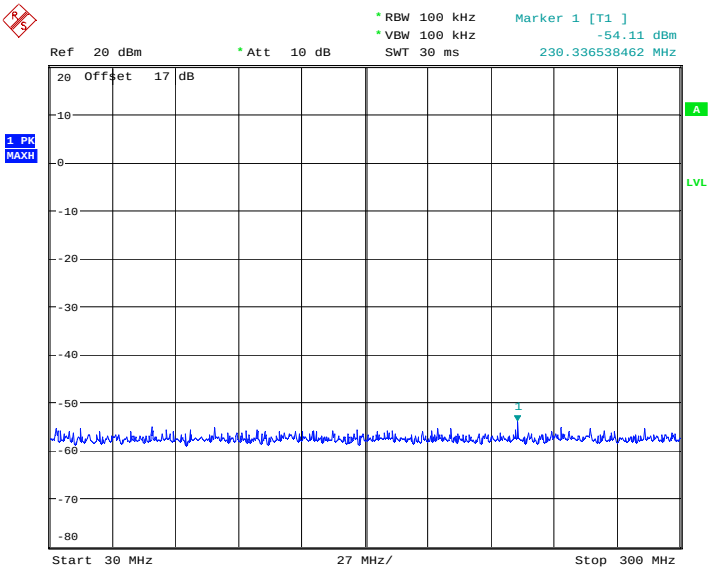


CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:54:50

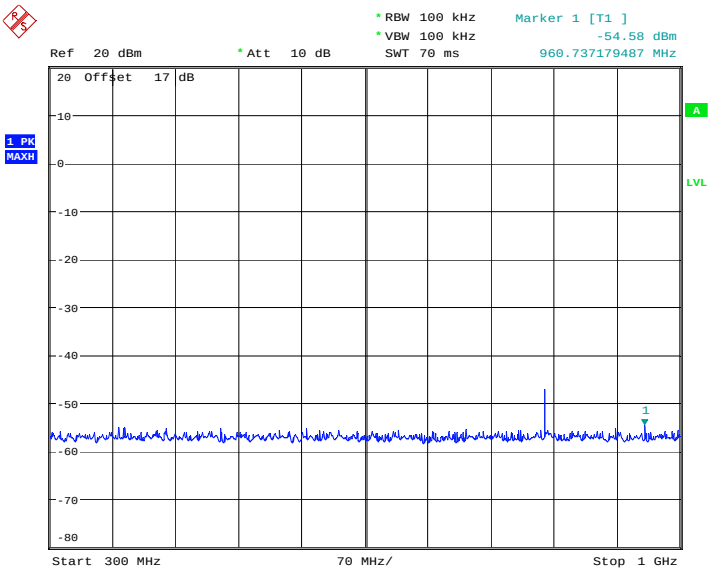


CONDUCTED SPURIOUS EMISSION 850 BAND CH188
Date: 16.NOV.2009 13:54:10

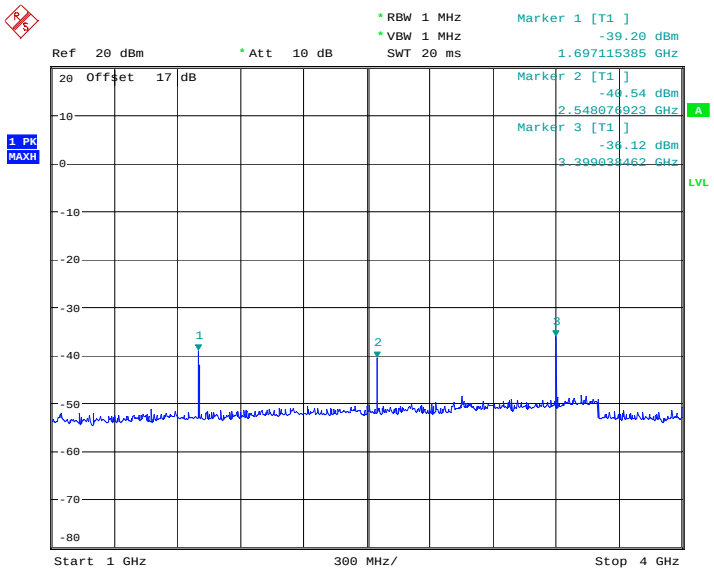
CH 251



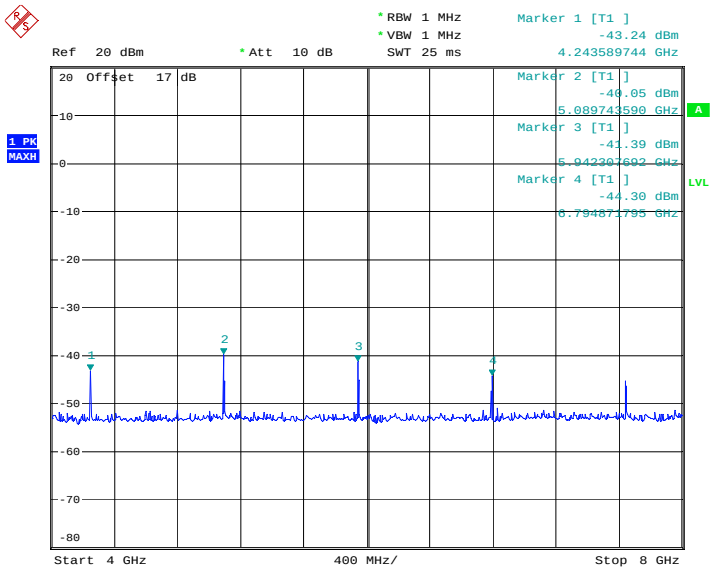
CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:41:40



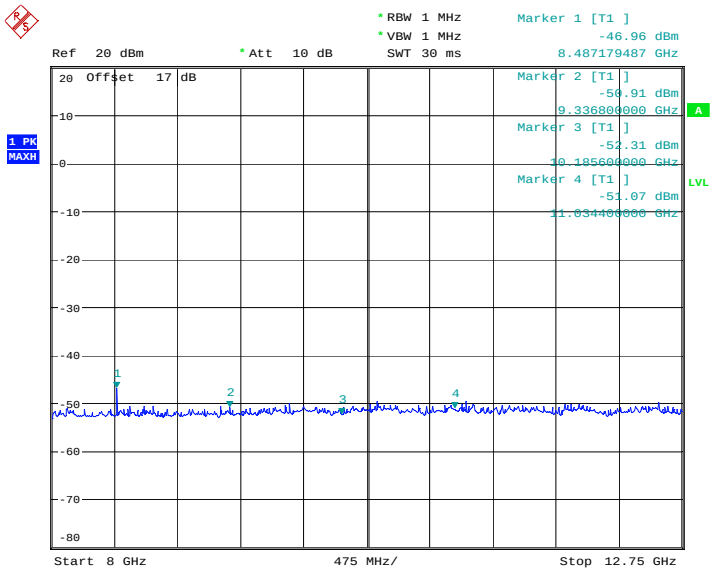
CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:47:35



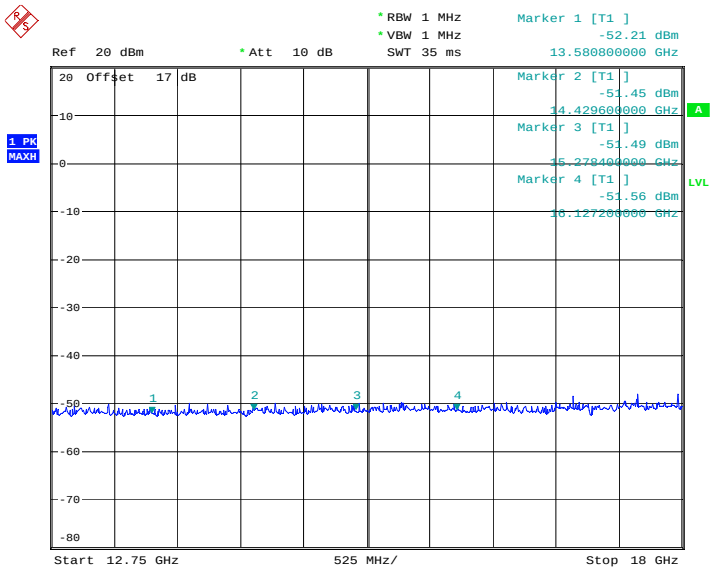
CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:57:41



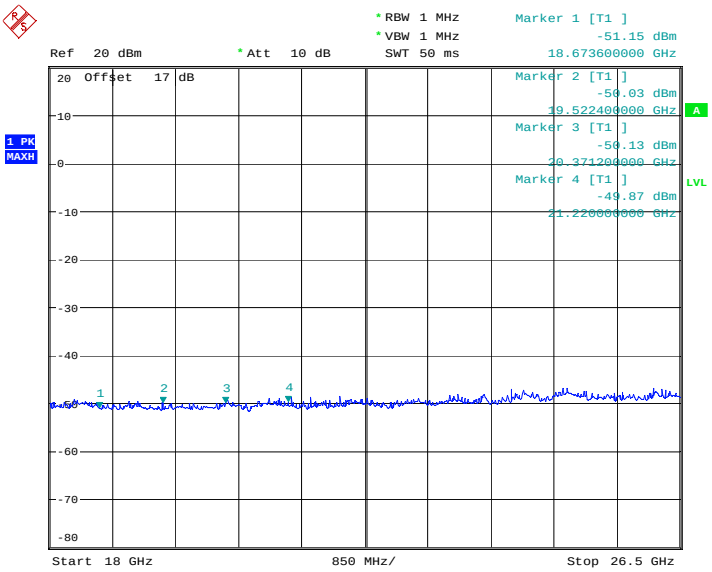
CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:58:06



CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:58:55

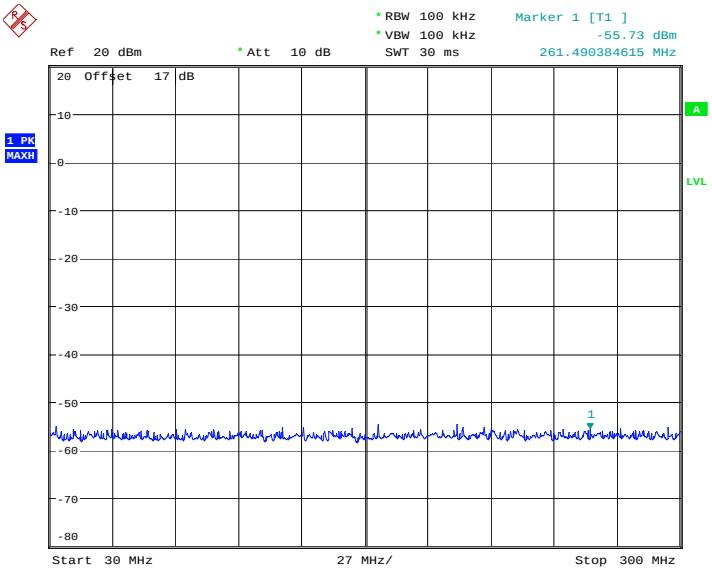


CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 13:59:32

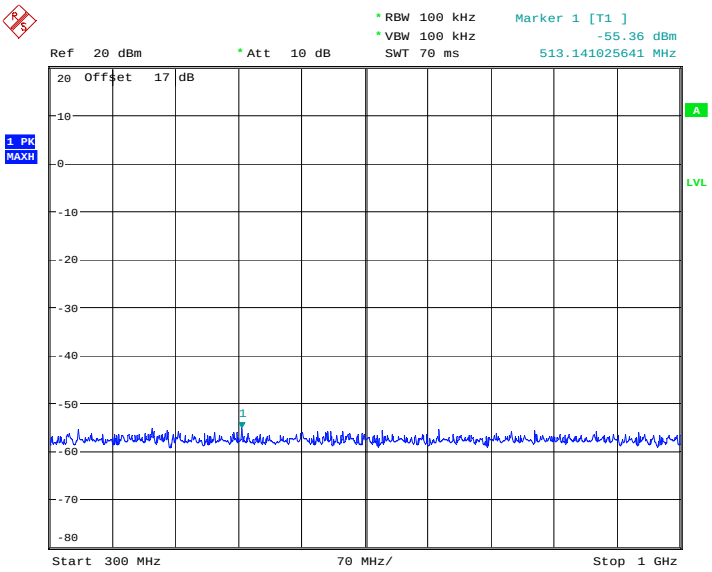


CONDUCTED SPURIOUS EMISSION 850 BAND CH251
Date: 16.NOV.2009 14:00:04

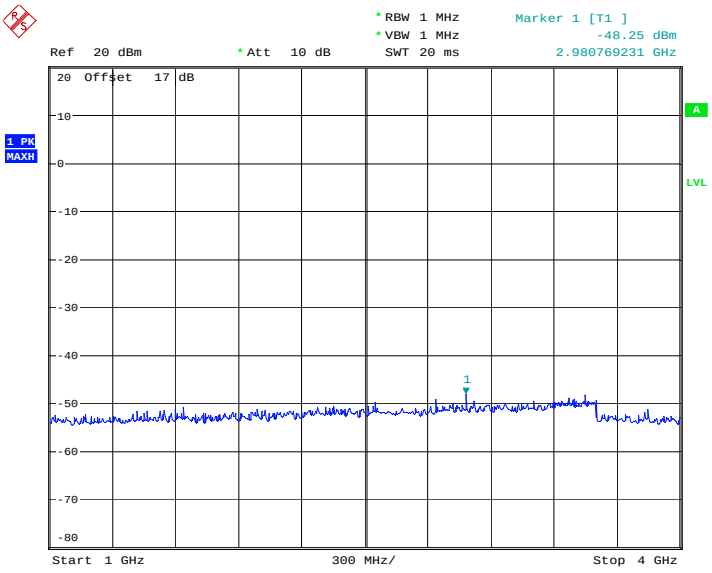
850MHz Band Idle



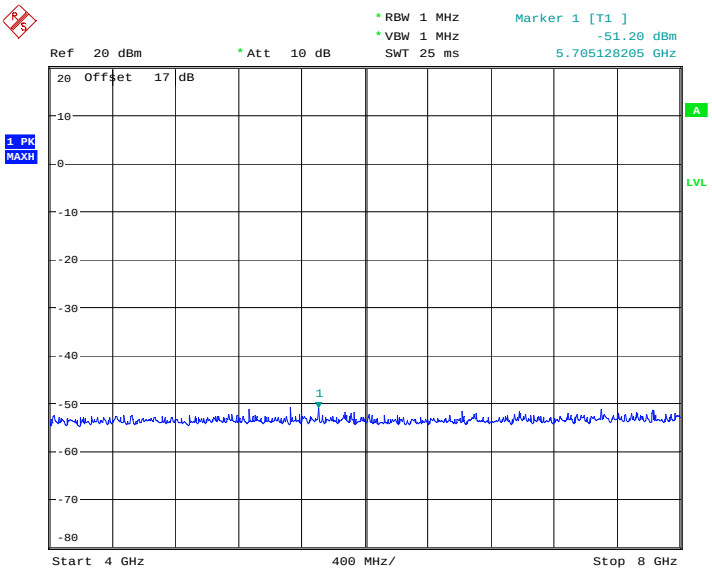
CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:01:38



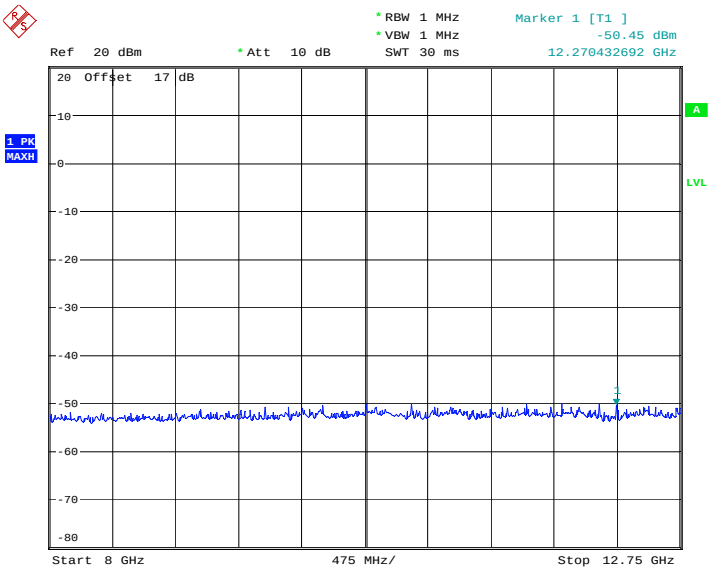
CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:01:53



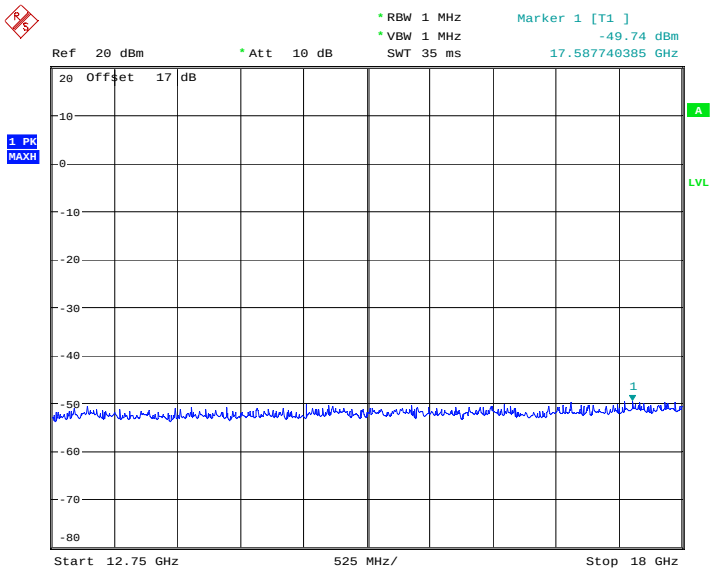
CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:02:23



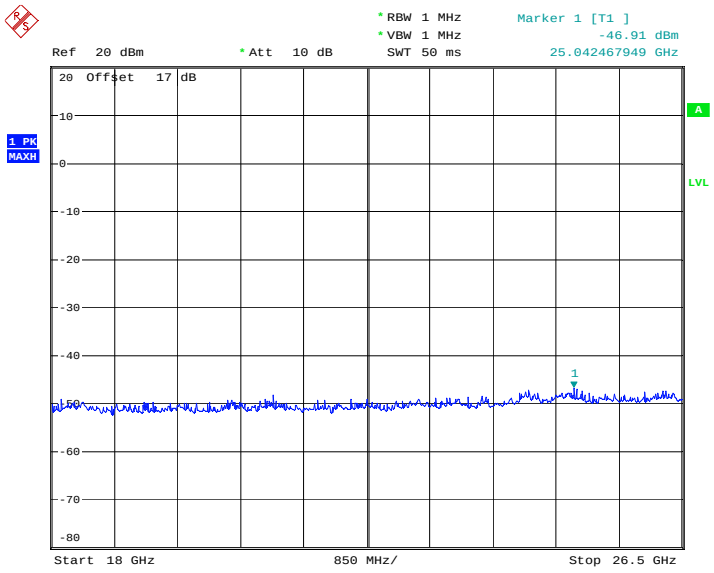
CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:02:35



CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:02:46

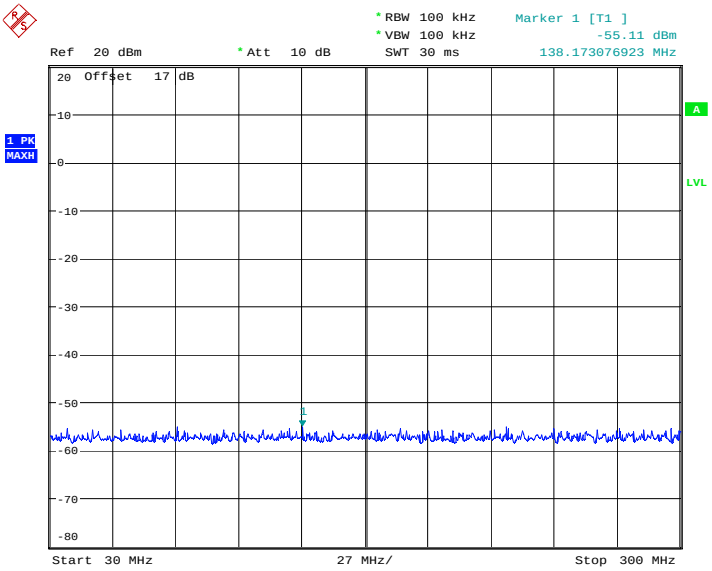


CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:03:07

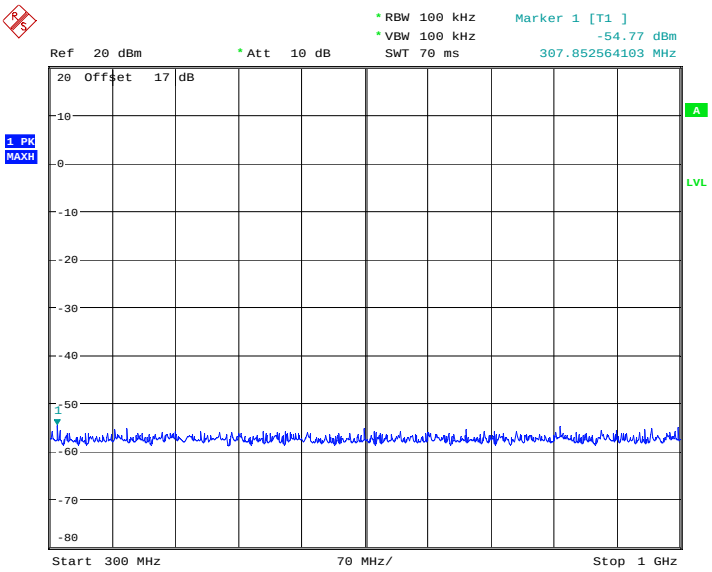


CONDUCTED SPURIOUS EMISSION 850 BAND IDLE
Date: 16.NOV.2009 14:03:19

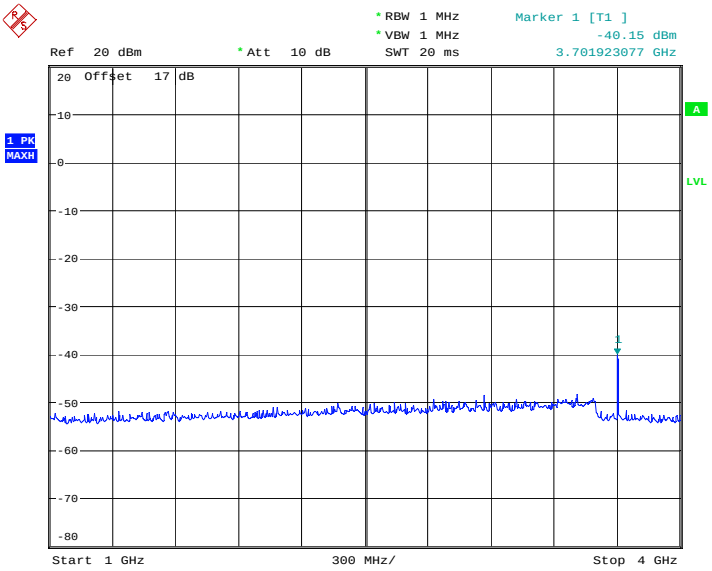
CH512



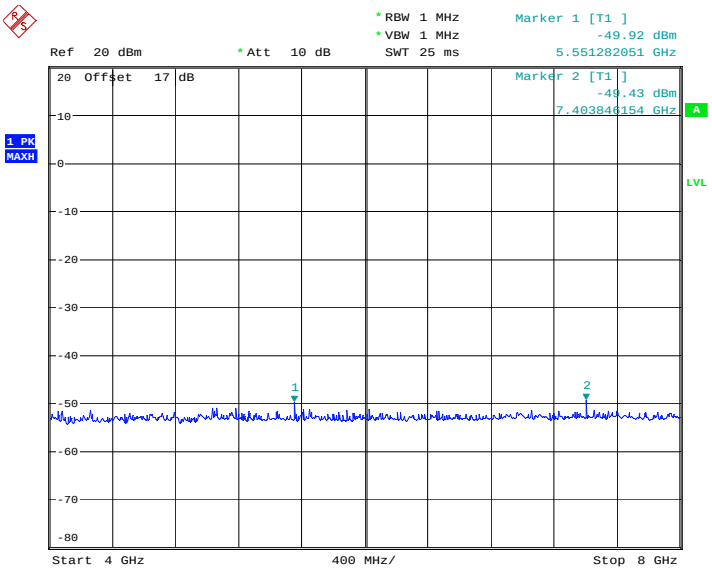
CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:06:00



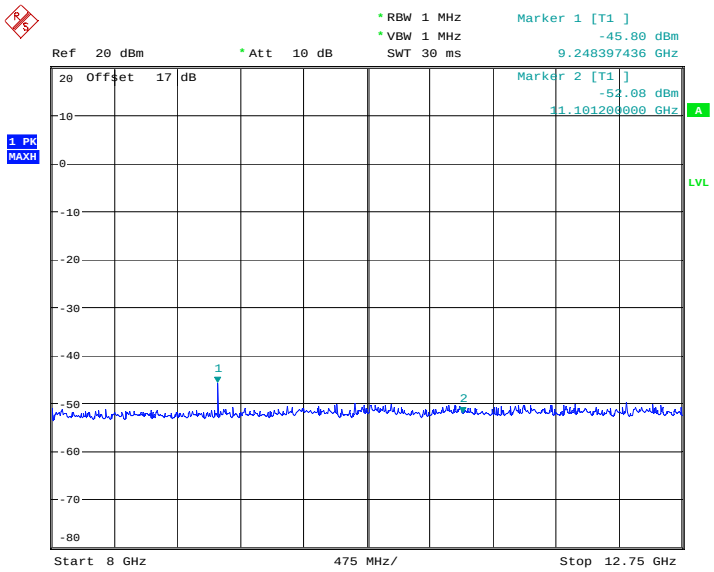
CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:08:22



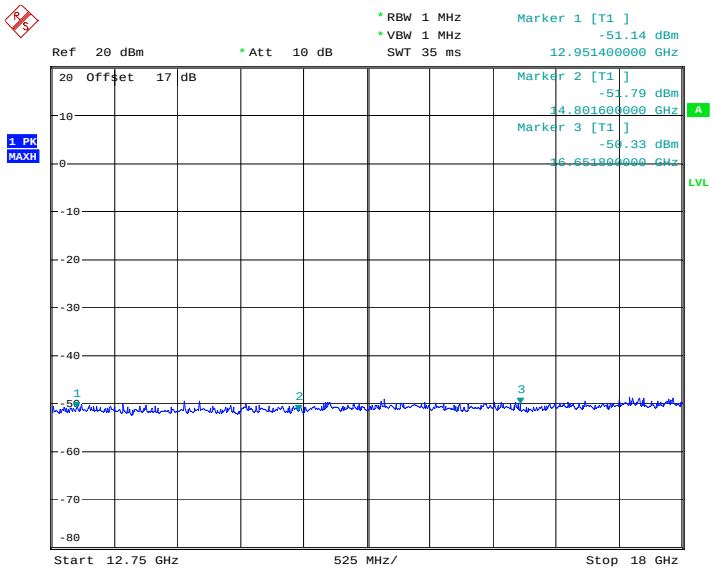
CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:09:09



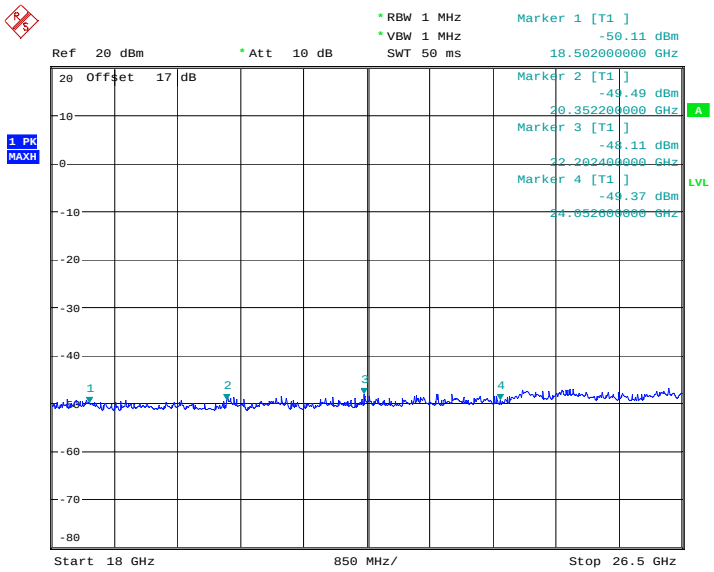
CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:09:36



CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:10:09

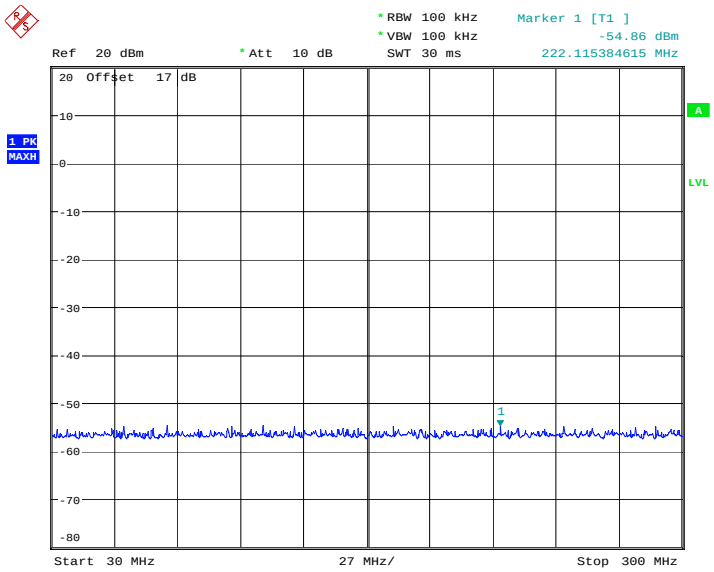


CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:11:41

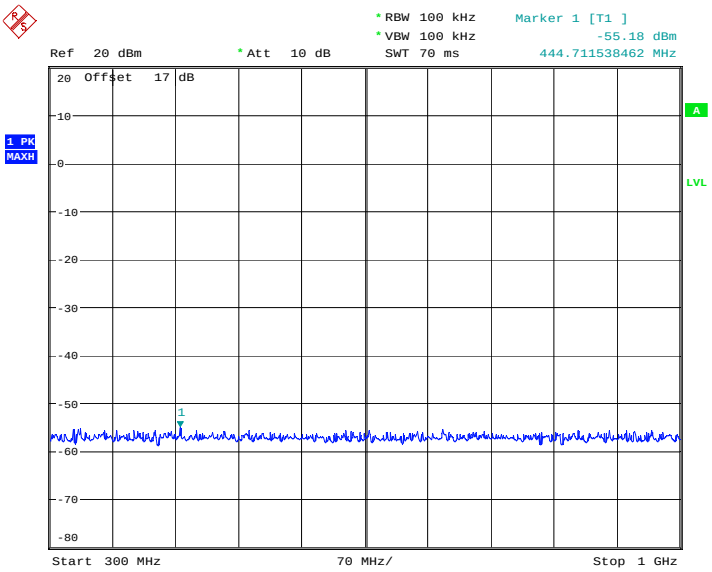


CONDUCTED SPURIOUS EMISSION 1900 BAND CH512
Date: 16.NOV.2009 14:12:16

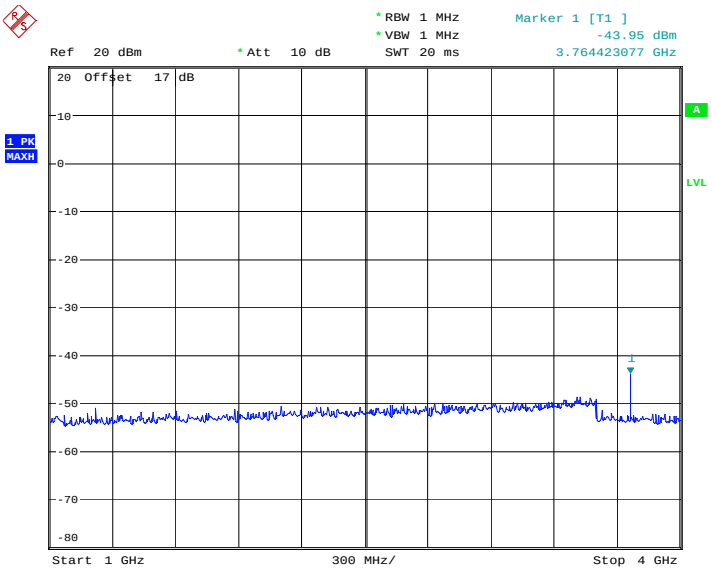
CH661



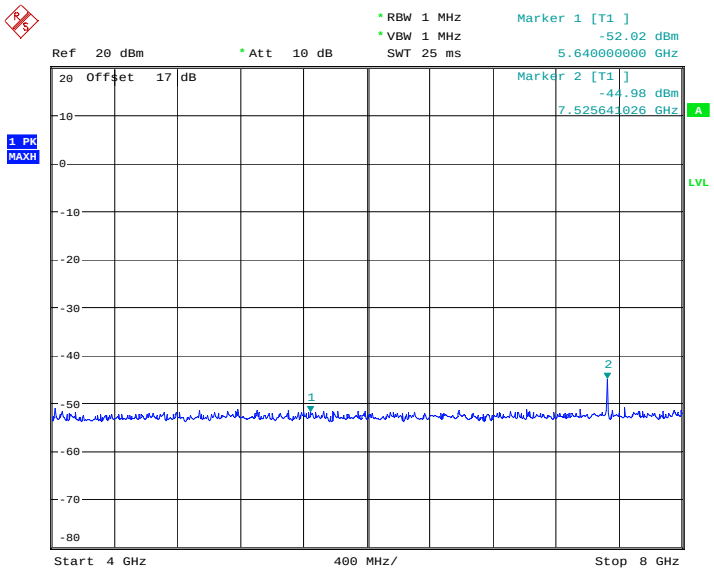
CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:07:25



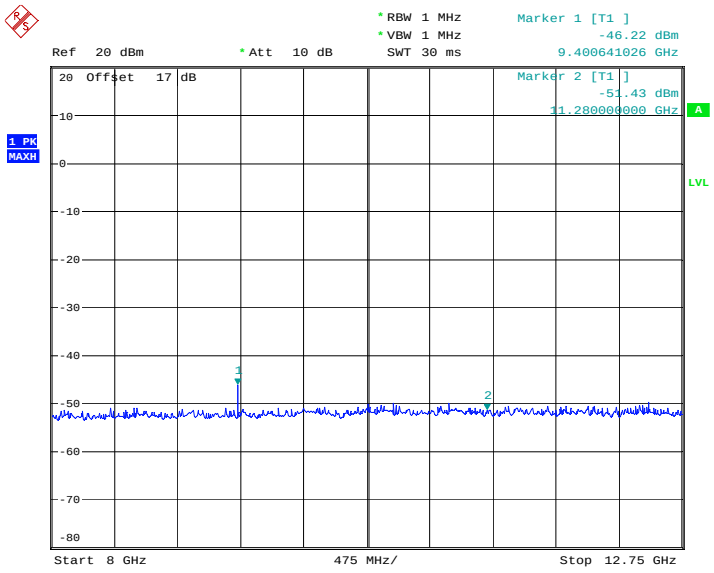
CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:08:10



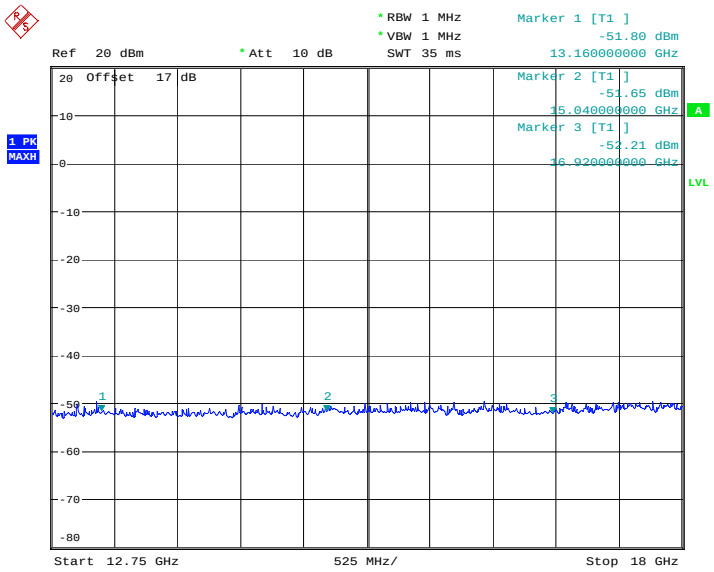
CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:14:40



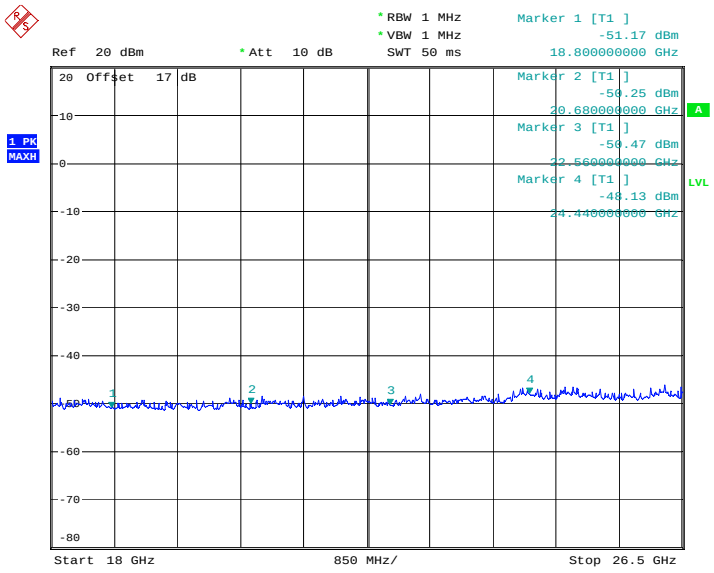
CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:14:24



CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:13:46

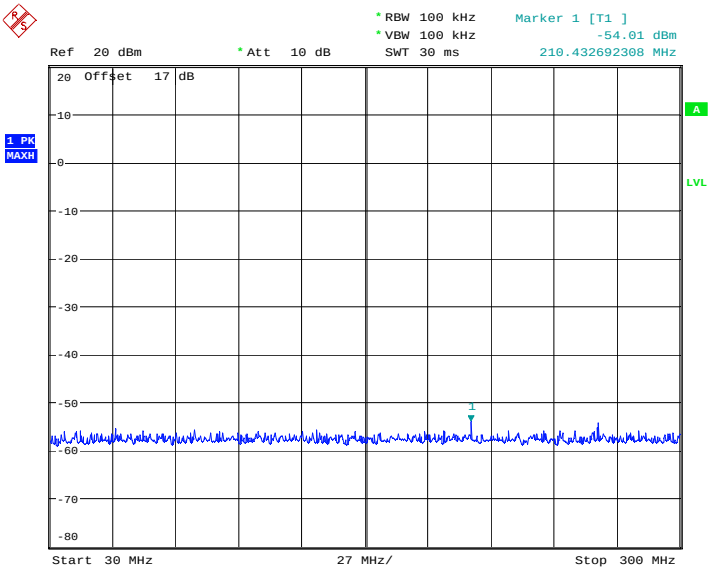


CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:13:23

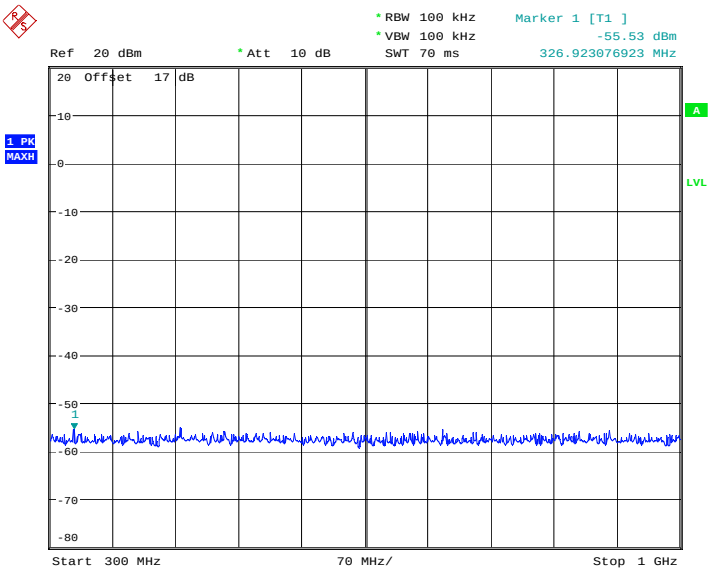


CONDUCTED SPURIOUS EMISSION 1900 BAND CH661
Date: 16.NOV.2009 14:13:01

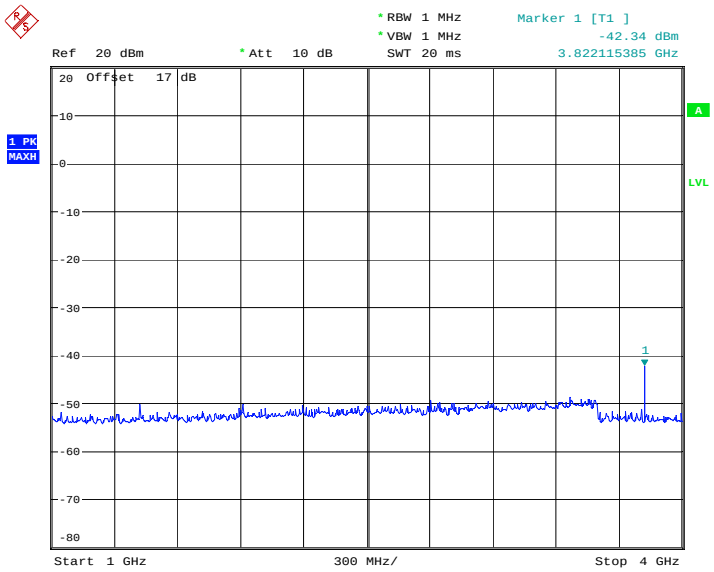
CH 810



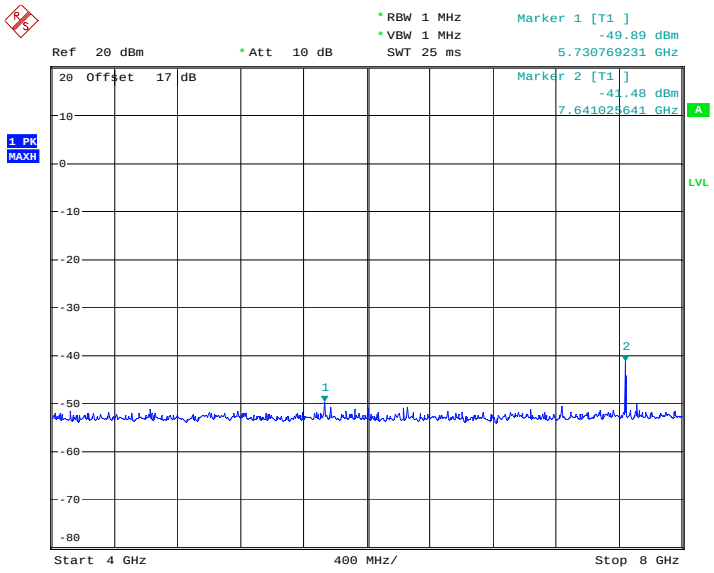
CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:07:36



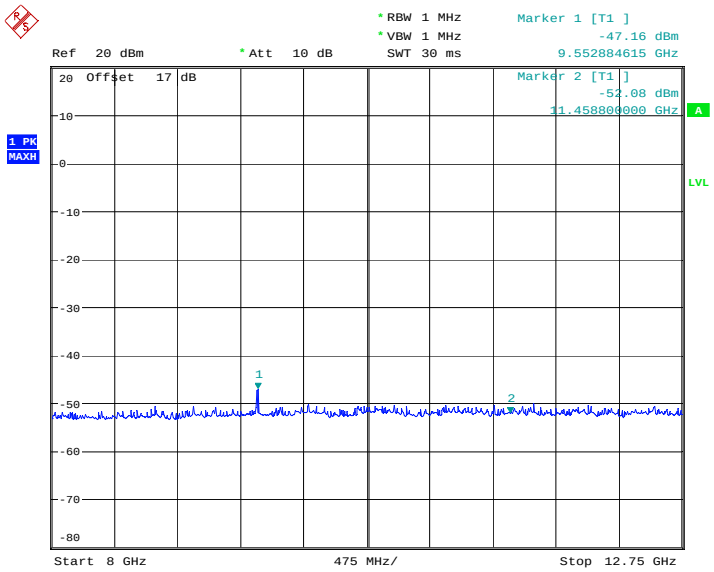
CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:07:59



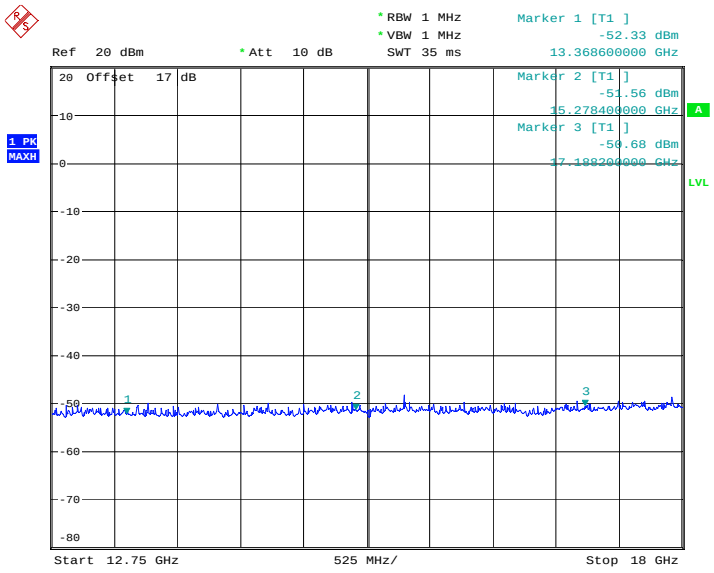
CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:15:00



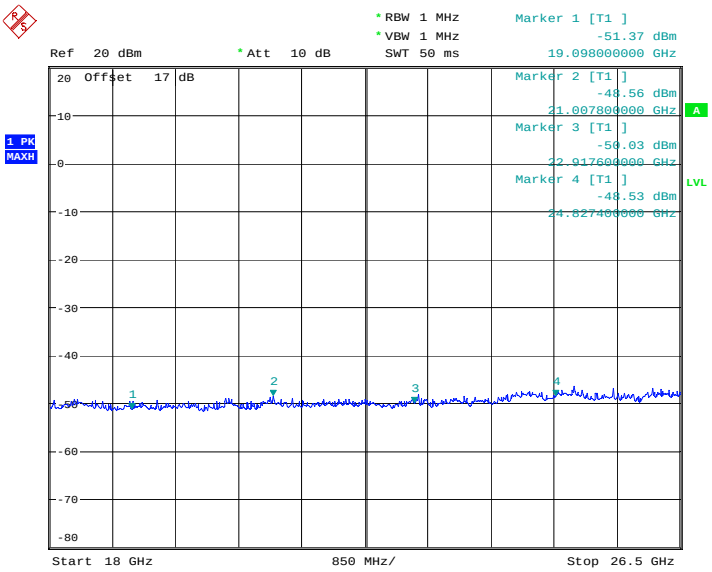
CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:15:29



CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:15:53

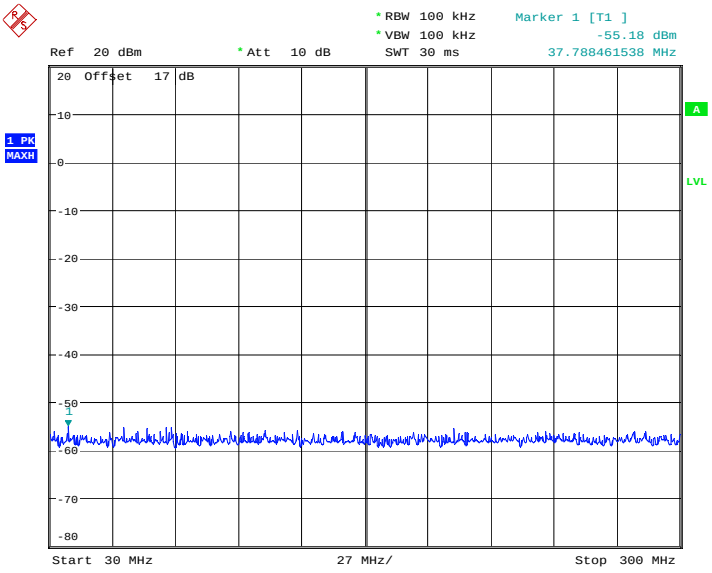


CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:16:18

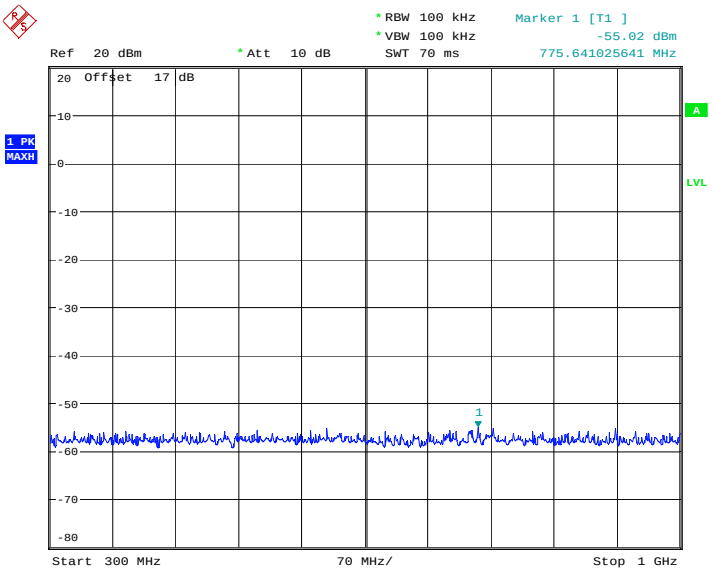


CONDUCTED SPURIOUS EMISSION 1900 BAND CH810
Date: 16.NOV.2009 14:16:50

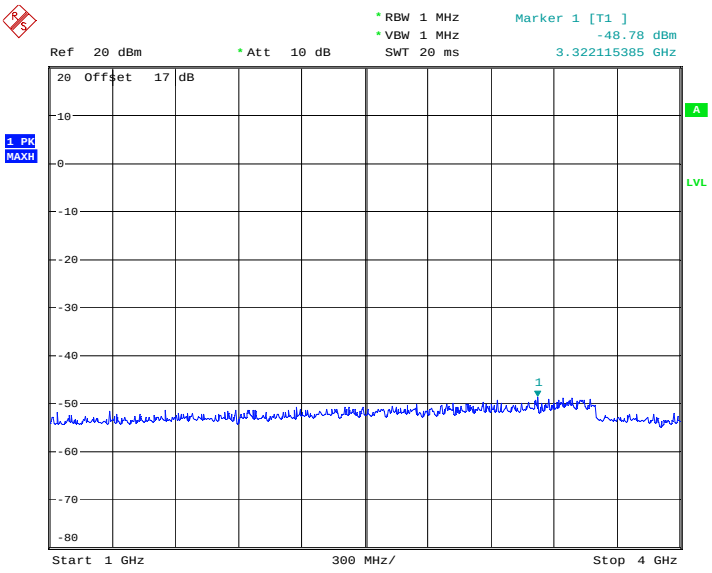
1900MHz Band Idle



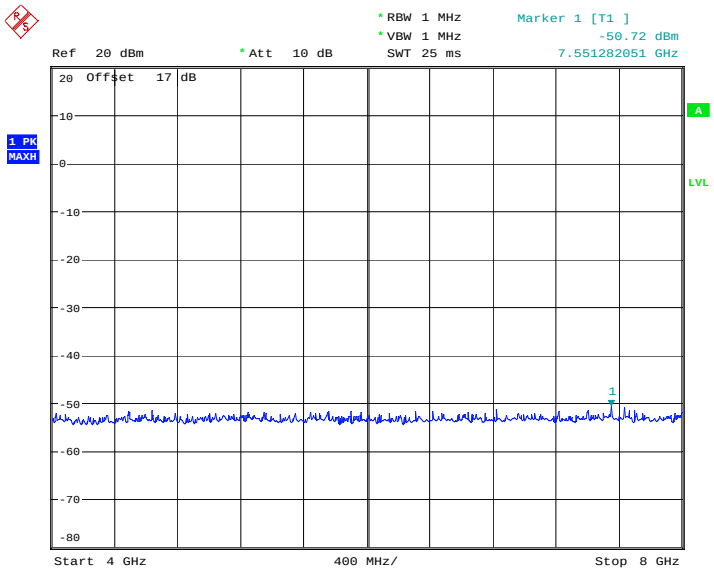
CONDUCTED SPURIOUS EMISSION 1900 BAND IDLE
Date: 16.NOV.2009 14:05:25



CONDUCTED SPURIOUS EMISSION 1900 BAND IDLE
Date: 16.NOV.2009 14:05:12



CONDUCTED SPURIOUS EMISSION 1900 BAND IDLE
Date: 16.NOV.2009 14:04:53



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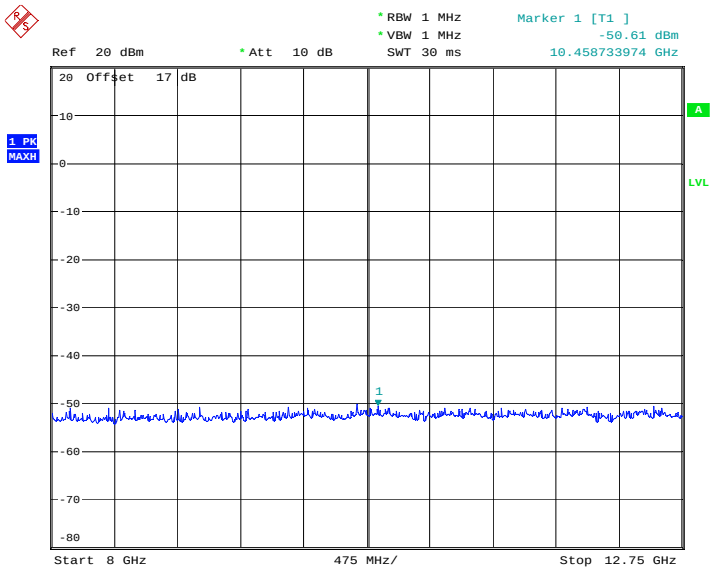
Date: 16.NOV.2009 14:04:40



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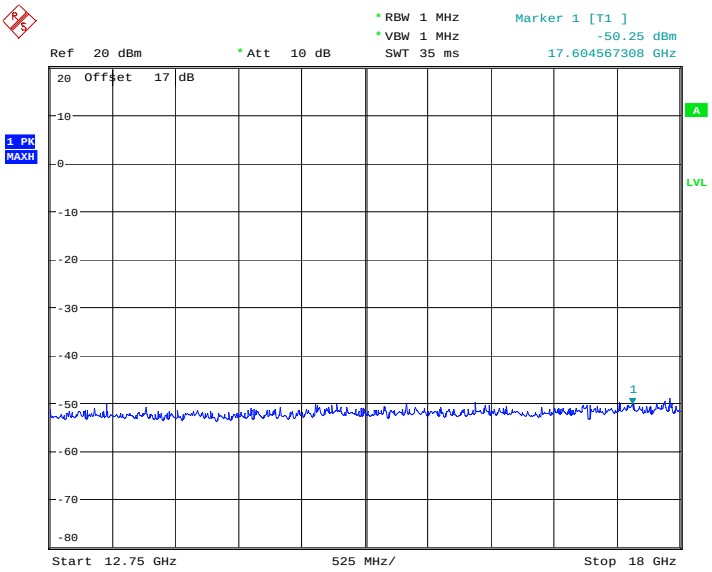
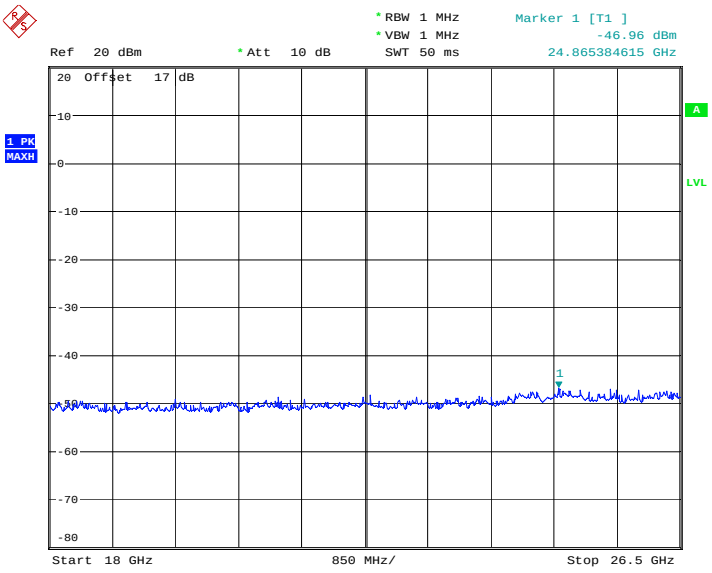
Date: 16.NOV.2009 14:04:23

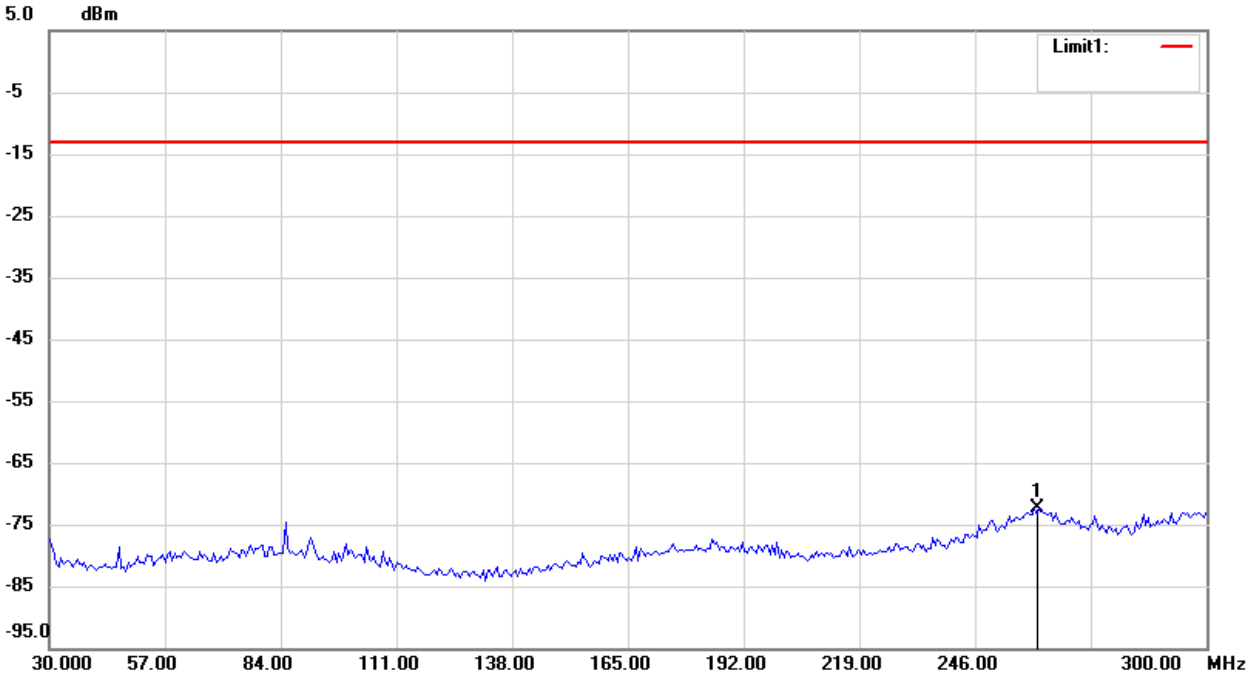


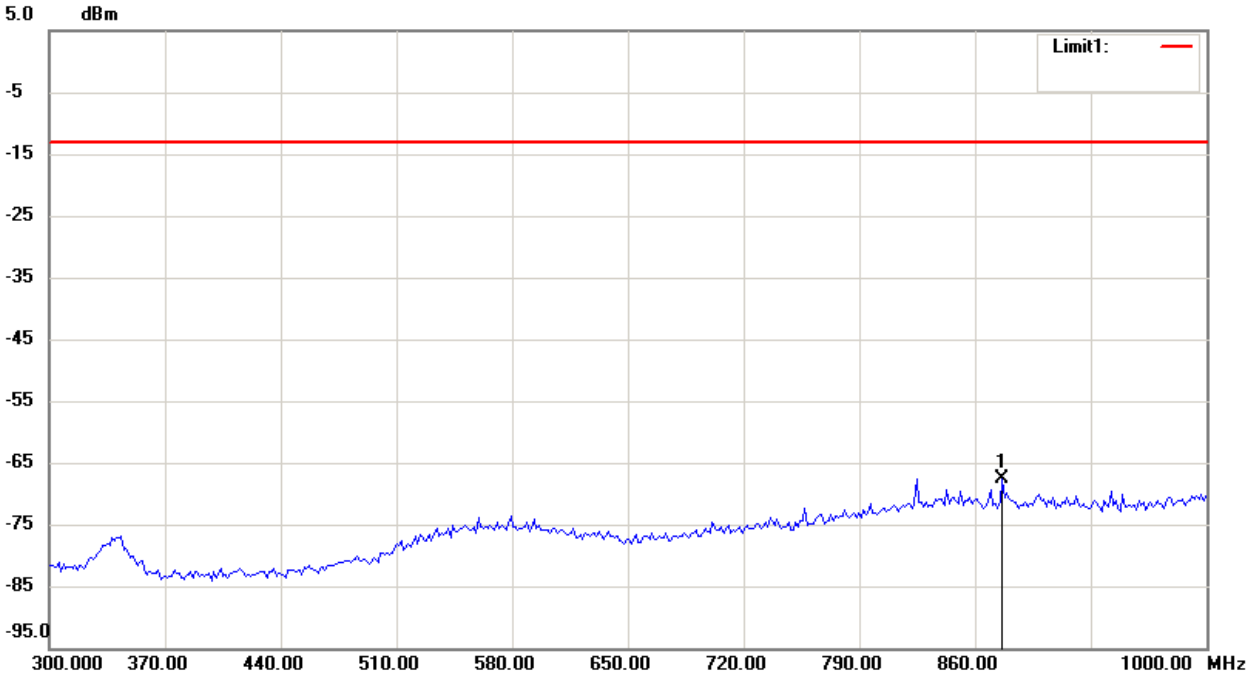
CONDUCTED SPURIOUS EMISSION 1900 BAND IDLE
Date: 16.NOV.2009 14:04:12



CONDUCTED SPURIOUS EMISSION 1900 BAND IDLE
Date: 16.NOV.2009 14:03:59

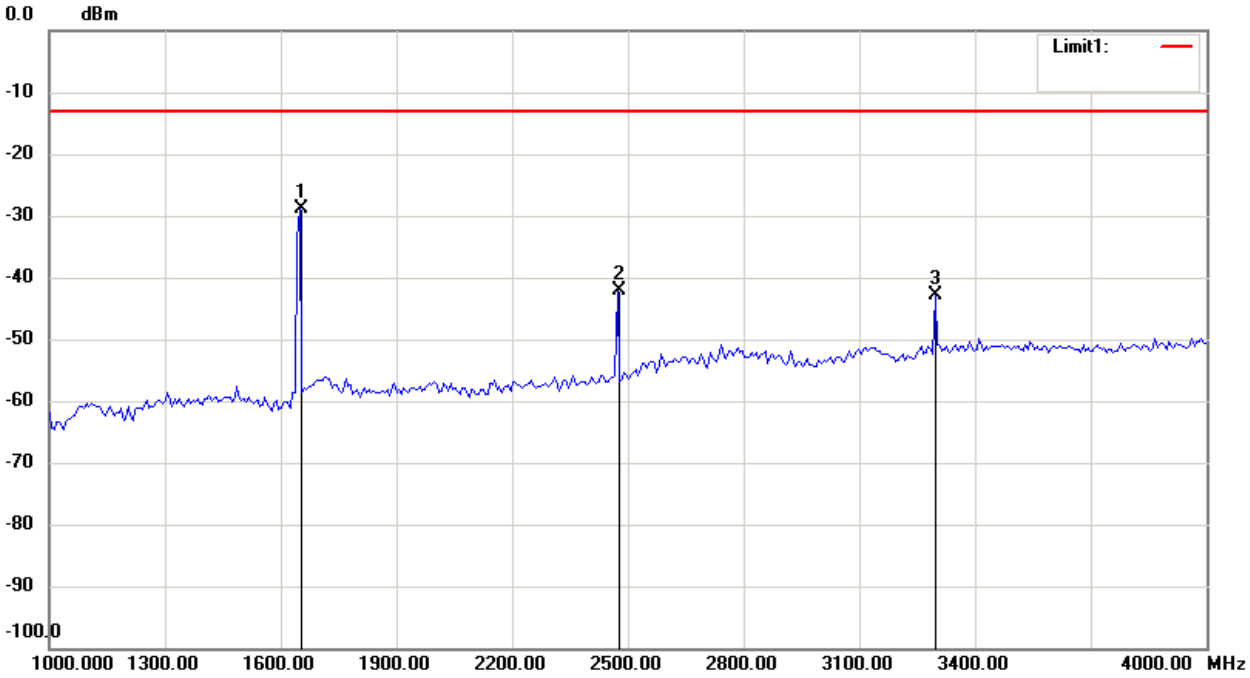
Filed Strength of Spurious Emission
850 band_ CH 128_3.7 V
Antenna Polarization H

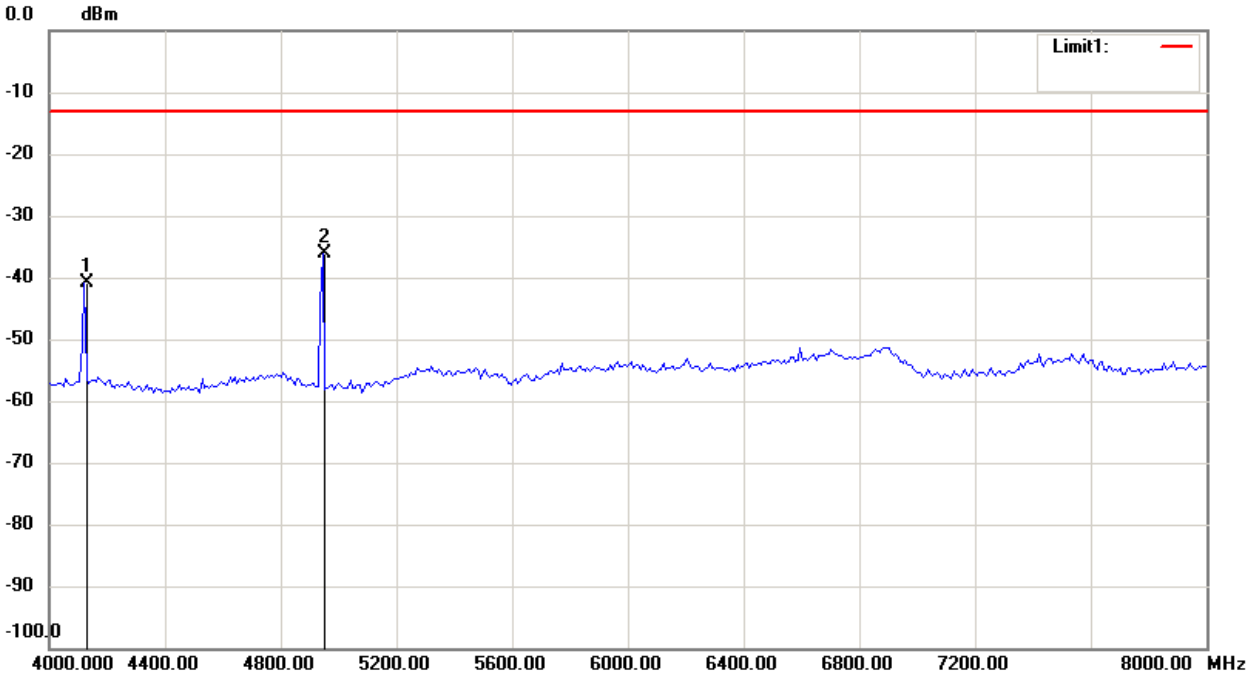




Note:

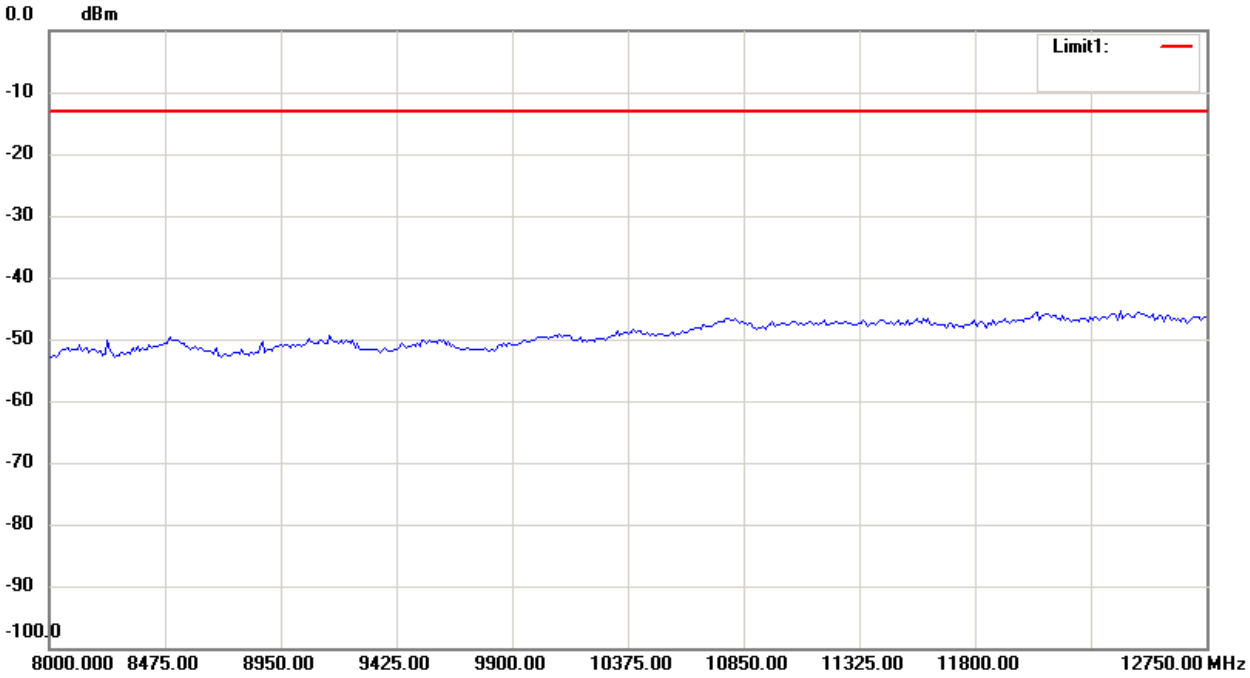
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



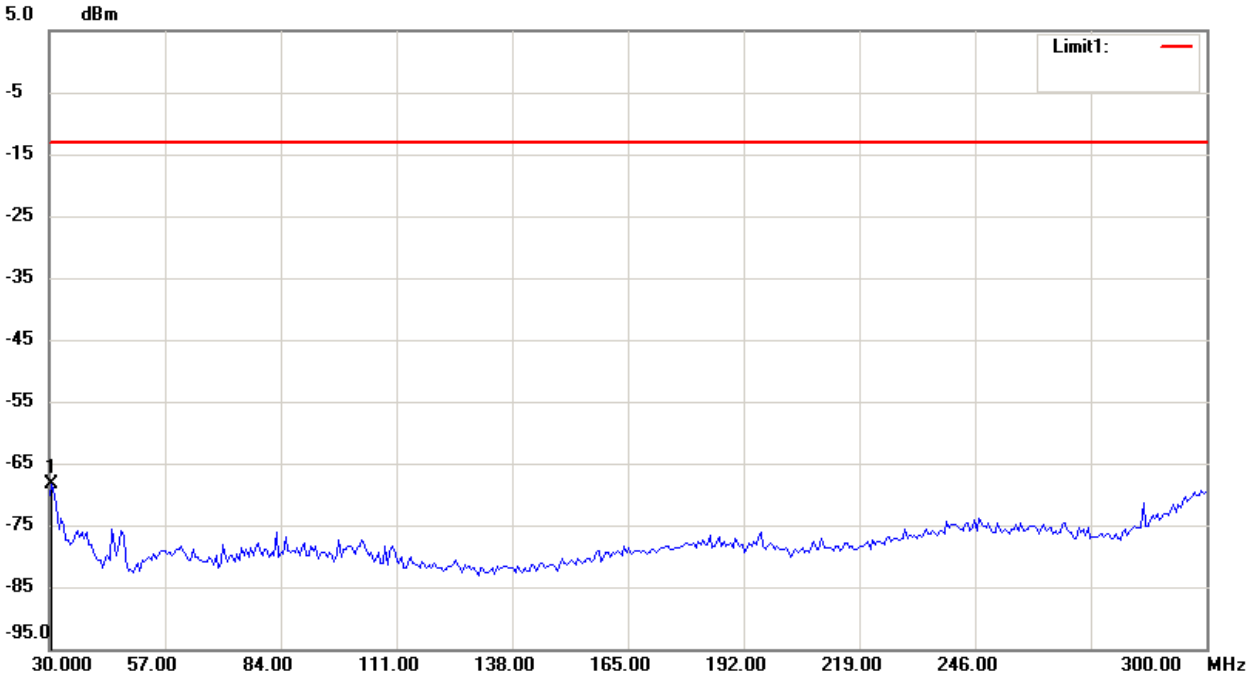


Note:

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.**



Antenna Polarization V



Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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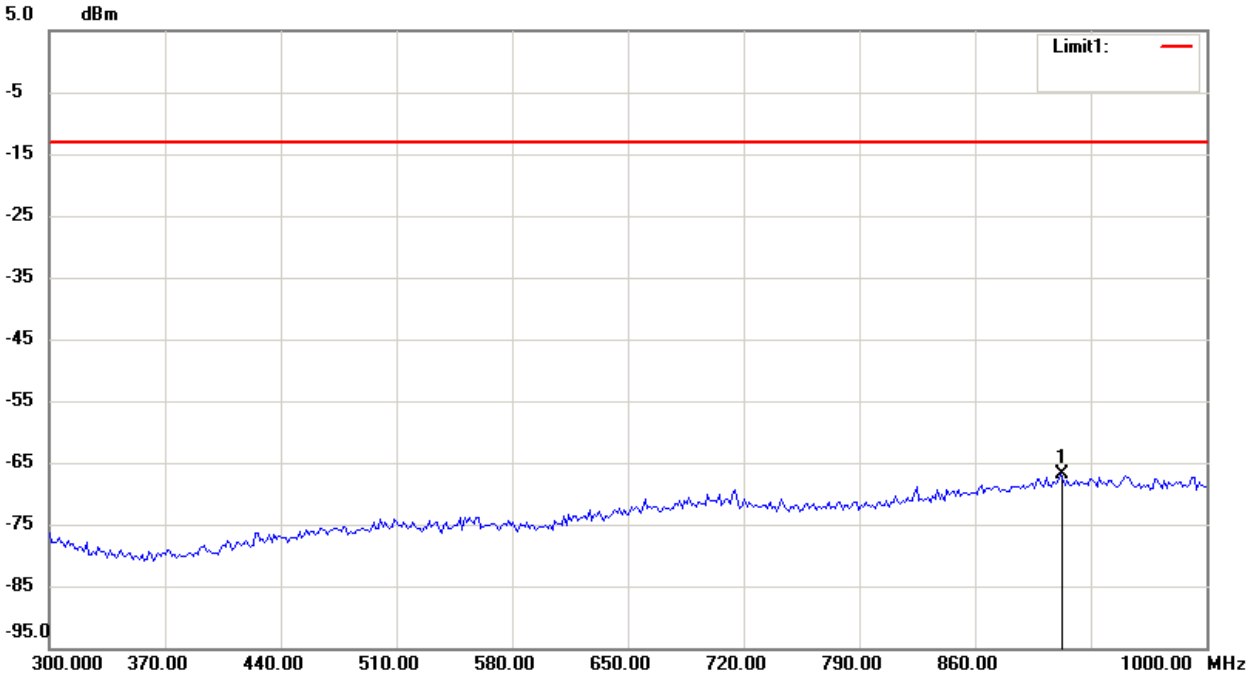
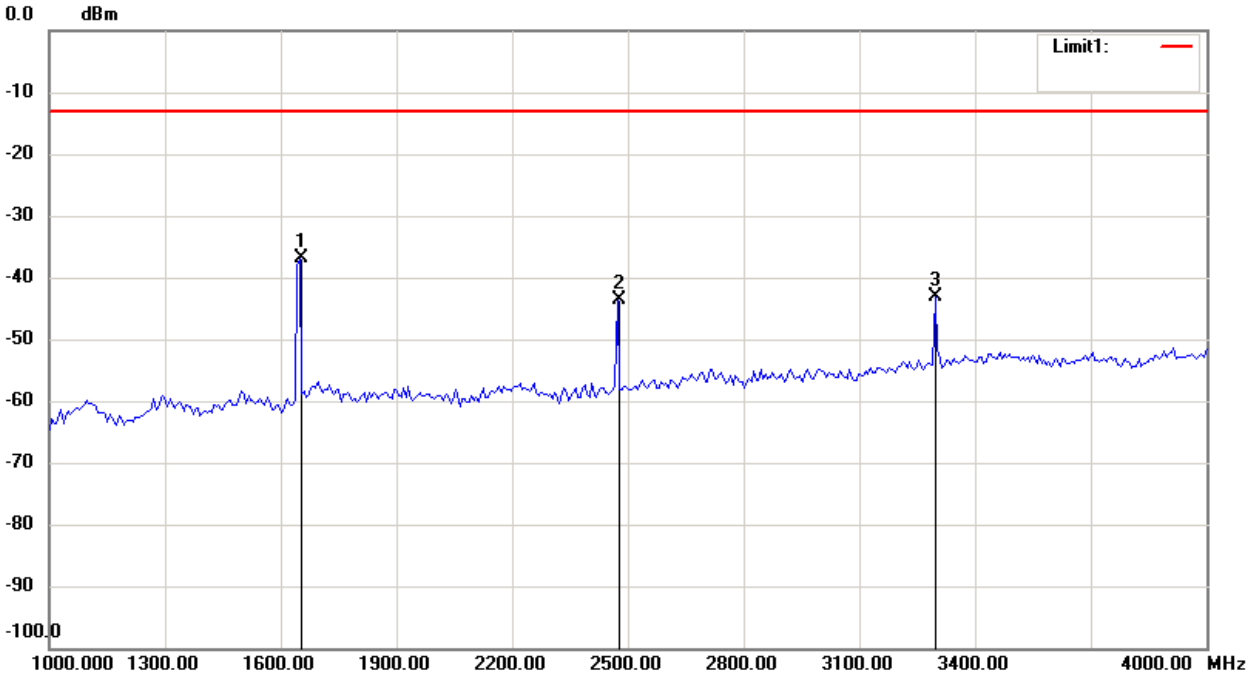
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

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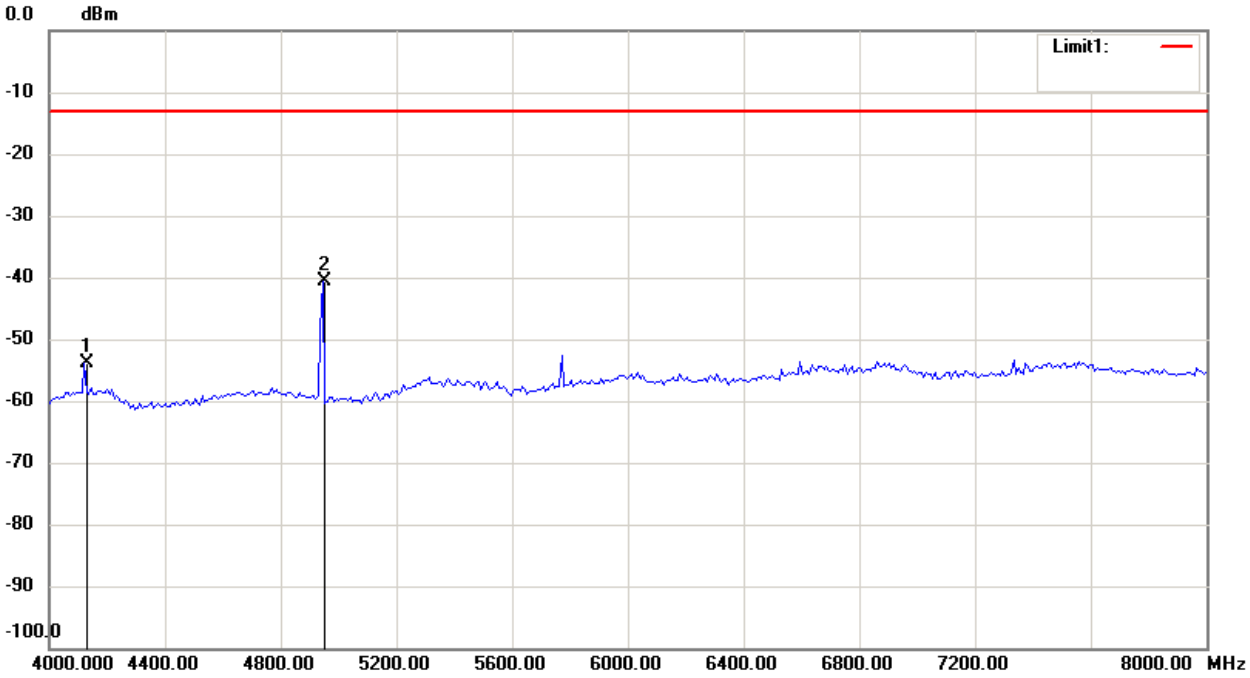
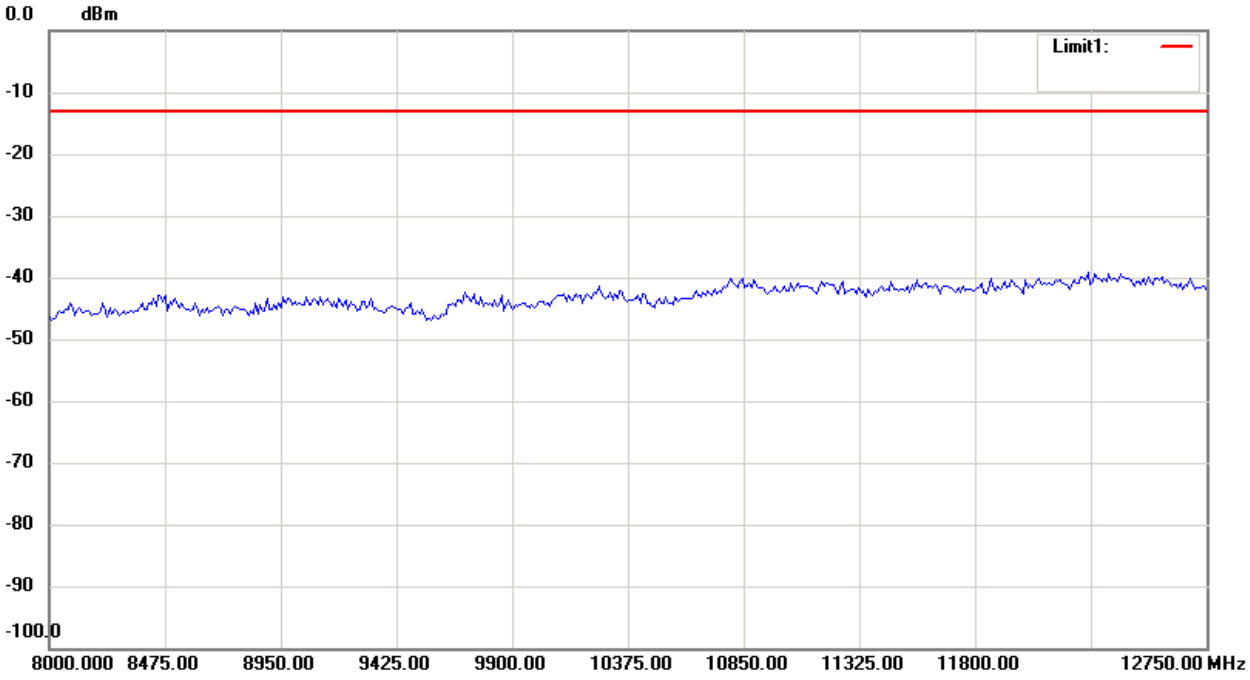
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

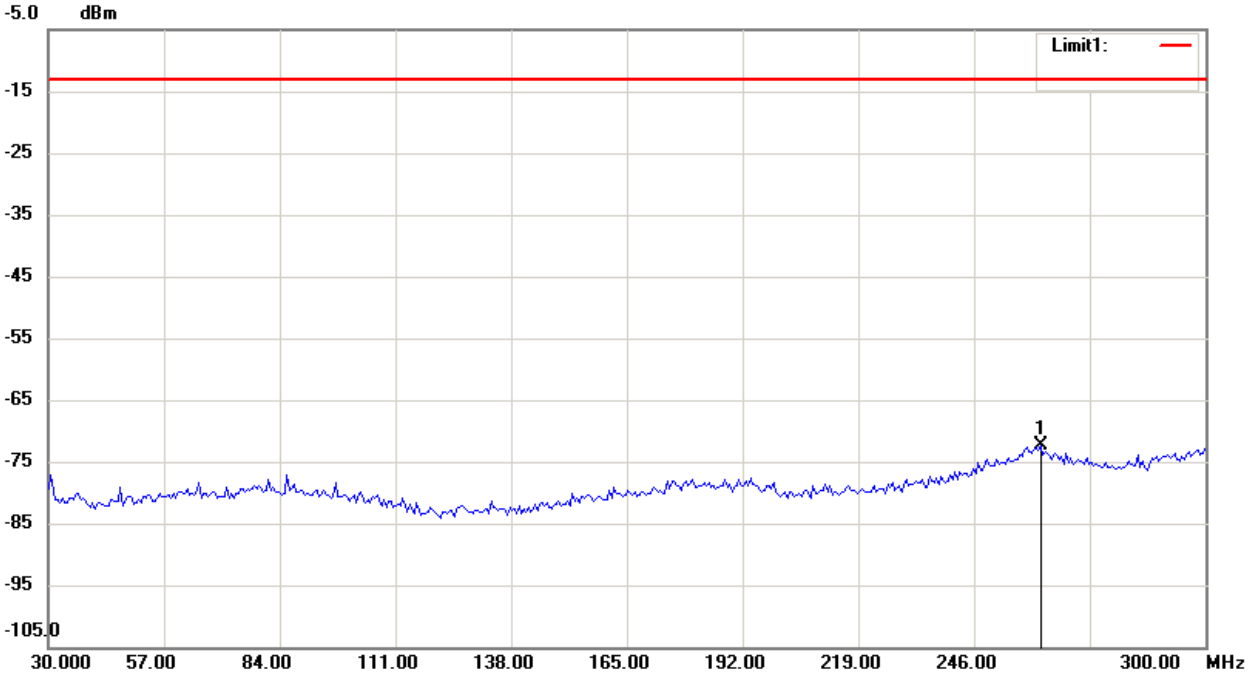


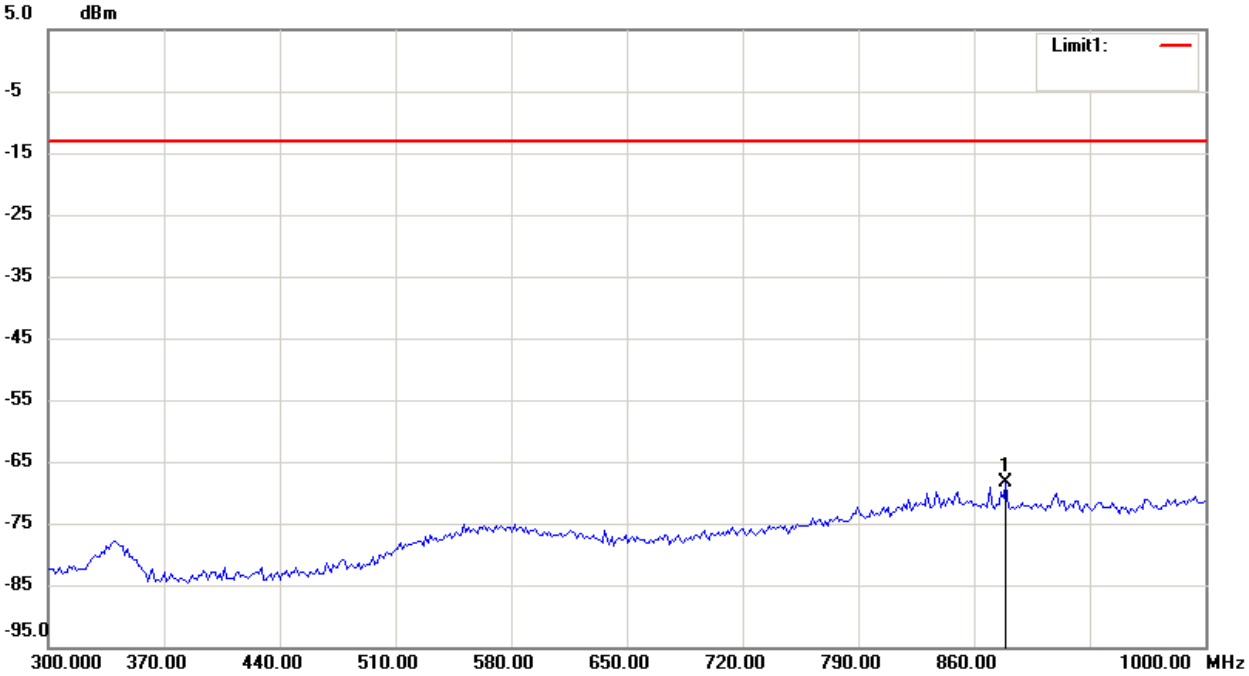


Note:

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.**

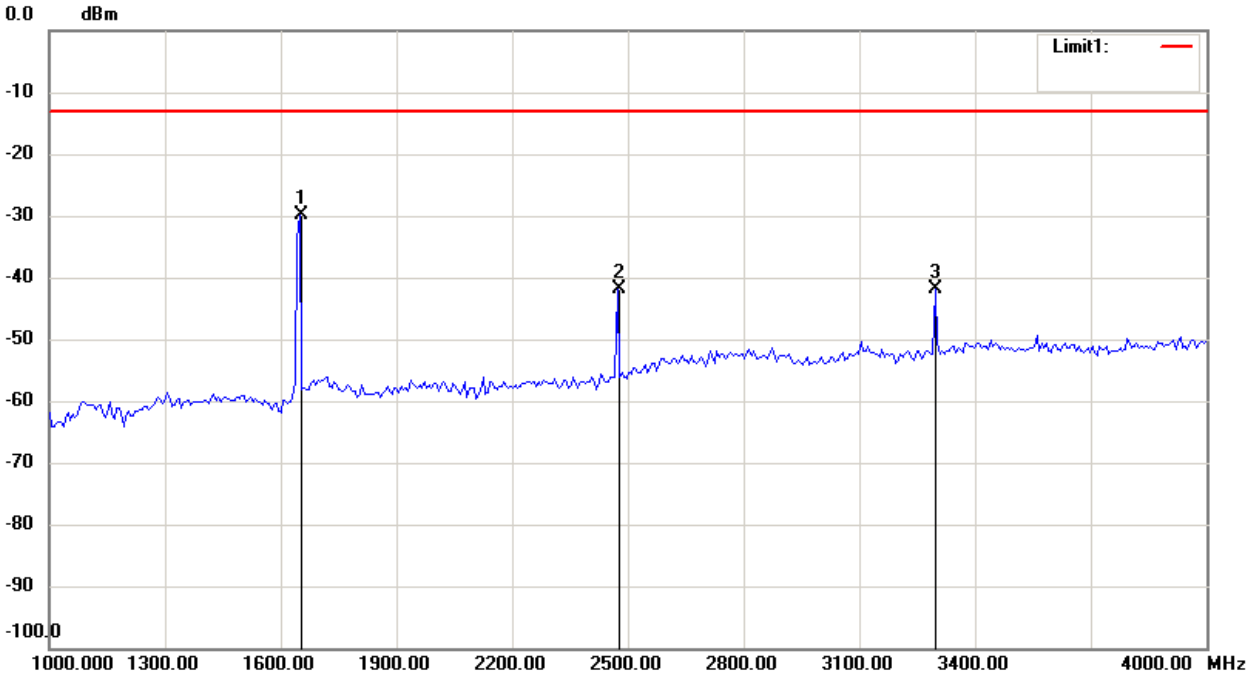
850 band_ CH 128_3.6 V
Antenna Polarization H

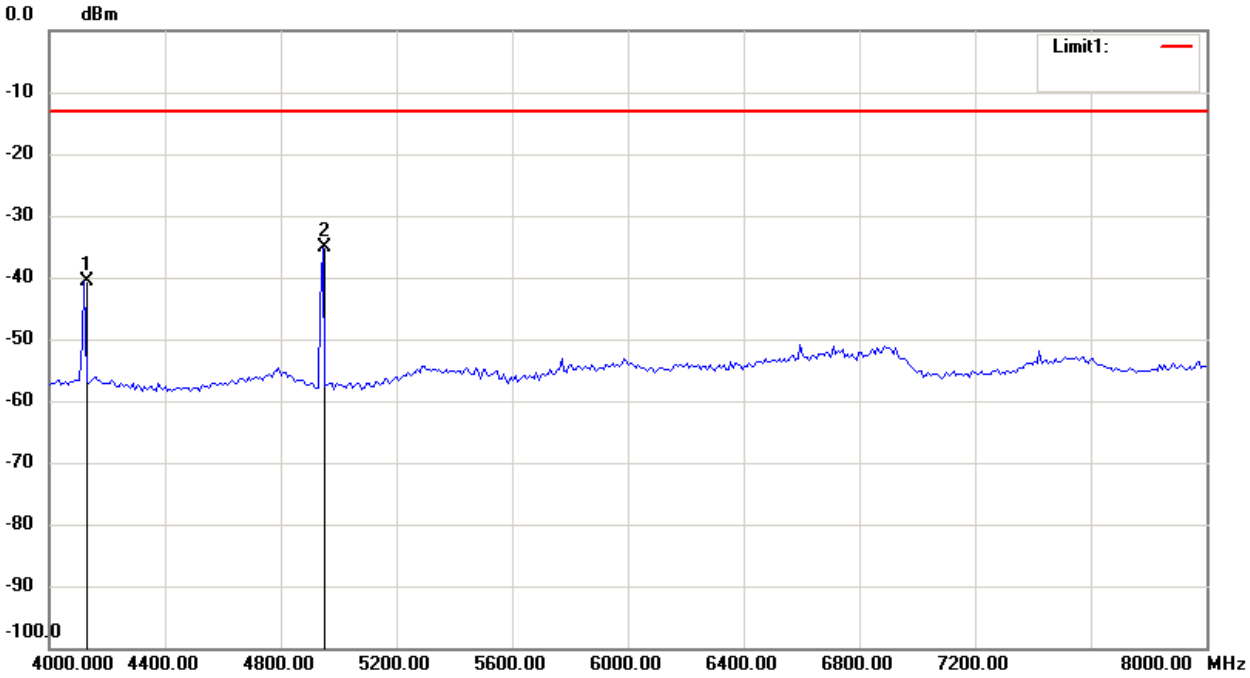




Note:

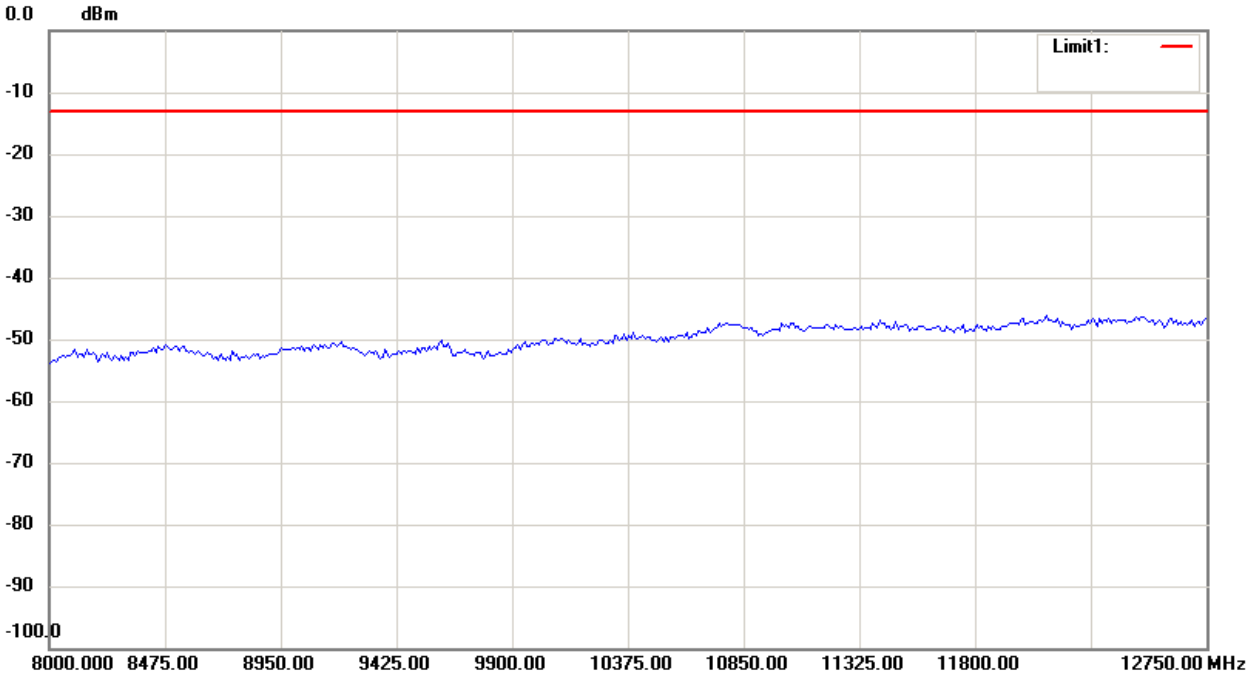
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



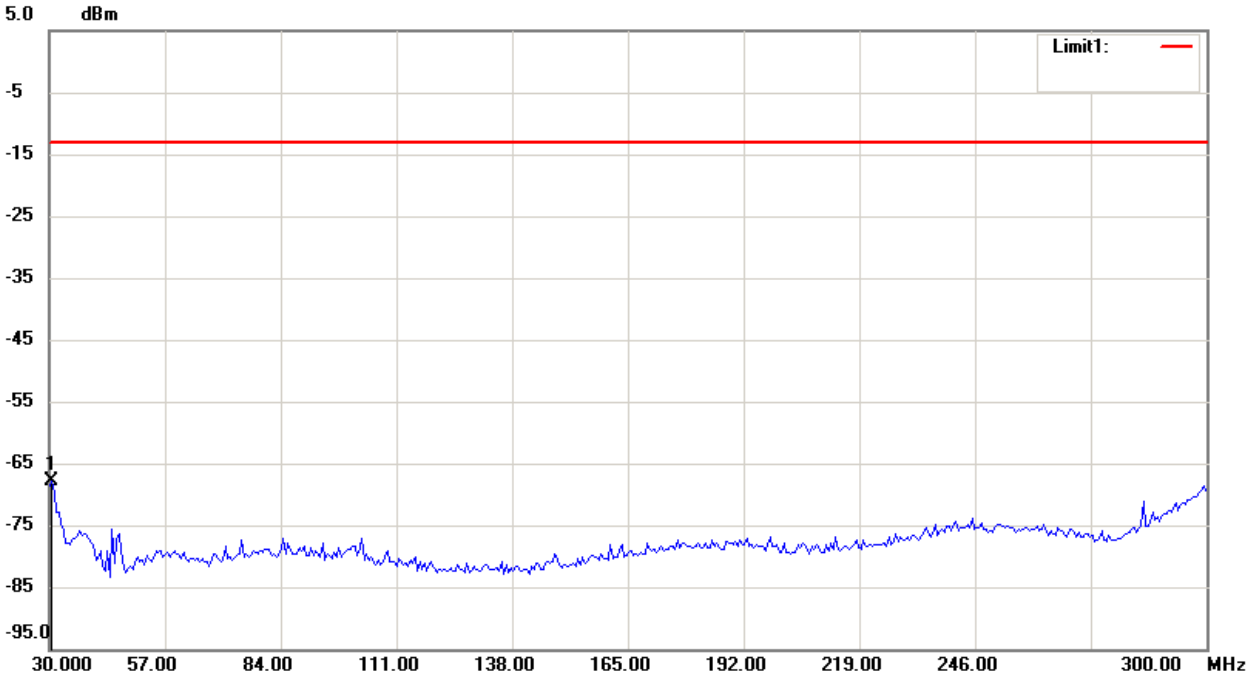


Note:

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.**

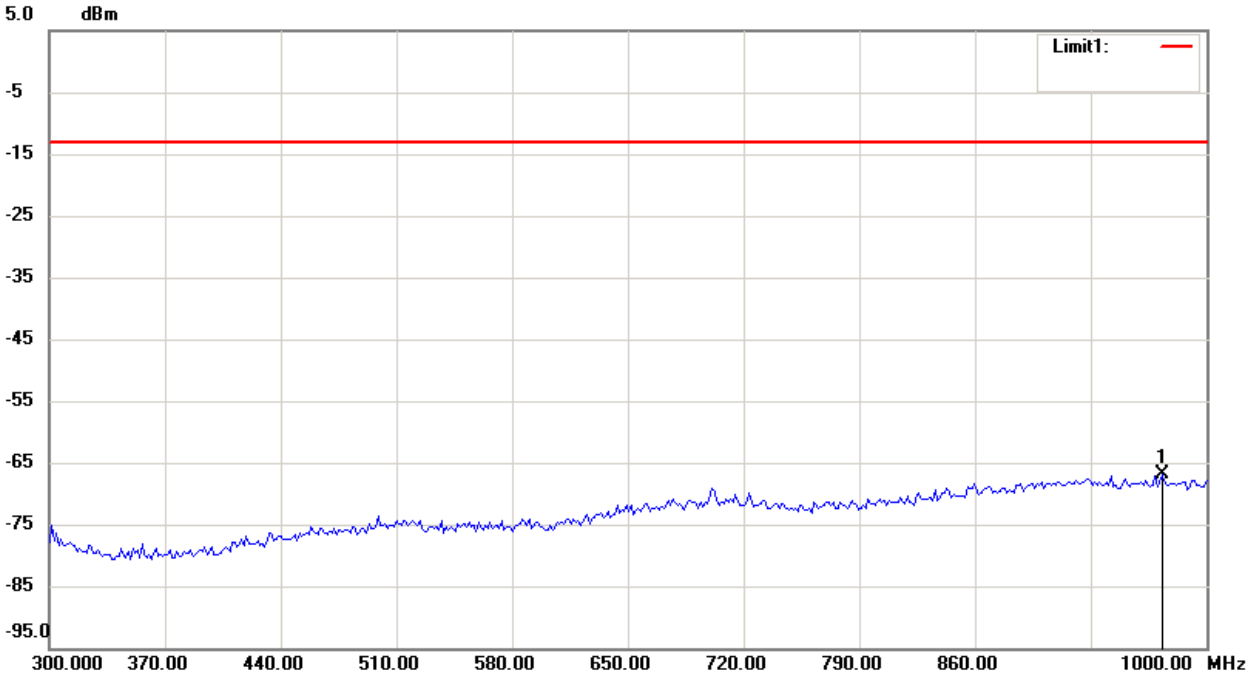


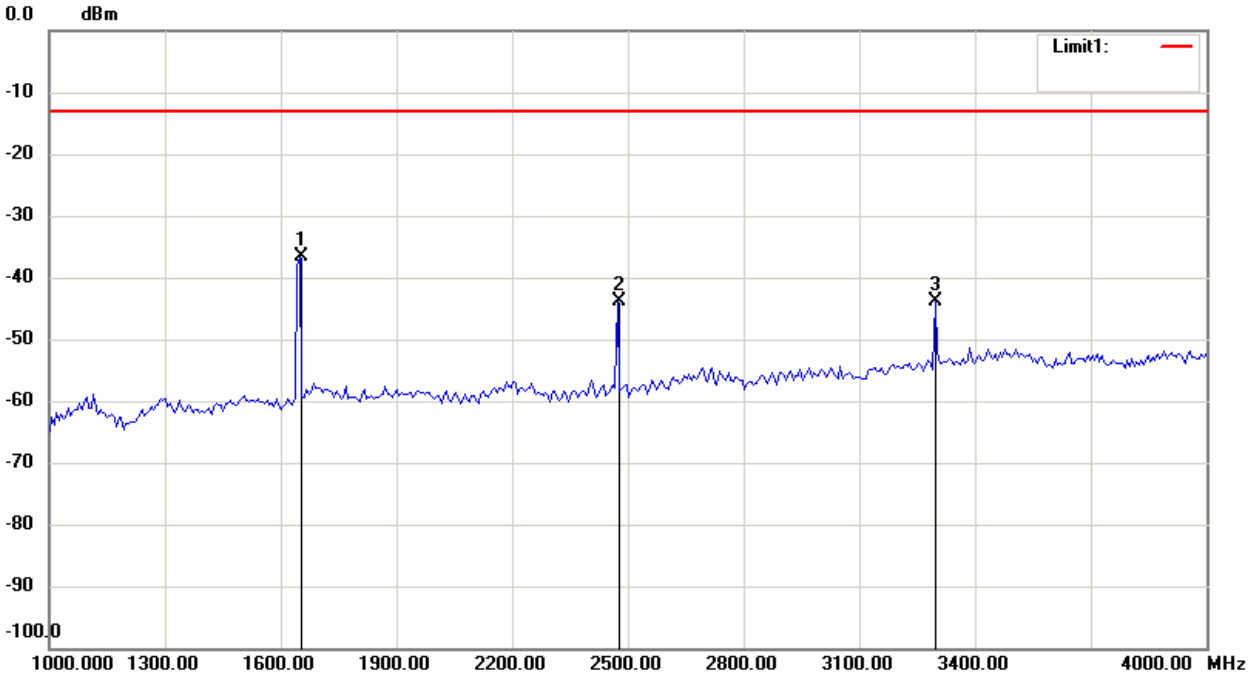
Antenna Polarization V



Note:

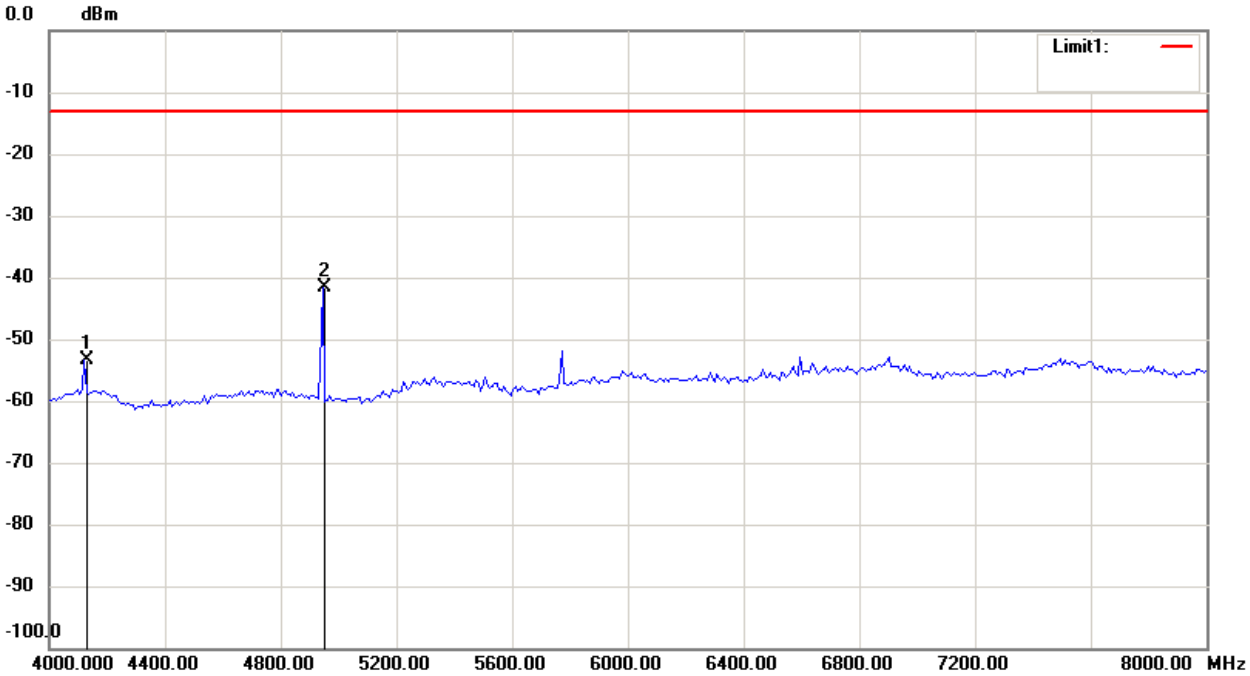
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

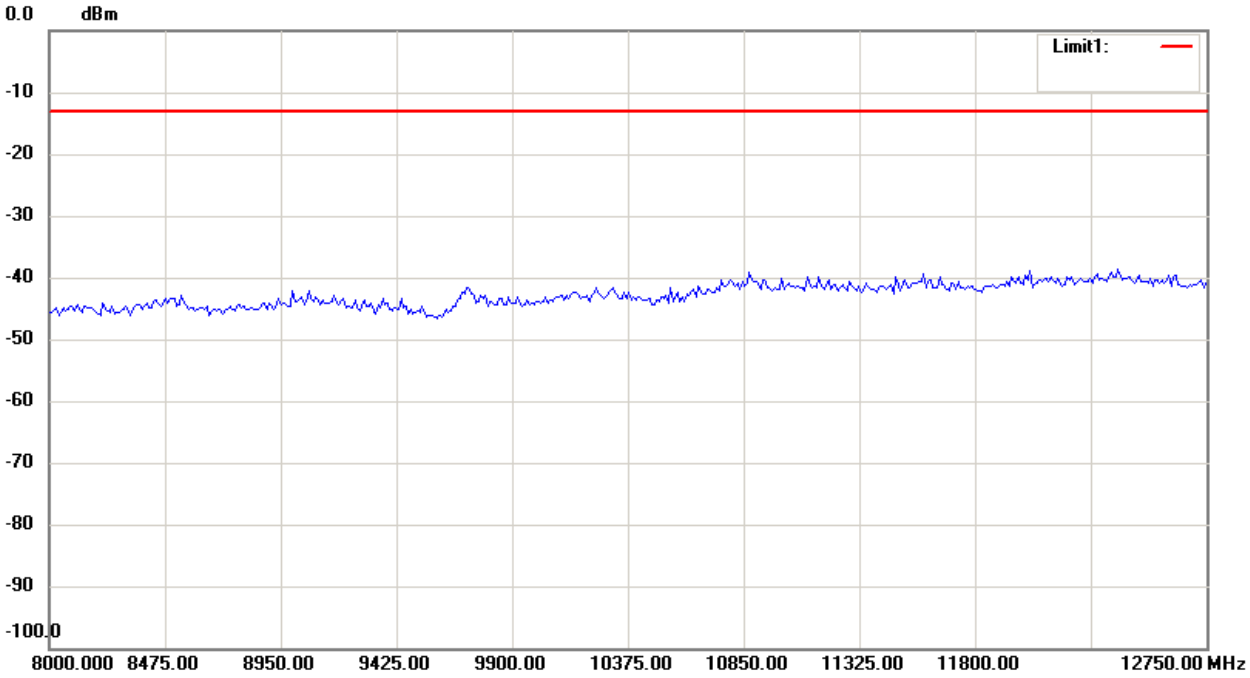




Note:

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.**





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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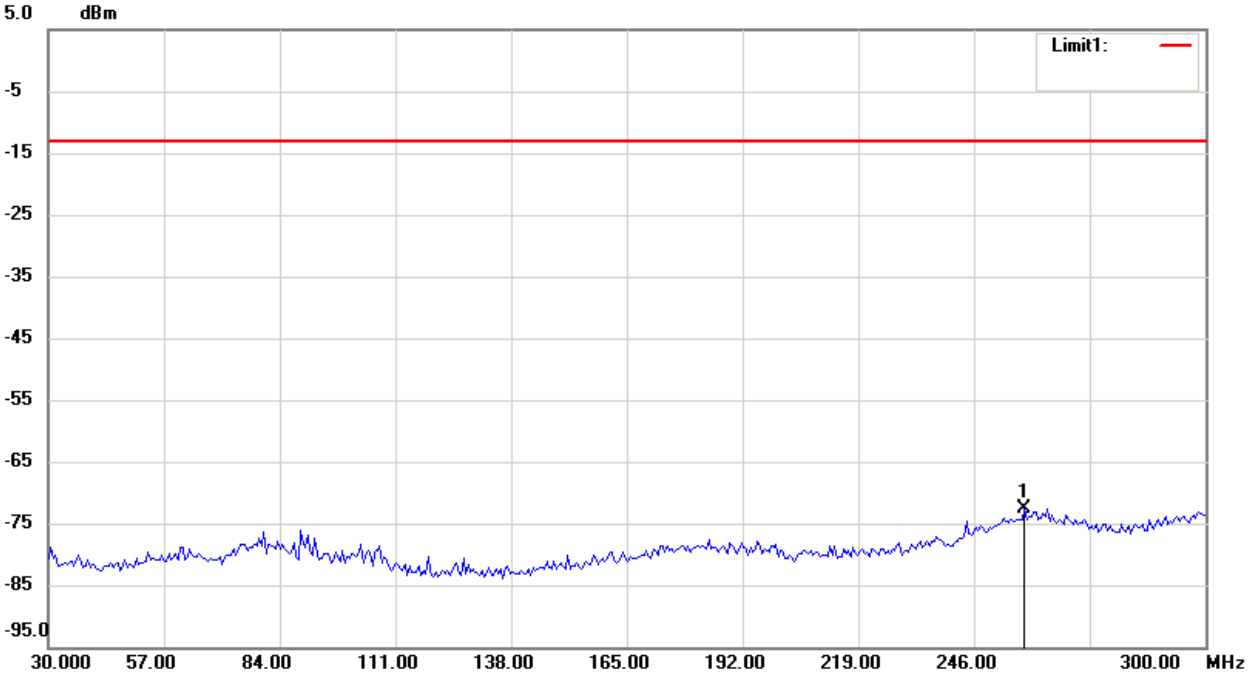
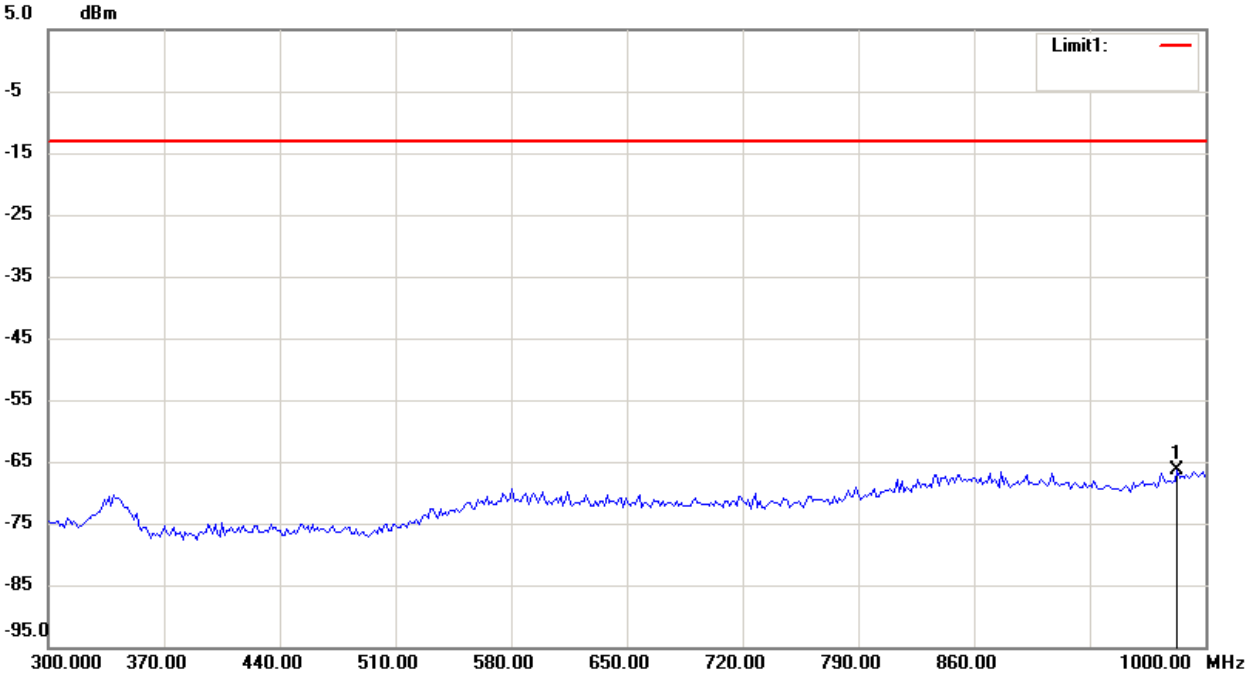
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

850 band_ CH 188_3.7 V
Antenna Polarization H





Note:

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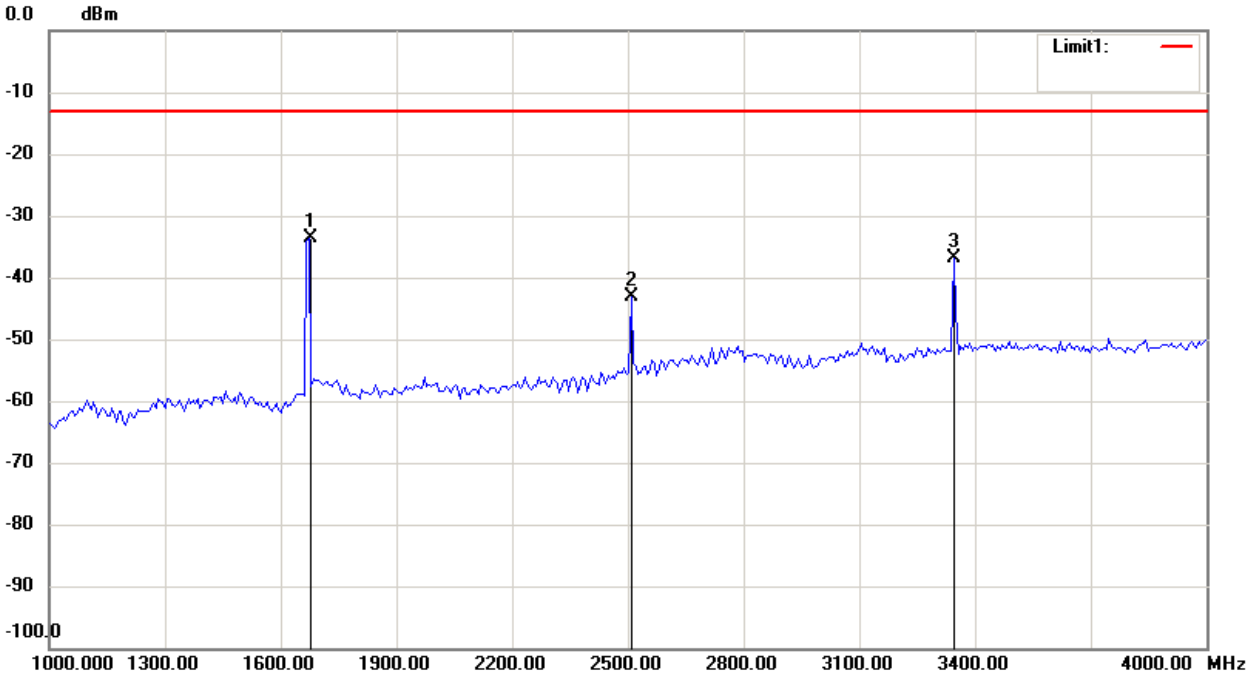
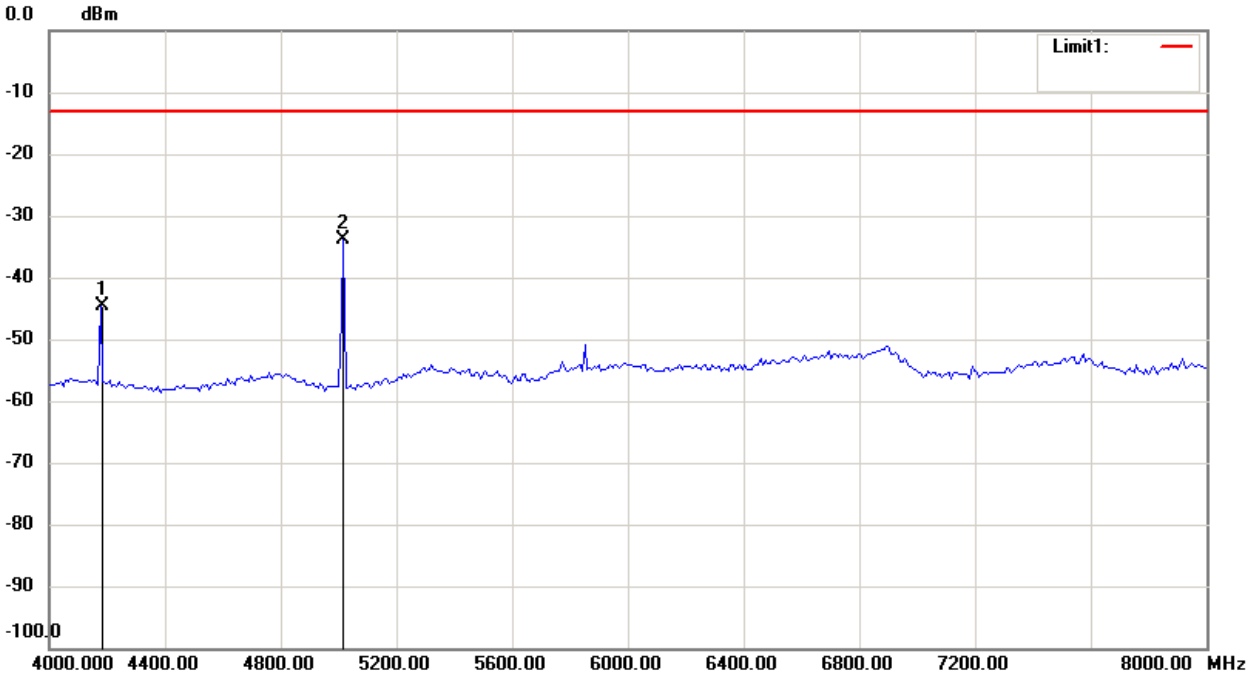
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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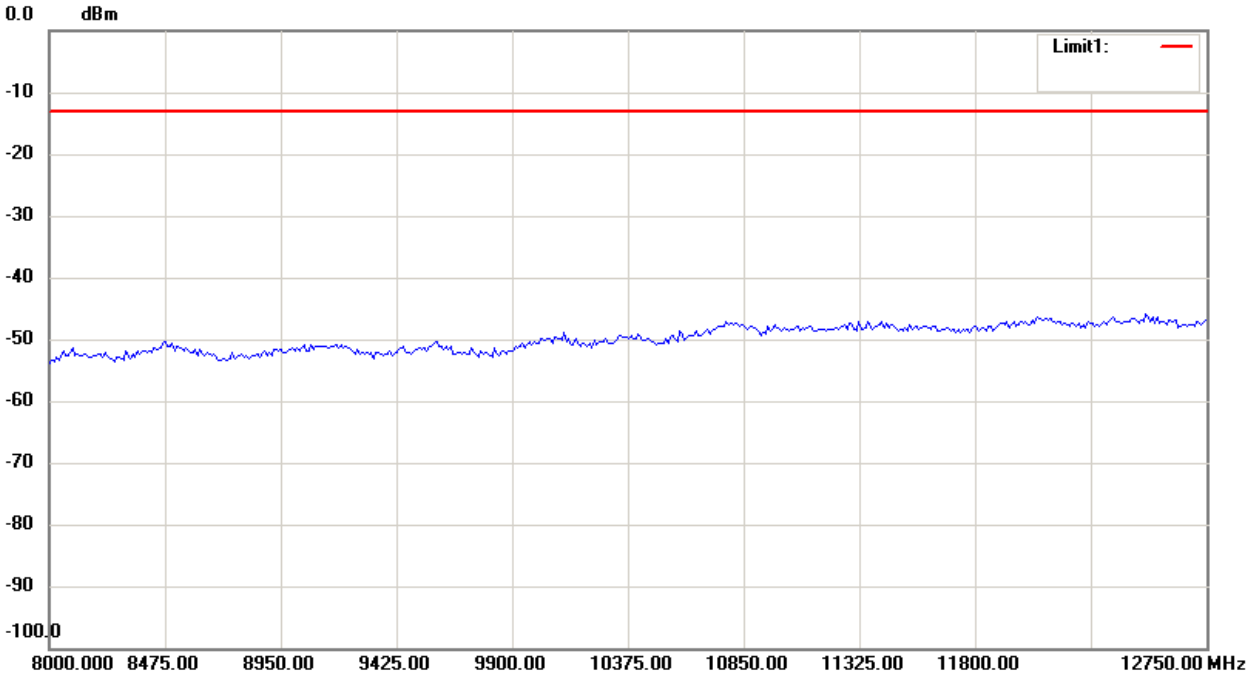
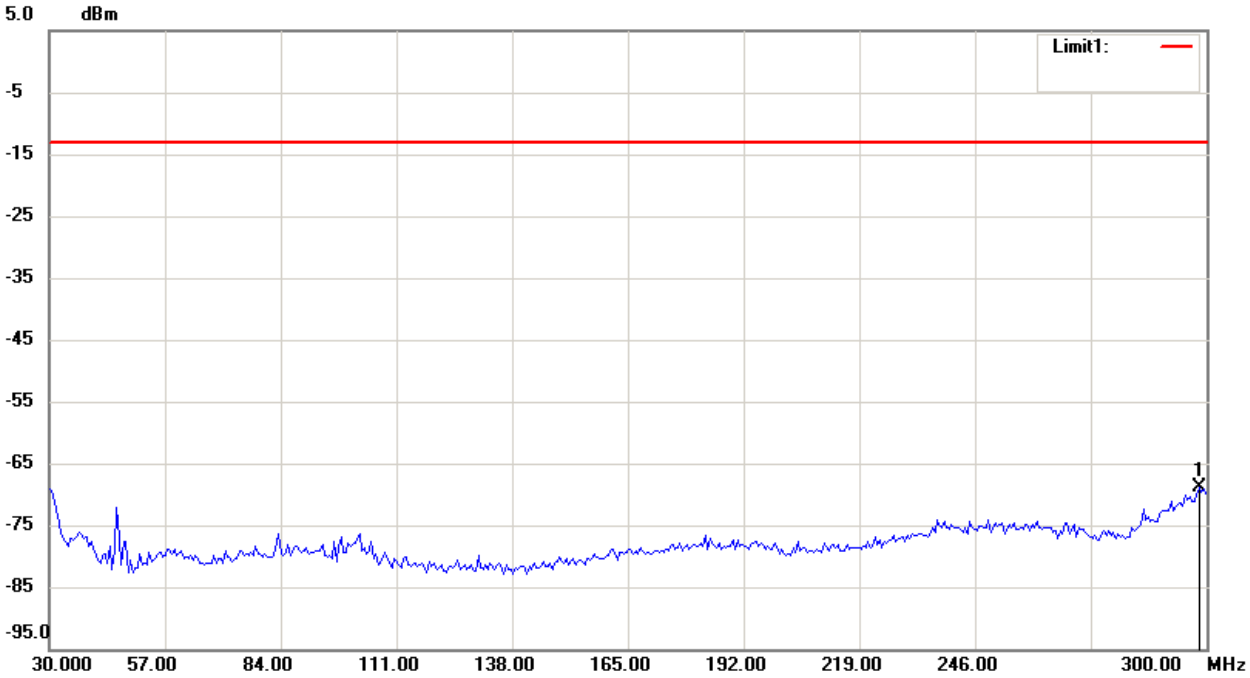


Antenna Polarization V



Note:

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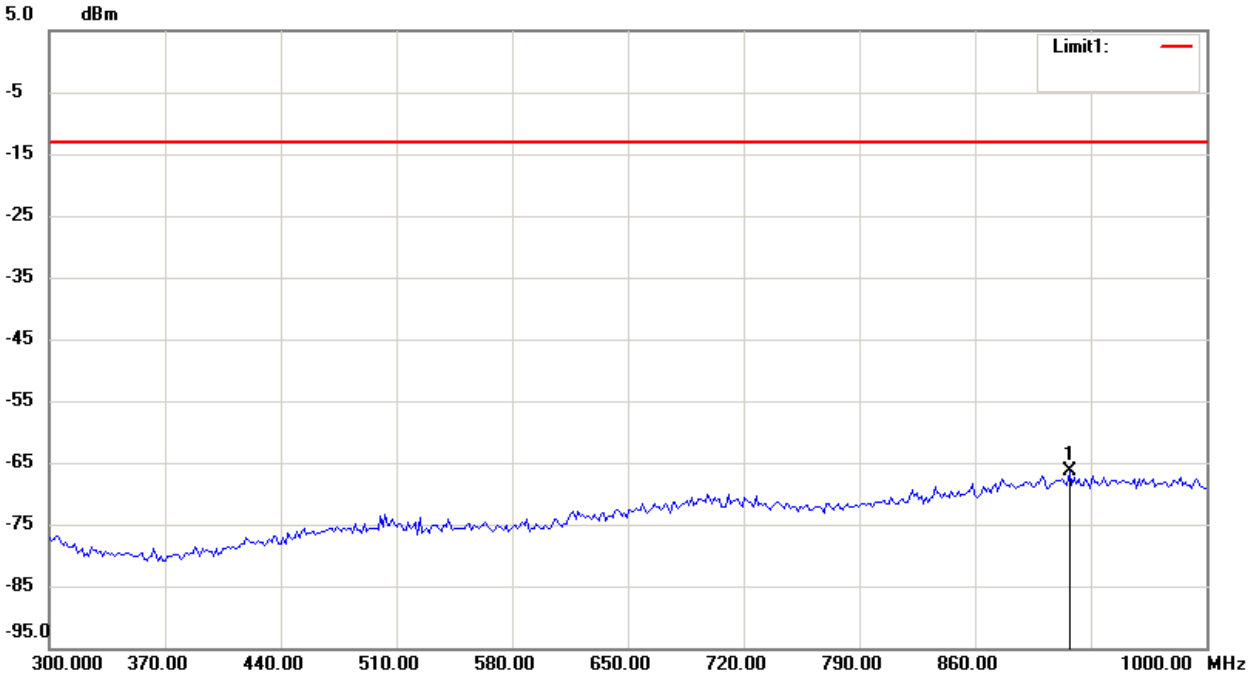

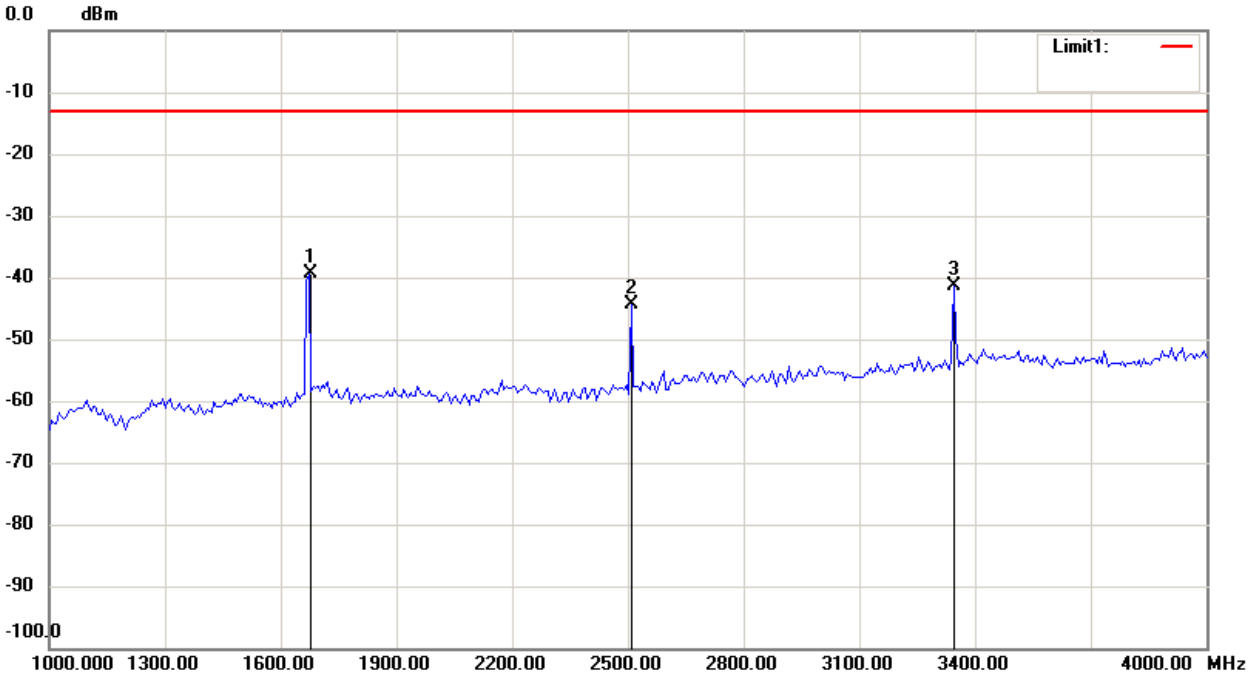

Note:

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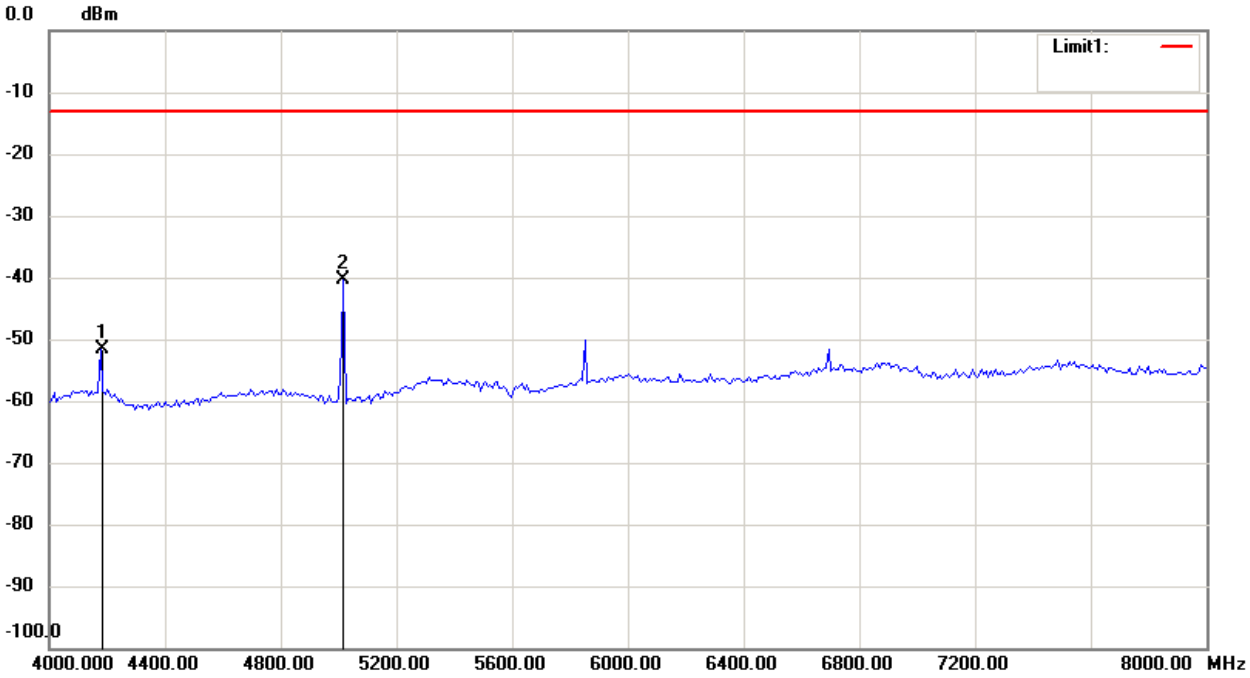

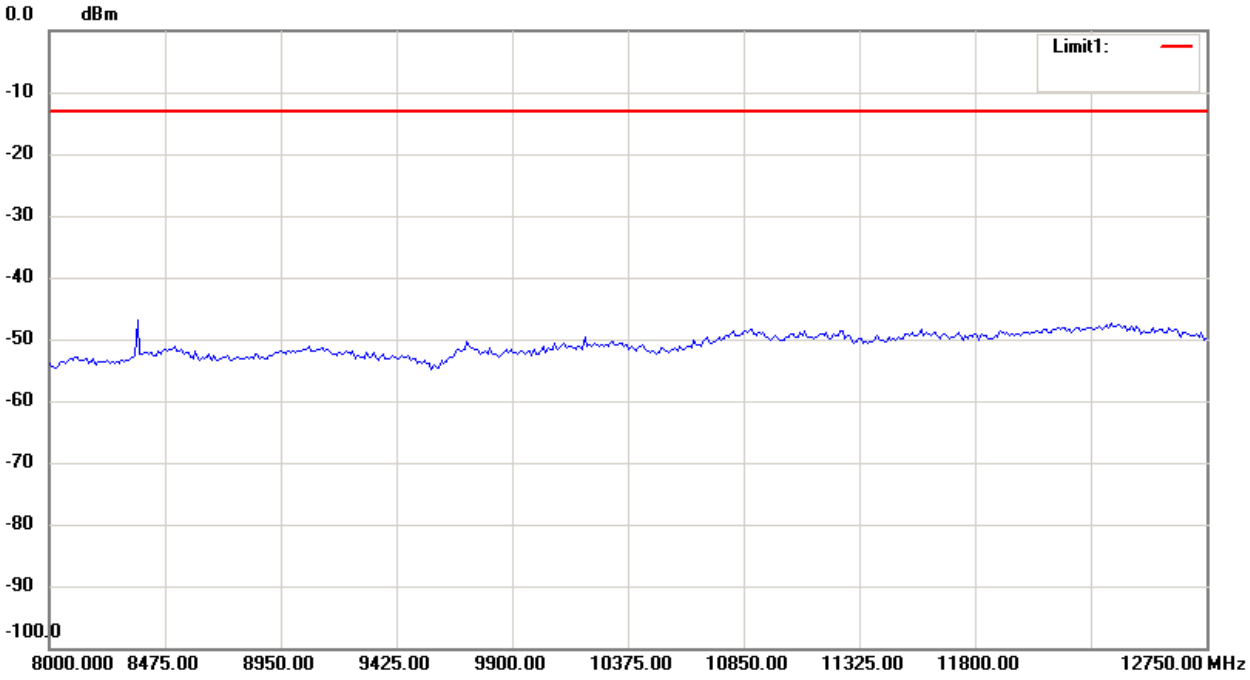

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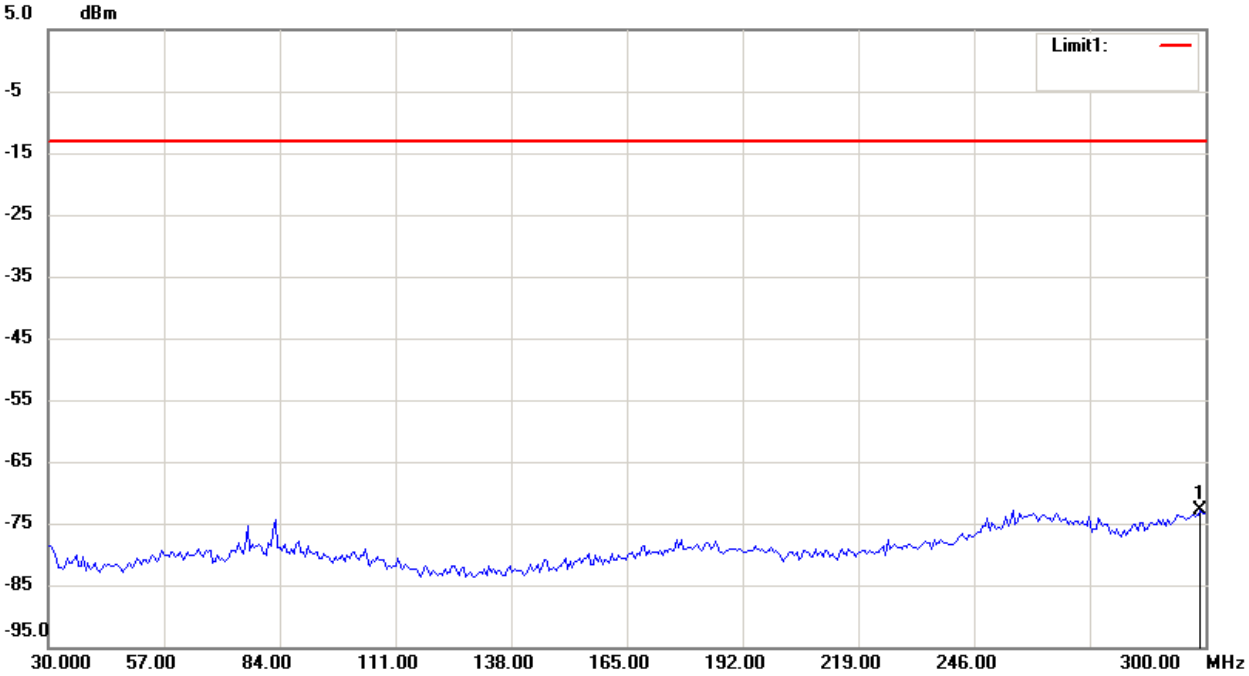
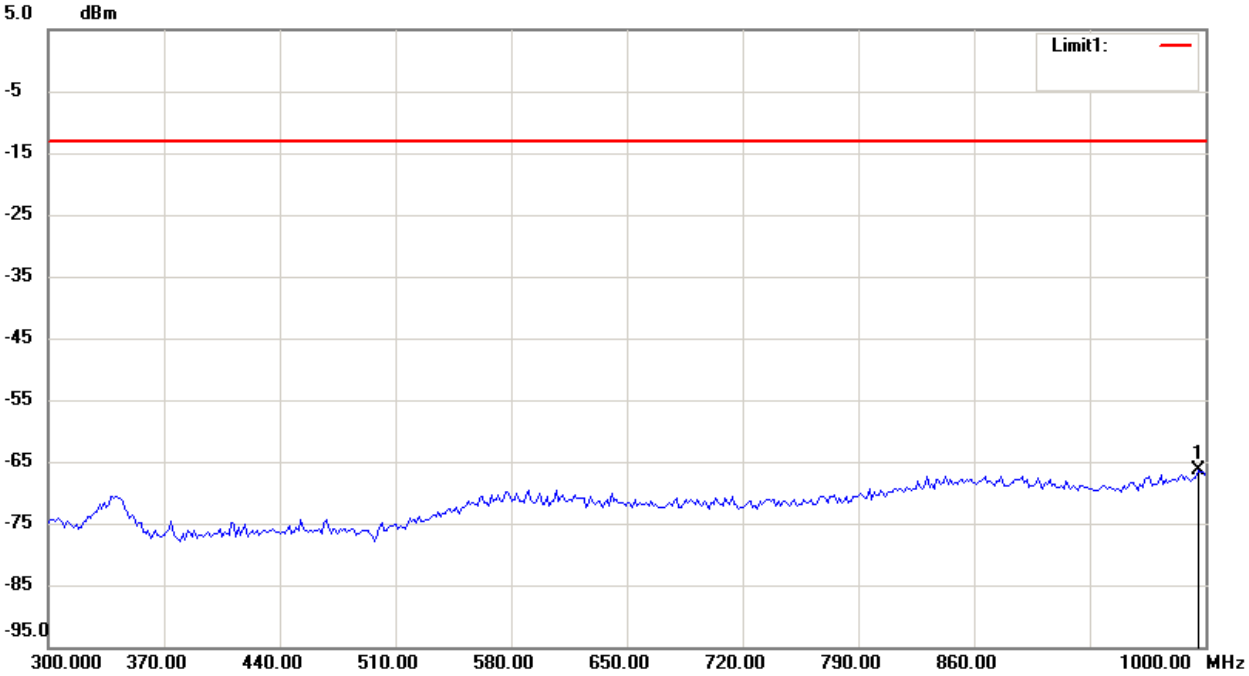
850 band_ CH 188_3.6 V
Antenna Polarization H





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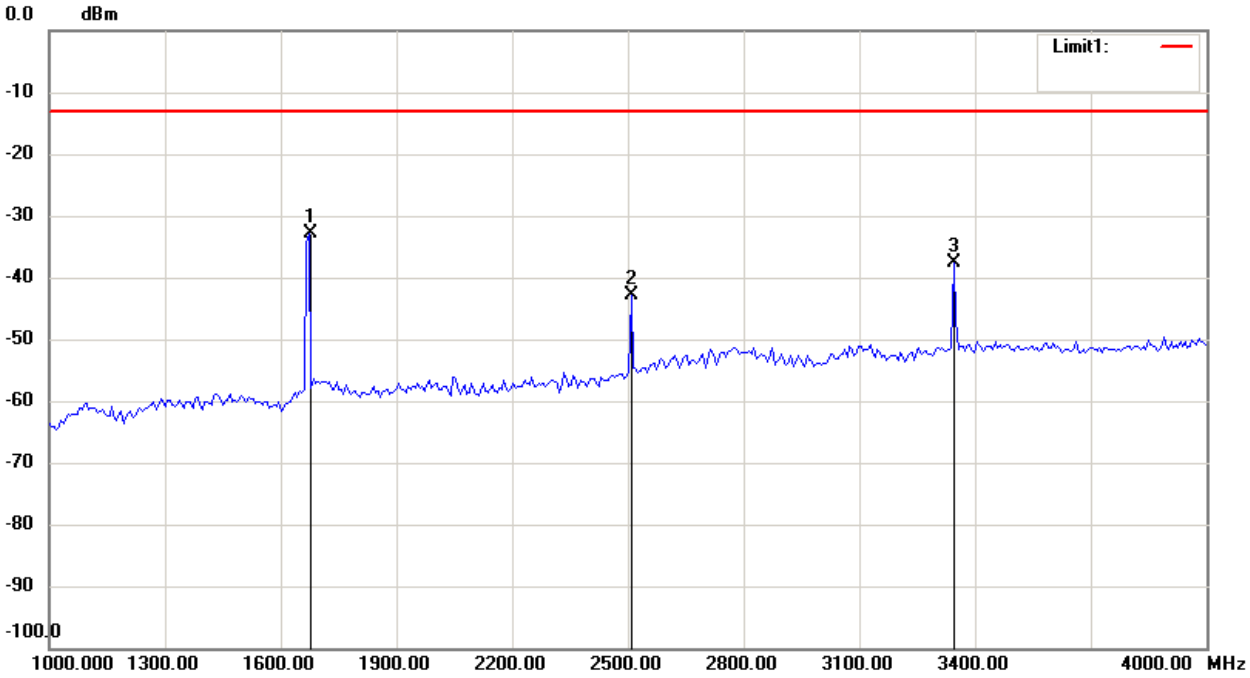
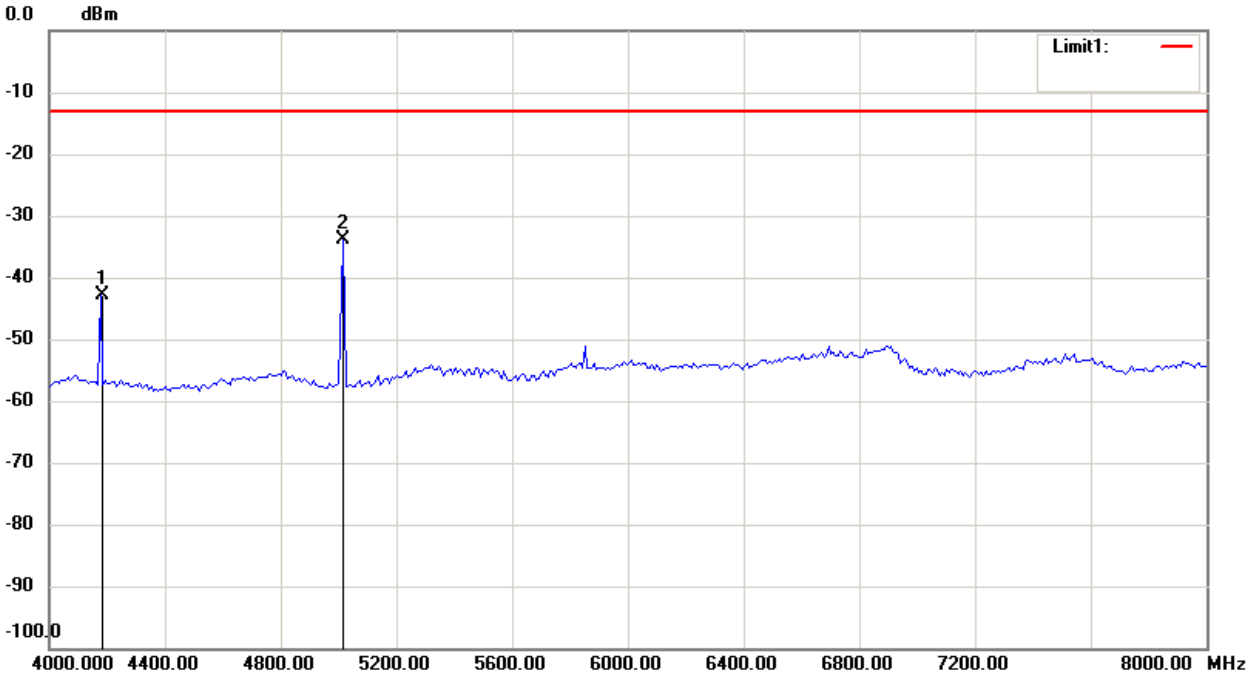
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





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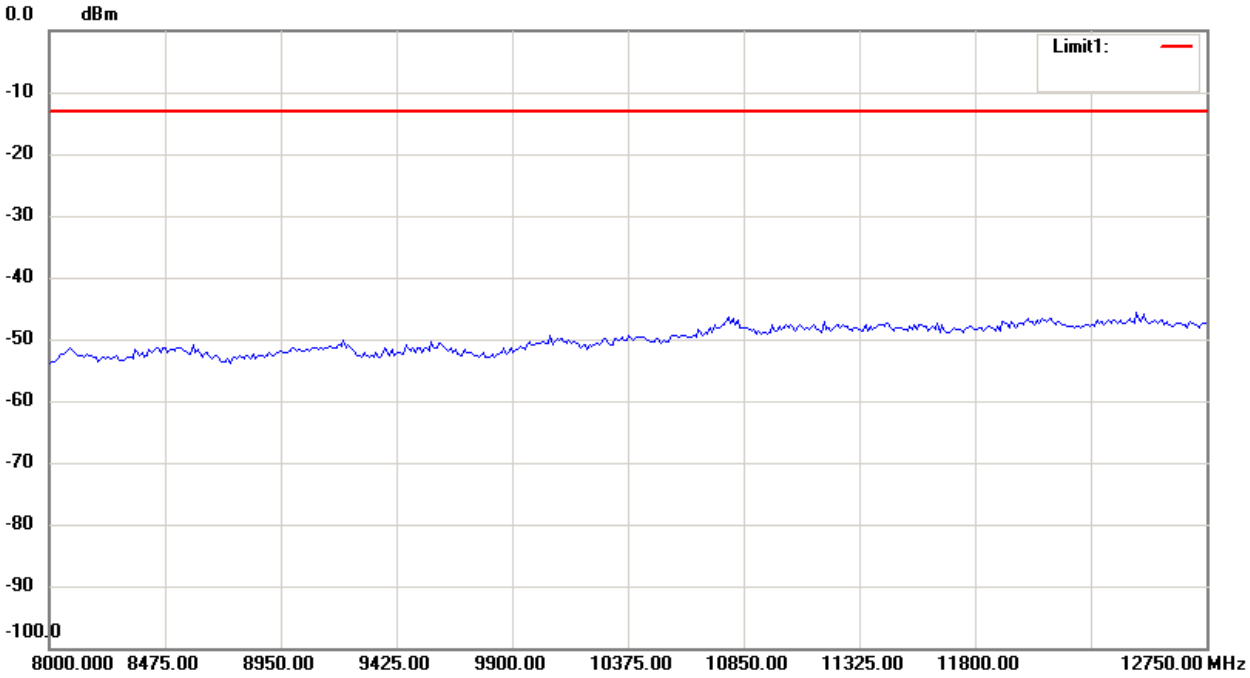
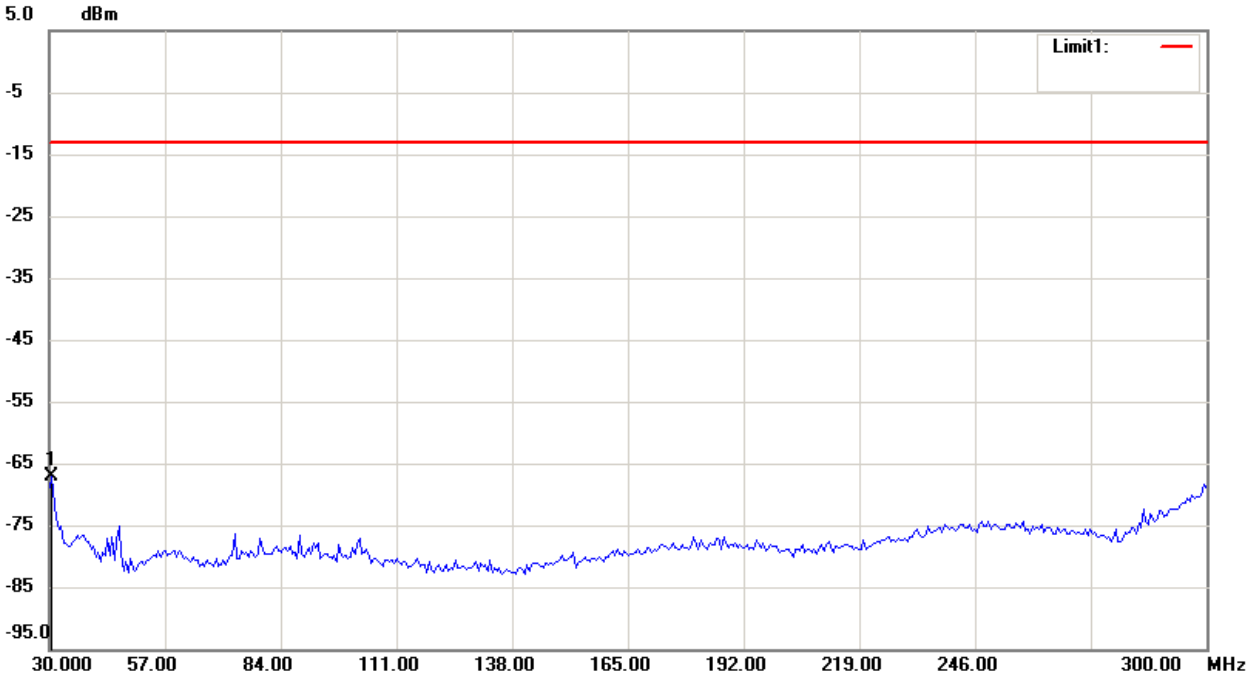


Antenna Polarization V



Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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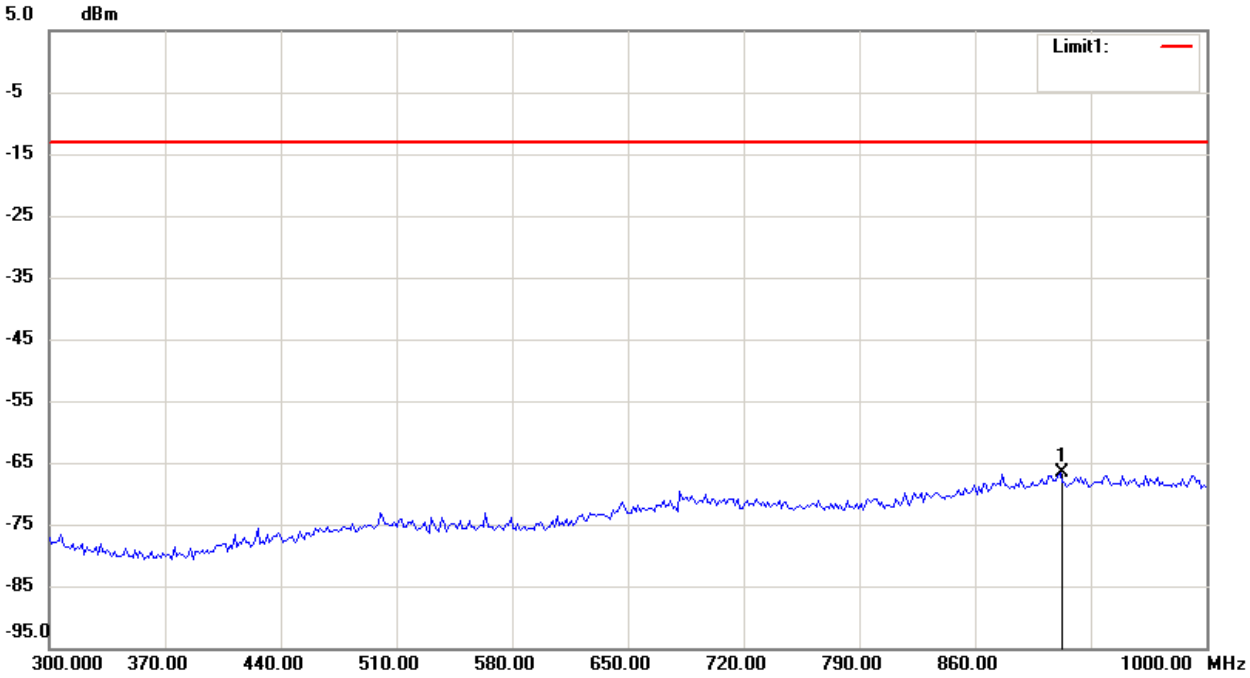

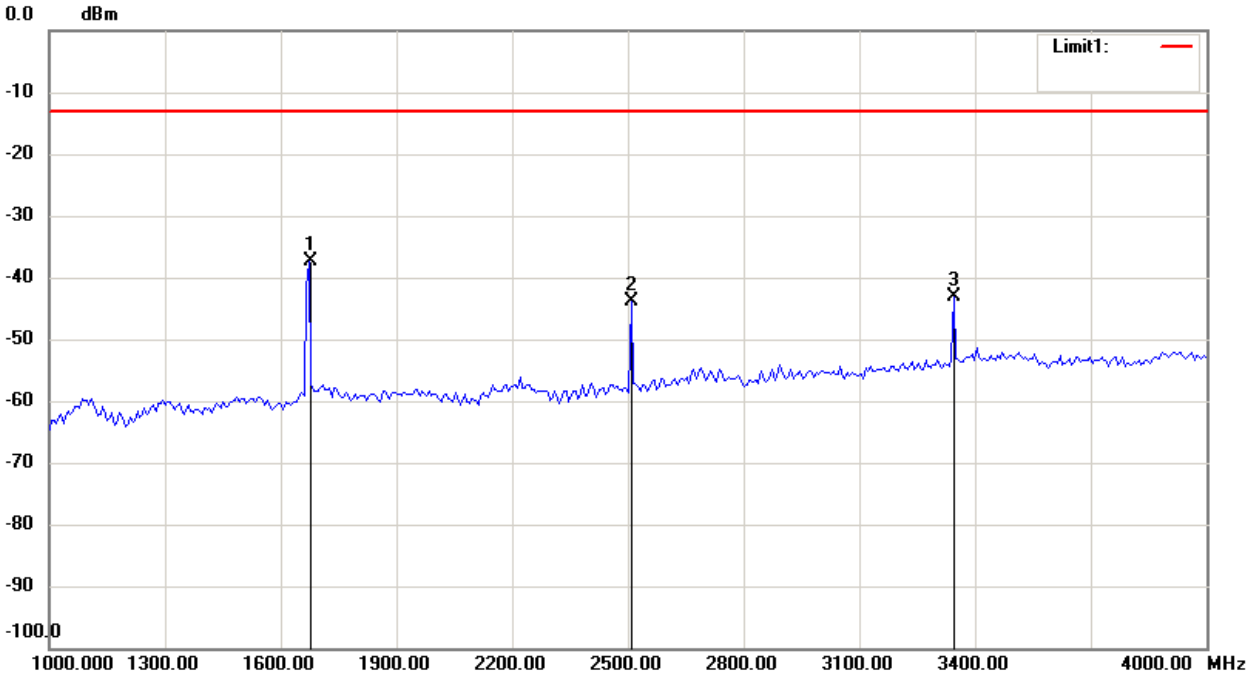

Note:

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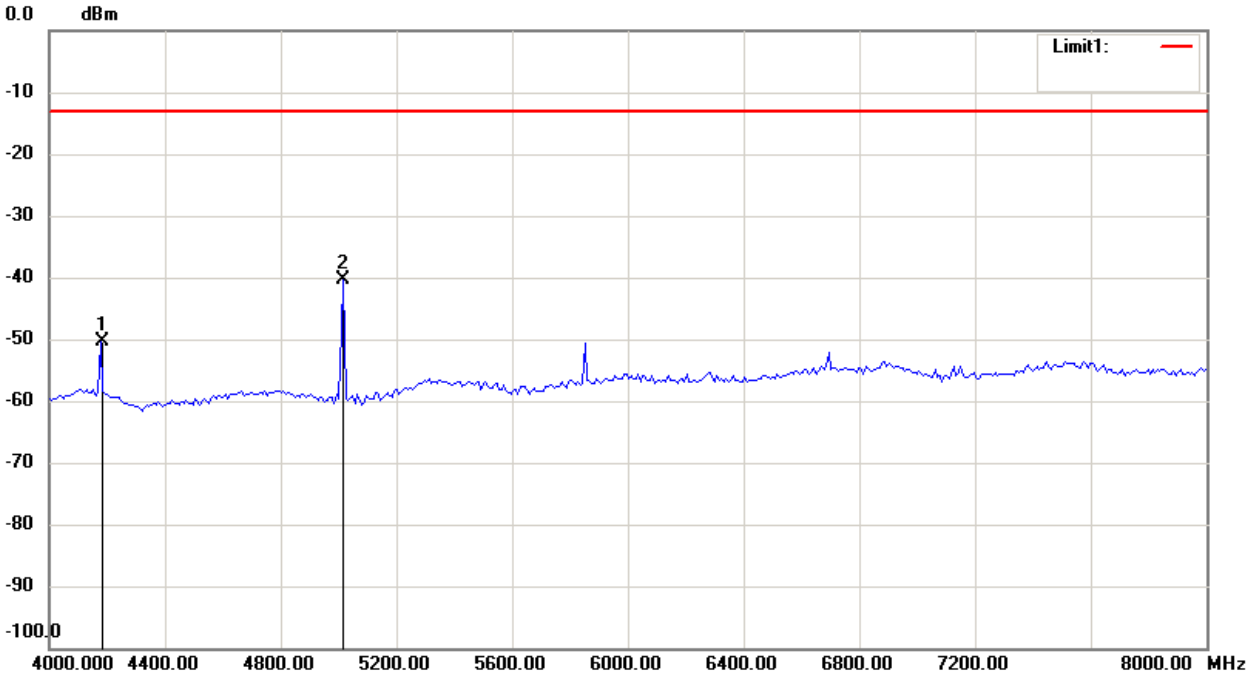

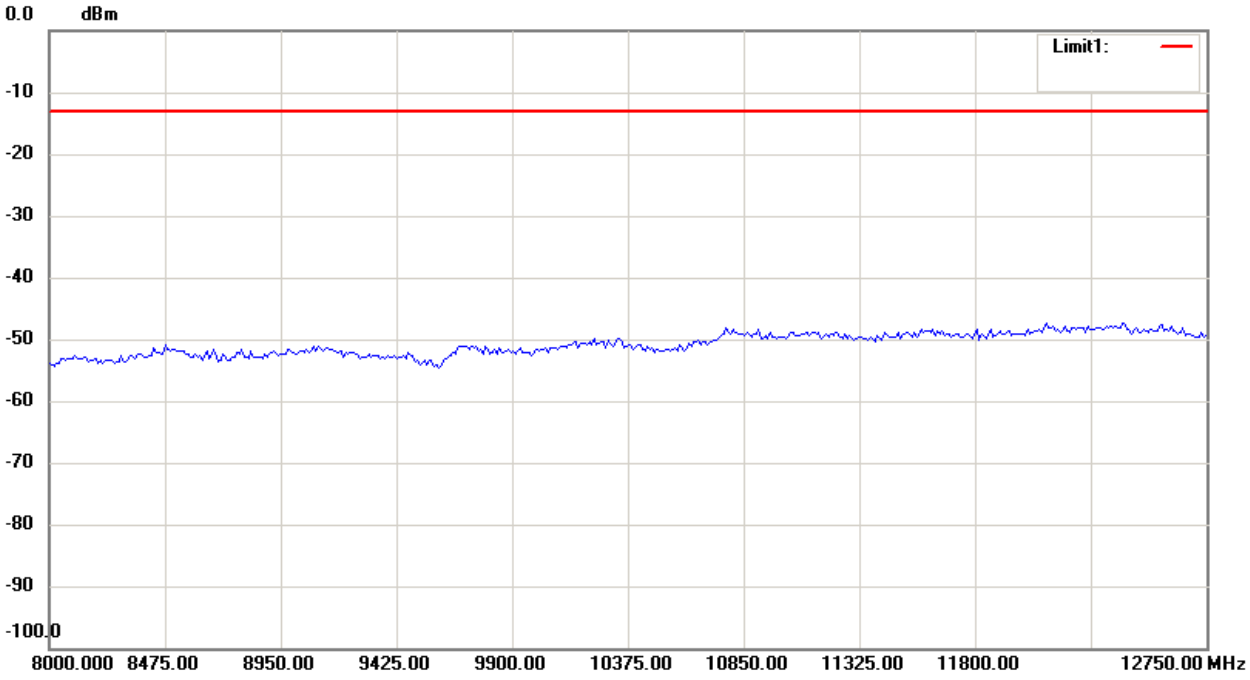

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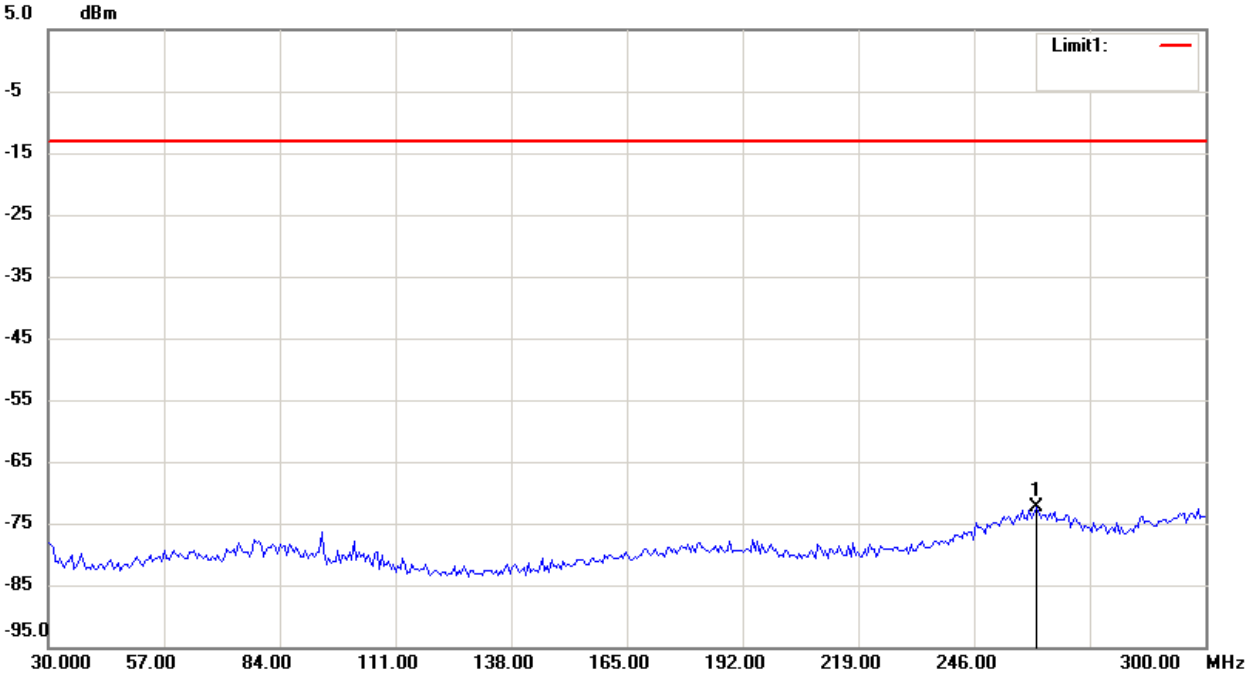
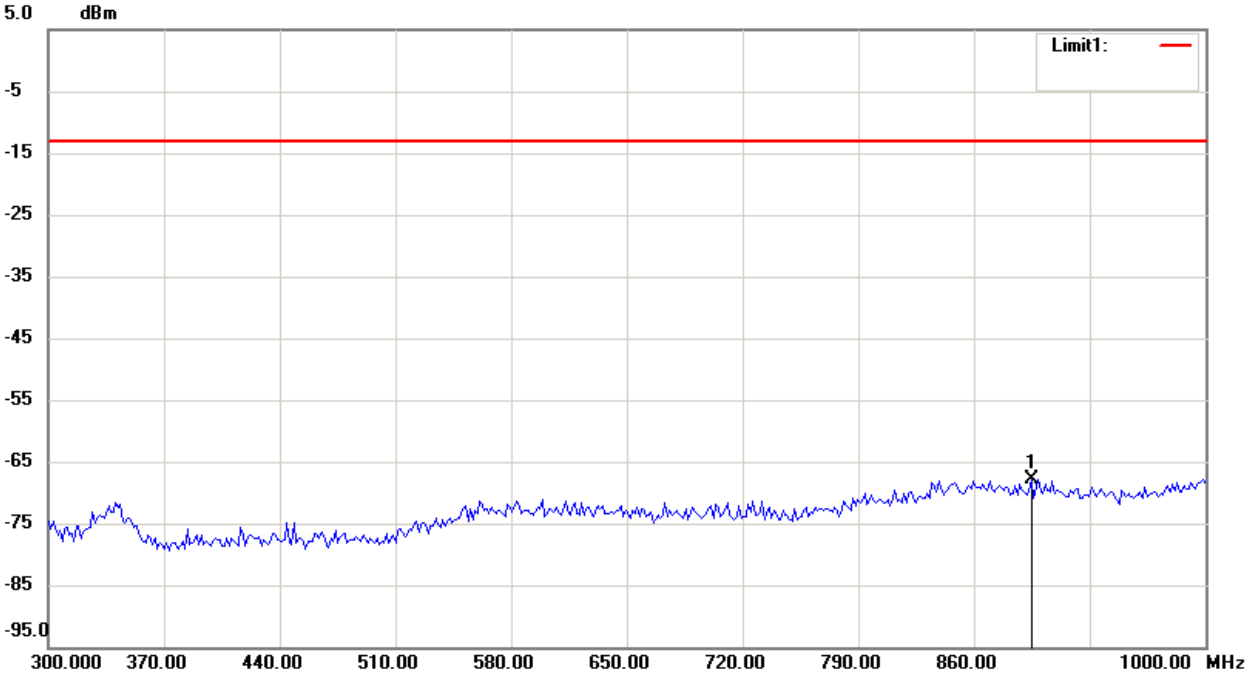
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

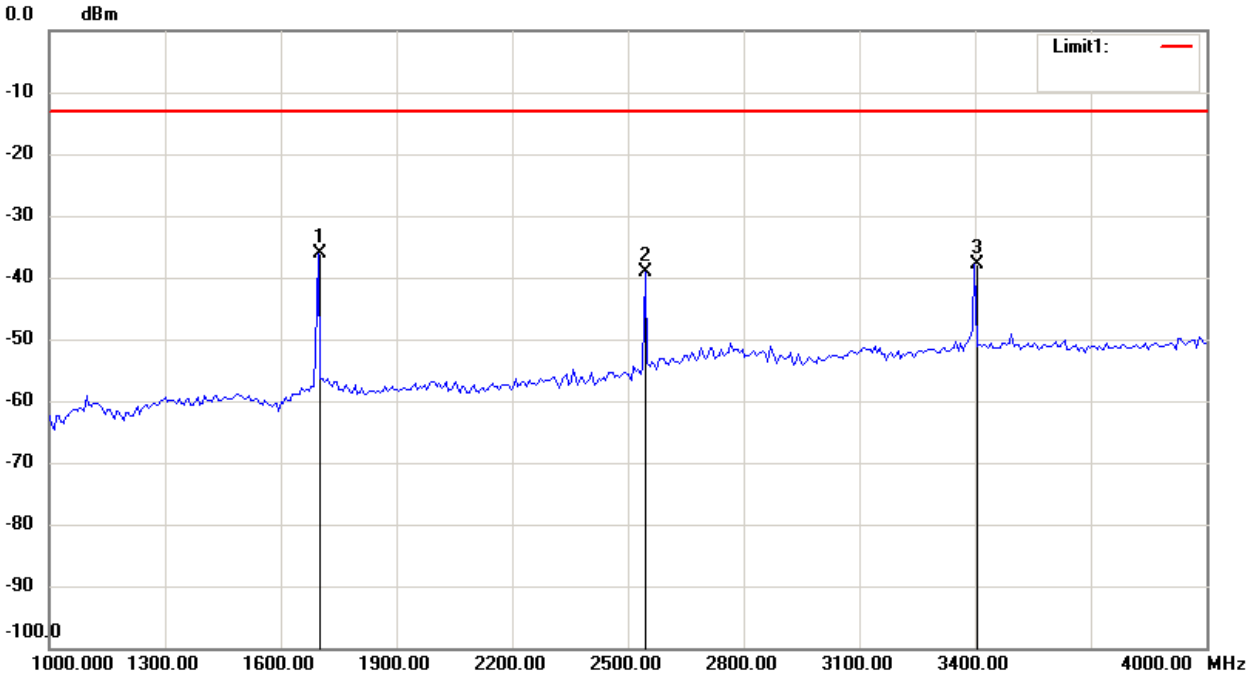
850 band_ CH 251_3.7 V
Antenna Polarization H

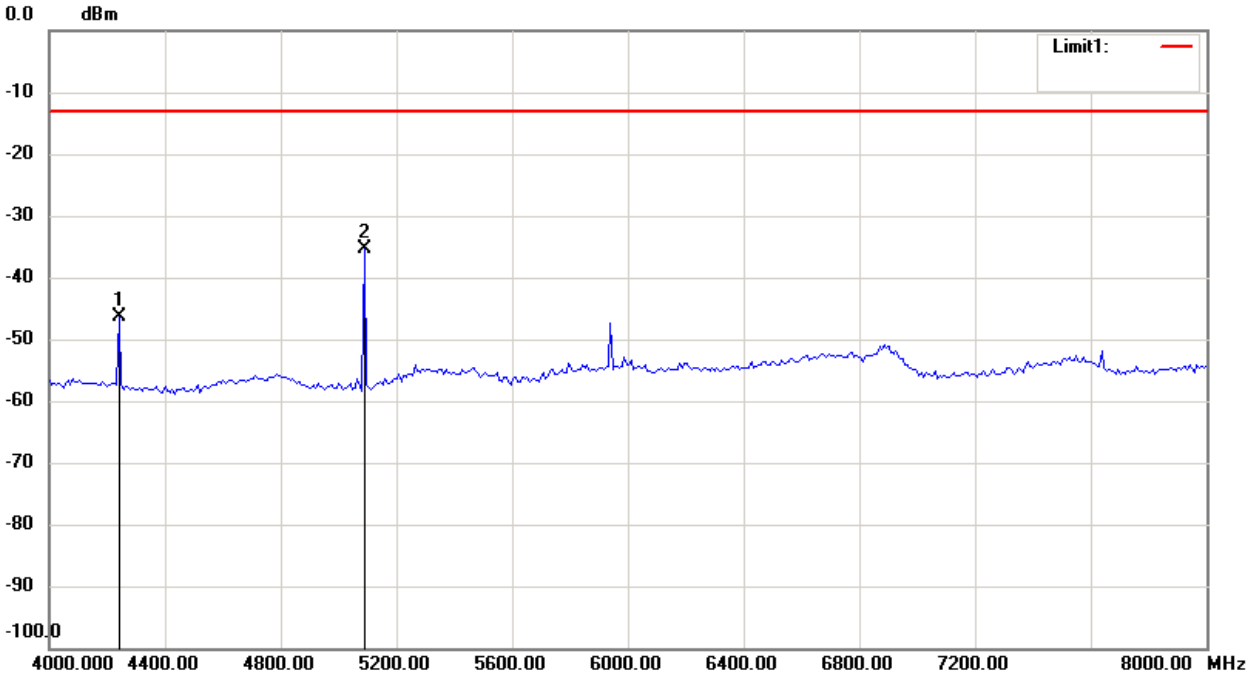




Note:

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





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.**
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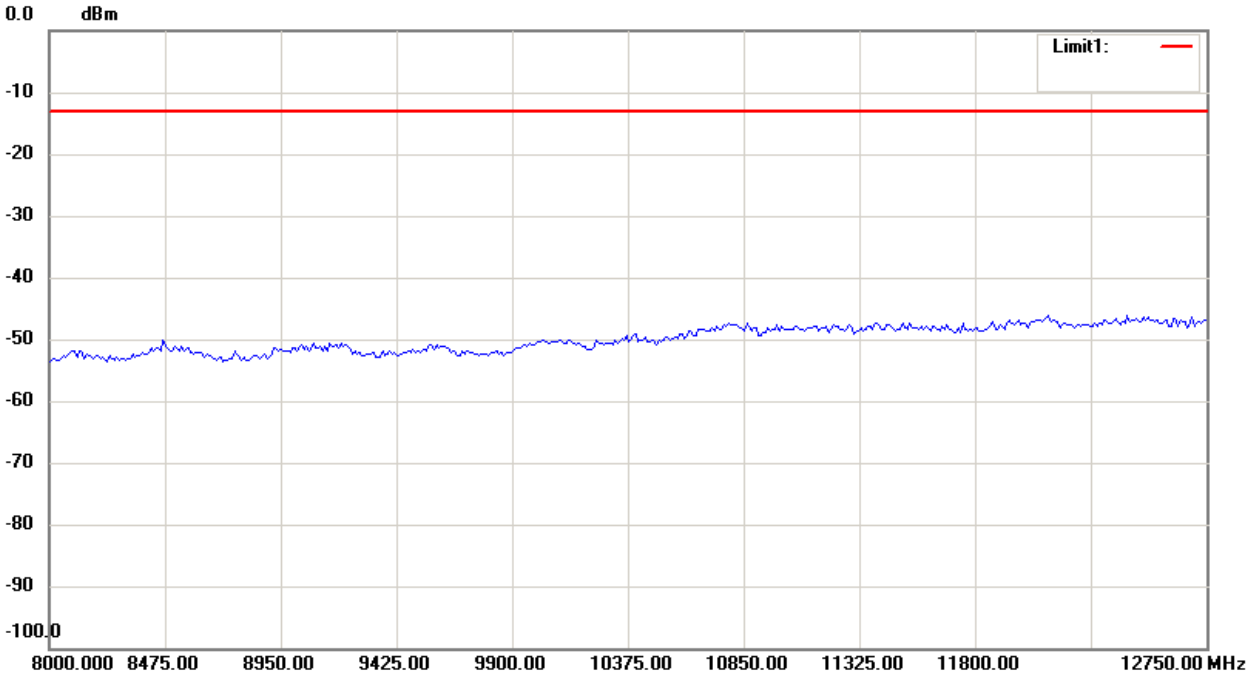
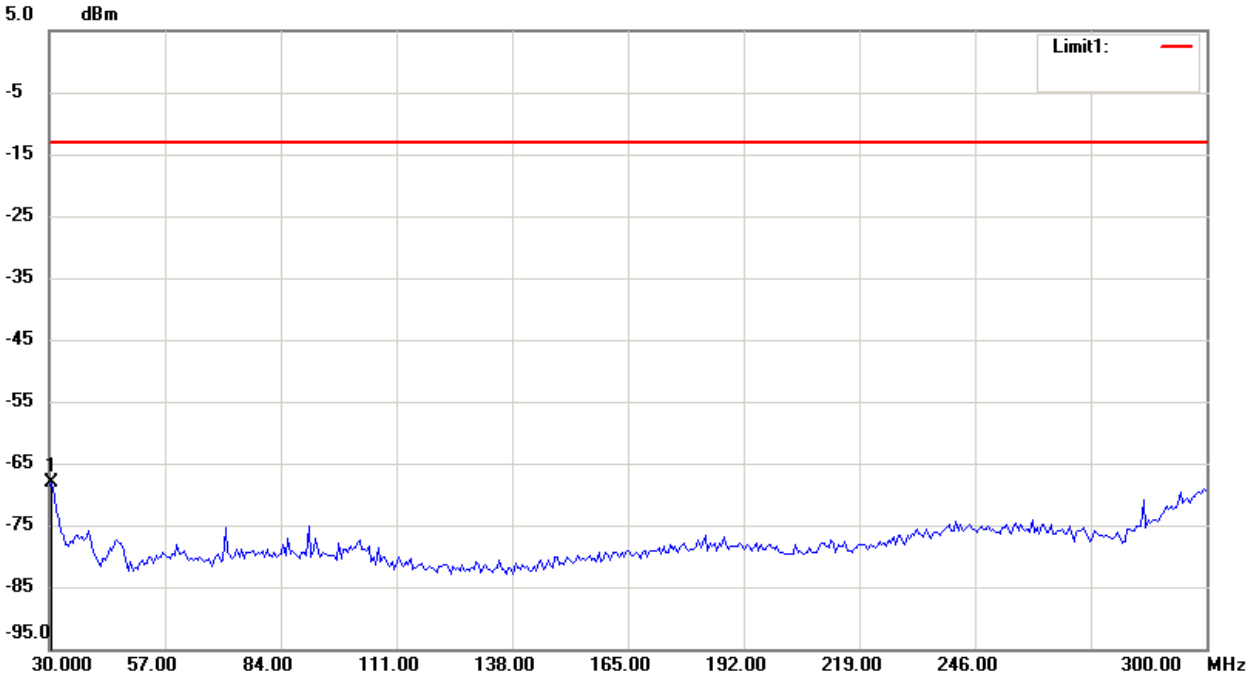
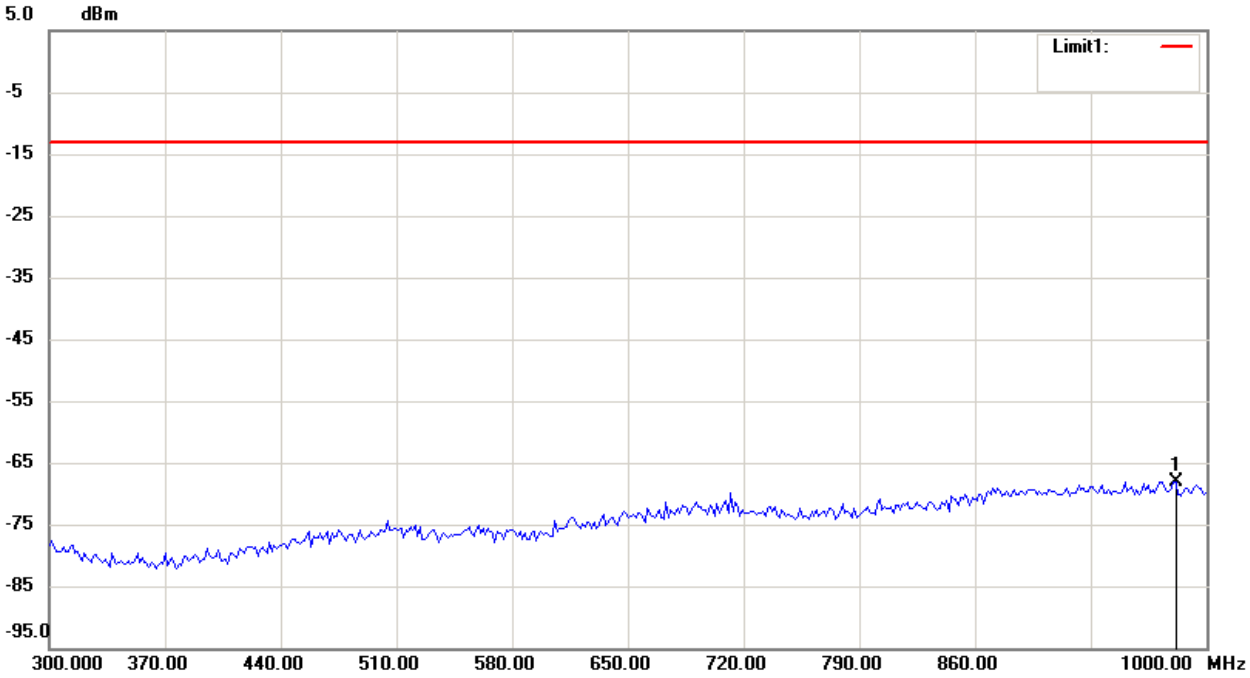


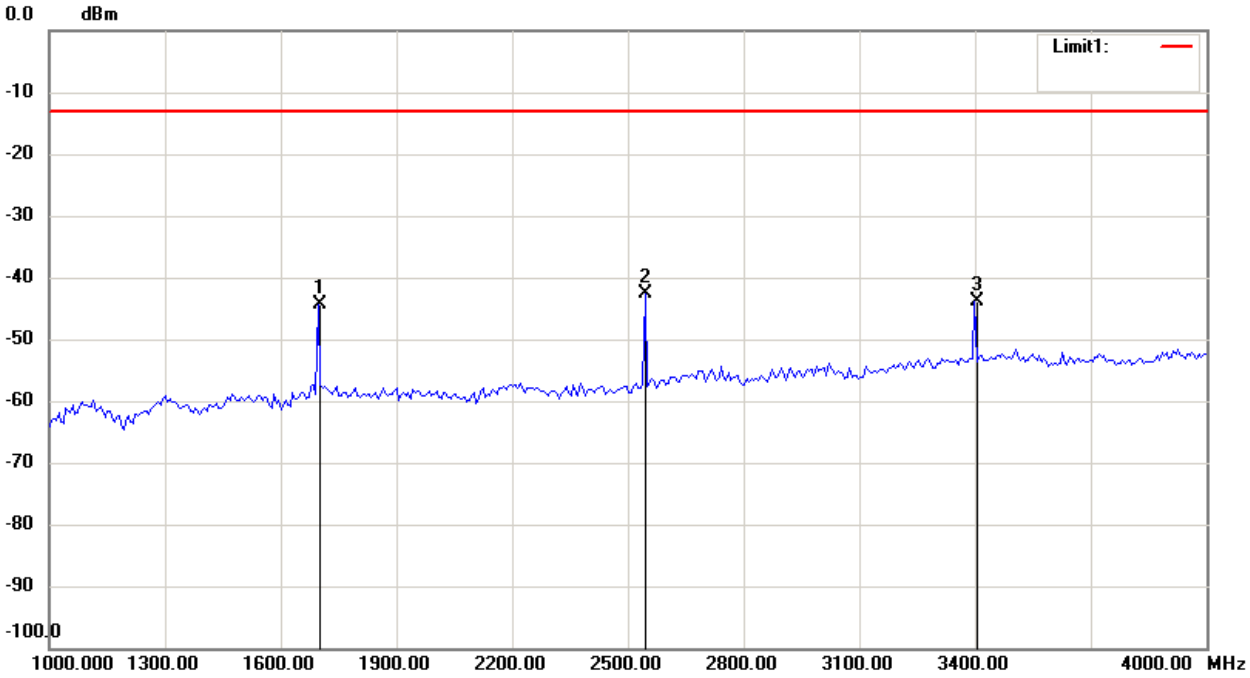
Antenna Polarization V



Note:

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





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.**
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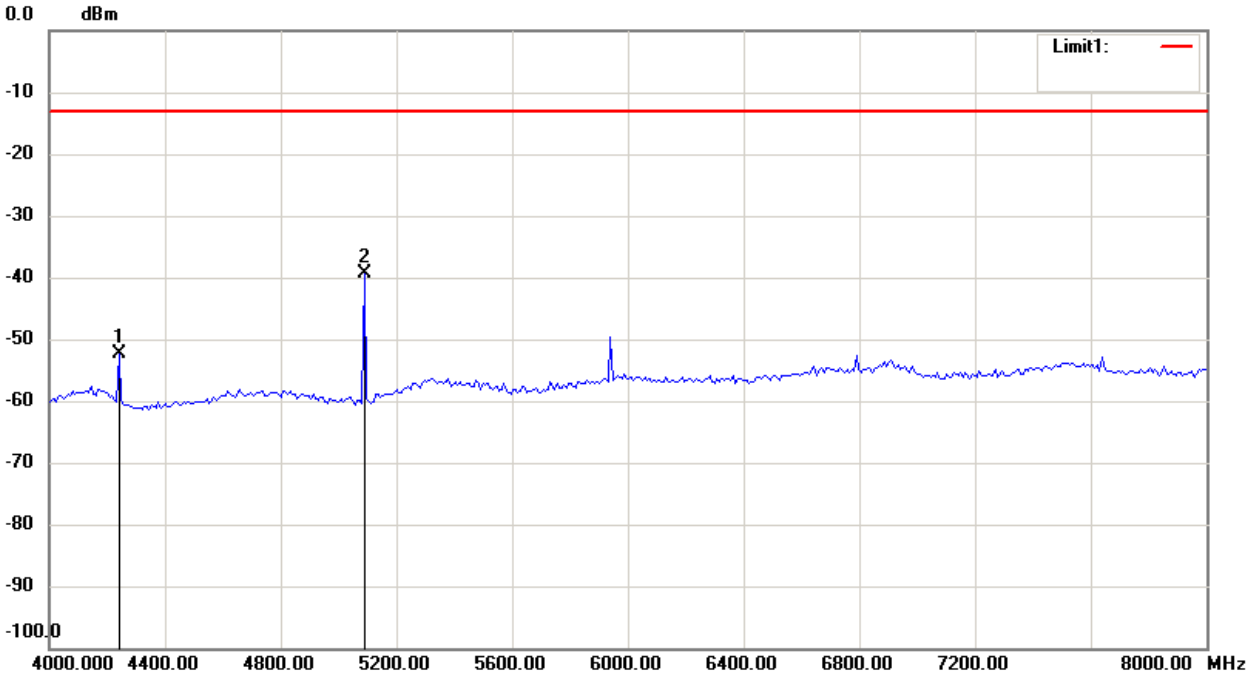
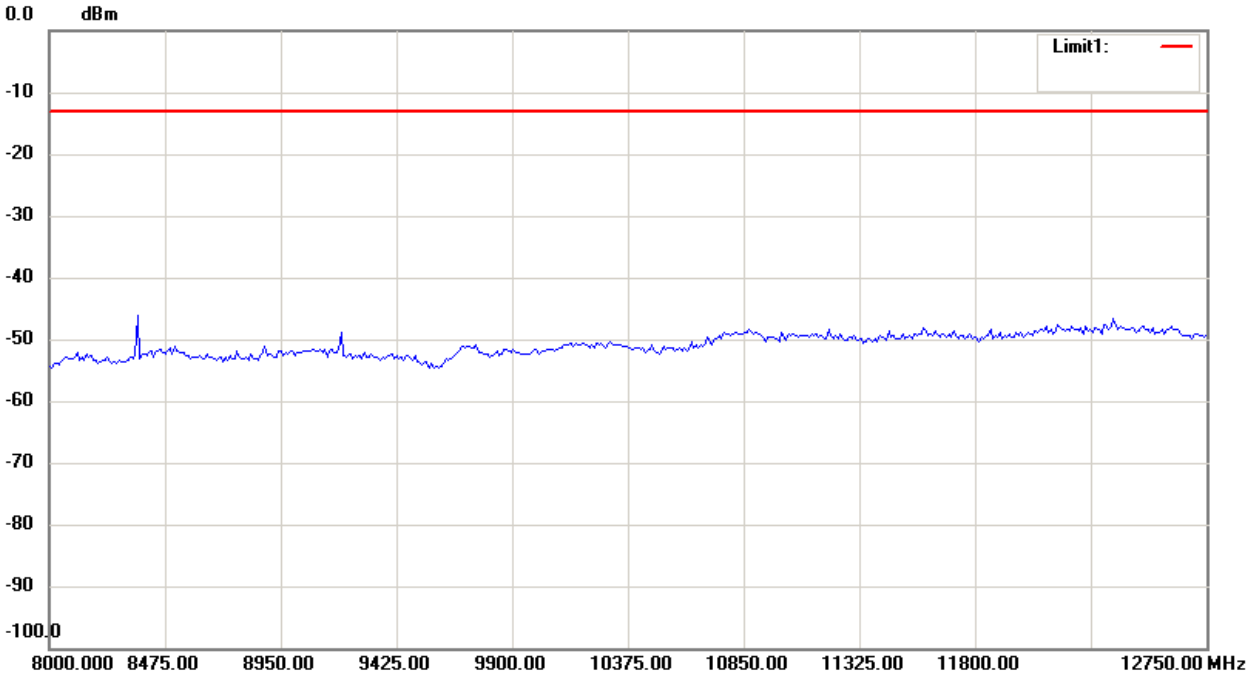
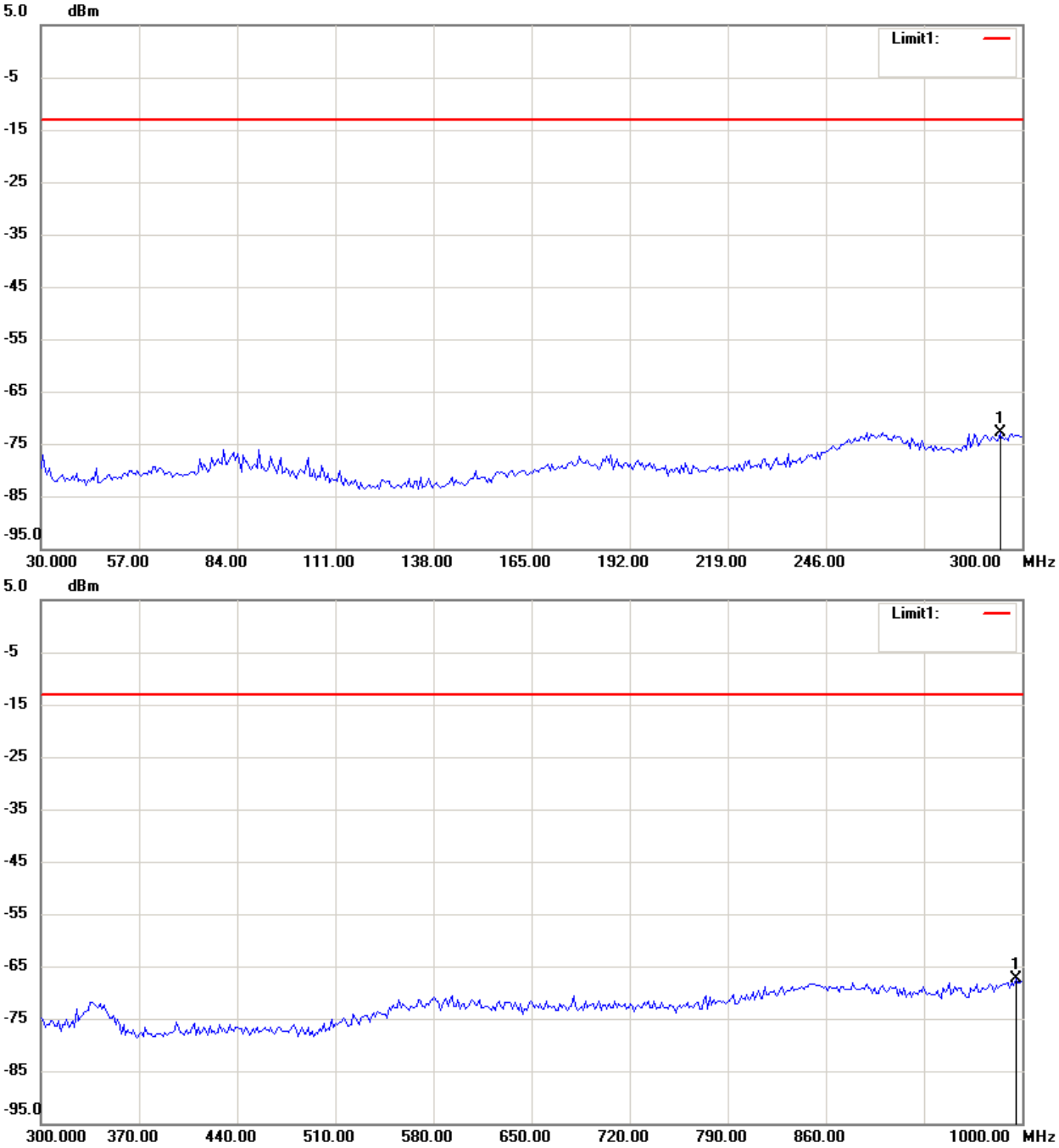




Note:

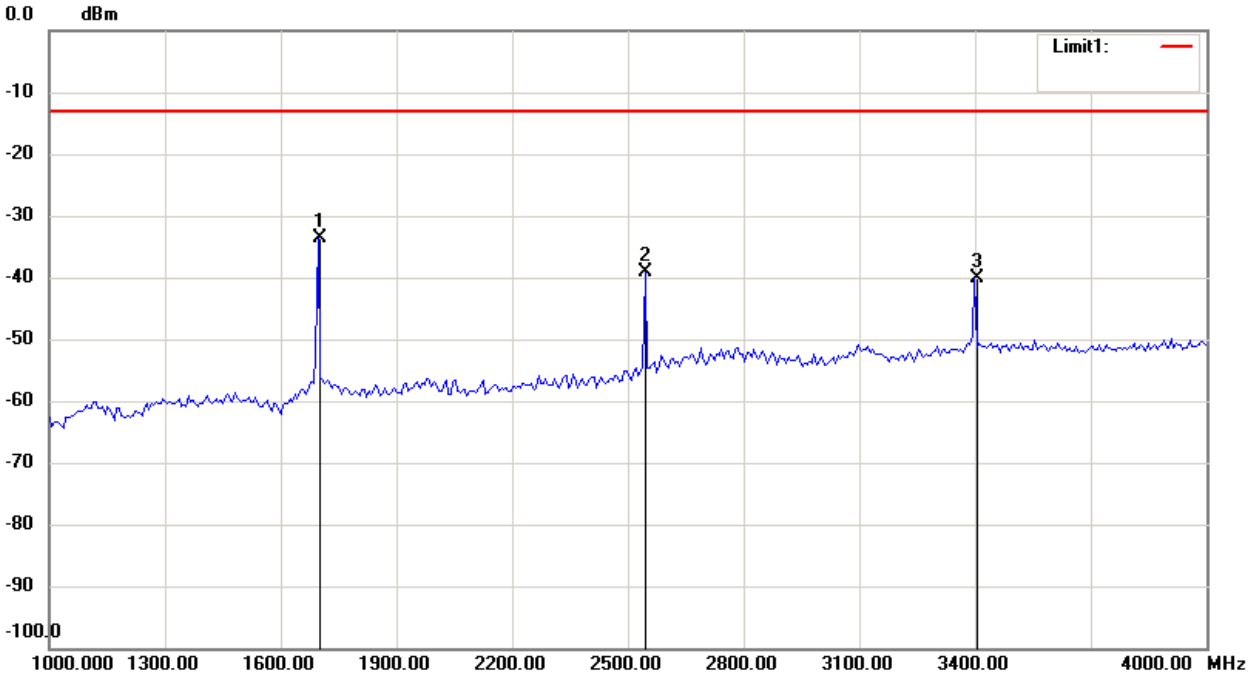
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

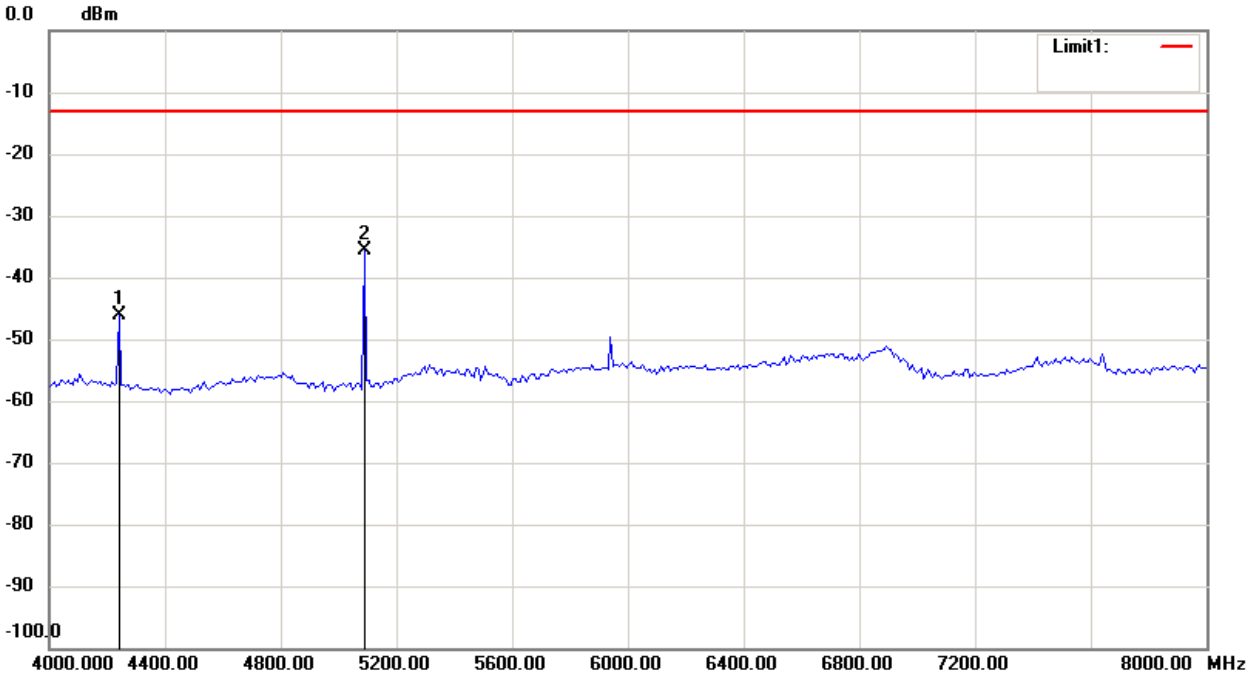
850 band_ CH 251_3.6 V
Antenna Polarization H



Note:

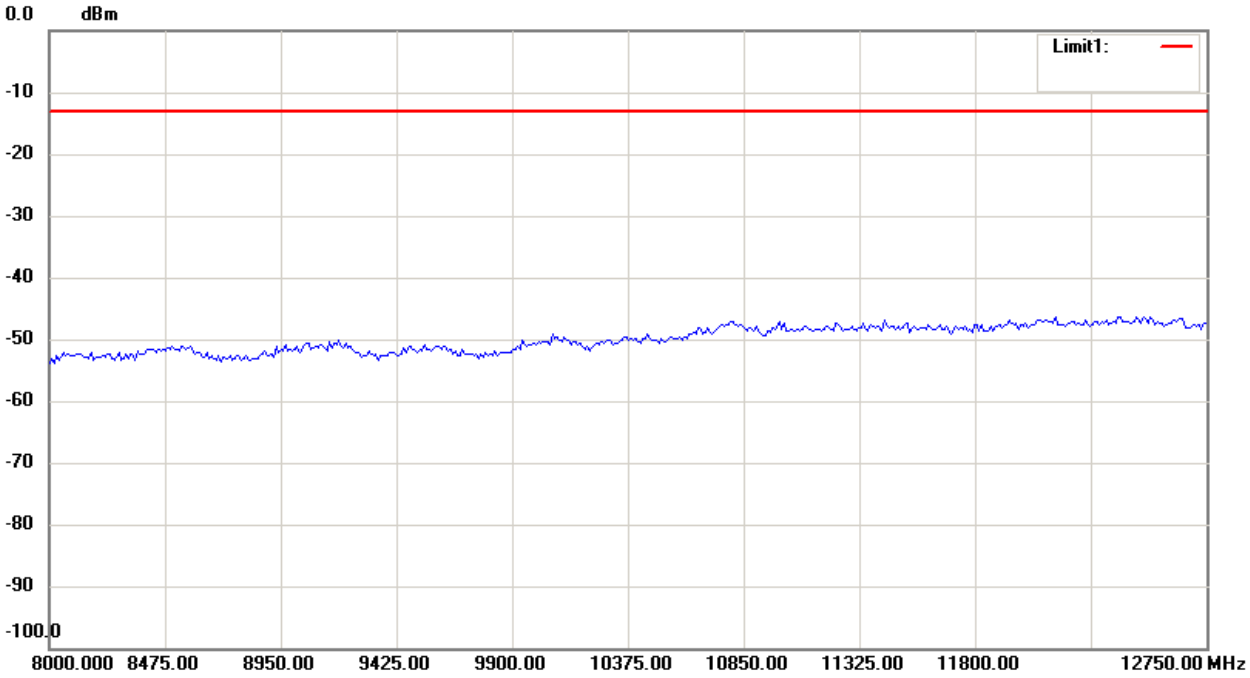
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



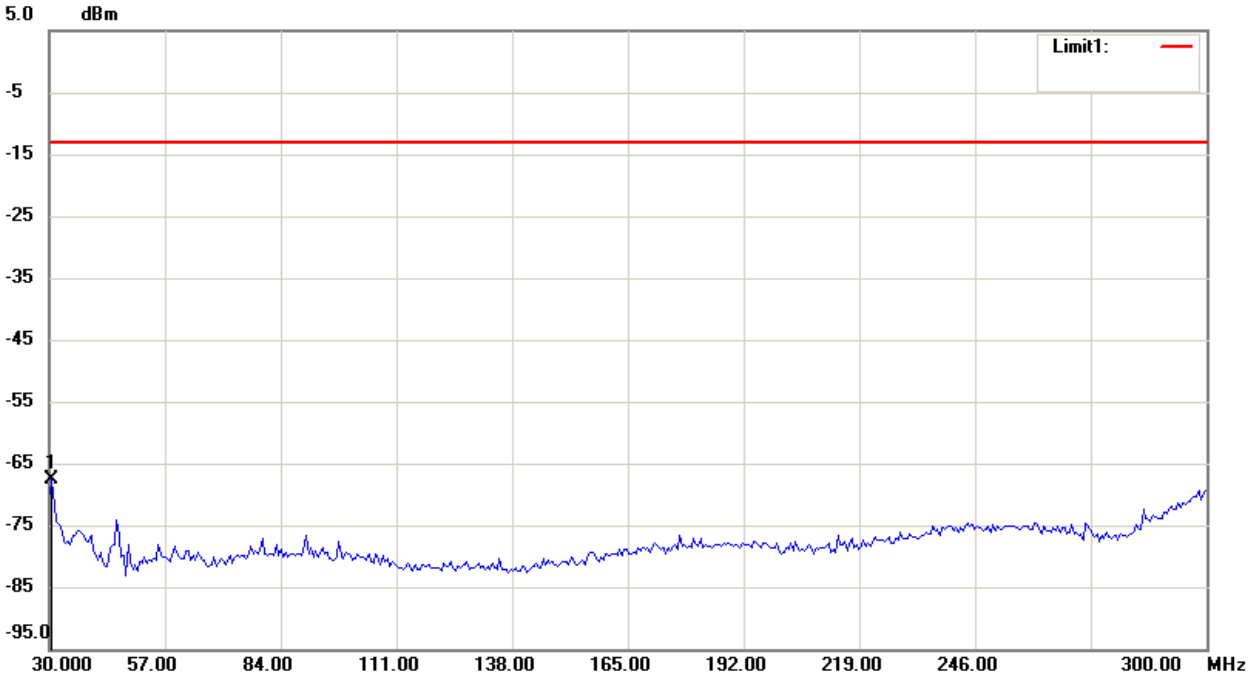


Note:

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.**

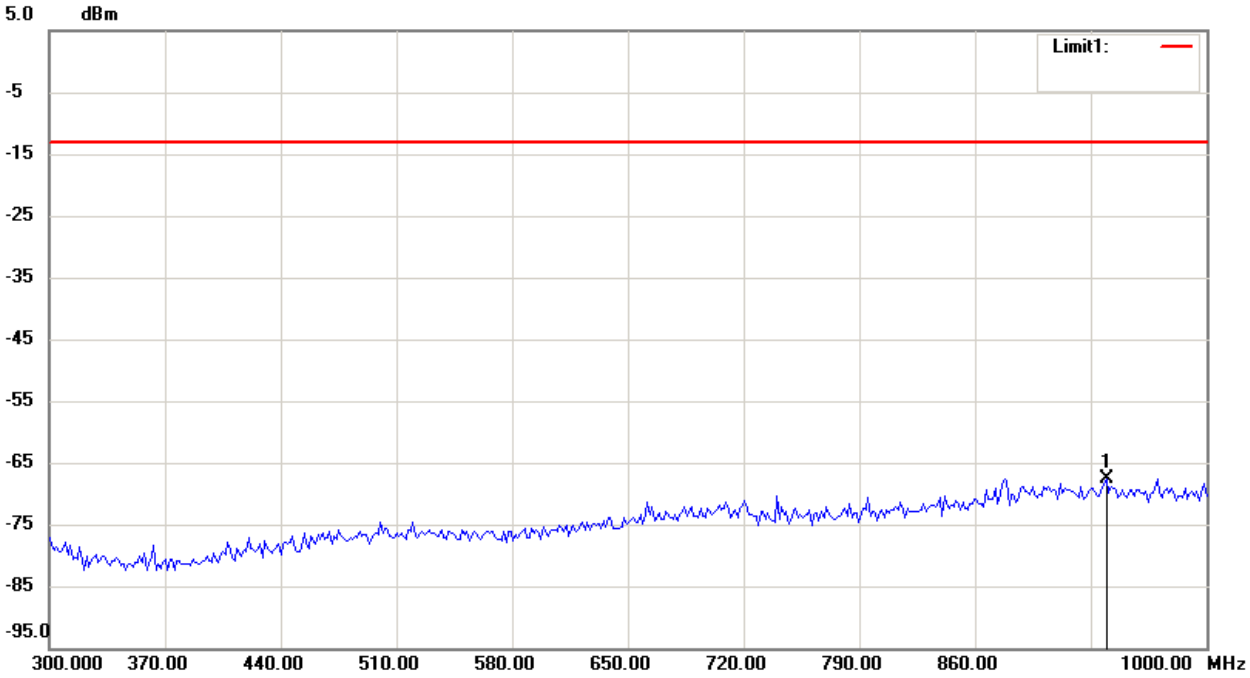


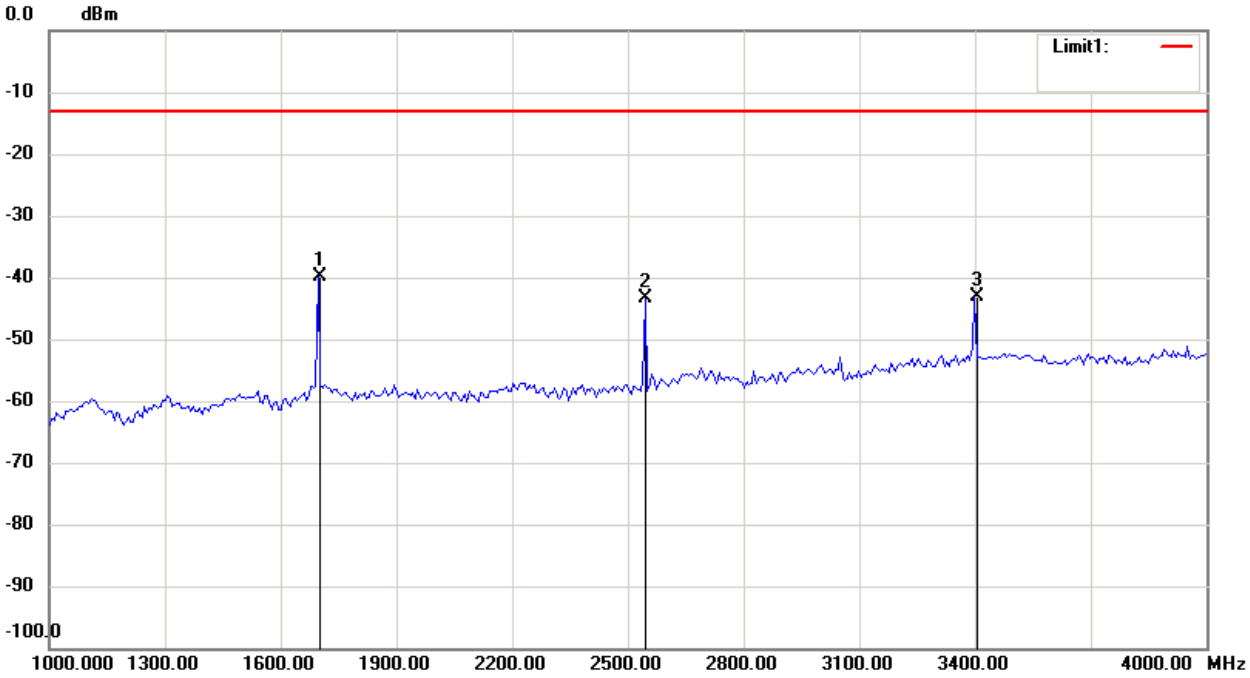
Antenna Polarization V



Note:

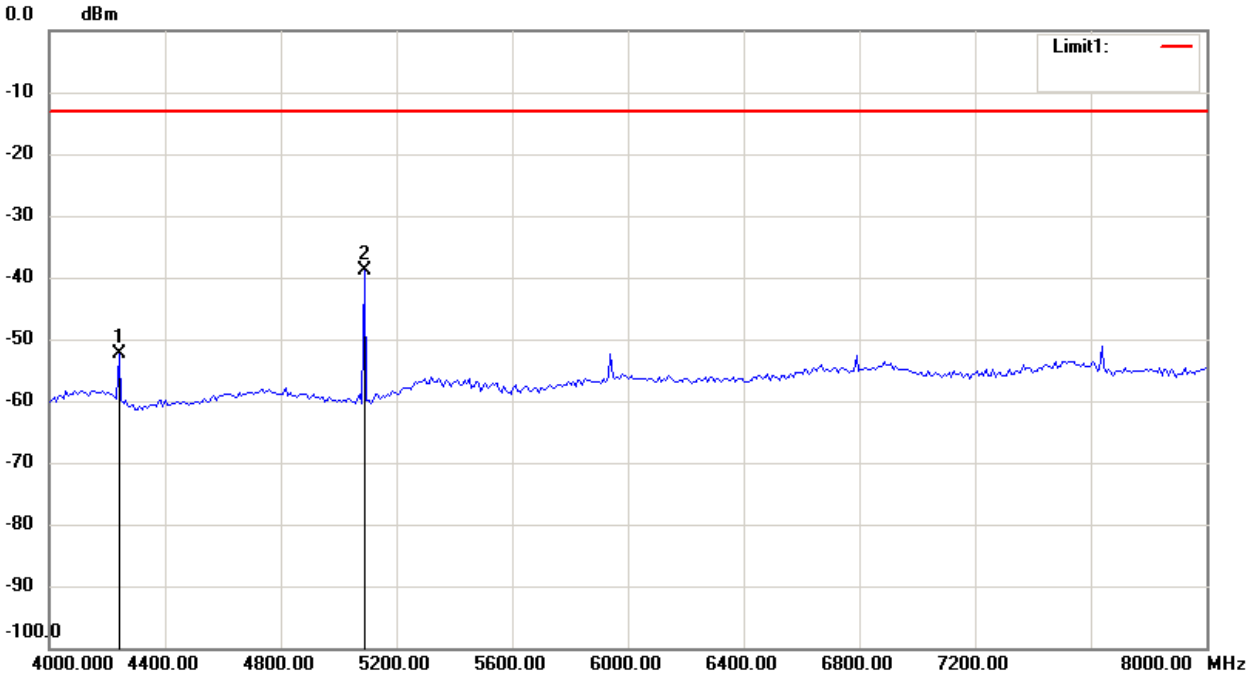
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

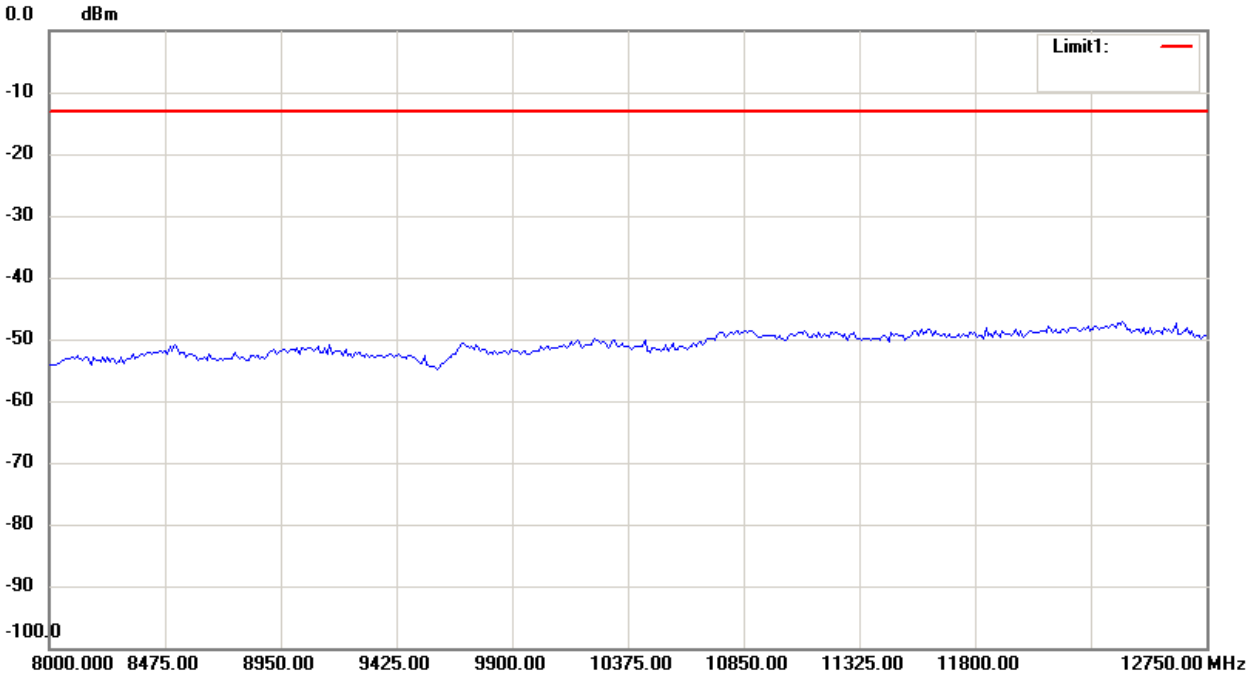




Note:

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.**

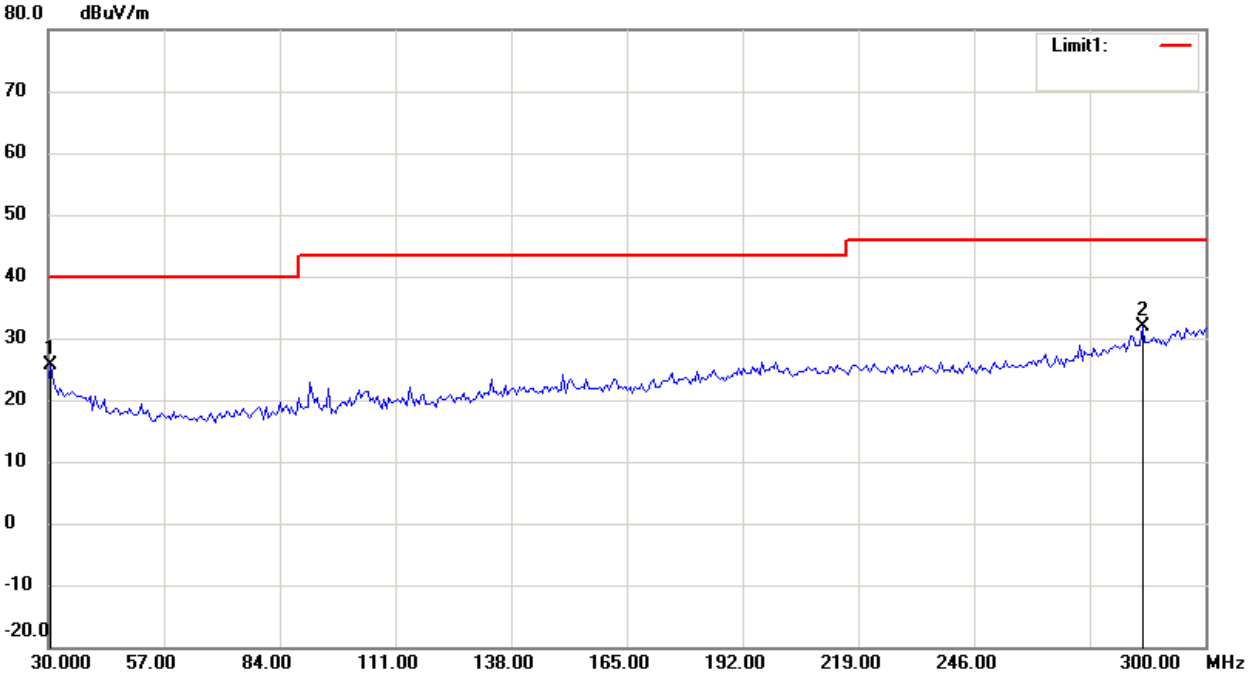


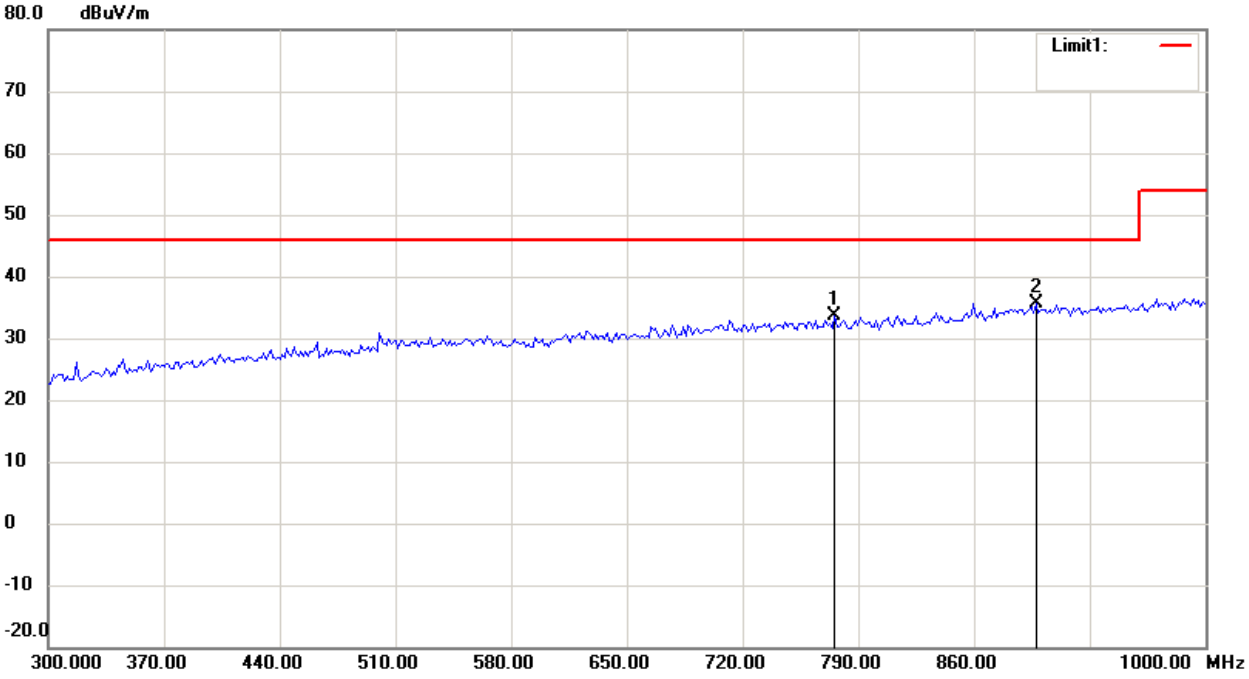


Note:

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.**

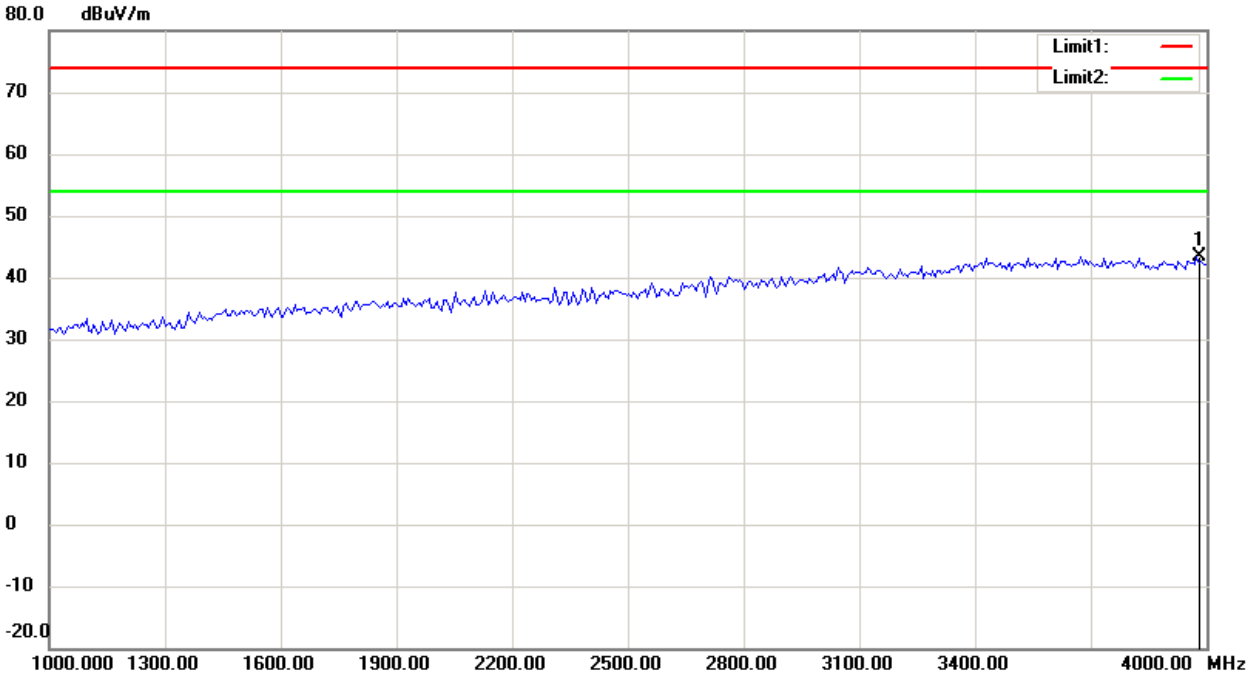
850 band_Idle Mode_3.7V
Antenna Polarization H

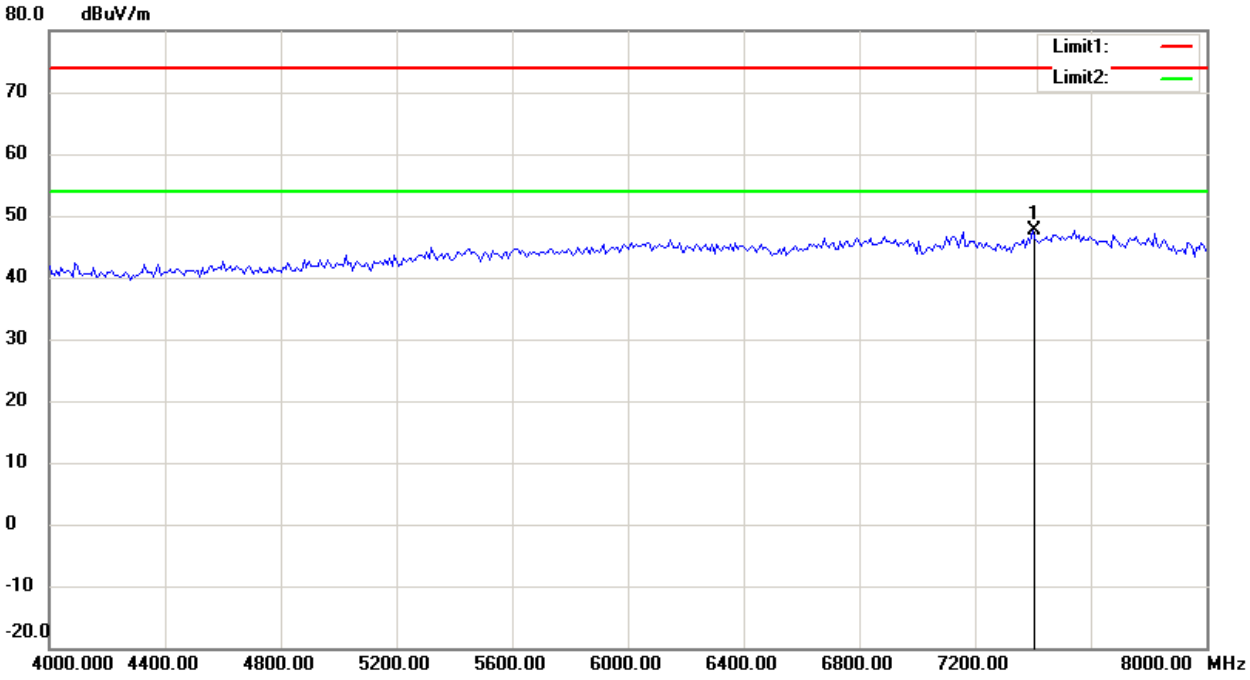




Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

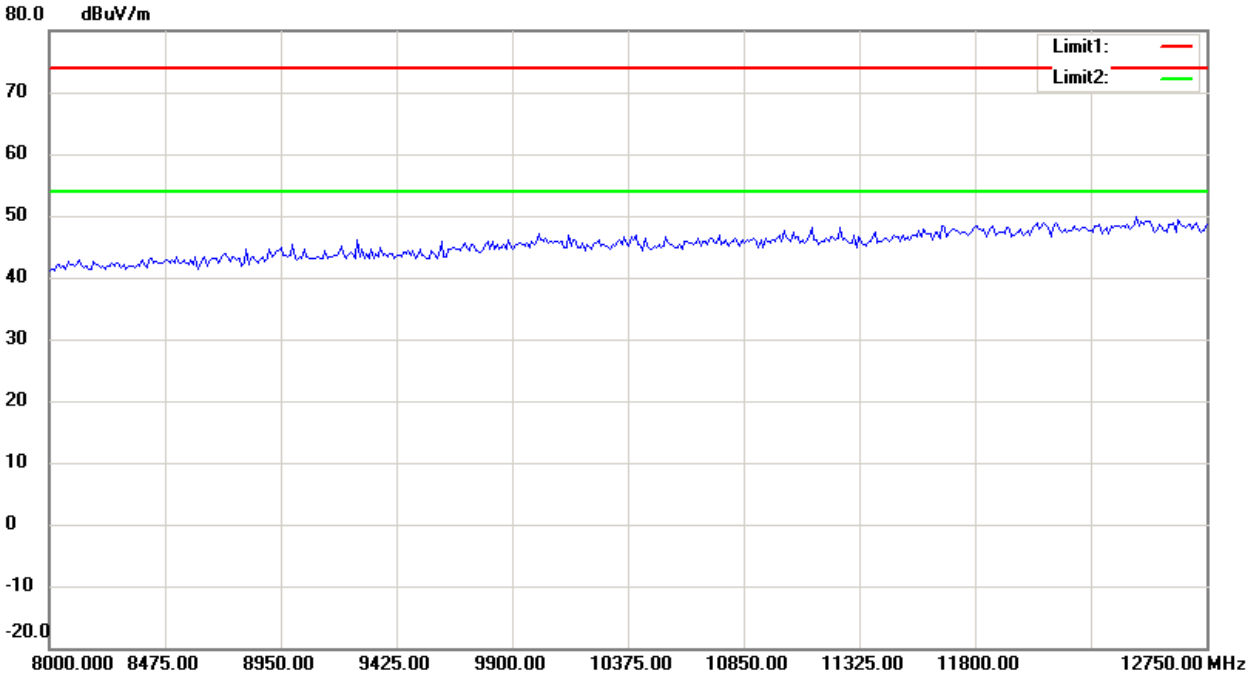
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



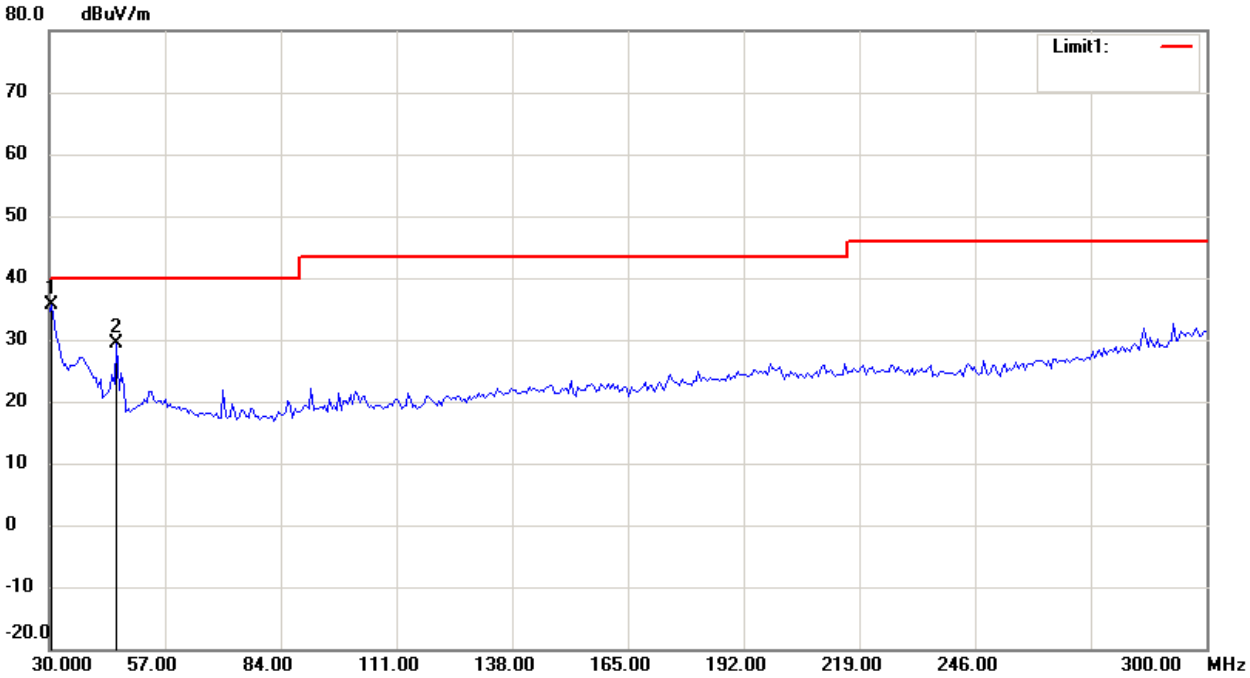


Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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.**



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.**
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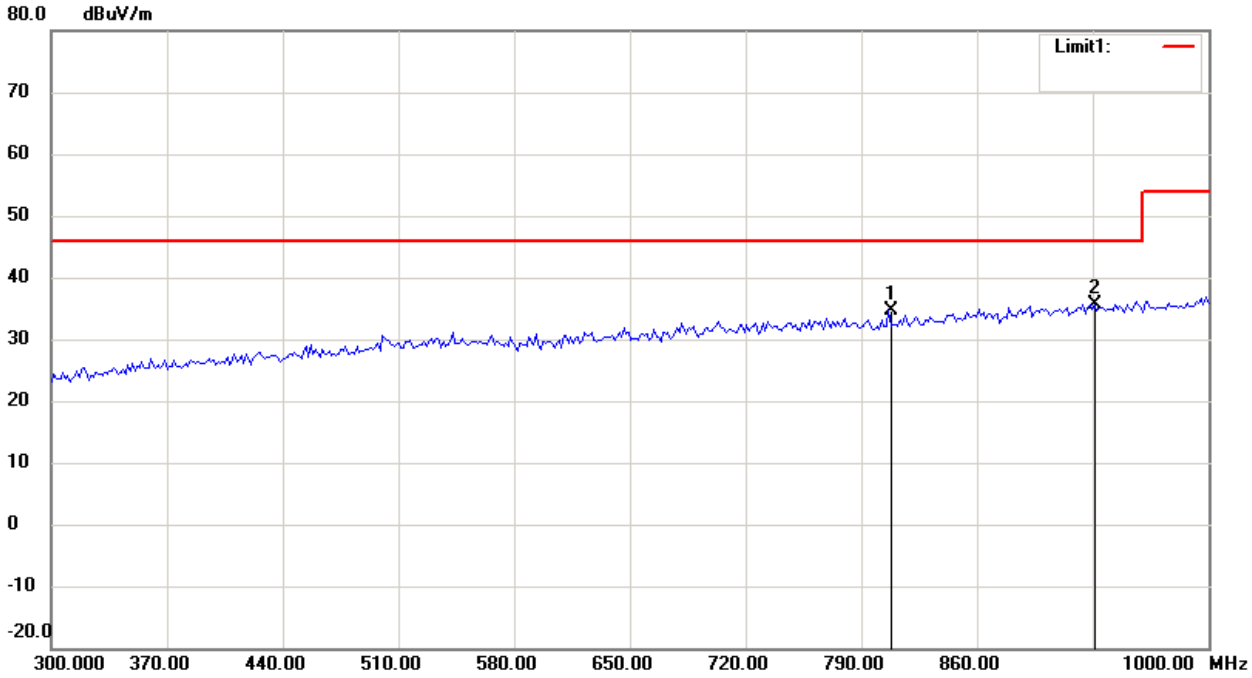

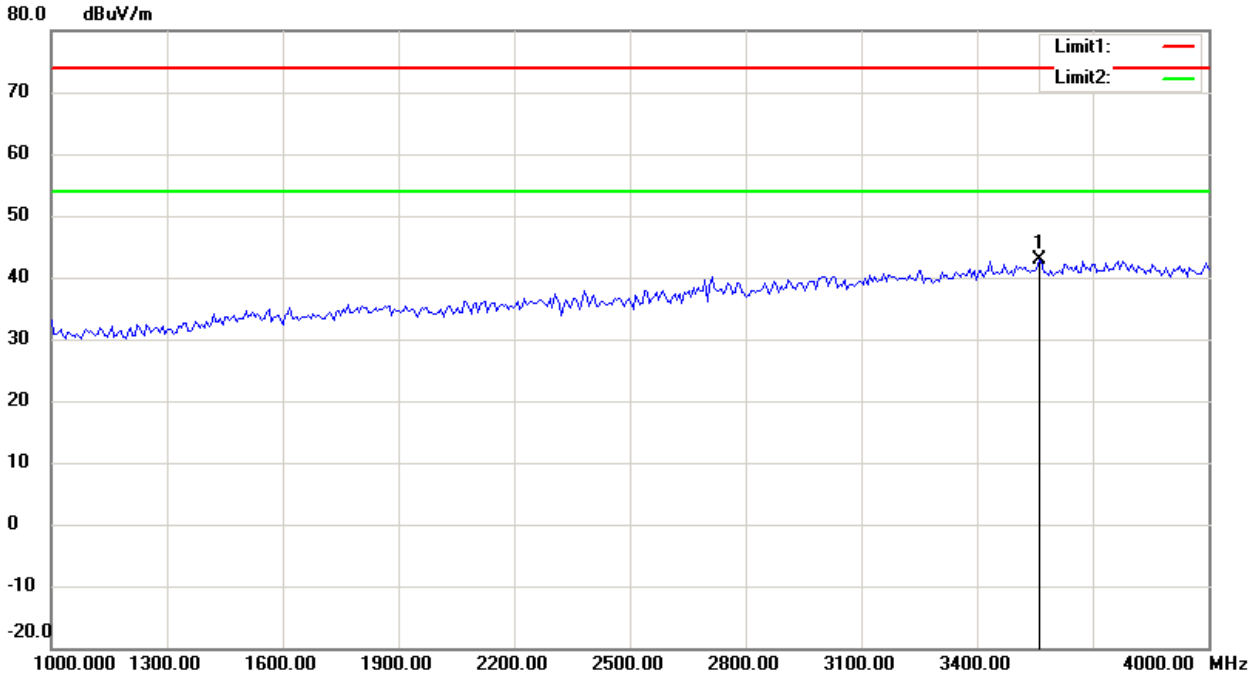

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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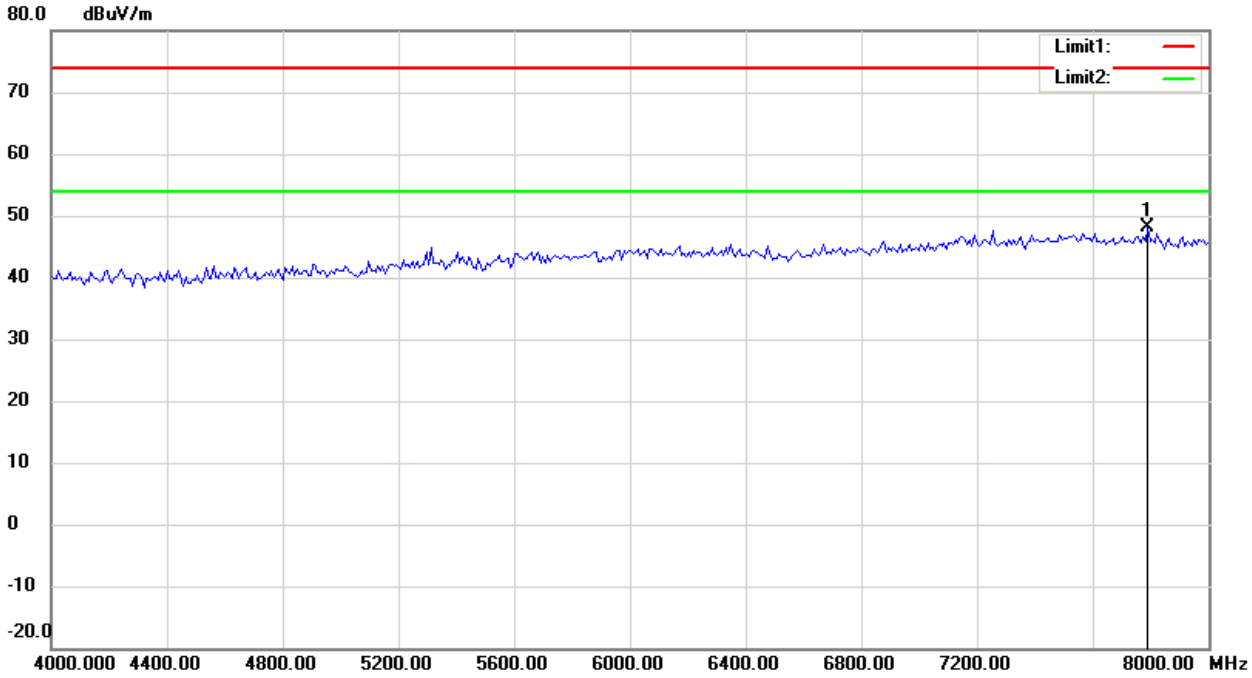

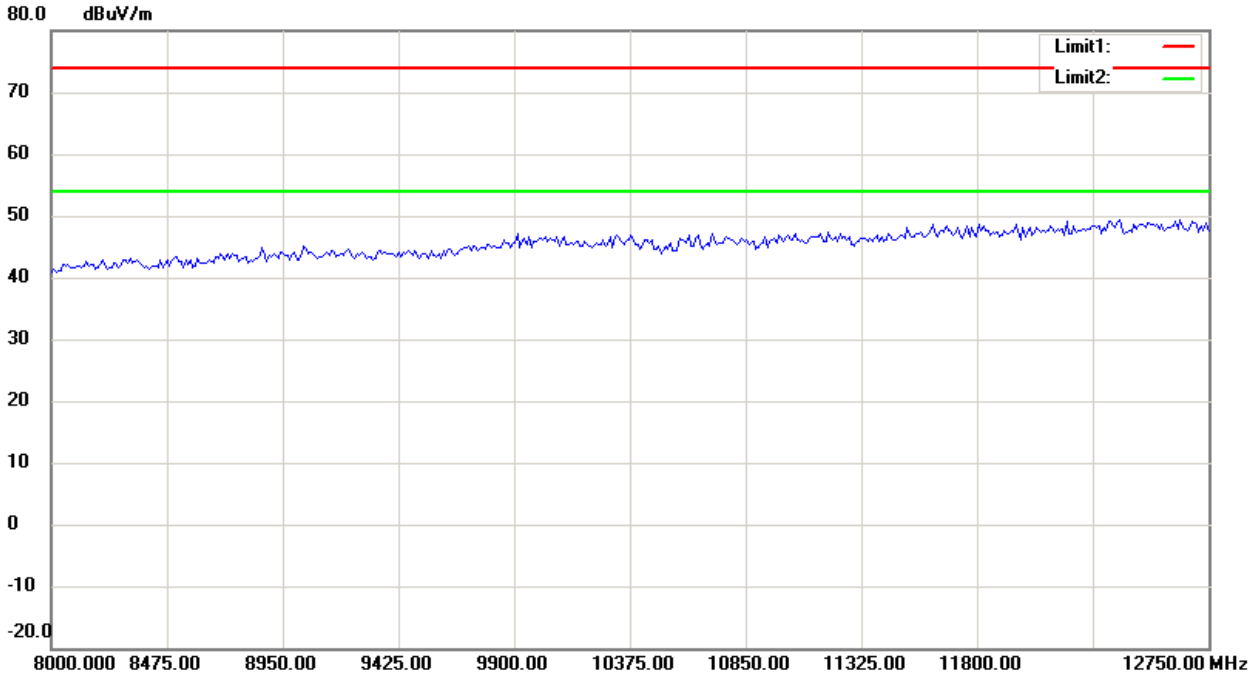

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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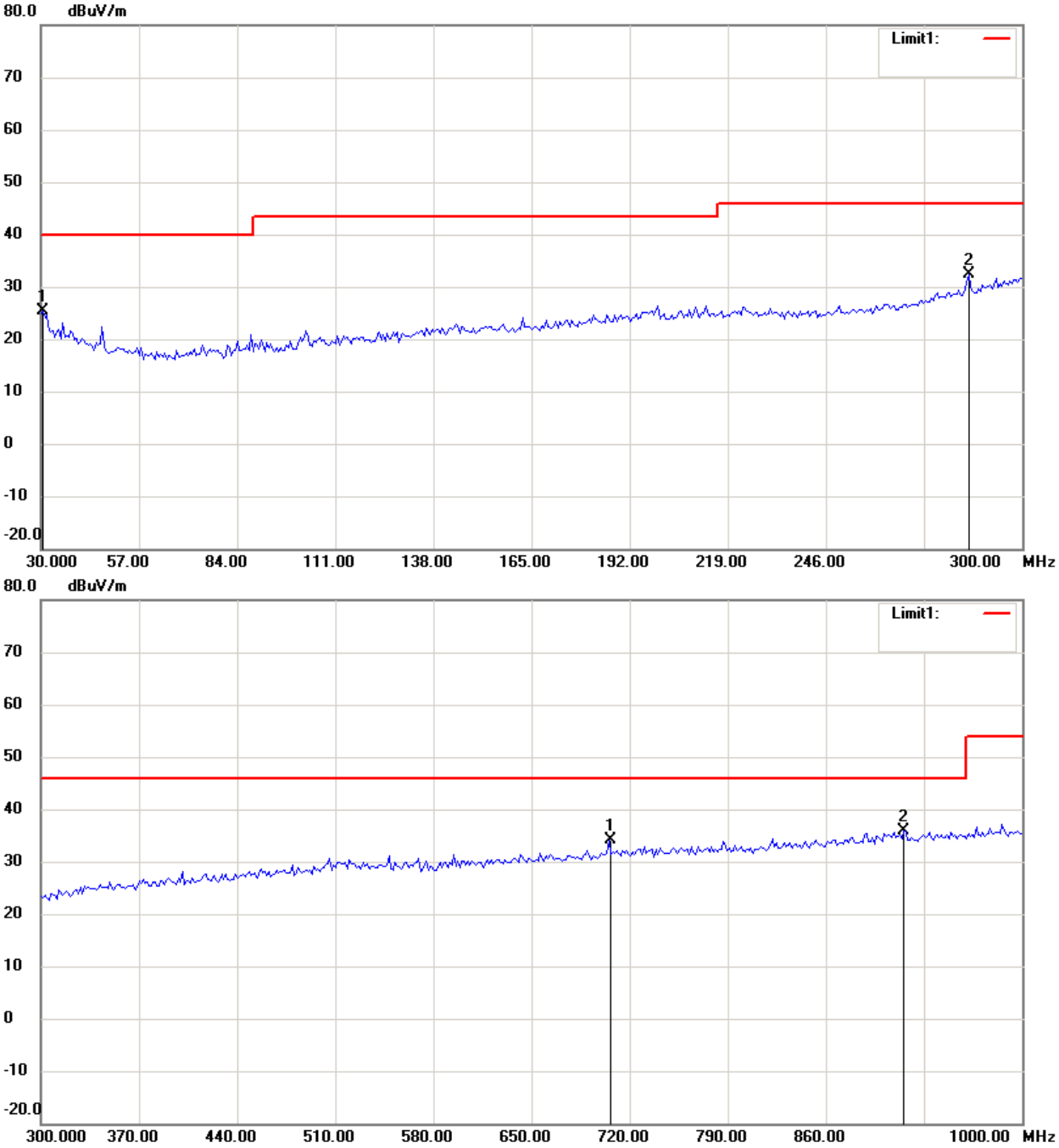
850 band_Idle Mode_3.6V
Antenna Polarization H



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.**
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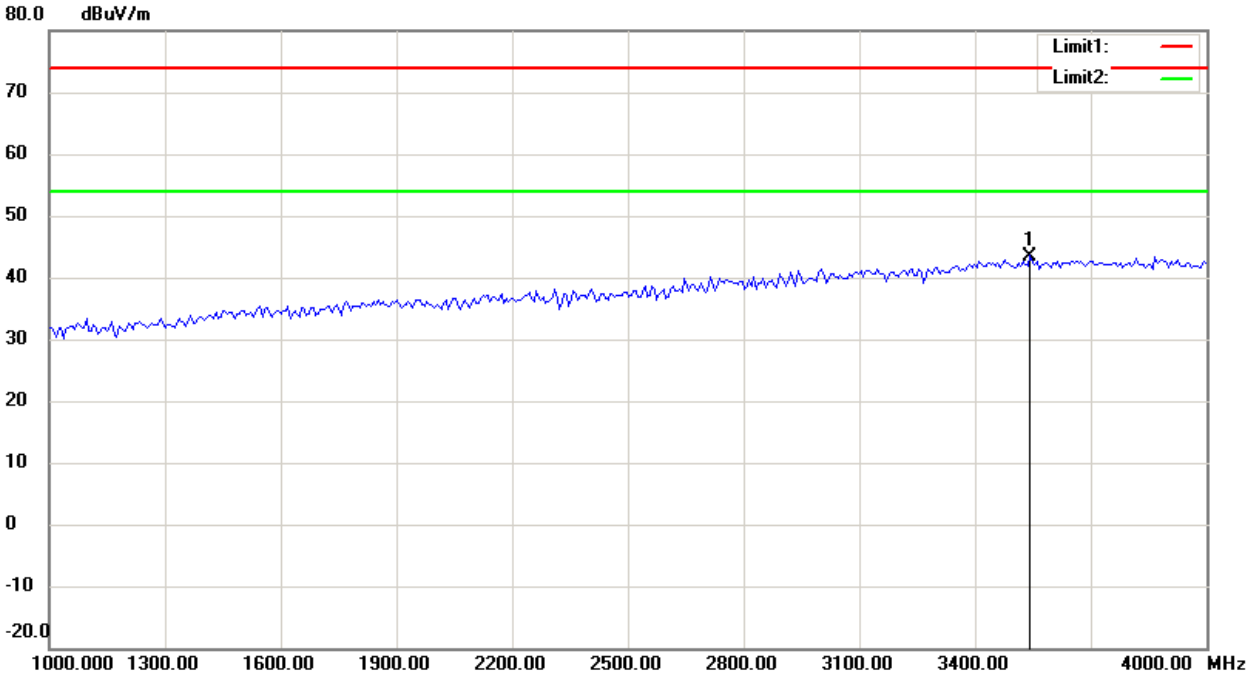

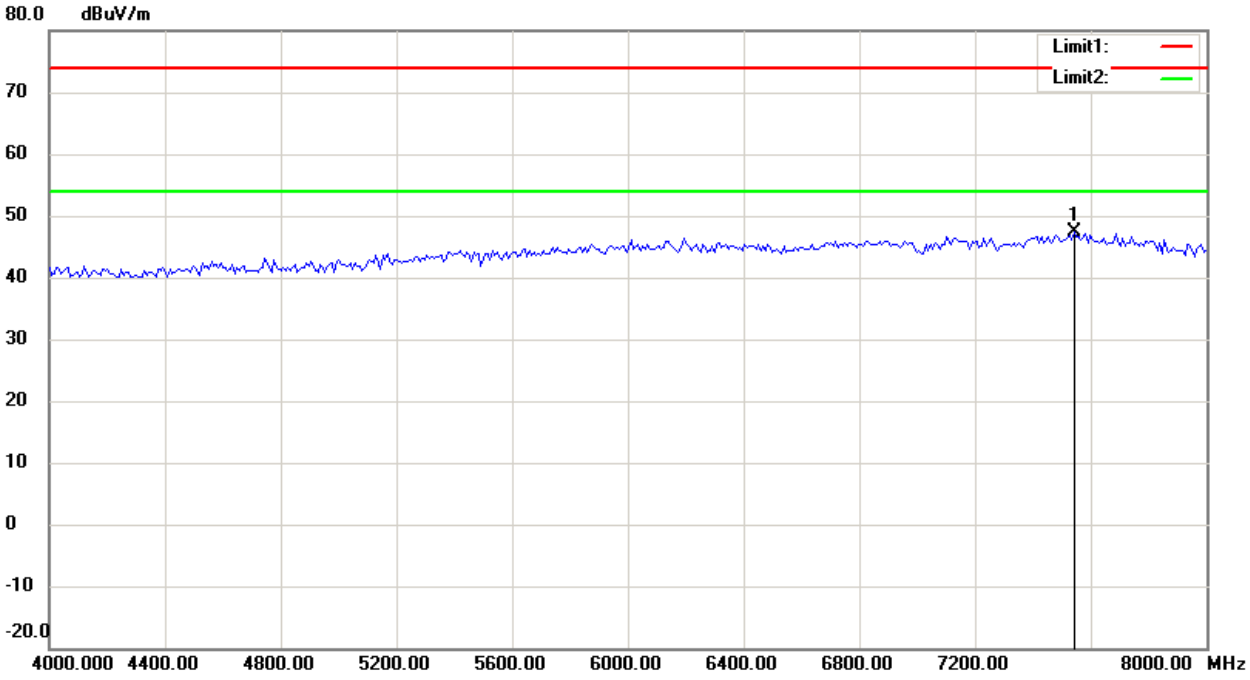

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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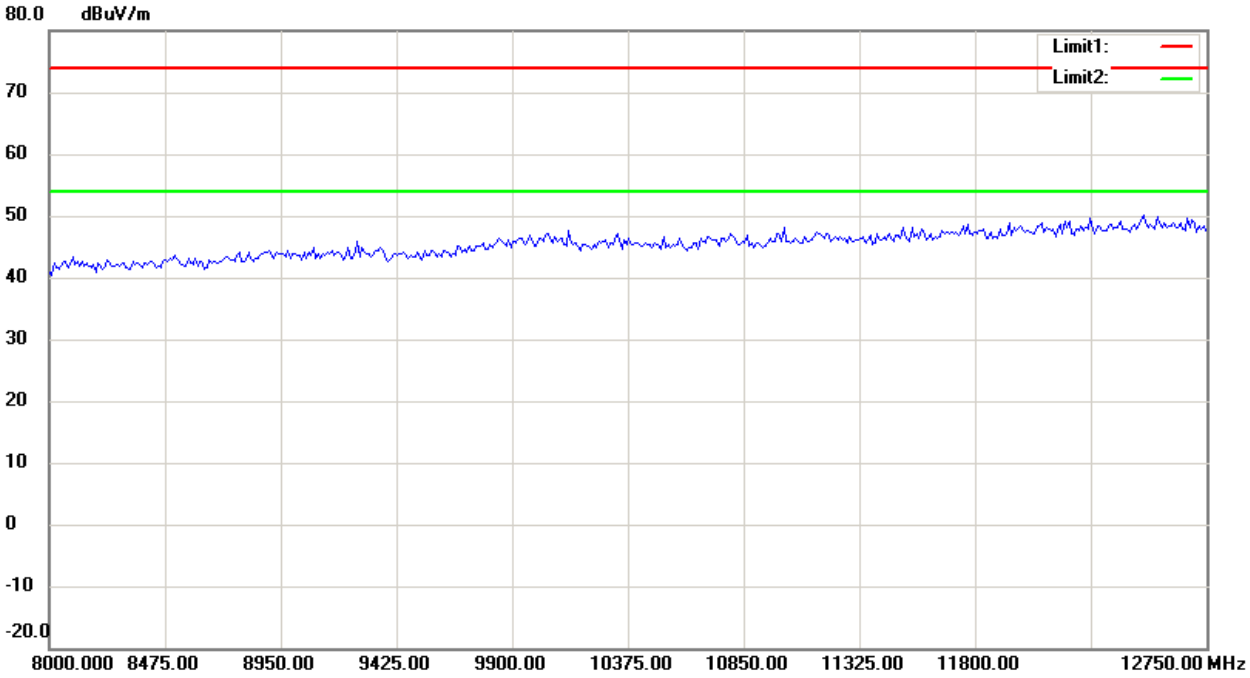
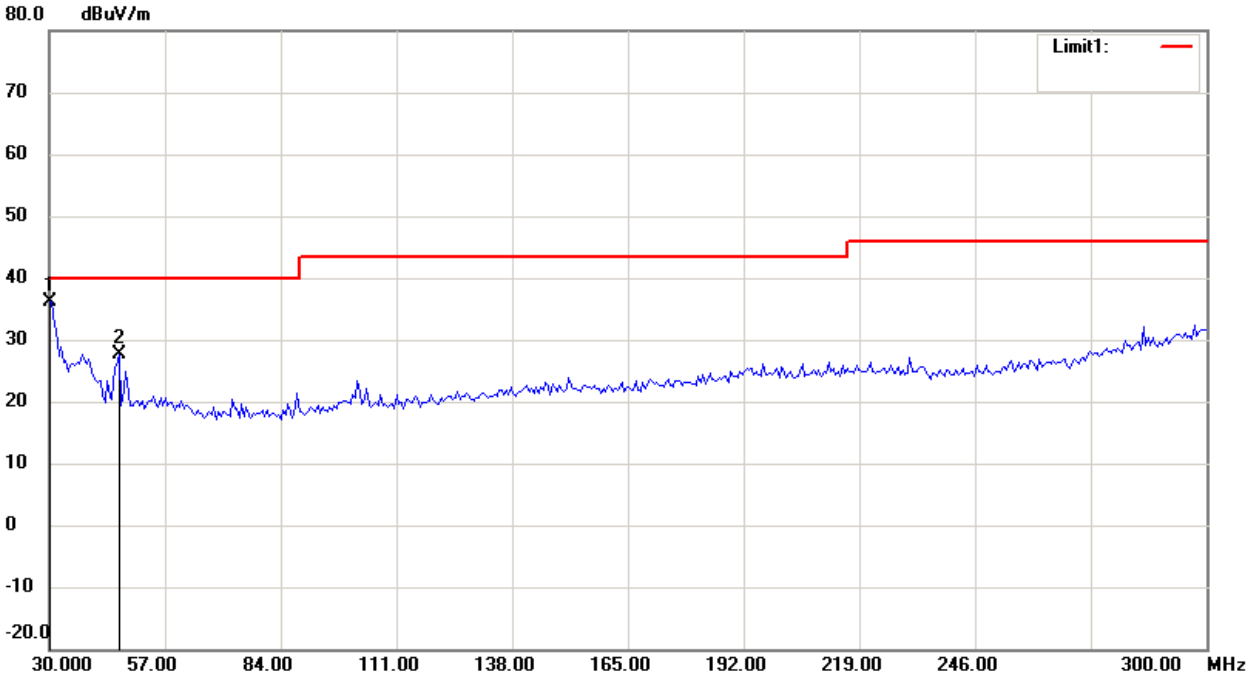


Antenna Polarization V



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.**
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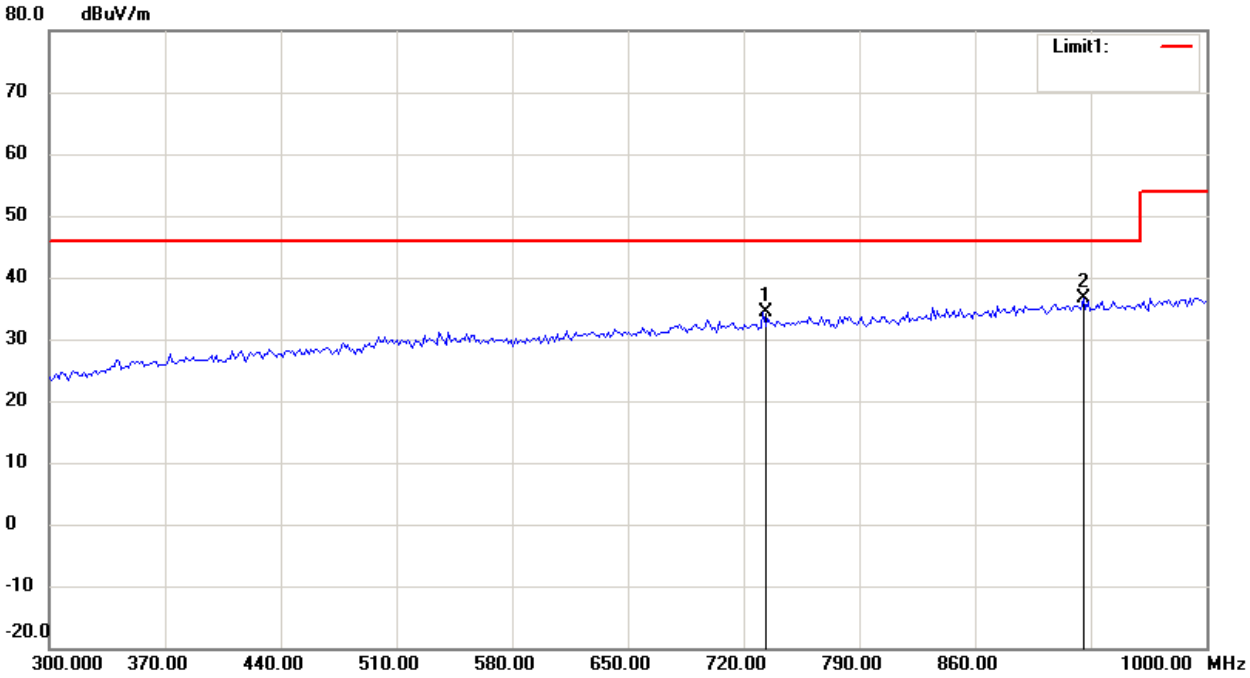

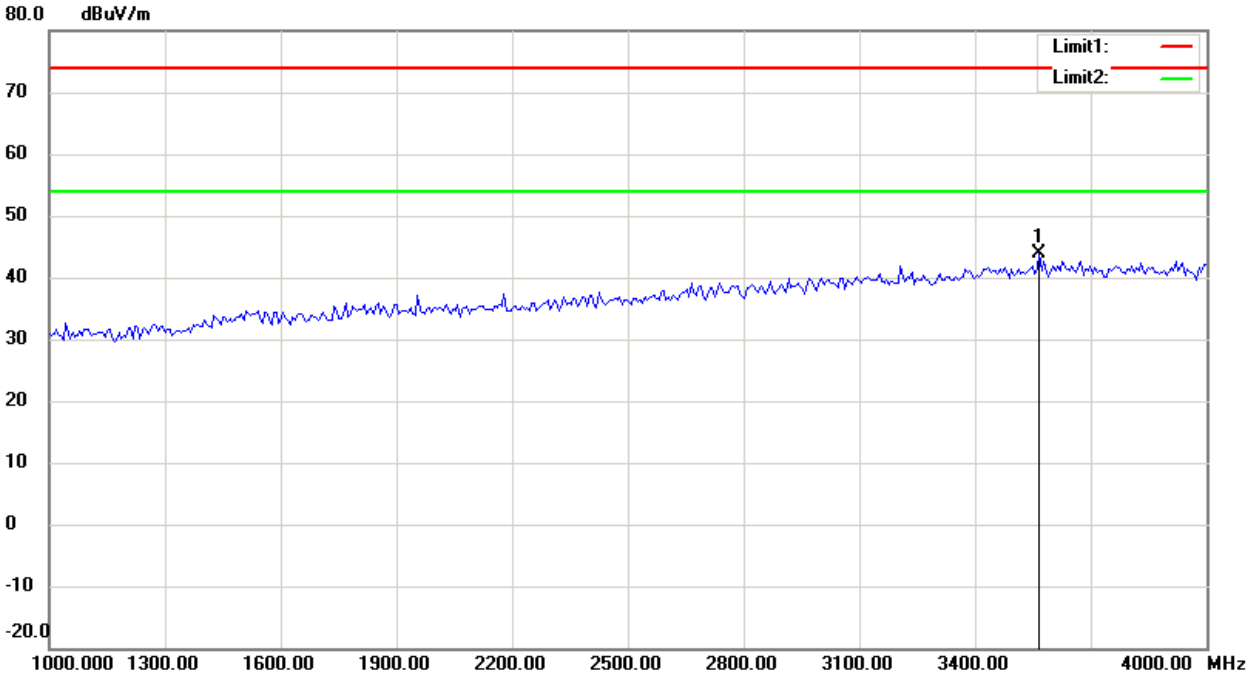

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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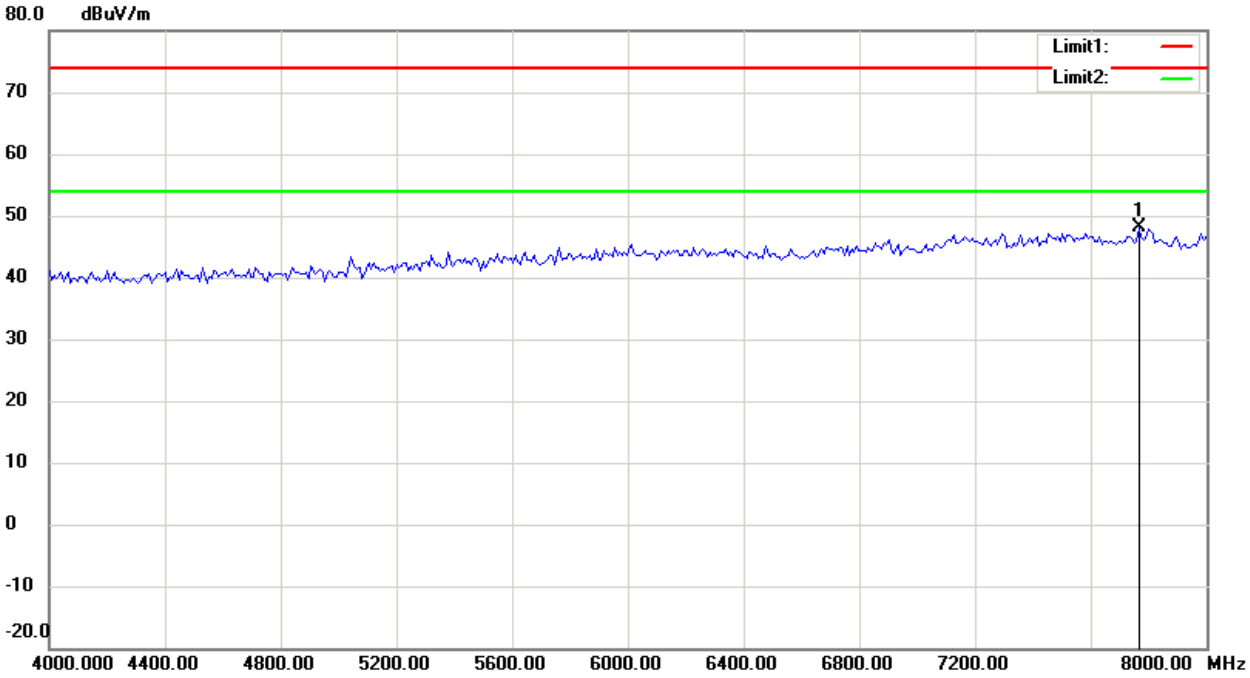
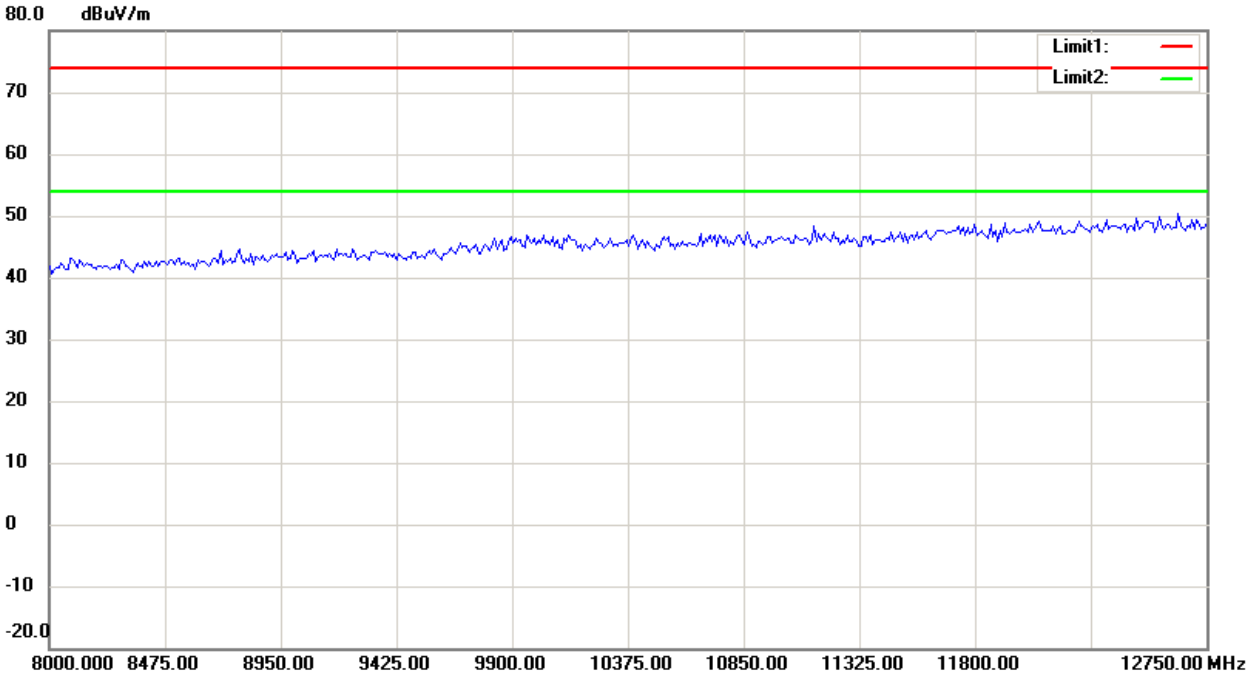
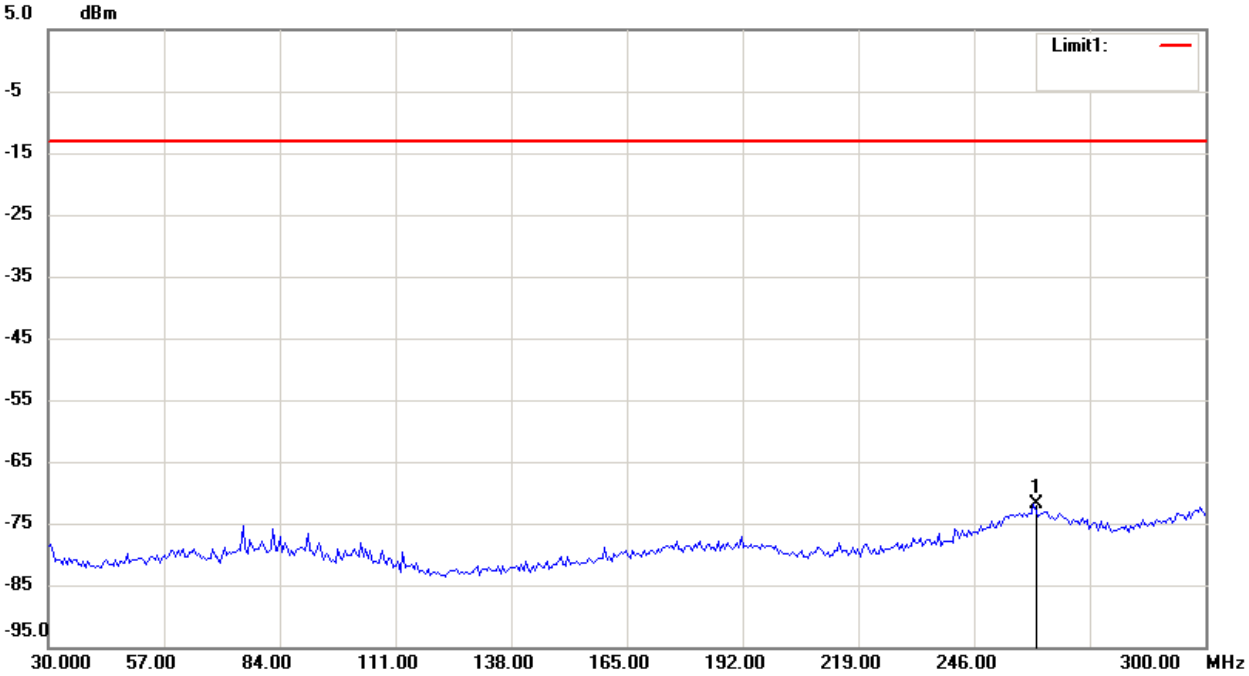


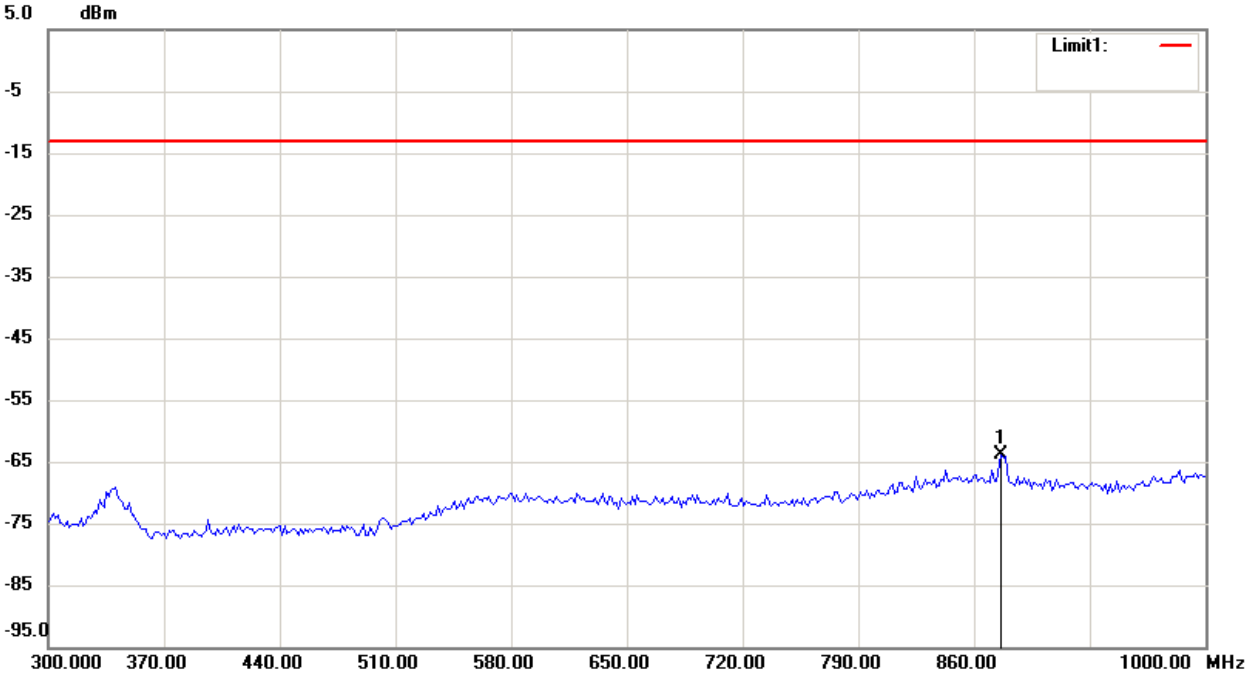


Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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.**

1900 band_ CH 512_3.7 V
Antenna Polarization H





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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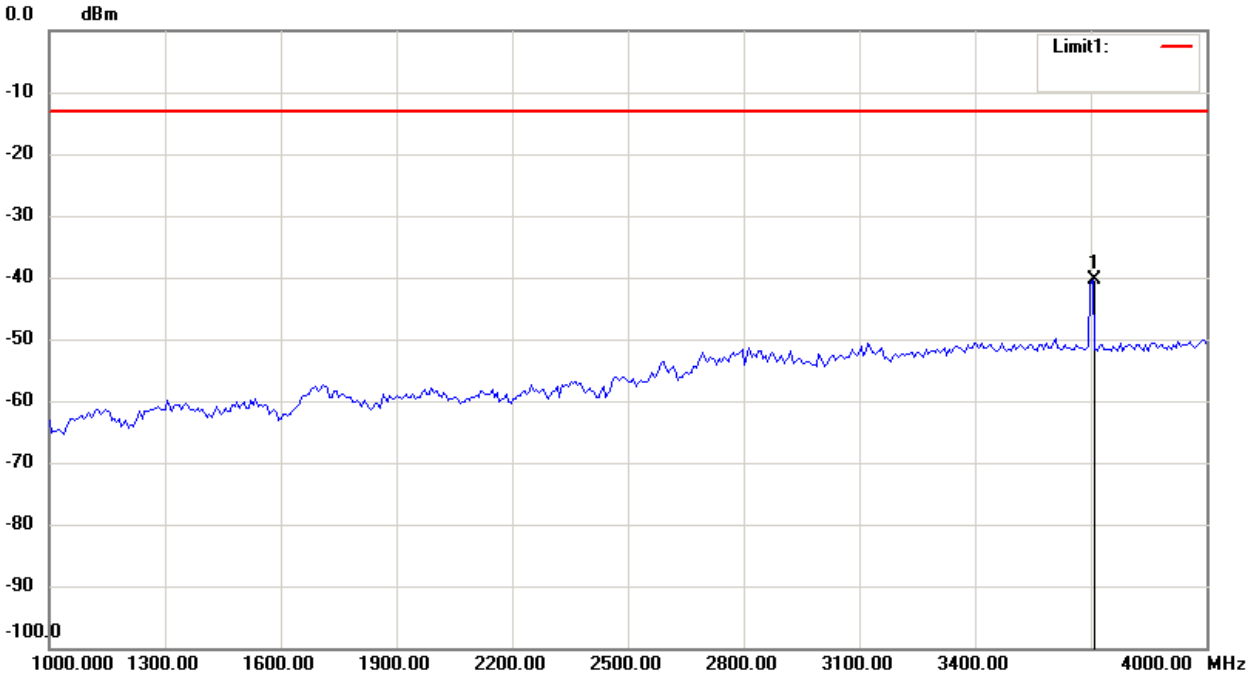

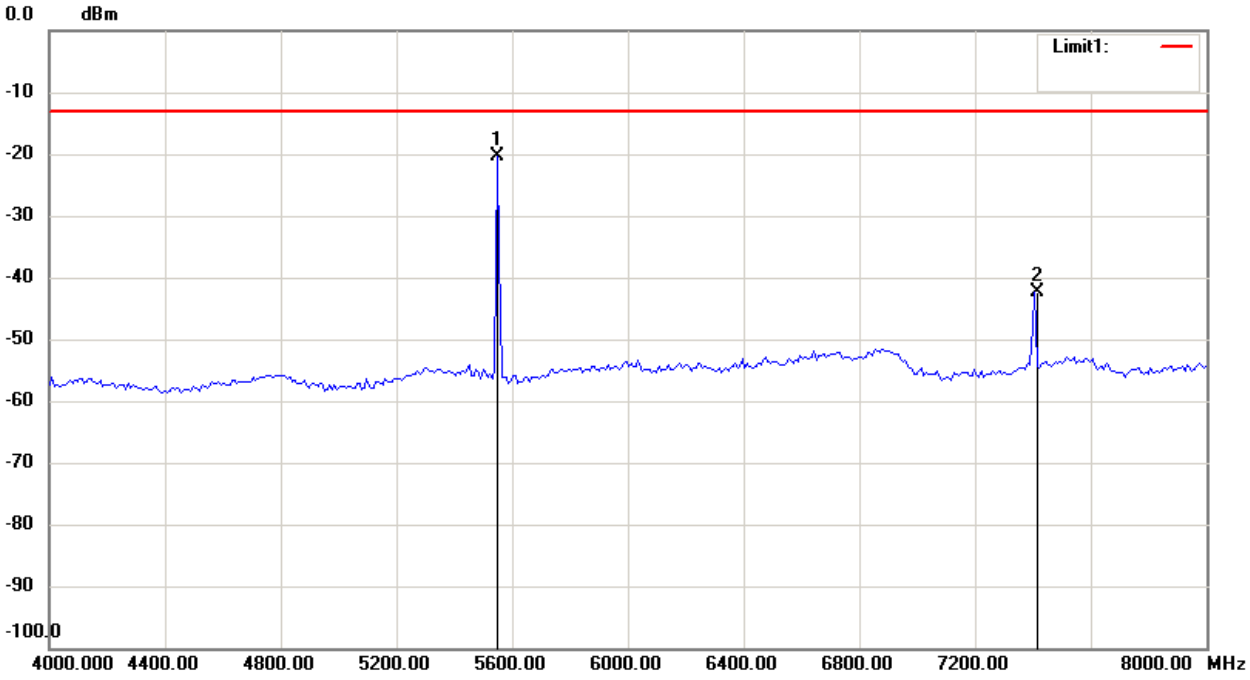

Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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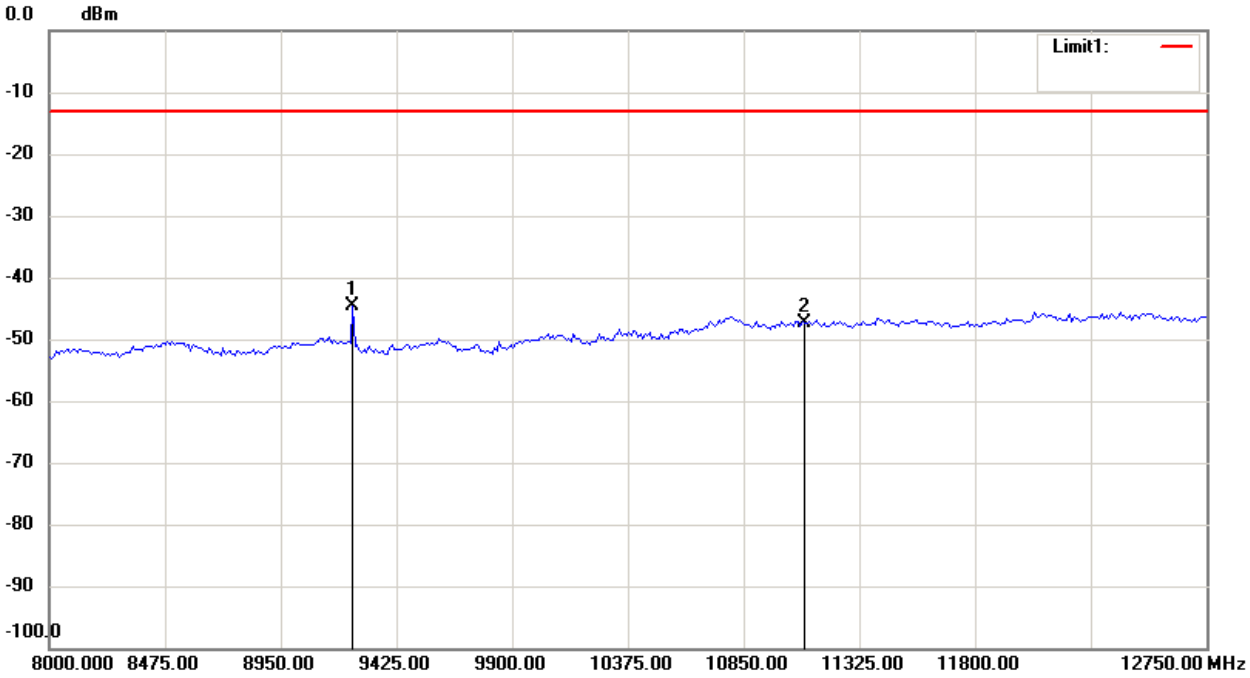
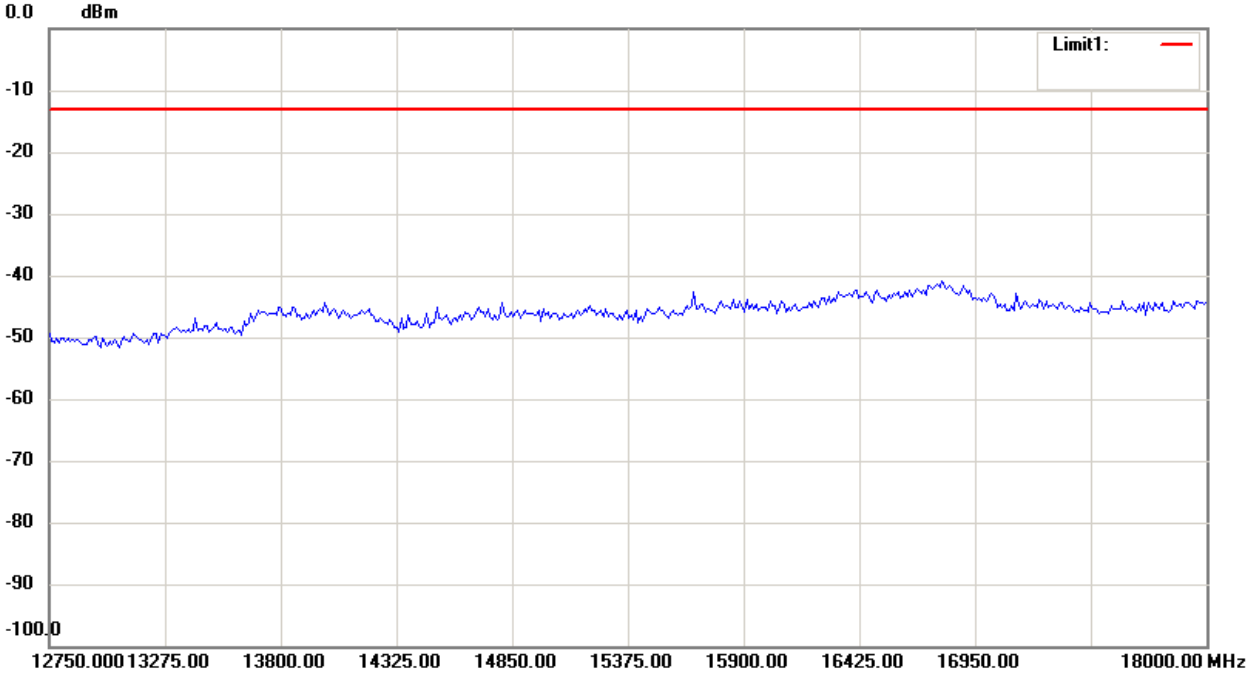
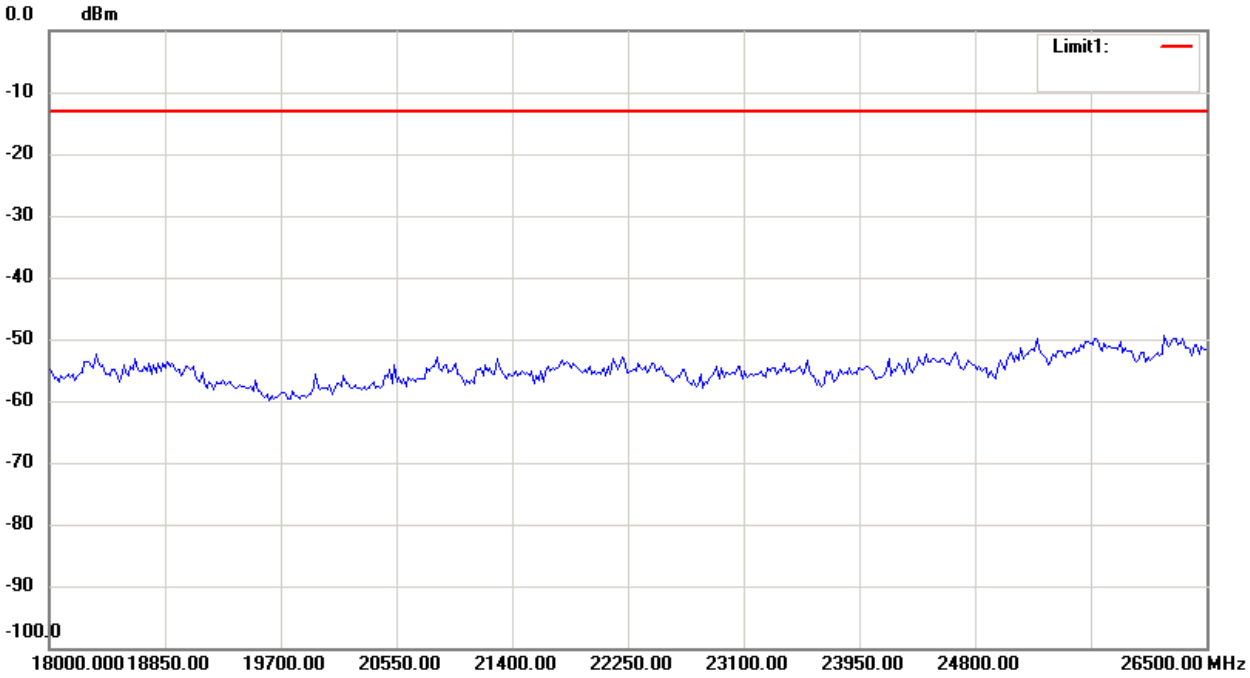


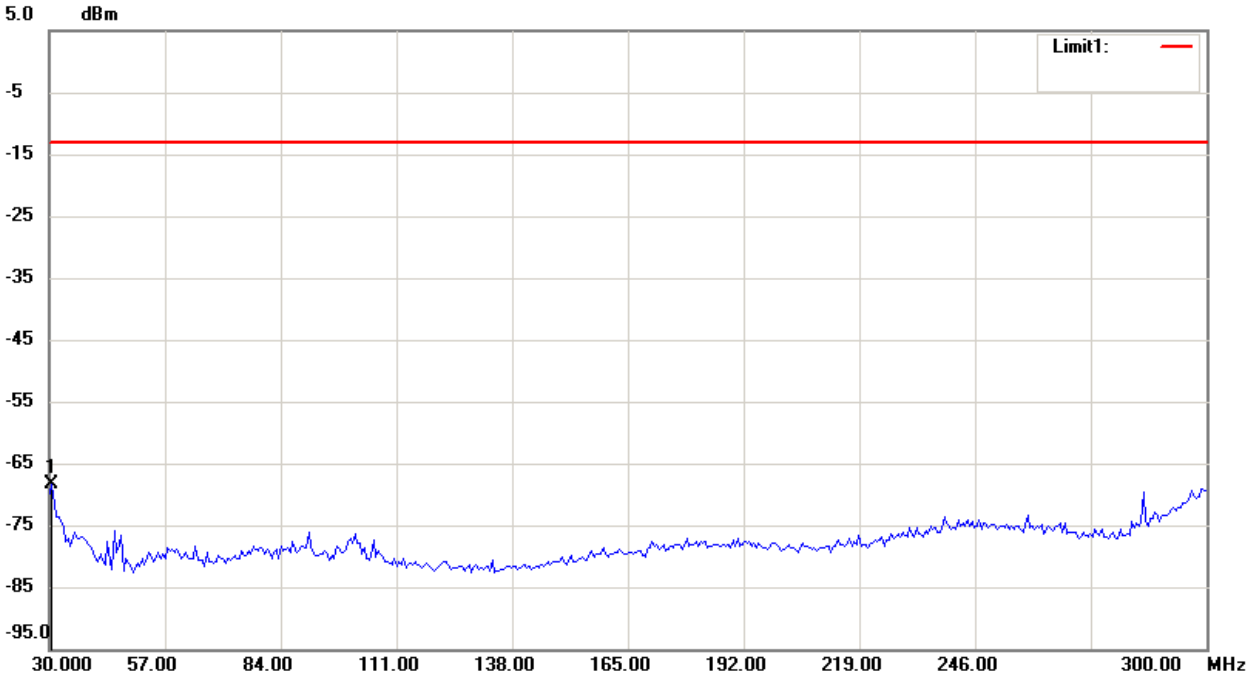


Note:

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.**



Antenna Polarization V



Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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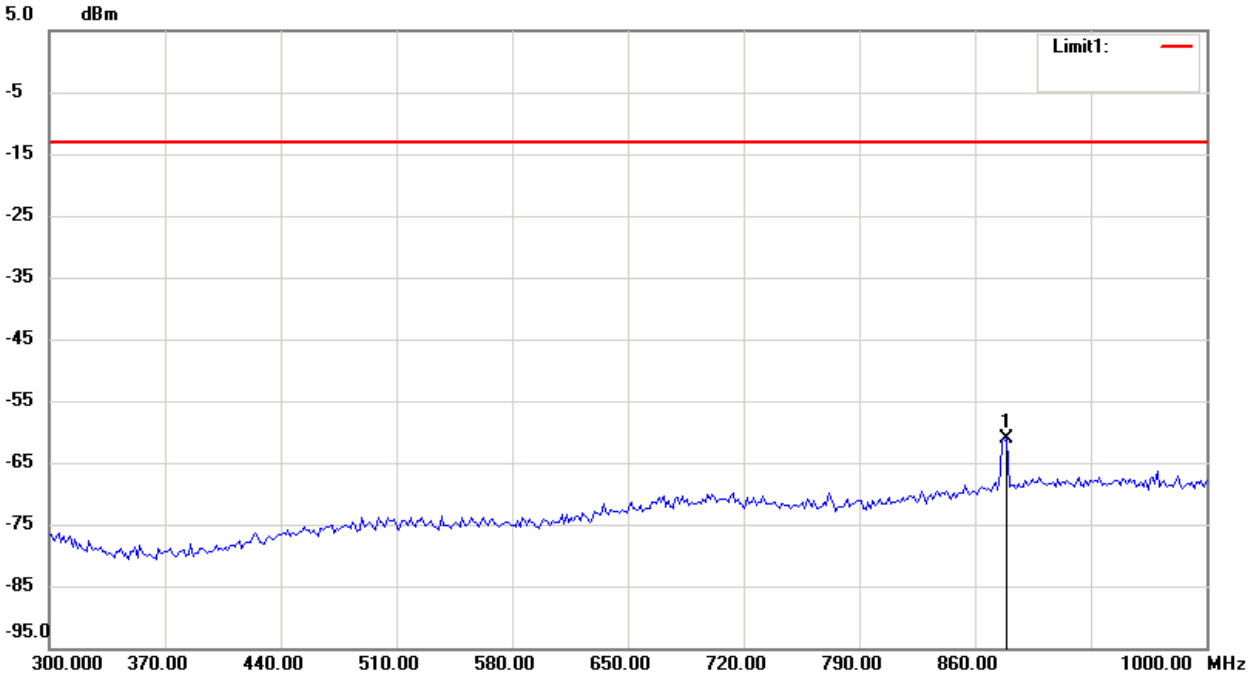

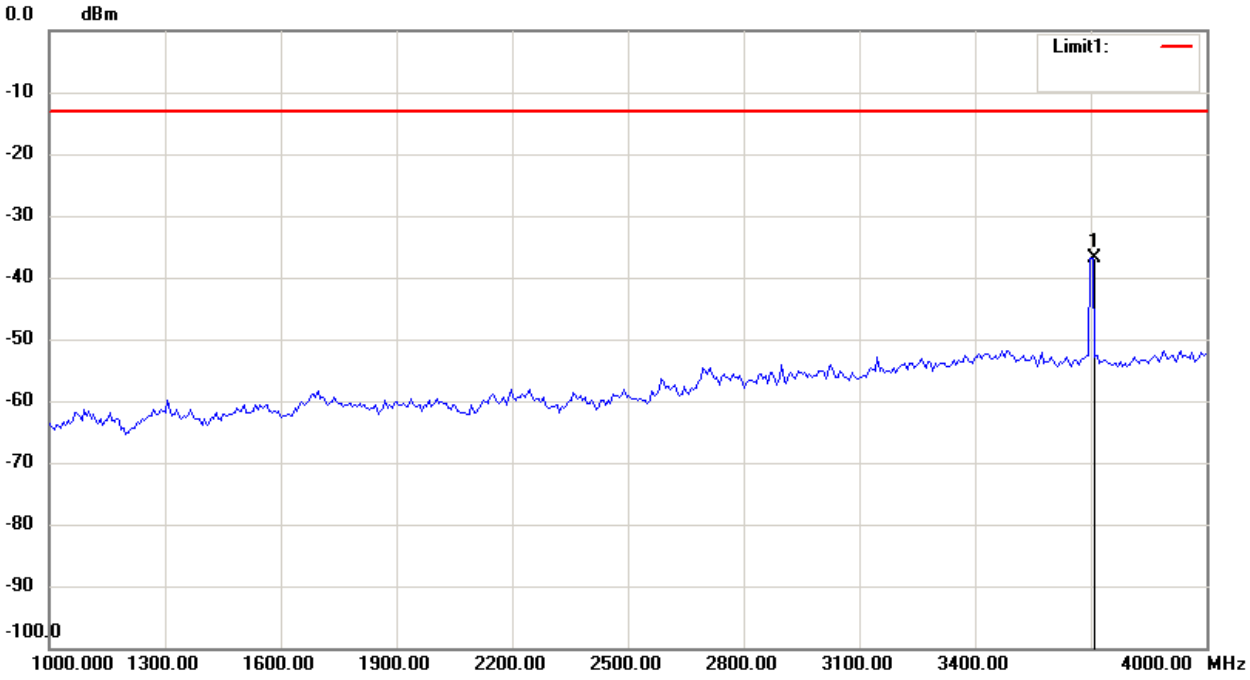

Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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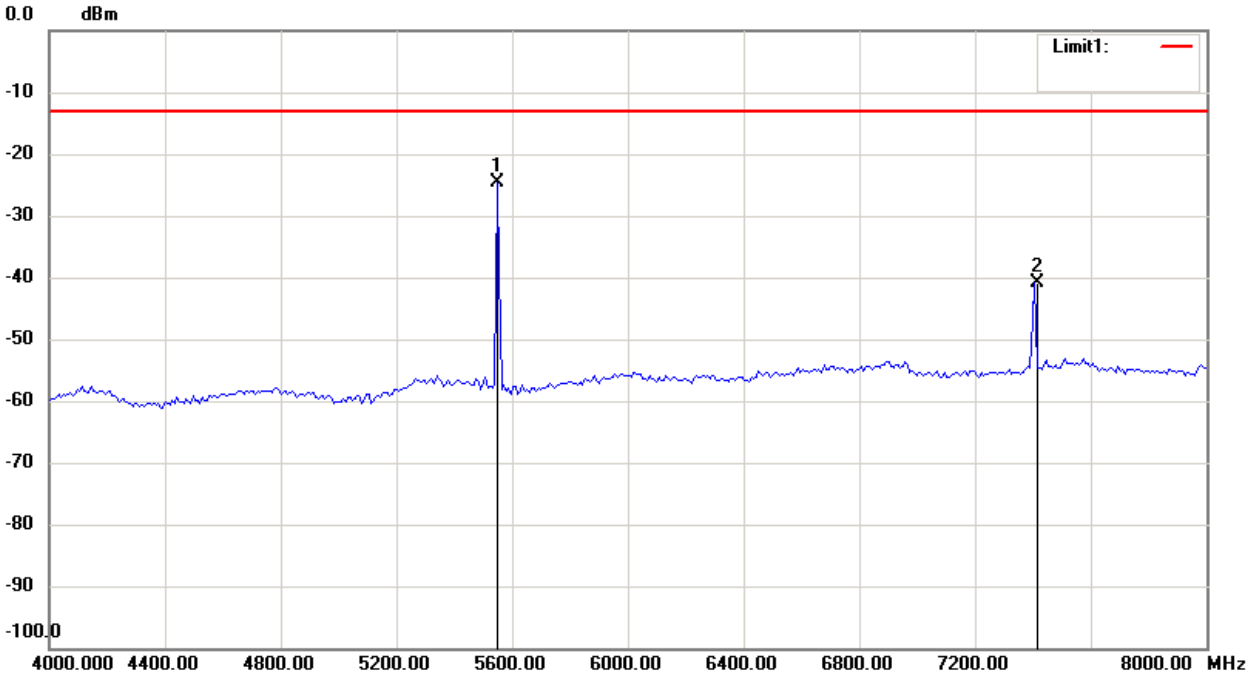

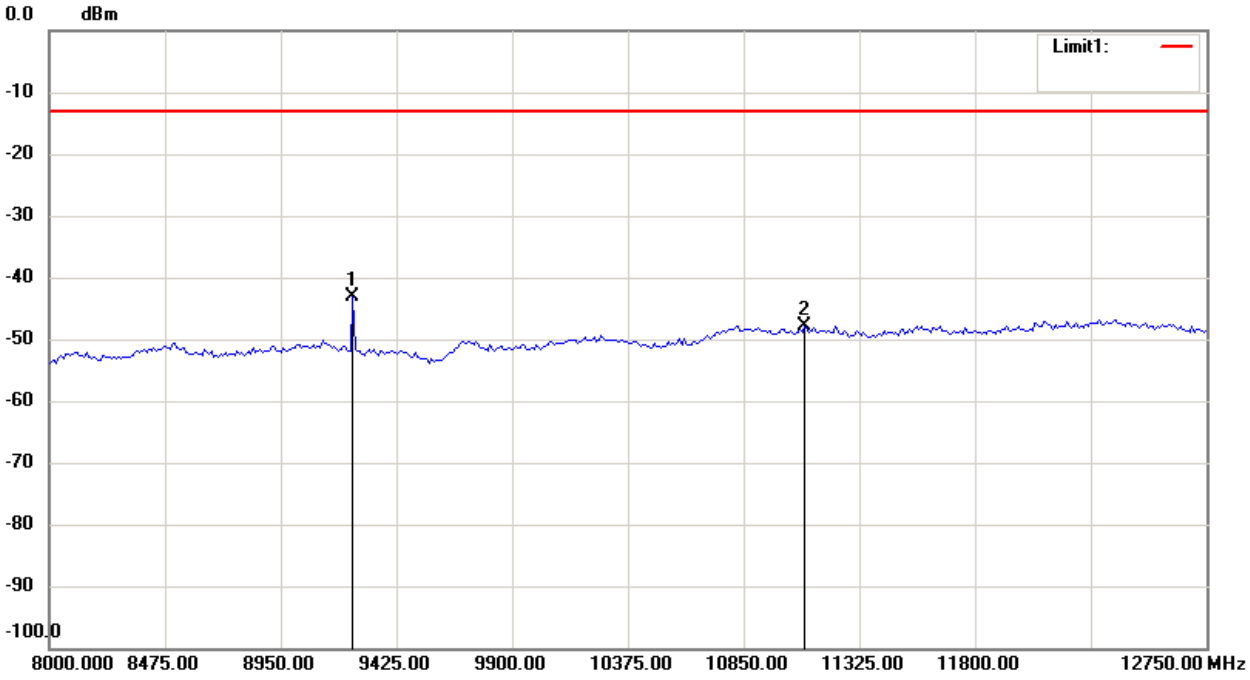

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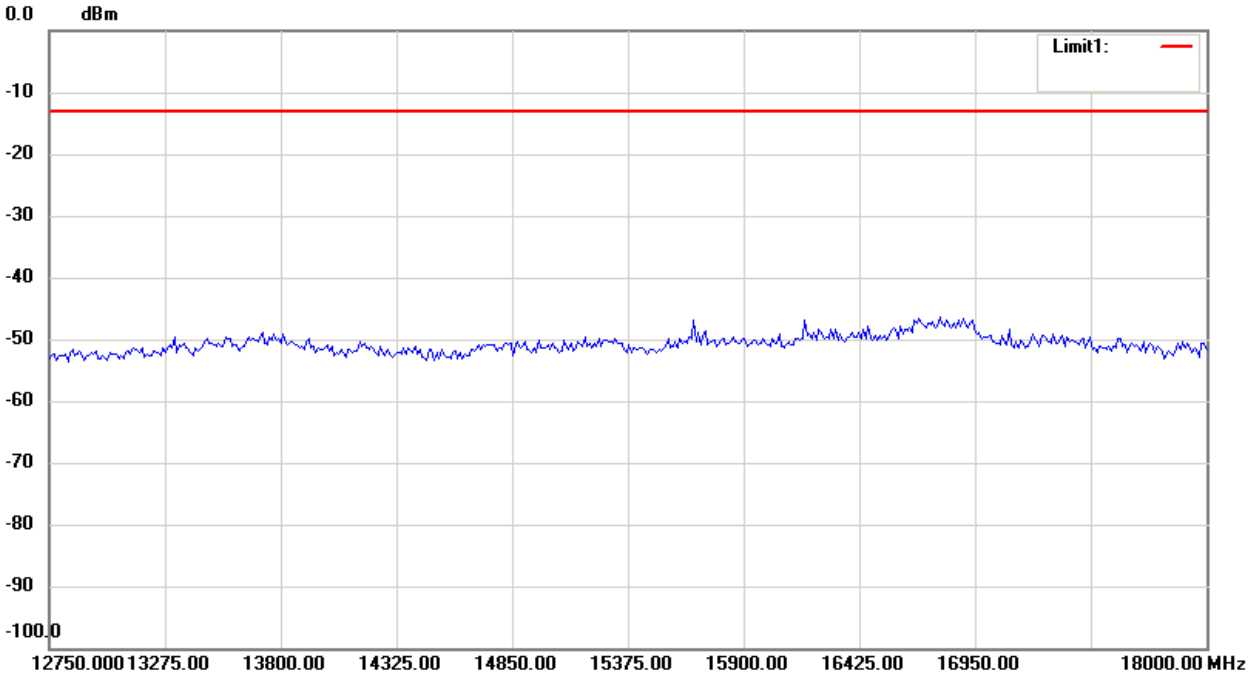
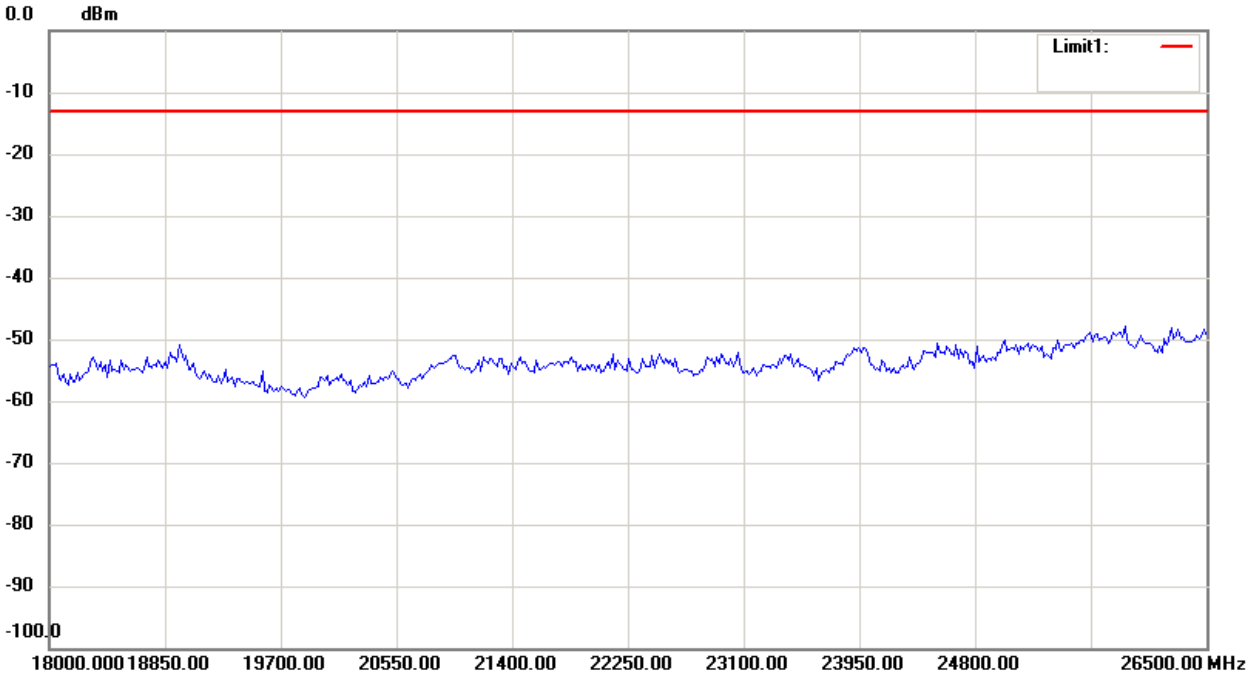
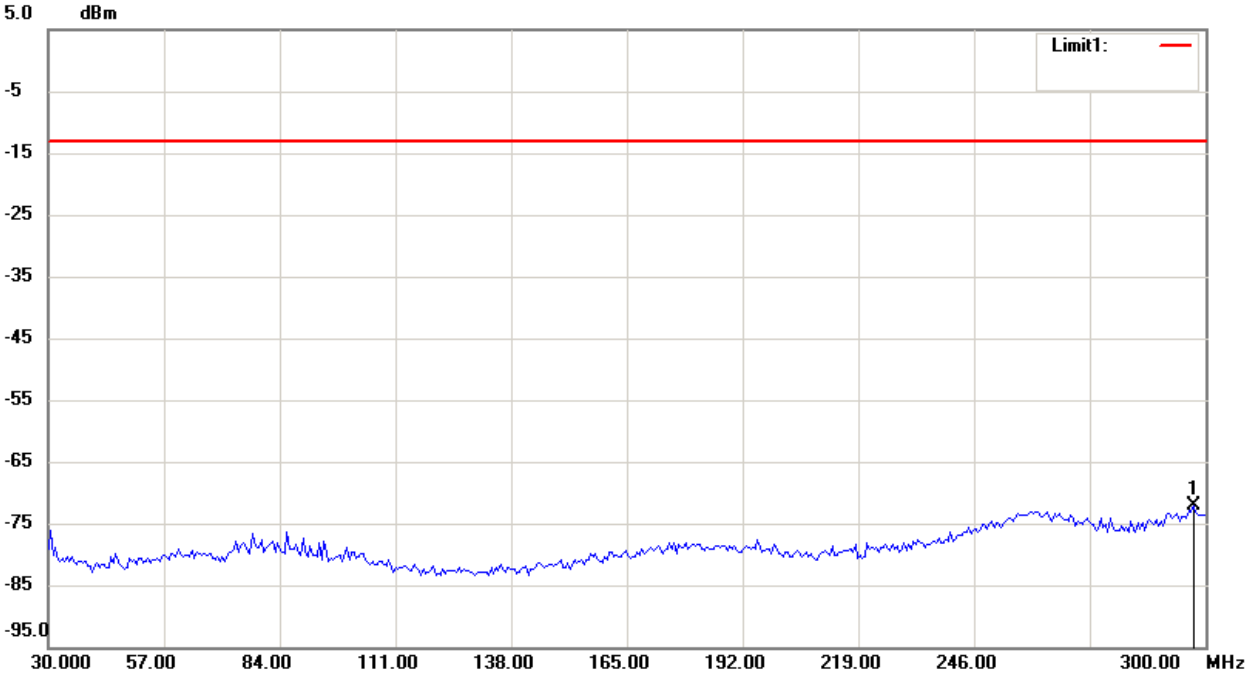


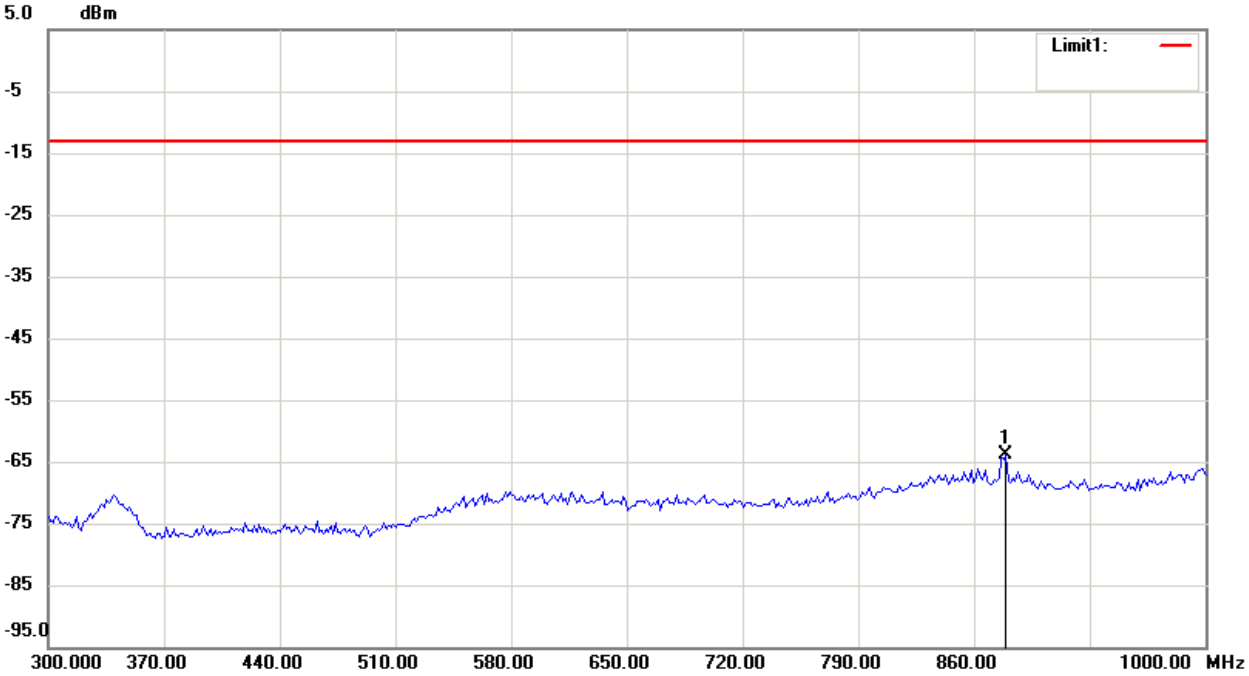


Note:

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.**

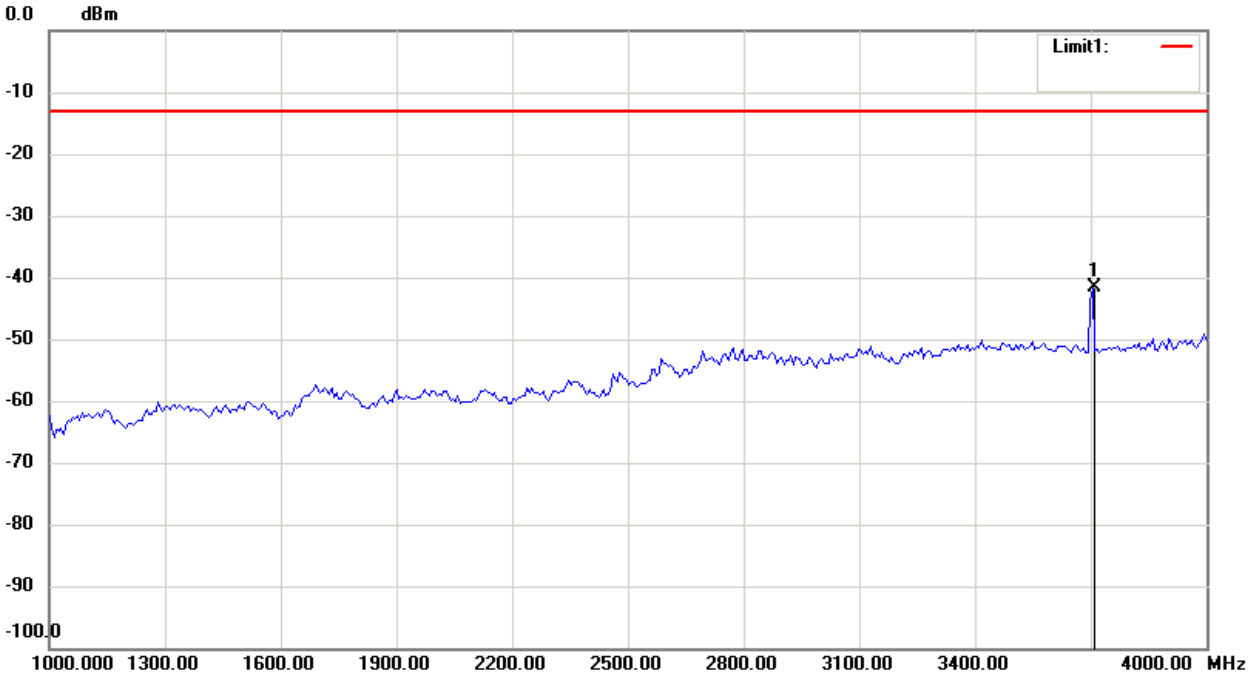
1900 band_ CH 512_3.6 V
Antenna Polarization H

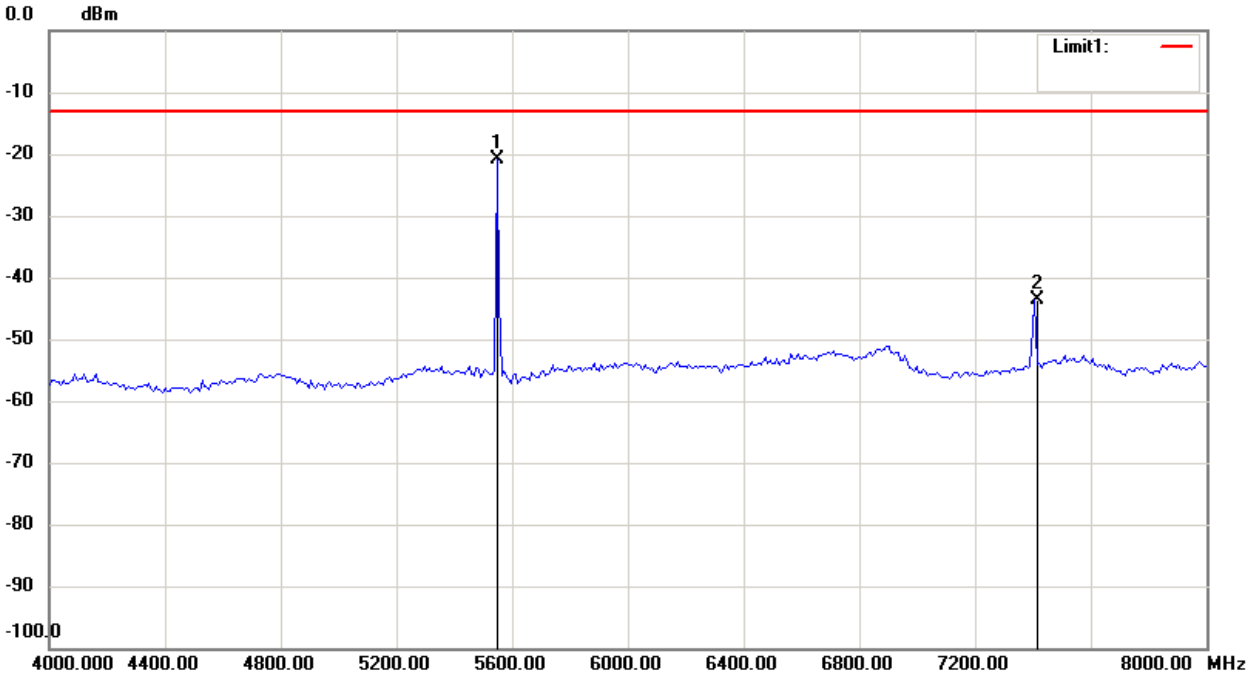




Note:

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





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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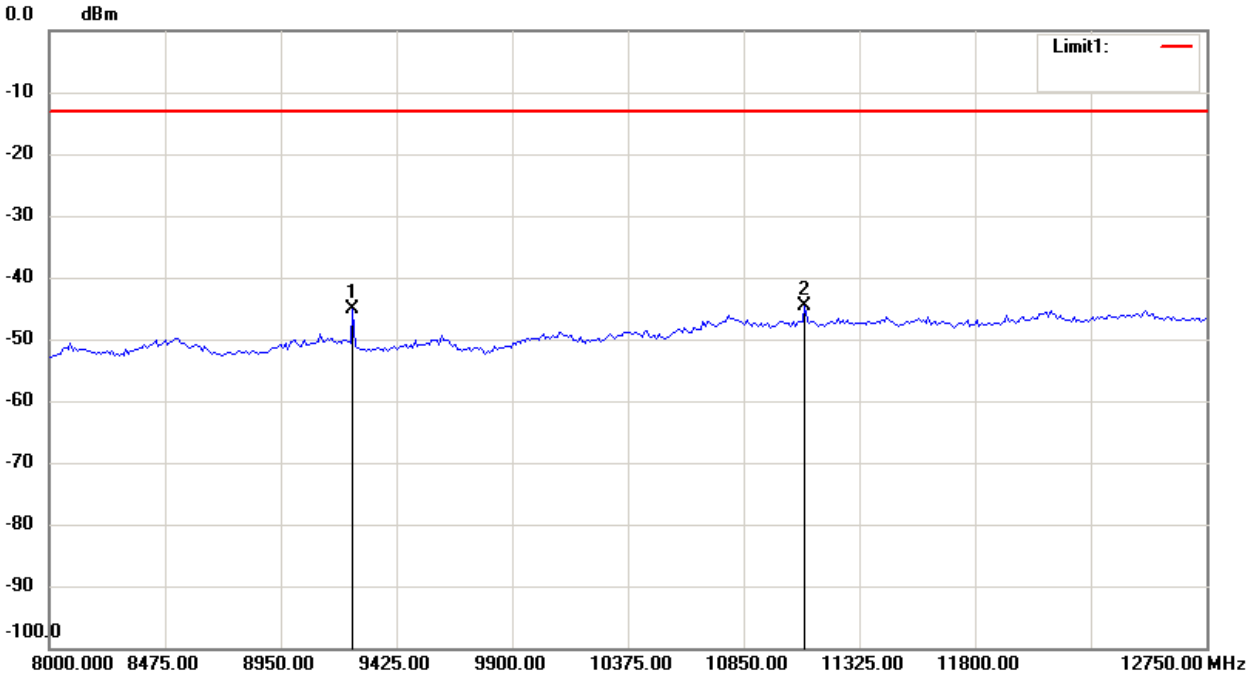
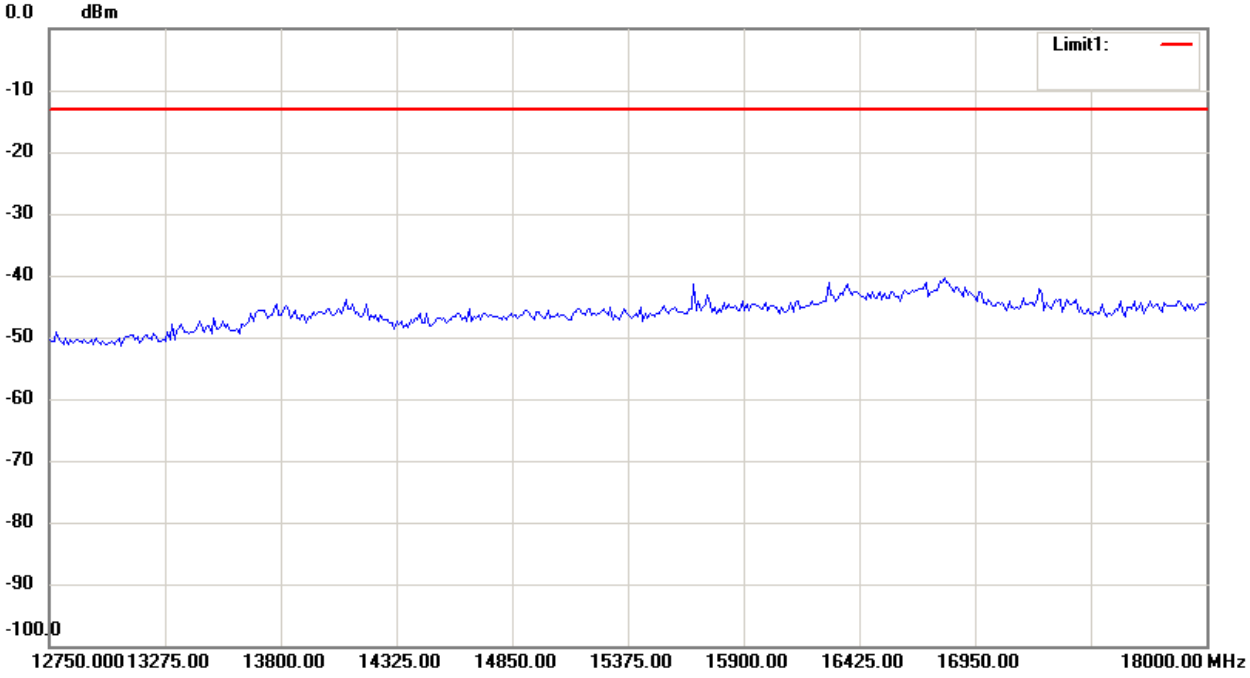
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

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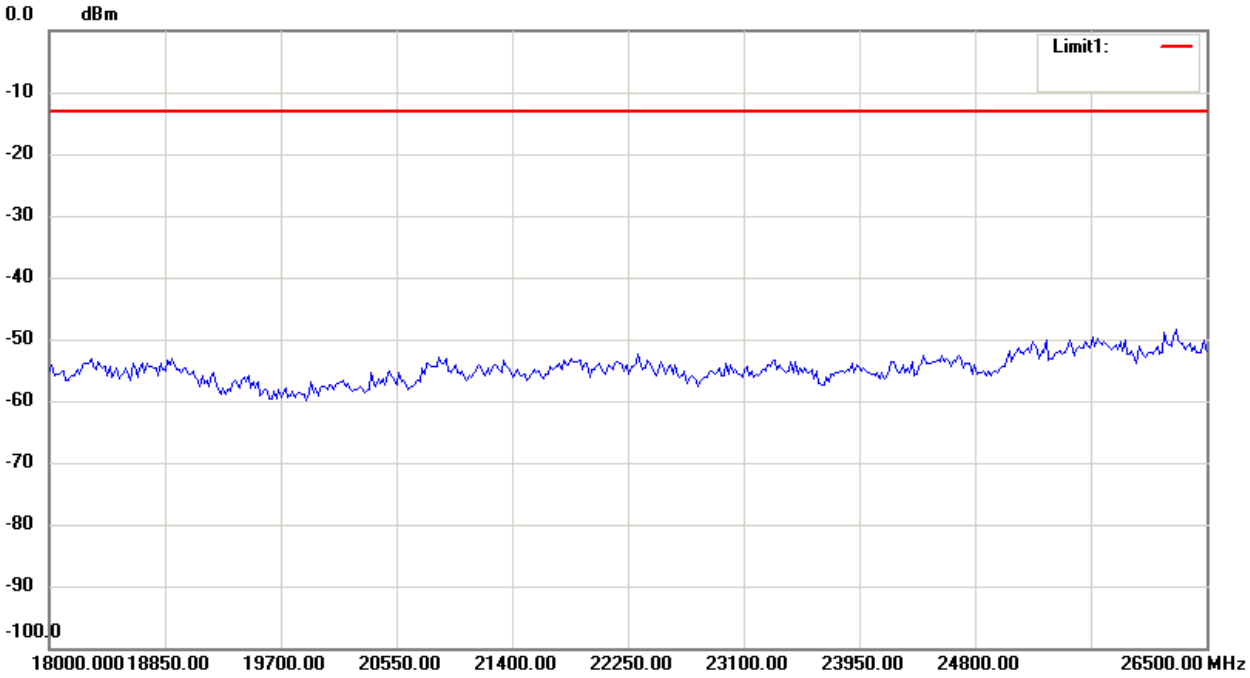
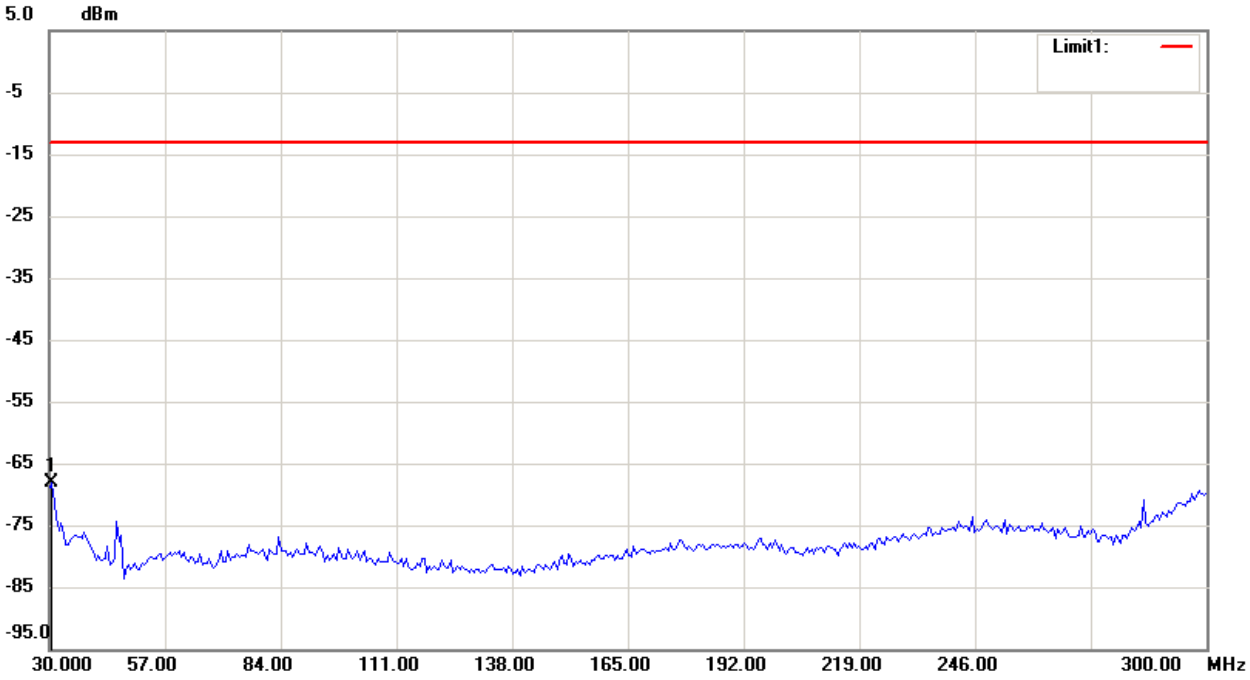


Antenna Polarization V



Note:

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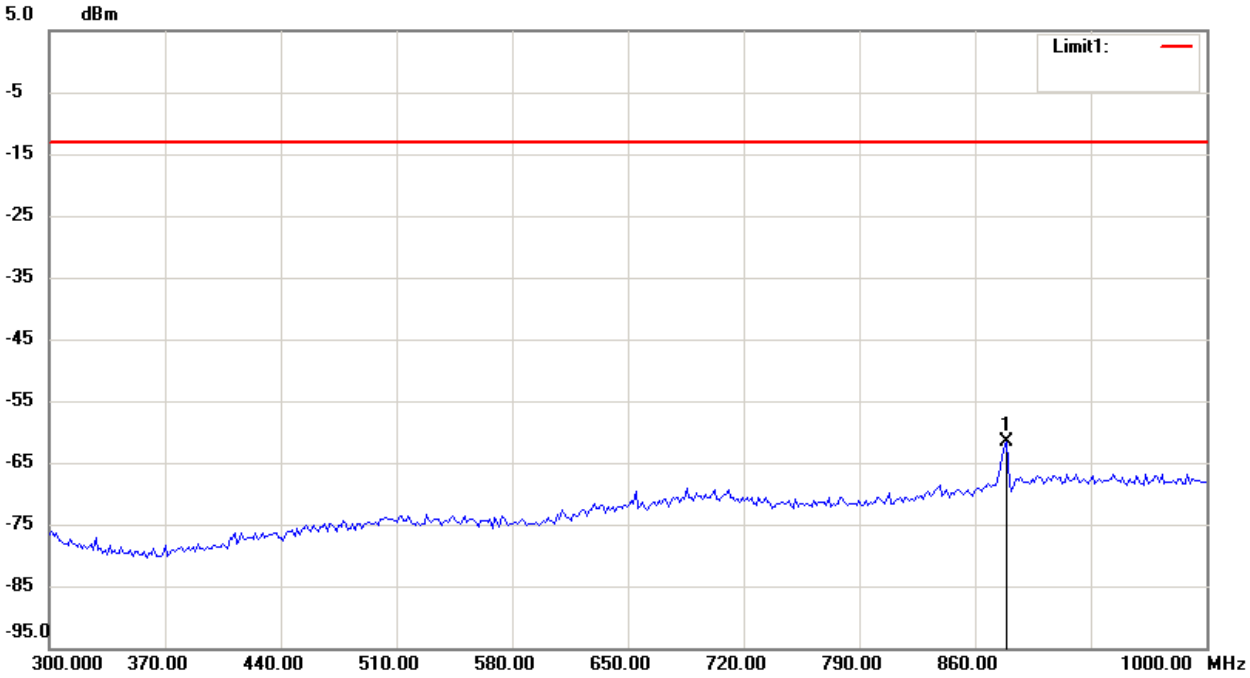
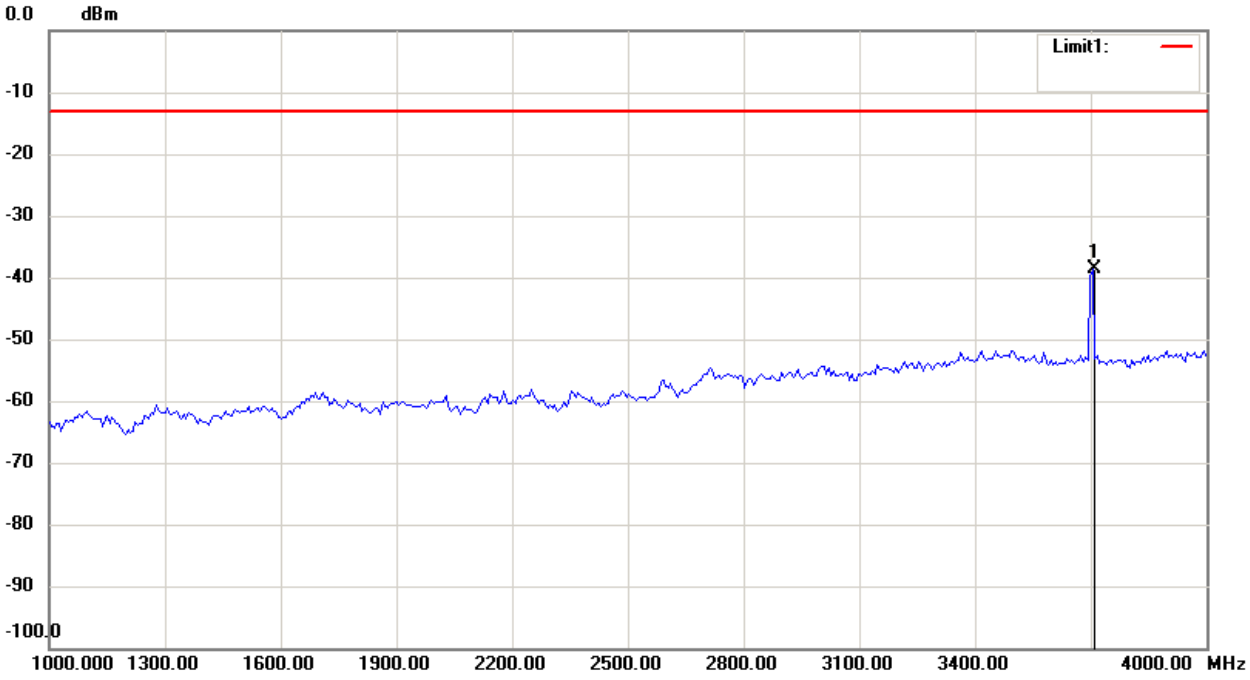
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

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2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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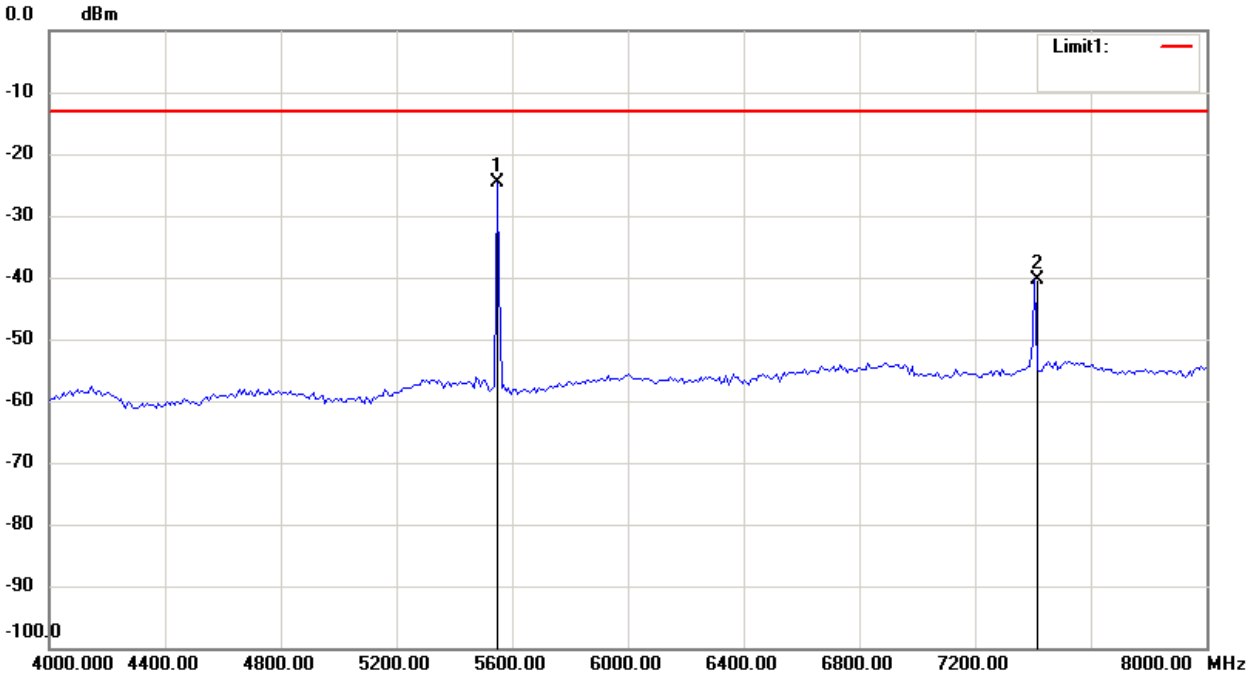

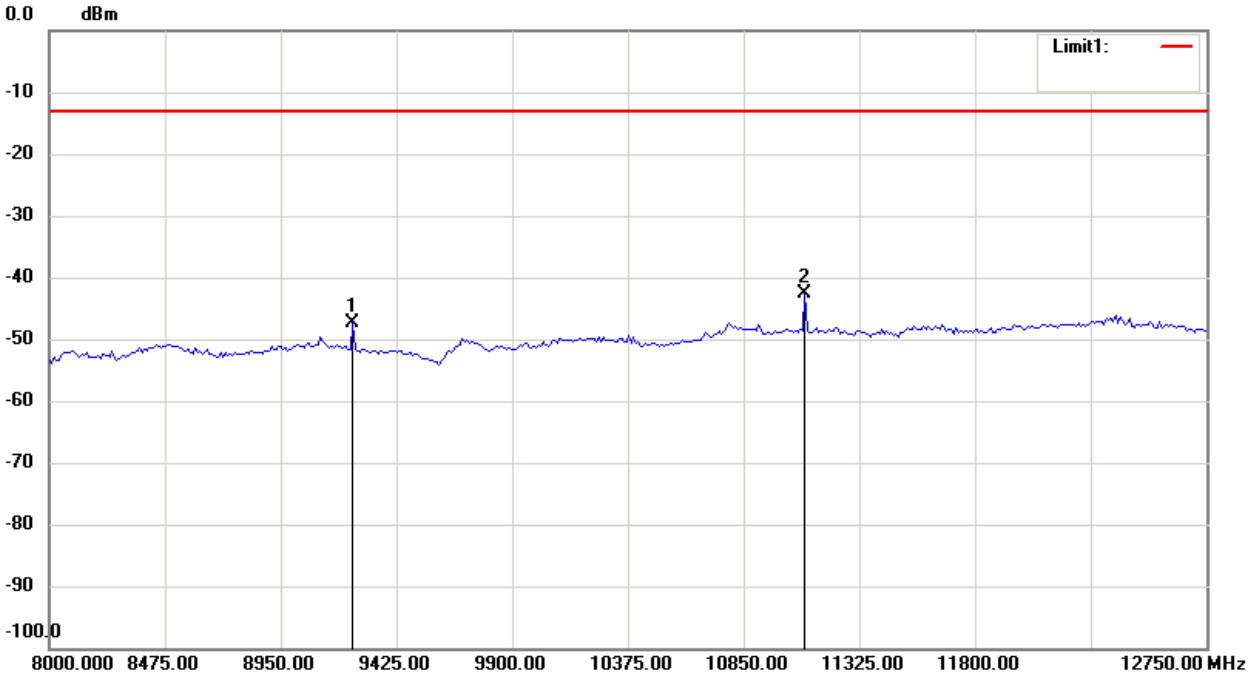

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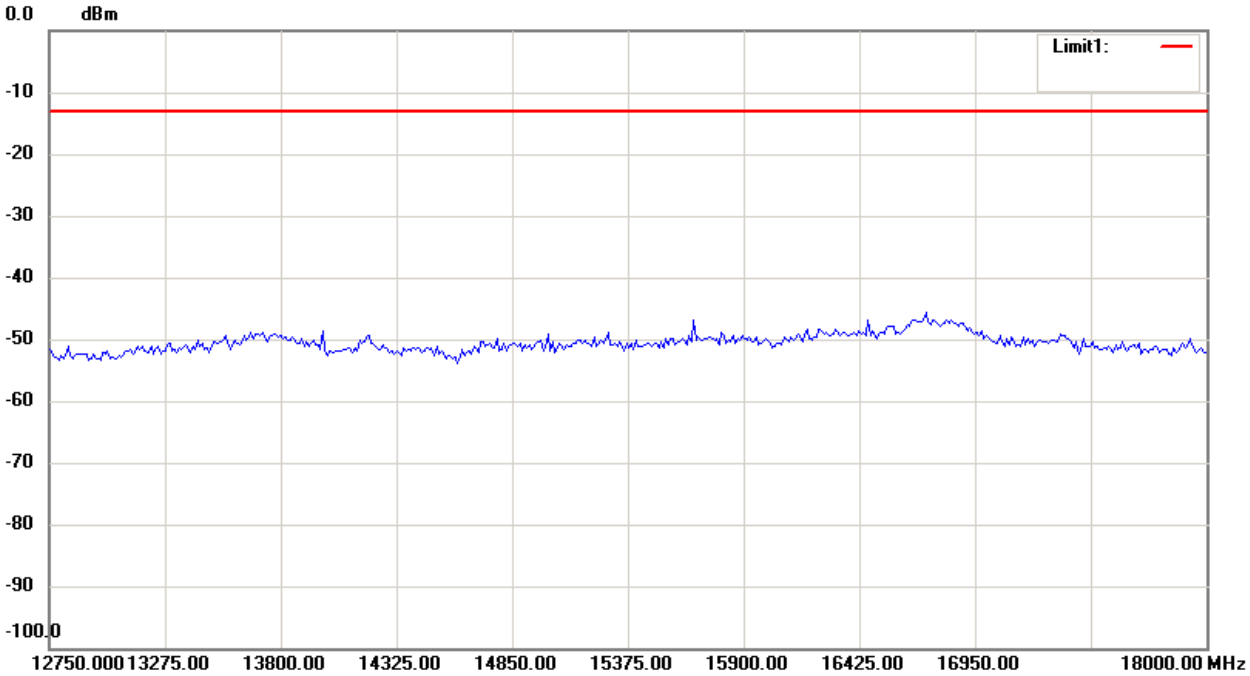

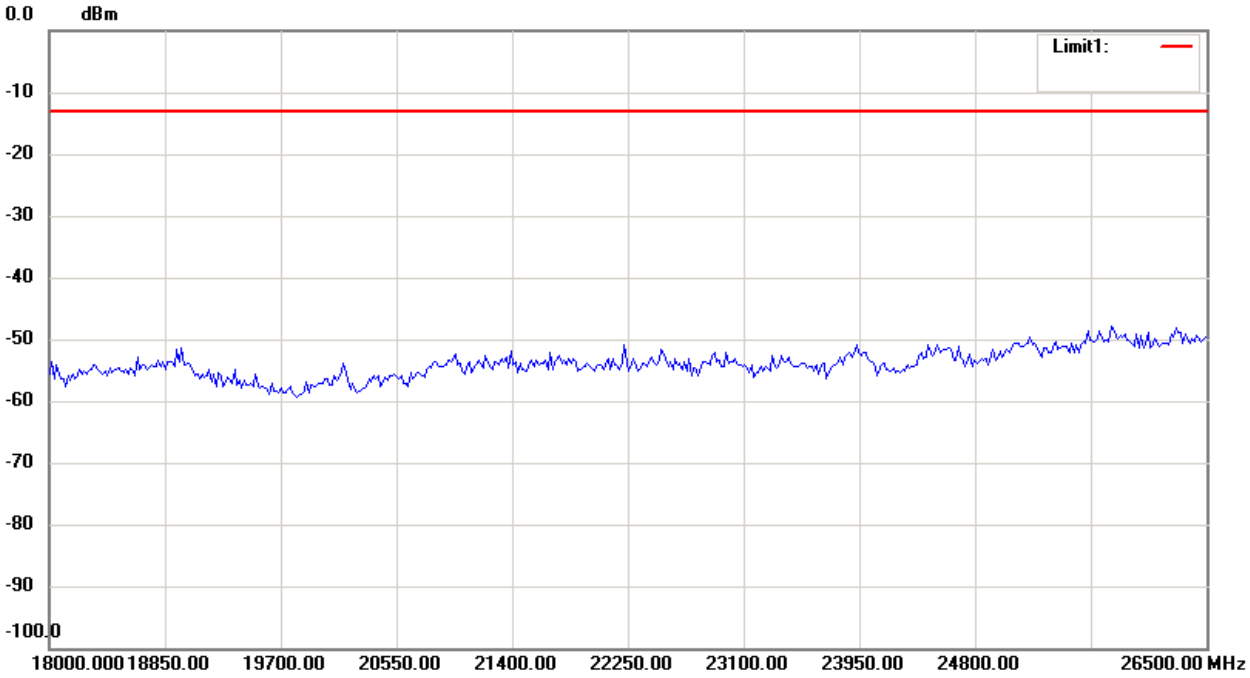

Note:

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2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
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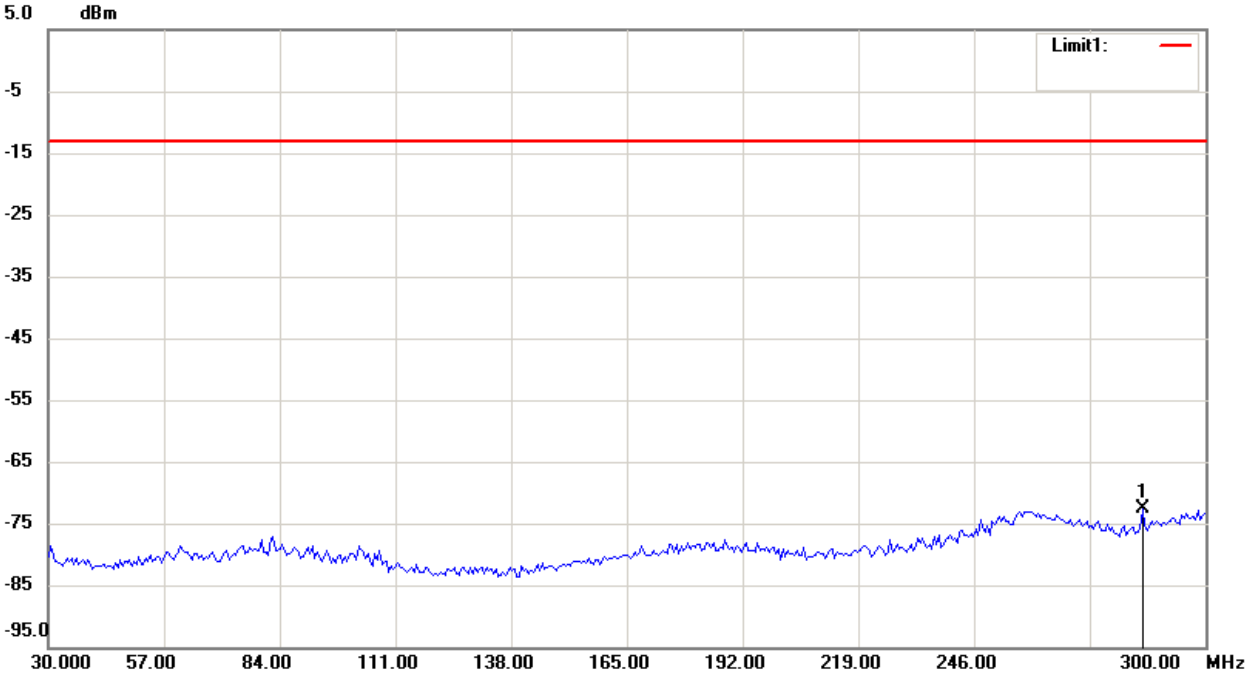
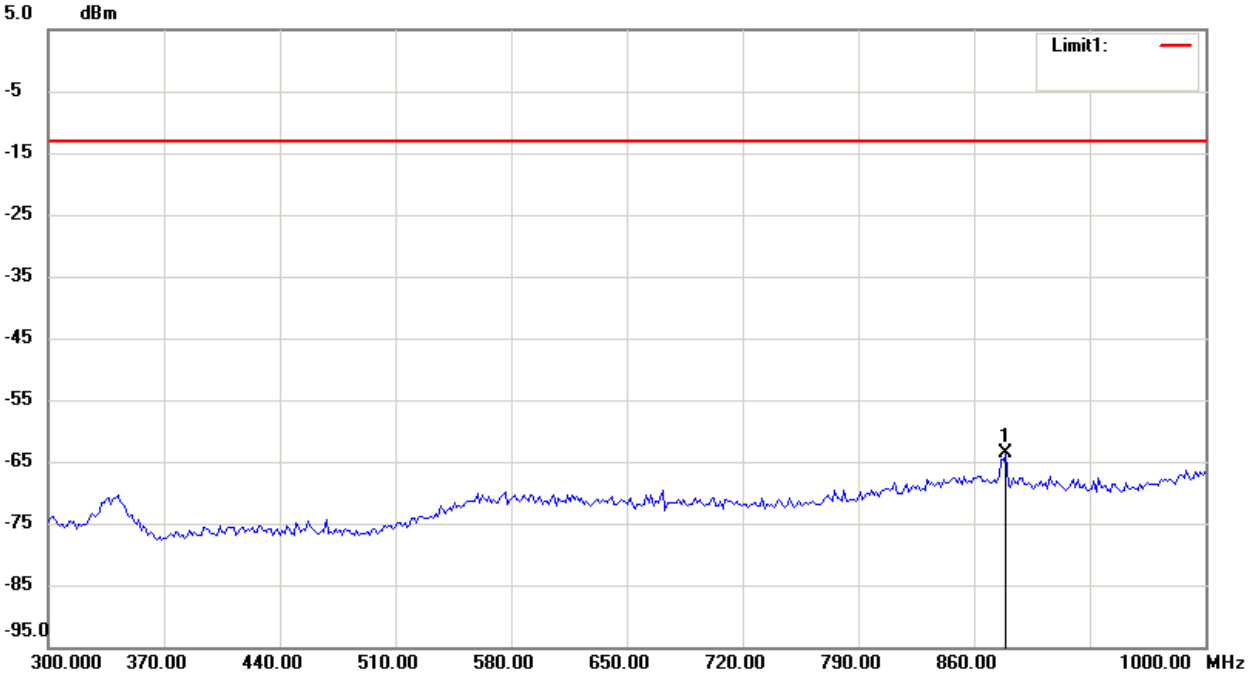
1900 band_ CH 661_3.7 V
Antenna Polarization H





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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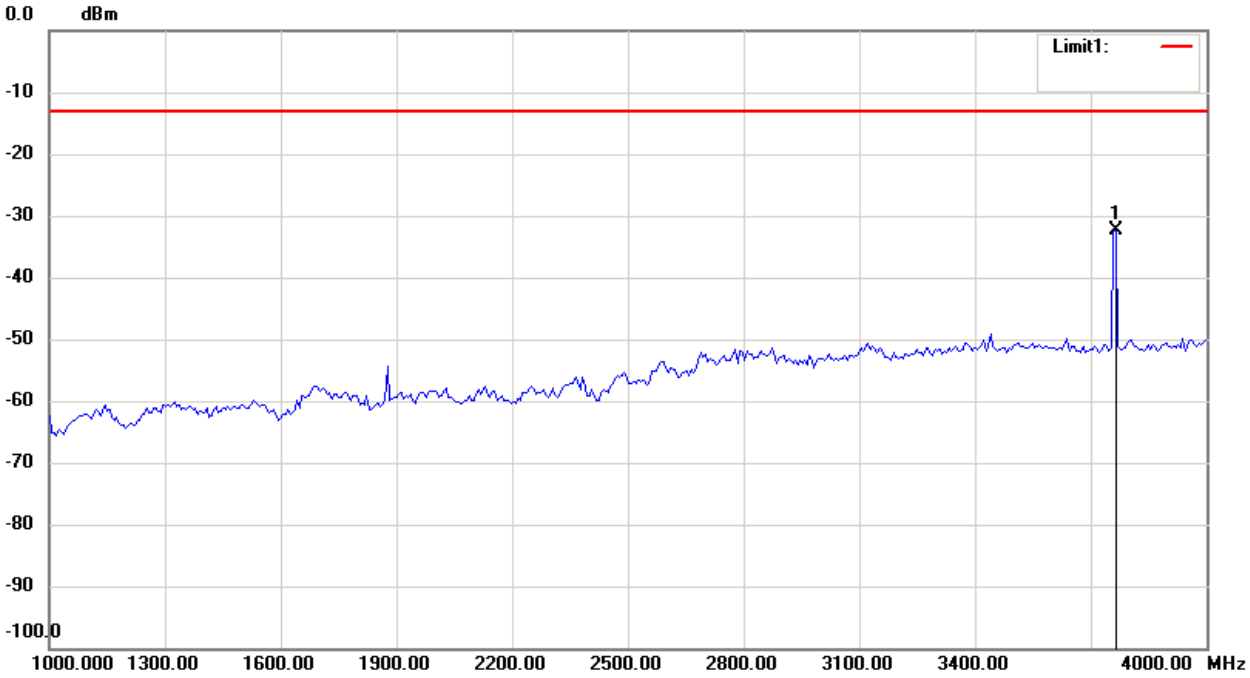
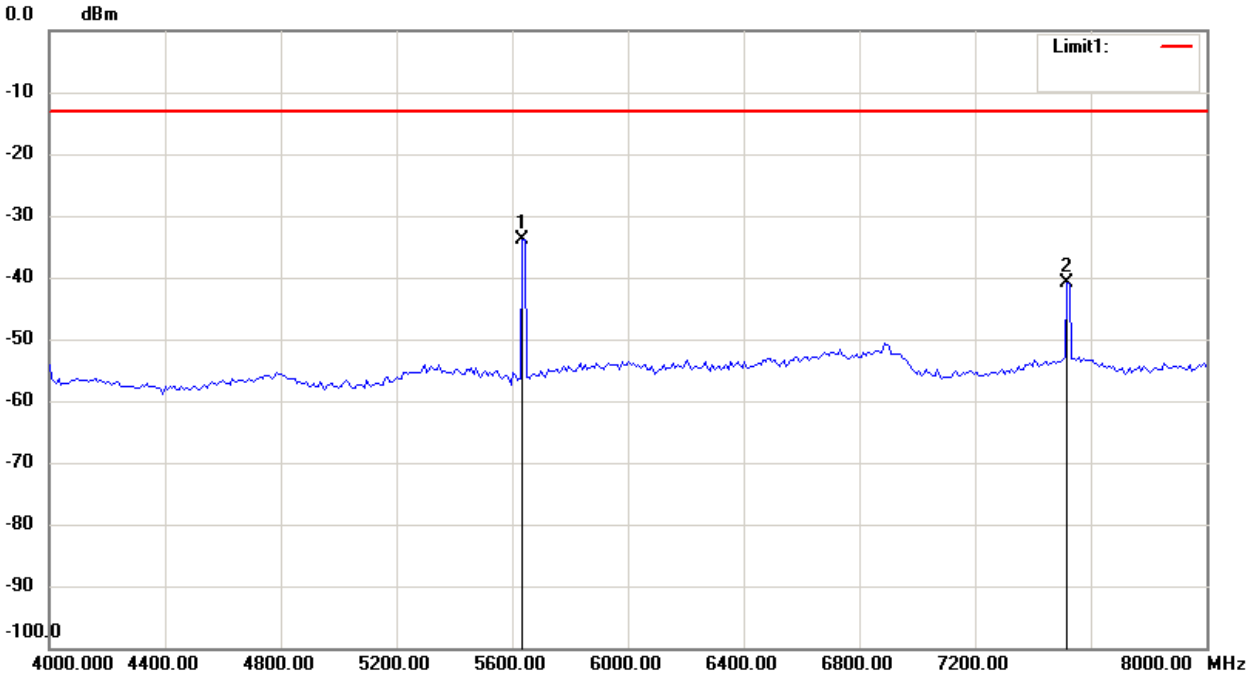
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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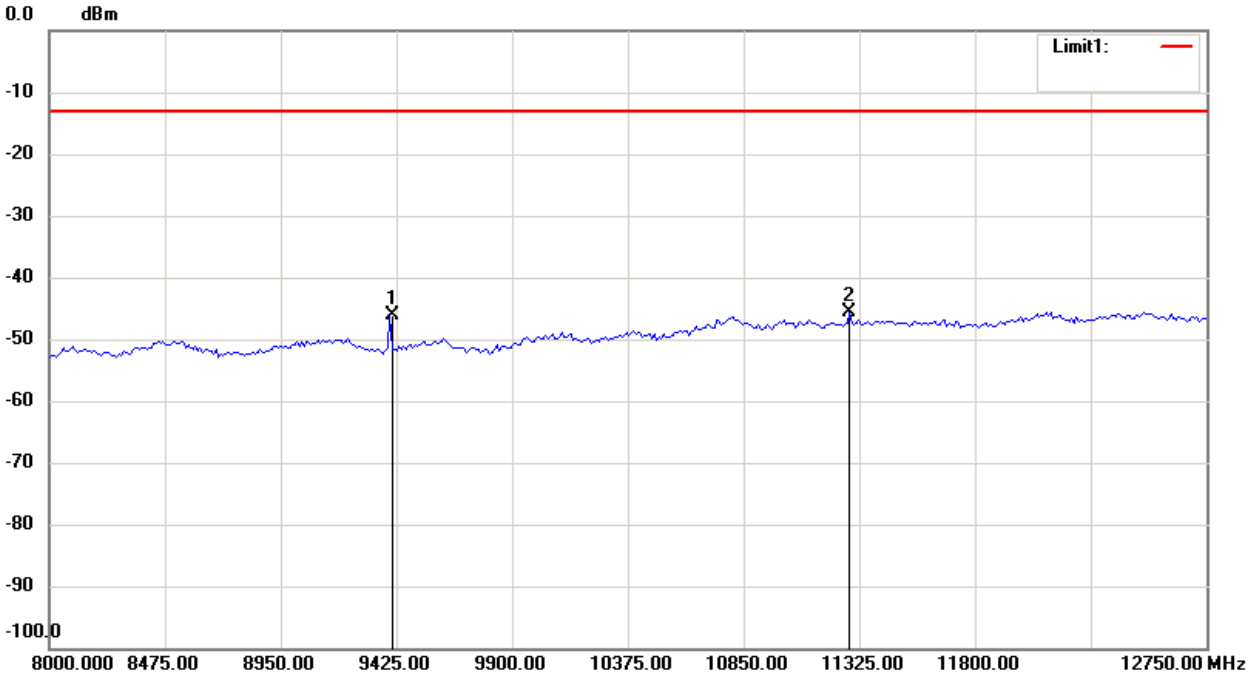

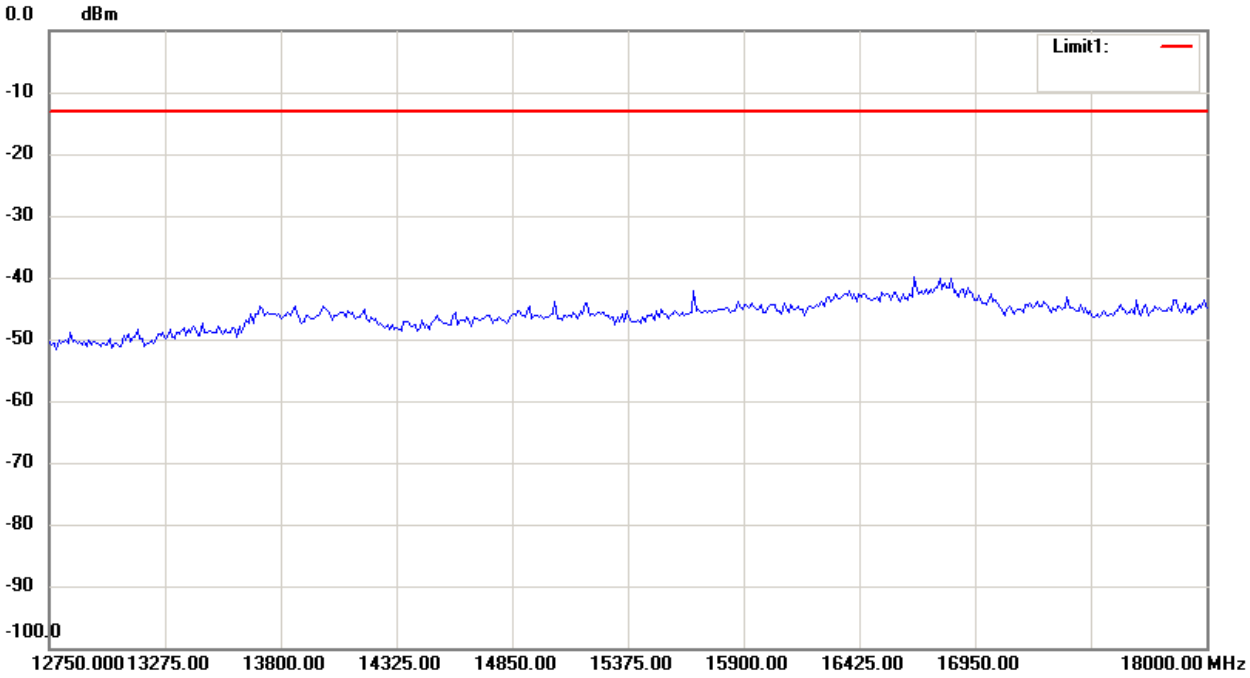

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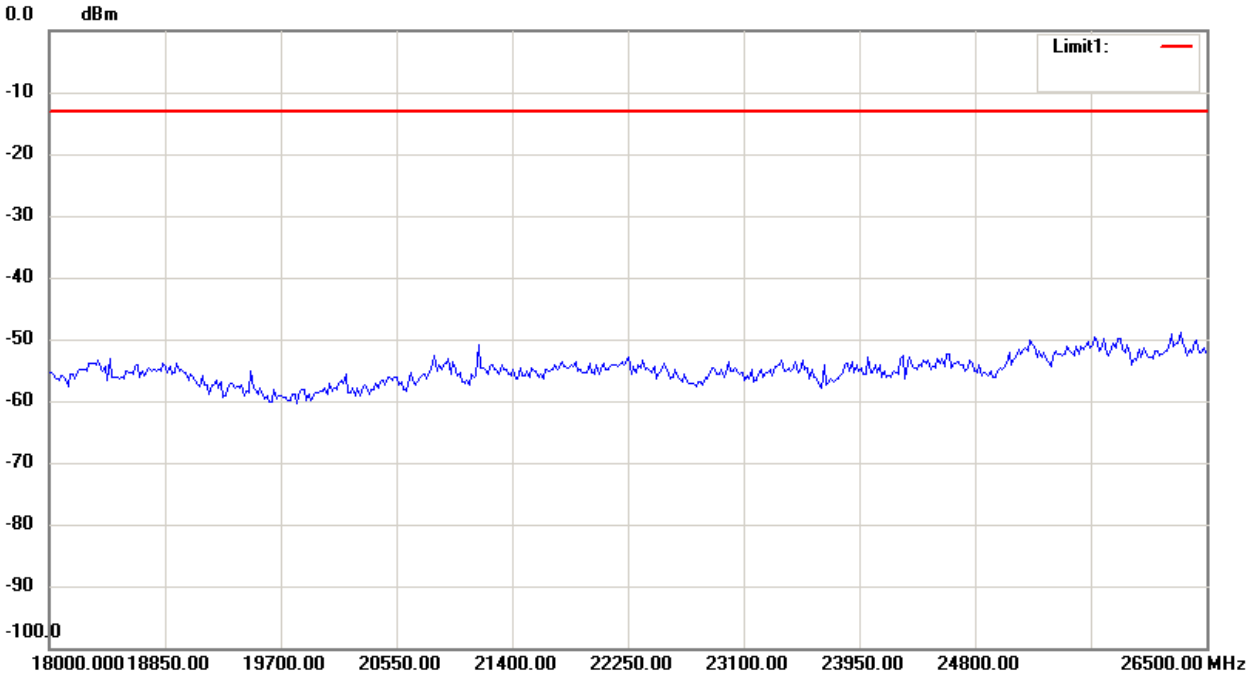
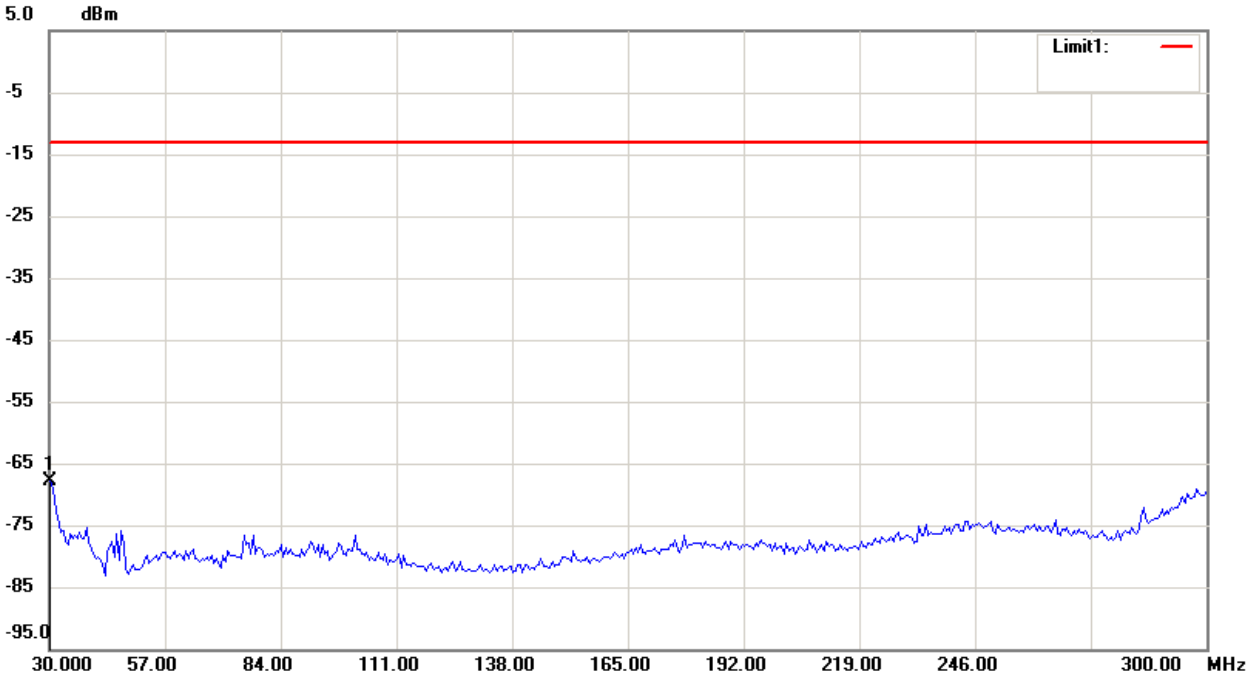


Antenna Polarization V



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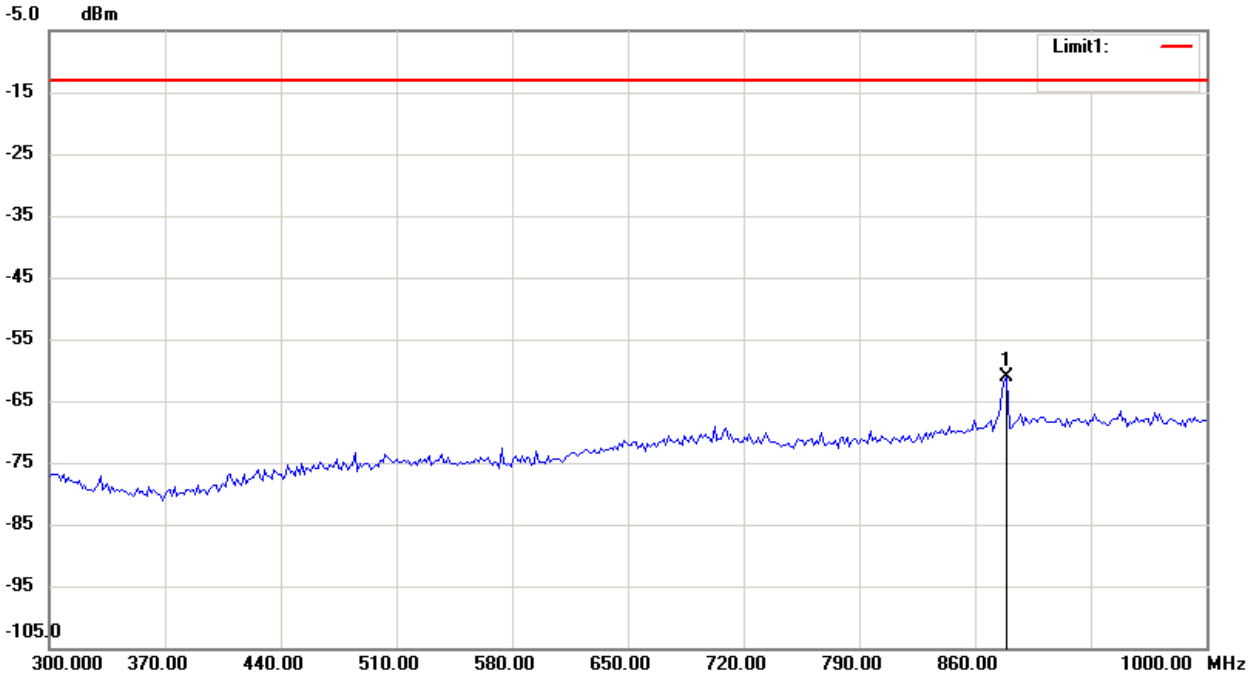

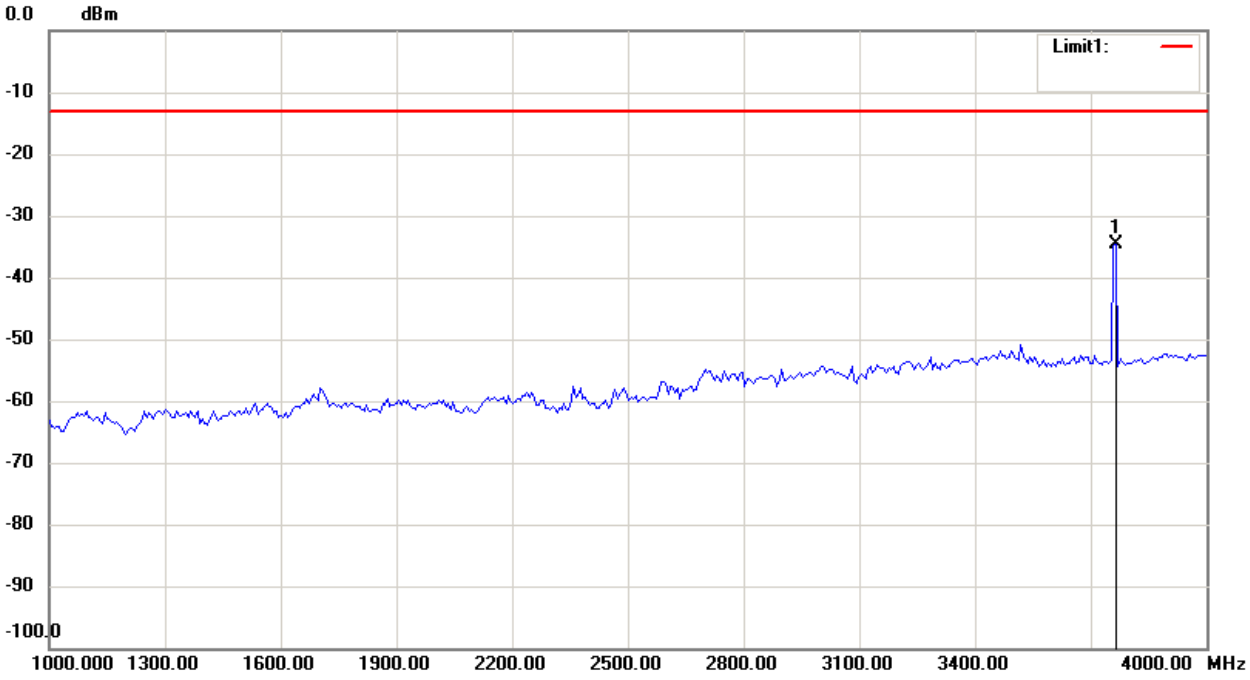

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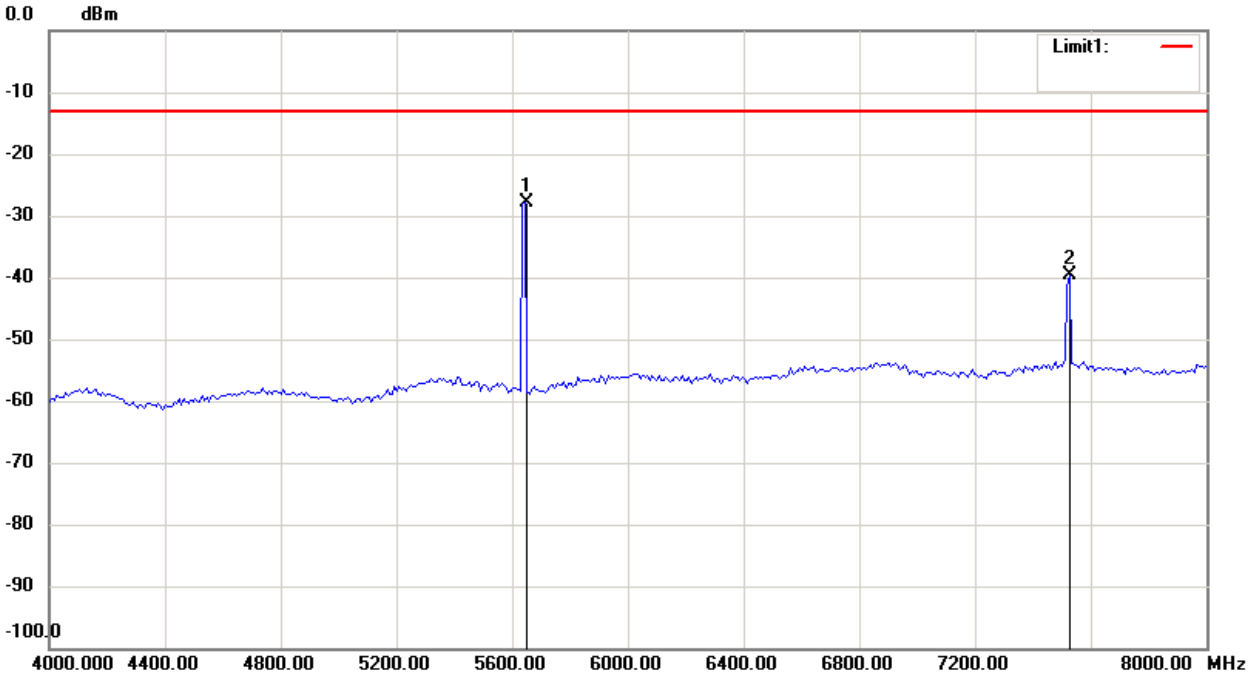

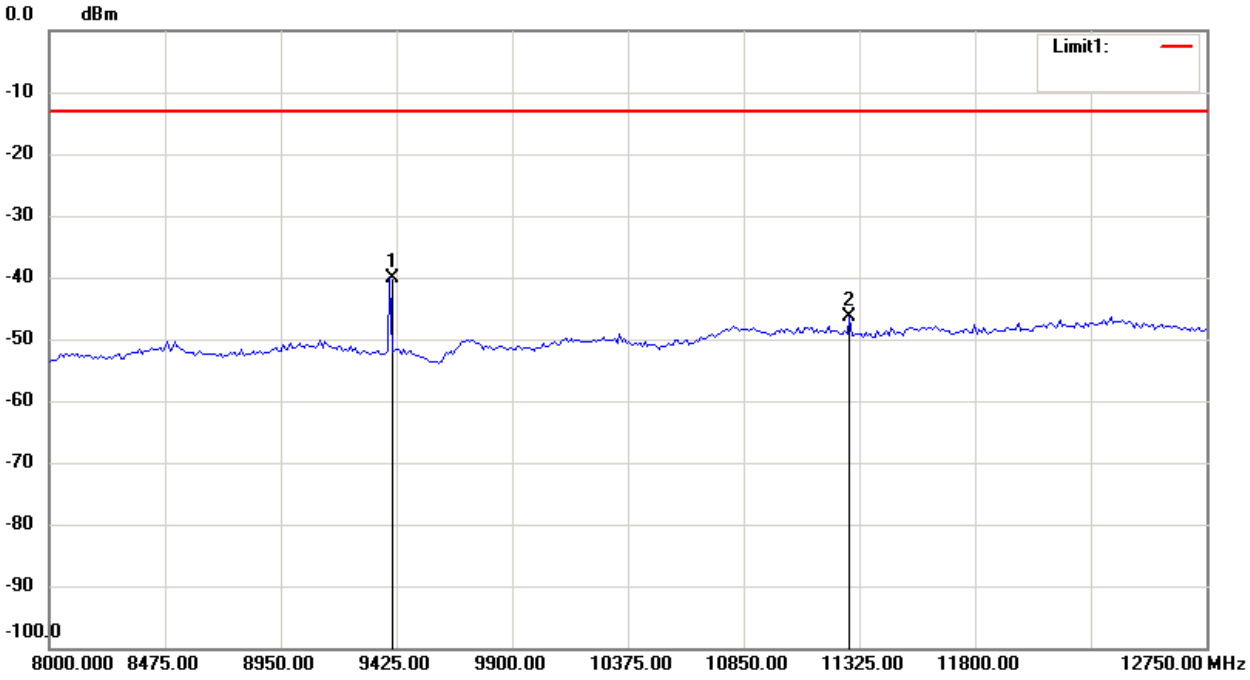

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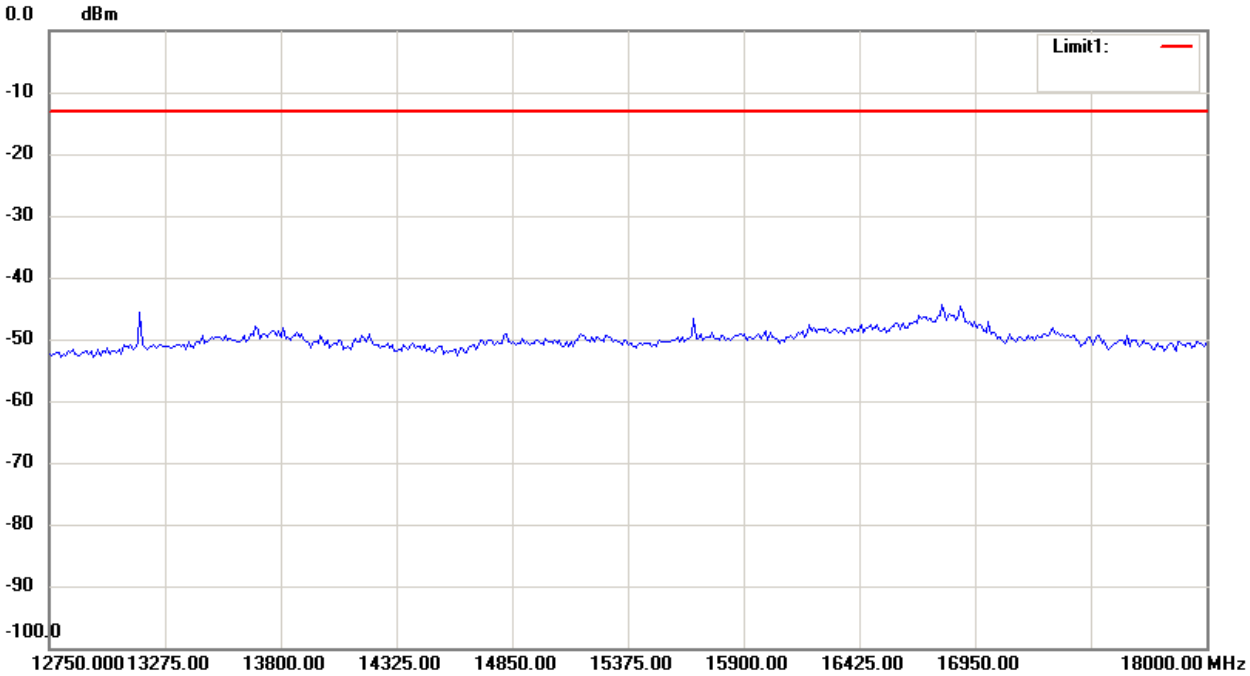

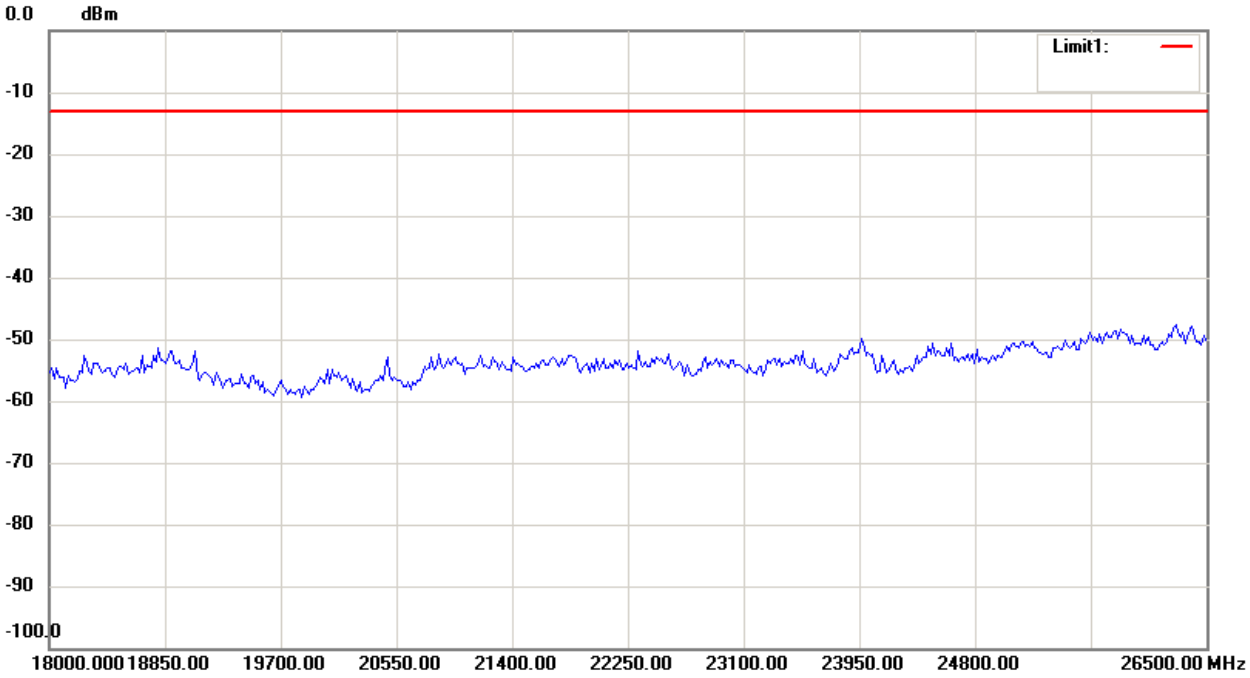

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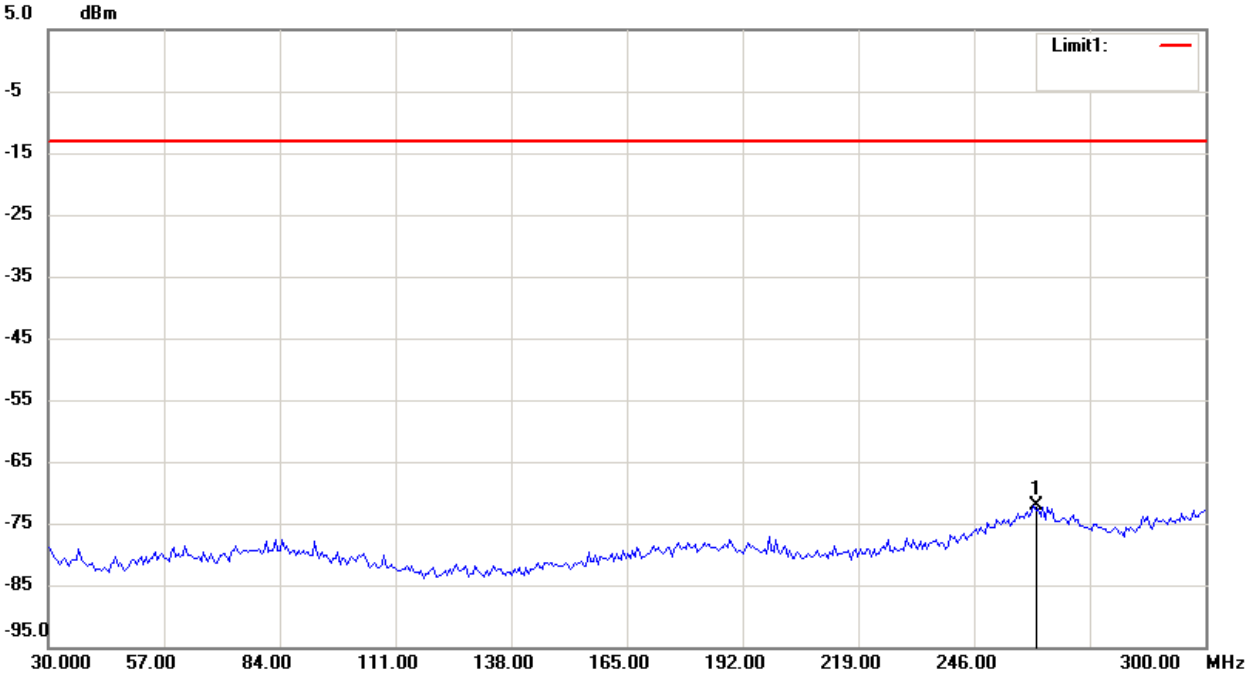
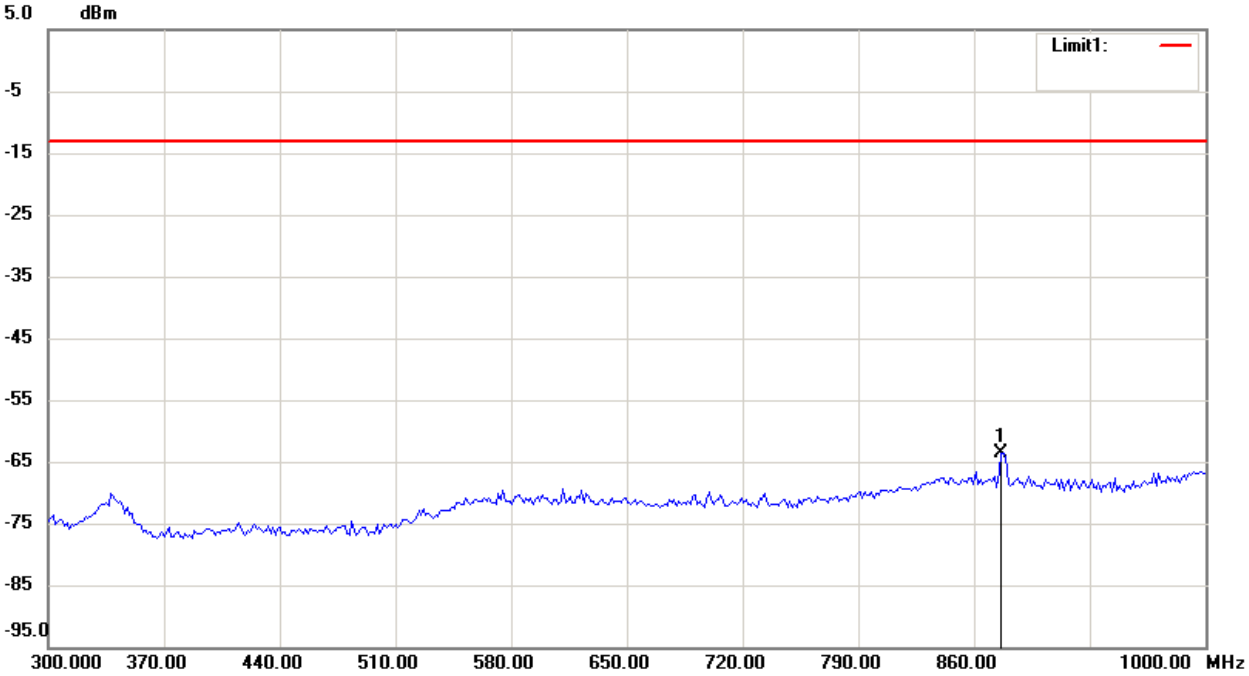
1900 band_ CH 661_3.6 V
Antenna Polarization H





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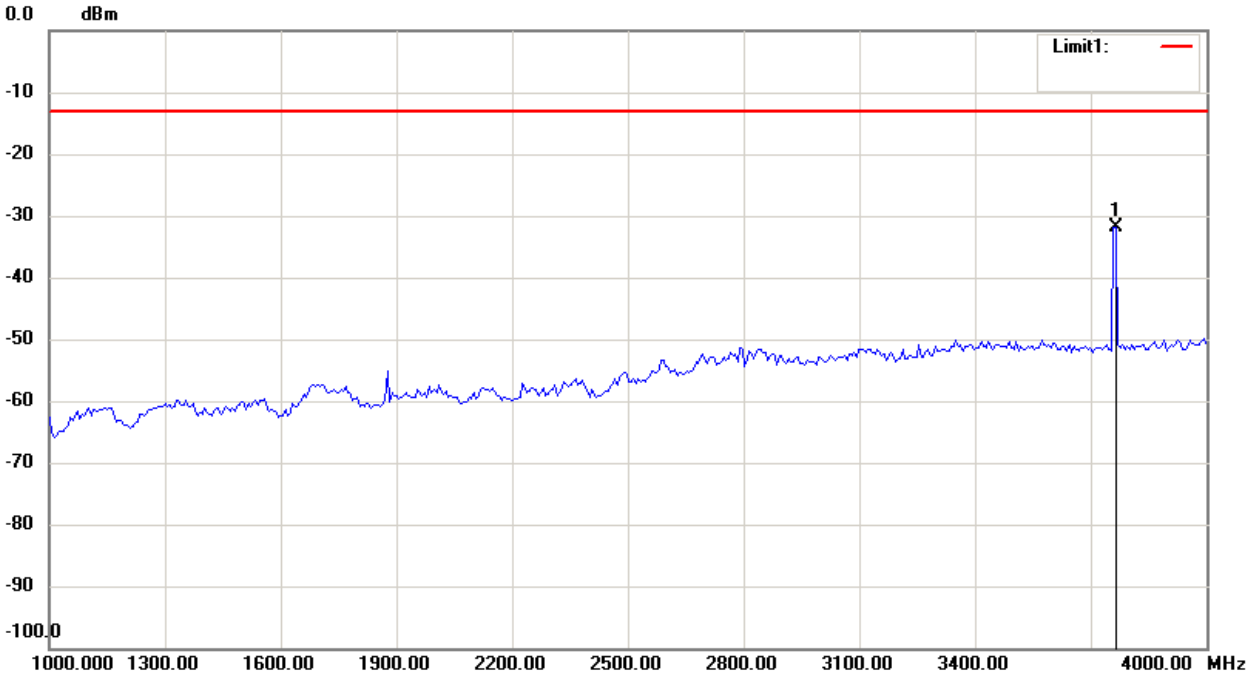

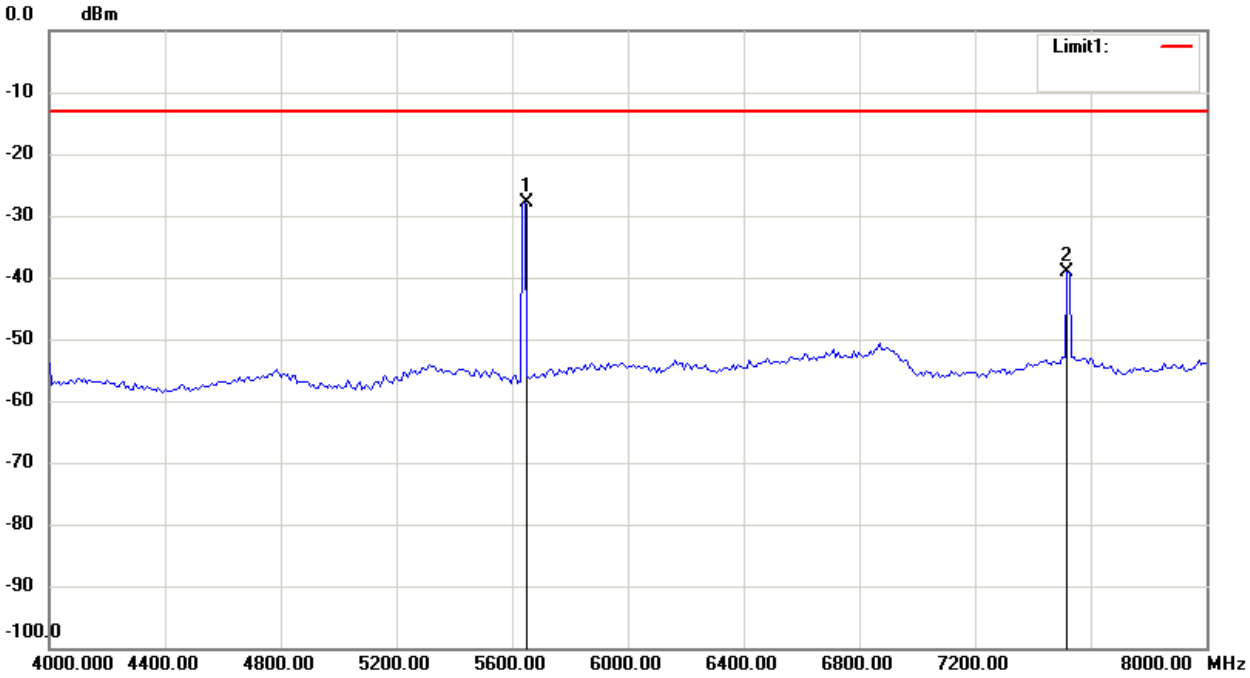

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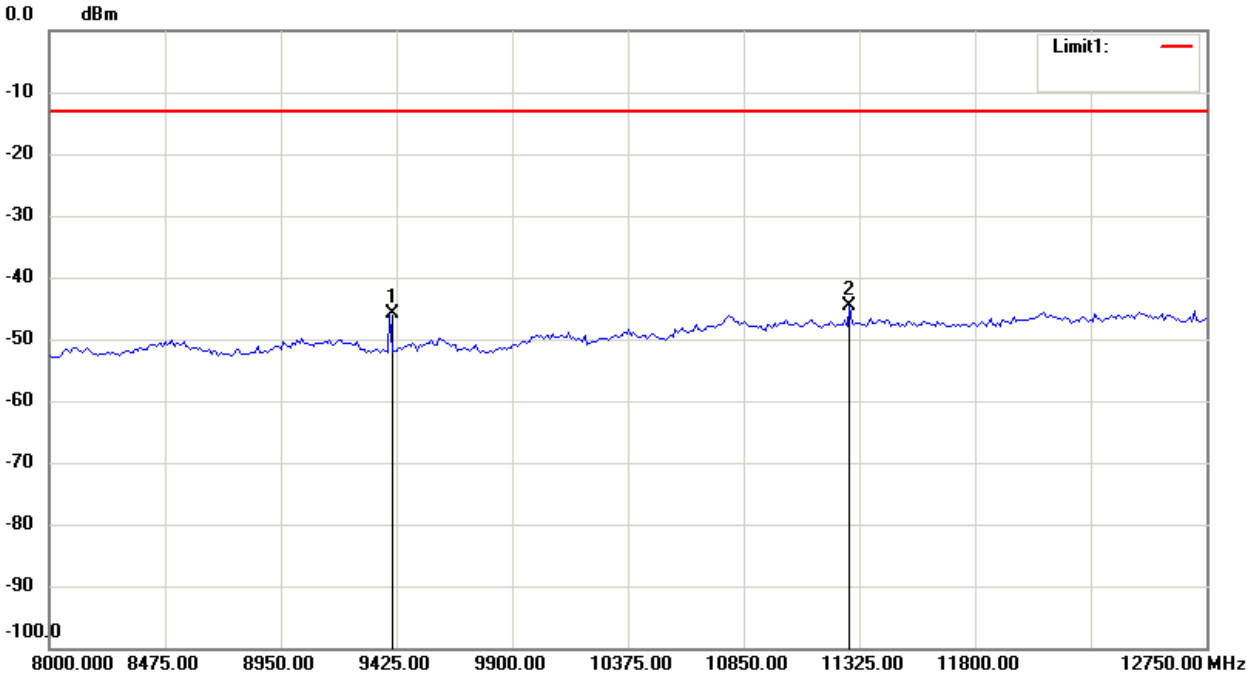

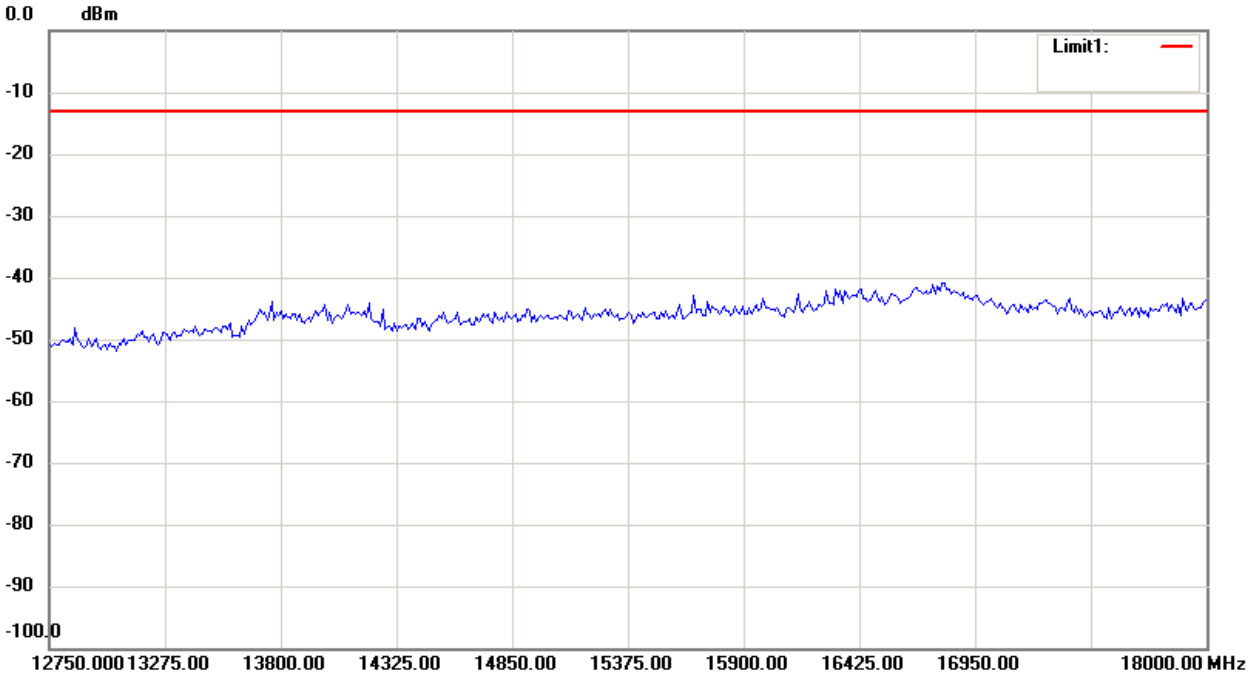

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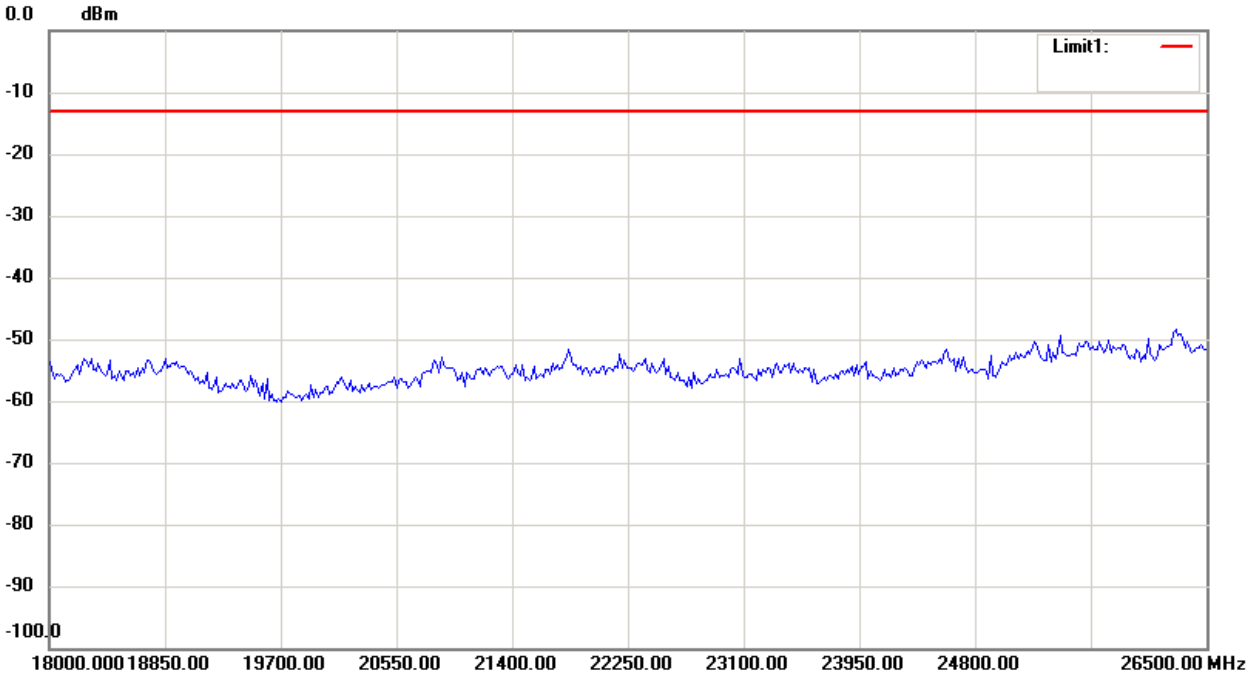
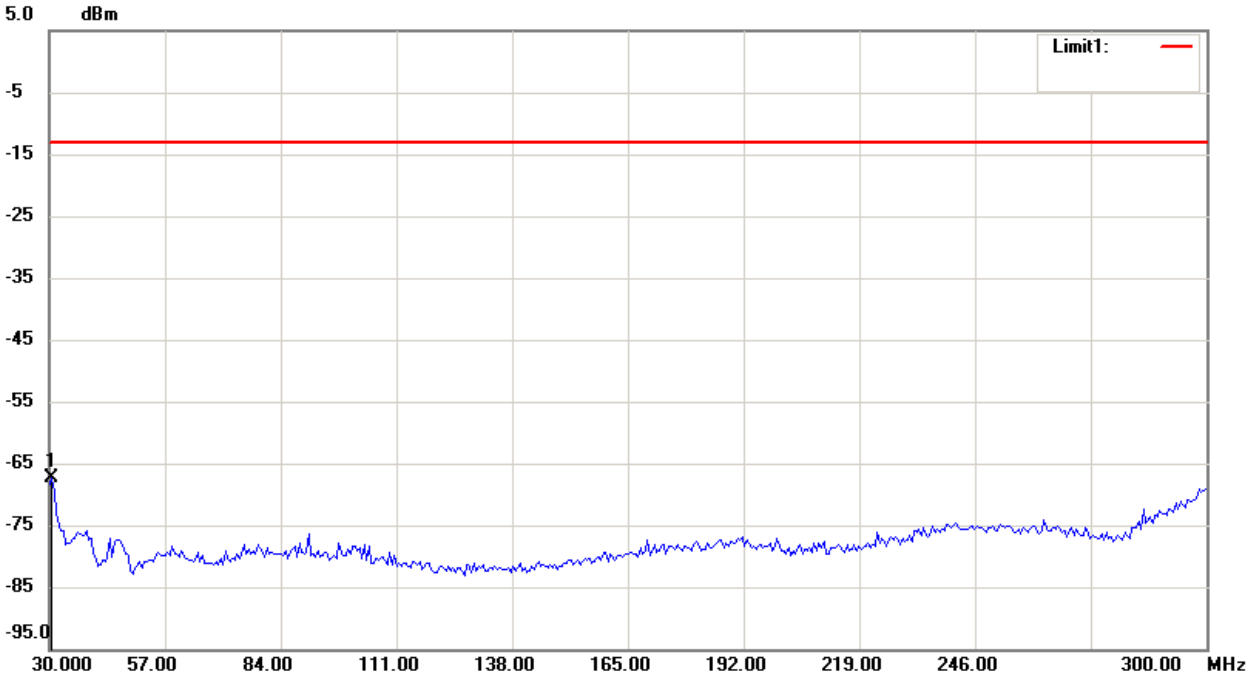


Antenna Polarization V



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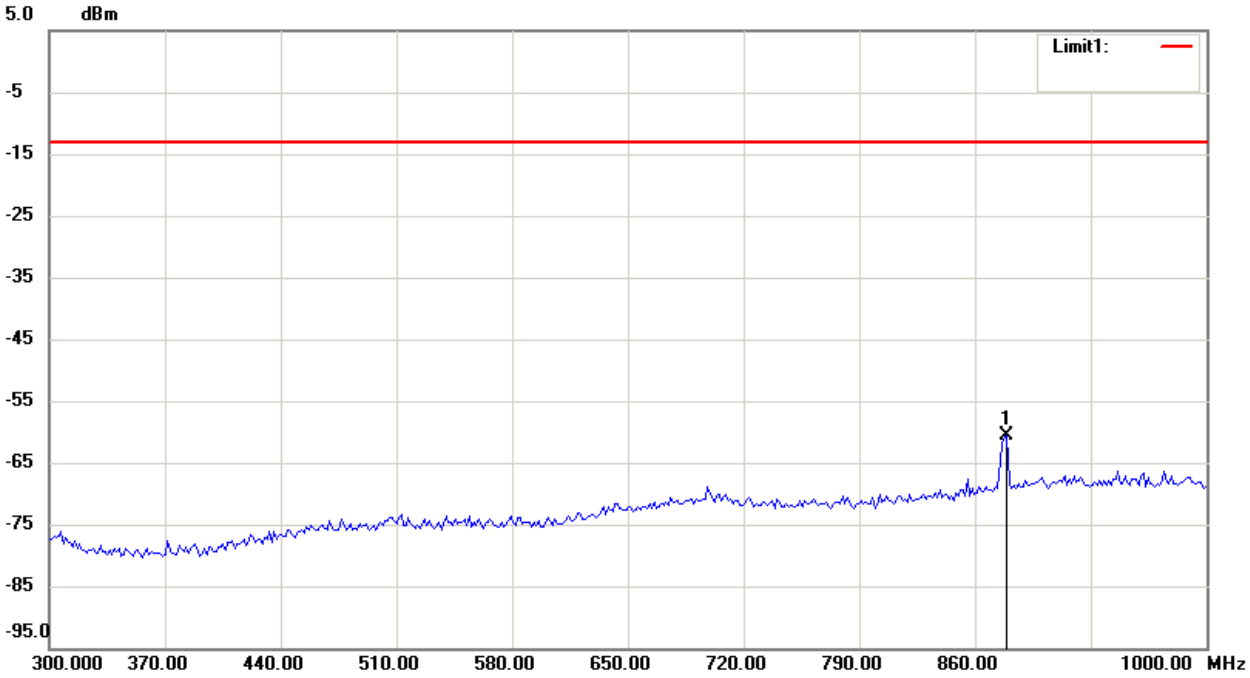

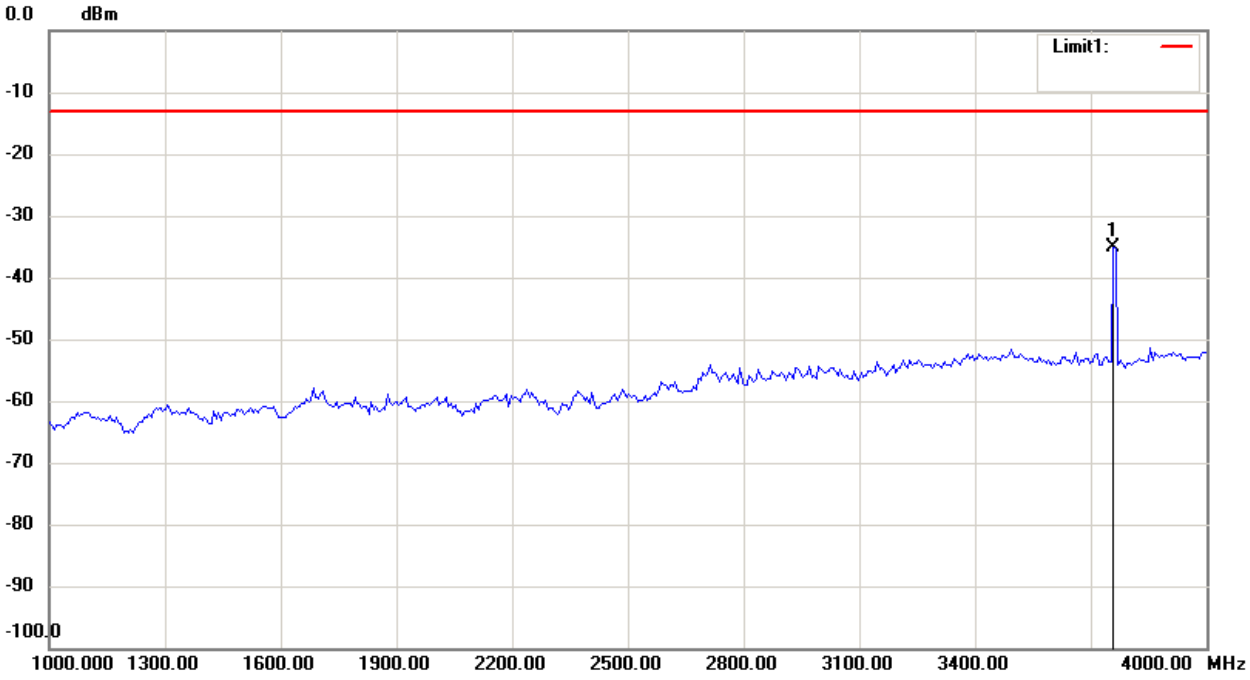

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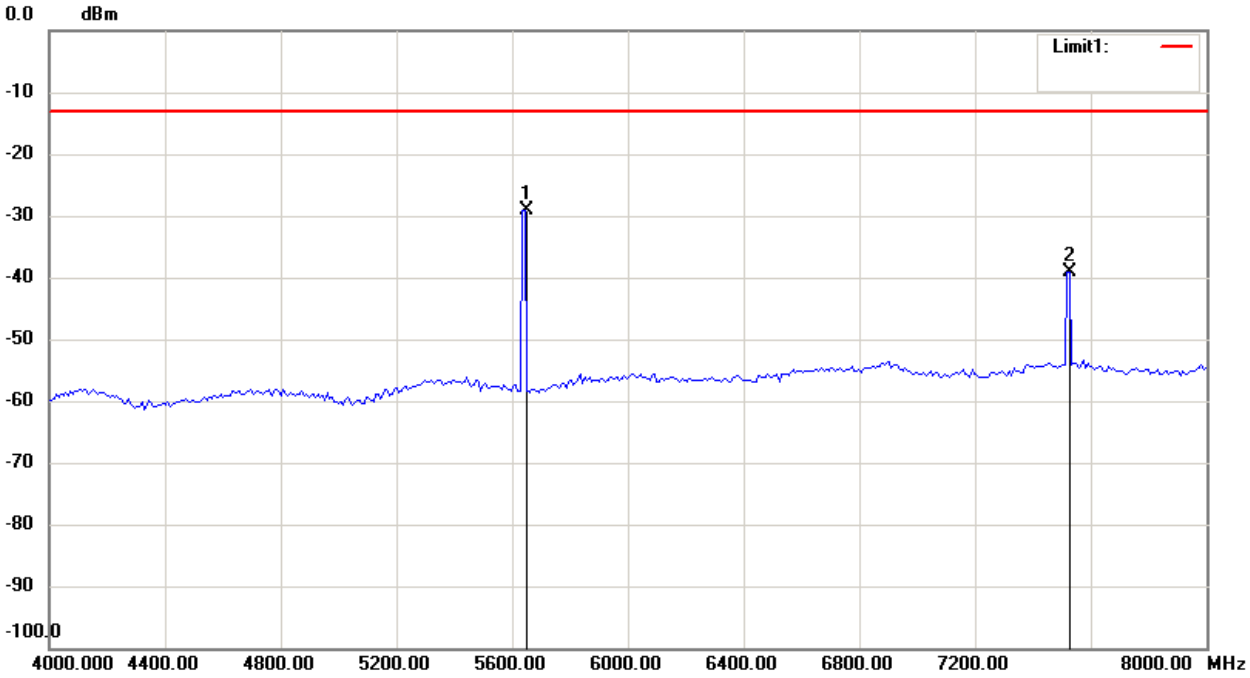
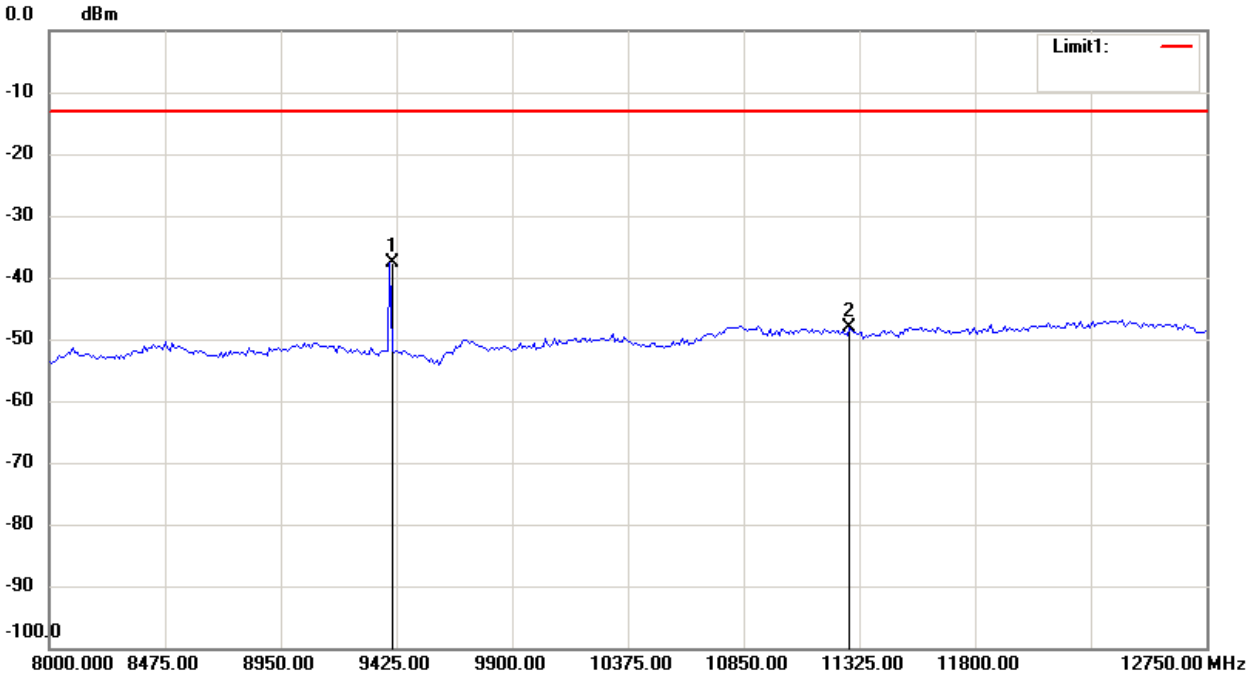
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.**
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





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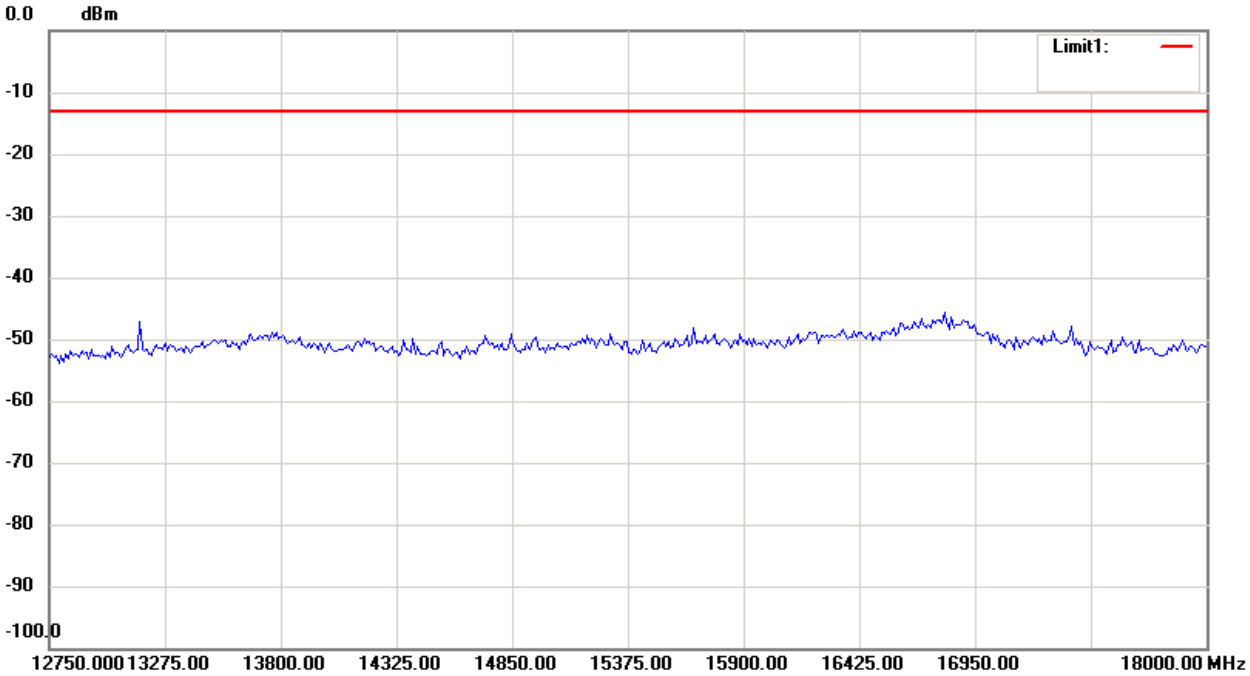

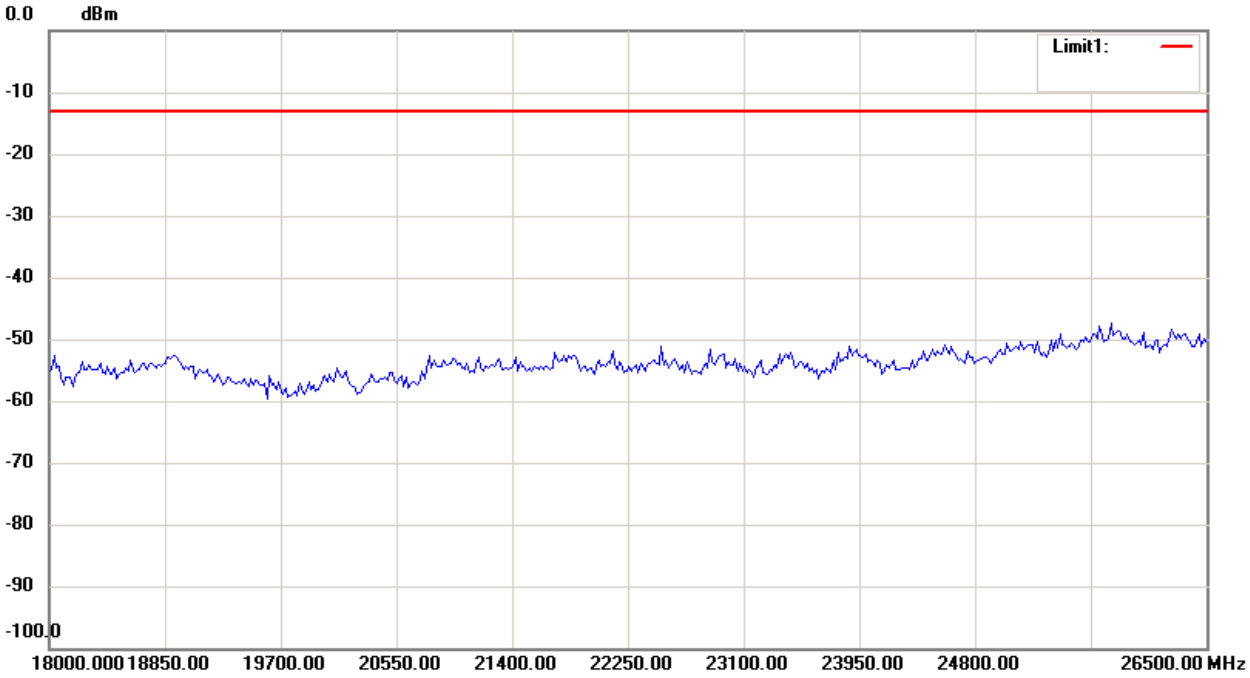

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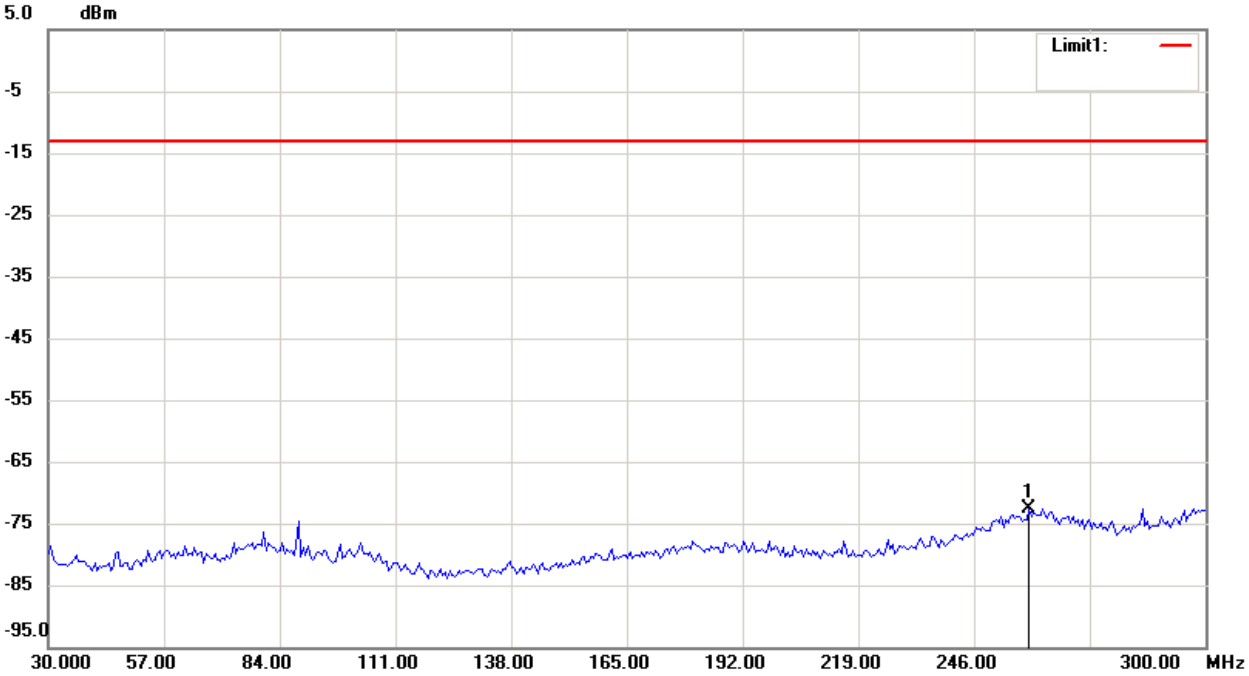
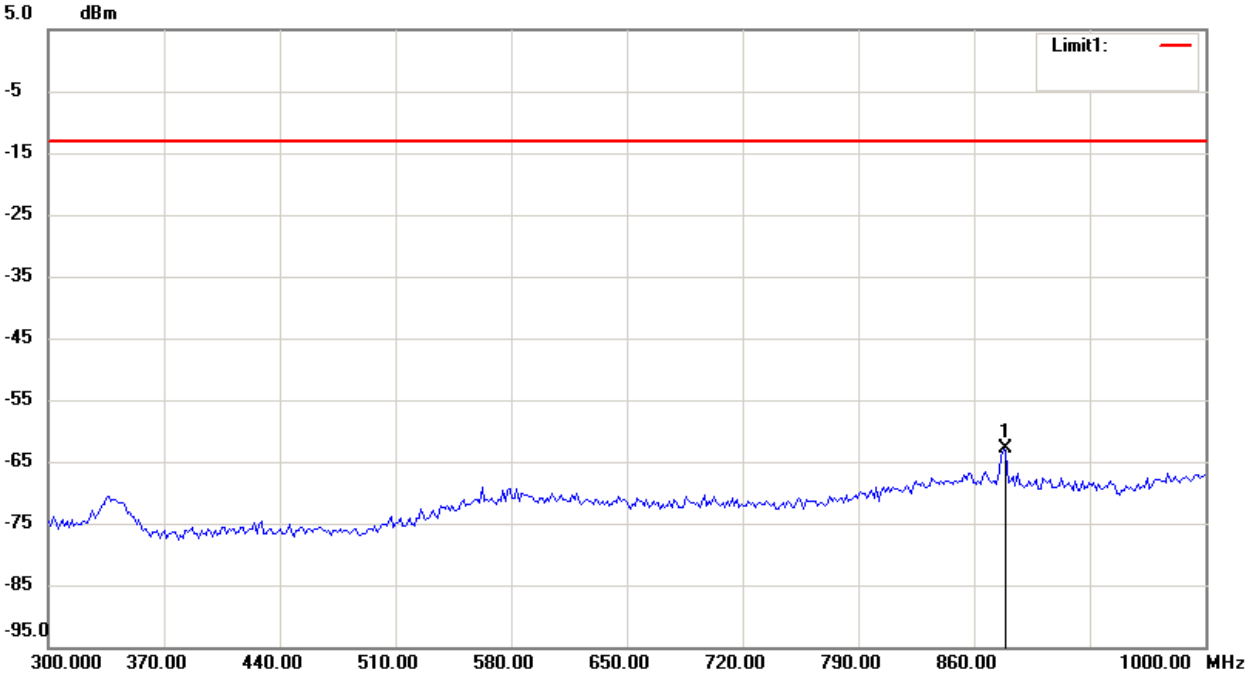
1900 band_ CH 810_3.7 V
Antenna Polarization H





Note:

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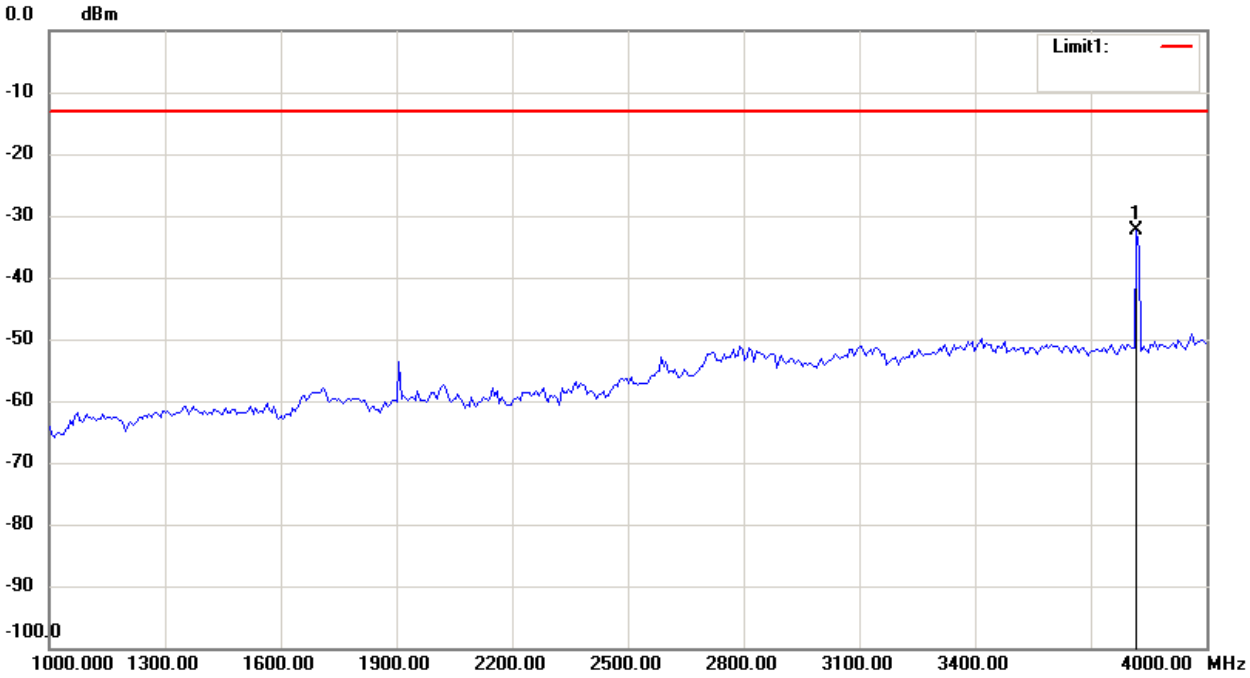

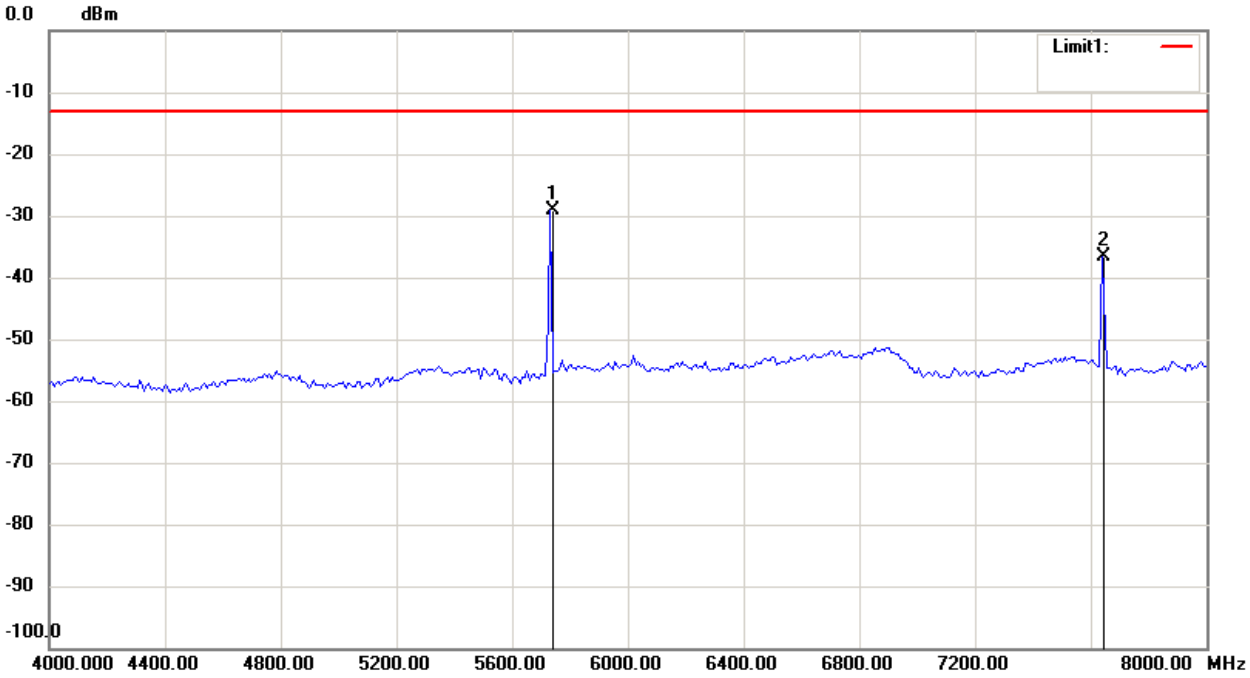

Note:

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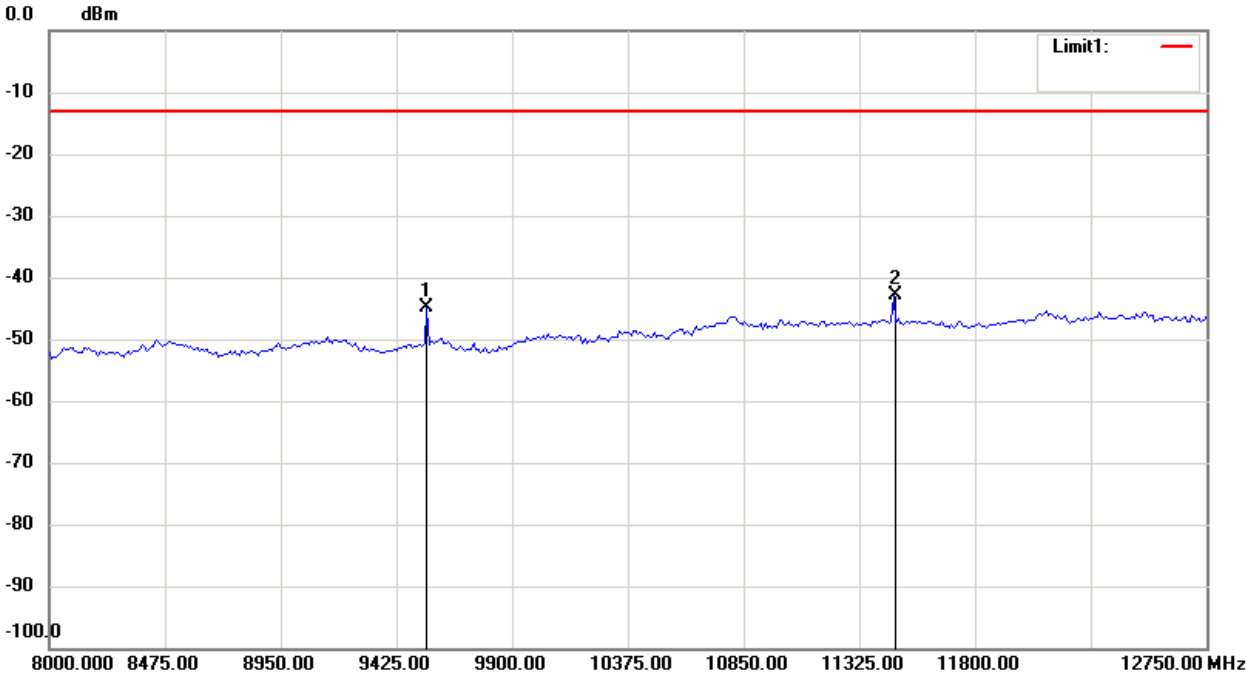

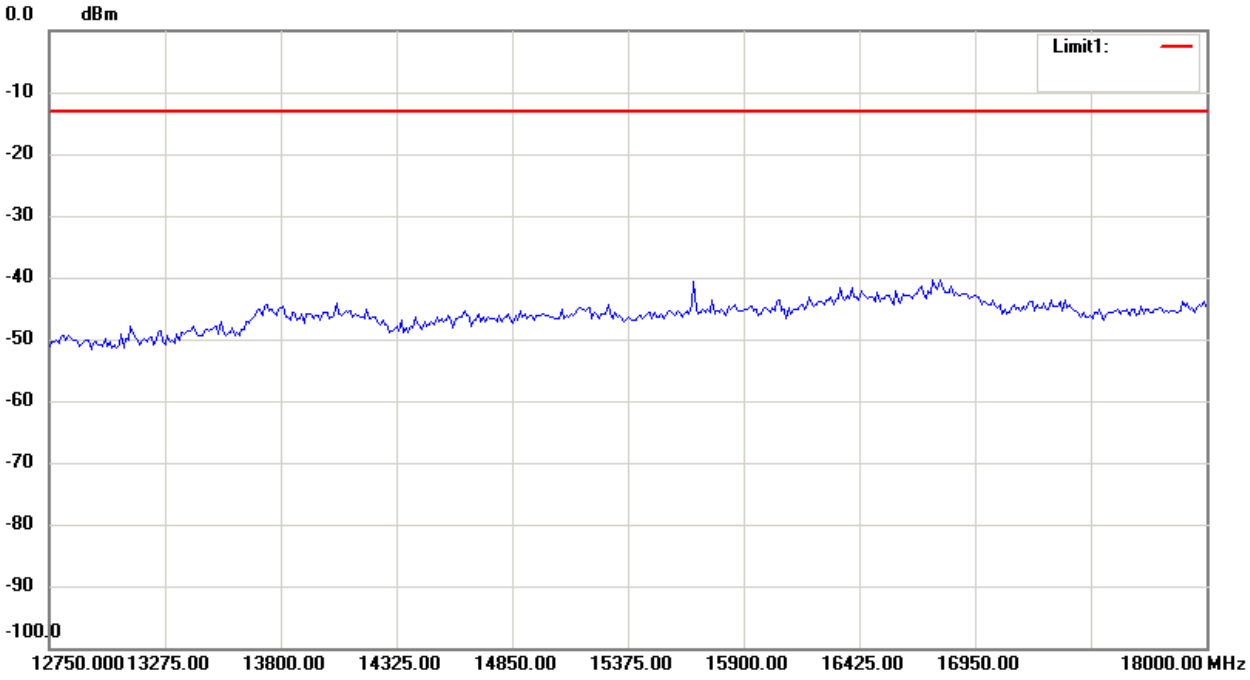

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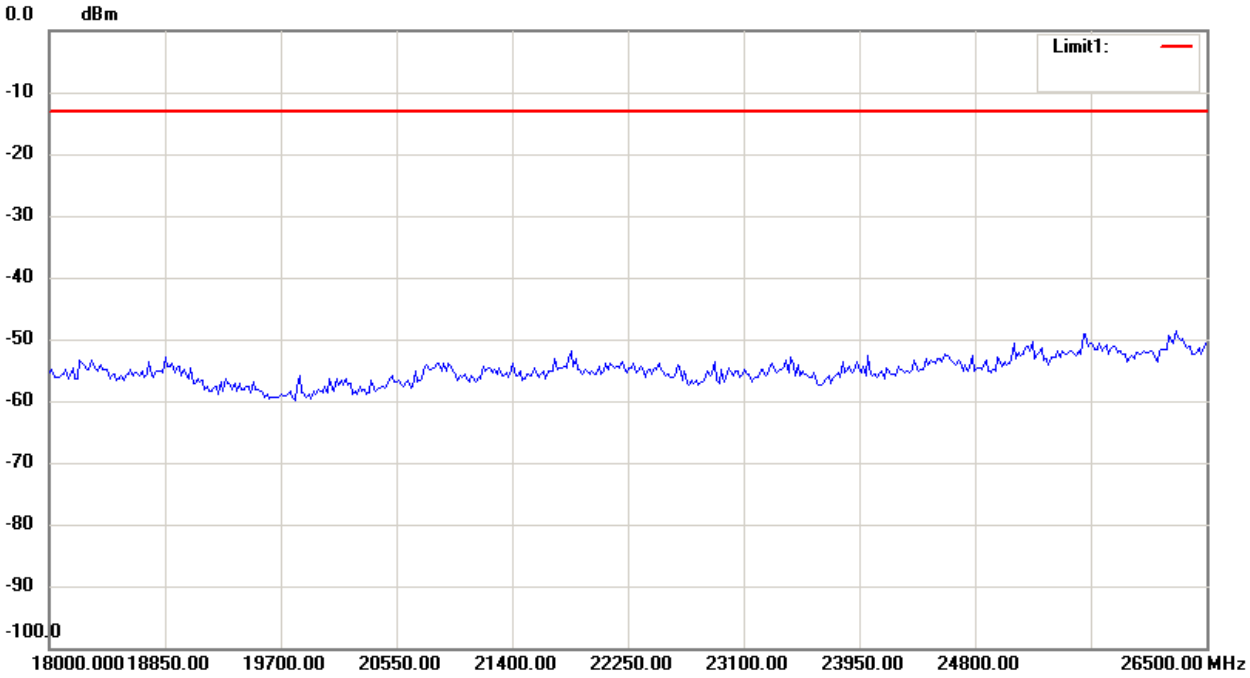
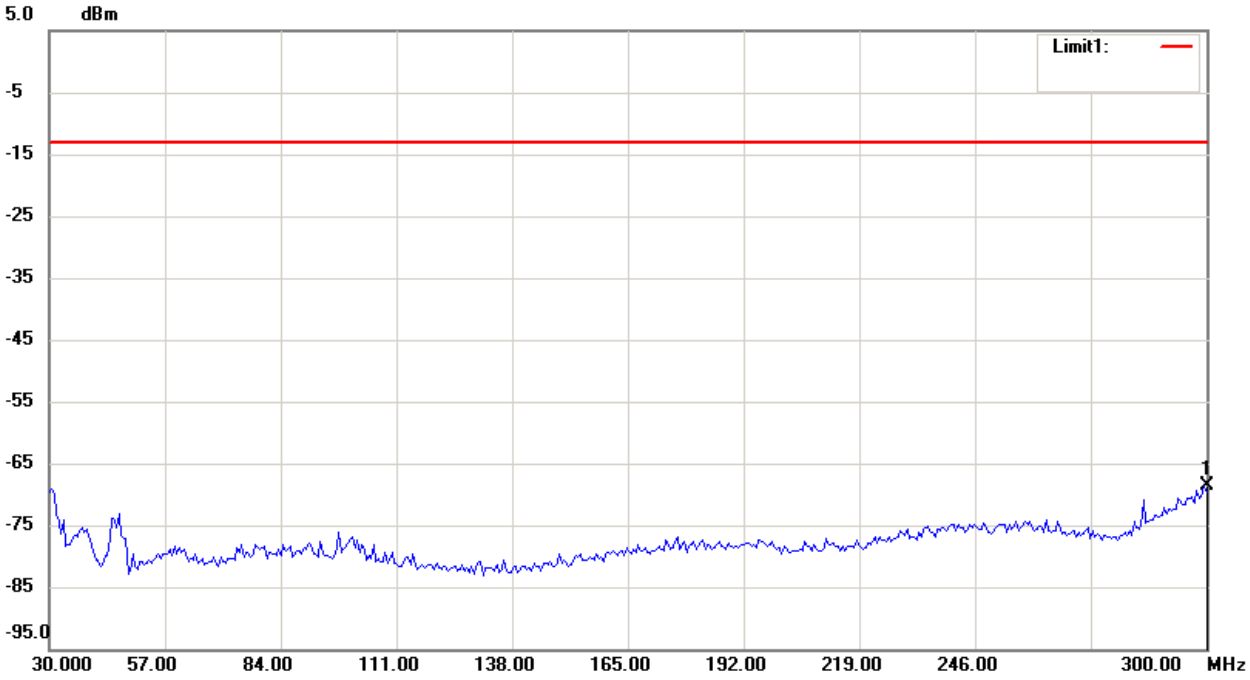


Antenna Polarization V



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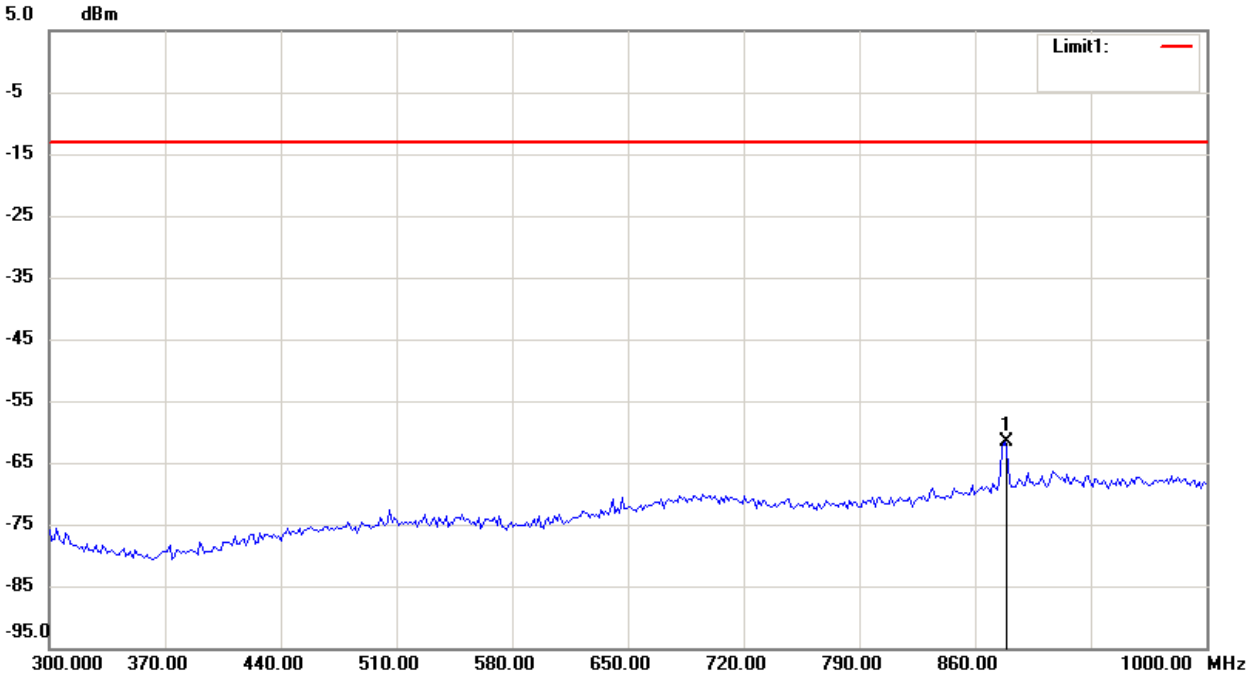

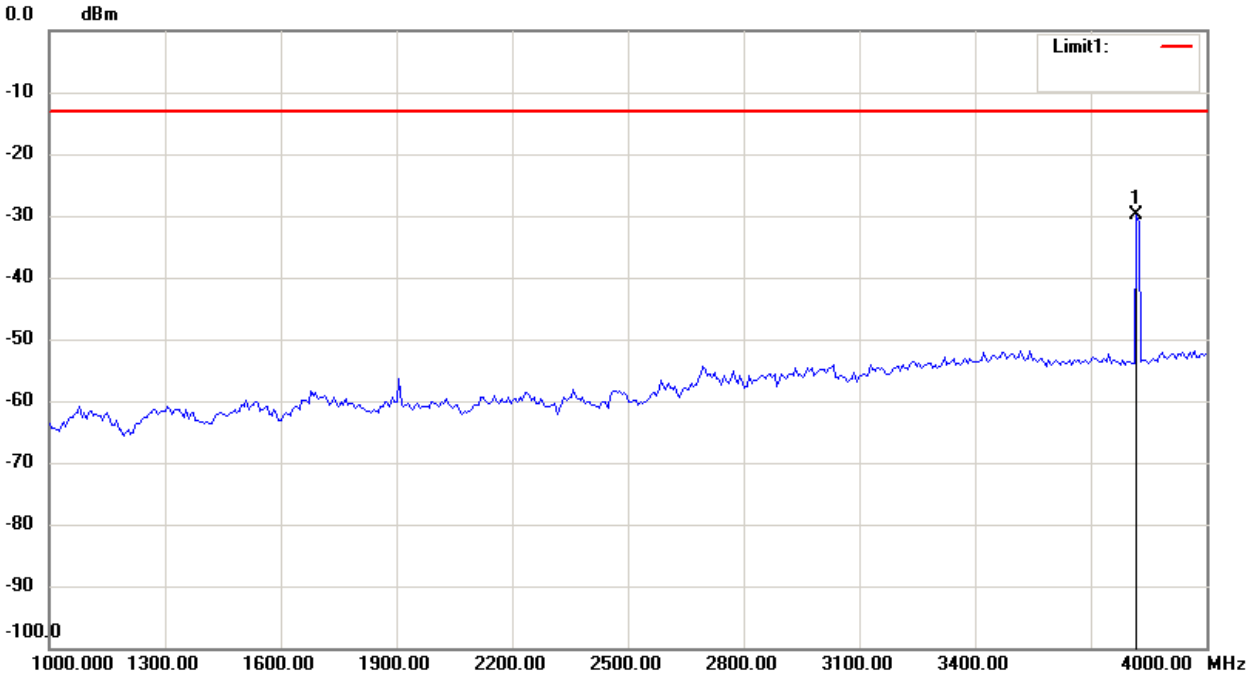

Note:

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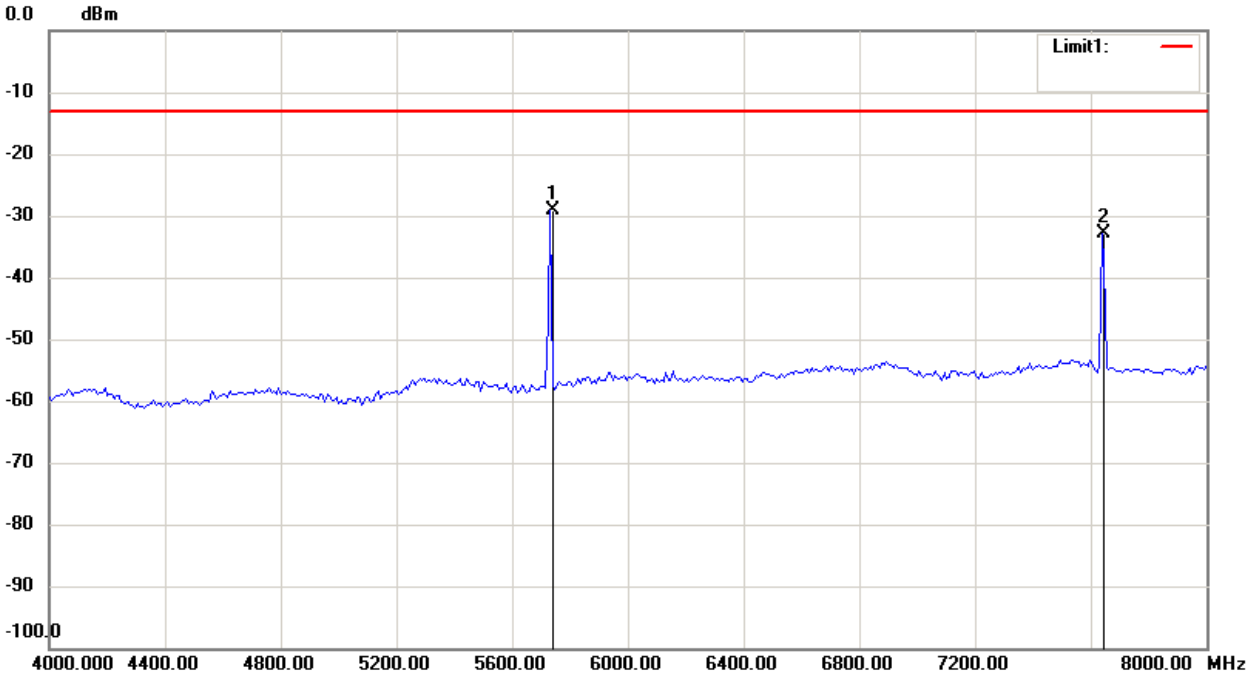

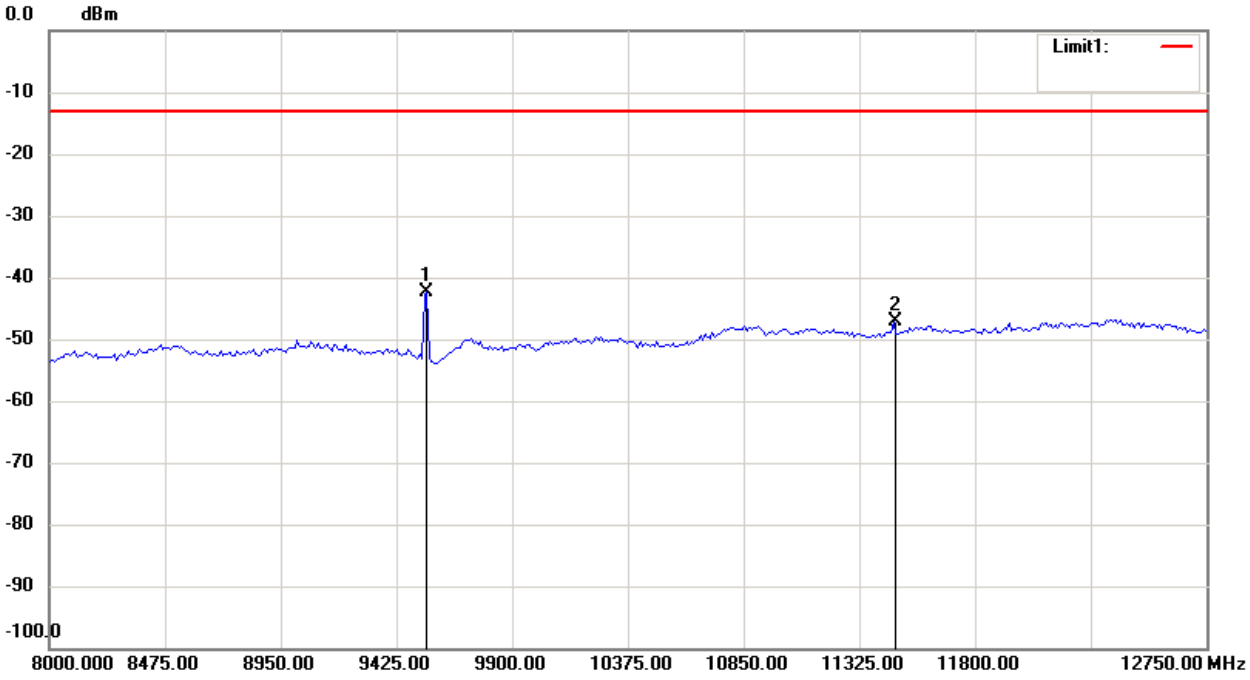

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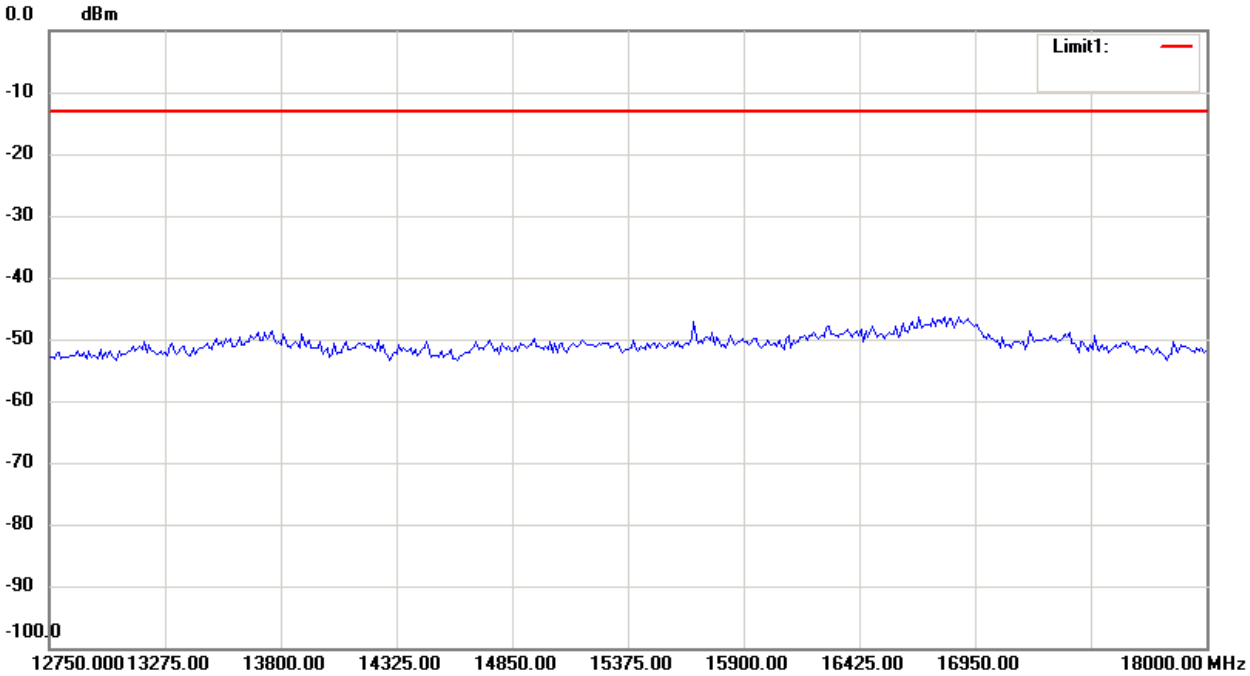

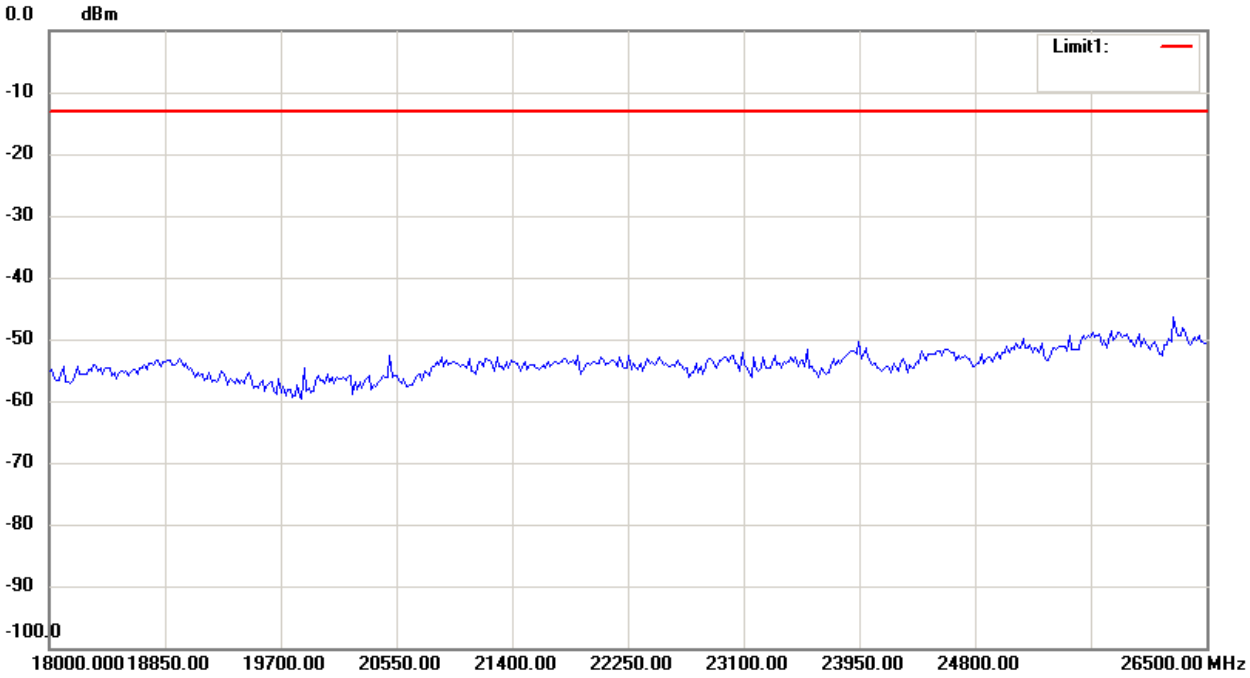

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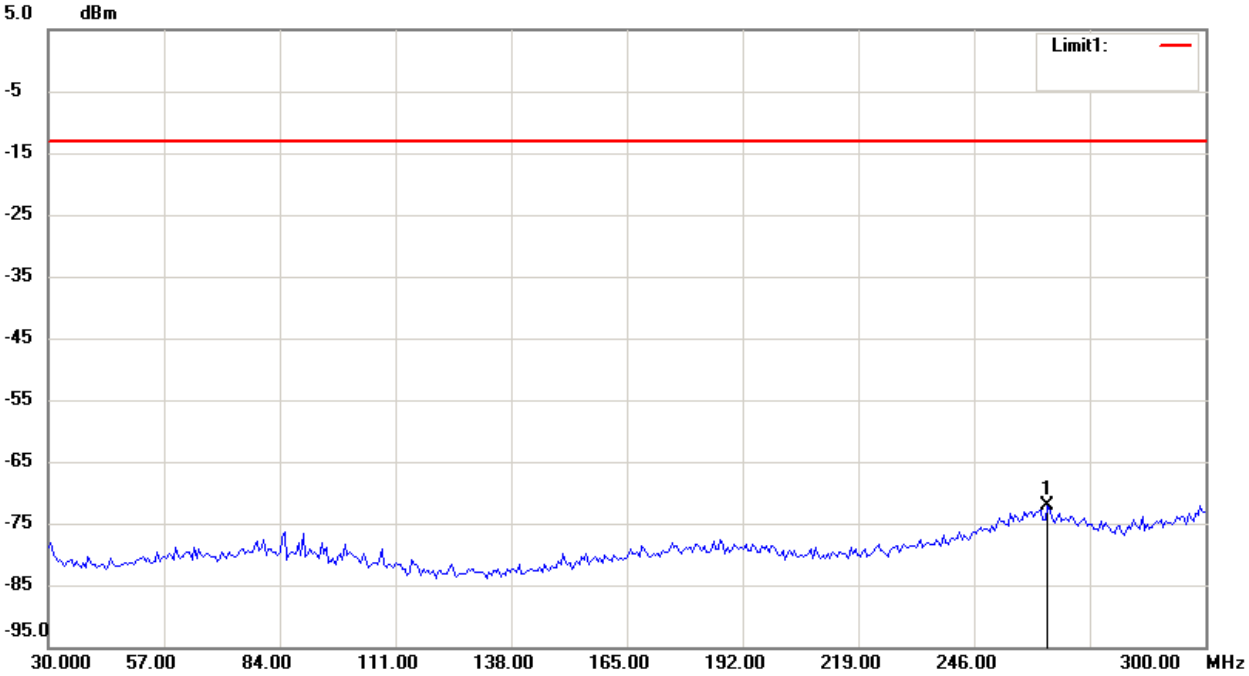
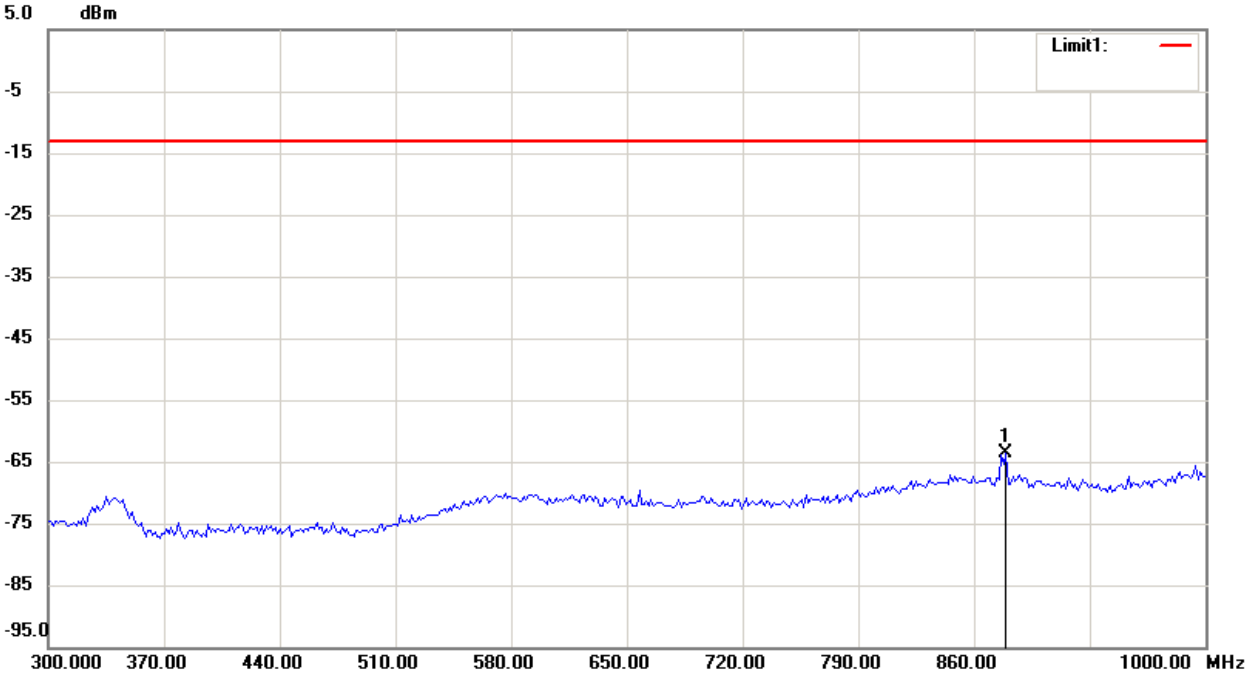
1900 band_ CH 810_3.6 V
Antenna Polarization H





Note:

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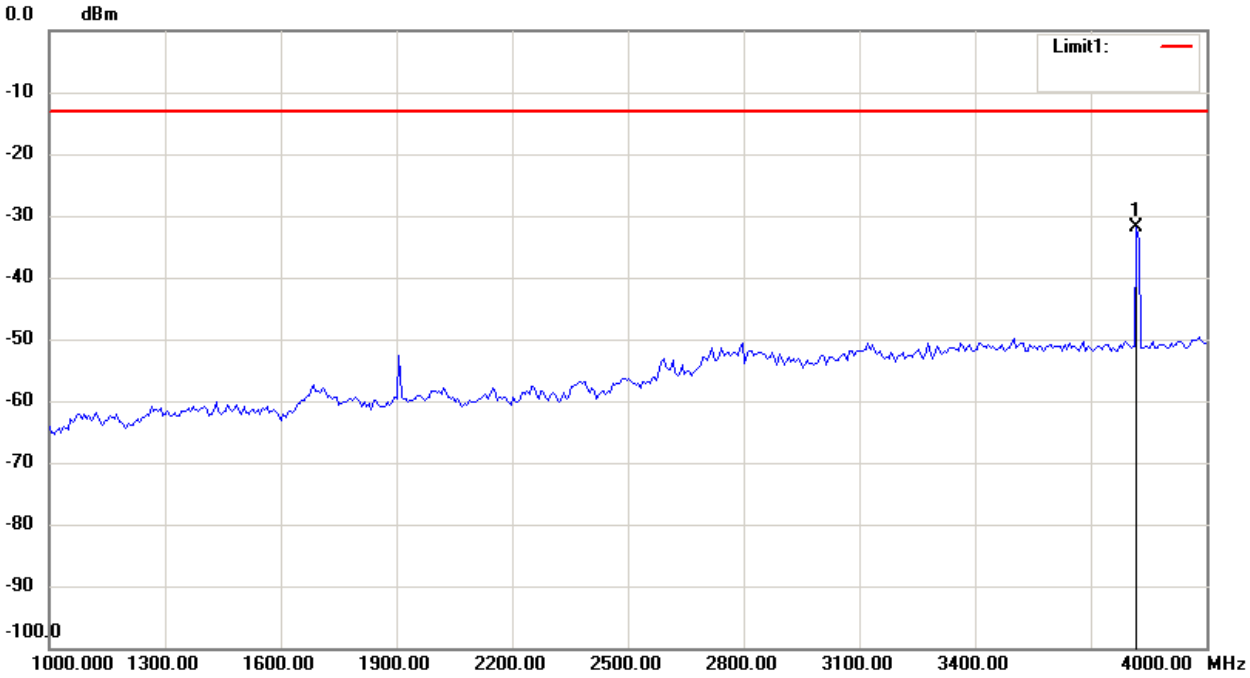
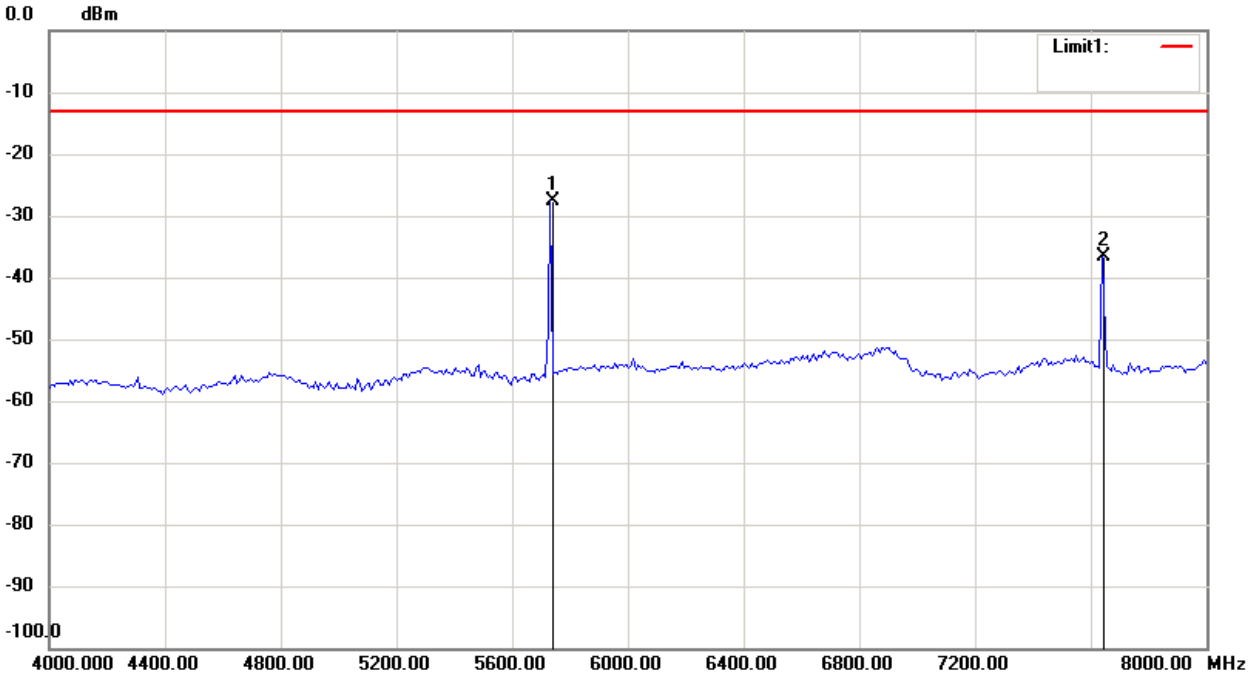
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**





Note:

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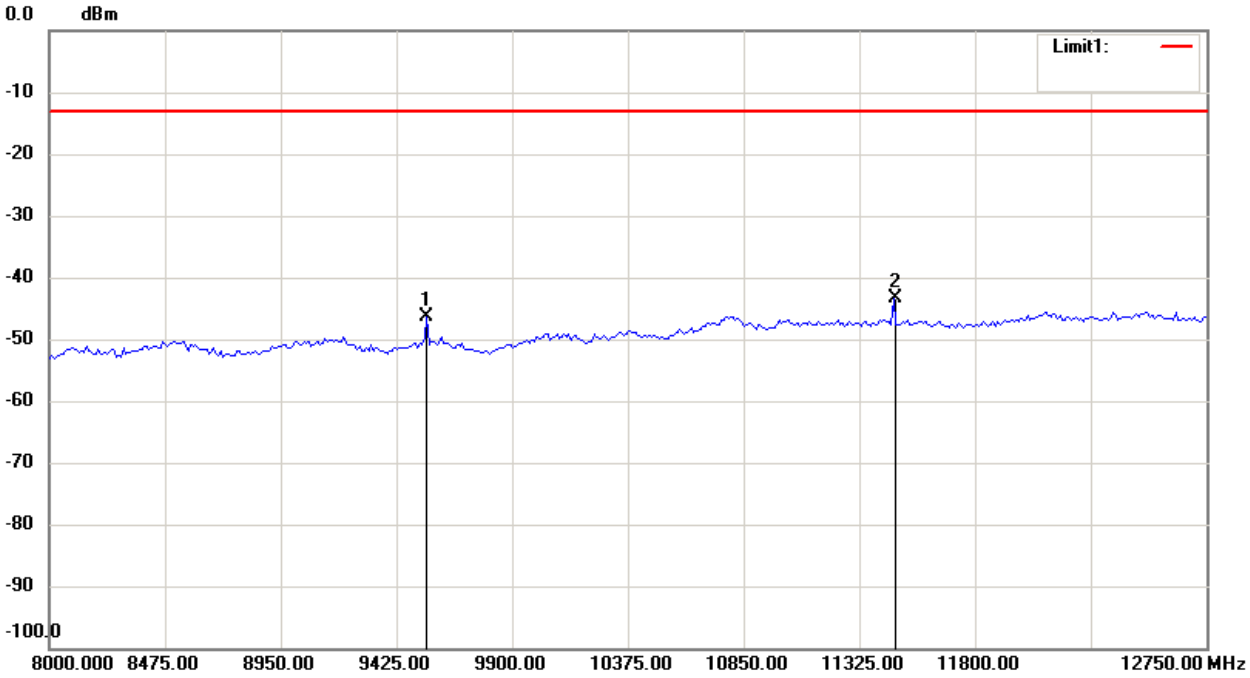

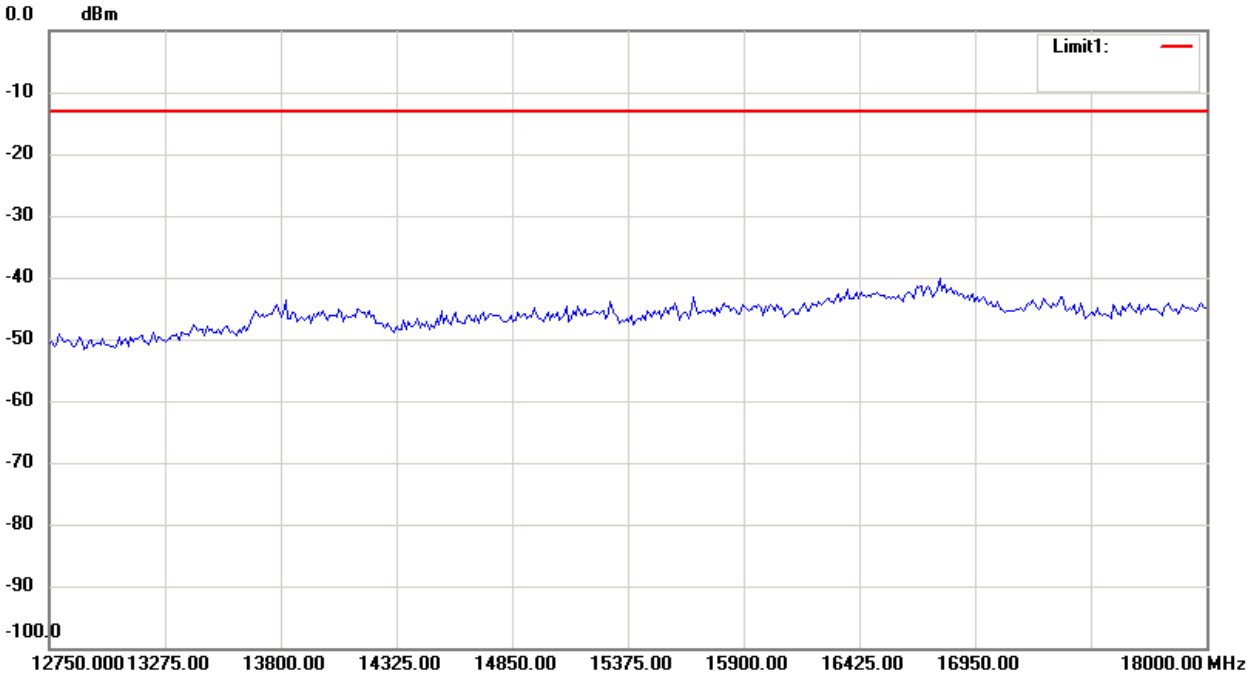

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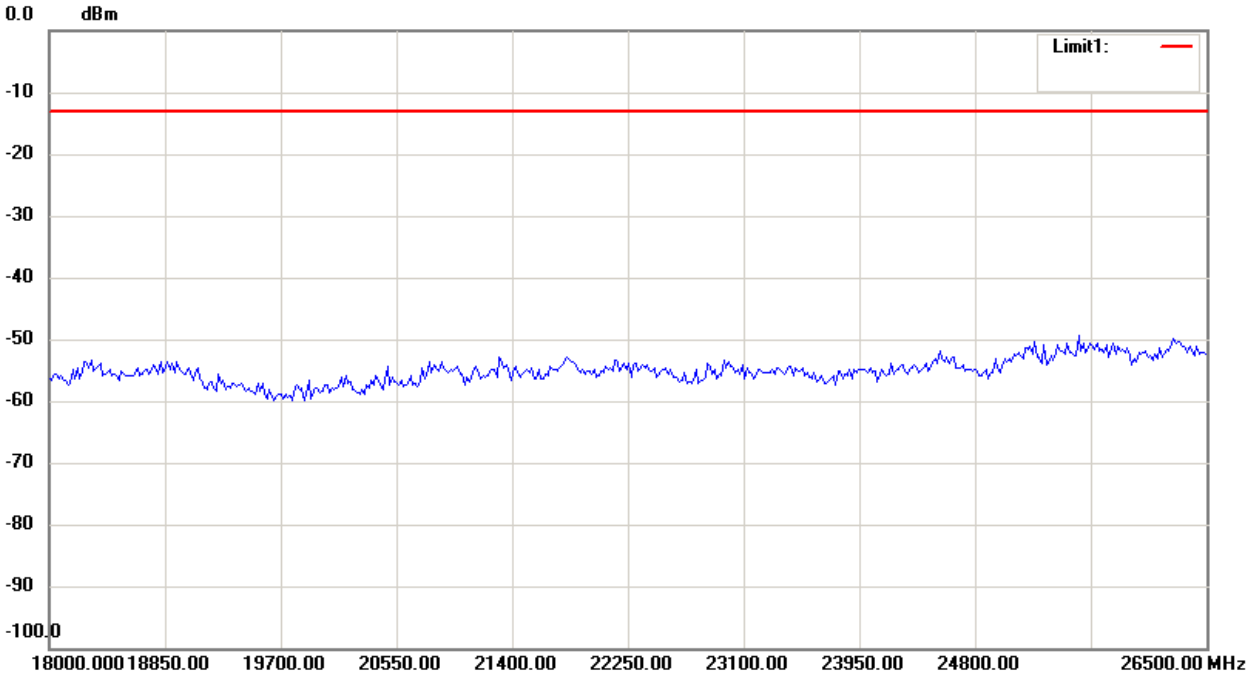
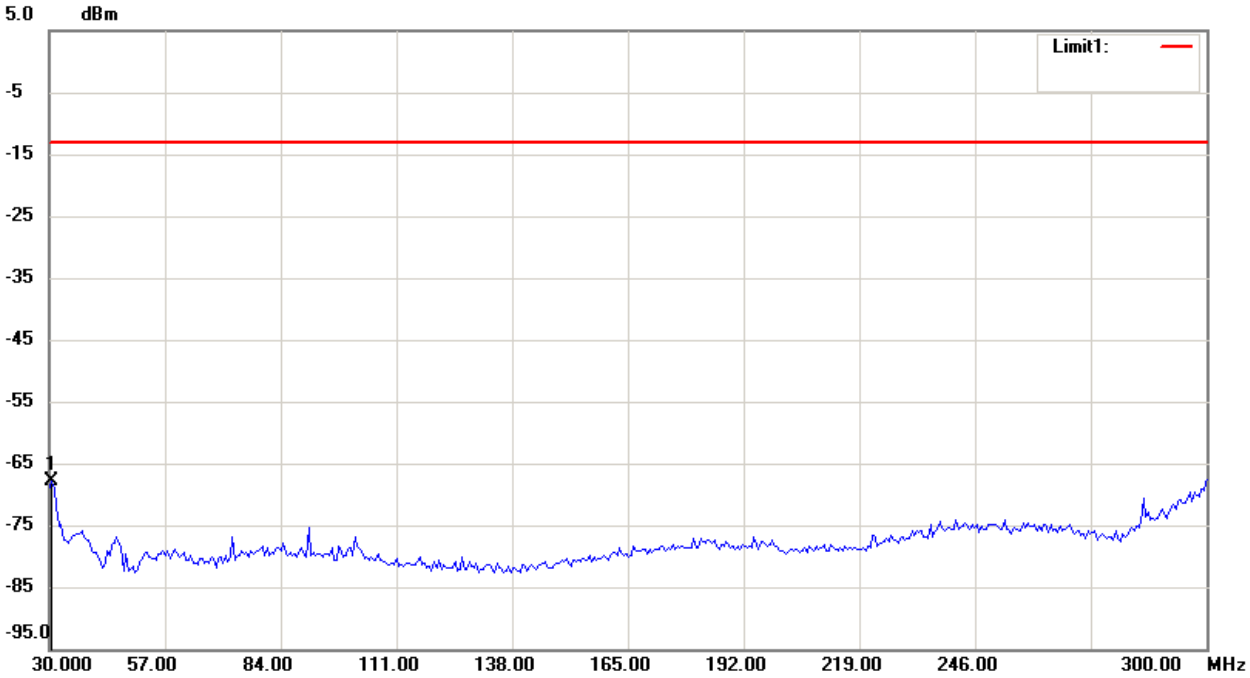


Antenna Polarization V



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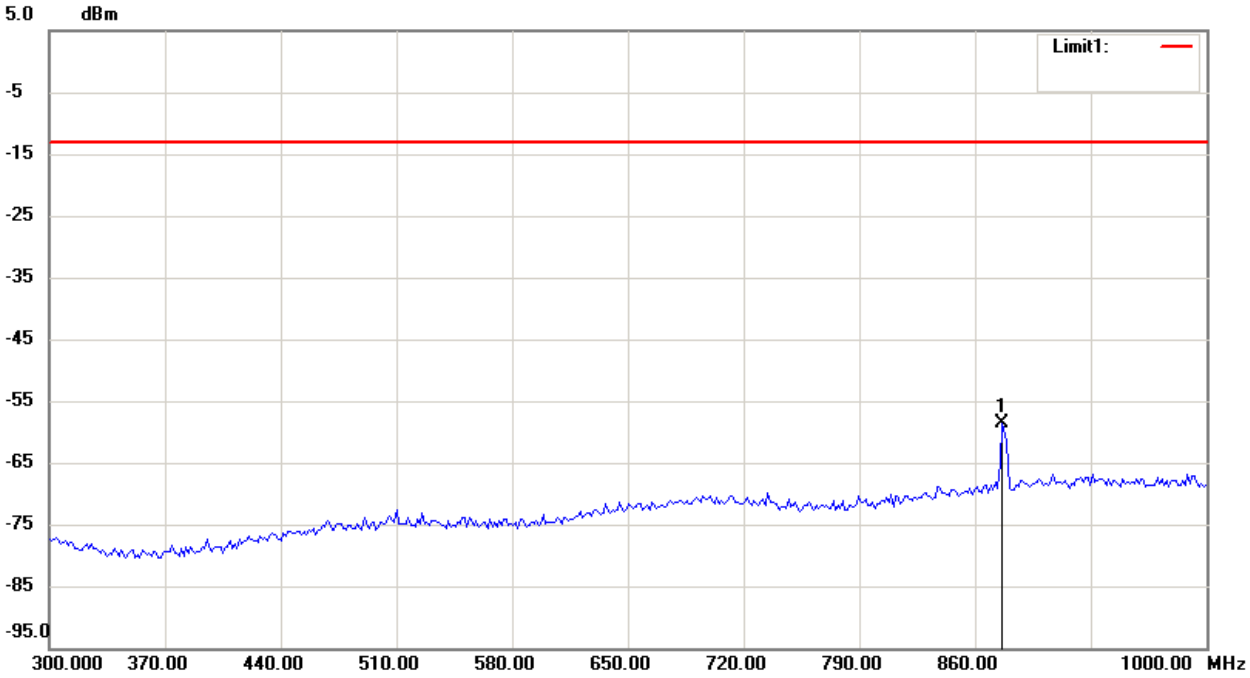

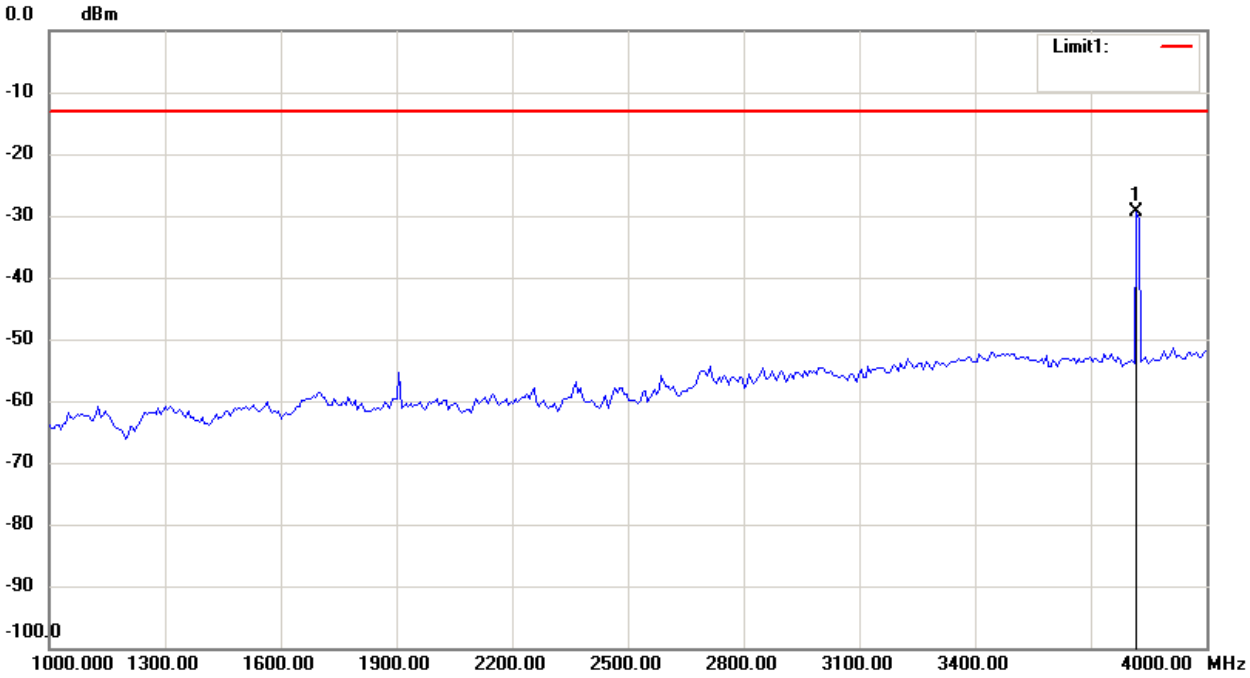

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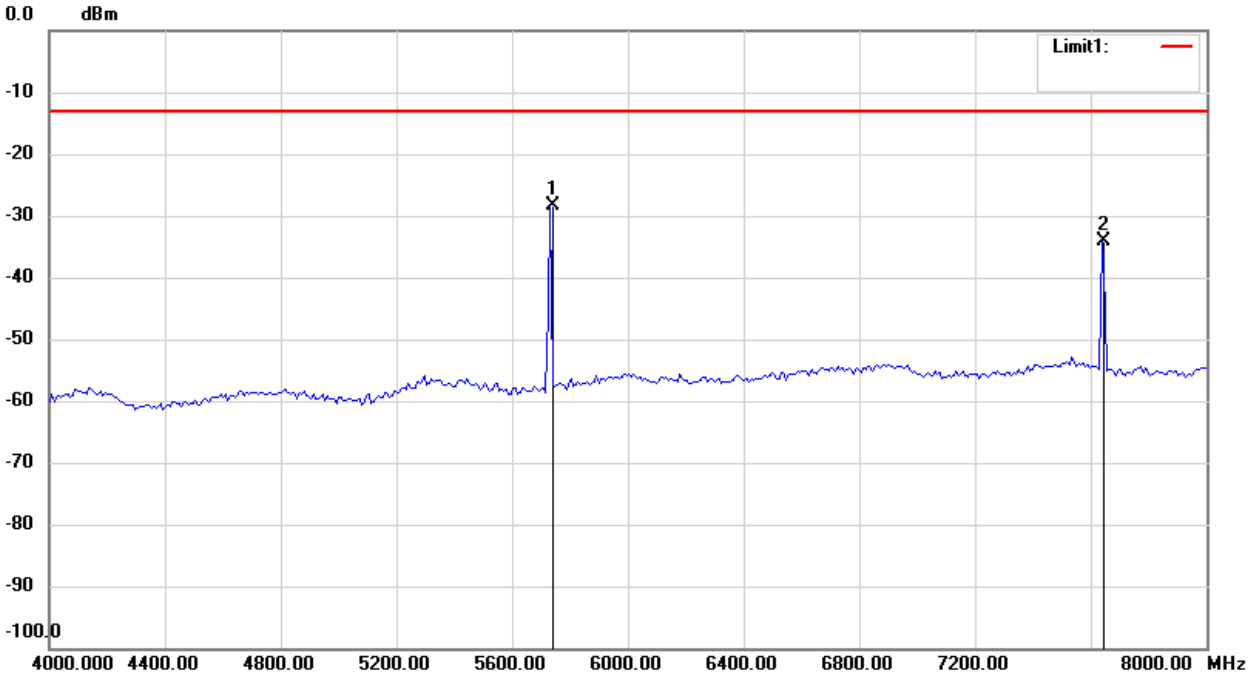

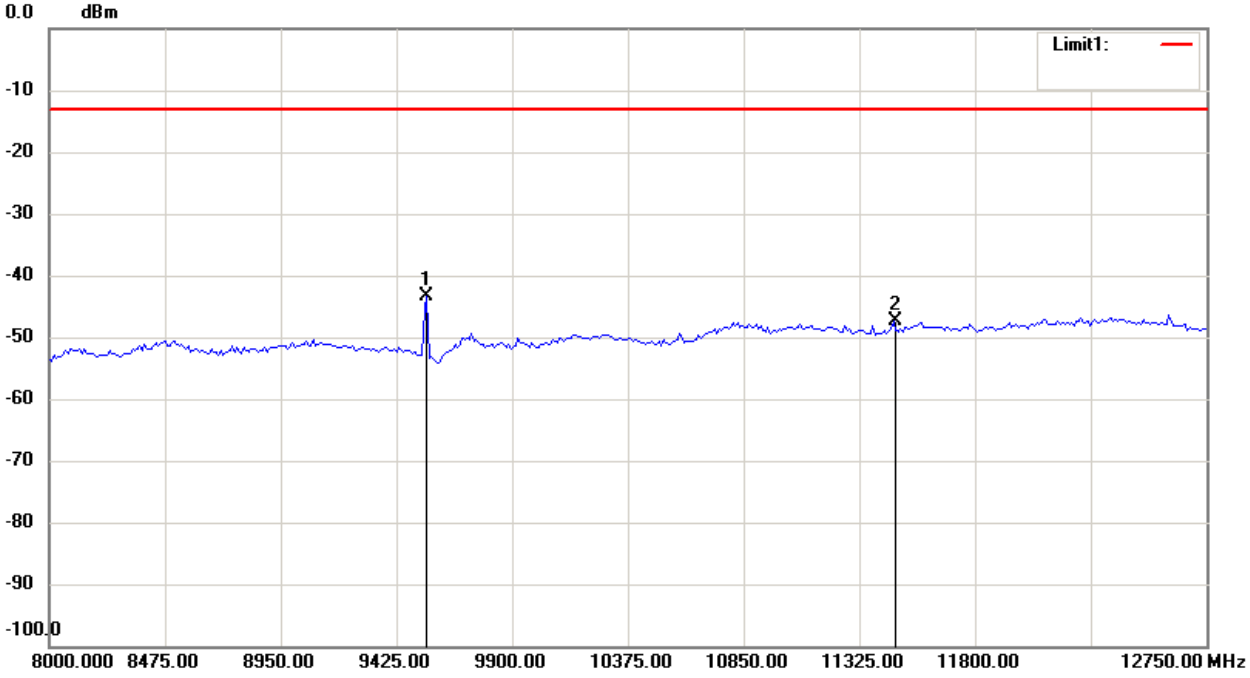

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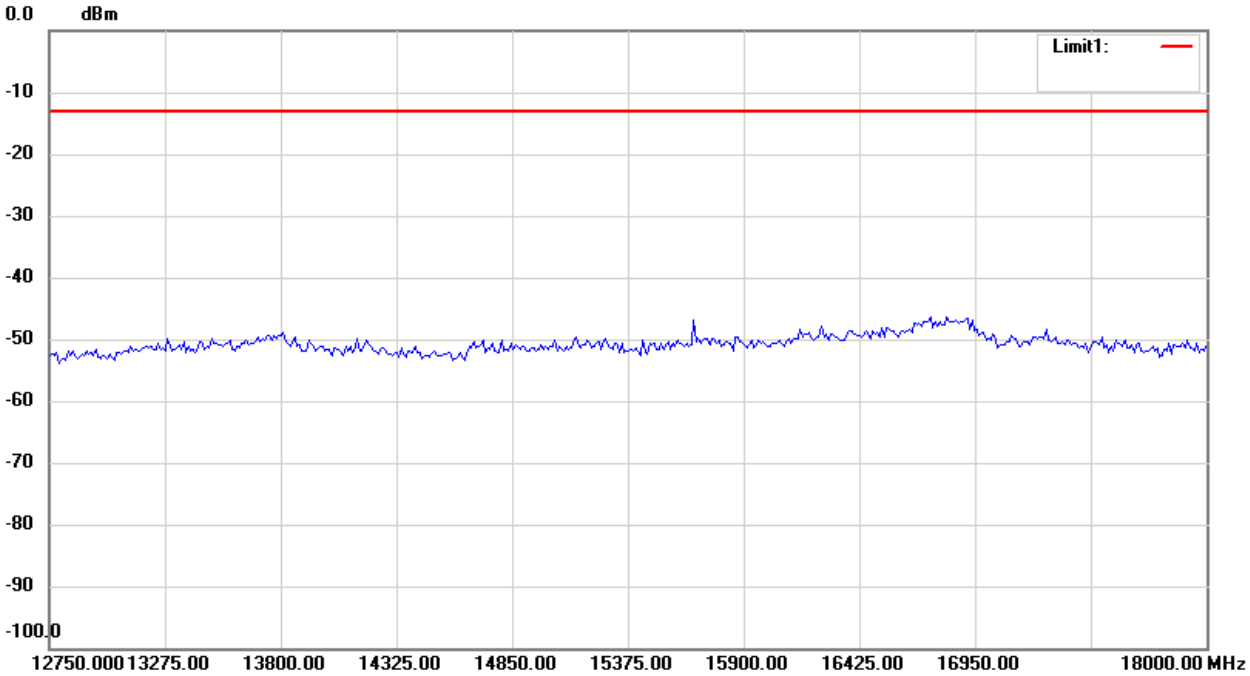

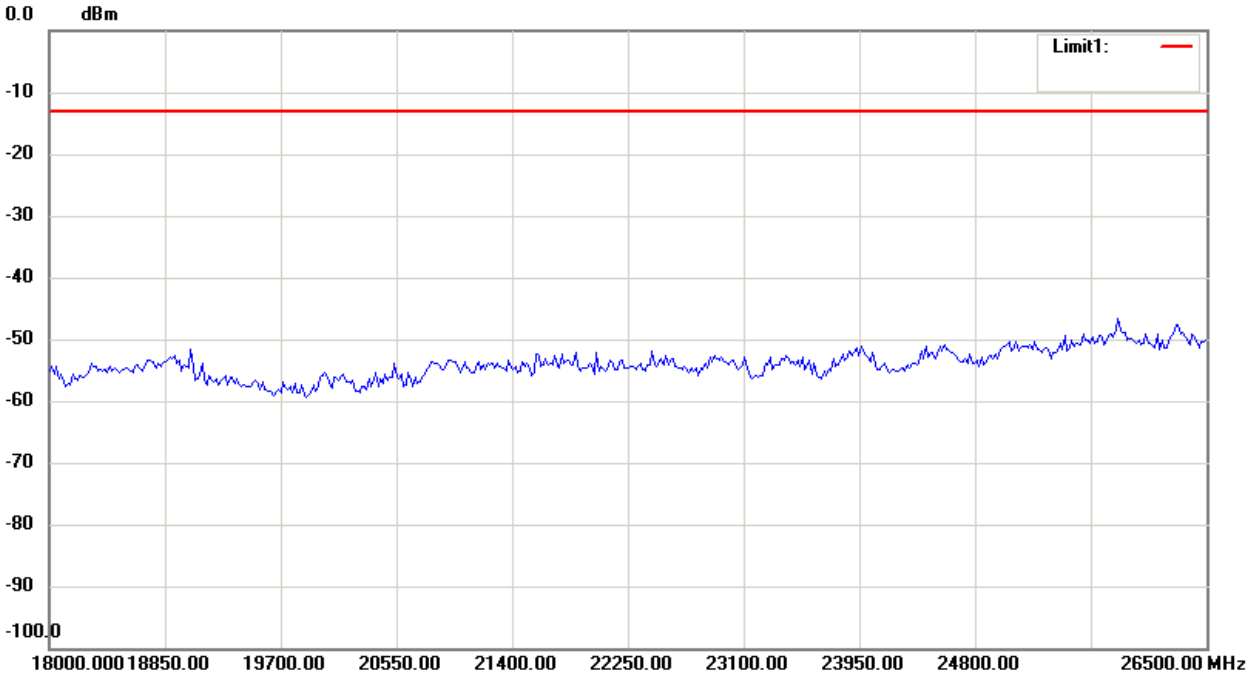

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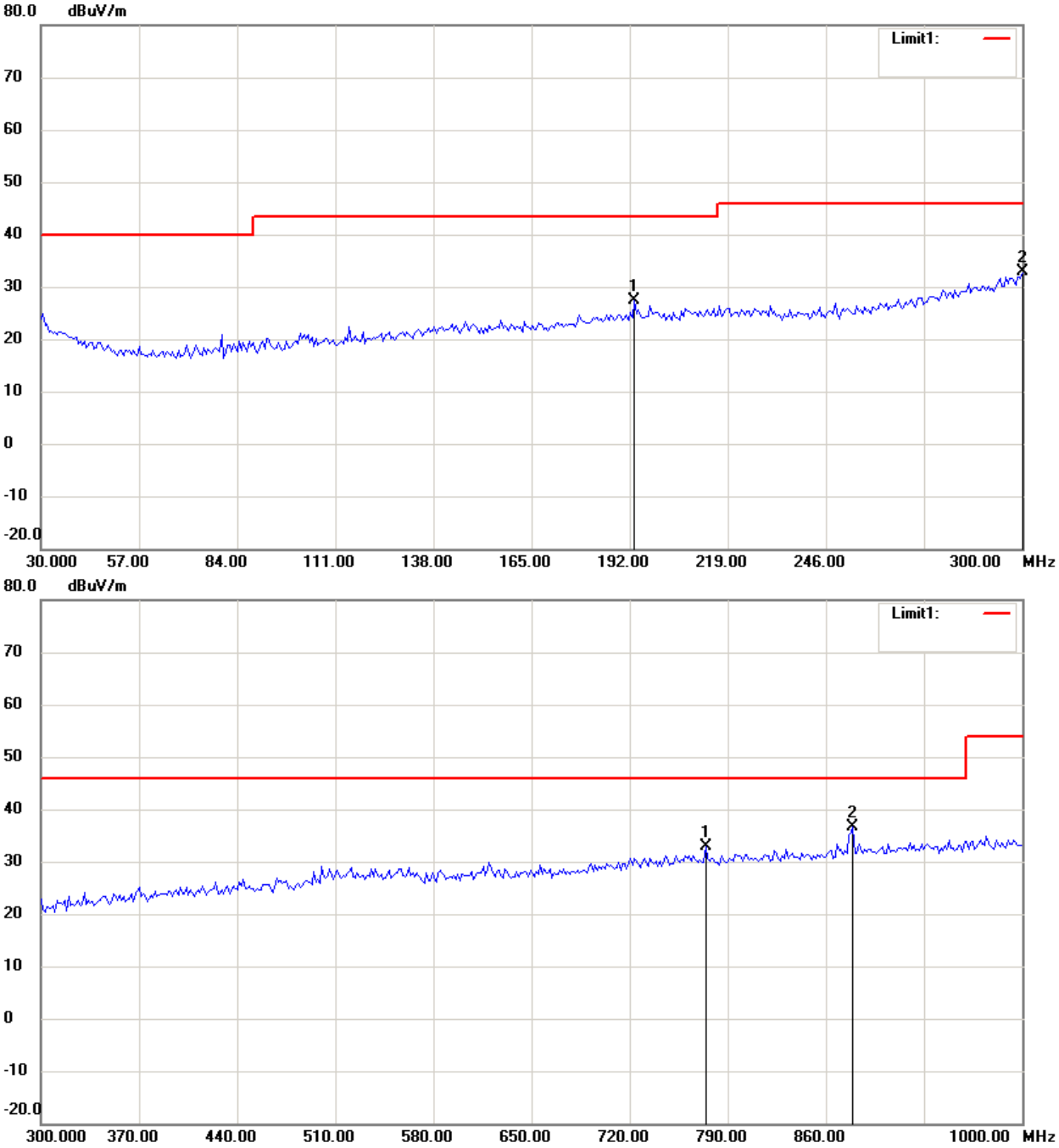
1900 band_Idle Mode_3.7V
Antenna Polarization H



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

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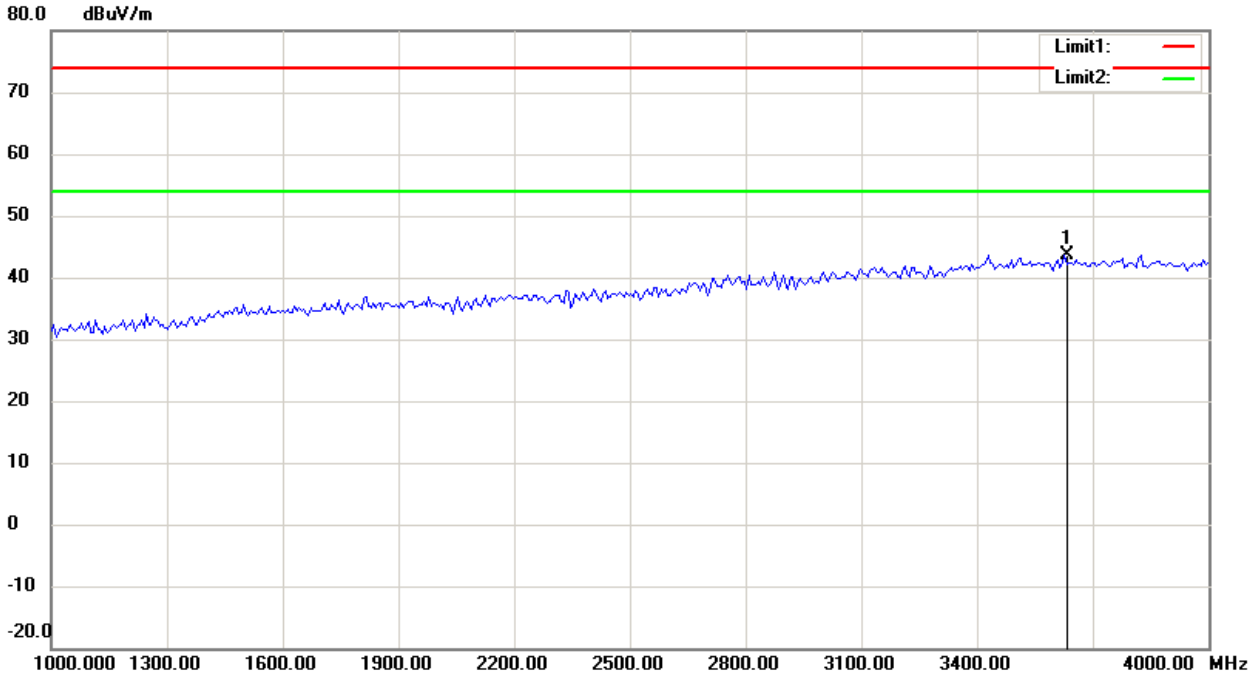

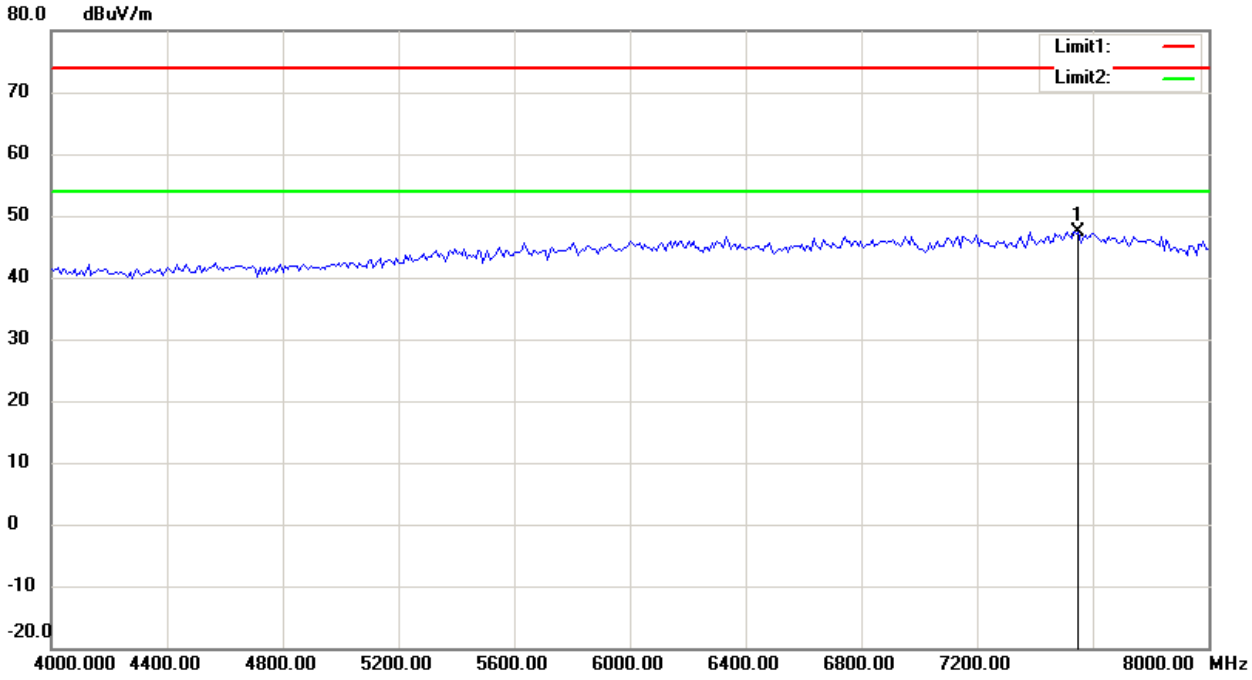

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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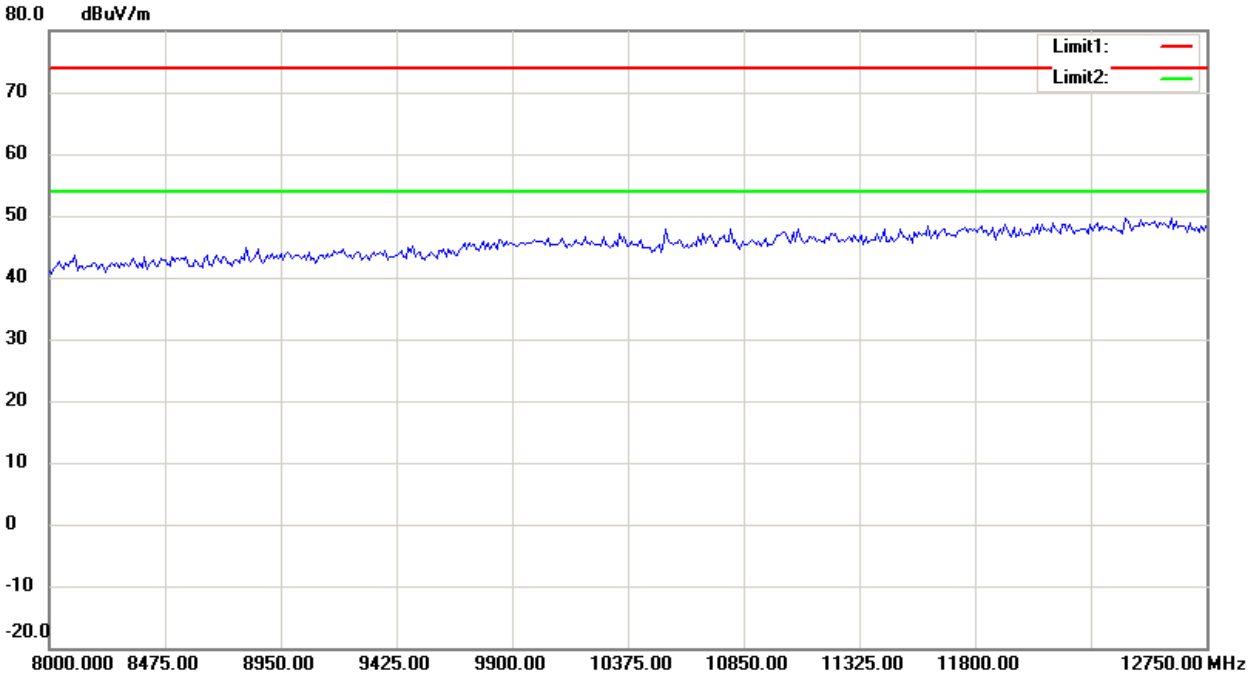

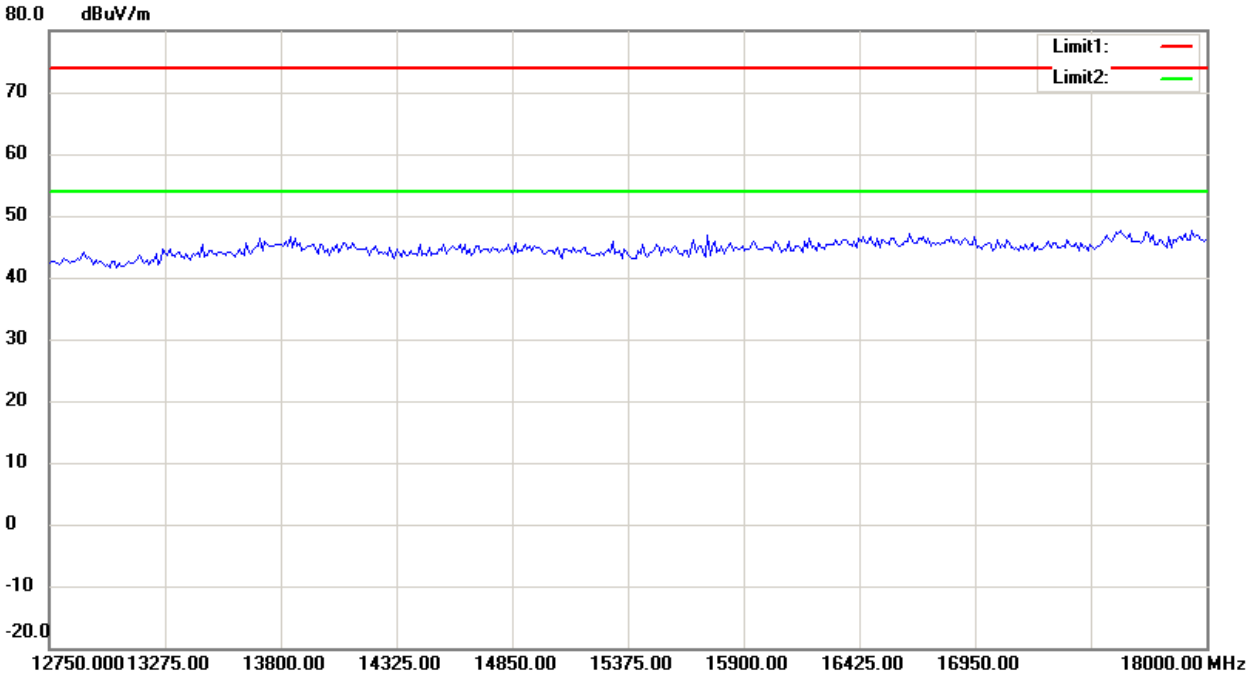

Up Line: Peak Limit Line
Down Line: Ave Limit Line
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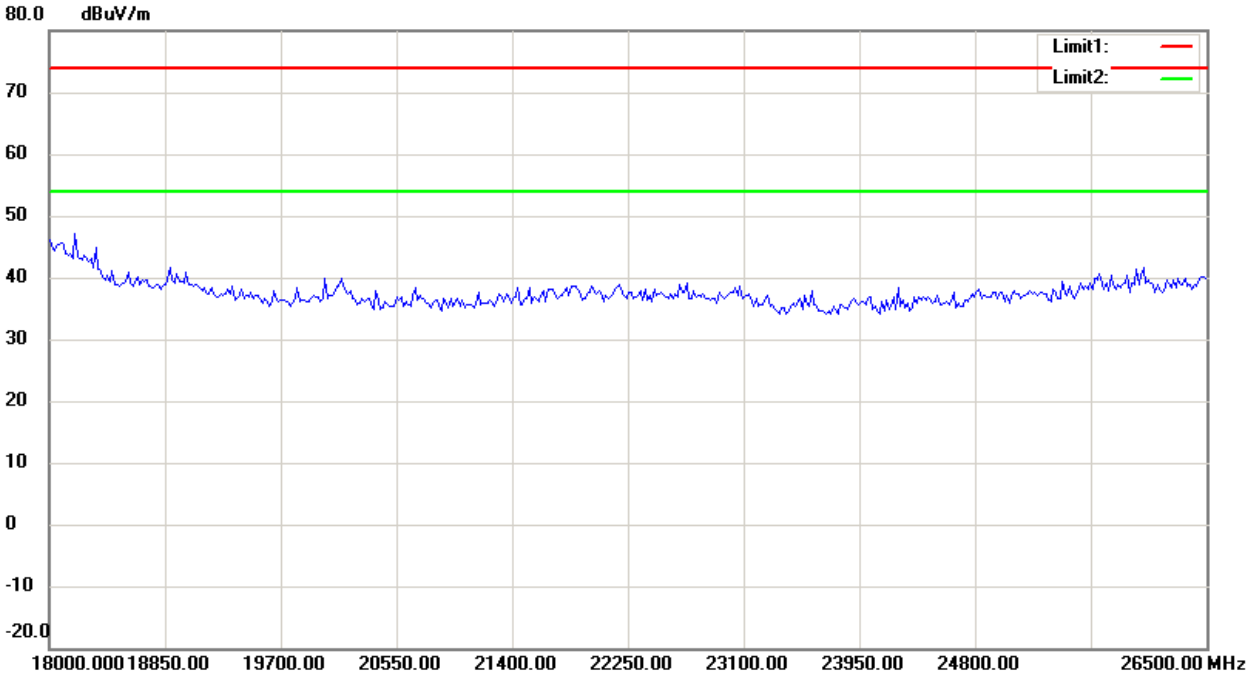
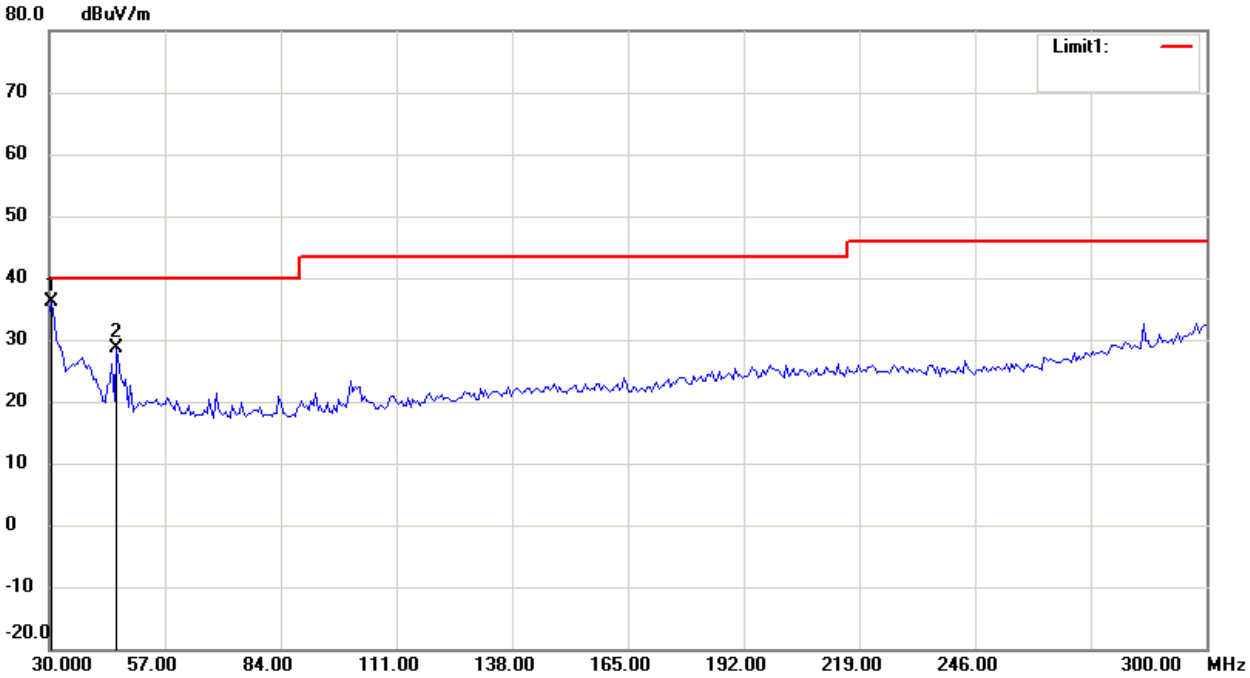


Antenna Polarization V



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

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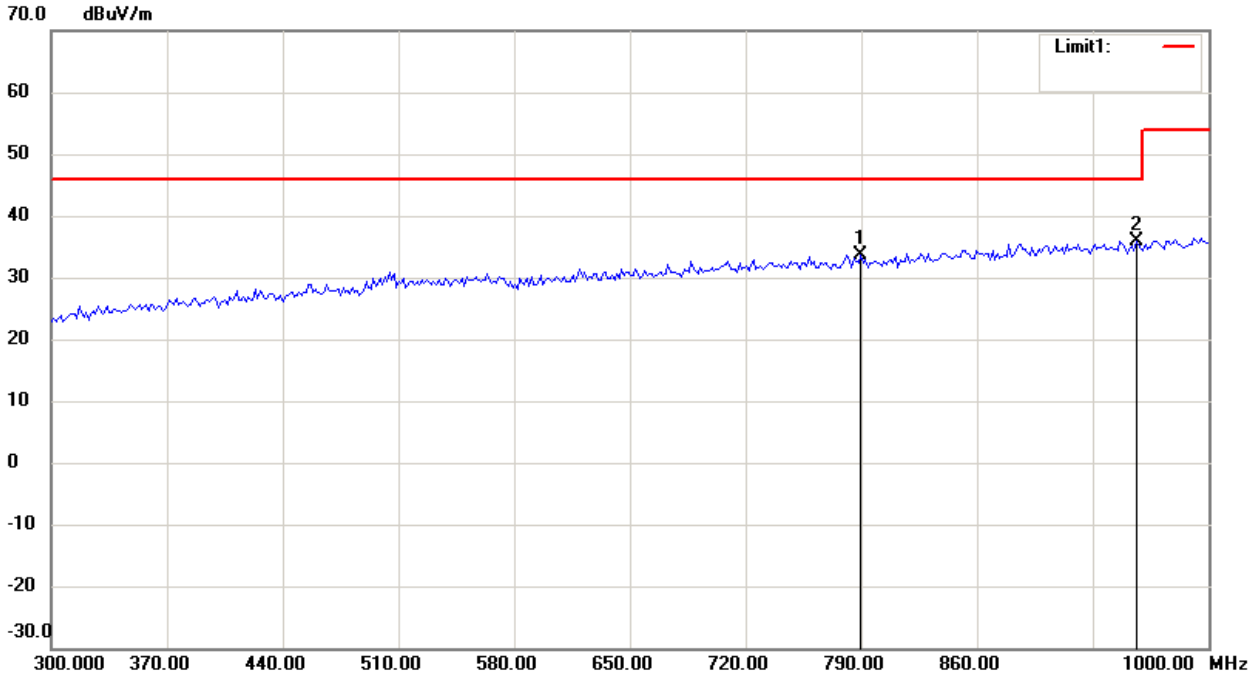

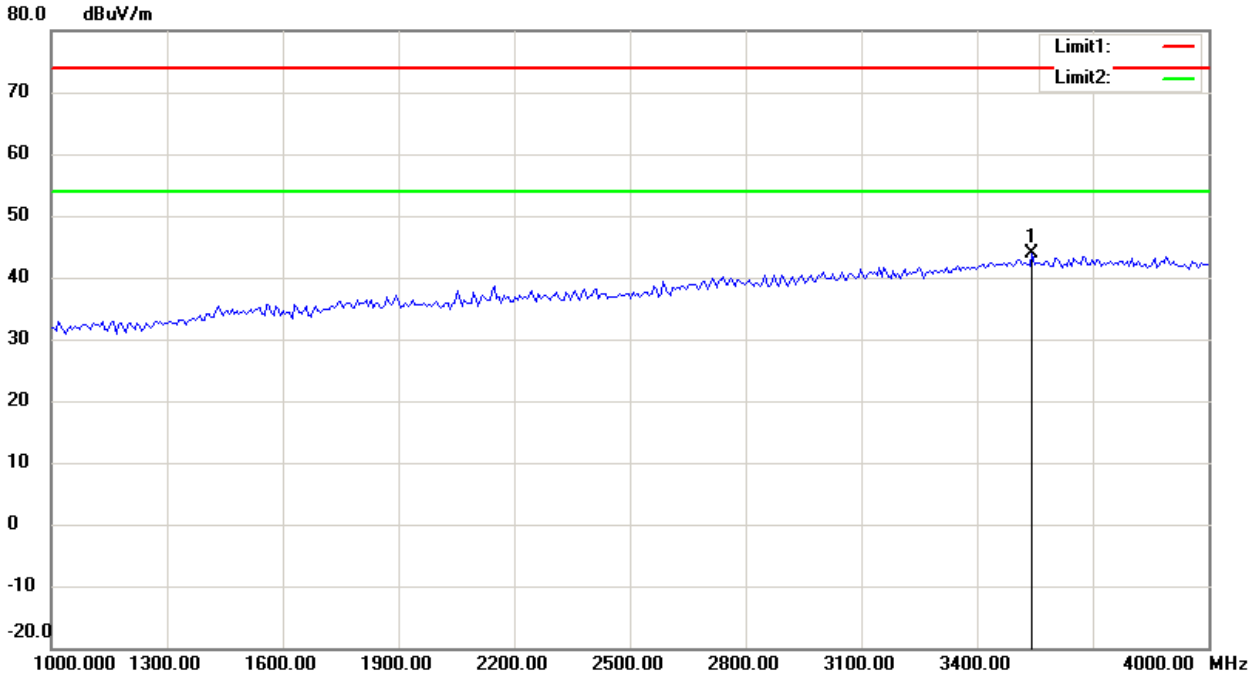

Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
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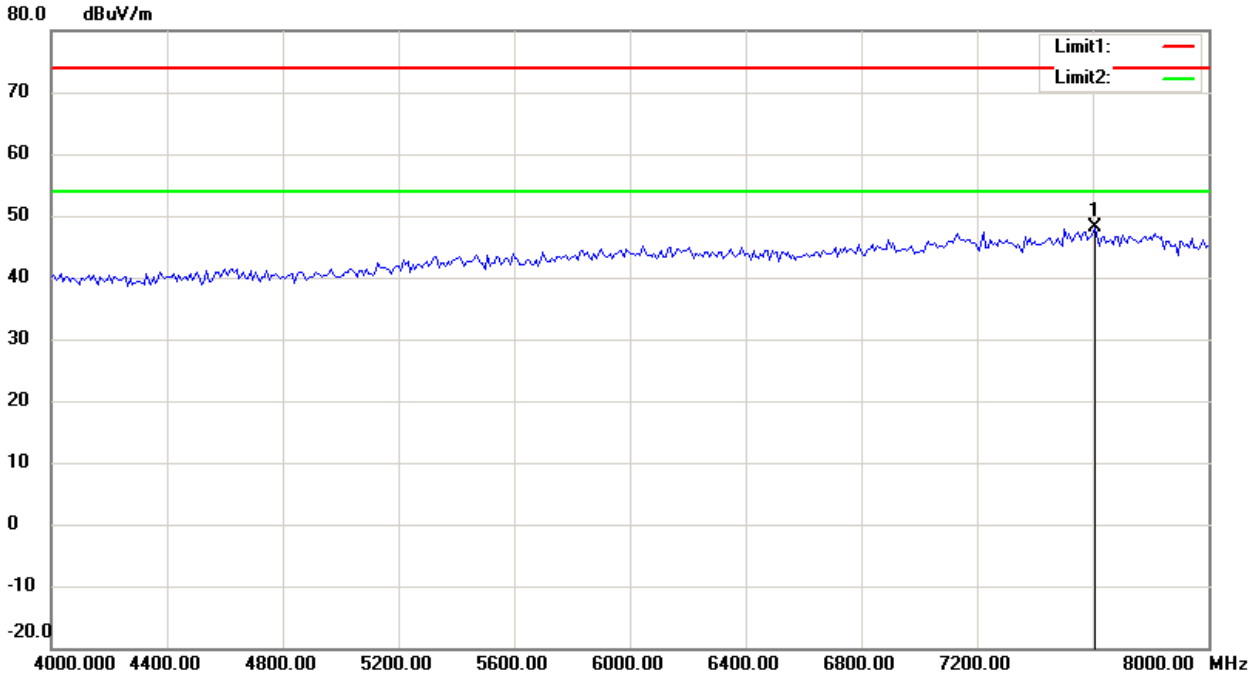

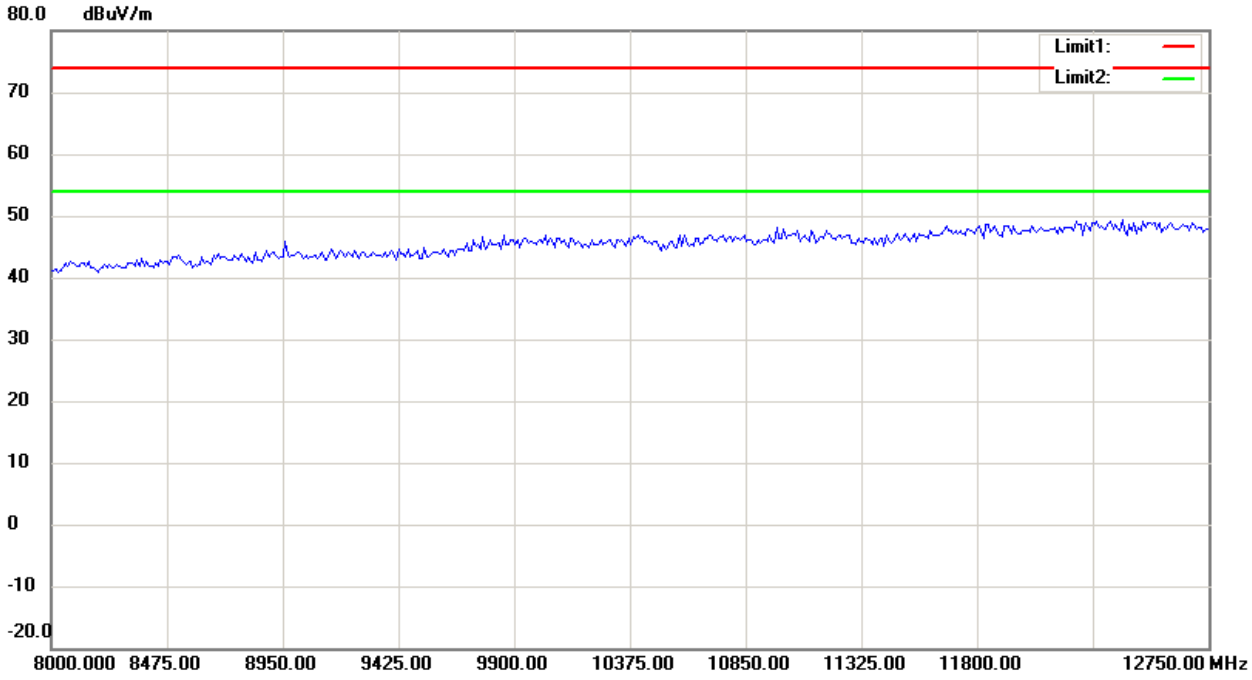

Up Line: Peak Limit Line
Down Line: Ave Limit Line
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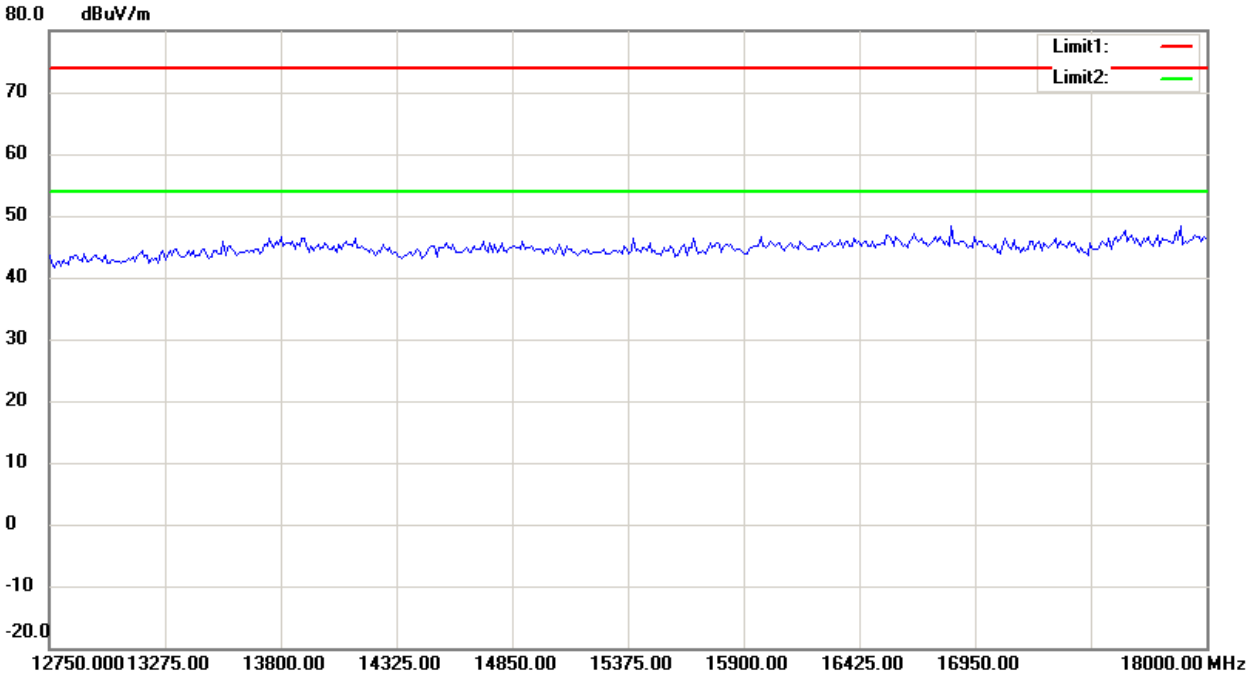
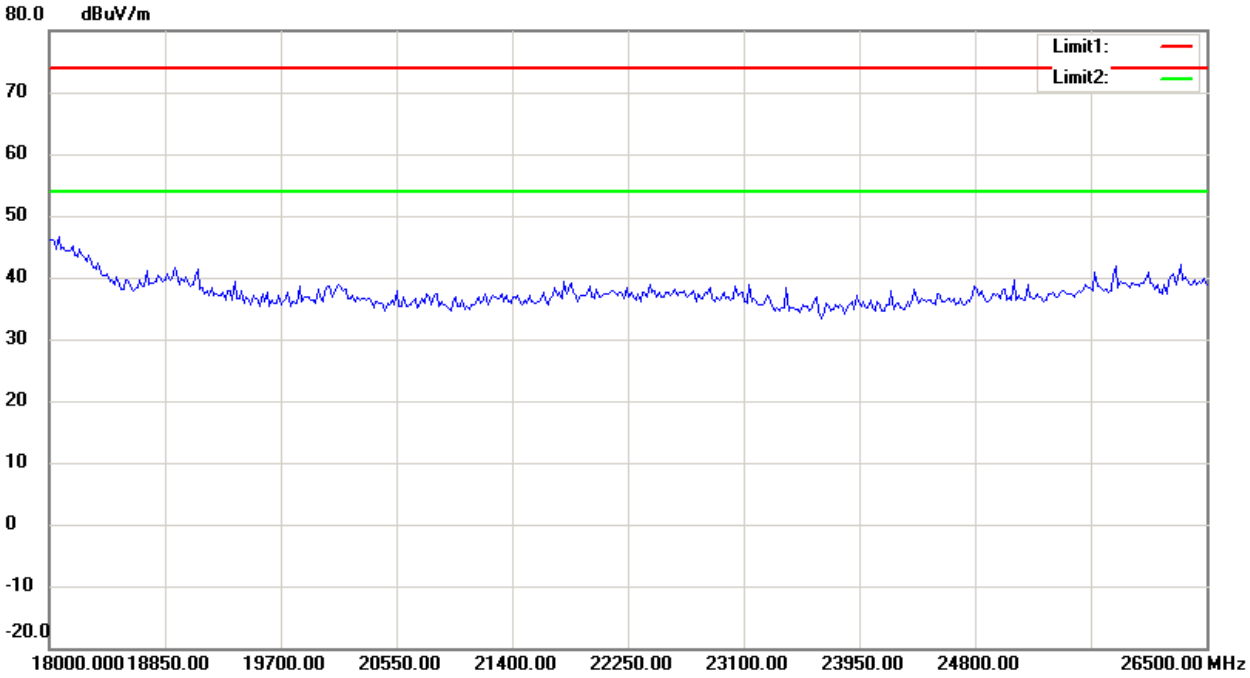
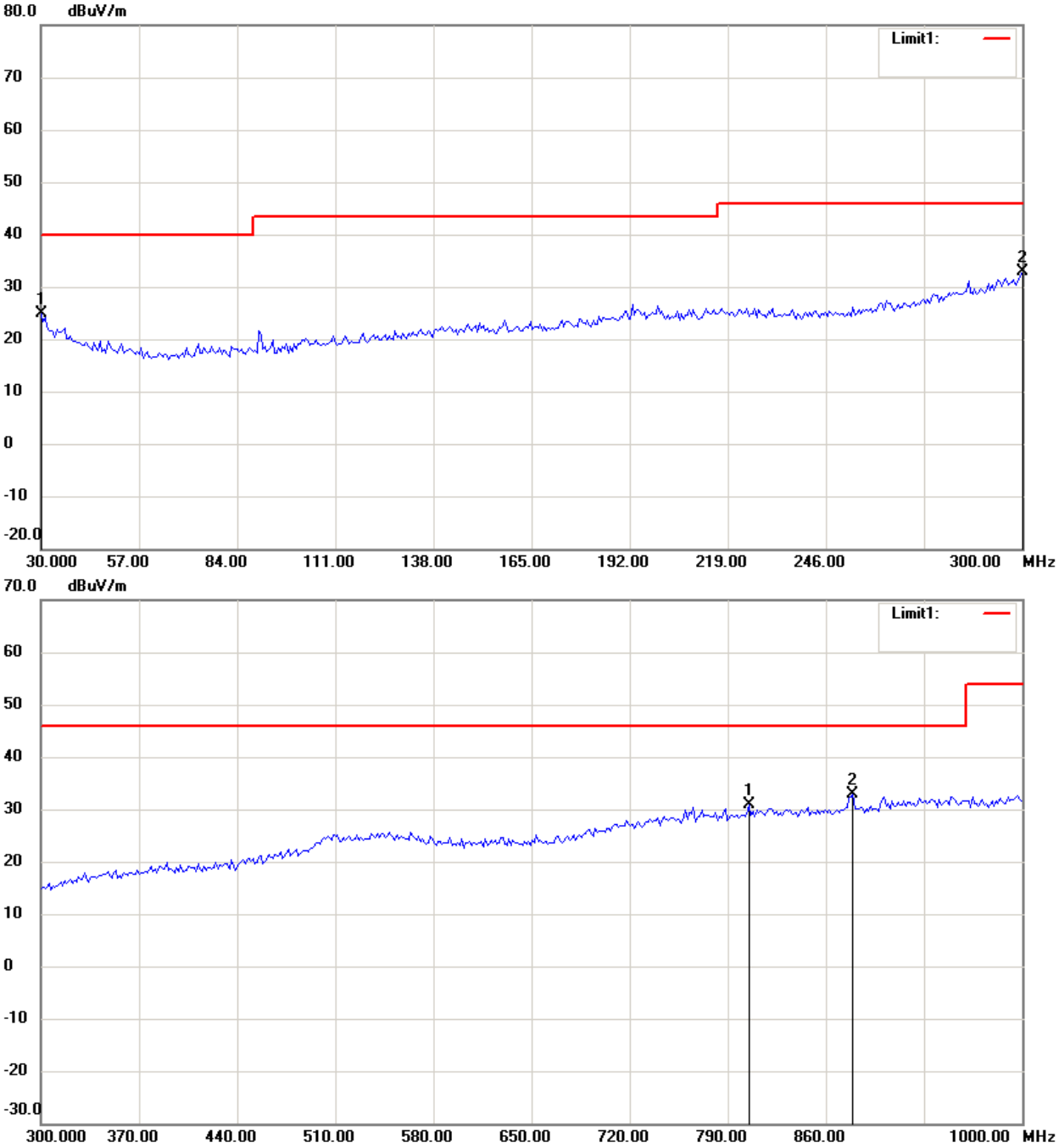




Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

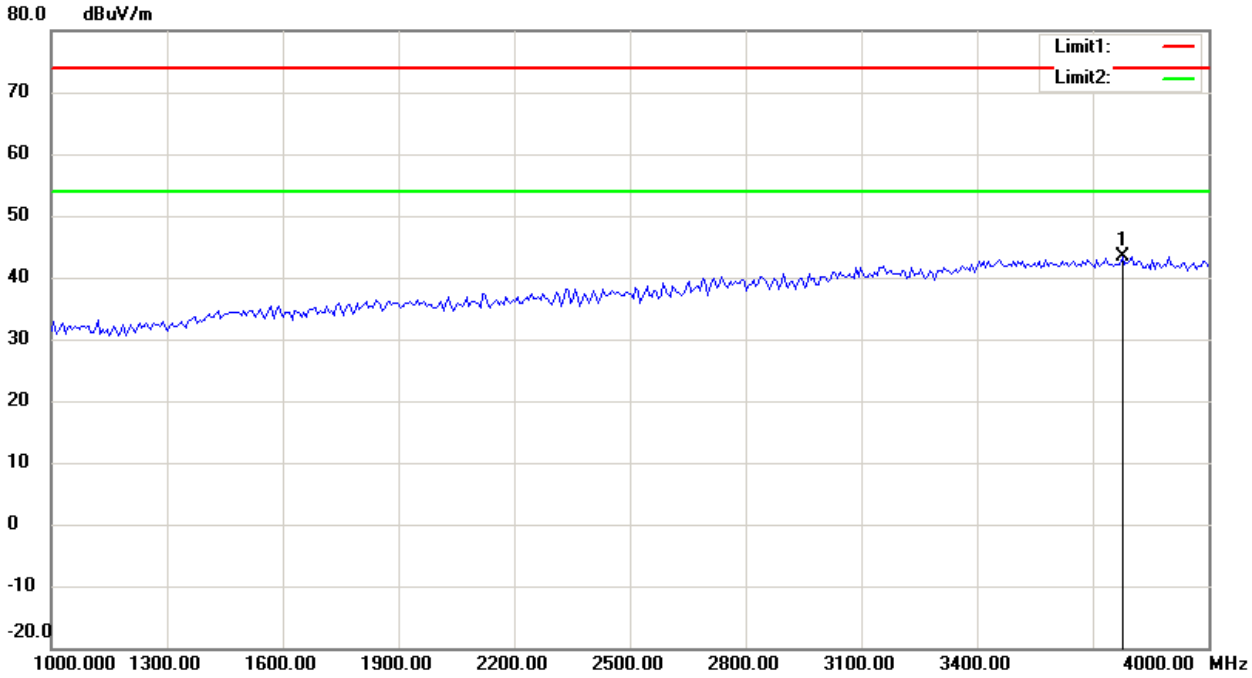
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

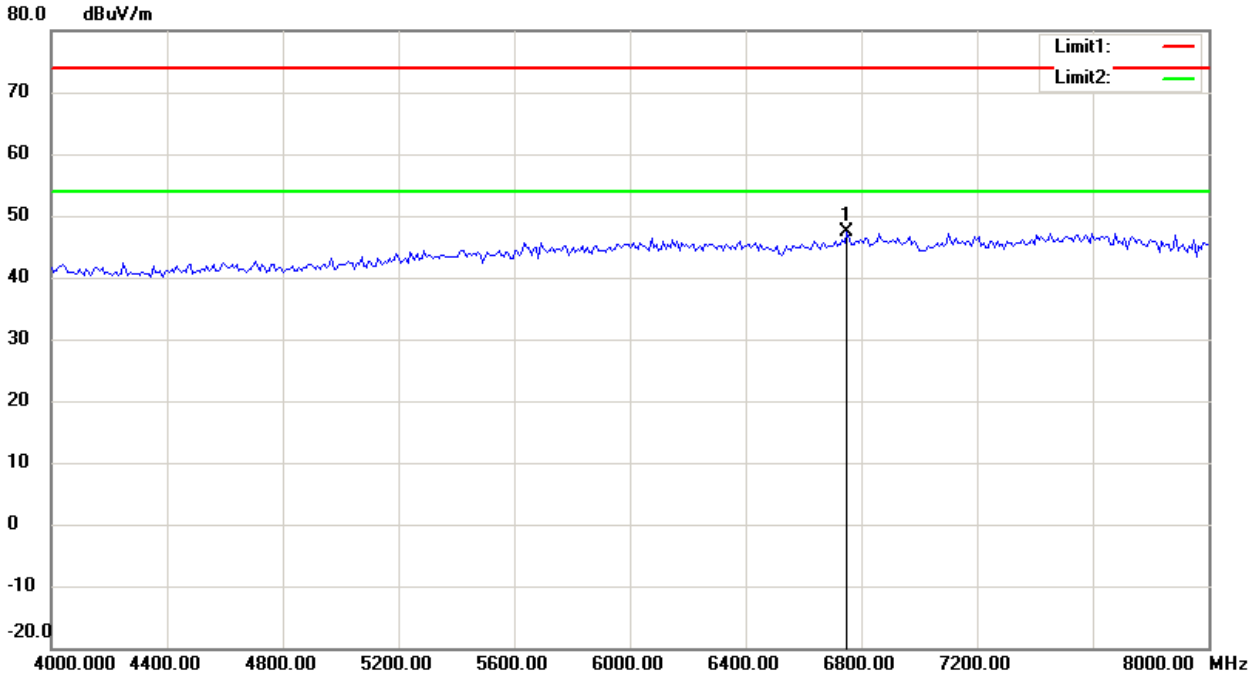
1900 band_Idle Mode_3.6V
Antenna Polarization H



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

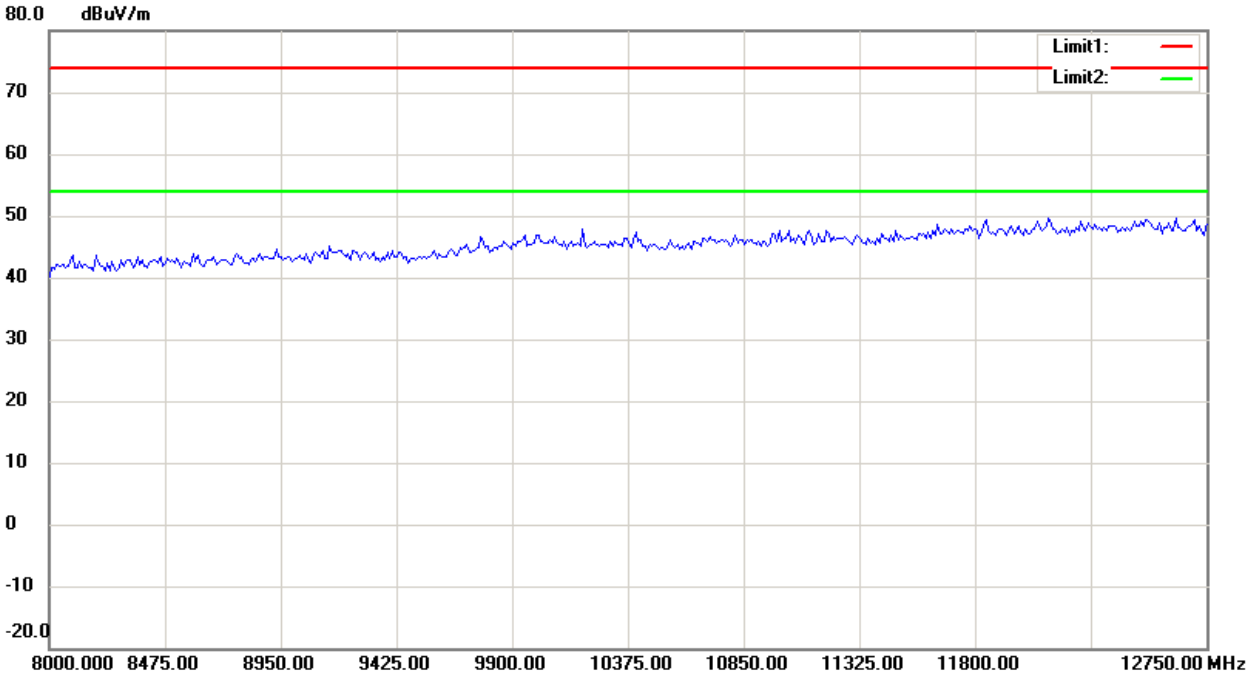
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

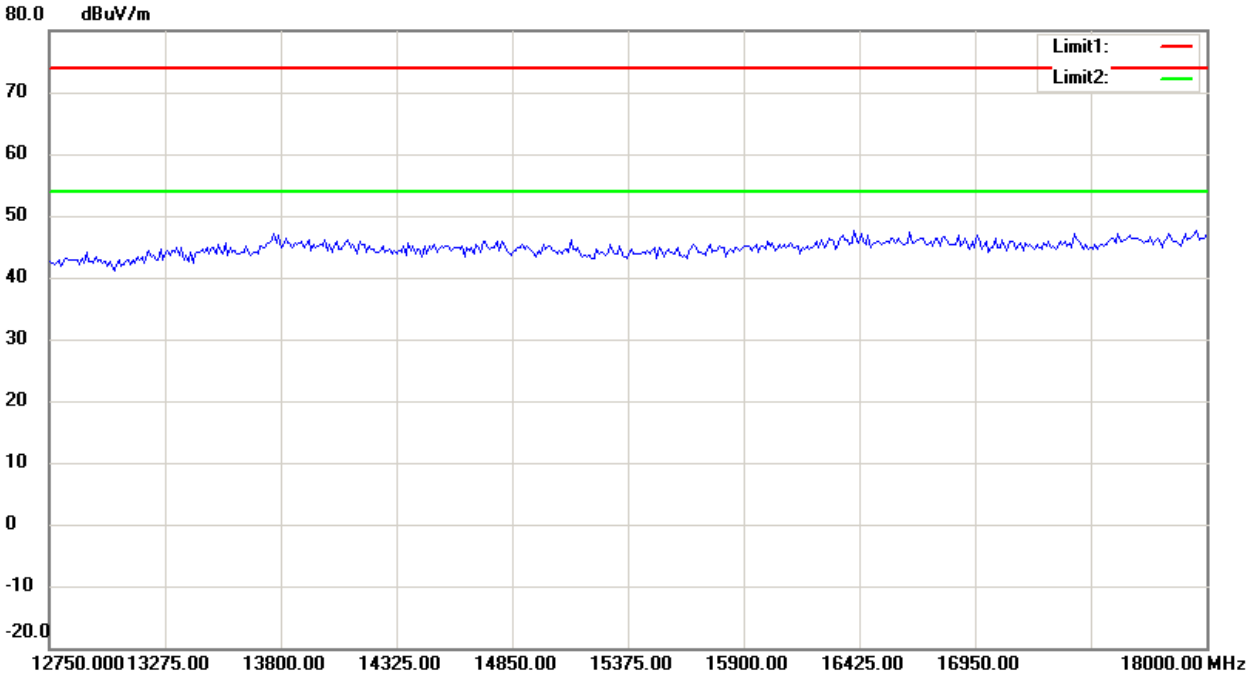




Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

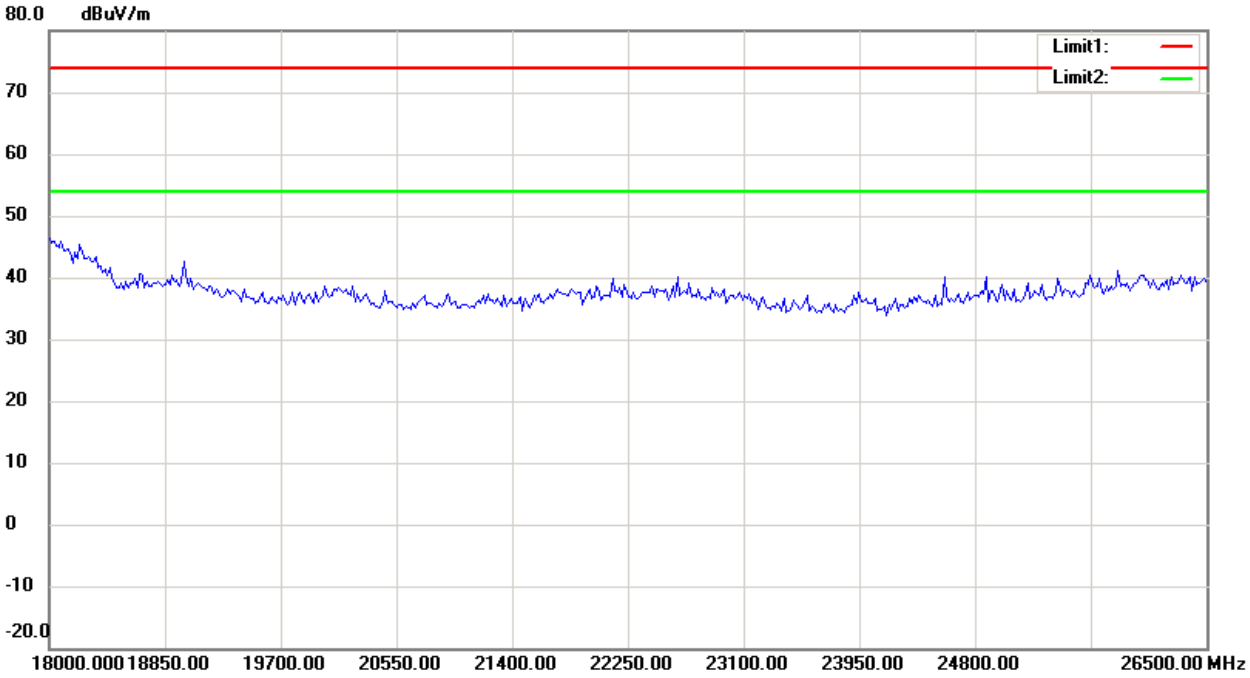
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



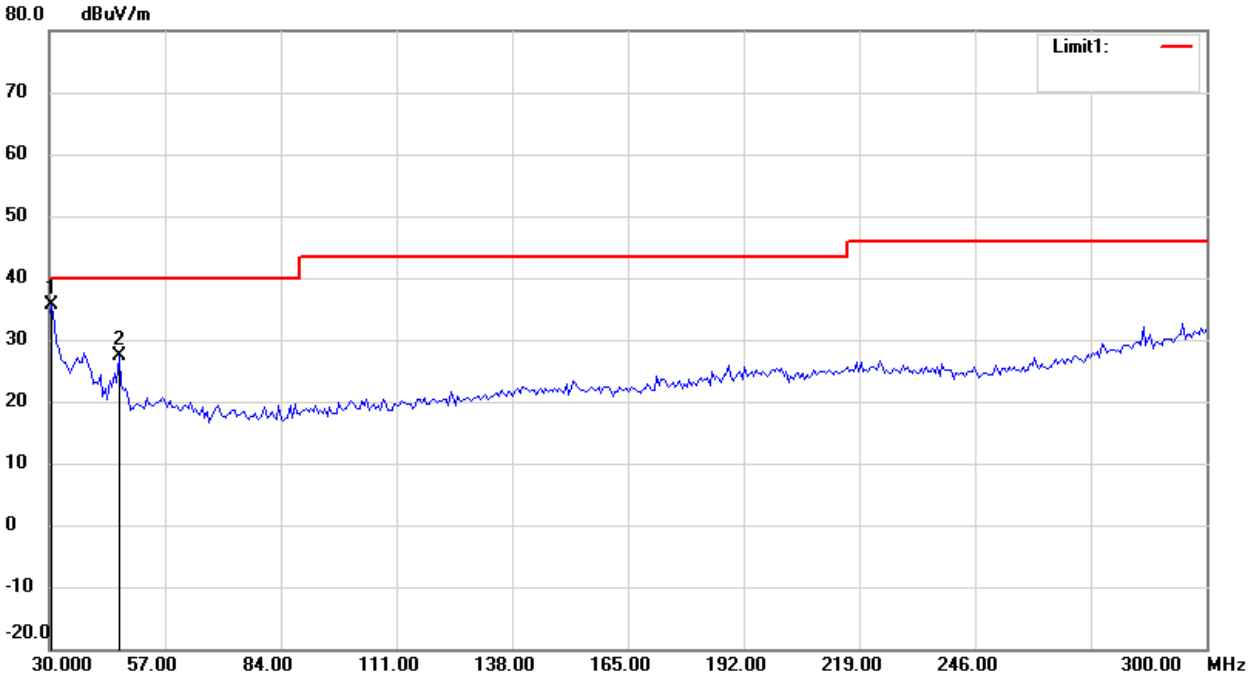


Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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.**

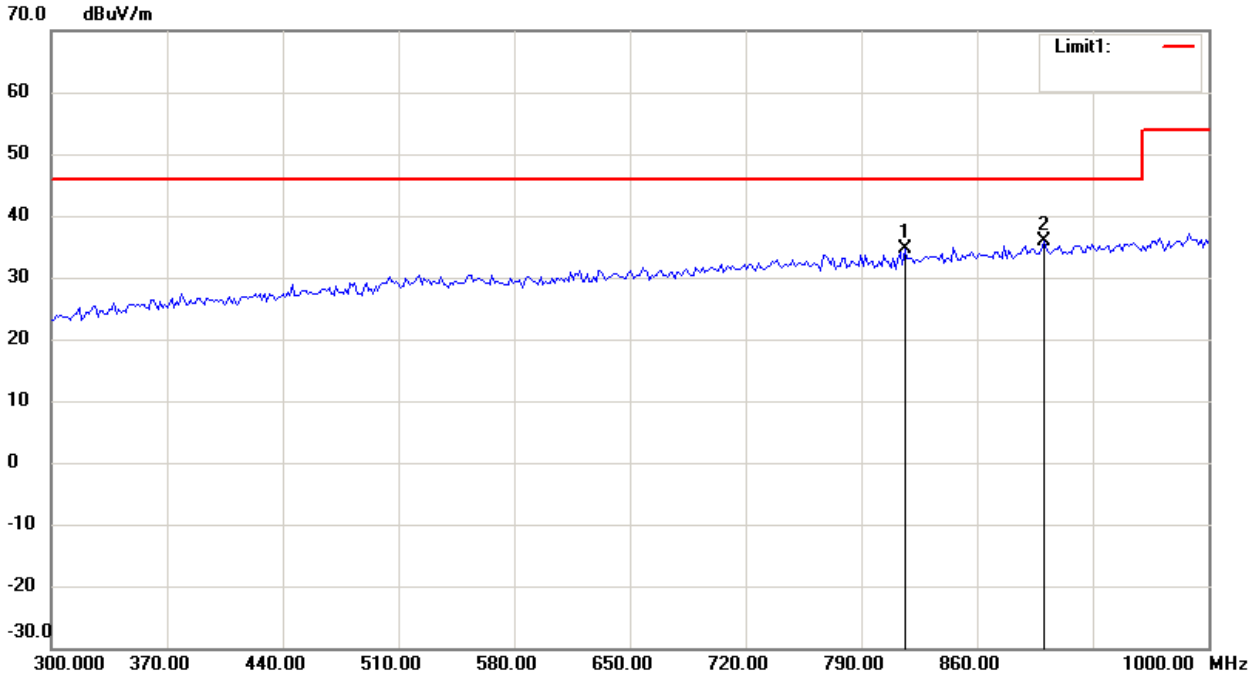


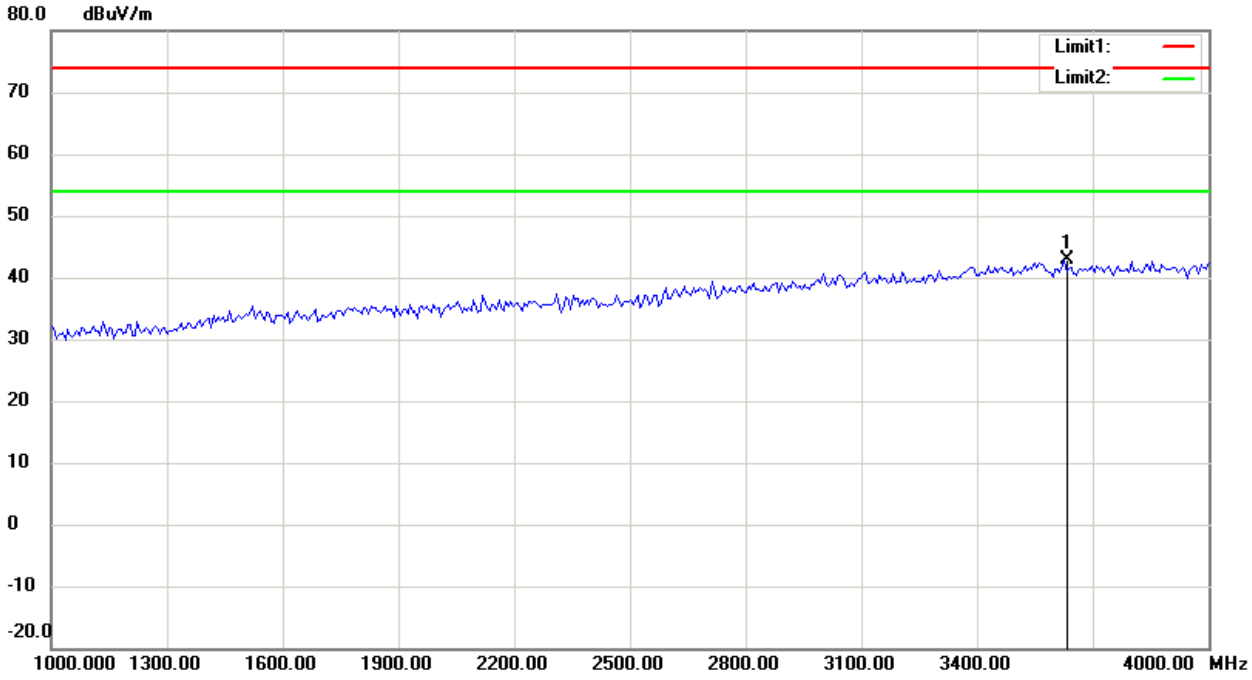
Antenna Polarization V



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

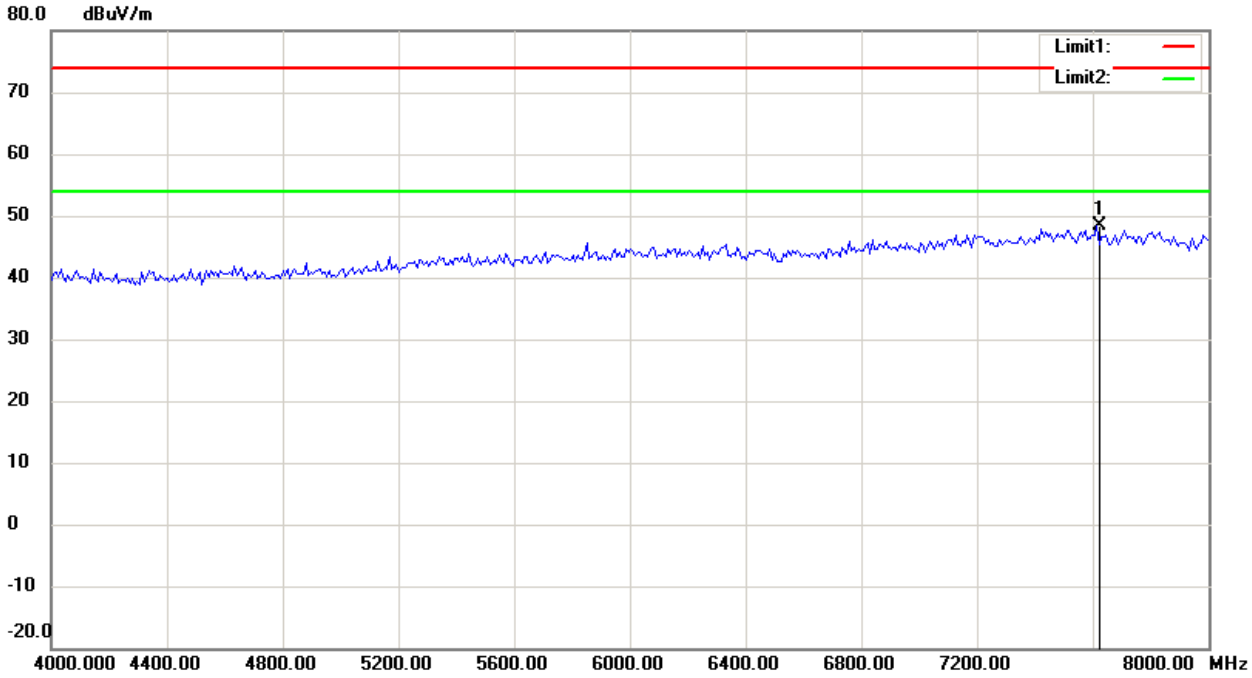
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

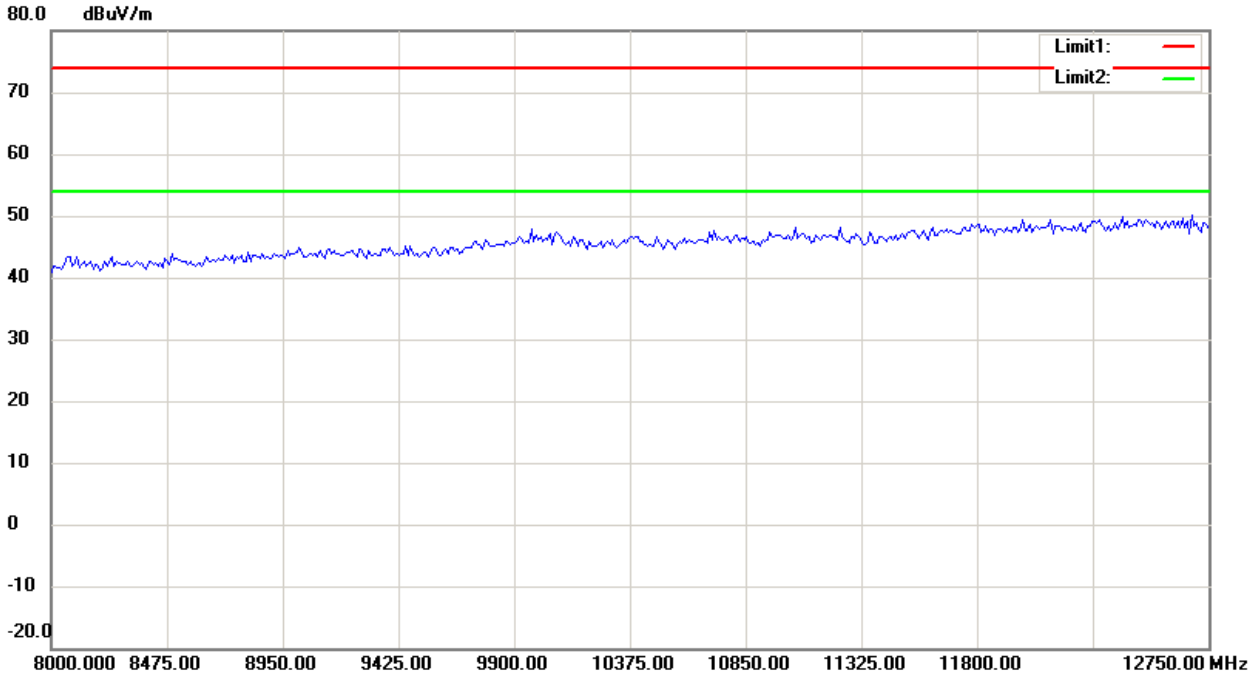




Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

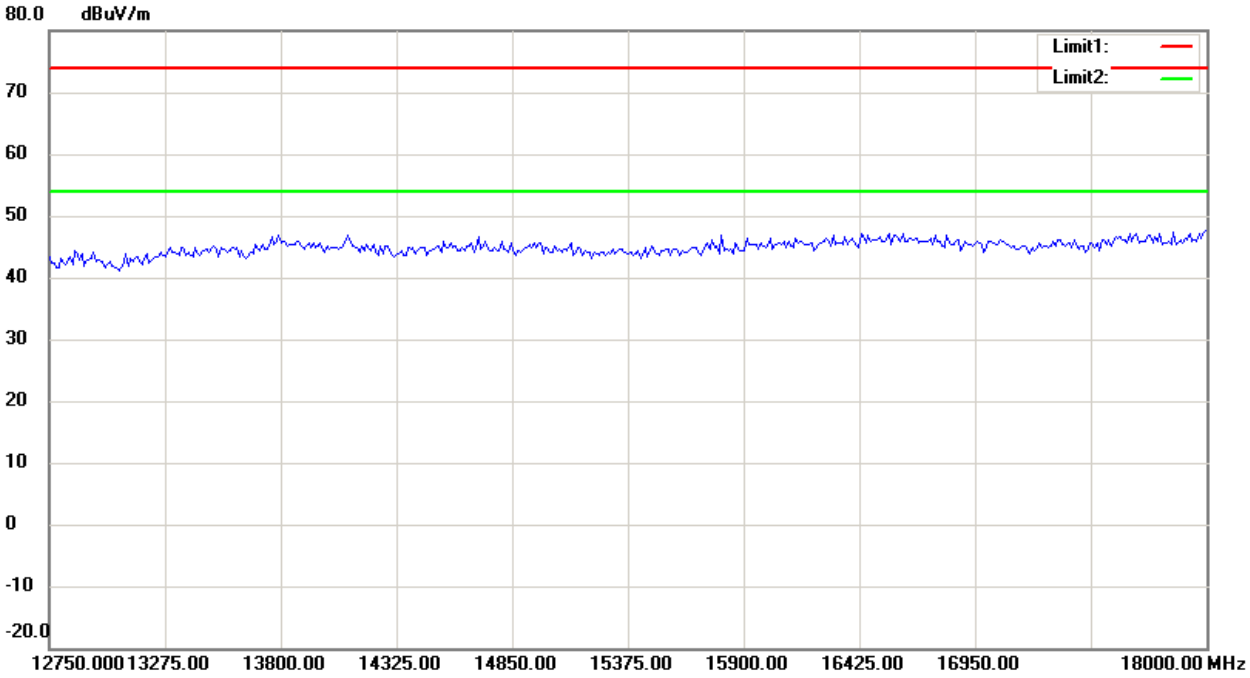
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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

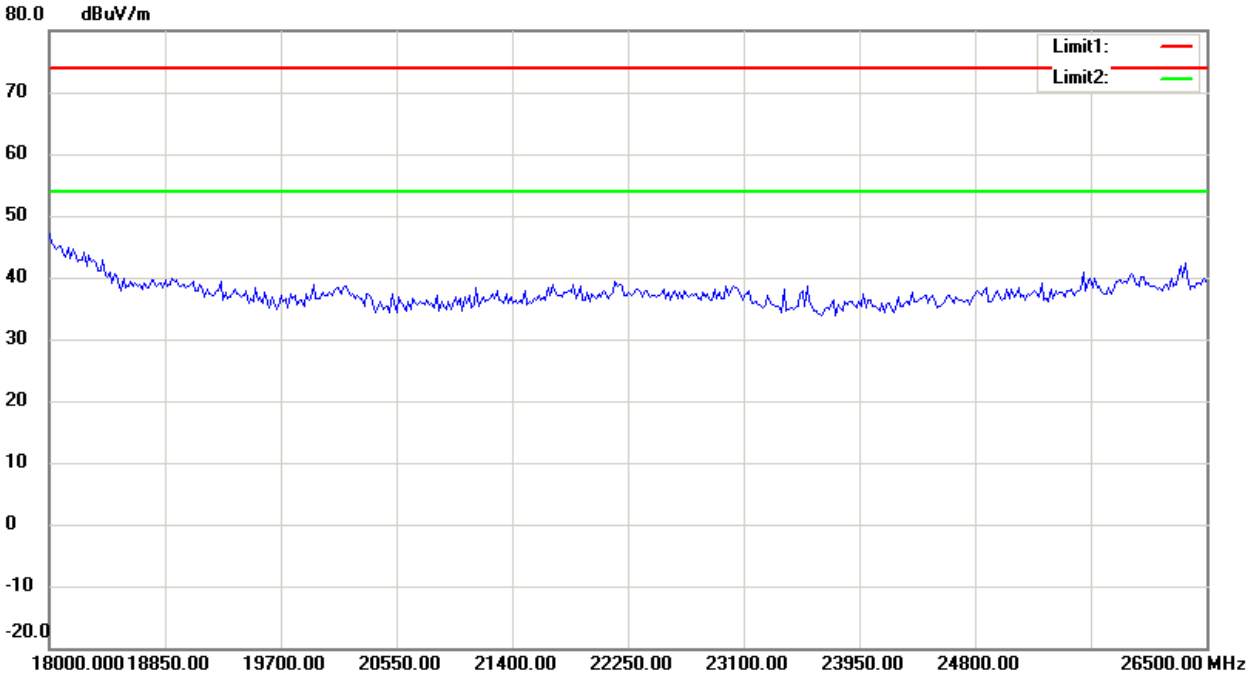




Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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.**

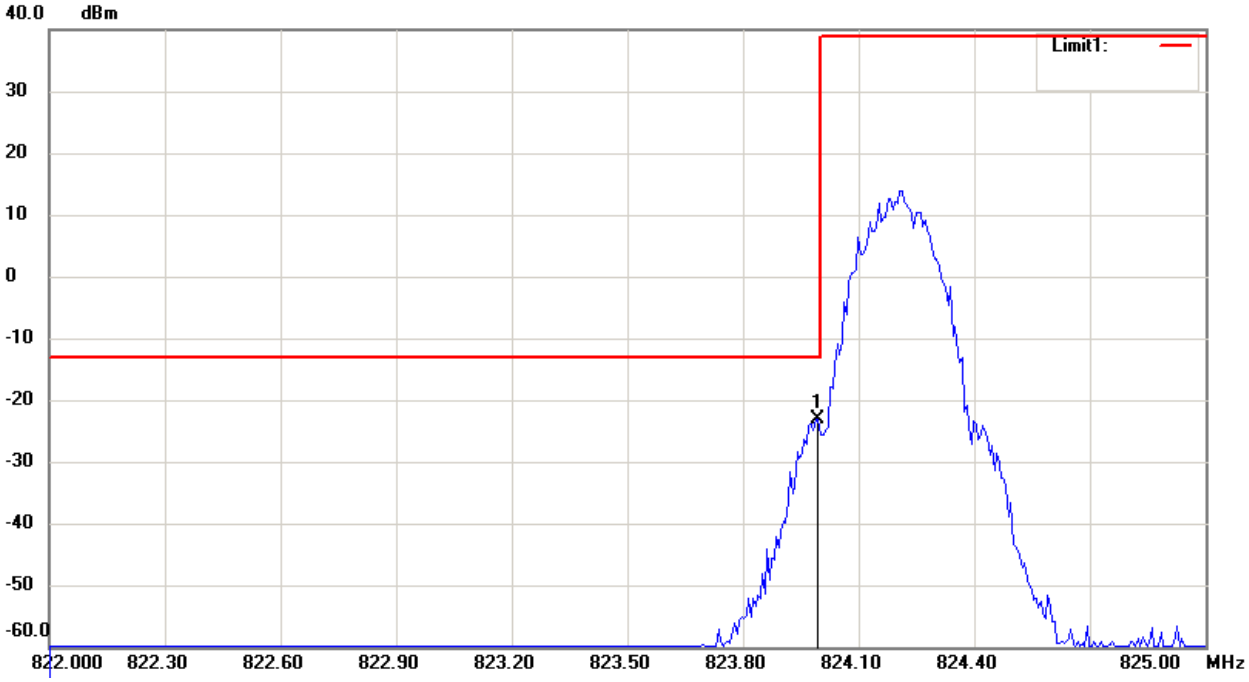




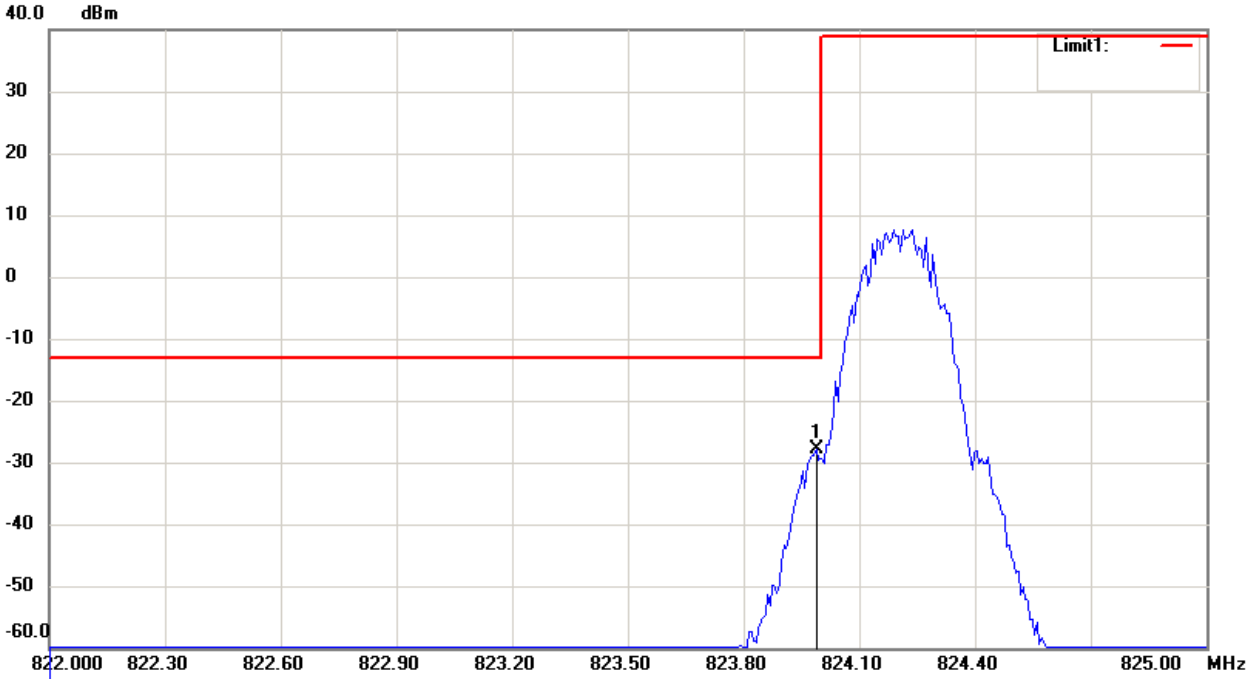
Up Line: Peak Limit Line
Down Line: Ave Limit Line
Note:

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.**

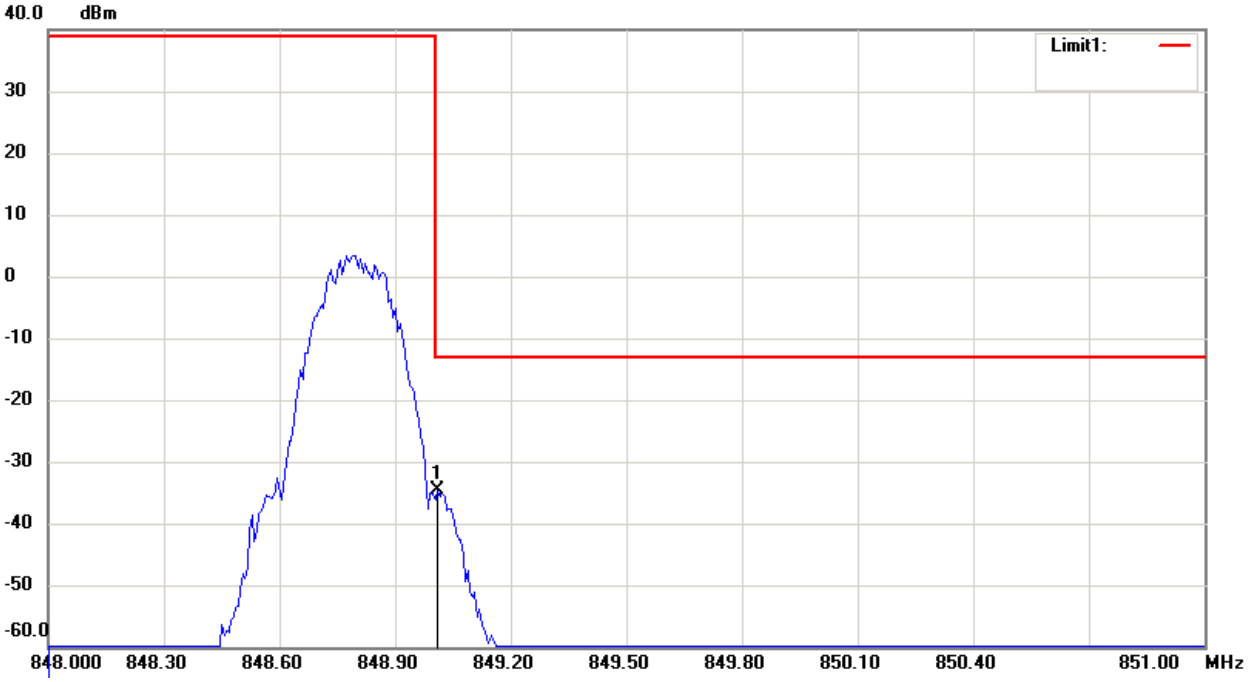
Band edge emissions
850 Band – channel 128
Antenna Polarization H



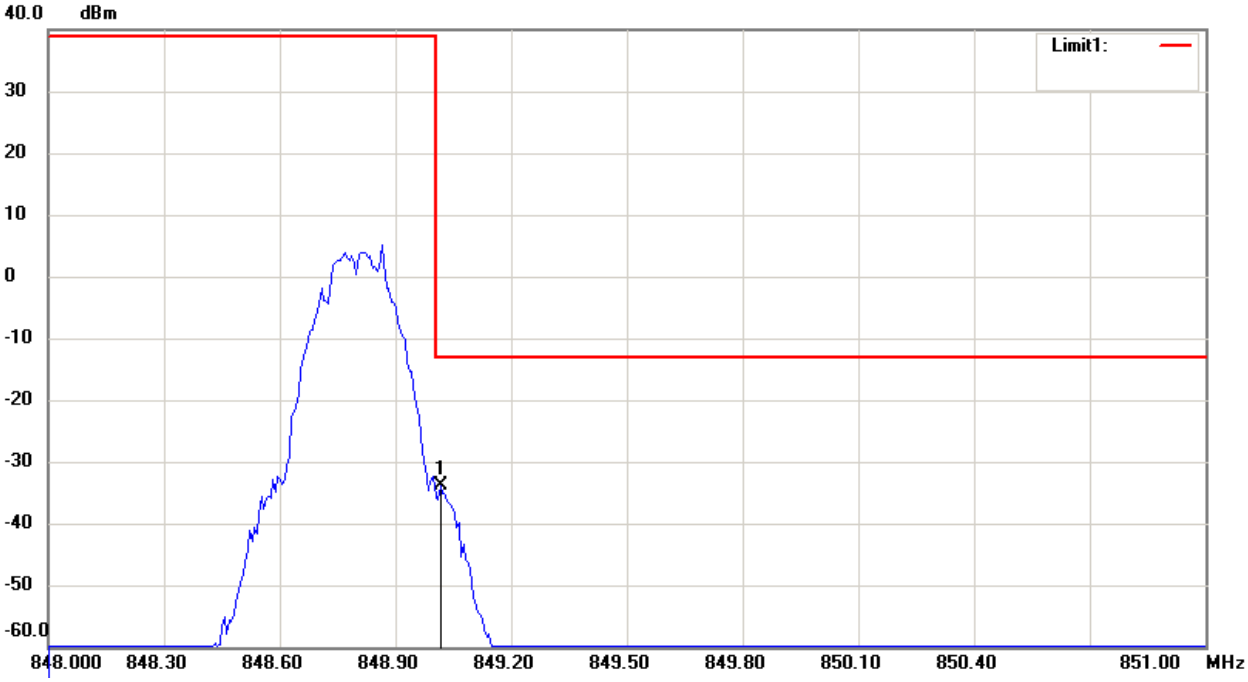
Antenna Polarization V



850 Band – channel 251
Antenna Polarization H

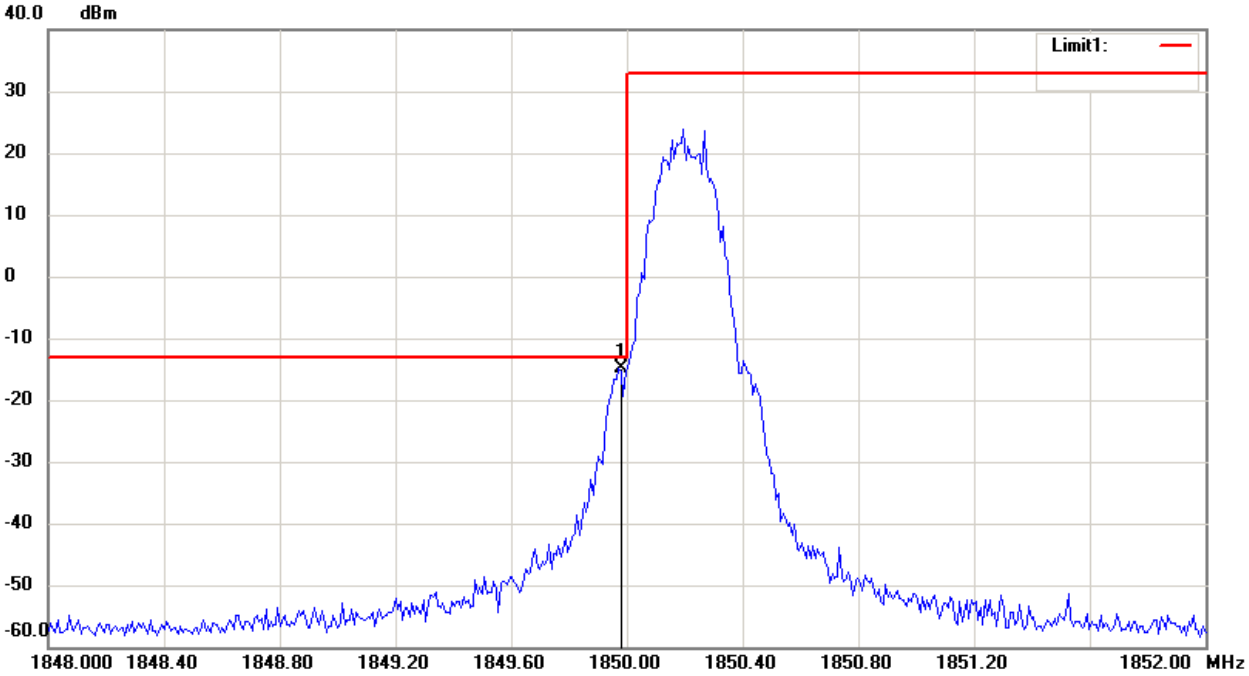


Antenna Polarization V

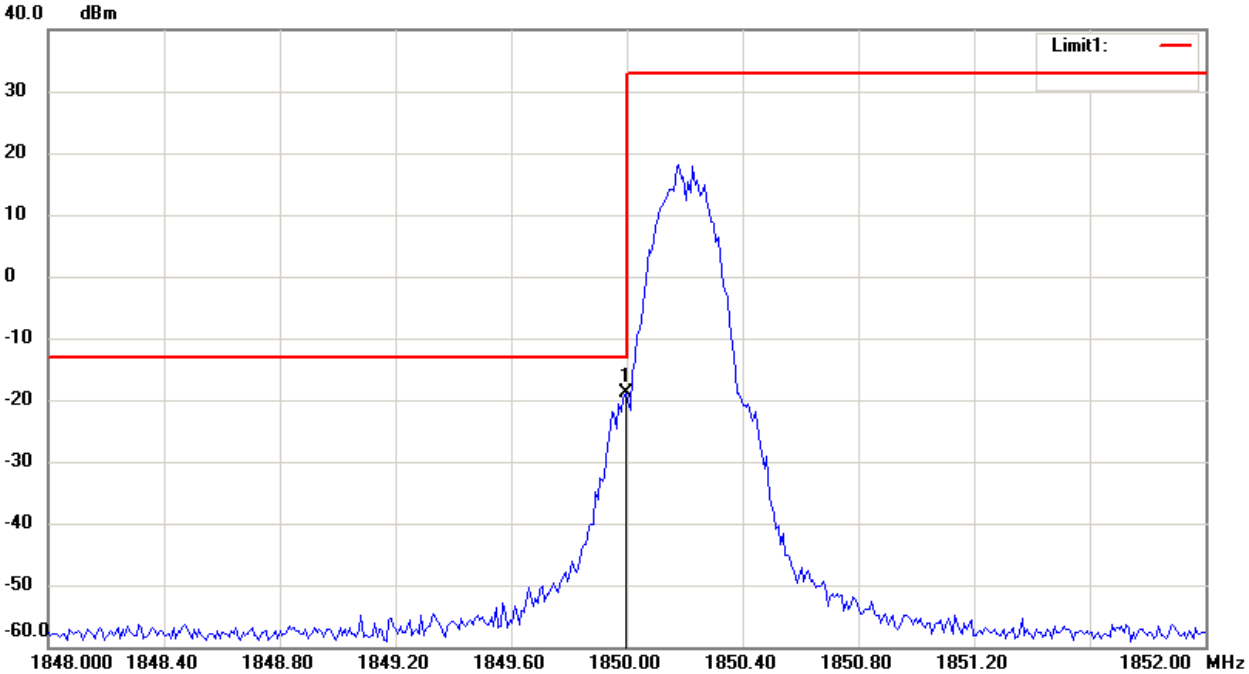


1900 Band – channel 512

Antenna Polarization H

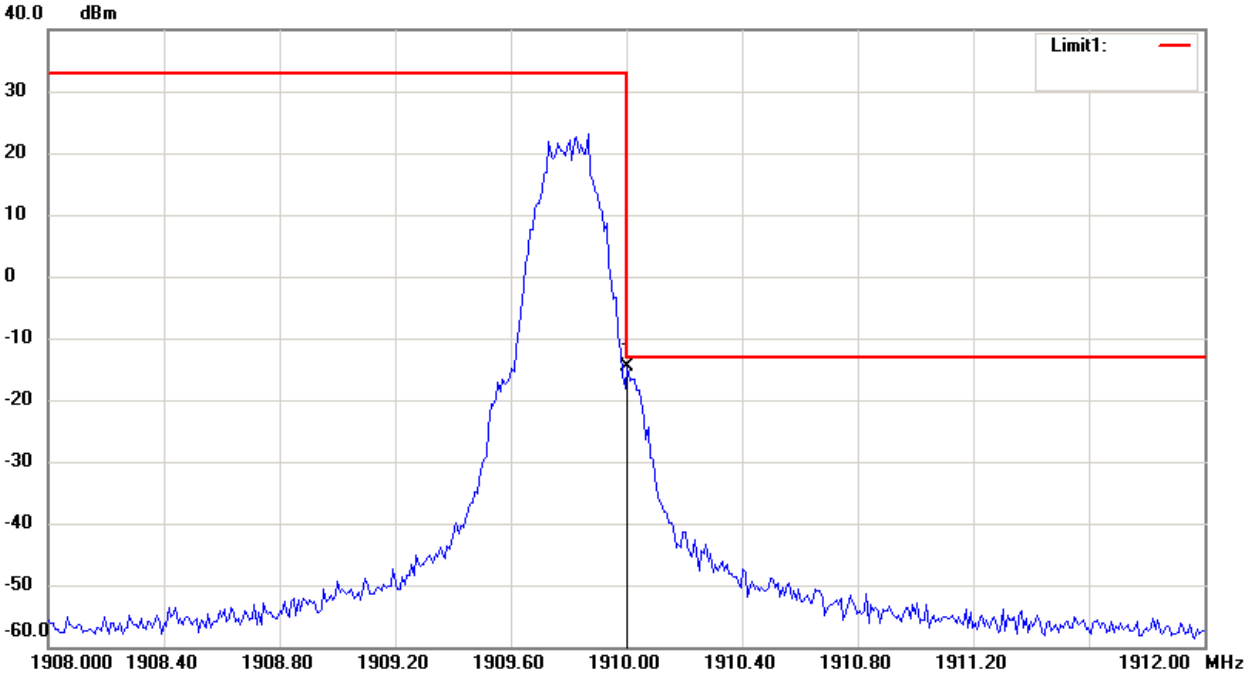


Antenna Polarization V



1900 Band – channel 810

Antenna Polarization H



Antenna Polarization V