



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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Report No.: SZEM150700440201
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FCC REPORT

Application No: SZEM1507004402CR(SGS GZ NO:GZEM1507003492CR)

Applicant: GuangZhou Ostec Electronic Technology Co.,Limited

Manufacturer: GuangZhou Ostec Electronic Technology Co.,Limited

Factory: GuangZhou Ostec Electronic Technology Co.,Limited

Product Name: WiFi module wifi3530

Model No.(EUT): WiFi module wifi3530

FCC ID: 2AFO3W3530N0

Standards: 47 CFR Part 15, Subpart C (2014)

Date of Receipt: 2015-07-21

Date of Test: 2015-07-28 to 2015-08-04

Date of Issue: 2015-08-20

Test Result:	PASS *
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* 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-08-20		Original

Authorized for issue by:			
			2015-08-04
Tested By		(Owen Zhou) /Project Engineer	Date
			2015-08-20
Prepared By		(Joyce Shi) /Clerk	Date
			2015-08-20
Checked By		(Eric Fu) /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:	GuangZhou Ostec Electronic Technology Co., Limited
Address of Applicant:	NO.8 West lane, JiangCheng Road, Bangjiang East Village, Shiji Town, Panyu District, Guangzhou, China.
Manufacturer:	GuangZhou Ostec Electronic Technology Co., Limited
Address of Manufacturer:	NO.8 West lane, JiangCheng Road, Bangjiang East Village, Shiji Town, Panyu District, Guangzhou, China.
Factory:	GuangZhou Ostec Electronic Technology Co., Limited
Address of Factory:	NO.8 West lane, JiangCheng Road, Bangjiang East Village, Shiji Town, Panyu District, Guangzhou, China.

5.2 General Description of EUT

Product Name:	WiFi module wifi3530
Model No.:	WiFi module wifi3530
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 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 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Sample Type:	Fixed production
Power Level:	16dBm (manufacturer declare)
Antenna Type:	Dedicated
Antenna Gain:	FPC antenna: 1.5dBi Rod antenna: 2.5dBi
Power Supply:	DC 3.3V, Powered by the test board indirectly
Test Voltage:	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		

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2422MHz	4	2437MHz	7	2452MHz		
2	2427MHz	5	2442MHz				
3	2432MHz	6	2447MHz				

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

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °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.
Adapter (Input: AC 100-240V 50-60Hz 0.5A Output: DC 6V 1A)	Supplied by client	W&T-AD18W060100
Test board	Supplied by client	014-TEST-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.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) 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)**

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

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.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2015-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2015-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2015-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13



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

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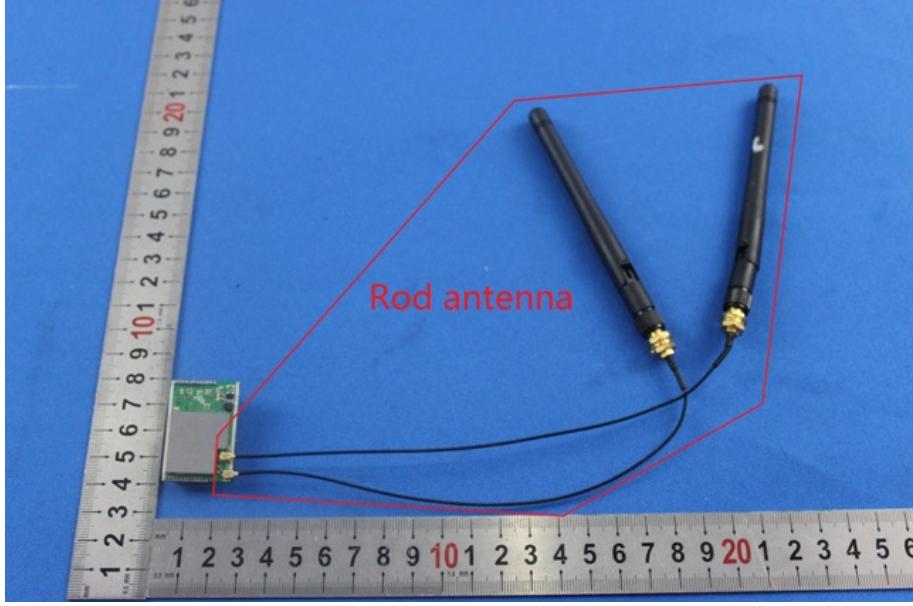
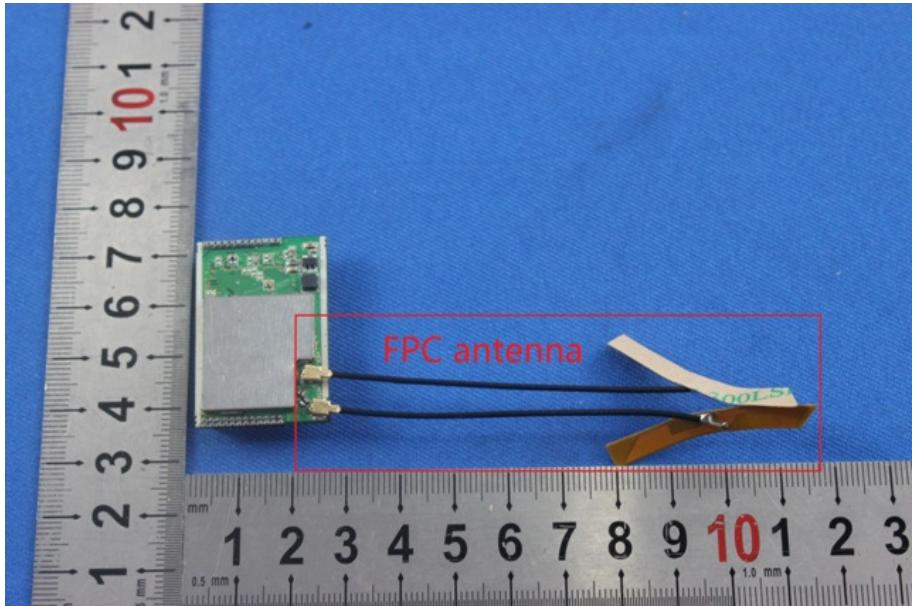
RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable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

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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:	<p>For Rod Antenna</p>  A photograph of a module with a green PCB and a black rod antenna. The antenna is labeled 'Rod antenna' with a red callout. A metal ruler is placed next to the module for scale.
	<p>For FPC Antenna</p>  A photograph of a module with a green PCB and a flexible FPC antenna. The antenna is labeled 'FPC antenna' with a red callout. A metal ruler is placed next to the module for scale.

The antenna is integrated on the main PCB of the module and no consideration of replacement. The best case gain of the Rod antenna is 2.5dBi, the best case gain of the FPC antenna is 1.5dBi.

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	Average		
	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.					

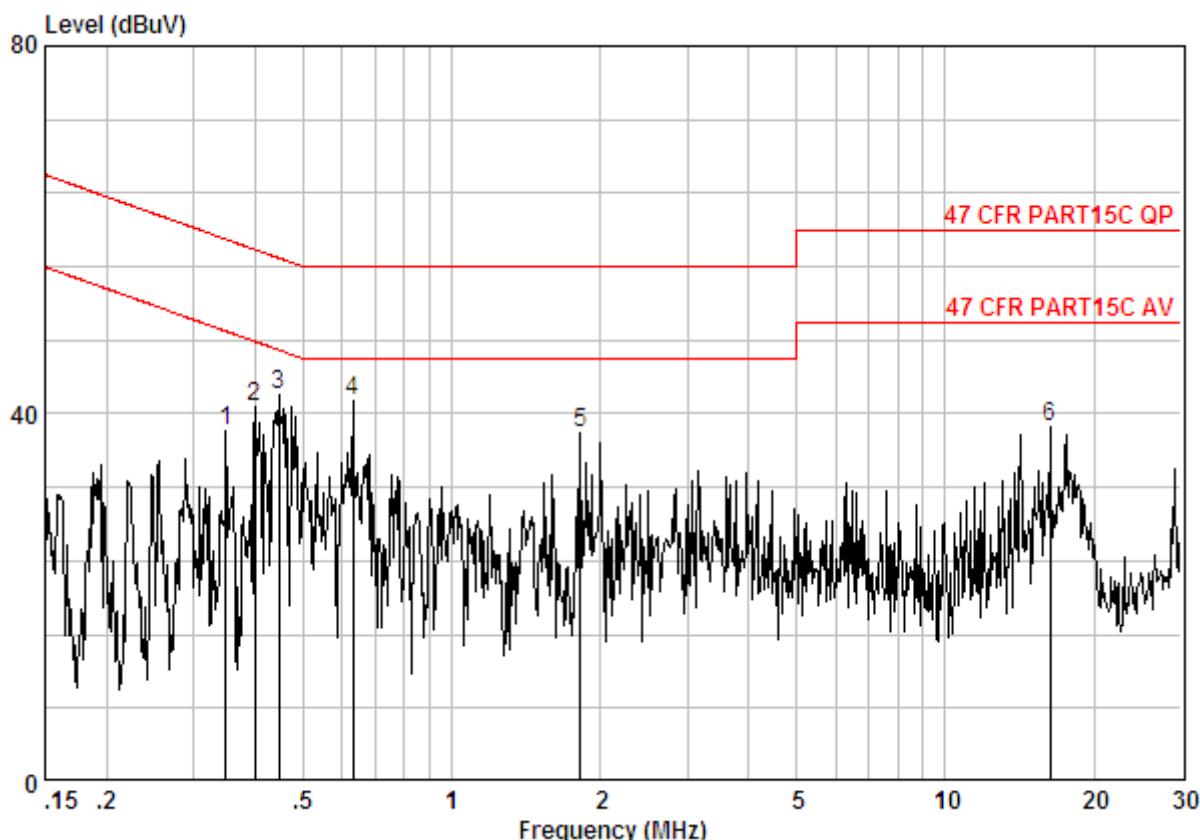
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Transmitting mode. Only the worst case is recorded in the report.
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.

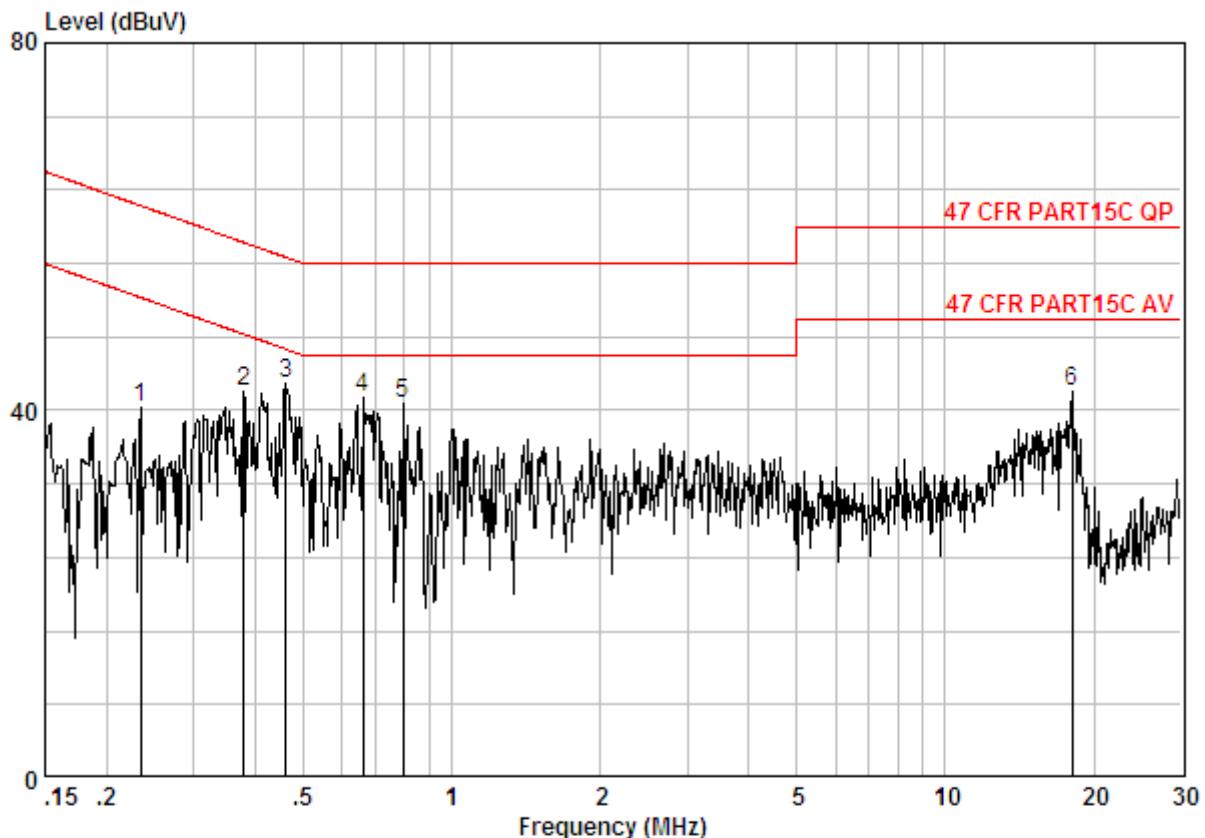
Live Line:



Site : Shielding Room
 Condition : 47 CFR PART15C AV CE LINE
 Job No. : 4402CR
 Test Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.34830	0.01	9.85	28.24	38.09	49.00	-10.91 Peak
2	0.39974	0.01	9.85	30.85	40.71	47.86	-7.14 Peak
3	0.44679	0.01	9.86	32.28	42.15	46.93	-4.79 Peak
4	0.63048	0.02	9.87	31.50	41.39	46.00	-4.61 Peak
5	1.819	0.02	9.94	27.90	37.86	46.00	-8.14 Peak
6	16.312	0.02	10.20	28.33	38.55	50.00	-11.45 Peak

Neutral Line:



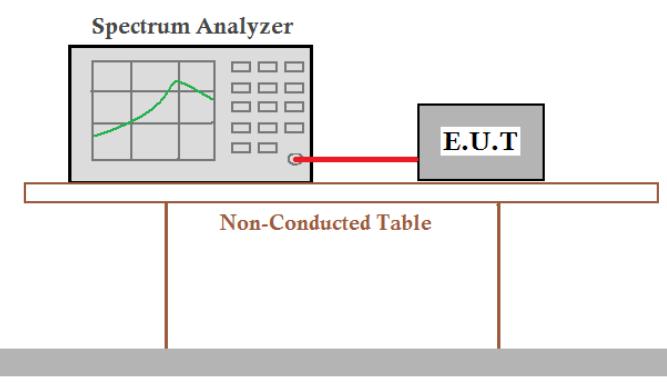
Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 4402CR
Test Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.23409	0.02	9.86	30.49	40.36	52.30	-11.95 Peak
2	0.37912	0.01	9.87	32.16	42.05	48.30	-6.25 Peak
3	0.46122	0.01	9.88	33.02	42.90	46.67	-3.77 Peak
4	0.66127	0.02	9.95	31.53	41.50	46.00	-4.50 Peak
5	0.79600	0.02	9.98	30.84	40.84	46.00	-5.16 Peak
6	18.039	0.02	10.32	31.67	42.01	50.00	-7.99 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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	30dBm
Test Results:	Pass





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Pre-scan under all rate at the highest channel of antenna1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	16.11	15.96	15.92	15.73				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	19.98	19.88	19.72	19.67	19.55	19.50	19.42	19.28
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	20.14	20.01	19.89	19.66	19.65	19.55	19.43	19.23
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	19.90	19.78	19.66	19.57	19.46	19.34	19.21	19.03
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); 13.5Mbps of rate is the worst case of 802.11n(HT40).								



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Measurement Data

802.11b mode				
Test channel	Peak Output Power (dBm)		Limit (dBm)	Result
	Antenna 1	Antenna 2		
Lowest	15.72	12.69	30.00	Pass
Middle	15.90	11.86	30.00	Pass
Highest	16.11	11.06	30.00	Pass

802.11g mode				
Test channel	Peak Output Power (dBm)		Limit (dBm)	Result
	Antenna 1	Antenna 2		
Lowest	19.59	16.45	30.00	Pass
Middle	19.74	15.70	30.00	Pass
Highest	19.98	14.94	30.00	Pass

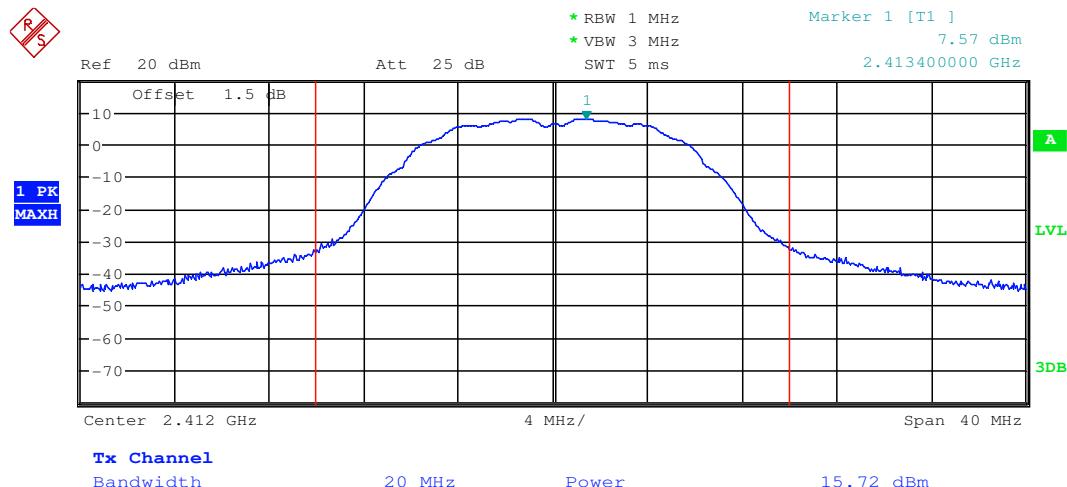
802.11n(HT20)mode					Result	
Test channel	Peak Output Power (dBm)			Limit (dBm)		
	Antenna 1	Antenna 2	Total			
Lowest	19.72	16.96	21.57	30.00	Pass	
Middle	20.04	16.06	21.50	30.00	Pass	
Highest	20.14	15.20	21.35	30.00	Pass	

802.11n(HT40)mode					Result	
Test channel	Peak Output Power (dBm)			Limit (dBm)		
	Antenna 1	Antenna 2	Total			
Lowest	19.55	16.12	21.18	30.00	Pass	
Middle	19.68	15.78	21.16	30.00	Pass	
Highest	19.90	15.33	21.20	30.00	Pass	

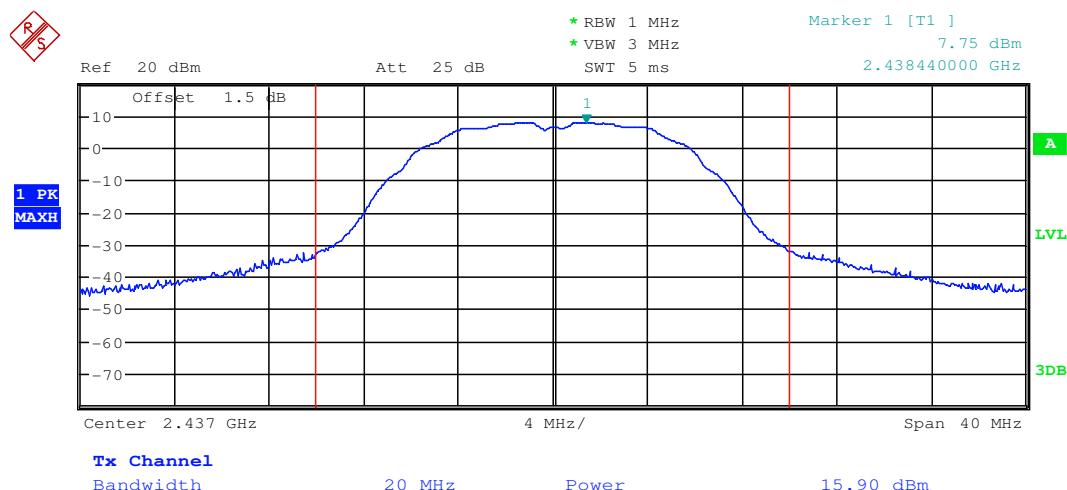
*This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

Test plot as follows:
Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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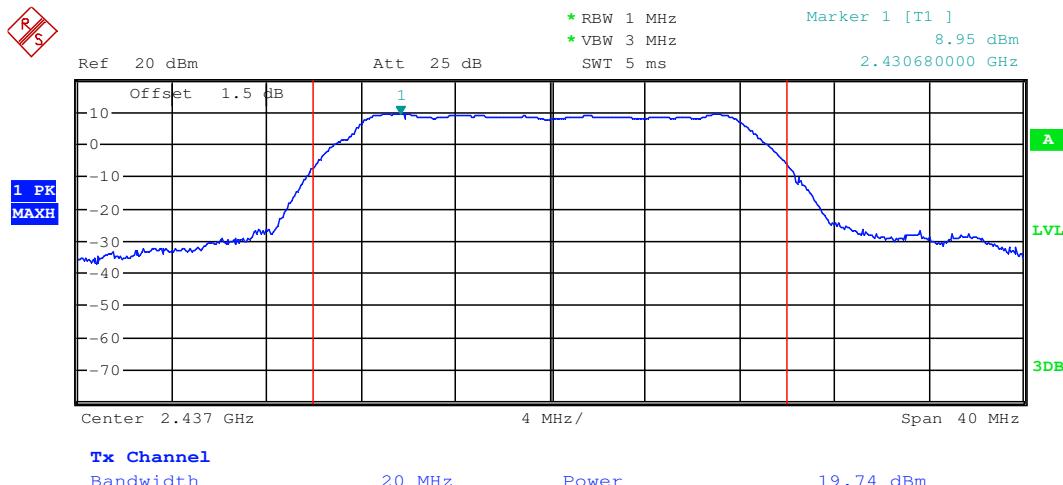
Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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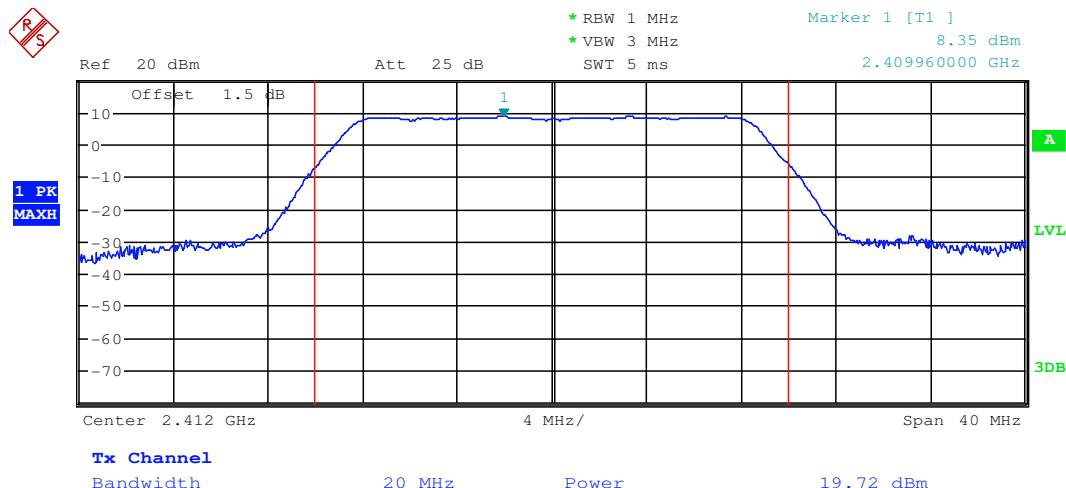
Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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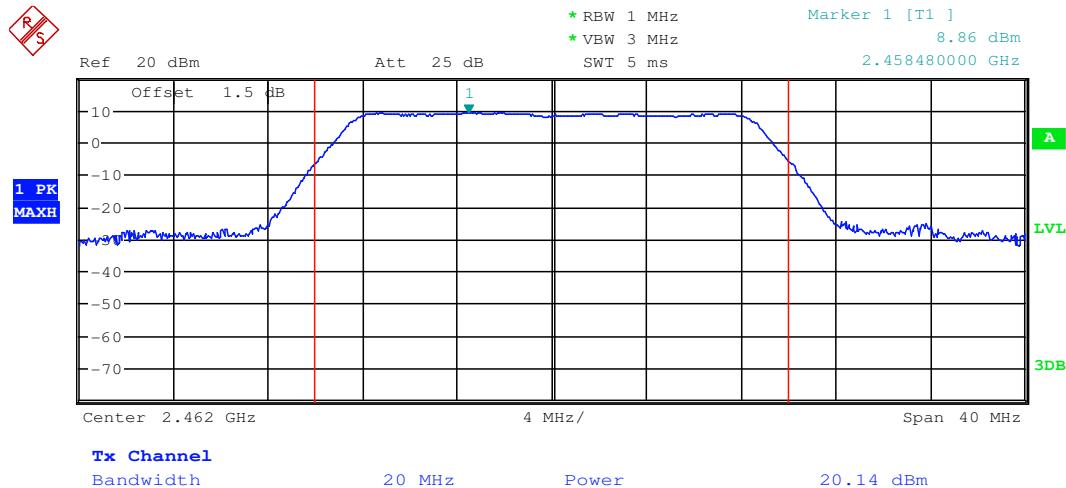
Test mode:	802.11n(HT20)	Test channel:	Lowest
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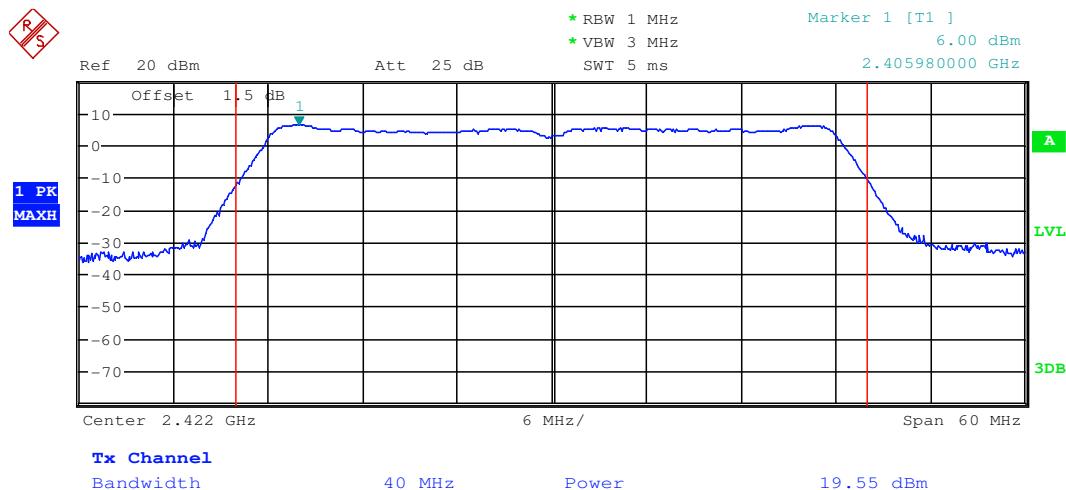
Test mode:	802.11n(HT20)	Test channel:	Middle
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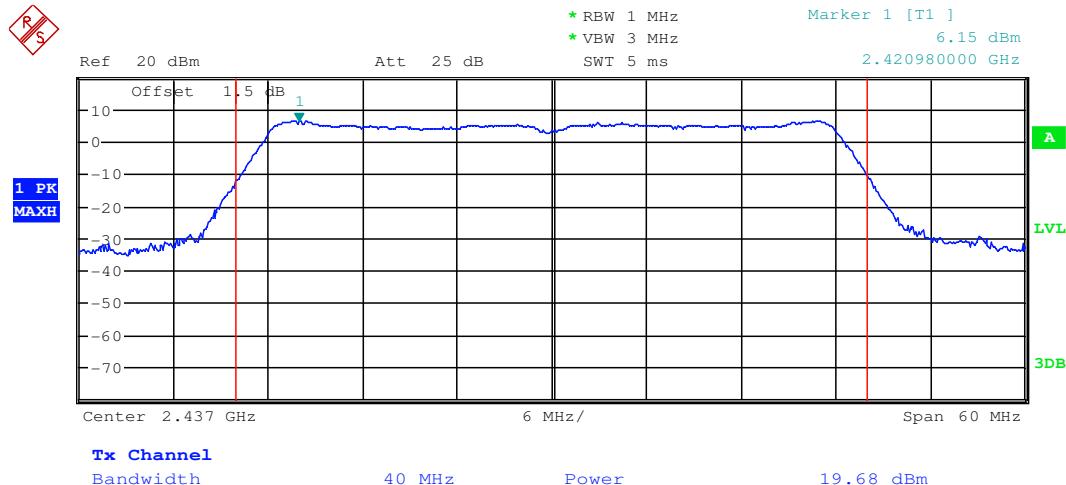
Test mode:	802.11n(HT20)	Test channel:	Highest
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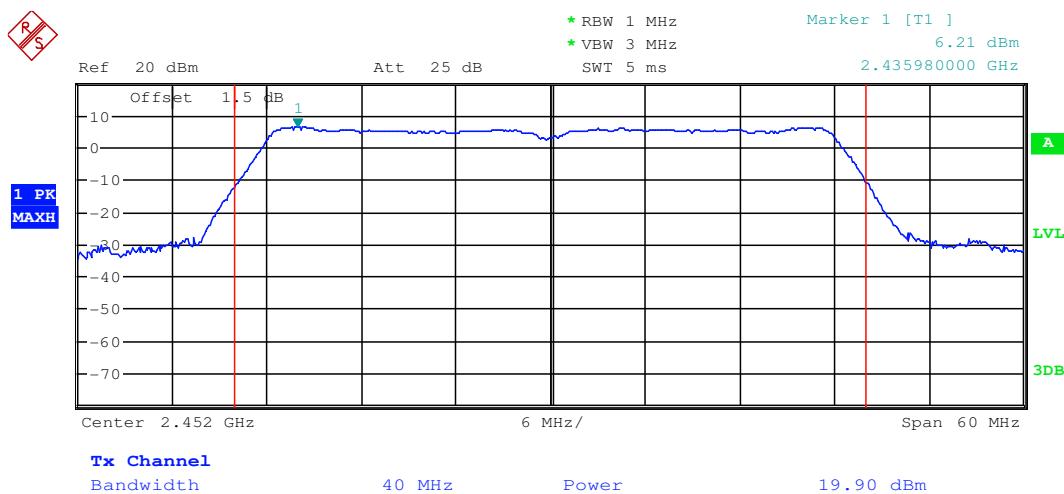
Test mode:	802.11n(HT40)	Test channel:	Lowest
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Test mode:	802.11n(HT40)	Test channel:	Middle
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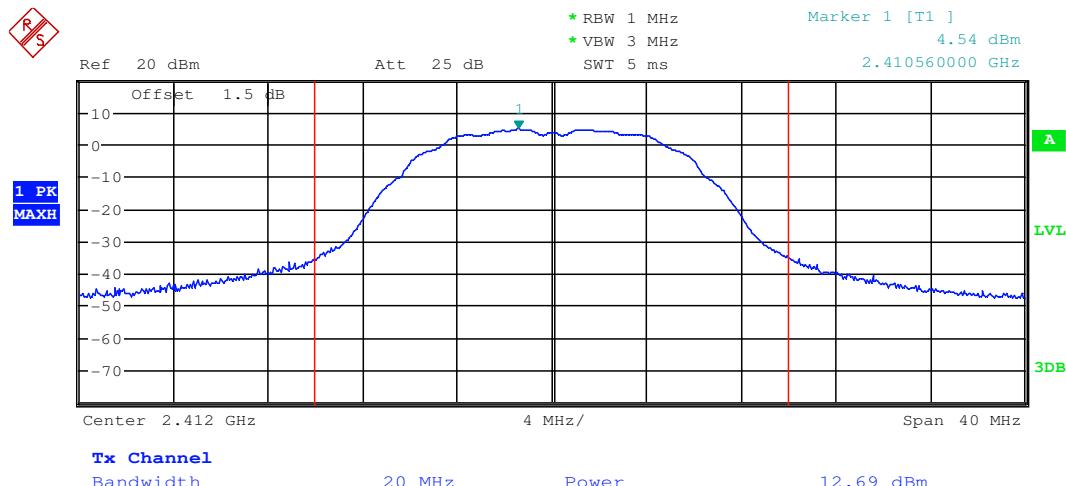


Test mode:	802.11n(HT40)	Test channel:	Highest
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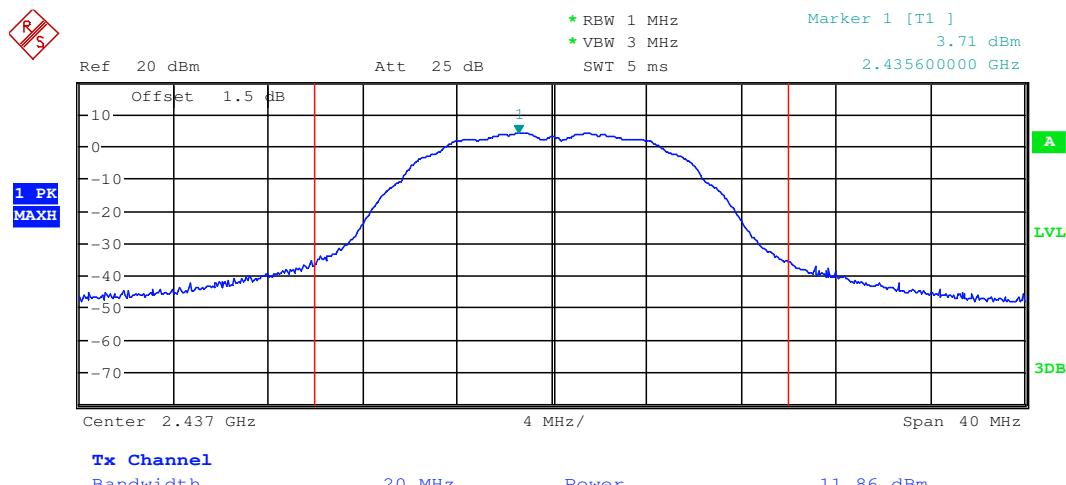


Antenna 2

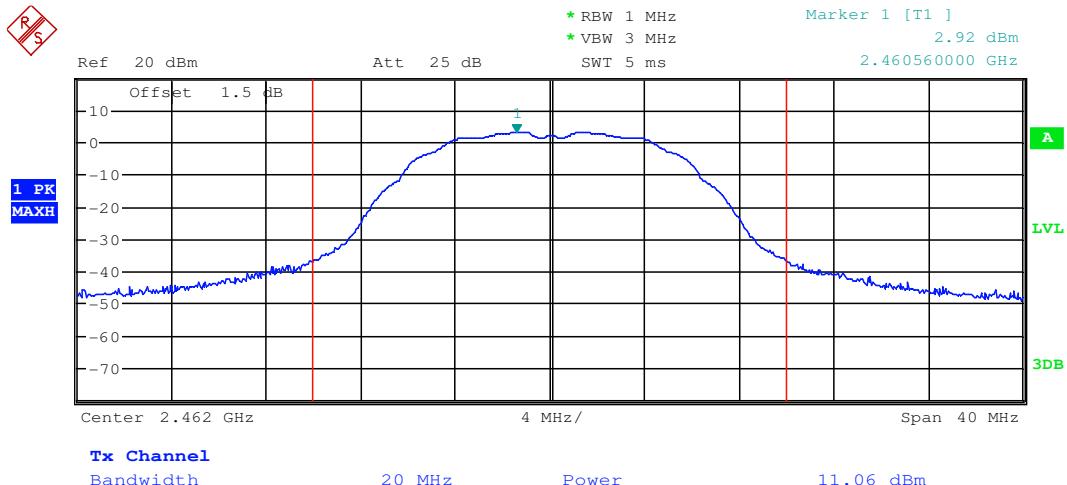
Test mode:	802.11b	Test channel:	Lowest
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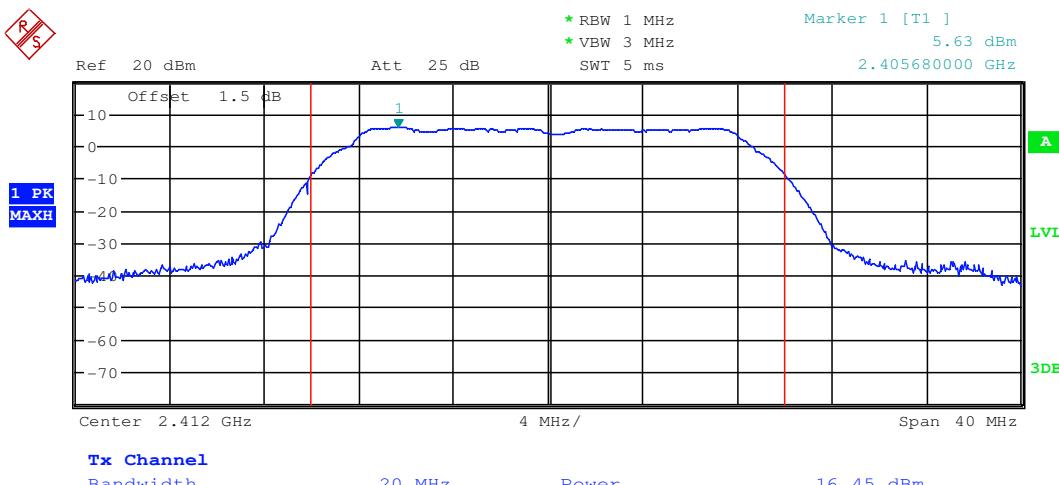
Test mode:	802.11b	Test channel:	Middle
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Test mode:	802.11b	Test channel:	Highest
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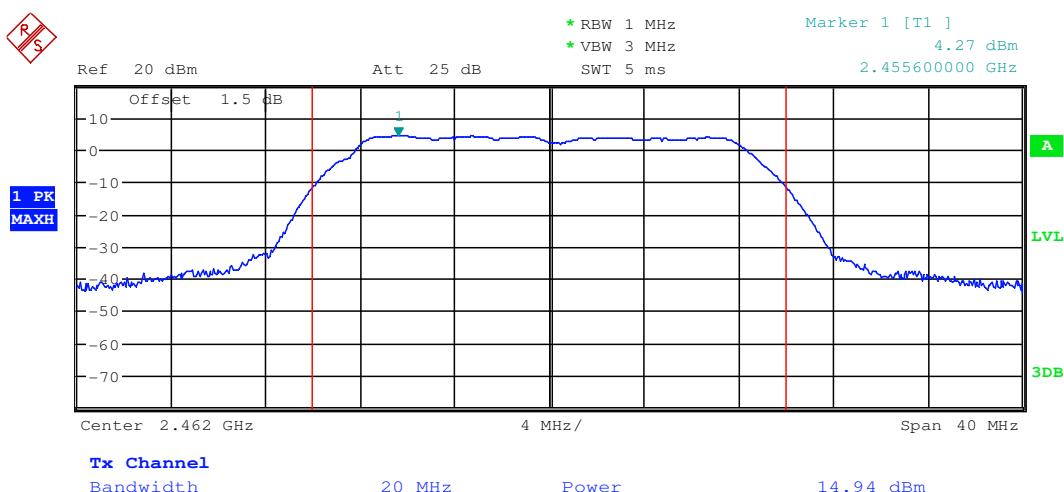
Test mode:	802.11g	Test channel:	Lowest
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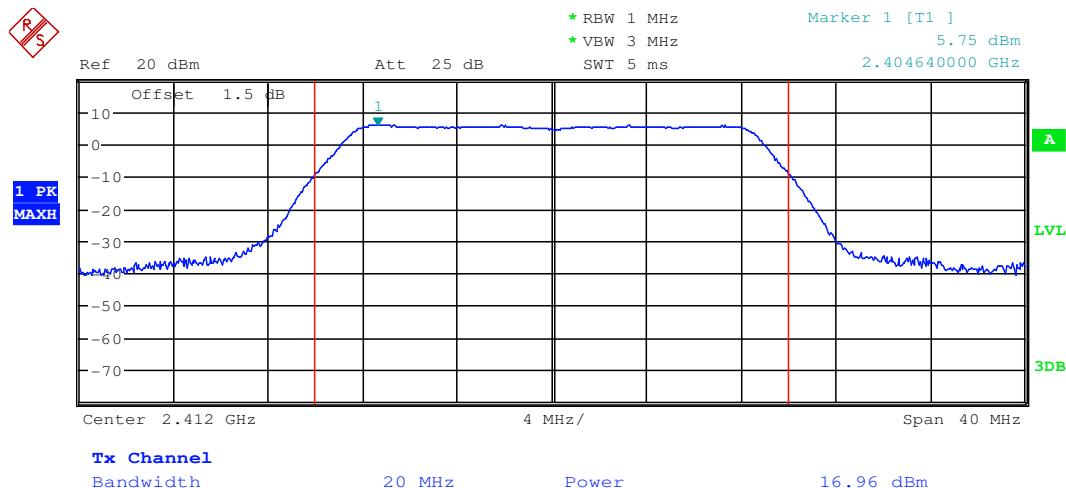
Test mode:	802.11g	Test channel:	Middle
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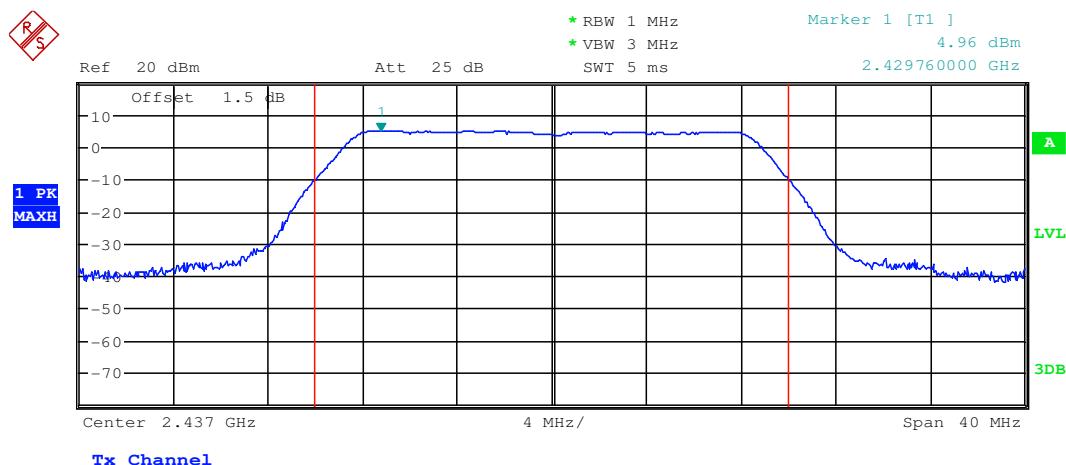
Test mode:	802.11g	Test channel:	Highest
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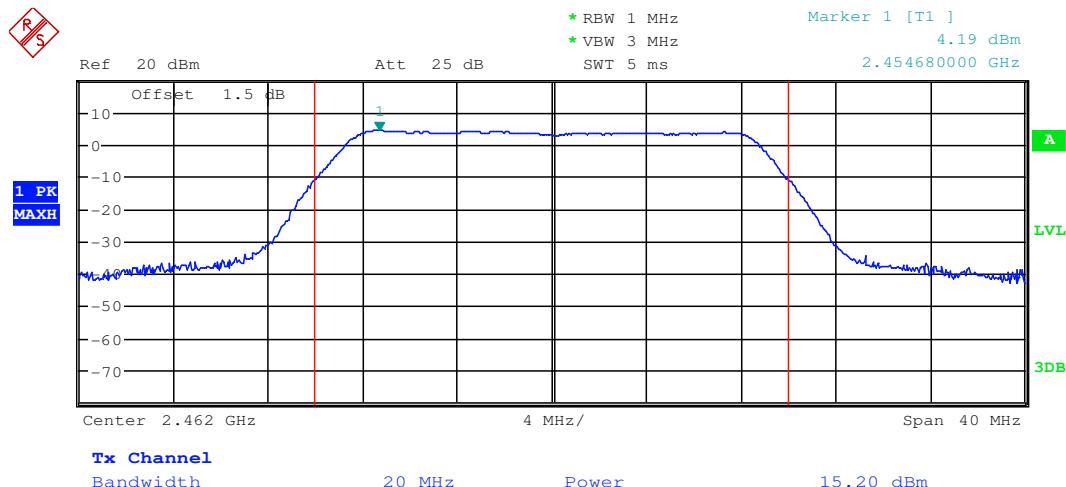
Test mode:	802.11n(HT20)	Test channel:	Lowest
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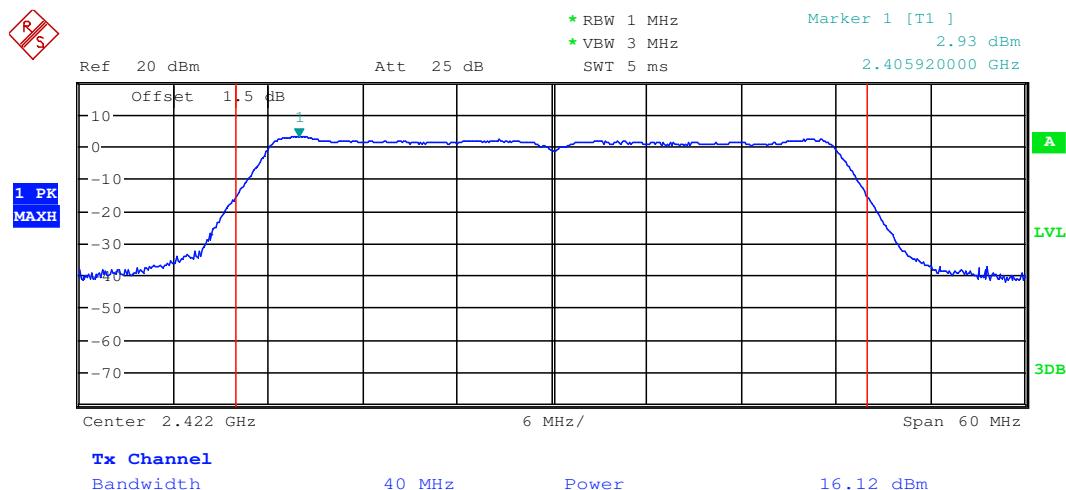
Test mode:	802.11n(HT20)	Test channel:	Middle
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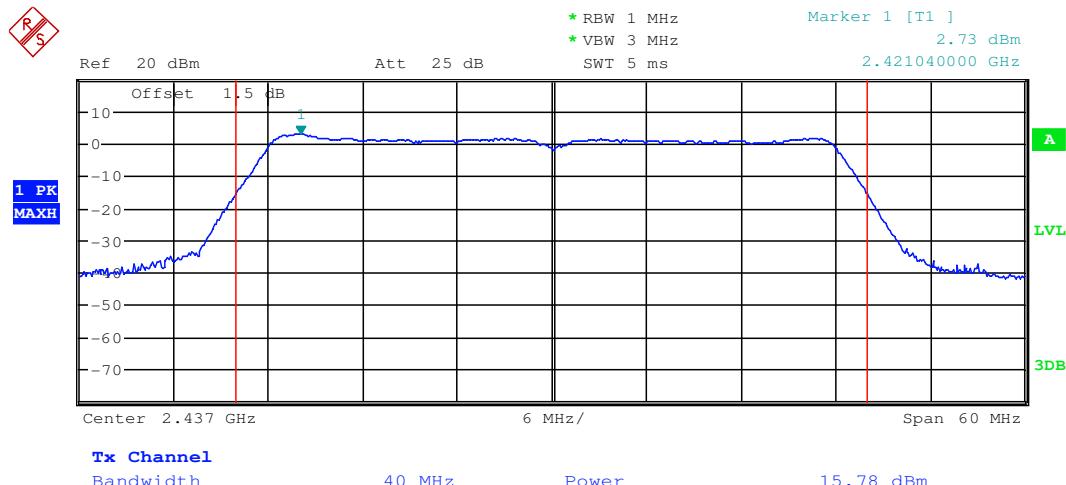
Test mode:	802.11n(HT20)	Test channel:	Highest
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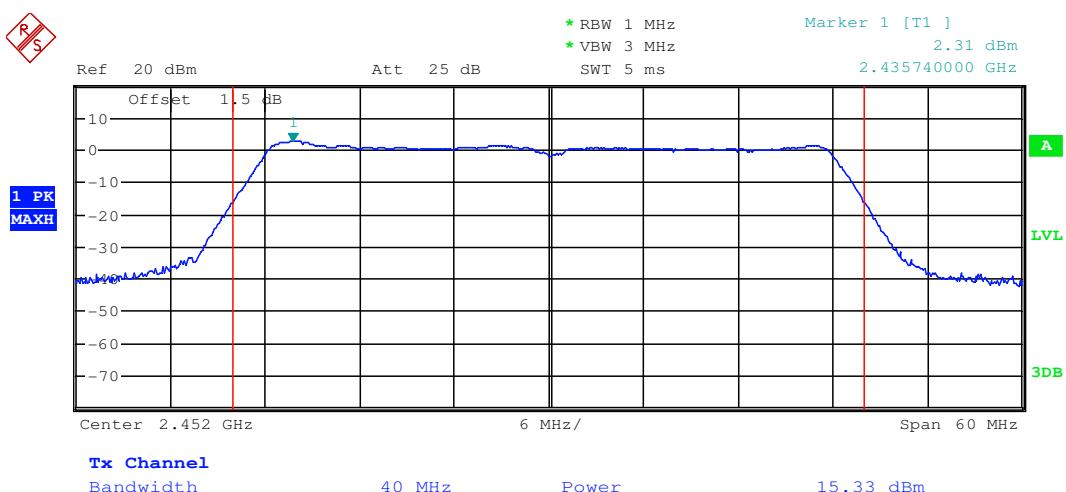
Test mode:	802.11n(HT40)	Test channel:	Lowest
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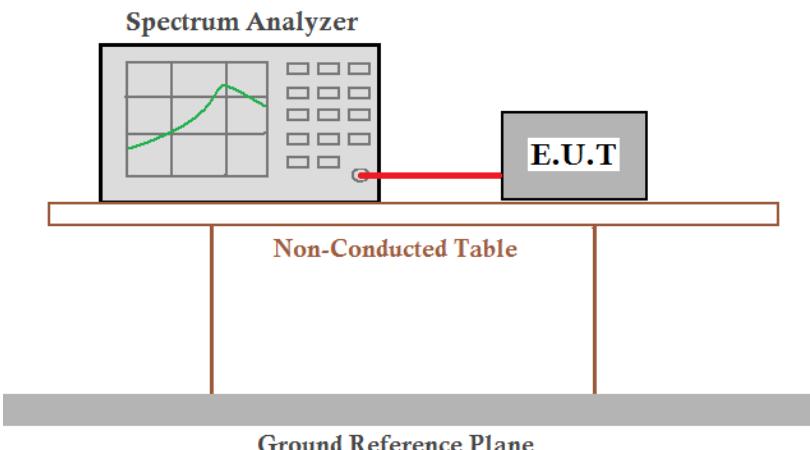
Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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6.4 6dB Occupy Bandwidth

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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	≥ 500 kHz
Test Results:	Pass



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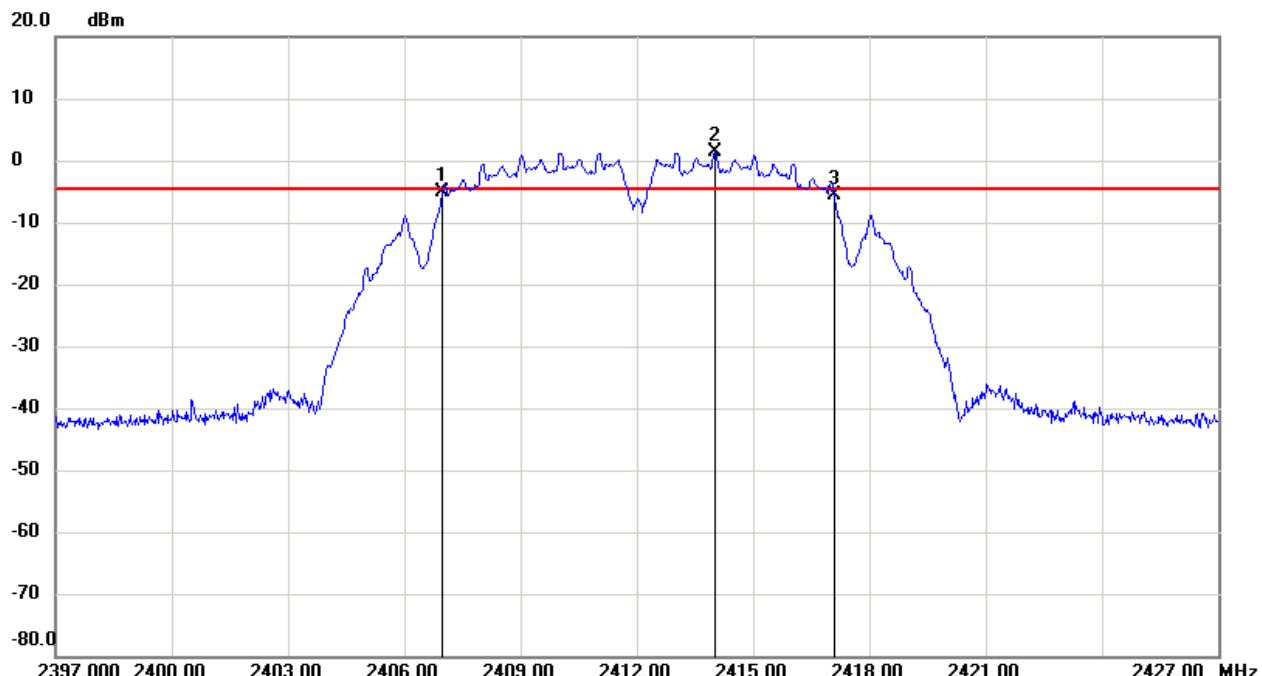
Measurement Data

802.11b mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	10.14	10.14	≥500	Pass
Middle	10.14	10.14	≥500	Pass
Highest	10.14	10.14	≥500	Pass
802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	16.65	16.65	≥500	Pass
Middle	16.65	16.65	≥500	Pass
Highest	16.65	16.65	≥500	Pass
802.11n(HT20) mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	17.76	17.85	≥500	Pass
Middle	17.76	17.76	≥500	Pass
Highest	17.76	17.76	≥500	Pass
802.11n(HT40)mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	36.66	36.66	≥500	Pass
Middle	36.60	36.60	≥500	Pass
Highest	36.66	36.54	≥500	Pass

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Test plot as follows:**Antenna 1**

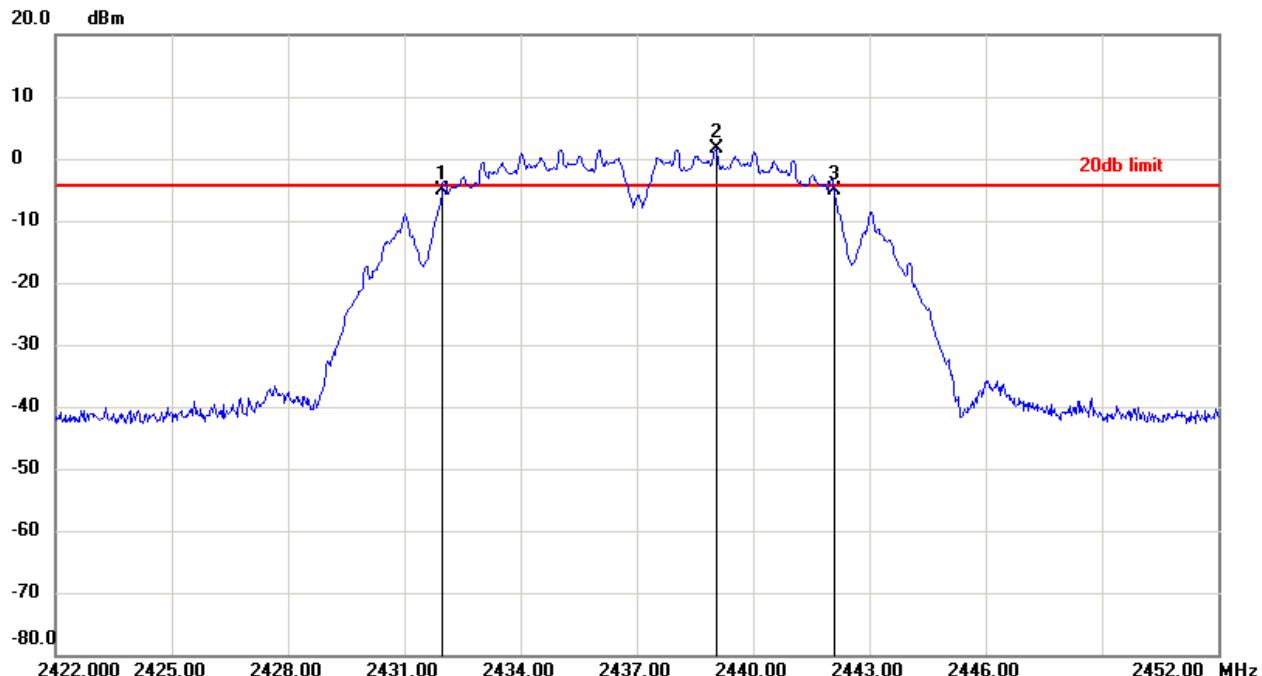
Test mode:	802.11b	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.9600	-5.19	-4.68	-0.51
2	2414.0100	1.32	-4.68	6.00
3	2417.1000	-5.51	-4.68	-0.83

No.		› Frequency(MHz)	› Level(dB)
1	mk3-mk1	10.14	-0.32

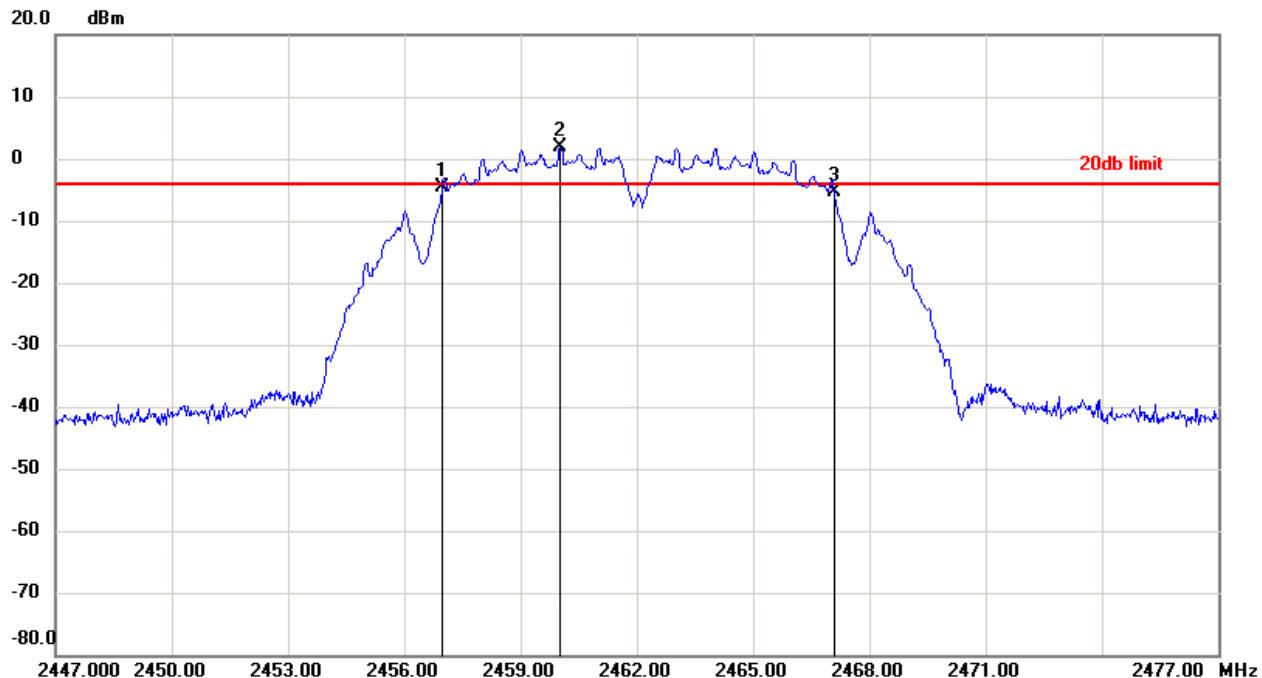
Test mode:	802.11b	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.9600	-5.19	-4.46	-0.73
2	2439.0400	1.54	-4.46	6.00
3	2442.1000	-5.02	-4.46	-0.56

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	10.14	0.17

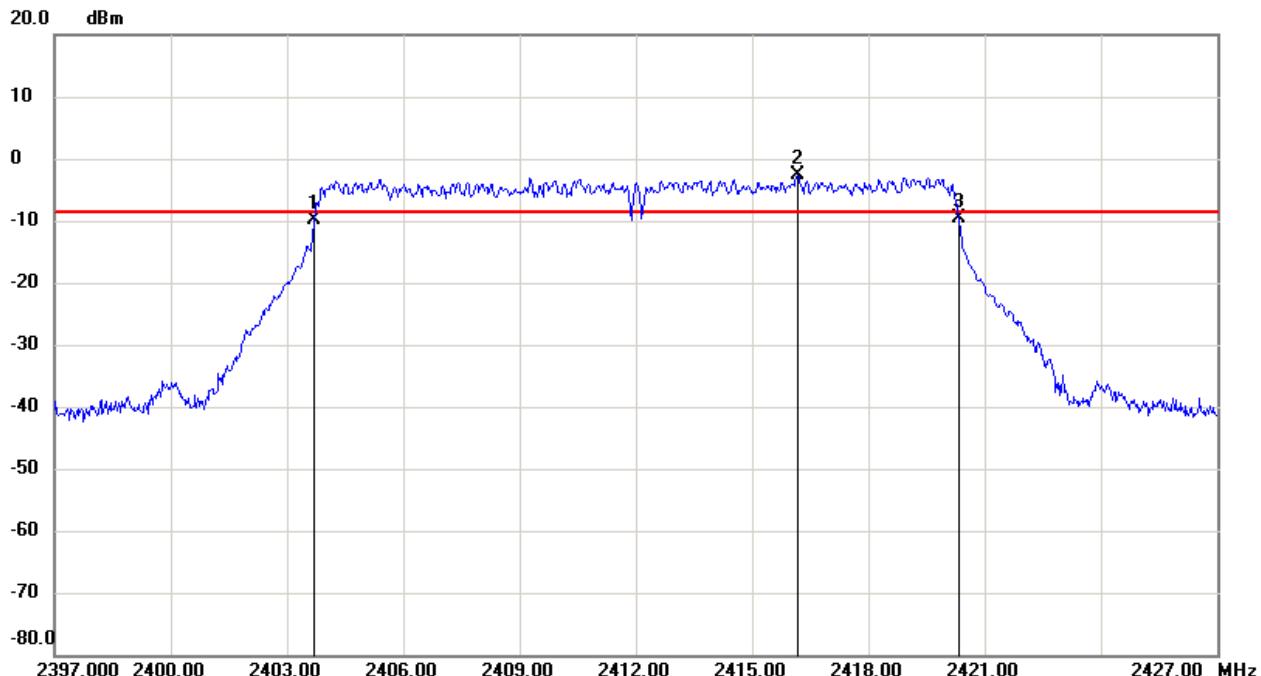
Test mode:	802.11b	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2456.9600	-4.73	-4.24	-0.49
2	2460.0200	1.76	-4.24	6.00
3	2467.1000	-5.42	-4.24	-1.18

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	10.14	-0.69

Test mode:	802.11g	Test channel:	Lowest
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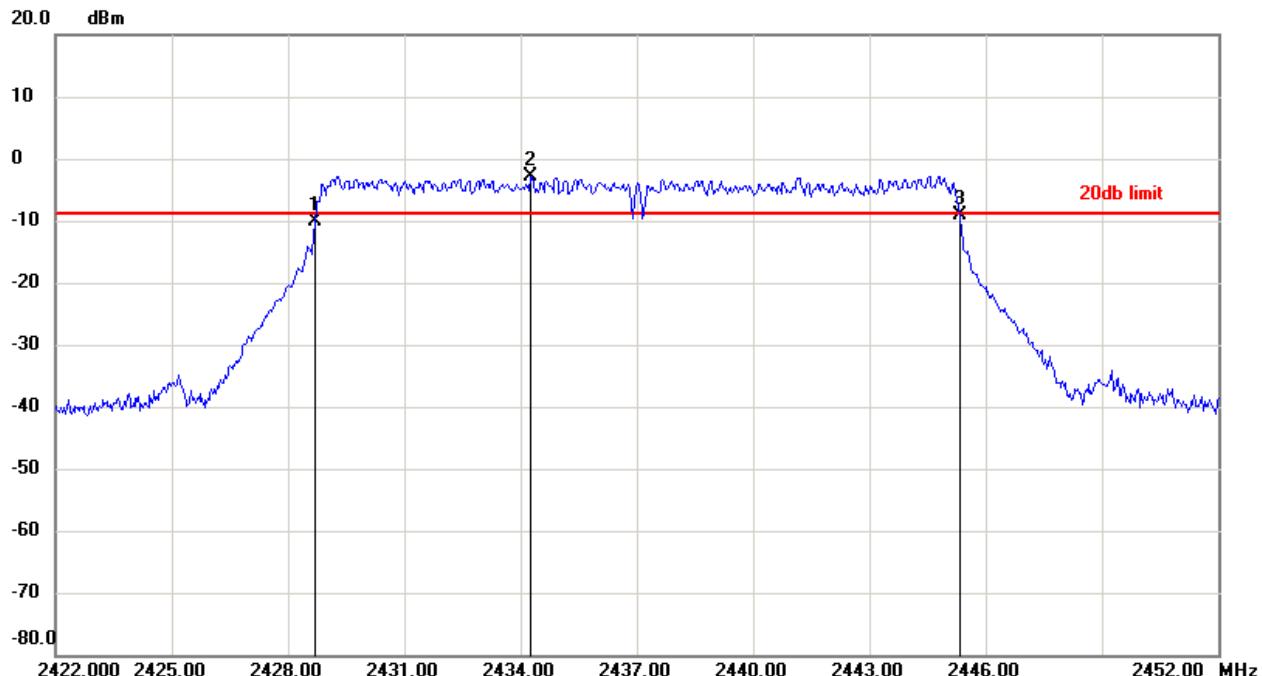


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.6900	-9.96	-8.71	-1.25
2	2416.1700	-2.71	-8.71	6.00
3	2420.3400	-9.58	-8.71	-0.87

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65	0.38



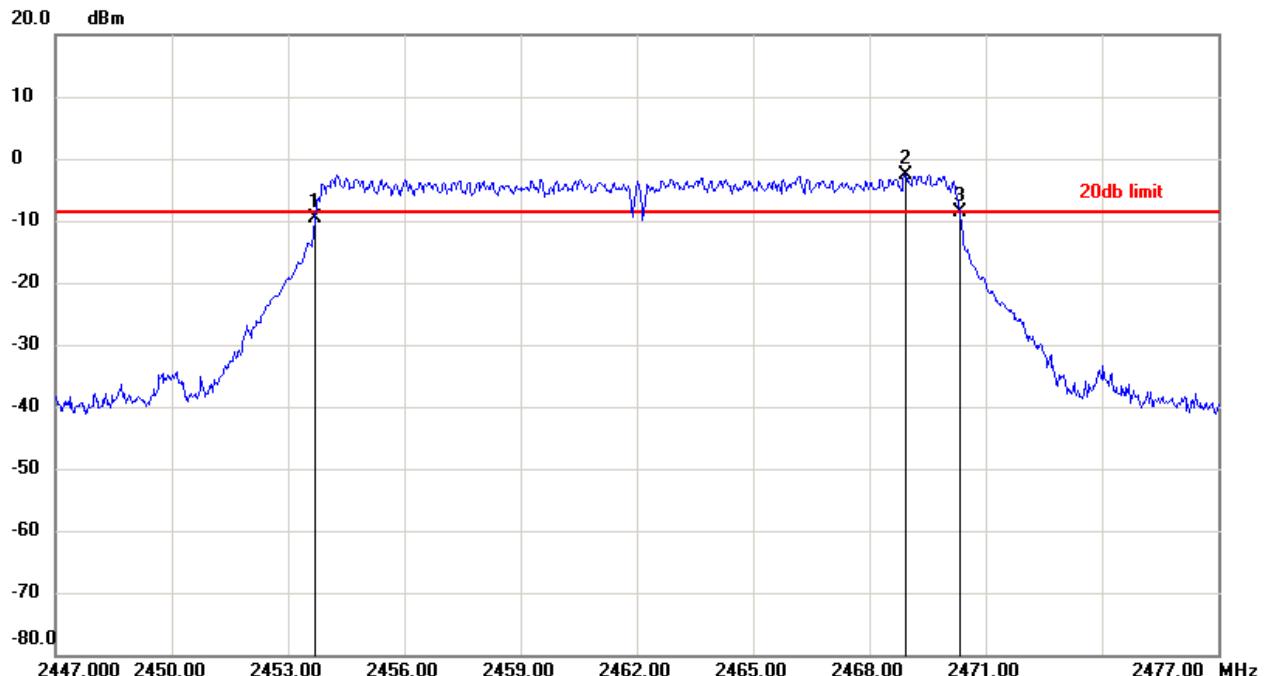
Test mode:	802.11g	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.6900	-10.15	-8.79	-1.36
2	2434.2700	-2.79	-8.79	6.00
3	2445.3400	-9.02	-8.79	-0.23

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65	1.13

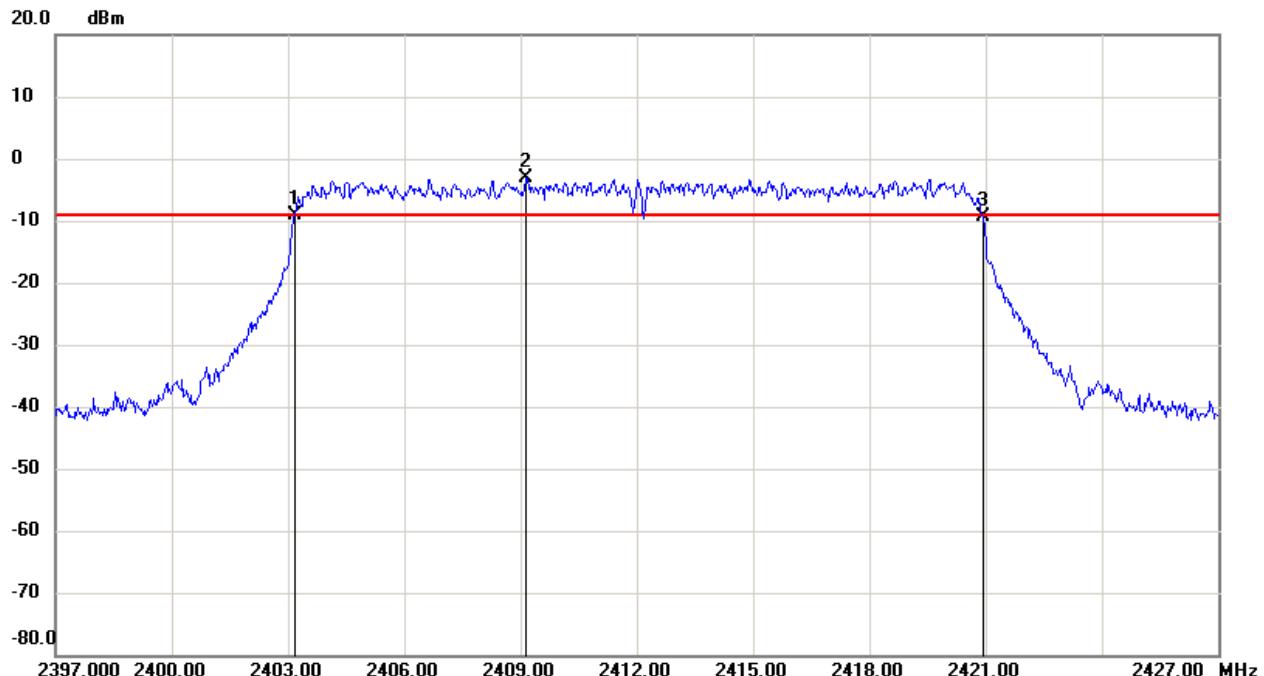
Test mode:	802.11g	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.6900	-9.53	-8.55	-0.98
2	2468.9300	-2.55	-8.55	6.00
3	2470.3400	-8.70	-8.55	-0.15

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65	0.83

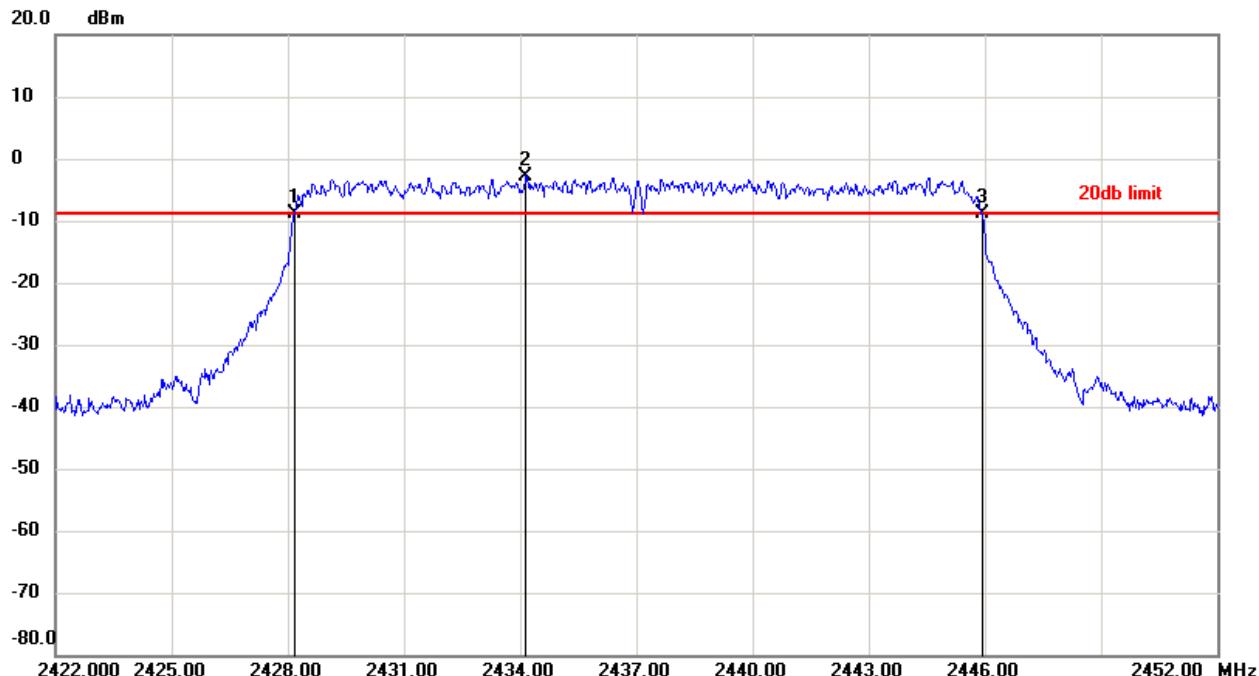
Test mode:	802.11n(HT20)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.1800	-9.13	-9.10	-0.03
2	2409.1500	-3.10	-9.10	6.00
3	2420.9400	-9.29	-9.10	-0.19

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	17.76

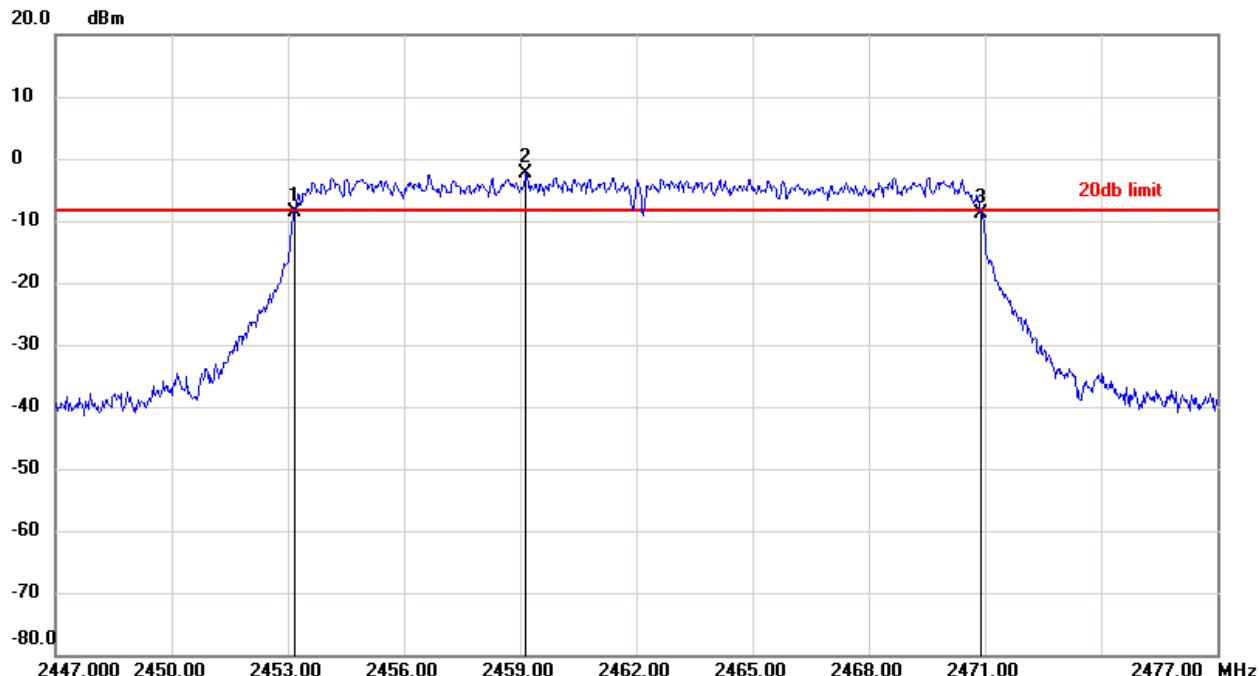
Test mode:	802.11n(HT20)	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.1800	-8.90	-8.75	-0.15
2	2434.1500	-2.75	-8.75	6.00
3	2445.9400	-8.93	-8.75	-0.18

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.76	-0.03

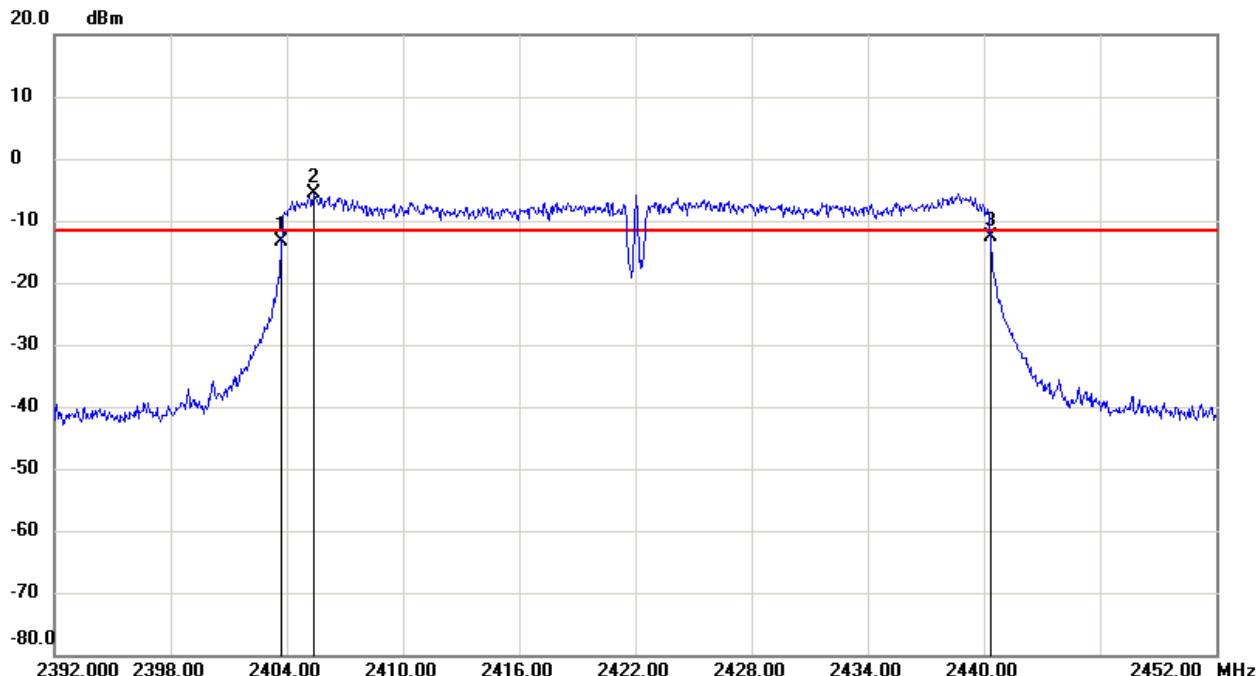
Test mode:	802.11n(HT20)	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.1800	-8.54	-8.33	-0.21
2	2459.1500	-2.33	-8.33	6.00
3	2470.8800	-8.84	-8.33	-0.51

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.7	-0.3

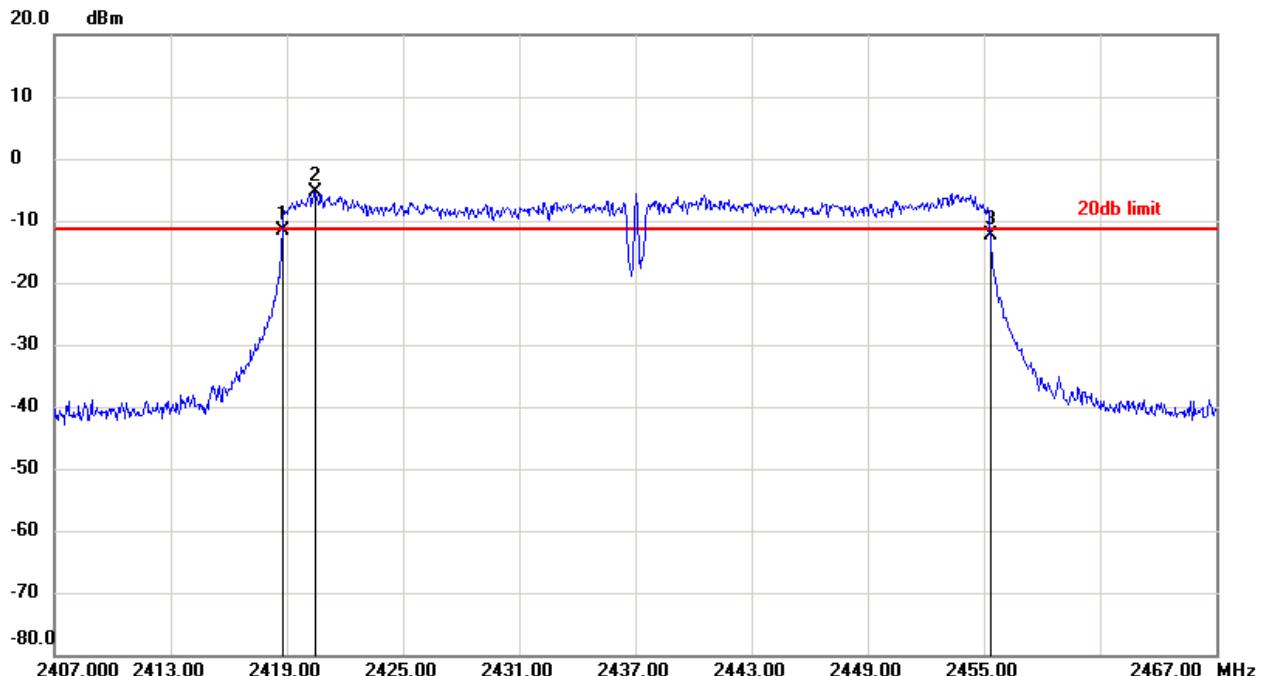
Test mode:	802.11n(HT40)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.7000	-13.43	-11.64	-1.79
2	2405.3800	-5.64	-11.64	6.00
3	2440.3600	-12.53	-11.64	-0.89

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.66	0.9

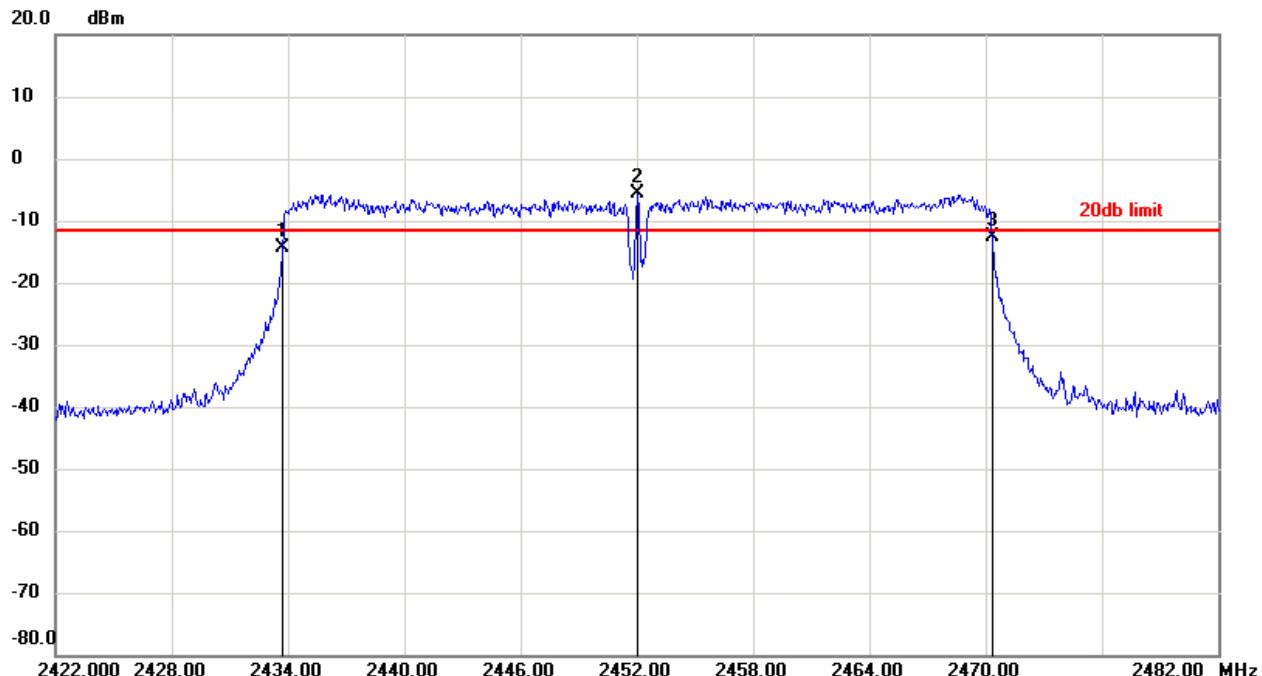
Test mode:	802.11n(HT40)	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2418.7600	-11.51	-11.37	-0.14
2	2420.4400	-5.37	-11.37	6.00
3	2455.3600	-12.33	-11.37	-0.96

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.6	-0.82

Test mode:	802.11n(HT40)	Test channel:	Highest
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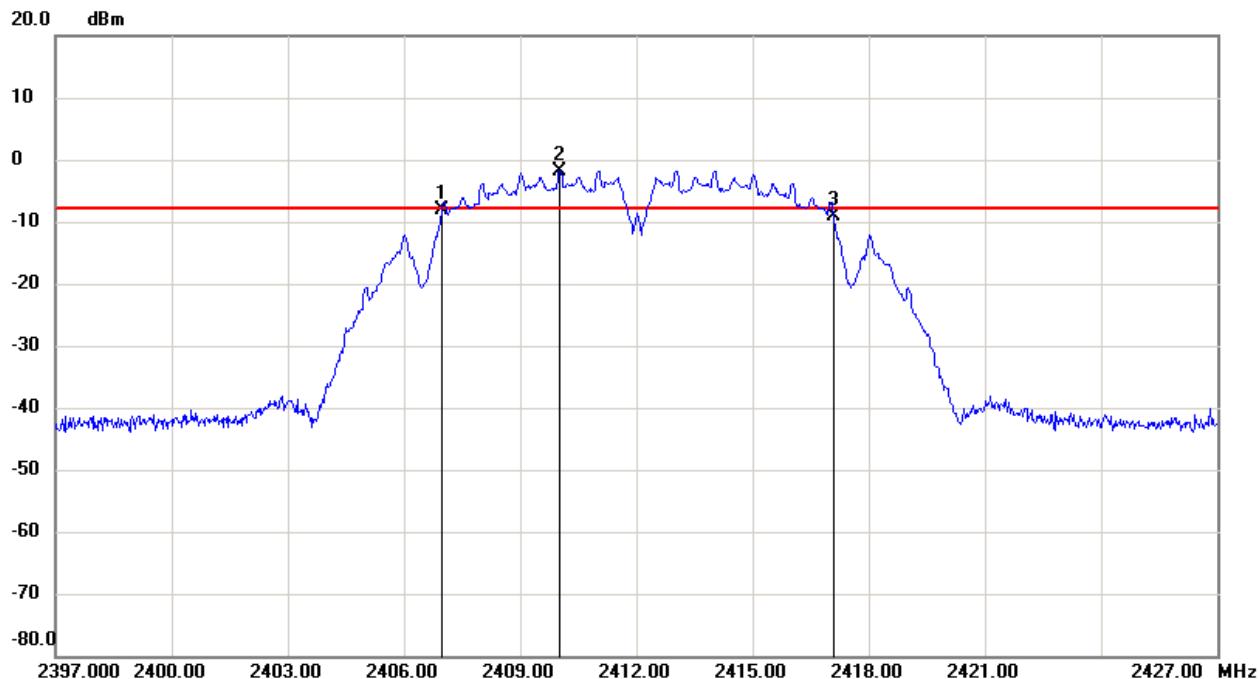


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2433.7000	-14.39	-11.71	-2.68
2	2452.0000	-5.71	-11.71	6.00
3	2470.3600	-12.60	-11.71	-0.89

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.66	1.79

Antenna 2

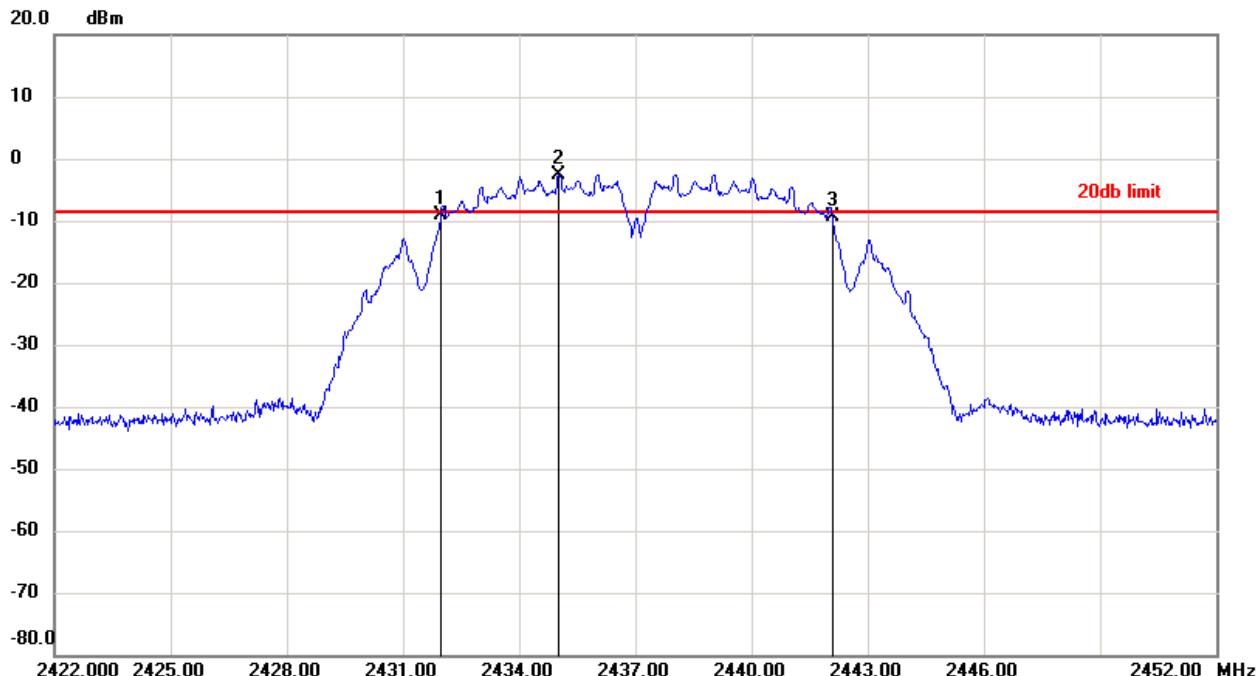
Test mode:	802.11b	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.9600	-8.12	-7.77	-0.35
2	2410.0200	-1.77	-7.77	6.00
3	2417.1000	-9.15	-7.77	-1.38

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	10.14

Test mode:	802.11b	Test channel:	Middle
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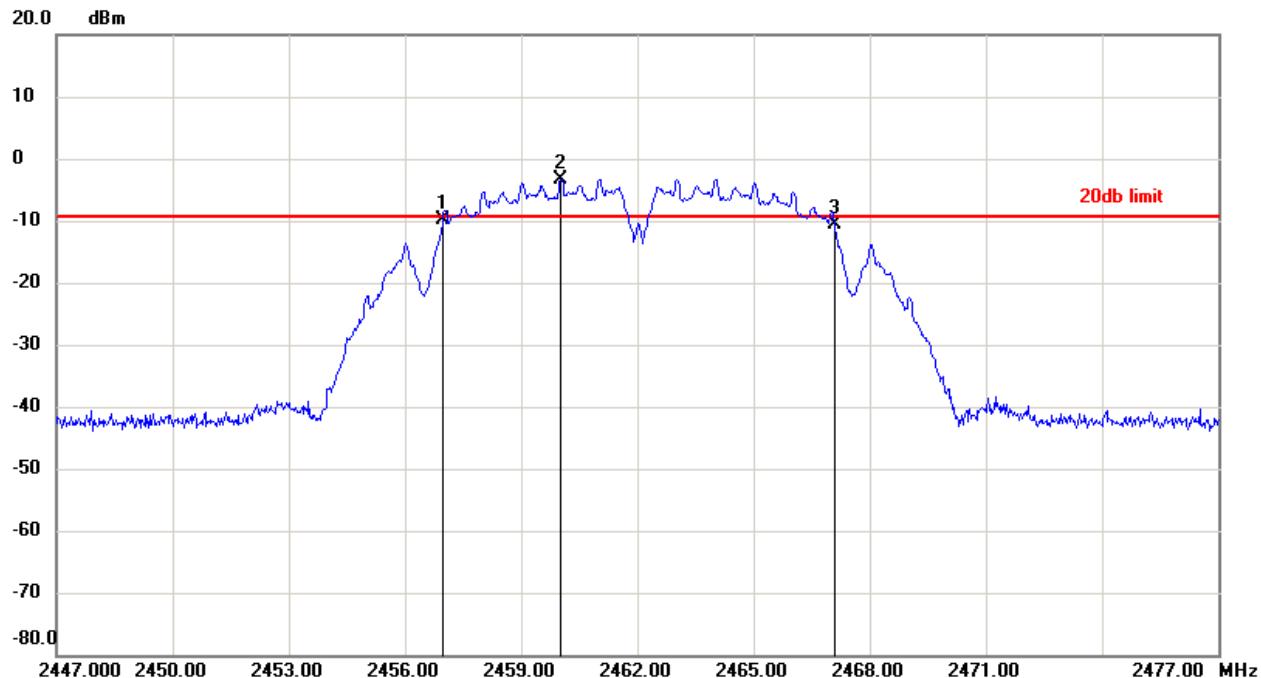


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.9600	-9.04	-8.54	-0.50
2	2435.0200	-2.54	-8.54	6.00
3	2442.1000	-9.46	-8.54	-0.92

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	10.14	-0.42



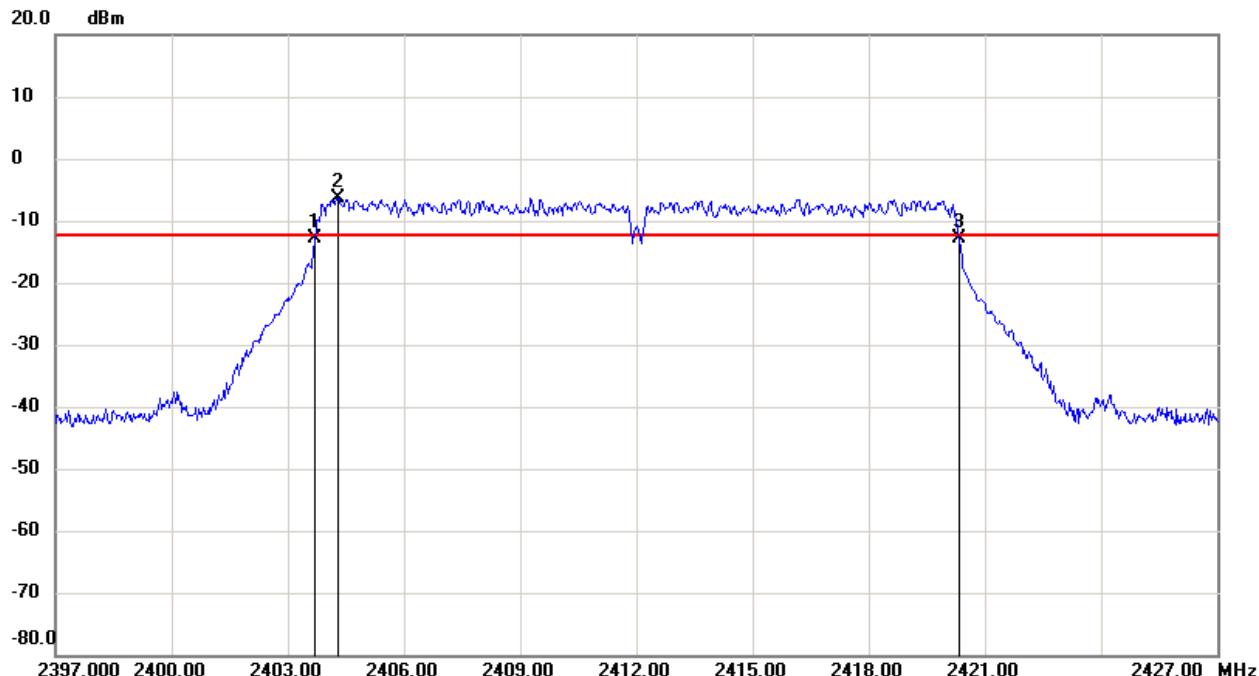
Test mode:	802.11b	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2456.9600	-9.85	-9.33	-0.52
2	2460.0200	-3.33	-9.33	6.00
3	2467.1000	-10.59	-9.33	-1.26

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	10.14	-0.74

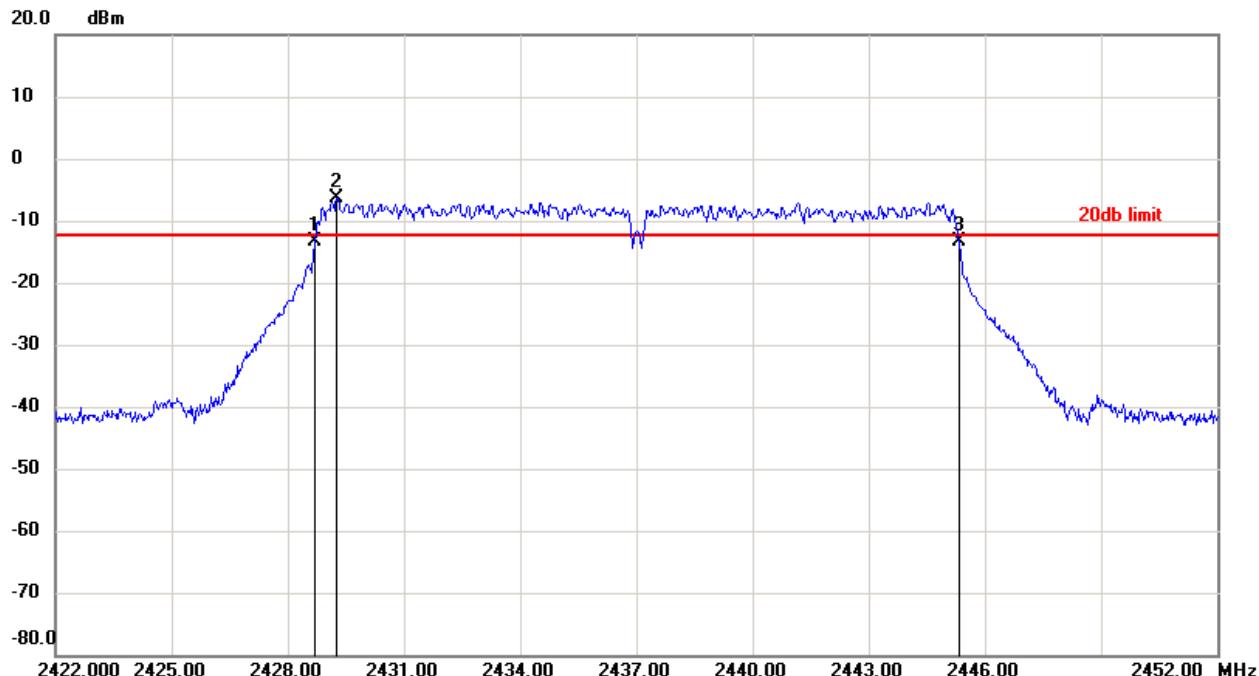
Test mode:	802.11g	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.6900	-12.98	-12.33	-0.65
2	2404.2900	-6.33	-12.33	6.00
3	2420.3400	-12.77	-12.33	-0.44

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65	0.21

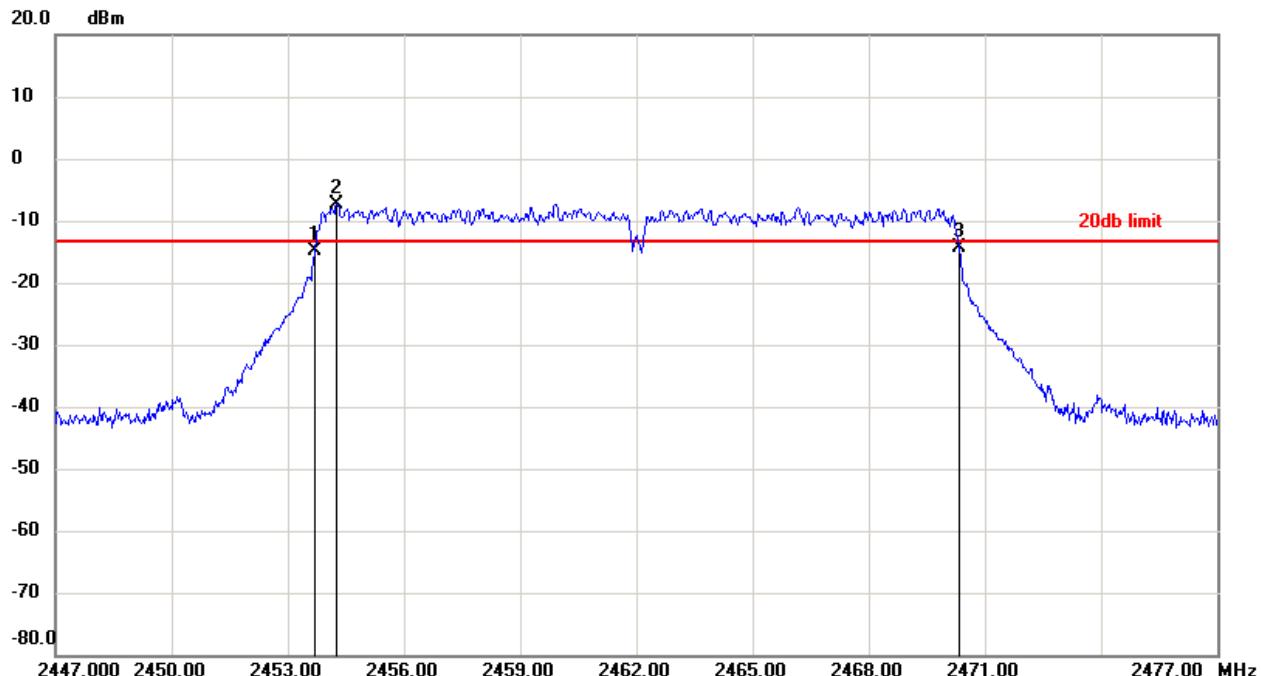
Test mode:	802.11g	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.6900	-13.43	-12.42	-1.01
2	2429.2600	-6.42	-12.42	6.00
3	2445.3400	-13.45	-12.42	-1.03

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65	-0.02

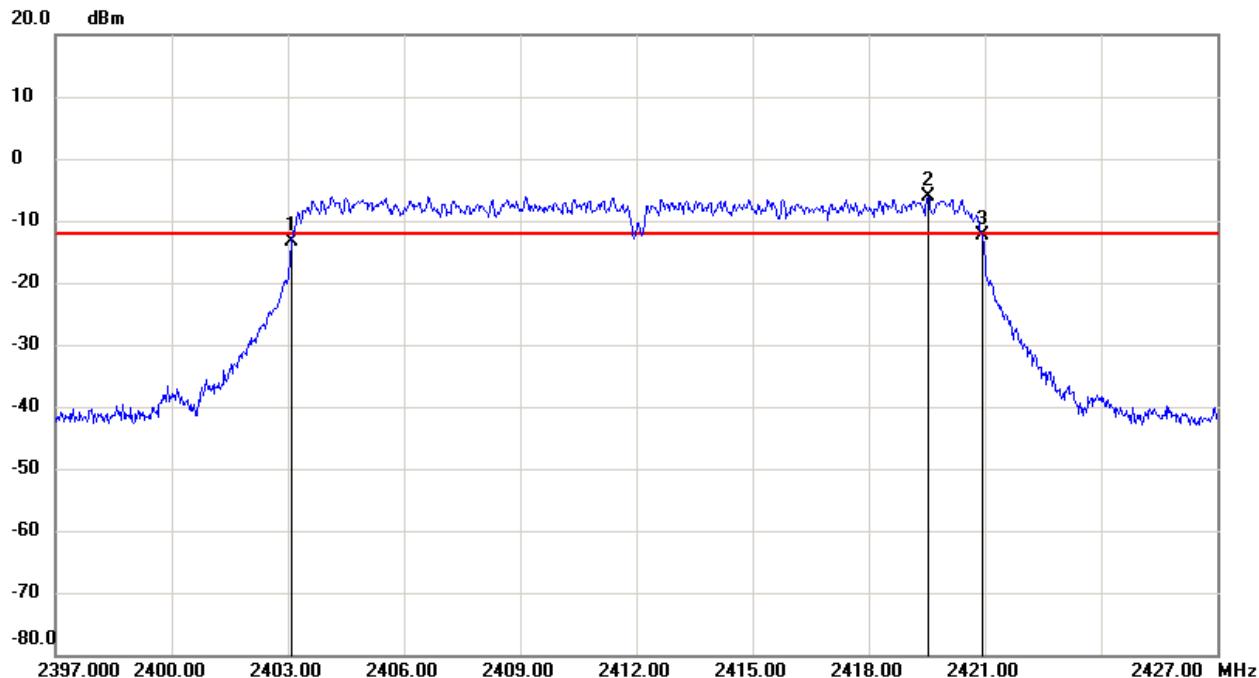
Test mode:	802.11g	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.6900	-14.83	-13.29	-1.54
2	2454.2600	-7.29	-13.29	6.00
3	2470.3400	-14.43	-13.29	-1.14

No.	Frequency(MHz)	Level(dB)
1	mk3-mk1	16.65

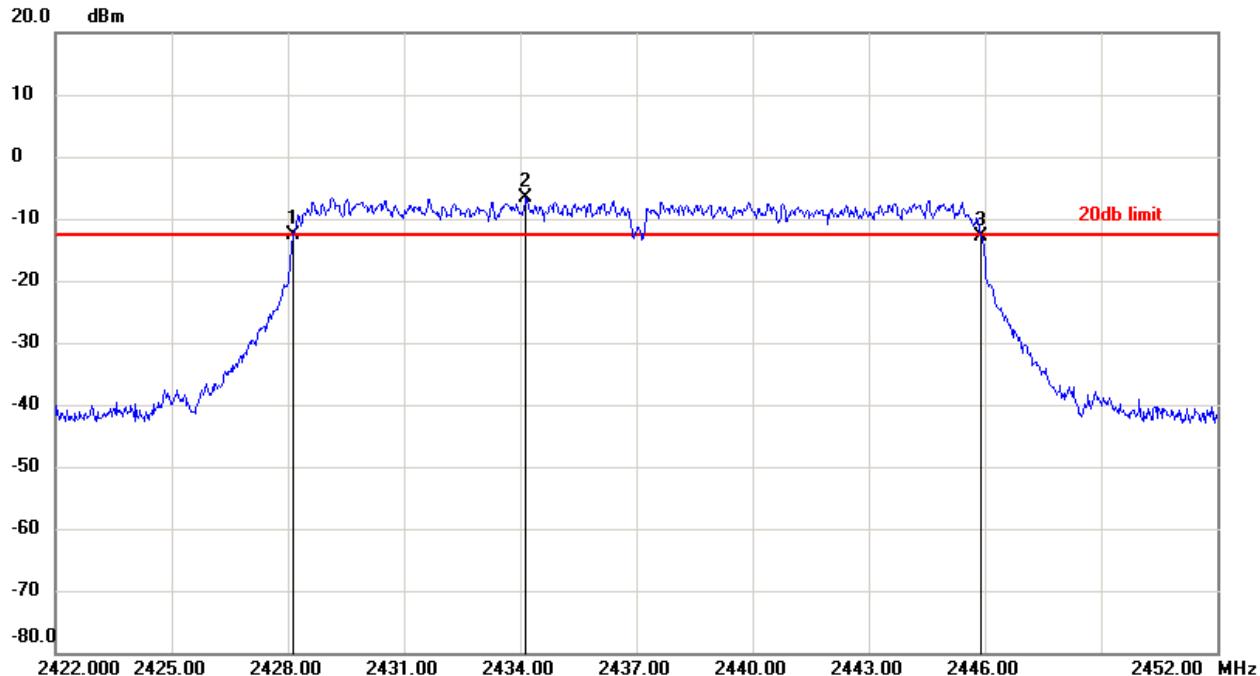
Test mode:	802.11n(HT20)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.0900	-13.42	-12.04	-1.38
2	2419.5300	-6.04	-12.04	6.00
3	2420.9400	-12.32	-12.04	-0.28

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.85	1.1

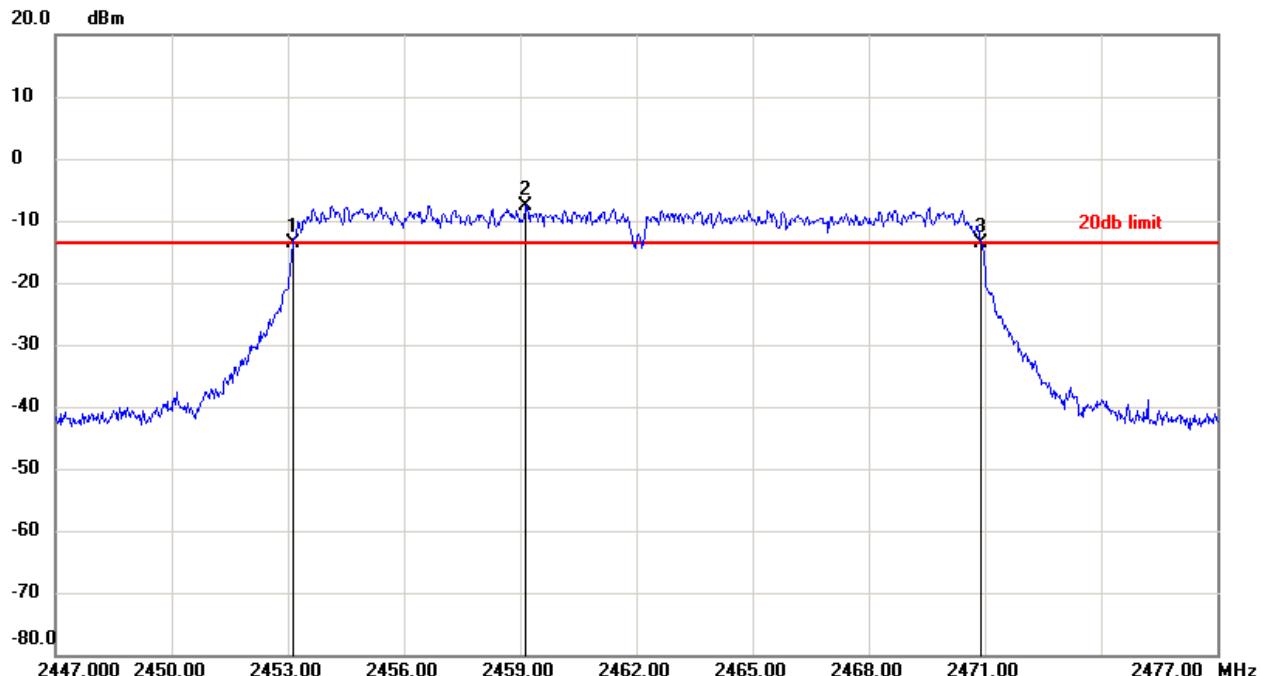
Test mode:	802.11n(HT20)	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.1200	-12.62	-12.54	-0.08
2	2434.1500	-6.54	-12.54	6.00
3	2445.8800	-12.86	-12.54	-0.32

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.76	-0.24

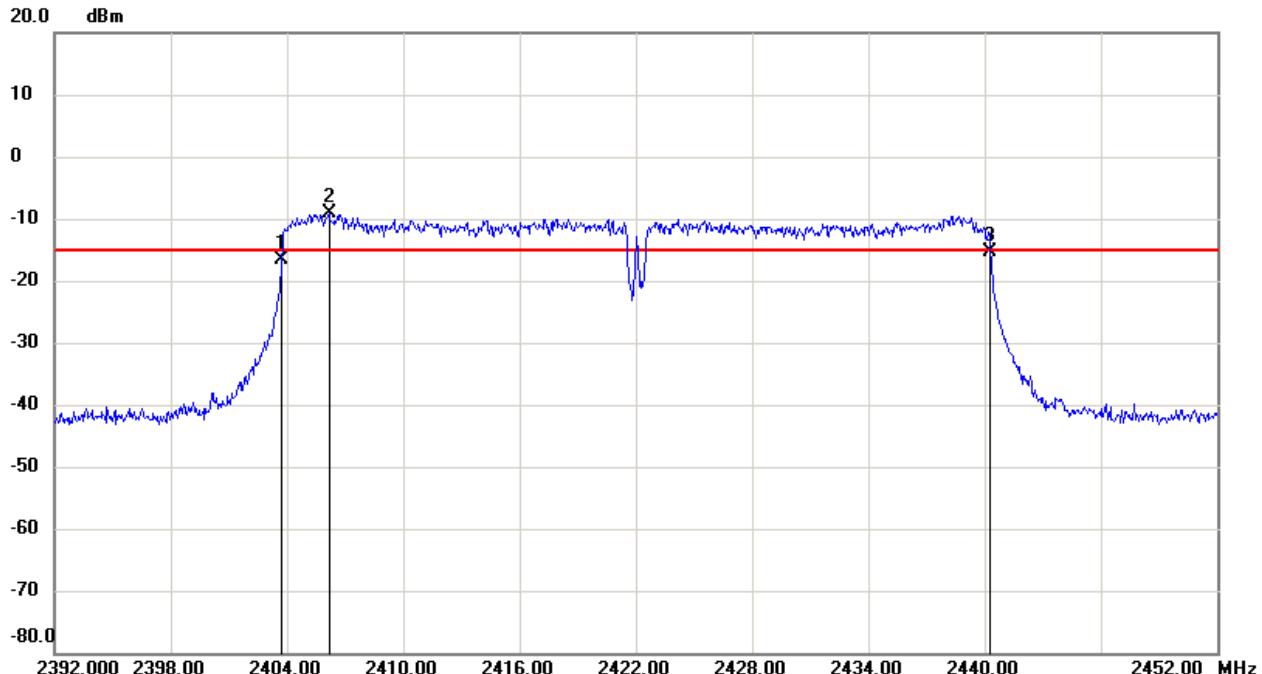
Test mode:	802.11n(HT20)	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.1200	-13.60	-13.56	-0.04
2	2459.1500	-7.56	-13.56	6.00
3	2470.8800	-13.74	-13.56	-0.18

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	17.76	-0.14

Test mode:	802.11n(HT40)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.7000	-16.50	-15.22	-1.28
2	2406.1600	-9.22	-15.22	6.00
3	2440.3000	-15.48	-15.22	-0.26

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.6	1.02

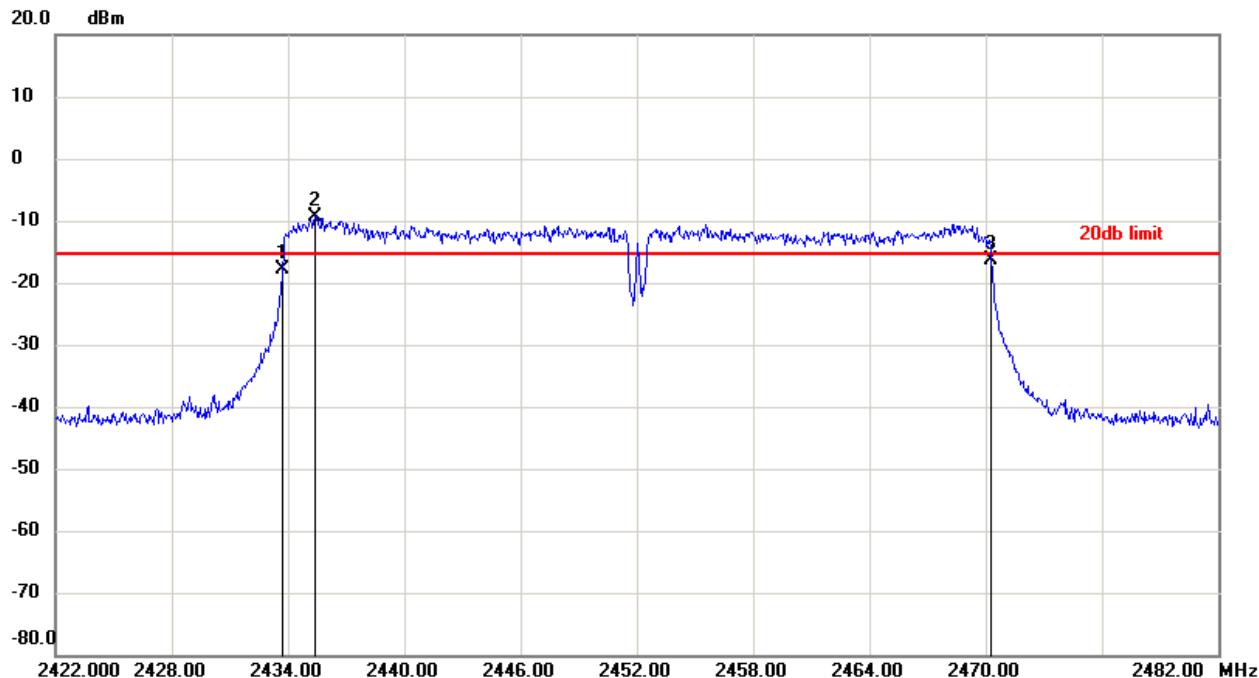
Test mode:	802.11n(HT40)	Test channel:	Middle
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2418.7600	-14.84	-14.83	-0.01
2	2420.3800	-8.83	-14.83	6.00
3	2455.3000	-15.94	-14.83	-1.11

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.54	-1.1

Test mode:	802.11n(HT40)	Test channel:	Highest
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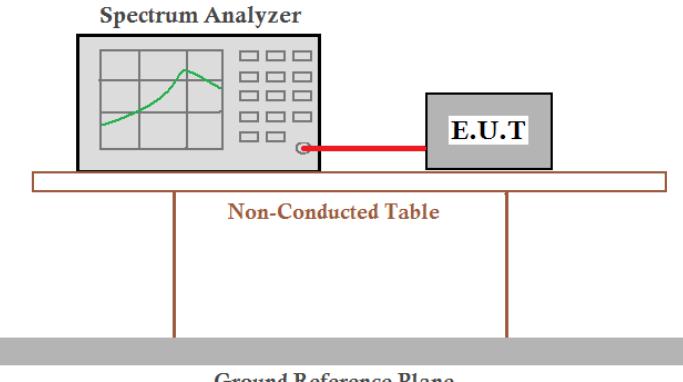


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2433.7000	-17.95	-15.25	-2.70
2	2435.3800	-9.25	-15.25	6.00
3	2470.3000	-16.26	-15.25	-1.01

No.		Frequency(MHz)	Level(dB)
1	mk3-mk1	36.6	1.69



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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass



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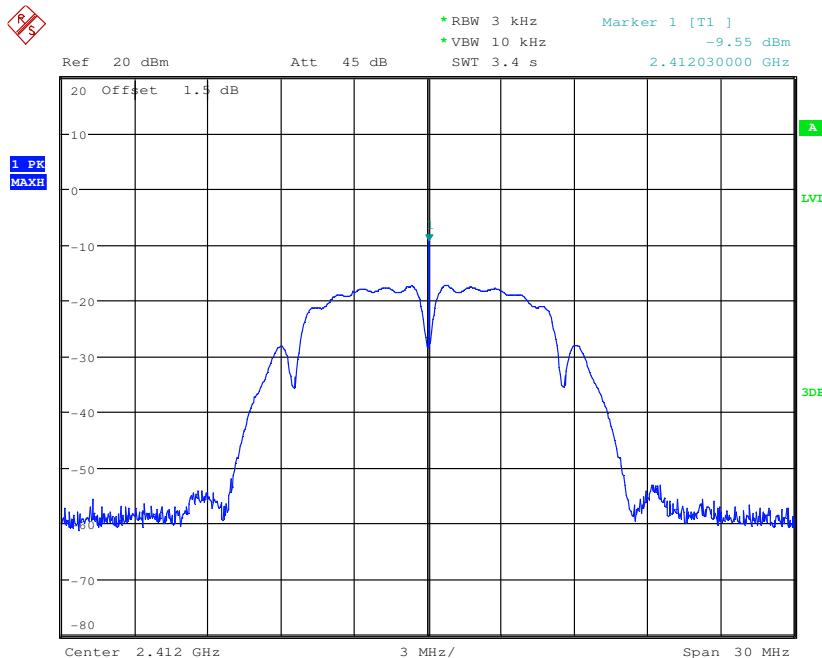
Measurement Data

802.11b mode				
Test channel	Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)	Result
	Antenna 1	Antenna 2		
Lowest	-9.55	-17.94	≤8.00	Pass
Middle	-9.29	-18.59	≤8.00	Pass
Highest	-9.22	-19.45	≤8.00	Pass
802.11g mode				
Test channel	Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)	Result
	Antenna 1	Antenna 2		
Lowest	-7.48	-16.03	≤8.00	Pass
Middle	-7.52	-16.66	≤8.00	Pass
Highest	-7.04	-17.48	≤8.00	Pass
802.11n(HT20) mode				
Test channel	Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)	Result
	Antenna 1	Antenna 2		
Lowest	-7.34	-15.82	-6.76	≤8.00
Middle	-7.12	-16.33	-6.63	≤8.00
Highest	-7.04	-17.77	-6.69	≤8.00
802.11n(HT40) mode				
Test channel	Power Spectral Density (dBm/3kHz)		Limit (dBm/3kHz)	Result
	Antenna 1	Antenna 2		
Lowest	-7.38	-15.97	-6.82	≤8.00
Middle	-7.14	-16.49	-6.66	≤8.00
Highest	-6.93	-17.00	-6.52	≤8.00

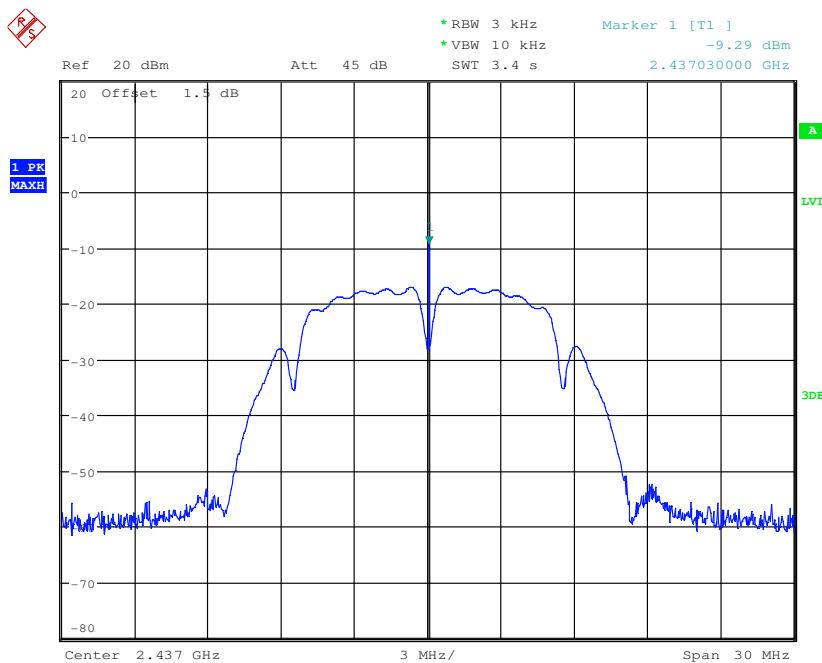
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Test plot as follows:
Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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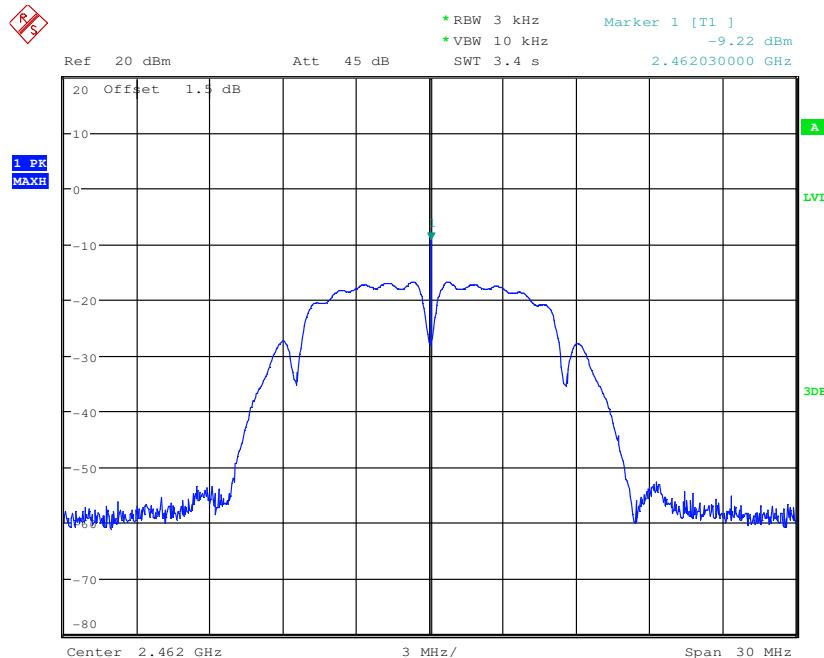


Test mode:	802.11b	Test channel:	Middle
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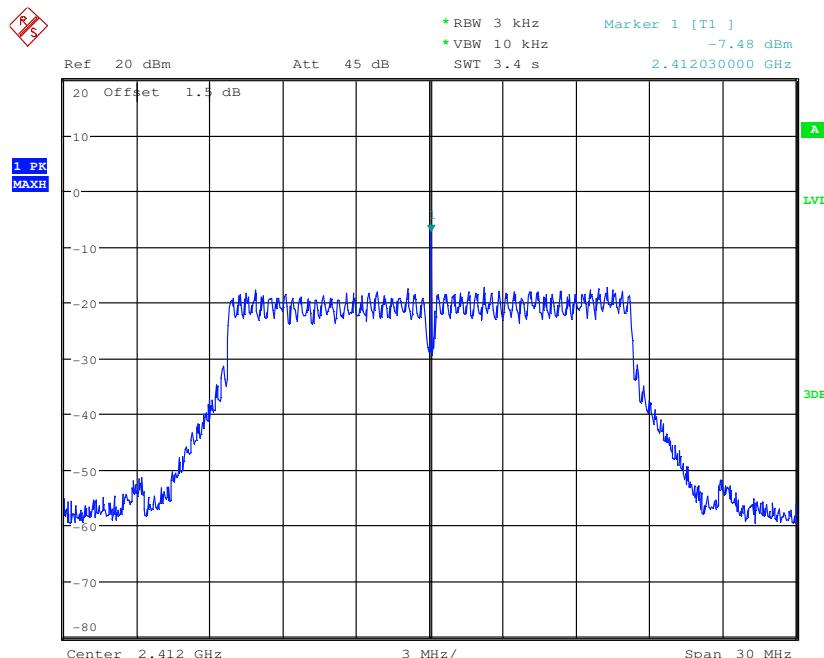


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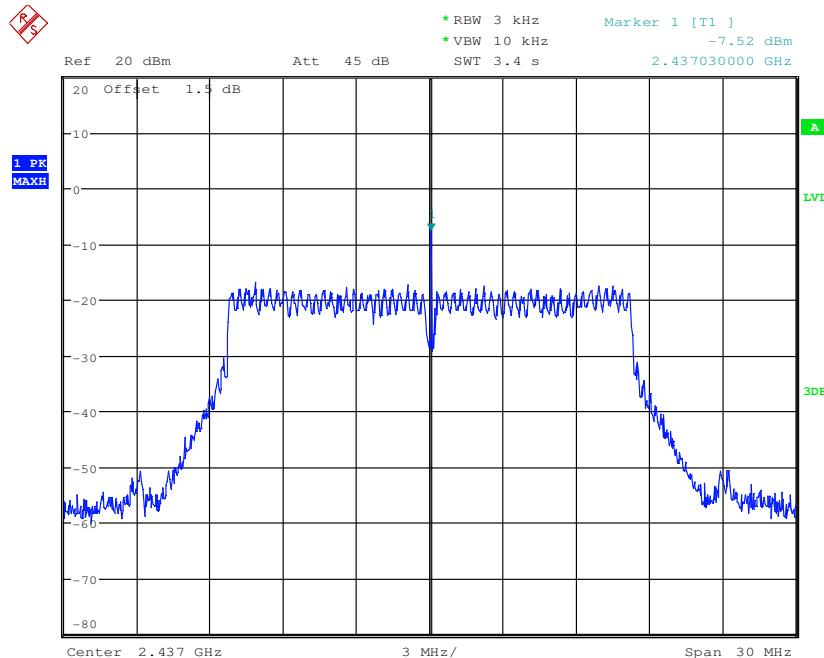
Test mode:	802.11b	Test channel:	Highest
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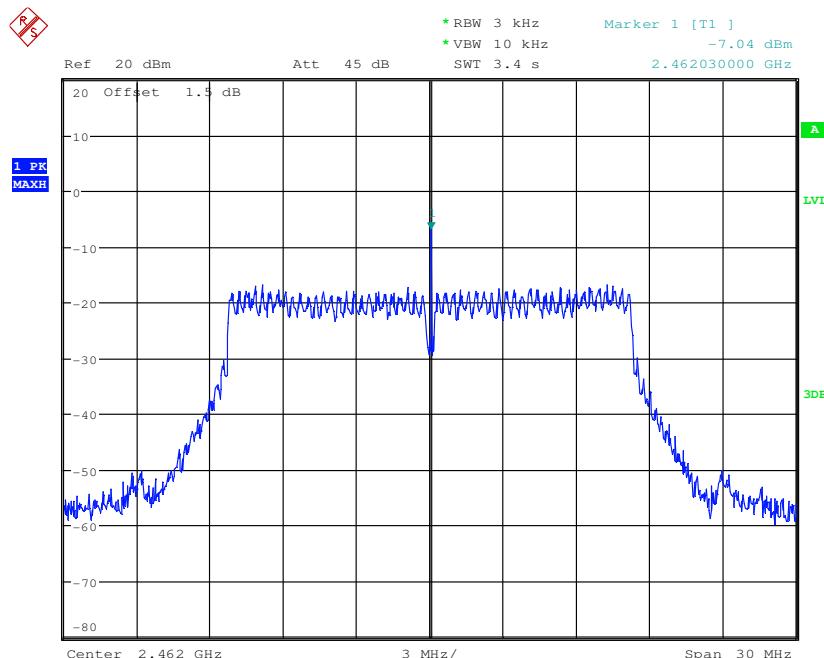
Test mode:	802.11g	Test channel:	Lowest
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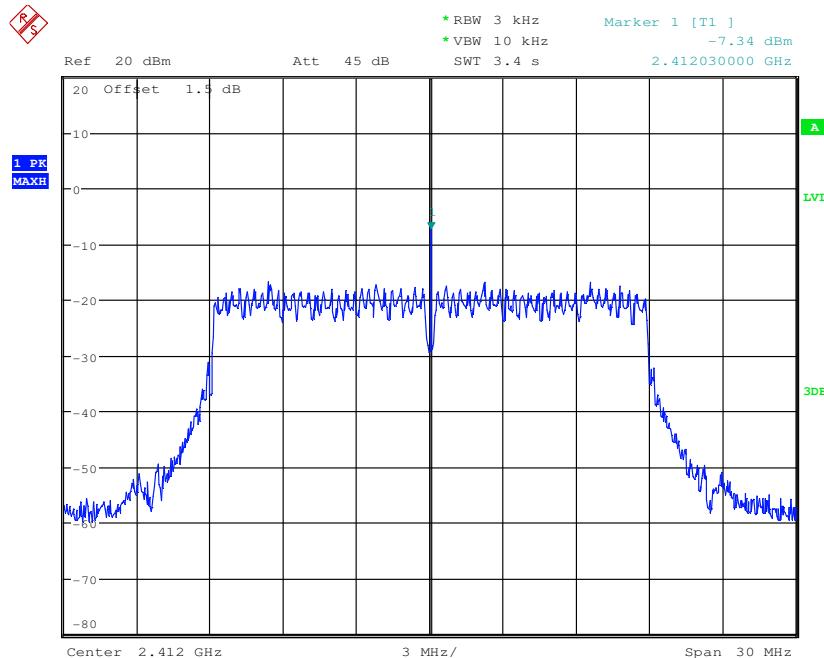
Test mode:	802.11g	Test channel:	Middle
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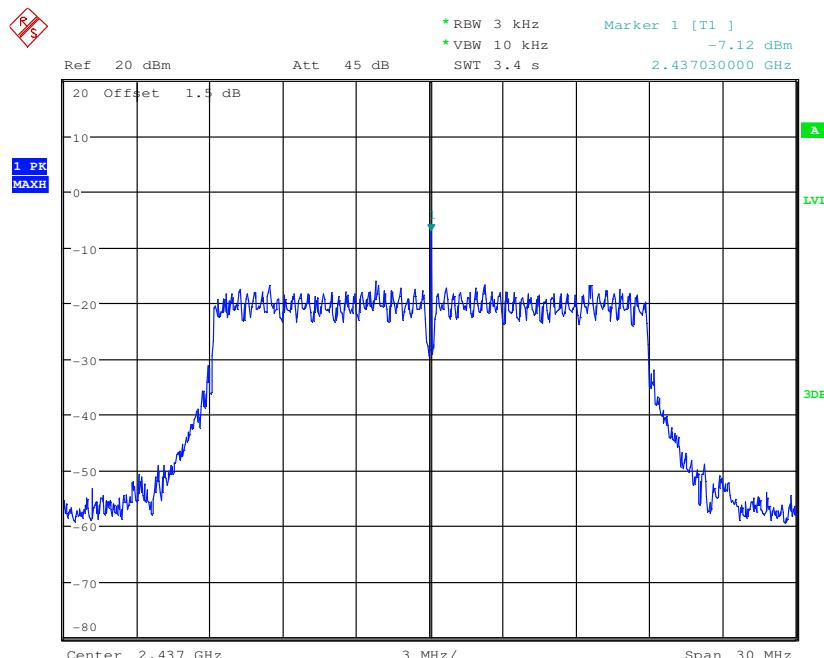
Test mode:	802.11g	Test channel:	Highest
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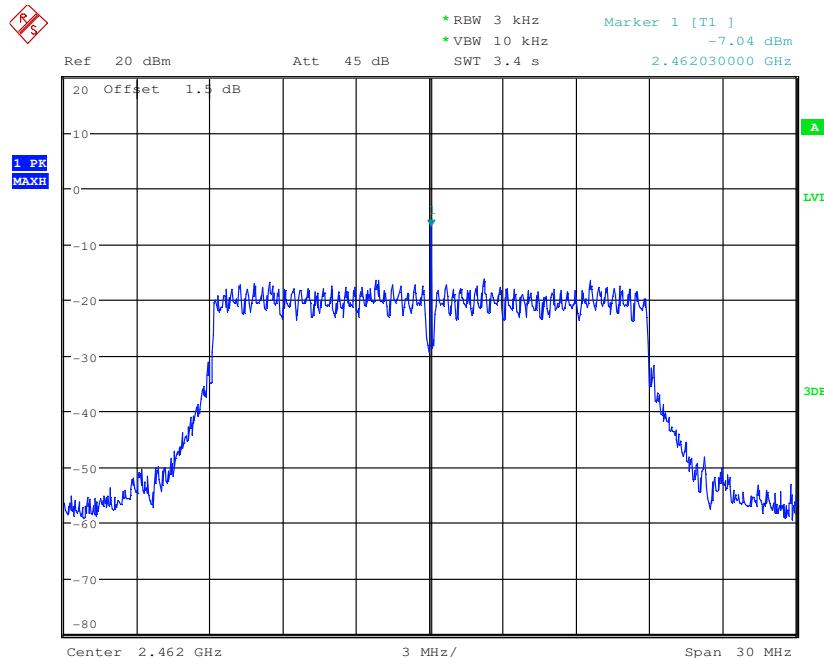
Test mode:	802.11n(HT20)	Test channel:	Lowest
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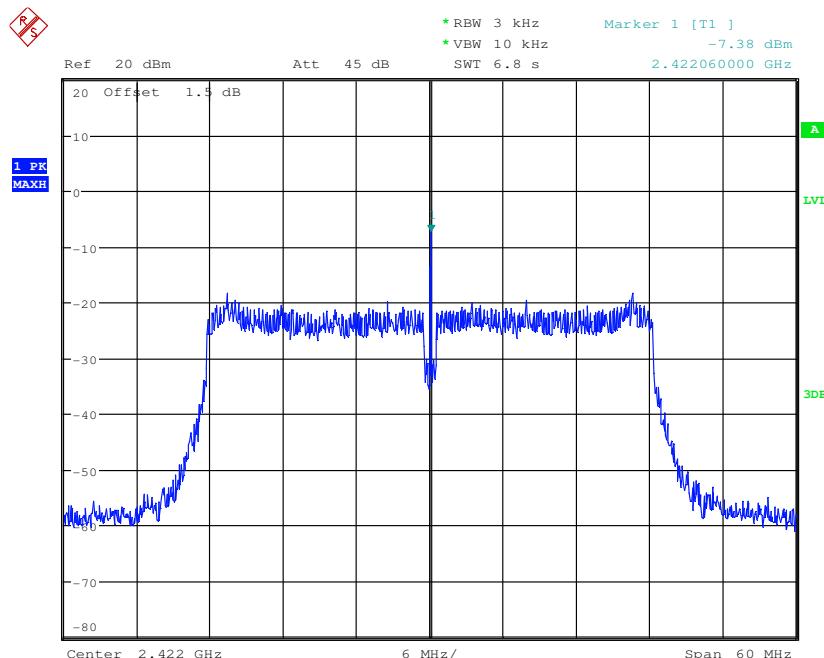
Test mode:	802.11n(HT20)	Test channel:	Middle
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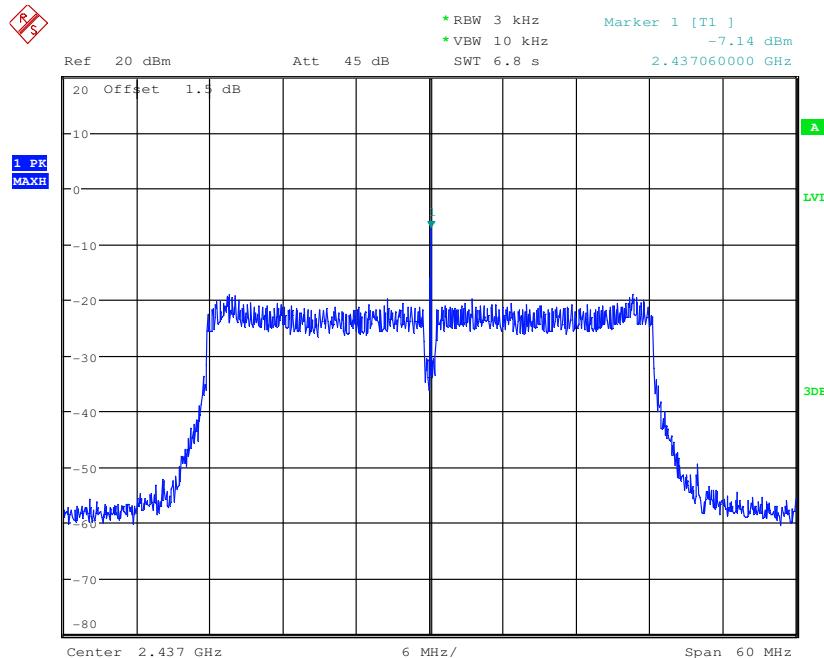
Test mode:	802.11n(HT20)	Test channel:	Highest
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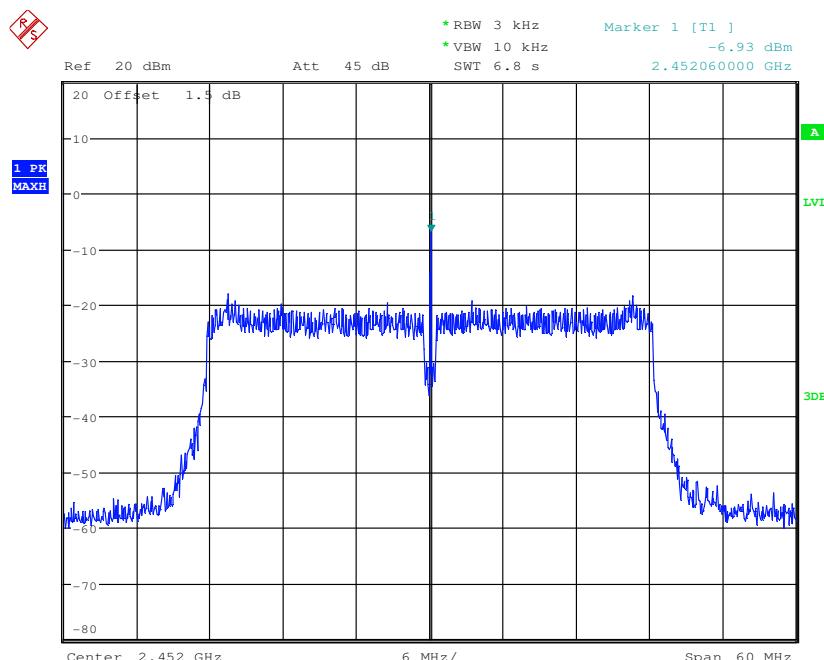
Test mode:	802.11n(HT40)	Test channel:	Lowest
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Test mode:	802.11n(HT40)	Test channel:	Middle
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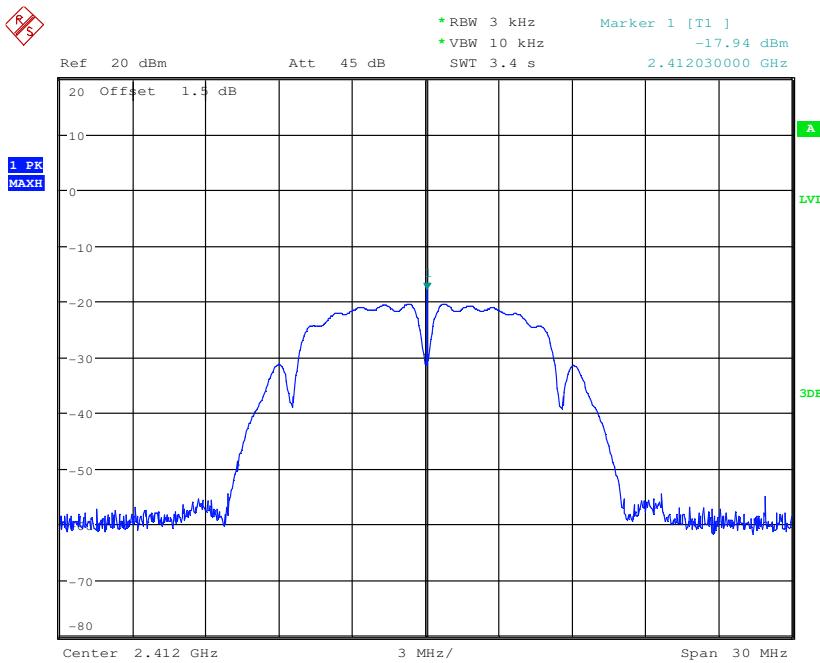


Test mode:	802.11n(HT40)	Test channel:	Highest
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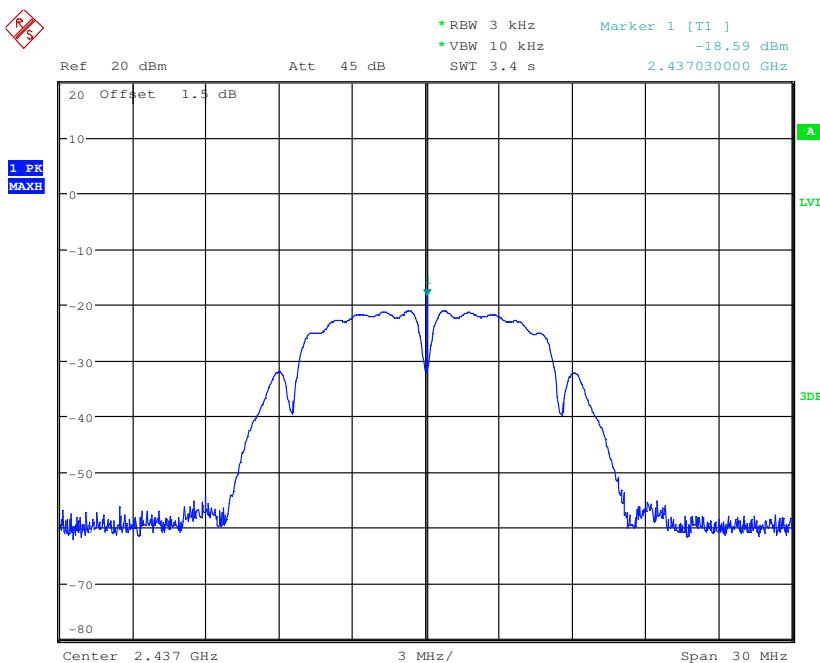


Antenna 2

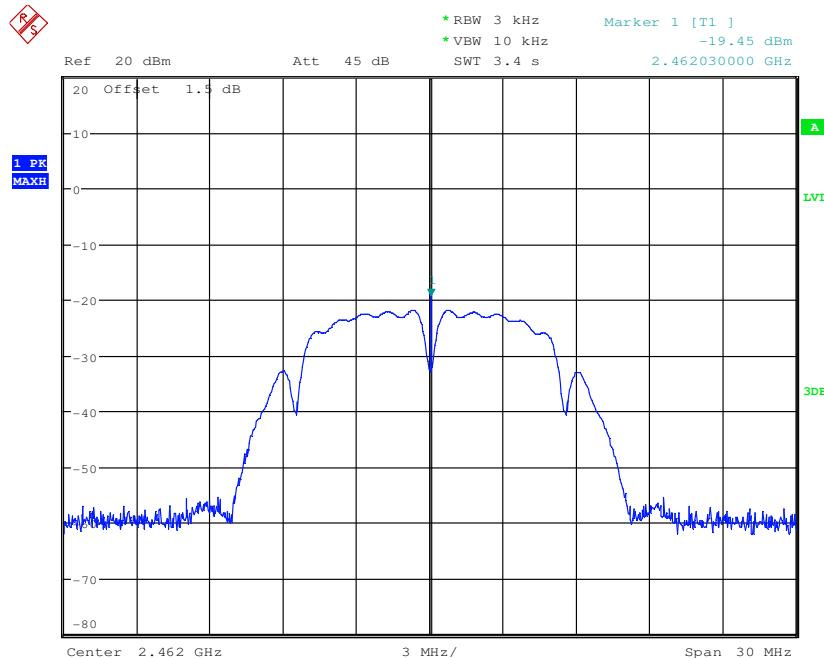
Test mode:	802.11b	Test channel:	Lowest
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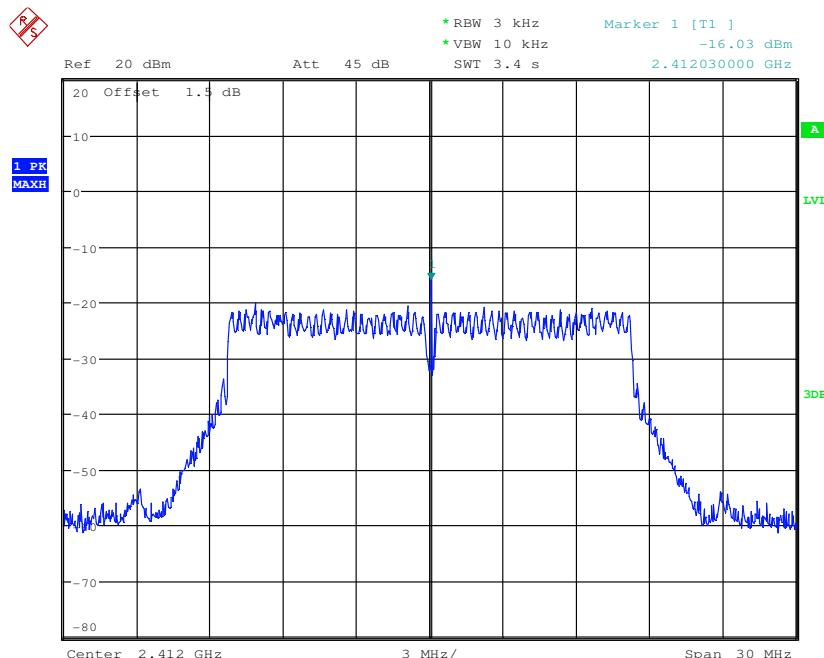
Test mode:	802.11b	Test channel:	Middle
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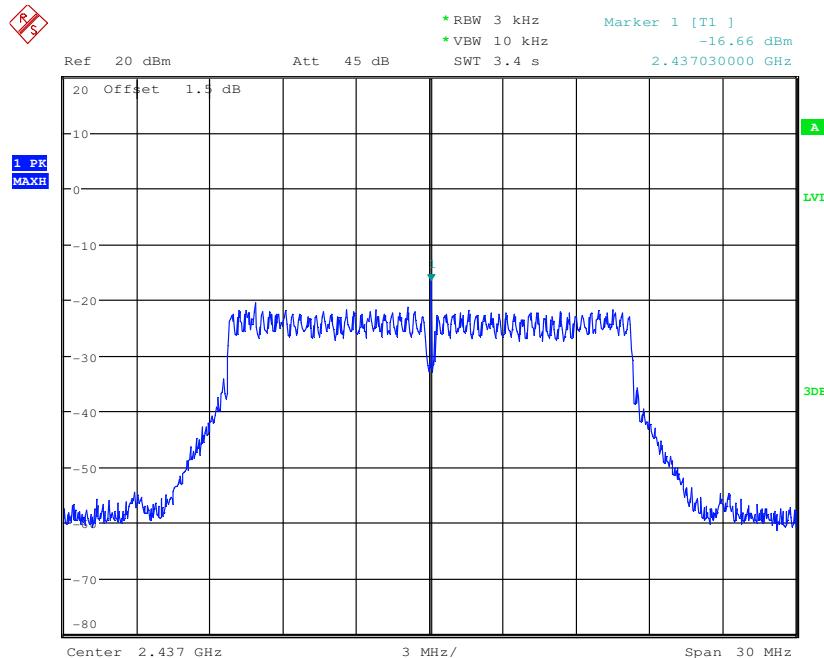
Test mode:	802.11b	Test channel:	Highest
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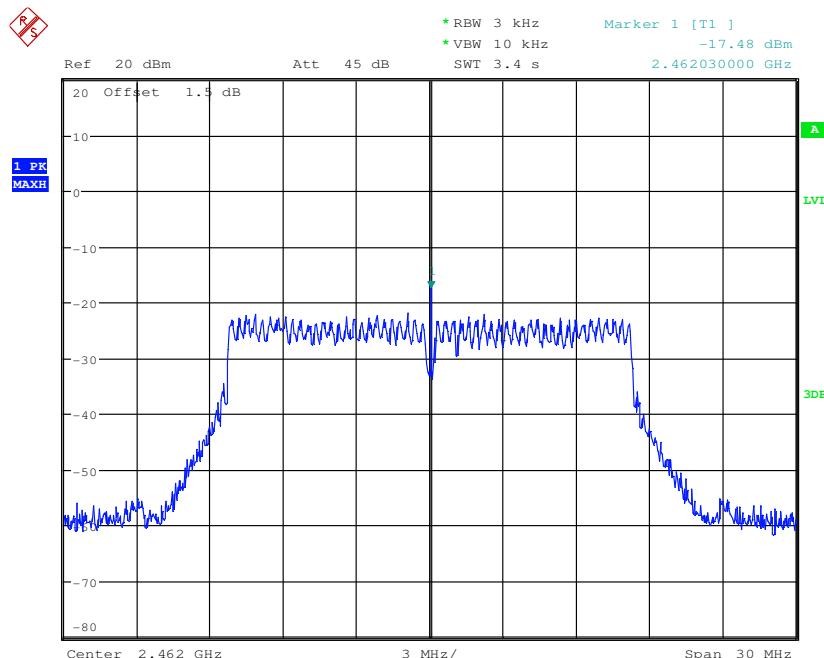
Test mode:	802.11g	Test channel:	Lowest
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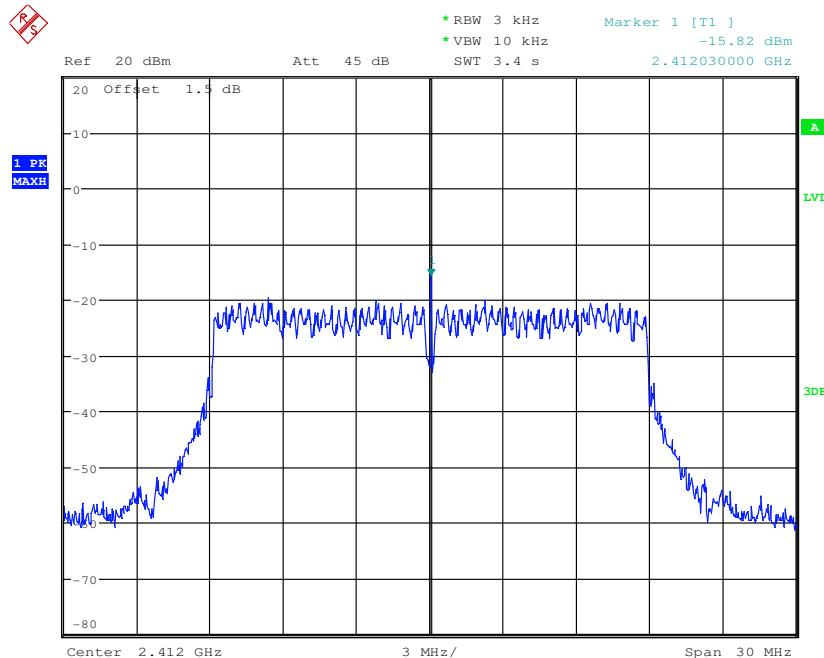
Test mode:	802.11g	Test channel:	Middle
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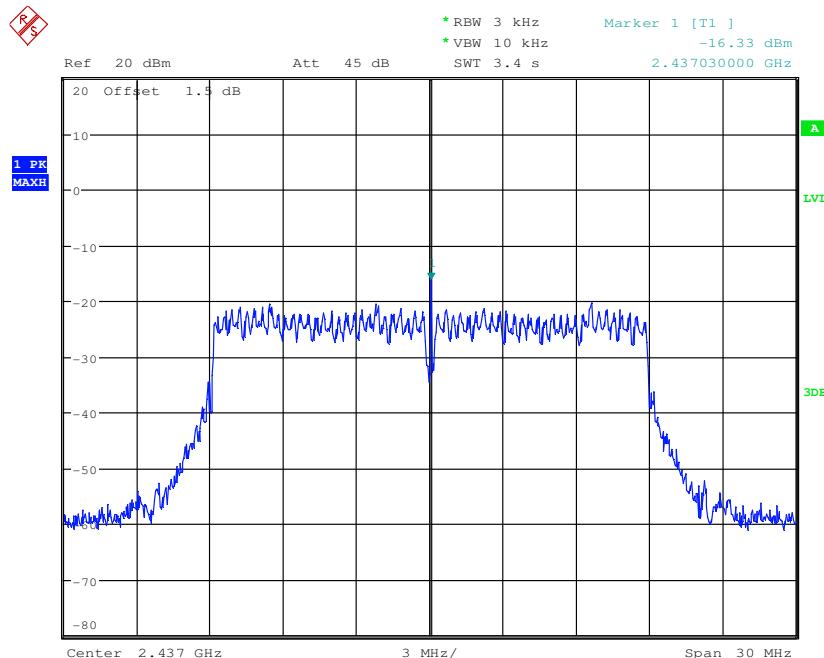
Test mode:	802.11g	Test channel:	Highest
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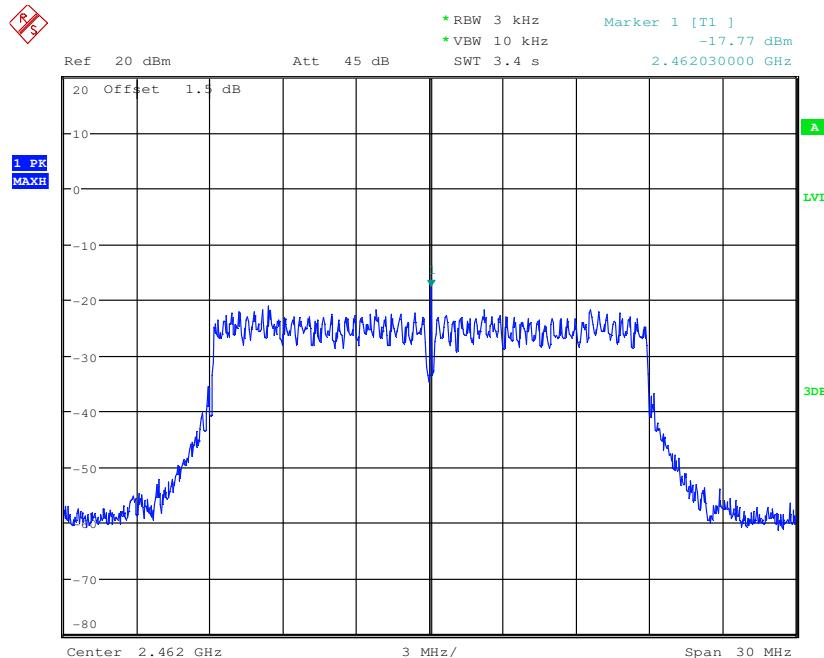
Test mode:	802.11n(HT20)	Test channel:	Lowest
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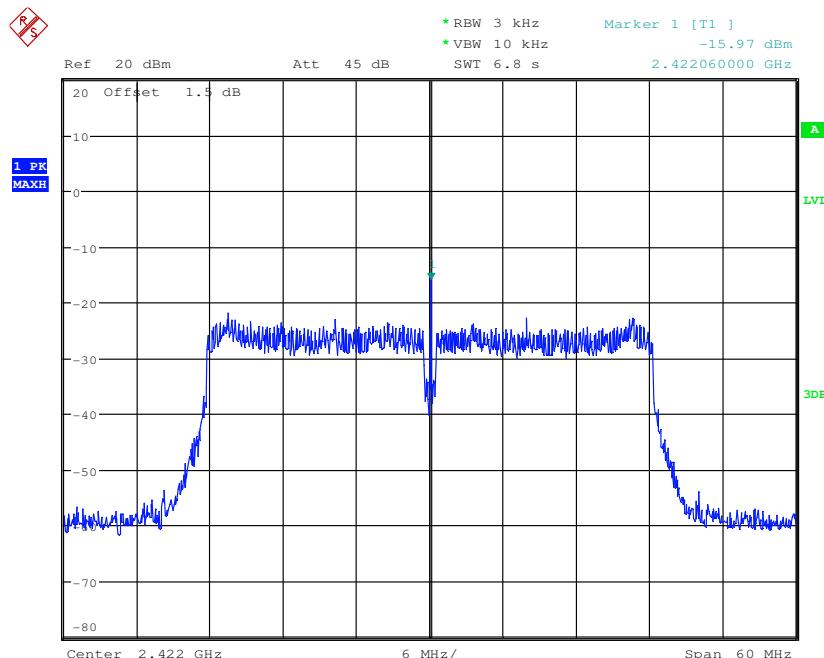
Test mode:	802.11n(HT20)	Test channel:	Middle
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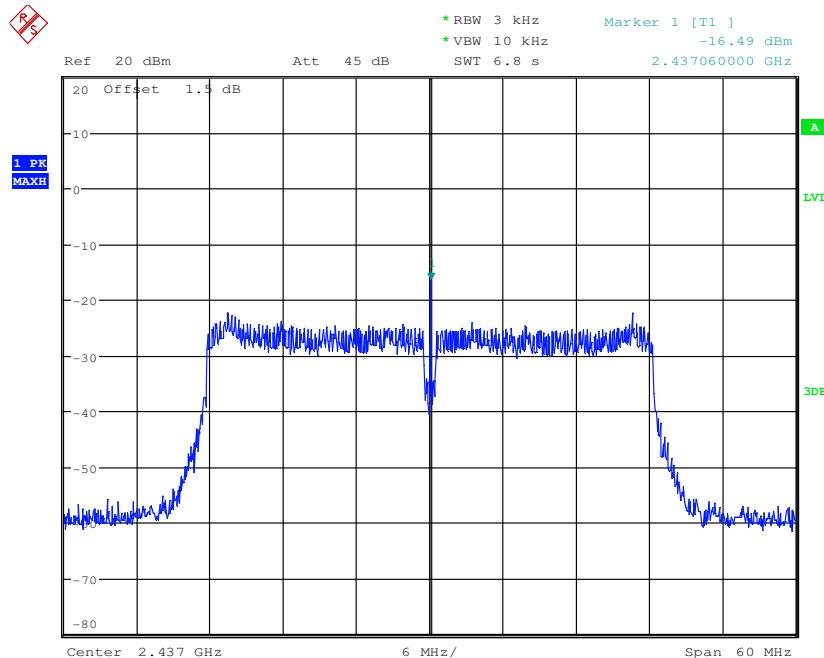
Test mode:	802.11n(HT20)	Test channel:	Highest
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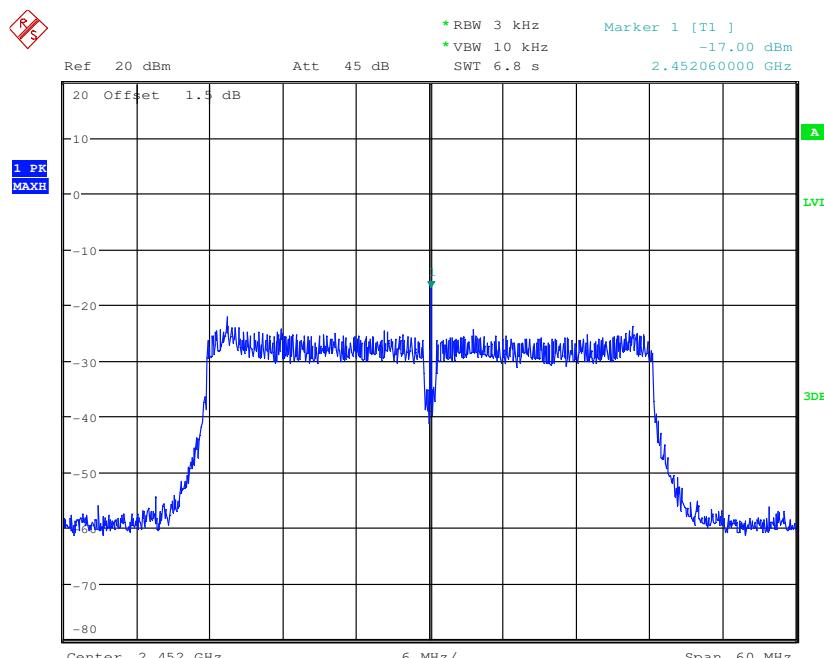
Test mode:	802.11n(HT40)	Test channel:	Lowest
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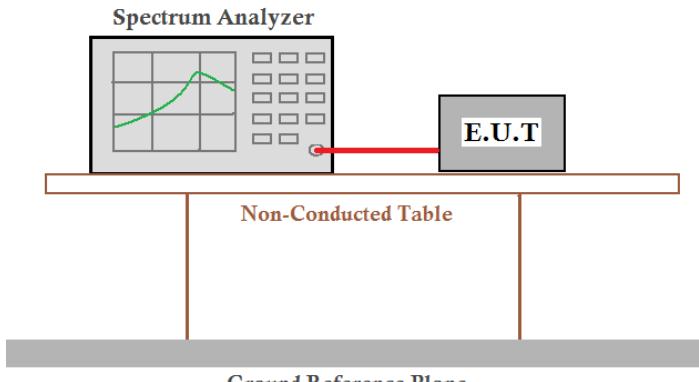
Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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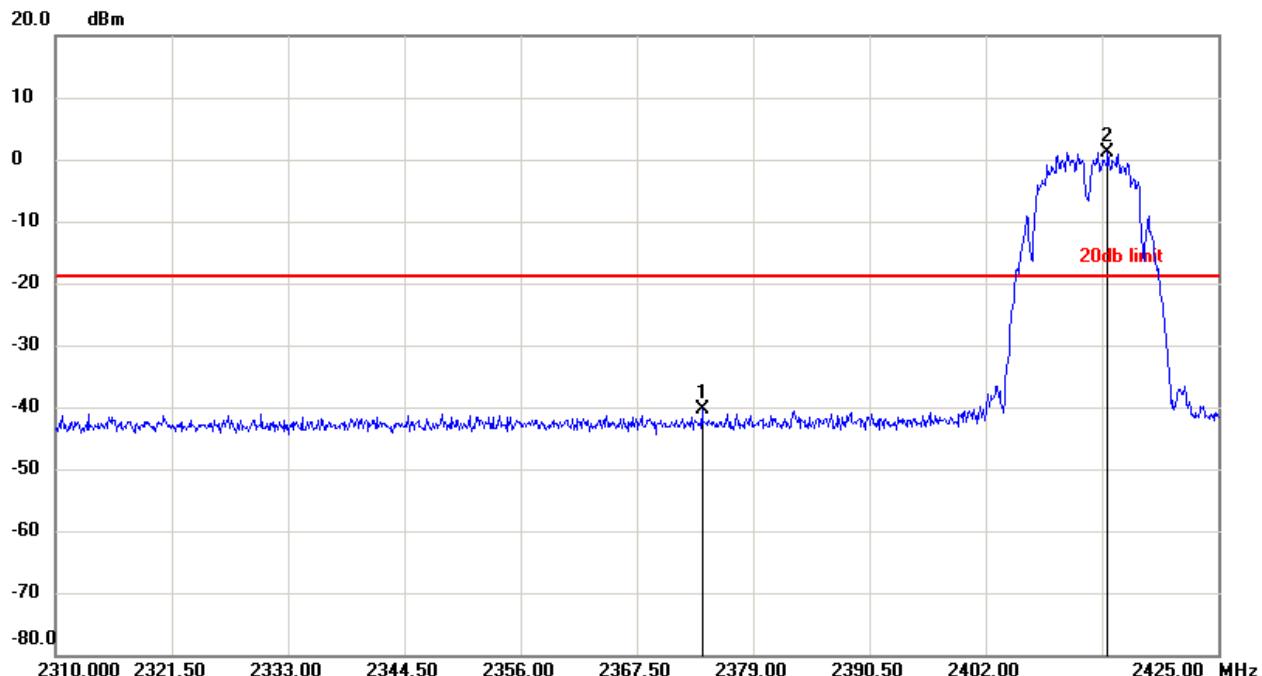
6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	 <p>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>
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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
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:

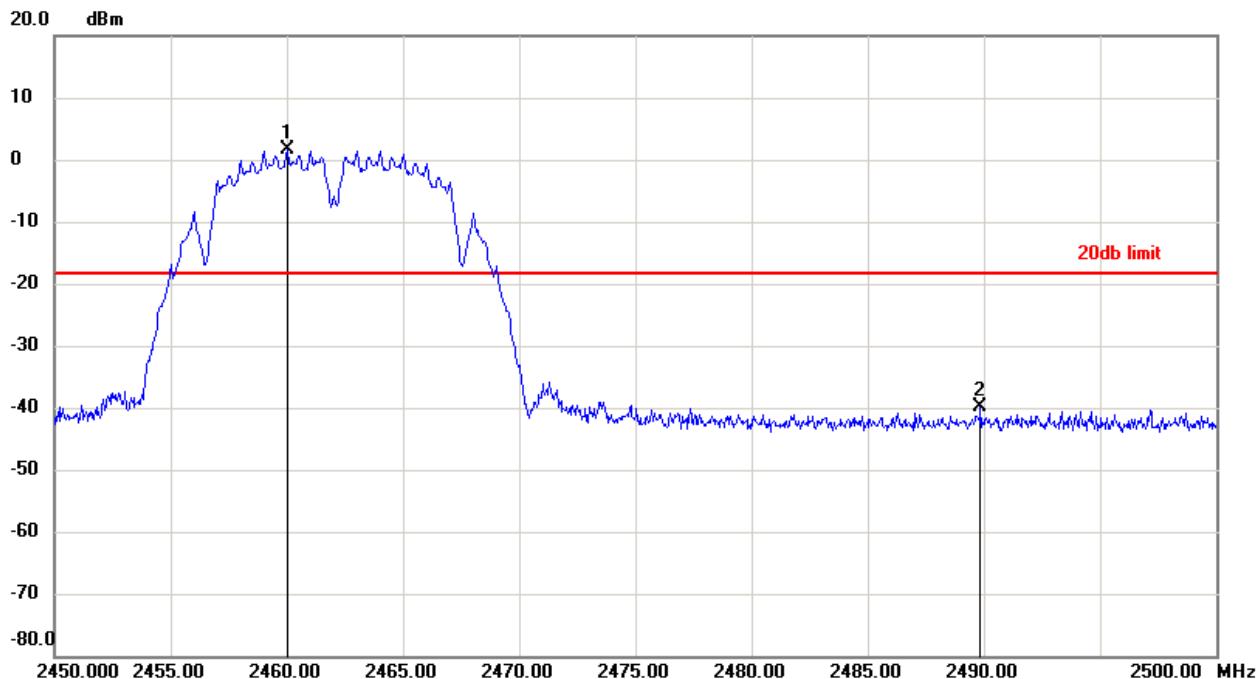
Antenna 1

Test mode:	802.11b	Test channel:	Lowest
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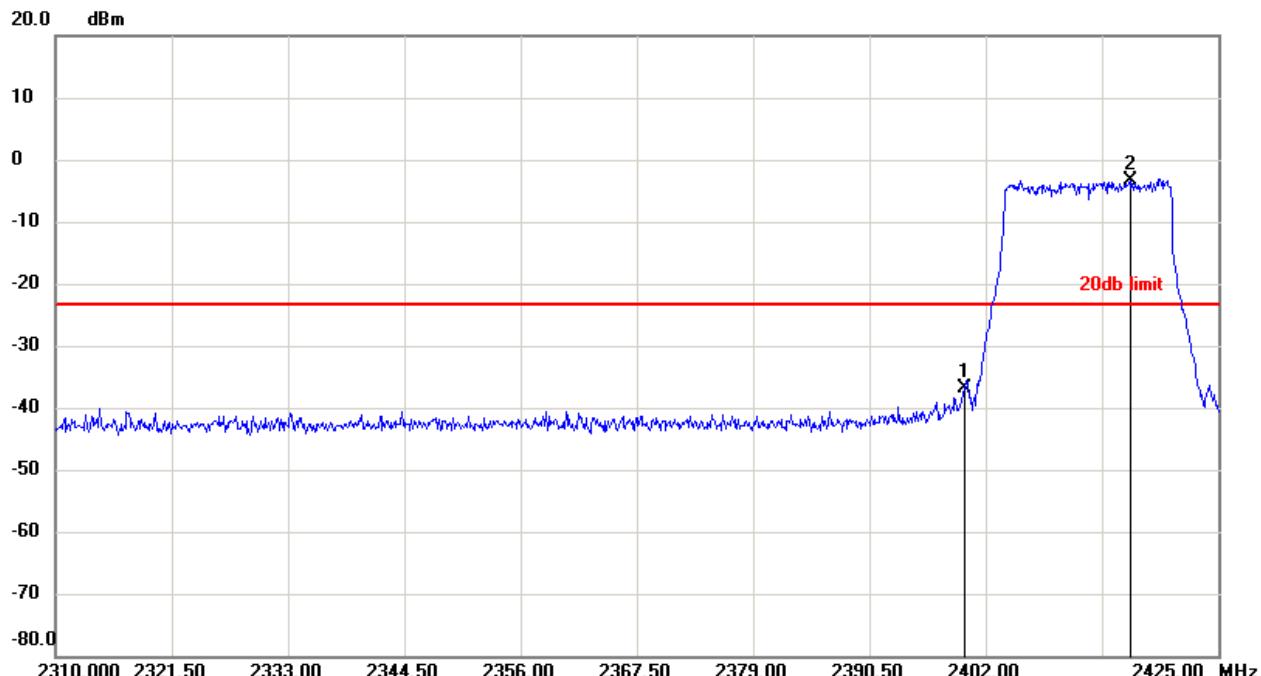
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2373.9400	-40.43	-18.87	-21.56
2	2414.0750	1.13	-18.87	20.00

Test mode:	802.11b	Test channel:	Highest
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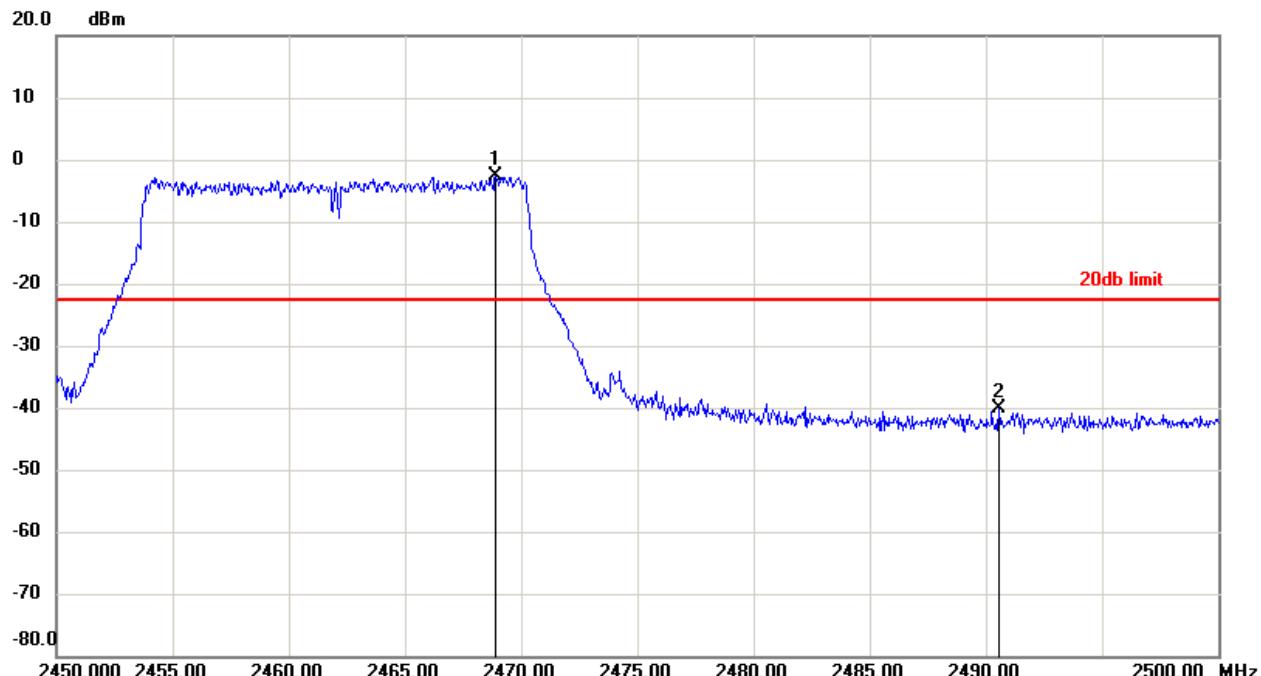
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2460.0000	1.67	-18.33	20.00
2	2489.8500	-39.96	-18.33	-21.63

Test mode:	802.11g	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2399.9300	-36.97	-23.27	-13.70
2	2416.2600	-3.27	-23.27	20.00

Test mode:	802.11g	Test channel:	Highest
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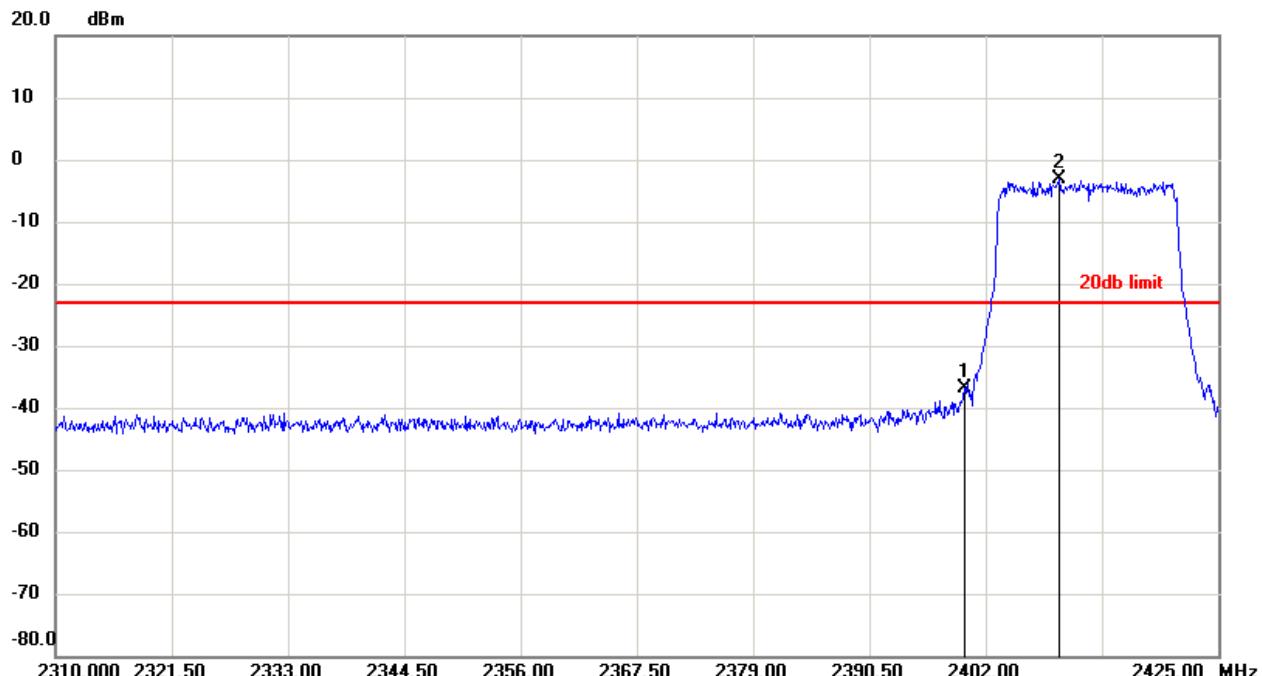
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2468.9000	-2.68	-22.68	20.00
2	2490.5500	-40.13	-22.68	-17.45



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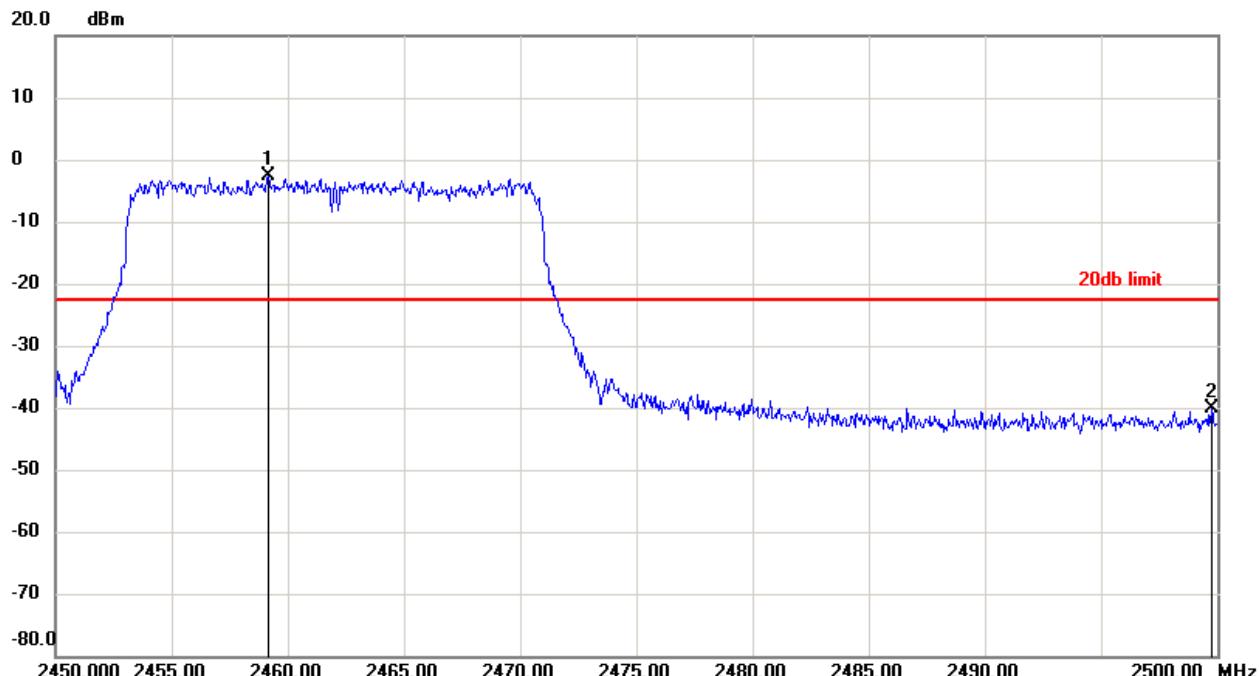


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2399.9300	-36.98	-23.12	-13.86
2	2409.2450	-3.12	-23.12	20.00



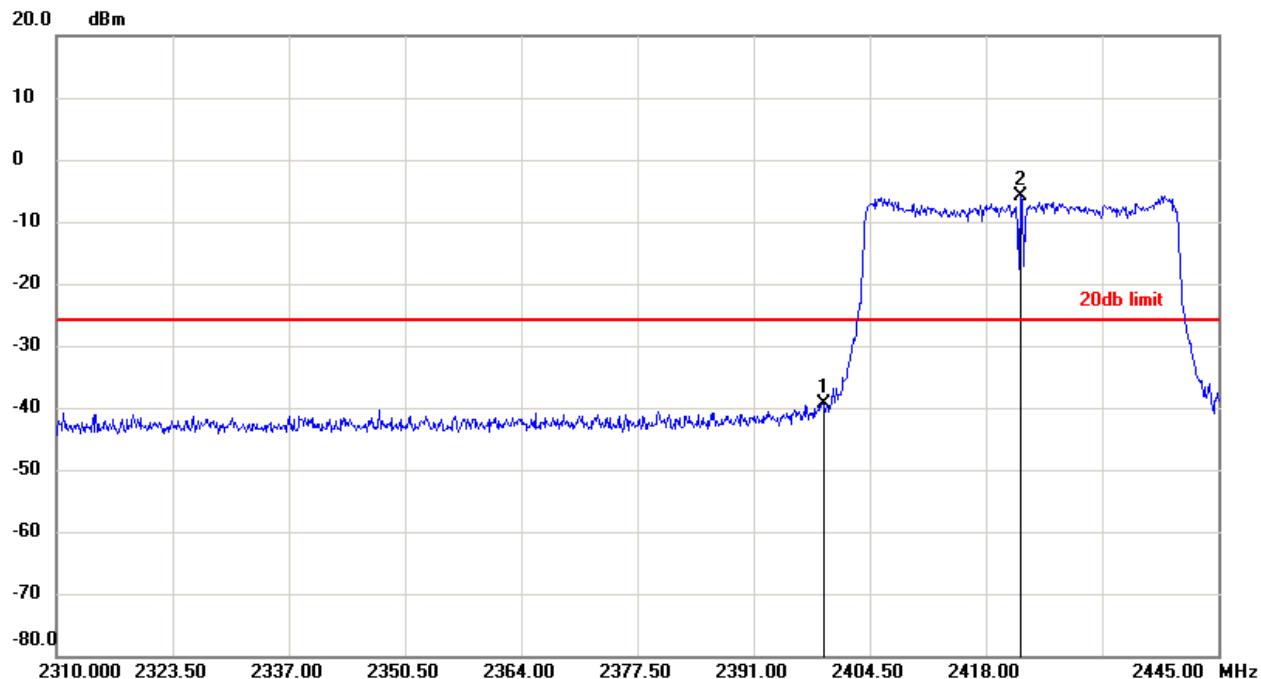
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Test mode:	802.11n(HT20)	Test channel:	Highest
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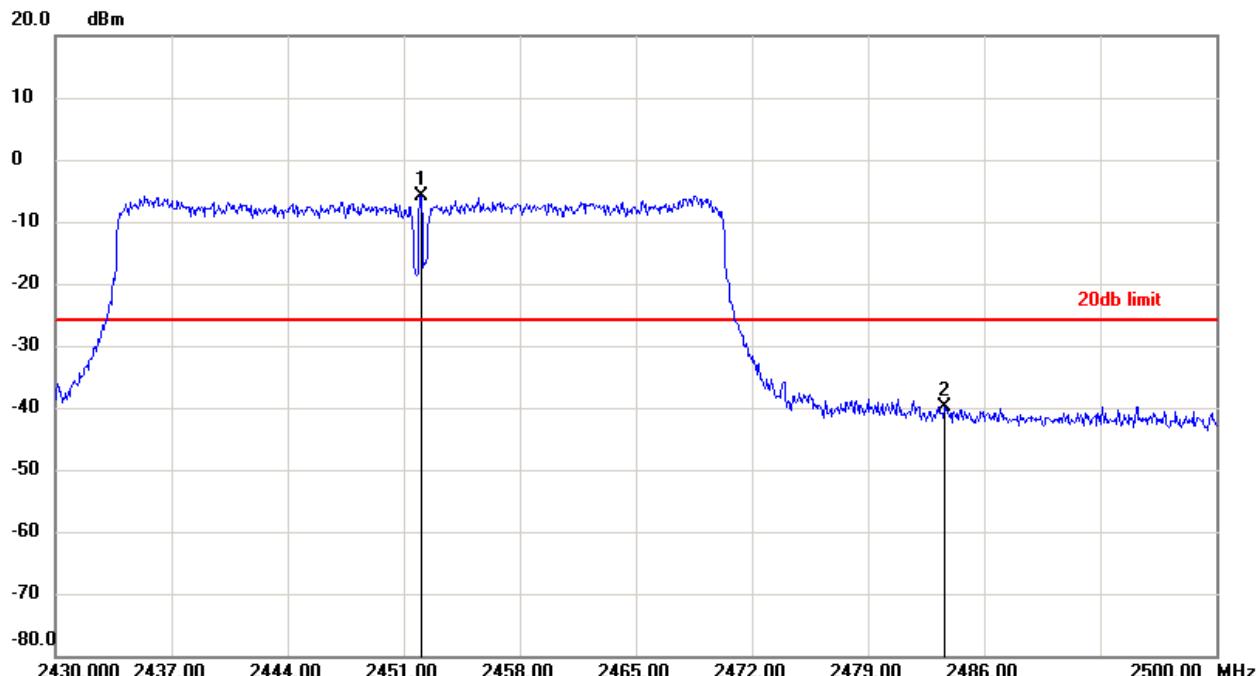
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2459.1500	-2.50	-22.50	20.00
2	2499.7500	-40.20	-22.50	-17.70

Test mode:	802.11n(HT40)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2399.1000	-39.28	-25.96	-13.32
2	2422.0500	-5.96	-25.96	20.00

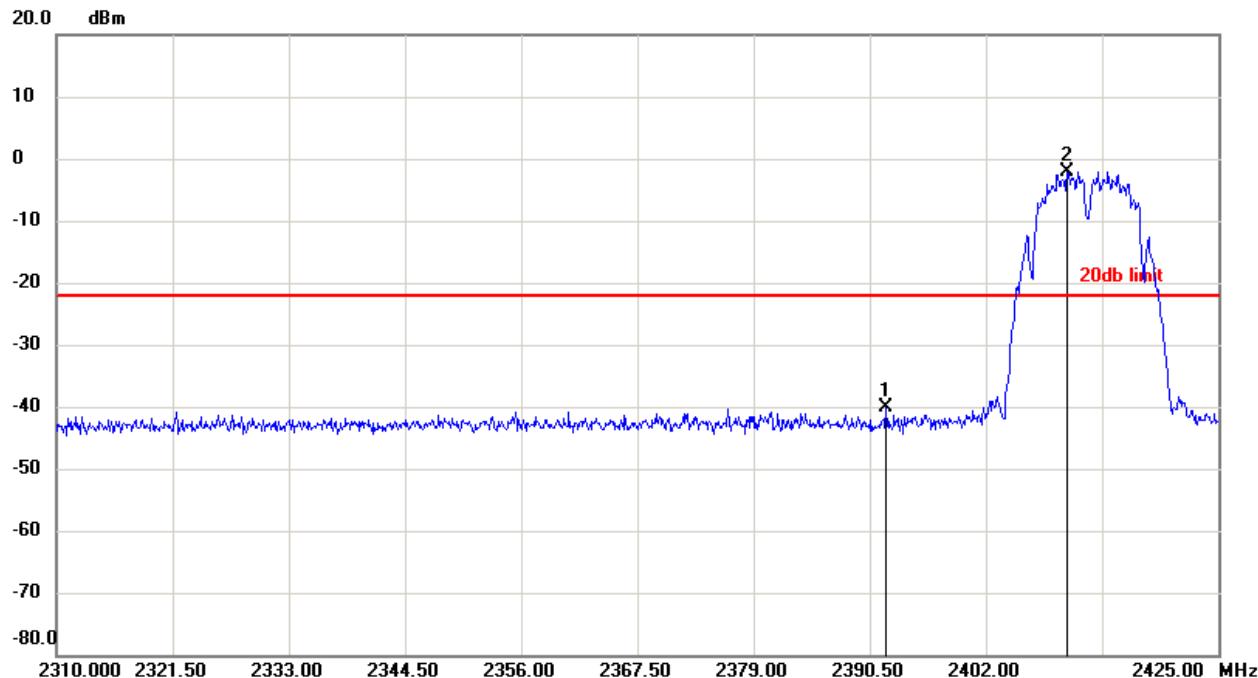
Test mode:	802.11n(HT40)	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2452.0500	-5.79	-25.79	20.00
2	2483.6200	-39.80	-25.79	-14.01

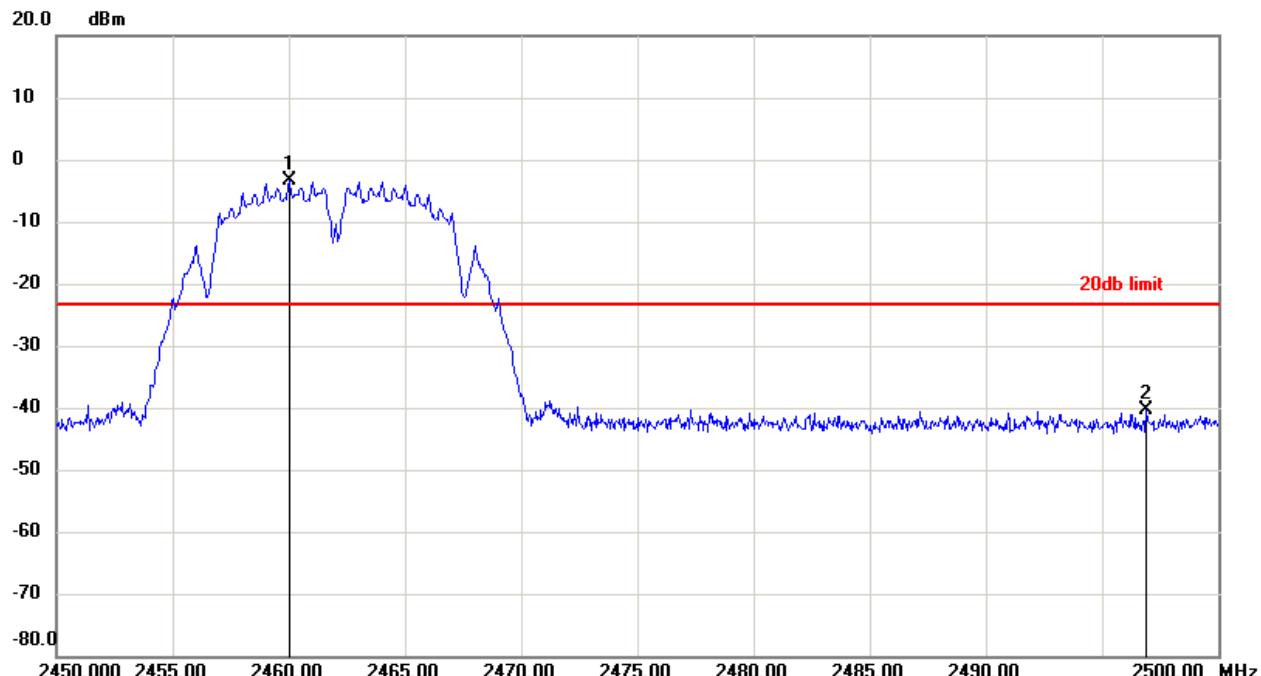
Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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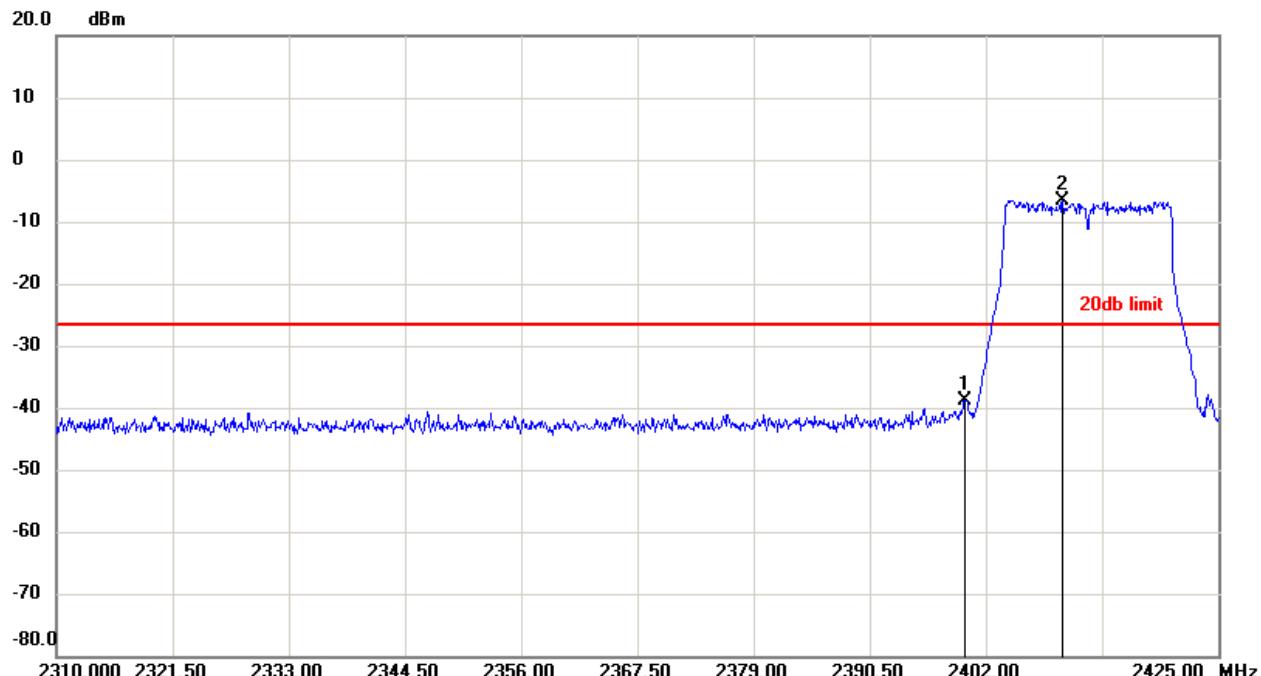
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2392.1100	-40.03	-22.04	-17.99
2	2410.0500	-2.04	-22.04	20.00

Test mode:	802.11b	Test channel:	Highest
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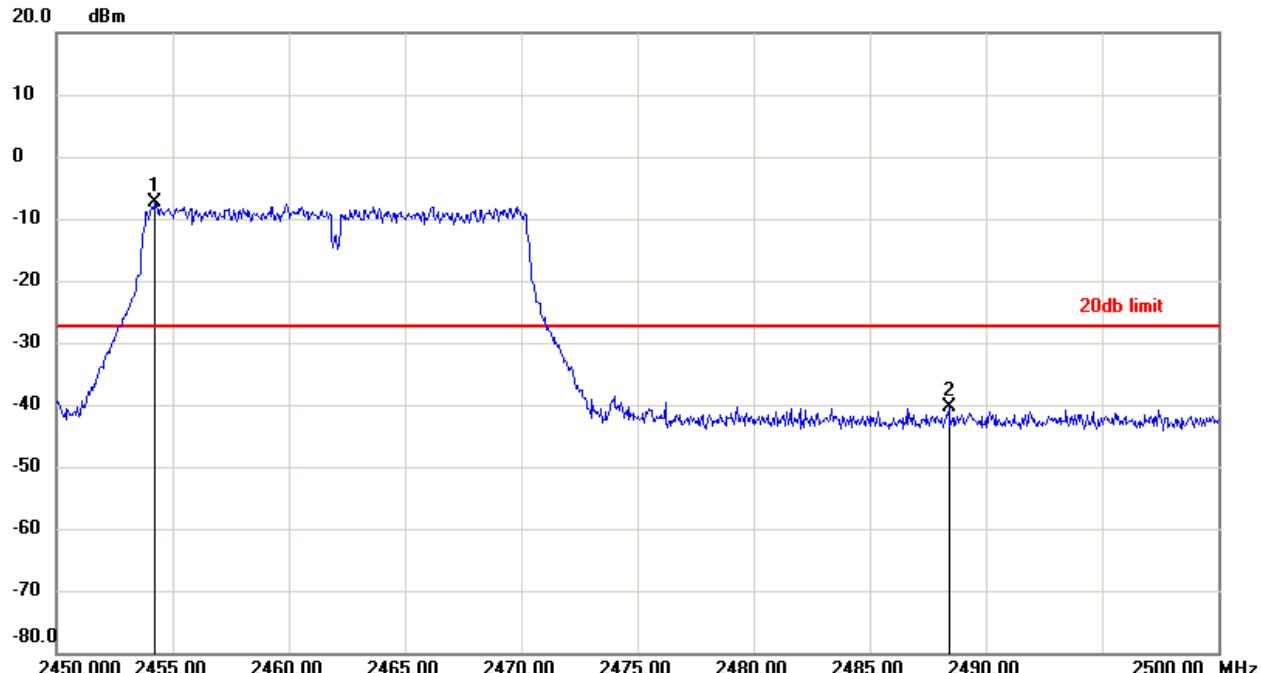
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2460.0000	-3.47	-23.47	20.00
2	2496.9000	-40.49	-23.47	-17.02

Test mode:	802.11g	Test channel:	Lowest
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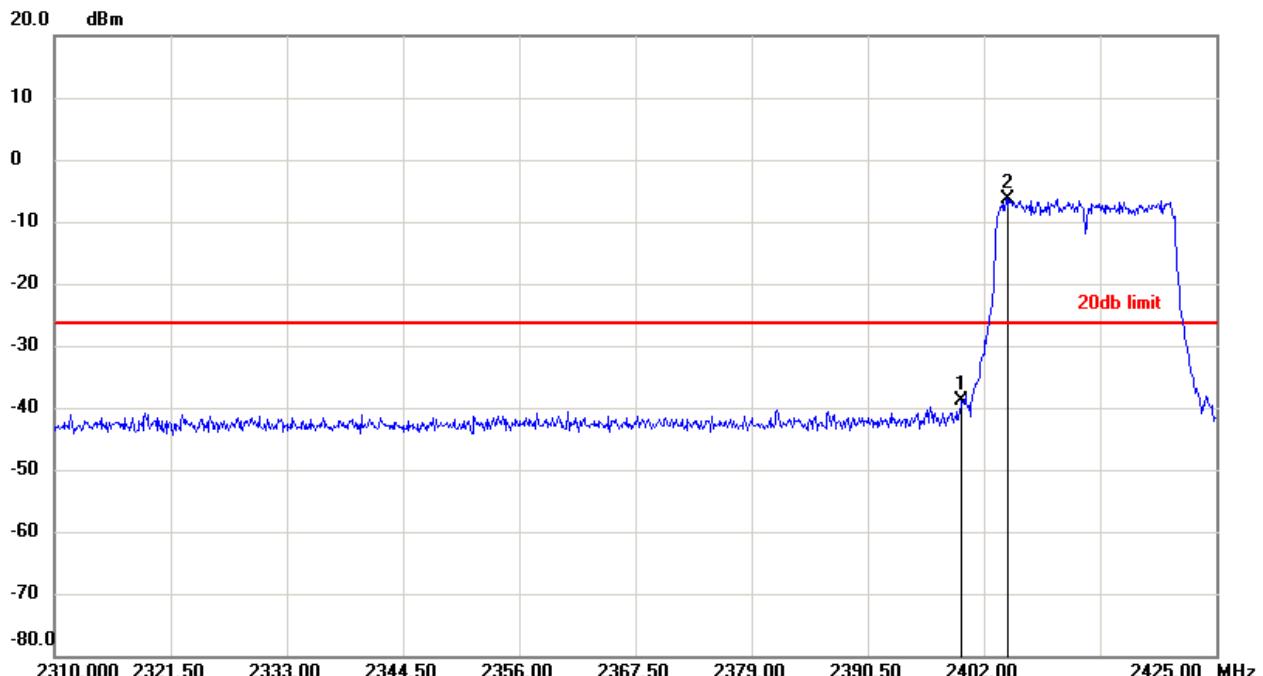
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2399.9300	-38.91	-26.53	-12.38
2	2409.5900	-6.53	-26.53	20.00

Test mode:	802.11g	Test channel:	Highest
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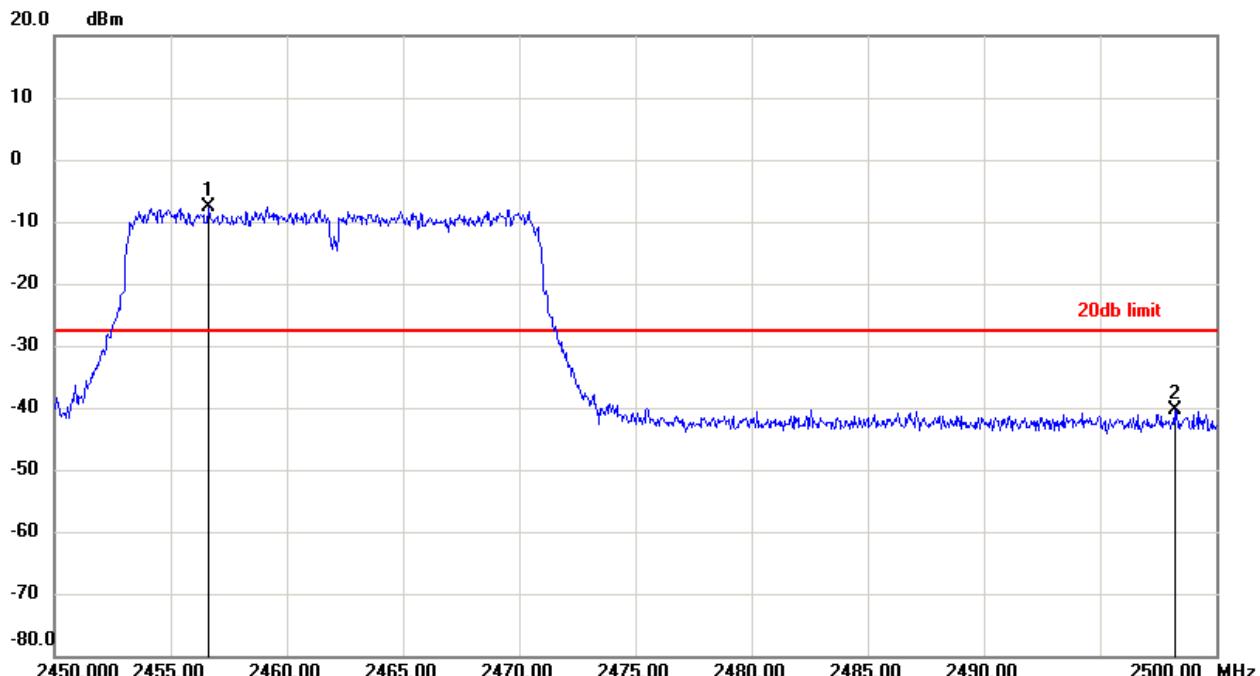
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2454.2500	-7.31	-27.31	20.00
2	2488.4000	-40.41	-27.31	-13.10

Test mode:	802.11n(HT20)	Test channel:	Lowest
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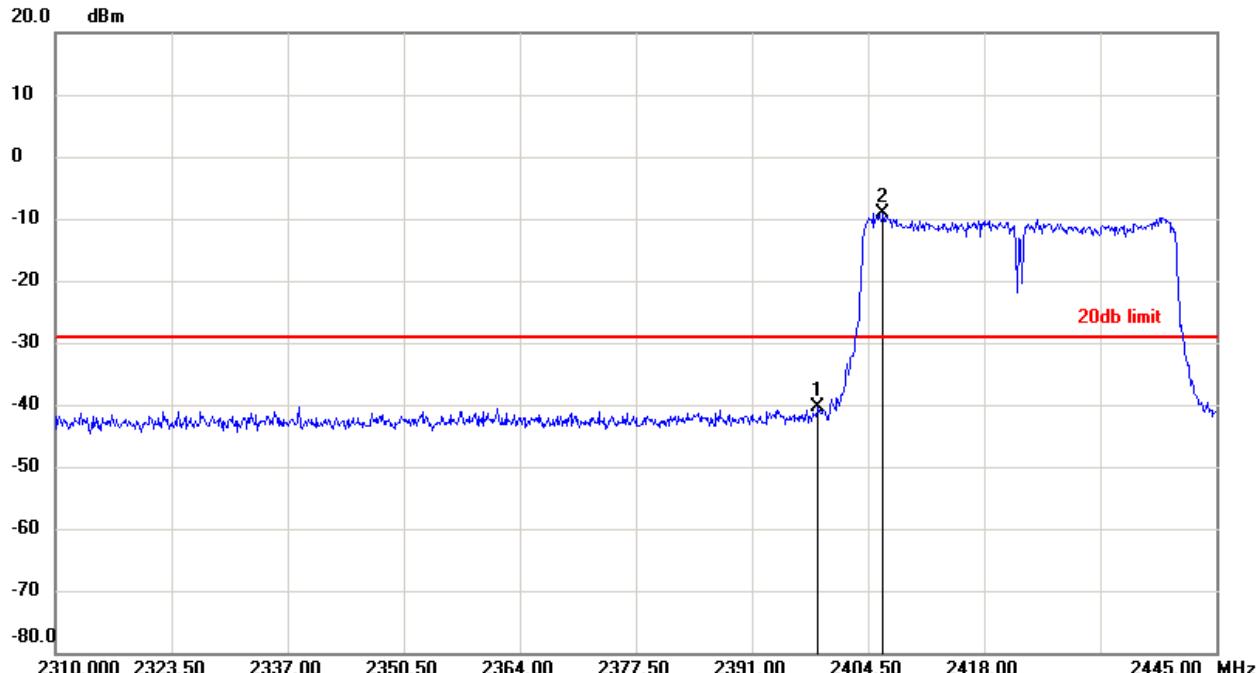
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2399.8150	-38.81	-26.41	-12.40
2	2404.3000	-6.41	-26.41	20.00

Test mode:	802.11n(HT20)	Test channel:	Highest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2456.6500	-7.68	-27.68	20.00
2	2498.2000	-40.32	-27.68	-12.64

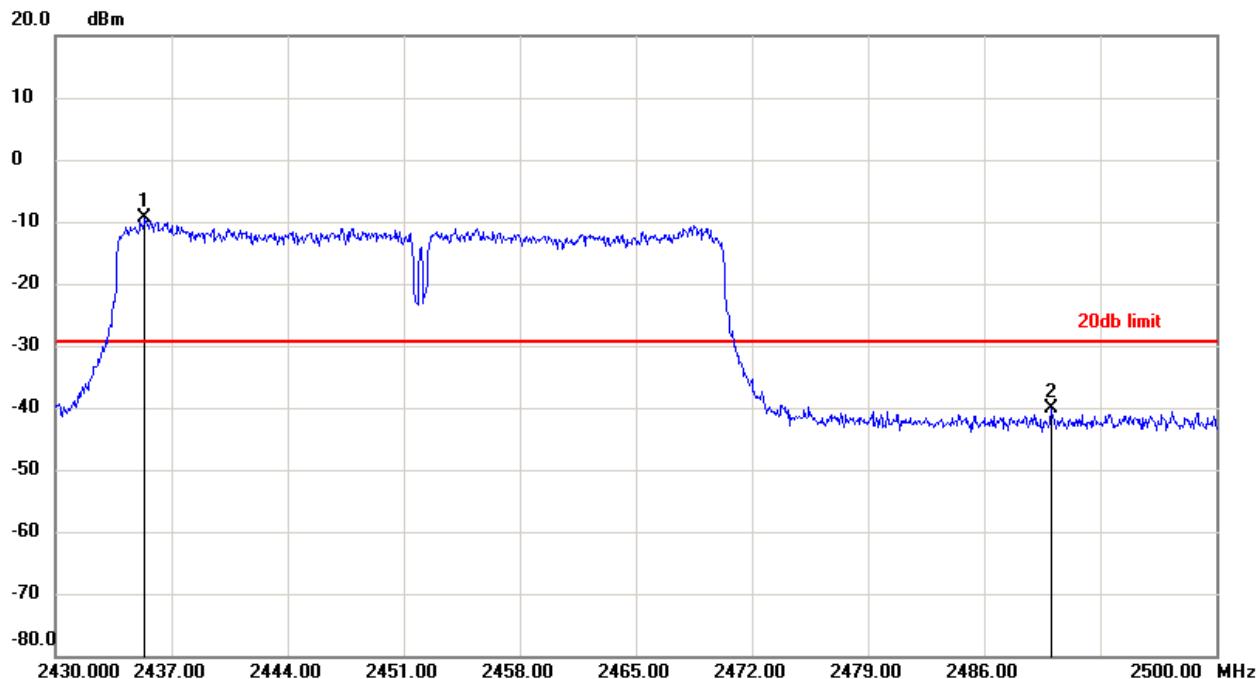
Test mode:	802.11n(HT40)	Test channel:	Lowest
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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2398.6950	-40.28	-29.15	-11.13
2	2406.2550	-9.15	-29.15	20.00

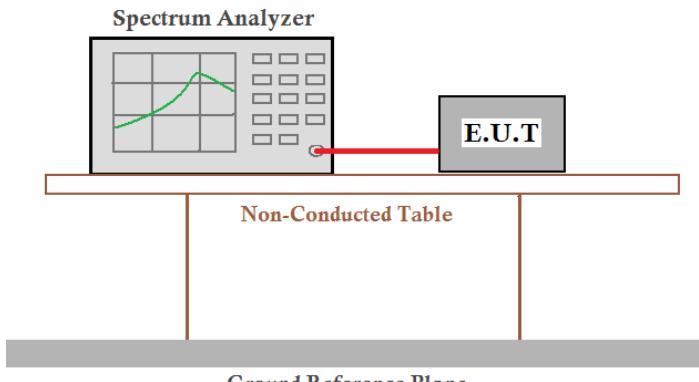


Test mode:	802.11n(HT40)	Test channel:	Highest
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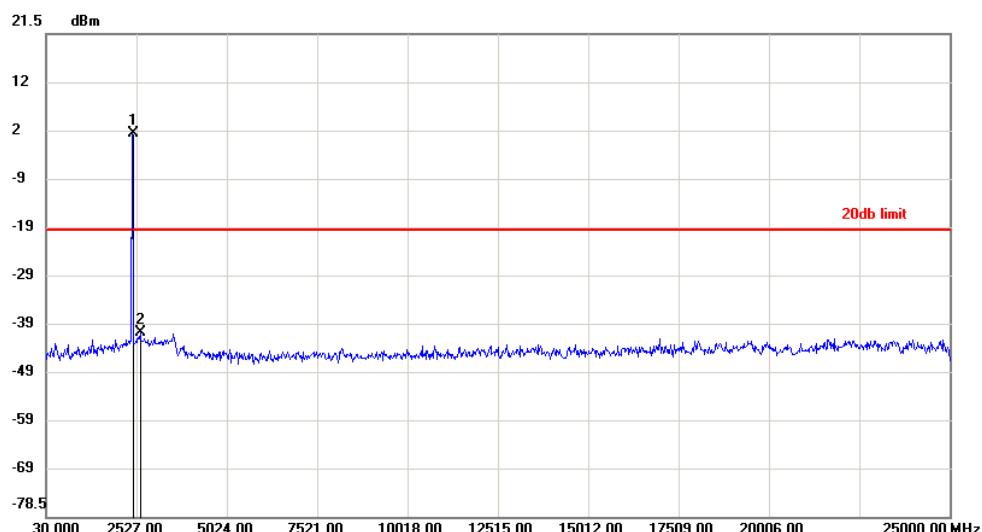
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dB)
1	2435.3900	-9.30	-29.30	20.00
2	2490.0600	-40.21	-29.30	-10.91

6.7 RF Conducted Spurious Emissions

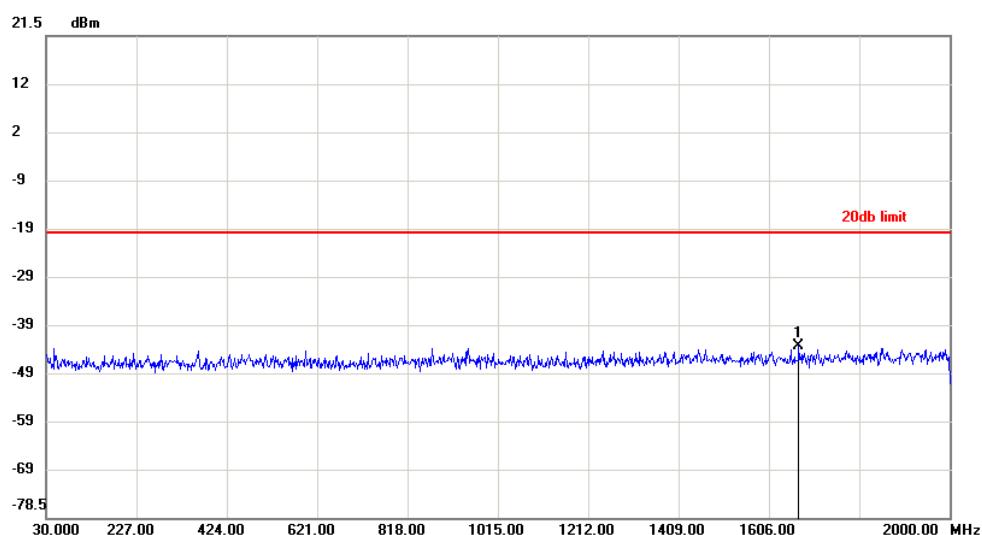
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009 KDB662911 D01Multiple Transmitter Output v02r01
Test Setup:	 <p>Remark: <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Exploratory Test Mode:	Transmitting with all kind of modulations, 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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
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
	<p>Noted: According to KDB662911 D01Multiple Transmitter Output v02r01, section E) 3) a)(iii), Final value = Measure value + 10 log(N_{ANT}).</p> <p>Where (N_{ANT}) is the number of output</p>

Test plot as follows:
Antenna 1

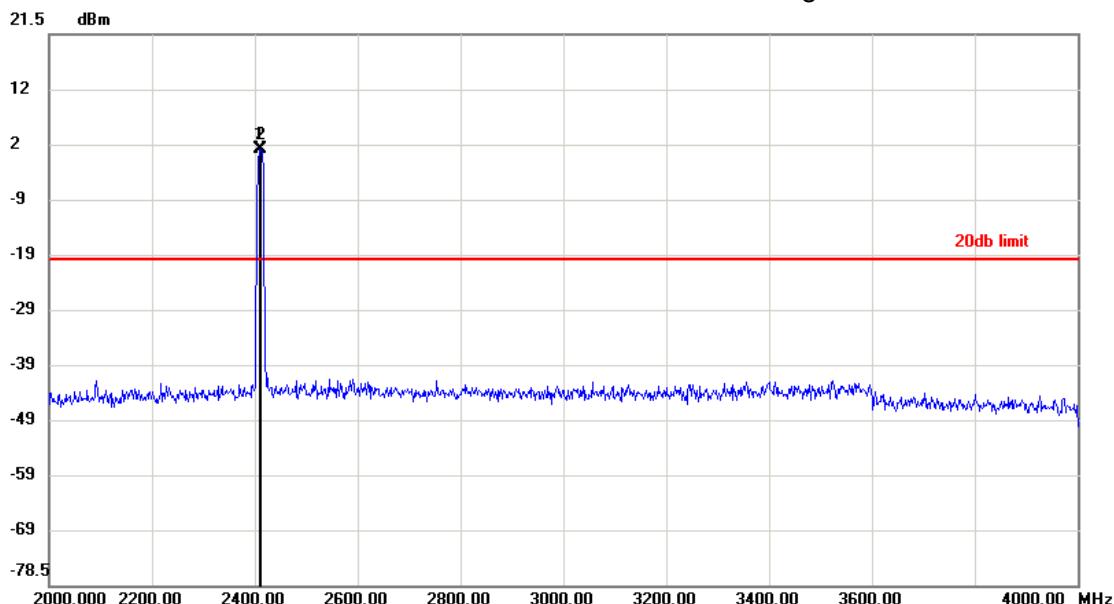
Test mode:	802.11b	Test channel:	Lowest
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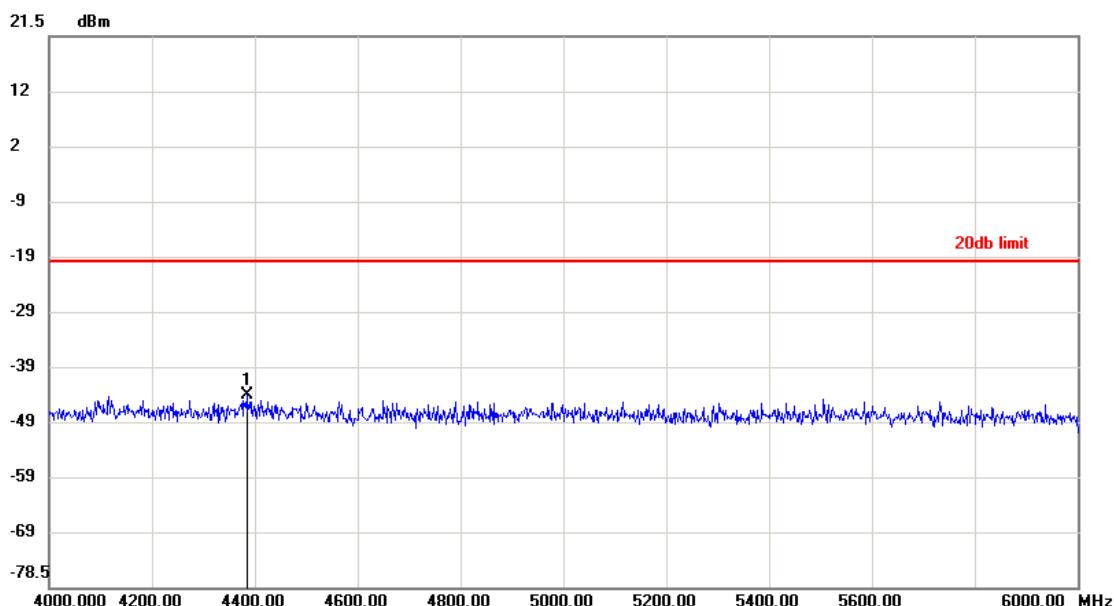
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2413.8027	0.93	-19.07	20.00
2	2631.0417	-40.35	-19.07	-21.28



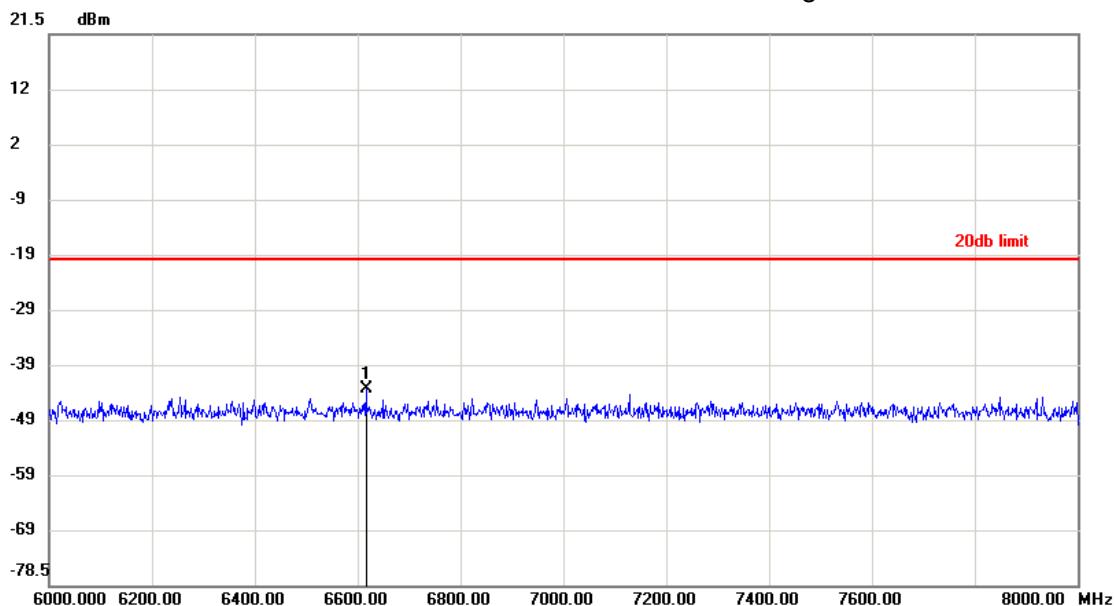
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1671.2070	-42.87	-19.41	-23.46



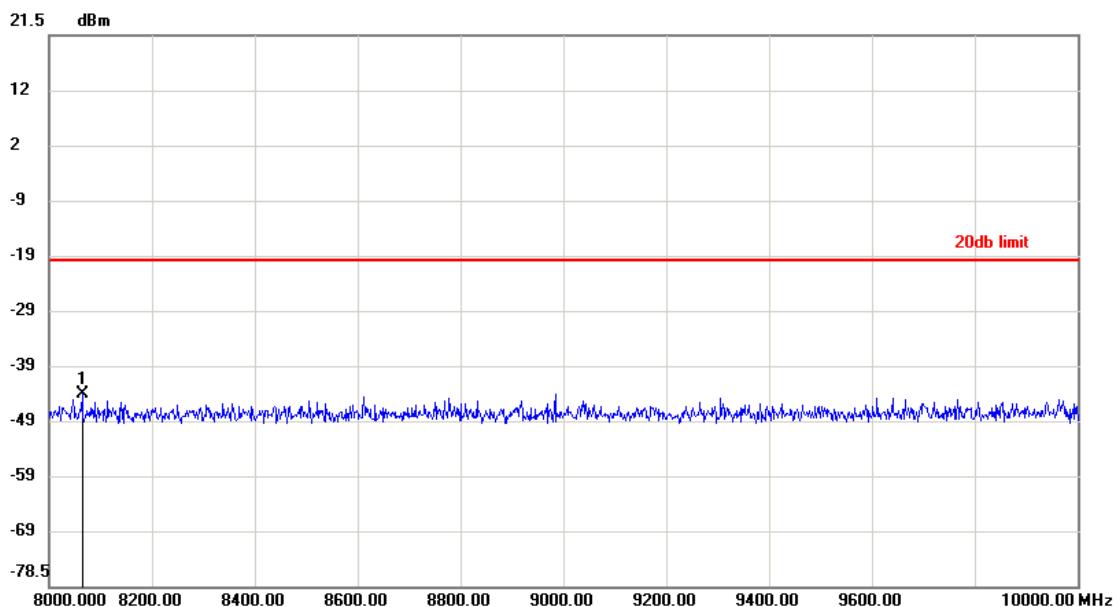
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2409.9333	0.51	-19.41	19.92
2	2412.9333	0.59	-19.41	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4384.0000	-43.54	-19.41	-24.13

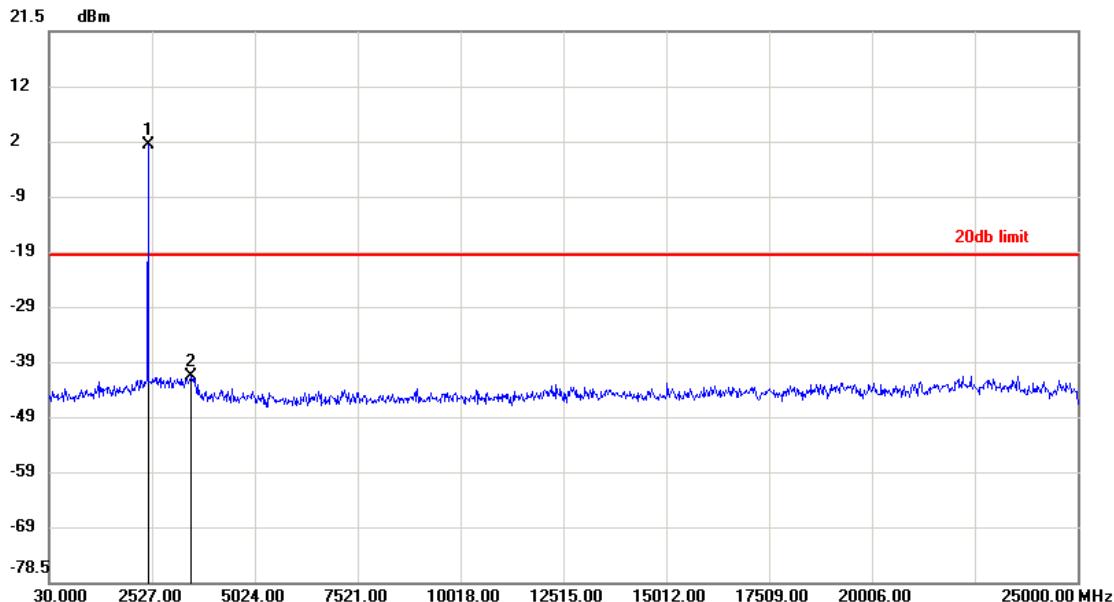


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6616.3333	-42.92	-19.41	-23.51

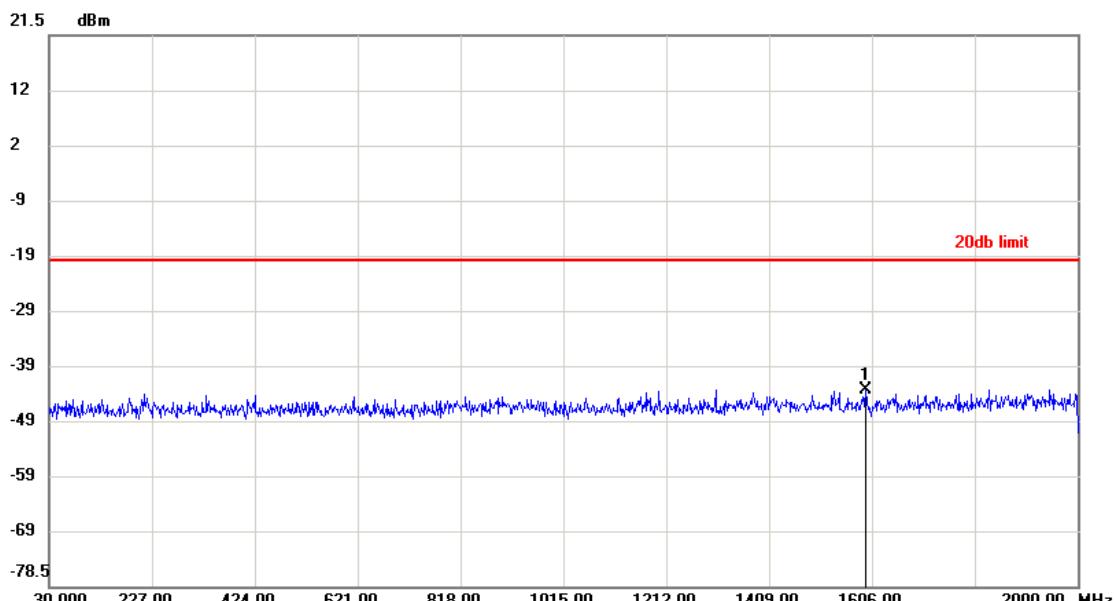


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8064.0667	-43.50	-19.41	-24.09

Test mode:	802.11b	Test channel:	Middle
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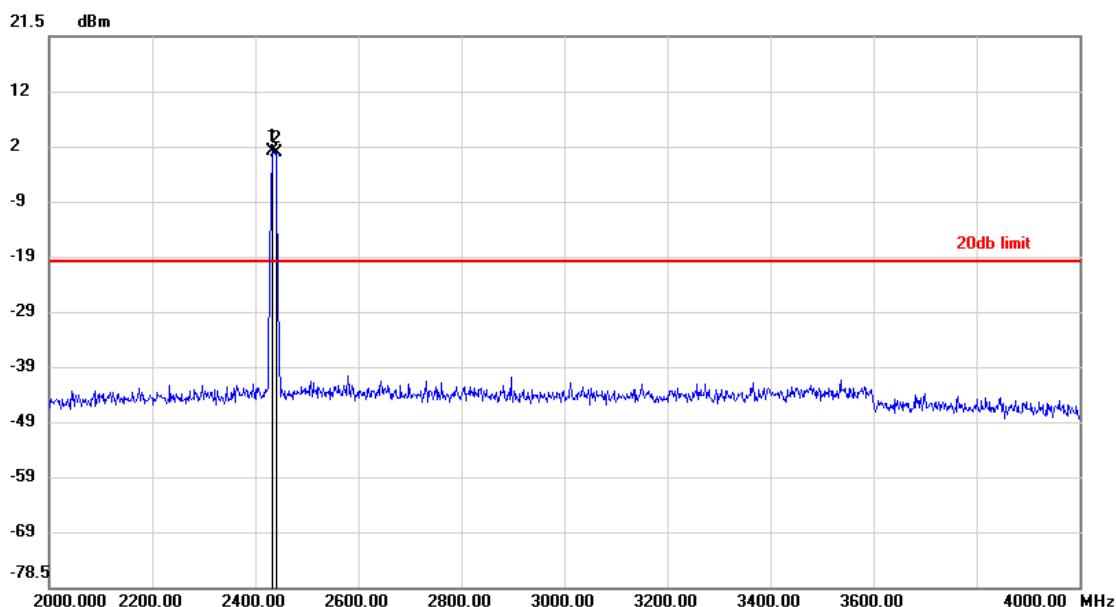


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2434.6110	0.96	-19.04	20.00
2	3491.6743	-41.03	-19.04	-21.99

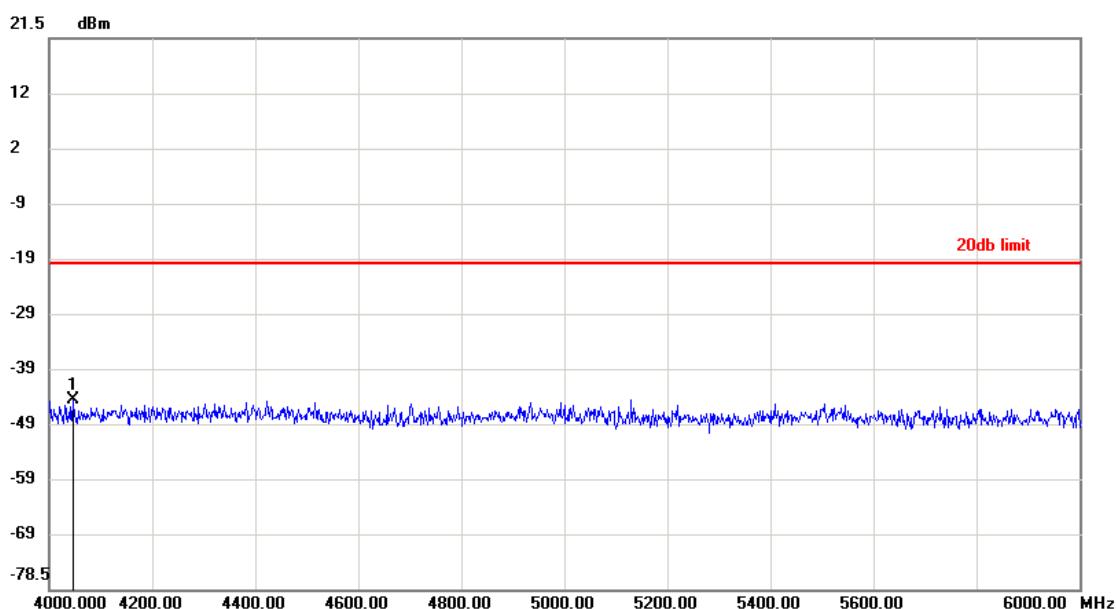


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1595.2963	-42.91	-19.29	-23.62

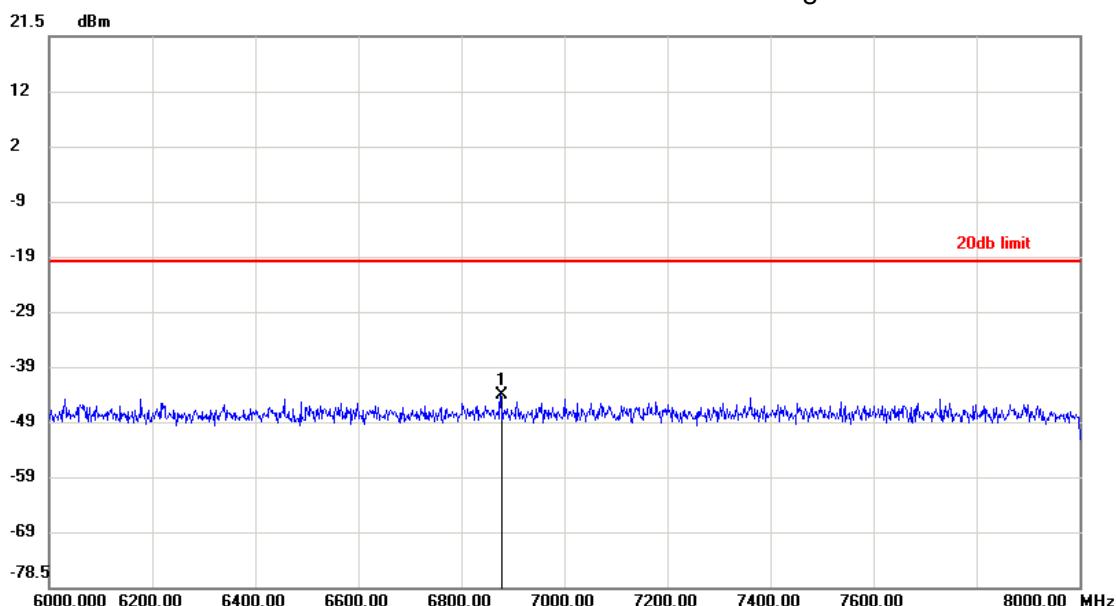
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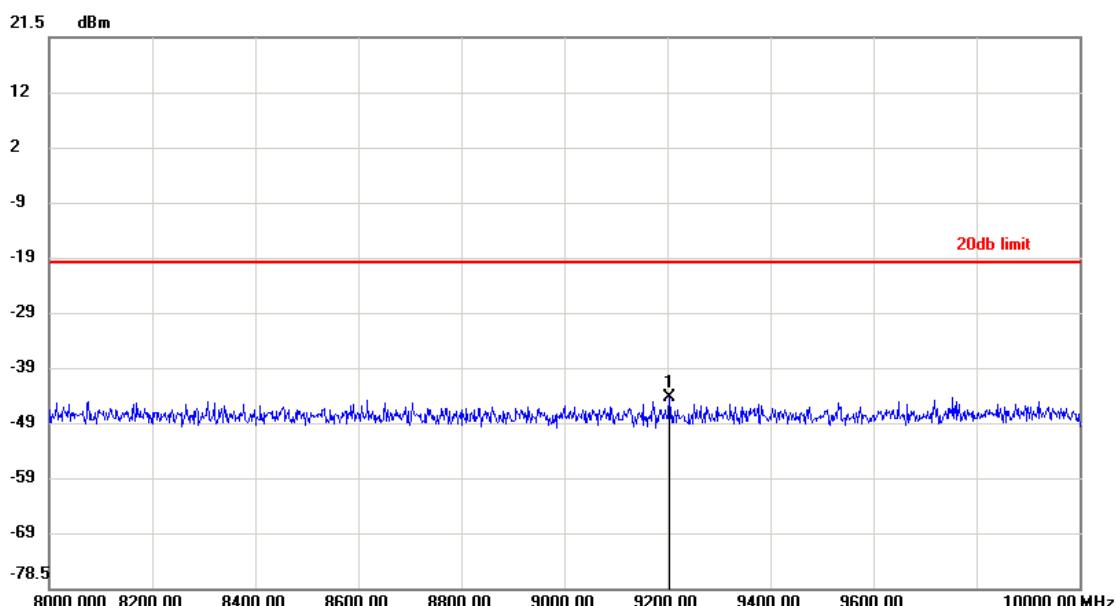
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2434.9333	0.71	-19.29	20.00
2	2440.0000	0.32	-19.29	19.61



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4046.4000	-44.19	-19.29	-24.90

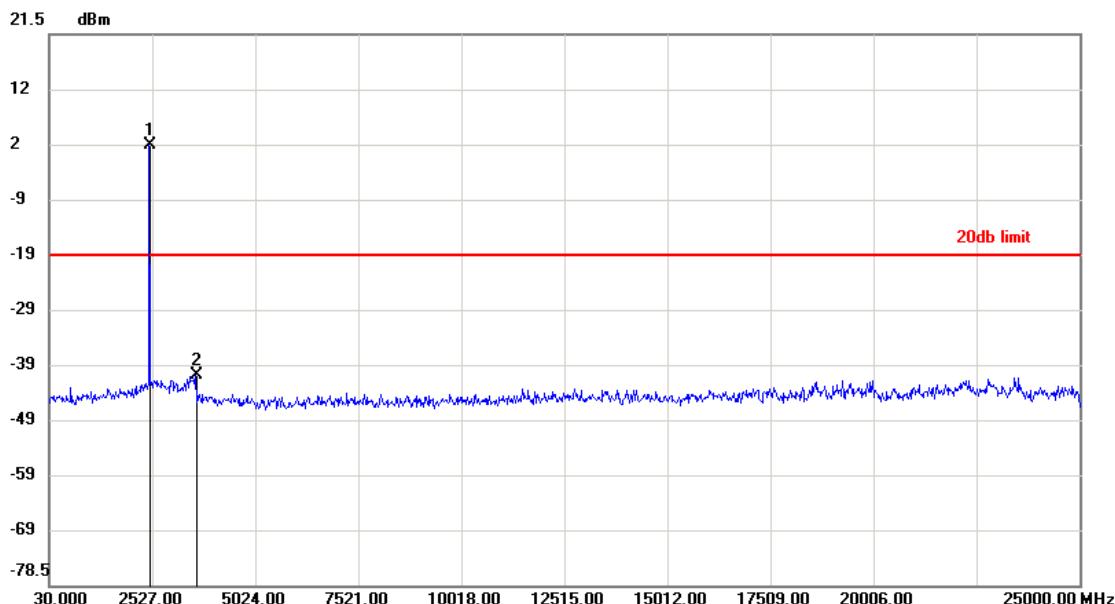


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6877.8667	-43.56	-19.29	-24.27

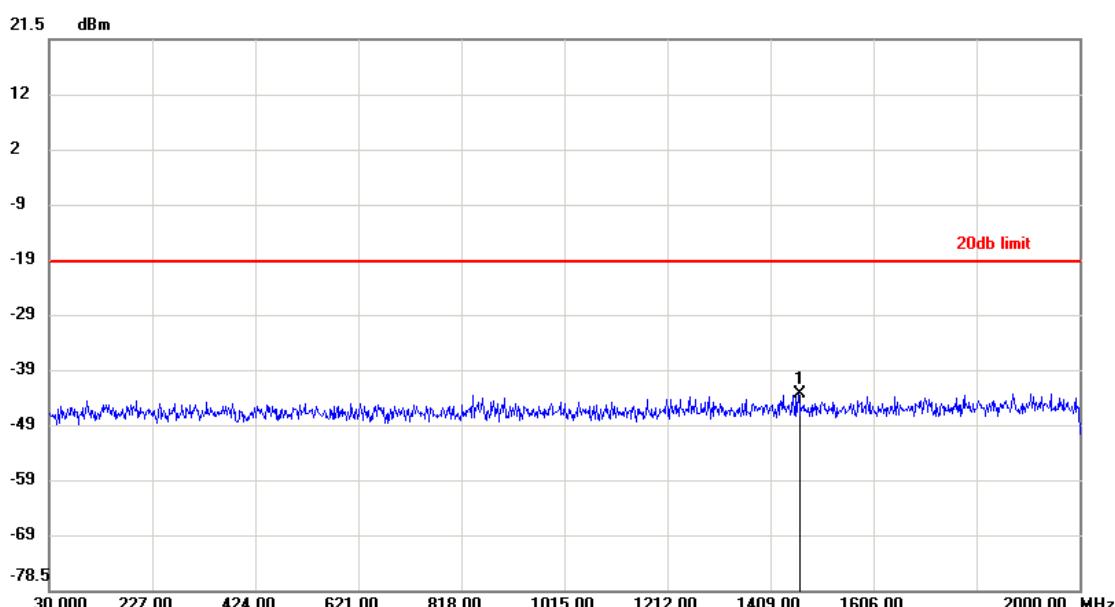


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9204.4000	-43.76	-19.29	-24.47

Test mode:	802.11b	Test channel:	Highest
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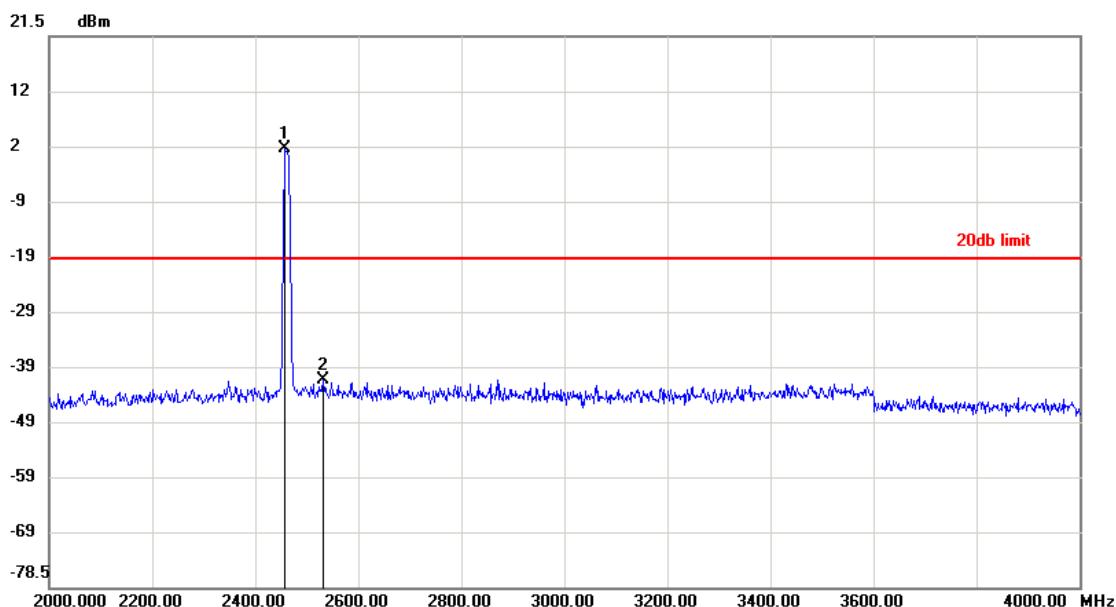


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2463.7427	1.33	-18.67	20.00
2	3587.3927	-40.27	-18.67	-21.60

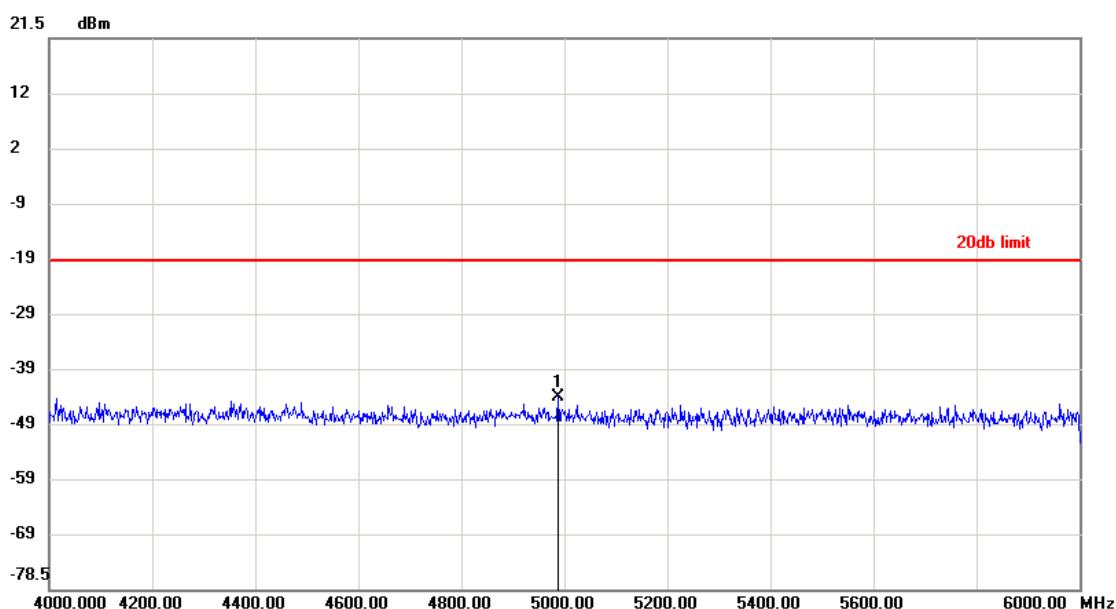


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1463.0437	-42.76	-18.79	-23.97

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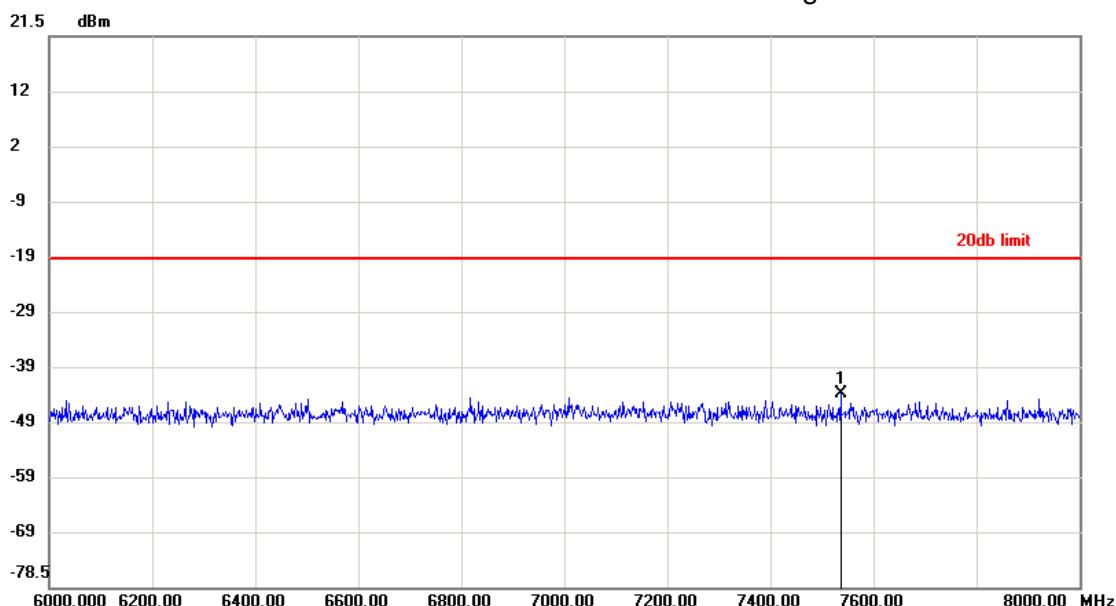


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.9333	1.21	-18.79	20.00
2	2533.4000	-40.86	-18.79	-22.07

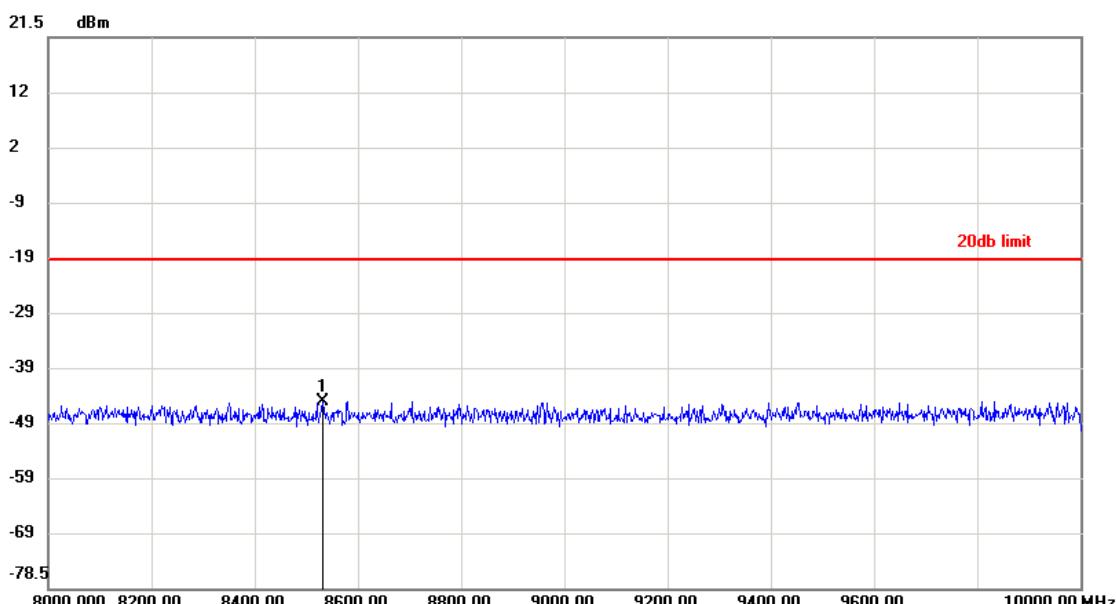


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4989.8000	-43.63	-18.79	-24.84



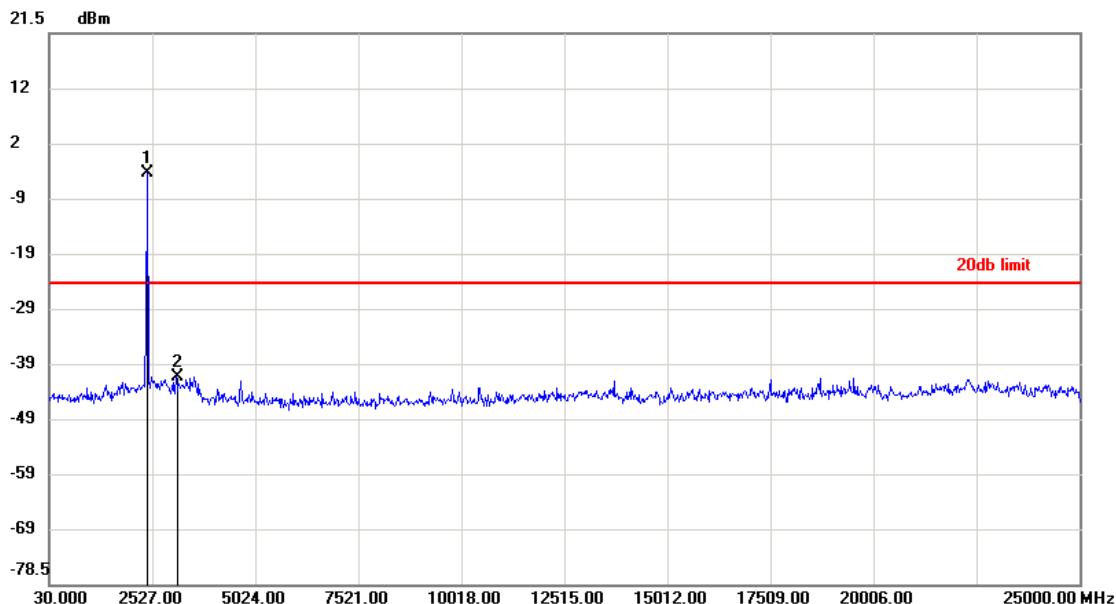


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7537.5333	-43.26	-18.79	-24.47

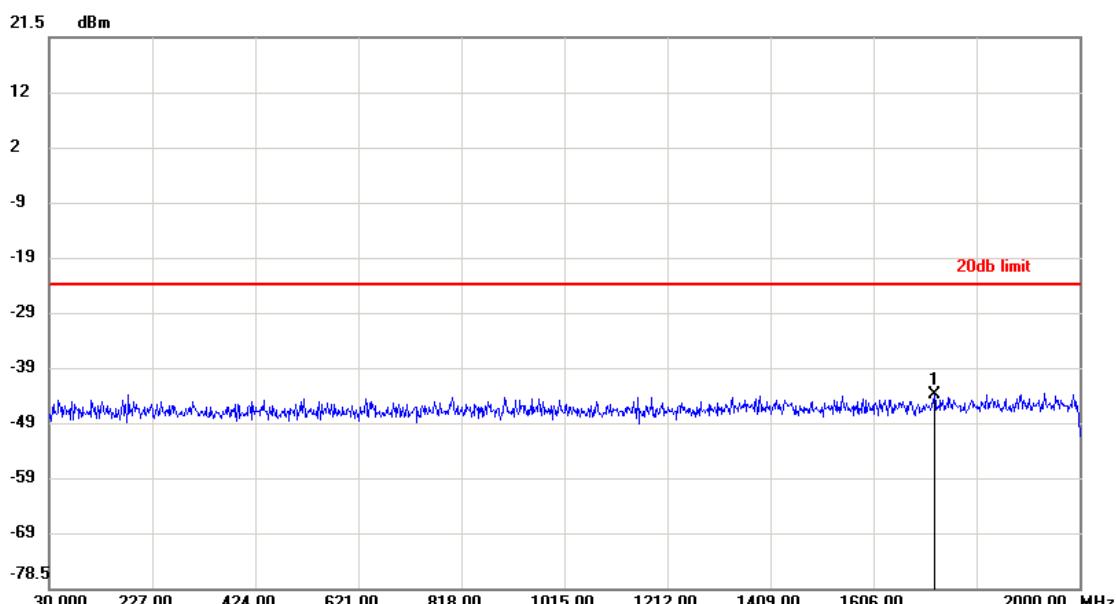


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8533.0000	-44.52	-18.79	-25.73

Test mode:	802.11g	Test channel:	Lowest
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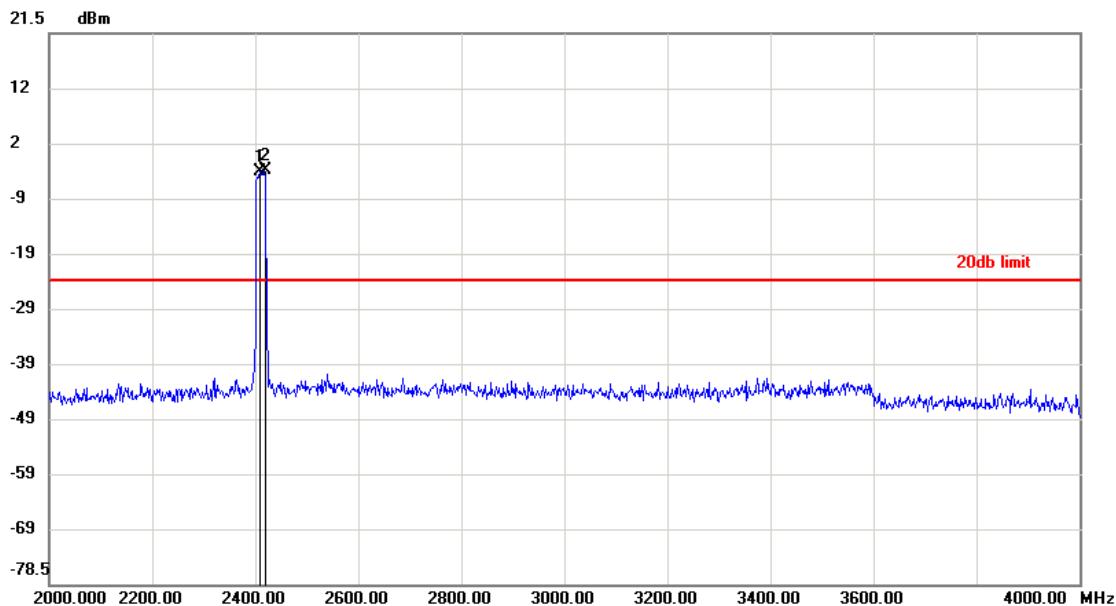


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2417.9643	-3.85	-23.85	20.00
2	3122.9507	-40.80	-23.85	-16.95

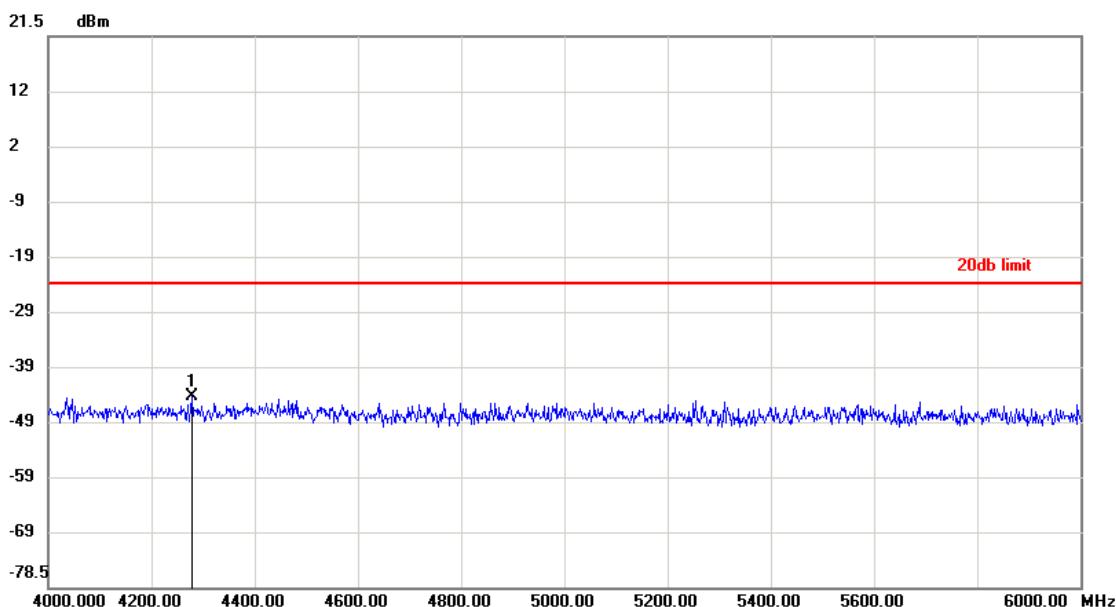


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1723.2150	-43.35	-23.39	-19.96

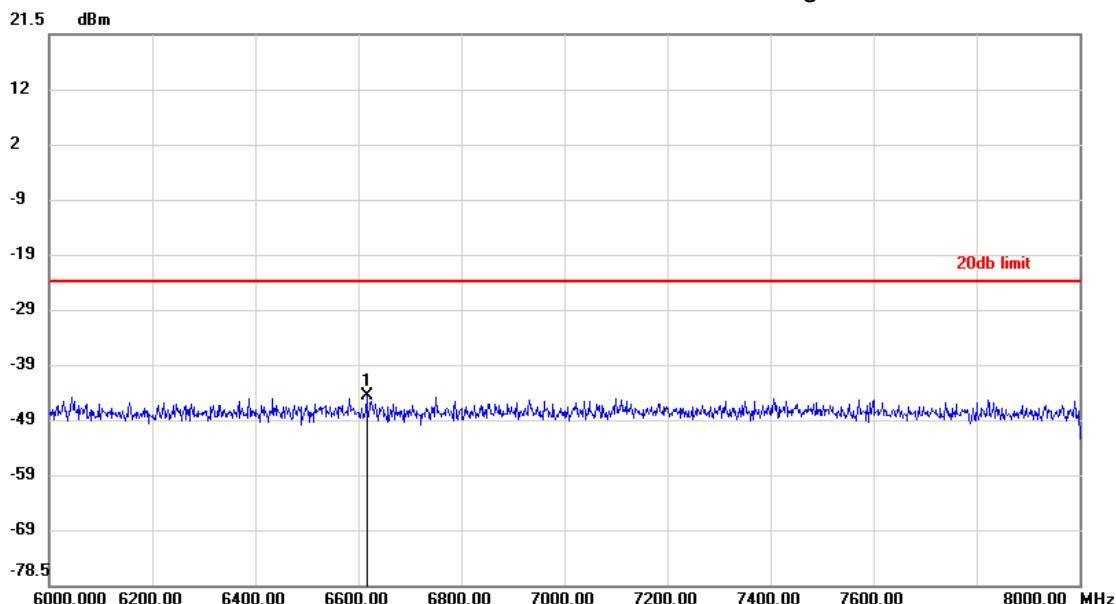
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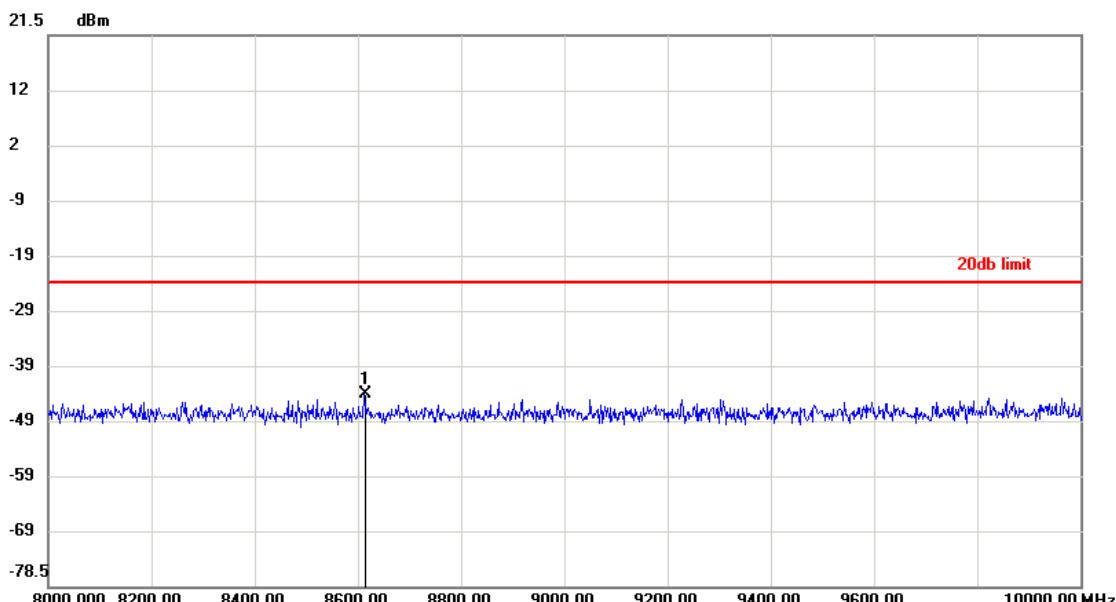
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2409.2000	-3.73	-23.39	19.66
2	2419.4667	-3.39	-23.39	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4279.0000	-43.90	-23.39	-20.51

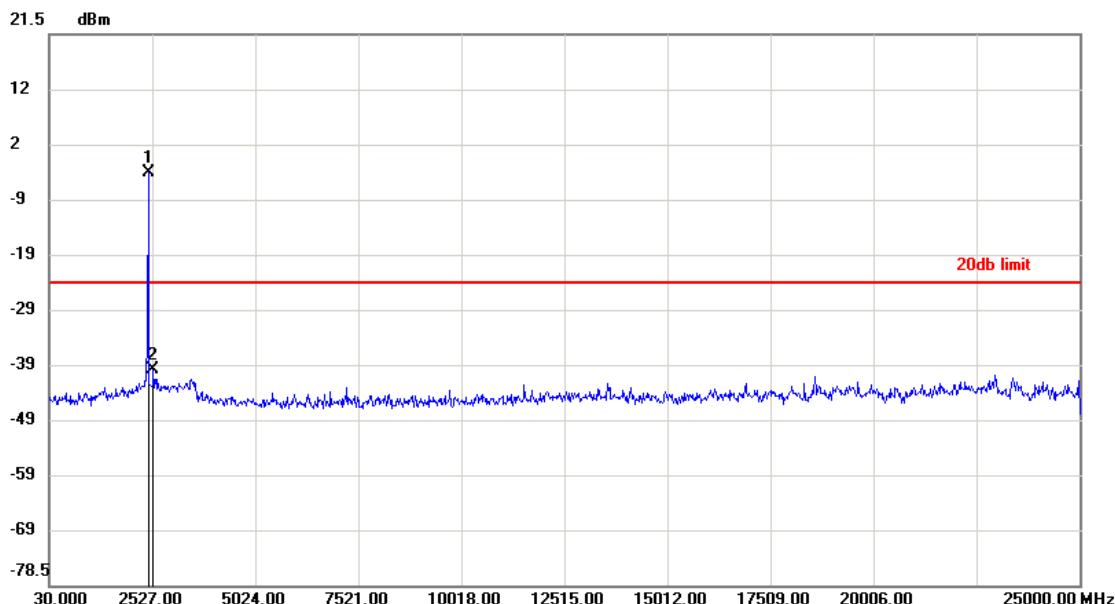


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6617.6667	-44.03	-23.39	-20.64

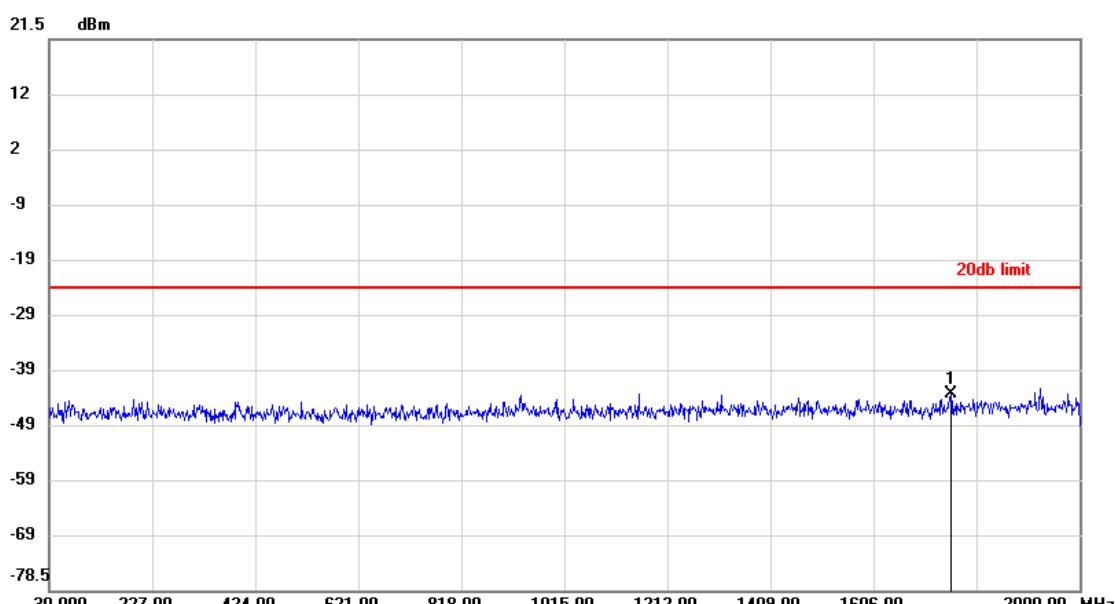


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8613.6667	-43.56	-23.39	-20.17

Test mode:	802.11g	Test channel:	Middle
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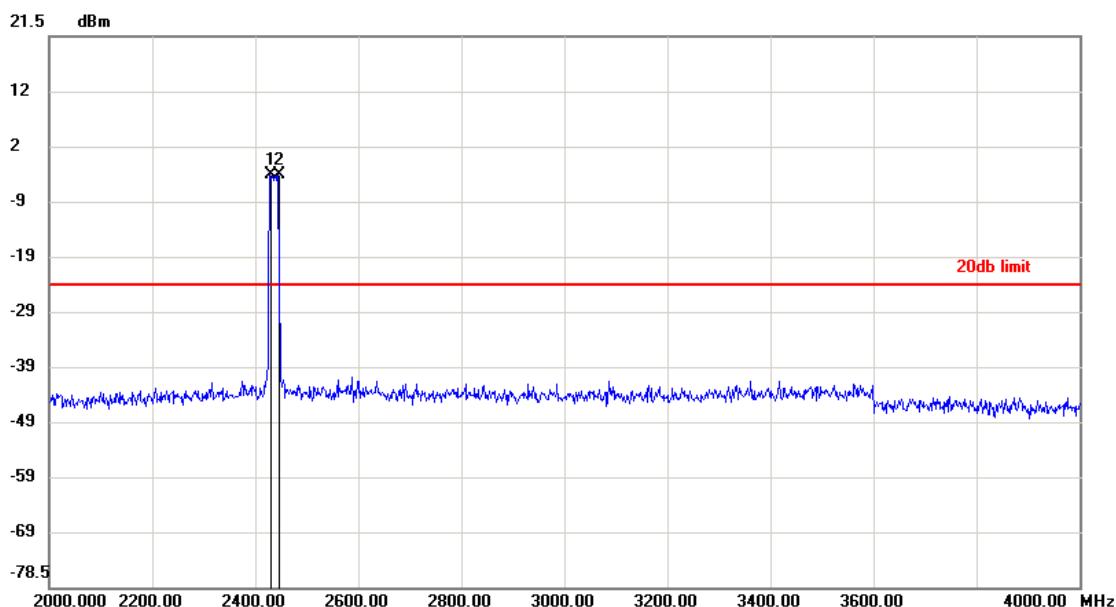


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.7847	-3.64	-23.64	20.00
2	2566.9520	-39.47	-23.64	-15.83

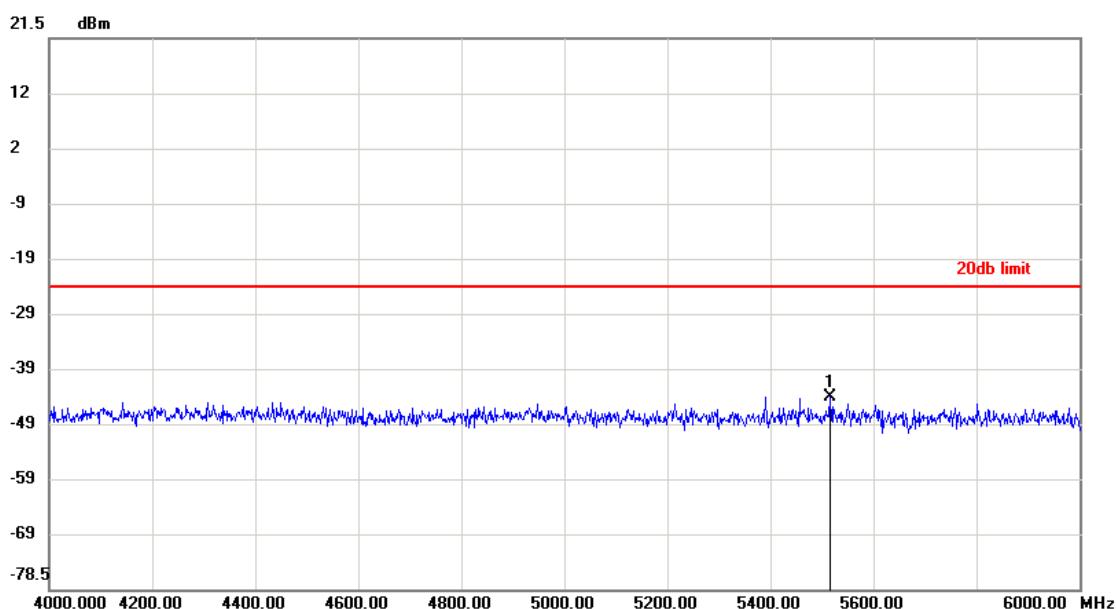


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1755.4573	-42.92	-23.51	-19.41

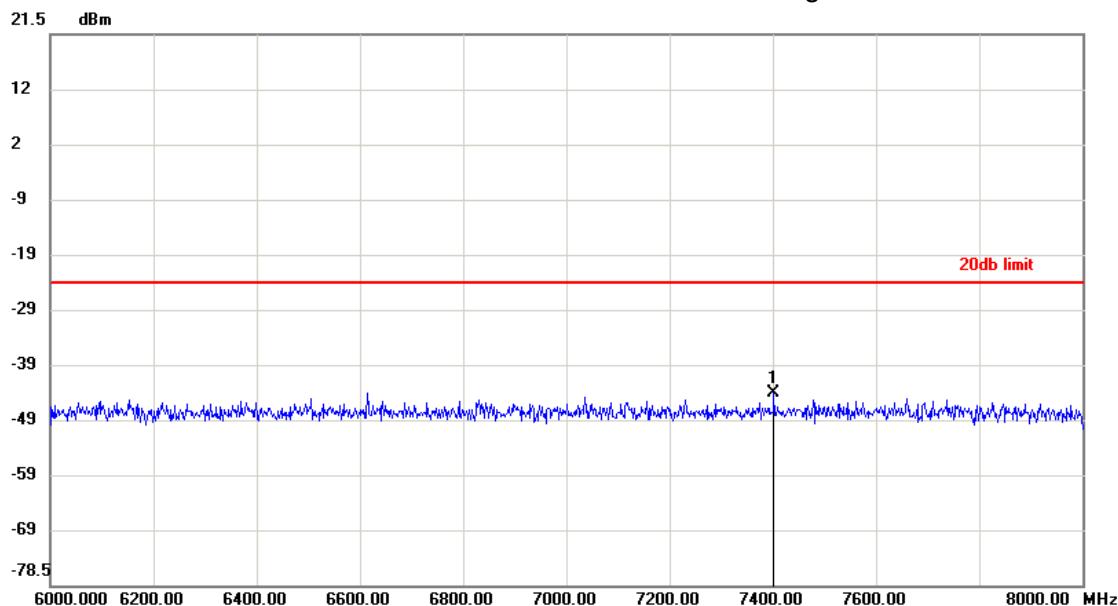
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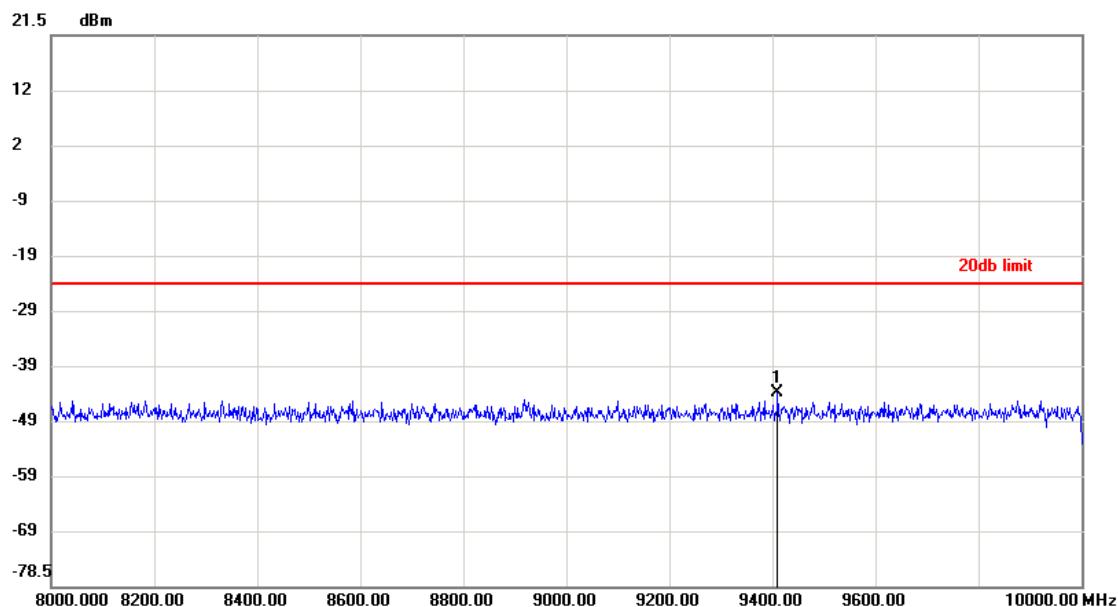
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2429.4667	-3.67	-23.51	19.84
2	2444.4667	-3.51	-23.51	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	5517.1333	-43.52	-23.51	-20.01

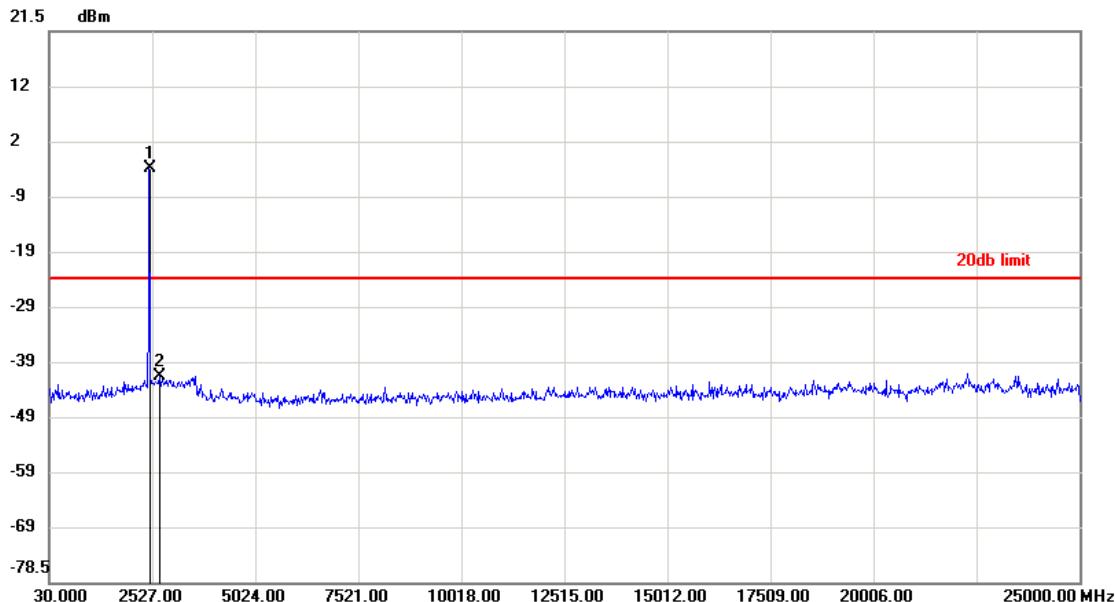


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7403.0000	-43.58	-23.51	-20.07

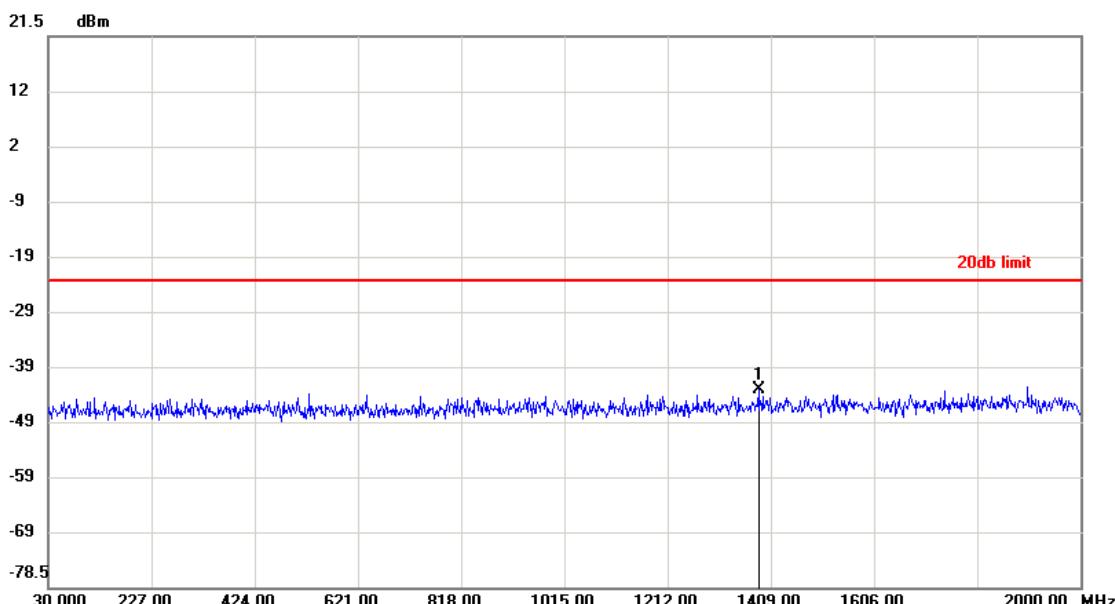


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9411.8000	-43.25	-23.51	-19.74

Test mode:	802.11g	Test channel:	Highest
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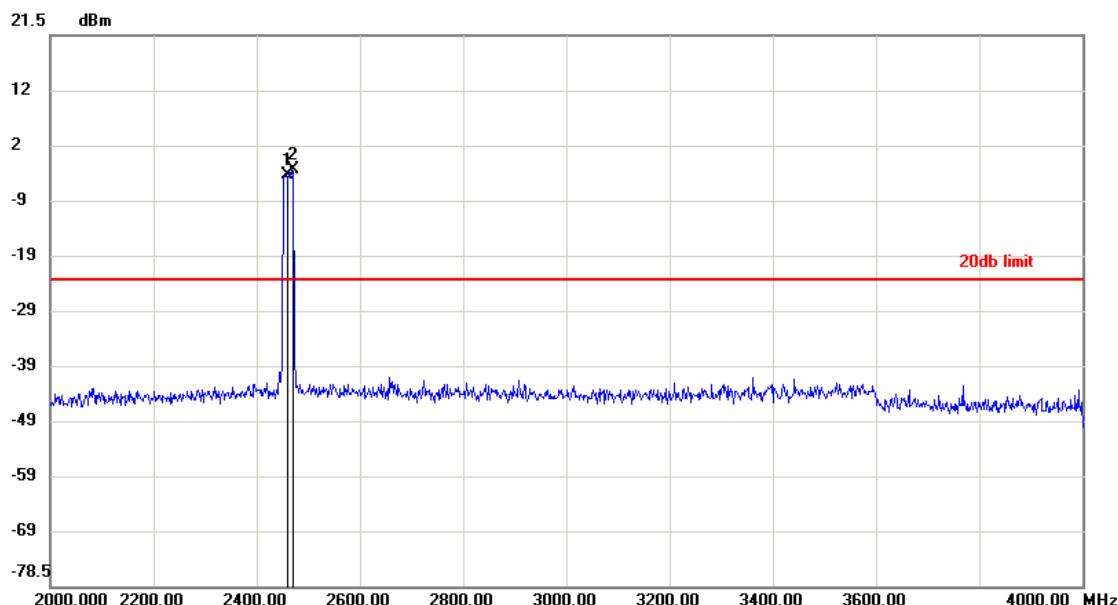


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2468.7367	-3.40	-23.40	20.00
2	2711.7780	-41.02	-23.40	-17.62

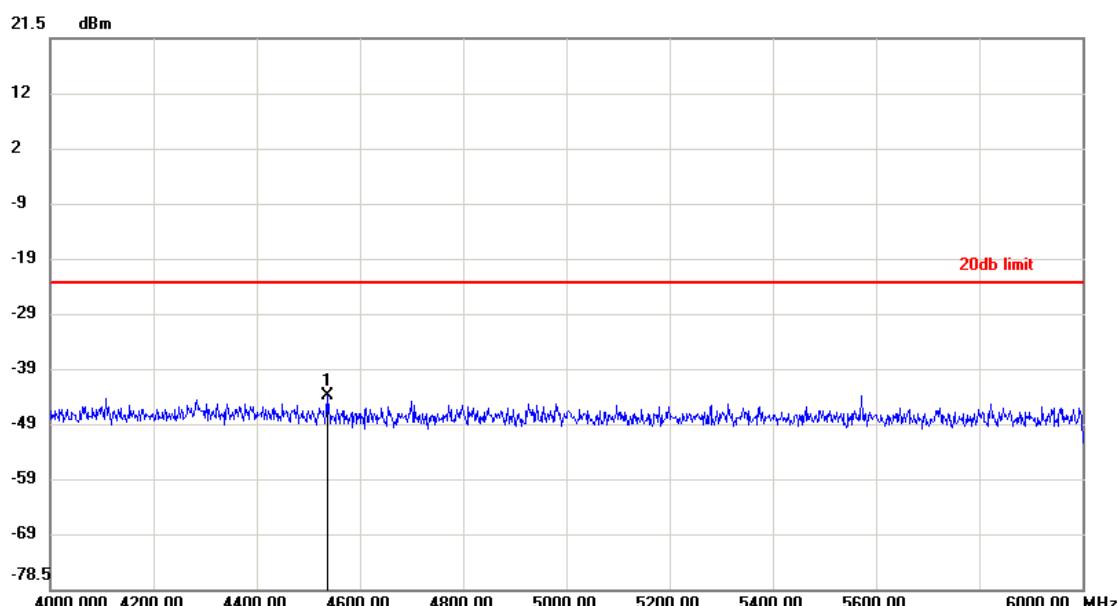


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1386.2137	-42.68	-22.95	-19.73

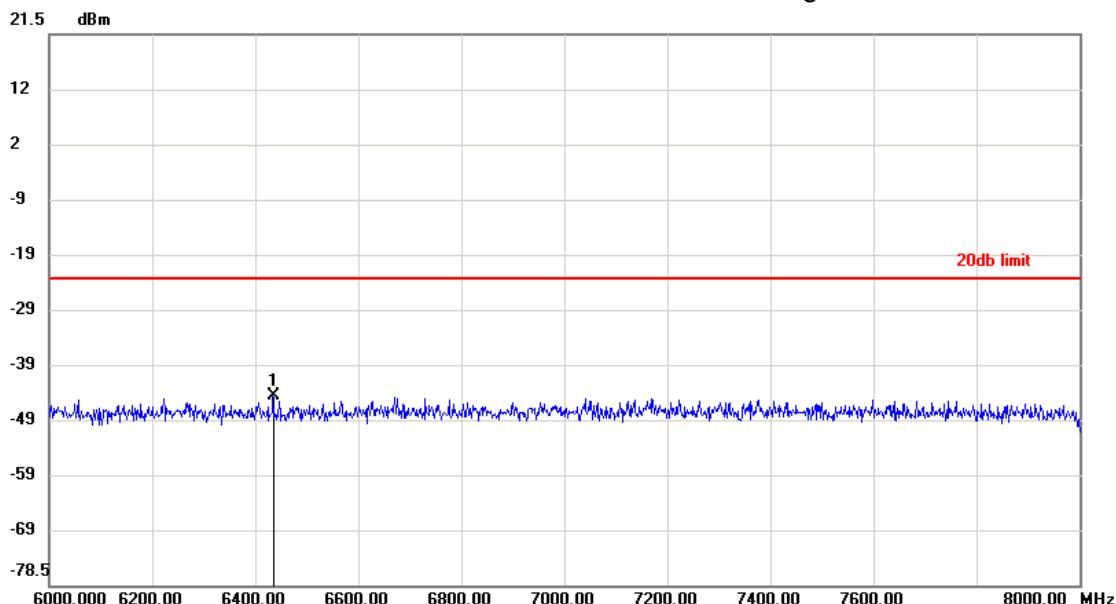
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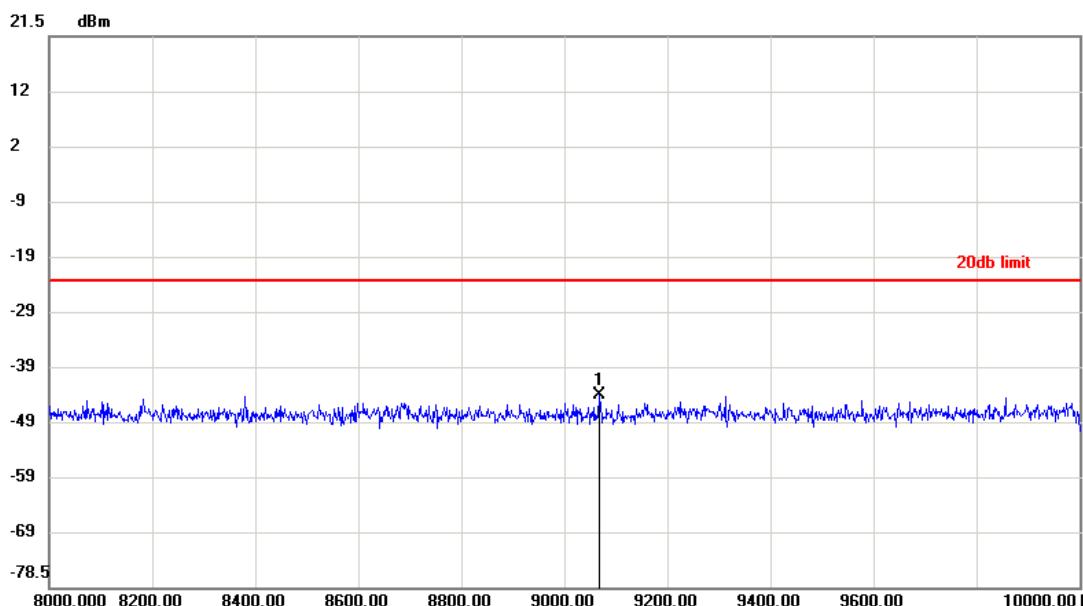
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.4667	-3.86	-22.95	19.09
2	2469.4667	-2.95	-22.95	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4537.2667	-43.44	-22.95	-20.49



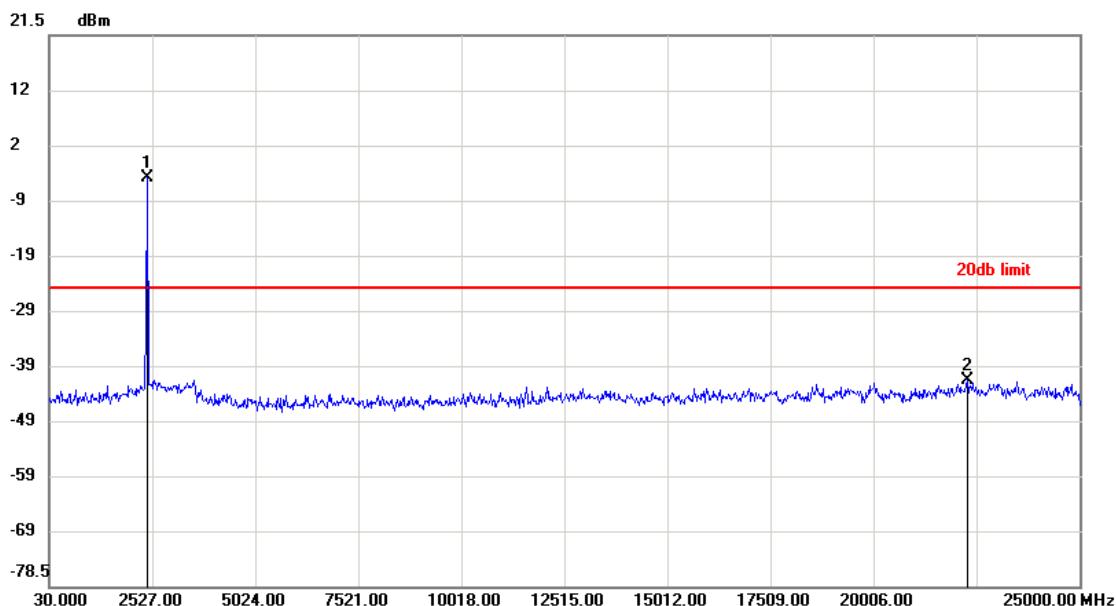
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6435.6667	-44.13	-22.95	-21.18



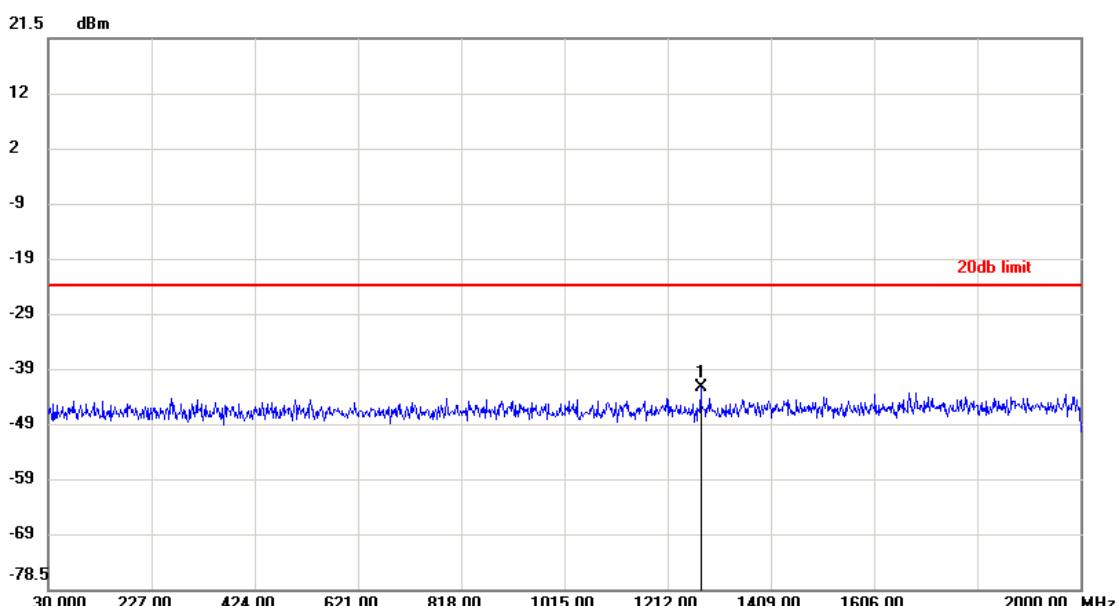
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9068.0000	-43.59	-22.95	-20.64



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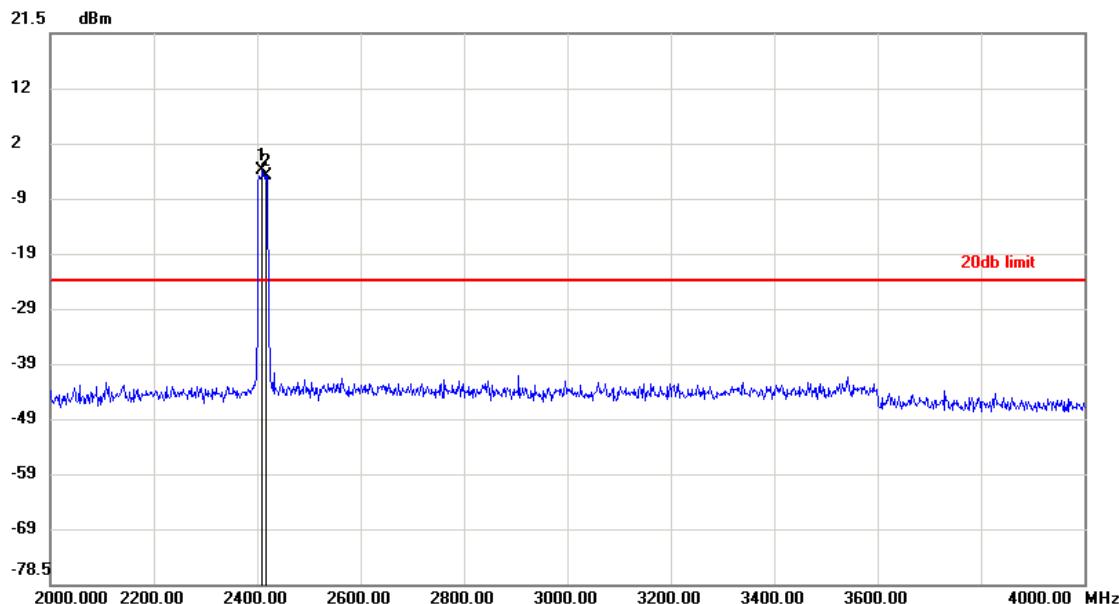


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2410.4733	-4.34	-24.34	20.00
2	22280.7670	-41.06	-24.34	-16.72

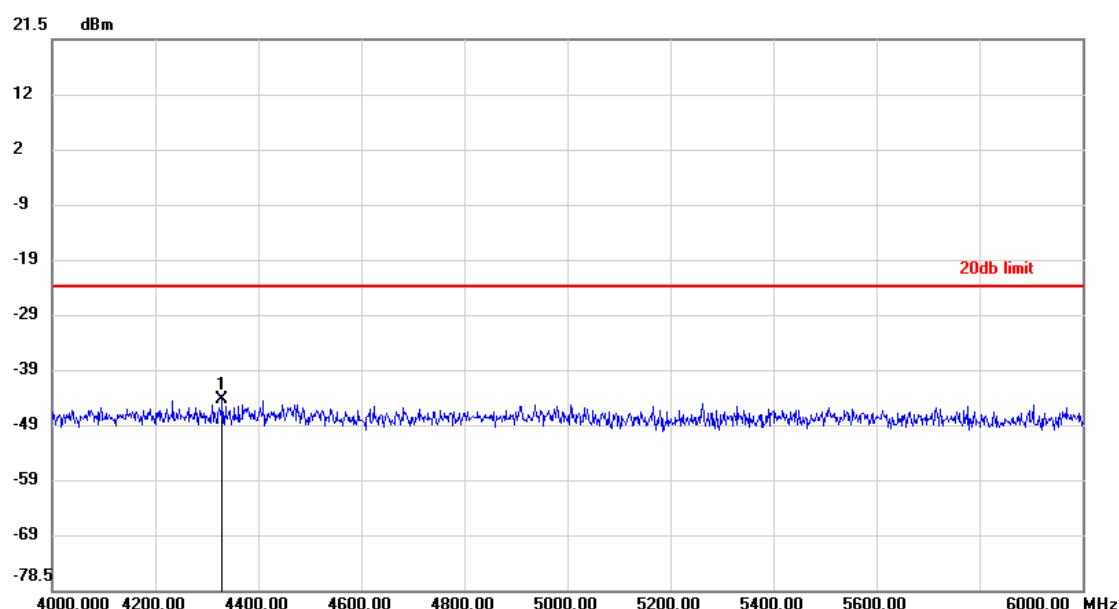


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1275.0400	-41.98	-23.37	-18.61

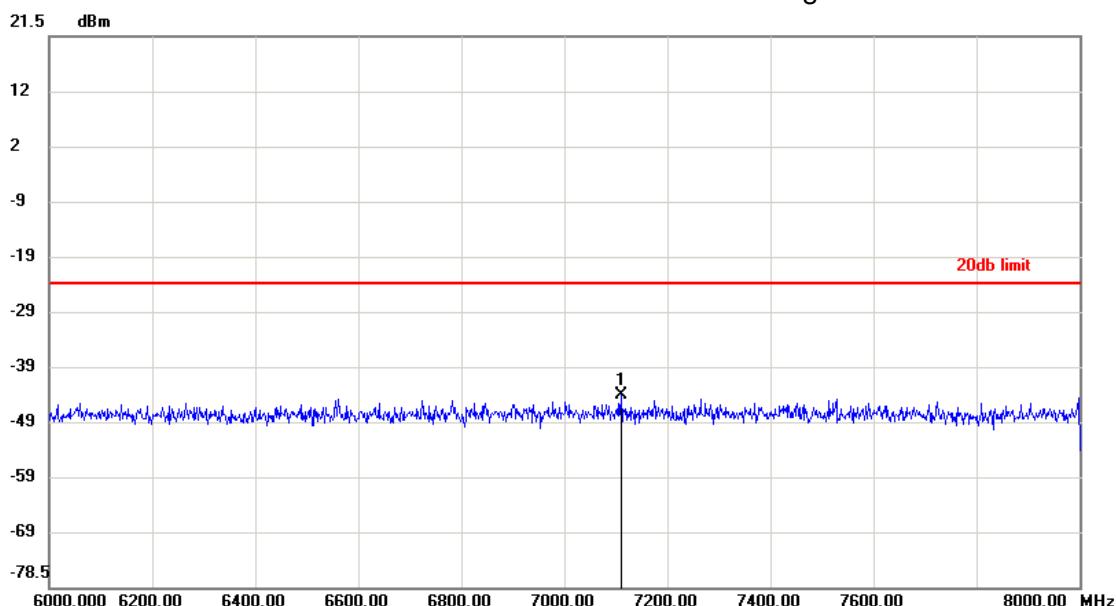
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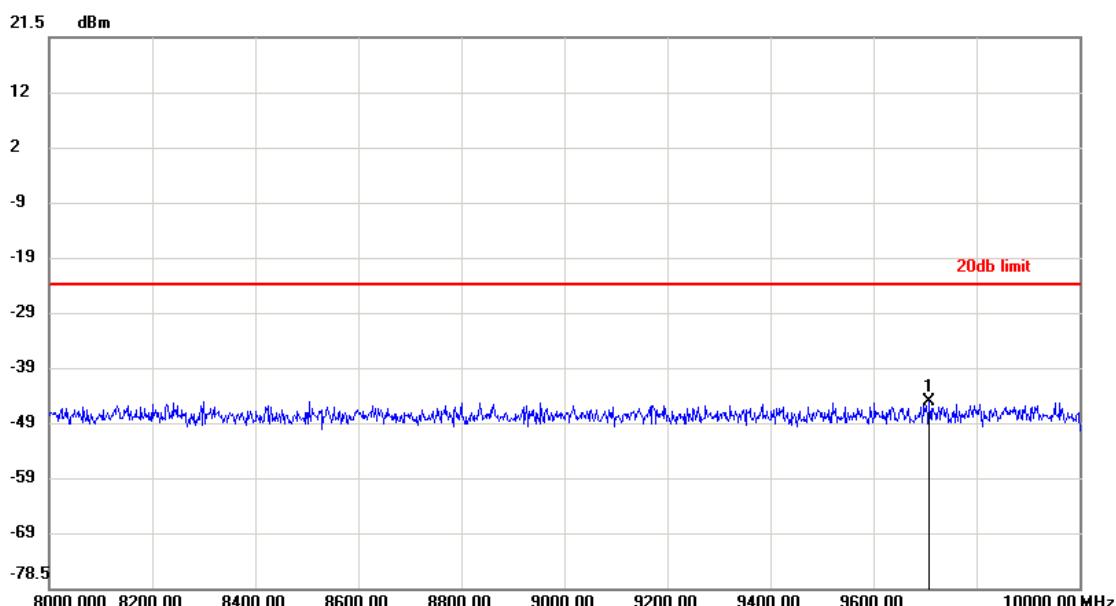
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2411.3333	-3.37	-23.37	20.00
2	2419.1333	-4.40	-23.37	18.97



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4331.5333	-43.93	-23.37	-20.56

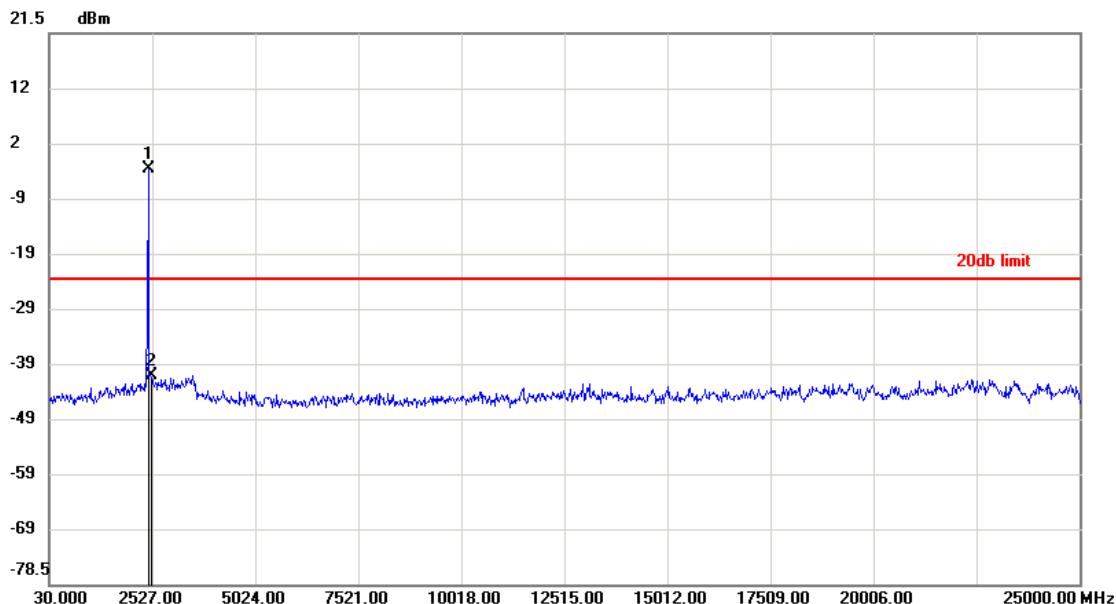


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7111.7333	-43.66	-23.37	-20.29

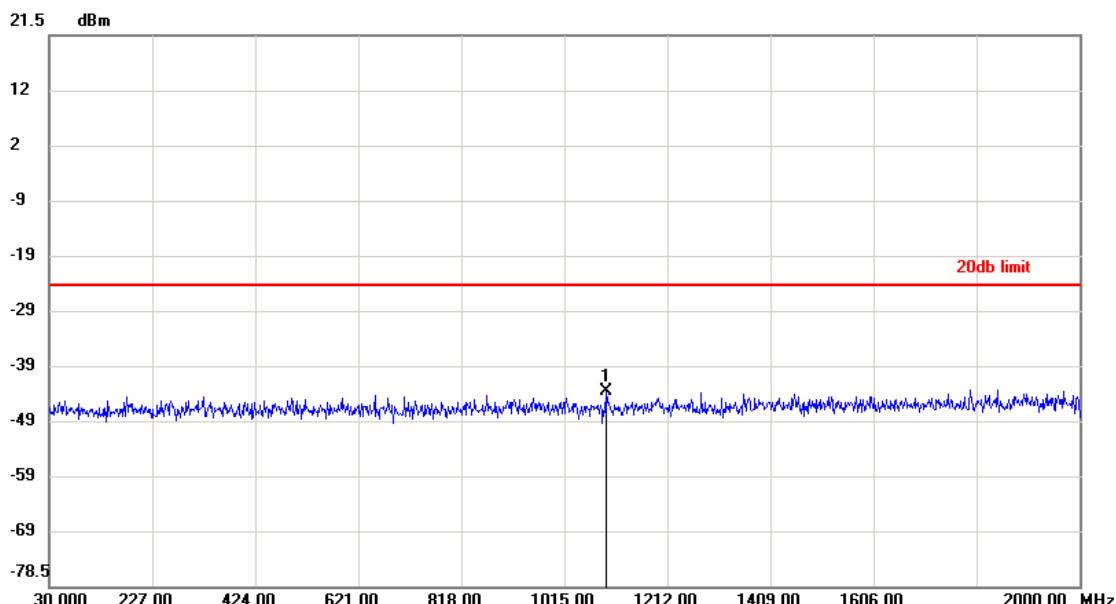


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9709.7333	-44.61	-23.37	-21.24

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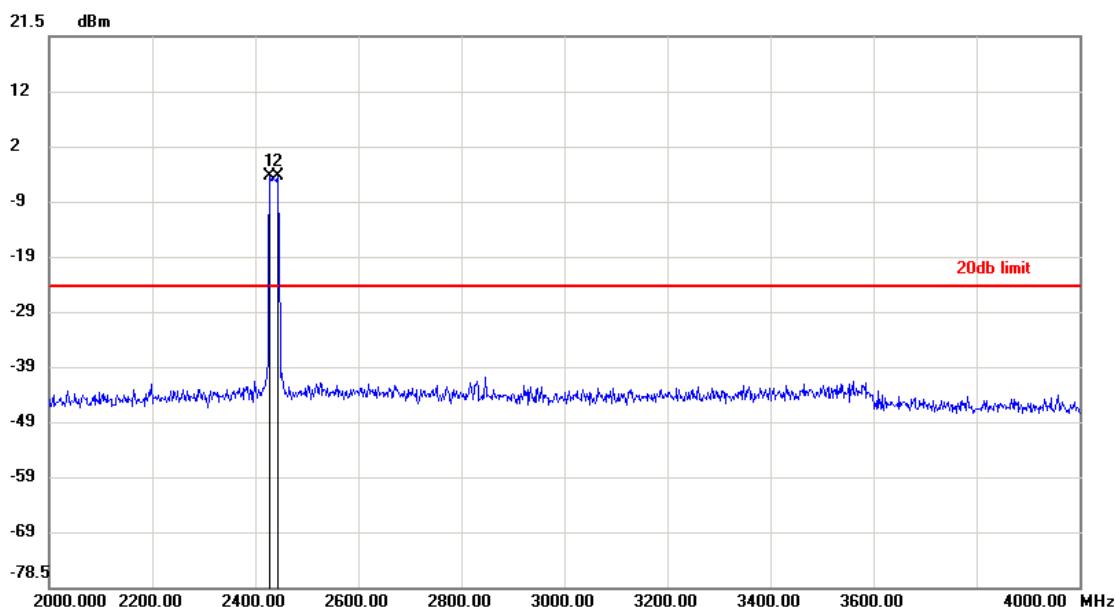


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.2817	-3.22	-23.22	20.00
2	2478.7247	-40.66	-23.22	-17.44

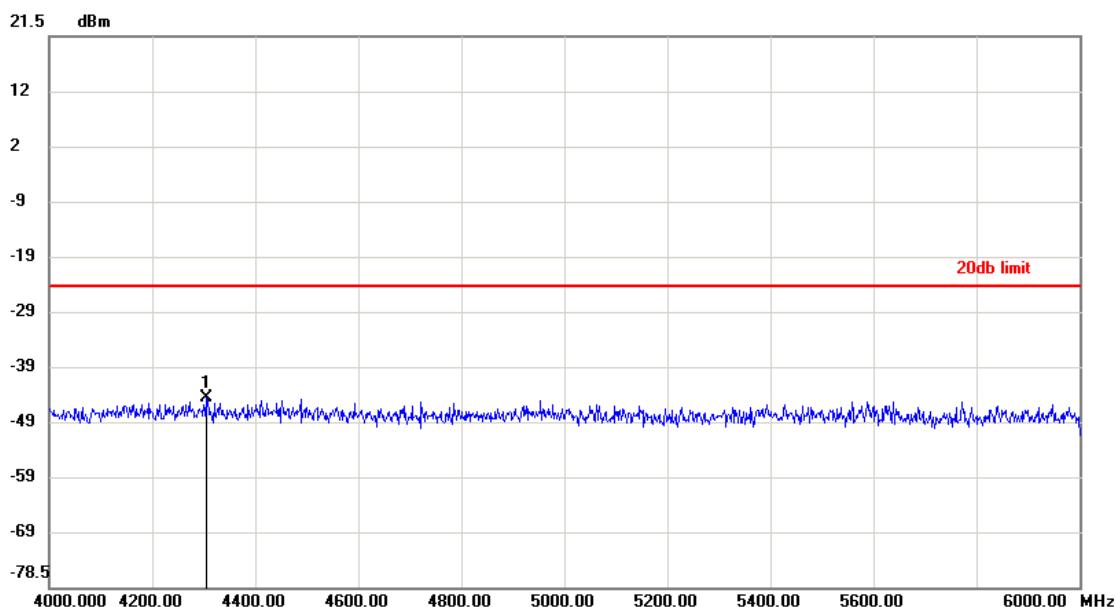


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1093.9970	-43.20	-23.88	-19.32

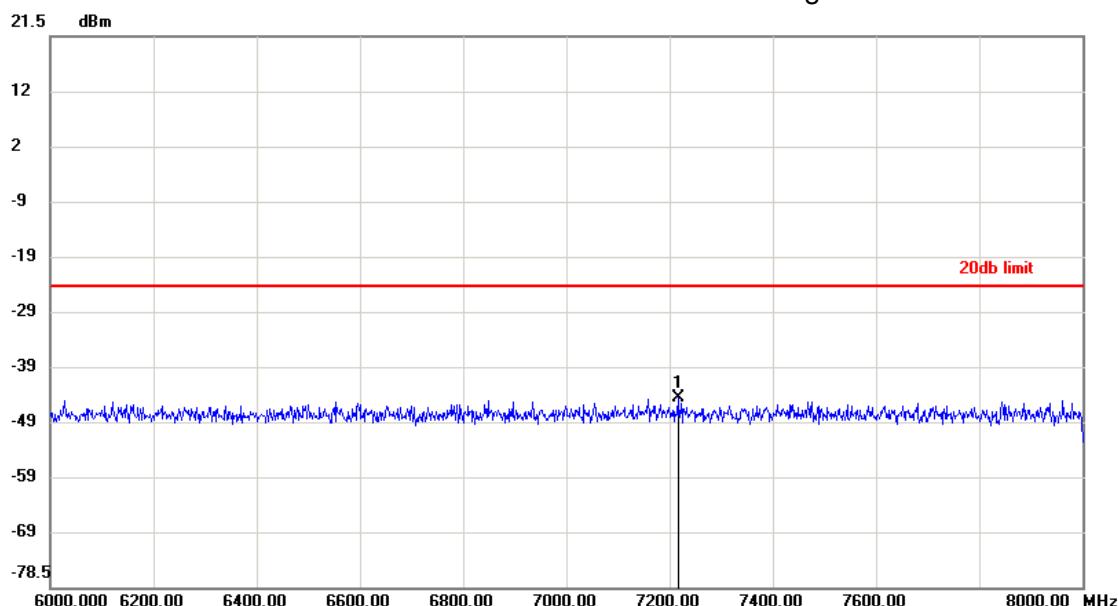
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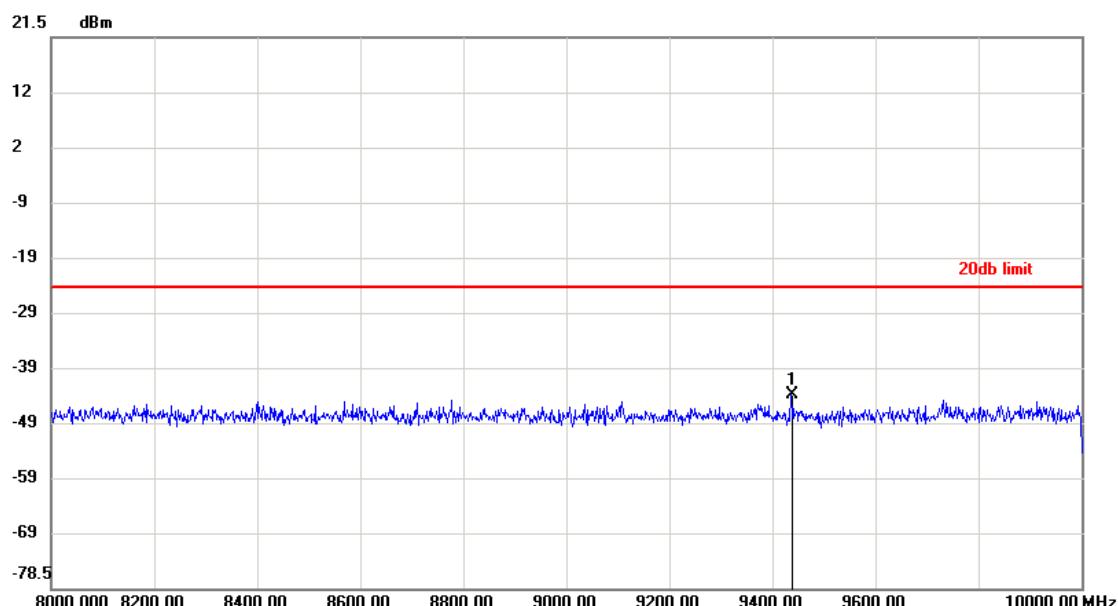
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2429.1333	-3.88	-23.88	20.00
2	2445.3333	-3.88	-23.88	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4305.4000	-44.02	-23.88	-20.14

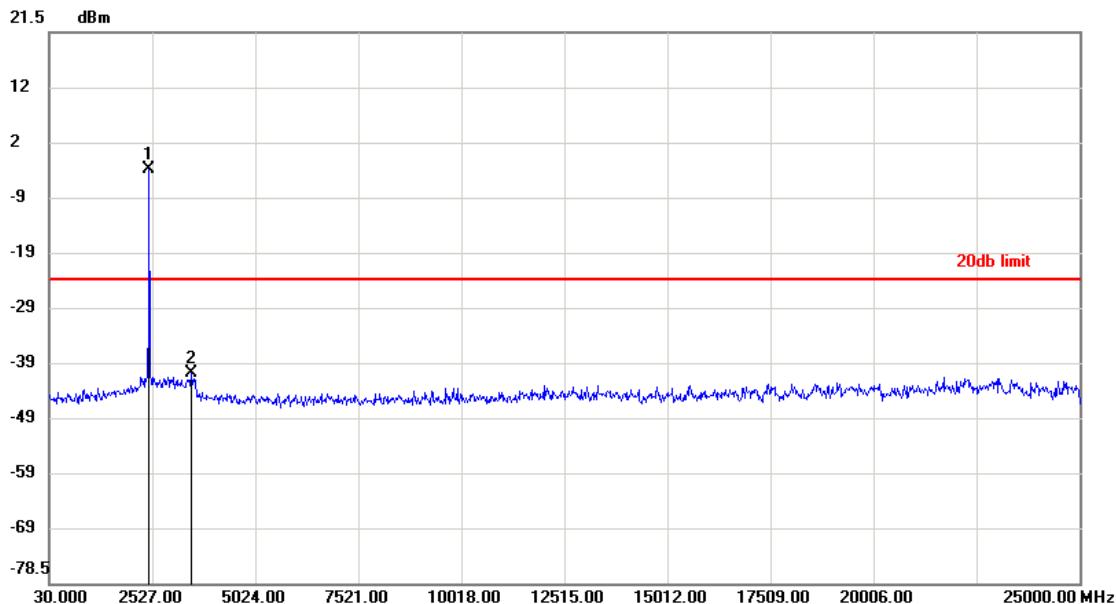


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7217.4000	-44.13	-23.88	-20.25

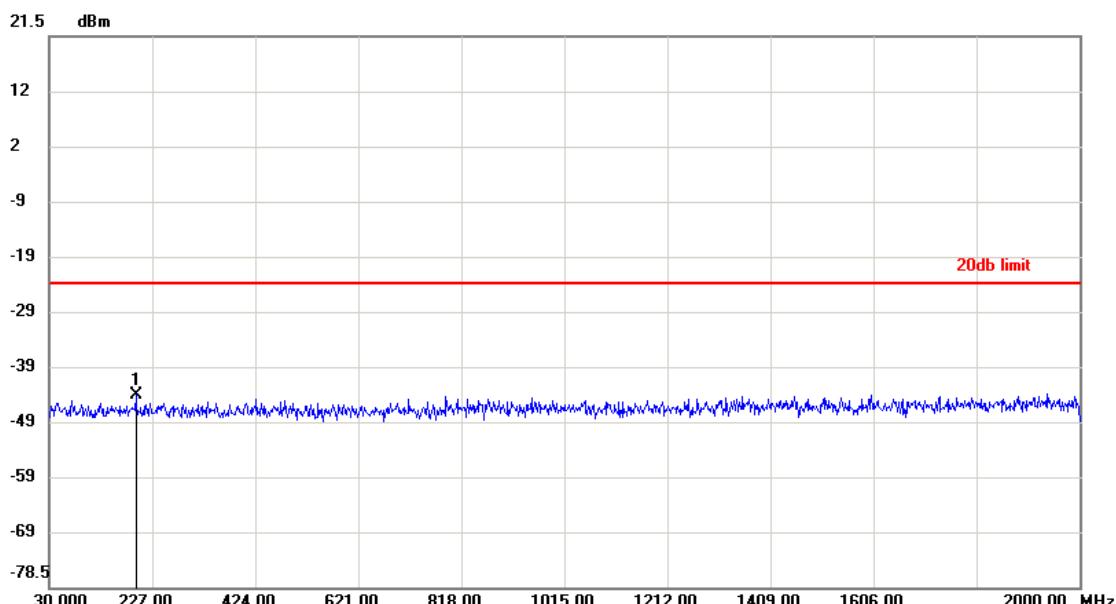


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9436.8667	-43.41	-23.88	-19.53

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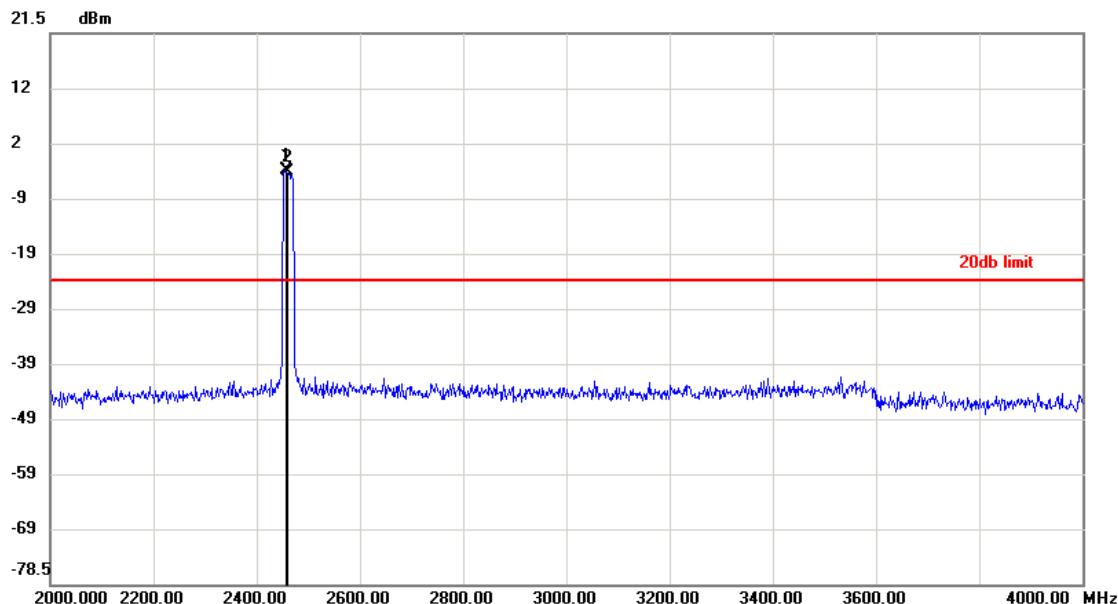


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2462.0780	-3.44	-23.44	20.00
2	3493.3390	-40.29	-23.44	-16.85

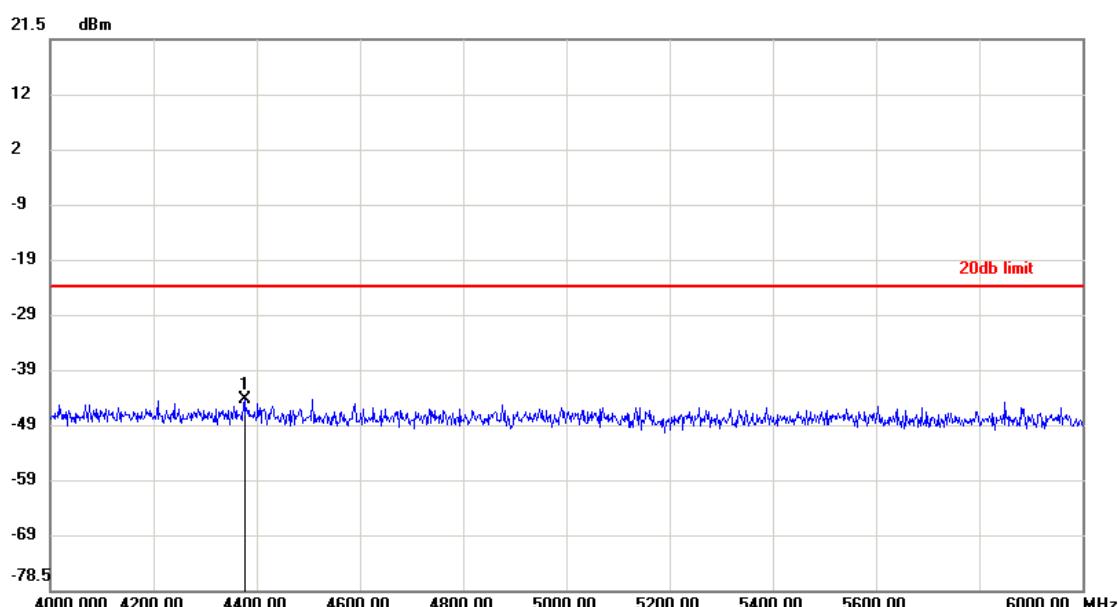


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	196.9903	-43.58	-23.42	-20.16

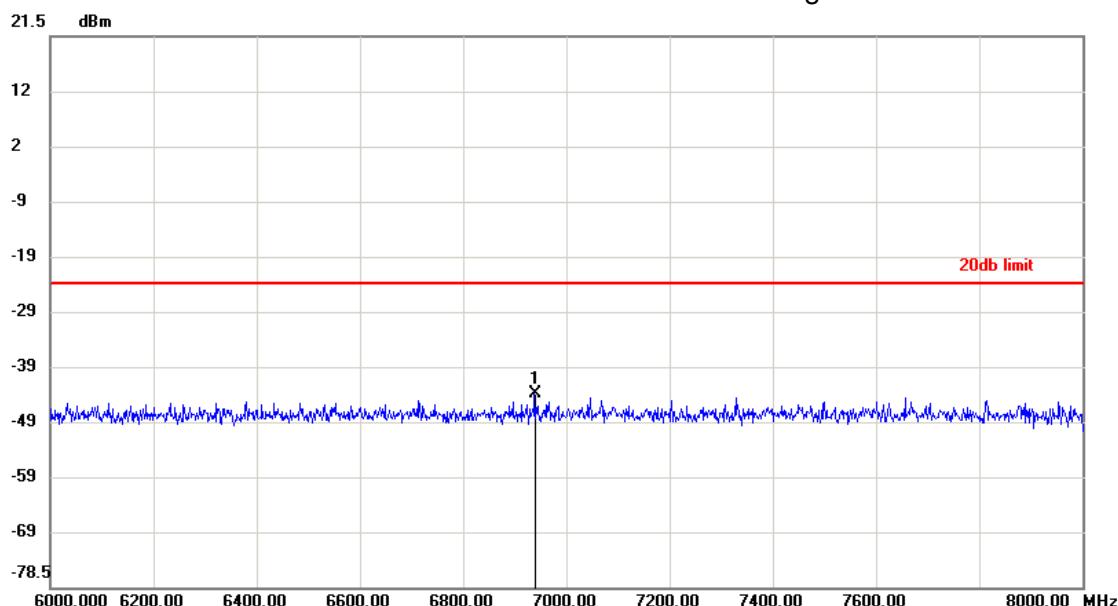
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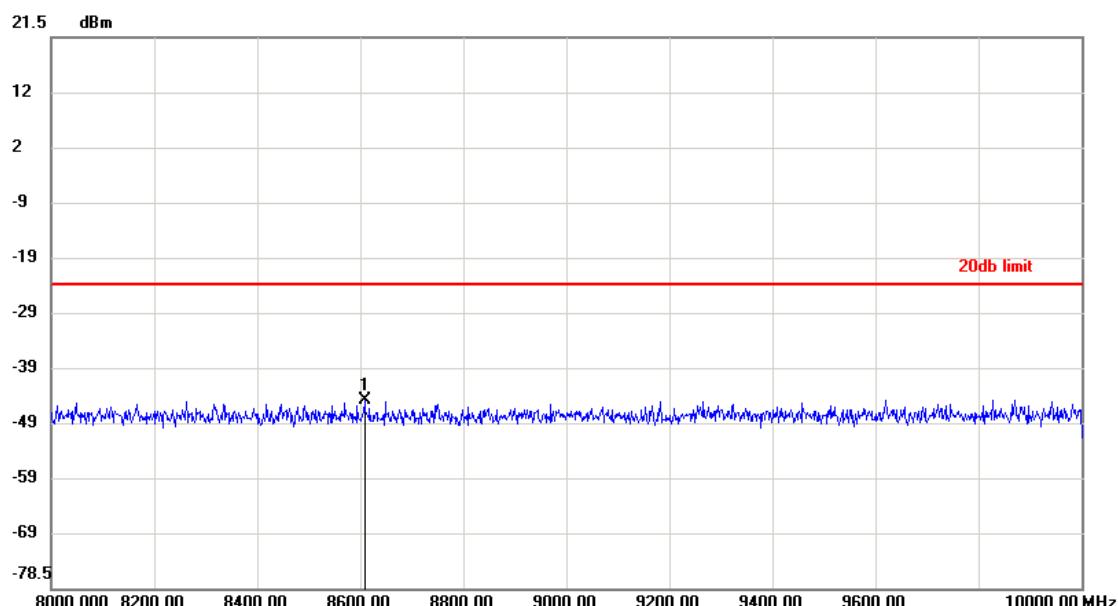
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2454.4667	-3.42	-23.42	20.00
2	2459.0667	-3.70	-23.42	19.72



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4376.4667	-43.85	-23.42	-20.43

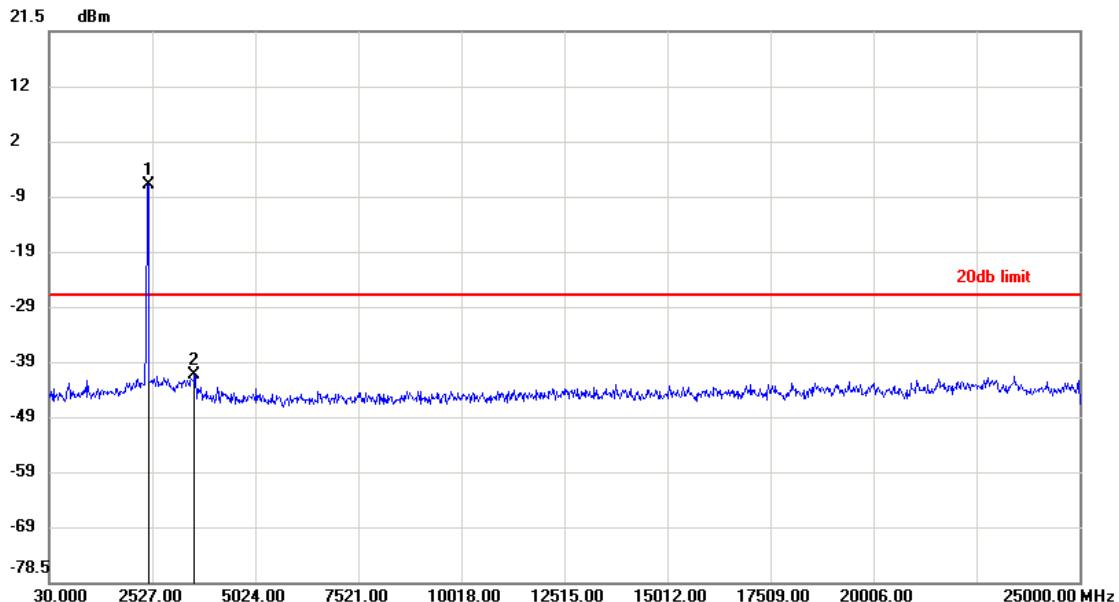


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6938.8667	-43.37	-23.42	-19.95

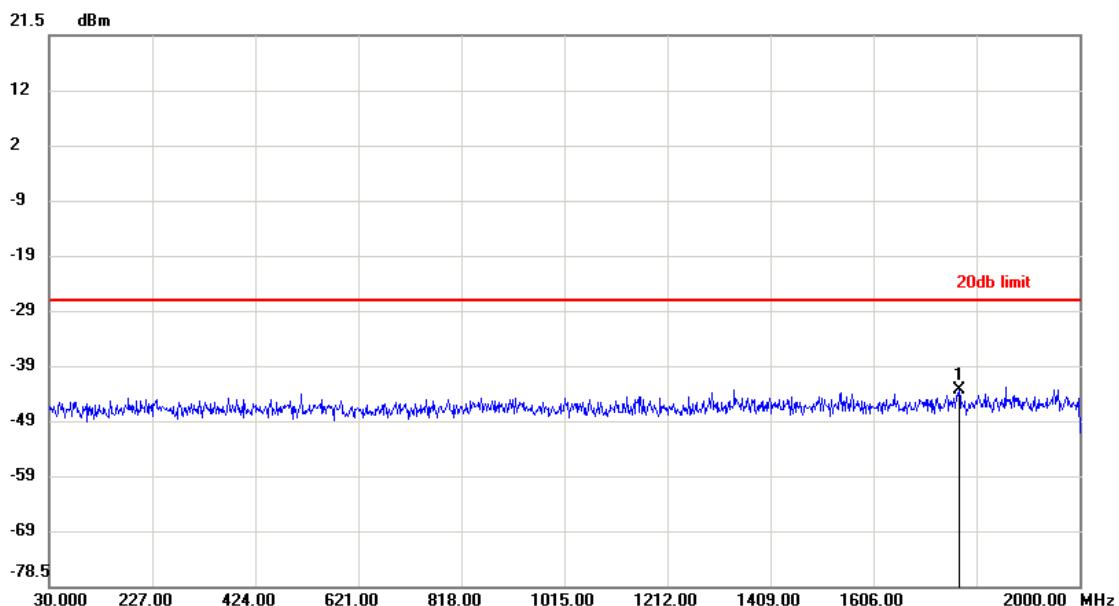


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8609.8667	-44.39	-23.42	-20.97

Test mode:	802.11n(HT40)	Test channel:	Lowest
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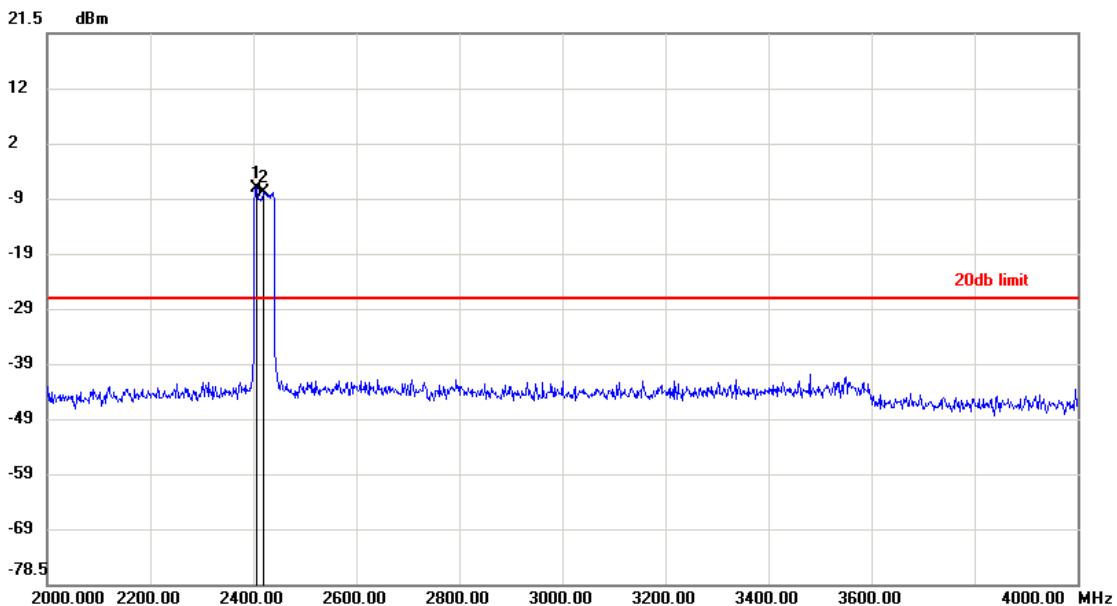
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2437.9403	-6.30	-26.30	20.00
2	3565.7520	-40.90	-26.30	-14.60



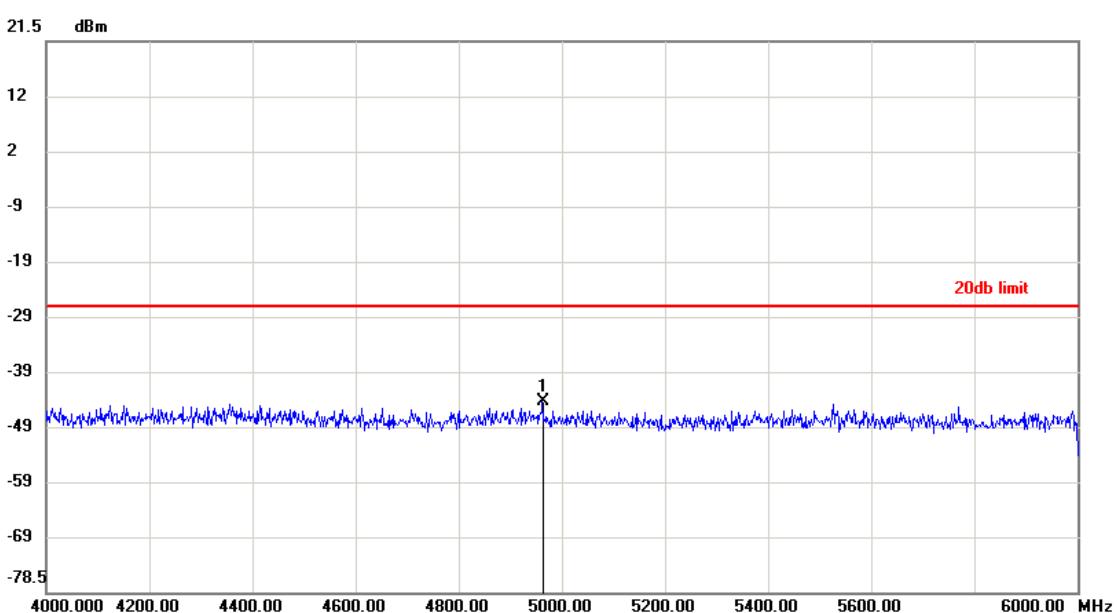
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1770.2323	-42.80	-26.56	-16.24

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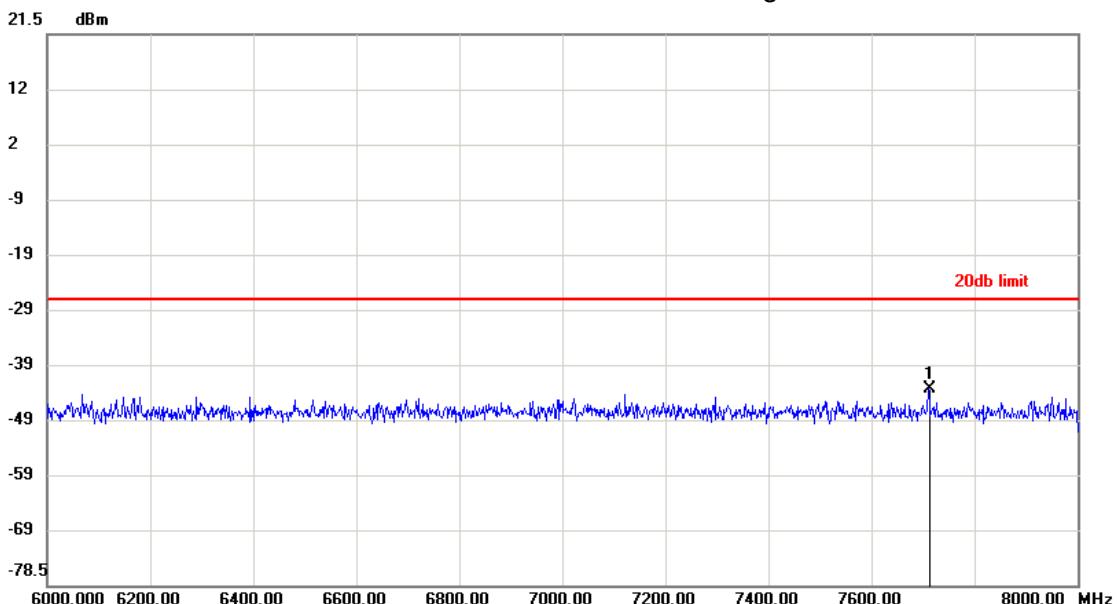




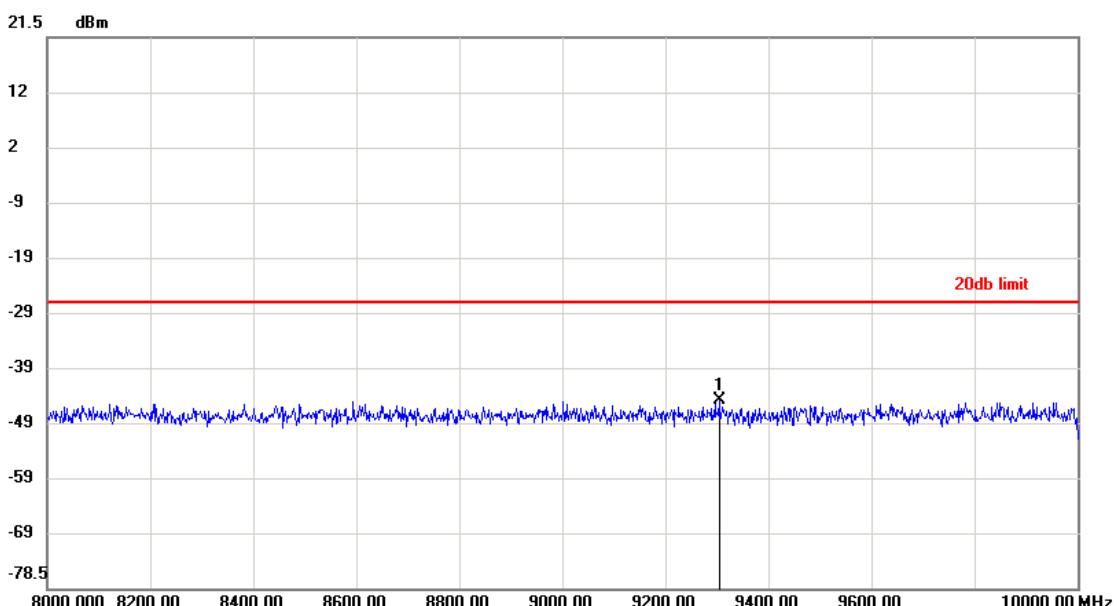
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.7333	-6.56	-26.56	20.00
2	2421.9333	-7.28	-26.56	19.28



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4962.8667	-43.86	-26.56	-17.30

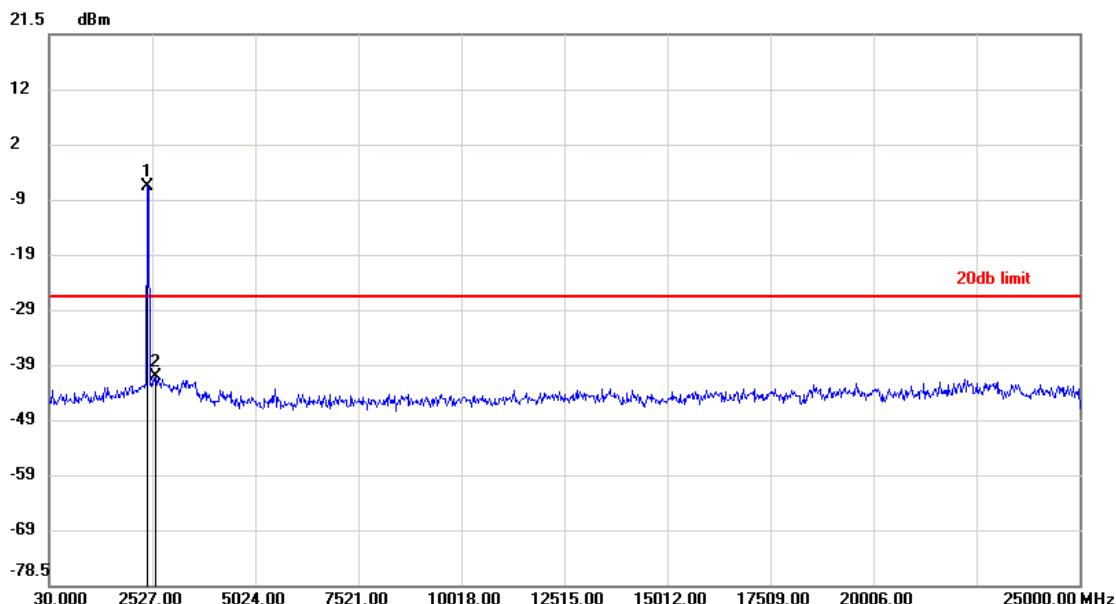


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7711.4667	-42.99	-26.56	-16.43

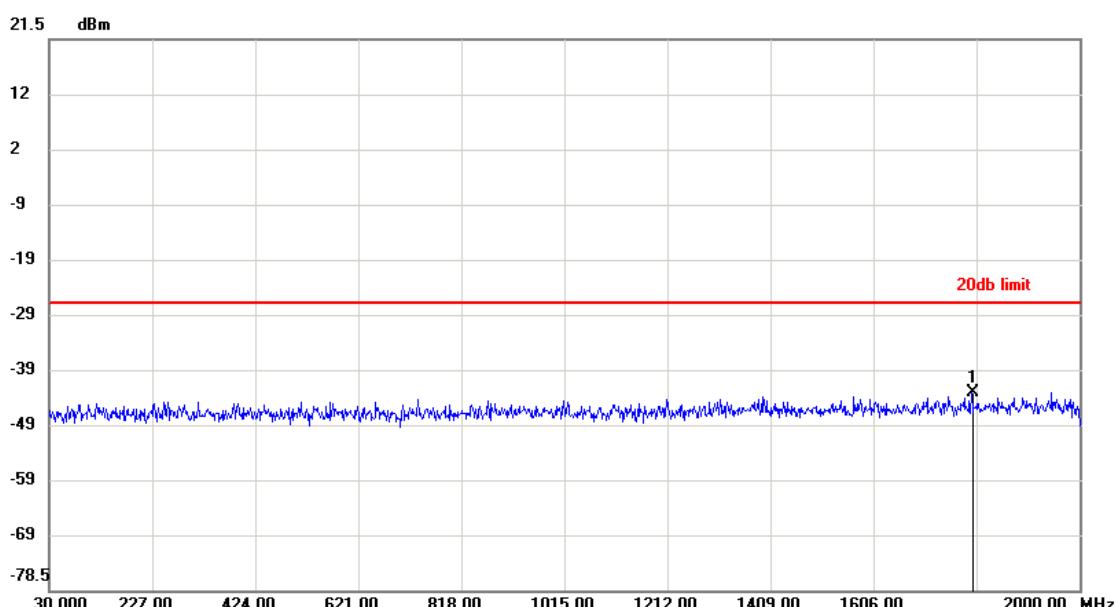


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9305.0667	-44.35	-26.56	-17.79

Test mode:	802.11n(HT40)	Test channel:	Middle
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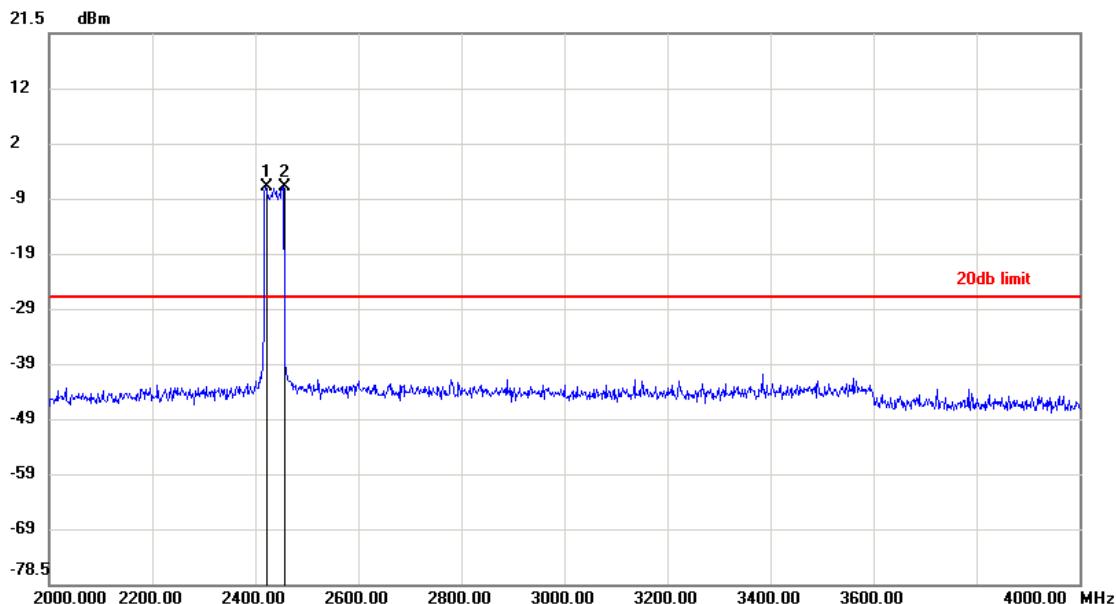


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2419.6290	-6.17	-26.17	20.00
2	2614.3950	-40.56	-26.17	-14.39

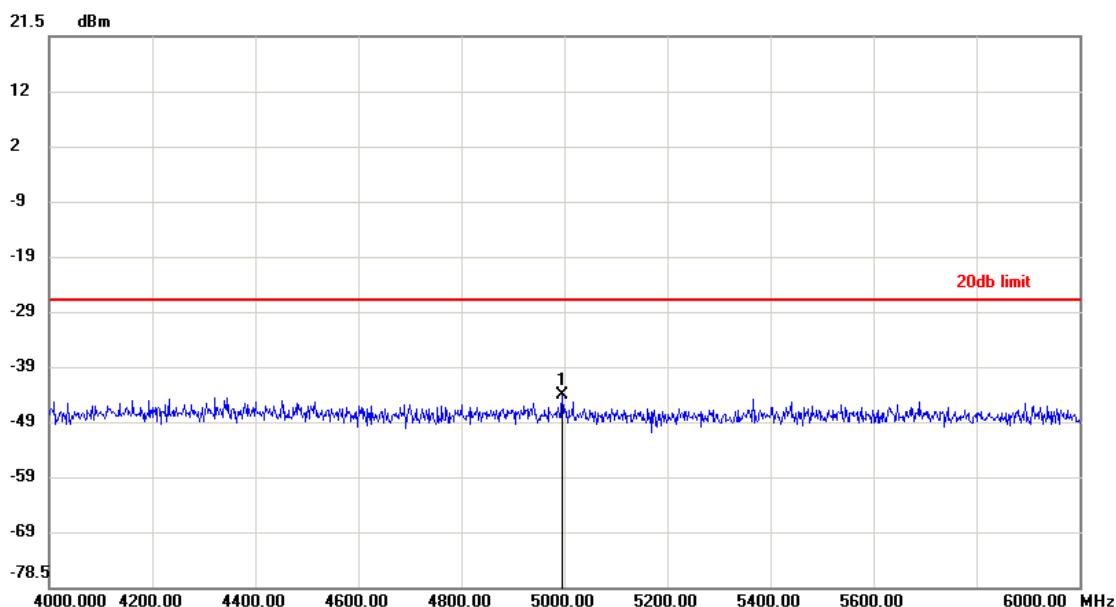


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1794.5947	-42.72	-26.29	-16.43

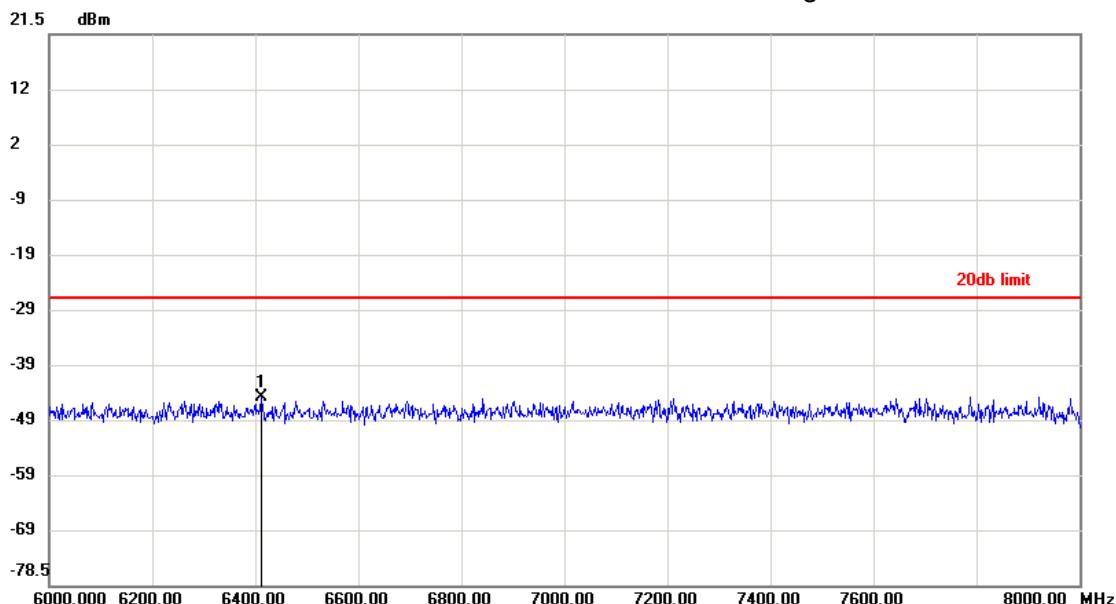
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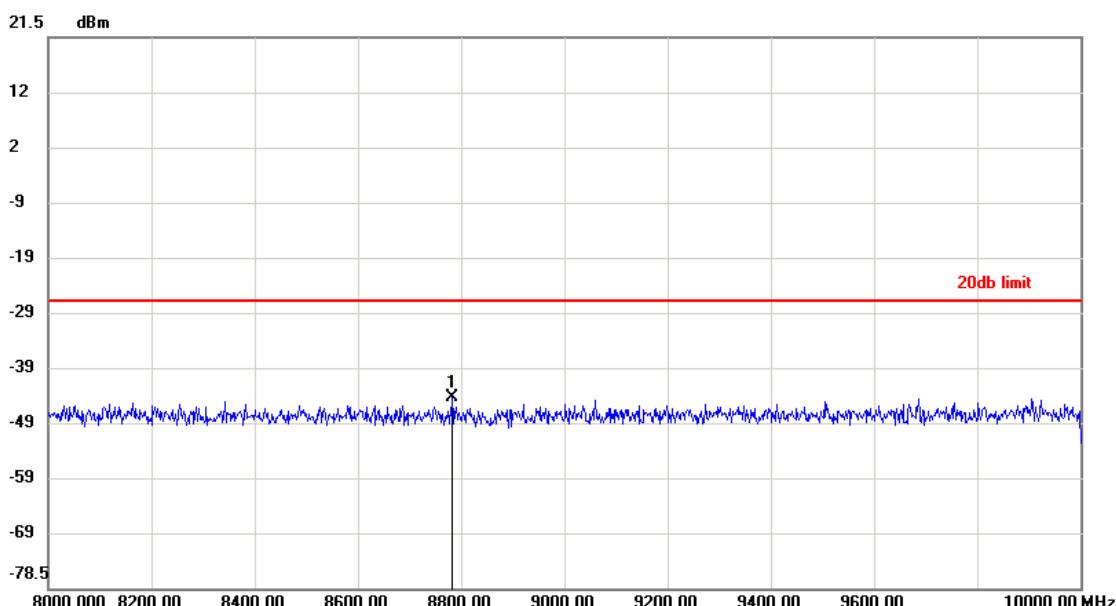
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2420.0667	-6.29	-26.29	20.00
2	2454.4667	-6.29	-26.29	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4996.8000	-43.58	-26.29	-17.29

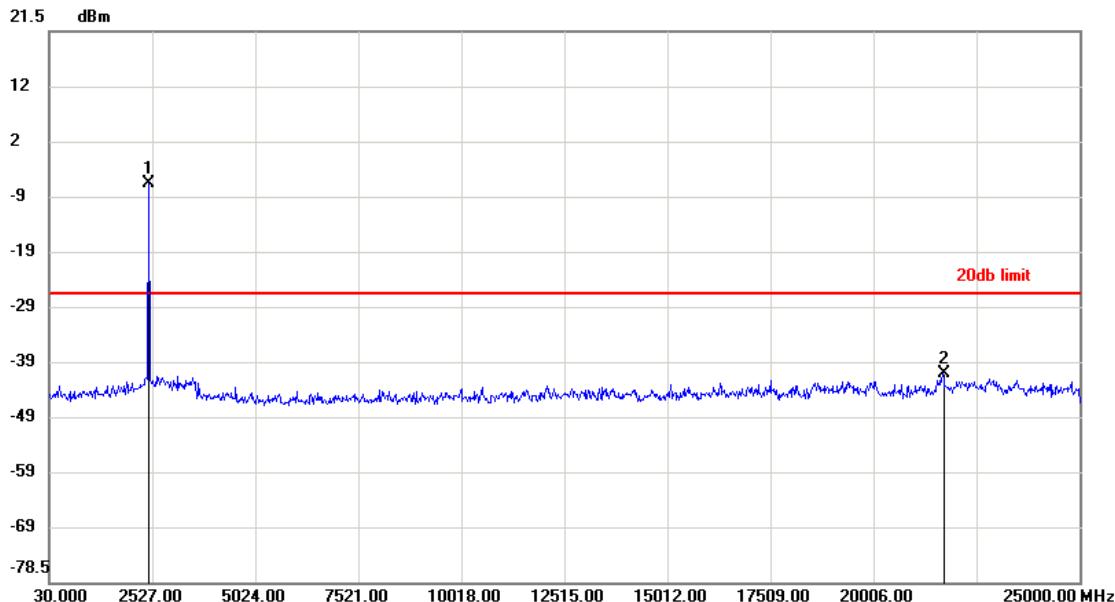


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6413.7333	-44.33	-26.29	-18.04

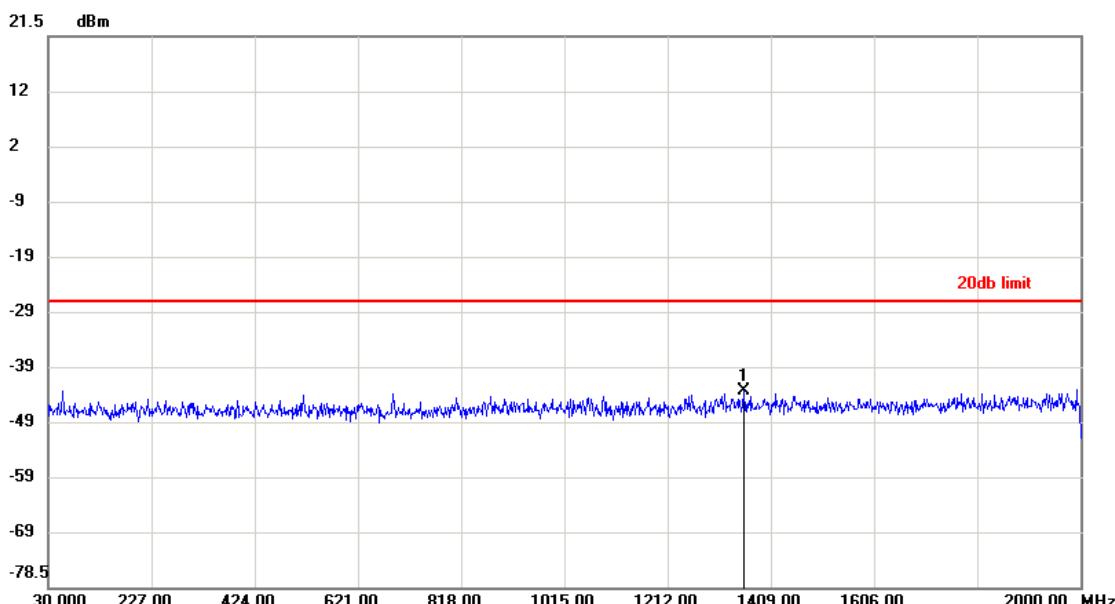


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8782.1333	-43.89	-26.29	-17.60

Test mode:	802.11n(HT40)	Test channel:	Highest
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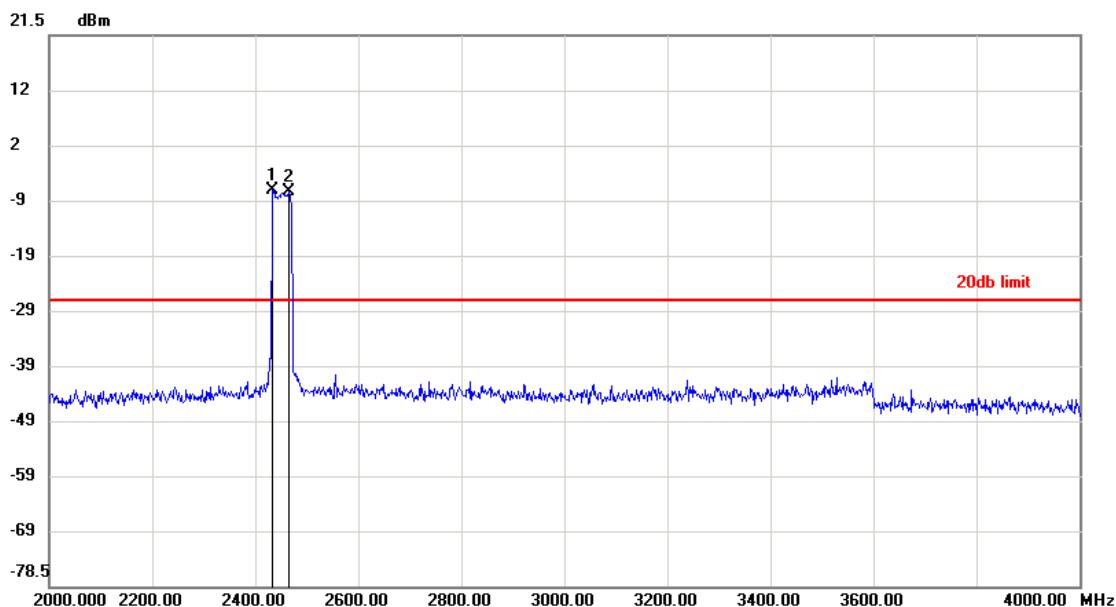
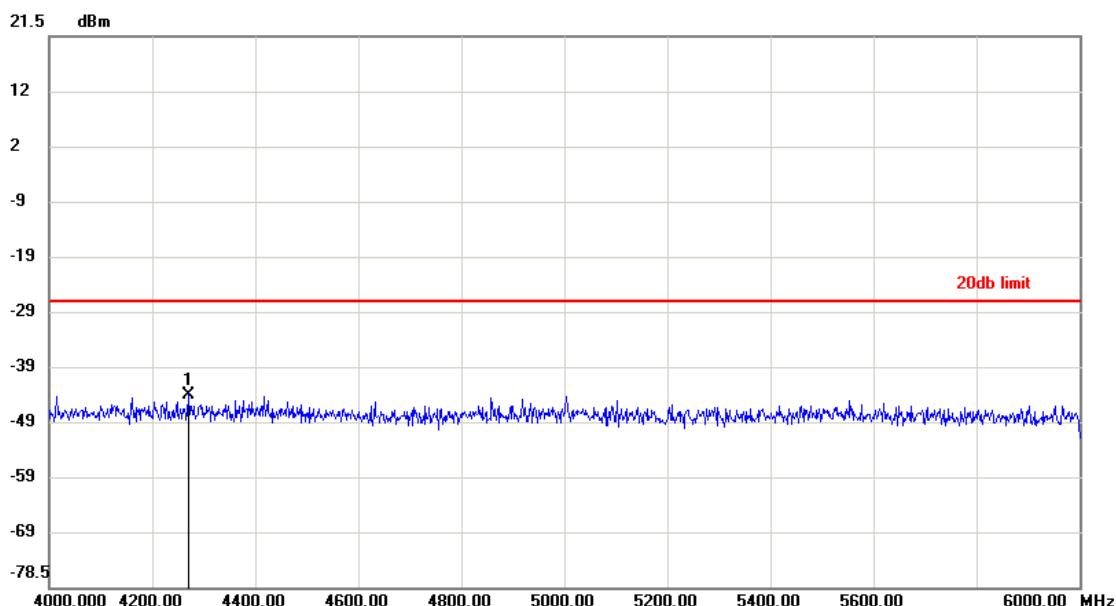


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2467.9043	-6.15	-26.15	20.00
2	21698.1337	-40.74	-26.15	-14.59

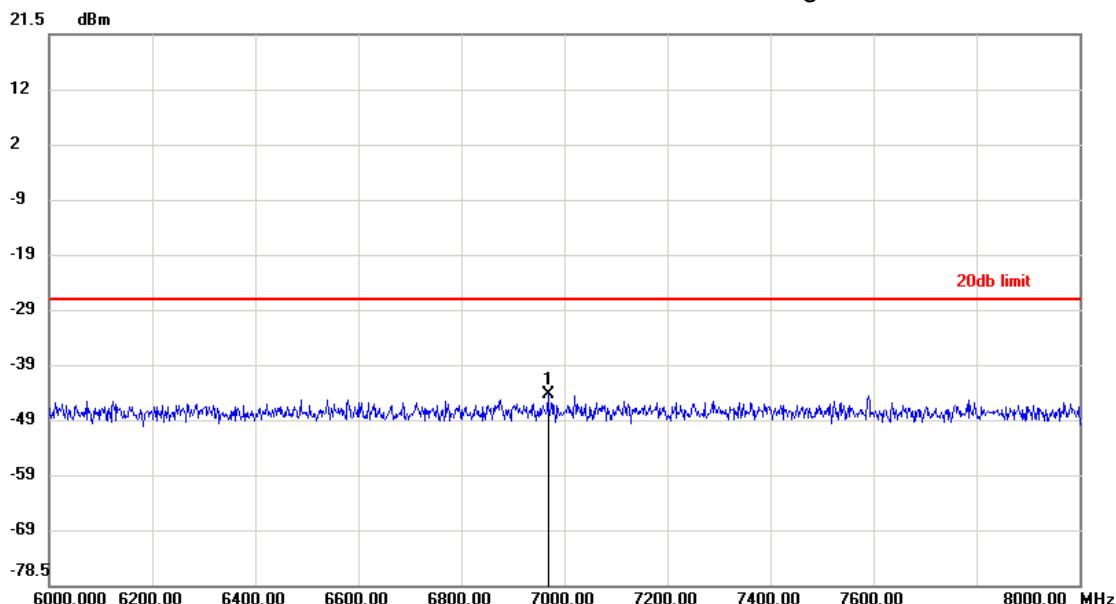


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1357.7800	-42.94	-26.61	-16.33

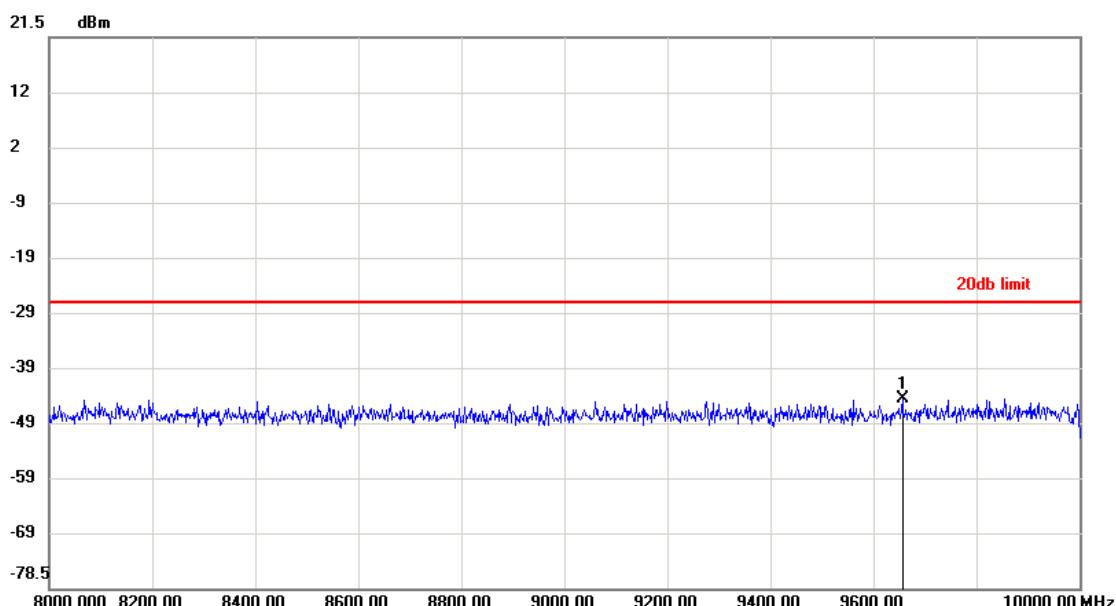
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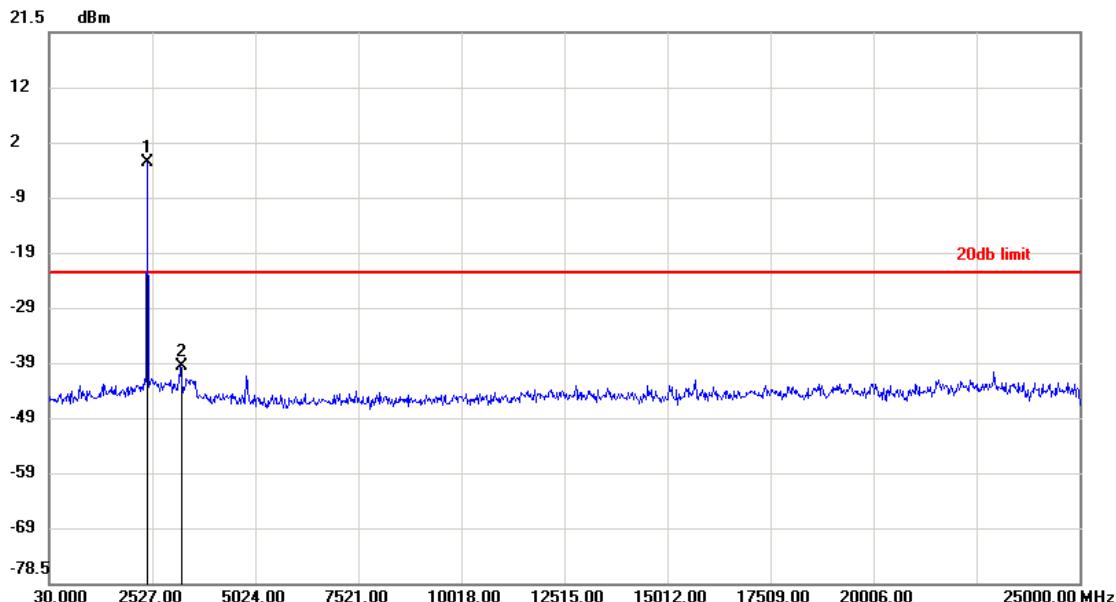
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6969.2000	-43.97	-26.61	-17.36



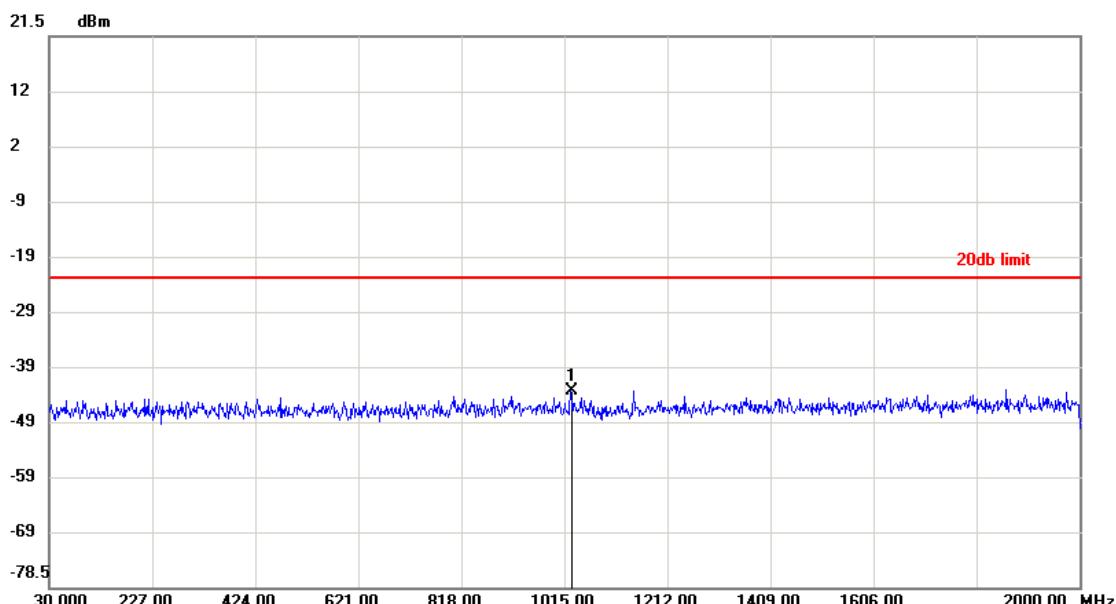
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9657.4667	-44.15	-26.61	-17.54

Antenna 2

Test mode:	802.11b	Test channel:	Lowest
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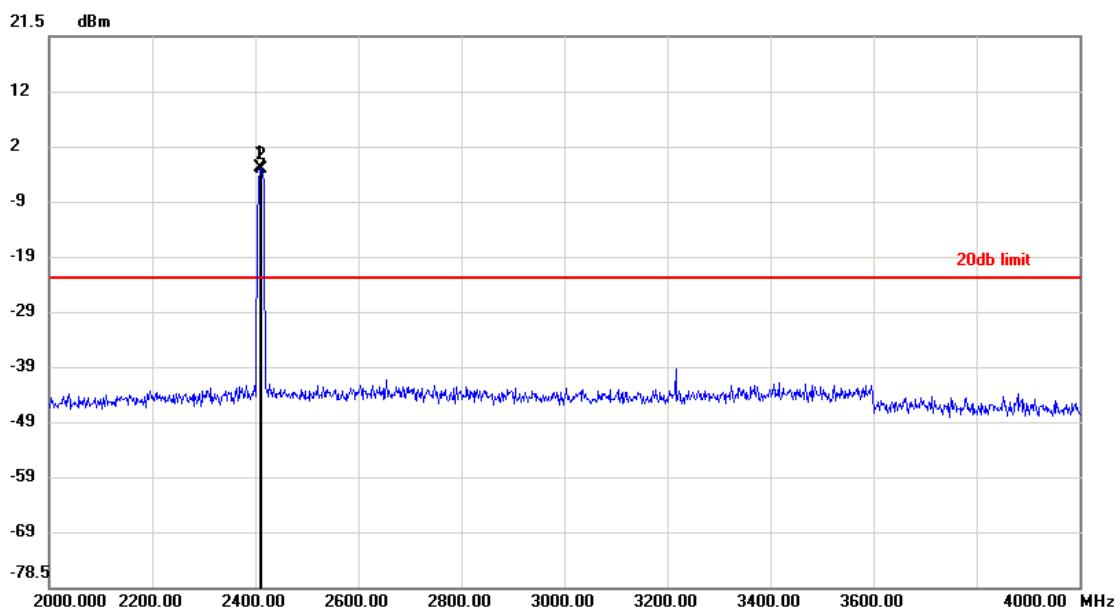


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2409.6410	-2.23	-22.23	20.00
2	3215.3397	-39.20	-22.23	-16.97

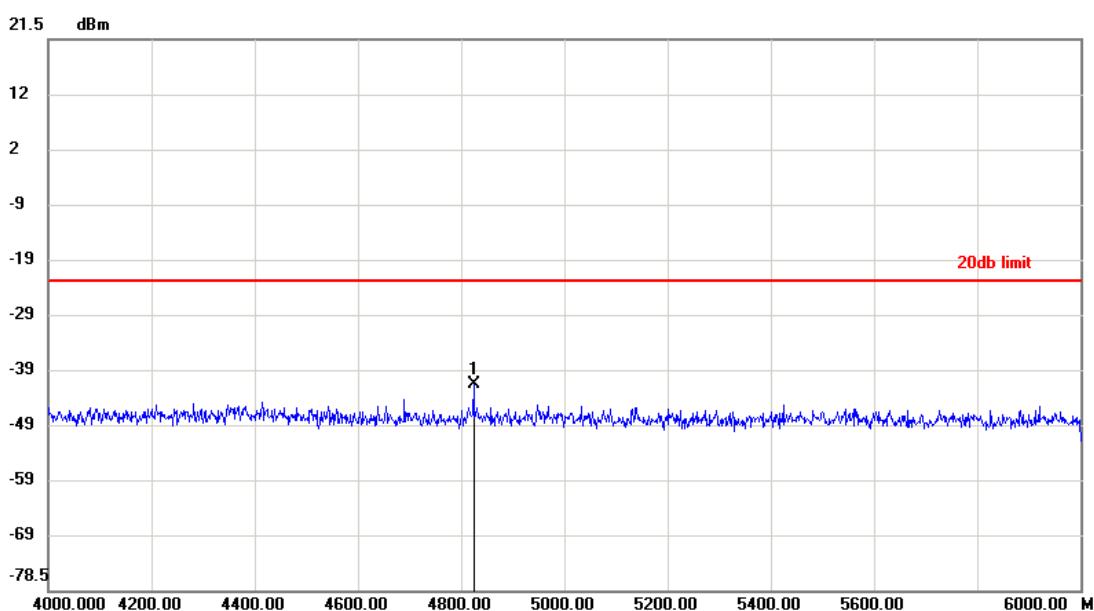


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1027.4767	-42.91	-22.30	-20.61

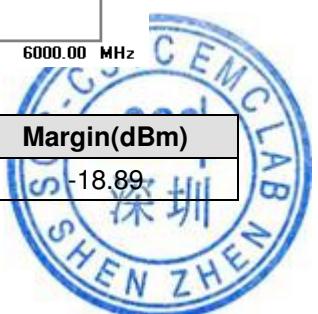
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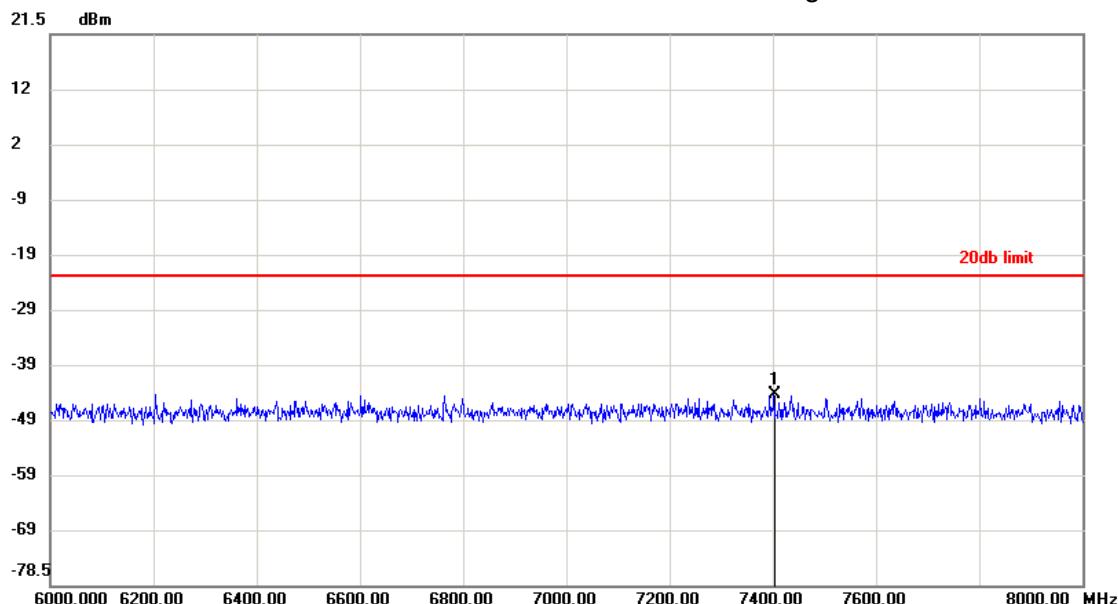


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2409.9333	-2.30	-22.30	20.00
2	2413.9333	-2.63	-22.30	19.67

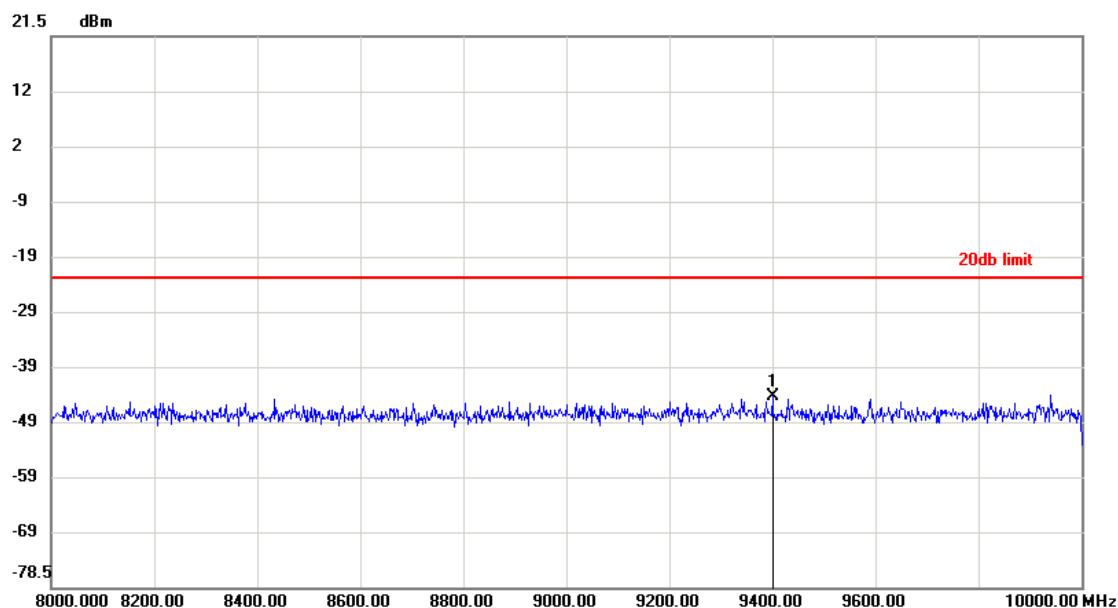


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4824.0000	-41.19	-22.30	-18.89



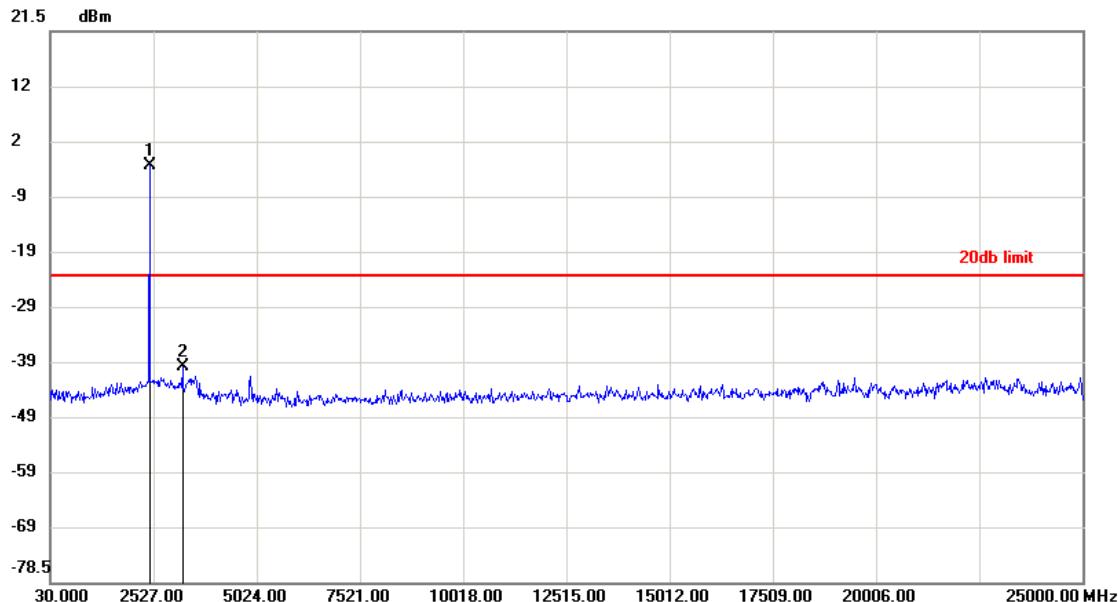


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7402.4667	-43.88	-22.30	-21.58

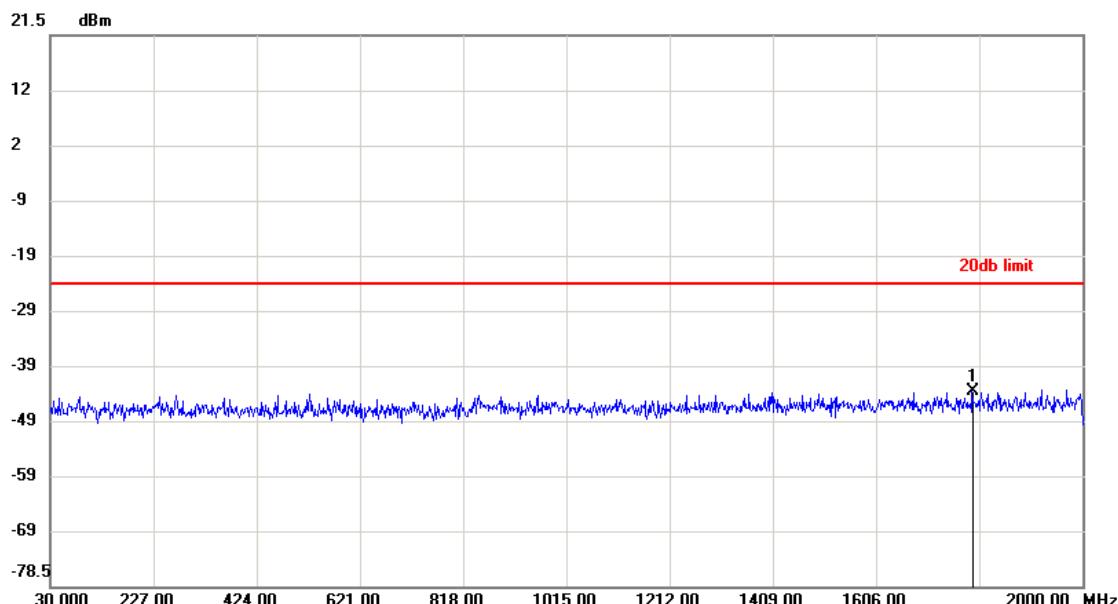


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9400.6000	-43.95	-22.30	-21.65

Test mode:	802.11b	Test channel:	Middle
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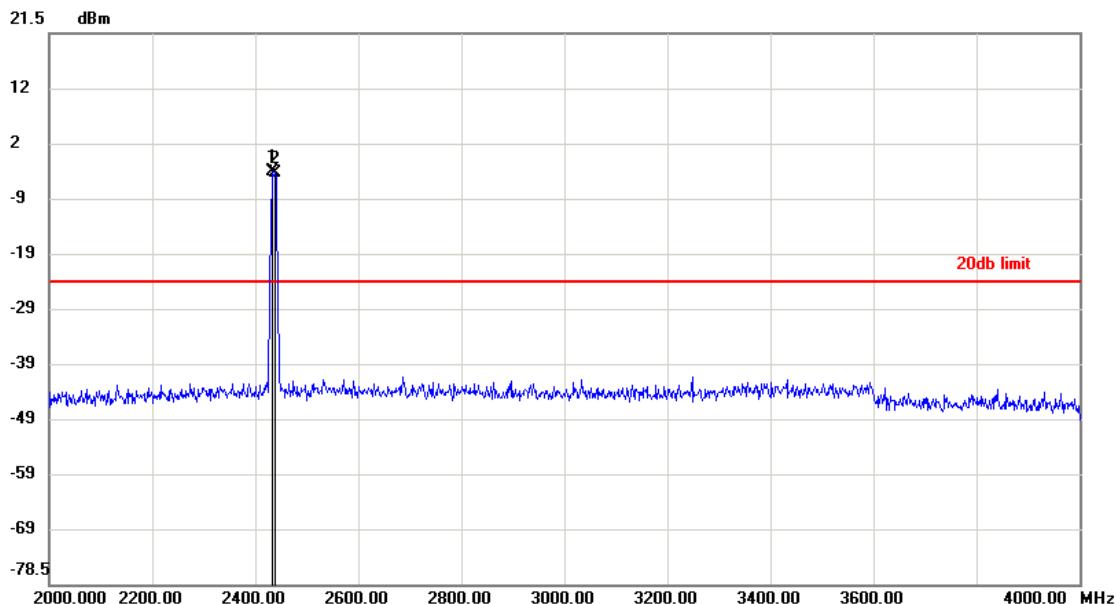


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2438.7727	-2.85	-22.85	20.00
2	3249.4653	-39.45	-22.85	-16.60

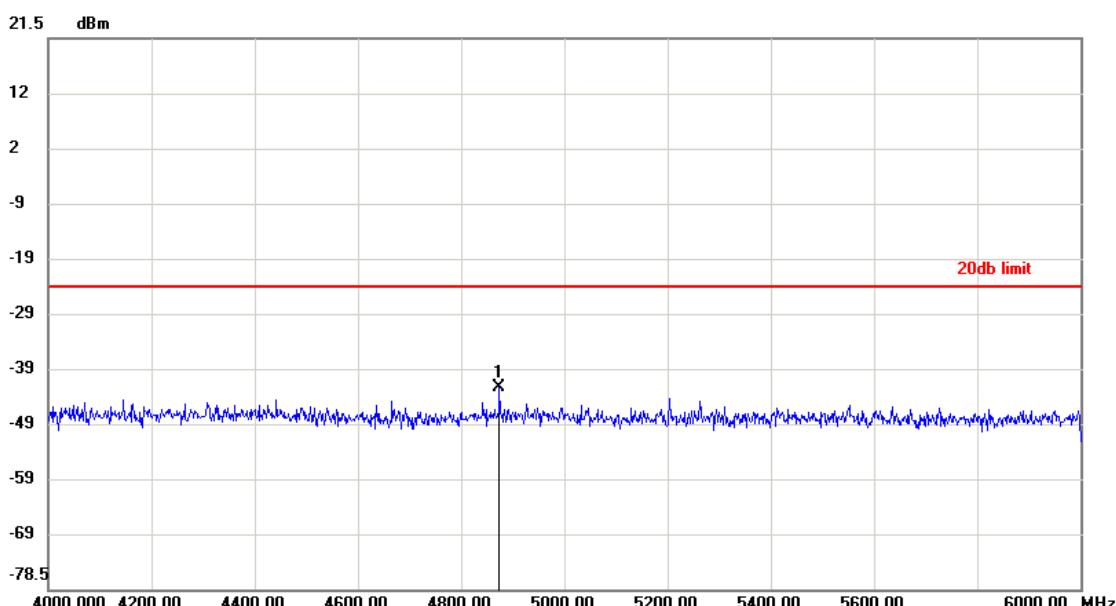


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1790.8517	-43.17	-23.56	-19.61

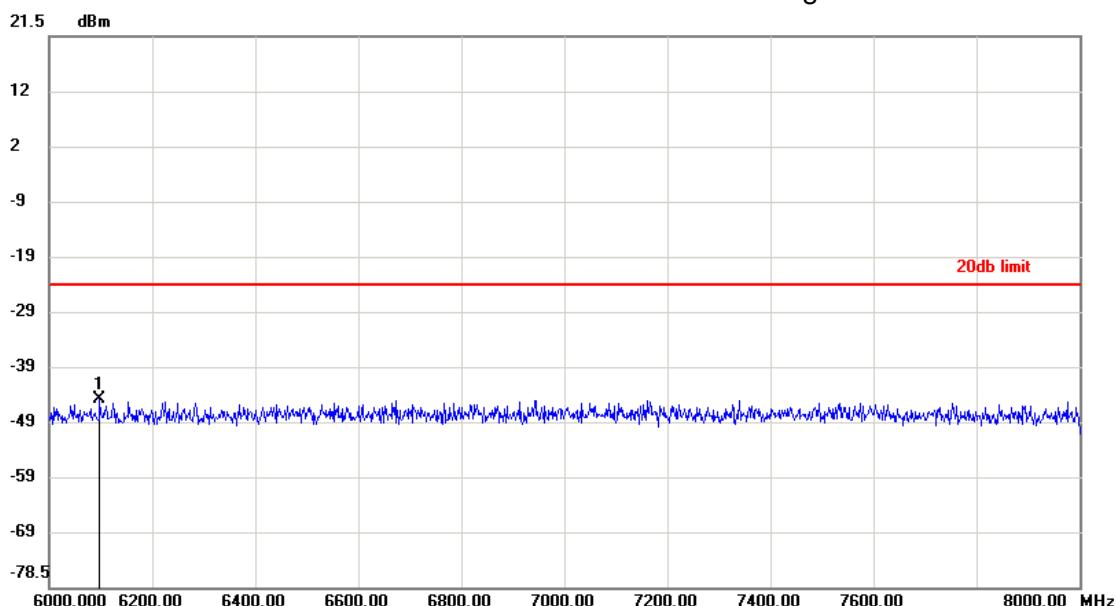
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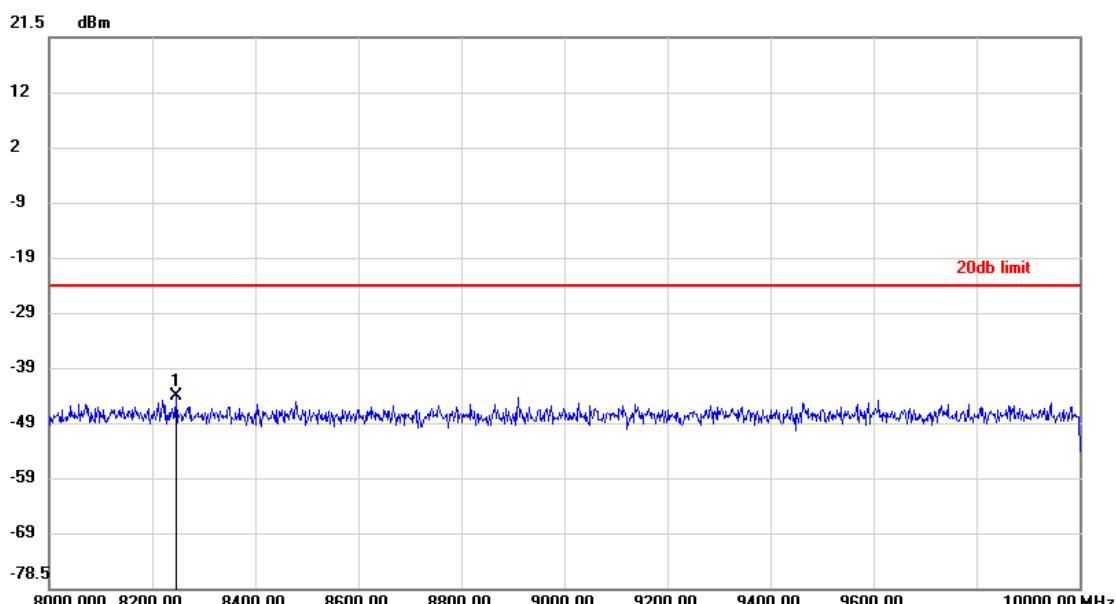
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2435.0000	-3.56	-23.56	20.00
2	2439.9333	-3.75	-23.56	19.81



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4874.0000	-41.95	-23.56	-18.39

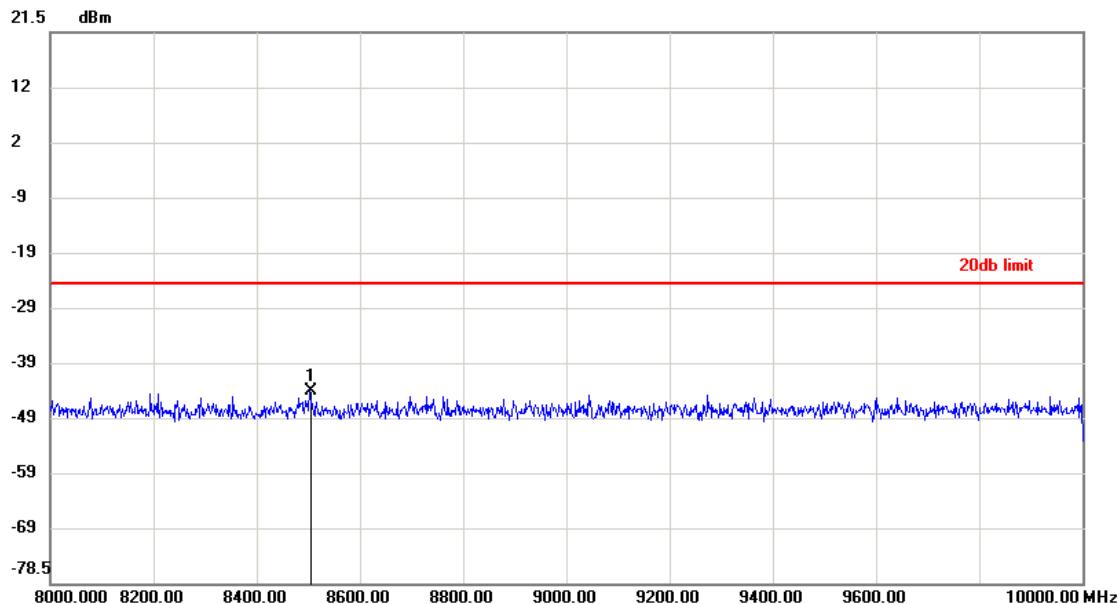


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6098.8000	-44.42	-23.56	-20.86

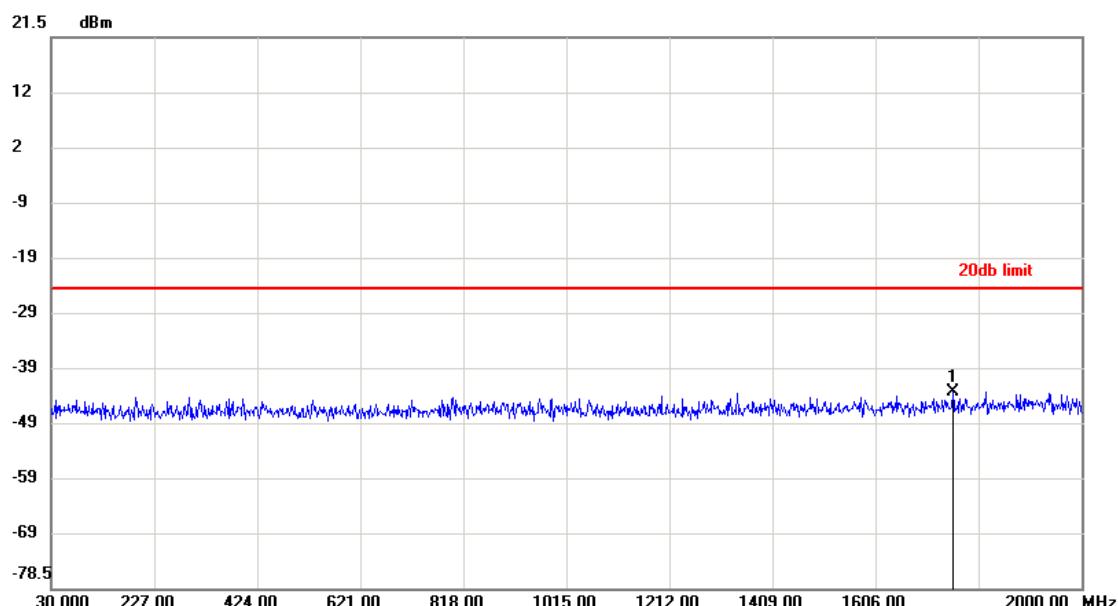


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8247.6000	-43.74	-23.56	-20.18

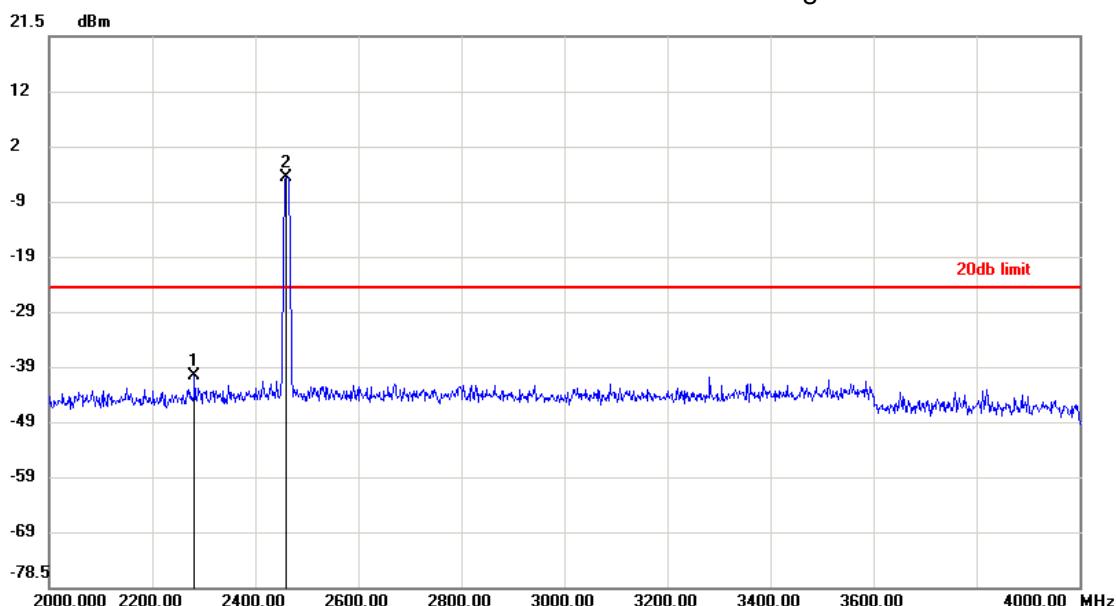
Test mode:	802.11b	Test channel:	Highest
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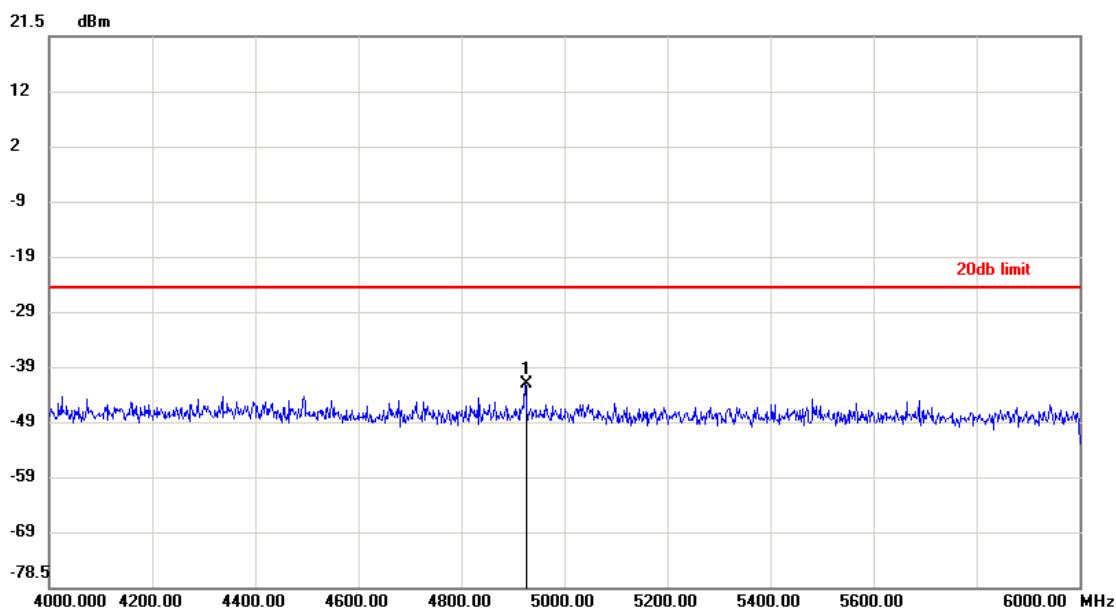
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8503.4667	-43.70	-24.14	-19.56



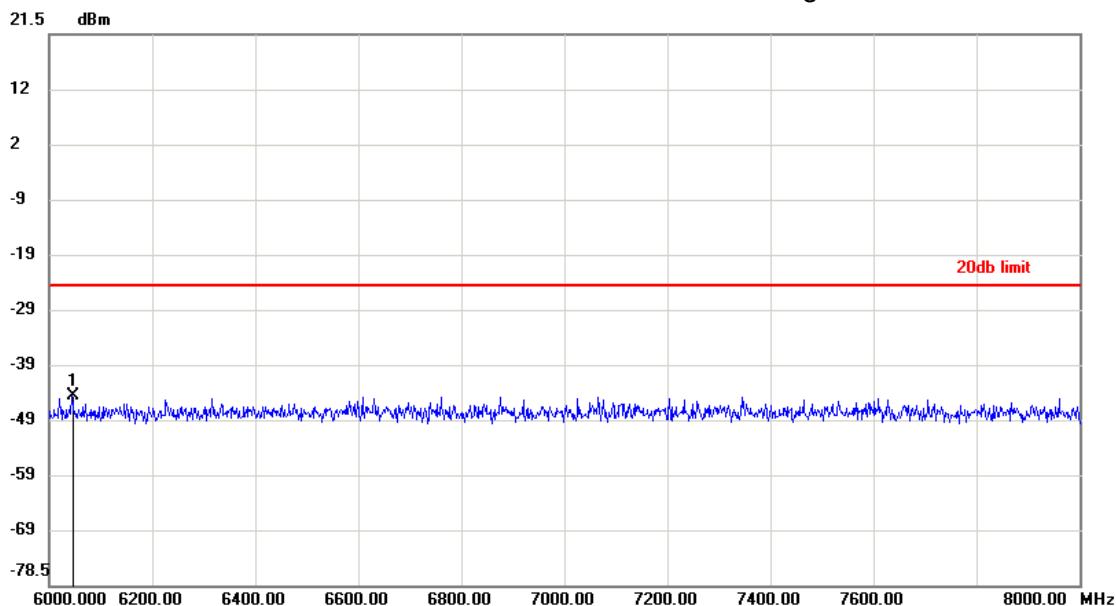
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1755.0633	-42.78	-24.14	-18.64



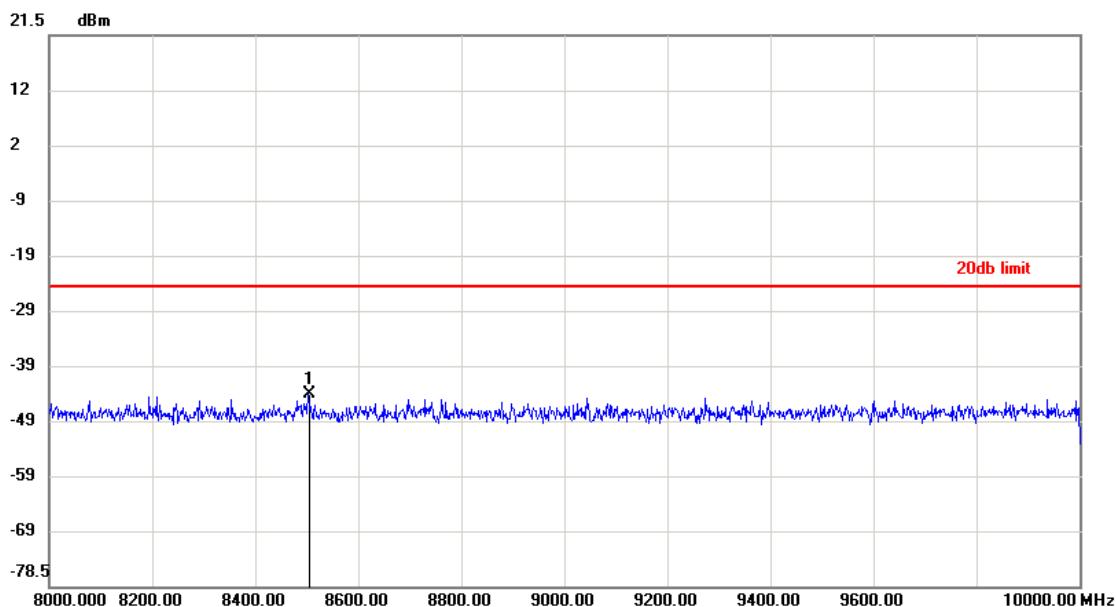
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2283.6000	-40.19	-24.14	-16.05
2	2460.9333	-4.14	-24.14	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4924.0667	-41.72	-24.14	-17.58

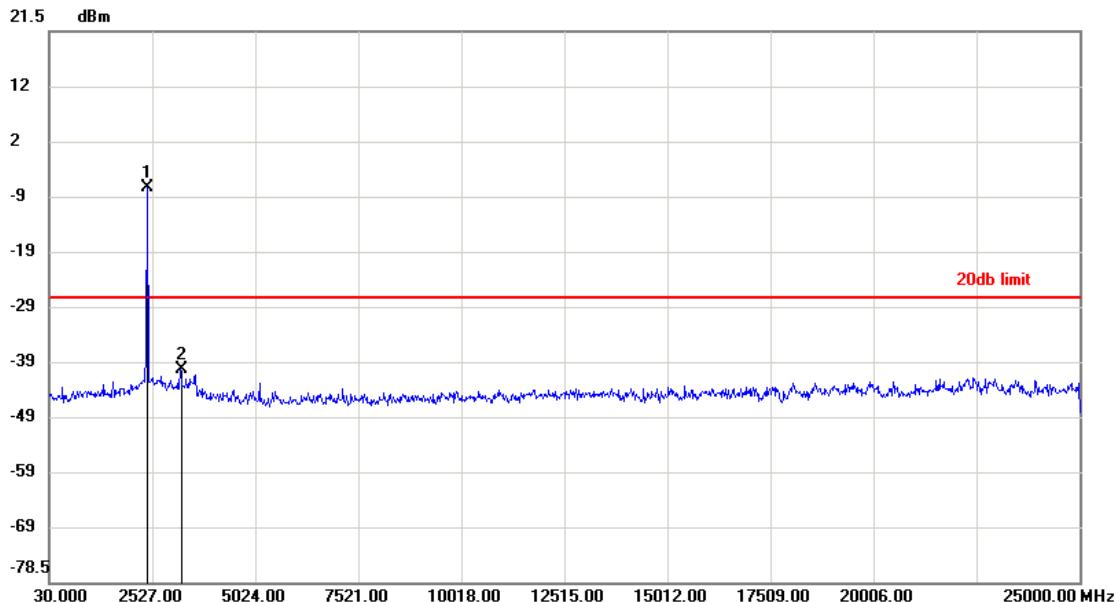


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6044.8667	-44.02	-24.14	-19.88

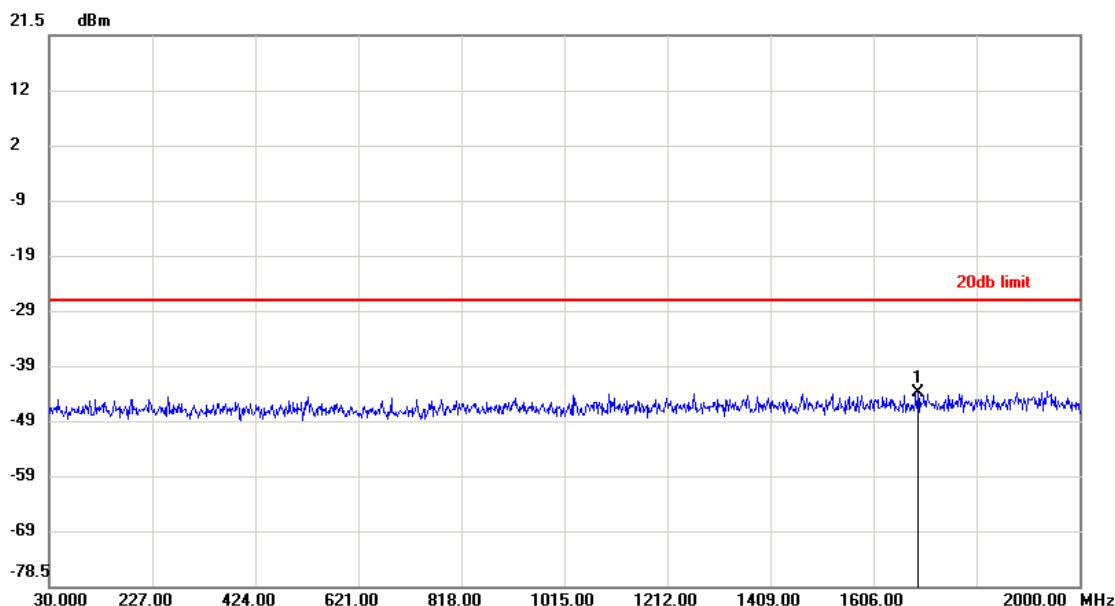


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8503.4667	-43.70	-24.14	-19.56

Test mode:	802.11g	Test channel:	Lowest
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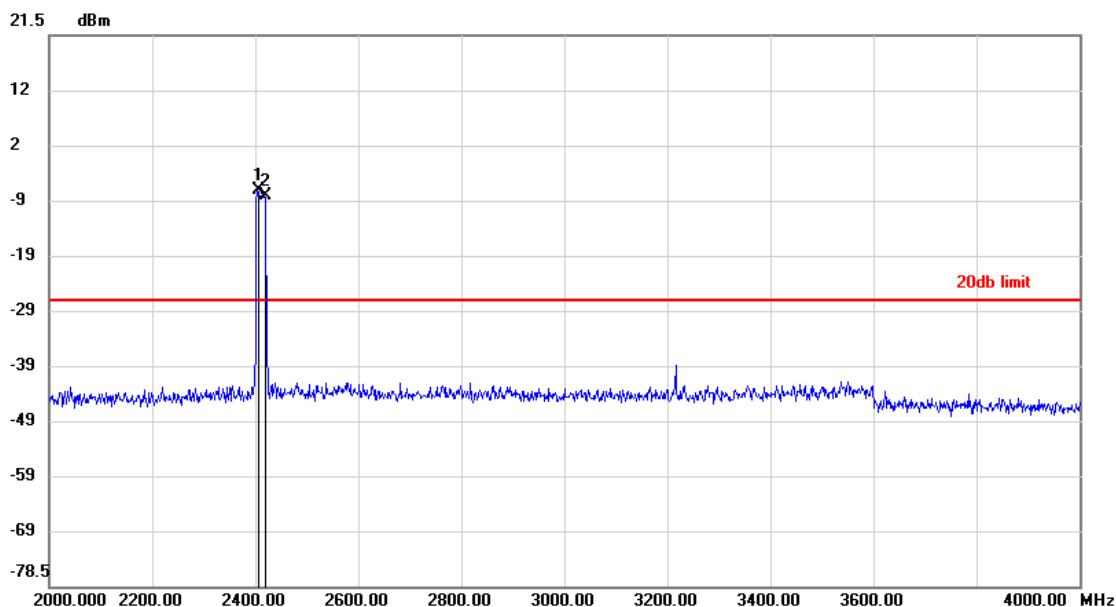


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2410.4733	-6.98	-26.98	20.00
2	3215.3397	-39.84	-26.98	-12.86

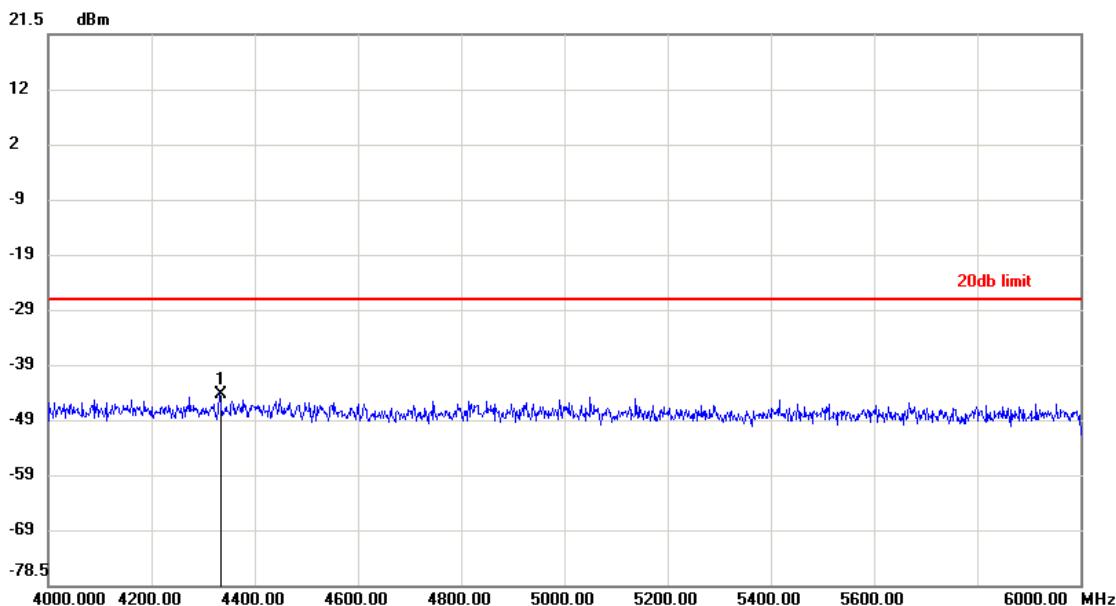


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1690.8413	-43.39	-26.73	-16.66

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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2404.4667	-6.73	-26.73	20.00
2	2419.4667	-7.65	-26.73	19.08

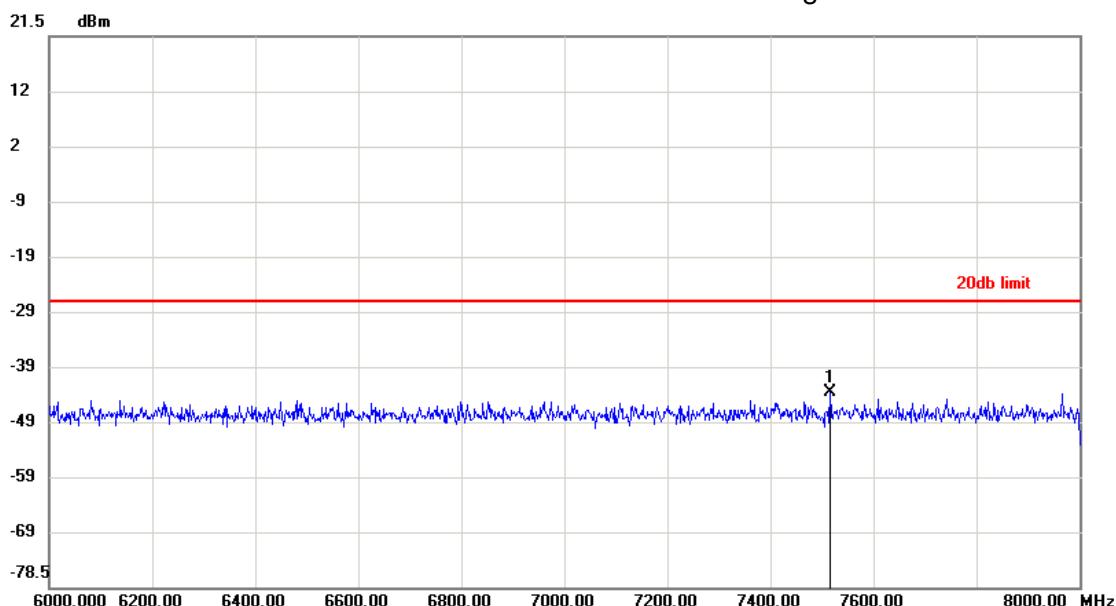


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4333.4667	-43.90	-26.73	-17.17

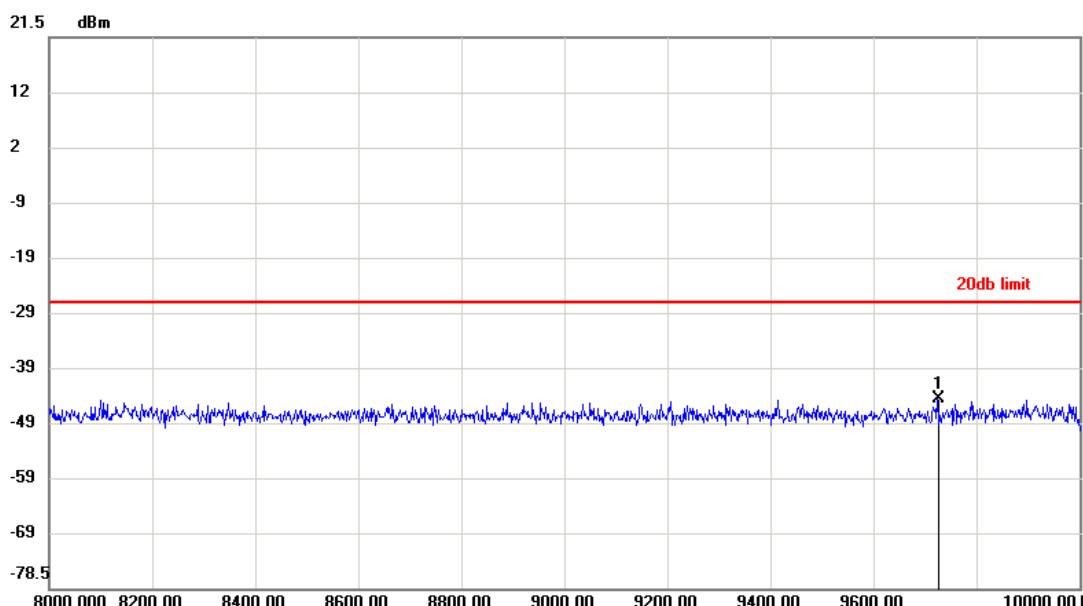


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7517.2000	-43.18	-26.73	-16.45

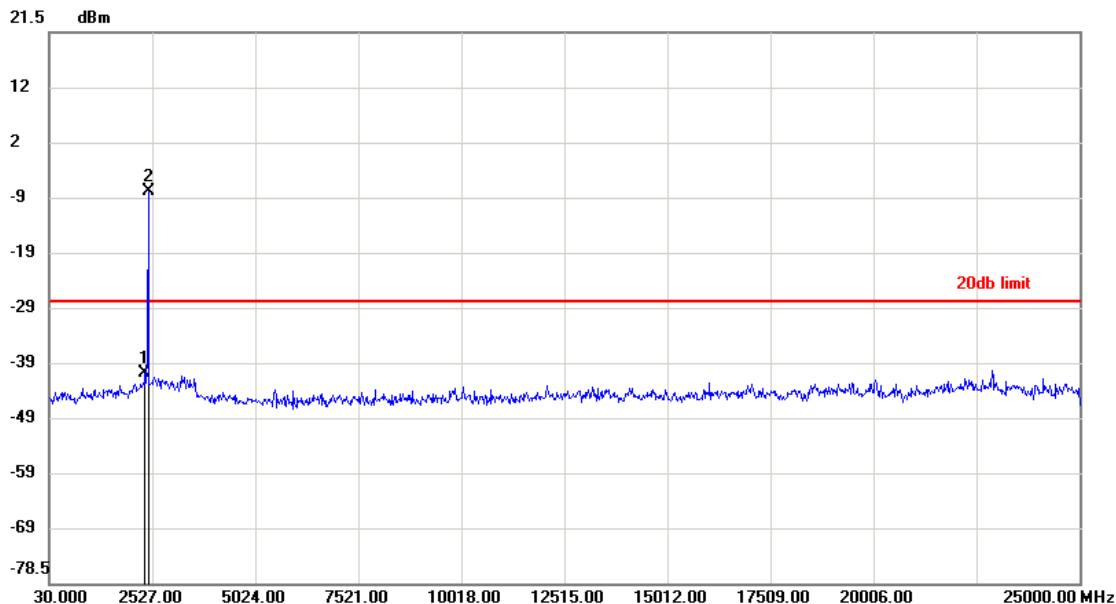


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9725.8667	-44.23	-26.73	-17.50

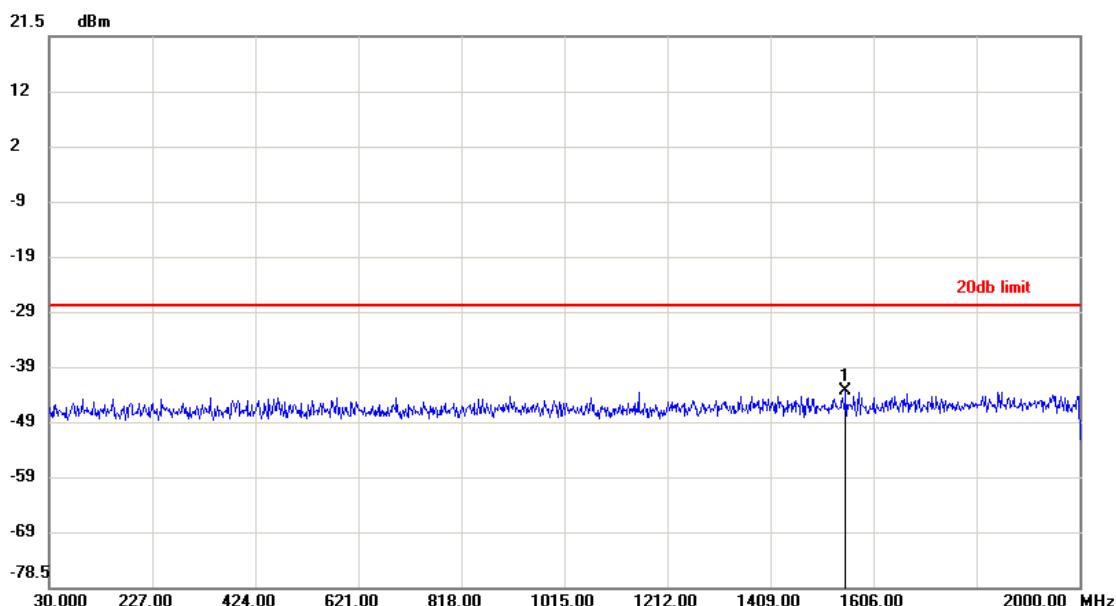


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Test mode:	802.11g	Test channel:	Middle
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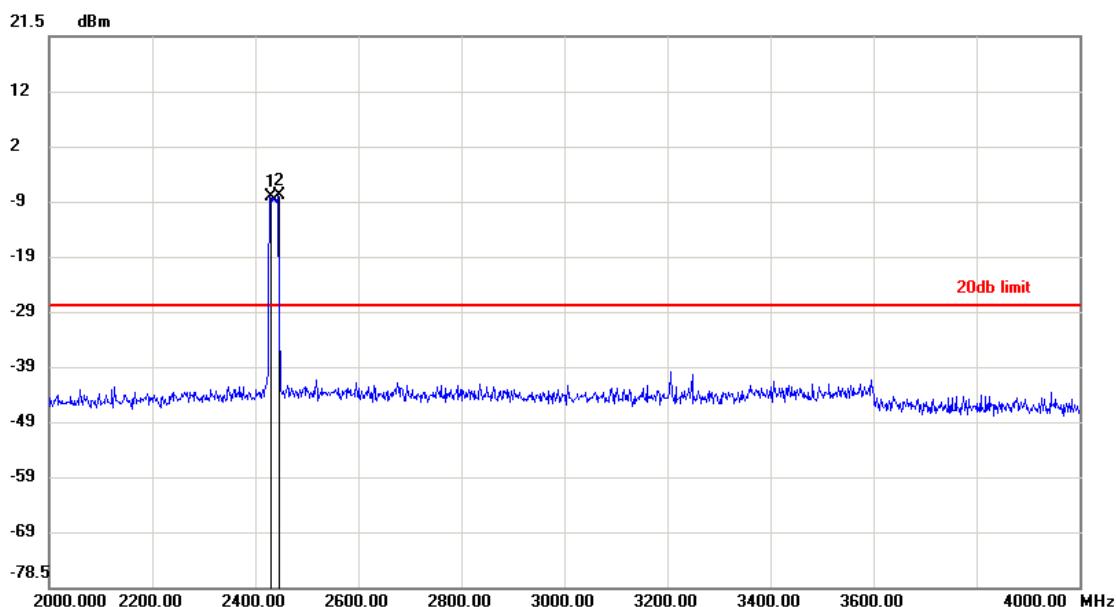


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2364.6950	-40.28	-27.36	-12.92
2	2433.7787	-7.36	-27.36	20.00

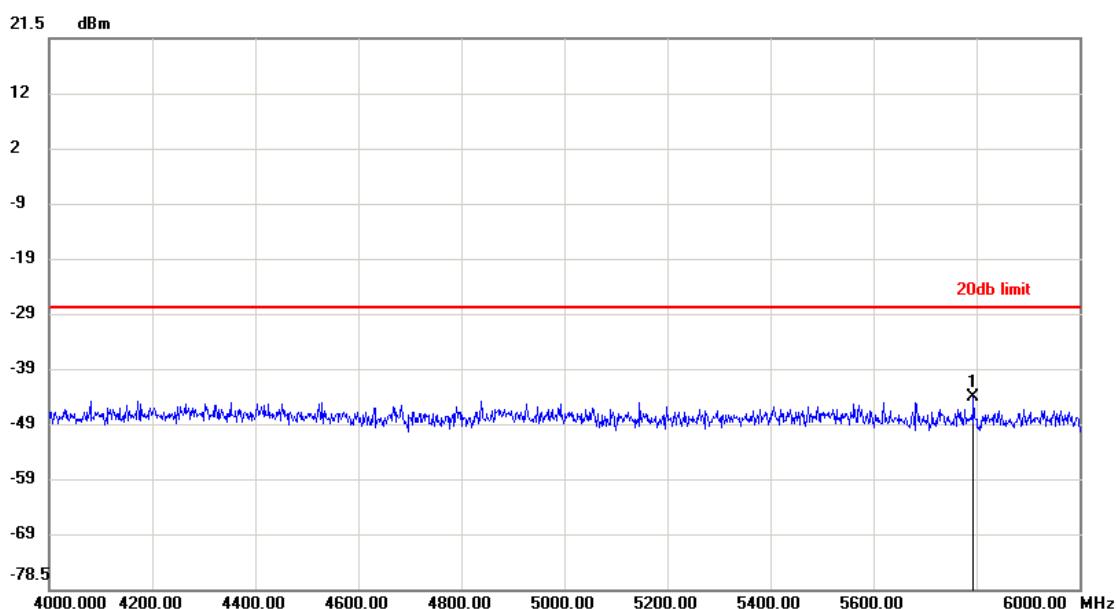


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1553.0070	-42.82	-27.29	-15.53

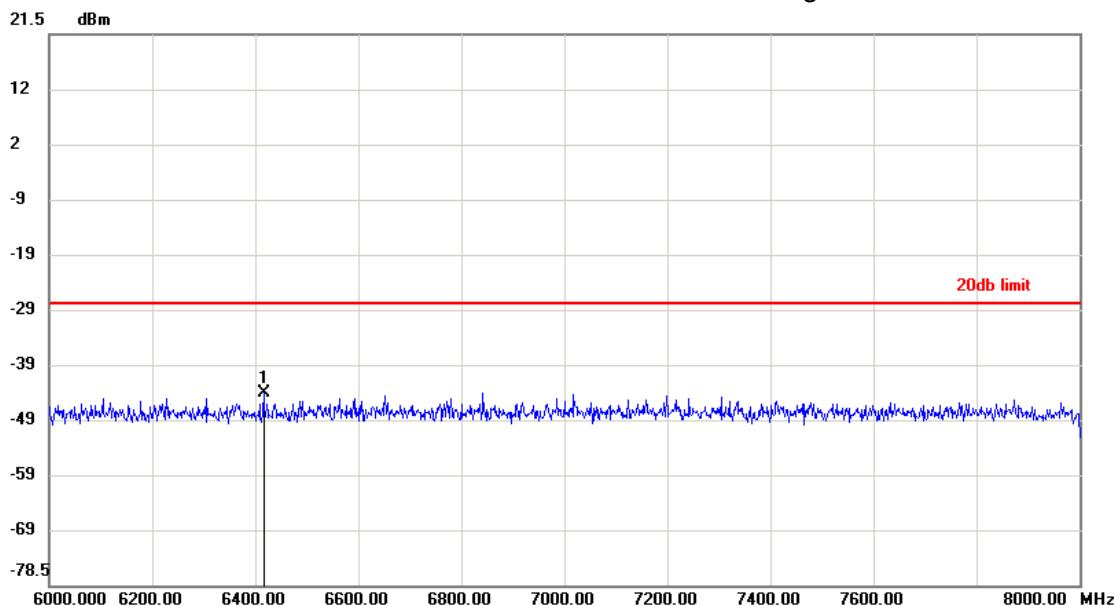
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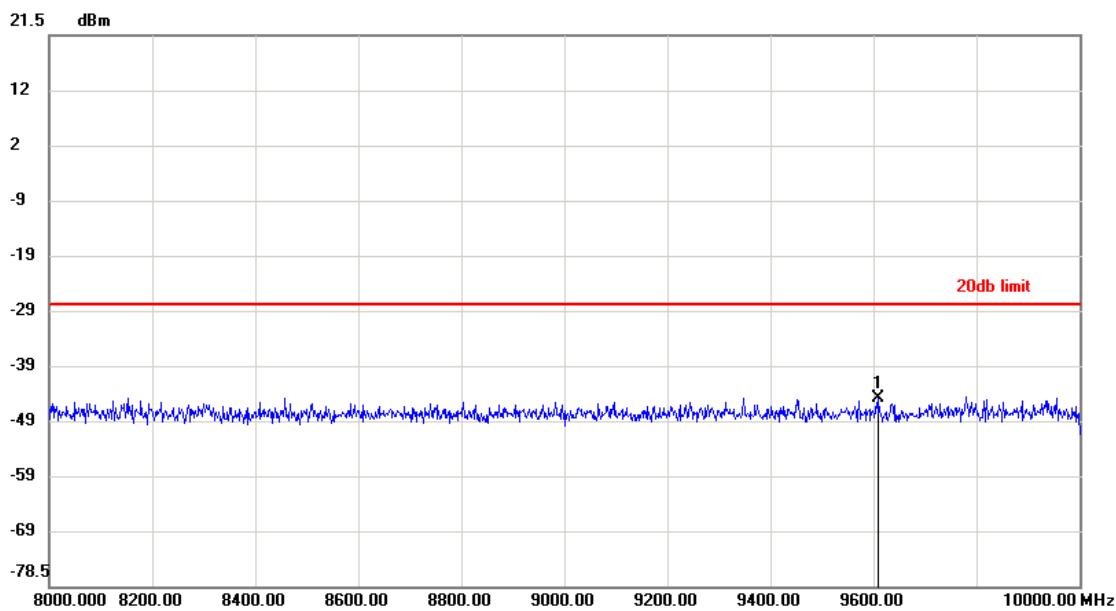
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2429.4667	-7.73	-27.29	19.56
2	2444.4667	-7.29	-27.29	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	5795.5333	-43.59	-27.29	-16.30

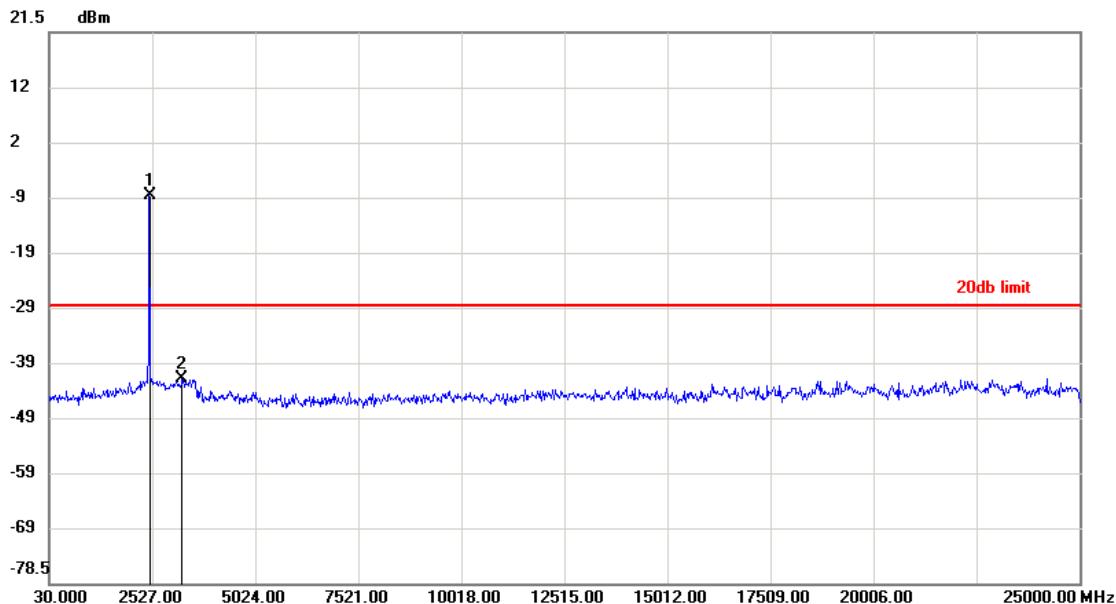


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6416.9333	-43.52	-27.29	-16.23

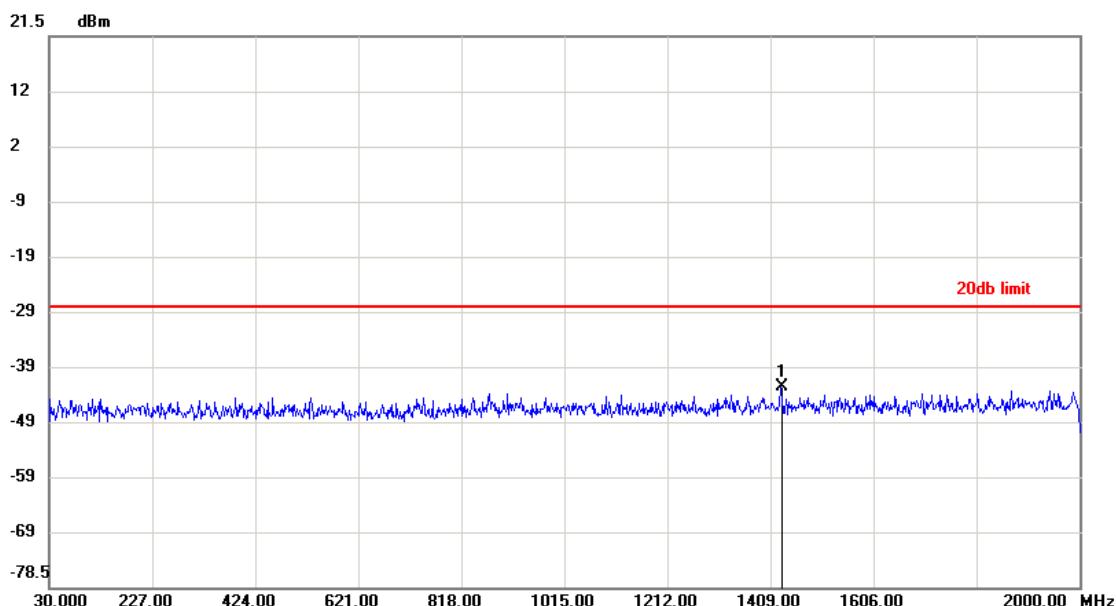


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9610.8000	-44.27	-27.29	-16.98

Test mode:	802.11g	Test channel:	Highest
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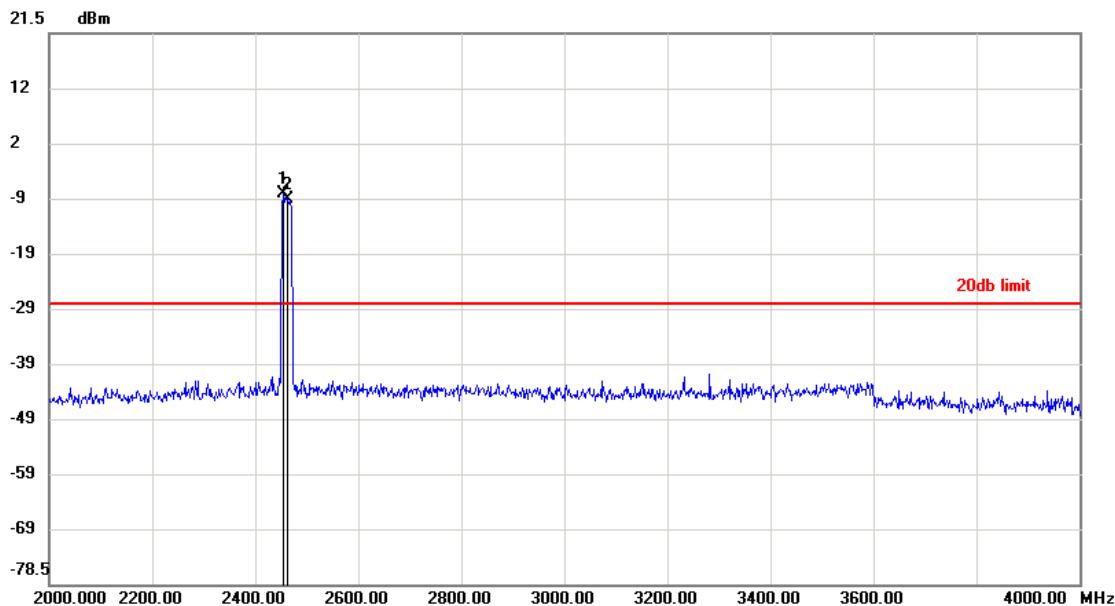


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.7547	-8.01	-28.01	20.00
2	3271.9383	-41.40	-28.01	-13.39

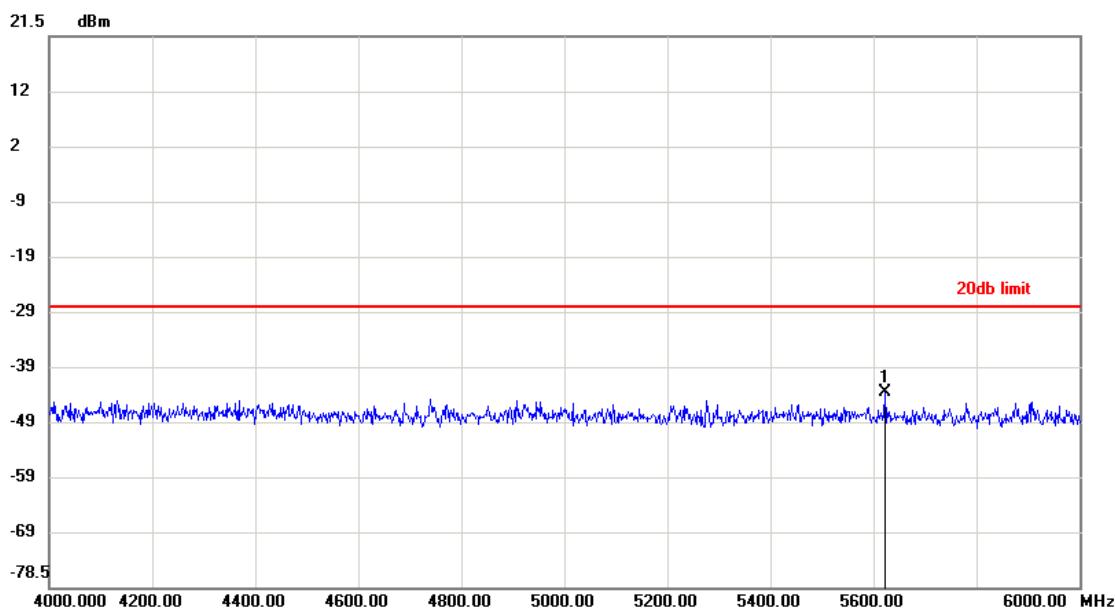


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1430.1447	-42.18	-27.66	-14.52

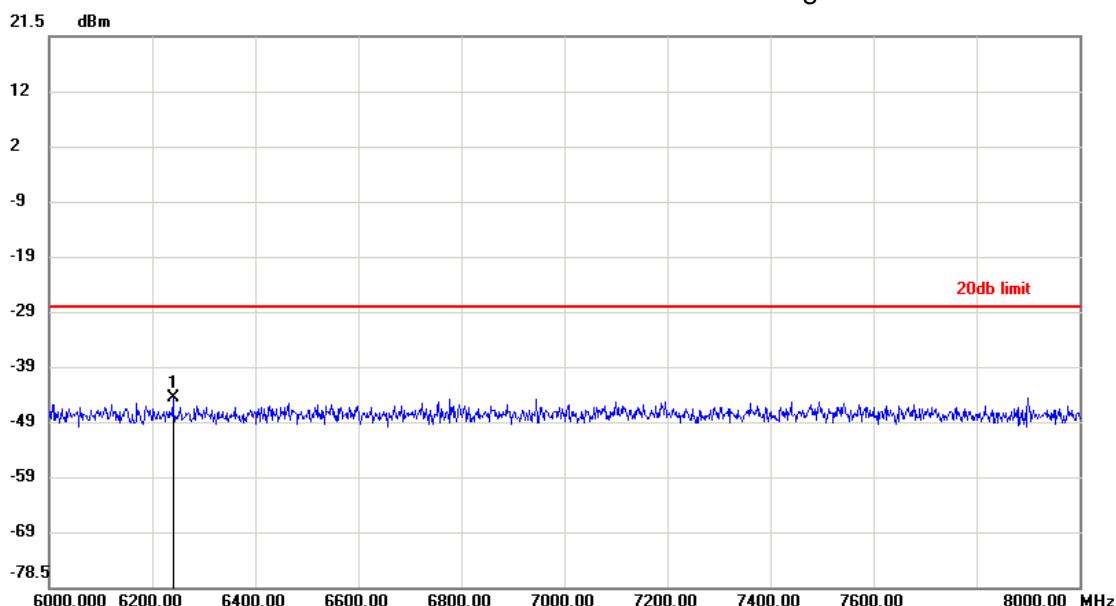
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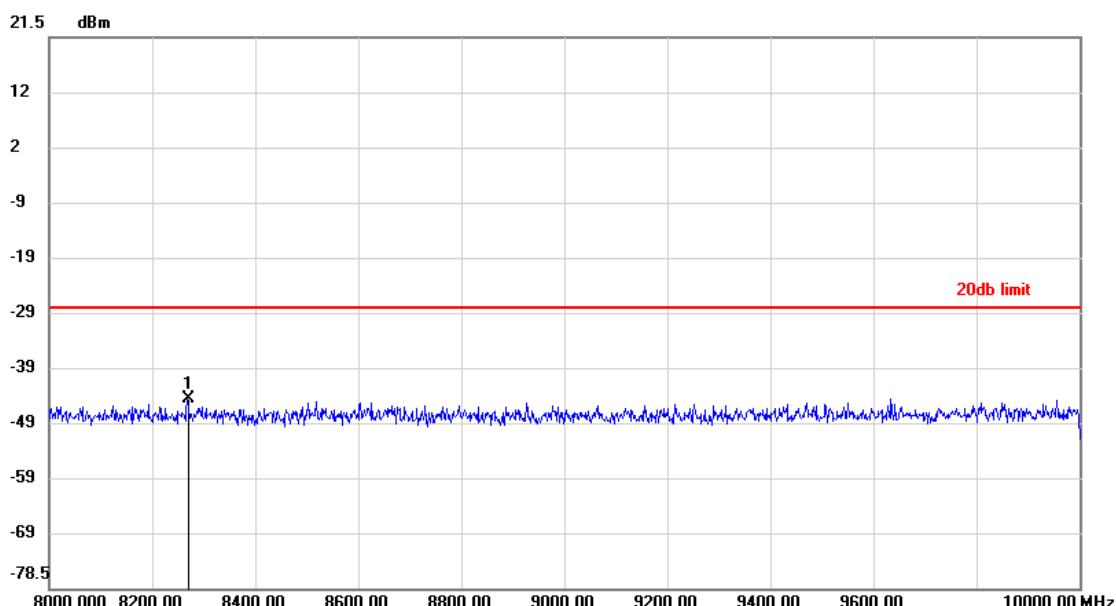
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2454.2000	-7.66	-27.66	20.00
2	2463.2000	-8.51	-27.66	19.15



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	5623.5333	-43.08	-27.66	-15.42

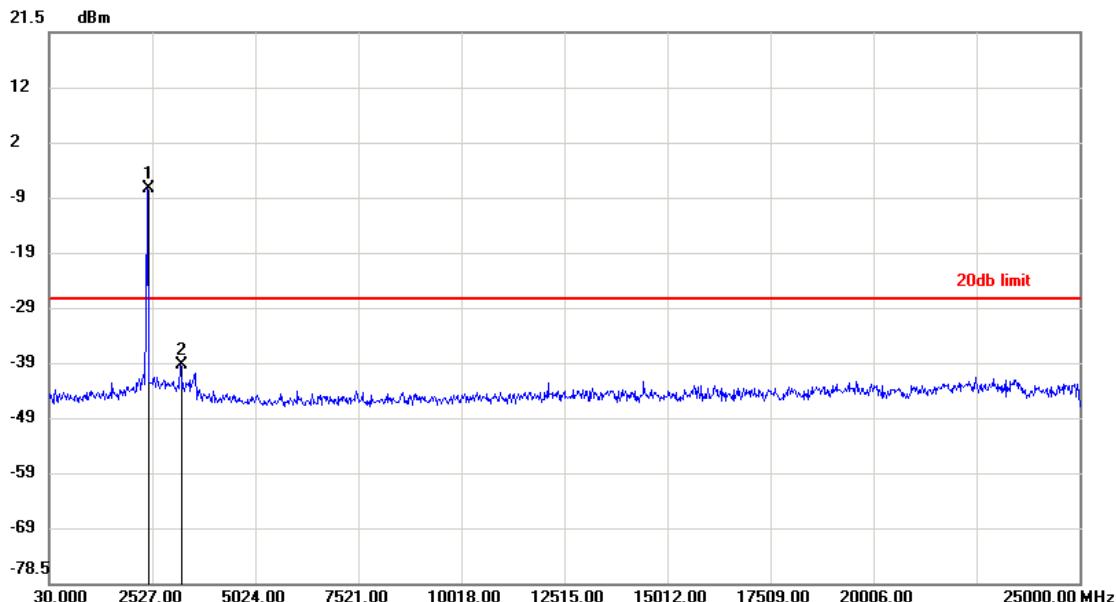


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6240.0667	-44.13	-27.66	-16.47

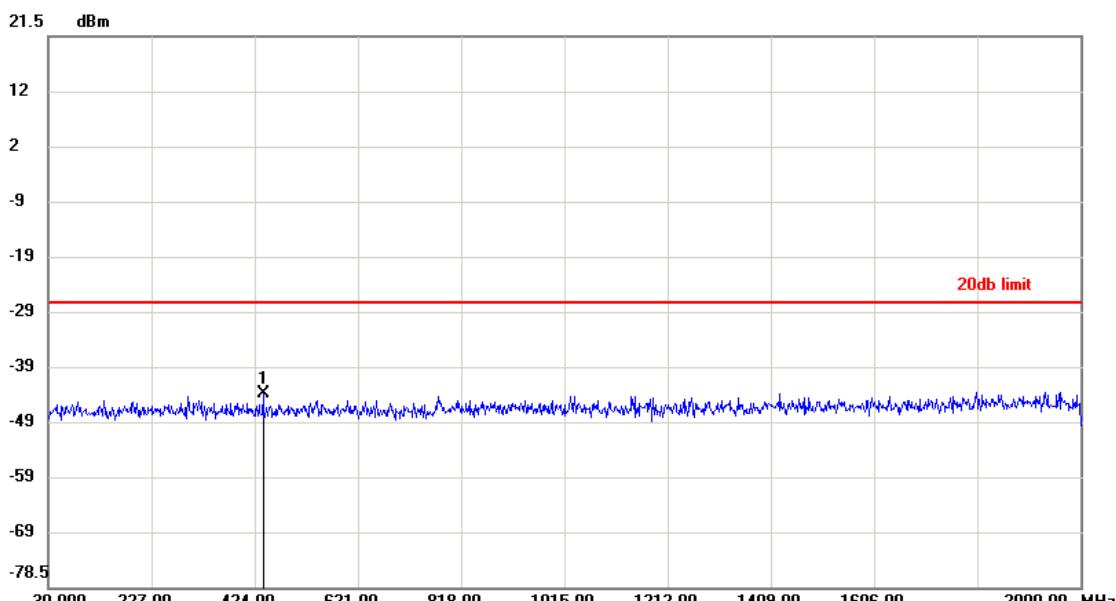


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8269.2667	-44.10	-27.66	-16.44

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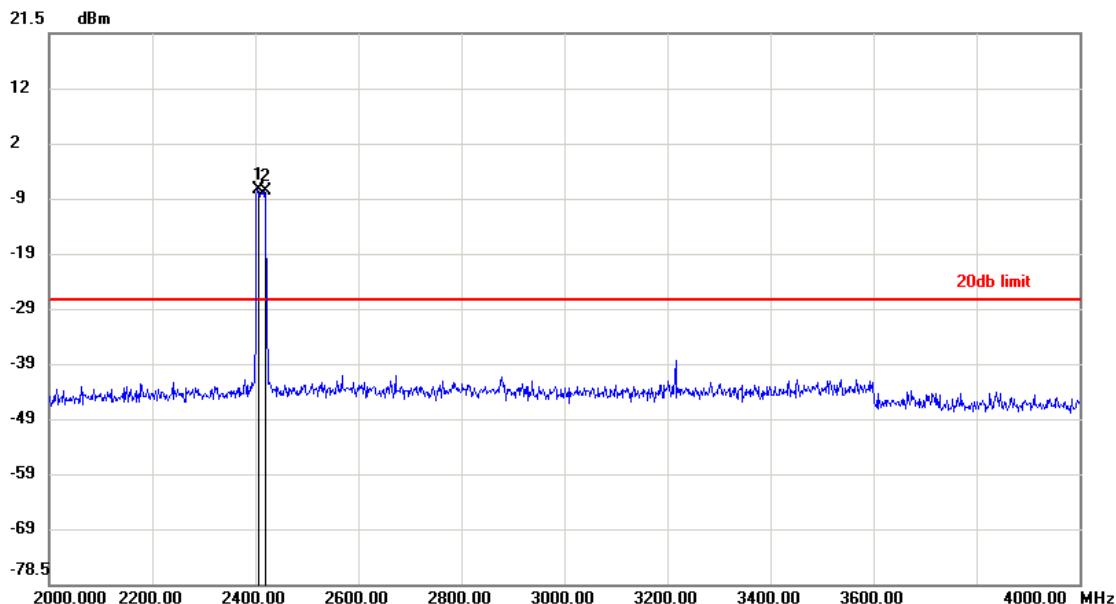


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.3117	-6.86	-26.86	20.00
2	3215.3397	-38.86	-26.86	-12.00

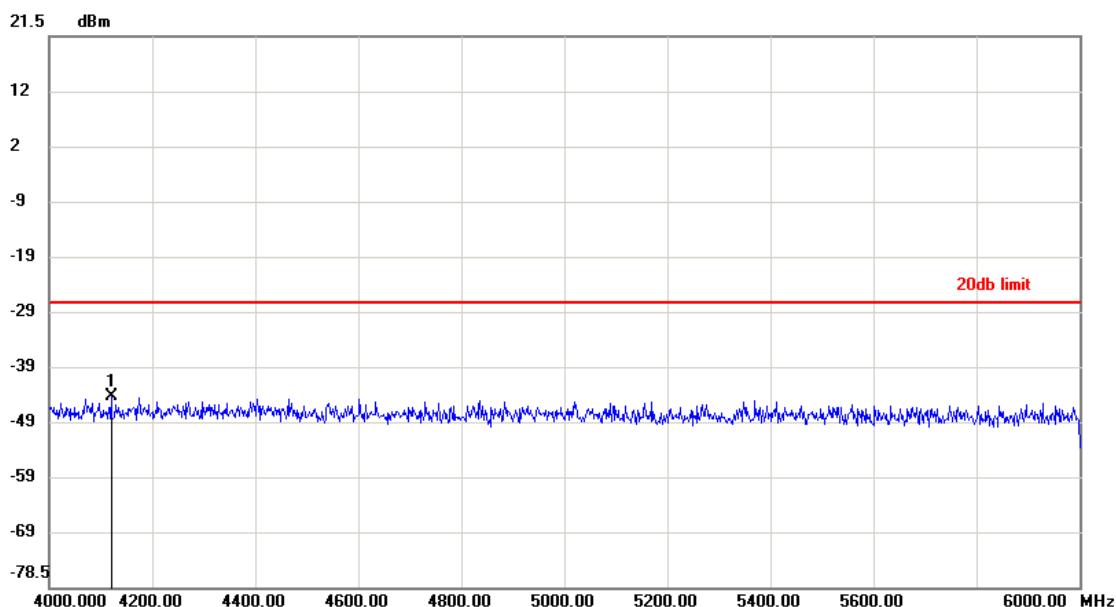


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	440.4823	-43.31	-26.98	-16.33

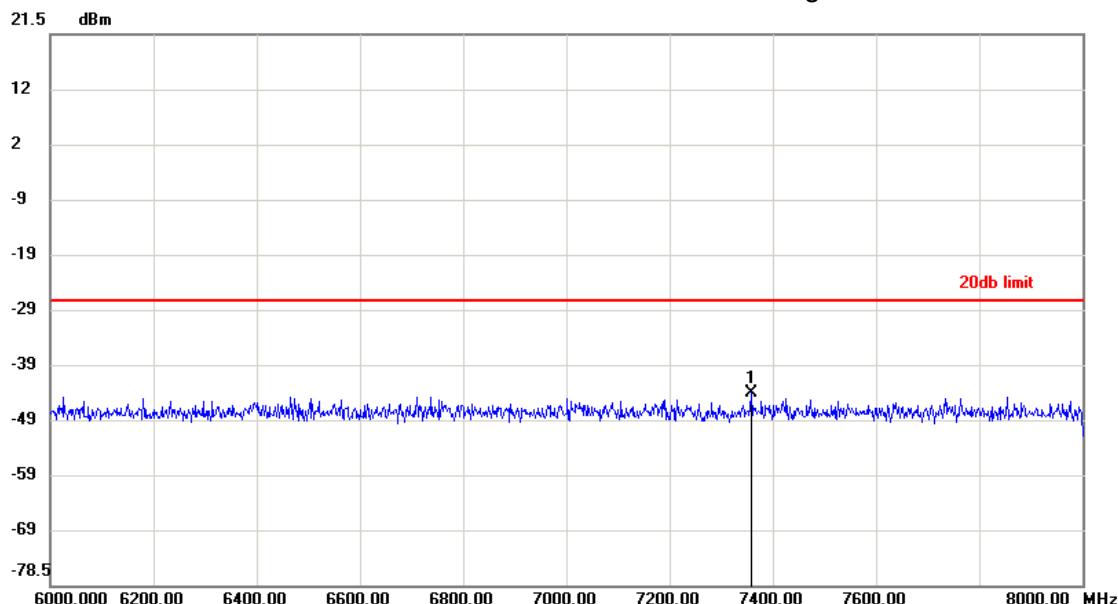
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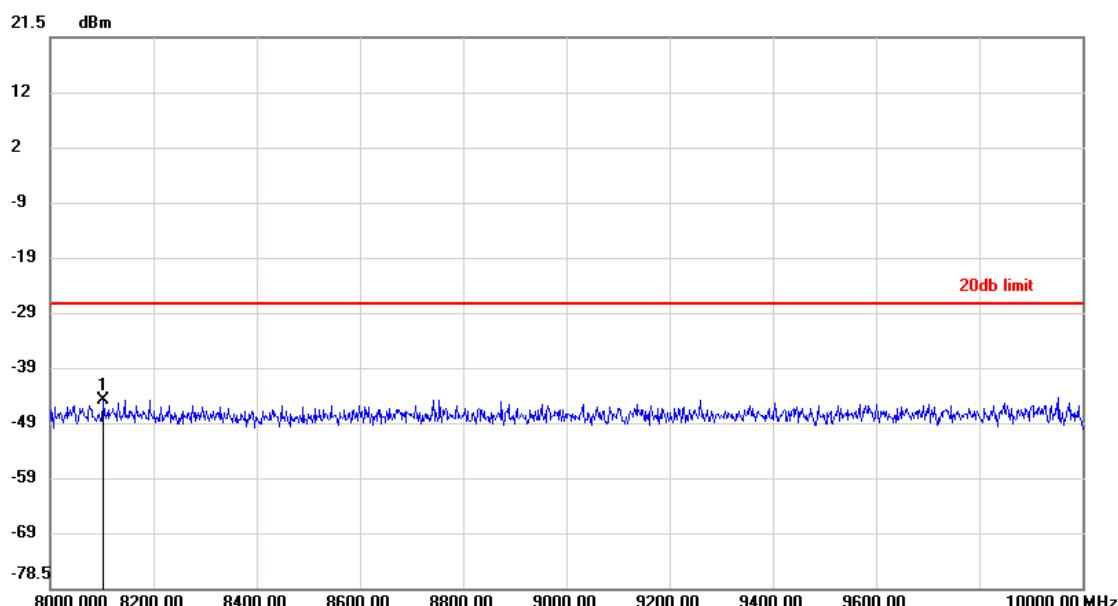
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2405.4667	-6.98	-26.98	20.00
2	2419.4667	-7.21	-26.98	19.77



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4121.8000	-43.84	-26.98	-16.86

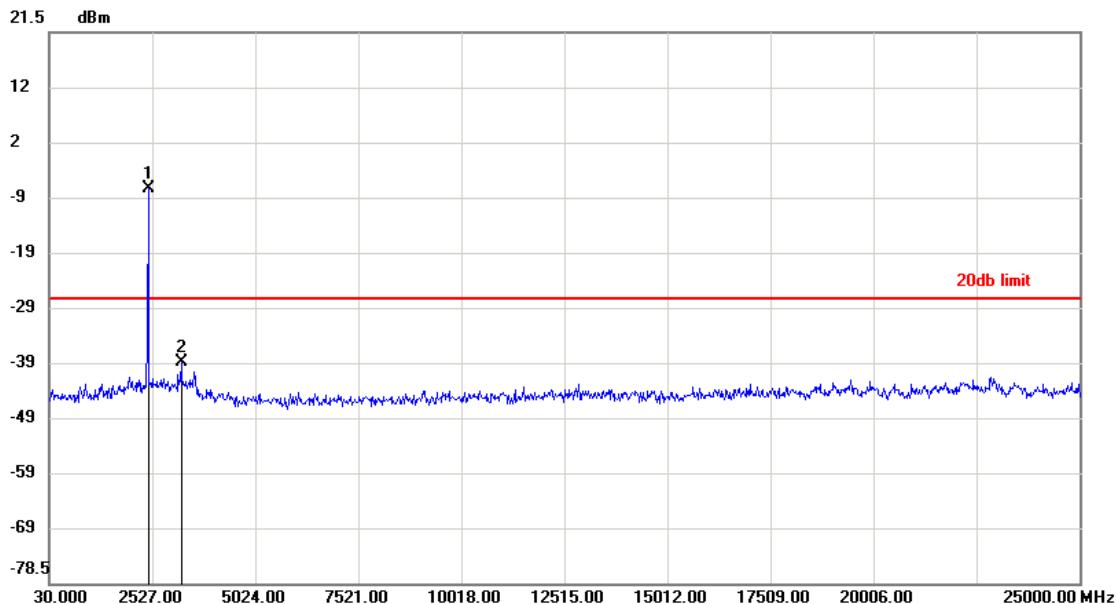


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7359.4000	-43.60	-26.98	-16.62

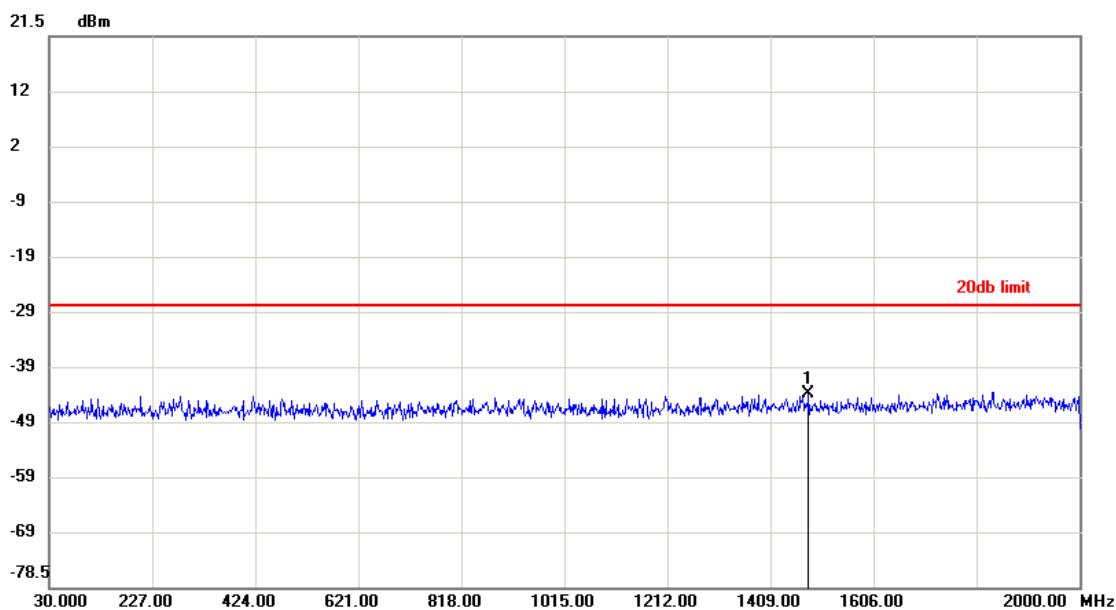


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8102.5333	-44.29	-26.98	-17.31

Test mode:	802.11n(HT20)	Test channel:	Middle
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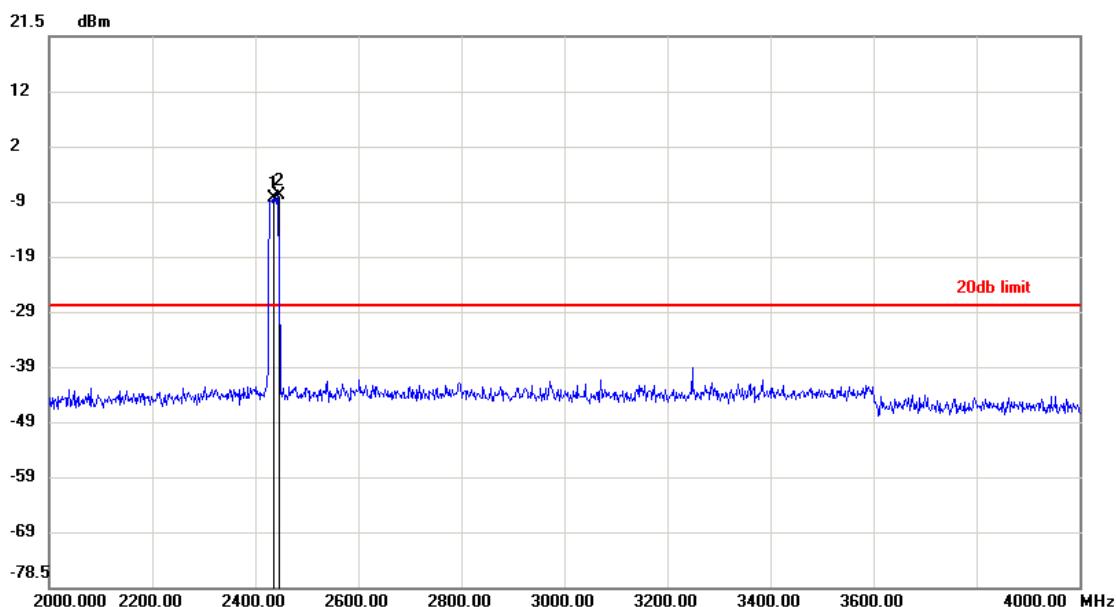
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.2817	-6.96	-26.96	20.00
2	3249.4653	-38.48	-26.96	-11.52



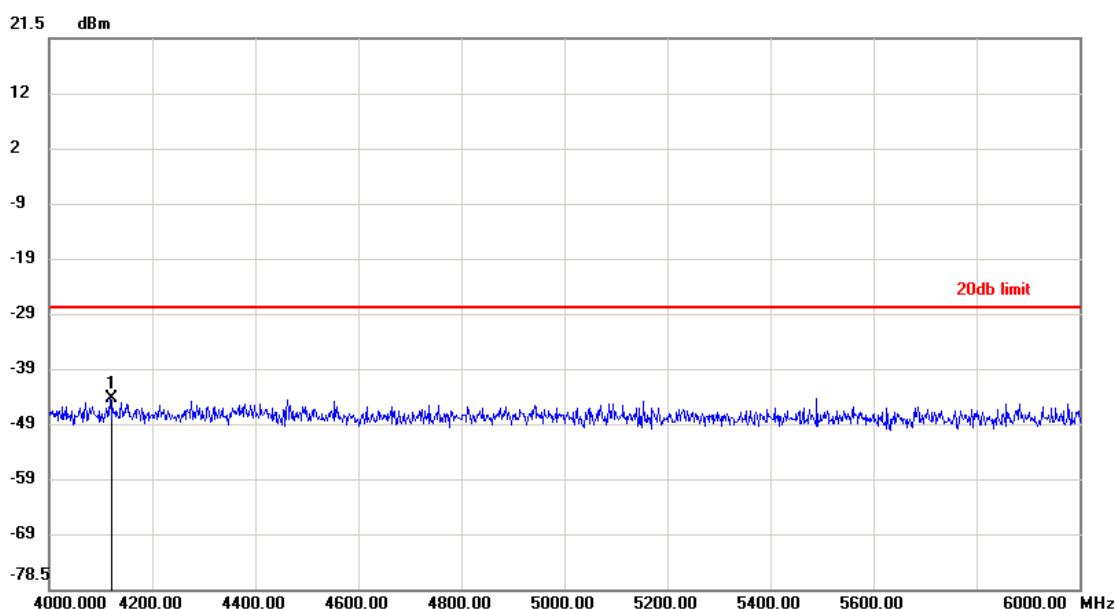
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1483.4660	-43.27	-27.36	-15.91



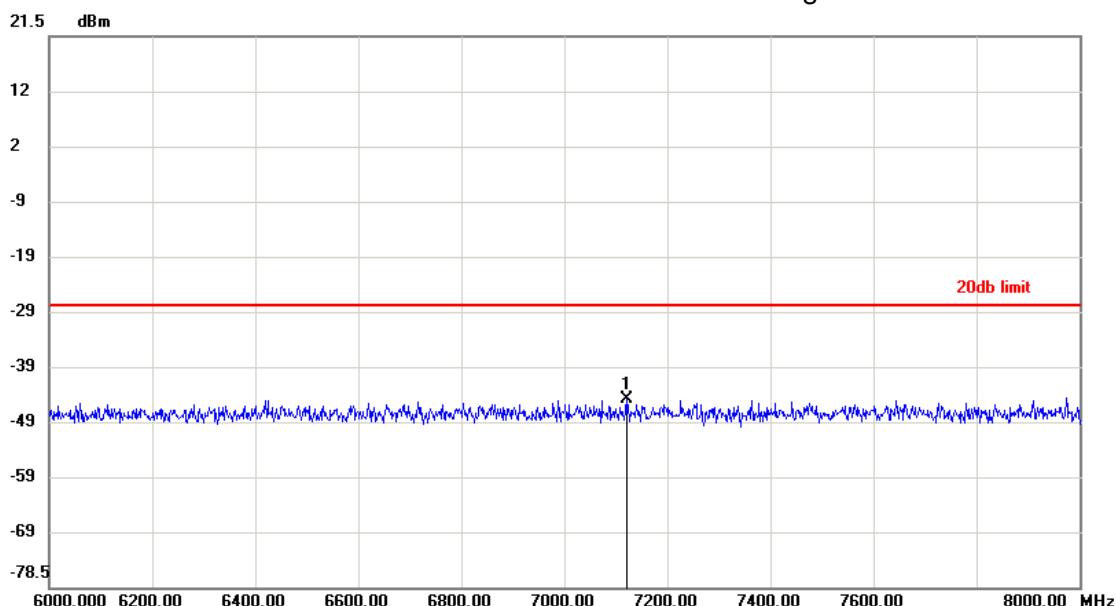
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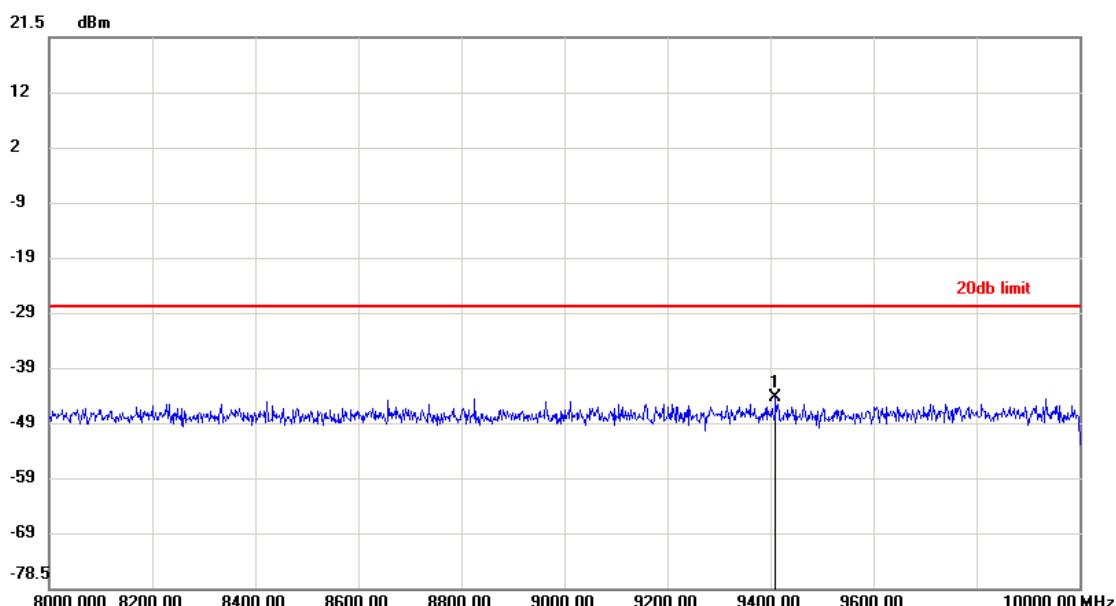
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.3333	-7.82	-27.36	19.54
2	2444.4667	-7.36	-27.36	20.00



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4118.0667	-43.84	-27.36	-16.48

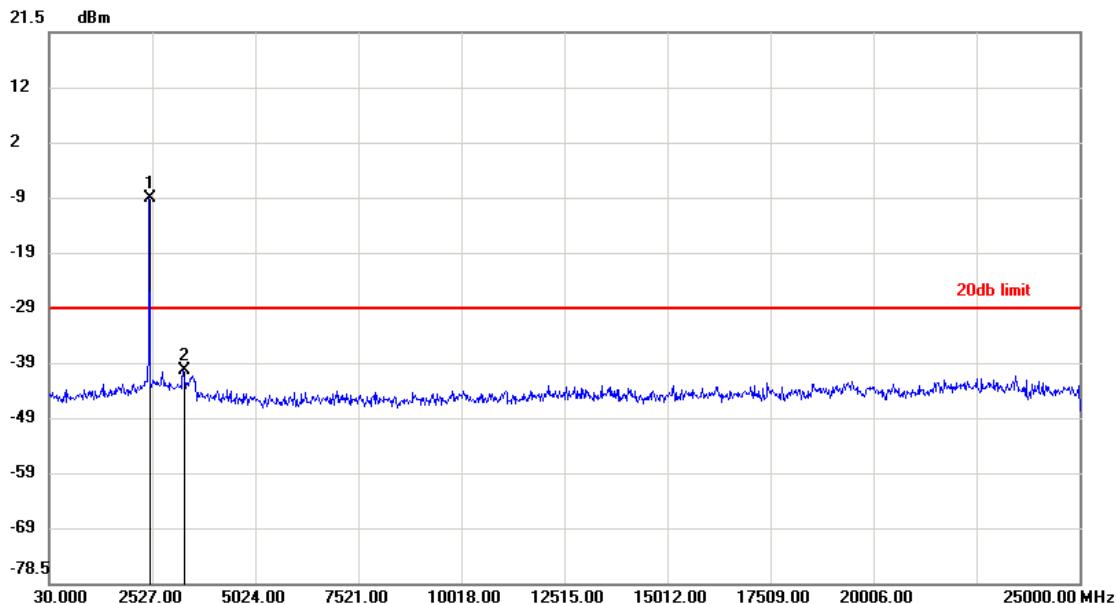


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7121.5333	-44.44	-27.36	-17.08

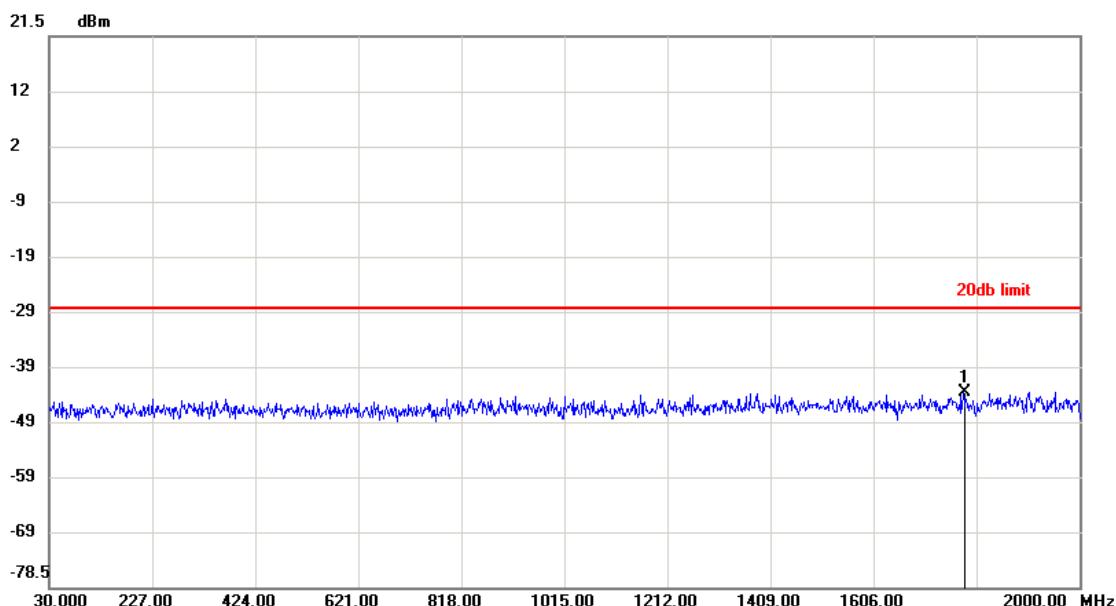


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9410.0000	-43.86	-27.36	-16.50

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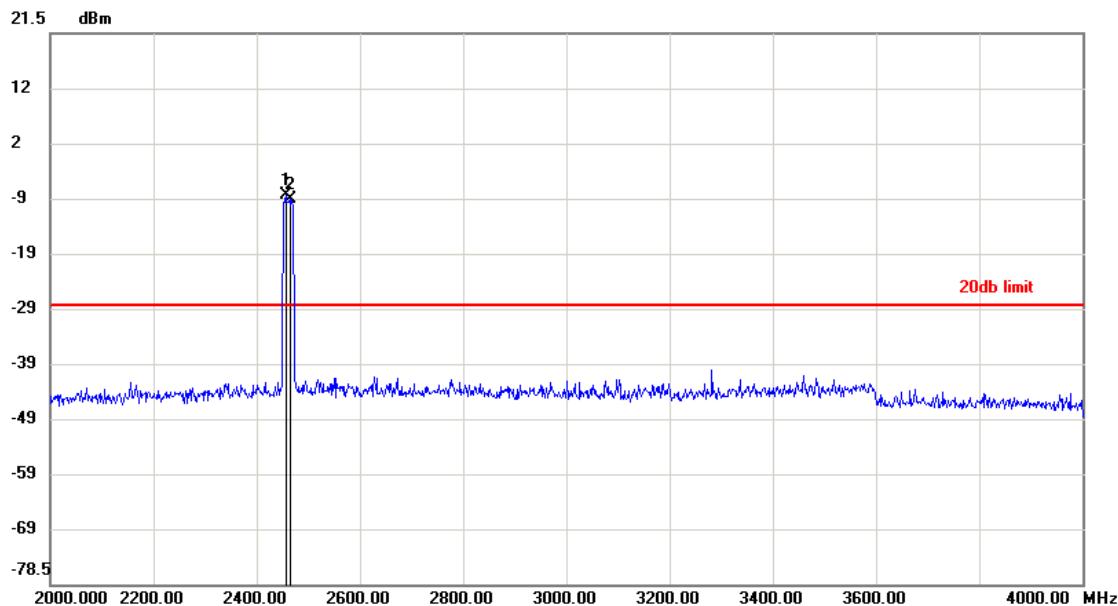


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2468.7367	-8.51	-28.51	20.00
2	3282.7587	-39.79	-28.51	-11.28

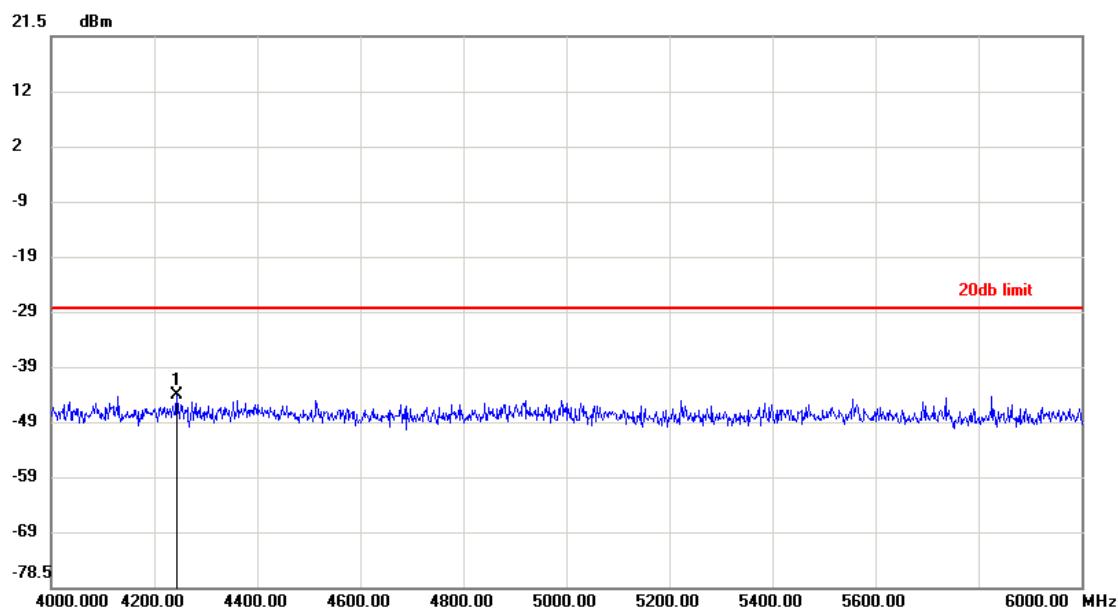


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1779.0317	-43.10	-27.94	-15.16

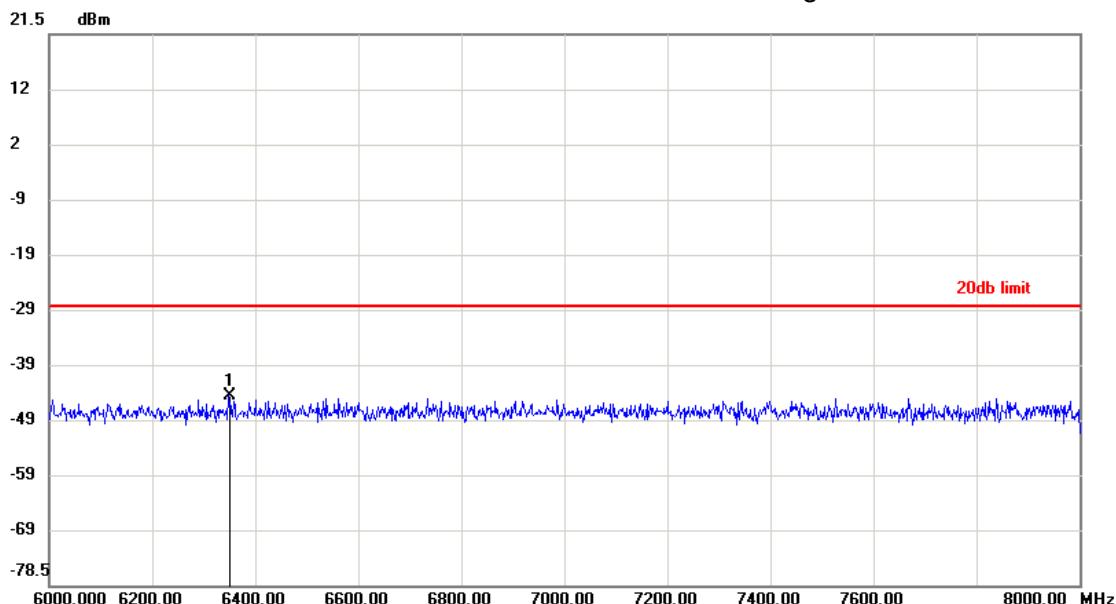
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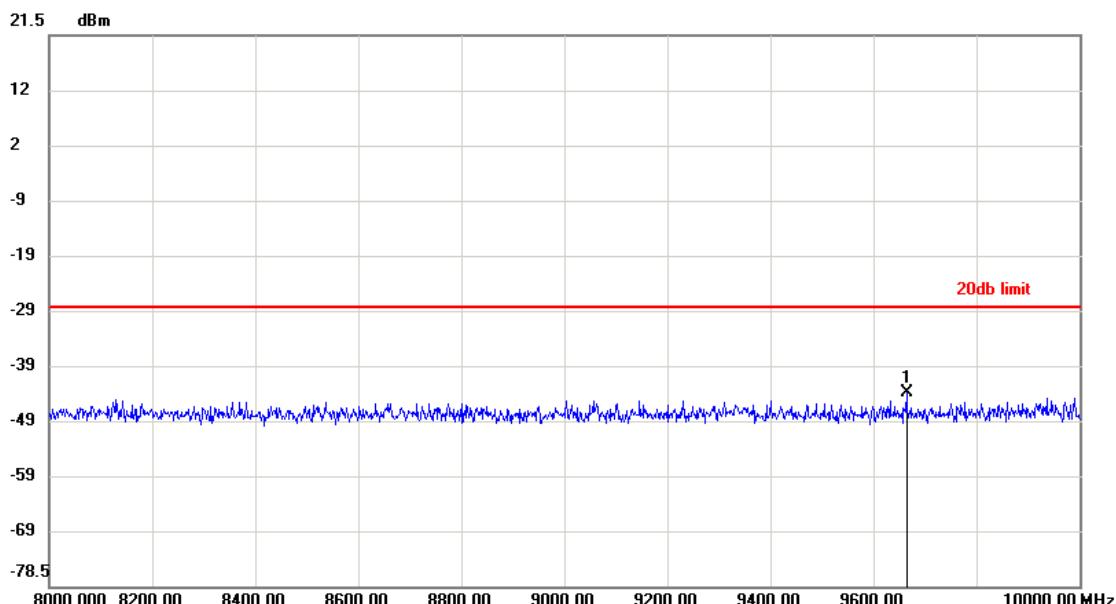
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2456.6000	-7.94	-27.94	20.00
2	2465.7333	-8.53	-27.94	19.41



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4244.8000	-43.69	-27.94	-15.75

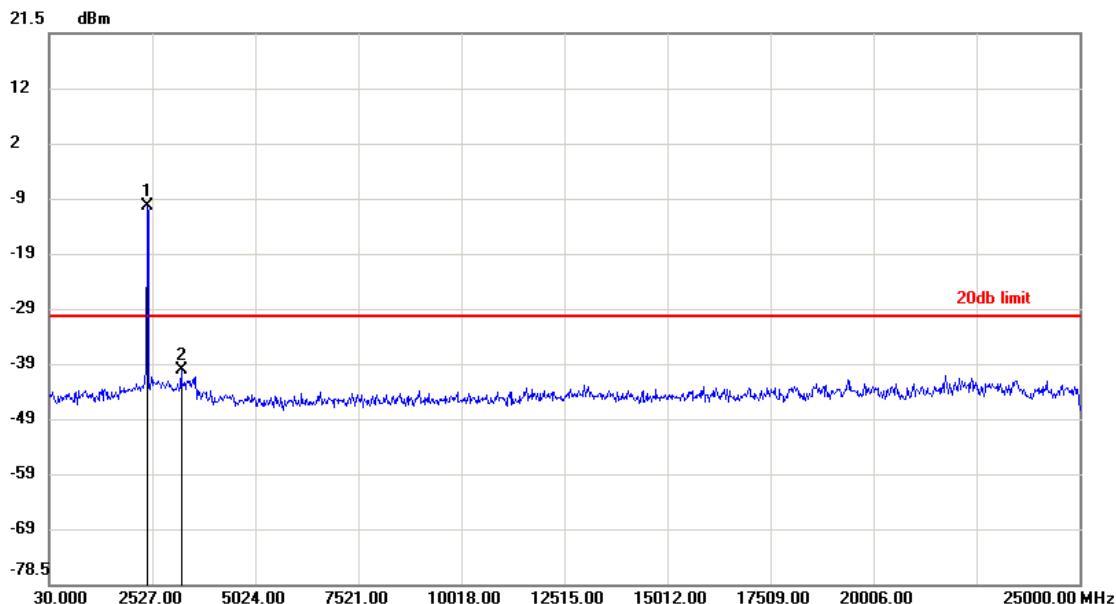


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6349.4667	-44.05	-27.94	-16.11

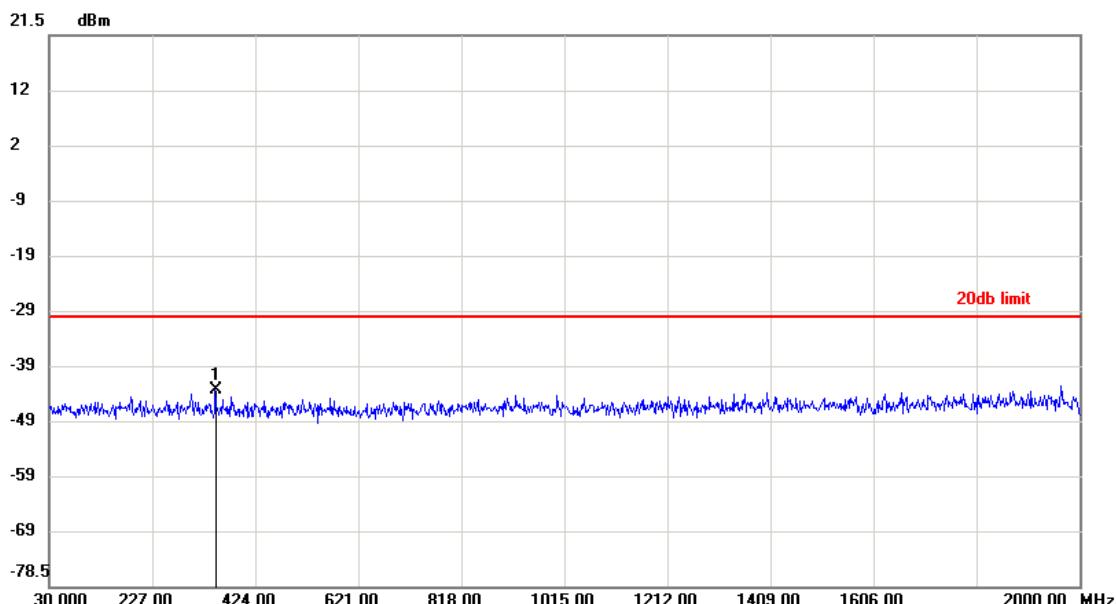


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9664.7333	-43.34	-27.94	-15.40

Test mode:	802.11n(HT40)	Test channel:	Lowest
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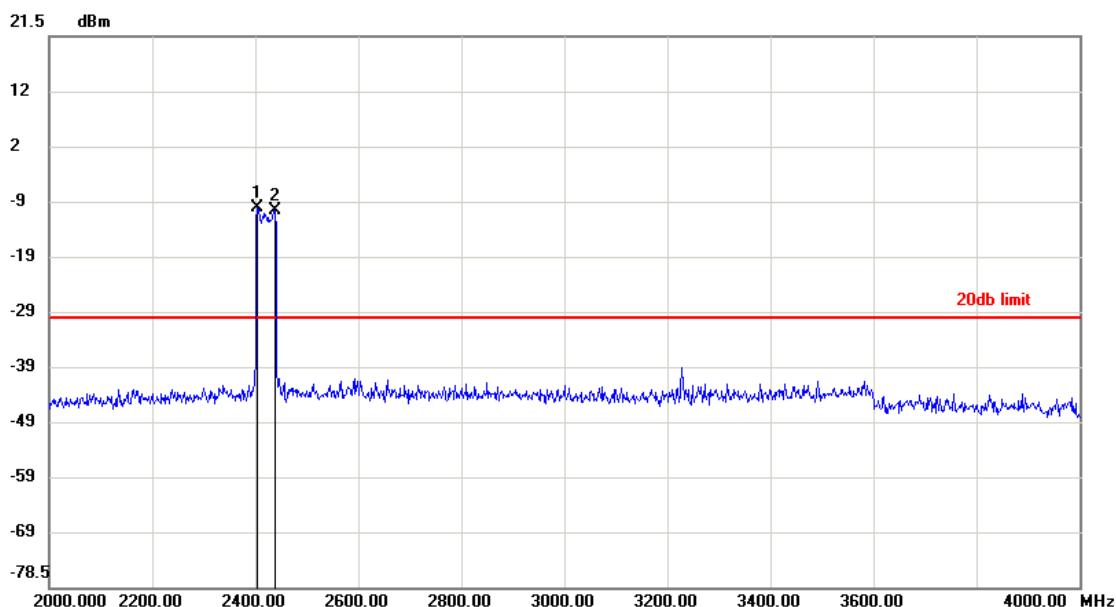


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2404.6470	-9.83	-29.83	20.00
2	3229.4893	-39.66	-29.83	-9.83

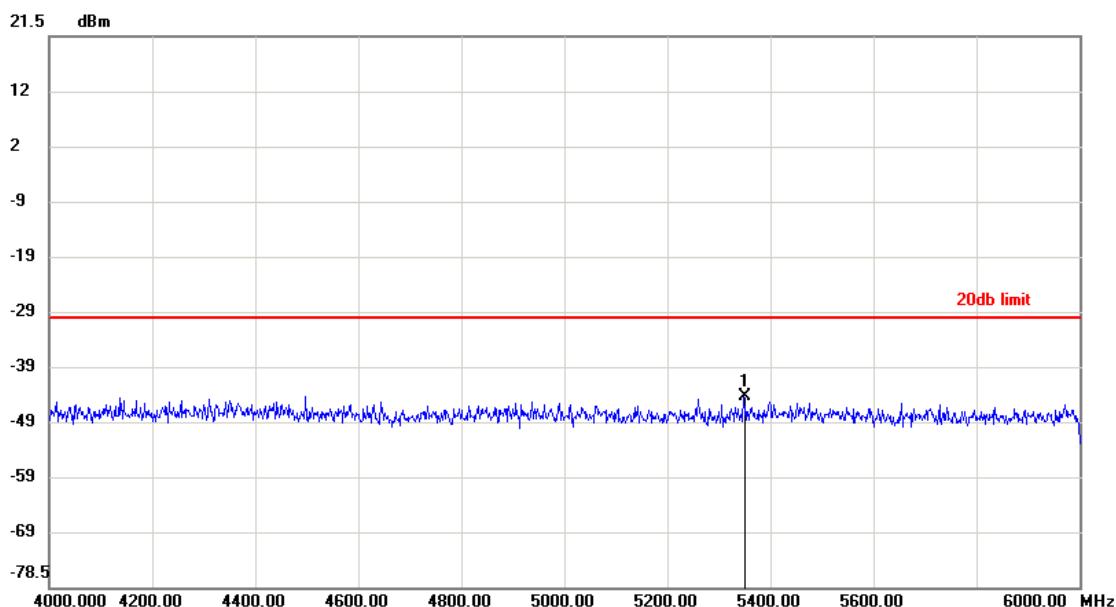


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	348.4177	-42.83	-29.68	-13.15

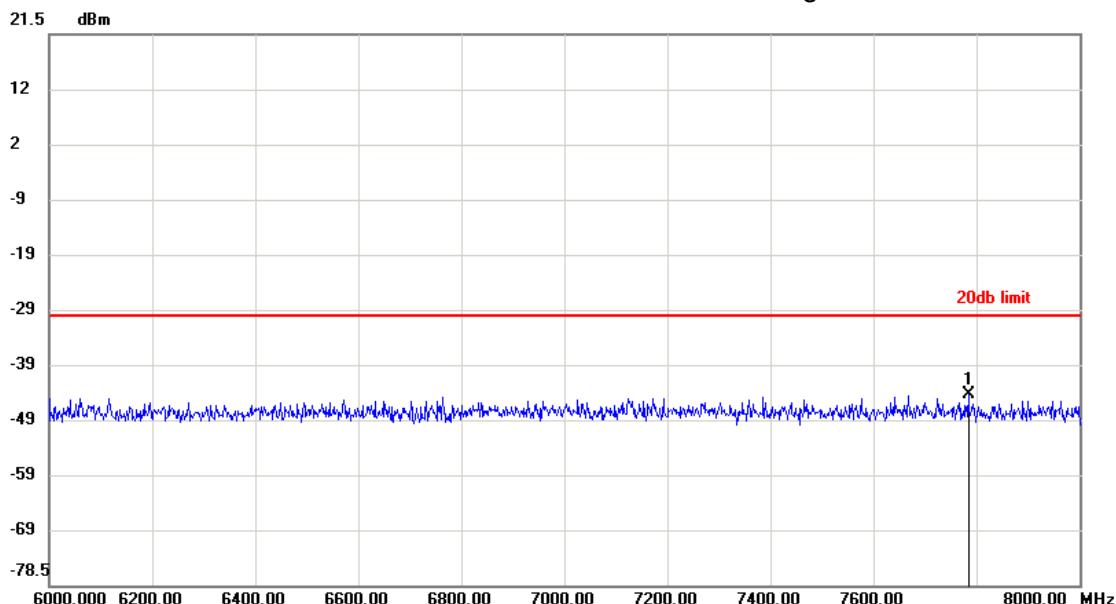
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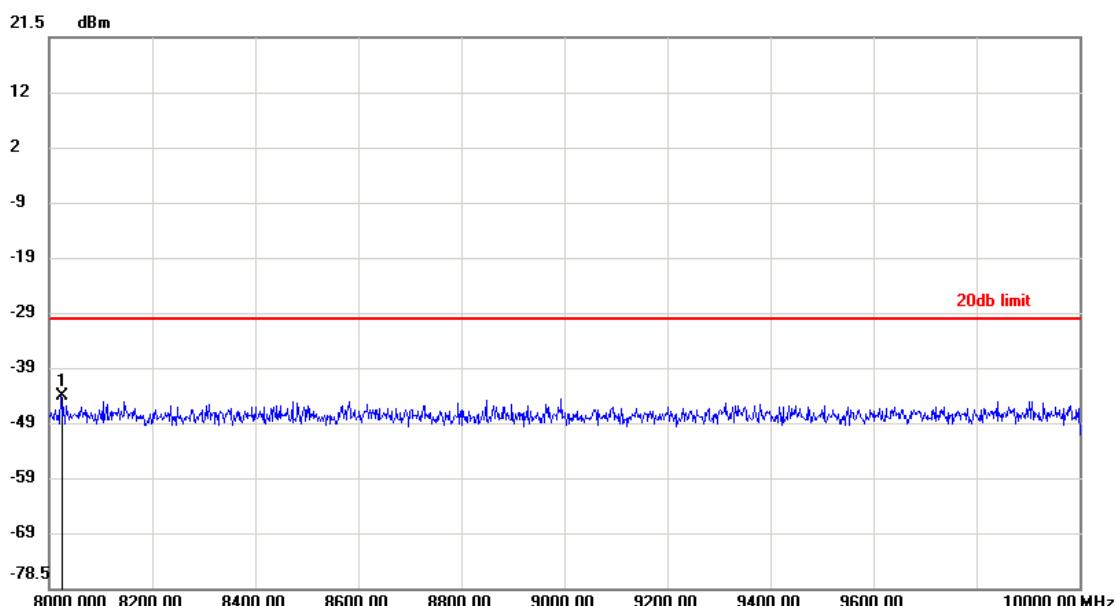
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2405.3333	-9.68	-29.68	20.00
2	2438.2000	-10.19	-29.68	19.49



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	5349.2667	-43.80	-29.68	-14.12

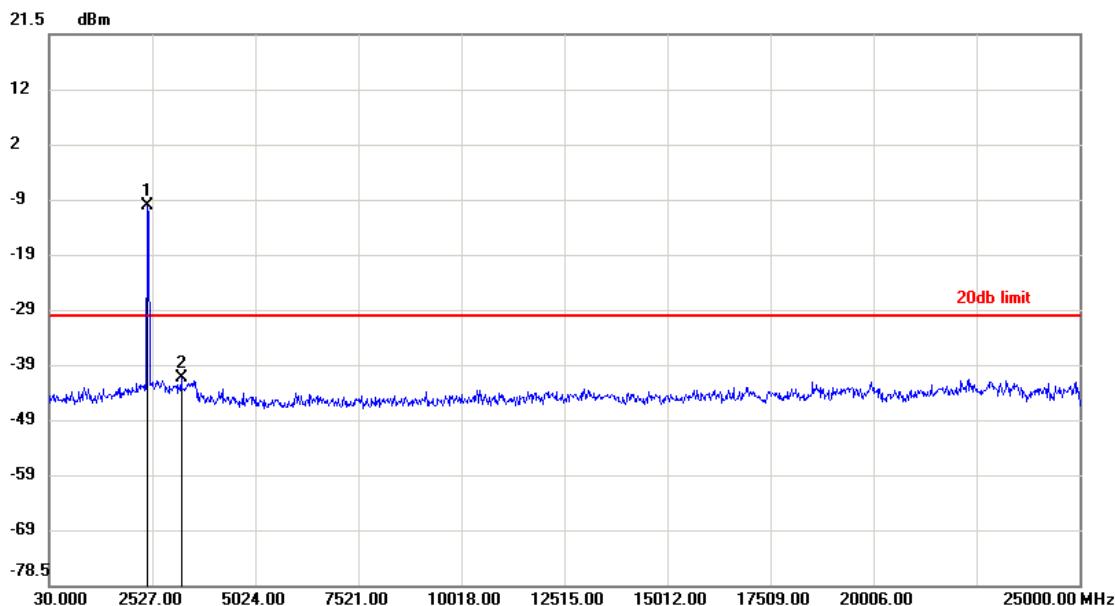


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7785.8000	-43.89	-29.68	-14.21

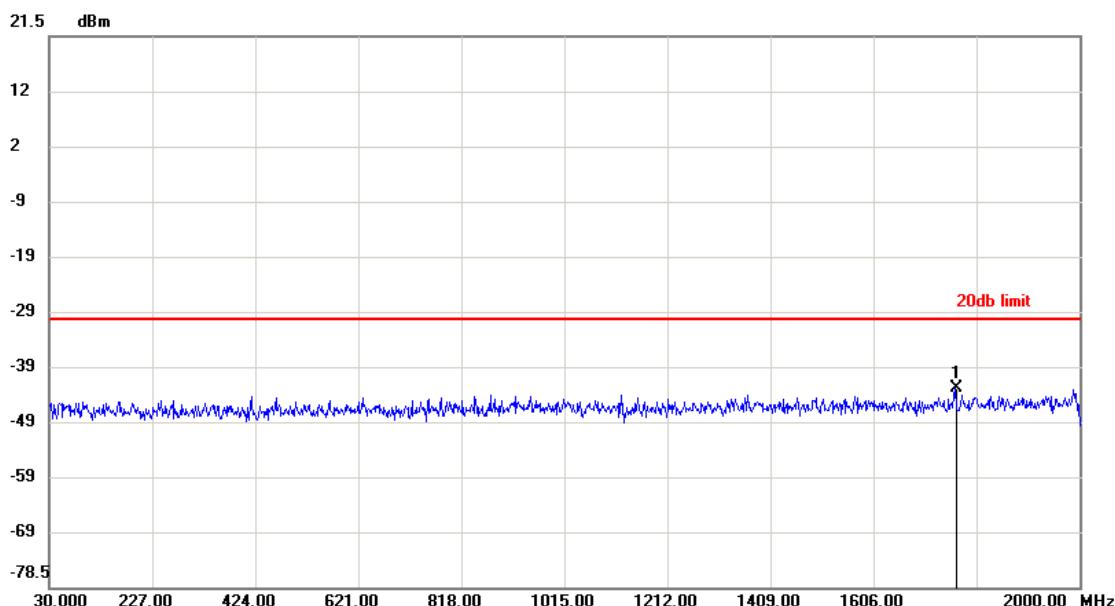


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8022.2667	-43.56	-29.68	-13.88

Test mode:	802.11n(HT40)	Test channel:	Middle
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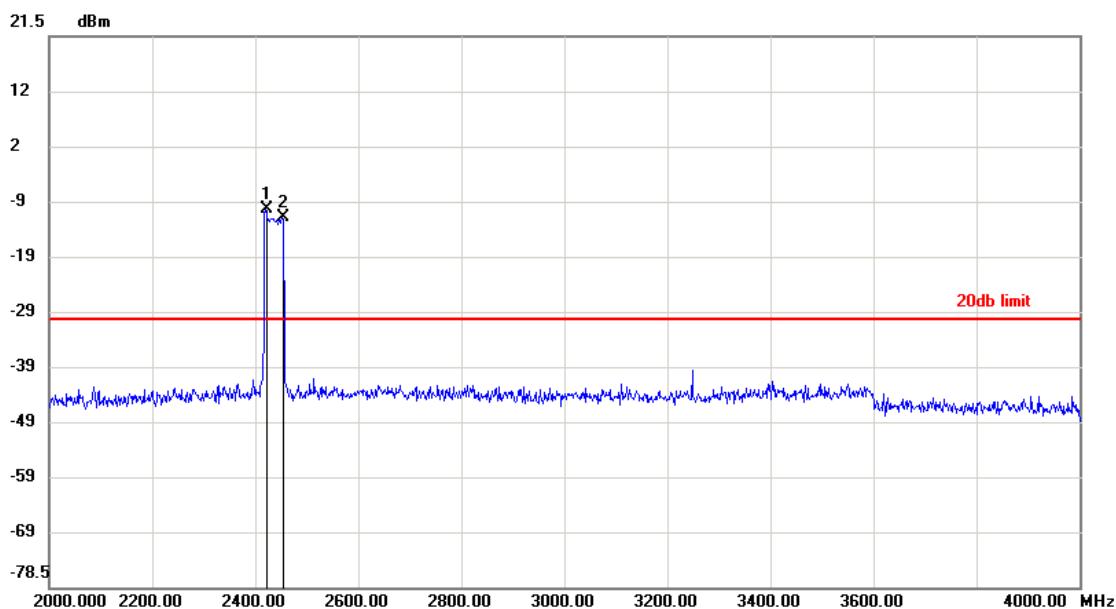


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2420.4613	-9.74	-29.74	20.00
2	3249.4653	-40.79	-29.74	-11.05

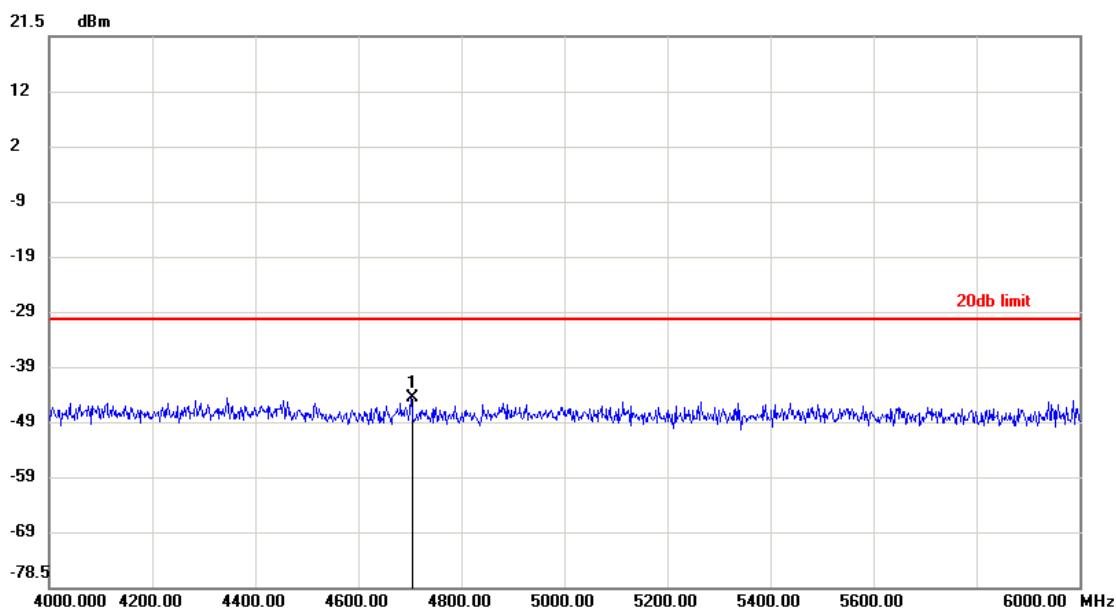


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1762.8777	-42.32	-29.86	-12.46

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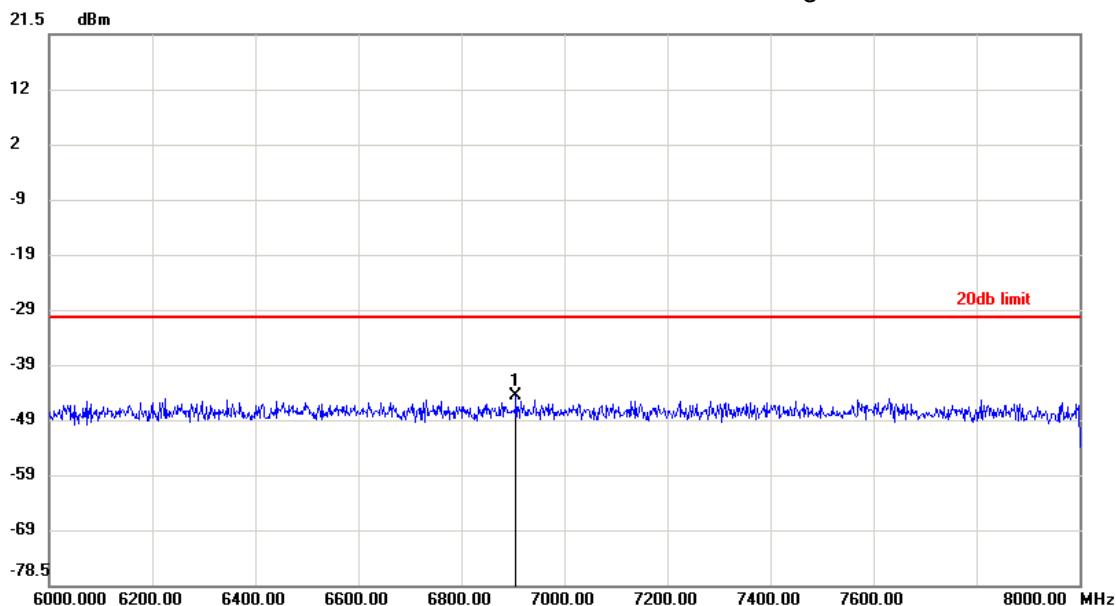


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2420.4667	-9.86	-29.86	20.00
2	2453.4667	-11.30	-29.86	18.56

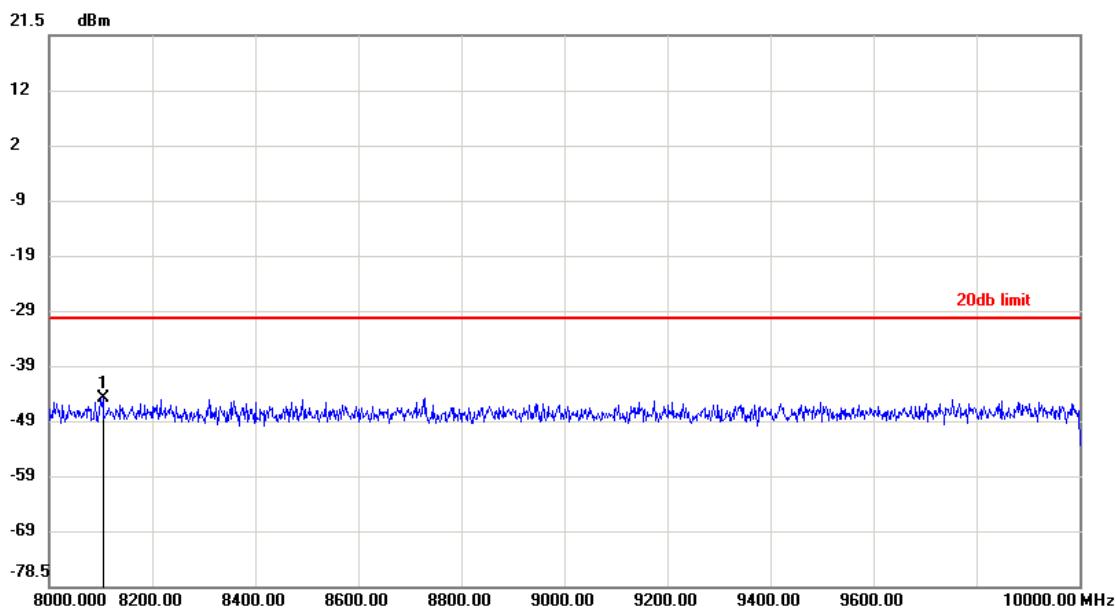


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4702.4667	-44.02	-29.86	-14.16



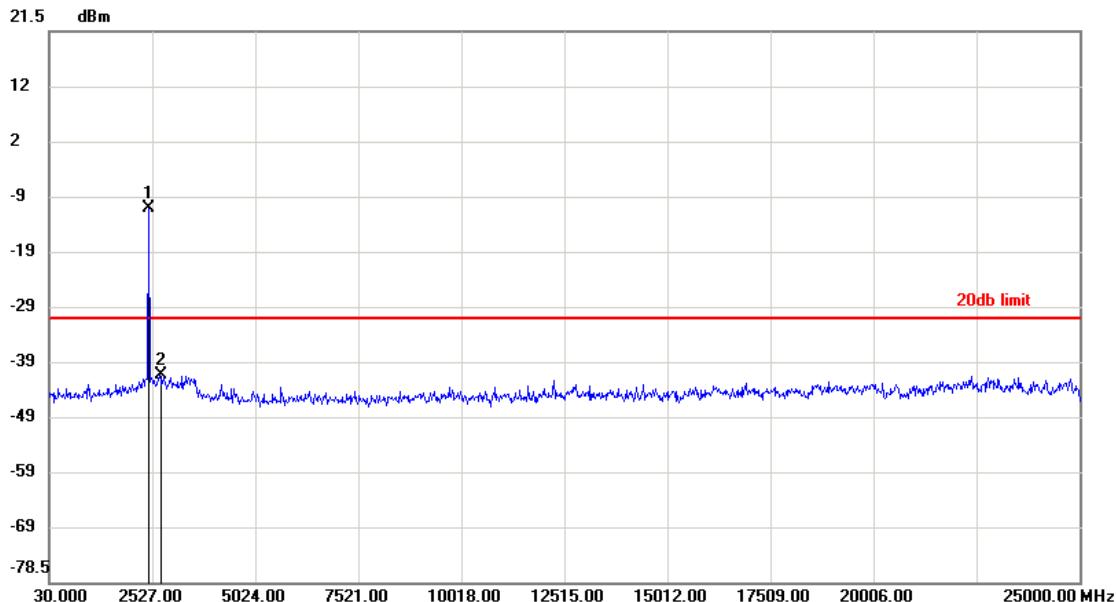


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	6907.9333	-44.14	-29.86	-14.28

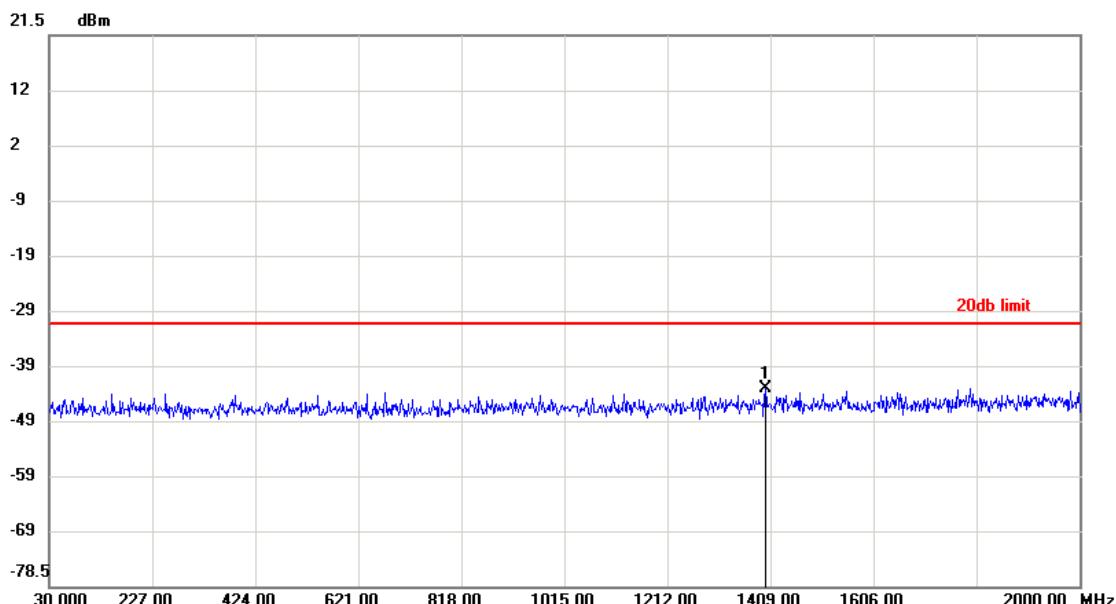


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	8105.8667	-44.29	-29.86	-14.43

Test mode:	802.11n(HT40)	Test channel:	Highest
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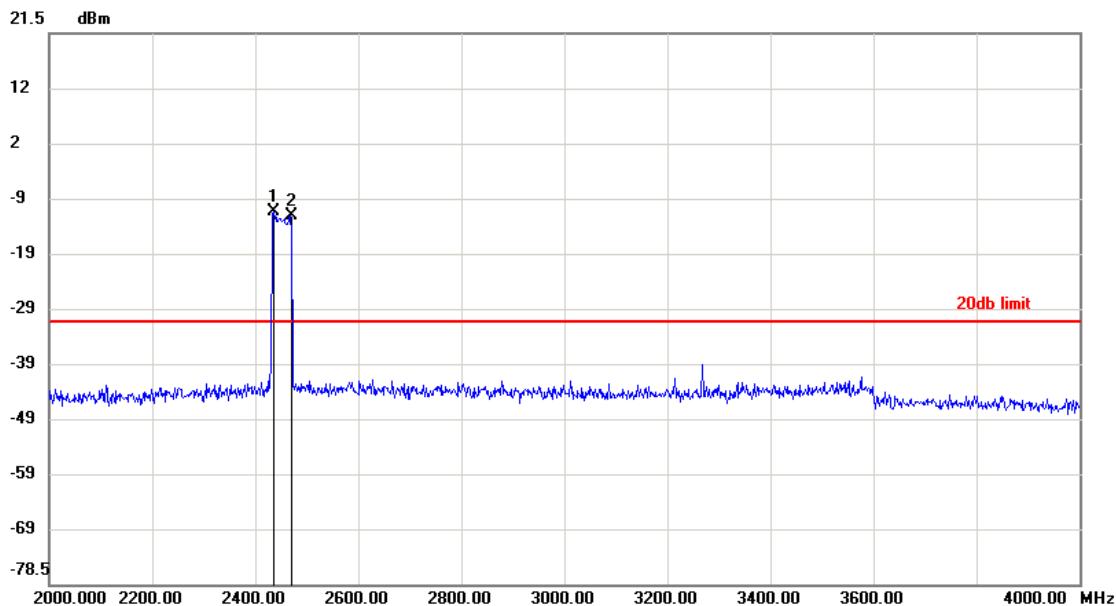


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.2757	-10.51	-30.51	20.00
2	2718.4367	-40.82	-30.51	-10.31

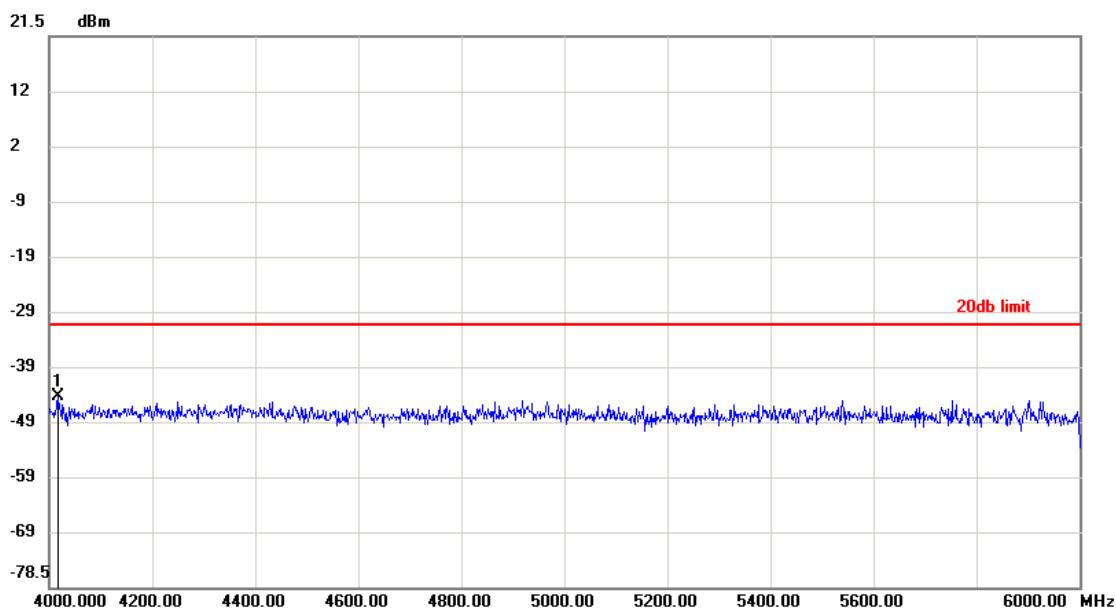


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1400.6603	-42.58	-30.94	-11.64

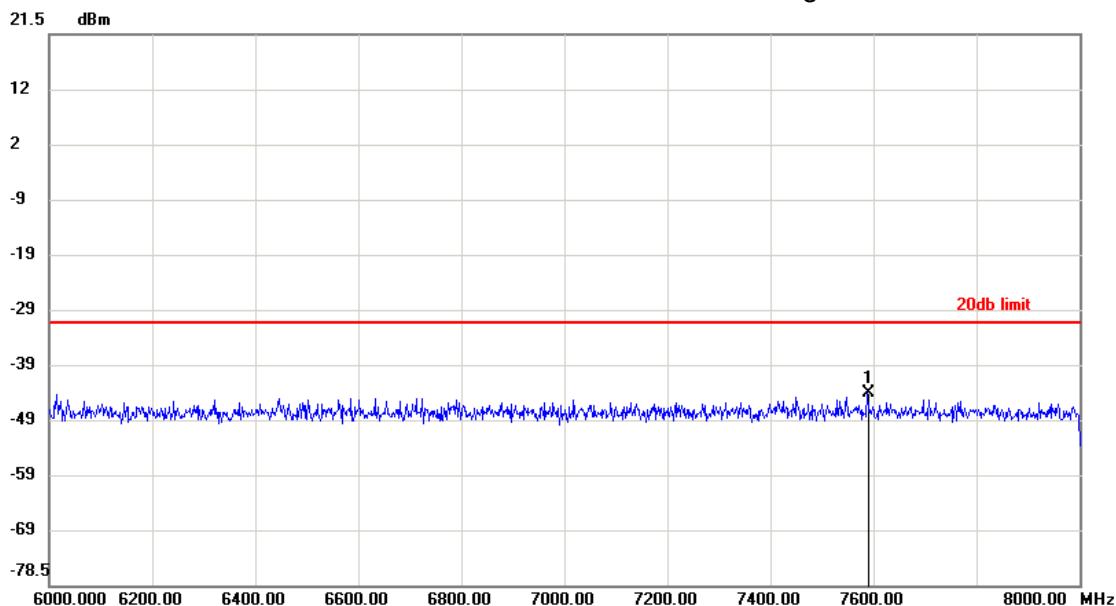
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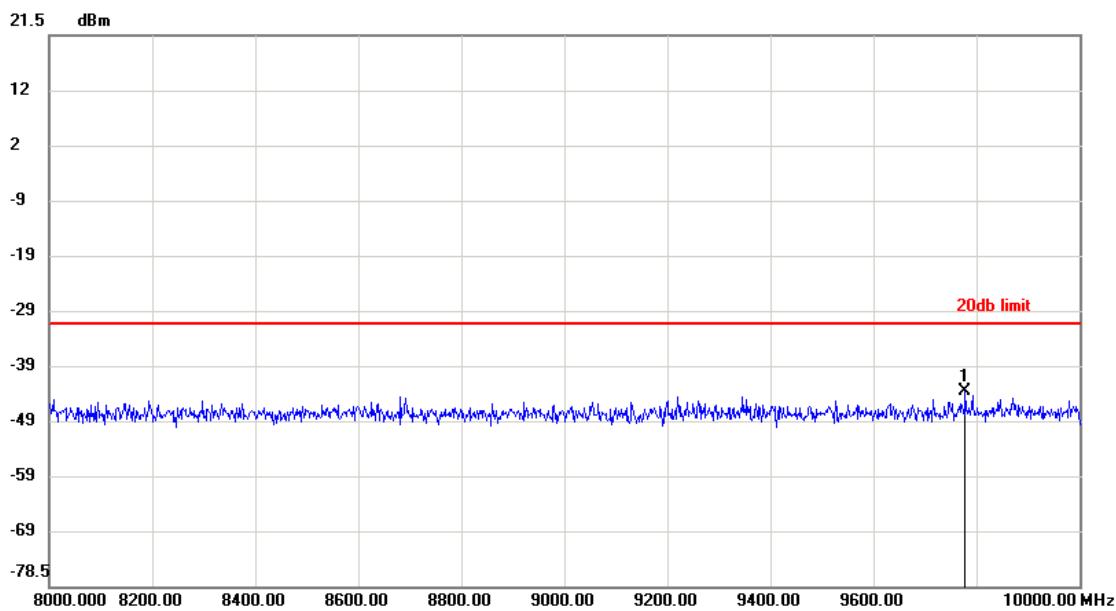
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.6000	-10.94	-30.94	20.00
2	2469.0667	-11.71	-30.94	19.23



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	4017.8000	-43.92	-30.94	-12.98



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	7588.8667	-43.70	-30.94	-12.76



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	9779.4000	-43.16	-30.94	-12.22



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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:	
Figure 1. Below 30MHz	Figure 2. 30MHz to 1GHz
	Figure 3. Above 1 GHz
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 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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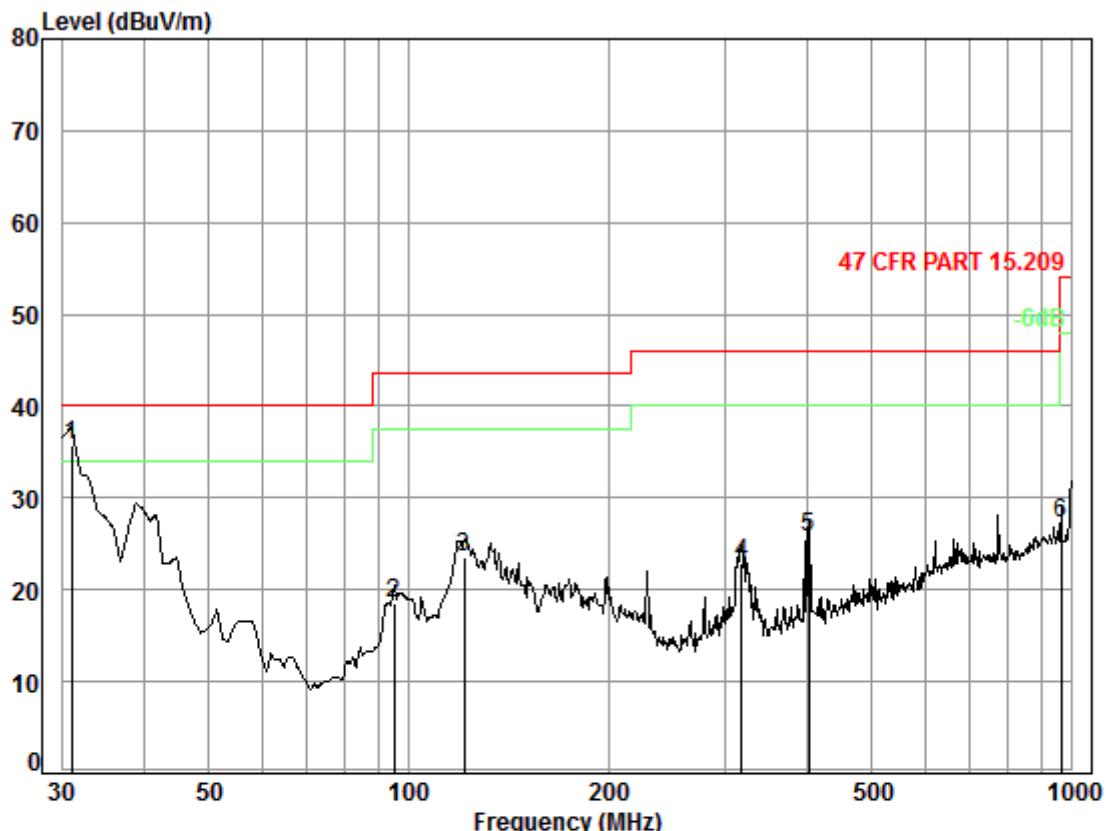
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	method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel h. Repeat above procedures until all frequencies measured was complete.
Exploratory Mode:	Test Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode , found the Transmitting mode which it is worse case 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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) For below 1GHz, through Pre-scan, find the EUT with FPC antenna in 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



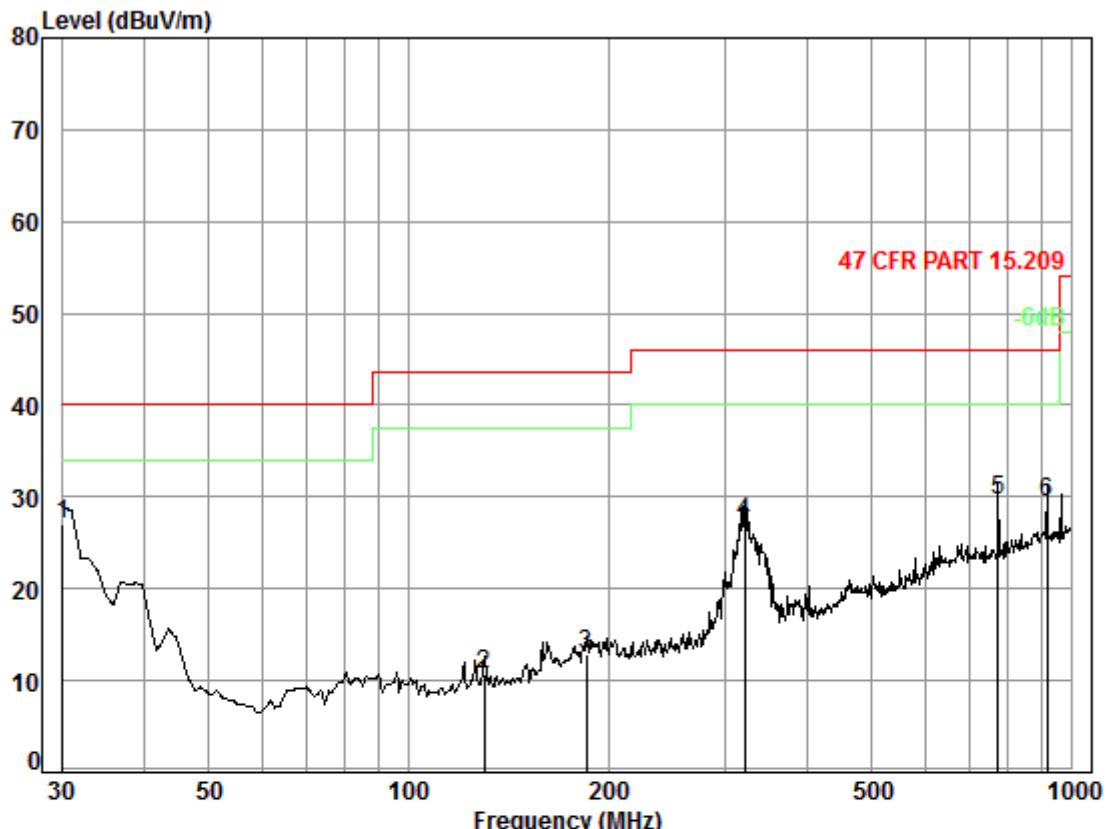
Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 4402CR

Test mode: TX Mode

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	30.96	0.60	18.16	27.35	44.38	35.79	40.00 -4.21
2	95.09	1.15	8.90	27.21	35.61	18.45	43.50 -25.05
3	121.12	1.26	7.88	27.06	41.45	23.53	43.50 -19.97
4	317.70	1.96	14.54	26.54	32.93	22.89	46.00 -23.11
5	401.84	2.21	16.31	27.15	34.26	25.63	46.00 -20.37
6	965.54	3.67	23.30	26.47	26.74	27.24	54.00 -26.76

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



Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 4402CR

Test mode: TX Mode

Freq	Cable	Ant	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 30.00	0.60	18.70	27.36	34.98	26.92	40.00	-13.08
2 129.92	1.28	7.70	27.01	28.69	10.66	43.50	-32.84
3 185.14	1.38	10.00	26.75	28.15	12.78	43.50	-30.72
4 321.06	1.97	14.66	26.56	37.25	27.32	46.00	-18.68
5 774.16	3.13	21.99	27.33	31.78	29.57	46.00	-16.43
6 919.29	3.62	23.28	26.68	29.16	29.38	46.00	-16.62



6.8.2 Transmitter emission above 1GHz

With Rod Antenna

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		
3814.467	6.79	33.18	38.88	47.43	48.52	74	-25.48	Vertical		
4824.000	6.46	34.72	39.24	48.69	50.63	74	-23.37	Vertical		
6025.661	8.07	36.27	39.18	48.07	53.23	74	-20.77	Vertical		
7236.000	8.96	35.60	39.06	43.54	49.04	74	-24.96	Vertical		
9648.000	9.97	37.45	37.91	41.09	50.60	74	-23.40	Vertical		
11258.190	10.34	38.13	38.35	41.66	51.78	74	-22.22	Vertical		
3858.877	6.77	33.25	38.89	46.96	48.09	74	-25.91	Horizontal		
4824.000	6.46	34.72	39.24	48.58	50.52	74	-23.48	Horizontal		
6034.386	8.07	36.26	39.18	47.20	52.35	74	-21.65	Horizontal		
7236.000	8.96	35.60	39.06	47.86	53.36	74	-20.64	Horizontal		
9648.000	9.97	37.45	37.91	41.23	50.74	74	-23.26	Horizontal		
11521.870	10.40	38.24	38.48	42.63	52.79	74	-21.21	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		
3657.721	6.88	33.04	38.81	47.68	48.79	74	-25.21	Vertical		
4874.000	6.57	34.77	39.26	48.92	51.00	74	-23.00	Vertical		
5982.226	8.05	36.27	39.19	47.61	52.74	74	-21.26	Vertical		
7311.000	9.06	35.52	39.06	47.11	52.63	74	-21.37	Vertical		
9748.000	9.91	37.76	37.85	41.87	51.69	74	-22.31	Vertical		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	Vertical		
3694.956	6.86	33.07	38.83	47.68	48.78	74	-25.22	Horizontal		
4874.000	6.57	34.77	39.26	48.09	50.17	74	-23.83	Horizontal		
5930.516	7.97	36.17	39.19	47.57	52.52	74	-21.48	Horizontal		
7311.000	9.06	35.52	39.06	46.50	52.02	74	-21.98	Horizontal		
9748.000	9.91	37.76	37.85	41.81	51.63	74	-22.37	Horizontal		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	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		
3497.281	6.98	32.89	38.74	47.98	49.11	74	-24.89	Vertical		
4924.000	6.68	34.82	39.28	48.50	50.72	74	-23.28	Vertical		
5913.378	7.95	36.13	39.19	47.95	52.84	74	-21.16	Vertical		
7386.000	9.16	35.44	39.05	44.19	49.74	74	-24.26	Vertical		
9848.000	9.85	38.06	37.79	41.58	51.70	74	-22.30	Vertical		
11128.630	10.31	38.11	38.29	42.61	52.74	74	-21.26	Vertical		
3803.444	6.80	33.16	38.87	47.22	48.31	74	-25.69	Horizontal		
4924.000	6.68	34.82	39.28	46.92	49.14	74	-24.86	Horizontal		
5964.939	8.03	36.23	39.19	48.02	53.09	74	-20.91	Horizontal		
7386.000	9.16	35.44	39.05	45.48	51.03	74	-22.97	Horizontal		
9848.000	9.85	38.06	37.79	41.35	51.47	74	-22.53	Horizontal		
11656.010	10.46	38.36	38.54	41.94	52.22	74	-21.78	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		
3672.110	4.10	33.06	38.82	46.13	44.47	74	-29.53	Vertical		
4824.000	4.31	34.72	39.24	45.33	45.12	74	-28.88	Vertical		
6017.064	5.35	36.28	39.18	47.24	49.69	74	-24.31	Vertical		
7236.000	5.28	35.60	39.06	44.16	45.98	74	-28.02	Vertical		
9648.000	6.51	37.45	37.91	43.37	49.42	74	-24.58	Vertical		
11283.550	7.60	38.13	38.36	44.05	51.42	74	-22.58	Vertical		
3579.815	4.13	32.98	38.78	47.11	45.44	74	-28.56	Horizontal		
4824.000	4.31	34.72	39.24	46.49	46.28	74	-27.72	Horizontal		
6001.768	5.39	36.30	39.18	46.99	49.50	74	-24.50	Horizontal		
7236.000	5.28	35.60	39.06	44.49	46.31	74	-27.69	Horizontal		
9648.000	6.51	37.45	37.91	43.48	49.53	74	-24.47	Horizontal		
11515.680	7.62	38.24	38.47	43.72	51.11	74	-22.89	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		
3561.636	4.09	32.96	38.77	46.66	44.94	74	-29.06	Vertical		
4874.000	4.36	34.77	39.26	46.71	46.58	74	-27.42	Vertical		
5940.967	5.08	36.19	39.19	47.88	49.96	74	-24.04	Vertical		
7311.000	5.22	35.52	39.06	46.14	47.82	74	-26.18	Vertical		
9748.000	6.49	37.76	37.85	42.27	48.67	74	-25.33	Vertical		
11515.680	7.62	38.24	38.47	44.74	52.13	74	-21.87	Vertical		
3598.087	4.17	33.00	38.78	46.41	44.80	74	-29.20	Horizontal		
4874.000	4.36	34.77	39.26	44.99	44.86	74	-29.14	Horizontal		
5940.967	5.08	36.19	39.19	47.88	49.96	74	-24.04	Horizontal		
7311.000	5.22	35.52	39.06	43.08	44.76	74	-29.24	Horizontal		
9748.000	6.49	37.76	37.85	42.71	49.11	74	-24.89	Horizontal		
11903.140	7.27	38.60	38.66	43.88	51.09	74	-22.91	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		
3543.550	4.05	32.94	38.76	46.43	44.66	74	-29.34	Vertical		
4924.000	4.40	34.82	39.28	52.51	52.45	74	-21.55	Vertical		
6032.401	5.31	36.26	39.18	46.44	48.83	74	-25.17	Vertical		
7386.000	5.15	35.44	39.05	45.38	46.92	74	-27.08	Vertical		
9848.000	6.62	38.06	37.79	39.91	46.80	74	-27.20	Vertical		
11633.540	7.43	38.33	38.53	43.35	50.58	74	-23.42	Vertical		
3728.625	4.05	33.10	38.84	48.05	46.36	74	-27.64	Horizontal		
4924.000	4.40	34.82	39.28	45.36	45.30	74	-28.70	Horizontal		
6017.064	5.35	36.28	39.18	47.93	50.38	74	-23.62	Horizontal		
7386.000	5.15	35.44	39.05	45.69	47.23	74	-26.77	Horizontal		
9848.000	6.62	38.06	37.79	40.63	47.52	74	-26.48	Horizontal		
11692.920	7.39	38.39	38.56	44.84	52.06	74	-21.94	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	
3367.661	3.75	32.70	38.68	46.60	44.37	74	-29.63	Vertical	
4824.000	4.31	34.72	39.24	46.82	46.61	74	-27.39	Vertical	
6078.644	5.19	36.21	39.18	44.53	46.75	74	-27.25	Vertical	
7236.000	5.28	35.60	39.06	44.18	46.00	74	-28.00	Vertical	
9648.000	6.51	37.45	37.91	40.88	46.93	74	-27.07	Vertical	
12178.980	6.92	38.93	38.85	43.69	50.69	74	-23.31	Vertical	
3634.910	4.14	33.03	38.80	44.93	43.30	74	-30.70	Horizontal	
4824.000	4.31	34.72	39.24	43.79	43.58	74	-30.42	Horizontal	
6017.064	5.35	36.28	39.18	45.73	48.18	74	-25.82	Horizontal	
7236.000	5.28	35.60	39.06	42.98	44.80	74	-29.20	Horizontal	
9648.000	6.51	37.45	37.91	41.31	47.36	74	-26.64	Horizontal	
11994.380	7.21	38.69	38.70	43.24	50.44	74	-23.56	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	
3690.853	4.08	33.07	38.82	45.53	43.86	74	-30.14	Vertical	
4874.000	4.36	34.77	39.26	46.10	45.97	74	-28.03	Vertical	
6032.401	5.31	36.26	39.18	46.06	48.45	74	-25.55	Vertical	
7311.000	5.22	35.52	39.06	44.73	46.41	74	-27.59	Vertical	
9748.000	6.49	37.76	37.85	41.73	48.13	74	-25.87	Vertical	
11457.210	7.74	38.19	38.45	43.99	51.47	74	-22.53	Vertical	
3561.636	4.09	32.96	38.77	45.16	43.44	74	-30.56	Horizontal	
4874.000	4.36	34.77	39.26	43.86	43.73	74	-30.27	Horizontal	
6032.401	5.31	36.26	39.18	45.30	47.69	74	-26.31	Horizontal	
7311.000	5.22	35.52	39.06	43.67	45.35	74	-28.65	Horizontal	
9748.000	6.49	37.76	37.85	40.79	47.19	74	-26.81	Horizontal	
11692.920	7.39	38.39	38.56	42.18	49.40	74	-24.60	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	
3672.110	4.10	33.06	38.82	45.88	44.22	74	-29.78		Vertical	
4924.000	4.40	34.82	39.28	44.72	44.66	74	-29.34		Vertical	
6001.768	5.39	36.30	39.18	46.18	48.69	74	-25.31		Vertical	
7386.000	5.15	35.44	39.05	45.14	46.68	74	-27.32		Vertical	
9848.000	6.62	38.06	37.79	41.38	48.27	74	-25.73		Vertical	
11428.080	7.80	38.17	38.43	43.01	50.55	74	-23.45		Vertical	
3672.110	4.10	33.06	38.82	45.88	44.22	74	-29.78		Horizontal	
4924.000	4.40	34.82	39.28	46.03	45.97	74	-28.03		Horizontal	
6063.190	5.23	36.23	39.18	46.65	48.93	74	-25.07		Horizontal	
7386.000	5.15	35.44	39.05	45.14	46.68	74	-27.32		Horizontal	
9848.000	6.62	38.06	37.79	41.21	48.10	74	-25.90		Horizontal	
11283.550	7.60	38.13	38.36	42.84	50.21	74	-23.79		Horizontal	

Test mode:		802.11n(HT40)		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	
3599.965	6.91	33.00	38.79	47.30	48.42	74	-25.58		Vertical	
4844.000	6.51	34.74	39.25	48.46	50.46	74	-23.54		Vertical	
5964.939	8.03	36.23	39.19	48.87	53.94	74	-20.06		Vertical	
7266.000	9.00	35.57	39.06	43.21	48.72	74	-25.28		Vertical	
9688.000	9.94	37.57	37.88	43.96	53.59	74	-20.41		Vertical	
11521.870	10.40	38.24	38.48	42.55	52.71	74	-21.29		Vertical	
3892.524	6.75	33.31	38.91	47.46	48.61	74	-25.39		Horizontal	
4844.000	6.51	34.74	39.25	48.63	50.63	74	-23.37		Horizontal	
5896.291	7.92	36.10	39.19	48.83	53.66	74	-20.34		Horizontal	
7266.000	9.00	35.57	39.06	46.39	51.90	74	-22.10		Horizontal	
9688.000	9.94	37.57	37.88	42.01	51.64	74	-22.36		Horizontal	
11706.720	10.48	38.41	38.56	43.55	53.88	74	-20.12		Horizontal	



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Test mode:		802.11n(HT40)		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		
3716.403	6.84	33.09	38.84	48.68	49.77	74	-24.23	Vertical		
4874.000	6.57	34.77	39.26	47.48	49.56	74	-24.44	Vertical		
6122.333	8.05	36.16	39.17	48.12	53.16	74	-20.84	Vertical		
7311.000	9.06	35.52	39.06	43.83	49.35	74	-24.65	Vertical		
9748.000	9.91	37.76	37.85	44.13	53.95	74	-20.05	Vertical		
11656.010	10.46	38.36	38.54	42.89	53.17	74	-20.83	Vertical		
3492.224	6.98	32.88	38.74	47.24	48.36	74	-25.64	Horizontal		
4874.000	6.57	34.77	39.26	48.30	50.38	74	-23.62	Horizontal		
6166.787	8.04	36.12	39.17	48.41	53.40	74	-20.60	Horizontal		
7311.000	9.06	35.52	39.06	43.63	49.15	74	-24.85	Horizontal		
9748.000	9.91	37.76	37.85	41.74	51.56	74	-22.44	Horizontal		
11422.280	10.37	38.17	38.43	43.08	53.19	74	-20.81	Horizontal		

Test mode:		802.11n(HT40)		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		
3748.808	6.83	33.11	38.85	47.17	48.26	74	-25.74	Vertical		
4904.000	6.64	34.81	39.27	48.24	50.42	74	-23.58	Vertical		
5921.940	7.96	36.15	39.19	47.60	52.52	74	-21.48	Vertical		
7356.000	9.12	35.47	39.05	47.13	52.67	74	-21.33	Vertical		
9808.000	9.88	37.94	37.81	42.87	52.88	74	-21.12	Vertical		
11521.870	10.40	38.24	38.48	42.61	52.77	74	-21.23	Vertical		
3673.633	6.87	33.06	38.82	47.76	48.87	74	-25.13	Horizontal		
4904.000	6.64	34.81	39.27	48.38	50.56	74	-23.44	Horizontal		
5728.107	7.65	35.74	39.21	49.02	53.20	74	-20.80	Horizontal		
7356.000	9.12	35.47	39.05	47.16	52.70	74	-21.30	Horizontal		
9808.000	9.88	37.94	37.81	42.16	52.17	74	-21.83	Horizontal		
11290.820	10.34	38.13	38.37	42.41	52.51	74	-21.49	Horizontal		



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With FPC Antenna

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		
3387.708	7.18	32.75	38.69	48.48	49.72	74	-24.28	Vertical		
4824.000	6.46	34.72	39.24	49.88	51.82	74	-22.18	Vertical		
5947.702	8.00	36.20	39.19	47.71	52.72	74	-21.28	Vertical		
7236.000	8.96	35.60	39.06	47.50	53.00	74	-21.00	Vertical		
9648.000	9.97	37.45	37.91	43.37	52.88	74	-21.12	Vertical		
11622.330	10.44	38.32	38.52	43.20	53.44	74	-20.56	Vertical		
3225.082	7.51	32.32	38.61	49.77	50.99	74	-23.01	Horizontal		
4824.000	6.46	34.72	39.24	49.05	50.99	74	-23.01	Horizontal		
5828.433	7.81	35.97	39.20	47.99	52.57	74	-21.43	Horizontal		
7236.000	8.96	35.60	39.06	48.28	53.78	74	-20.22	Horizontal		
9648.000	9.97	37.45	37.91	42.66	52.17	74	-21.83	Horizontal		
11757.650	10.50	38.46	38.59	42.65	53.02	74	-20.98	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		
3716.403	6.84	33.09	38.84	48.68	49.77	74	-24.23	Vertical		
4874.000	6.57	34.77	39.26	47.92	50.00	74	-24.00	Vertical		
5964.939	8.03	36.23	39.19	47.14	52.21	74	-21.79	Vertical		
7311.000	9.06	35.52	39.06	47.98	53.50	74	-20.50	Vertical		
9648.000	9.97	37.45	37.91	41.61	51.12	74	-22.88	Vertical		
11723.670	10.49	38.43	38.57	42.04	52.39	74	-21.61	Vertical		
3568.847	6.93	32.97	38.77	47.62	48.75	74	-25.25	Horizontal		
4874.000	6.57	34.77	39.26	48.30	50.38	74	-23.62	Horizontal		
6034.386	8.07	36.26	39.18	47.45	52.60	74	-21.40	Horizontal		
7311.000	9.06	35.52	39.06	47.85	53.37	74	-20.63	Horizontal		
9748.000	9.91	37.76	37.85	42.72	52.54	74	-21.46	Horizontal		
11422.280	10.37	38.17	38.43	43.08	53.19	74	-20.81	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		
3291.078	7.37	32.50	38.65	48.32	49.54	74	-24.46	Vertical		
4924.000	6.68	34.82	39.28	47.81	50.03	74	-23.97	Vertical		
6104.642	8.06	36.18	39.17	47.44	52.51	74	-21.49	Vertical		
7386.000	9.16	35.44	39.05	46.87	52.42	74	-21.58	Vertical		
9848.000	9.85	38.06	37.79	42.52	52.64	74	-21.36	Vertical		
11860.170	10.55	38.56	38.64	43.26	53.73	74	-20.27	Vertical		
3397.525	7.16	32.77	38.69	48.25	49.49	74	-24.51	Horizontal		
4924.000	6.68	34.82	39.28	48.41	50.63	74	-23.37	Horizontal		
6034.386	8.07	36.26	39.18	48.30	53.45	74	-20.55	Horizontal		
7386.000	9.16	35.44	39.05	43.45	49.00	74	-25.00	Horizontal		
9848.000	9.85	38.06	37.79	41.88	52.00	74	-22.00	Horizontal		
11757.650	10.50	38.46	38.59	42.48	52.85	74	-21.15	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		
3641.878	6.89	33.03	38.80	47.90	49.02	74	-24.98	Vertical		
4824.000	6.46	34.72	39.24	49.06	51.00	74	-23.00	Vertical		
5921.940	7.96	36.15	39.19	47.71	52.63	74	-21.37	Vertical		
7236.000	8.96	35.60	39.06	47.98	53.48	74	-20.52	Vertical		
9648.000	9.97	37.45	37.91	42.23	51.74	74	-22.26	Vertical		
11128.630	10.31	38.11	38.29	42.83	52.96	74	-21.04	Vertical		
3368.157	7.22	32.70	38.68	47.13	48.37	74	-25.63	Horizontal		
4824.000	6.46	34.72	39.24	48.46	50.40	74	-23.60	Horizontal		
6034.386	8.07	36.26	39.18	47.20	52.35	74	-21.65	Horizontal		
7236.000	8.96	35.60	39.06	47.86	53.36	74	-20.64	Horizontal		
9648.000	9.97	37.45	37.91	41.92	51.43	74	-22.57	Horizontal		
11128.630	10.31	38.11	38.29	42.49	52.62	74	-21.38	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		
3631.354	6.89	33.02	38.80	48.44	49.55	74	-24.45	Vertical		
4874.000	6.57	34.77	39.26	48.92	51.00	74	-23.00	Vertical		
6211.563	8.03	36.07	39.16	48.05	52.99	74	-21.01	Vertical		
7311.000	9.06	35.52	39.06	48.31	53.83	74	-20.17	Vertical		
9748.000	9.91	37.76	37.85	41.92	51.74	74	-22.26	Vertical		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	Vertical		
3457.032	7.05	32.84	38.72	48.37	49.54	74	-24.46	Horizontal		
4874.000	6.57	34.77	39.26	49.20	51.28	74	-22.72	Horizontal		
6193.614	8.04	36.09	39.16	48.68	53.65	74	-20.35	Horizontal		
7311.000	9.06	35.52	39.06	44.25	49.77	74	-24.23	Horizontal		
9748.000	9.91	37.76	37.85	41.92	51.74	74	-22.26	Horizontal		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	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		
3243.802	7.47	32.37	38.62	48.02	49.24	74	-24.76	Vertical		
4824.000	6.46	34.72	39.24	48.97	50.91	74	-23.09	Vertical		
5913.378	7.95	36.13	39.19	47.95	52.84	74	-21.16	Vertical		
7386.000	9.16	35.44	39.05	48.19	53.74	74	-20.26	Vertical		
9848.000	9.85	38.06	37.79	42.01	52.13	74	-21.87	Vertical		
11757.650	10.50	38.46	38.59	43.24	53.61	74	-20.39	Vertical		
3407.371	7.15	32.79	38.70	48.35	49.59	74	-24.41	Horizontal		
4924.000	6.68	34.82	39.28	51.14	53.36	74	-20.64	Horizontal		
5964.939	8.03	36.23	39.19	48.02	53.09	74	-20.91	Horizontal		
7386.000	9.16	35.44	39.05	47.40	52.95	74	-21.05	Horizontal		
9848.000	9.85	38.06	37.79	41.35	51.47	74	-22.53	Horizontal		
11740.650	10.50	38.44	38.58	43.00	53.36	74	-20.64	Horizontal		

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		
3748.808	6.83	33.11	38.85	47.95	49.04	74	-24.96	Vertical		
4824.000	6.46	34.72	39.24	49.37	51.31	74	-22.69	Vertical		
5947.702	8.00	36.20	39.19	48.44	53.45	74	-20.55	Vertical		
7236.000	8.96	35.60	39.06	45.36	50.86	74	-23.14	Vertical		
9648.000	9.97	37.45	37.91	42.21	51.72	74	-22.28	Vertical		
11258.190	10.34	38.13	38.35	41.46	51.58	74	-22.42	Vertical		
3657.721	6.88	33.04	38.81	46.98	48.09	74	-25.91	Horizontal		
4824.000	6.46	34.72	39.24	47.75	49.69	74	-24.31	Horizontal		
6016.949	8.08	36.28	39.18	48.26	53.44	74	-20.56	Horizontal		
7236.000	8.96	35.60	39.06	47.36	52.86	74	-21.14	Horizontal		
9648.000	9.97	37.45	37.91	41.80	51.31	74	-22.69	Horizontal		
11488.580	10.39	38.22	38.46	42.22	52.37	74	-21.63	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		
3689.614	6.86	33.07	38.82	46.80	47.91	74	-26.09	Vertical		
4874.000	6.57	34.77	39.26	47.54	49.62	74	-24.38	Vertical		
6095.816	8.06	36.19	39.17	47.41	52.49	74	-21.51	Vertical		
7311.000	9.06	35.52	39.06	46.64	52.16	74	-21.84	Vertical		
9748.000	9.91	37.76	37.85	41.77	51.59	74	-22.41	Vertical		
11588.750	10.43	38.29	38.51	42.06	52.27	74	-21.73	Vertical		
3700.306	6.85	33.08	38.83	47.12	48.22	74	-25.78	Horizontal		
4874.000	6.57	34.77	39.26	48.34	50.42	74	-23.58	Horizontal		
6095.816	8.06	36.19	39.17	47.41	52.49	74	-21.51	Horizontal		
7311.000	9.06	35.52	39.06	43.39	48.91	74	-25.09	Horizontal		
9748.000	9.91	37.76	37.85	41.90	51.72	74	-22.28	Horizontal		
11274.500	10.34	38.13	38.36	41.79	51.90	74	-22.10	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	
3858.877	6.77	33.25	38.89	46.93	48.06	74	-25.94		Vertical	
4924.000	6.68	34.82	39.28	48.71	50.93	74	-23.07		Vertical	
6122.333	8.05	36.16	39.17	48.12	53.16	74	-20.84		Vertical	
7386.000	9.16	35.44	39.05	43.98	49.53	74	-24.47		Vertical	
9848.000	9.85	38.06	37.79	42.96	53.08	74	-20.92		Vertical	
11356.360	10.36	38.14	38.40	42.33	52.43	74	-21.57		Vertical	
3689.614	6.86	33.07	38.82	46.80	47.91	74	-26.09		Horizontal	
4924.000	6.68	34.82	39.28	48.01	50.23	74	-23.77		Horizontal	
5999.562	8.08	36.30	39.18	47.81	53.01	74	-20.99		Horizontal	
7386.000	9.16	35.44	39.05	43.33	48.88	74	-25.12		Horizontal	
9848.000	9.85	38.06	37.79	41.58	51.70	74	-22.30		Horizontal	
11538.550	10.41	38.25	38.48	42.07	52.25	74	-21.75		Horizontal	

Test mode:		802.11n(HT40)		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	
3770.567	6.81	33.13	38.86	46.65	47.73	74	-26.27		Vertical	
4844.000	6.51	34.74	39.25	47.57	49.57	74	-24.43		Vertical	
6060.637	8.07	36.23	39.18	48.78	53.90	74	-20.10		Vertical	
7266.000	9.00	35.57	39.06	47.40	52.91	74	-21.09		Vertical	
9688.000	9.94	37.57	37.88	41.03	50.66	74	-23.34		Vertical	
11160.880	10.32	38.12	38.30	39.96	50.10	74	-23.90		Vertical	
3467.050	7.03	32.86	38.73	47.10	48.26	74	-25.74		Horizontal	
4844.000	6.51	34.74	39.25	48.08	50.08	74	-23.92		Horizontal	
5999.562	8.08	36.30	39.18	47.38	52.58	74	-21.42		Horizontal	
7266.000	9.00	35.57	39.06	44.37	49.88	74	-24.12		Horizontal	
9688.000	9.94	37.57	37.88	41.89	51.52	74	-22.48		Horizontal	
11389.270	10.37	38.15	38.41	42.69	52.80	74	-21.20		Horizontal	

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Shenzhen Branch

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Test mode:		802.11n(HT40)		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	
3522.674	6.96	32.92	38.75	46.73	47.86	74	-26.14		Vertical	
4874.000	6.57	34.77	39.26	48.13	50.21	74	-23.79		Vertical	
6095.816	8.06	36.19	39.17	48.45	53.53	74	-20.47		Vertical	
7311.000	9.06	35.52	39.06	43.06	48.58	74	-25.42		Vertical	
9748.000	9.91	37.76	37.85	39.66	49.48	74	-24.52		Vertical	
11656.010	10.46	38.36	38.54	42.89	53.17	74	-20.83		Vertical	
3870.060	6.76	33.27	38.90	46.15	47.28	74	-26.72		Horizontal	
4874.000	6.57	34.77	39.26	48.17	50.25	74	-23.75		Horizontal	
6069.413	8.06	36.22	39.18	47.77	52.87	74	-21.13		Horizontal	
7311.000	9.06	35.52	39.06	46.99	52.51	74	-21.49		Horizontal	
9748.000	9.91	37.76	37.85	40.17	49.99	74	-24.01		Horizontal	
11389.270	10.37	38.15	38.41	42.36	52.47	74	-21.53		Horizontal	

Test mode:		802.11n(HT40)		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	
3432.112	7.10	32.82	38.71	45.98	47.19	74	-26.81		Vertical	
4904.000	6.64	34.81	39.27	47.38	49.56	74	-24.44		Vertical	
6034.386	8.07	36.26	39.18	48.70	53.85	74	-20.15		Vertical	
7356.000	9.12	35.47	39.05	45.89	51.43	74	-22.57		Vertical	
9808.000	9.88	37.94	37.81	41.40	51.41	74	-22.59		Vertical	
11723.670	10.49	38.43	38.57	43.55	53.90	74	-20.10		Vertical	
3636.612	6.89	33.03	38.80	47.03	48.15	74	-25.85		Horizontal	
4904.000	6.64	34.81	39.27	48.10	50.28	74	-23.72		Horizontal	
6113.481	8.05	36.17	39.17	48.71	53.76	74	-20.24		Horizontal	
7356.000	9.12	35.47	39.05	41.98	47.52	74	-26.48		Horizontal	
9808.000	9.88	37.94	37.81	40.59	50.60	74	-23.40		Horizontal	
11555.260	10.41	38.27	38.49	41.33	51.52	74	-22.48		Horizontal	

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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.

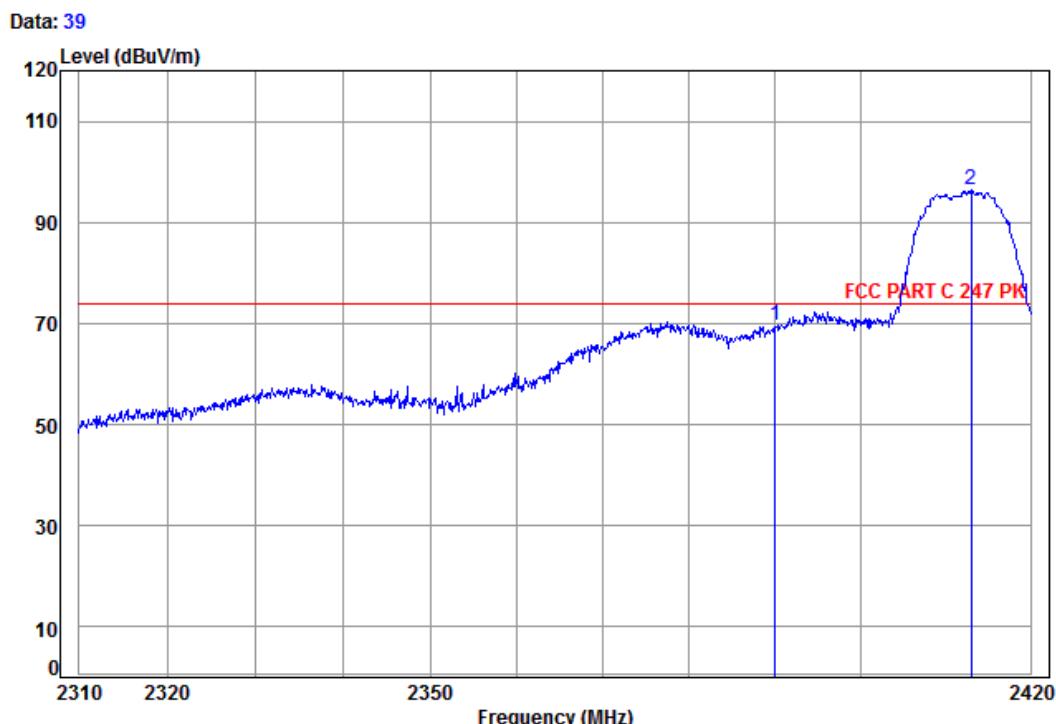
6.9 Restricted bands around fundamental frequency

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		

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) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

Test plot as follows:
With Rod Antenna:

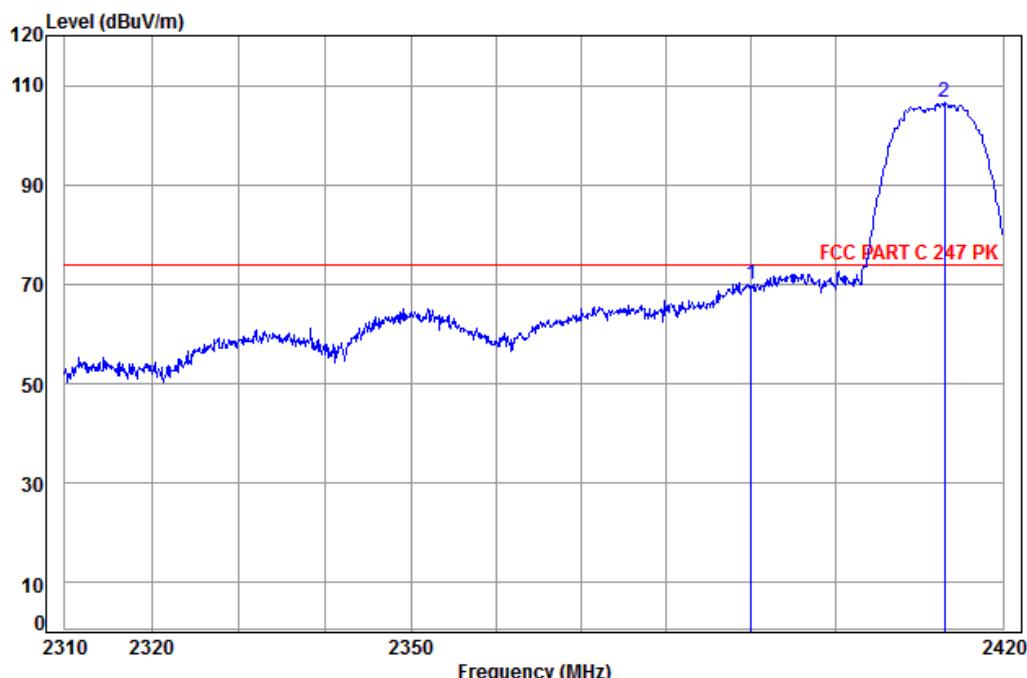
Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 4402CR
 Mode: : 2412 B Band edge

	Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit
1	2390.00	4.90	32.35	38.46	70.88	69.67	74.00
2 pp	2413.03	4.93	32.41	38.46	97.60	96.48	74.00

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 37


Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

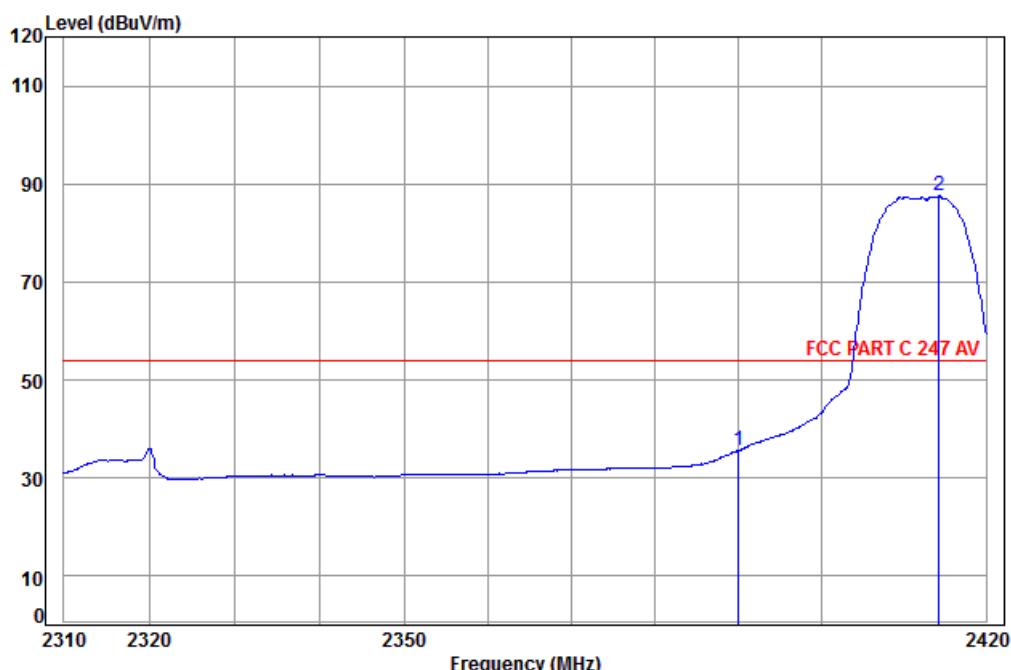
Job No: : 4402CR

Mode: : 2412 B Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	71.31	70.10	74.00	-3.90
2 pp	2413.03	4.93	32.41	38.46	107.71	106.59	74.00	32.59

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 40



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

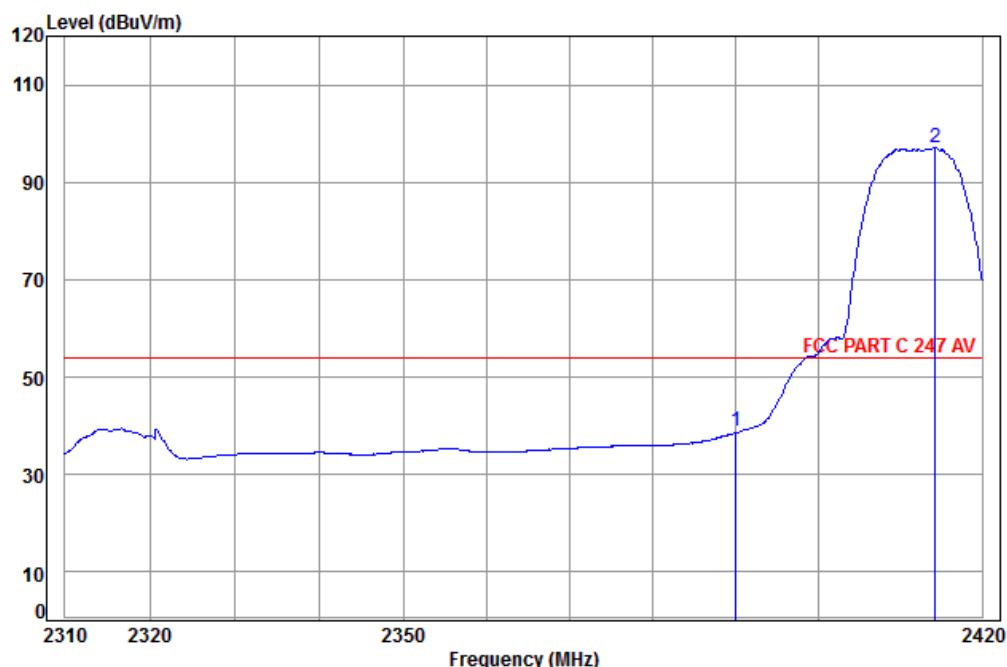
Job No: : 4402CR

Mode: : 2412 B Band edge

	Cable	Ant	Preamplifier	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
1	2390.00	4.90	32.35	38.46	36.75	35.54	54.00 -18.46
2 pp	2414.27	4.93	32.42	38.46	88.68	87.57	54.00 33.57

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 38



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

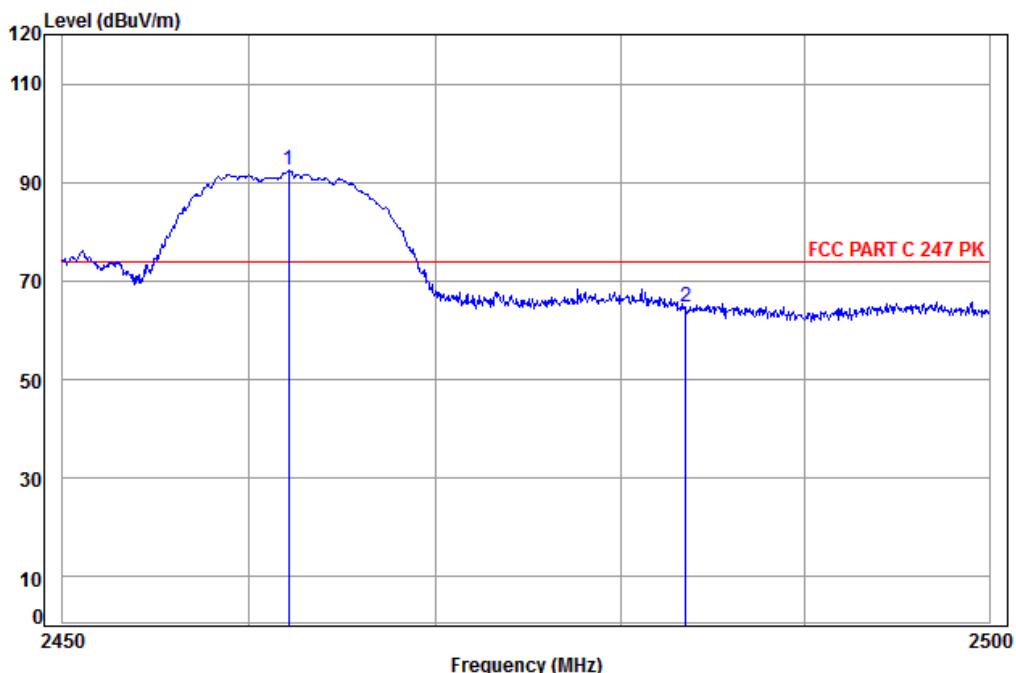
Job No: : 4402CR

Mode: : 2412 B Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	40.00	38.79	54.00	-15.21
2 pp	2414.27	4.93	32.42	38.46	98.30	97.19	54.00	43.19

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 41



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

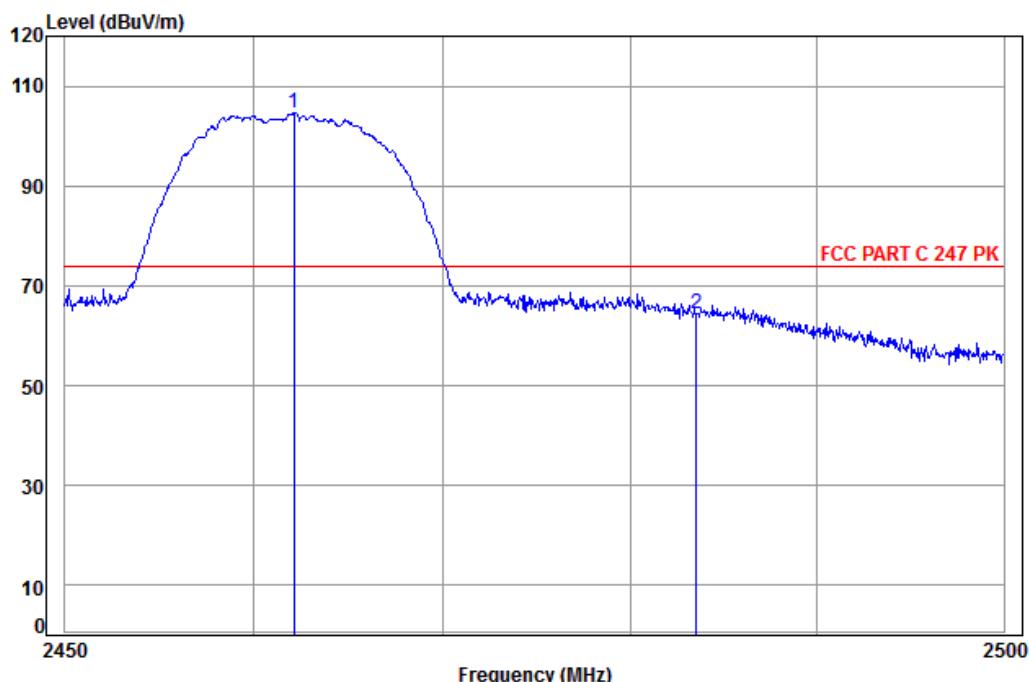
Mode: : 2462 B Band edge

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level	Level	Line	Limit
1 pp	2462.11	5.00	32.43	38.46	93.45	92.42	74.00	18.42
2	2483.50	5.03	32.44	38.47	65.86	64.86	74.00	-9.14



Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 43



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

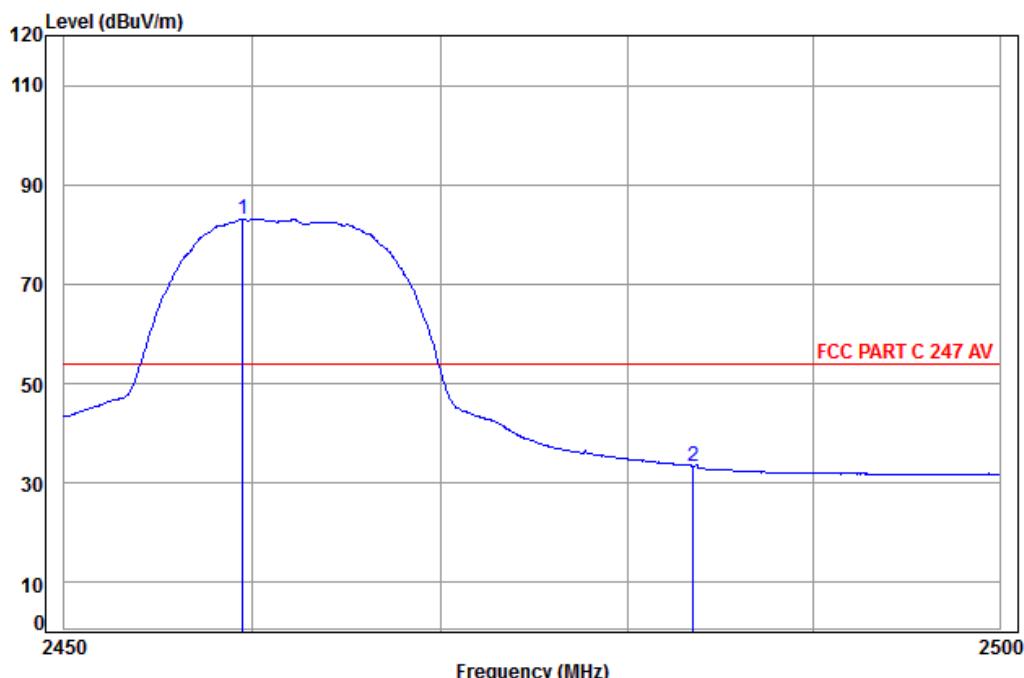
Job No: : 4402CR

Mode: : 2462 B Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
1 pp	2462.11	5.00	32.43	38.46	105.78	104.75	74.00	30.75
2	2483.50	5.03	32.44	38.47	65.57	64.57	74.00	-9.43

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Data: 42

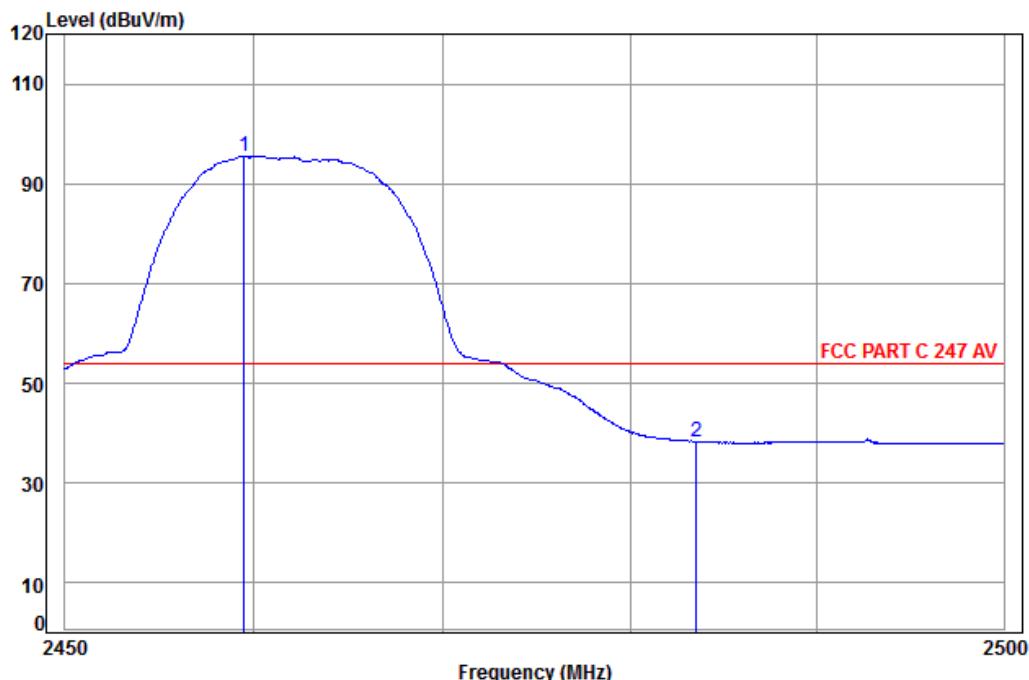


Site : chamber
Condition: FCC PART C 247 AV 3m Vertical
Job No: : 4402CR
Mode: : 2462 B Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2459.47	5.00	32.43	38.46	84.10	83.07	54.00	29.07
2		2483.50	5.03	32.44	38.47	34.42	33.42	54.00	-20.58

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 44



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

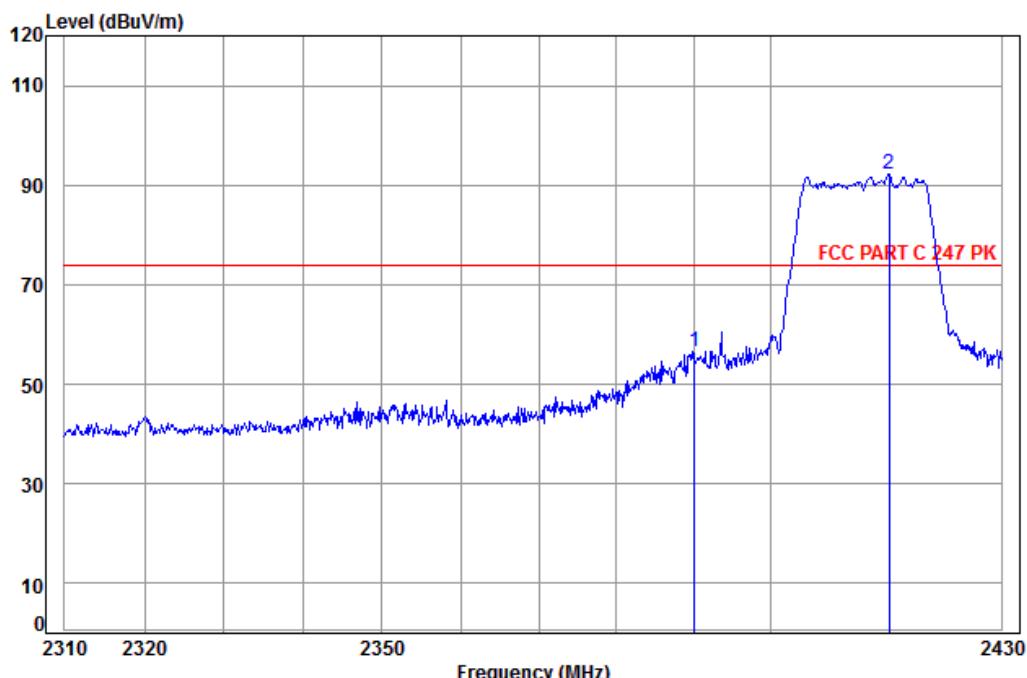
Job No: : 4402CR

Mode: : 2462 B Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2459.47	5.00	32.43	38.46	96.62	95.59	54.00	41.59
2		2483.50	5.03	32.44	38.47	39.24	38.24	54.00	-15.76

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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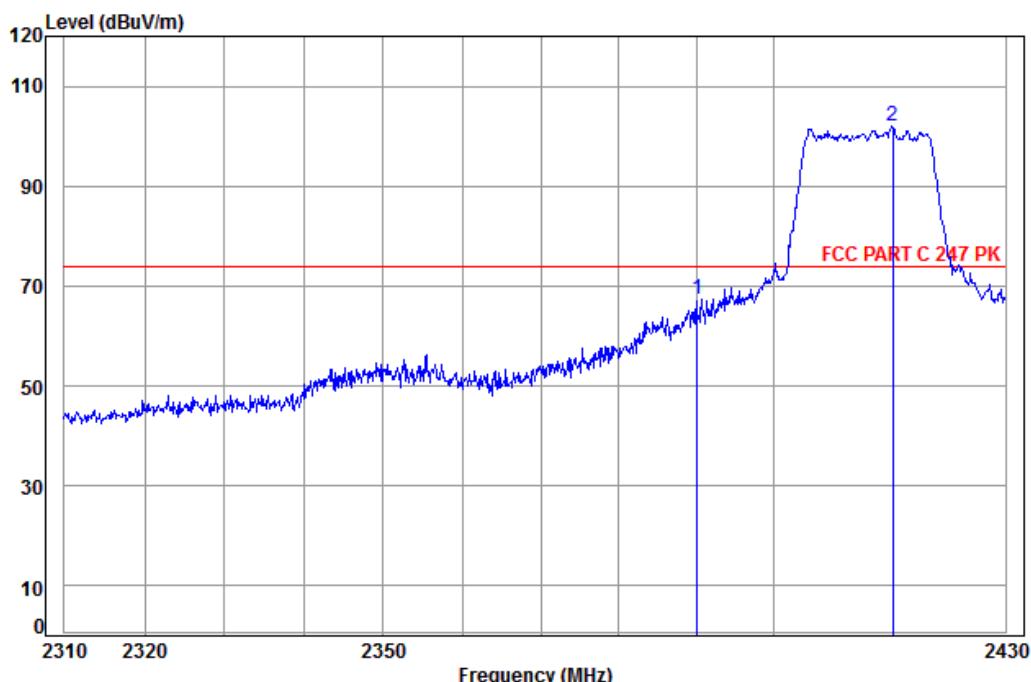
Data: 49



Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 4402CR
Mode: : 2412 G Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	57.82	56.61	74.00	-17.39
2 pp	2415.28	4.94	32.42	38.46	93.21	92.11	74.00	18.11

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 51


Site : chamber

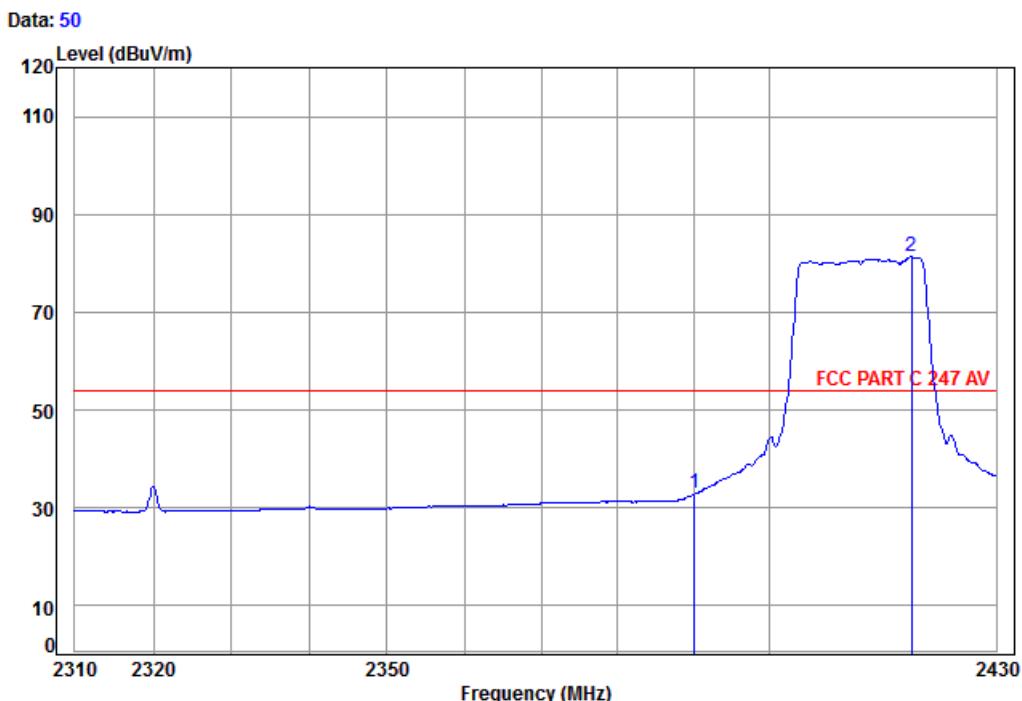
Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2412 G Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	68.45	67.24	74.00	-6.76
2 pp	2415.28	4.94	32.42	38.46	102.96	101.86	74.00	27.86

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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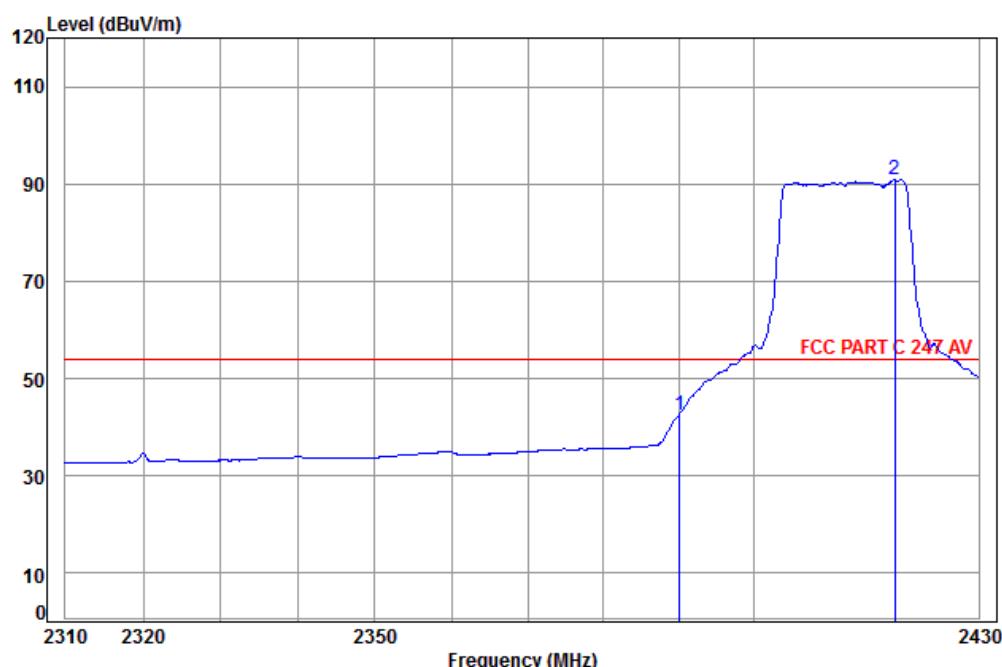
Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2412 G Band edge

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	34.15	32.94	54.00	-21.06
2 pp	2418.70	4.94	32.42	38.46	82.38	81.28	54.00	27.28

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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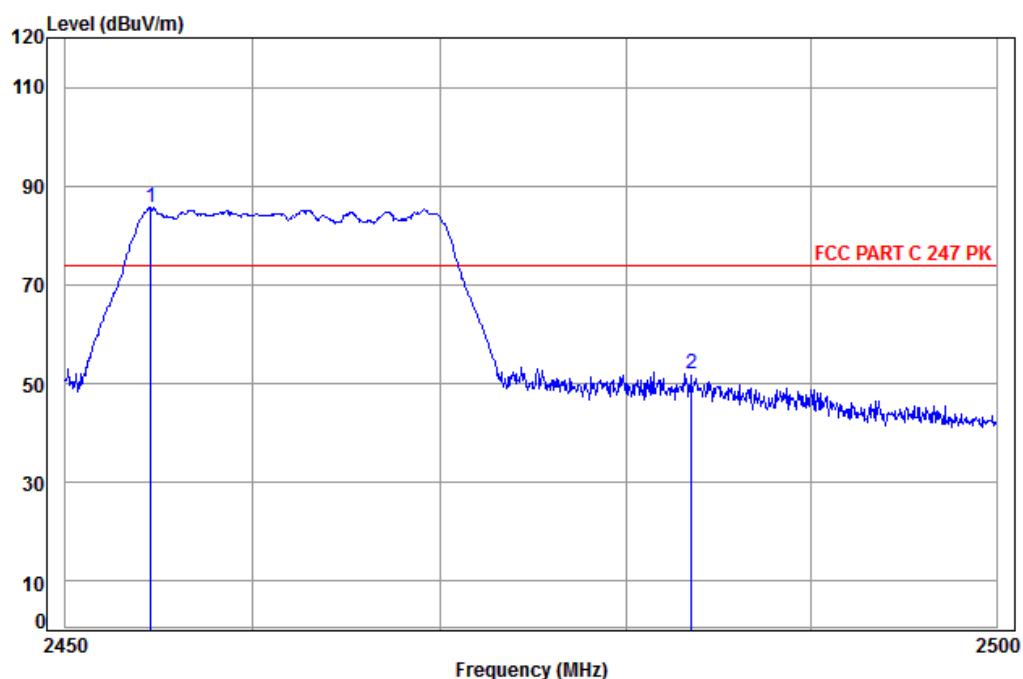
Data: 52

 Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 4402CR

Mode: : 2412 G Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	43.85	42.64	54.00	-11.36
2 pp	2418.70	4.94	32.42	38.46	91.93	90.83	54.00	36.83

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 47


Site : chamber

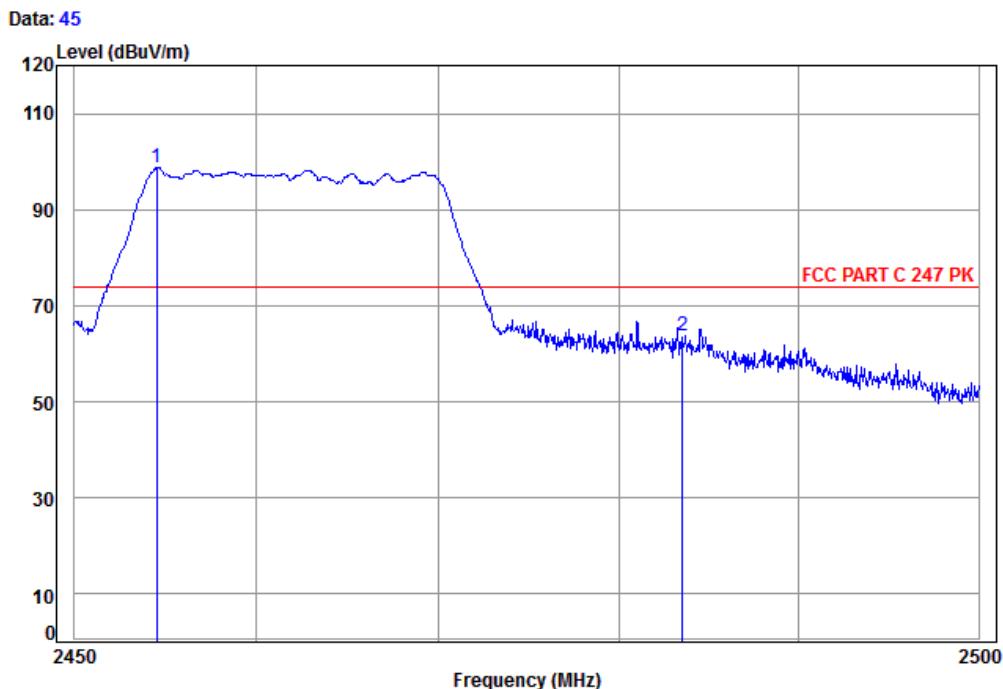
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2462 G Band edge

		Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.56	4.99	32.43	38.46	86.70	85.66	74.00	11.66	
2	2483.50	5.03	32.44	38.47	53.04	52.04	74.00	-21.96	

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

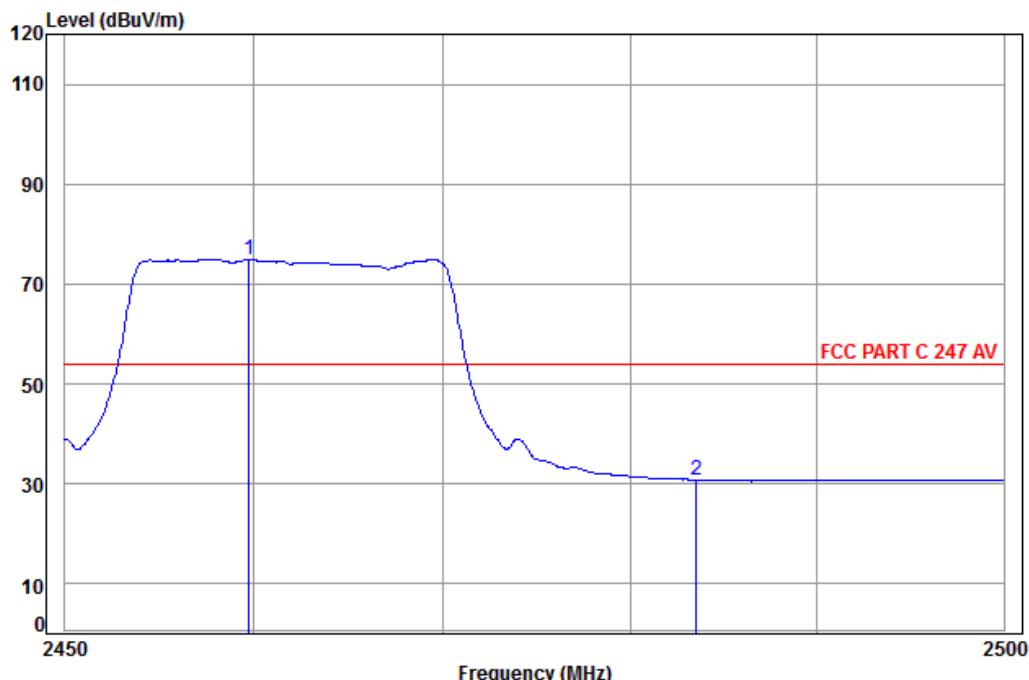
Job No: : 4402CR

Mode: : 2462 G Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.51	4.99	32.43	38.46	99.71	98.67	74.00	24.67
2 pk	2483.50	5.03	32.44	38.47	64.69	63.69	74.00	-10.31

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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Data: 48



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

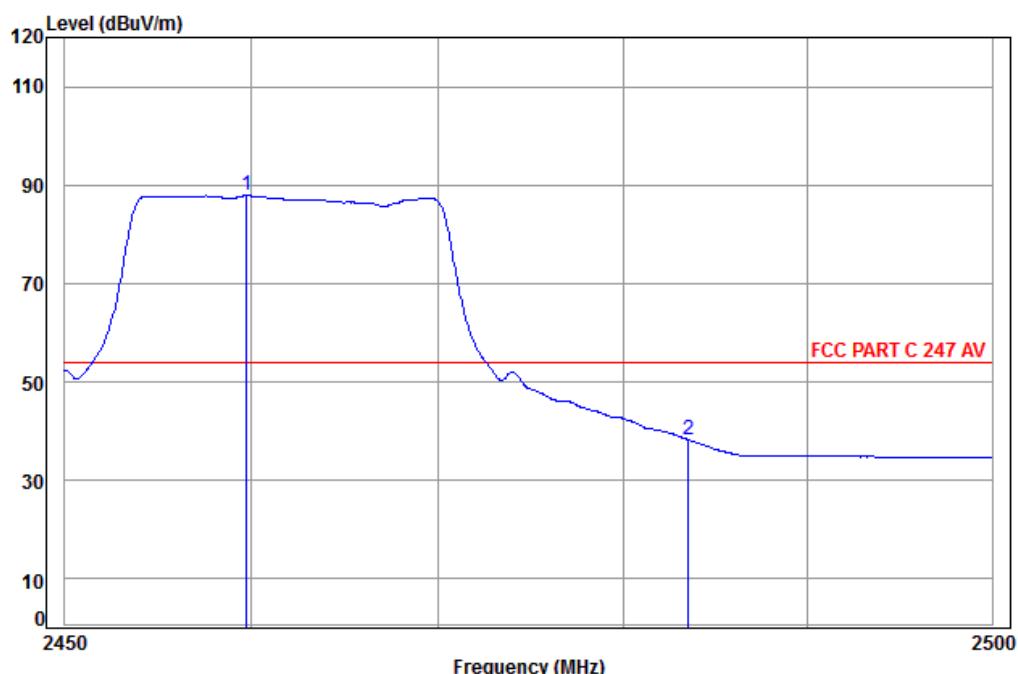
Mode: : 2462 G Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2459.72	5.00	32.43	38.46	76.02	74.99	54.00	20.99
2	2483.50	5.03	32.44	38.47	31.81	30.81	54.00	-23.19



Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 46



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

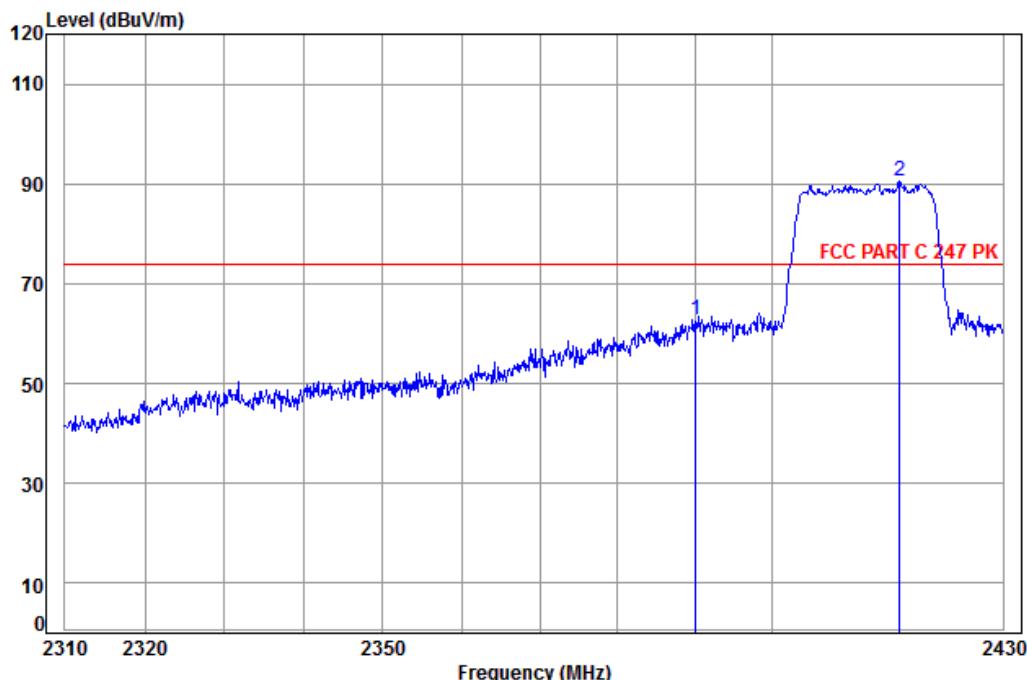
Job No: : 4402CR

Mode: : 2462 G Band edge

Freq	Cable Loss		Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2459.72	5.00	32.43	38.46	88.93	87.90	54.00	33.90
2	2483.50	5.03	32.44	38.47	39.38	38.38	54.00	-15.62

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 59



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

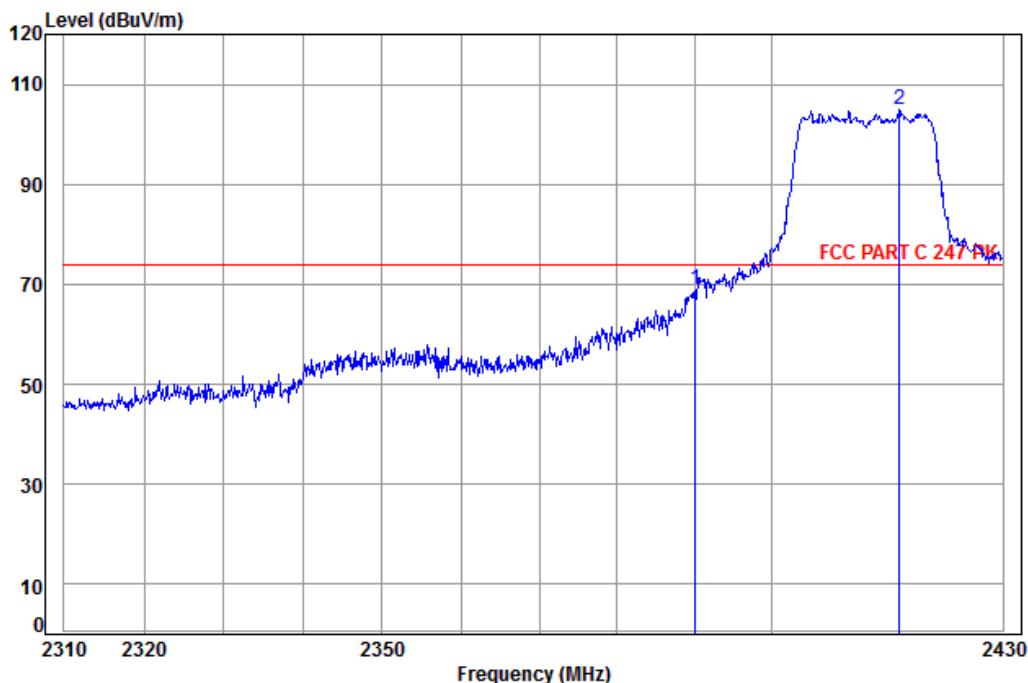
Job No: : 4402CR

Mode: : 2412 N20 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	63.93	62.72	74.00	-11.28
2 pp	2416.50	4.94	32.42	38.46	91.69	90.59	74.00	16.59

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 53



Site : chamber

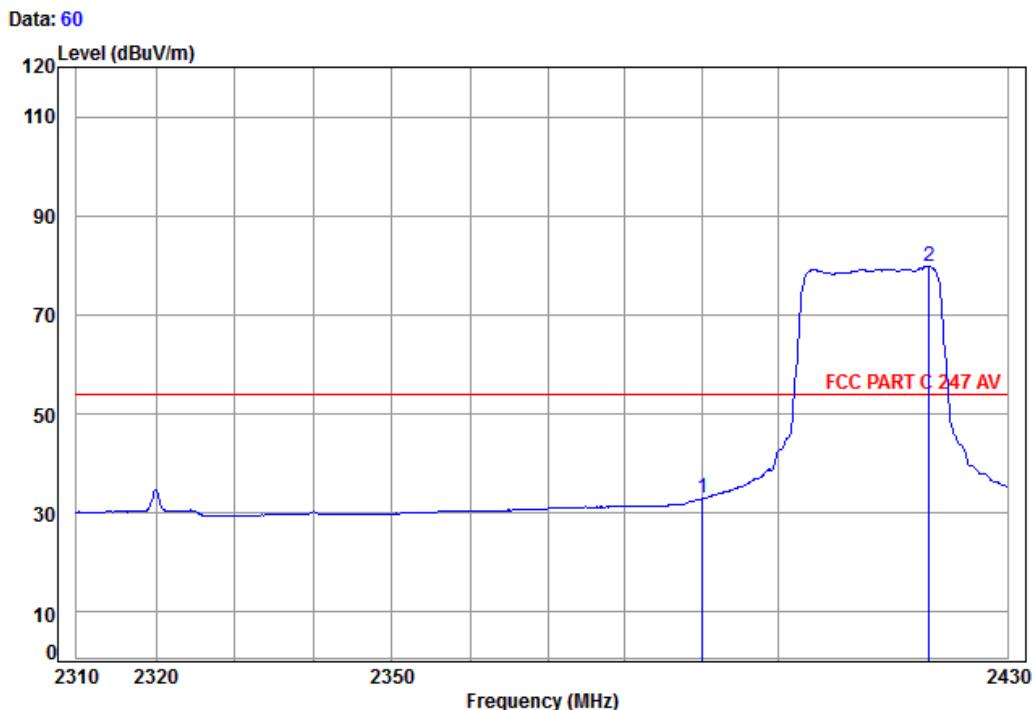
Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2412 N20 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	70.27	69.06	74.00	-4.94
2 pp	2416.50	4.94	32.42	38.46	106.09	104.99	74.00	30.99

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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Site : chamber
Condition: FCC PART C 247 AV 3m Vertical

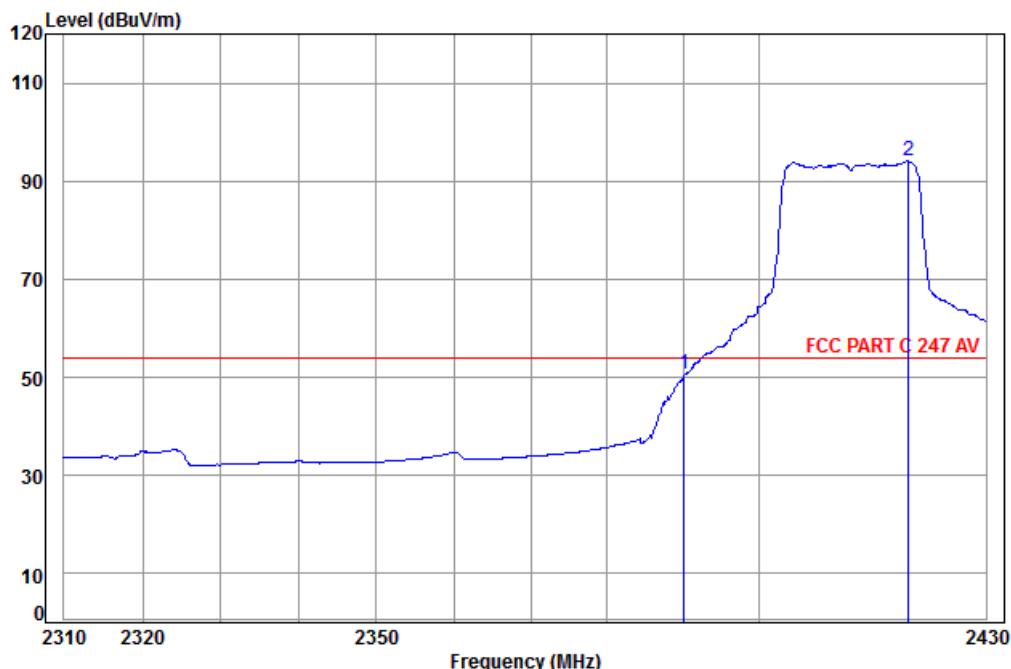
Job No: : 4402CR

Mode: : 2412 N20 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.00	4.90	32.35	38.46	34.27	33.06	54.00	-20.94
2 pp		2419.69	4.94	32.42	38.46	80.90	79.80	54.00	25.80

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 54



Site : chamber
Condition: FCC PART C 247 AV 3m Horizontal

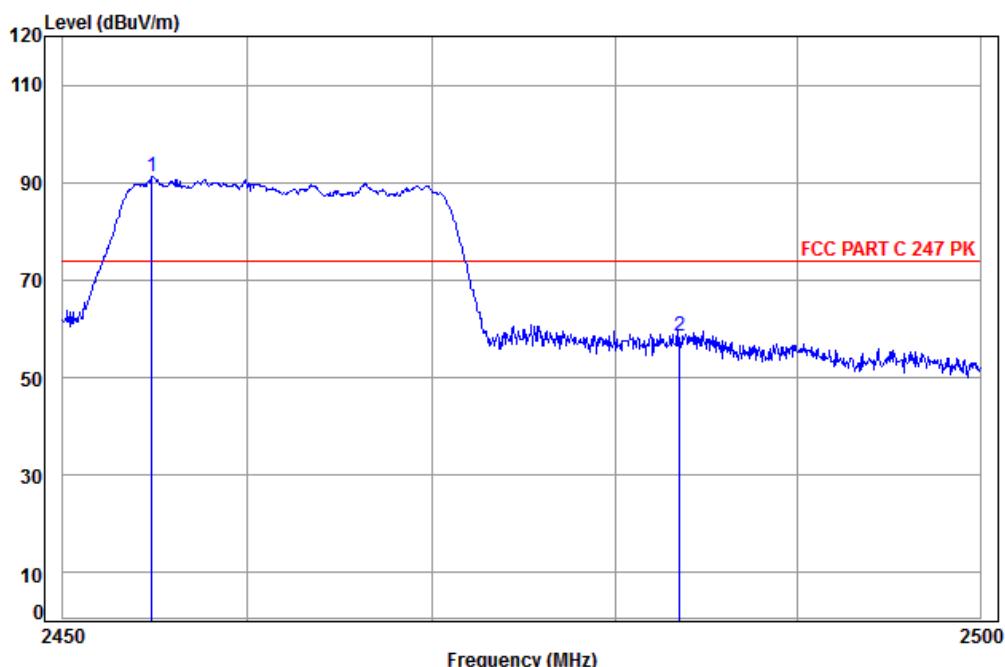
Job No: : 4402CR

Mode: : 2412 N20 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	51.78	50.57	54.00	-3.43
2 pp	2419.69	4.94	32.42	38.46	95.14	94.04	54.00	40.04

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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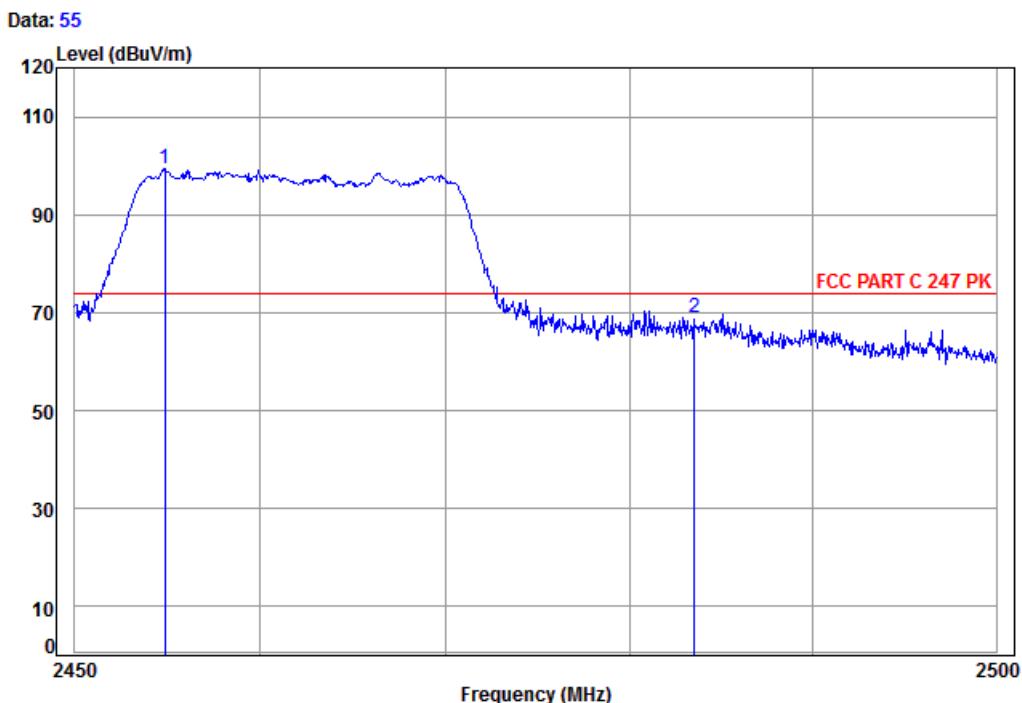
Data: 57



Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 4402CR
Mode: : 2462 N20 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over	
				Level	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.81	4.99	32.43	38.46	92.26	91.22	74.00	17.22
2	2483.50	5.03	32.44	38.47	59.67	58.67	74.00	-15.33

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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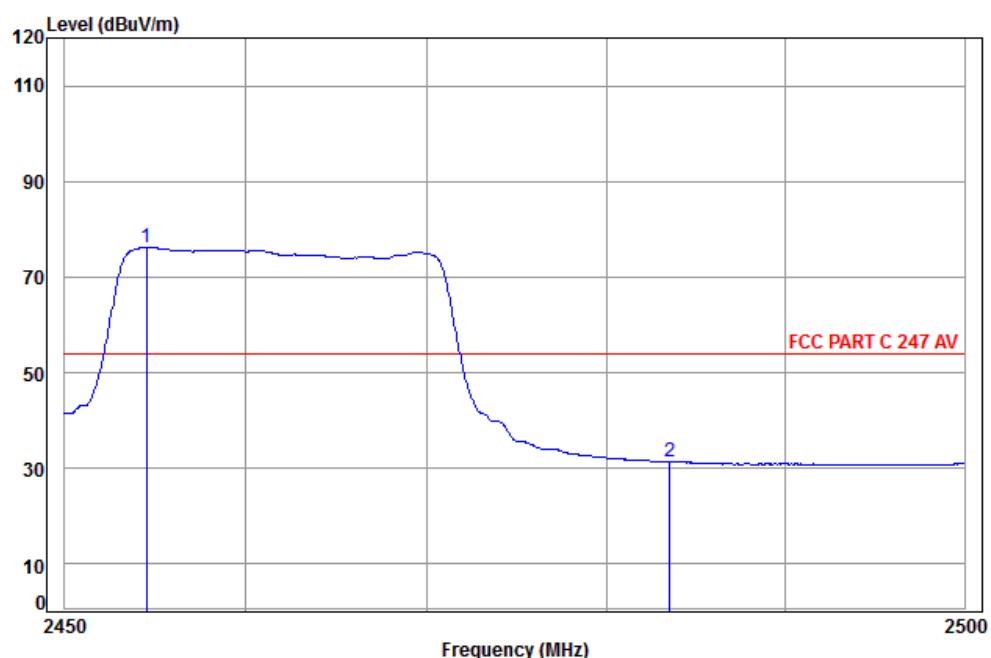
Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2462 N20 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.86	4.99	32.43	38.46	100.41	99.37	74.00 25.37
2	2483.50	5.03	32.44	38.47	70.06	69.06	74.00 -4.94

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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Data: 58


Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

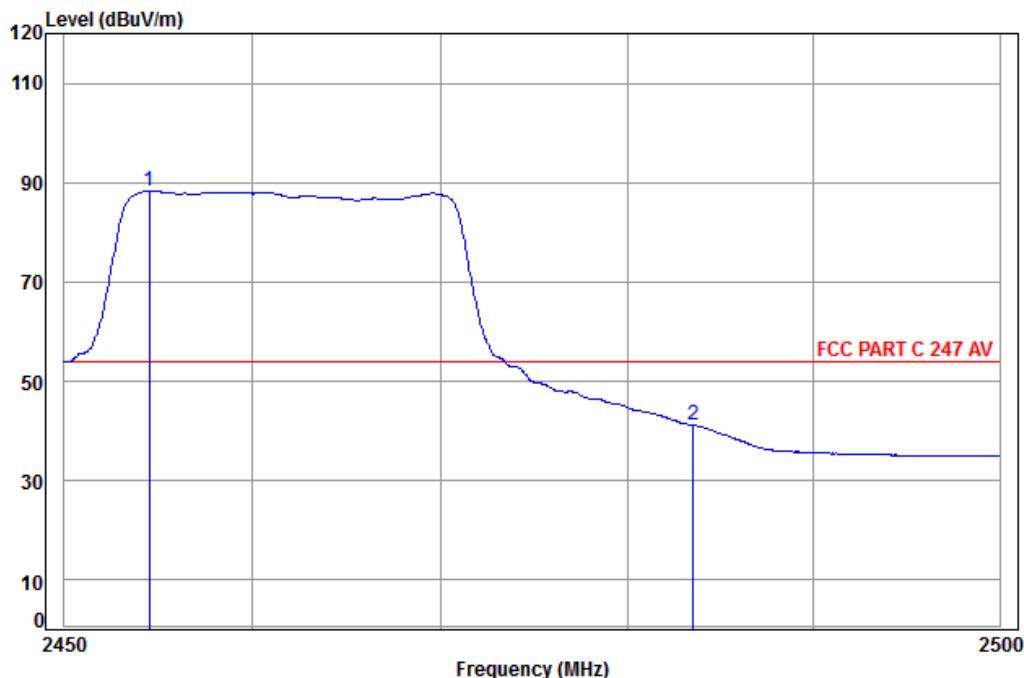
Job No: : 4402CR

Mode: : 2462 N20 Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.51	4.99	32.43	38.46	77.35	76.31	54.00	22.31
2	2483.50	5.03	32.44	38.47	32.39	31.39	54.00	-22.61

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 56

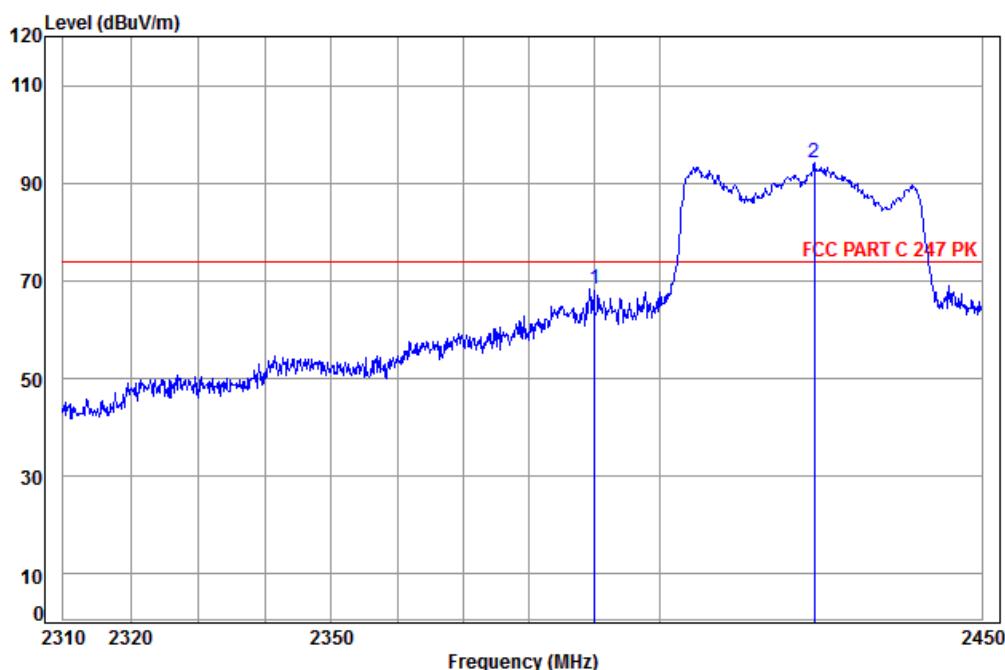


Site : chamber
Condition: FCC PART C 247 AV 3m Horizontal
Job No: : 4402CR
Mode: : 2462 N20 Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2454.51	4.99	32.43	38.46	89.41	88.37	54.00	34.37
2		2483.50	5.03	32.44	38.47	42.18	41.18	54.00	-12.82

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 61



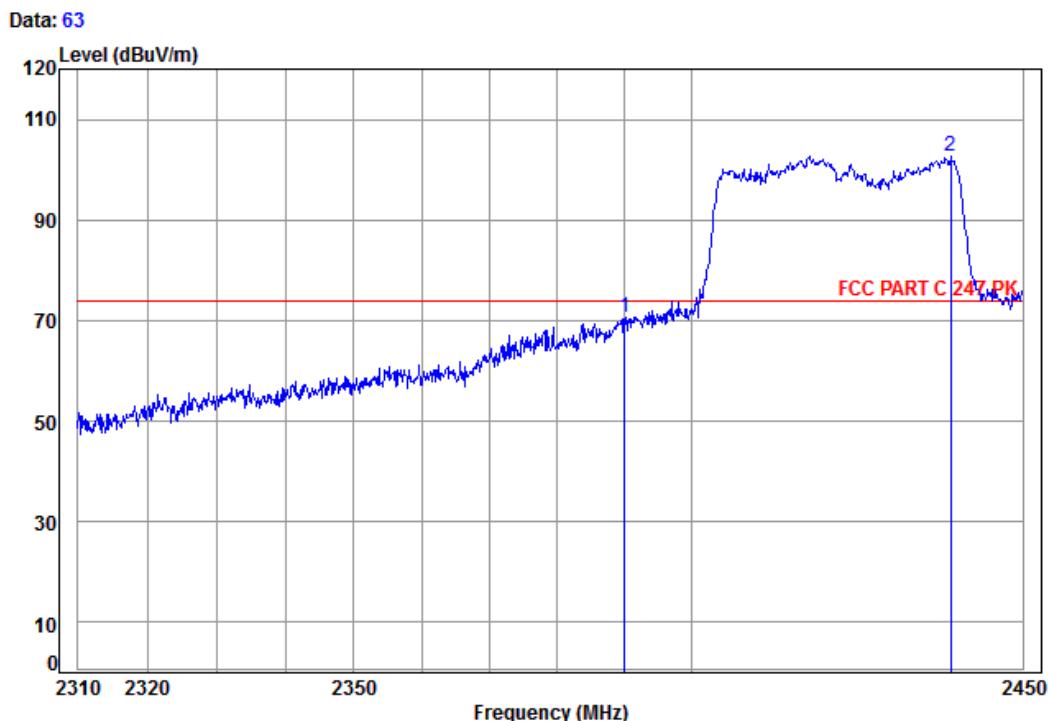
Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 4402CR

Mode: : 2422 N40 Band edge

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit
				dB	dB/m	dB	dB
1	2390.00	4.90	32.35	38.46	69.47	68.26	74.00 -5.74
2 pp	2423.90	4.95	32.42	38.46	95.20	94.11	74.00 20.11



Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

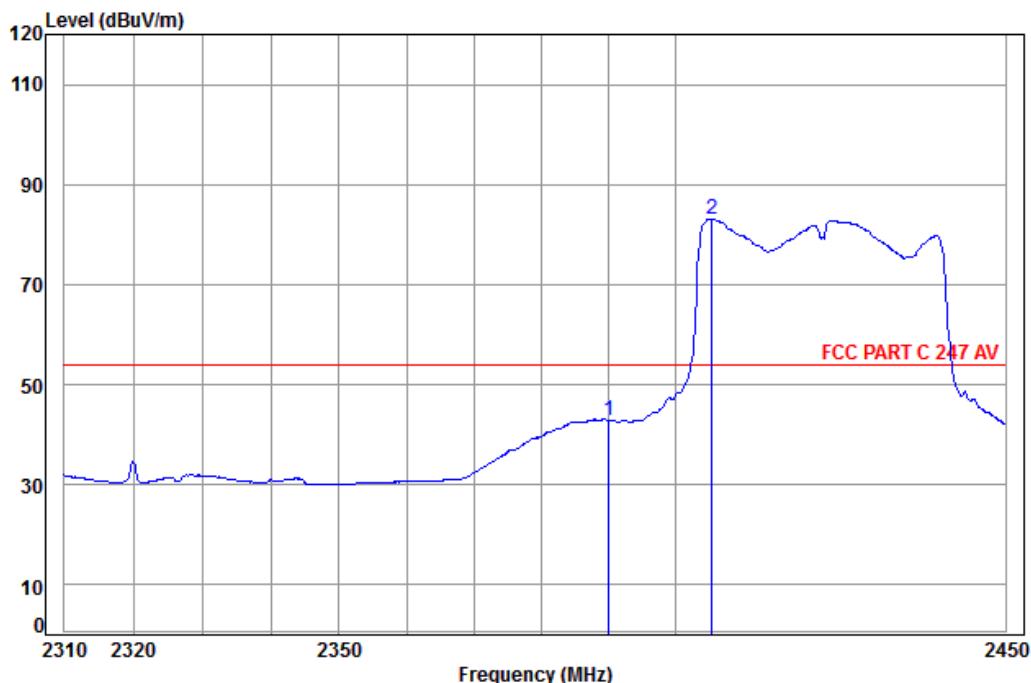
Job No: : 4402CR

Mode: : 2422 N40 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	71.91	70.70	74.00	-3.30
2 pp	2439.07	4.97	32.42	38.46	103.83	102.76	74.00	28.76

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 62



Site : chamber

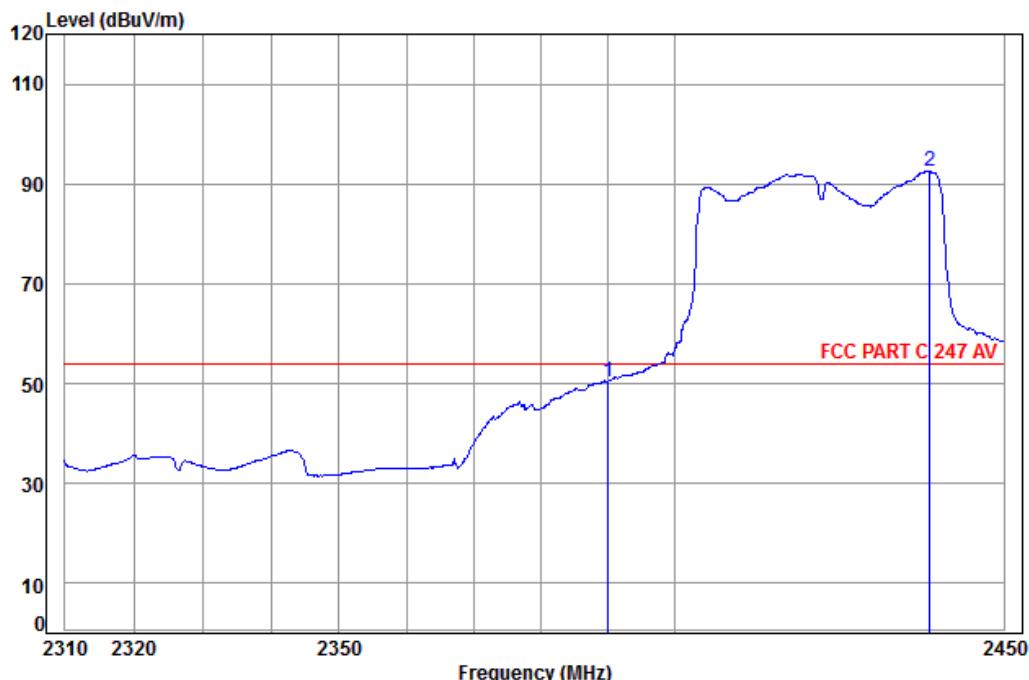
Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2422 N40 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m
1	2390.00	4.90	32.35	38.46	44.03	42.82	54.00	-11.18
2 pp	2405.43	4.92	32.41	38.46	84.20	83.07	54.00	29.07

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 64


Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

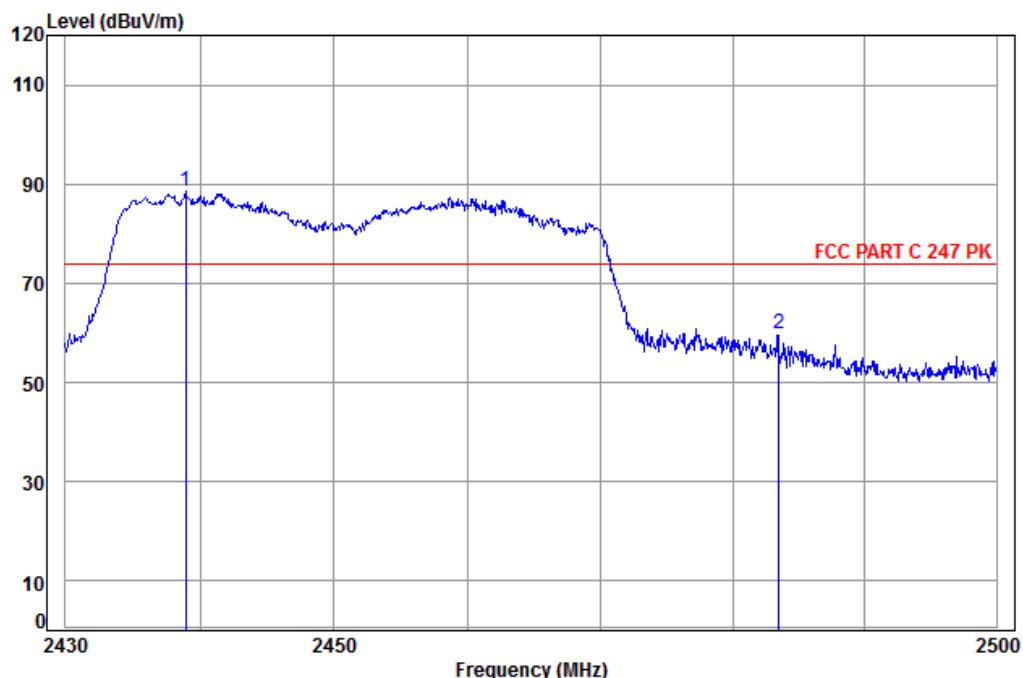
Job No: : 4402CR

Mode: : 2422 N40 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	51.73	50.52	54.00	-3.48
2 pp	2438.64	4.97	32.42	38.46	93.55	92.48	54.00	38.48

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 67



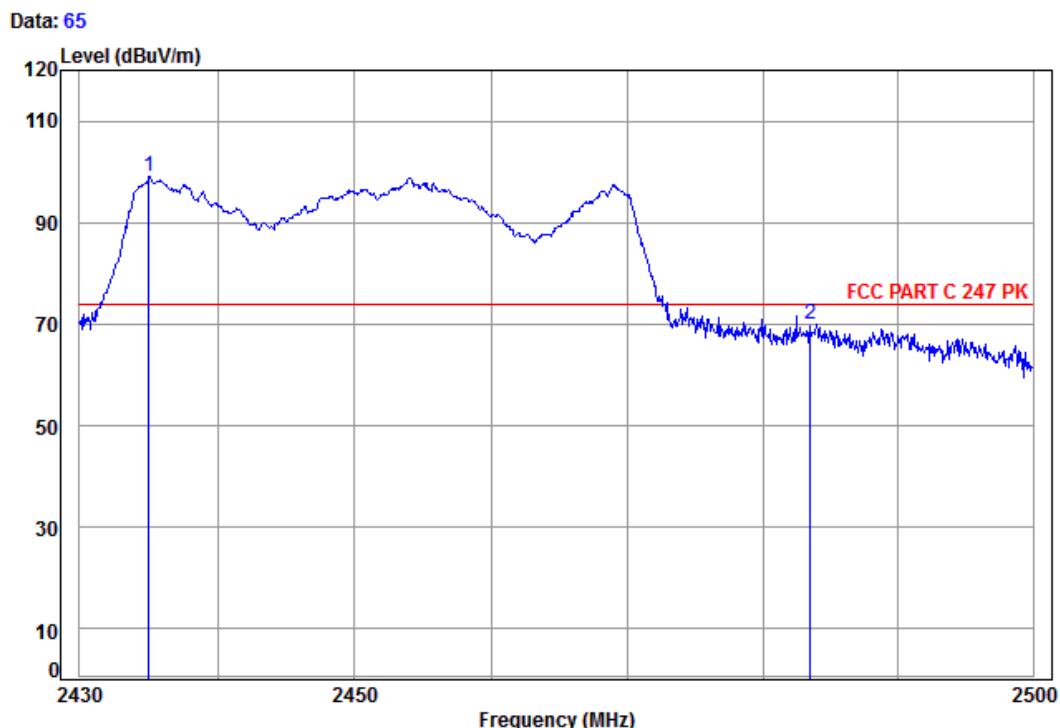
Site : chamber
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2452 N40 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2438.92	4.97	32.42	38.46	89.57	88.50	74.00	14.50
2		2483.50	5.03	32.44	38.47	60.89	59.89	74.00	-14.11

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber

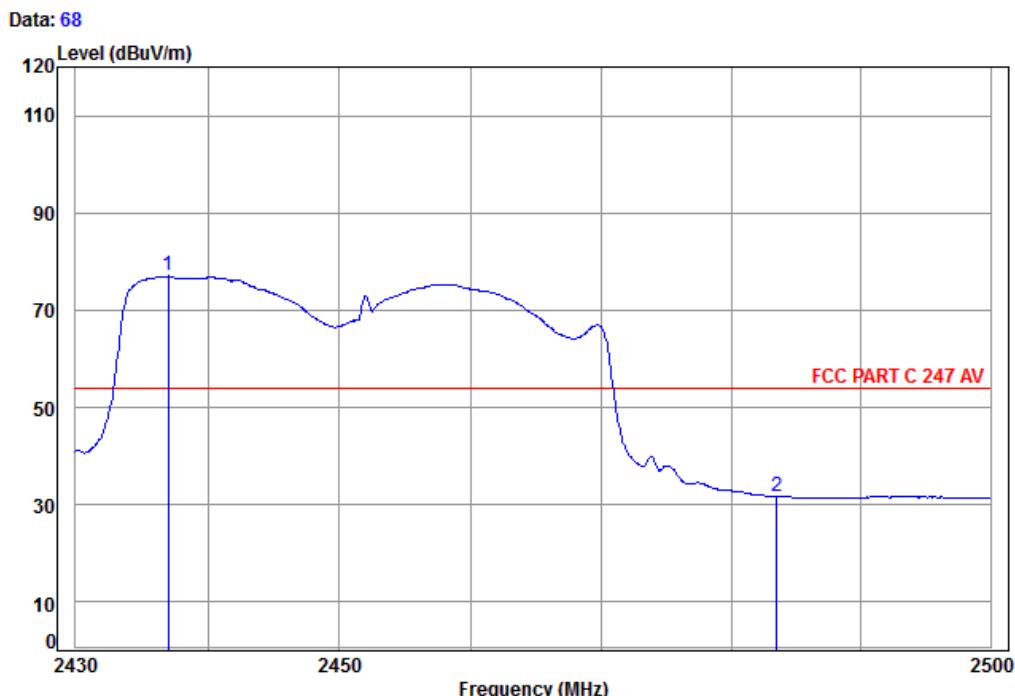
Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2452 N40 Band edge

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2435.04	4.96	32.42	38.46	100.08	99.00	74.00	25.00
2	2483.50	5.03	32.44	38.47	70.88	69.88	74.00	-4.12

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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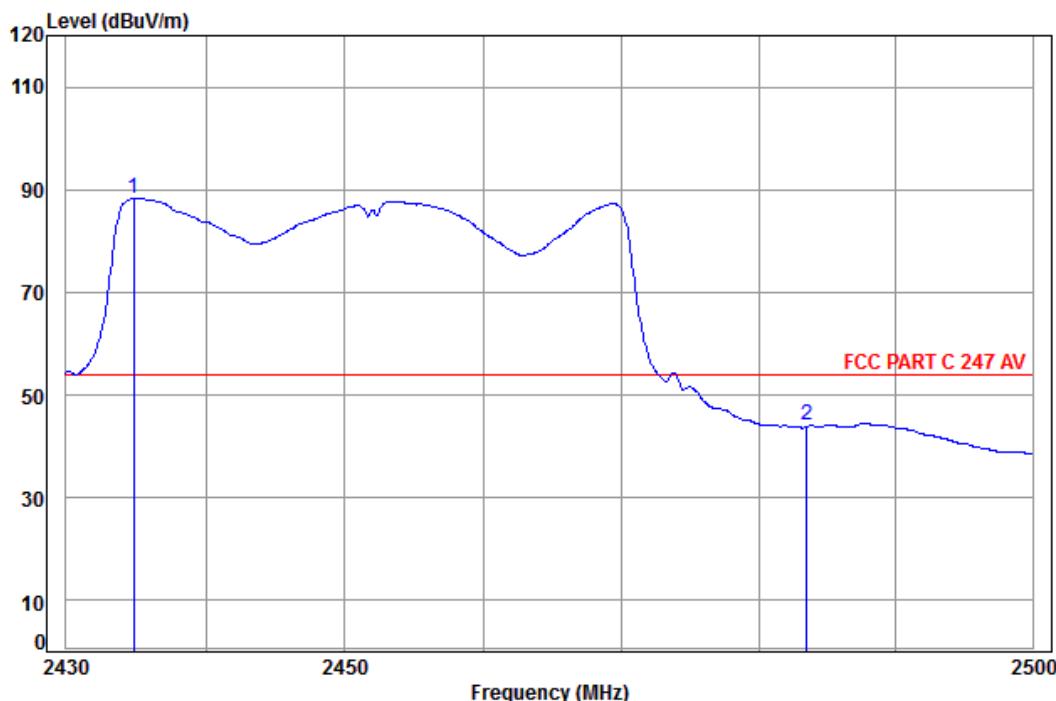
Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2452 N40 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2436.98	4.97	32.42	38.46	78.08	77.01	54.00	23.01
2	2483.50	5.03	32.44	38.47	32.63	31.63	54.00	-22.37

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 66


Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 4402CR

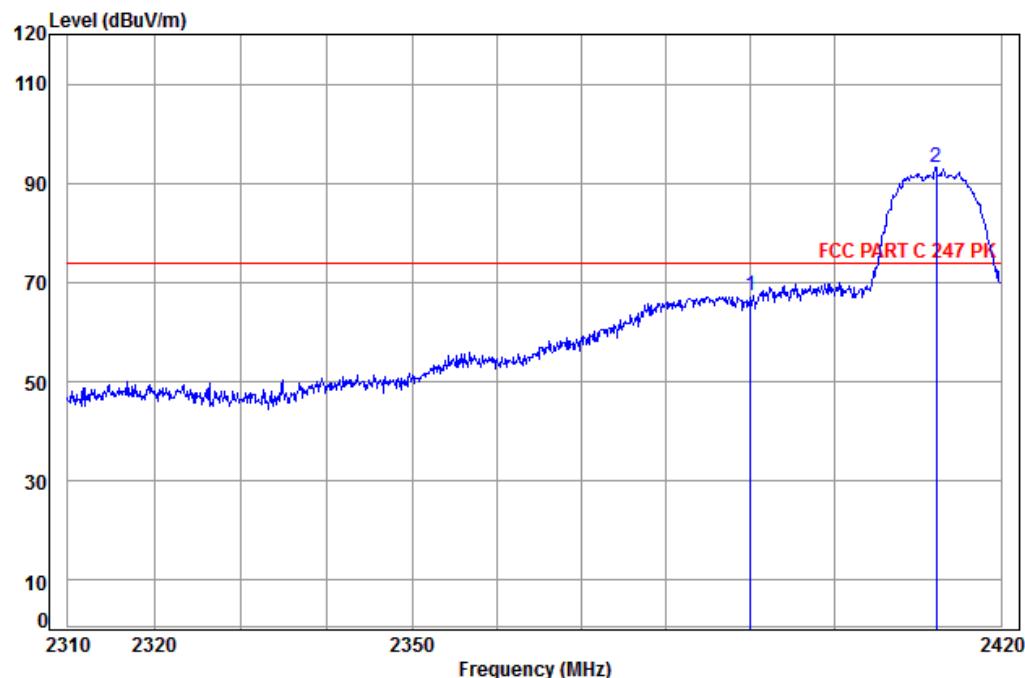
Mode: : 2452 N40 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2434.84	4.96	32.42	38.46	89.51	88.43	54.00	34.43
2		2483.50	5.03	32.44	38.47	45.07	44.07	54.00	-9.93

With FPC Antenna:

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 3



Site : chamber

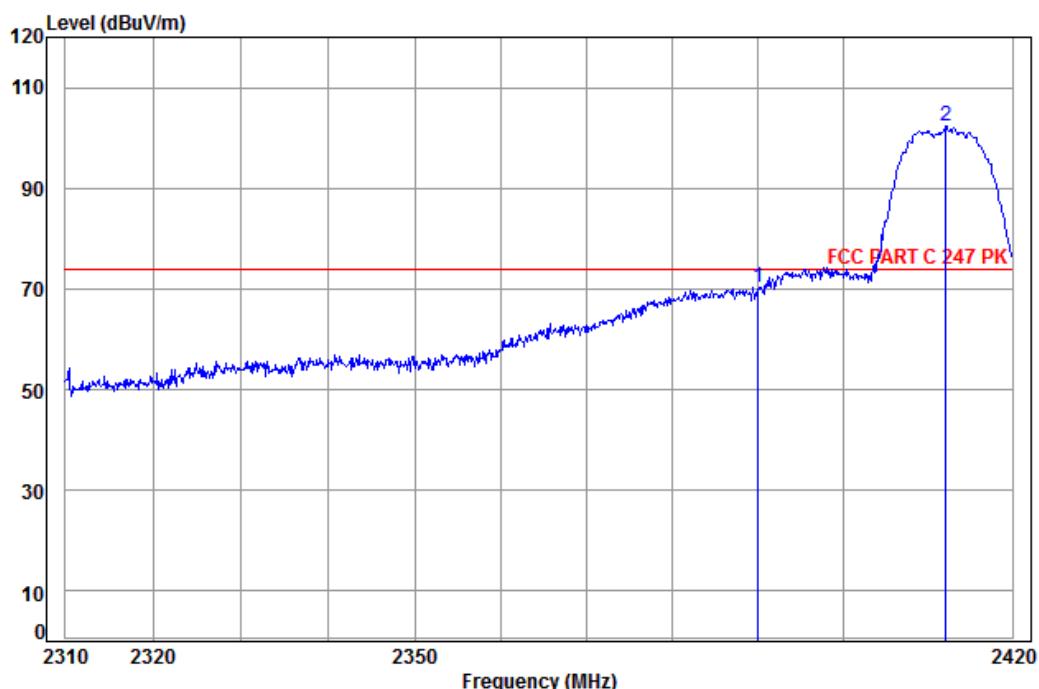
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2412 B Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2390.00	4.90	32.35	38.46	68.53	67.32	74.00	-6.68
2	pp	2412.25	4.93	32.41	38.46	94.34	93.22	74.00	19.22

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 1


Site : chamber

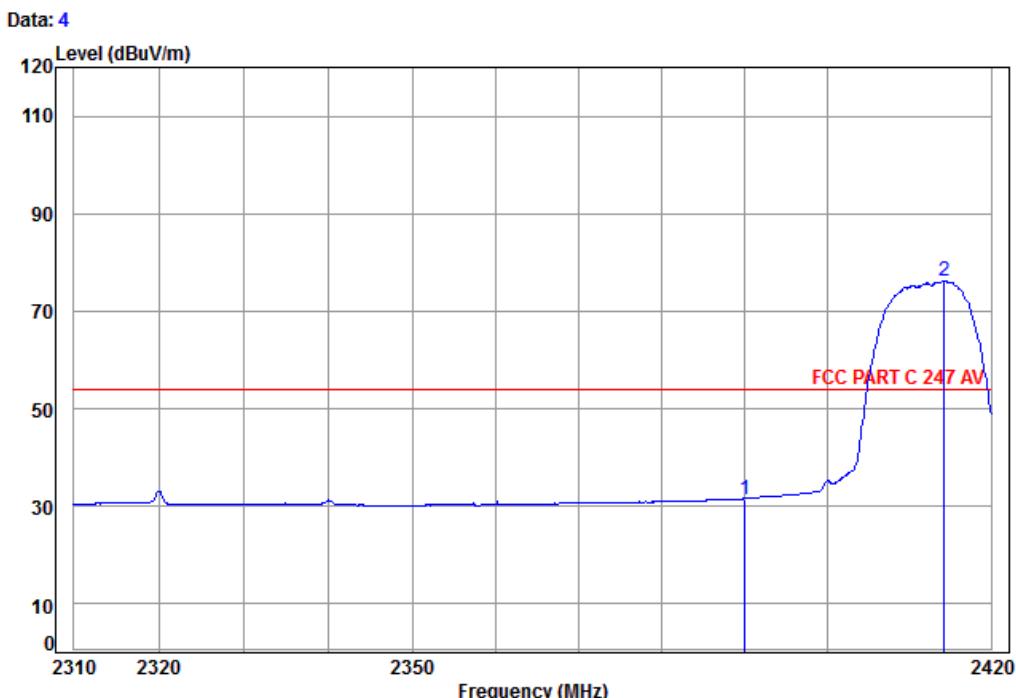
Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2412 B Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	71.48	70.27	74.00	-3.73
2 pp	2412.13	4.93	32.41	38.46	103.47	102.35	74.00	28.35

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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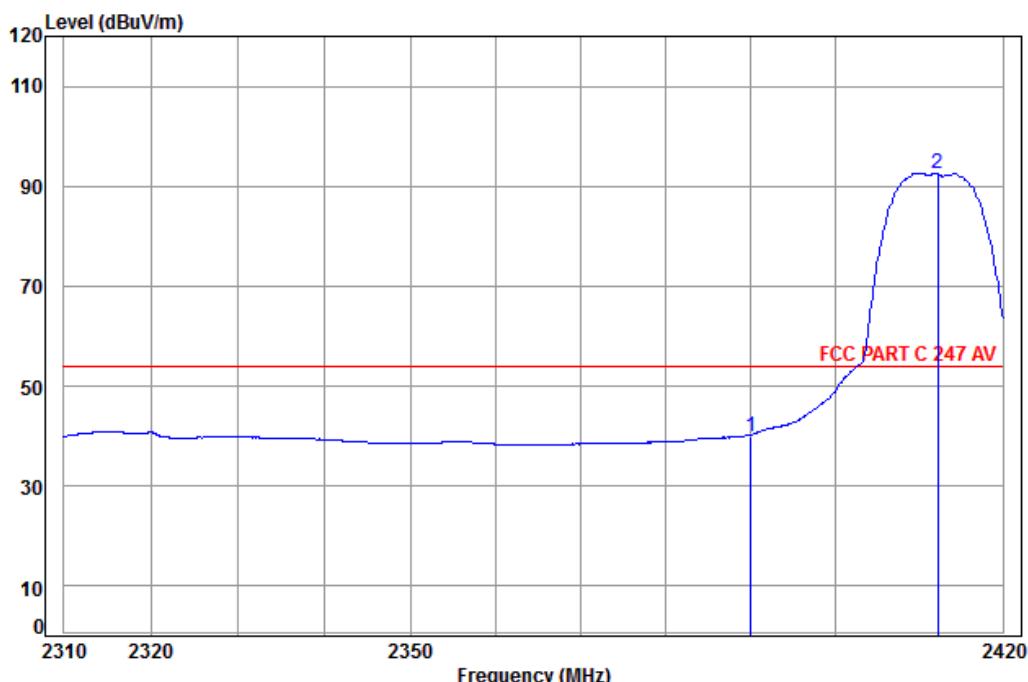


Site : chamber
Condition: FCC PART C 247 AV 3m Vertical
Job No: : 4402CR
Mode: : 2412 B Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over	Line	Over
	Freq	Loss	Factor	Factor	Level	Level	dB	Line
1	2390.00	4.90	32.35	38.46	32.75	31.54	54.00	-22.46
2 pp	2414.27	4.93	32.42	38.46	77.45	76.34	54.00	22.34



Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 2


Site : chamber

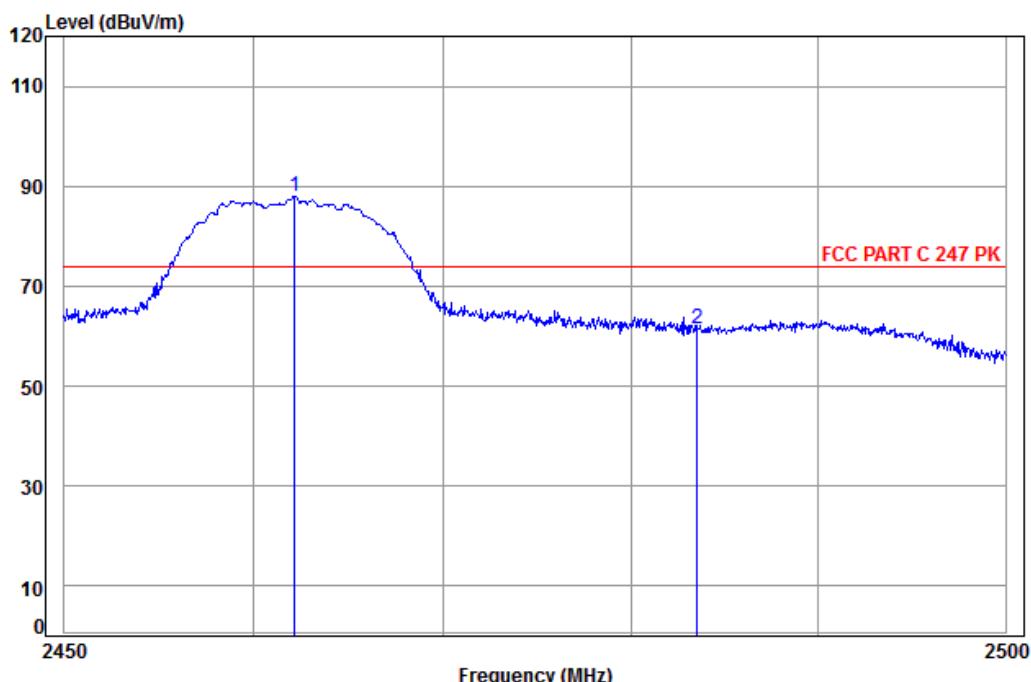
Condition: FCC PART C 247 AV 3m Horizontal

Job No: 4402CR

Mode: 2412 B Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	41.26	40.05	54.00	-13.95
2 pp	2412.25	4.93	32.41	38.46	93.81	92.69	54.00	38.69

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 5


Site : chamber

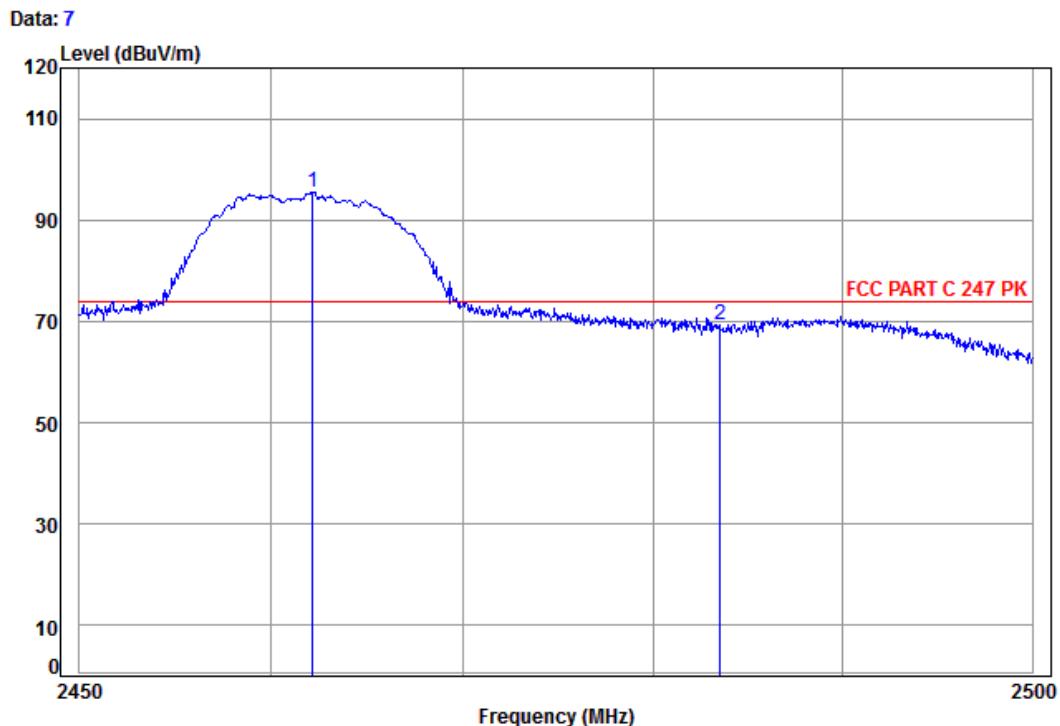
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2462 B Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2462.16	5.00	32.43	38.46	88.95	87.92	74.00	13.92
2	2483.50	5.03	32.44	38.47	62.57	61.57	74.00	-12.43

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber

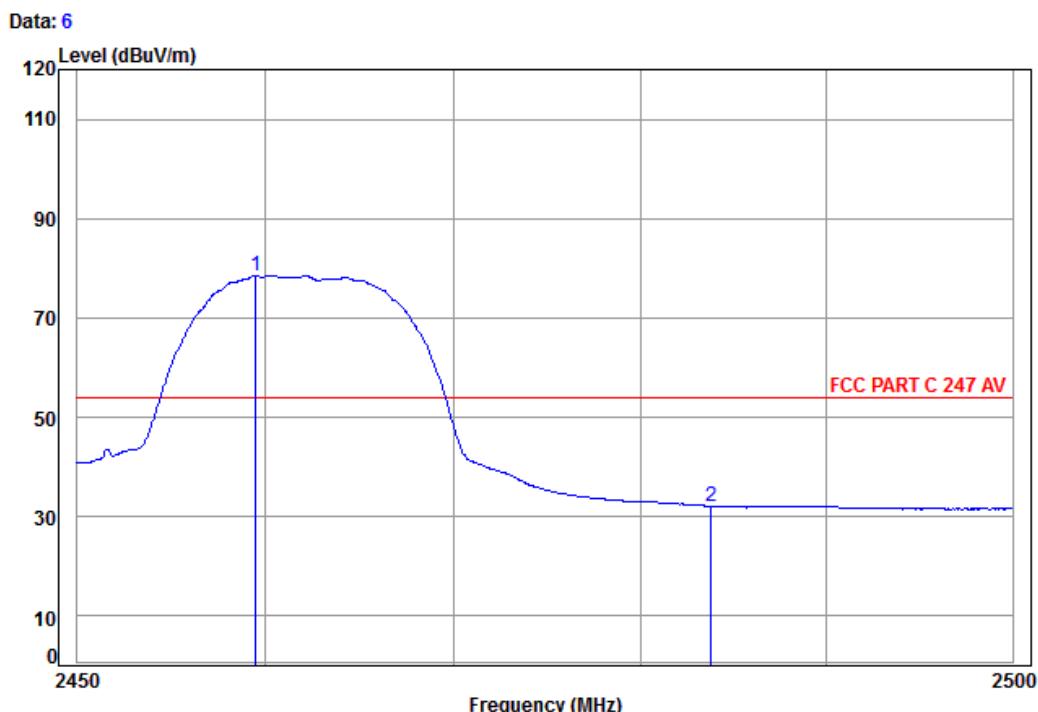
Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 4402CR

Mode: : 2462 B Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2462.16	5.00	32.43	38.46	96.66	95.63	74.00	21.63
2		2483.50	5.03	32.44	38.47	70.25	69.25	74.00	-4.75

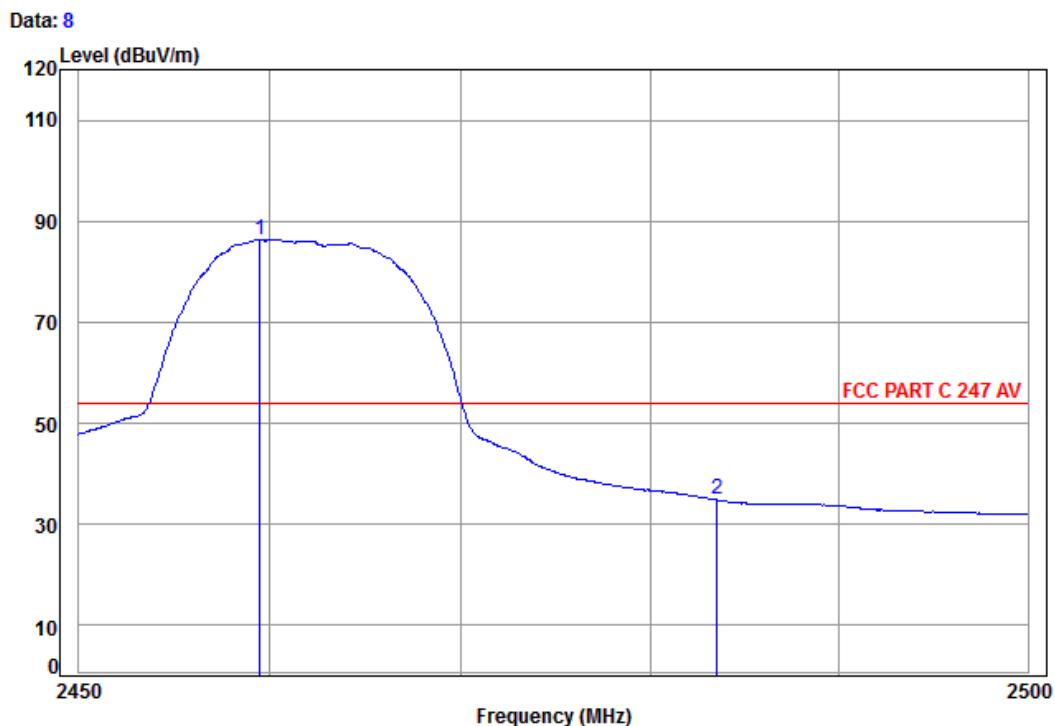
Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Site : chamber
Condition: FCC PART C 247 AV 3m Vertical
Job No: : 4402CR
Mode: : 2462 B Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2459.47	5.00	32.43	38.46	79.49	78.46	54.00	24.46
2		2483.80	5.03	32.44	38.47	33.19	32.19	54.00	-21.81

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

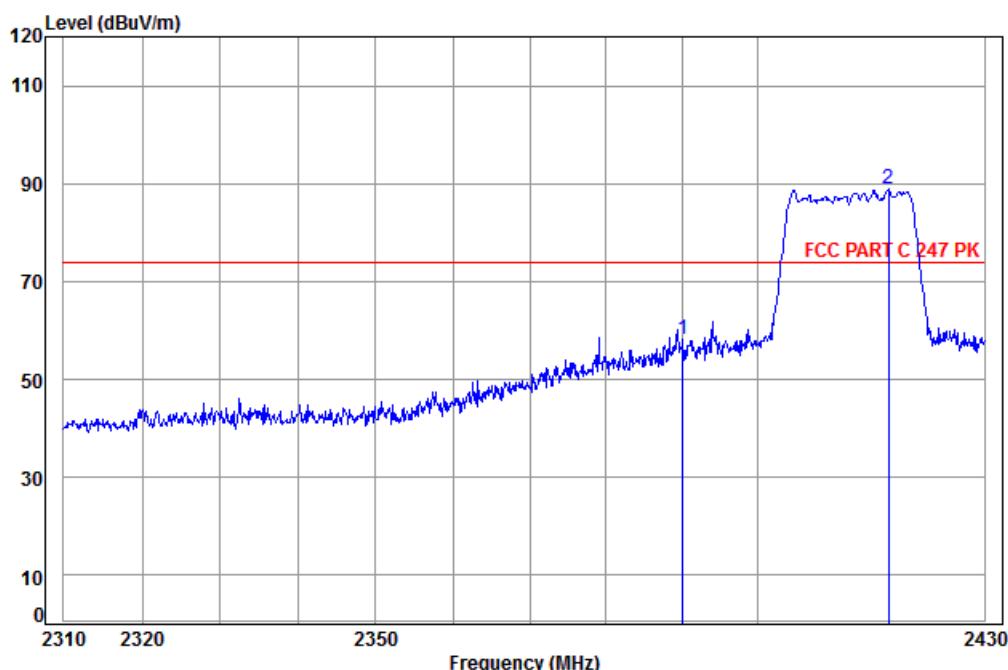
Job No: : 4402CR

Mode: : 2462 B Band edge

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 pp	2459.47	5.00	32.43	38.46	87.48	86.45	54.00	32.45
2	2483.50	5.03	32.44	38.47	35.83	34.83	54.00	-19.17

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 13



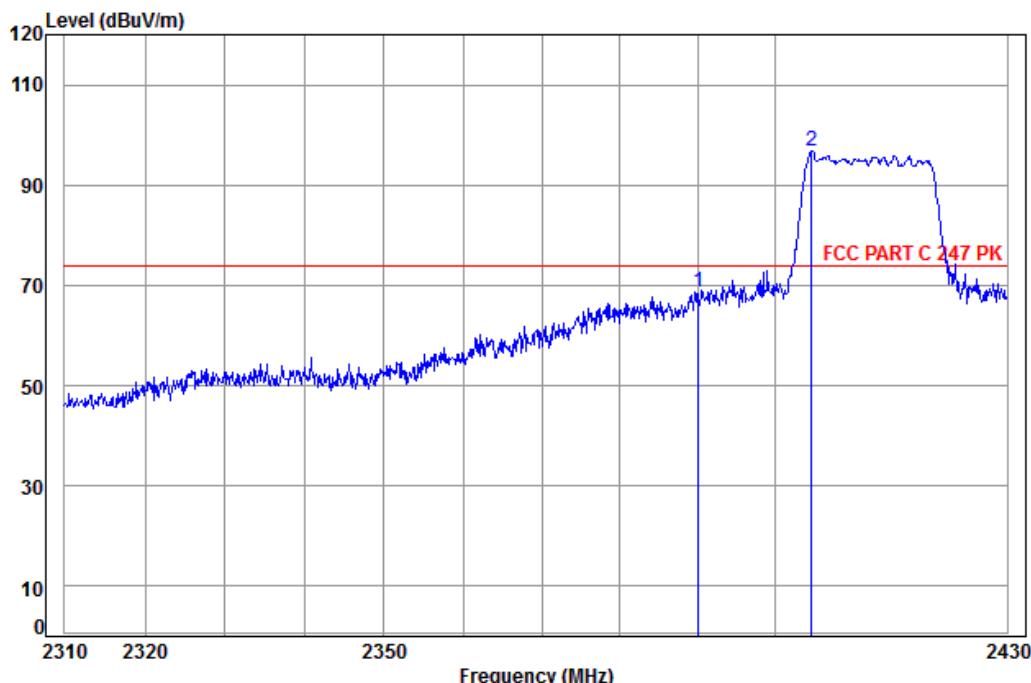
Site : chamber
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2412 G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	59.35	58.14	74.00	-15.86
2 pp	2417.24	4.94	32.42	38.46	89.91	88.81	74.00	14.81

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 15


Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

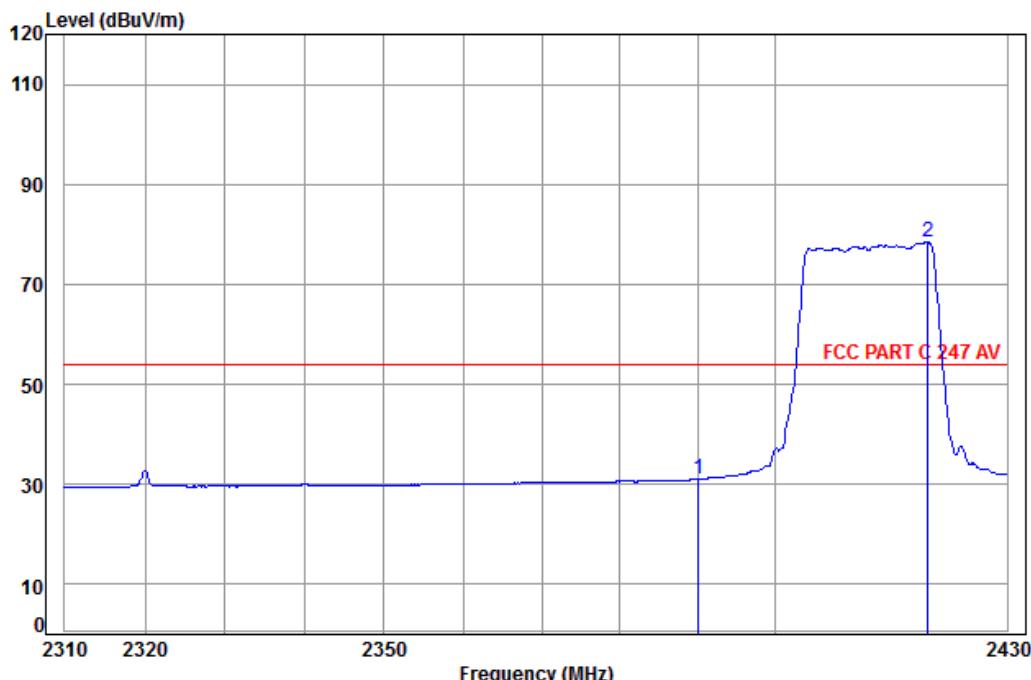
Job No: : 4402CR

Mode: : 2412 G Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	69.73	68.52	74.00	-5.48
2 pp	2404.66	4.92	32.41	38.46	98.06	96.93	74.00	22.93

Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 14



Site : chamber

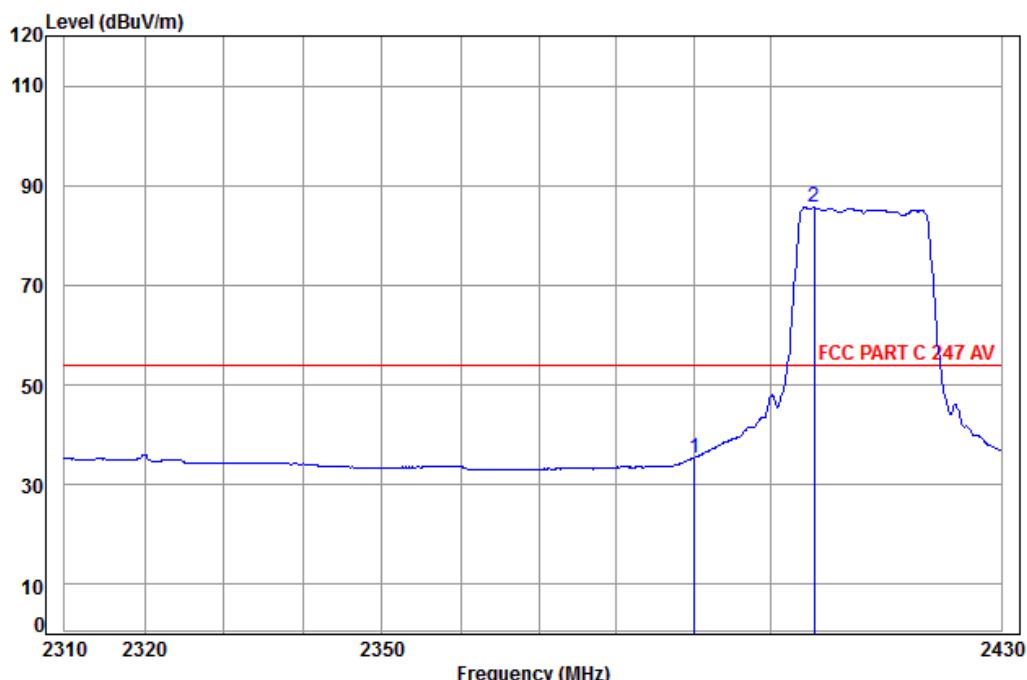
Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2412 G Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.00	4.90	32.35	38.46	32.28	31.07	54.00	-22.93
2 pp		2419.69	4.94	32.42	38.46	79.58	78.48	54.00	24.48

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 16


Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

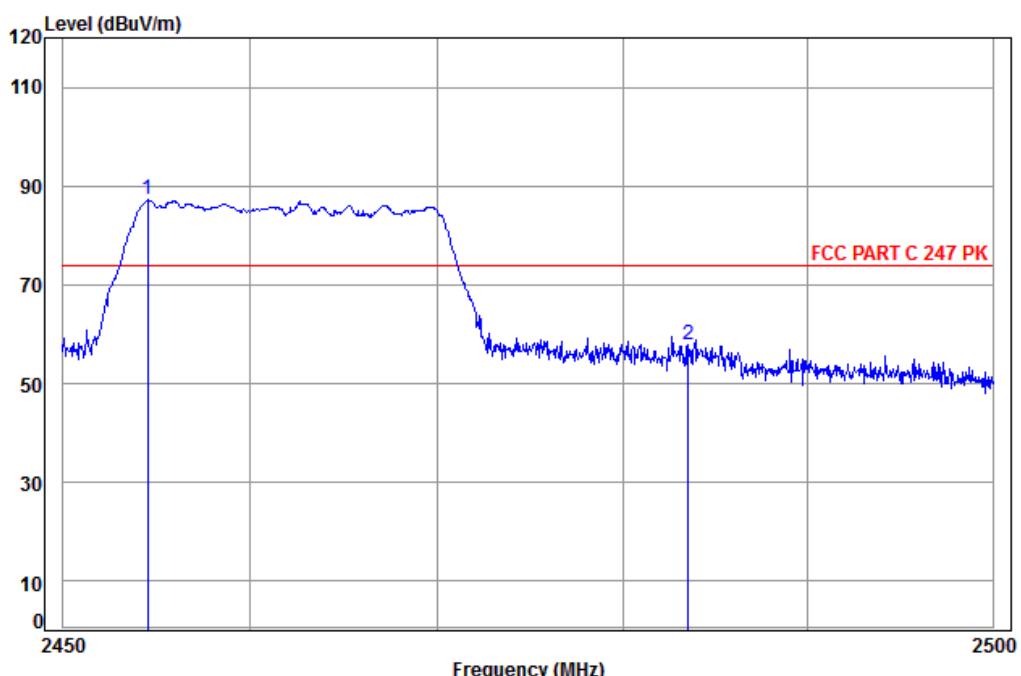
Job No: : 4402CR

Mode: : 2412 G Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	36.47	35.26	54.00	-18.74
2 pp	2405.51	4.92	32.41	38.46	86.73	85.60	54.00	31.60

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 11



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

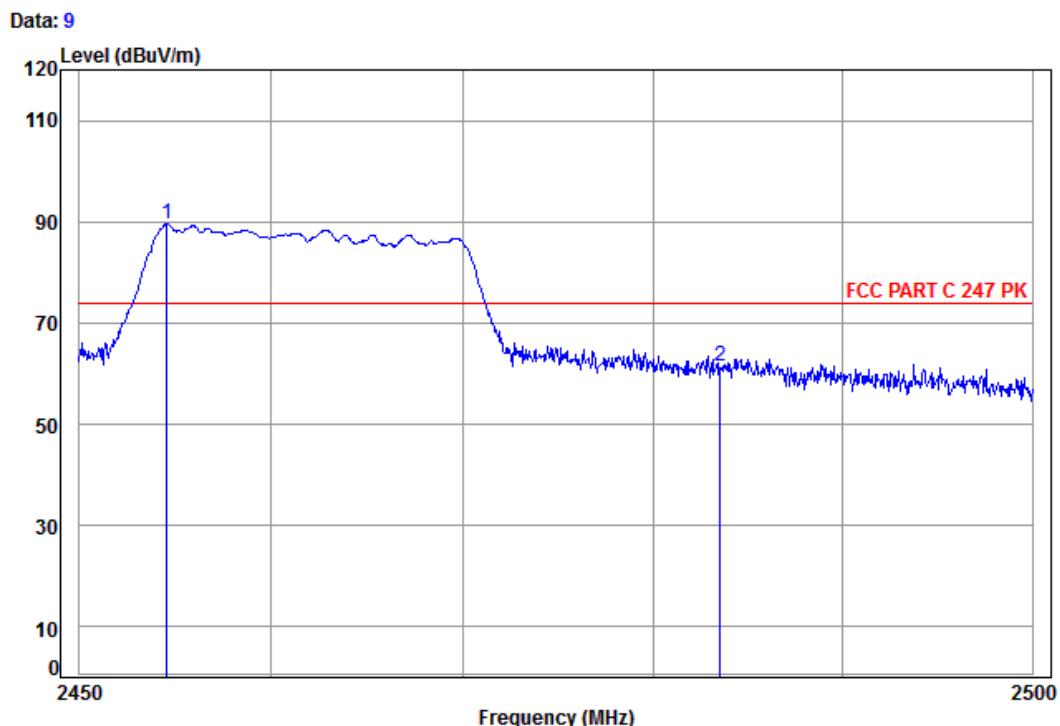
Job No: : 4402CR

Mode: : 2462 G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.51	4.99	32.43	38.46	88.18	87.14	74.00	13.14
2	2483.50	5.03	32.44	38.47	58.90	57.90	74.00	-16.10



Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

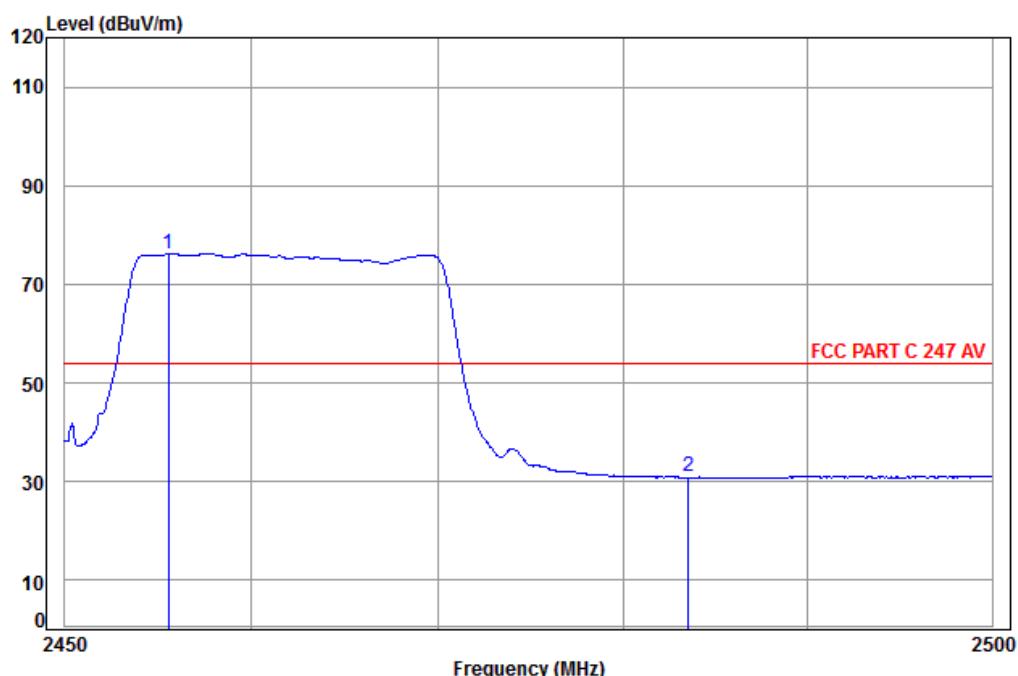
Job No: : 4402CR

Mode: : 2462 G Band edge

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 pp	2454.56	4.99	32.43	38.46	90.51	89.47	74.00	15.47
2	2483.50	5.03	32.44	38.47	62.39	61.39	74.00	-12.61

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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Data: 12



Site : chamber

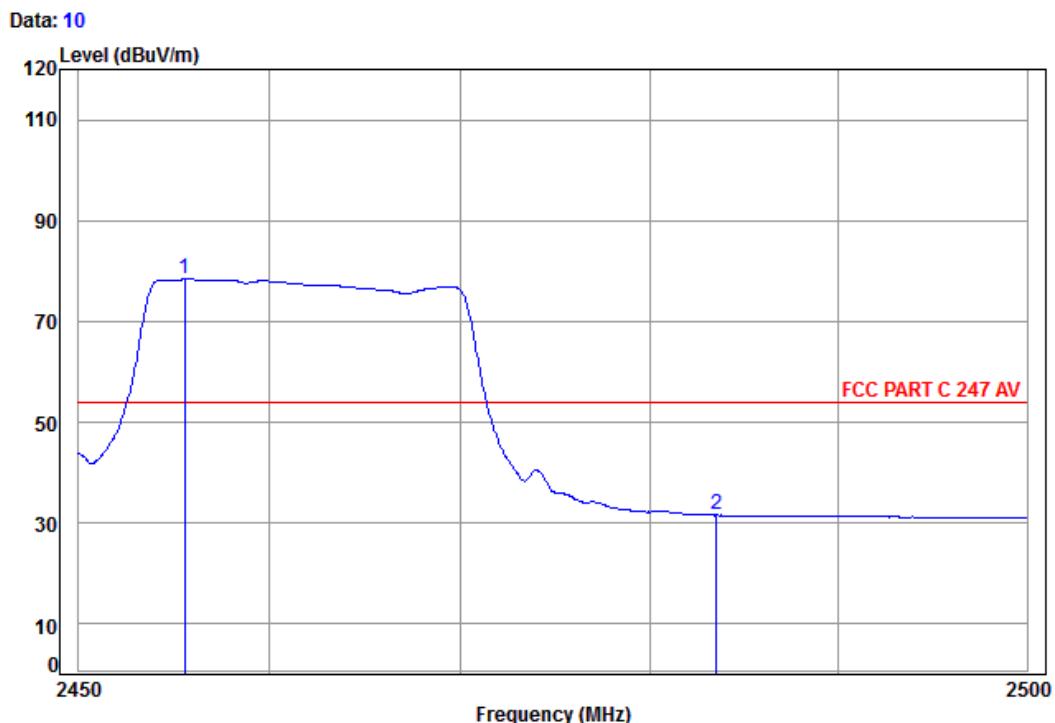
Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2462 G Band edge

Freq	MHz	Cable	Ant	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level	Level	Line	Limit
1 pp	2455.55	4.99	32.43	38.46	77.15	76.11	54.00	22.11
2	2483.50	5.03	32.44	38.47	31.90	30.90	54.00	-23.10

Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

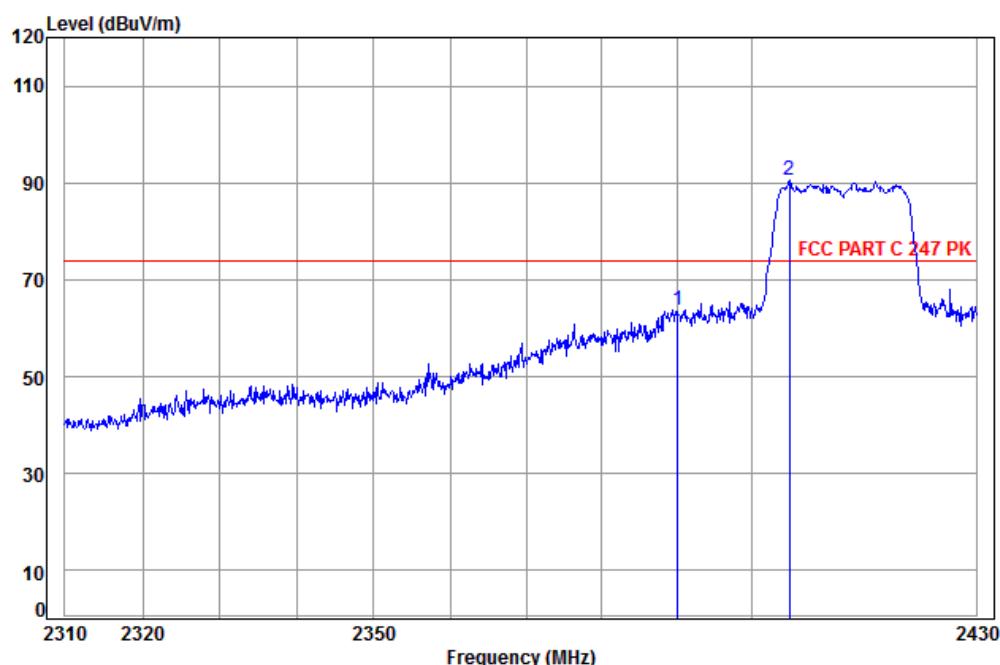
Job No: : 4402CR

Mode: : 2462 G Band edge

	Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1 pp	2455.55	4.99	32.43	38.46	79.40	78.36	54.00 24.36
2	2483.50	5.03	32.44	38.47	32.72	31.72	54.00 -22.28

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 19



Site : chamber

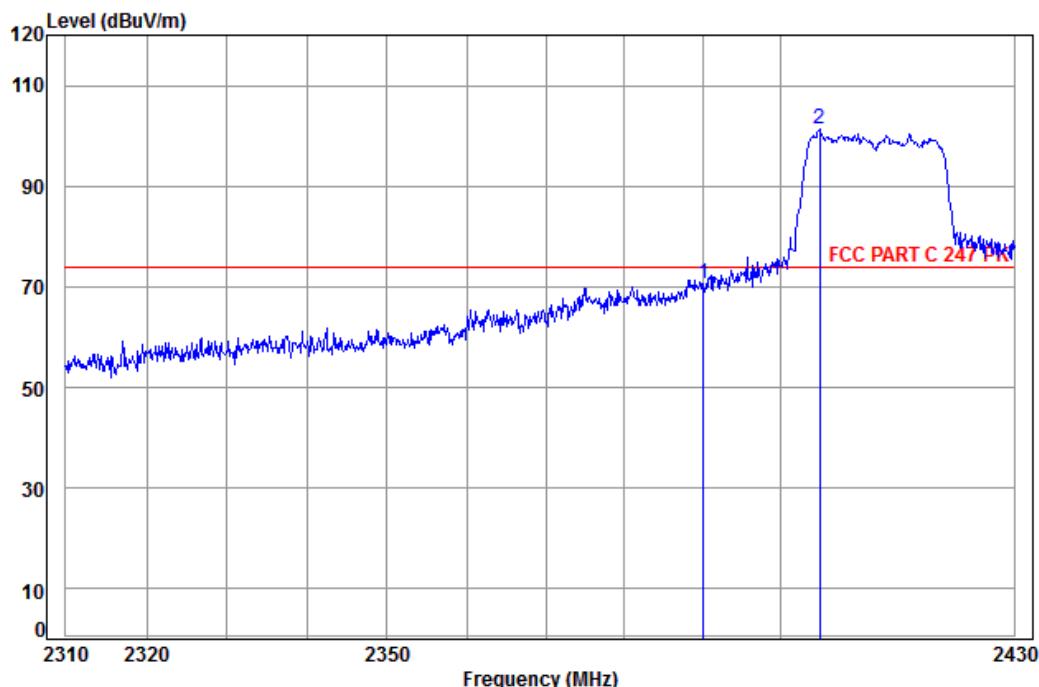
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2412 N20 Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	64.83	63.62	74.00	-10.38
2 pp	2404.90	4.92	32.41	38.46	91.78	90.65	74.00	16.65

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 17


Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

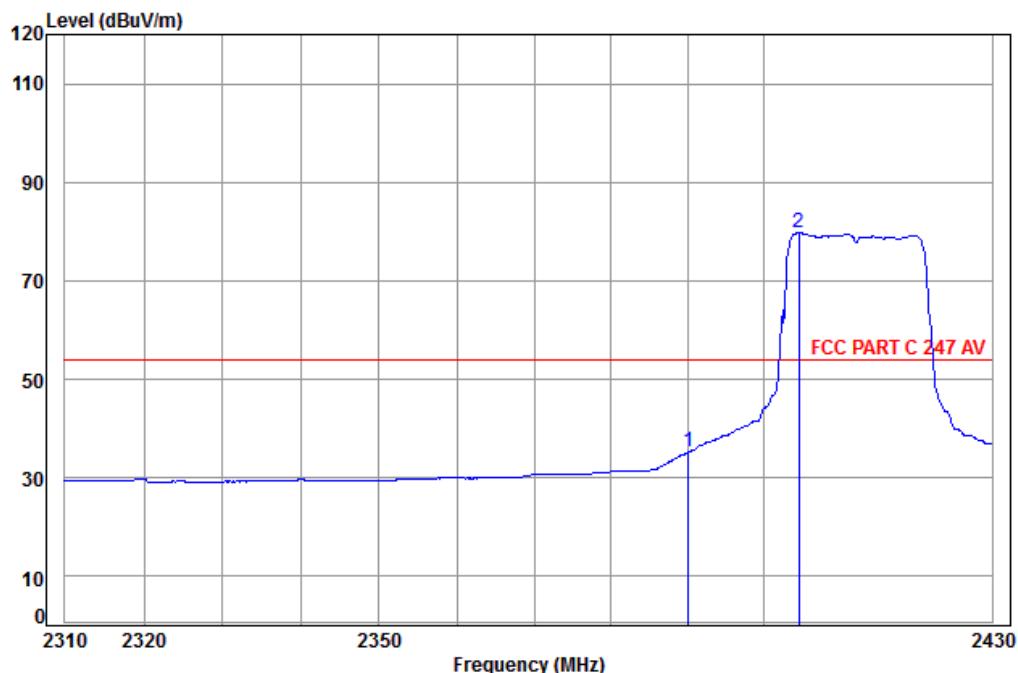
Job No: : 4402CR

Mode: : 2412 N20 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	71.81	70.60	74.00	-3.40
2 pp	2404.90	4.92	32.41	38.46	102.35	101.22	74.00	27.22

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 20



Site : chamber

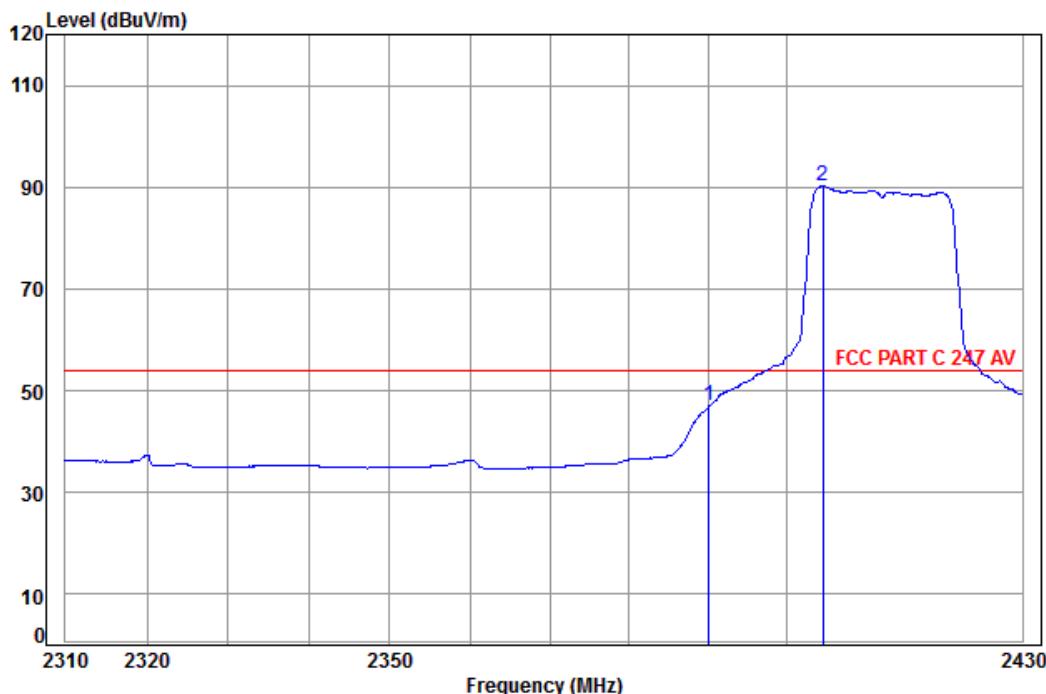
Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2412 N20 Band edge

Freq	Cable Loss		Ant Factor		Read Level		Limit	Over	
	MHz	dB	dB/m	Factor	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	36.64	36.64	35.43	54.00	-18.57
2 pp	2404.54	4.92	32.41	38.46	81.02	81.02	79.89	54.00	25.89

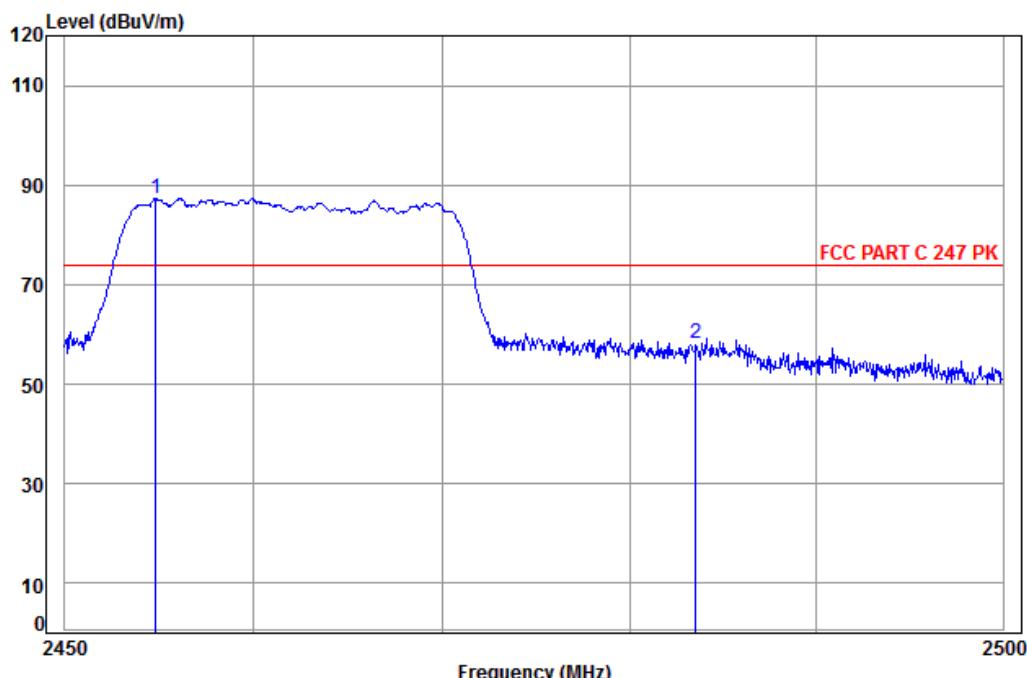
Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 18

Site : chamber
Condition: FCC PART C 247 AV 3m Horizontal
Job No: : 4402CR
Mode: : 2412 N20 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line dBuV/m	Over Limit dB
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	48.42	47.21	54.00	-6.79
2 pp	2404.54	4.92	32.41	38.46	91.38	90.25	54.00	36.25

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 21



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

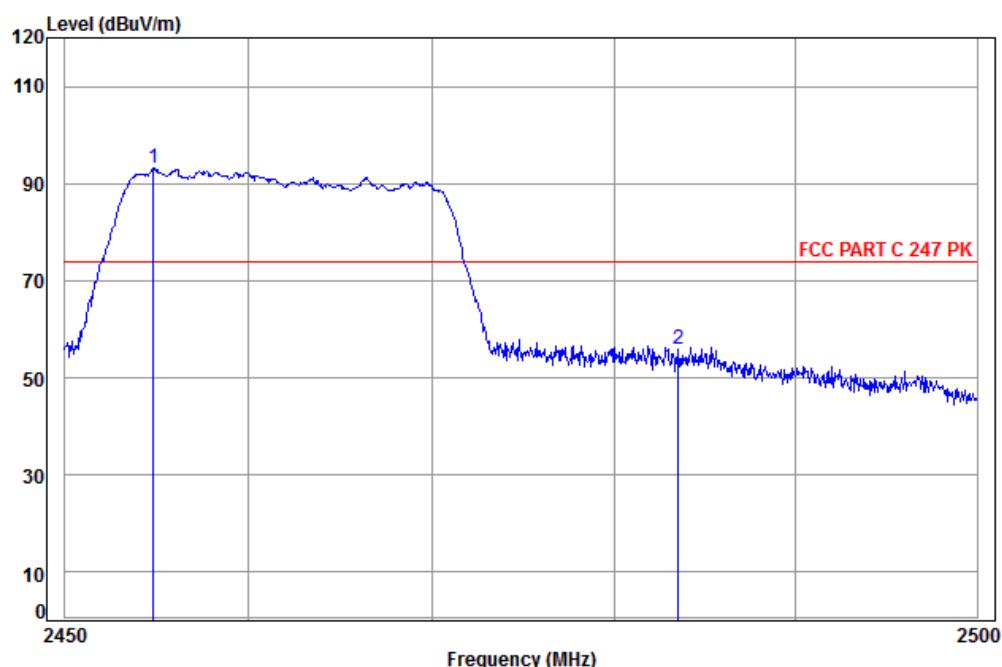
Job No: : 4402CR

Mode: : 2462 N20 Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2454.81	4.99	32.43	38.46	88.32	87.28	74.00	13.28
2		2483.50	5.03	32.44	38.47	59.19	58.19	74.00	-15.81

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 23


Site : chamber
Condition: FCC PART C 247 PK 3m Horizontal

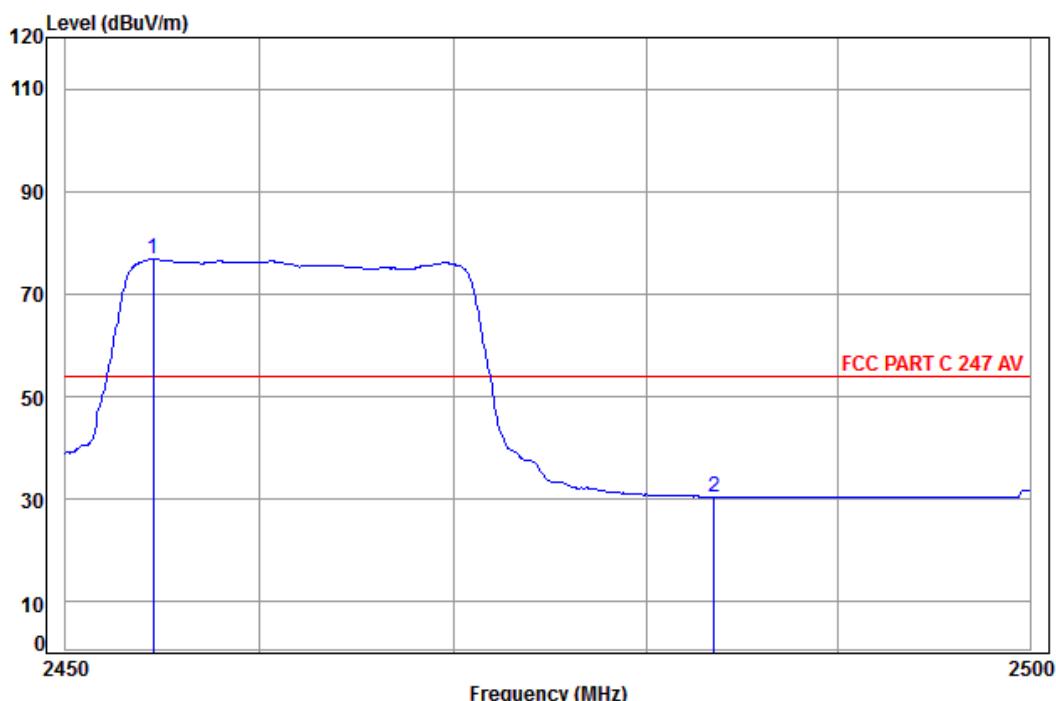
Job No: : 4402CR

Mode: : 2462 N20 Band edge

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Line
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2454.81	4.99	32.43	38.46	94.17	93.13	74.00	19.13
2	2483.50	5.03	32.44	38.47	56.83	55.83	74.00	-18.17

Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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Data: 22



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

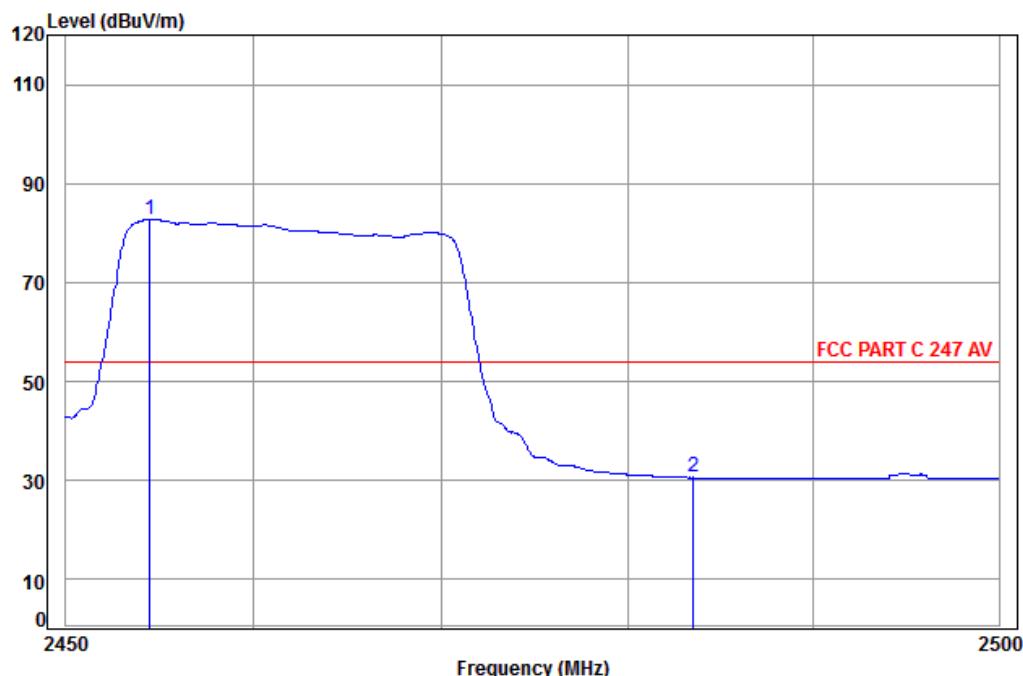
Job No: : 4402CR

Mode: : 2462 N20 Band edge

		Cable Freq	Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2454.51	4.99	32.43	38.46	77.83	76.79	54.00	22.79
2		2483.50	5.03	32.44	38.47	31.55	30.55	54.00	-23.45



Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 24


Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

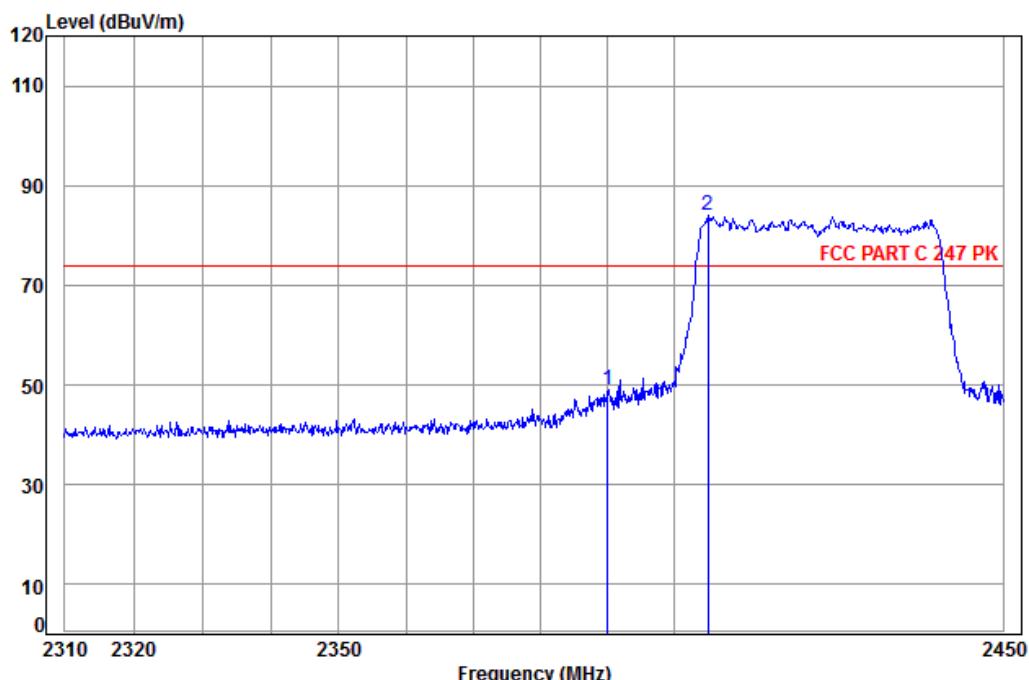
Job No: : 4402CR

Mode: : 2462 N20 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2454.46	4.99	32.43	38.46	83.84	82.80	54.00	28.80	
2	2483.50	5.03	32.44	38.47	31.60	30.60	54.00	-23.40	

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 29



Site : chamber

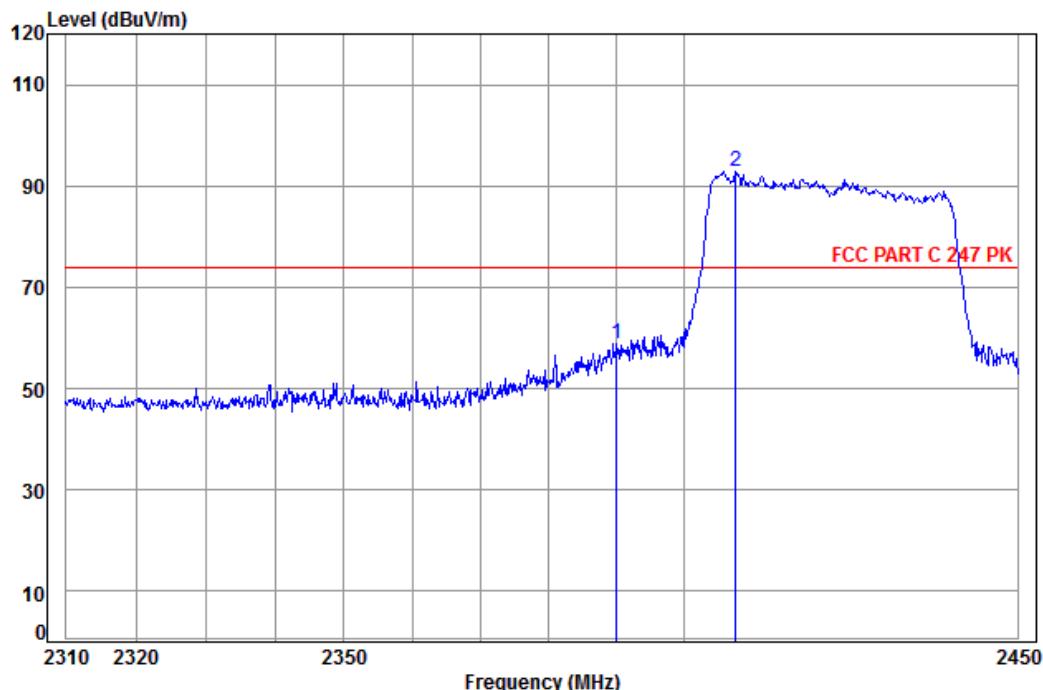
Condition: FCC PART C 247 PK 3m Vertical

Job No: : 4402CR

Mode: : 2422 N40 Band edge

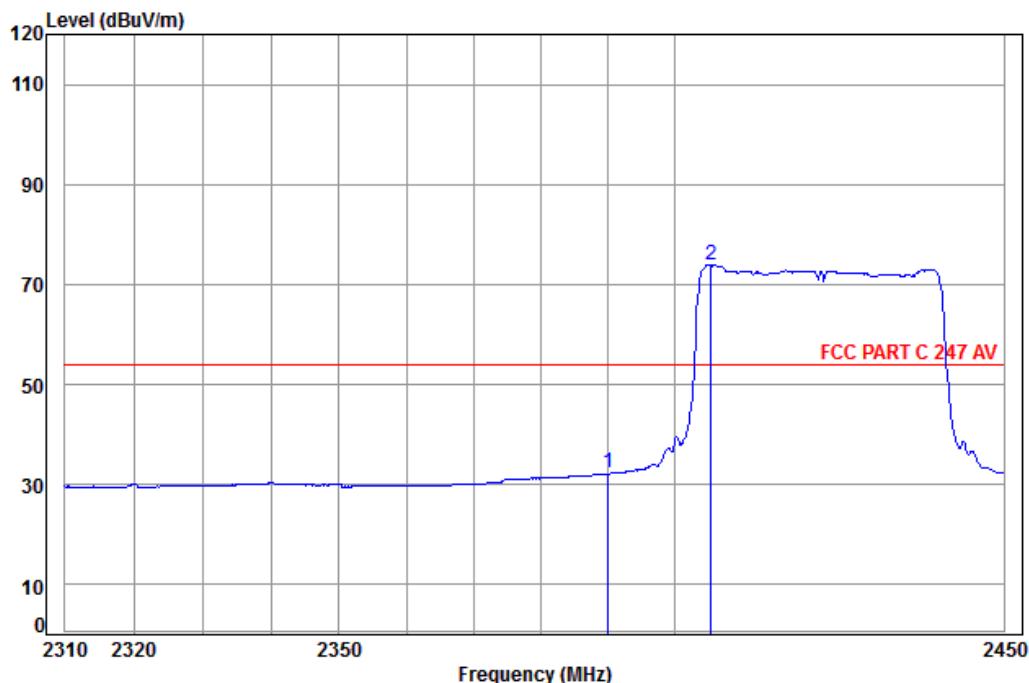
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	50.40	49.19	74.00	-24.81
2 pp	2405.15	4.92	32.41	38.46	85.01	83.88	74.00	9.88

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 31

Site : chamber
Condition: FCC PART C 247 PK 3m Horizontal
Job No: : 4402CR
Mode: : 2422 N40 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	59.94	58.73	74.00	-15.27
2 pp	2407.70	4.93	32.41	38.46	93.93	92.81	74.00	18.81

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 30


Site : chamber

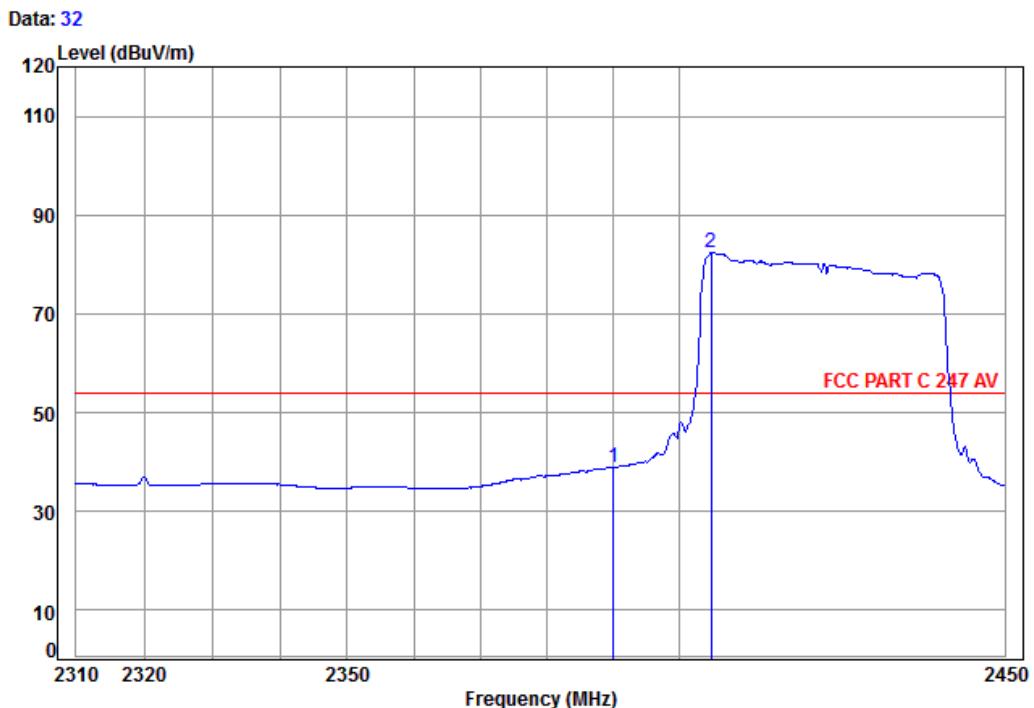
Condition: FCC PART C 247 AV 3m Vertical

Job No: : 4402CR

Mode: : 2422 N40 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	33.47	32.26	54.00	-21.74
2 pp	2405.43	4.92	32.41	38.46	75.00	73.87	54.00	19.87

Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
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Site : chamber

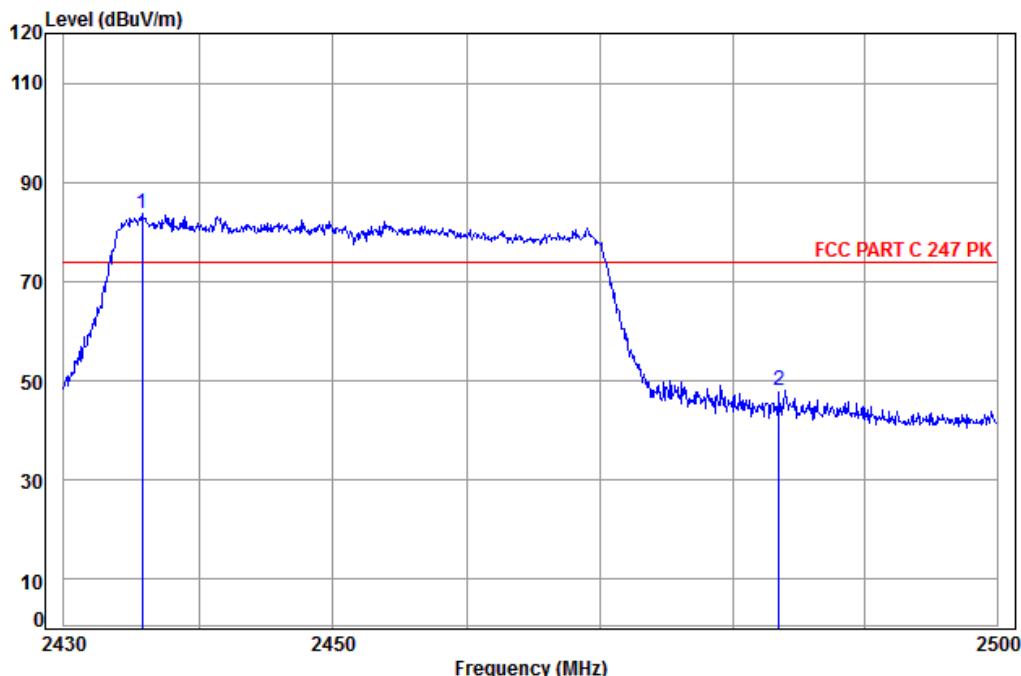
Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 4402CR

Mode: : 2422 N40 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	40.14	38.93	54.00	-15.07
2 pp	2404.87	4.92	32.41	38.46	83.44	82.31	54.00	28.31

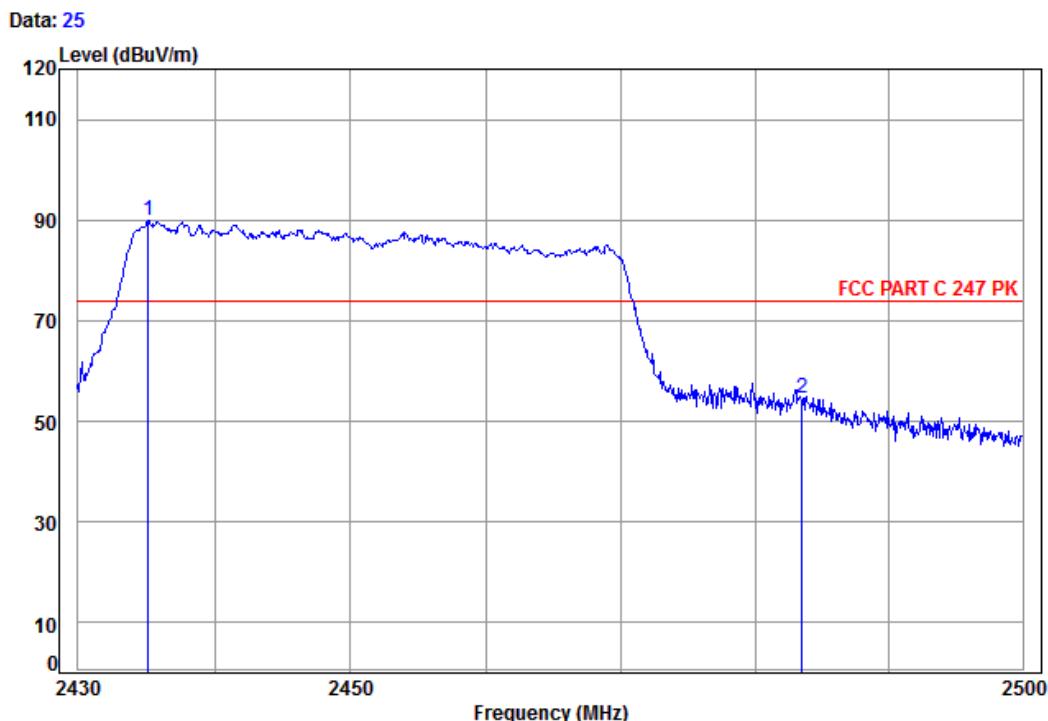
Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 27


Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 4402CR
 Mode: : 2452 N40 Band edge

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2435.80	4.96	32.42	38.46	84.65	83.57	74.00	9.57
2	2483.50	5.03	32.44	38.47	49.06	48.06	74.00	-25.94

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

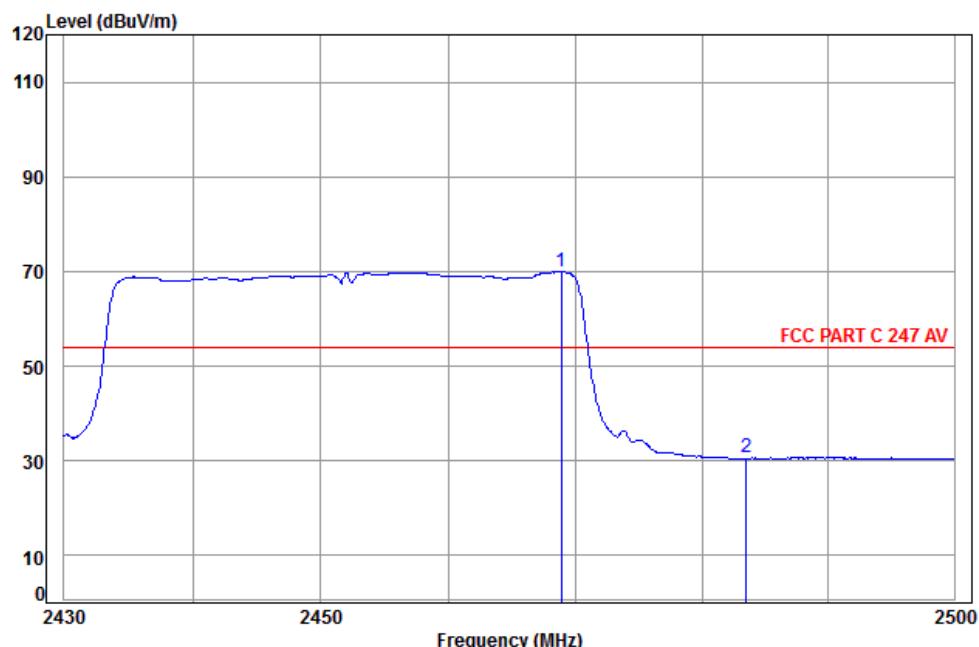
Job No: : 4402CR

Mode: : 2452 N40 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
1 pp	2435.11	4.96	32.42	38.46	91.10	90.02	74.00	16.02
2	2483.50	5.03	32.44	38.47	55.53	54.53	74.00	-19.47

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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Data: 28



Site : chamber

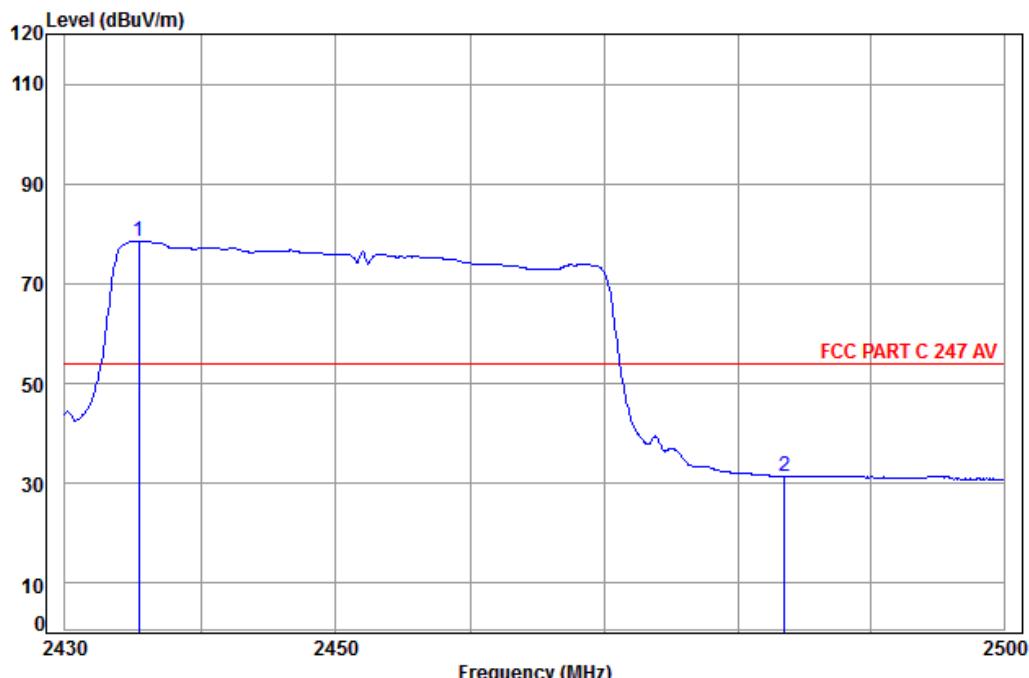
Condition: FCC PART C 247 AV 3m Vertical

Job No: 4402CR

Mode: 2452 N40 Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2468.89	5.01	32.43	38.46	70.93	69.91	54.00	15.91
2	2483.50	5.03	32.44	38.47	31.59	30.59	54.00	-23.41

Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 26


Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 4402CR

Mode: : 2452 N40 Band edge

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2435.46	4.96	32.42	38.46	79.63	78.55	54.00	24.55
2	2483.50	5.03	32.44	38.47	32.45	31.45	54.00	-22.55

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

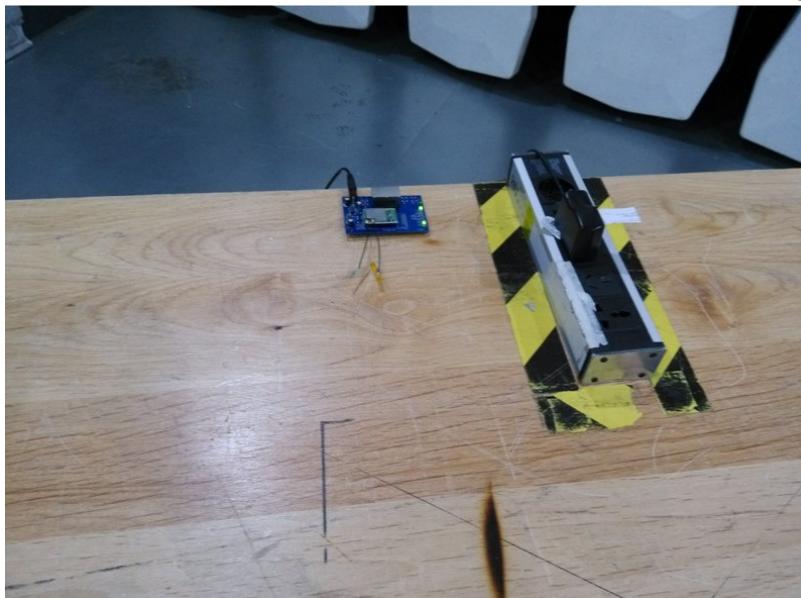
7 Photographs - EUT Test Setup

Test model No.: WiFi module wifi3530

7.1 Radiated Spurious Emission



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7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SDEM1507004402CR.