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FCC REPORT

Application No:	SZEM1507003993CR
Applicant:	Five Interactive, LLC dba Zendo
Manufacturer/Factory:	Sysgration Electronics Technology (HuiZhou) Company, Limited
Product Name:	Smart Plug
Model No.(EUT):	ASPW-010
Trade Mark:	Zendo
FCC ID:	2AD6PASPW010
Standards:	47 CFR Part 15, Subpart C (2014)
Date of Receipt:	2015-07-31
Date of Test:	2015-07-31 to 2015-08-05
Date of Issue:	2015-09-29
Test Result:	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

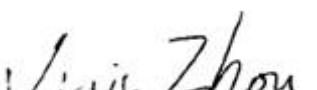
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-09-29		Original

Authorized for issue by:				
Tested By				2015-08-05
		(Eric Fu) /Project Engineer		Date
Prepared By				2015-09-29
		(Vivi Zhou) /Clerk		Date
Checked By				2015-09-29
		(Owen Zhou) /Reviewer		Date

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS

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5 General Information

5.1 Client Information

Applicant:	Five Interactive, LLC dba Zendo
Address of Applicant:	200 South Andrews Avenue, Suite 301 Fort Lauderdale, FL 33301 United States
Manufacturer:	Sysgration Electronics Technology (HuiZhou) Company, Limited
Address of Manufacturer:	YuXin Science Park 3rd Floor, Longshan 7 Rd., XiangShuiHe Industrial Zone, DaYaWan, HuiZhou City, GuangDong Province, China
Factory:	Sysgration Electronics Technology (HuiZhou) Company, Limited
Address of Factory:	YuXin Science Park 3rd Floor, Longshan 7 Rd., XiangShuiHe Industrial Zone, DaYaWan, HuiZhou City, GuangDong Province, China

5.2 General Description of EUT

Product Name:	Smart Plug
Model No.:	ASPW-010
Trade Mark:	Zendo
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK)
Sample Type:	Fixed production
Test software of EUT:	Labtool
Antenna Type and Gain:	Type : Integral antenna Gain : 3.54dBi
Power Supply:	AC 120V 60Hz



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Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
LED Lamp	N/A	N/A
Lamp holder	N/A	N/A

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24	2015-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13





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RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2014-09-16	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2015-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13

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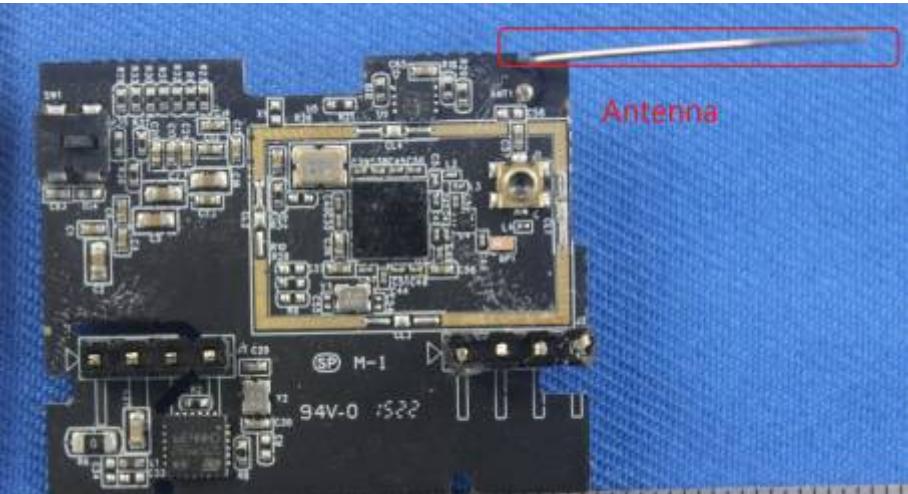
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RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25
8	Band filter	amideon	82346	SEL0094	2015-05-13	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2014-10-24	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24	2015-10-24

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
EUT Antenna:	 The image shows a close-up of a printed circuit board (PCB) with various electronic components. A red box highlights a specific area on the right side, and the word "Antenna" is written in red text next to it, indicating the location of the integrated antenna. The PCB is mounted on a blue textured surface.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.54dBi.



6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none">1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.		

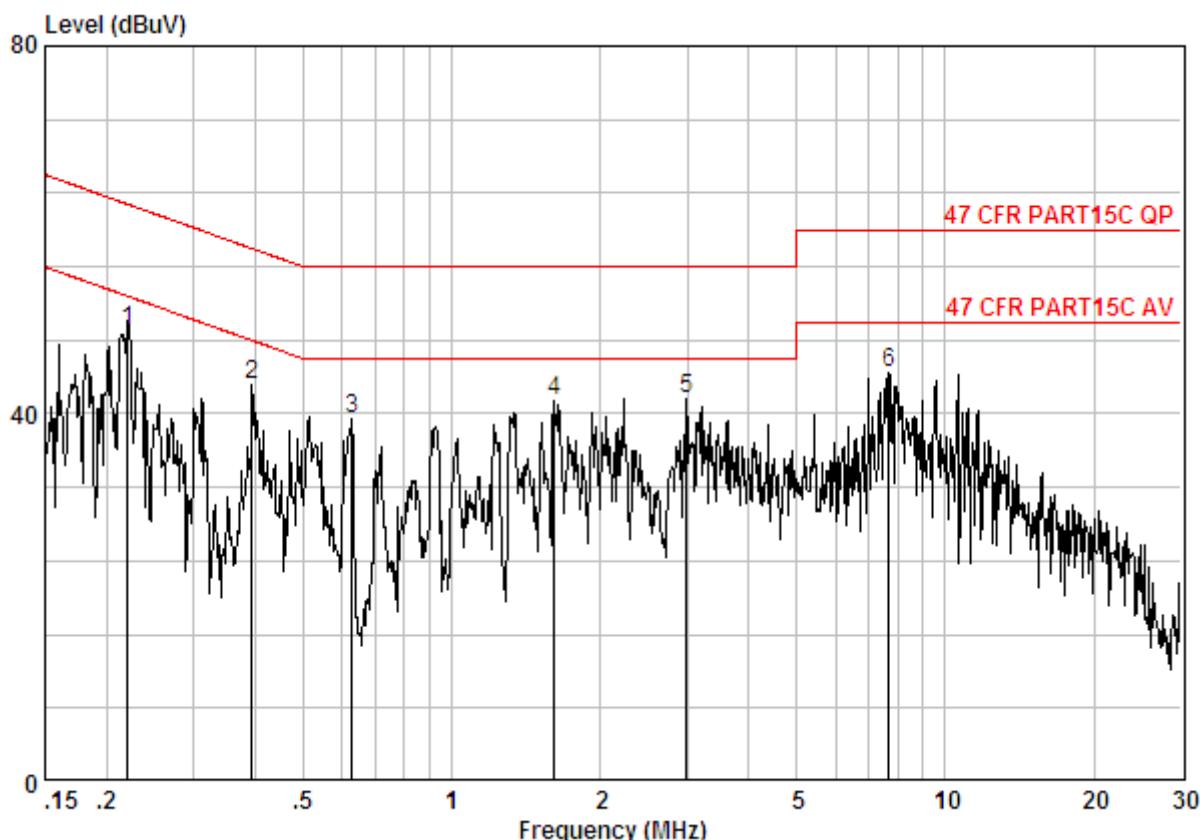
Test Setup:	
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p> <p>Transmitting mode.</p>
Final Test Mode:	<p>Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Powered by AC + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

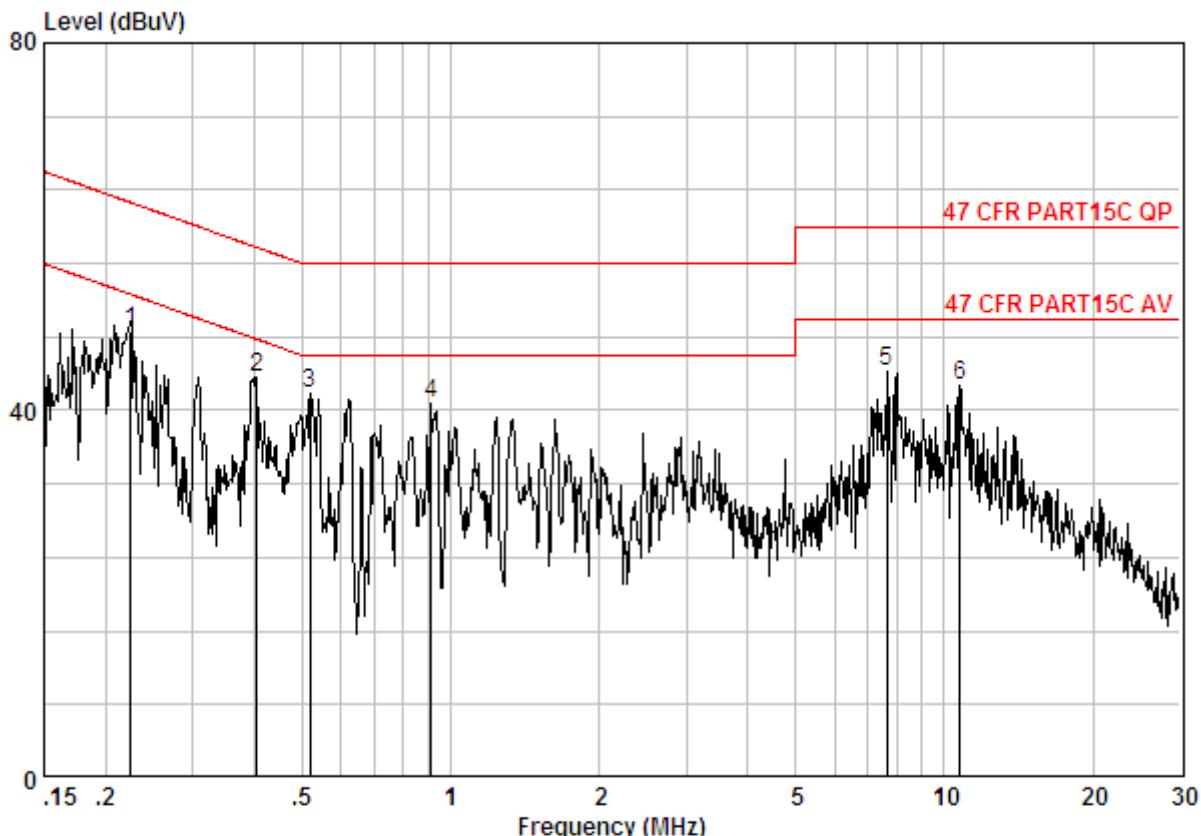
Live Line:



Site : Shielding Room
 Condition : 47 CFR PART15C AV CE LINE
 Job No. : 3993CR
 Test Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	Remark
		MHz	dB	dB			
				dBuV	dBuV	dBuV	dB
1 @	0.22083	0.02	9.83	39.19	49.04	52.79	-3.75 Peak
2	0.39344	0.01	9.85	33.19	43.05	47.99	-4.94 Peak
3	0.62715	0.02	9.87	29.65	39.54	46.00	-6.46 Peak
4	1.610	0.02	9.93	31.42	41.37	46.00	-4.63 Peak
5 @	2.993	0.02	10.03	31.67	41.71	46.00	-4.29 Peak
6	7.687	0.01	10.15	34.23	44.39	50.00	-5.61 Peak

Neutral Line:



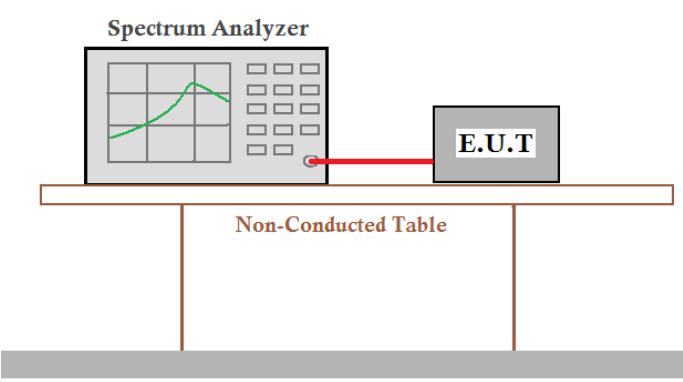
Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 3993CR
Test Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	Over
		Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.22437	0.02	9.85	38.82	48.69	52.66	-3.97 Peak
2	0.40400	0.01	9.87	33.81	43.69	47.77	-4.08 Peak
3	0.51824	0.01	9.89	31.95	41.85	46.00	-4.15 Peak
4	0.91357	0.02	10.01	30.68	40.70	46.00	-5.30 Peak
5	7.646	0.01	10.13	34.16	44.30	50.00	-5.70 Peak
6	10.733	0.01	10.14	32.66	42.82	50.00	-7.18 Peak

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	30dBm
Test Results:	Pass



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Pre-scan under all rate at lowest channel 1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	19.95	19.76	19.65	19.09				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	22.50	22.28	21.82	21.79	21.76	21.70	21.63	21.61
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	22.10	22.03	21.83	21.79	21.76	21.73	21.65	21.57

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).

Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	19.95	30.00	Pass
Middle	19.19	30.00	Pass
Highest	19.00	30.00	Pass

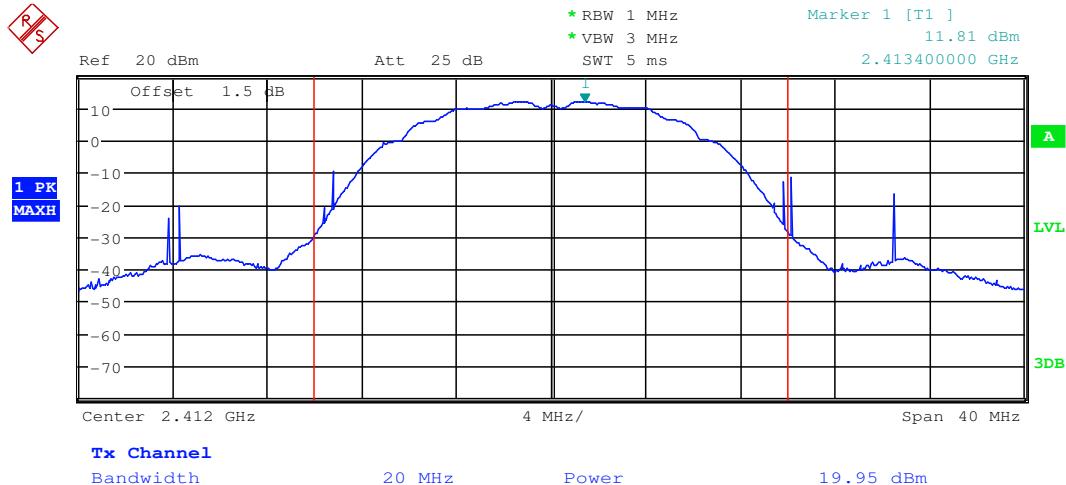
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	22.50	30.00	Pass
Middle	21.85	30.00	Pass
Highest	21.62	30.00	Pass

802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	22.10	30.00	Pass
Middle	21.53	30.00	Pass
Highest	21.29	30.00	Pass

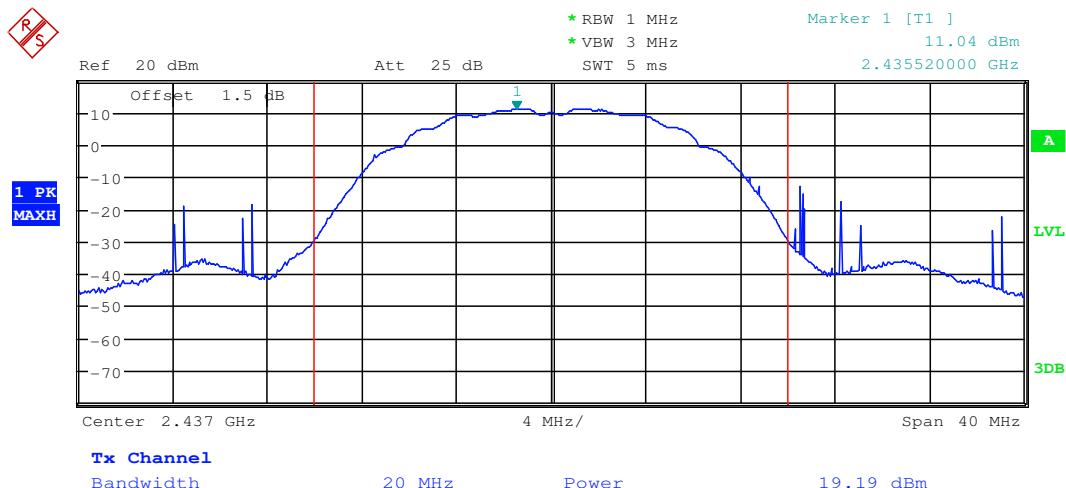


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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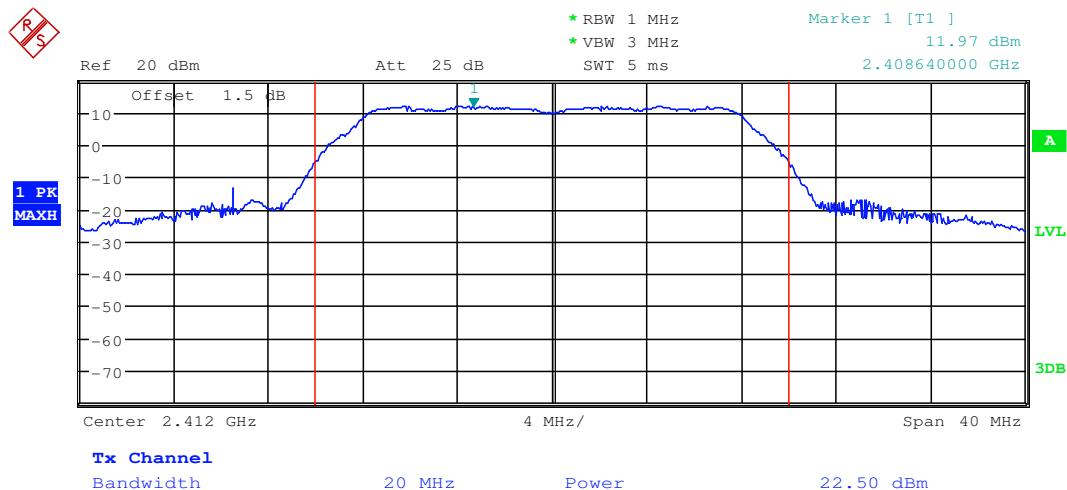
Test mode:	802.11b	Test channel:	Middle
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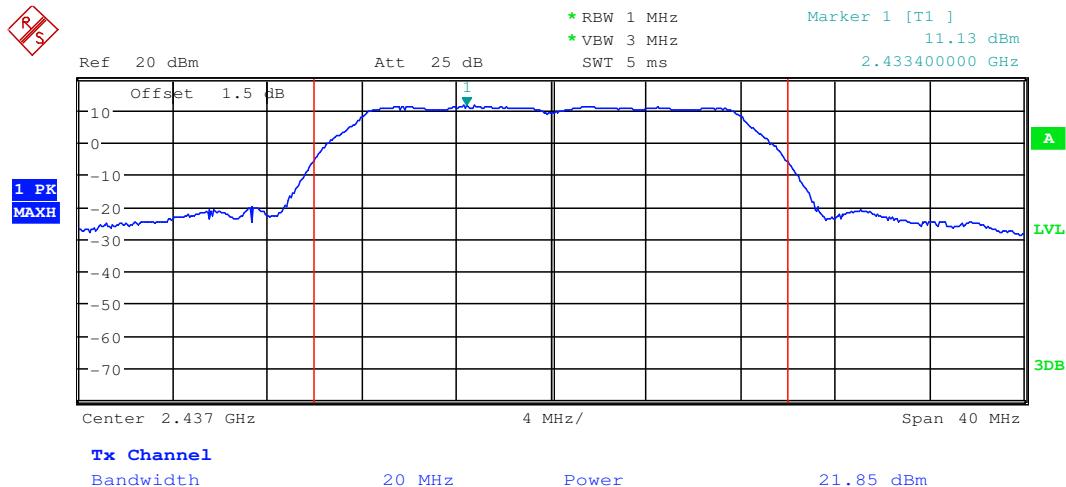
Test mode:	802.11b	Test channel:	Highest
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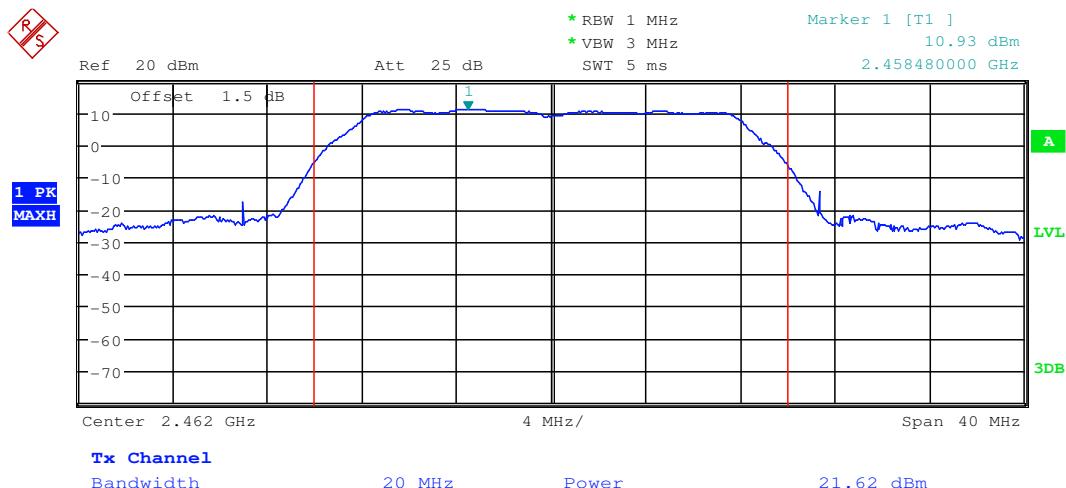
Test mode:	802.11g	Test channel:	Lowest
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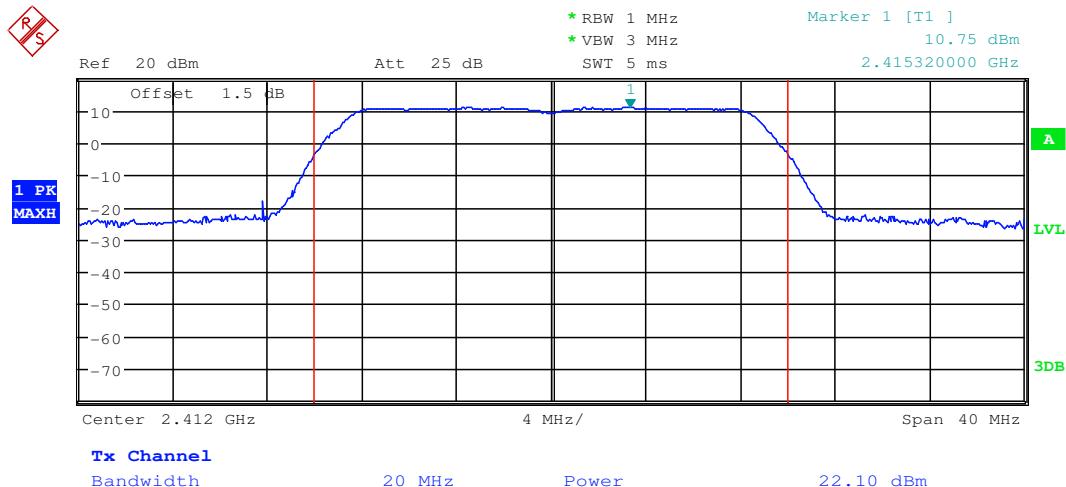
Test mode:	802.11g	Test channel:	Middle
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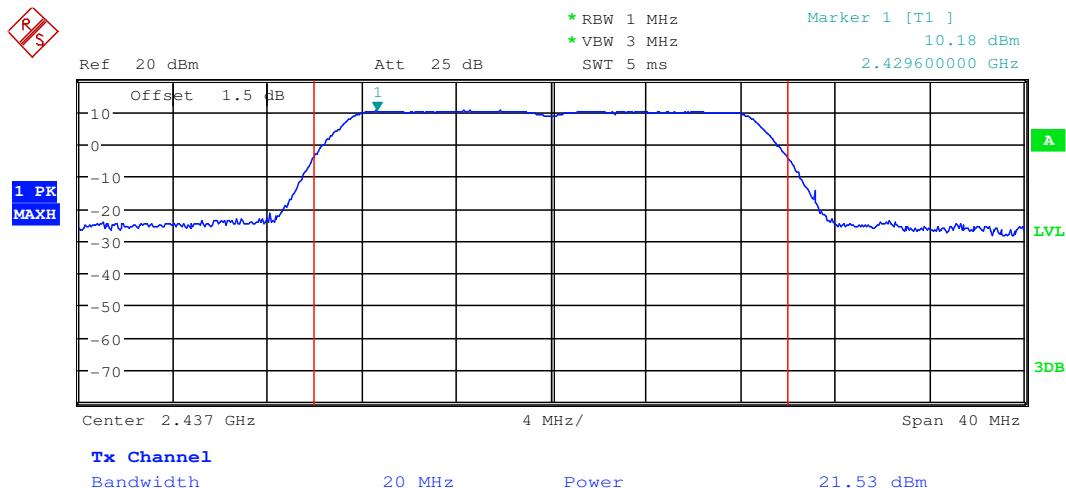
Test mode:	802.11g	Test channel:	Highest
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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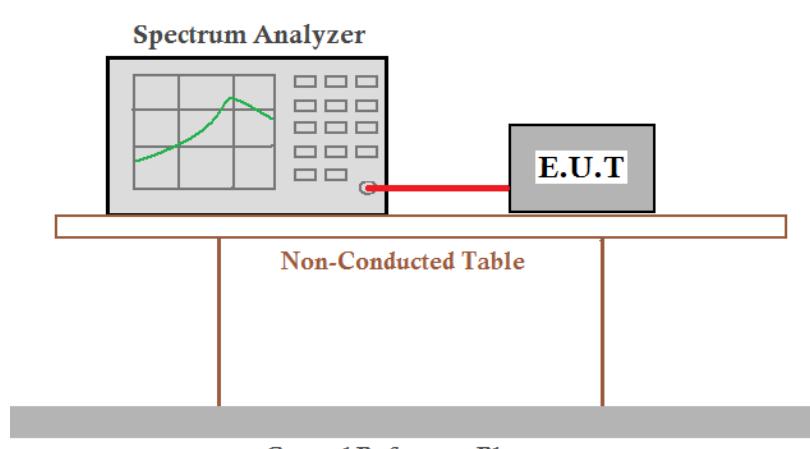
Test mode:	802.11n(HT20)	Test channel:	Middle
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Test mode:	802.11n(HT20)	Test channel:	Highest
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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2009
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	≥ 500 kHz
Test Results:	Pass



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Measurement Data

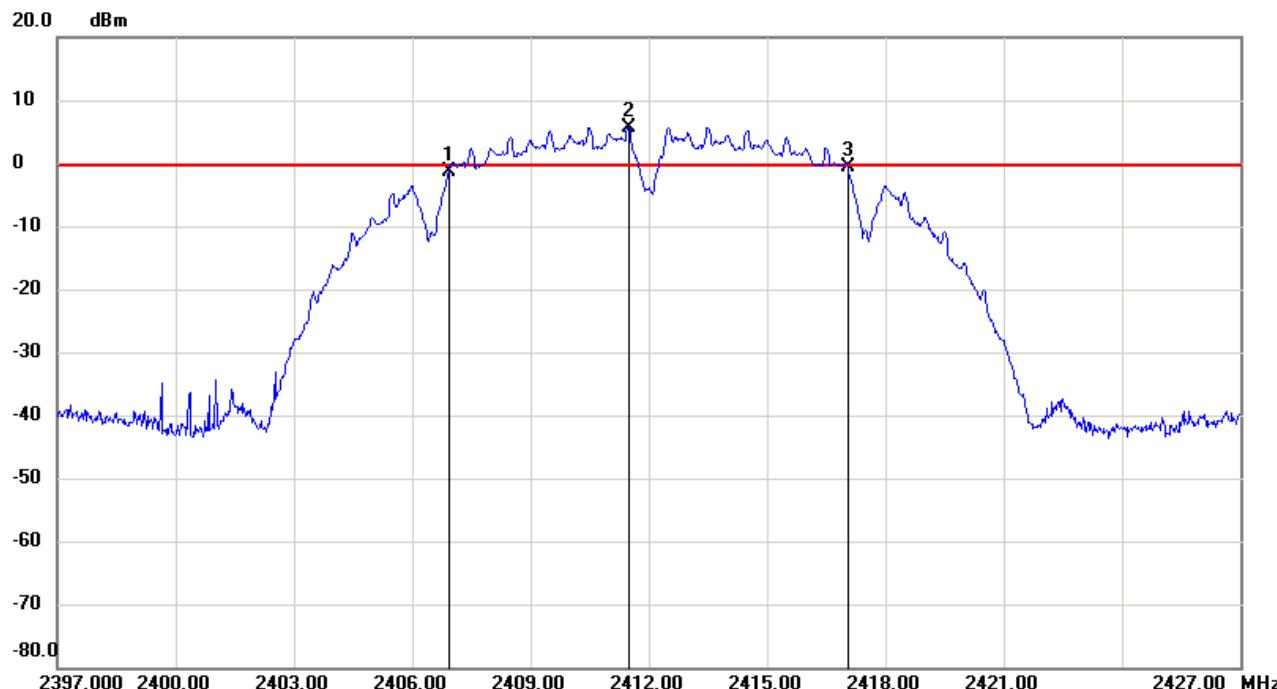
802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.11	≥500	Pass
Middle	10.11	≥500	Pass
Highest	10.11	≥500	Pass

802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.44	≥500	Pass
Middle	16.50	≥500	Pass
Highest	16.53	≥500	Pass

802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.79	≥500	Pass
Middle	17.67	≥500	Pass
Highest	17.85	≥500	Pass

Test plot as follows:

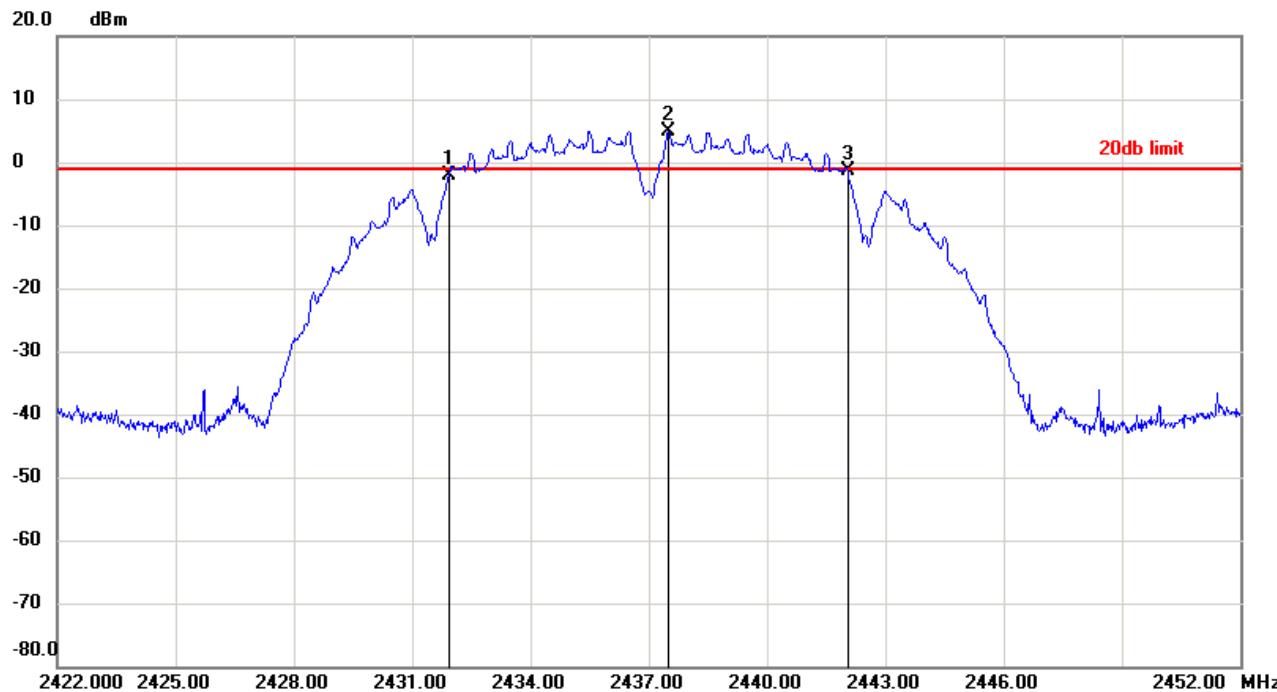
Test mode:	802.11b	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.9300	-1.46	-0.30	-1.16
2	2411.4900	5.70	-0.30	6.00
3	2417.0400	-0.61	-0.30	-0.31

No.		› Frequency(MHz)	› Level(dB)
1	mk3-mk1	10.11	0.85

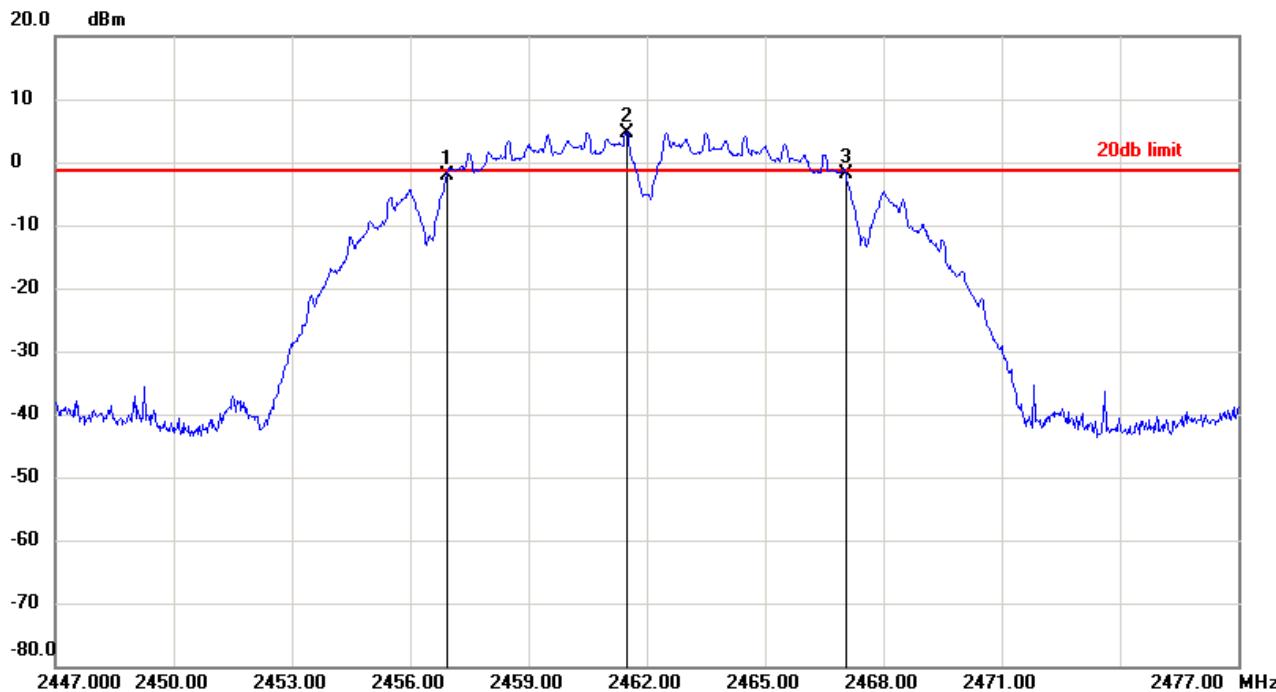
Test mode:	802.11b	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.9300	-2.14	-1.15	-0.99
2	2437.5100	4.85	-1.15	6.00
3	2442.0400	-1.49	-1.15	-0.34

No.		› Frequency(MHz)	› Level(dB)
1	mk3-mk1	10.11	0.65

Test mode:	802.11b	Test channel:	Highest
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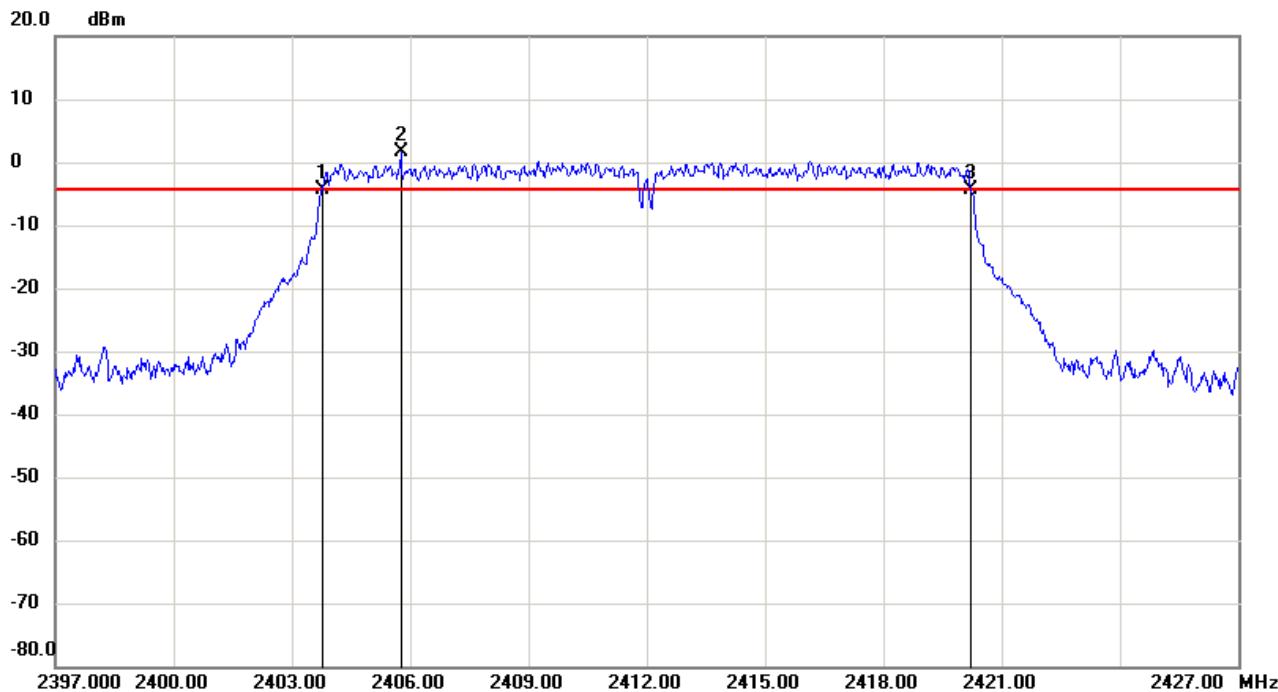


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2456.9300	-2.22	-1.27	-0.95
2	2461.4900	4.73	-1.27	6.00
3	2467.0400	-1.94	-1.27	-0.67

No.		› Frequency(MHz)	› Level(dB)
1	mk3-mk1	10.11	0.28



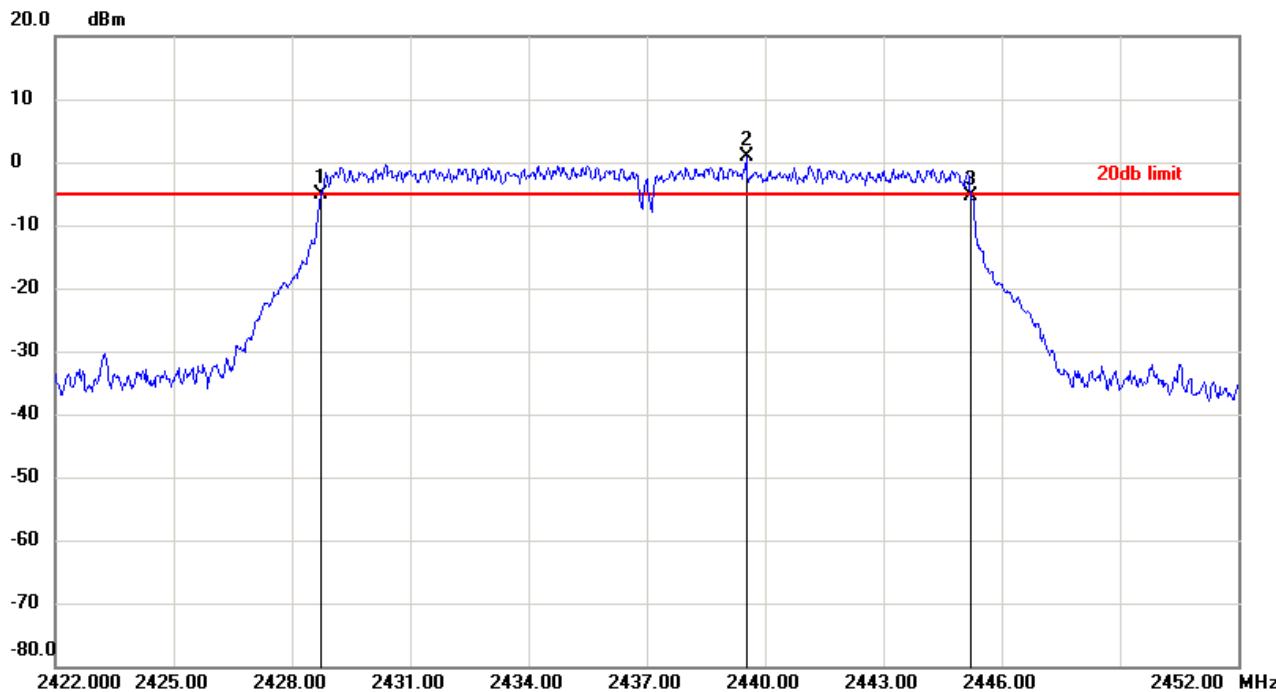
Test mode:	802.11g	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.7800	-4.42	-4.36	-0.06
2	2405.7600	1.64	-4.36	6.00
3	2420.2200	-4.39	-4.36	-0.03

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.44	0.03

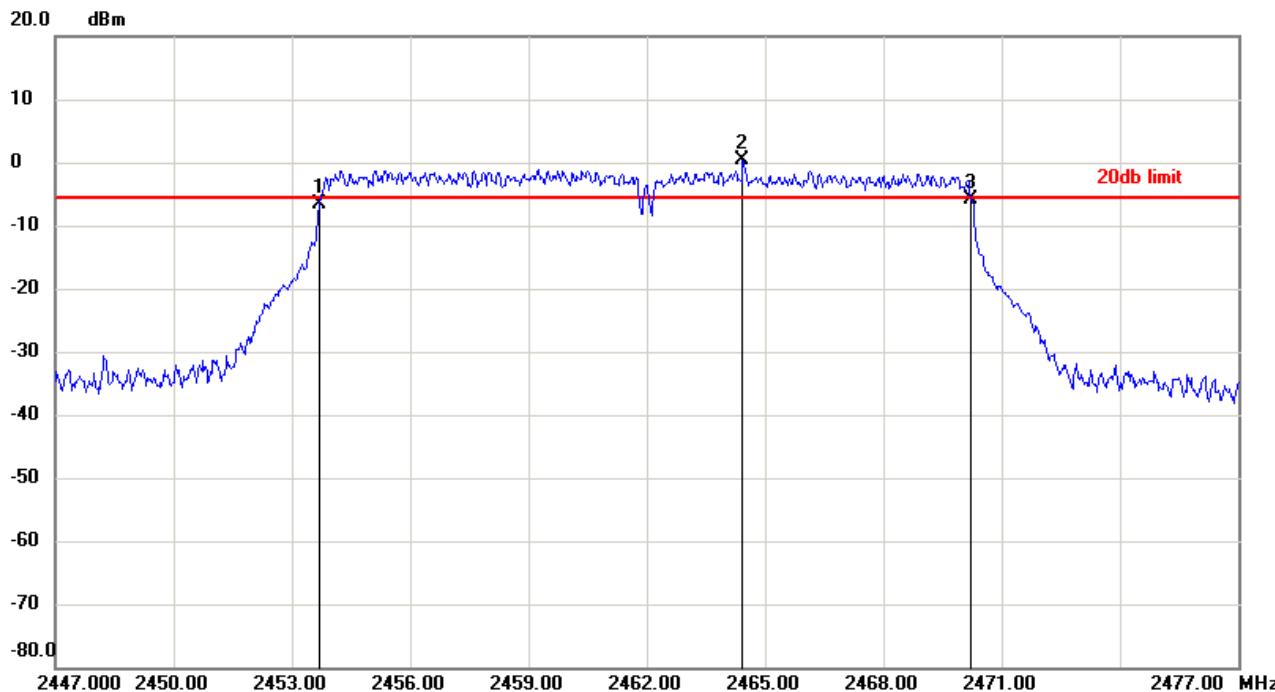
Test mode:	802.11g	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.7200	-5.11	-5.00	-0.11
2	2439.5200	1.00	-5.00	6.00
3	2445.2200	-5.26	-5.00	-0.26

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.50	-0.15

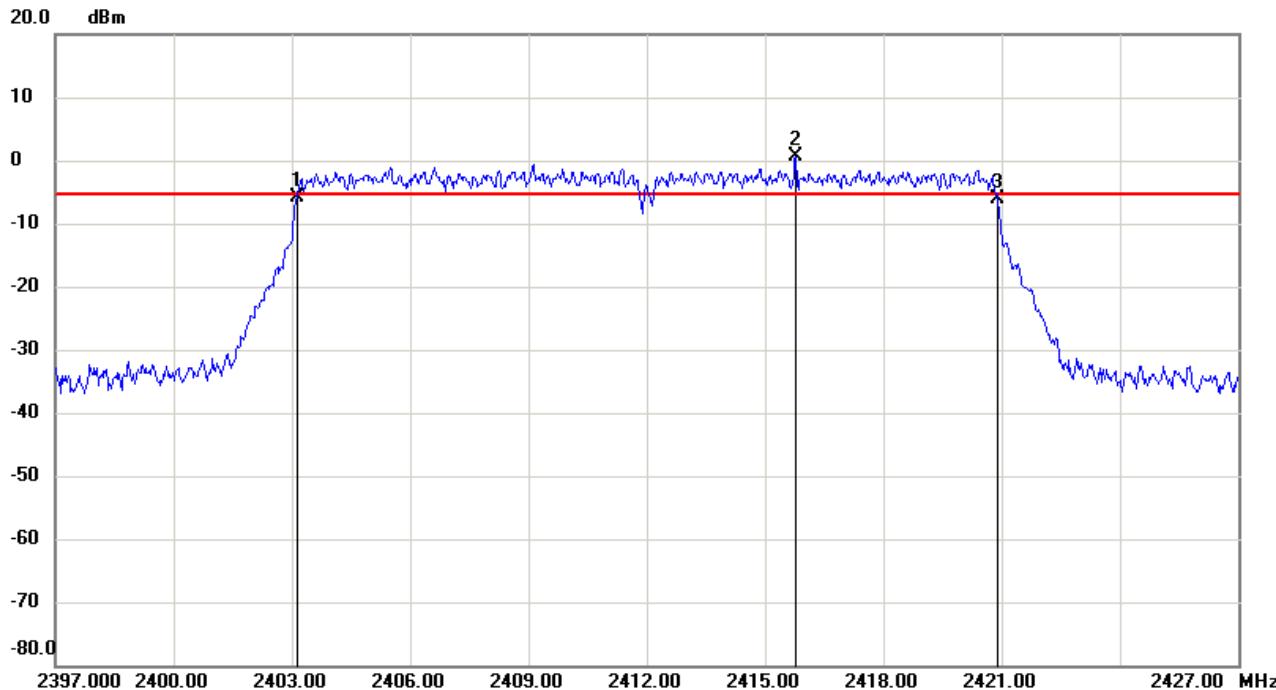
Test mode:	802.11g	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.6900	-6.54	-5.72	-0.82
2	2464.4300	0.28	-5.72	6.00
3	2470.2200	-5.79	-5.72	-0.07

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	16.53

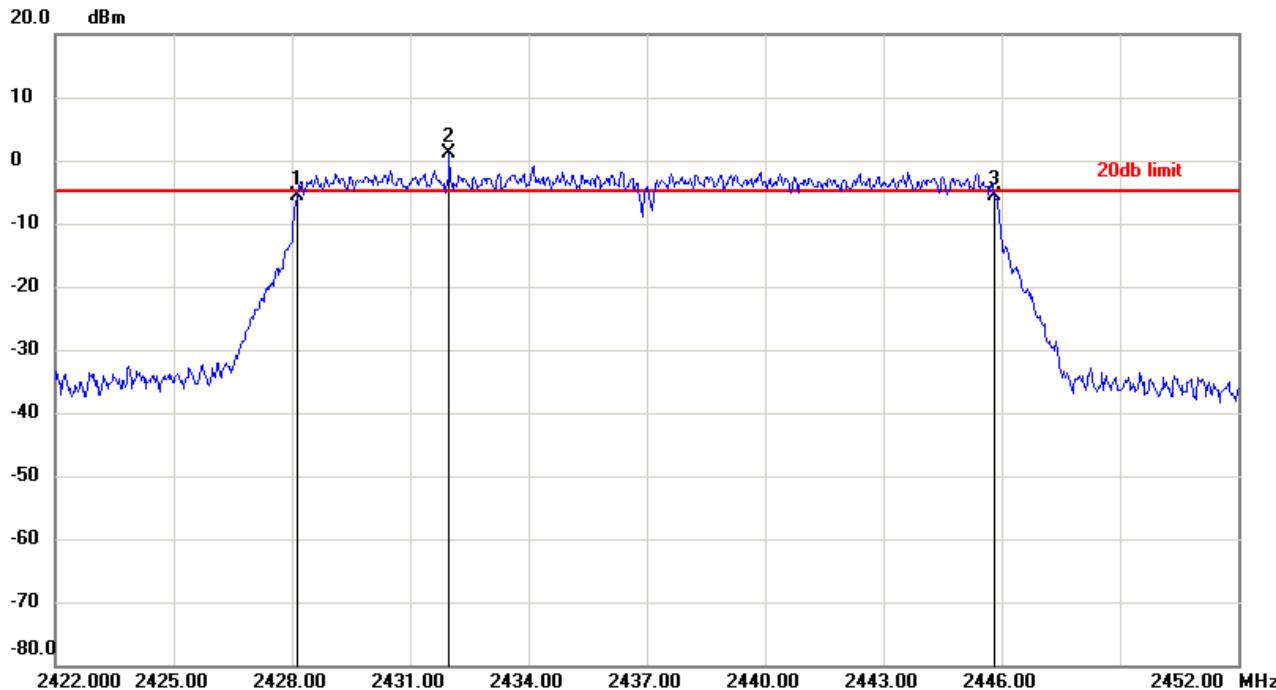
Test mode:	802.11n(HT20)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.1200	-5.76	-5.46	-0.30
2	2415.7800	0.54	-5.46	6.00
3	2420.9100	-6.05	-5.46	-0.59

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.79	-0.29

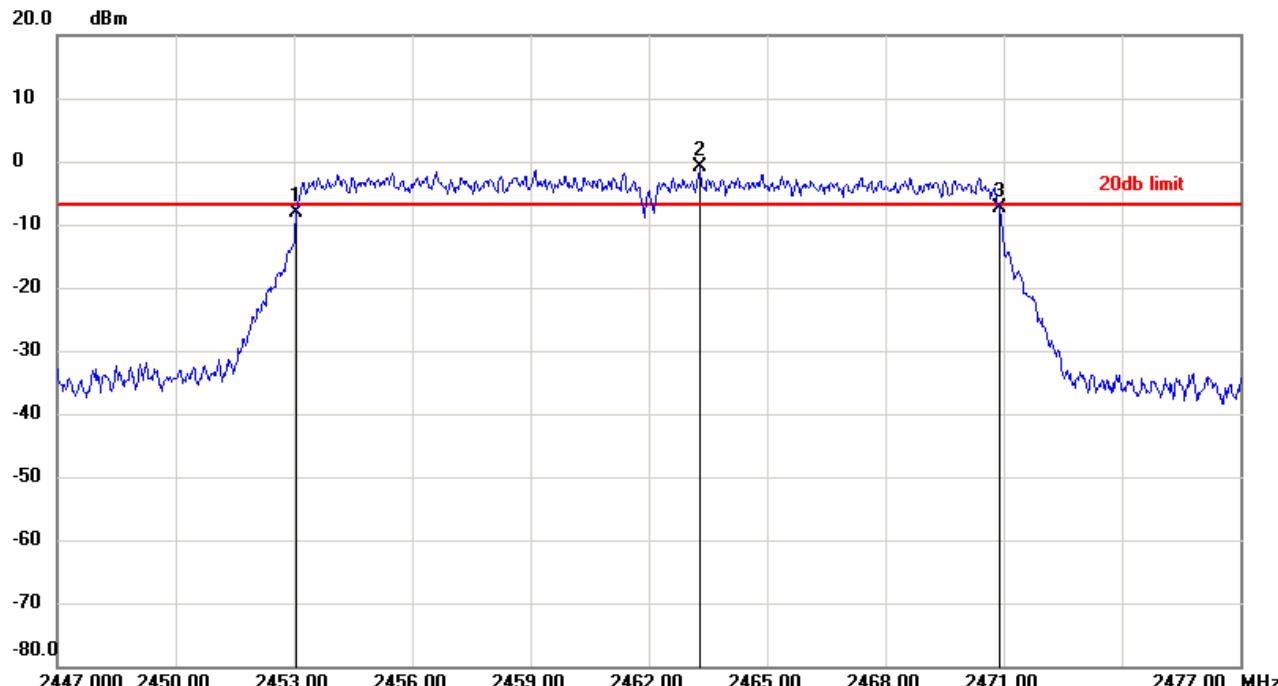
Test mode:	802.11n(HT20)	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.1500	-5.73	-4.78	-0.95
2	2431.9900	1.22	-4.78	6.00
3	2445.8200	-5.51	-4.78	-0.73

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	17.67

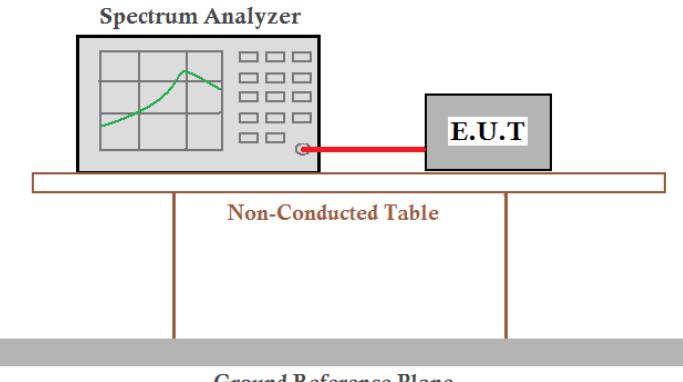
Test mode:	802.11n(HT20)	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.0600	-8.07	-6.86	-1.21
2	2463.2900	-0.86	-6.86	6.00
3	2470.9100	-7.33	-6.86	-0.47

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	17.85

6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass



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Measurement Data

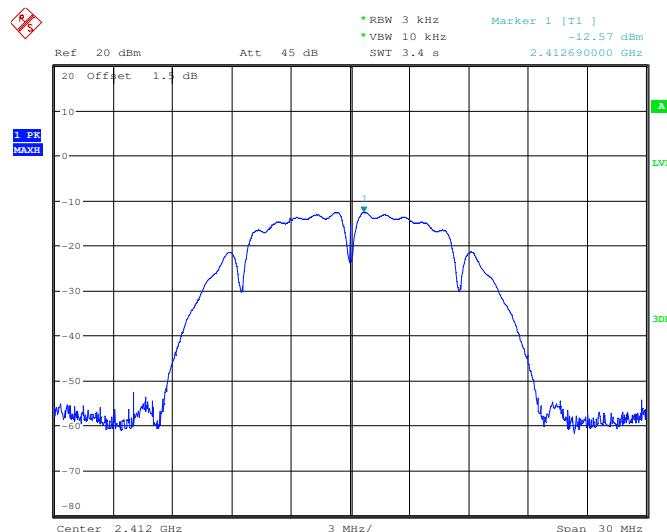
802.11b mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-12.57	≤8.00	Pass
Middle	-13.39	≤8.00	Pass
Highest	-13.58	≤8.00	Pass

802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-6.88	≤8.00	Pass
Middle	-7.54	≤8.00	Pass
Highest	-8.25	≤8.00	Pass

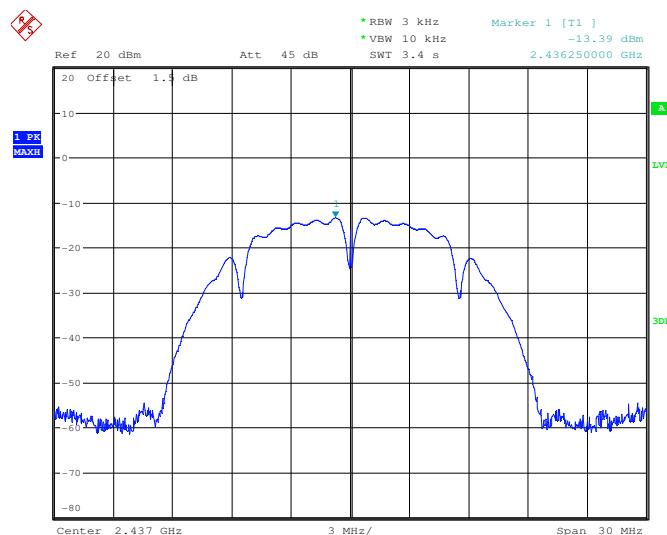
802.11n (HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-8.46	≤8.00	Pass
Middle	-7.75	≤8.00	Pass
Highest	-9.60	≤8.00	Pass

Test plot as follows:

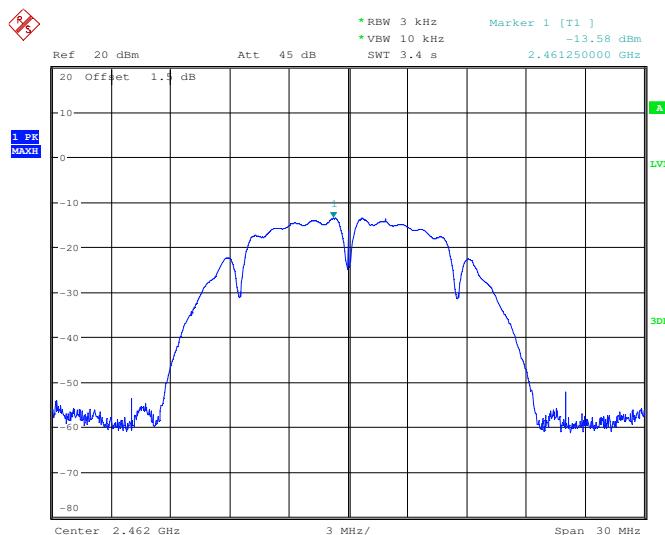
Test mode:	802.11b	Test channel:	Lowest
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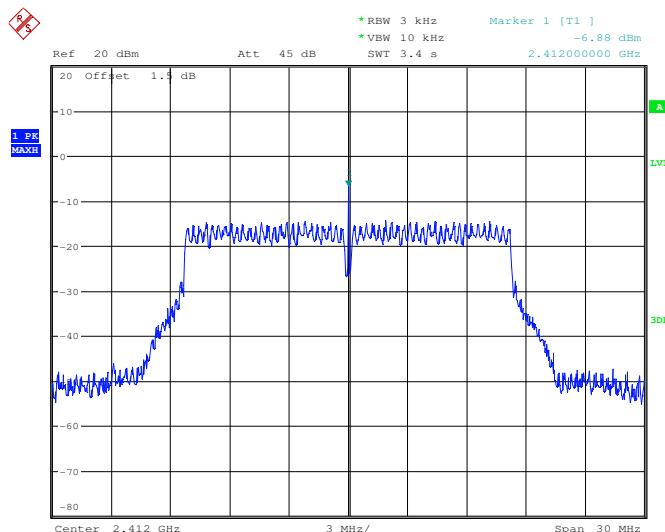
Test mode:	802.11b	Test channel:	Middle
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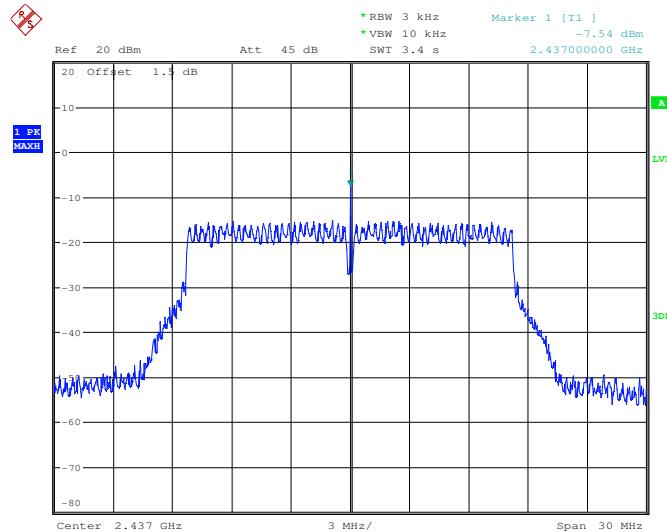
Test mode:	802.11b	Test channel:	Highest
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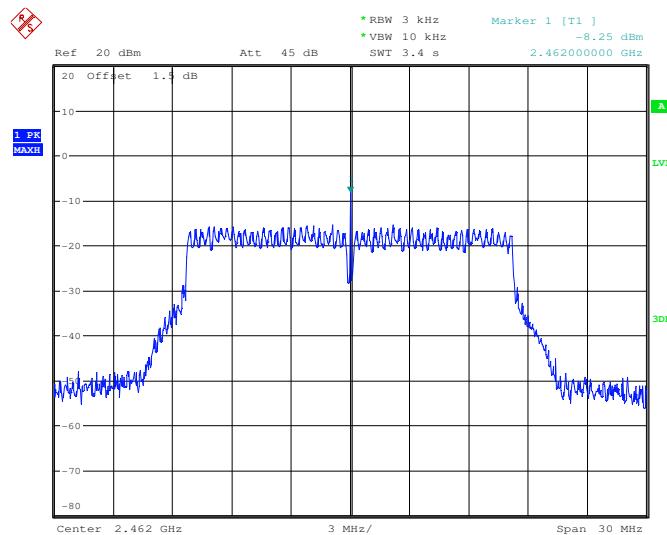
Test mode:	802.11g	Test channel:	Lowest
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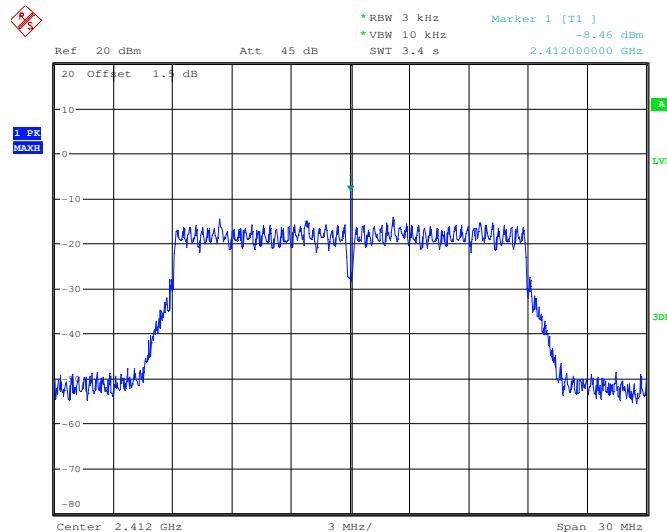
Test mode:	802.11g	Test channel:	Middle
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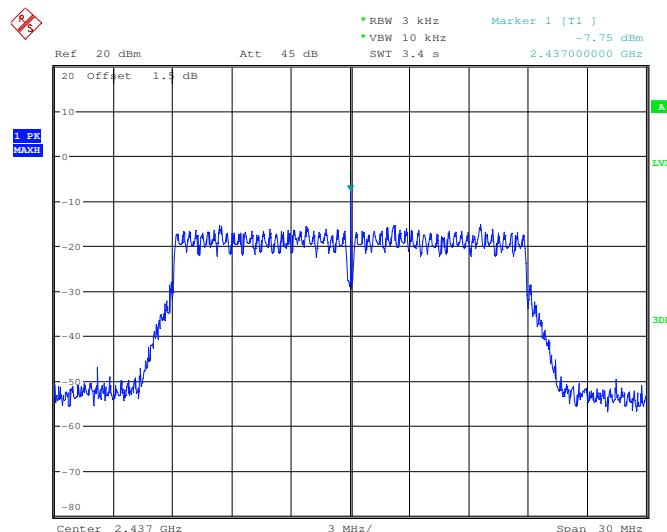
Test mode:	802.11g	Test channel:	Highest
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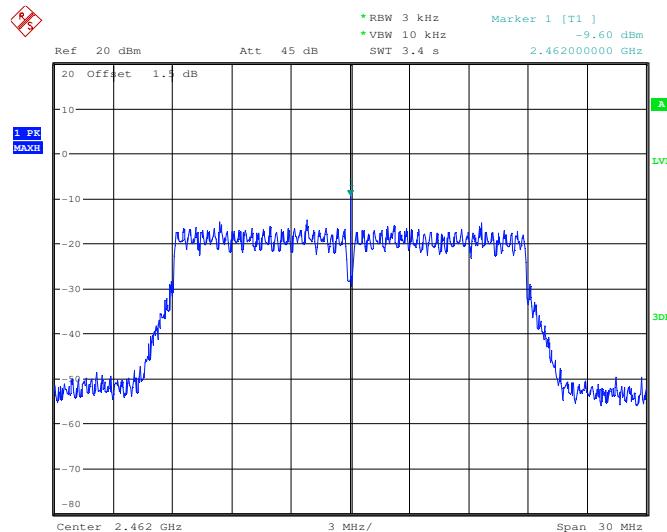
Test mode:	802.11n (HT20)	Test channel:	Lowest
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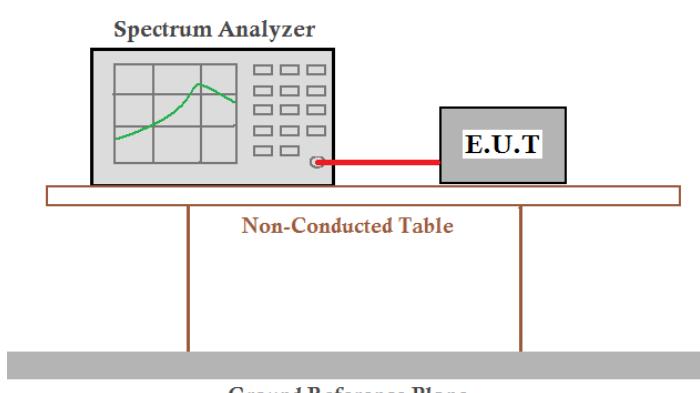
Test mode:	802.11n (HT20)	Test channel:	Middle
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Test mode:	802.11n (HT20)	Test channel:	Highest
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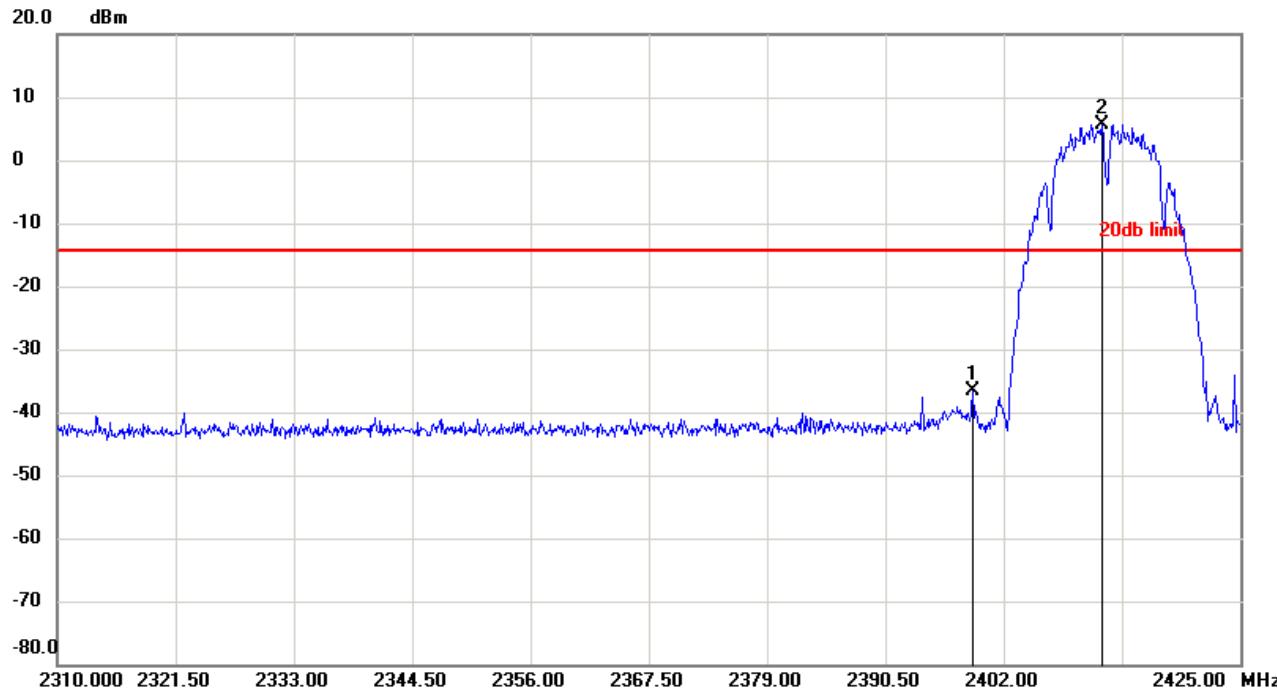


6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Remark: <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

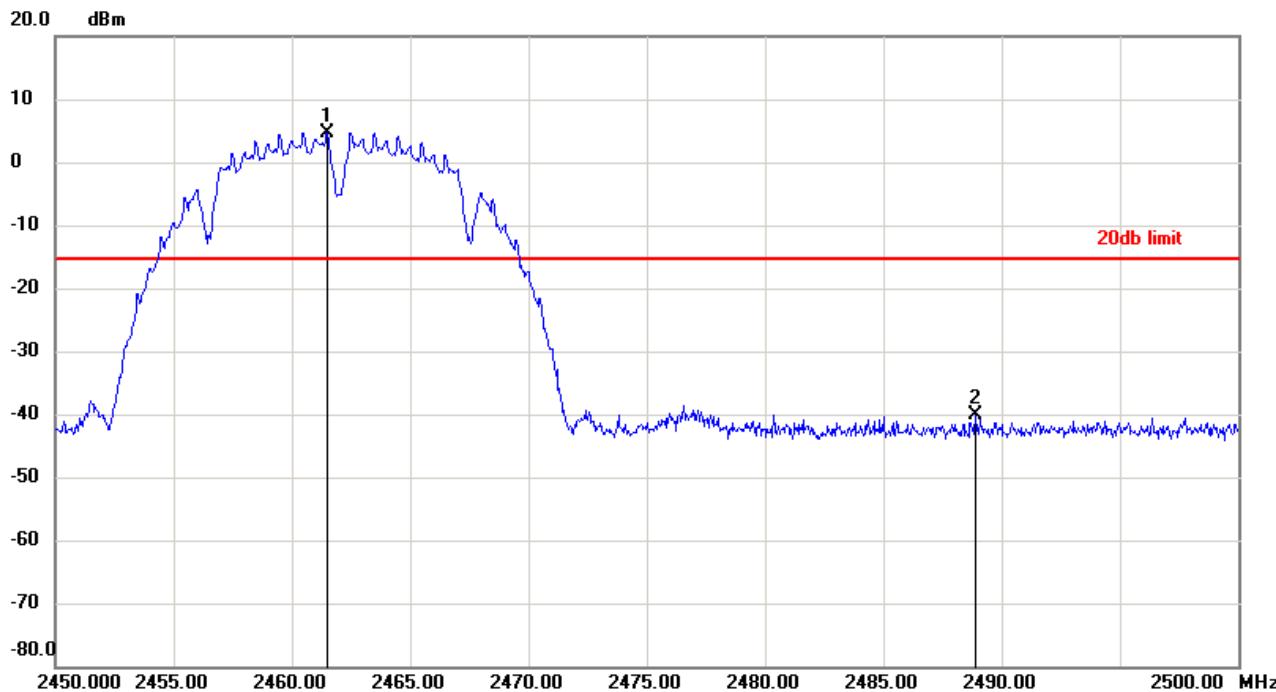
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2399.0100	-36.66	-14.26	-22.40
2	2411.5450	5.74	-14.26	20.00

Test mode:	802.11b	Test channel:	Highest
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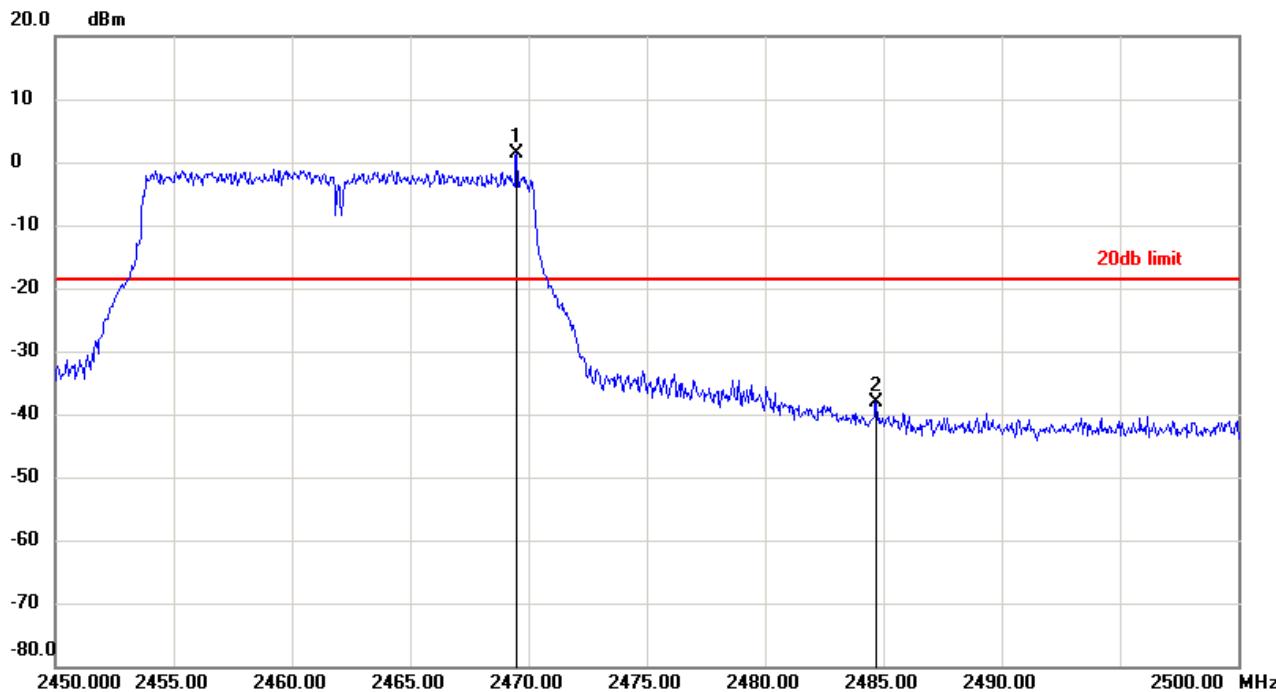
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2461.5000	4.68	-15.32	20.00
2	2488.9000	-40.22	-15.32	-24.90

Test mode:	802.11g	Test channel:	Lowest
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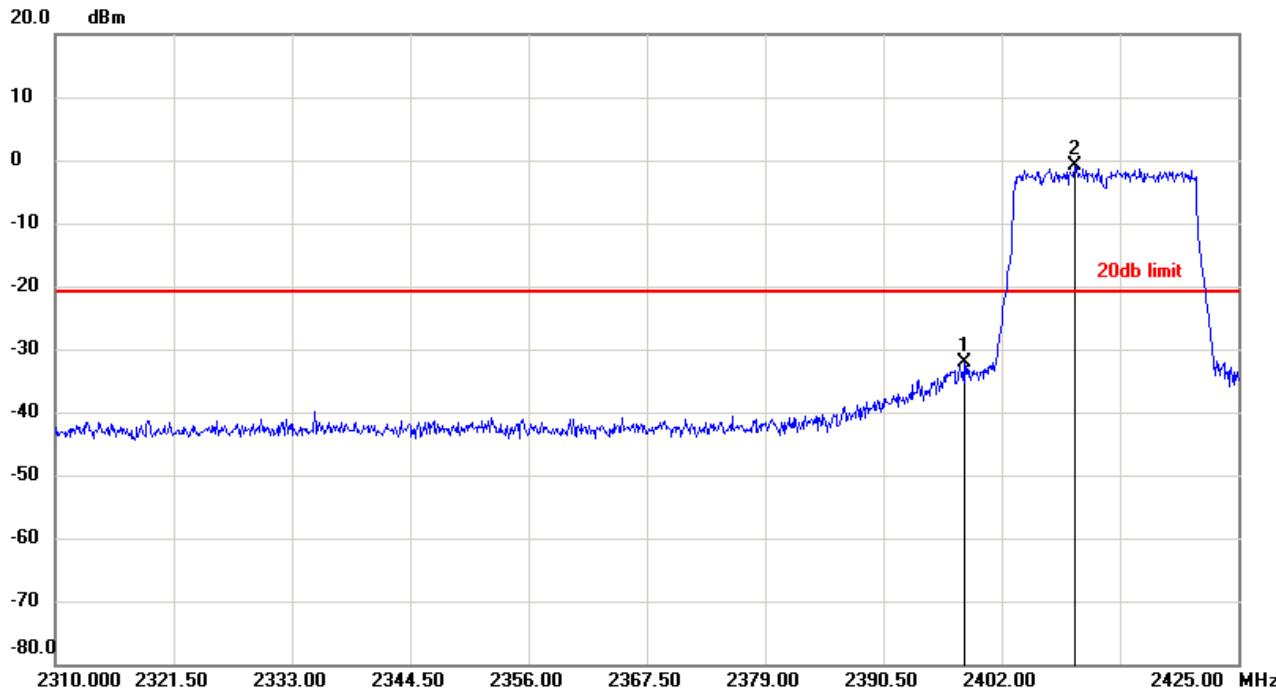
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2398.3200	-29.61	-20.17	-9.44
2	2409.8200	-0.17	-20.17	20.00

Test mode:	802.11g	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2469.5000	1.40	-18.60	20.00
2	2484.7000	-38.13	-18.60	-19.53

Test mode:	802.11n (HT20)	Test channel:	Lowest
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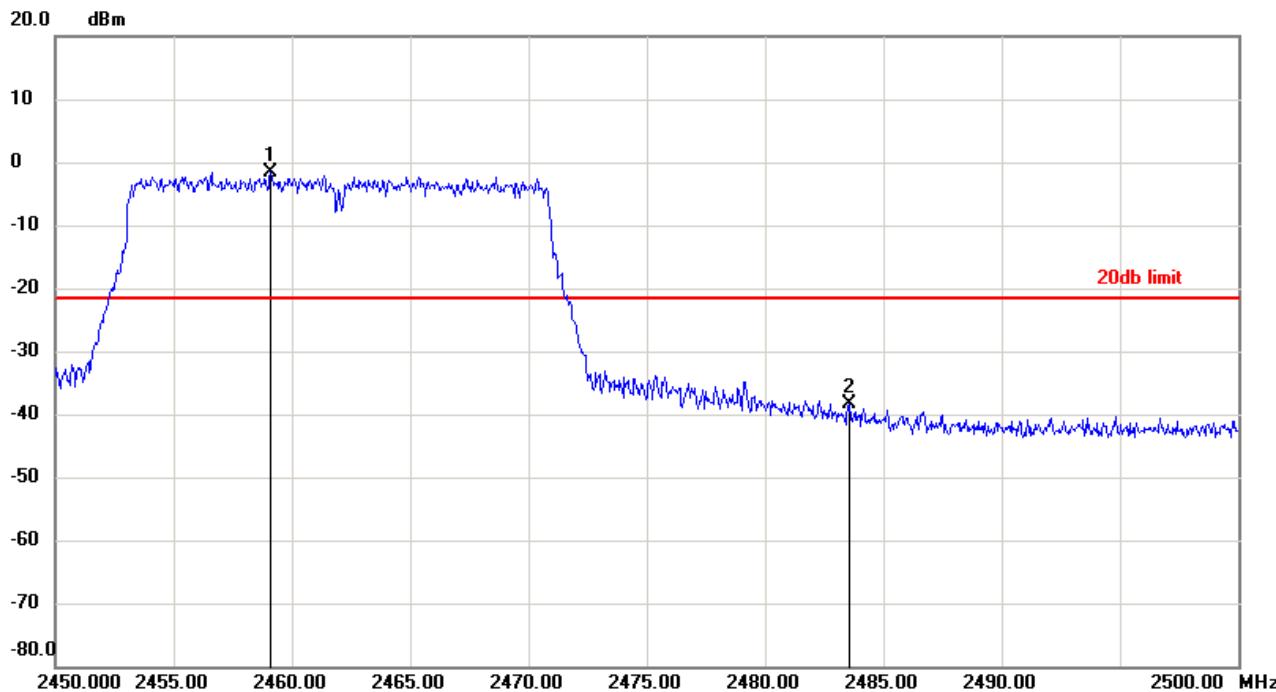
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2398.3200	-32.13	-20.89	-11.24
2	2409.1300	-0.89	-20.89	20.00



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Test mode:	802.11n (HT20)	Test channel:	Highest
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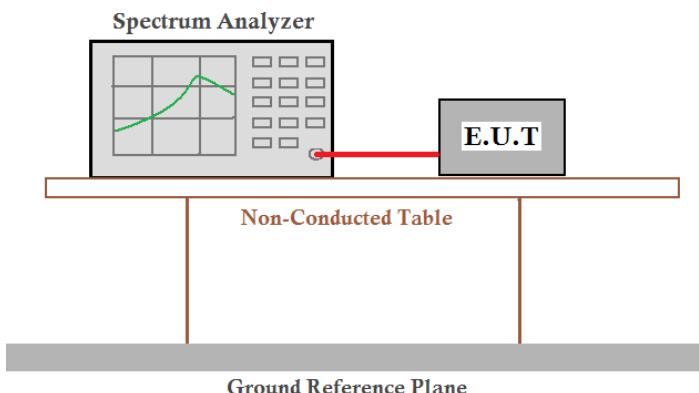


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.1000	-1.63	-21.63	20.00
2	2483.5500	-38.42	-21.63	-16.79



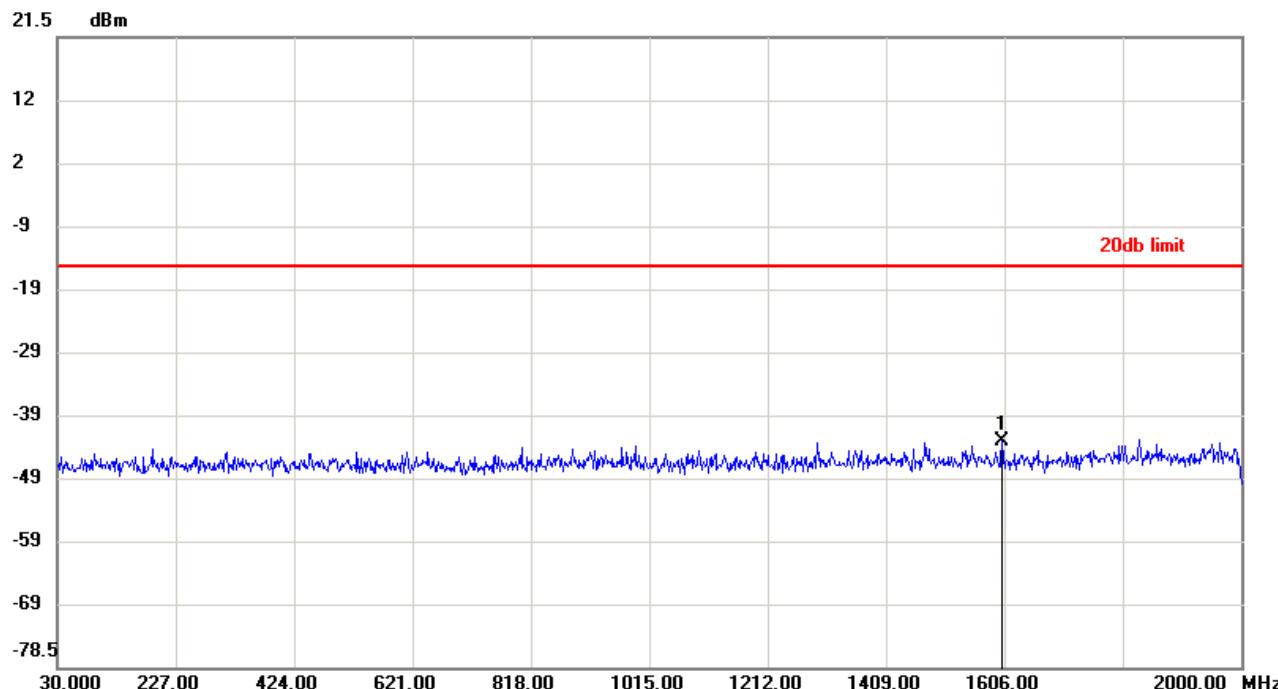
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6.7 RF Conducted Spurious Emissions

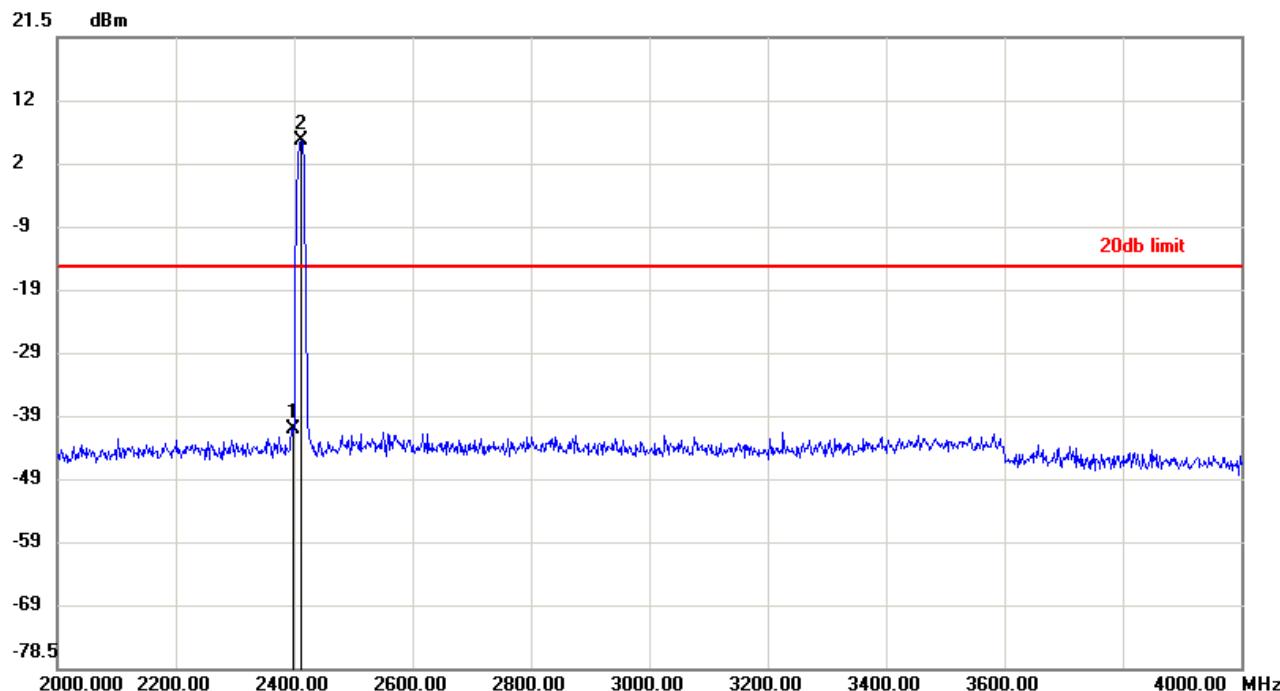
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>Remark: <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

Test plot as follows:

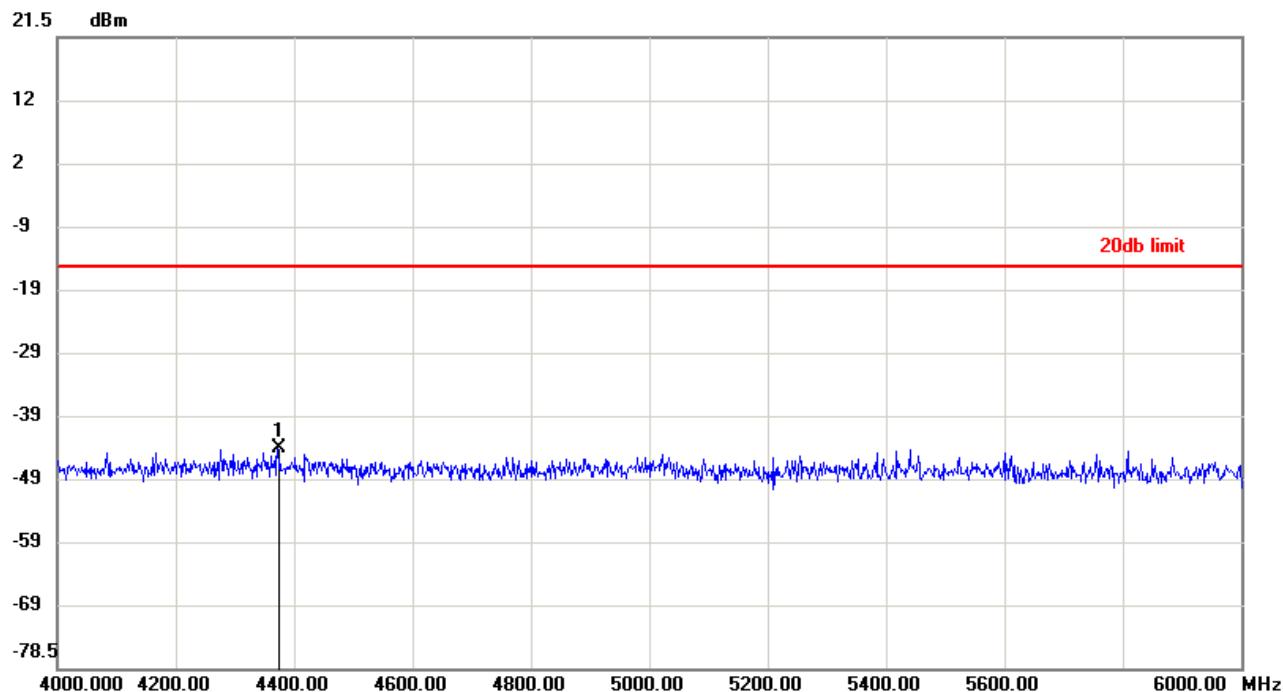
Test mode:	802.11b	Test channel:	Lowest
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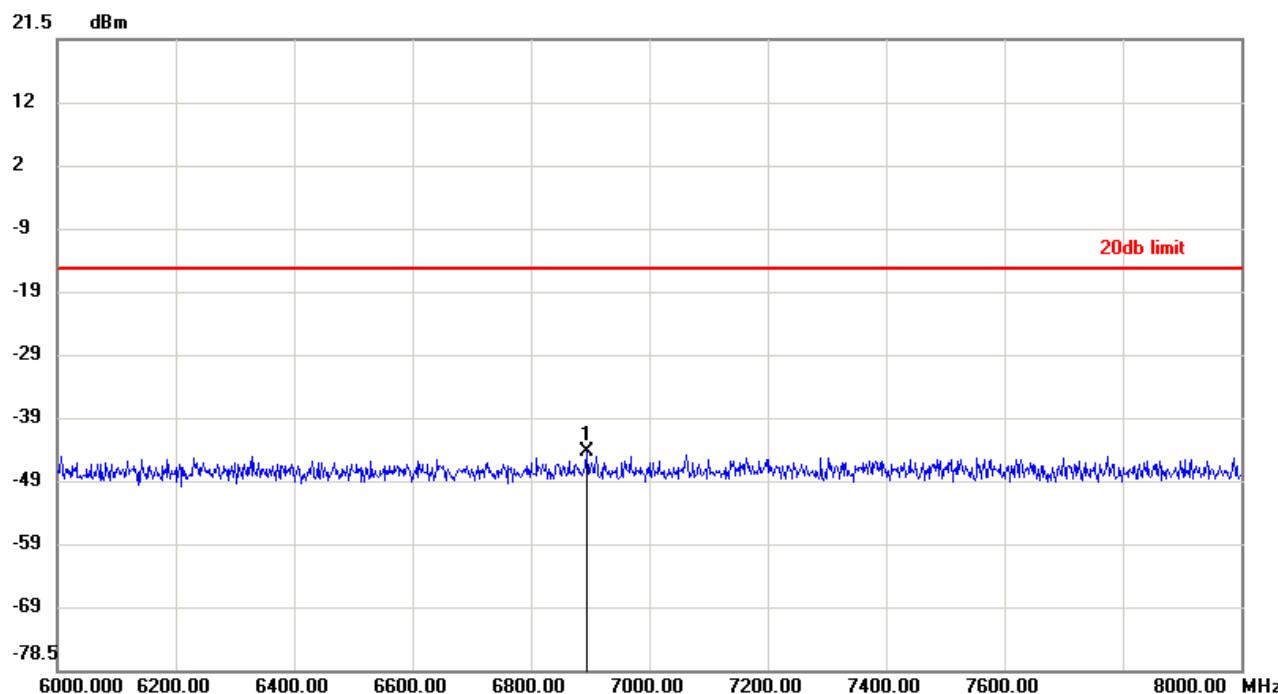
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1603.2420	-42.59	-14.95	-27.64



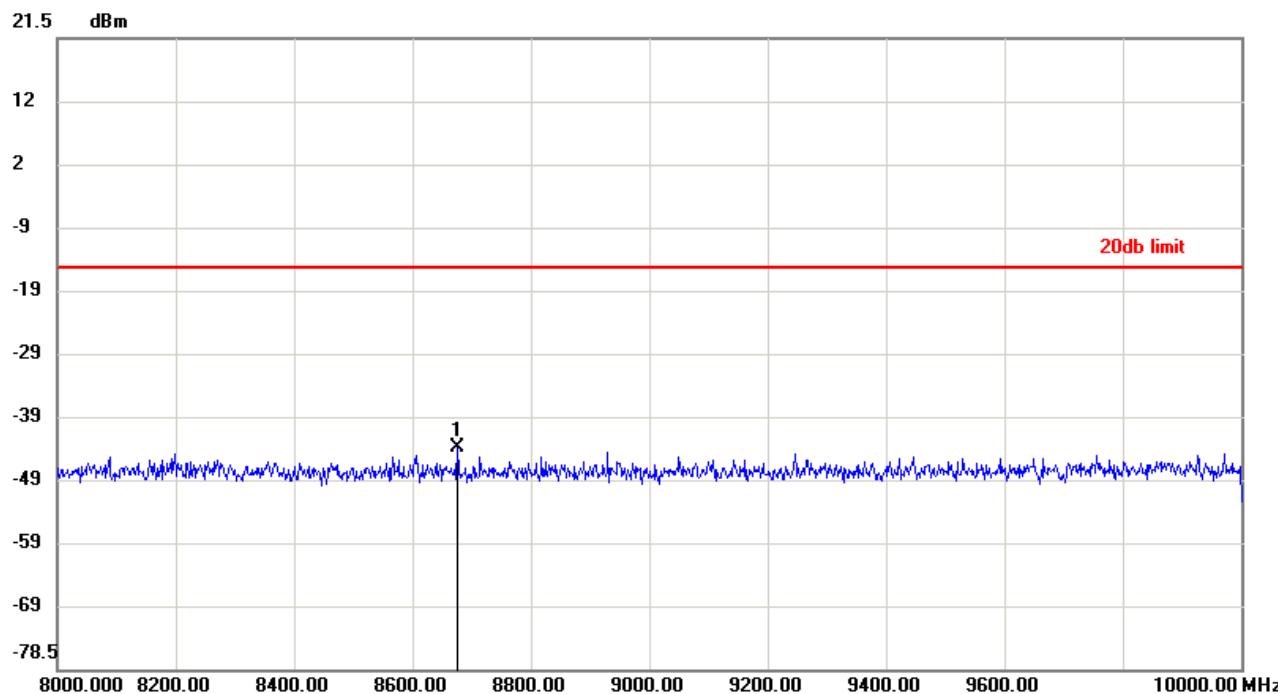
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2397.2667	-40.66	-14.95	-25.71
2	2413.4000	5.05	-14.95	20.00



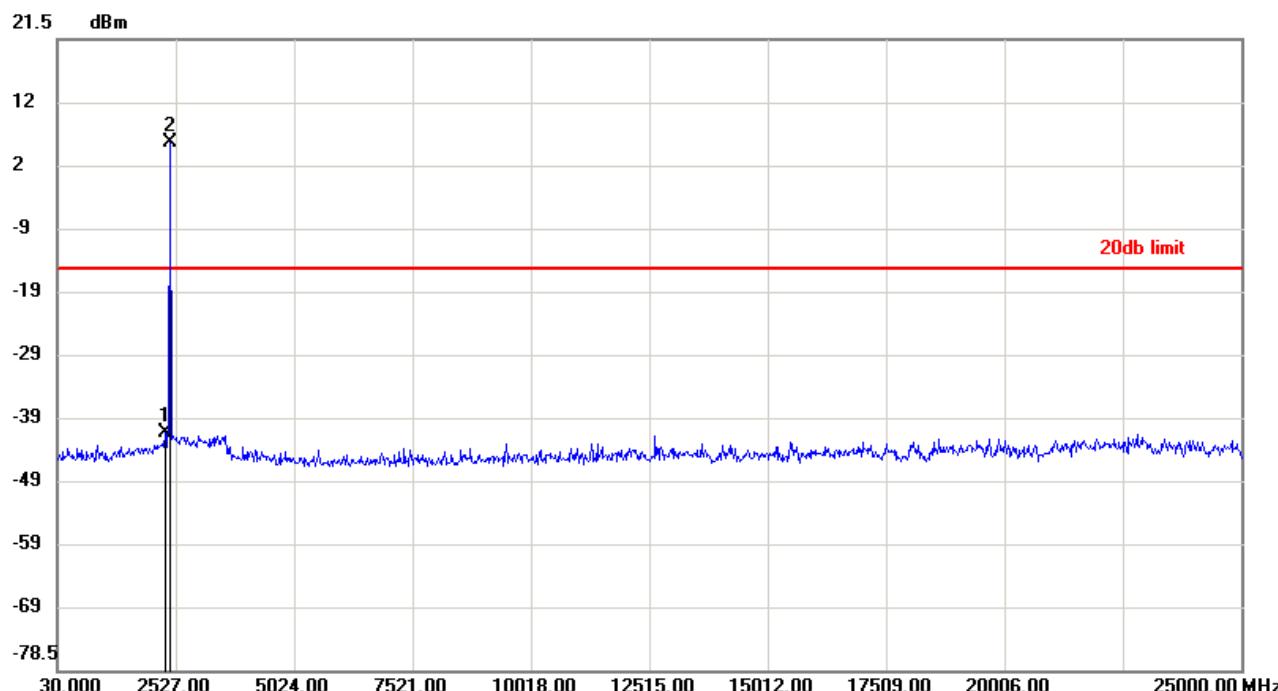
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4372.0667	-43.64	-14.95	-28.69



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6894.1333	-43.95	-14.95	-29.00

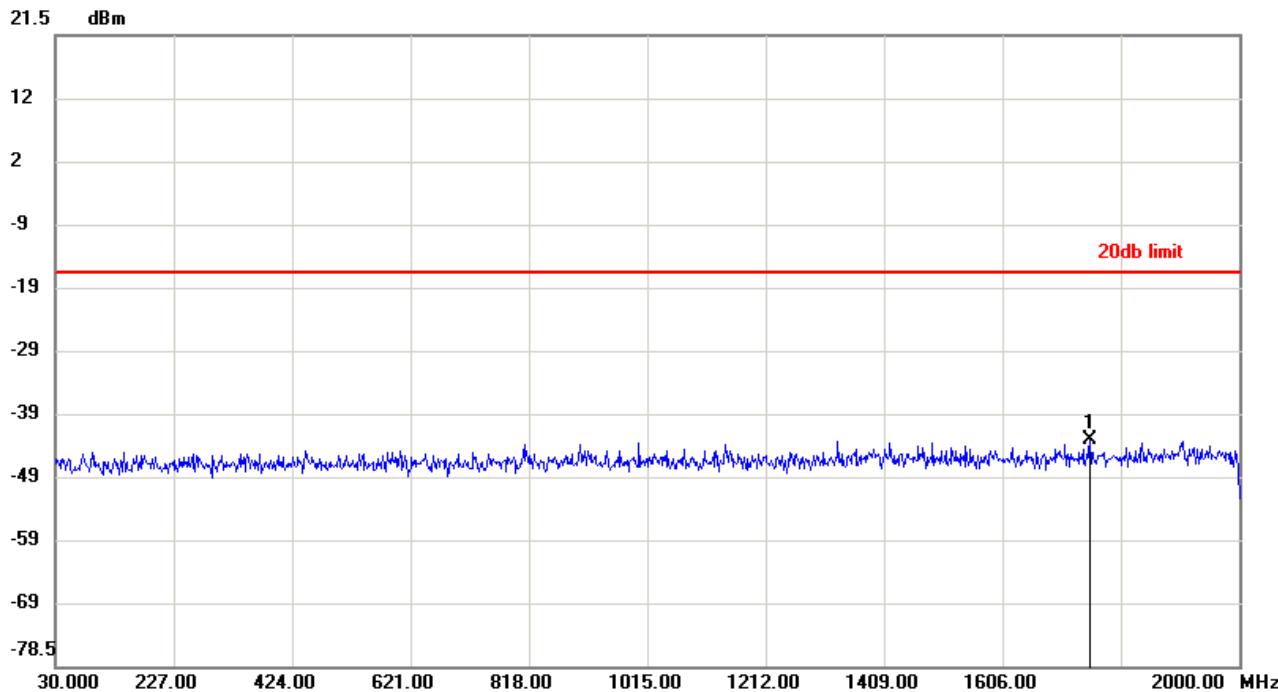


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8677.9333	-43.43	-14.95	-28.48

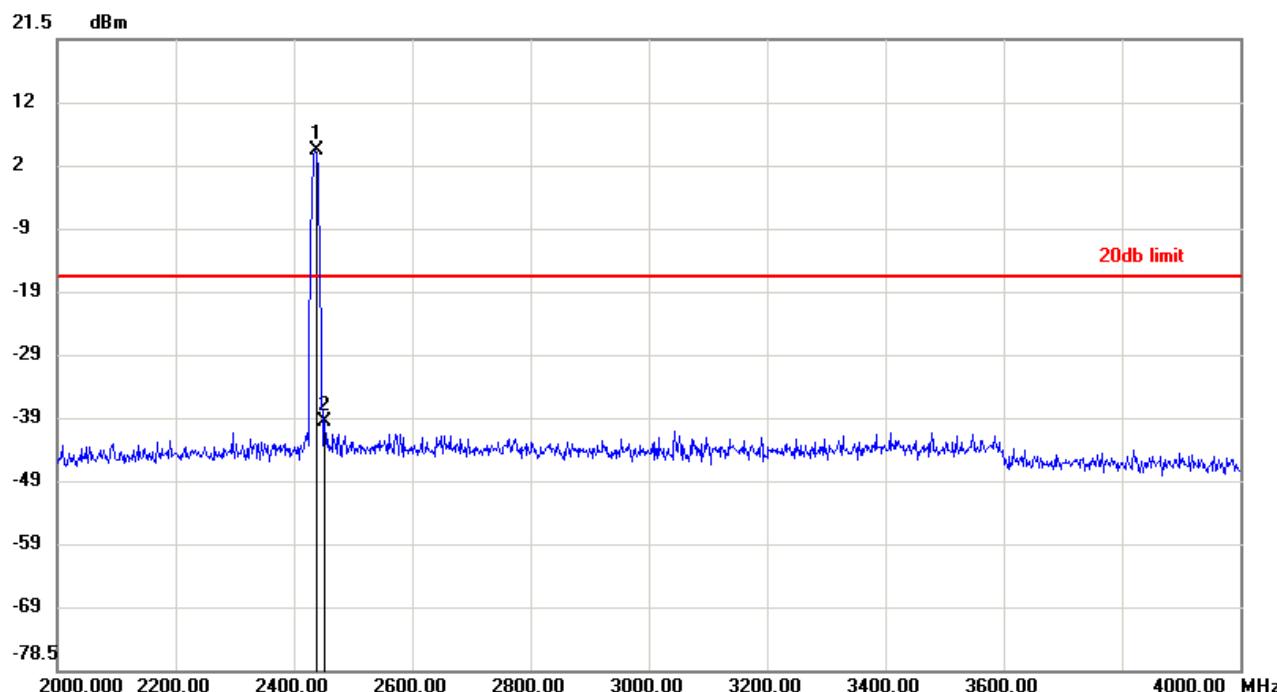


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2312.2580	-40.80	-14.85	-25.95
2	2412.1380	5.15	-14.85	20.00

Test mode:	802.11b	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1751.9770	-42.68	-16.13	-26.55

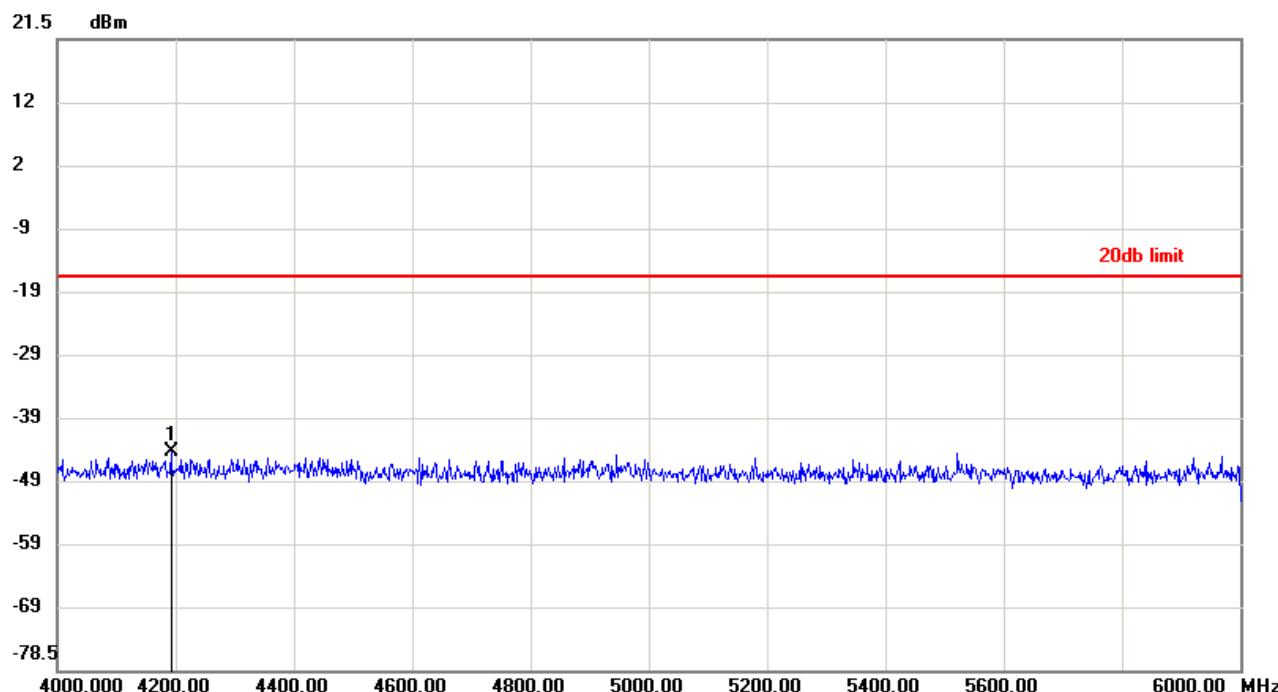


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.4667	3.87	-16.13	20.00
2	2452.3333	-39.22	-16.13	-23.09



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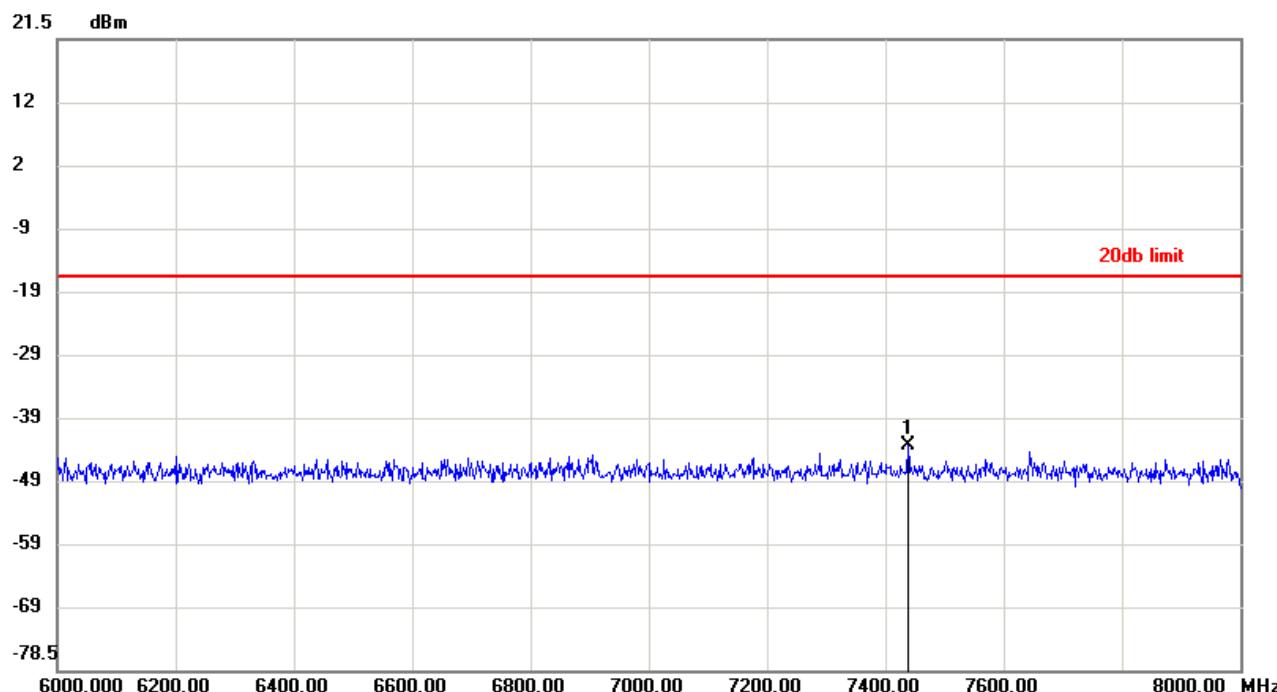
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Page: 59 of 130



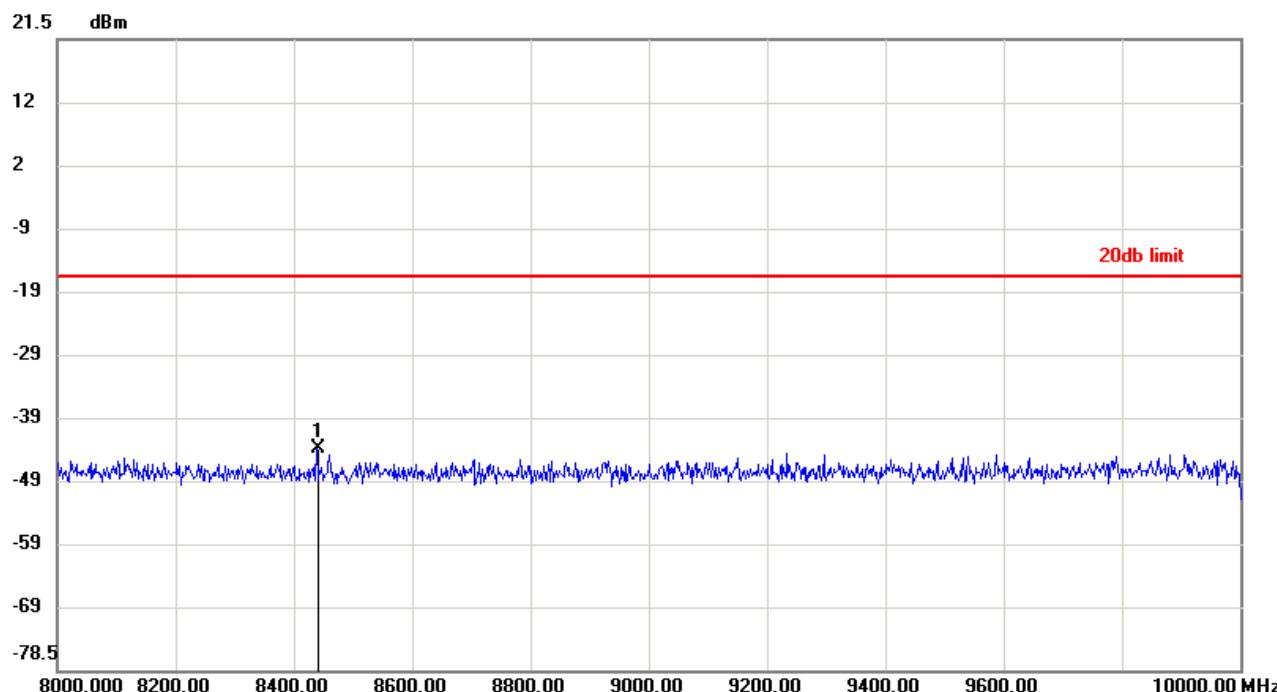
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4193.9333	-43.85	-16.13	-27.72



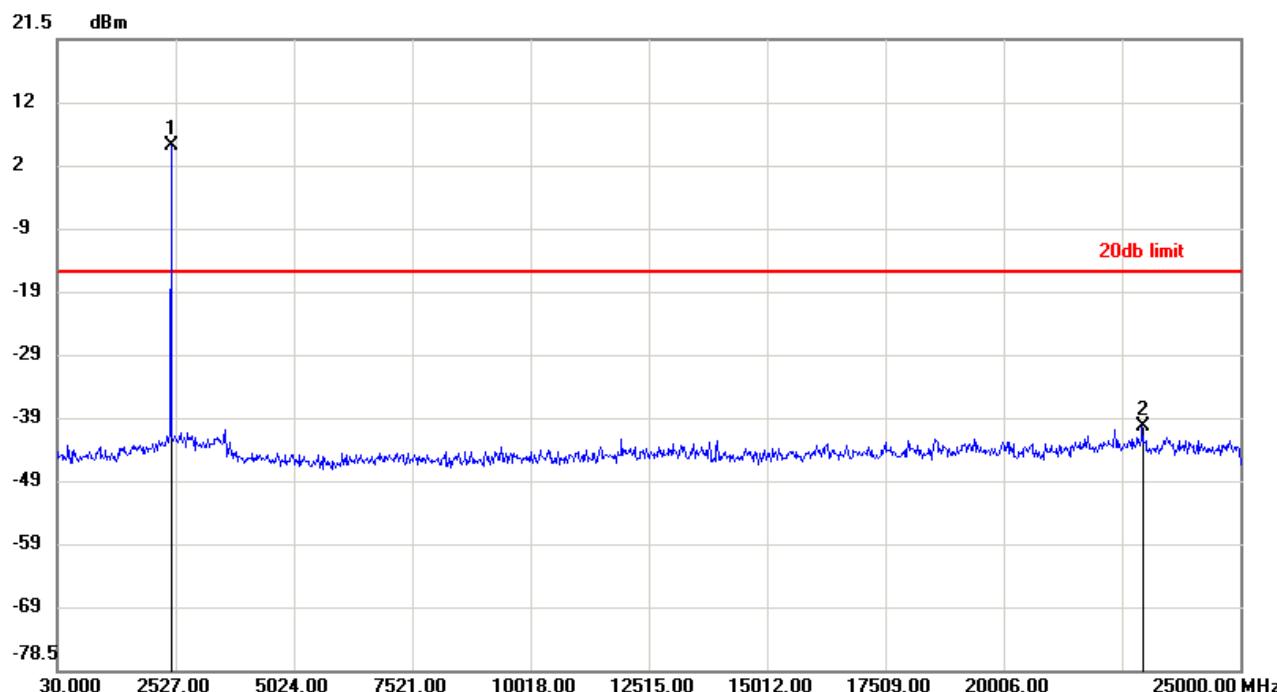
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7439.6000	-42.78	-16.13	-26.65

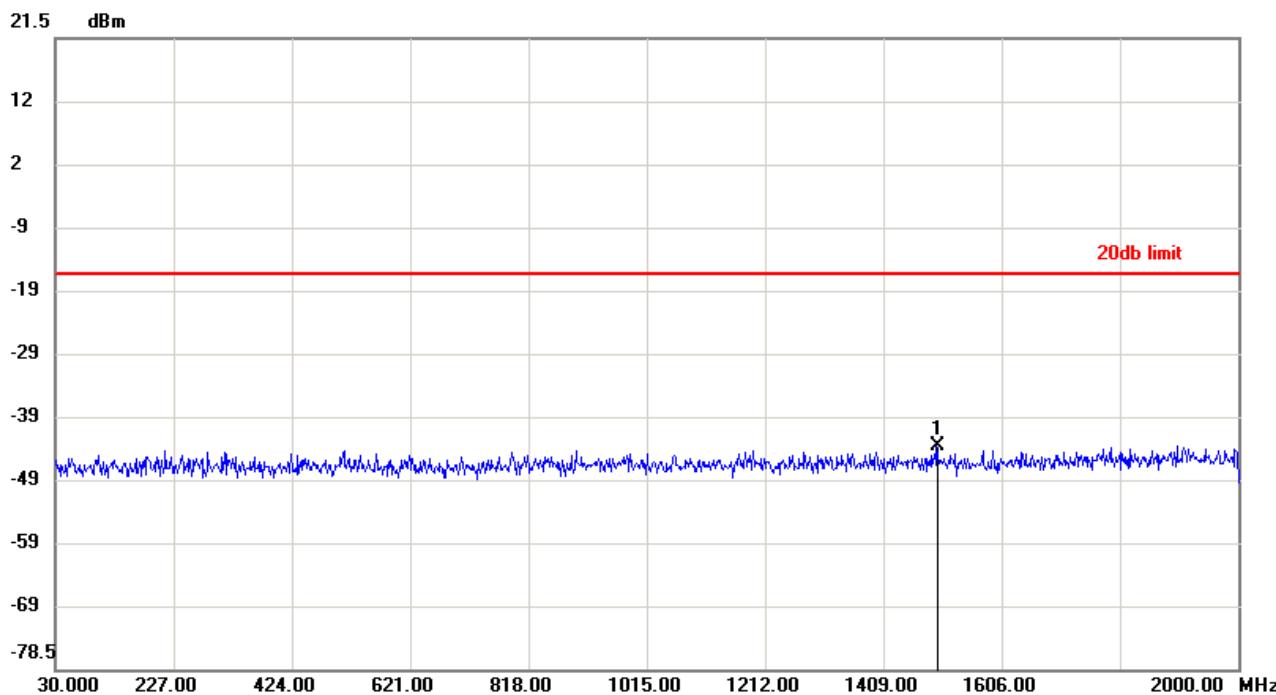


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8438.2667	-43.45	-16.13	-27.32

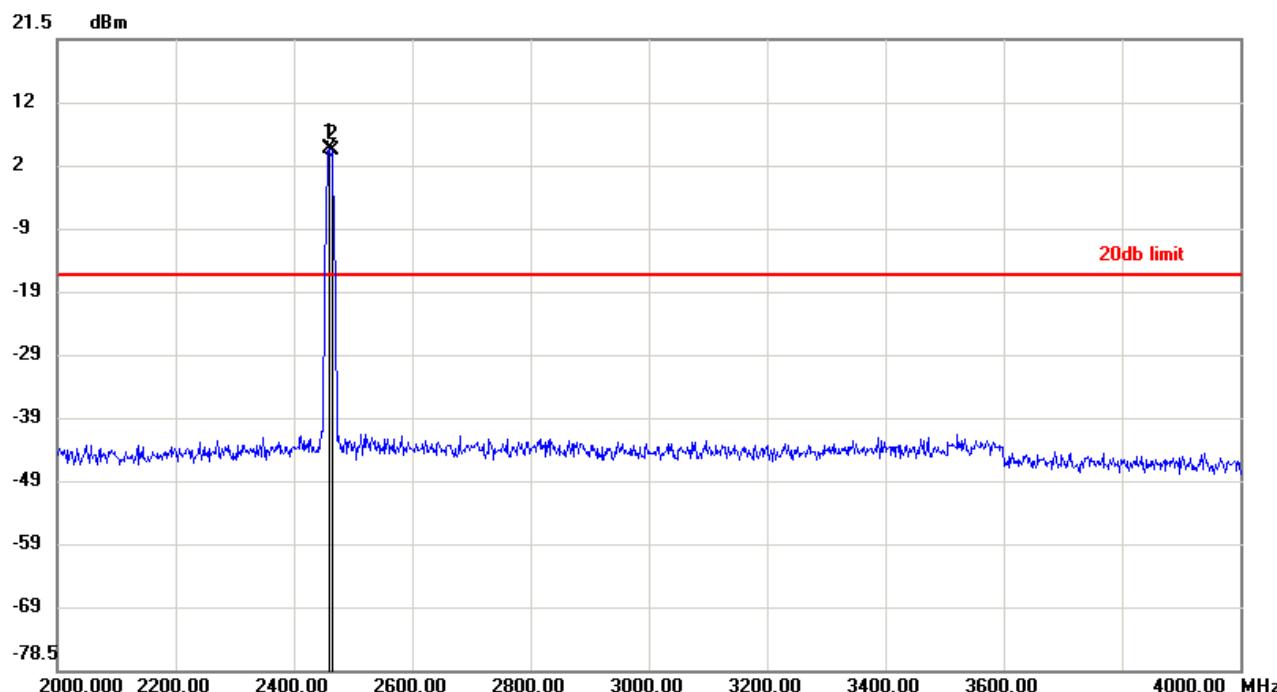


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.2757	4.70	-15.30	20.00
2	22949.1307	-39.80	-15.30	-24.50

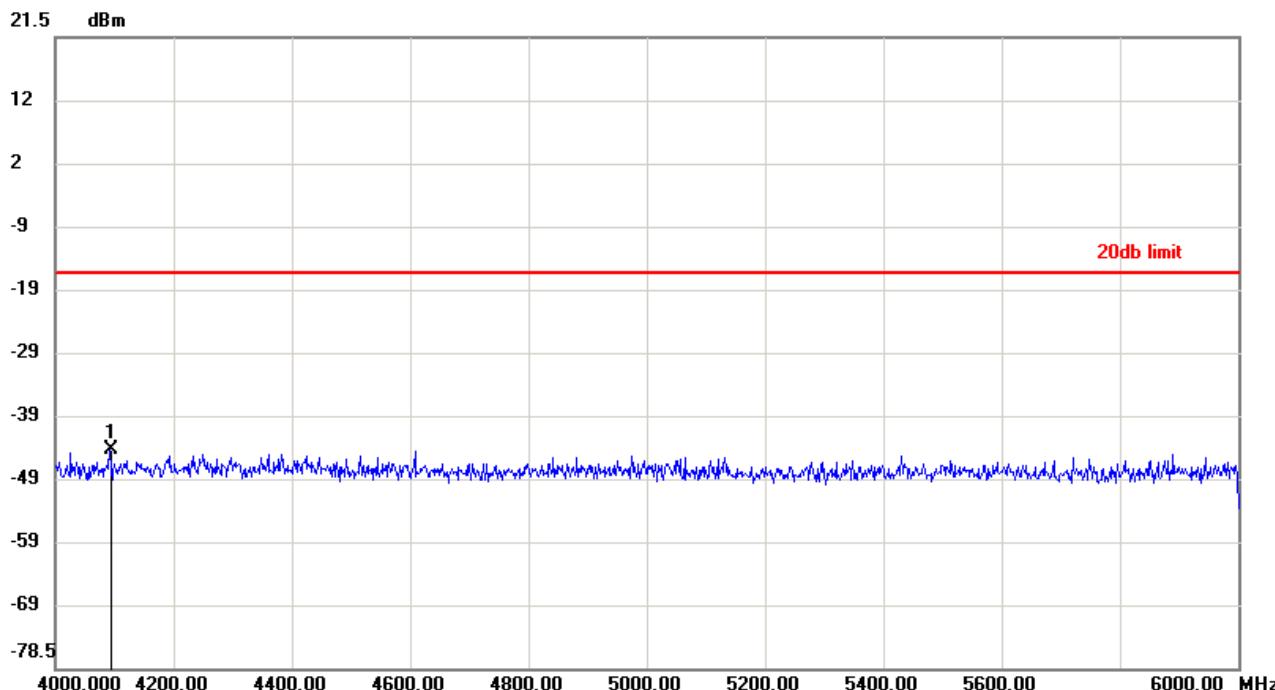
Test mode:	802.11b	Test channel:	Highest
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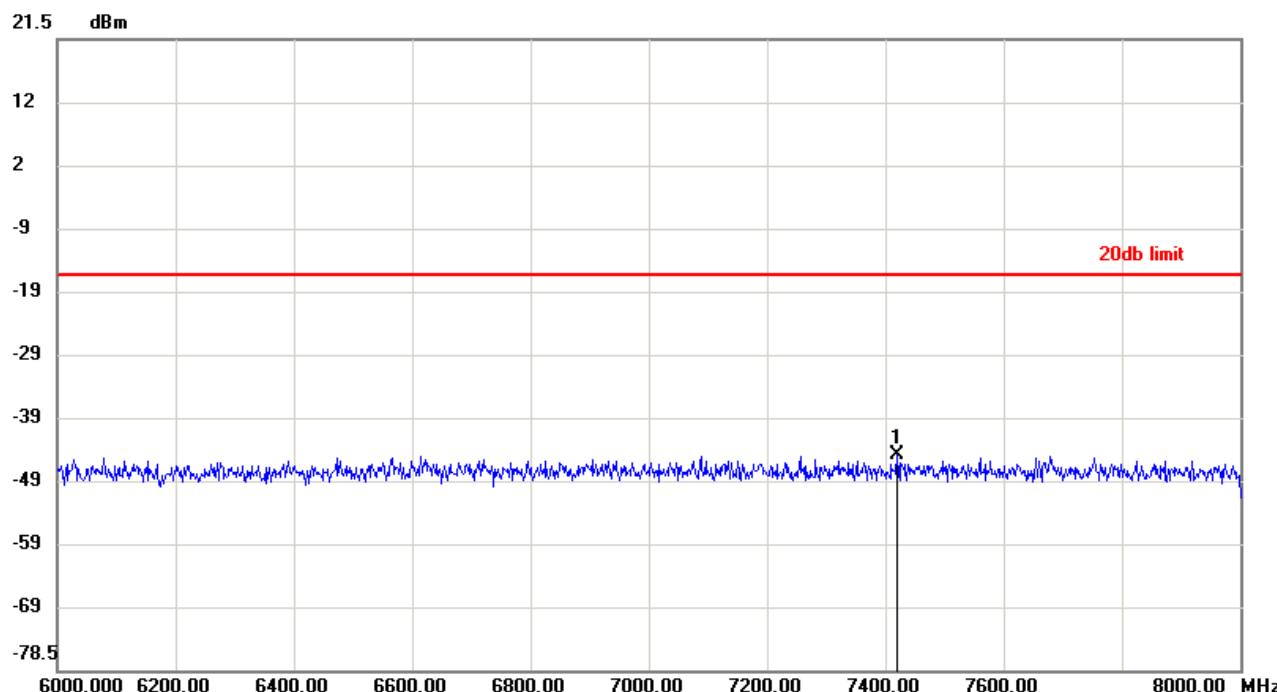
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1498.3067	-43.16	-15.92	-27.24



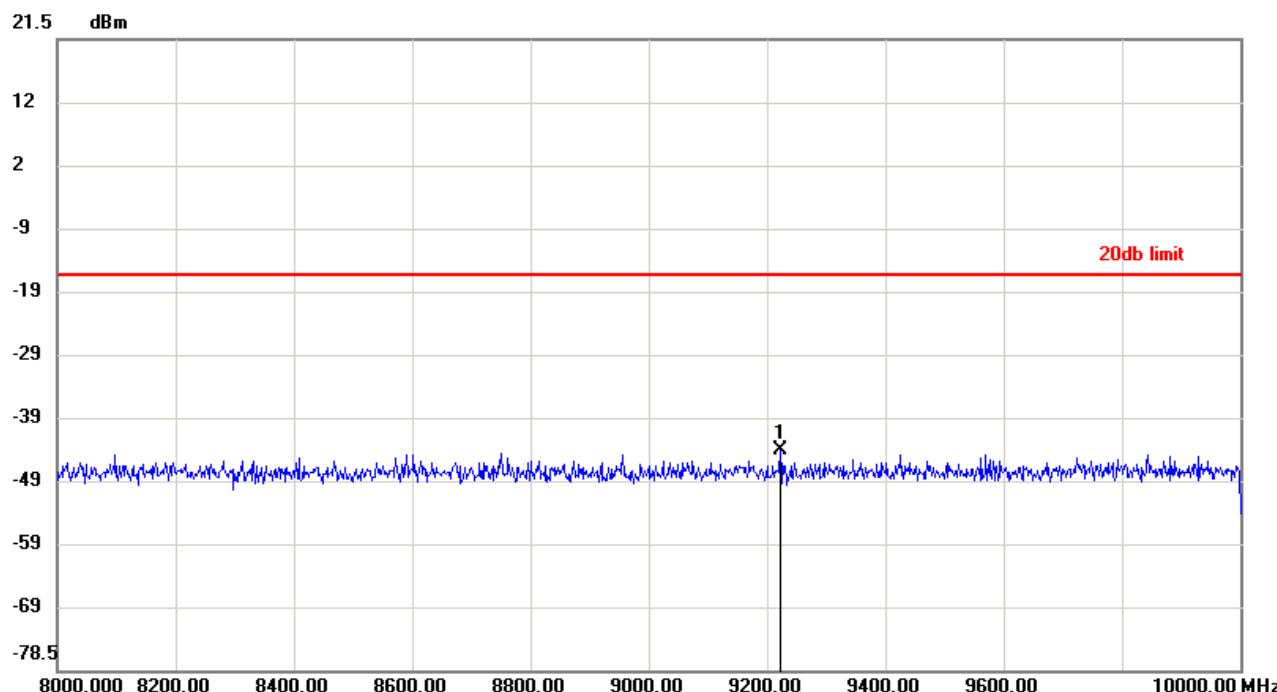
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2461.4000	4.08	-15.92	20.00
2	2464.4000	3.87	-15.92	19.79



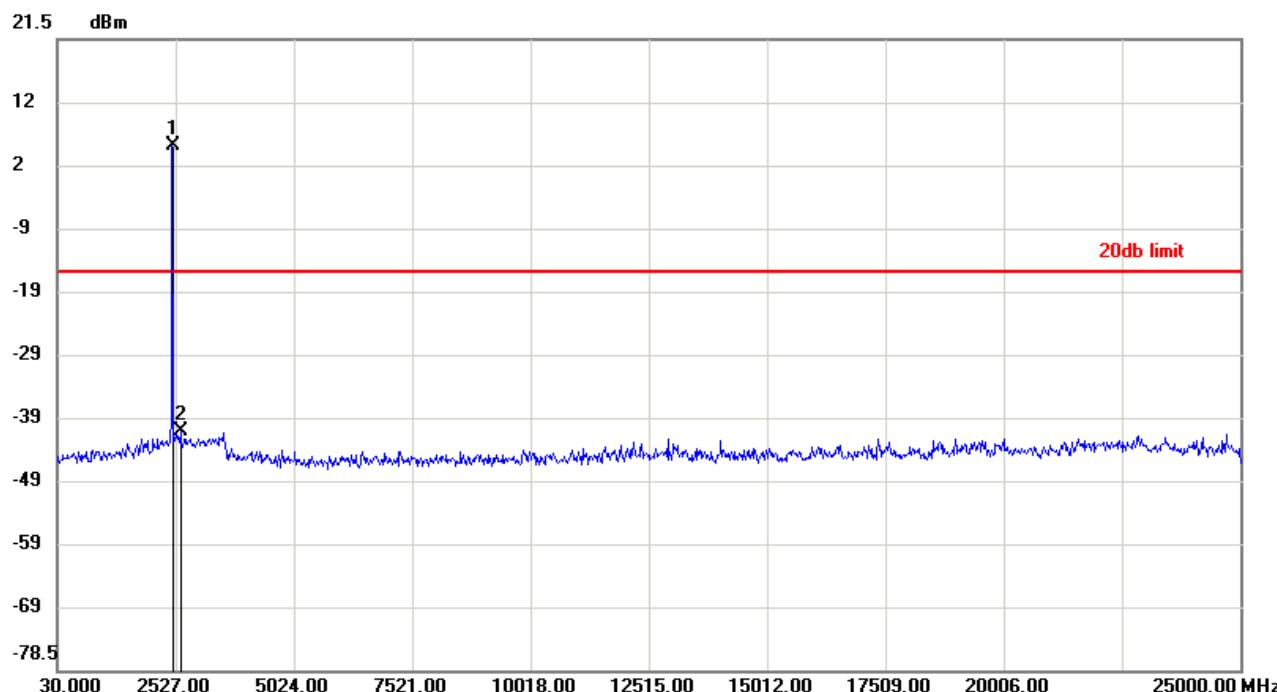
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4093.6667	-43.78	-15.92	-27.86



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7420.9333	-44.45	-15.92	-28.53



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9222.1333	-43.53	-15.92	-27.61



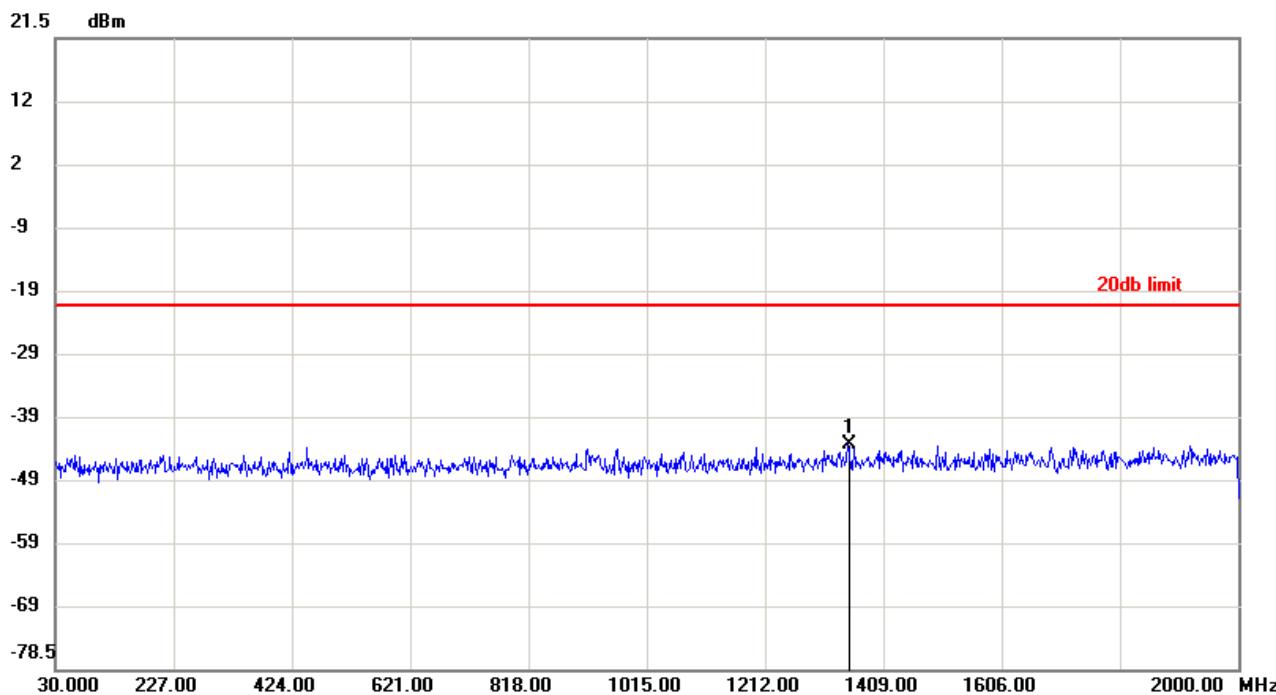
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2461.2457	4.54	-15.46	20.00
2	2639.3650	-40.57	-15.46	-25.11



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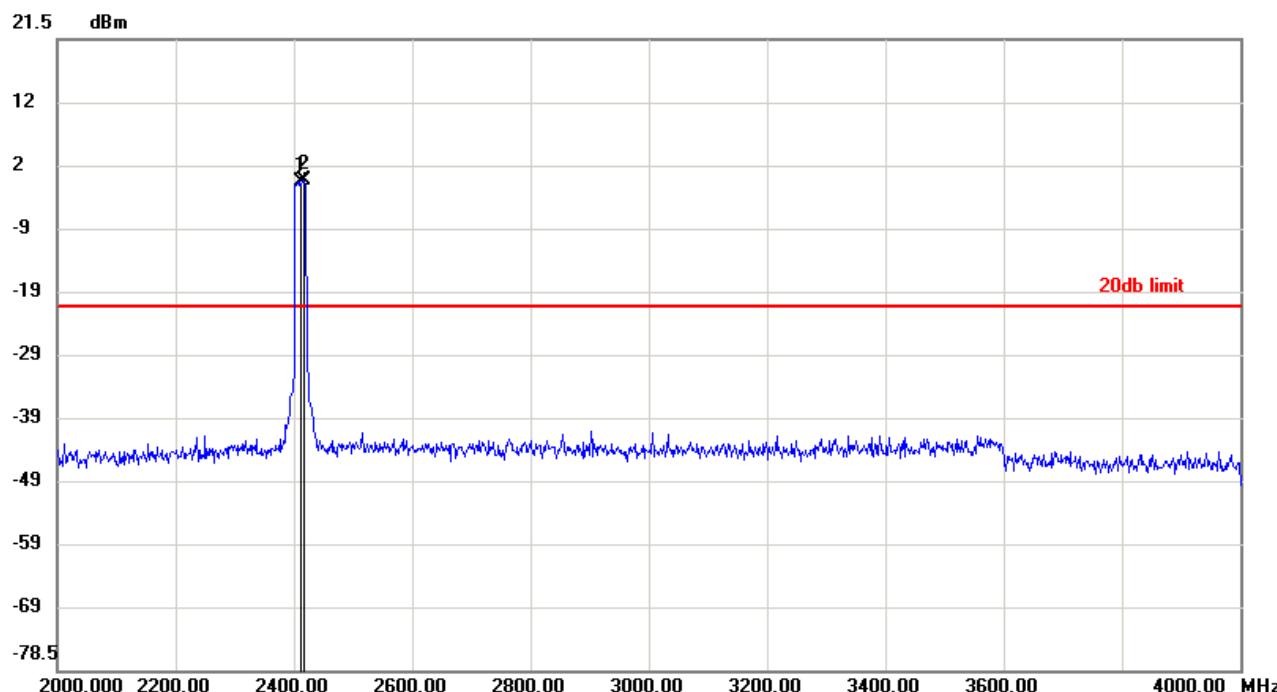
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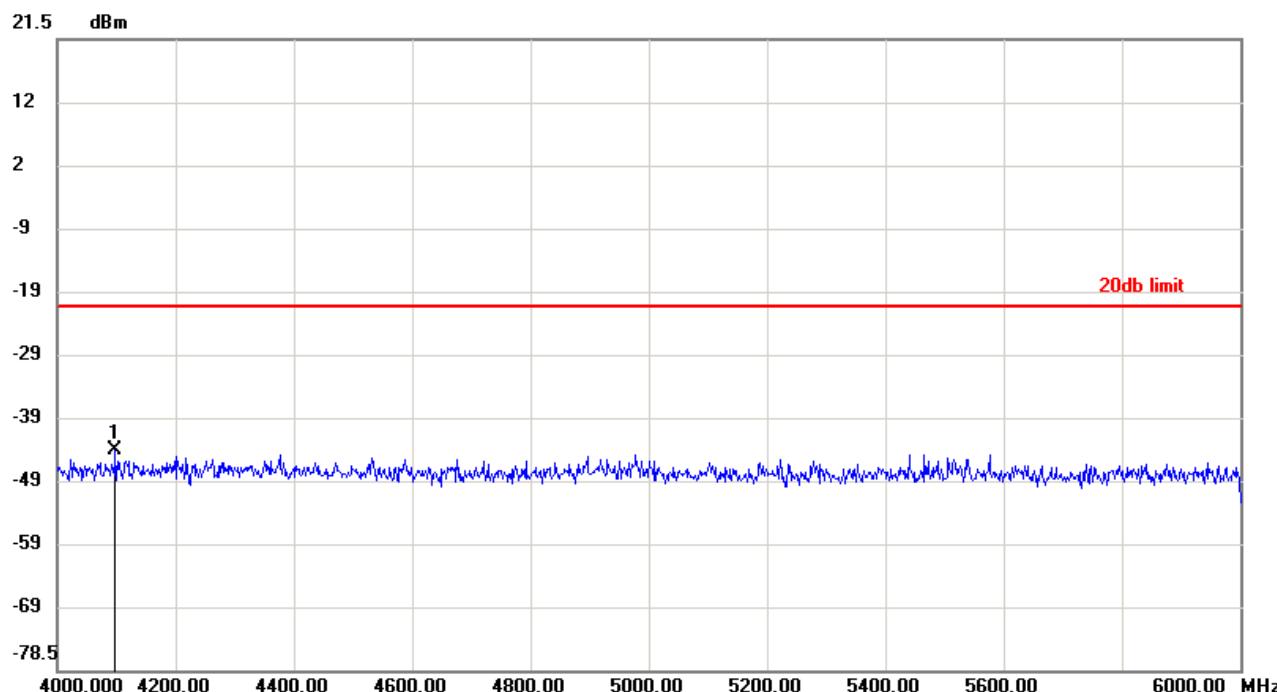
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1351.5417	-42.84	-20.82	-22.02



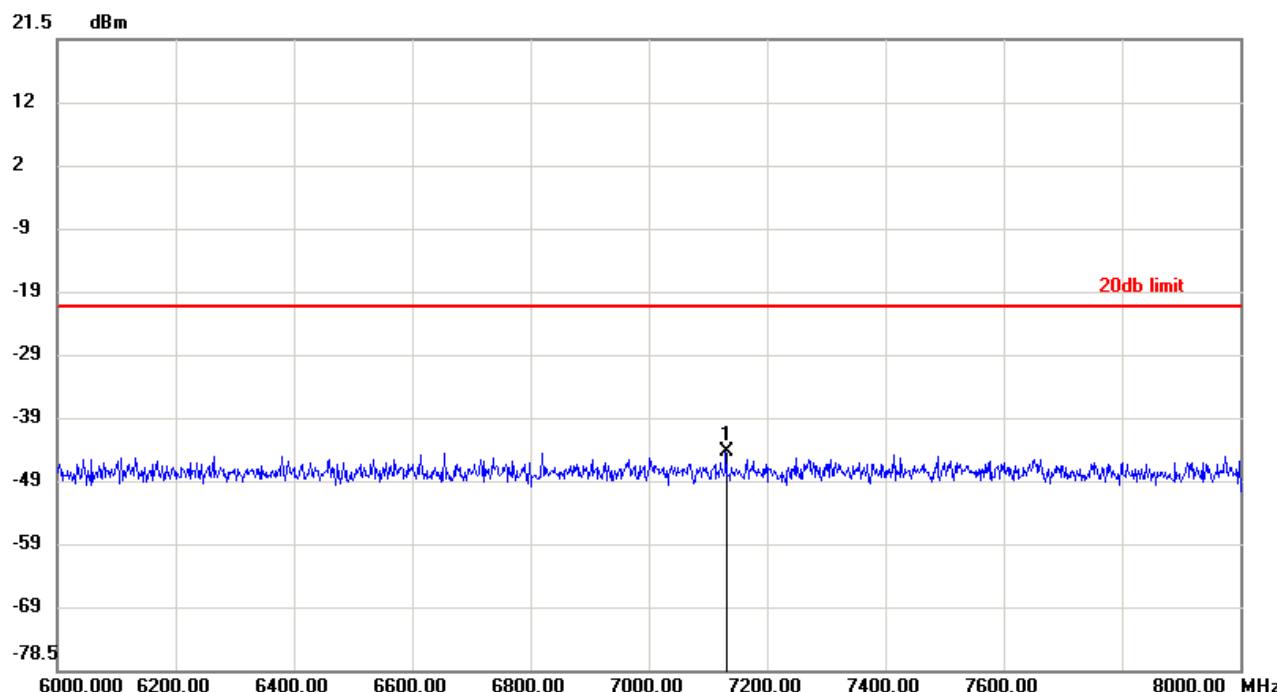
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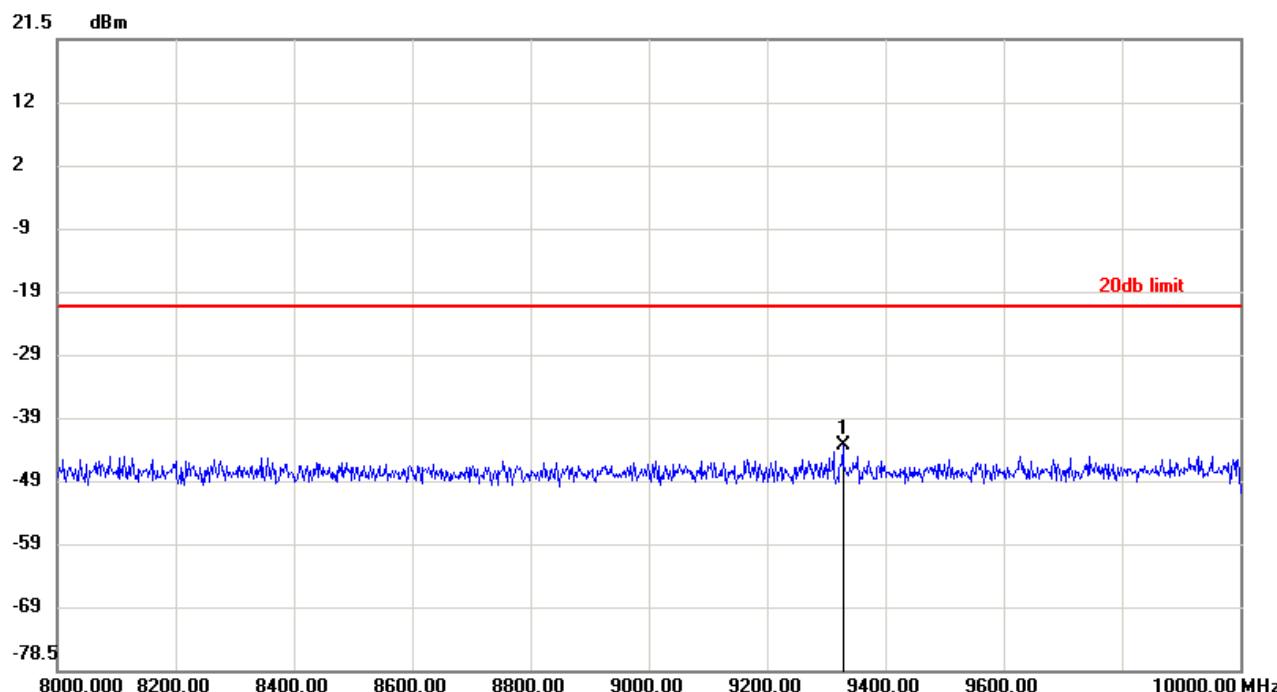
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2410.0667	-1.11	-20.82	19.71
2	2415.6667	-0.82	-20.82	20.00



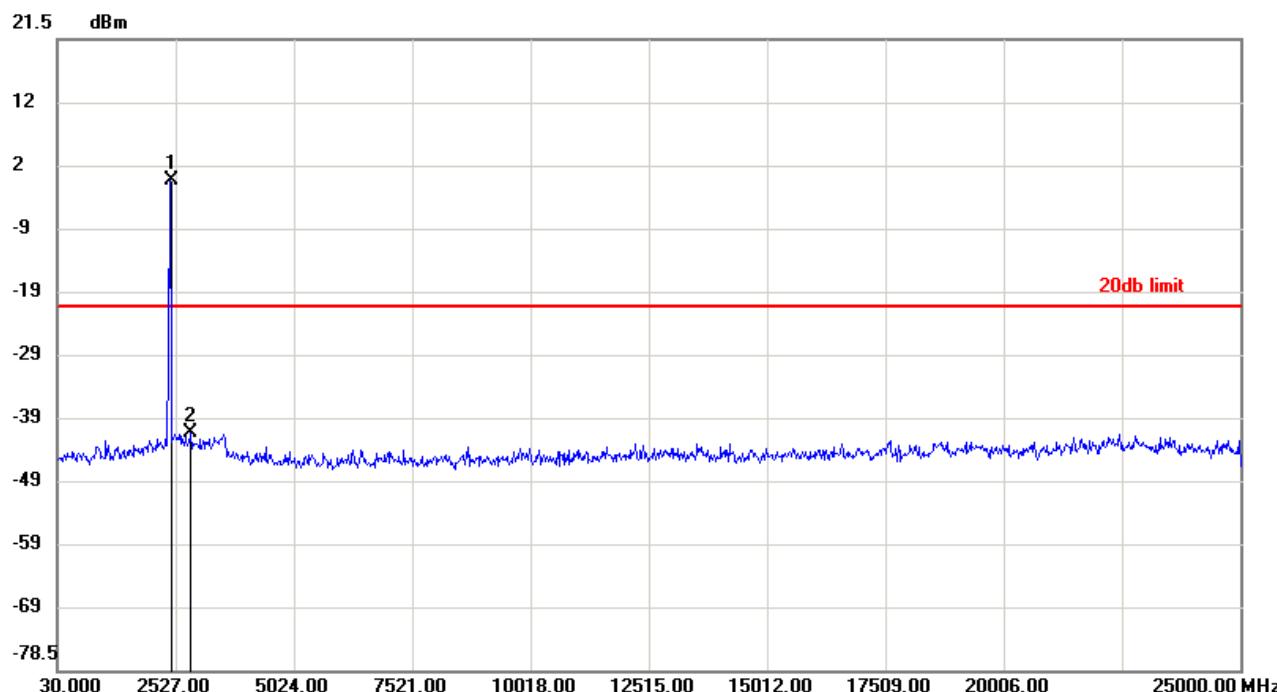
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4099.2000	-43.70	-20.82	-22.88



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7130.0667	-43.95	-20.82	-23.13

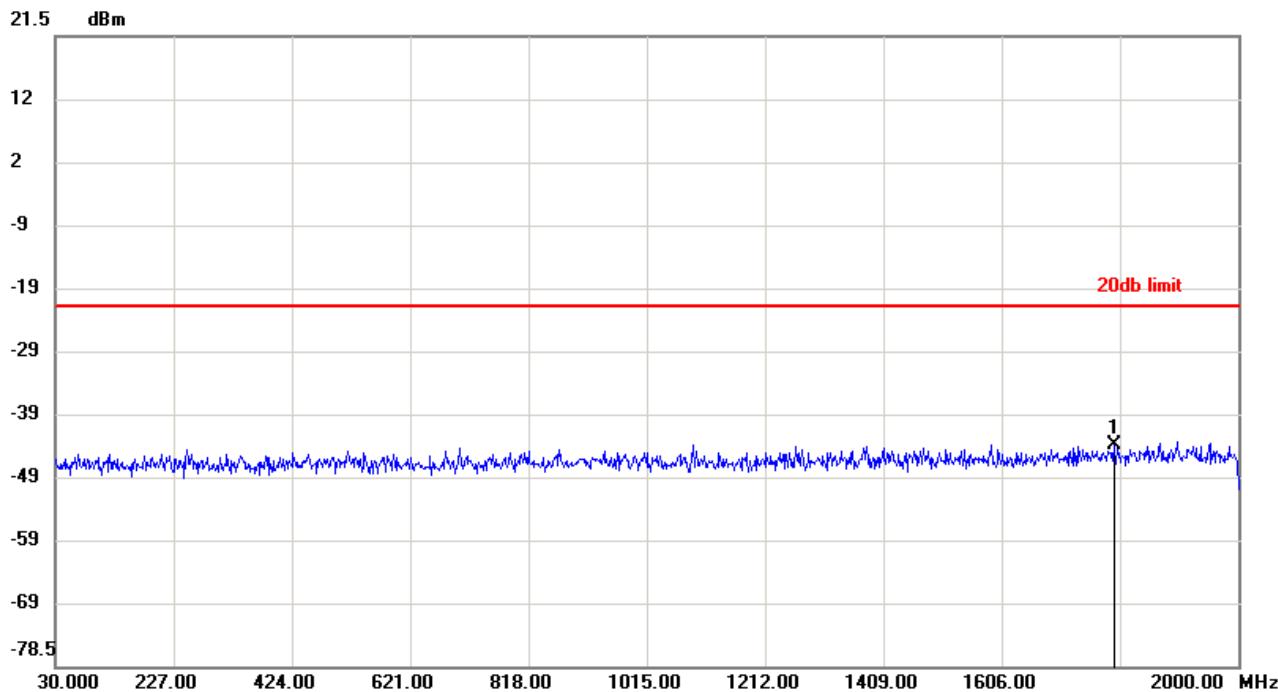


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9328.4000	-42.94	-20.82	-22.12

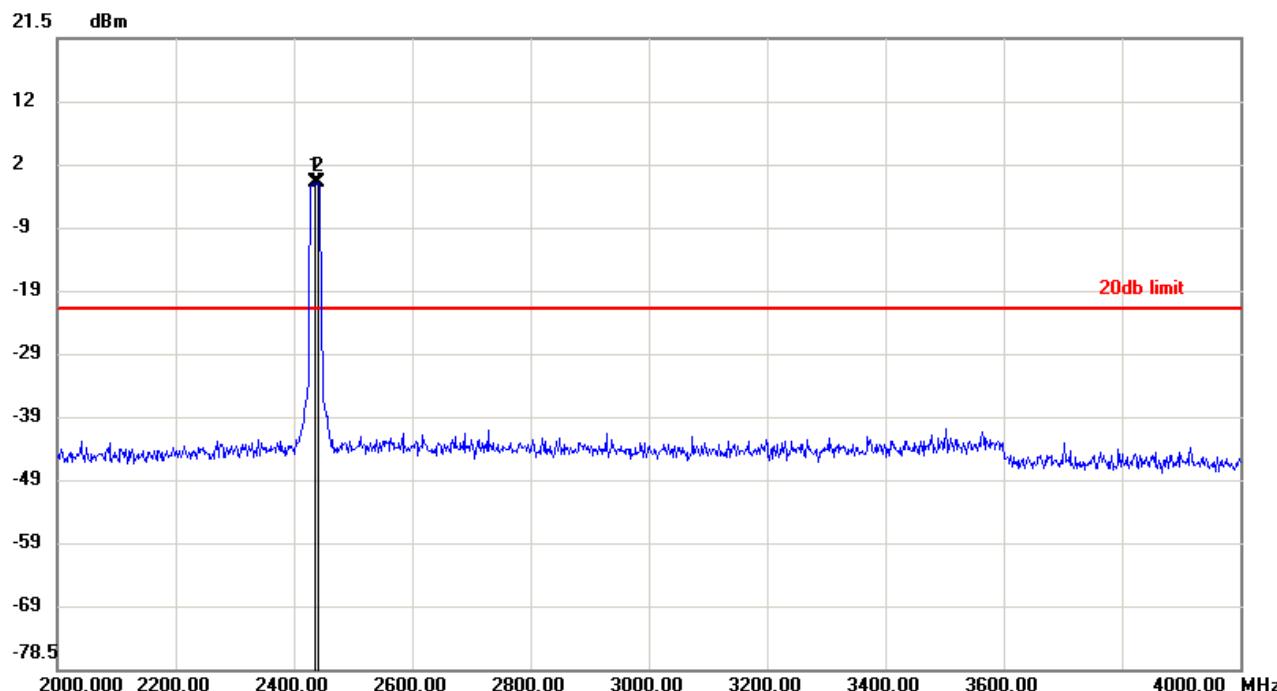


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.8147	-0.76	-20.76	20.00
2	2869.9213	-40.89	-20.76	-20.13

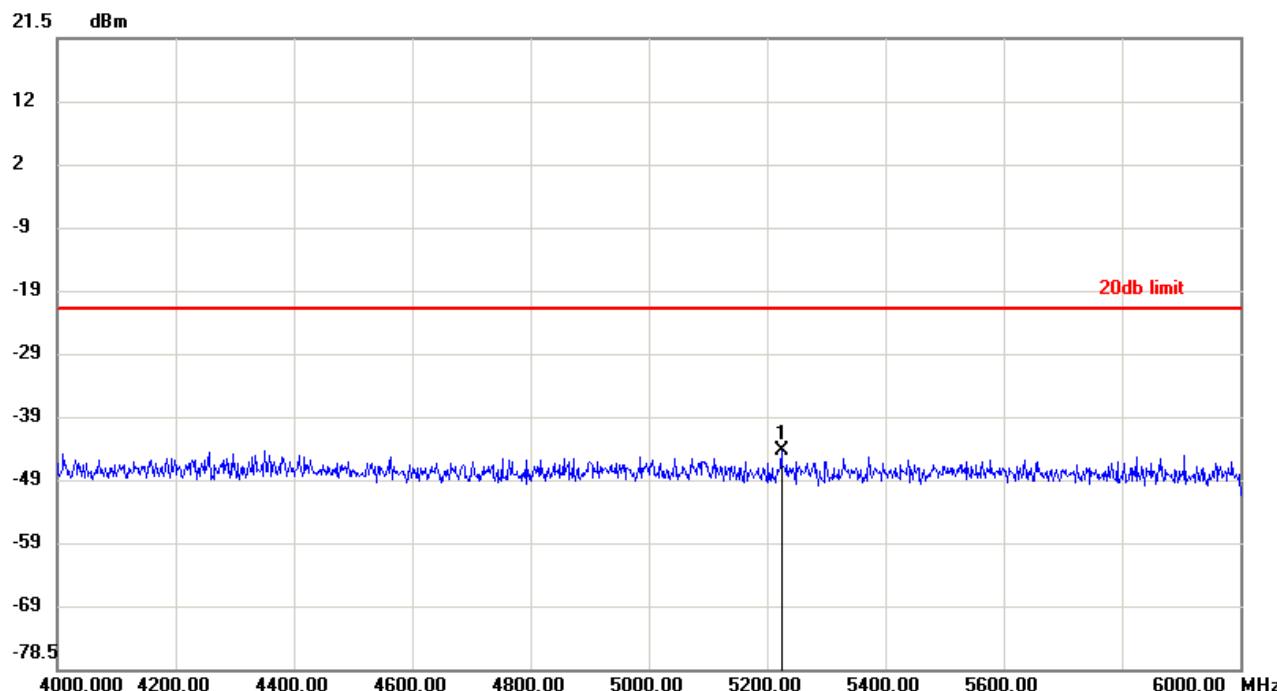
Test mode:	802.11g	Test channel:	Middle
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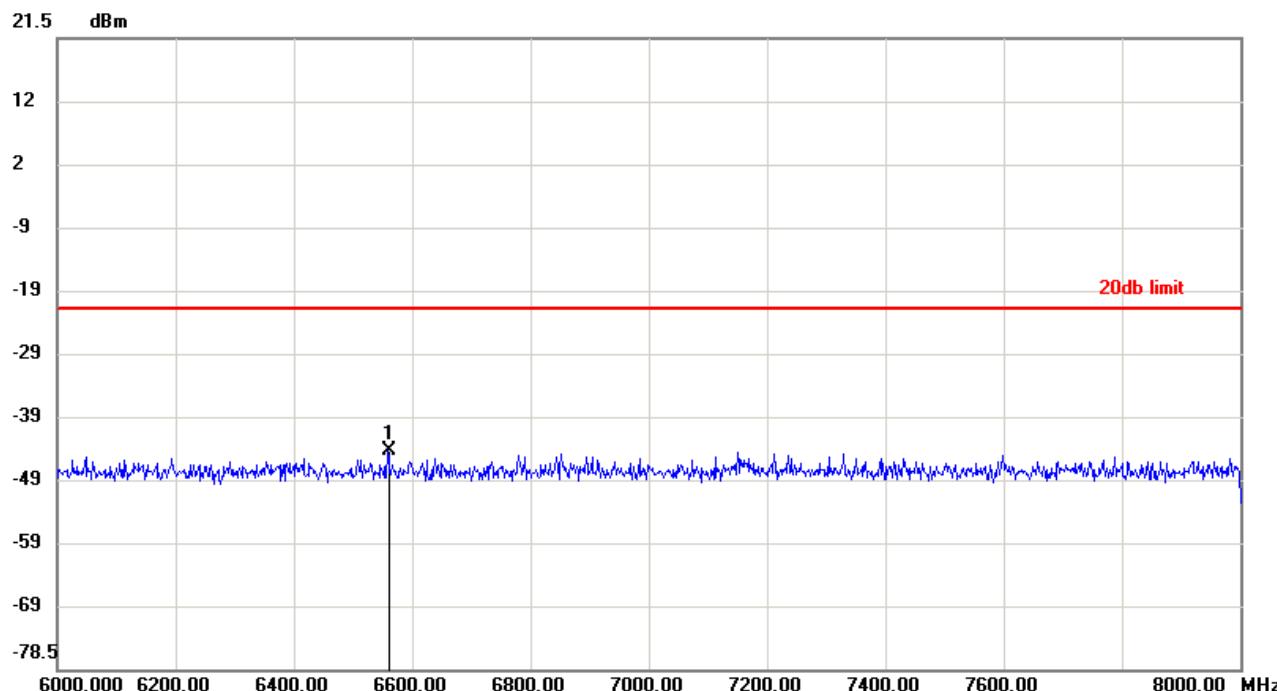
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1793.3470	-43.29	-21.25	-22.04



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2437.9333	-1.25	-21.25	20.00
2	2441.0667	-1.41	-21.25	19.84



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	5225.8667	-43.87	-21.25	-22.62

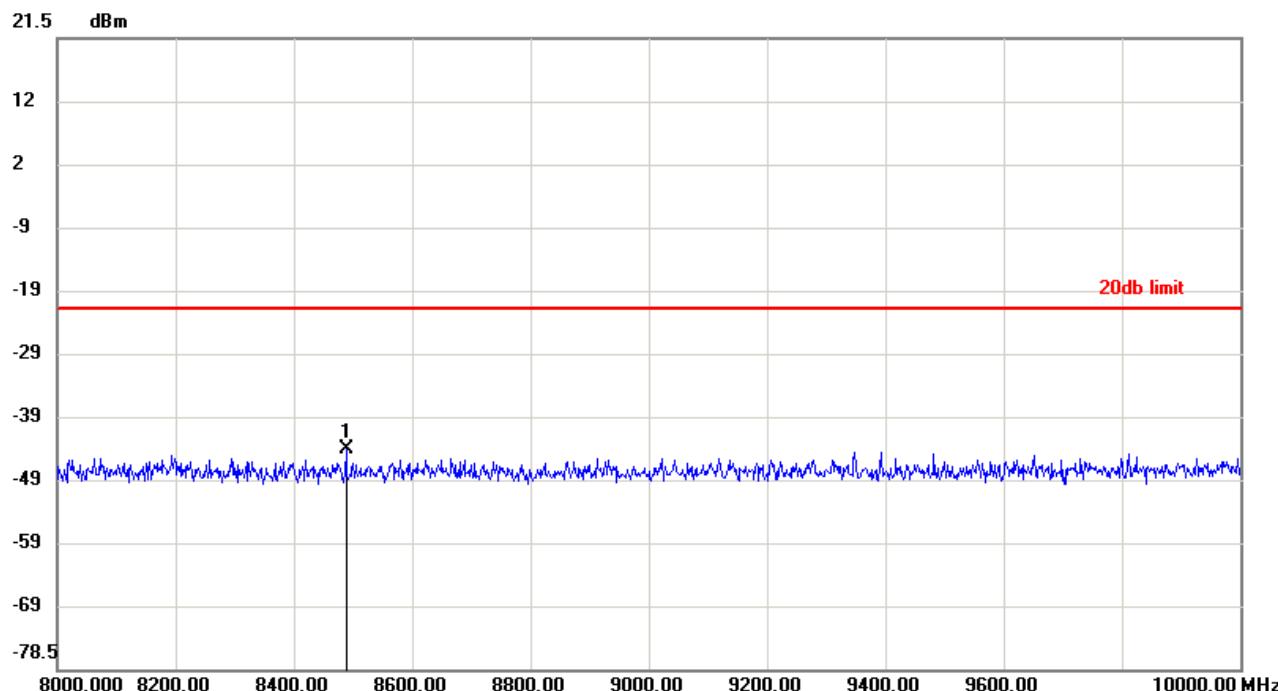


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6559.8667	-43.89	-21.25	-22.64



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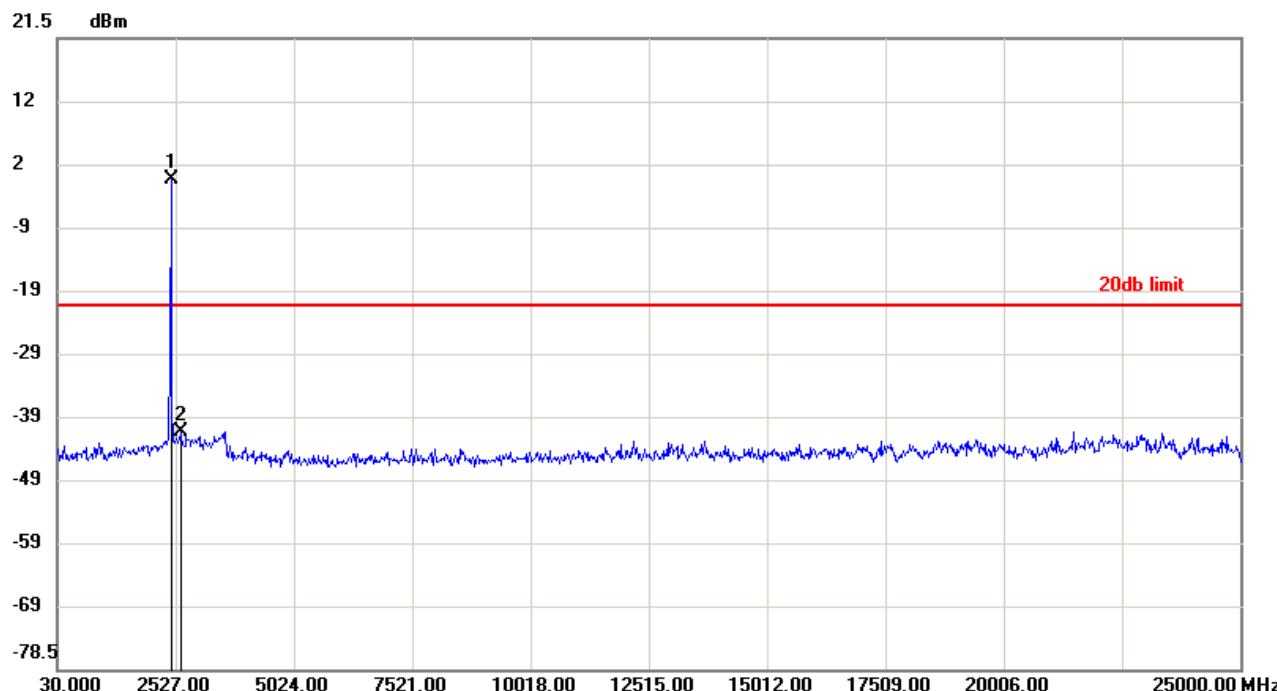
Report No.: SZEM150700399301
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8488.2667	-43.51	-21.25	-22.26

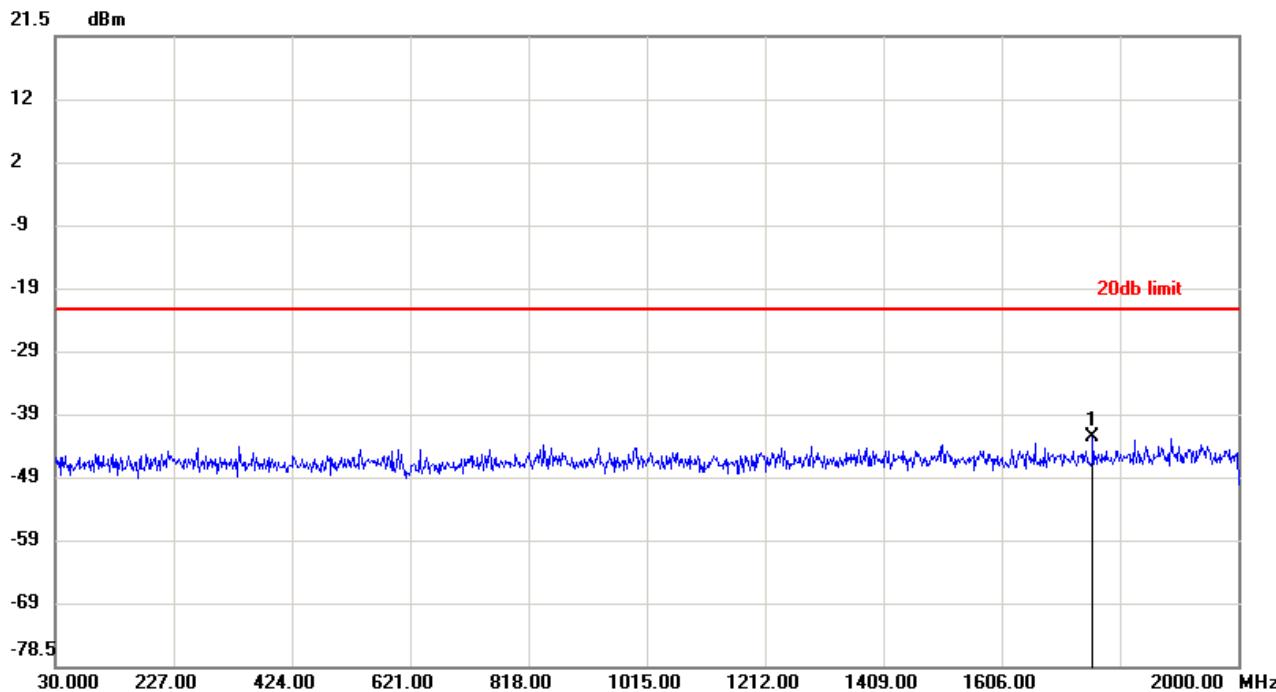


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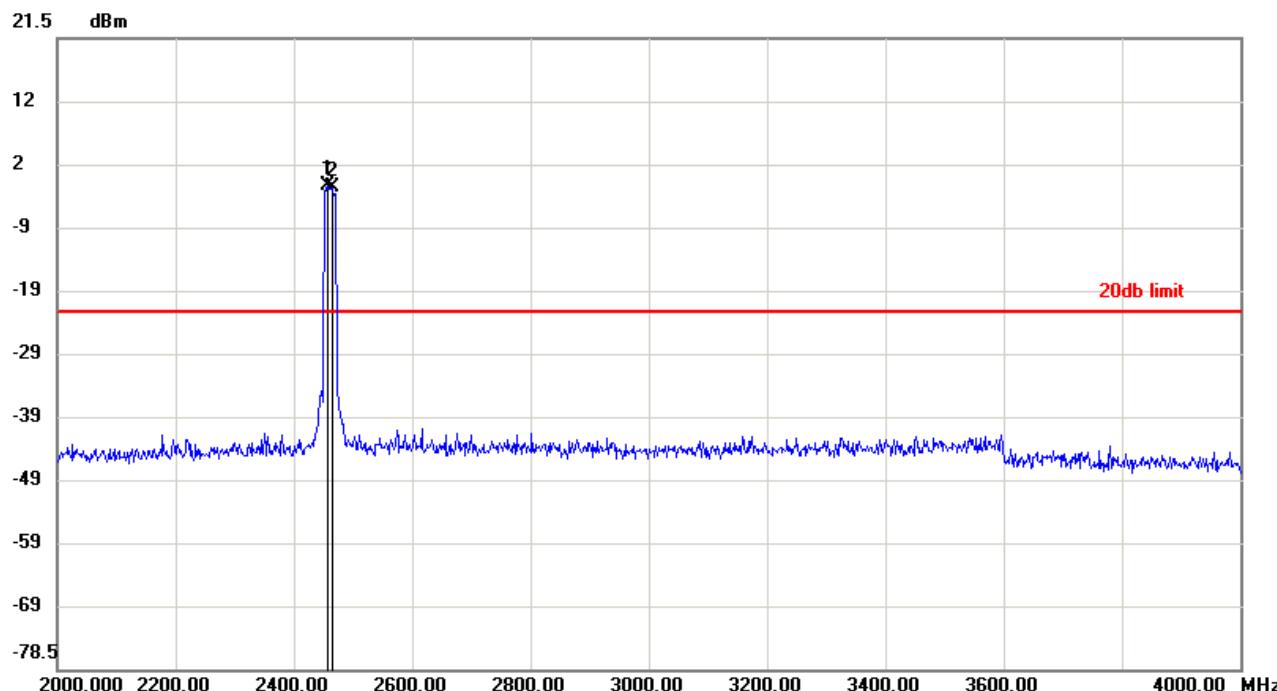


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2435.4433	-0.83	-20.83	20.00
2	2638.5327	-40.78	-20.83	-19.95

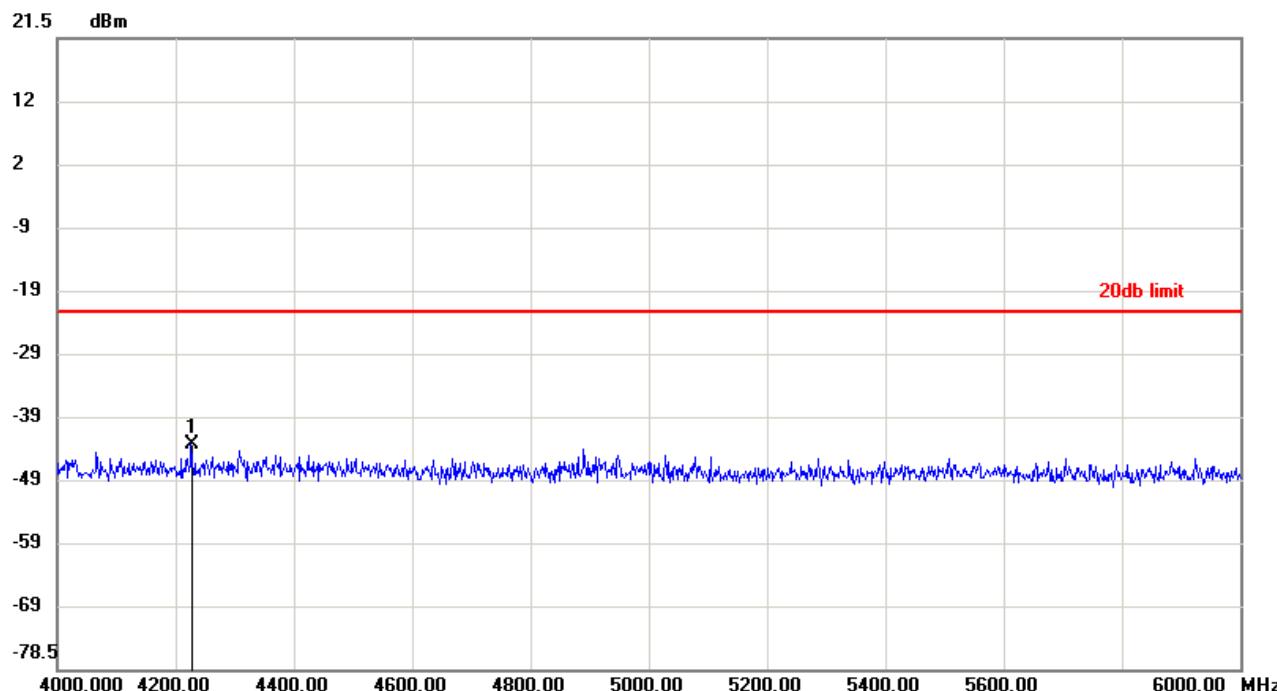
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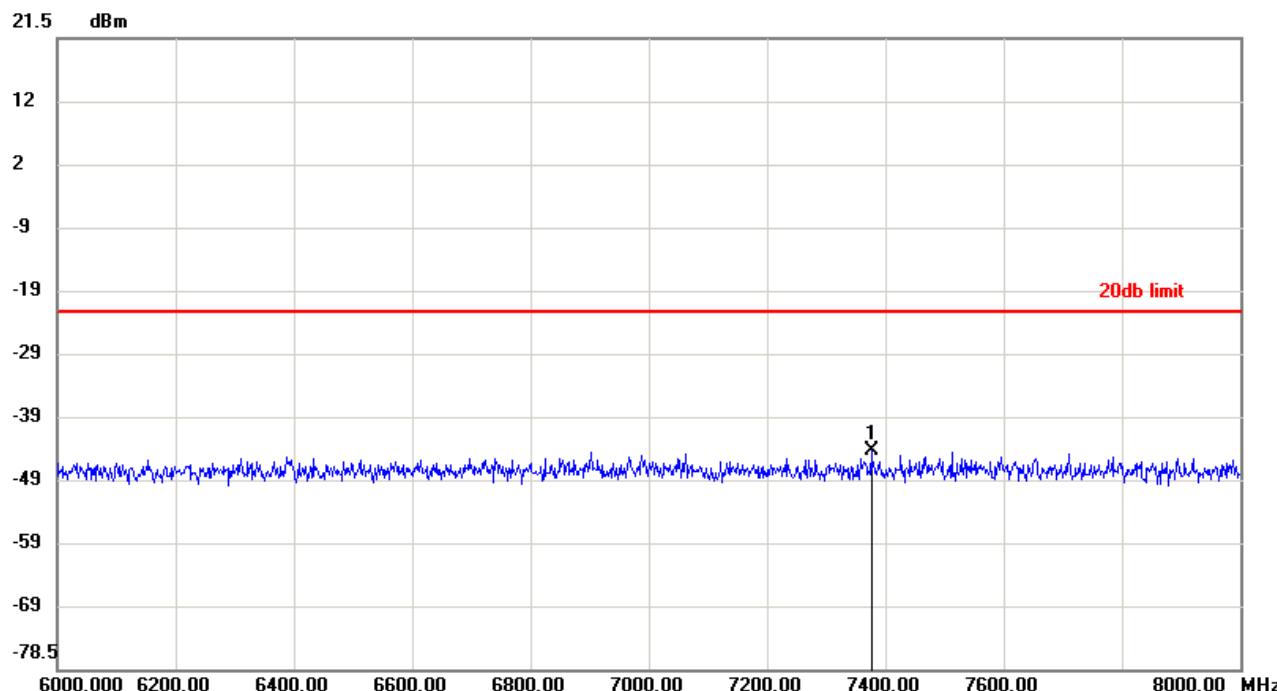
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1759.0690	-42.09	-21.81	-20.28



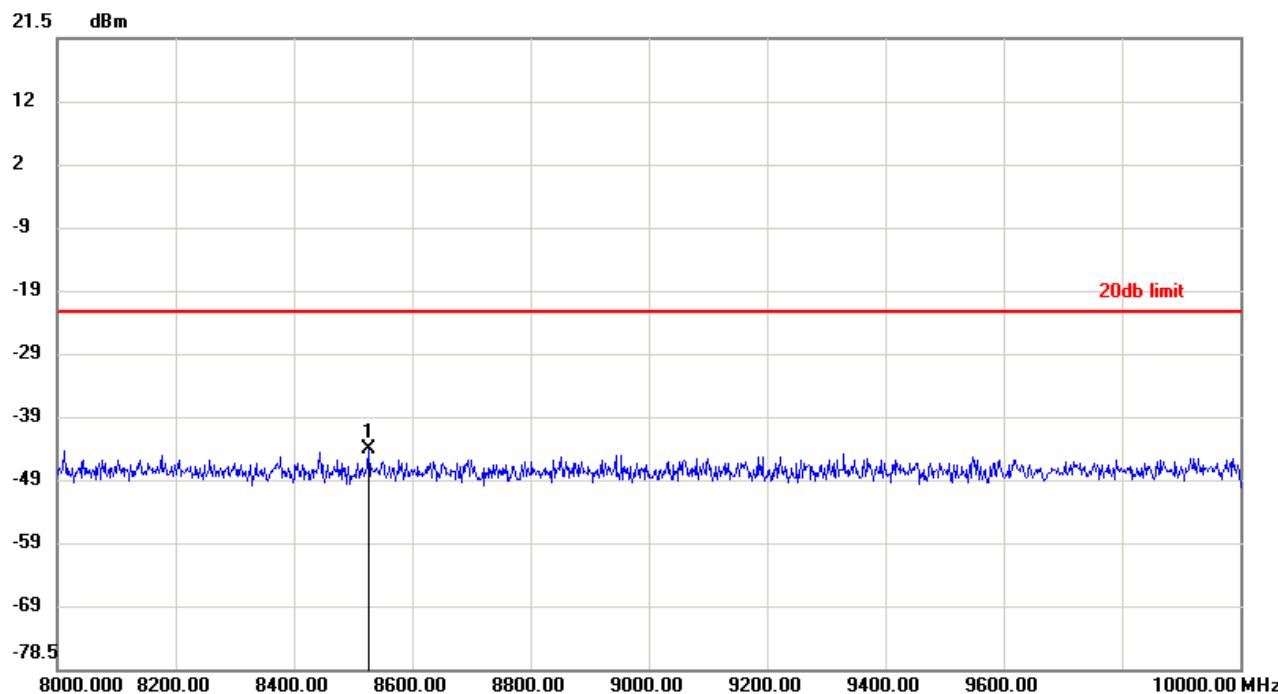
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2457.3333	-1.81	-21.81	20.00
2	2464.4667	-2.05	-21.81	19.76



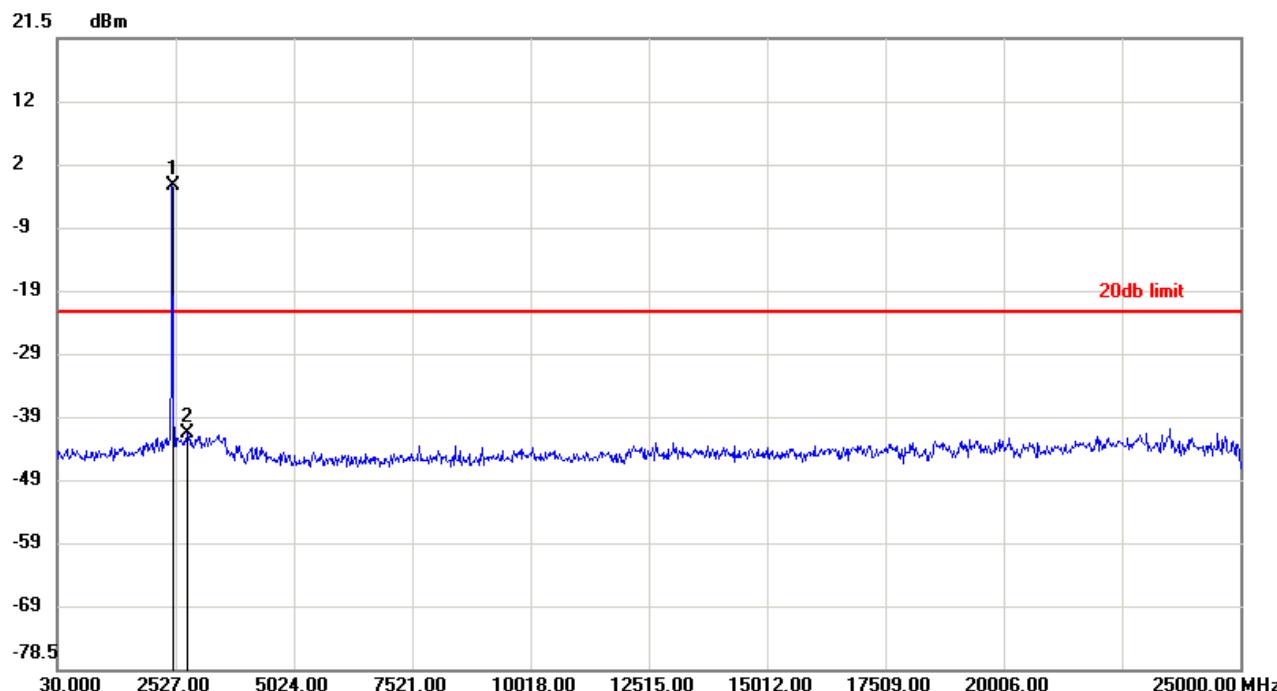
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4227.0667	-42.99	-21.81	-21.18



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7377.4667	-43.82	-21.81	-22.01

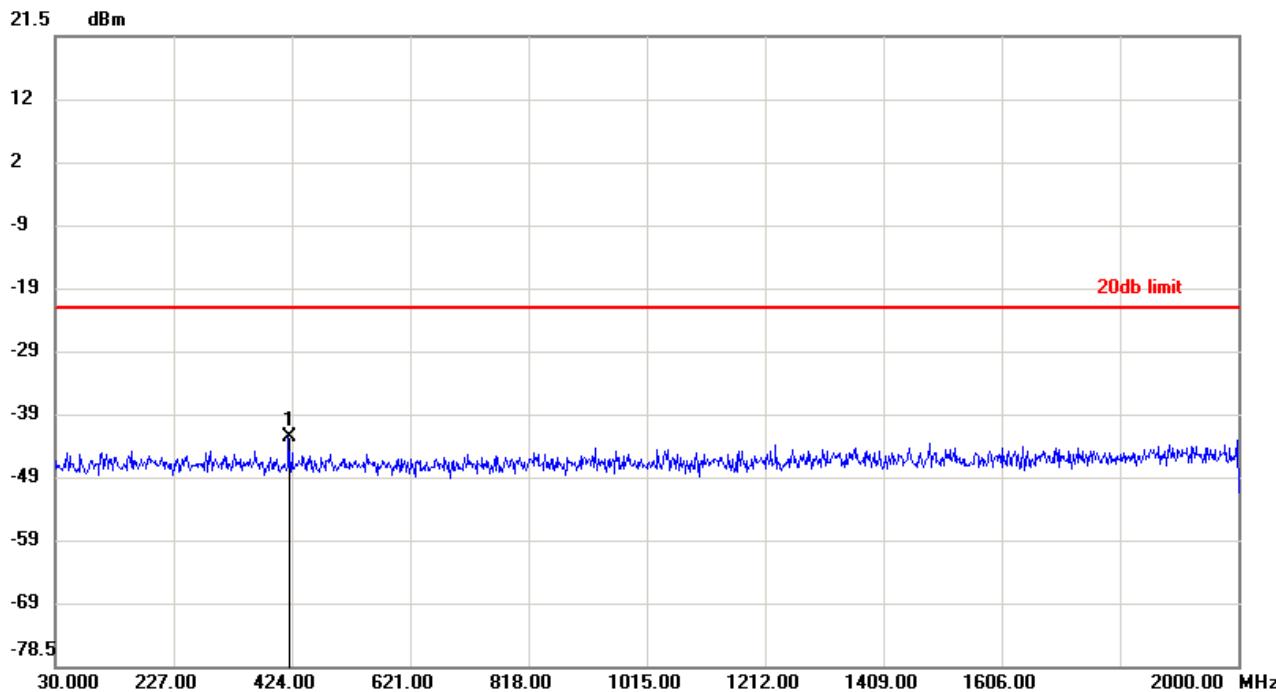


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8526.0000	-43.52	-21.81	-21.71

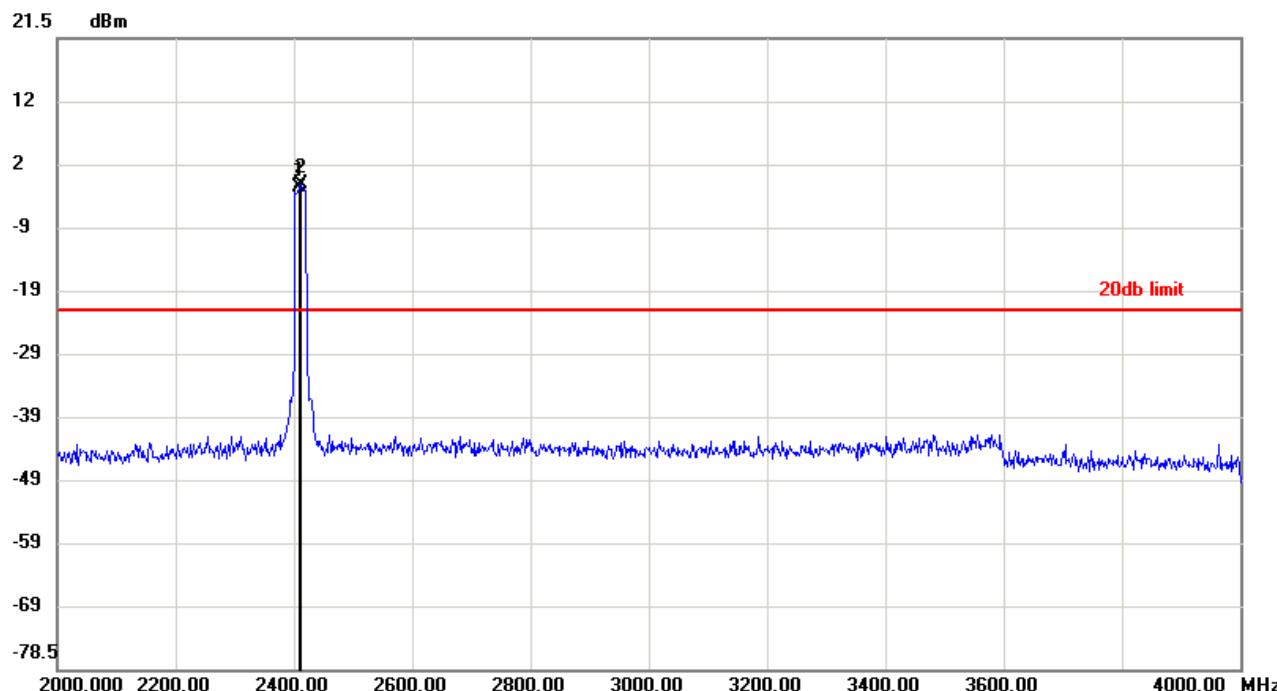


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2458.7487	-1.91	-21.91	20.00
2	2782.5263	-41.13	-21.91	-19.22

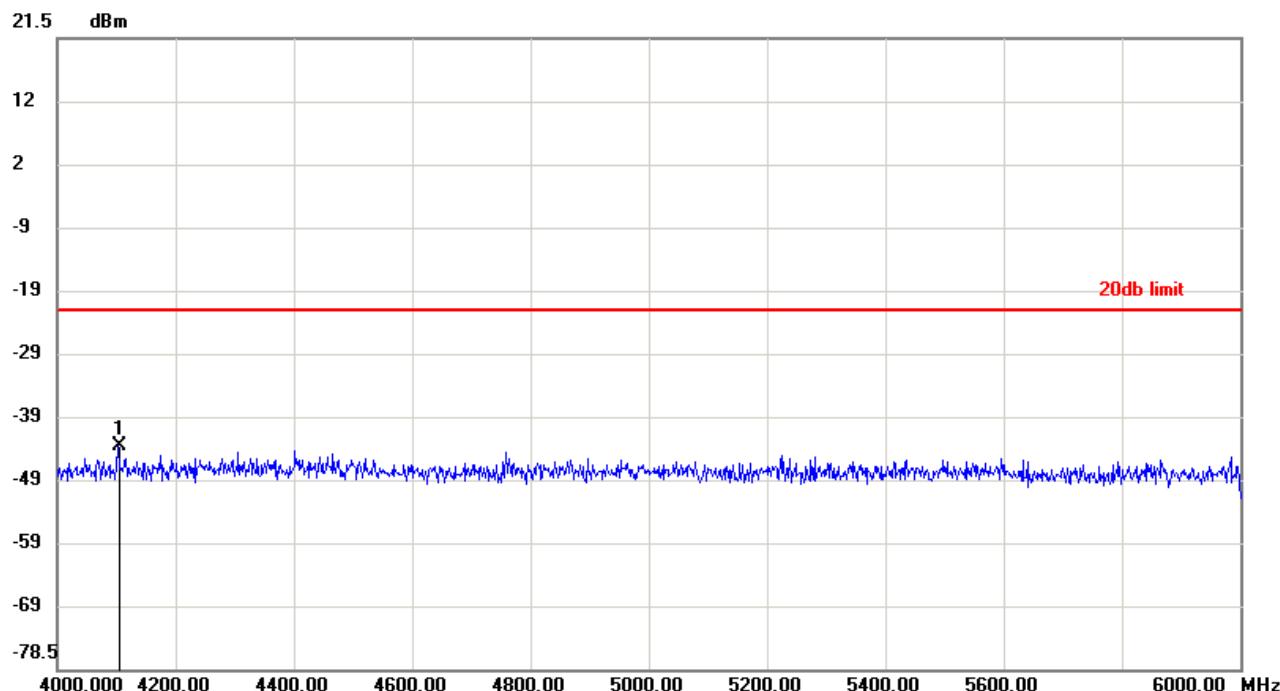
Test mode:	802.11n (HT20)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	418.9437	-42.04	-21.60	-20.44

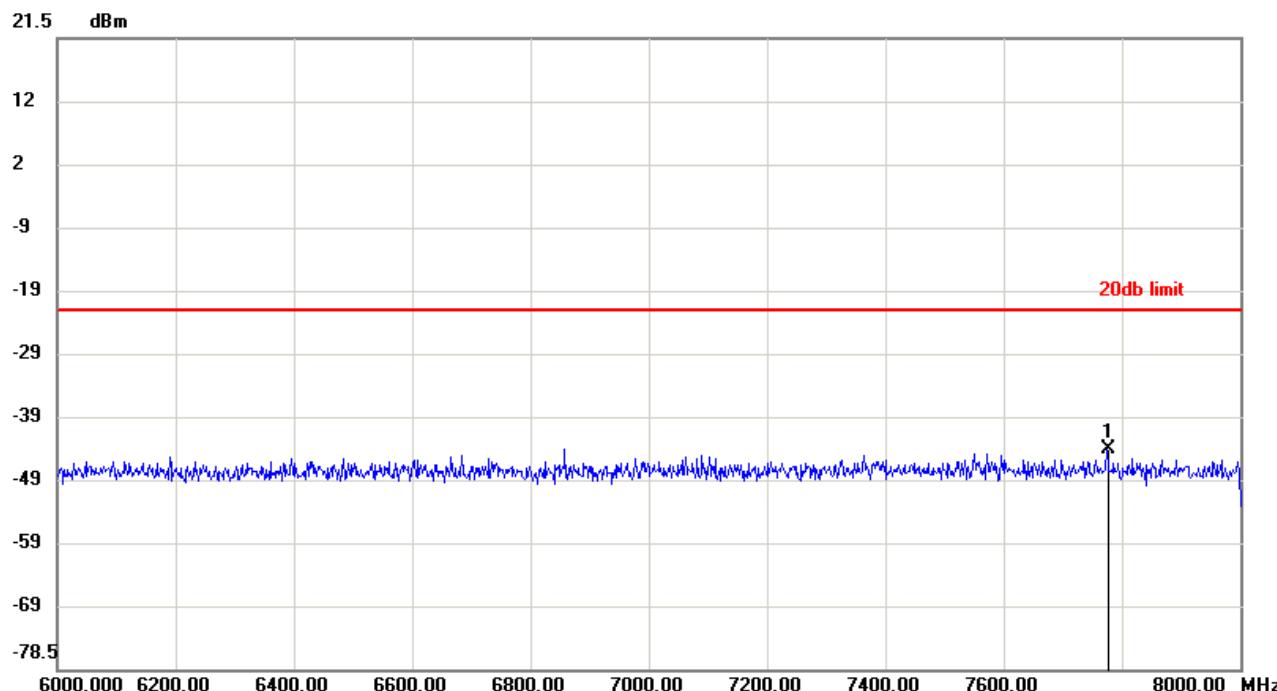


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2408.5333	-2.15	-21.60	19.45
2	2413.2000	-1.60	-21.60	20.00

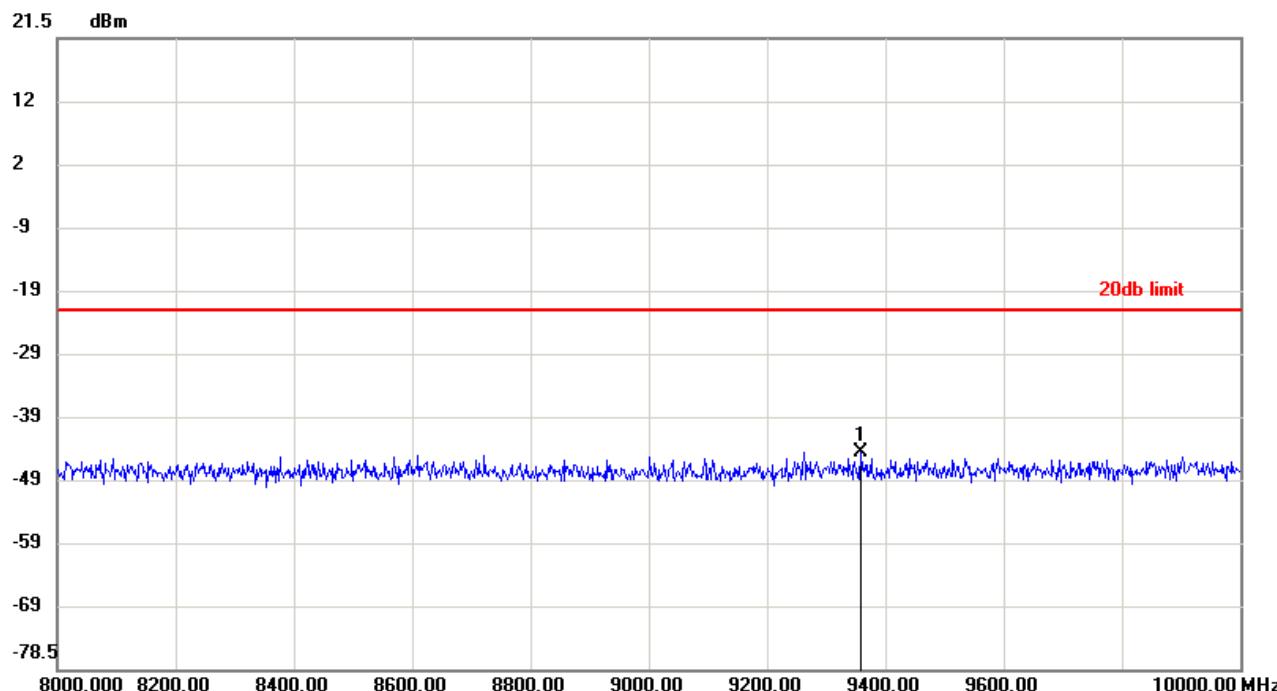


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4102.0667	-43.04	-21.60	-21.44

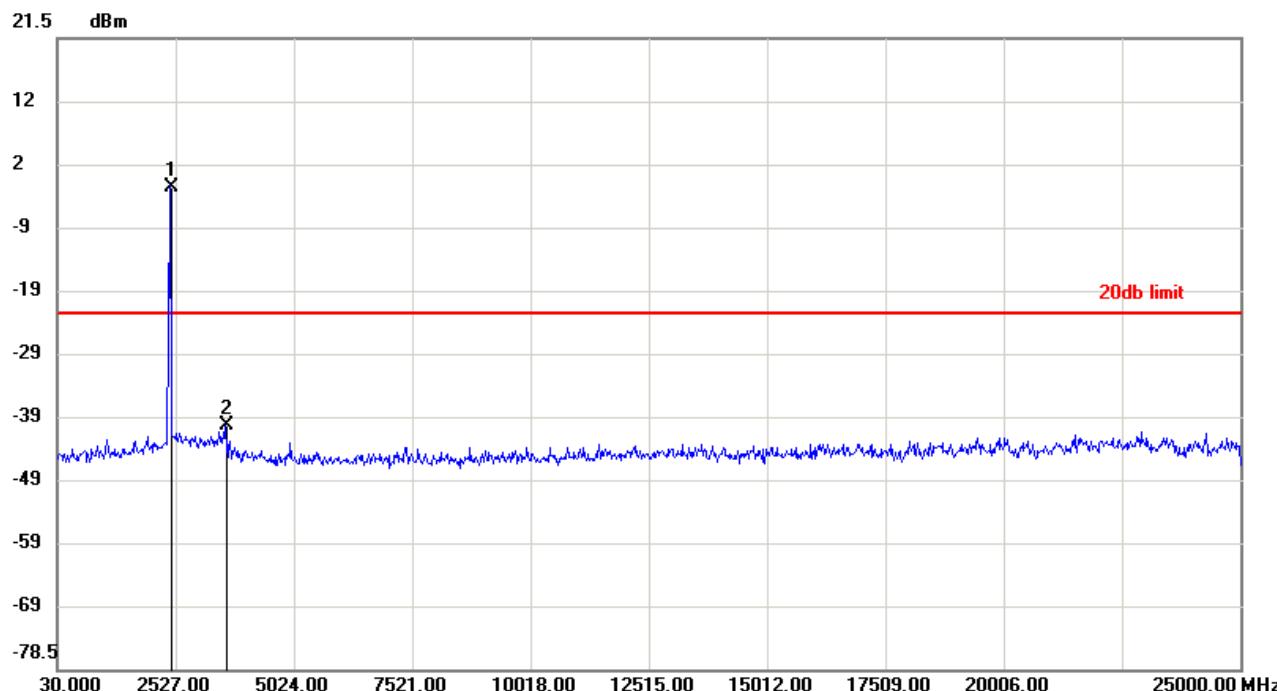




No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7774.6667	-43.59	-21.60	-21.99

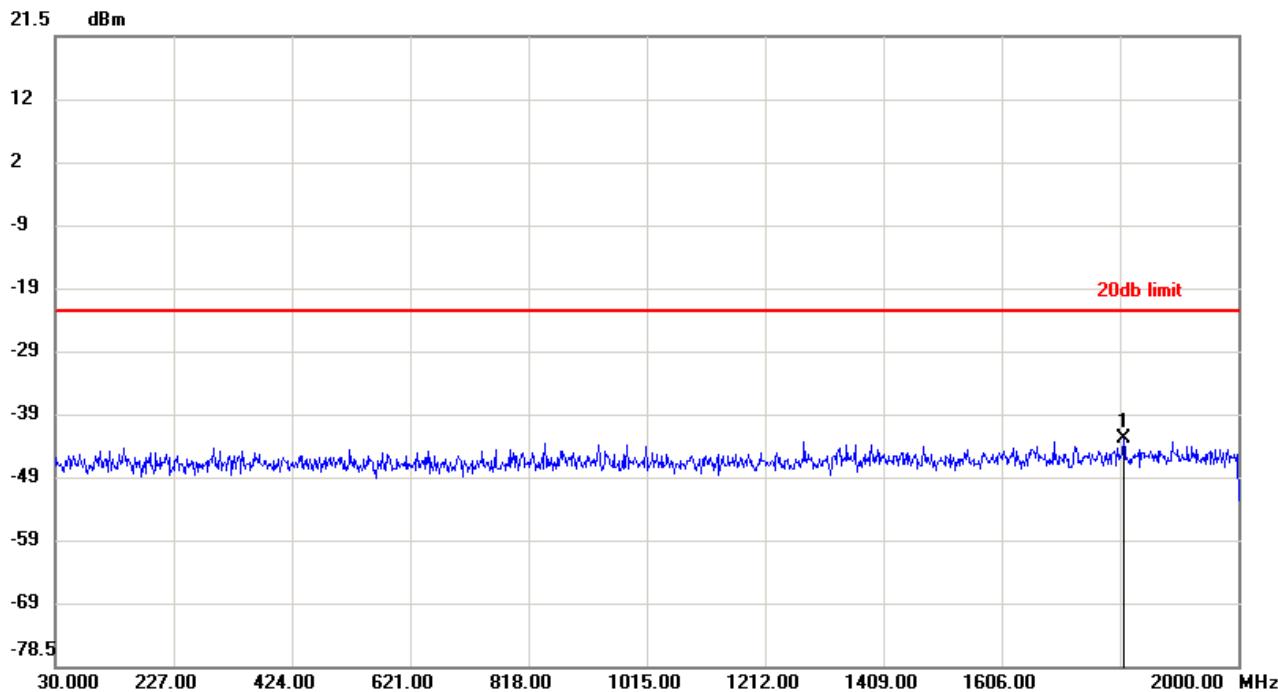


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9359.3333	-44.22	-21.60	-22.62

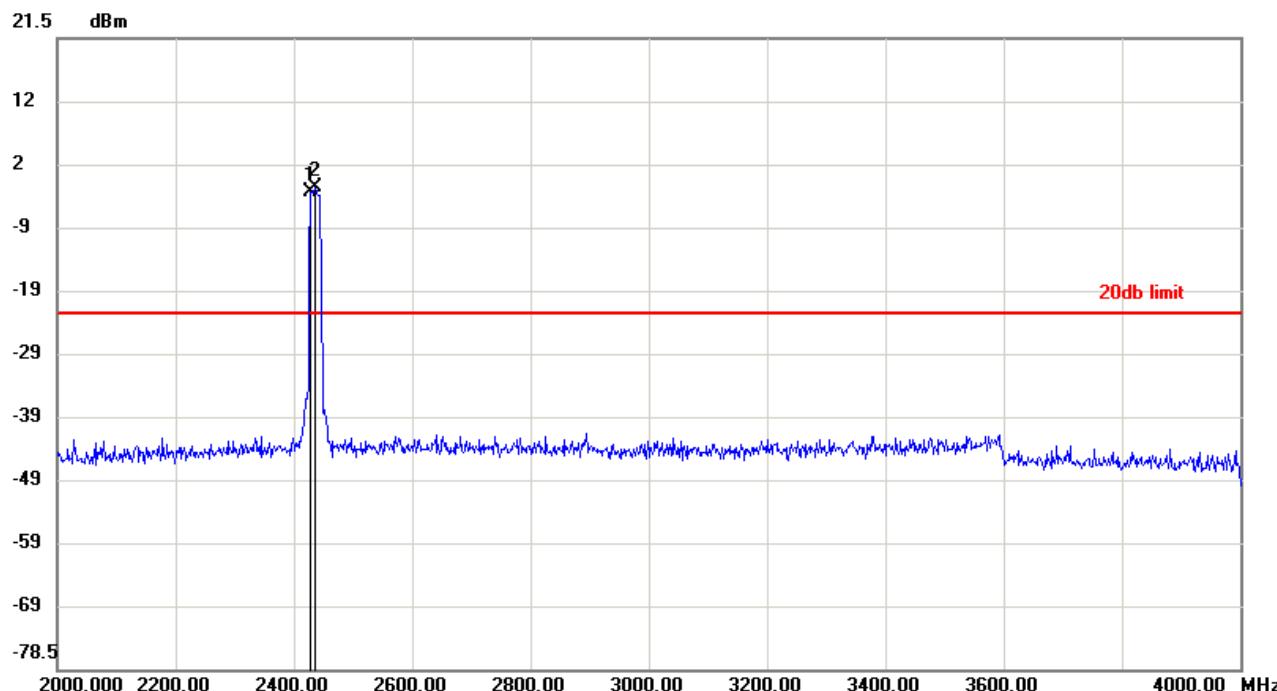


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2413.8027	-2.00	-22.00	20.00
2	3597.3807	-39.82	-22.00	-17.82

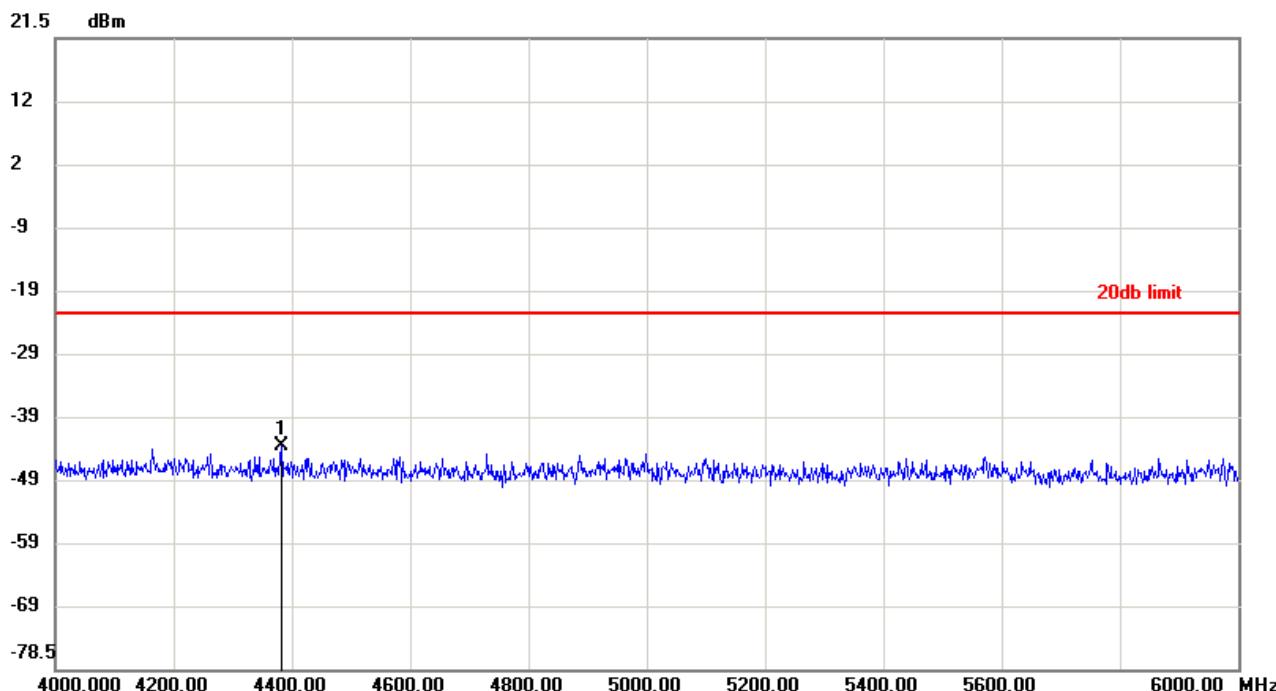
Test mode:	802.11n (HT20)	Test channel:	Middle
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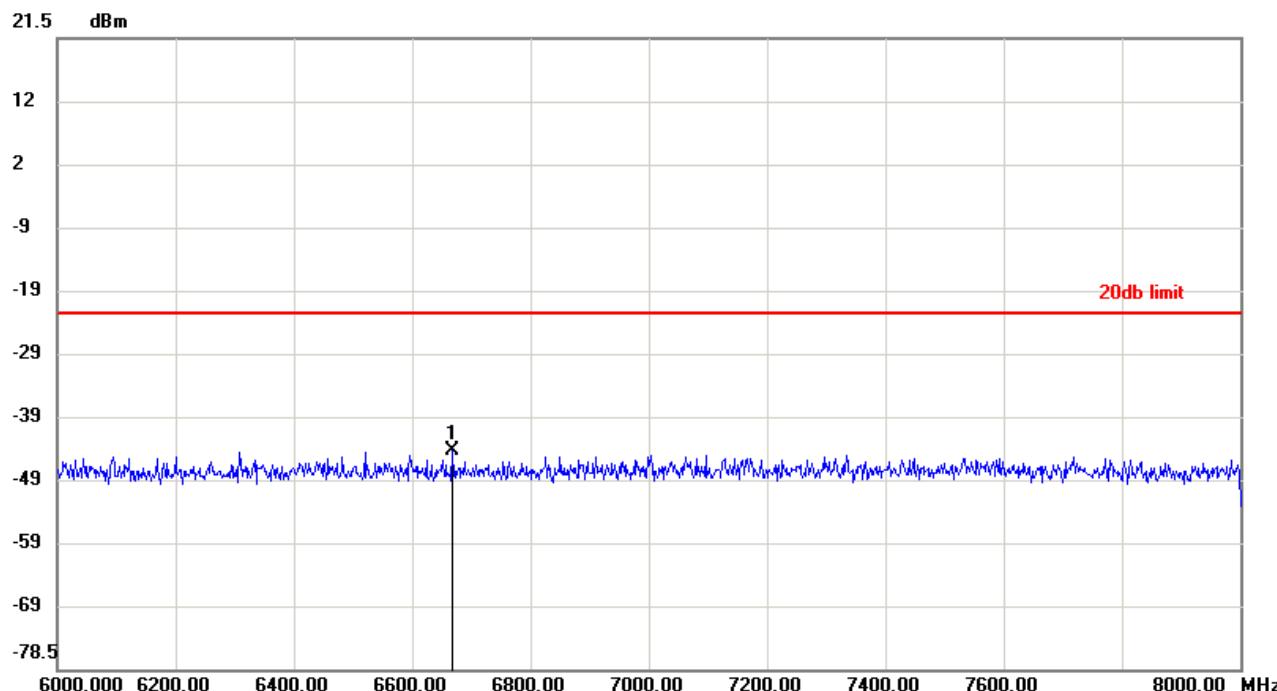
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1810.6173	-42.42	-22.13	-20.29



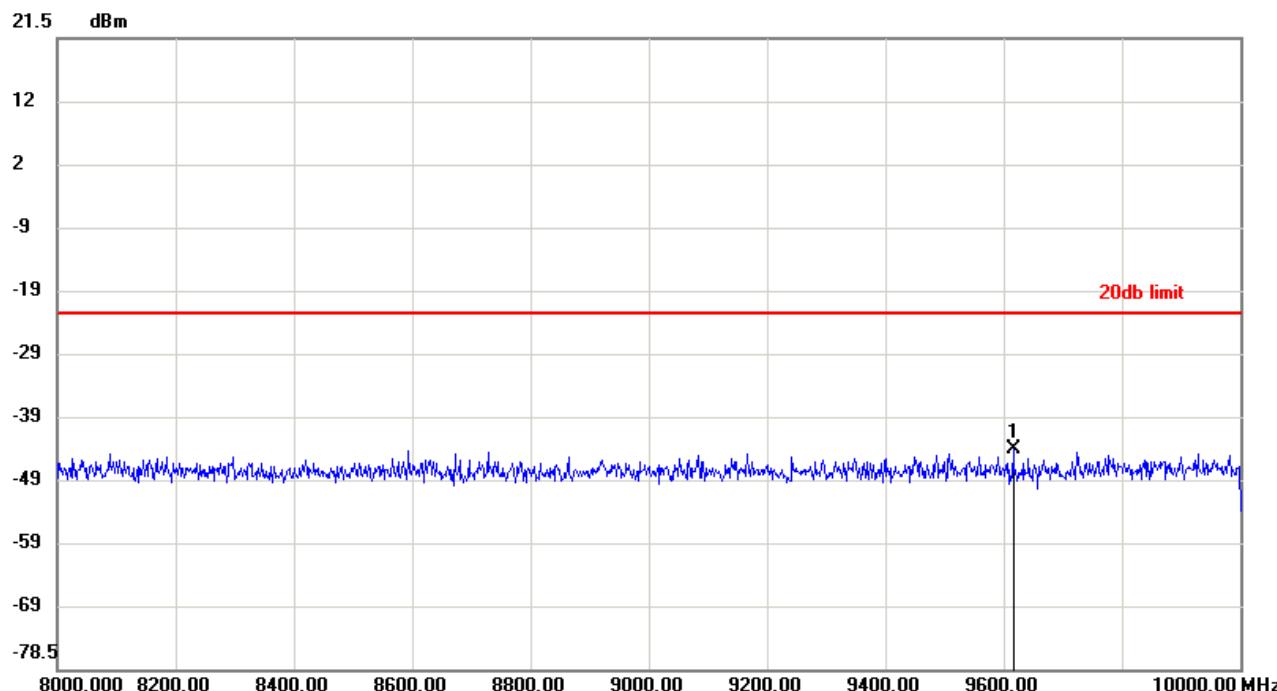
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.8000	-2.84	-22.13	19.29
2	2436.3333	-2.13	-22.13	20.00



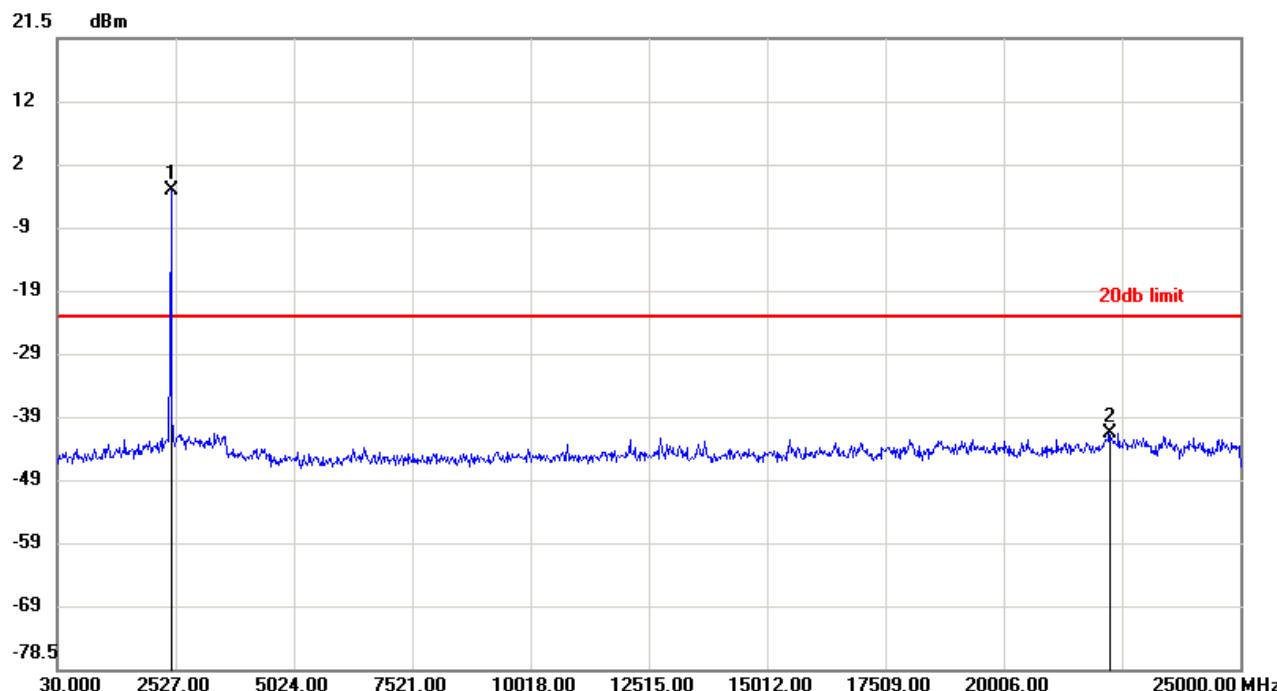
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4383.2000	-43.12	-22.13	-20.99



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6668.0000	-43.78	-22.13	-21.65



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9617.6667	-43.56	-22.13	-21.43



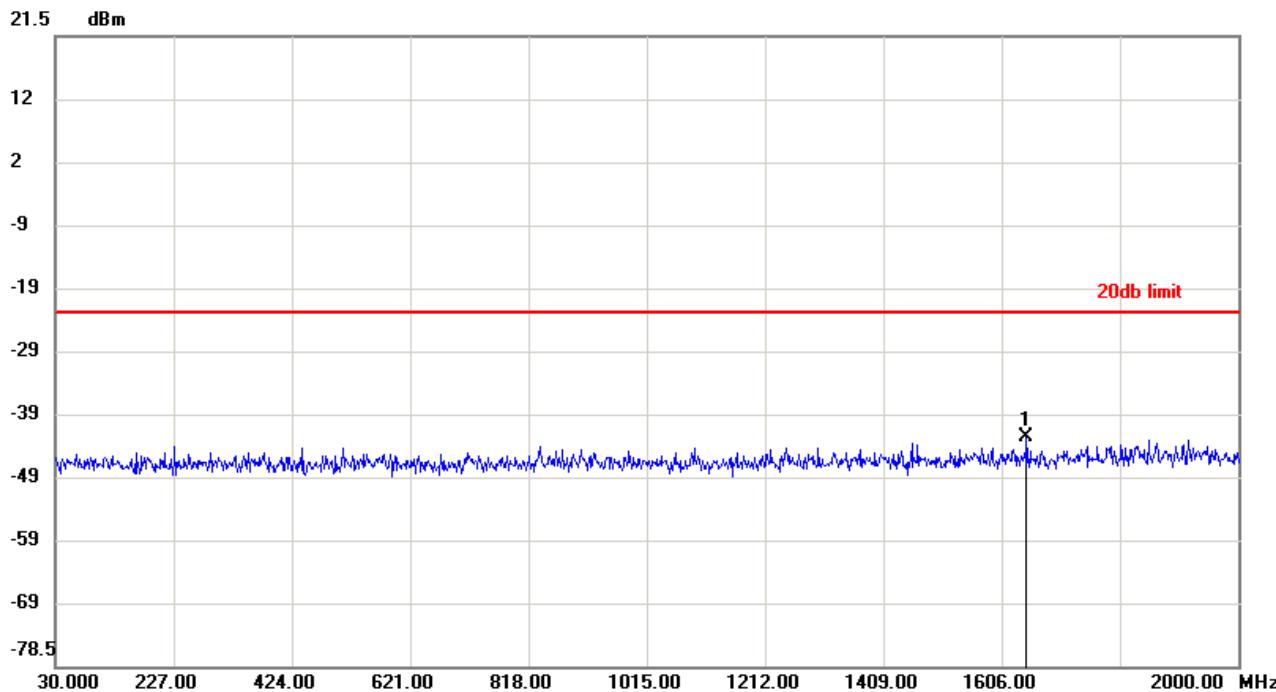
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2429.6170	-2.50	-22.50	20.00
2	22234.9887	-41.22	-22.50	-18.72



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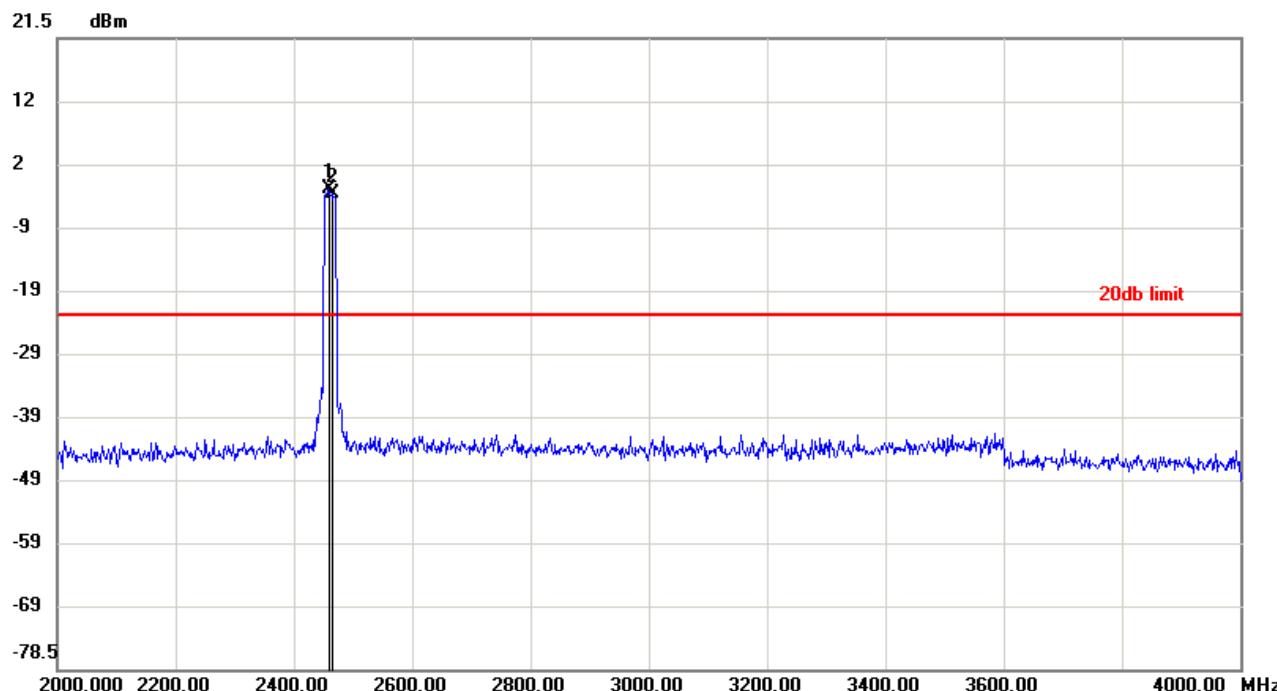
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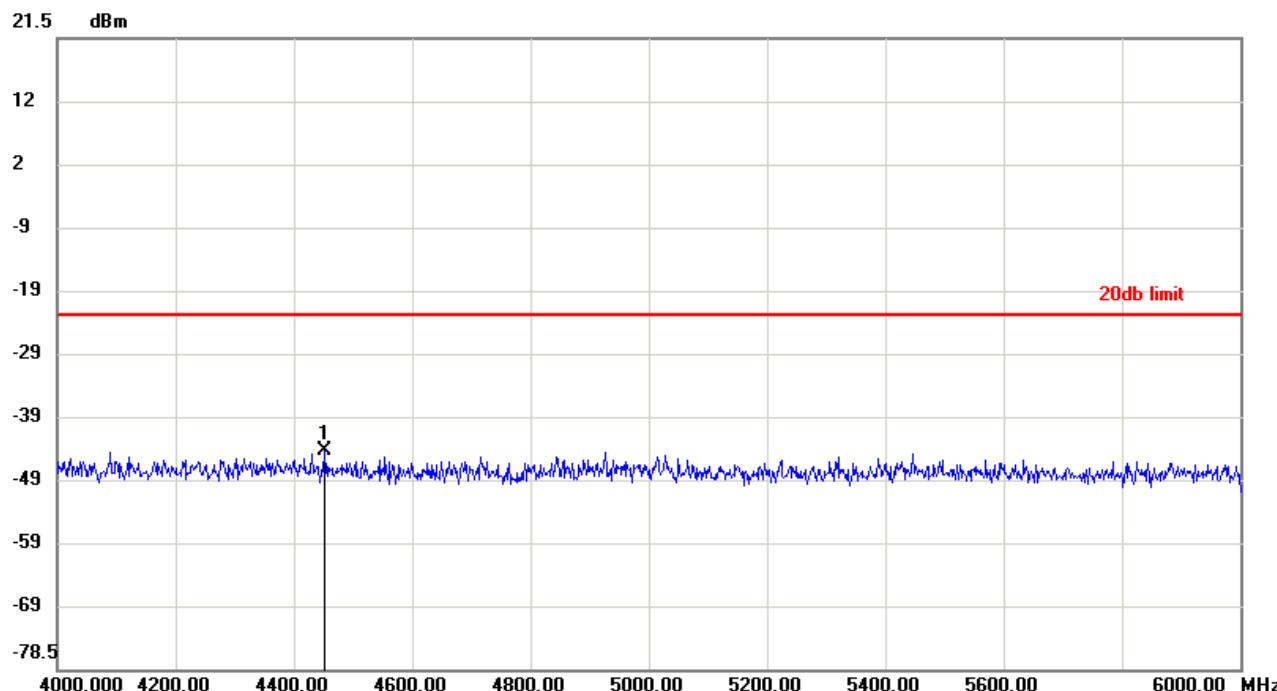
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1647.7640	-42.04	-22.37	-19.67



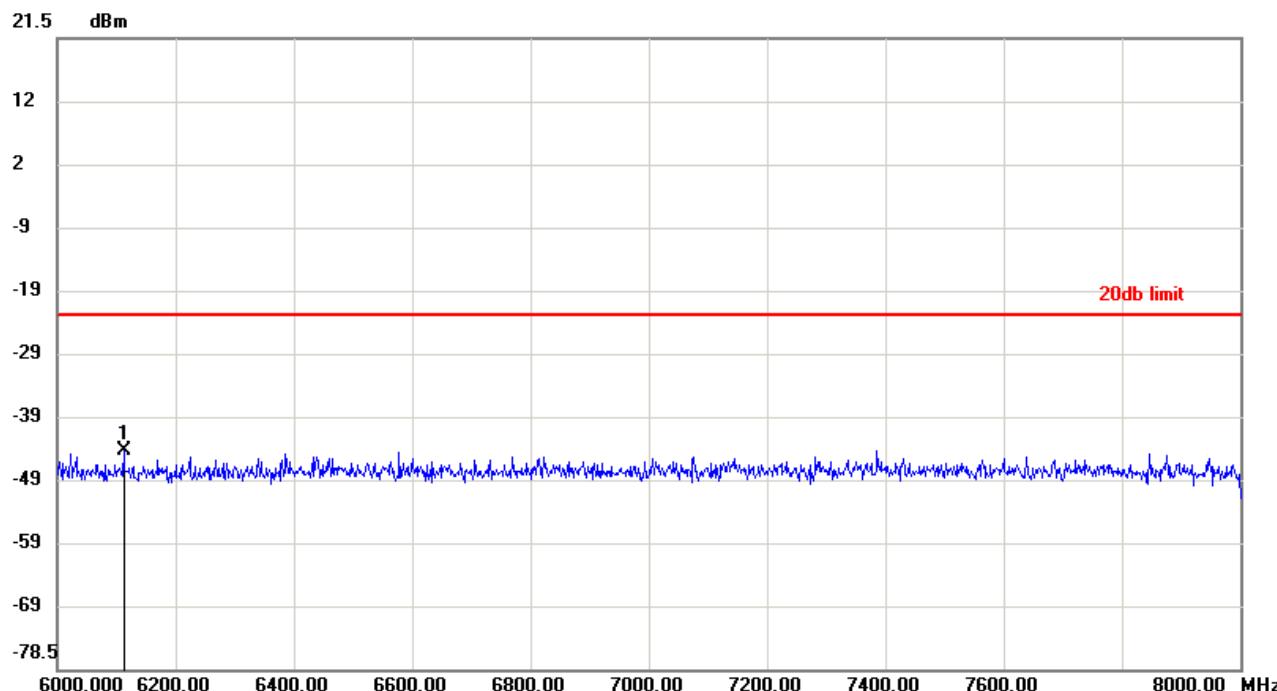
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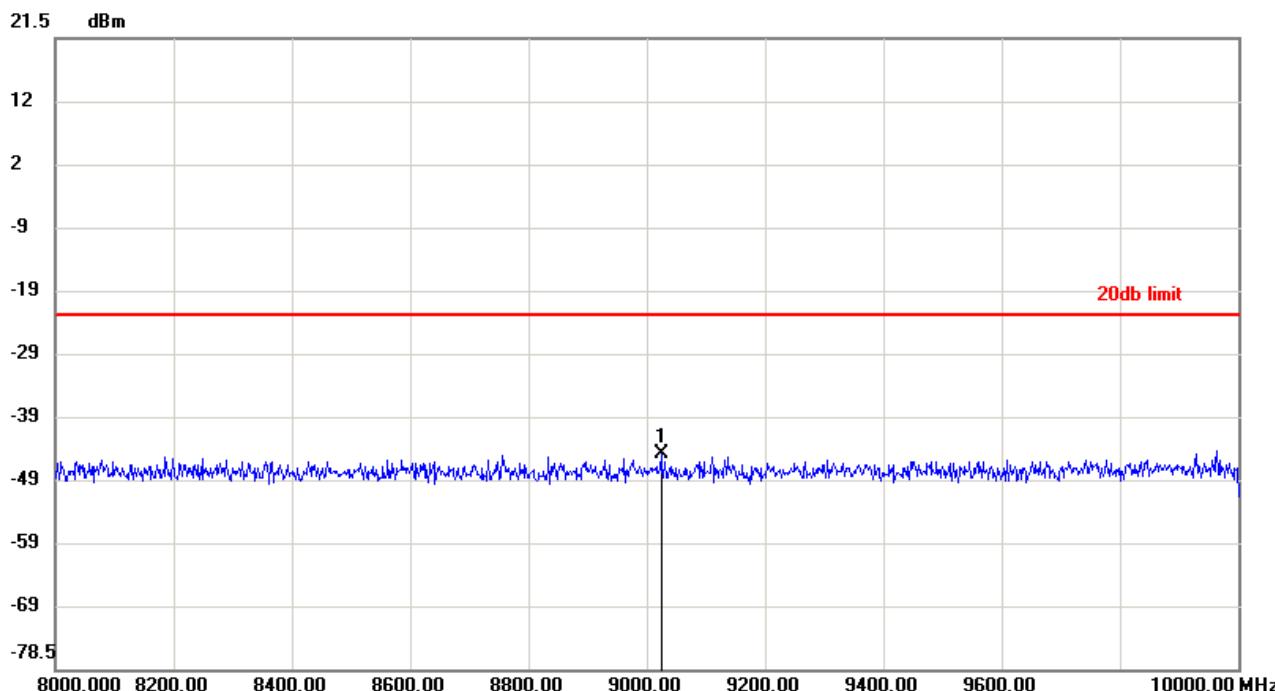
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.0667	-2.37	-22.37	20.00
2	2464.8000	-3.08	-22.37	19.29



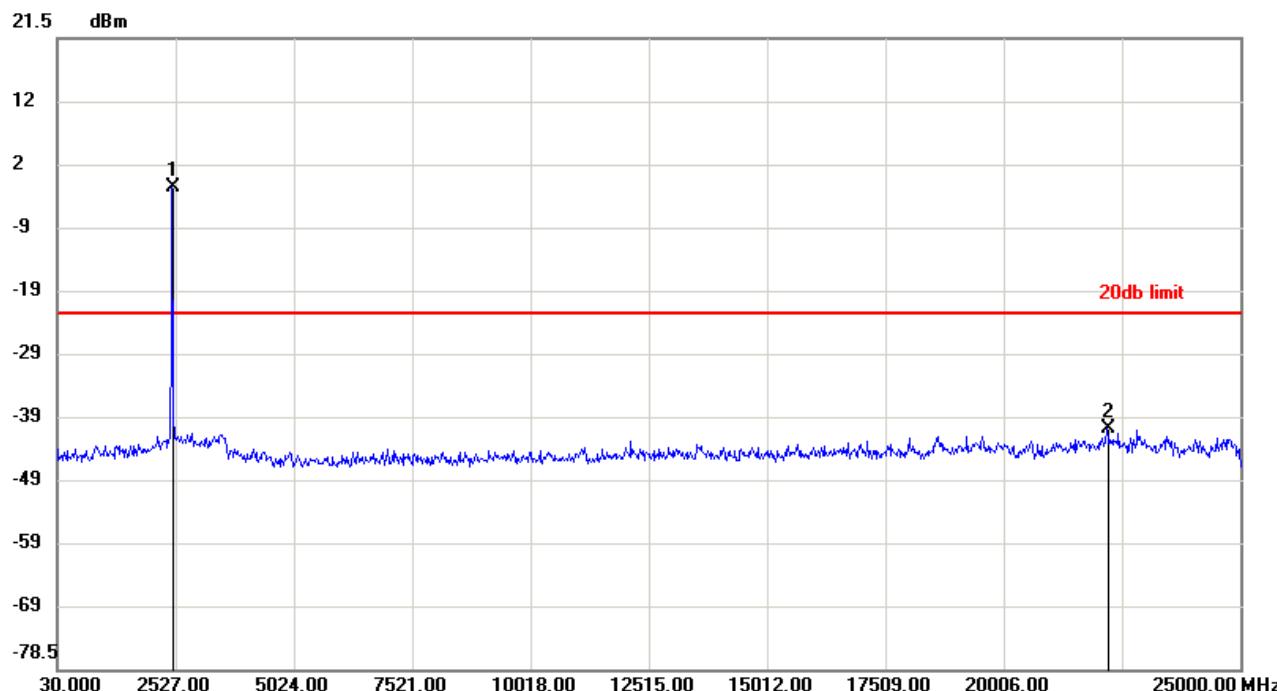
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4453.6000	-43.94	-22.37	-21.57



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6113.1333	-43.83	-22.37	-21.46



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9024.0667	-44.33	-22.37	-21.96



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2458.7487	-2.07	-22.07	20.00
2	22202.5277	-40.48	-22.07	-18.41

Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:	
Test Procedure: <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average 	



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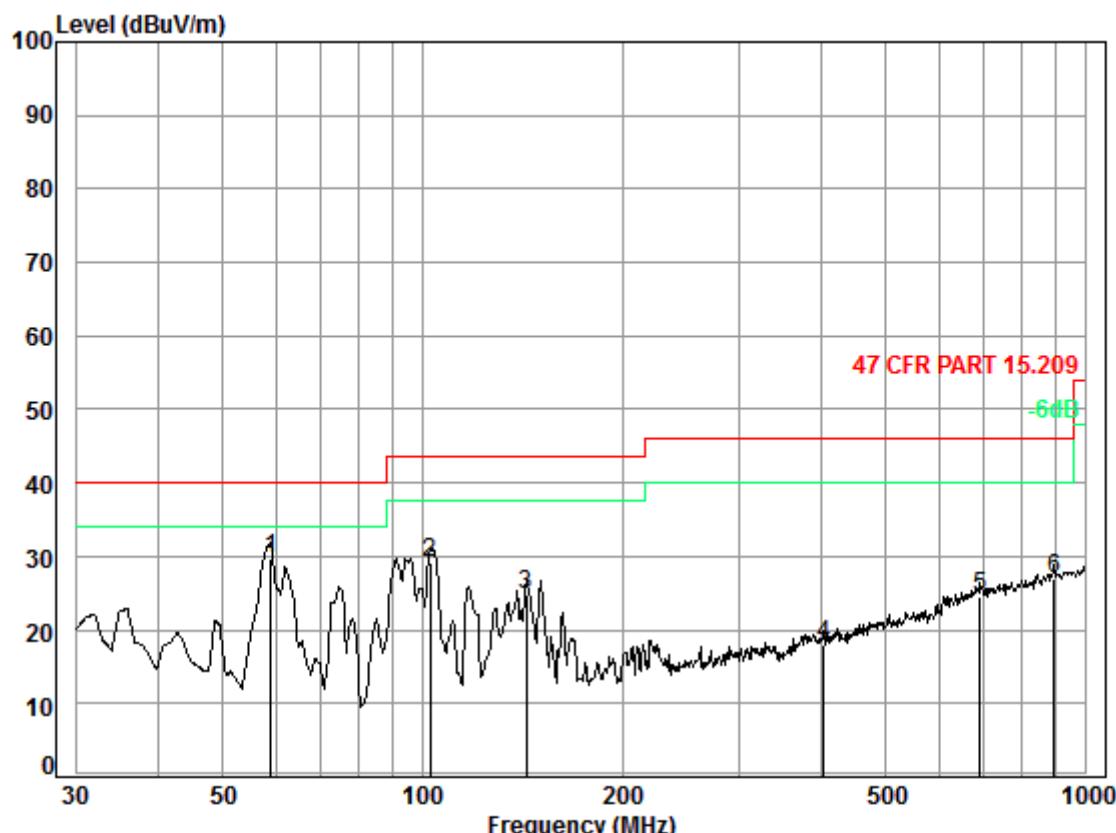
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	method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel h. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



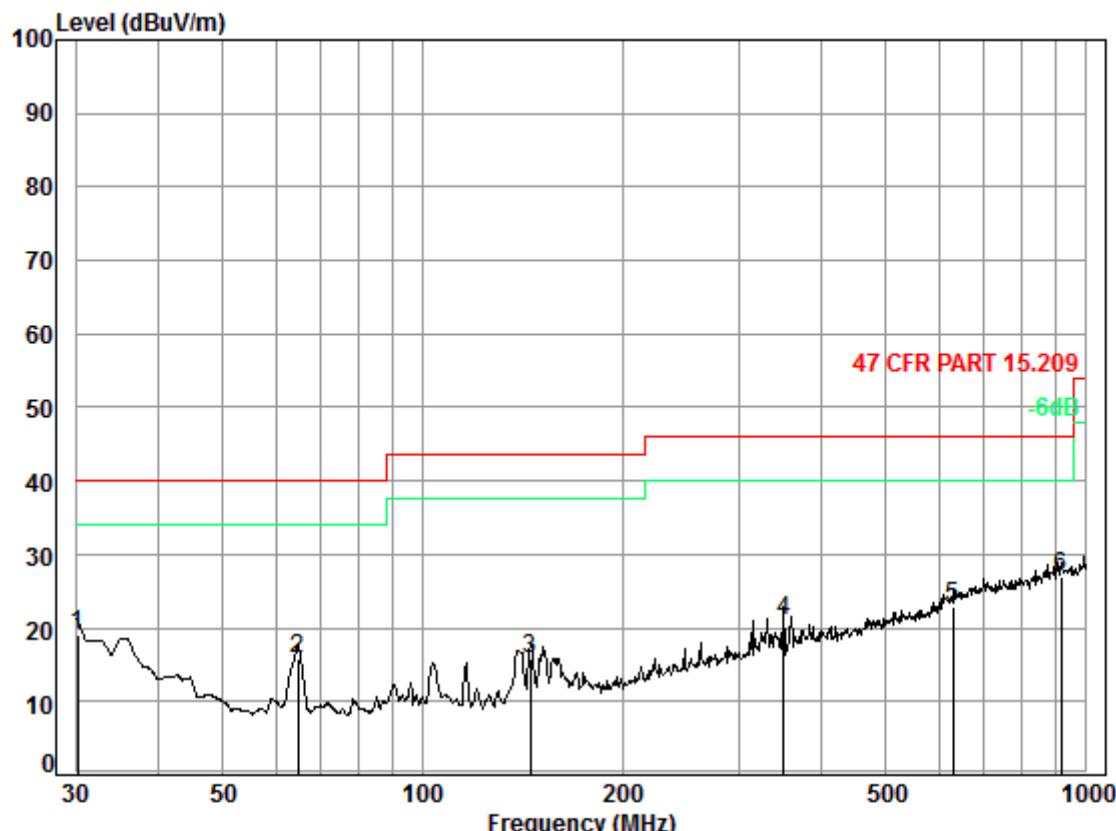
Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 3993CR

Test Mode: TX mode

Freq	Cable	Ant	Preamp	Read	Limit	Over	Line	Over
	Loss	Factor	Factor	Level				
1	59.03	0.80	7.35	27.27	48.90	29.78	40.00	-10.22
2	102.72	1.21	8.96	27.18	46.09	29.08	43.50	-14.42
3	143.33	1.30	8.40	26.94	42.10	24.86	43.50	-18.64
4	403.25	2.21	16.31	27.15	26.60	17.97	46.00	-28.03
5	691.99	2.89	21.54	27.42	27.48	24.49	46.00	-21.51
6	897.00	3.59	23.18	26.78	26.92	26.91	46.00	-19.09

Test mode:	Transmitting	Horizontal
------------	--------------	------------



Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 3993CR

Test Mode: TX mode

Freq	Cable	Ant	Preamp	Read	Limit	Over	Line	Over
	Freq	Loss	Factor	Level	Level	dBuV/m	dBuV/m	dB
1	30.11	0.60	18.64	27.36	27.10	18.98	40.00	-21.02
2	64.89	0.80	7.05	27.26	35.19	15.78	40.00	-24.22
3	145.35	1.31	8.58	26.93	32.81	15.77	43.50	-27.73
4	350.48	2.06	13.94	26.79	31.64	20.85	46.00	-25.15
5	631.69	2.77	20.53	27.50	27.14	22.94	46.00	-23.06
6	919.29	3.62	23.28	26.68	26.66	26.88	46.00	-19.12





6.8.2 Transmitter emission above 1GHz

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)		Polarization	
3780.095	-31.2	33.0	0.0	40.3	42.1	74.0	-31.9		Vertical	
4815.000	-30.4	34.3	0.0	41.1	45.0	74.0	-29.0		Vertical	
5940.000	-29.1	34.7	0.0	39.2	44.8	74.0	-29.2		Vertical	
7215.000	-27.9	35.8	0.0	37.2	45.1	74.0	-28.9		Vertical	
9630.000	-25.1	37.2	0.0	34.2	46.3	74.0	-27.7		Vertical	
12630.000	-23.0	38.1	0.0	34.2	49.3	74.0	-24.7		Vertical	
3825.000	-31.2	33.2	0.0	40.7	42.7	74.0	-31.3		Horizontal	
4815.000	-30.4	34.3	0.0	46.0	49.9	74.0	-24.1		Horizontal	
6000.000	-28.8	34.9	0.0	42.3	48.4	74.0	-25.6		Horizontal	
7230.000	-27.9	35.8	0.0	38.7	46.6	74.0	-27.4		Horizontal	
9630.000	-25.1	37.2	0.0	34.2	46.3	74.0	-27.7		Horizontal	
12600.000	-22.8	38.1	0.0	34.3	49.6	74.0	-24.4		Horizontal	

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)		Polarization	
3795.000	-31.2	33.1	0.0	39.8	41.7	74.0	-32.3		Vertical	
4875.288	-30.4	34.5	0.0	43.1	47.2	74.0	-26.8		Vertical	
5985.000	-28.9	34.8	0.0	39.5	45.4	74.0	-28.6		Vertical	
7485.000	-27.9	35.9	0.0	37.9	45.9	74.0	-28.1		Vertical	
9735.000	-25.0	37.3	0.0	34.5	46.8	74.0	-27.2		Vertical	
12300.000	-22.5	37.9	0.0	33.9	49.3	74.0	-24.7		Vertical	
3750.000	-31.1	32.9	0.0	41.2	43.0	74.0	-31.0		Horizontal	
4875.000	-30.4	34.5	0.0	43.5	47.6	74.0	-26.4		Horizontal	
6000.000	-28.8	34.9	0.0	41.5	47.6	74.0	-26.4		Horizontal	
7305.000	-27.9	35.7	0.0	38.6	46.4	74.0	-27.6		Horizontal	
9870.000	-24.0	37.3	0.0	35.2	48.5	74.0	-25.5		Horizontal	
12510.000	-23.0	38.0	0.0	34.9	49.9	74.0	-24.1		Horizontal	



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Test mode:		802.11b		Test channel:	Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3840.000	-31.2	33.3	0.0	39.5	41.6	74.0	-32.4	Vertical
4920.000	-30.3	34.6	0.0	42.4	46.7	74.0	-27.3	Vertical
6075.000	-29.1	35.0	0.0	39.4	45.3	74.0	-28.7	Vertical
7380.000	-27.9	35.7	0.0	38.3	46.1	74.0	-27.9	Vertical
9825.000	-24.4	37.3	0.0	34.5	47.4	74.0	-26.6	Vertical
12630.000	-23.0	38.1	0.0	34.7	49.8	74.0	-24.2	Vertical
3795.000	-31.2	33.1	0.0	40.9	42.8	74.0	-31.2	Horizontal
4920.000	-30.3	34.6	0.0	43.4	47.7	74.0	-26.3	Horizontal
6015.000	-28.9	34.9	0.0	39.1	45.1	74.0	-28.9	Horizontal
7395.000	-27.9	35.7	0.0	38.1	45.9	74.0	-28.1	Horizontal
9810.000	-24.5	37.3	0.0	34.5	47.3	74.0	-26.7	Horizontal
12330.000	-22.6	37.9	0.0	33.7	49.0	74.0	-25.0	Horizontal

Test mode:		802.11g		Test channel:	Lowest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3766.574	-31.1	32.9	0.0	40.1	41.9	74.0	-32.1	Vertical
4830.000	-30.4	34.4	0.0	38.7	42.7	74.0	-31.3	Vertical
5970.000	-28.9	34.8	0.0	38.3	44.2	74.0	-29.8	Vertical
7230.000	-27.9	35.8	0.0	36.7	44.6	74.0	-29.4	Vertical
9615.000	-25.1	37.2	0.0	33.5	45.6	74.0	-28.4	Vertical
12030.000	-23.1	37.8	0.0	33.5	48.2	74.0	-25.8	Vertical
3675.000	-31.2	32.6	0.0	40.3	41.7	74.0	-32.3	Horizontal
4815.000	-30.4	34.3	0.0	41.1	45.0	74.0	-29.0	Horizontal
6000.000	-28.8	34.9	0.0	41.2	47.3	74.0	-26.7	Horizontal
7230.000	-27.9	35.8	0.0	39.9	47.8	74.0	-26.2	Horizontal
9660.000	-25.0	37.2	0.0	34.0	46.2	74.0	-27.8	Horizontal
12090.000	-23.0	37.9	0.0	34.0	48.9	74.0	-25.1	Horizontal



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Test mode:		802.11g		Test channel:		Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3766.574	-31.1	32.9	0.0	39.5	41.3	74.0	-32.7	Vertical	
4875.288	-30.4	34.5	0.0	38.5	42.6	74.0	-31.4	Vertical	
5985.000	-28.9	34.8	0.0	39.0	44.9	74.0	-29.1	Vertical	
7320.000	-27.9	35.7	0.0	36.4	44.2	74.0	-29.8	Vertical	
9750.000	-25.0	37.3	0.0	33.7	46.0	74.0	-28.0	Vertical	
12165.000	-22.9	37.9	0.0	33.9	48.9	74.0	-25.1	Vertical	
3825.000	-31.2	33.2	0.0	39.7	41.7	74.0	-32.3	Horizontal	
4860.000	-30.4	34.5	0.0	39.2	43.3	74.0	-30.7	Horizontal	
5955.000	-29.0	34.7	0.0	38.7	44.4	74.0	-29.6	Horizontal	
7305.000	-27.9	35.7	0.0	38.9	46.7	74.0	-27.3	Horizontal	
9750.000	-25.0	37.3	0.0	33.5	45.8	74.0	-28.2	Horizontal	
12180.000	-22.9	37.9	0.0	33.1	48.1	74.0	-25.9	Horizontal	

Test mode:		802.11g		Test channel:		Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3890.032	-31.3	33.2	0.0	39.4	41.3	74.0	-32.7	Vertical	
4935.000	-30.3	34.6	0.0	39.3	43.6	74.0	-30.4	Vertical	
5940.000	-29.1	34.7	0.0	38.8	44.4	74.0	-29.6	Vertical	
7380.000	-27.9	35.7	0.0	37.1	44.9	74.0	-29.1	Vertical	
9840.000	-24.2	37.3	0.0	35.2	48.3	74.0	-25.7	Vertical	
12315.000	-22.5	37.9	0.0	33.3	48.7	74.0	-25.3	Vertical	
3930.000	-31.2	33.2	0.0	39.3	41.3	74.0	-32.7	Horizontal	
4920.000	-30.3	34.6	0.0	38.7	43.0	74.0	-31.0	Horizontal	
5955.000	-29.0	34.7	0.0	39.1	44.8	74.0	-29.2	Horizontal	
7395.000	-27.9	35.7	0.0	40.8	48.6	74.0	-25.4	Horizontal	
9870.000	-24.0	37.3	0.0	33.8	47.1	74.0	-26.9	Horizontal	
12300.000	-22.5	37.9	0.0	33.4	48.8	74.0	-25.2	Horizontal	



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Test mode:		802.11n(HT20)		Test channel:	Lowest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3814.113	-31.2	33.2	0.0	40.0	42.0	74.0	-32.0	Vertical
4831.806	-30.4	34.4	0.0	38.8	42.8	74.0	-31.2	Vertical
5910.000	-29.2	34.6	0.0	38.8	44.2	74.0	-29.8	Vertical
7230.000	-27.9	35.8	0.0	36.6	44.5	74.0	-29.5	Vertical
9630.000	-25.1	37.2	0.0	33.7	45.8	74.0	-28.2	Vertical
12030.000	-23.1	37.8	0.0	34.5	49.2	74.0	-24.8	Vertical
3870.000	-31.3	33.3	0.0	39.1	41.1	74.0	-32.9	Horizontal
4830.000	-30.4	34.4	0.0	40.6	44.6	74.0	-29.4	Horizontal
5970.000	-28.9	34.8	0.0	38.4	44.3	74.0	-29.7	Horizontal
7230.000	-27.9	35.8	0.0	37.0	44.9	74.0	-29.1	Horizontal
9585.000	-25.1	37.2	0.0	34.3	46.4	74.0	-27.6	Horizontal
12135.000	-23.0	37.9	0.0	34.6	49.5	74.0	-24.5	Horizontal

Test mode:		802.11n(HT20)		Test channel:	Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3900.000	-31.3	33.2	0.0	40.3	42.2	74.0	-31.8	Vertical
4890.000	-30.3	34.6	0.0	39.4	43.7	74.0	-30.3	Vertical
6000.000	-28.8	34.9	0.0	39.8	45.9	74.0	-28.1	Vertical
7320.000	-27.9	35.7	0.0	36.3	44.1	74.0	-29.9	Vertical
9705.000	-25.0	37.2	0.0	34.4	46.6	74.0	-27.4	Vertical
12315.000	-22.5	37.9	0.0	33.4	48.8	74.0	-25.2	Vertical
3885.000	-31.3	33.2	0.0	41.4	43.3	74.0	-30.7	Horizontal
4860.000	-30.4	34.5	0.0	40.1	44.2	74.0	-29.8	Horizontal
5955.000	-29.0	34.7	0.0	39.1	44.8	74.0	-29.2	Horizontal
7305.000	-27.9	35.7	0.0	37.3	45.1	74.0	-28.9	Horizontal
9735.000	-25.0	37.3	0.0	34.8	47.1	74.0	-26.9	Horizontal
12030.000	-23.1	37.8	0.0	34.1	48.8	74.0	-25.2	Horizontal



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Test mode:		802.11n(HT20)		Test channel:		Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3870.000	-31.3	33.3	0.0	38.8	40.8	74.0	-33.2	Vertical	
4920.000	-30.3	34.6	0.0	39.6	43.9	74.0	-30.1	Vertical	
5940.000	-29.1	34.7	0.0	38.8	44.4	74.0	-29.6	Vertical	
7380.000	-27.9	35.7	0.0	36.6	44.4	74.0	-29.6	Vertical	
9840.000	-24.2	37.3	0.0	34.7	47.8	74.0	-26.2	Vertical	
12315.000	-22.5	37.9	0.0	33.5	48.9	74.0	-25.1	Vertical	
3841.547	-31.2	33.3	0.0	39.7	41.8	74.0	-32.2	Horizontal	
4920.000	-30.3	34.6	0.0	38.9	43.2	74.0	-30.8	Horizontal	
5955.000	-29.0	34.7	0.0	40.2	45.9	74.0	-28.1	Horizontal	
7380.000	-27.9	35.7	0.0	37.7	45.5	74.0	-28.5	Horizontal	
9840.000	-24.2	37.3	0.0	33.7	46.8	74.0	-27.2	Horizontal	
12285.000	-22.5	37.9	0.0	33.1	48.5	74.0	-25.5	Horizontal	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 2009					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Limit:	Frequency	Limit (dBuV/m @3m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak Value			
	88MHz-216MHz	43.5	Quasi-peak Value			
	216MHz-960MHz	46.0	Quasi-peak Value			
	960MHz-1GHz	54.0	Quasi-peak Value			
	Above 1GHz	54.0	Average Value			
		74.0	Peak Value			
Test Setup:						
Figure 1. 30MHz to 1GHz		Figure 2. Above 1 GHz				

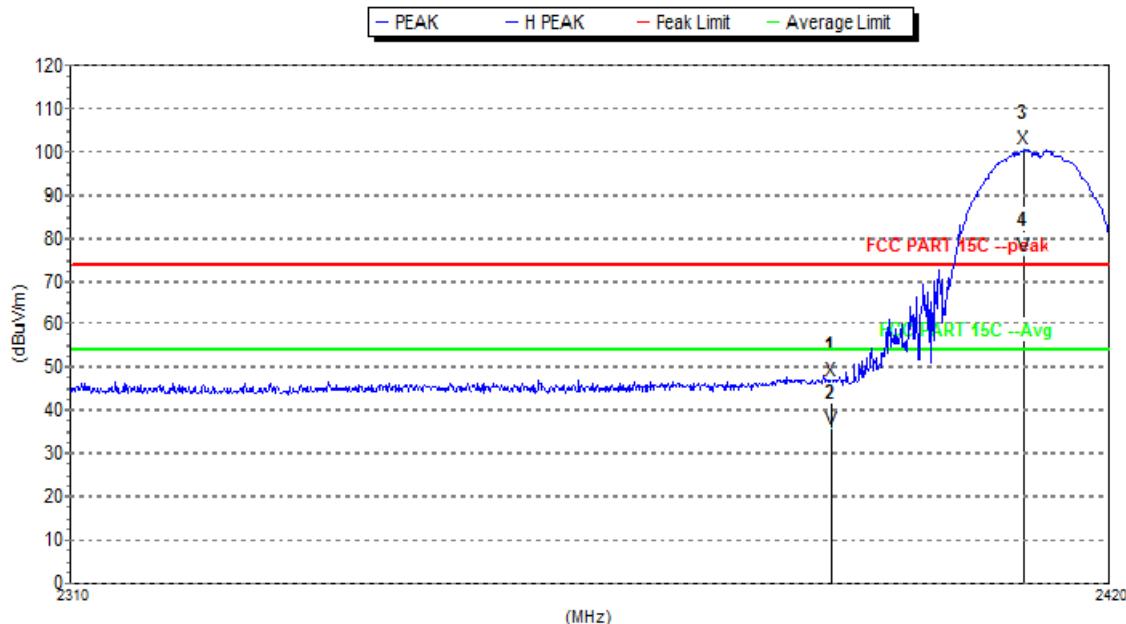


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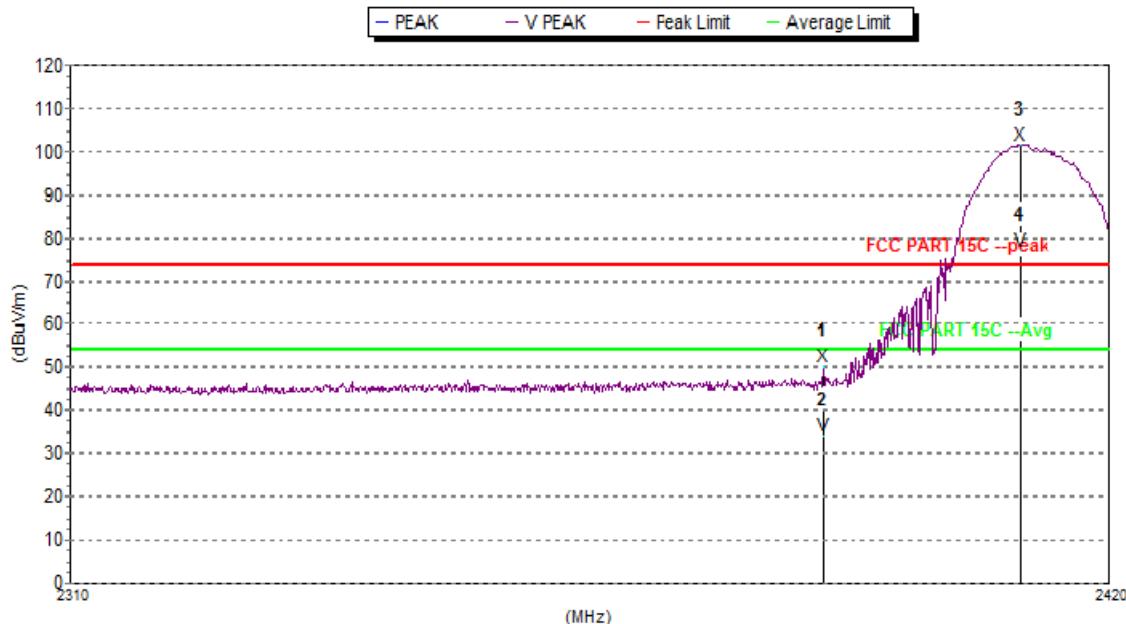
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Test Procedure:	<ol style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

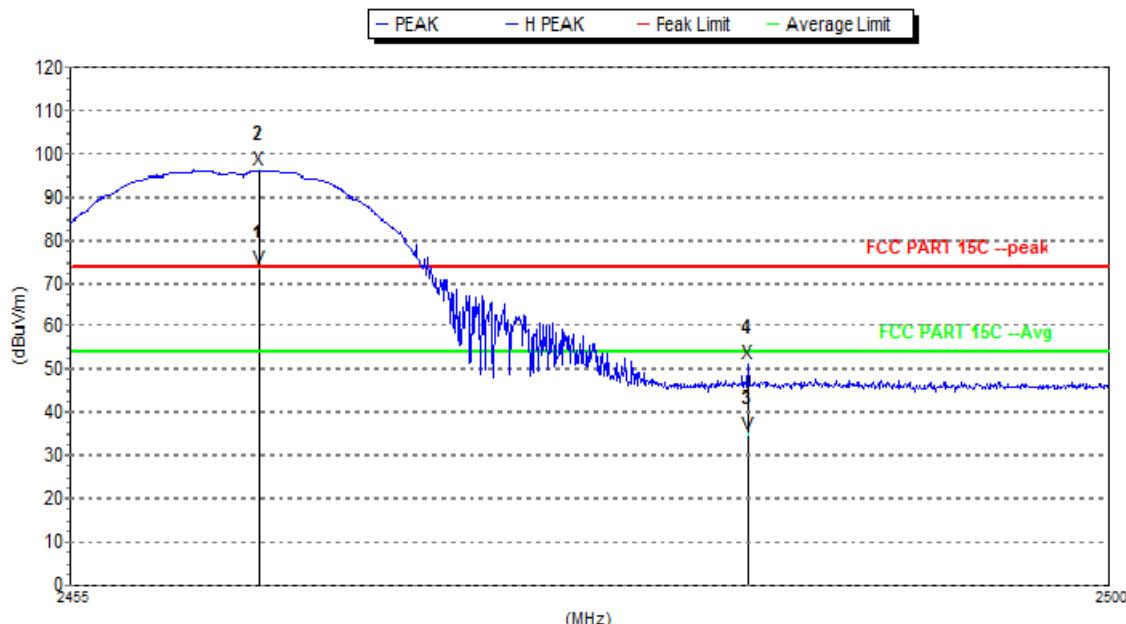
802.11b:



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390.000	47.1	74.0	26.9	32.5	0.0	-19.3	H
2 F	2410.760	100.6	74.0	-26.6	32.6	0.0	-19.3	H
Avg								
1	2390.000	35.9	54.0	18.1	32.5	0.0	-19.3	H
2 F	2410.760	75.9	54.0	-21.9	32.6	0.0	-19.3	H

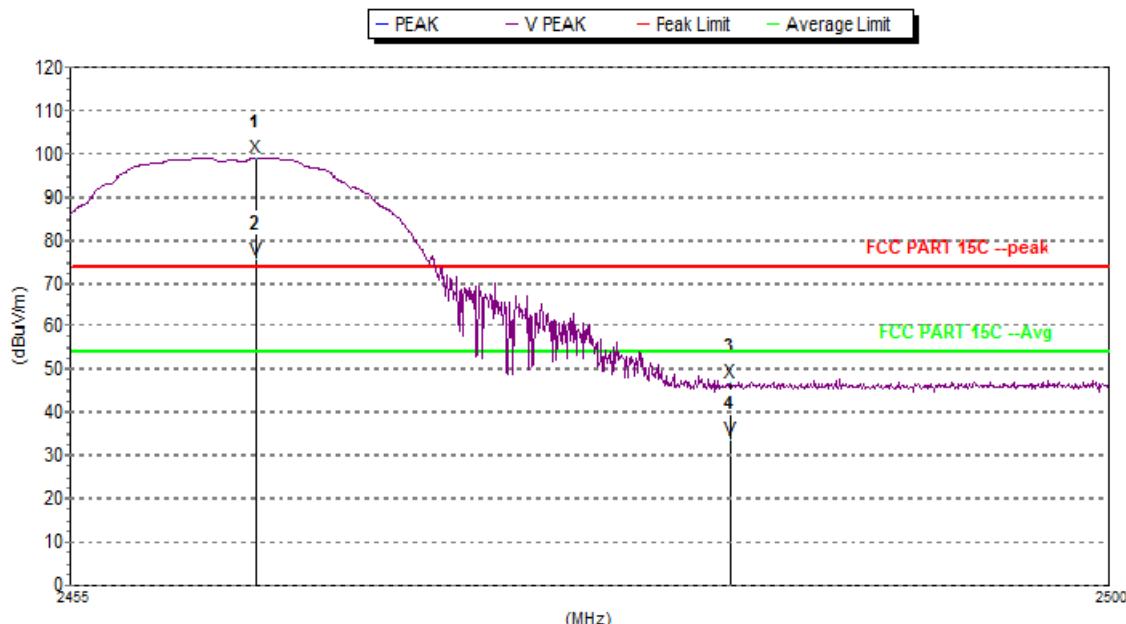


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2389.200	50.2	74.0	23.8	32.5	0.0	-19.3	V
2 F	2410.430	101.5	74.0	-27.5	32.6	0.0	-19.3	V
Avg								
1	2389.200	34.1	54.0	19.9	32.5	0.0	-19.3	V
2 F	2410.430	76.9	54.0	-22.9	32.6	0.0	-19.3	V



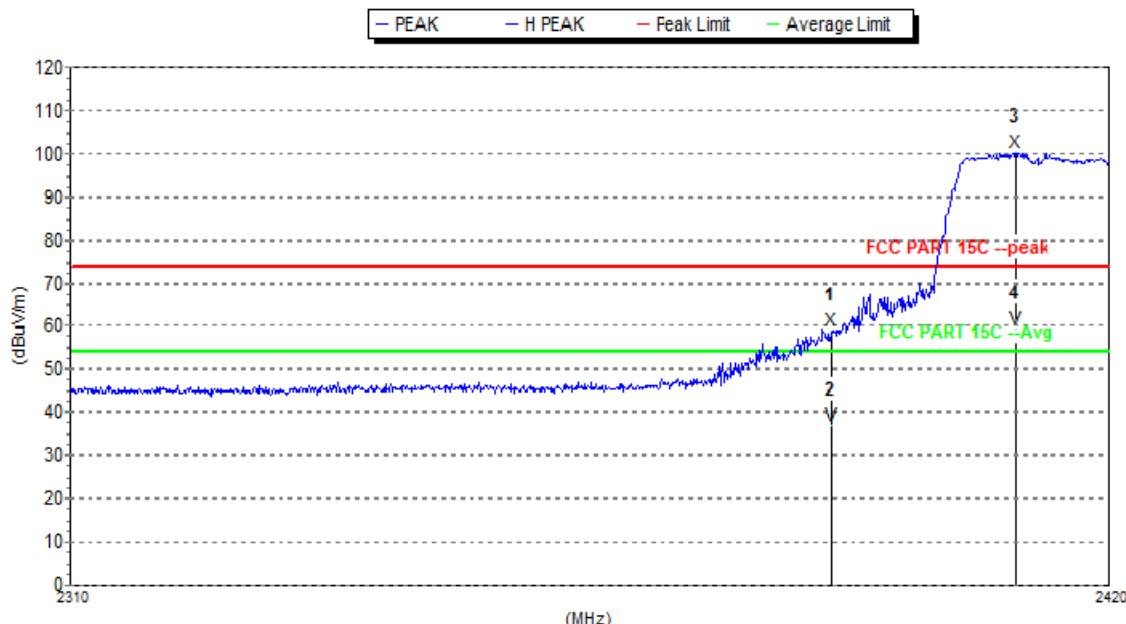
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2463.100	96.3	74.0	-22.3	32.5	0.0	-19.2	H
2	2484.295	51.3	74.0	22.7	32.5	0.0	-19.0	H
Avg								
1 F	2463.100	73.6	54.0	-19.6	32.5	0.0	-19.2	H
2	2484.295	34.8	54.0	19.2	32.5	0.0	-19.0	H



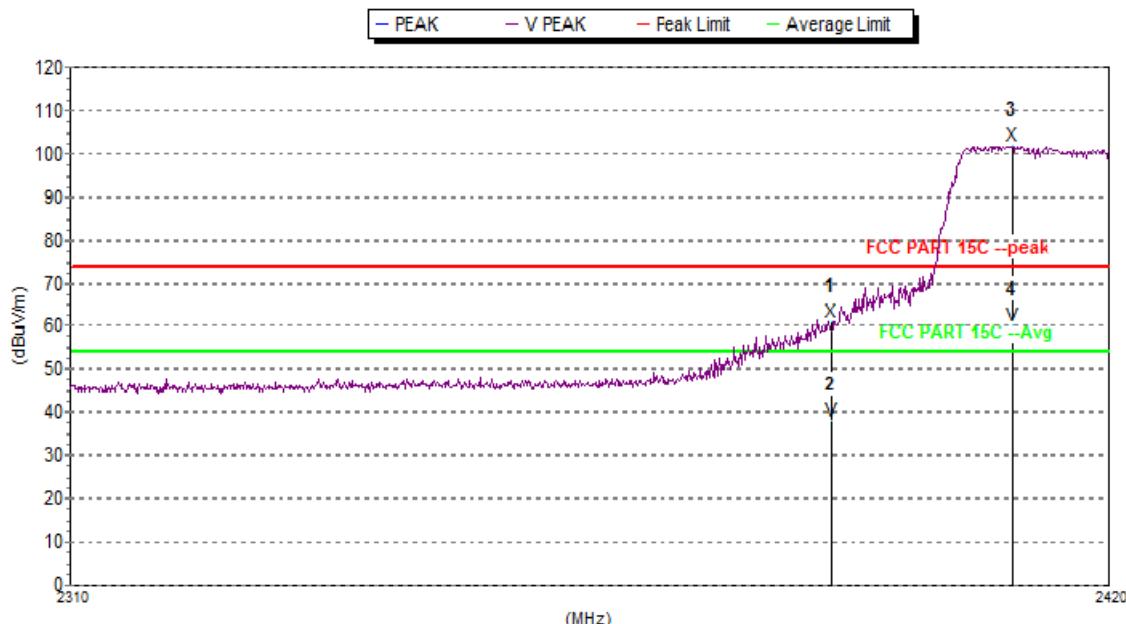


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2463.010	99.3	74.0	-25.3	32.5	0.0	-19.2	V
2	2483.500	47.0	74.0	27.0	32.5	0.0	-19.1	V
Avg								
1 F	2463.010	75.4	54.0	-21.4	32.5	0.0	-19.2	V
2	2483.500	33.9	54.0	20.1	32.5	0.0	-19.1	V

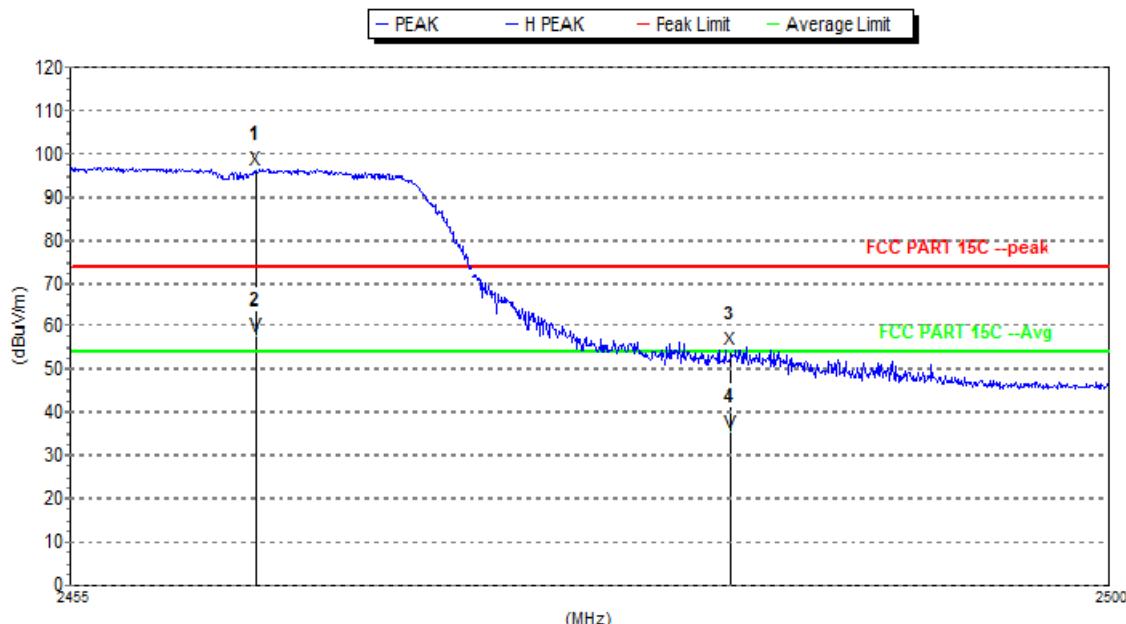
802.11g:



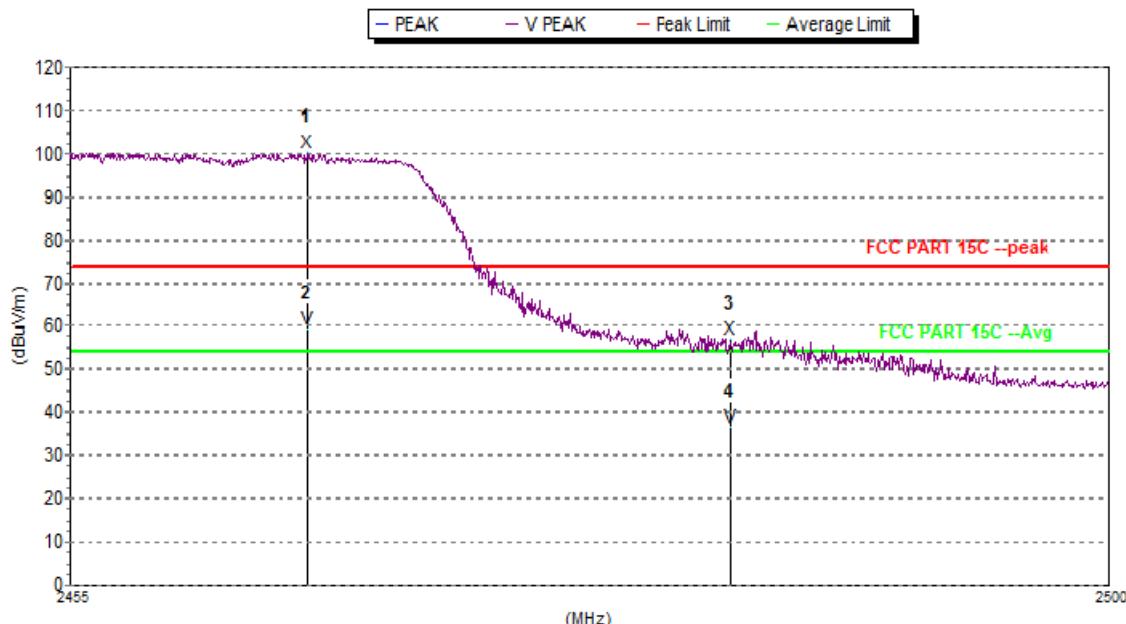
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390.000	58.9	74.0	15.1	32.5	0.0	-19.3	H
2 F	2409.880	100.2	74.0	-26.2	32.6	0.0	-19.3	H
Avg								
1	2390.000	36.9	54.0	17.1	32.5	0.0	-19.3	H
2 F	2409.880	59.3	54.0	-5.3	32.6	0.0	-19.3	H



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390.000	61.2	74.0	12.8	32.5	0.0	-19.3	V
2 F	2409.440	101.8	74.0	-27.8	32.6	0.0	-19.3	V
Avg								
1	2390.000	38.2	54.0	15.8	32.5	0.0	-19.3	V
2 F	2409.440	60.1	54.0	-6.1	32.6	0.0	-19.3	V

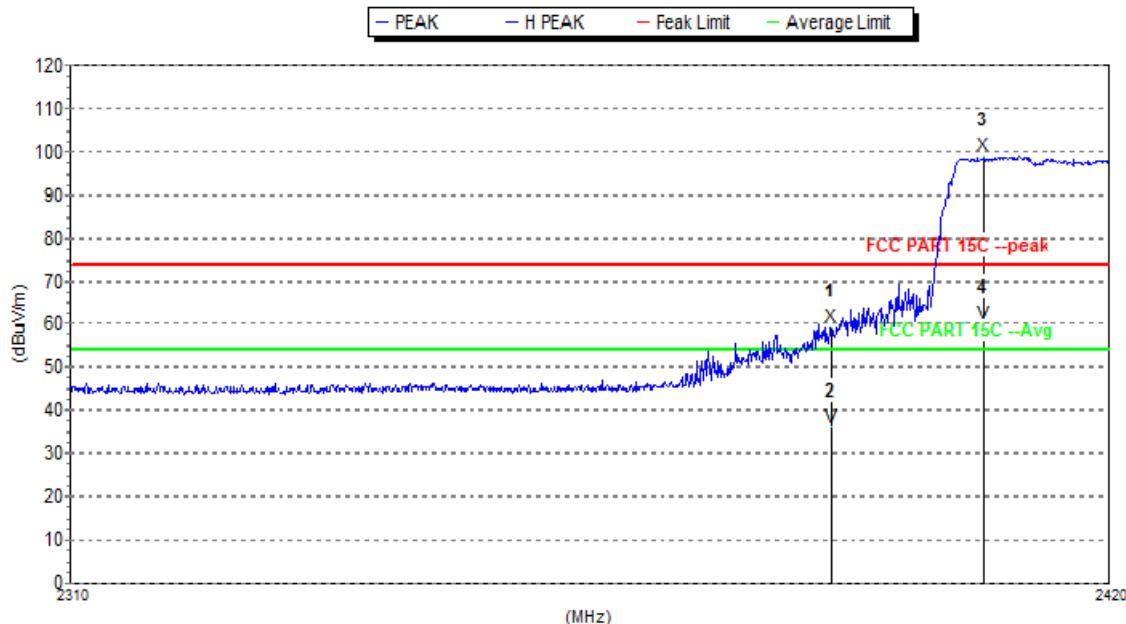


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2462.965	96.3	74.0	-22.3	32.5	0.0	-19.2	H
2	2483.500	54.4	74.0	19.6	32.5	0.0	-19.1	H
Avg								
1 F	2462.965	57.8	54.0	-3.8	32.5	0.0	-19.2	H
2	2483.500	35.3	54.0	18.7	32.5	0.0	-19.1	H

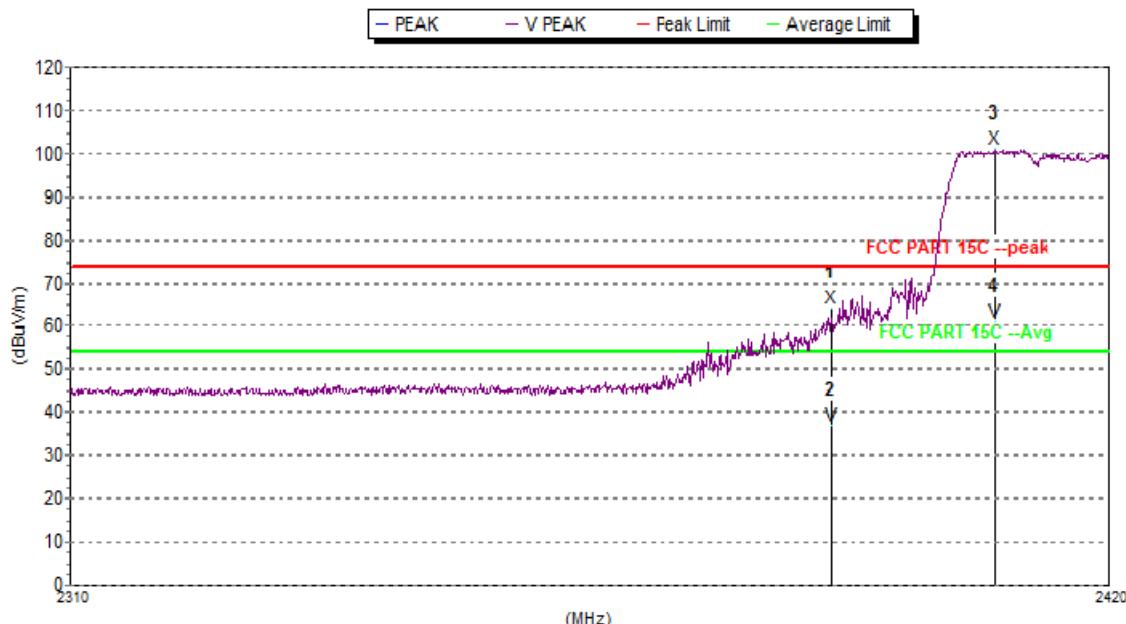


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2465.260	100.4	74.0	-26.4	32.5	0.0	-19.2	V
2	2483.500	56.8	74.0	17.2	32.5	0.0	-19.1	V
Avg								
1 F	2465.260	59.2	54.0	-5.2	32.5	0.0	-19.2	V
2	2483.500	36.5	54.0	17.5	32.5	0.0	-19.1	V

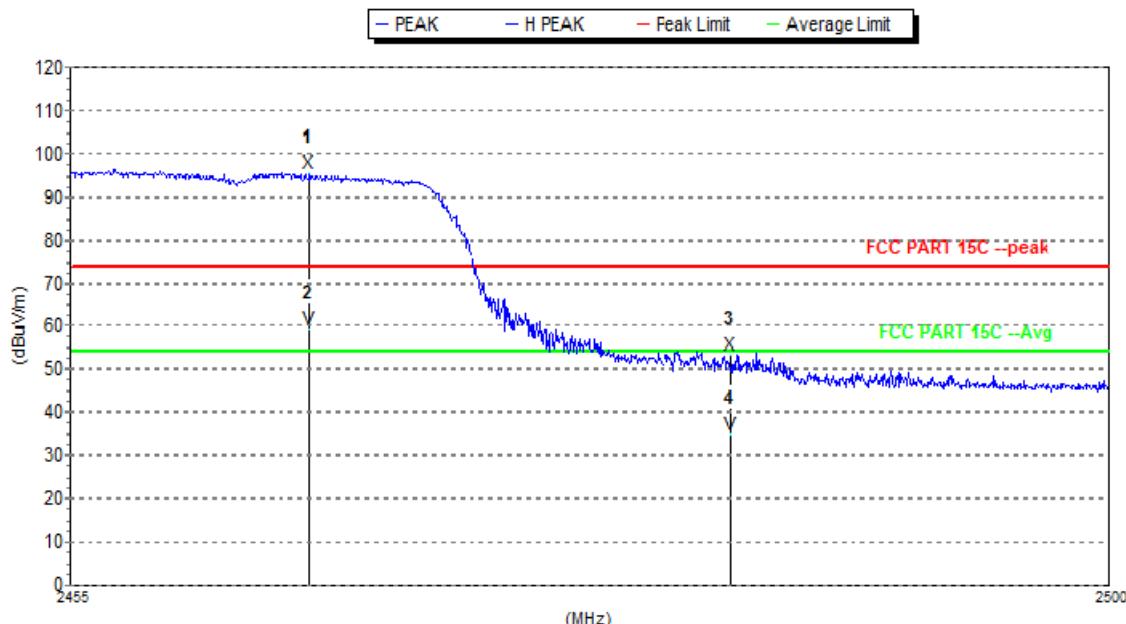
802.11n(HT20):



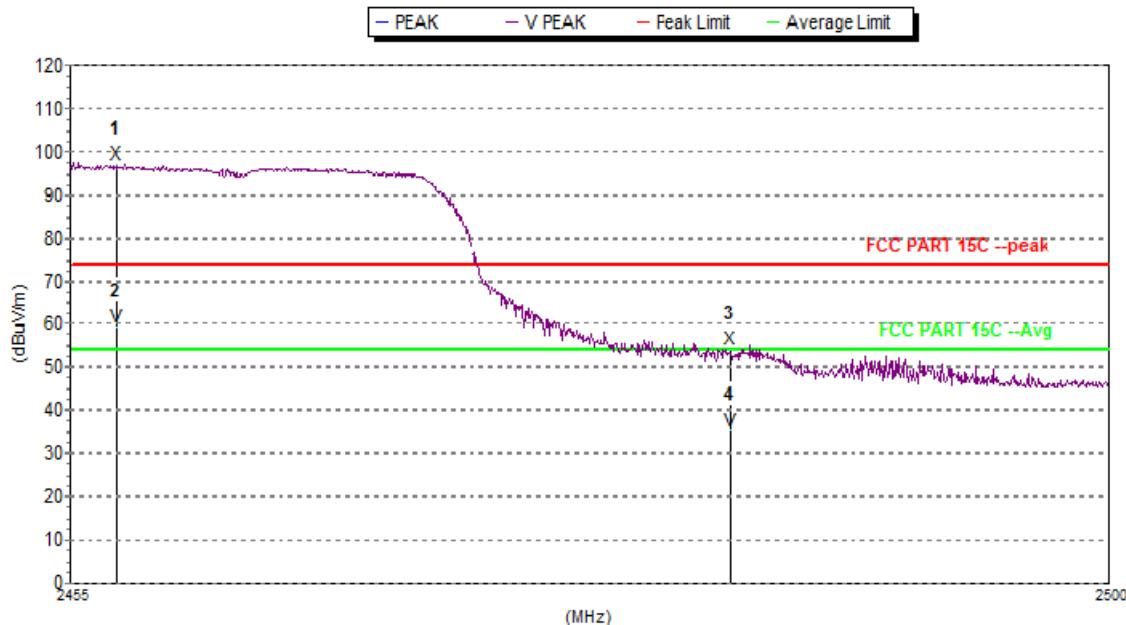
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390.000	59.5	74.0	14.5	32.5	0.0	-19.3	H
2 F	2406.470	99.2	74.0	-25.2	32.5	0.0	-19.3	H
Avg								
1	2390.000	36.3	54.0	17.7	32.5	0.0	-19.3	--
2 F	2406.470	60.4	54.0	-6.4	32.6	0.0	-19.3	H



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390.000	64.1	74.0	9.9	32.5	0.0	-19.3	V
2 F	2407.570	101.2	74.0	-27.2	32.5	0.0	-19.3	V
Avg								
1	2390.000	36.8	54.0	17.2	32.5	0.0	-19.3	--
2 F	2407.570	61.2	54.0	-7.2	32.6	0.0	-19.3	V



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2465.350	95.6	74.0	-21.6	32.5	0.0	-19.2	H
2	2483.500	53.5	74.0	20.5	32.5	0.0	-19.1	H
Avg								
1 F	2465.350	59.3	54.0	-5.3	32.5	0.0	-19.2	H
2	2483.500	35.1	54.0	18.9	32.5	0.0	-19.1	H



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2457.070	97.2	74.0	-23.2	32.5	0.0	-19.2	V
2	2483.500	54.2	74.0	19.8	32.5	0.0	-19.1	V
Avg								
1 F	2457.070	59.5	54.0	-5.5	32.5	0.0	-19.2	V
2	2483.500	35.2	54.0	18.8	32.5	0.0	-19.1	V

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

7 Photographs - EUT Test Setup

Test model No.: ASPW-010

7.1 Radiated Spurious Emission



7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1507003993CR.