

Report No.: SZEM150500243001

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FCC REPORT

Application No: SZEM1505002430CR

Applicant: LONGSYS ELECTRONICS (HK) CO., LTD

Manufacturer/Factory: Shenzhen Longsys electronics co Ltd

Product Name: Wifi Module Model No.(EUT): WK1221

FCC ID: 2ADPDWK1221

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

Date of Receipt: 2015-05-08

Date of Test: 2015-05-14 to 2015-05-27

Date of Issue: 2015-06-09

Test Result: PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

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

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		2015-06-09		Original			

Authorized for issue by:		
Tested By	Chros Thong	2015-05-27
	(Chris Zhong) /Project Engineer	Date
Prepared By	Vivi Zhou	2015-06-09
	(Vivi Zhou) /Clerk	Date
Checked By	Owen 2hon	2015-06-09
	(Owen Zhou) /Reviewer	Date

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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)	KDB558074 D01 v03r02	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r02	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r02	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	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:	LONGSYS ELECTRONICS (HK) CO., LTD
Address of Applicant:	10/F china aerospace ctr 143 hoi bun rd kwun tong kln hong kong
Manufacturer:	Shenzhen Longsys electronics co Ltd
Address of Manufacturer:	8/F.1 Building, Financial Base,No.8,kefa Road, High-Tech Park, Shenzhen, China
Factory:	Shenzhen Longsys electronics co Ltd
Address of Factory:	8/F.1 Building, Financial Base,No.8,kefa Road, High-Tech Park, Shenzhen, China

5.2 General Description of EUT

_	
Product Name:	Wifi Module
Model No.:	WK1221
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:	Mobile production
Test Power Grade:	B :18dBm, G:14dbm, N :12dbm
Test Software of EUT:	Artgui.exe
Antenna Type:	Integral
Antenna Gain:	3dBi
Power Supply:	DC 3.3V Powered by USB port

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Operation Frequency each of channel(802.11b/g/n HT20)												
Channel	Fr	equency	Channe	l Frequency	Channel	Fre	quency	Chan	nel	Frequency		
1	24	412MHz	4	2427MHz	7	244	42MHz	10)	2457MHz		
2	24	417MHz	5	2432MHz	8	244	47MHz	11		2462MHz		
3	24	422MHz	6	2437MHz	9	24	52MHz					
Operation F	requ	ency each	of channe	el(802.11n HT40))							
Channe	Channel Frequency				Frequen	су	Chan	nel		requency		
1		24221	MHz	4	2437MF	łz	7		7			2452MHz
2		2427	MHz	5	2442MF	łz						
3		2432	MHz	6	2447MF	···lz						

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):

1 01 00211 111 (111 10)1	
Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	26.0 °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.
RF test board	Supply by SGS NONE	
PC	Lenovo	B490

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.

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SGS

SGS-CSTC Standards Technical Services Ltd.

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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-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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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	Shanhai 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	Shanhai 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

Note: The calibration interval is one year, all the instruments are valid.



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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)

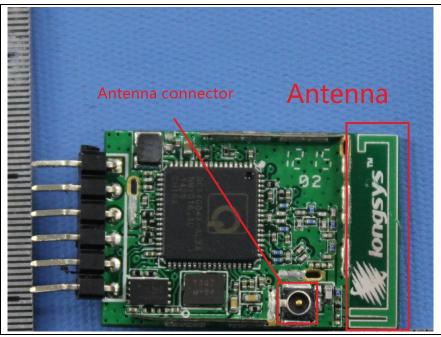
15.203 requirement:

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:



The PCB antenna are integrated on the main PCB and no consideration of replacement. The best case gain of the PCB antenna is 3dBi.(The antenna connector is design for test used, not for external antenna)

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6.2 Conducted Emissions

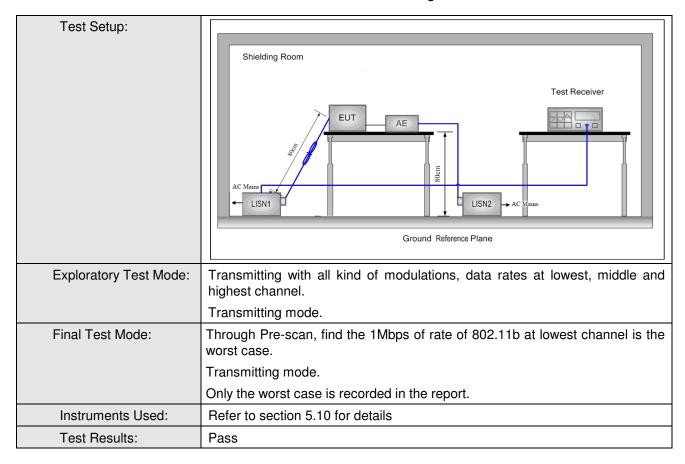
Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2009			
Test Frequency Range:	150kHz to 30MHz			
Limit:	Francisco (MIII-)	Limit (c	lBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithm	n of the frequency.		1
Test Procedure:	 The mains terminal disturbation. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS plane in the same way as the multiple socket outlet strip single LISN provided the reason of the tabletop EUT was placed on the horizontal ground reference plane. An elementary placed on the horizontal ground reference plane of the EUT shall be 0.4 meteorical ground reference preference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated education. In order to find the maximule equipment and all of the in ANSI C63.10: 2009 on contract. 	o AC power source throetwork) which provides oles of all other units of SN 2, which was bonded the LISN 1 for the unit was used to connect mating of the LISN was noted upon a non-metallice and for floor-standing arround reference plane, the a vertical ground reference blane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The forthe LISN 1 and the quipment was at least 0 the country of the country of the country of the country of the LISN 1 and the quipment was at least 0 the country of the countr	bugh a LISN 1 (Line a 50Ω/50μH + 5Ω line the EUT were do not the ground reference of the exceeded. The exceeded of the exceeded. The exceeded of the exceeded	near ence to a ne was ar ne ne

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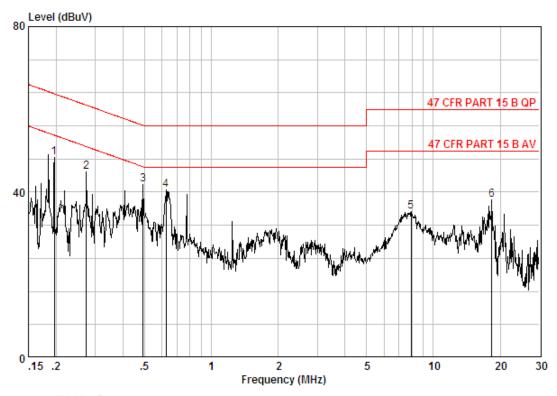
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Measurement Data

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 PART 15 B AV CE LINE

Job No. : 2430CR

		Freq		LISN Factor					Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.19654	0.02	9.83	38.49	48.34	53.76	-5.41	Peak
2		0.27297	0.01	9.84	35.14	44.99	51.03	-6.04	Peak
3	@	0.49150	0.01	9.86	31.95	41.82	46.14	-4.33	Peak
4	@	0.62383	0.02	9.87	30.65	40.54	46.00	-5.46	Peak
5		7.935	0.01	10.15	25.10	35.26	50.00	-14.74	Peak
6		18.328	0.02	10.26	27.77	38.04	50.00	-11.96	Peak

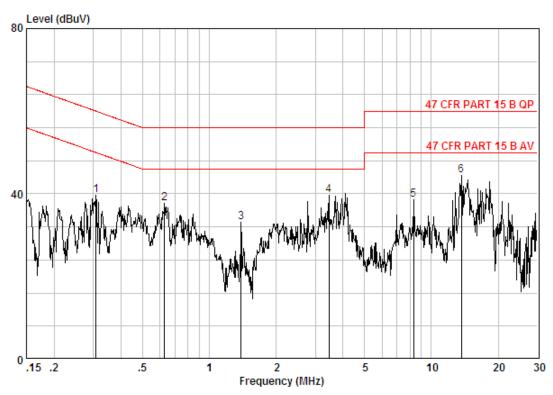
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B AV CE NEUTRAL

Job No. : 2430CR

	Freq		LISN Factor					Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.30834	0.01	9.86	29.90	39.77	50.02	-10.24	Peak
2	0.62715	0.02	9.93	27.69	37.64	46.00	-8.36	Peak
3	1.388	0.02	10.07	22.95	33.04	46.00	-12.96	Peak
4	3.454	0.02	10.13	29.56	39.70	46.00	-6.30	Peak
5	8.323	0.01	10.13	28.49	38.63	50.00	-11.37	Peak
6 @	13.623	0.01	10.20	34.17	44.39	50.00	-5.61	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.



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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	KDB558074 D01 v03r02		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table		
	Ground Reference Plane		
	Remark:		
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
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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Measurement Data

	802.11b mo	de	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	19.45	30.00	Pass
Middle	20.23	30.00	Pass
Highest	20.00	30.00	Pass
	802.11g mo	de	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	22.02	30.00	Pass
Middle	22.92	30.00	Pass
Highest	22.93	30.00	Pass
	802.11n(HT20)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.19	30.00	Pass
Middle	21.01	30.00	Pass
Highest	20.92	30.00	Pass
	802.11n(HT40)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.39	30.00	Pass
Middle	21.63	30.00	Pass
Highest	21.37	30.00	Pass



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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
	002.110	1 001 0114111011	20001







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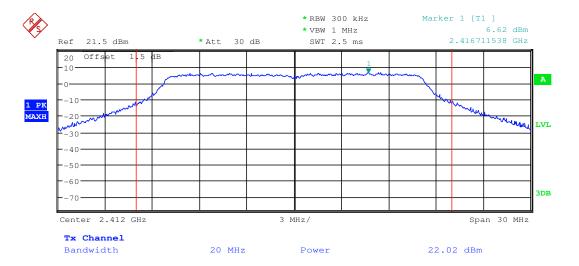
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Test mode: 802.11b Test channel: Highest



est mode:	802.11g	Test channel:	Lowest
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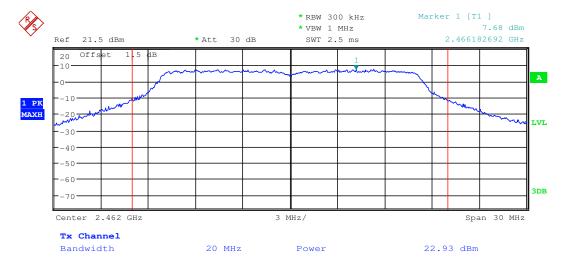
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Test mode: 802.11g Test channel: Middle







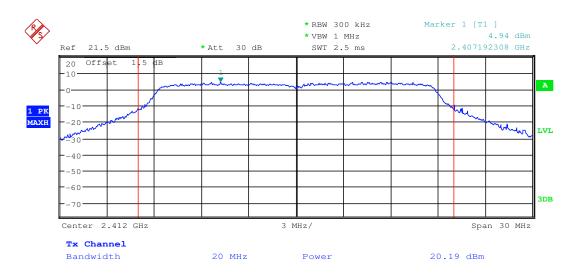
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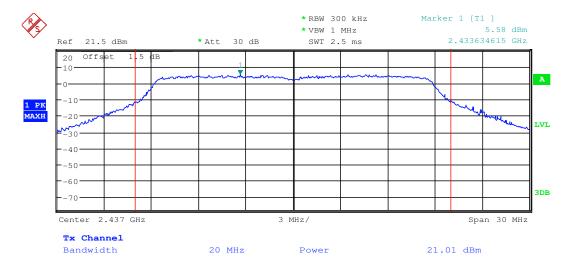
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Test mode: 802.11n(HT20) Test channel: Lowest







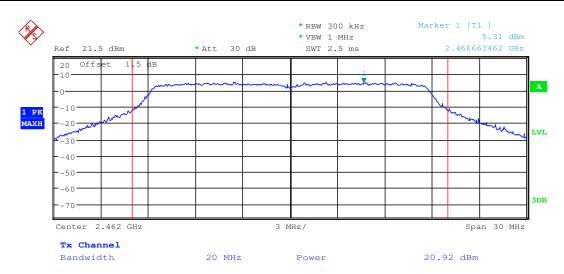
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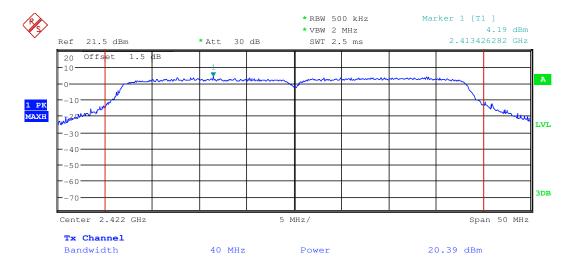
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Test mode: 802.11n(HT20) Test channel: Highest



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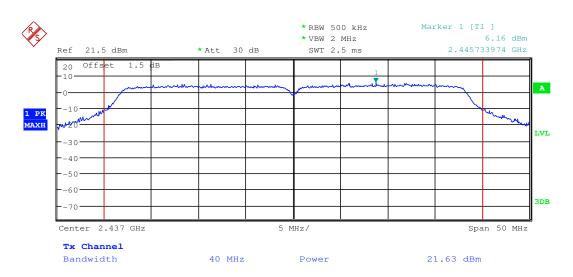
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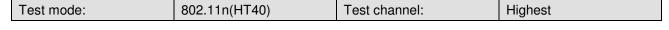


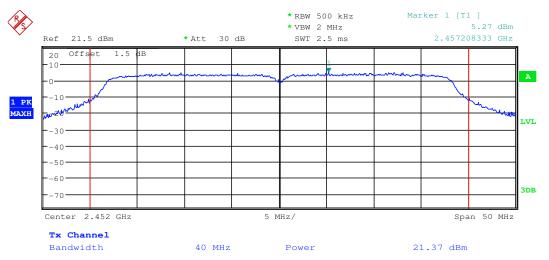
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Test mode: 802.11n(HT40) Test channel: Middle







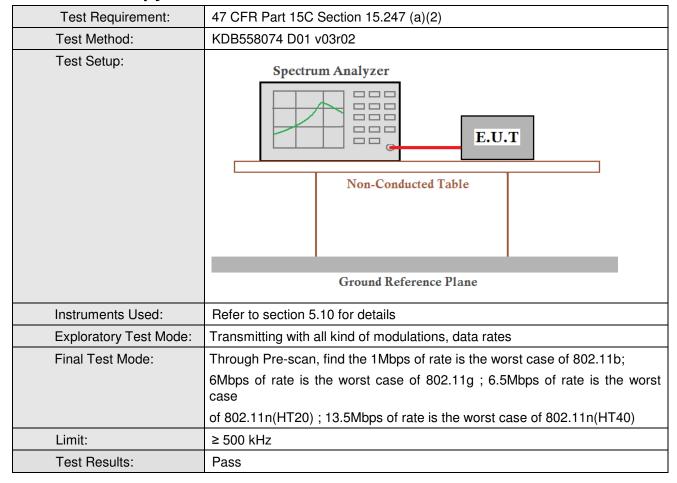
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6.4 6dB Occupy Bandwidth



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Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.192	≥500	Pass
Middle	10.192	≥500	Pass
Highest	10.192	≥500	Pass
	802.11g mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.442	≥500	Pass
Middle	16.442	≥500	Pass
Highest	16.442	≥500	Pass
	802.11n(HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.692	≥500	Pass
Middle	17.692	≥500	Pass
Highest	17.692	≥500	Pass
	802.11n(HT40)mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.298	≥500	Pass
Middle	36.538	≥500	Pass
Highest	36.298	≥500	Pass



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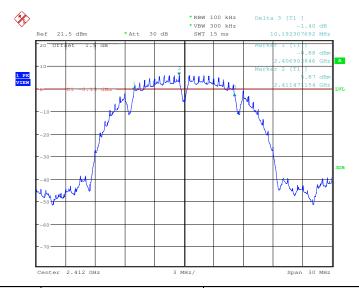


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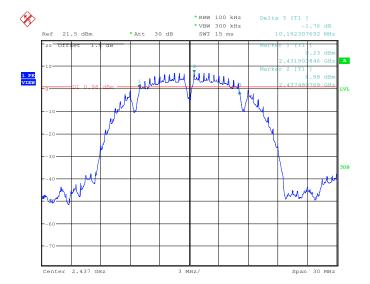
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



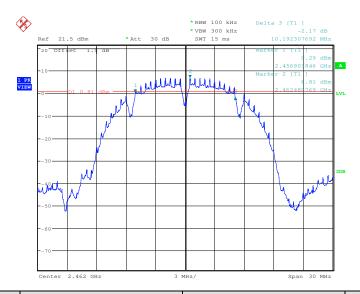
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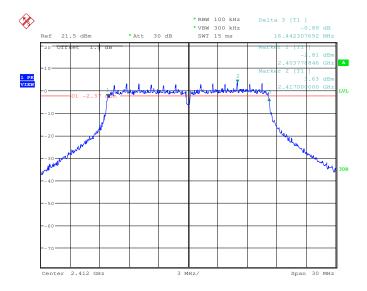
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



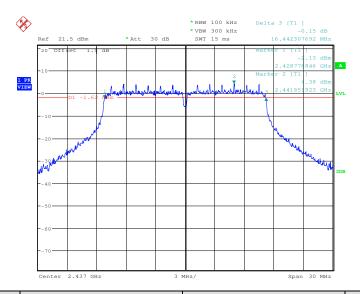
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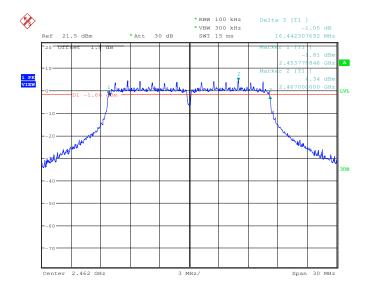
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



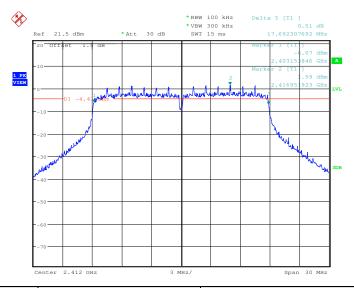
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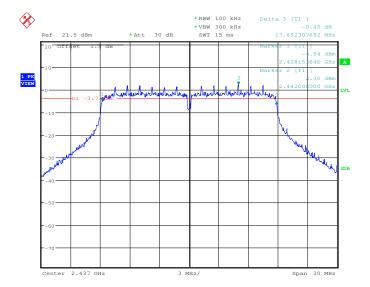
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Test mode: 802.11n(HT20) Test channel: Lowest



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



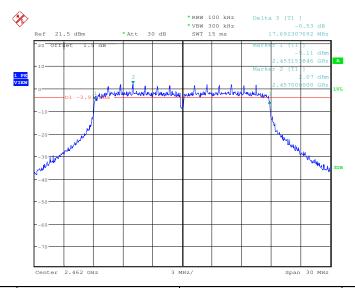
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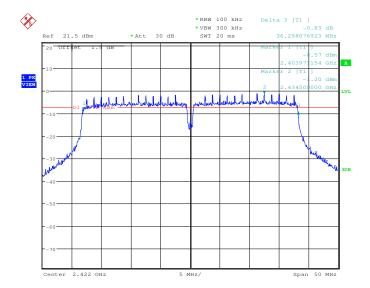
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Test mode: 802.11n(HT20) Test channel: Highest



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



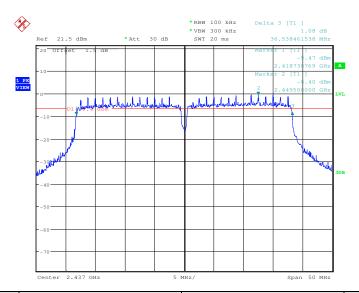
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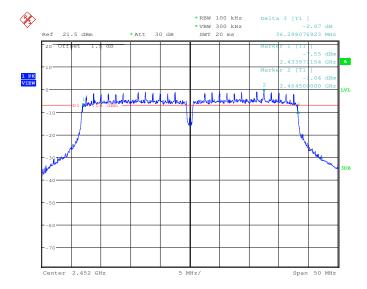
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Test mode: 802.11n(HT40) Test channel: Middle



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



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	KDB558074 D01 v03r02		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
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:	≤8.00dBm/3kHz		
Test Results:	Pass		

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Measurement Data

Mcasarcment Bata			
802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result
Lowest	-8.39	≤8.00	Pass
Middle	-7.69	≤8.00	Pass
Highest	-7.17	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-10.86	≤8.00	Pass
Middle	-8.70	≤8.00	Pass
Highest	-9.31	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-12.39	≤8.00	Pass
Middle	-11.78	≤8.00	Pass
Highest	-11.73	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-16.19	≤8.00	Pass
Middle	-14.67	≤8.00	Pass
Highest	-14.70	≤8.00	Pass

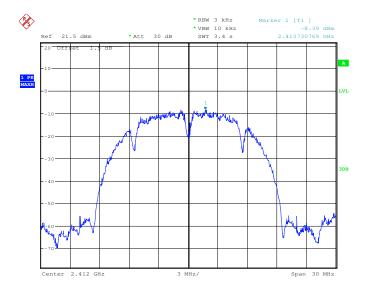


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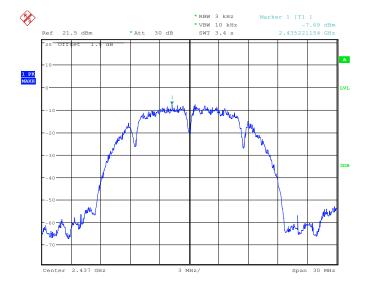
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



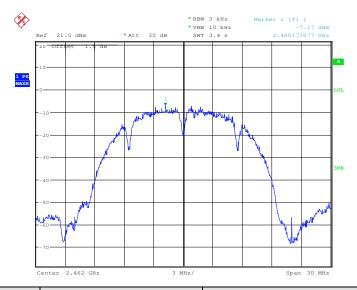
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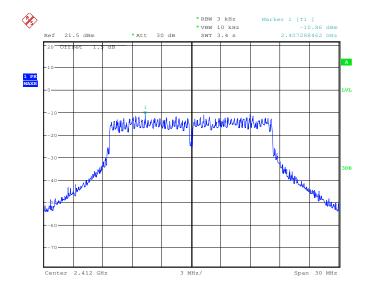
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest





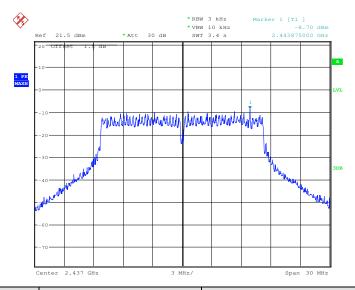
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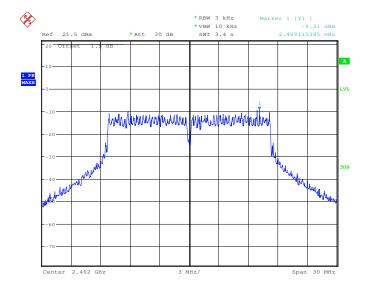
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



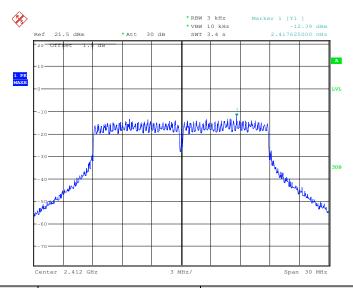
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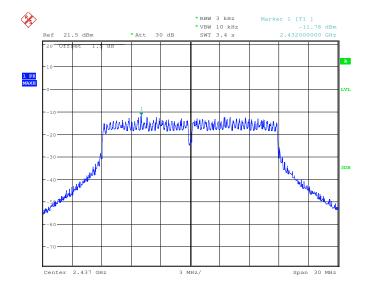
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Test mode: 802.11n(HT20) Test channel: Lowest



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



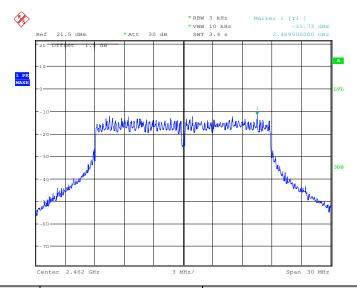
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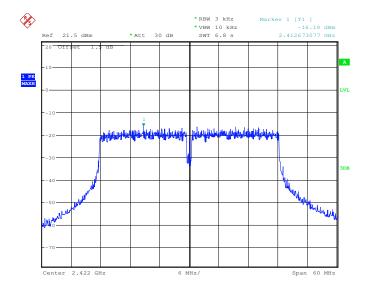
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Test mode: 802.11n(HT20) Test channel: Highest



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



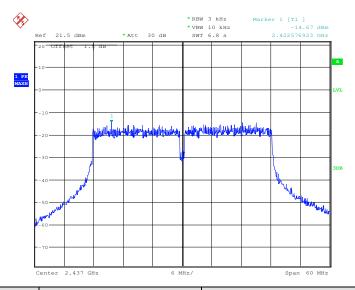
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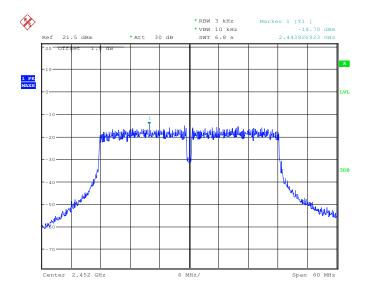
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Test mode: 802.11n(HT40) Test channel: Middle



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:	KDB558074 D01 v03r02
Test Setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
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

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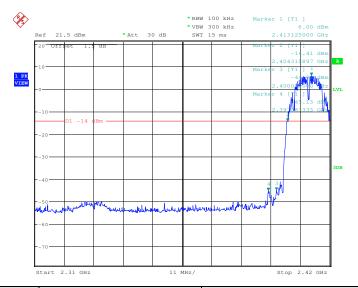


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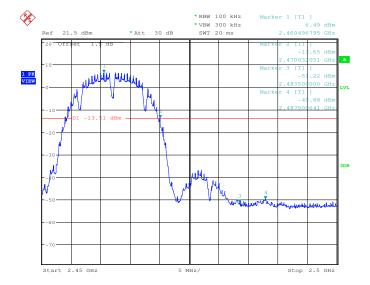
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest



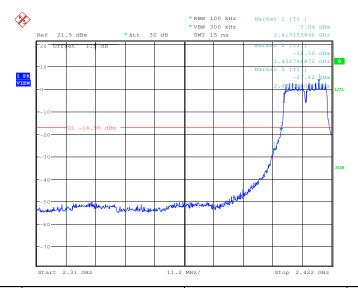
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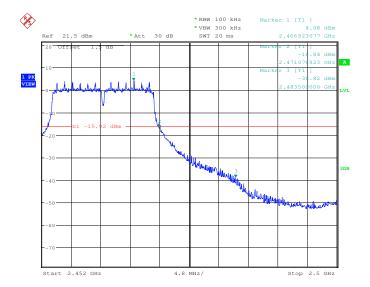
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Test mode: 802.11g Test channel: Lowest







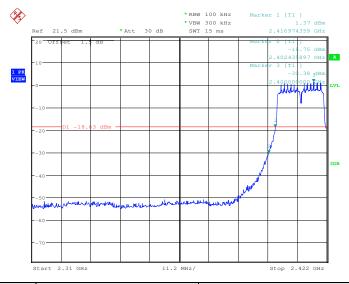
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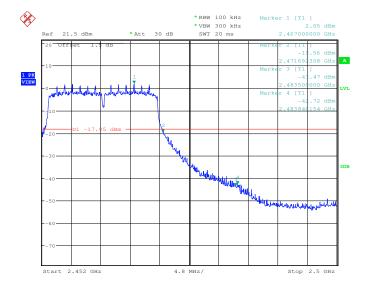
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Test mode: 802.11n(HT20) Test channel: Lowest



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



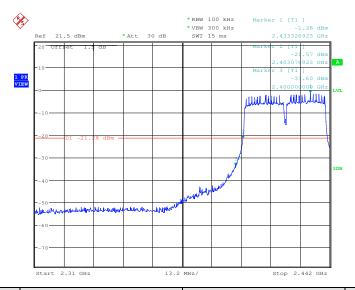
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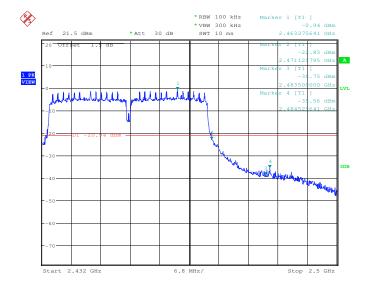
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Test mode: 802.11n(HT40) Test channel: Lowest



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



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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01 v03r02
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
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



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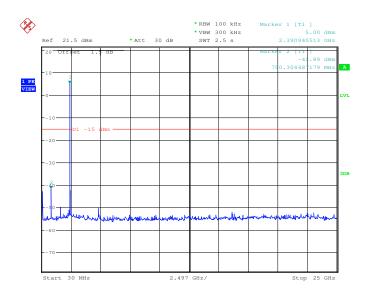


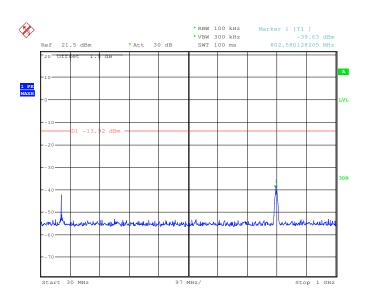
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



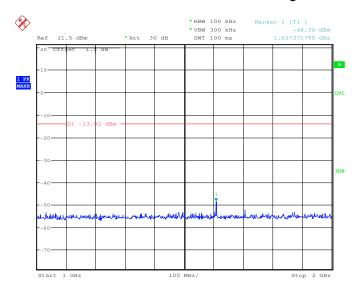


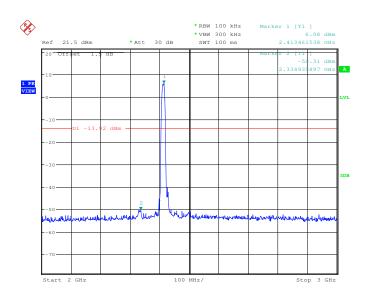
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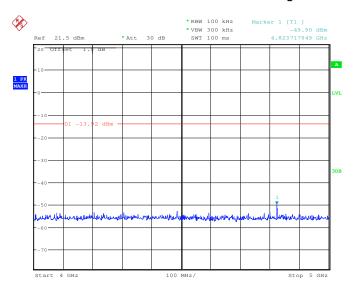


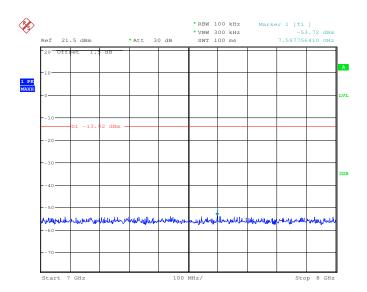
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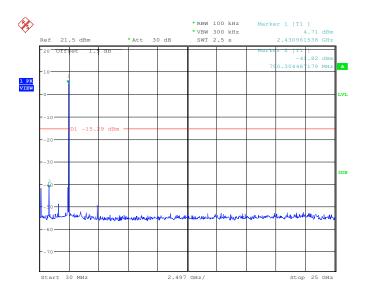
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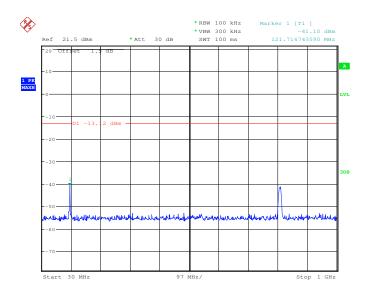


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Test mode: 802.11b Test channel: Middle



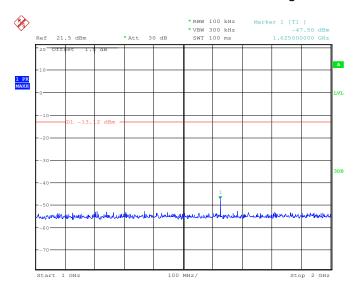


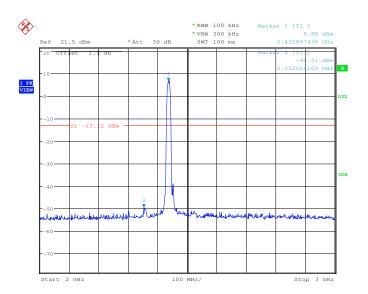
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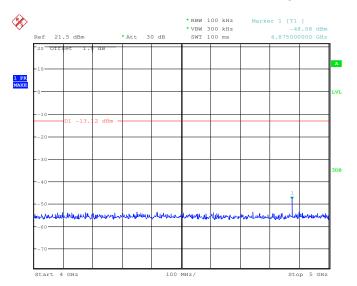


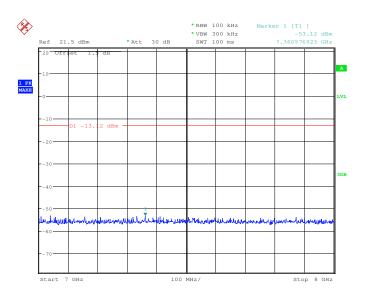
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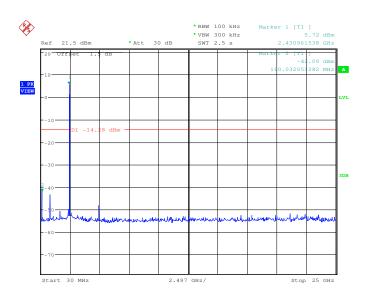
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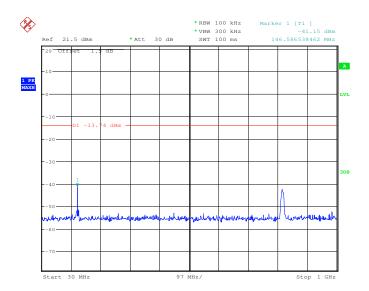


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Test mode: 802.11b Test channel: Highest



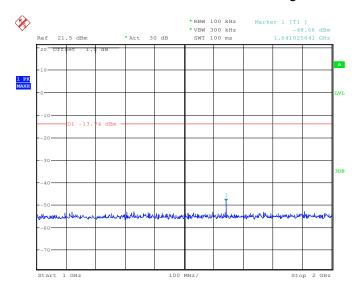


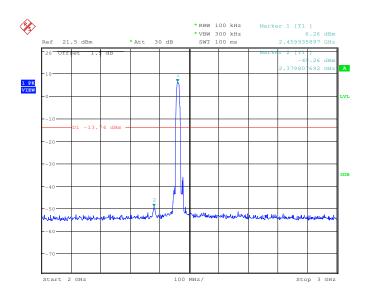
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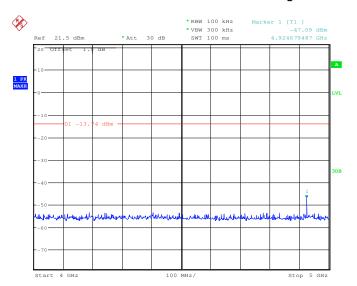


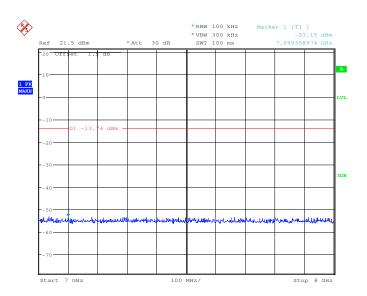
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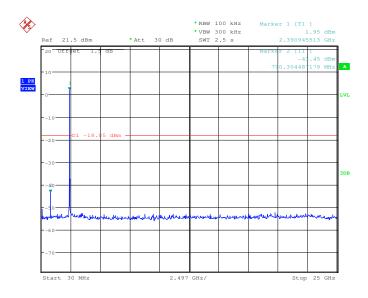
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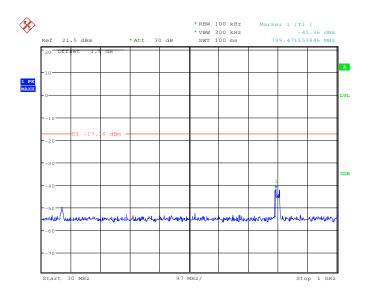


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Test mode: 802.11g Test channel: Lowest





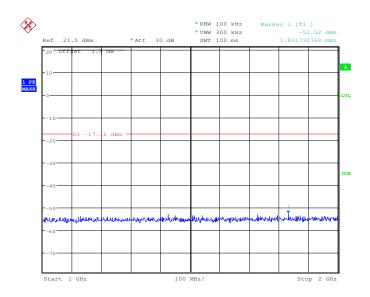


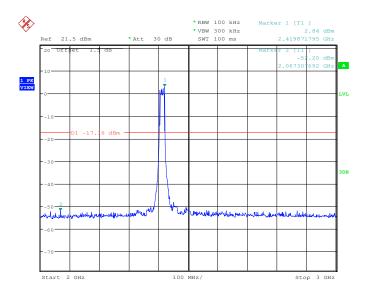
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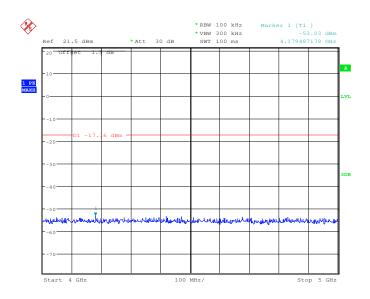


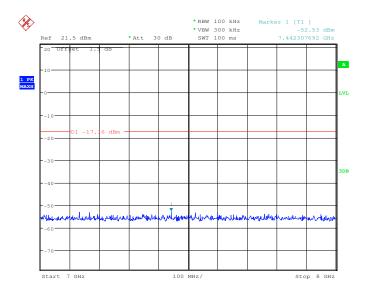
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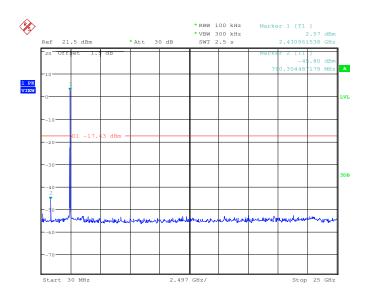
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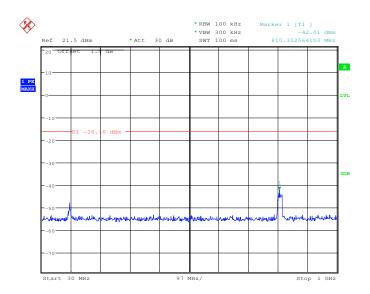


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Test mode: 802.11g Test channel: Middle



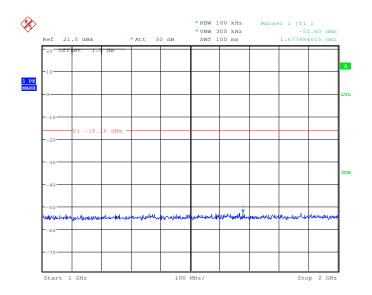


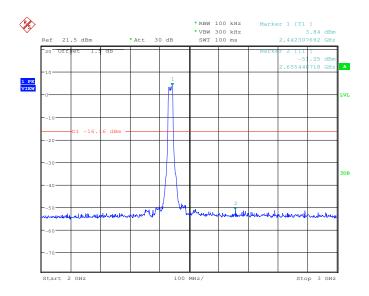
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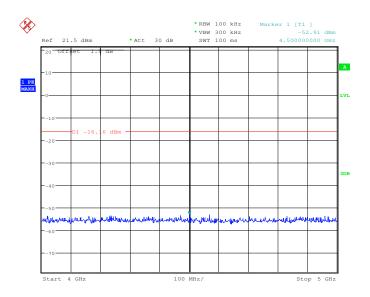


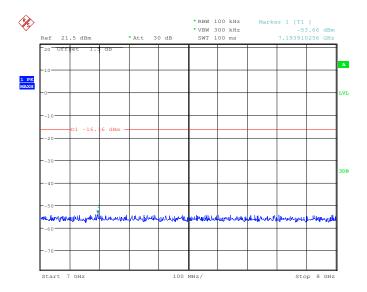
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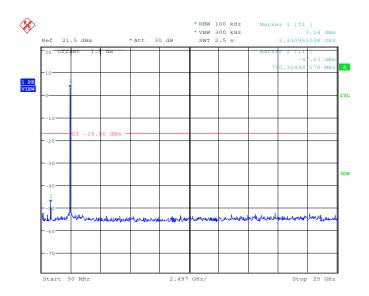
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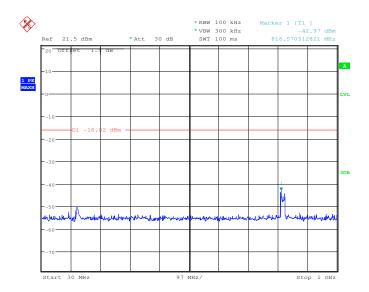


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Test mode: 802.11g Test channel: Highest



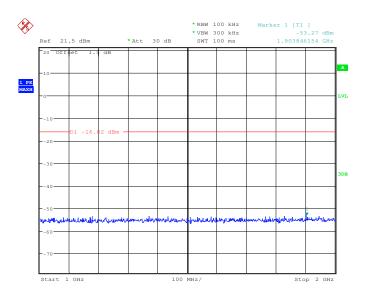


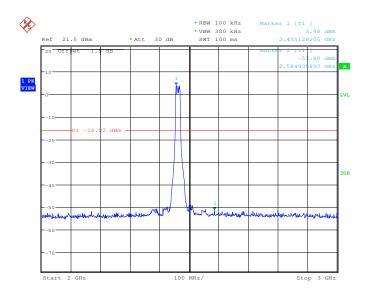
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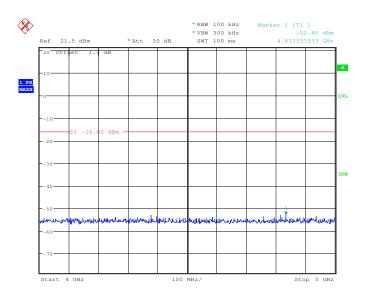


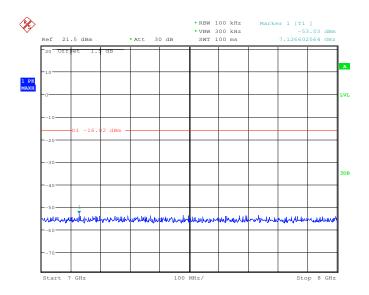
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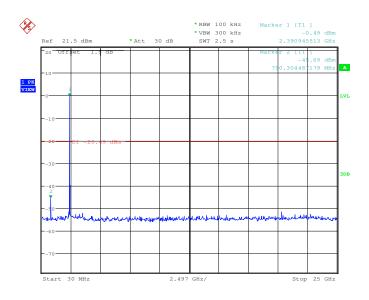
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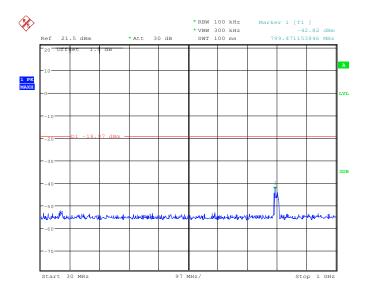


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Test mode: 802.11n(HT20) Test channel: Lowest



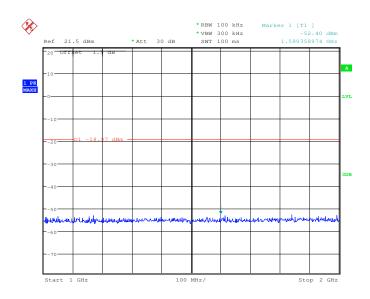


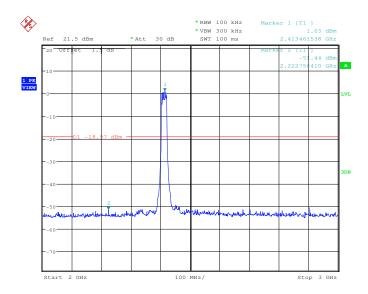
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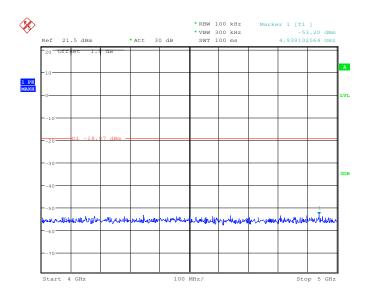


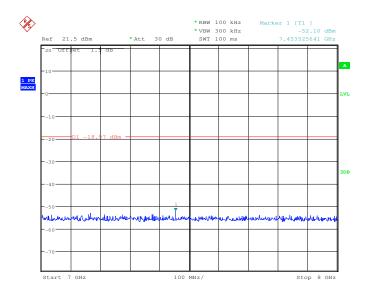
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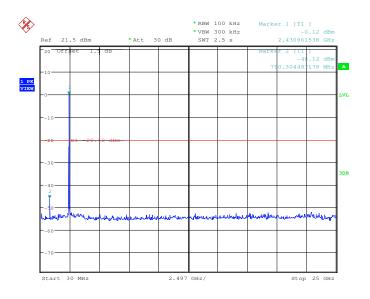
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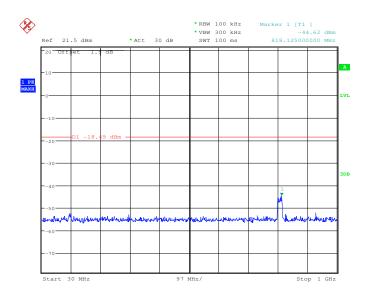


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Test mode: 802.11n(HT20) Test channel: Middle



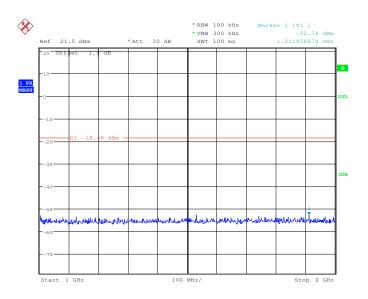


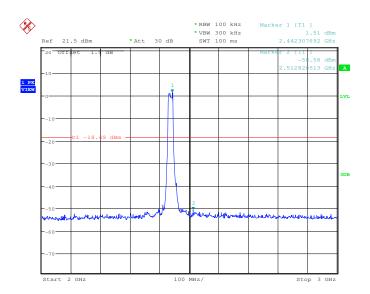
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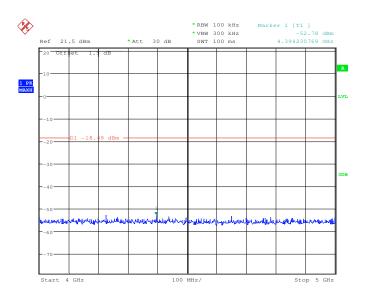


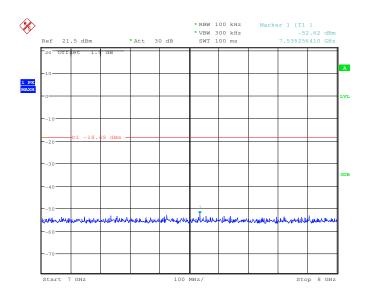
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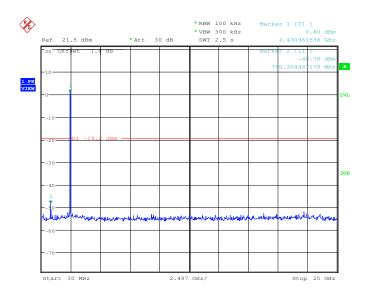
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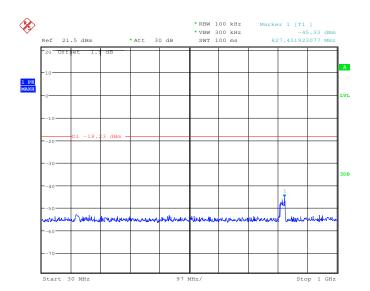


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Test mode: 802.11n(HT20) Test channel: Highest



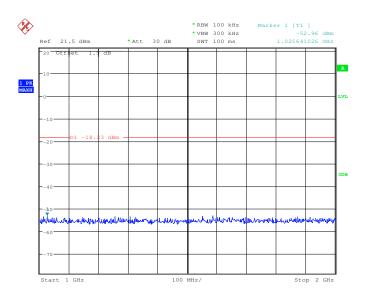


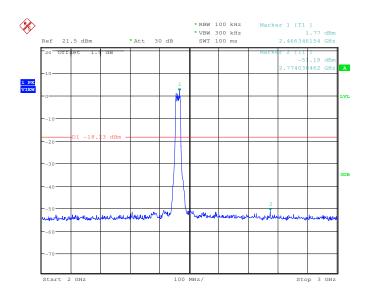
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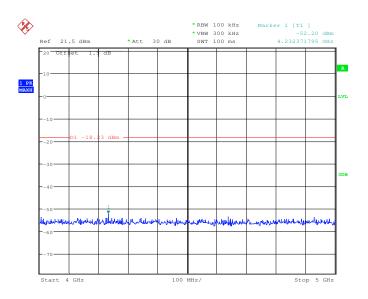


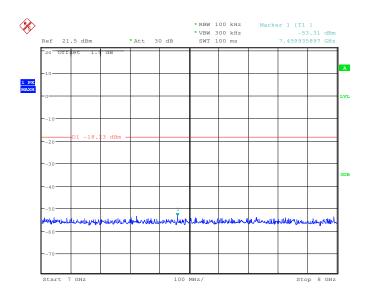
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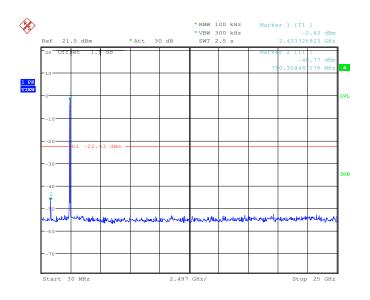
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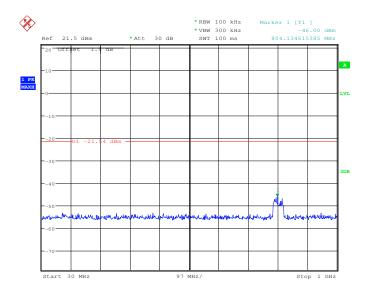


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Test mode: 802.11n(HT40) Test channel: Lowest



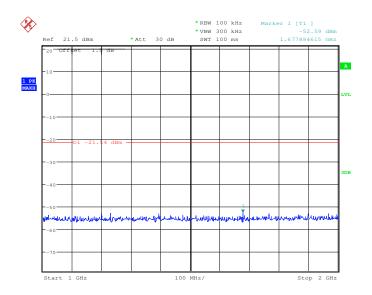


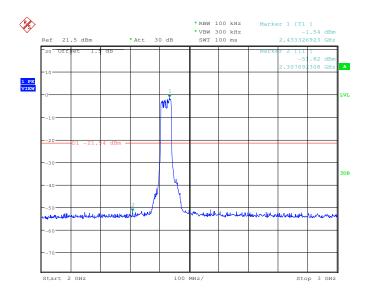
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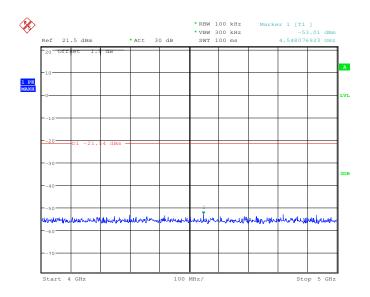


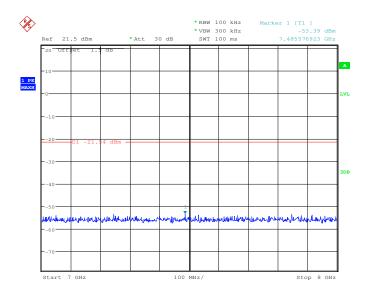
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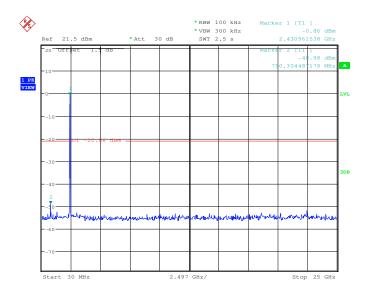
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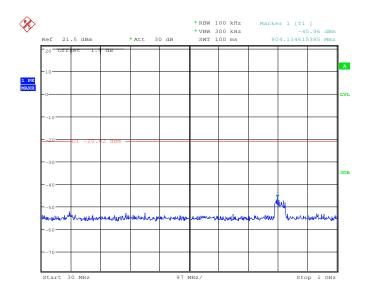


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Test mode: 802.11n(HT40) Test channel: Middle



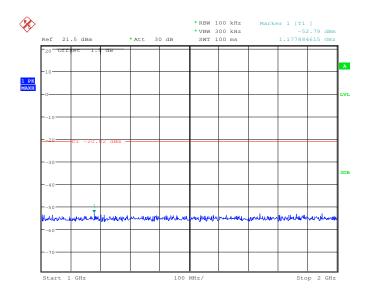


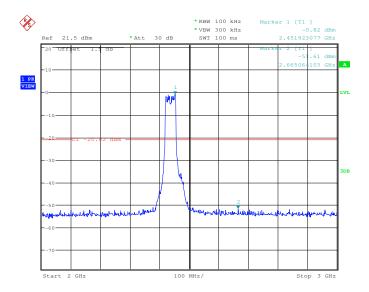
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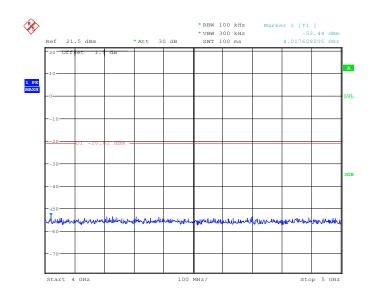


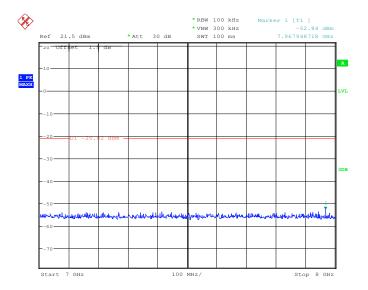
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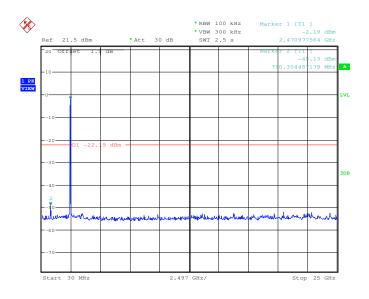
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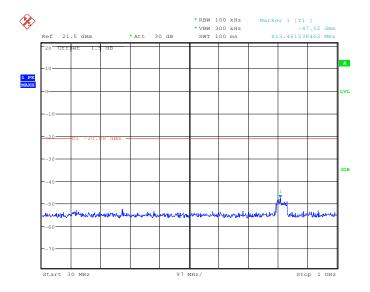


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Test mode: 802.11n(HT40) Test channel: Highest



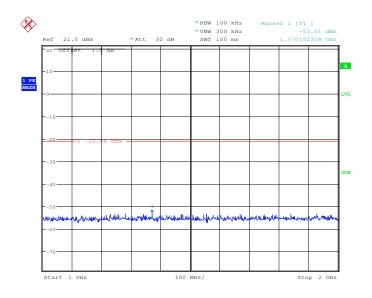


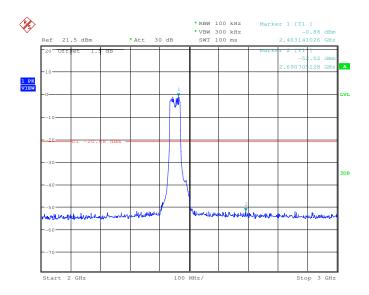
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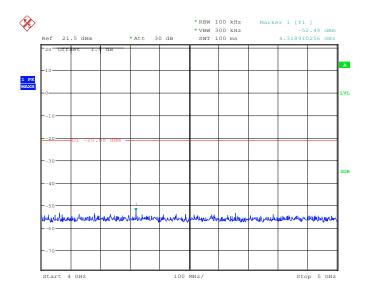


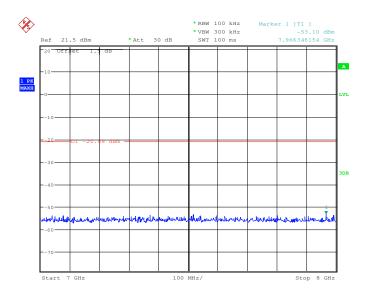
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Remark:

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.

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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.20)5					
Test Method:	ANSI C63.10 2009							
Test Site:	Measurement Distance:	3m (Semi-Anechoi	c 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			
	Above IGHZ	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.							

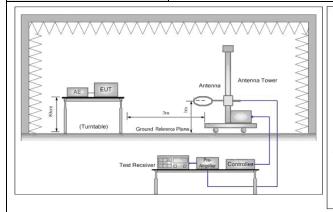
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Test Setup:



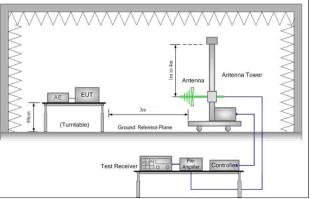


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

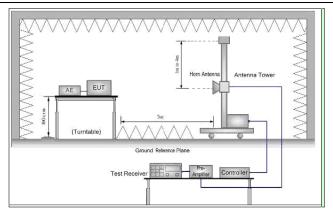


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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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_	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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.					
	i. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
	Transmitting mode, Charge + Transmitting mode.					
Final Test Mode:	Test EUT at Transmitting 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)					
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

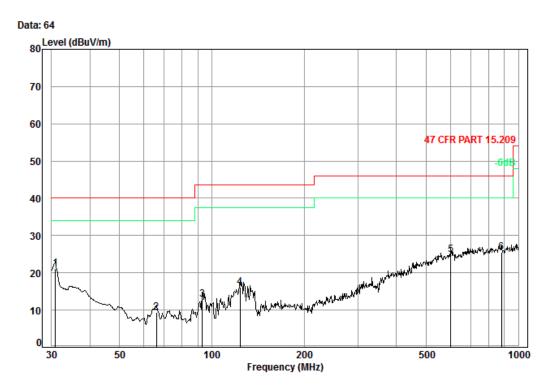


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6.8.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15.209 3m Vertical

Job No. : 2430CR

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.87	0.60	18.22	27.35	29.63	21.10	40.00	-18.90
2	65.94	0.80	7.02	27.25	28.86	9.43	40.00	-30.57
3	93.27	1.13	8.83	27.21	30.01	12.76	43.50	-30.74
4	123.53	1.26	7.83	27.05	34.16	16.20	43.50	-27.30
5	602.12	2.71	19.86	27.54	29.84	24.87	46.00	-21.13
6	880.08	3.53	23.04	26.89	25.84	25.52	46.00	-20.48



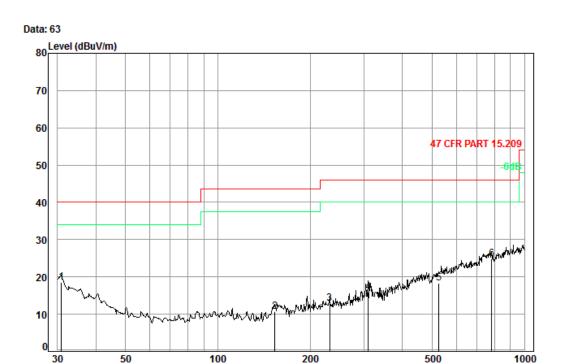
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Test mode:	Transmitting mode	Horizontal
	9	



Frequency (MHz)

Condition: 47 CFR PART 15.209 3m Horizontal

Job No. : 2430CR

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.87	0.60	18.22	27.35	27.00	18.47	40.00	-21.53
2	153.77	1.33	9.23	26.89	27.01	10.68	43.50	-32.82
3	231.42	1.58	11.71	26.59	26.20	12.90	46.00	-33.10
4	309.89	1.93	14.26	26.48	26.17	15.88	46.00	-30.12
5	526.06	2.63	18.52	27.65	24.87	18.37	46.00	-27.63
6	783.07	3.15	22.03	27.31	26.91	24.78	46.00	-21.22

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6.8.2 Transmitter emission above 1GHz

Test mode:	802	.11b	Test ch	annel:	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
3402.126	5.88	32.78	38.7	43.66	43.62	74	-30.38	Vertical
4824.000	5.54	34.72	39.24	45.82	46.84	74	-27.16	Vertical
6017.064	7.50	36.28	39.18	46.19	50.79	74	-23.21	Vertical
7236.000	8.31	35.60	39.06	44.81	49.66	74	-24.34	Vertical
9648.000	9.24	37.45	37.91	41.46	50.24	74	-23.76	Vertical
11399.030	9.98	38.15	38.42	41.48	51.19	74	-22.81	Vertical
3923.367	5.64	33.37	38.92	47.29	47.38	74	-26.62	Horizontal
4824.000	5.54	34.72	39.24	49.17	50.19	74	-23.81	Horizontal
6001.768	7.51	36.30	39.18	47.93	52.56	74	-21.44	Horizontal
7236.000	8.31	35.60	39.06	46.13	50.98	74	-23.02	Horizontal
9648.000	9.24	37.45	37.91	43.92	52.70	74	-21.30	Horizontal
11603.960	10.11	38.30	38.52	43.65	53.54	74	-20.46	Horizontal

Test mode:	802	.11b	Test ch	annel:	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
3728.625	5.76	33.10	38.84	44.76	44.78	74	-29.22	Vertical
4874.000	5.67	34.77	39.26	45.52	46.70	74	-27.30	Vertical
6094.137	7.44	36.20	39.17	45.27	49.74	74	-24.26	Vertical
7311.000	8.40	35.52	39.06	45.32	50.18	74	-23.82	Vertical
9748.000	9.18	37.76	37.85	42.62	51.71	74	-22.29	Vertical
11782.550	10.17	38.48	38.60	43.02	53.07	74	-20.93	Vertical
3903.444	5.66	33.33	38.91	46.75	46.83	74	-27.17	Horizontal
4874.000	5.67	34.77	39.26	47.23	48.41	74	-25.59	Horizontal
6078.644	7.45	36.21	39.18	46.57	51.05	74	-22.95	Horizontal
7311.000	8.40	35.52	39.06	47.12	51.98	74	-22.02	Horizontal
9748.000	9.18	37.76	37.85	43.65	52.74	74	-21.26	Horizontal
11312.310	9.91	38.14	38.38	43.46	53.13	74	-20.87	Horizontal

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Test mode:	802	2.11b	Test ch	annel:	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
3719.146	5.77	33.09	38.84	44.60	44.62	74	-29.38	Vertical
4924.000	5.80	34.82	39.28	43.66	45.00	74	-29.00	Vertical
6063.190	7.46	36.23	39.18	44.91	49.42	74	-24.58	Vertical
7386.000	8.48	35.44	39.05	45.05	49.92	74	-24.08	Vertical
9848.000	9.13	38.06	37.79	42.31	51.71	74	-22.29	Vertical
11399.030	9.98	38.15	38.42	41.48	51.19	74	-22.81	Vertical
3552.582	5.88	32.95	38.76	45.81	45.88	74	-28.12	Horizontal
4924.000	5.85	34.84	39.28	46.95	48.36	74	-25.64	Horizontal
6109.670	7.43	36.18	39.17	47.37	51.81	74	-22.19	Horizontal
7386.000	8.52	35.42	39.05	46.13	51.02	74	-22.98	Horizontal
9848.000	9.11	38.18	37.77	42.40	51.92	74	-22.08	Horizontal
11226.250	9.84	38.12	38.33	43.78	53.41	74	-20.59	Horizontal



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Test mode:	802	2.11g	Test ch	annel:	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
3561.636	5.87	32.96	38.77	46.57	46.63	74	-27.37	Vertical
4824.000	5.54	34.72	39.24	44.02	45.04	74	-28.96	Vertical
6187.929	7.37	36.09	39.16	45.40	49.70	74	-24.30	Vertical
7236.000	8.31	35.60	39.06	45.46	50.31	74	-23.69	Vertical
9648.000	9.24	37.45	37.91	41.42	50.20	74	-23.80	Vertical
11515.680	10.08	38.24	38.47	43.07	52.92	74	-21.08	Vertical
3644.175	5.82	33.03	38.80	43.85	43.90	74	-30.10	Horizontal
4824.000	5.54	34.72	39.24	44.22	45.24	74	-28.76	Horizontal
6032.401	7.49	36.26	39.18	45.05	49.62	74	-24.38	Horizontal
7236.000	8.31	35.60	39.06	45.33	50.18	74	-23.82	Horizontal
9648.000	9.24	37.45	37.91	42.27	51.05	74	-22.95	Horizontal
11312.310	9.91	38.14	38.38	42.26	51.93	74	-22.07	Horizontal

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
3662.775	5.80	33.05	38.81	43.42	43.46	74	-30.54	Vertical
4874.000	5.67	34.77	39.26	44.98	46.16	74	-27.84	Vertical
5971.290	7.45	36.24	39.19	44.38	48.88	74	-25.12	Vertical
7311.000	8.40	35.52	39.06	45.06	49.92	74	-24.08	Vertical
9748.000	9.18	37.76	37.85	41.59	50.68	74	-23.32	Vertical
11486.410	10.06	38.22	38.46	43.53	53.35	74	-20.65	Vertical
3644.175	5.82	33.03	38.80	46.00	46.05	74	-27.95	Horizontal
4874.000	5.67	34.77	39.26	45.93	47.11	74	-26.89	Horizontal
5925.863	7.35	36.16	39.19	47.88	52.20	74	-21.80	Horizontal
7311.000	8.40	35.52	39.06	46.55	51.41	74	-22.59	Horizontal
9748.000	9.18	37.76	37.85	43.66	52.75	74	-21.25	Horizontal
11515.680	10.08	38.24	38.47	43.21	53.06	74	-20.94	Horizontal

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Test mode:	802	.11g	Test ch	annel:	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
3747.656	5.75	33.11	38.85	46.17	46.18	74	-27.82	Vertical
4924.000	5.80	34.82	39.28	46.30	47.64	74	-26.36	Vertical
6094.137	7.44	36.20	39.17	46.86	51.33	74	-22.67	Vertical
7386.000	8.48	35.44	39.05	46.71	51.58	74	-22.42	Vertical
9848.000	9.13	38.06	37.79	42.78	52.18	74	-21.82	Vertical
11283.550	9.89	38.13	38.36	43.89	53.55	74	-20.45	Vertical
3690.853	5.79	33.07	38.82	45.37	45.41	74	-28.59	Horizontal
4924.000	5.80	34.82	39.28	45.36	46.70	74	-27.30	Horizontal
6094.137	7.44	36.20	39.17	45.27	49.74	74	-24.26	Horizontal
7386.000	8.48	35.44	39.05	45.31	50.18	74	-23.82	Horizontal
9848.000	9.13	38.06	37.79	42.31	51.71	74	-22.29	Horizontal
11633.540	10.12	38.33	38.53	43.44	53.36	74	-20.64	Horizontal

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Test mode:		802.	.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak	
Frequency (MHz)	Cab Los (dB	ss	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3472.118	5.9	0	32.86	38.73	43.99	44.02	74	-29.98	Vertical	
4824.000	5.5	4	34.72	39.24	45.02	46.04	74	-27.96	Vertical	
6017.064	7.5	0	36.28	39.18	46.19	50.79	74	-23.21	Vertical	
7236.000	8.3	1	35.60	39.06	45.56	50.41	74	-23.59	Vertical	
9648.000	9.2	4	37.45	37.91	42.93	51.71	74	-22.29	Vertical	
11312.310	9.9	1	38.14	38.38	42.26	51.93	74	-22.07	Vertical	
3588.939	5.8	5	32.99	38.78	47.17	47.23	74	-26.77	Horizontal	
4824.000	5.5	4	34.72	39.24	46.11	47.13	74	-26.87	Horizontal	
6078.644	7.4	5	36.21	39.18	46.57	51.05	74	-22.95	Horizontal	
7236.000	8.3	1	35.60	39.06	46.74	51.59	74	-22.41	Horizontal	
9648.000	9.2	4	37.45	37.91	44.29	53.07	74	-20.93	Horizontal	
11169.240	9.7	9	38.12	38.31	44.14	53.74	74	-20.26	Horizontal	

Test mode:	:	802.	11n(HT20)	Test ch	annel:	Middle	Remark	:	Peak	
Frequency (MHz)	Cab Los (dB	s	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3672.110	5.80	0	33.06	38.82	44.44	44.48	74	-29.52	Vertical	
4874.000	5.6	7	34.77	39.26	44.87	46.05	74	-27.95	Vertical	
6094.137	7.4	4	36.20	39.17	45.27	49.74	74	-24.26	Vertical	
7311.000	8.40	0	35.52	39.06	45.55	50.41	74	-23.59	Vertical	
9748.000	9.18	8	37.76	37.85	41.79	50.88	74	-23.12	Vertical	
11633.540	10.1	2	38.33	38.53	43.44	53.36	74	-20.64	Vertical	
3700.260	5.78	8	33.08	38.83	46.68	46.71	74	-27.29	Horizontal	
4874.000	5.6	7	34.77	39.26	46.40	47.58	74	-26.42	Horizontal	
6063.190	7.46	6	36.23	39.18	47.64	52.15	74	-21.85	Horizontal	
7311.000	8.40	0	35.52	39.06	47.20	52.06	74	-21.94	Horizontal	
9748.000	9.18	8	37.76	37.85	43.61	52.70	74	-21.30	Horizontal	
11428.080	10.0)1	38.17	38.43	42.26	52.01	74	-21.99	Horizontal	

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Test mode:	802	2.11n(HT20)	Test ch	annel:	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
3579.815	5.86	32.98	38.78	45.24	45.30	74	-28.70	Vertical
4924.000	5.80	34.82	39.28	44.25	45.59	74	-28.41	Vertical
6109.670	7.43	36.18	39.17	44.94	49.38	74	-24.62	Vertical
7386.000	8.48	35.44	39.05	45.71	50.58	74	-23.42	Vertical
9848.000	9.13	38.06	37.79	41.28	50.68	74	-23.32	Vertical
11486.410	10.06	38.22	38.46	43.53	53.35	74	-20.65	Vertical
3681.469	5.79	33.06	38.82	45.77	45.80	74	-28.20	Horizontal
4924.000	5.80	34.82	39.28	48.85	50.19	74	-23.81	Horizontal
6140.854	7.41	36.14	39.17	46.80	51.18	74	-22.82	Horizontal
7386.000	8.48	35.44	39.05	47.19	52.06	74	-21.94	Horizontal
9848.000	9.13	38.06	37.79	43.67	53.07	74	-20.93	Horizontal
11428.080	10.01	38.17	38.43	43.26	53.01	74	-20.99	Horizontal

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Test mode:	8	02.11n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak	
Frequency (MHz)	Cable Loss (dB)	_	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3672.110	5.80	33.06	38.82	44.44	44.48	74	-29.52	Vertical	
4844.000	5.60	34.74	39.25	43.78	44.87	74	-29.13	Vertical	
5940.967	7.38	36.19	39.19	46.19	50.57	74	-23.43	Vertical	
7266.000	8.34	35.57	39.06	45.33	50.18	74	-23.82	Vertical	
9688.000	9.22	37.57	37.88	41.77	50.68	74	-23.32	Vertical	
11283.550	9.89	38.13	38.36	42.35	52.01	74	-21.99	Vertical	
3588.939	5.85	32.99	38.78	47.17	47.23	74	-26.77	Horizontal	
4844.000	5.60	34.74	39.25	47.25	48.34	74	-25.66	Horizontal	
6017.064	7.50	36.28	39.18	46.92	51.52	74	-22.48	Horizontal	
7266.000	8.34	35.57	39.06	47.23	52.08	74	-21.92	Horizontal	
9688.000	9.22	37.57	37.88	44.16	53.07	74	-20.93	Horizontal	
11140.850	9.76	38.11	38.29	44.36	53.94	74	-20.06	Horizontal	

Test mode:	802	.11n(HT40)	Test ch	annel:	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	
3786.010	5.73	33.14	38.86	44.07	44.08	74	-29.92	Vertical	
4874.000	5.67	34.77	39.26	46.77	47.95	74	-26.05	Vertical	
6078.644	7.45	36.21	39.18	45.83	50.31	74	-23.69	Vertical	
7311.000	8.40	35.52	39.06	44.93	49.79	74	-24.21	Vertical	
9748.000	9.18	37.76	37.85	42.62	51.71	74	-22.29	Vertical	
11457.210	10.03	38.19	38.45	42.64	52.41	74	-21.59	Vertical	
3672.110	5.80	33.06	38.82	45.65	45.69	74	-28.31	Horizontal	
4874.000	5.67	34.77	39.26	46.61	47.79	74	-26.21	Horizontal	
5940.967	7.38	36.19	39.19	46.60	50.98	74	-23.02	Horizontal	
7311.000	8.40	35.52	39.06	46.02	50.88	74	-23.12	Horizontal	
9748.000	9.18	37.76	37.85	42.30	51.39	74	-22.61	Horizontal	
11084.270	9.71	38.11	38.26	43.75	53.31	74	-20.69	Horizontal	

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Test mode:	8	02.11n(HT40)	Test ch	annel:	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
3738.129	5.76	33.10	38.84	44.08	44.10	74	-29.90	Vertical
4904.000	5.75	34.81	39.27	44.87	46.16	74	-27.84	Vertical
6140.854	7.41	36.14	39.17	44.80	49.18	74	-24.82	Vertical
7356.000	8.45	35.47	39.05	45.31	50.18	74	-23.82	Vertical
9808.000	9.15	37.94	37.81	41.77	51.05	74	-22.95	Vertical
11457.210	10.03	38.19	38.45	42.64	52.41	74	-21.59	Vertical
3625.669	5.83	33.02	38.80	46.31	46.36	74	-27.64	Horizontal
4904.000	5.75	34.81	39.27	46.65	47.94	74	-26.06	Horizontal
6125.242	7.42	36.16	39.17	46.42	50.83	74	-23.17	Horizontal
7356.000	8.45	35.47	39.05	46.47	51.34	74	-22.66	Horizontal
9808.000	9.15	37.94	37.81	43.47	52.75	74	-21.25	Horizontal
11574.460	10.10	38.28	38.50	43.75	53.63	74	-20.37	Horizontal

Remark:

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

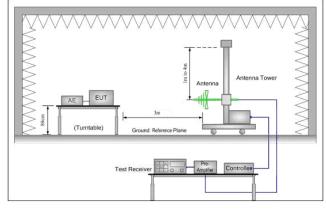


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2009	ANSI C63.10 2009							
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit:	Frequency	equency 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						
	Above IGHZ	74.0	Peak Value						
Test Setup:									



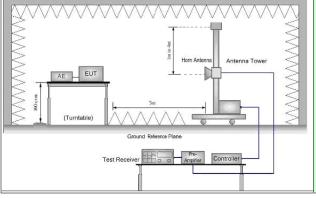


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. 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 channel
	g. Test the EUT in the lowest channel, the Highest channel
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	 Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Test EUT at Transmitting 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

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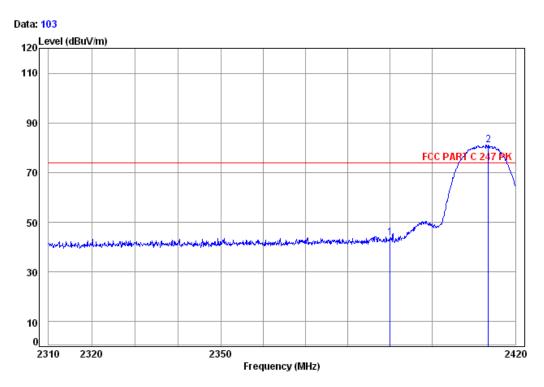


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Test plot as follows:

Lest mode: 802.11 b Lest channel: Lowest Remark: Peak Vertical
--



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2412 B Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Le∨el	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBu∀	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	45.03	43.82	74.00	-30.18
2 pp	2413.48	4.93	32.41	38.46	82.20	81.08	74.00	7.08

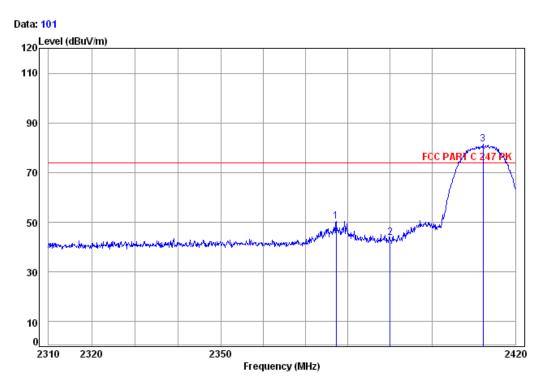
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Test mode:	802.11 b	Test channel:	Lowest	Remark:	Peak	Horizontal
Tool Illoud.	002.110	i cot oriaririor.	LOWCSI	i tomant.	i can	i ionzoniai



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2412 B Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Le∨el	Le∨el	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2377.15	4.88	32.26	38.46	51.73	50.41	74.00	-23.59
2	2390.00	4.90	32.35	38.46	45.04	43.83	74.00	-30.17
3 рр	2412.25	4.93	32.41	38.46	82.39	81.27	74.00	7.27

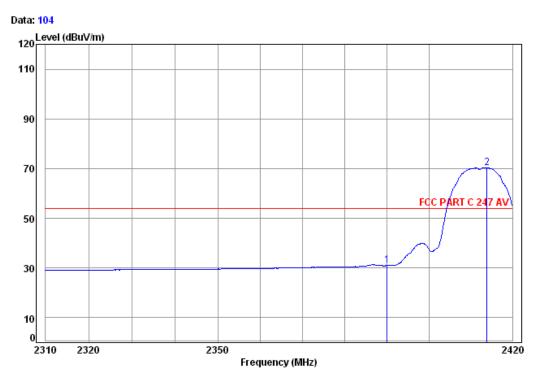
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Test mode: 802.11 b Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2412 B Band edge

	_			Preamp				
	Freq	Loss	Factor	Factor	Le∨el	Le∨el	Line	Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	32.20	30.99	54.00	-23.01
2 pp	2413.93	4.93	32.42	38.46	71.57	70.46	54.00	16.46

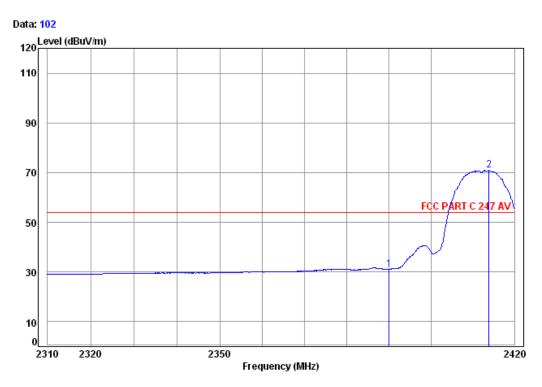
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rest mode. obz. 11 b rest chamber Lowest richard. Average richard	Test mode:	802.11 b	Test channel:	Lowest	Remark:	Average	Horizontal
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Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2412 B Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 2390.00 38.46 32.37 31.16 54.00 -22.84 2 pp 2413.93 4.93 32.42 38.46 71.97 70.86 54.00 16.86

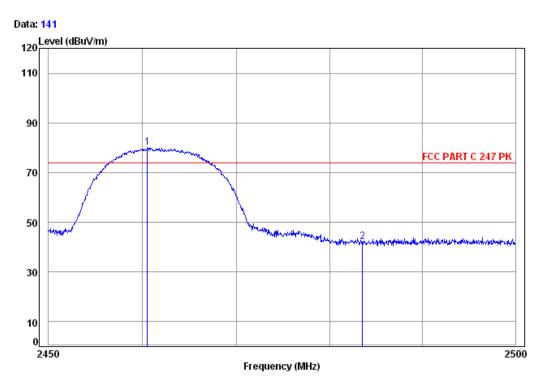
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Test mode:	802.11 b	Test channel:	Highest	Remark:	Peak	Vertical
	00					



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2462 B Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 81.11 80.08 74.00 2460.52 5.00 32.43 38.46 6.08 2483.50 5.03 32.44 38.47 43.22 42.22 74.00 -31.78

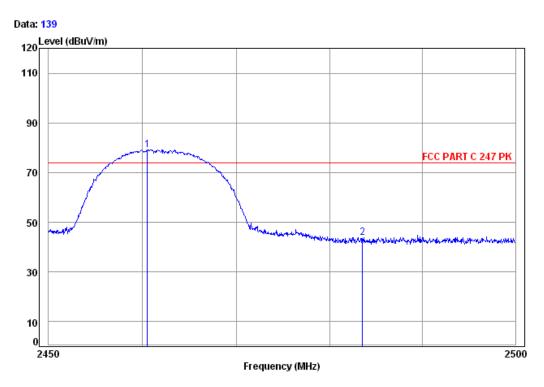
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Test mode:	802.11 b	Test channel:	Highest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2462 B Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dΒ 80.28 79.25 74.00 2460.52 5.00 32.43 38.46 5.25 2483.50 5.03 32.44 38.47 44.76 43.76 74.00 -30.24

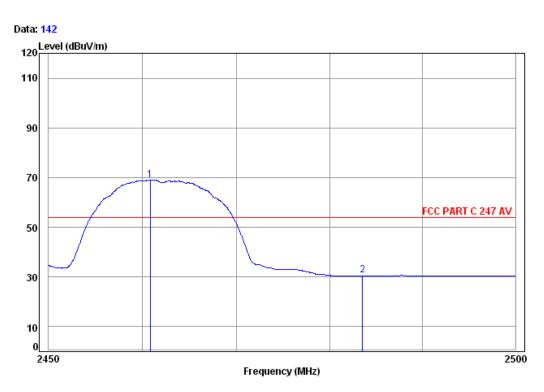
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Ī	Test mode:	802.11 b	Test channel:	Highest	Remark:	Average	Vertical
- 1				1 9			



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2462 B Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ 70.05 69.02 54.00 15.02 2460.81 5.00 32.43 38.46 2483.50 5.03 32.44 38.47 31.76 30.76 54.00 -23.24

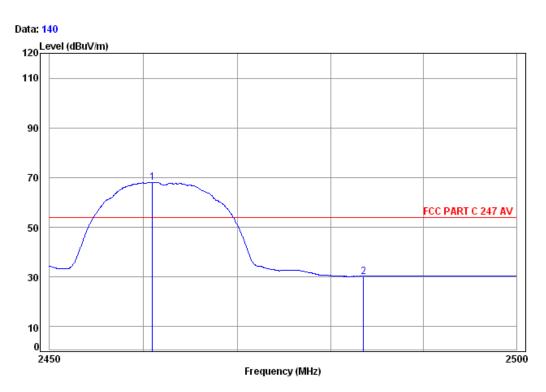
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		Test mode:	802.11 b	Test channel:	Highest	Remark:	Average	Horizontal
--	--	------------	----------	---------------	---------	---------	---------	------------



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2462 B Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ 69.11 68.08 54.00 14.08 2460.91 5.00 32.43 38.46 2483.50 5.03 32.44 38.47 31.24 30.24 54.00 -23.76

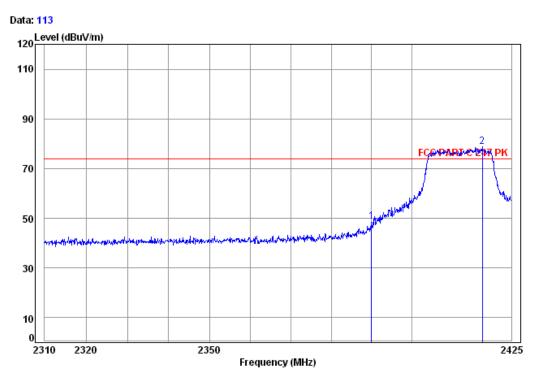
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Test mode:	802.11 g	Test channel:	Lowest	Remark:	Peak	Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2412 G Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 48.64 4.90 49.85 74.00 -25.36 2390.00 32.35 38.46 2 pp 2417.71 4.94 32.42 38.46 79.79 78.69 74.00



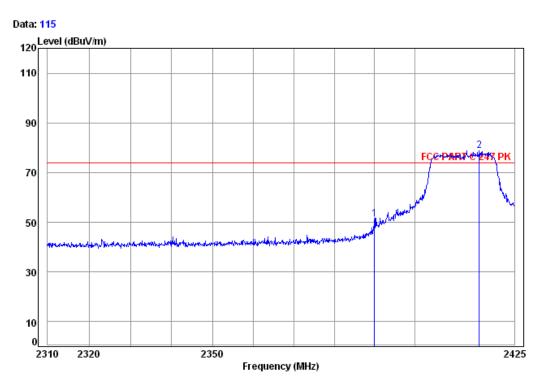
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Test mode:	802.11 g	Test channel:	Lowest	Remark:	Peak	Horizontal
10001110001		1 001 0114111011		1 1011141111		



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2412 G Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 52.42 51.21 74.00 -22.79 2390.00 38.46 2 pp 2416.18 4.94 32.42 38.46 79.96 78.86 74.00

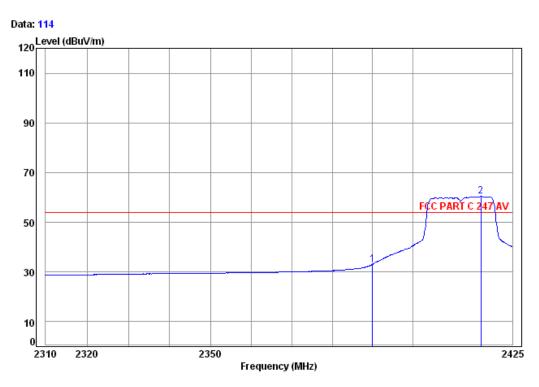
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Test mode:	802.11 g	Test channel:	Lowest	Remark:	Average	Vertical
					, o. a.g.	



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2412 G Band edge

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2417.12							

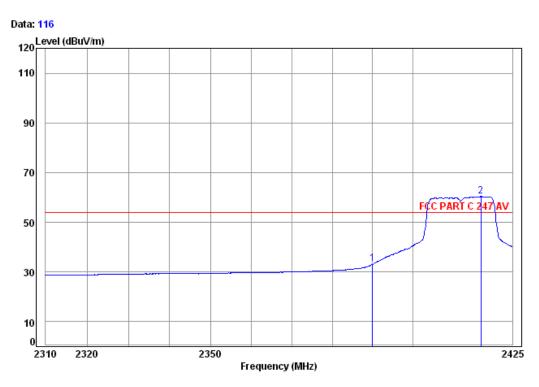
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Test mode:	802.11 g	Test channel:	Lowest	Remark:	Average	Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2412 G Band edge

		Read Level Level					Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
							2390.00 2417.12	1 2 pp

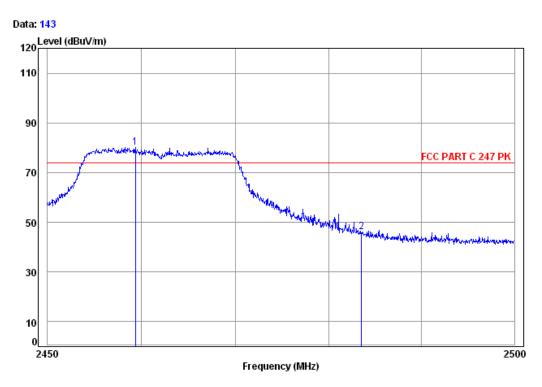
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Test mode:	802.11 g	Test channel:	Highest	Remark:	Peak	Vertical
			gcc	1 1011141111		· o. t.oa.



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2462 G Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 81.19 80.16 74.00 2459.32 5.00 32.43 38.46 6.162483.50 5.03 32.44 38.47 47.15 46.15 74.00 -27.85

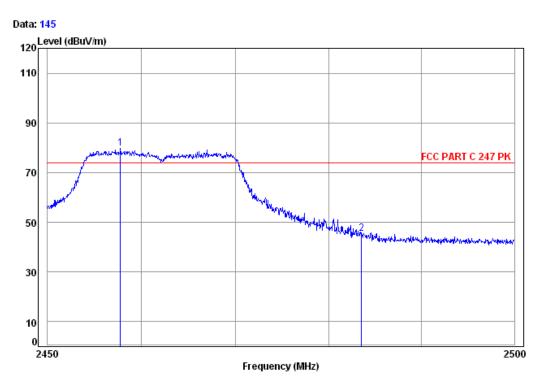
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Test mode:	802.11 g	Test channel:	Highest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2462 G Band edge

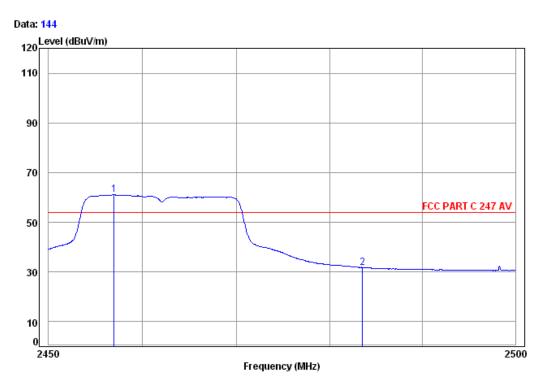
Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 4.99 80.66 79.62 74.00 2457.73 32.43 38.46 5.62 2483.50 5.03 32.44 38.47 46.32 45.32 74.00 -28.68



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Test mode:	802.11 g	Test channel:	Highest	Remark:	Average	Vertical
			1			



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2462 G Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dΒ 4.99 62.11 61.07 54.00 2456.94 32.43 38.46 7.07 2483.50 5.03 32.44 38.47 32.80 31.80 54.00 -22.20

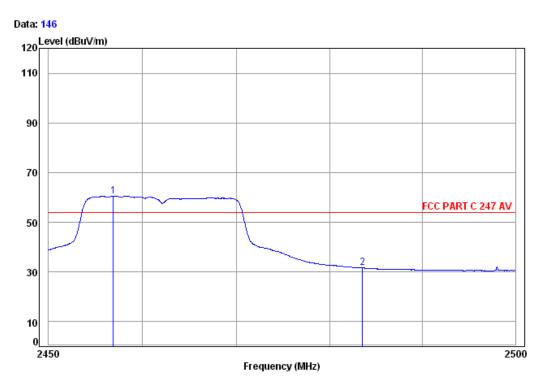
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Test mode:	802.11 g	Test channel:	Highest	Remark:	Average	Horizontal
			3			



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2462 G Band edge

Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dΒ 4.99 54.00 2456.89 32.43 38.46 61.61 60.57 6.57 2483.50 5.03 32.44 38.47 32.58 31.58 54.00 -22.42

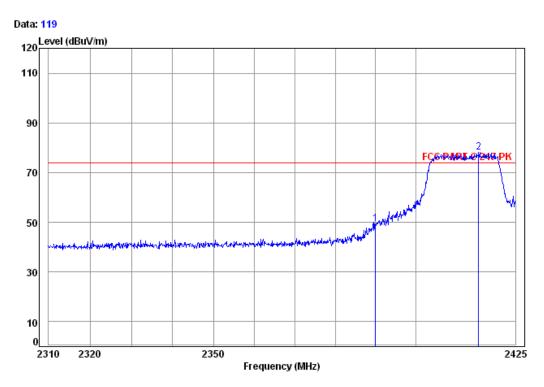
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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
Tool Ilload.	002.1111(11120)	1 Oot onamion.		i tomant.	i oan	Voitioai



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2412 N20 Band edge

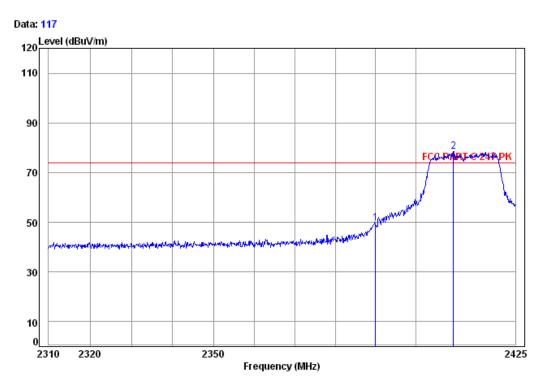
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2415.71							



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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2412 N20 Band edge

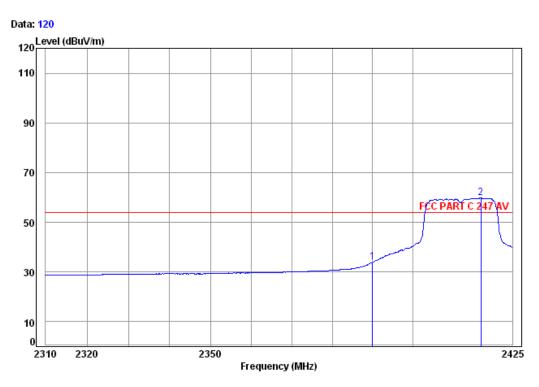
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2409.38							



Report No.: SZEM150500243001

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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
Tost mode.	002.1111(11120)	i cot chariner.	LOWCSL	riciliant.	Average	v Ci ticai



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2412 N20 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 2390.00 38.46 35.13 33.92 54.00 -20.08 2 pp 2417.12 4.94 32.42 38.46 61.00 59.90 54.00

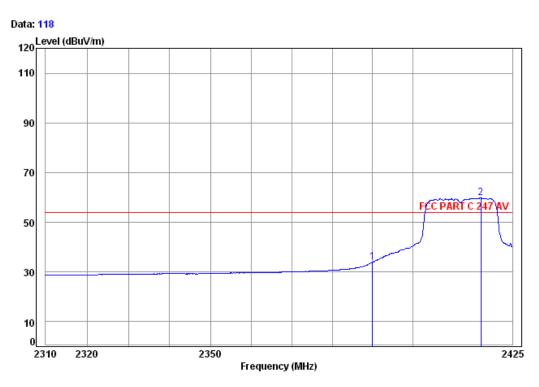




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	Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
- 11							



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2412 N20 Band edge

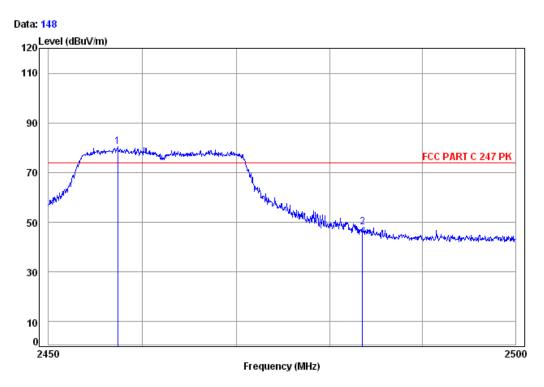
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2417.12							



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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
	00					



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2462 N20 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 4.99 81.38 80.34 74.00 2457.34 32.43 38.46 6.34 2483.50 5.03 32.44 38.47 49.16 48.16 74.00 -25.84

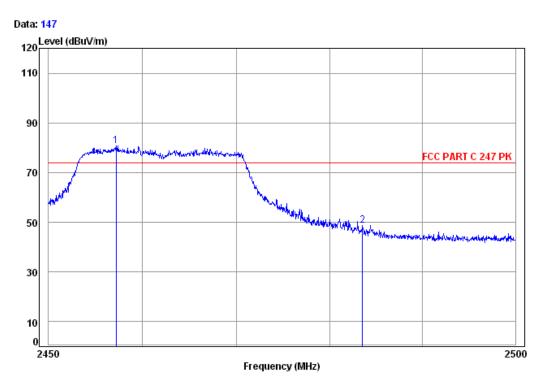
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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2462 N20 Band edge

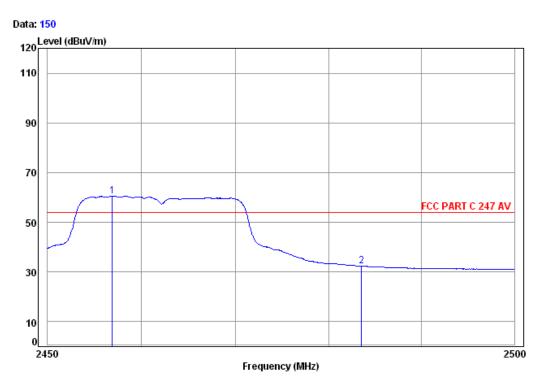
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dΒ dBuV dBuV/m dBuV/m dB/m dΒ dΒ 4.99 81.79 80.75 74.00 2457.19 32.43 38.46 6.75 2483.50 5.03 32.44 38.47 49.68 48.68 74.00 -25.32



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Test mode: 802.11n(HT20) Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2462 N20 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ 4.99 61.63 60.59 54.00 2456.89 32.43 38.46 6.59 2483.50 5.03 32.44 38.47 33.47 32.47 54.00 -21.53

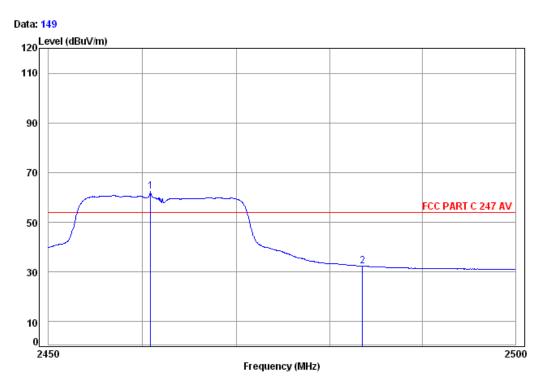
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Test mode: 802.11n(HT20) Test channel: Highest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2462 N20 Band edge

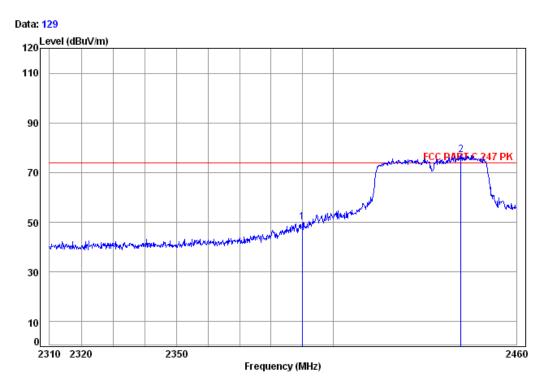
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dΒ dBuV dBuV/m dBuV/m dB/m dΒ 2460.86 5.00 32.43 38.46 63.58 62.55 54.00 8.55 2483.50 5.03 32.44 38.47 33.44 32.44 54.00 -21.56



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Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
Tool Illoud.	002.1111(11140)	i cot oriaririor.	LOWCSI	riomant.	i can	v Ci tioai



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2422 N40 Band edge

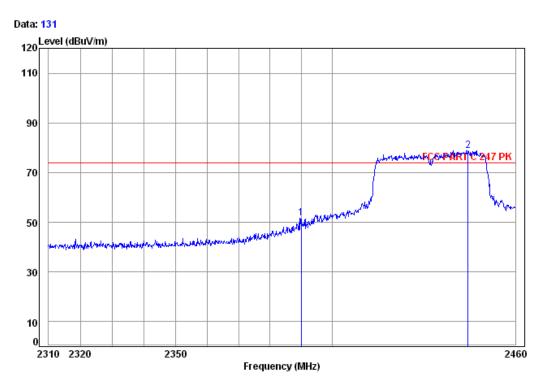
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Le∨el Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 51.30 50.09 74.00 -23.91 4.90 32.35 2390.00 38.46 2 pp 2441.65 4.97 32.43 38.46 78.08 77.02 74.00



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T	est mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2422 N40 Band edge

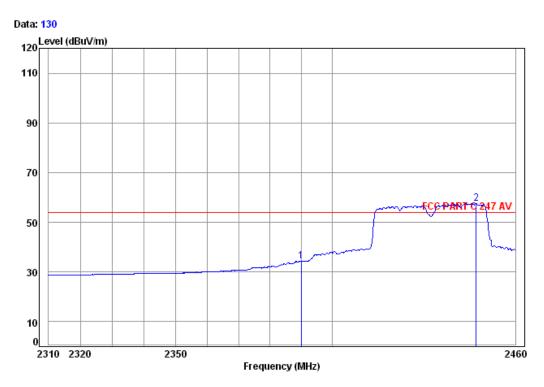
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 52.89 51.68 74.00 -22.32 2390.00 38.46 2 pp 2444.42 4.98 32.43 38.46 80.00 78.95 74.00



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	Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
--	------------	---------------	---------------	--------	---------	---------	----------



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2422 N40 Band edge

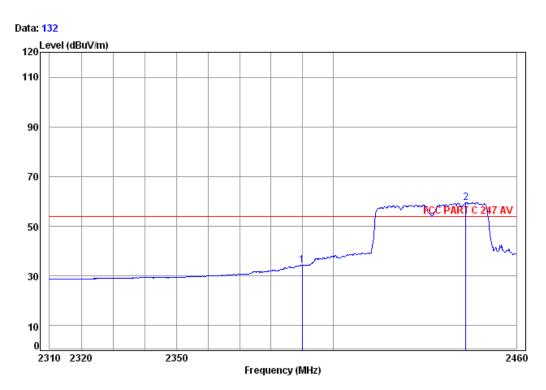
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Le∨el Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 38.46 35.51 34.30 54.00 -19.70 2390.00 2 pp 2447.03 4.98 32.43 38.46 58.61 57.56 54.00



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Test mode: 802.11n(HT40) Test channel: Lowest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2422 N40 Band edge

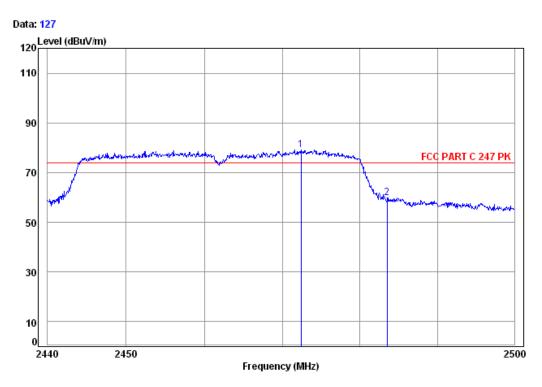
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Le∨el Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 4.90 32.35 35.49 34.28 54.00 -19.72 2390.00 38.46 2 pp 2443.34 4.97 32.43 38.46 60.55 59.49 54.00



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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
	(- /		3			



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2430CR

Mode: : 2452 N40 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dB 5.01 32.44 80.23 79.22 74.00 2472.40 38.46 5.22 2483.50 5.03 32.44 38.47 60.68 59.68 74.00 - 14.32

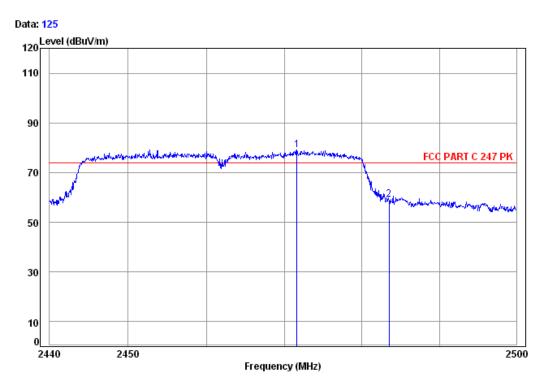




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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2430CR

Mode: : 2452 N40 Band edge

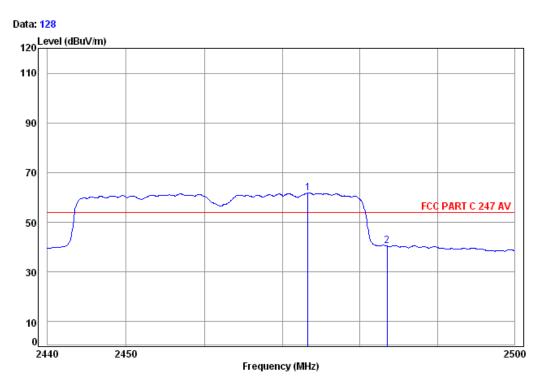
Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dΒ 5.01 32.44 80.01 79.00 74.00 2471.62 38.46 5.00 2483.50 5.03 32.44 38.47 60.09 59.09 74.00 -14.91



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Test mode: 802.11n(HT40) Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2430CR

Mode: : 2452 N40 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Le∨el Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dΒ dΒ 5.01 32.44 62.81 61.80 54.00 2473.30 38.46 7.80 2483.50 5.03 32.44 38.47 41.70 40.70 54.00 -13.30

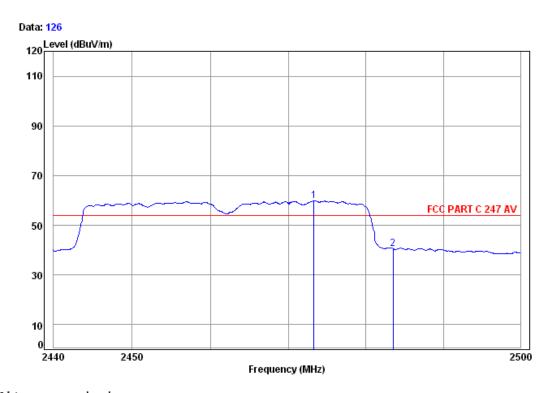
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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
	(- /		9			



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2430CR

Mode: : 2452 N40 Band edge

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2	2473.30 2483.50							

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

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7 Photographs - EUT Test Setup

Test model No.: WK1221

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 SZEM1505002430CR.