

Report No.: SZEM160800743704

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Email: ee.shenzhen@sgs.com Page: 1 of 81

FCC REPORT

Application No:SZEM1608007437CRApplicant:Monument Labs, Inc.Manufacturer:Monument Labs, Inc.

Factory: Qingyuan Gadmei Electronics Technology Co., Ltd.

Product Name: Monument Photo Management Device

Model No.(EUT): 217A12

Add Model No.: 217B12, 217C12, 217D12, 217E12

Trade Mark: Monument FCC ID: 2AJP5-MN217

Standards: 47 CFR Part 15, Subpart C (2015)

Date of Receipt: 2016-09-09

Date of Test: 2016-09-19 to 2016-10-27

Date of Issue: 2016-10-31

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		2016-10-31		Original		

Authorized for issue by:			
Tested By	Peter Gene	2016-10-27	
	(Peter Geng) /Project Engineer	Date	
Checked By	Eric Fu	2016-10-31	
	(Eric Fu) /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 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions			PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Monument Labs, Inc.				
Address of Applicant:	605 N. Michigan Ave., 4th Floor, Chicago, IL 60611, USA				
Manufacturer:	Monument Labs, Inc.				
Address of Manufacturer:	605 N. Michigan Ave., 4th Floor, Chicago, IL 60611, USA				
Factory:	Qingyuan Gadmei Electronics Technology Co., Ltd.				
Address of Factory:	YinZhan Forest ,QingCheng District ,QingYuan City,Guangdong Province, China				

5.2 General Description of EUT

Product Name:	Monument Photo Management Device	
Model No.:	217A12	
Trade Mark:	Monument	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)	
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)	
	IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)	
Antenna Type:	PIFA	
Antenna Gain:	3.7dBi	
EUT Power Supply:	ADAPTER MODEL:A122-0502000UC	
	INPUT:AC 100-240V, 50/60Hz	
	OUTPUT:DC 5V,2000mA	

Remark:

Model No.: 217A12, 217B12, 217C12, 217D12, 217E12

Only the model 217A12 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only different on model number, package and case color. And Ethernet plug is not included for 217E12.



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

Note:

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

For 802.11b/g/n (HT20):

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



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5.3 Test Environment and Mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	55 % RH				
Atmospheric Pressure:	Atmospheric Pressure: 1015 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.	
MITSUBISHI Television	MITSUBISHI	AX025	
HDMI cable	Provided by SGS lab	N/A	

5.5 Test Location

All tests were performed at:

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

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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5.6 Test Facility

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

• CNAS (No. CNAS L2929)

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

· A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC – Registration No.: 556682

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

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy-mm- dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8- 02	EMC0120	2016-09-28	2017-09-28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4- 02	EMC0121	2016-09-28	2017-09-28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2- 02	EMC0122	2016-09-28	2017-09-28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	

	RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy-mm- dd)	
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13	
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09	
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24	
7	Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12	
8	Low Noise Amplifier	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2016-10-09	2017-10-09	
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm- dd)	Cal. Due date (yyyy-mm- dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25

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4 Power Meter Rohde & Schwarz NRVS SEM014-02 2016-10-09 2017-10-09



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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)

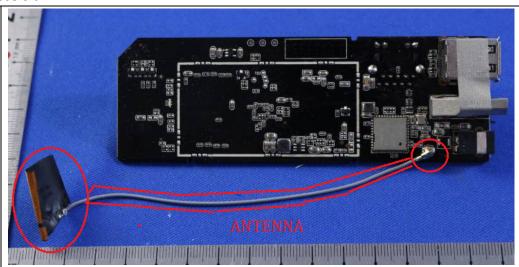
15.203 requirement:

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 antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.7dBi.



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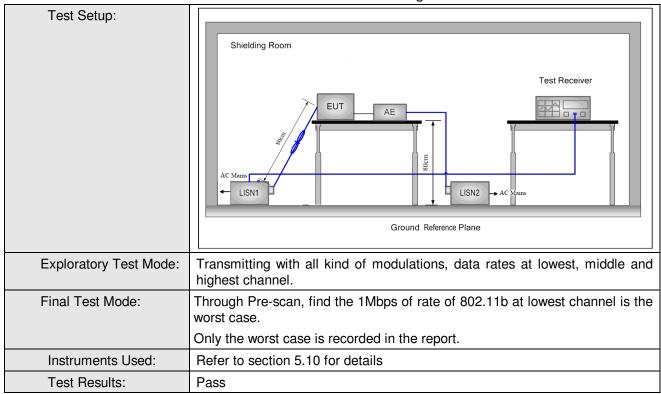
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	e: 150kHz to 30MHz				
Limit:	F (MILL)	Limit (dBuV)			
	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				
Test Procedure:	 The mains terminal disturbly room. The EUT was connected to Impedance Stabilization linear impedance. The power call connected to a second reference plane in the same way as impleded multiple socket outlet strip a single LISN provided the result of the tabletop EUT was placed on the horizontal ground reference plane. was placed on the horizontal ground reference plane was placed on the horizontal ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated extensions. 	pance voltage test was a AC power source throw Network) which provides of all other units of LISN 2, which was the LISN 1 for the unit of was used to connect ating of the LISN was reced upon a non-metallic And for floor-standing from the vertical ground reference plane, the a vertical ground reference of the unit of the vertical ground reference of the unit of the unit of the vertical ground reference of the unit of the un	bugh a LISN 1 (Line des a 50Ω/50μH + 59 f the EUT were bonded to the groun being measured. A multiple power cables that exceeded. It table 0.8m above the granagement, the EU ference plane. The rear and reference plane. The ne horizontal ground from the boundary of the explane for LISNs this distance was EUT. All other units of		
	5) In order to find the maximum equipment and all of the in ANSI C63.10: 2013 on cor	um emission, the relati	ve positions of		



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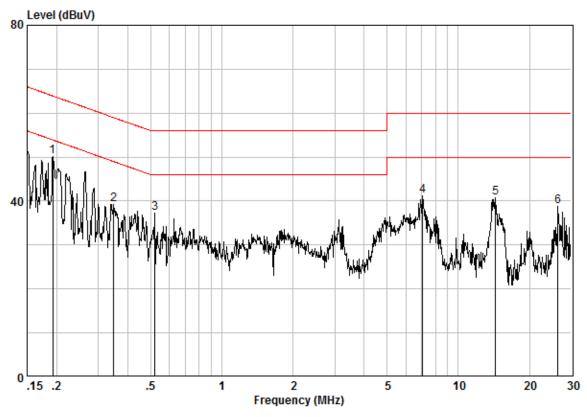
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Measurement Data

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 : CE LINE
Job No. : 7437CR
Test Mode : WIFI

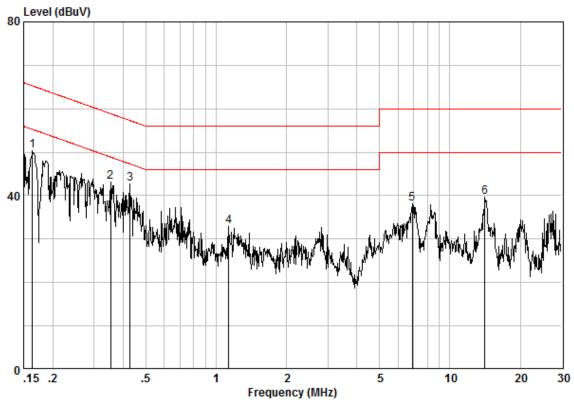
	Freq		LISN Factor				Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.19242	0.02	9.60	40.59	50.21	53.93	-3.72	Peak
2	0.34830	0.02	9.59	29.69	39.30	49.00	-9.70	Peak
3	0.52099	0.02	9.59	27.56	37.18	46.00	-8.82	Peak
4	7.062	0.08	9.68	31.46	41.22	50.00	-8.78	Peak
5	14.364	0.16	9.75	30.89	40.80	50.00	-9.20	Peak
6	26.418	0.16	9.87	28.70	38.72	50.00	-11.28	Peak



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Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 7437CR Test Mode : WIFI

	Freq	Cable Loss	LISN Factor			Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16327	0.02	9.60	40.74	50.36	55.30	-4.94	Peak
2	0.35388	0.02	9.59	33.50	43.11	48.87	-5.76	Peak
3 @	0.42825	0.02	9.60	33.11	42.73	47.29	-4.56	Peak
4	1.129	0.03	9.62	23.30	32.95	46.00	-13.05	Peak
5	6.914	0.08	9.68	28.35	38.11	50.00	-11.89	Peak
6	14.138	0.15	9.75	29.77	39.68	50.00	-10.32	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:	ANSI C63.10 :2013 Section 11.9.1			
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)			
Limit:	30dBm			
Test Results:	Pass			



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Measurement Data

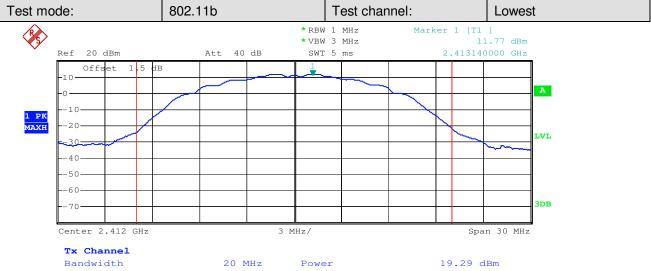
	802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	19.29	30.00	Pass				
Middle	19.13	30.00	Pass				
Highest	18.77	30.00	Pass				
	802.11g mo	de					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	23.63	30.00	Pass				
Middle	23.22	30.00	Pass				
Highest	Highest 22.84		Pass				
	802.11n(HT20)mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	22.28	30.00	Pass				
Middle	22.04	30.00	Pass				
Highest	21.49	30.00	Pass				



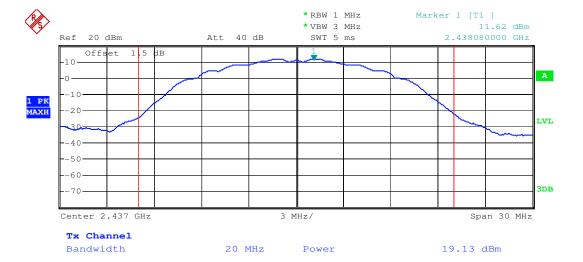
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Test plot as follows:



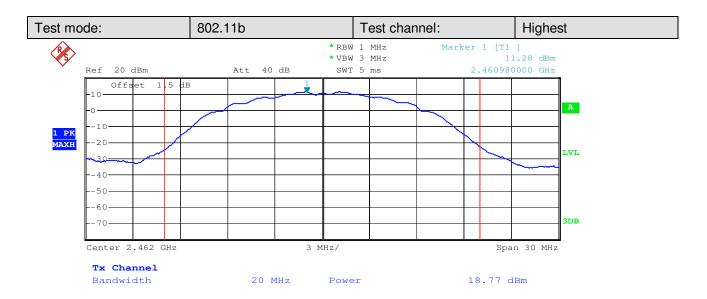




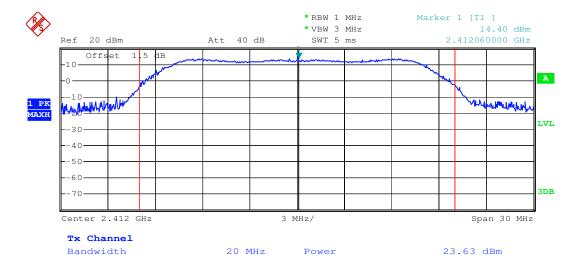


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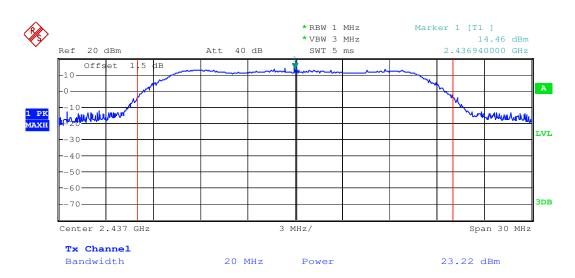


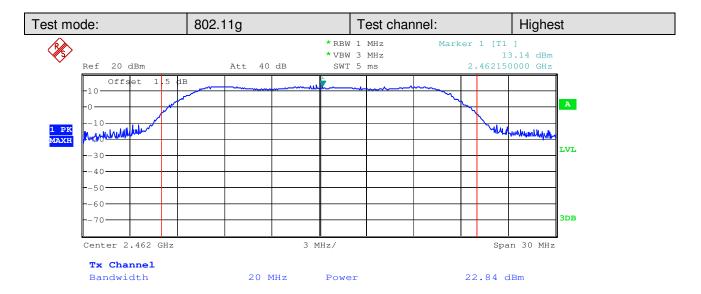


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Test mode: 802.11g Test channel: Middle

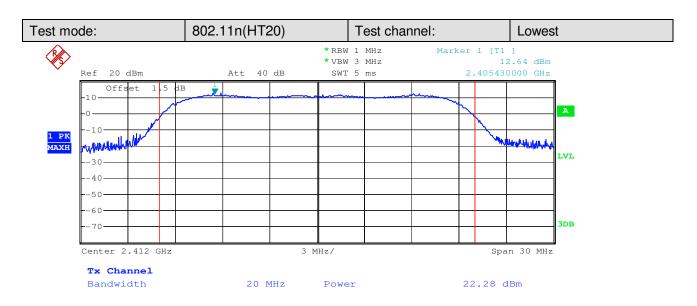




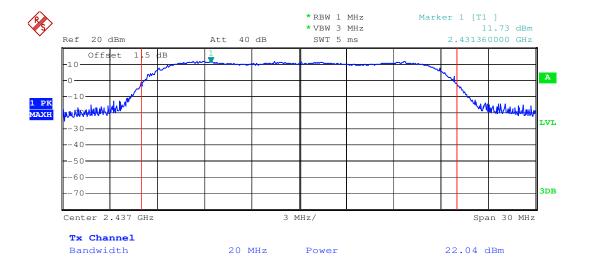


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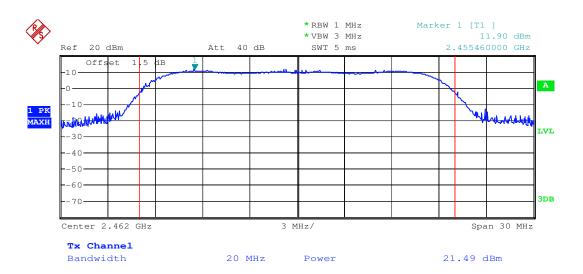




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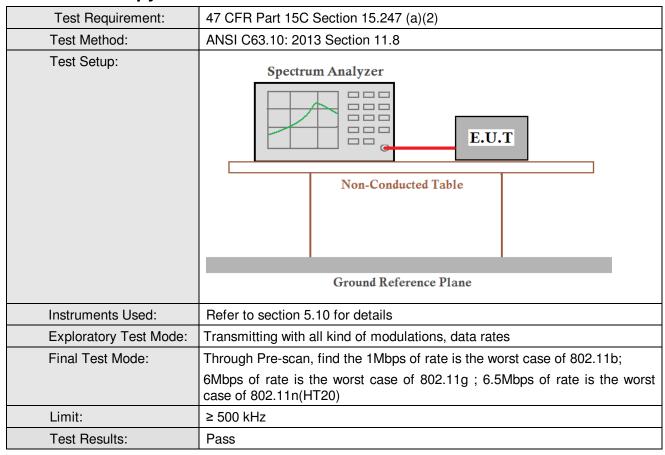




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6.4 6dB Occupy Bandwidth





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Measurement Data

Weasurement Data								
802.11b mode								
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	9.09	≥500	Pass					
Middle	8.58	≥500	Pass					
Highest	9.09	≥500	Pass					
	802.11g mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	15.87	≥500	Pass					
Middle	15.84	≥500	Pass					
Highest	15.87	≥500	Pass					
	802.11n(HT20) mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	17.61	≥500	Pass					
Middle	17.61	≥500	Pass					
Highest	17.61	≥500	Pass					

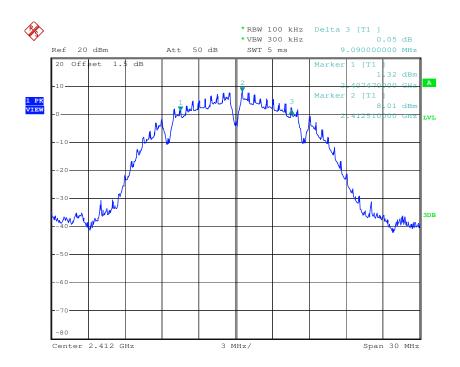


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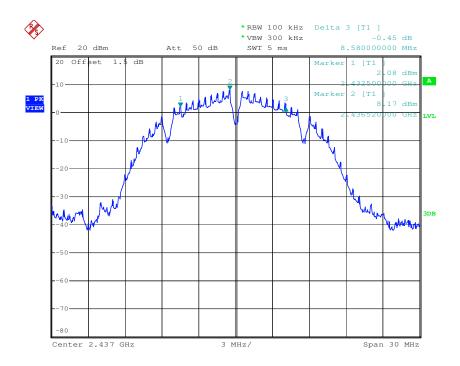
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





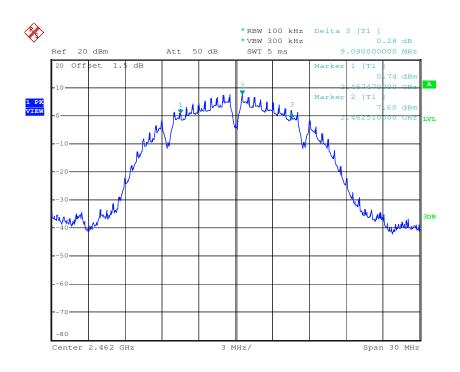


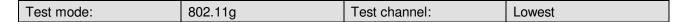


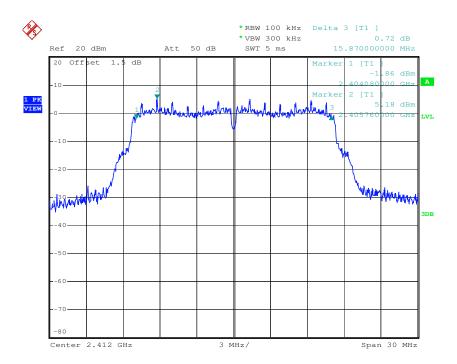
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Test mode: 802.11b Test channel: Highest





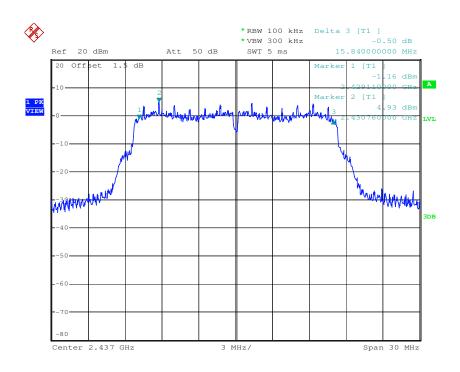


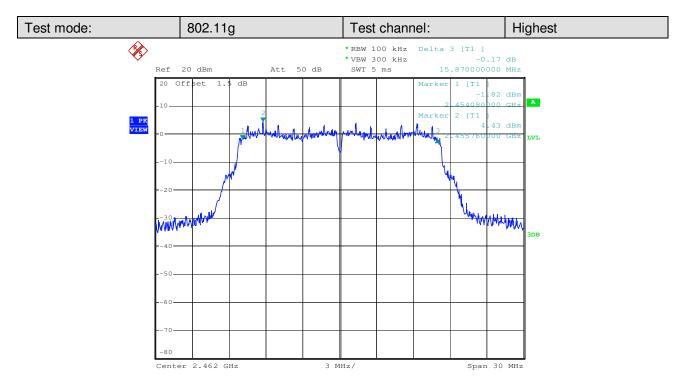


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Test mode: 802.11g Test channel: Middle



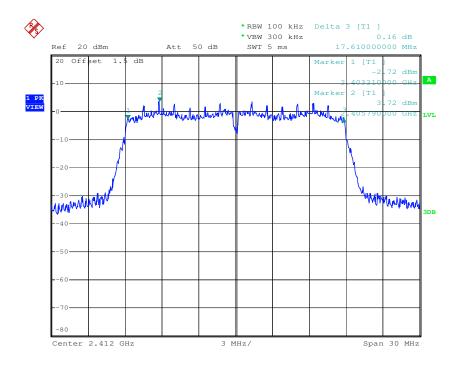




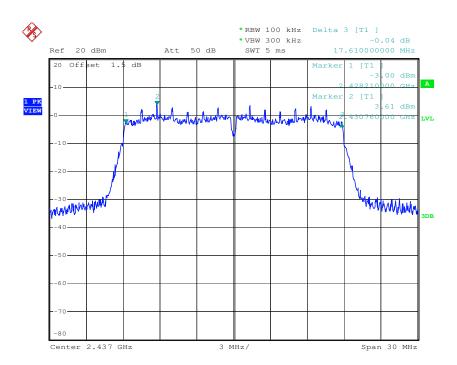
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Test mode: 802.11n(HT20) Test channel: Lowest





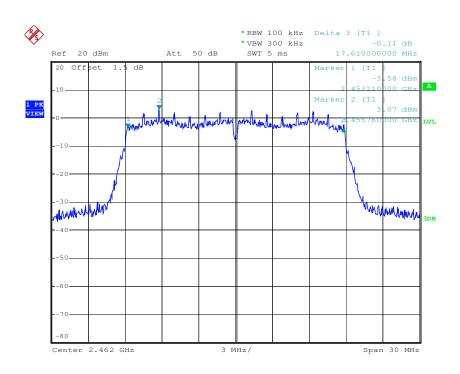




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Test mode: 802.11n(HT20) Test channel: Highest

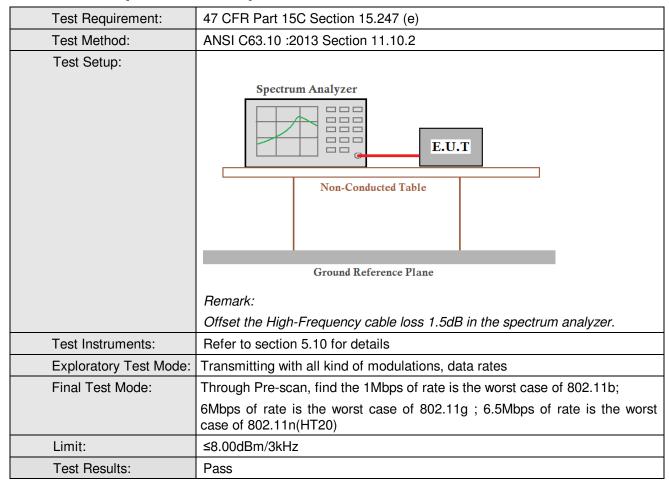




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6.5 Power Spectral Density





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Measurement Data

802.11b mode					
Test channel	Power Spectral Density	Limit (dBm/3kHz)	Result		
	(dBm/3kHz)				
Lowest	-6.04	≤8.00	Pass		
Middle	-6.66	≤8.00	Pass		
Highest	-6.56	≤8.00	Pass		
	802.11g mode				
Test channel	Power Spectral Density	Limit (dBm/3kHz)	Result		
	(dBm/3kHz)				
Lowest	-9.13	≤8.00	Pass		
Middle	-8.56	≤8.00	Pass		
Highest	-10.27	≤8.00	Pass		
802.11n (HT20) mode					
Test channel	Power Spectral Density	Limit (dBm/3kHz)	Result		
	(dBm/3kHz)				
Lowest	-9.98	≤8.00	Pass		
Middle	Middle -11.33		Pass		
Highest	-11.28	≤8.00	Pass		

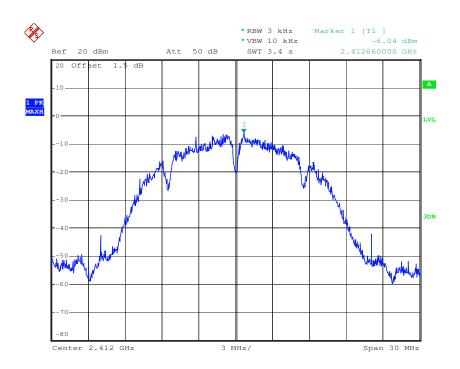


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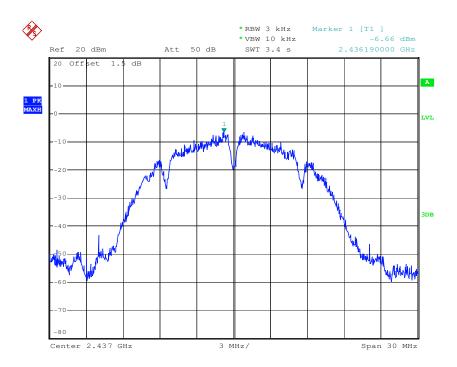
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Test plot as follows:

Test mode: 802.11b Test channel:	Lowest
----------------------------------	--------



Test mode: 802.11b Test channel: Middle

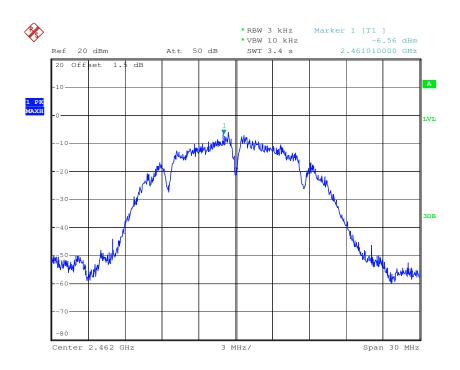




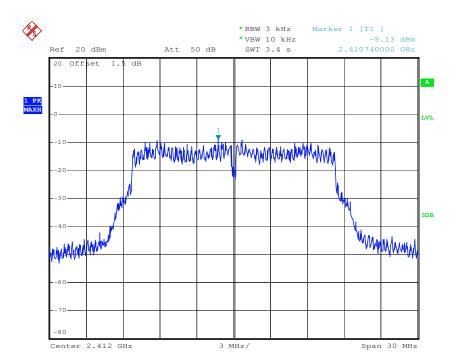
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Test mode: 802.11b Test channel: Highest





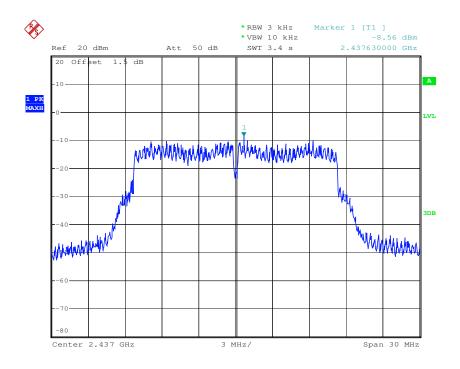




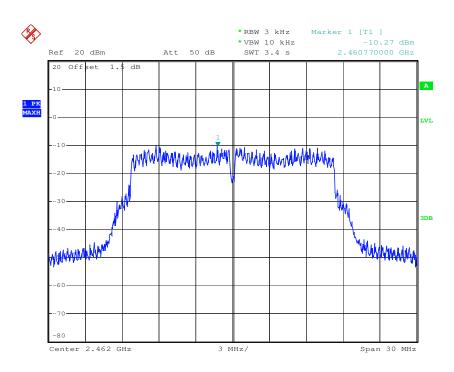
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Test mode: 802.11g Test channel: Middle



Test mode:	802.11g	Test channel:	Highest
10011110001	00=g	10010114111011	1g

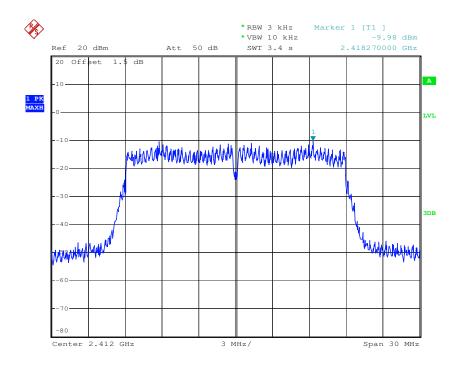




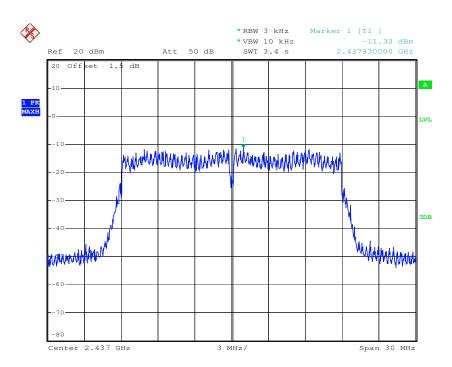
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Test mode: 802.11n (HT20) Test channel: Lowest





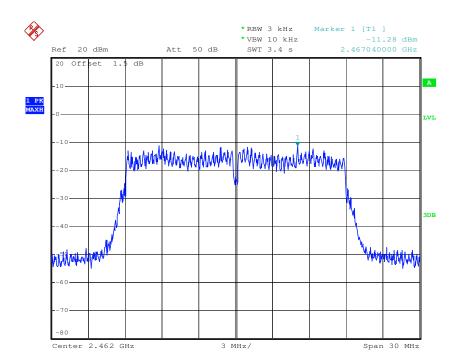




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Test mode: 802.11n (HT20) Test channel: Highest





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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
Exploratory Test Mode:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

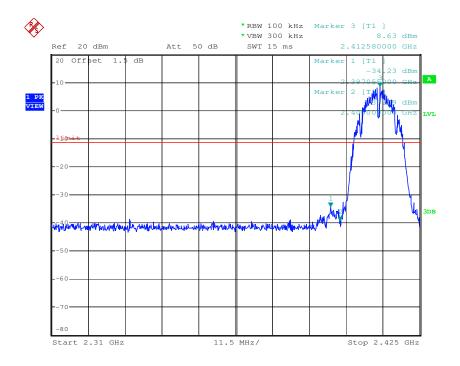


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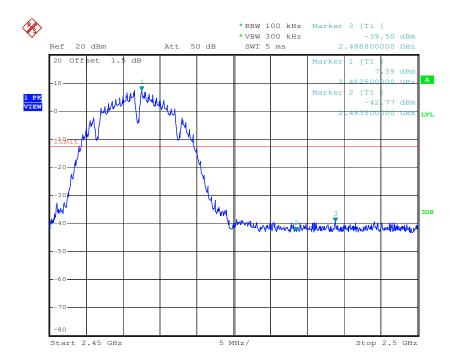
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





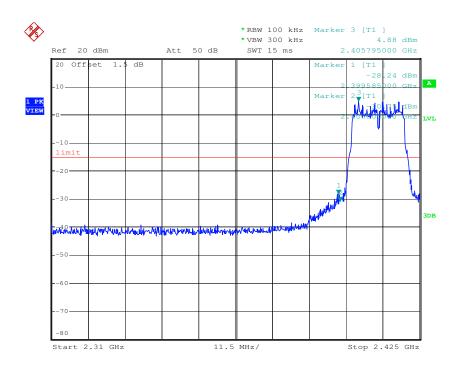


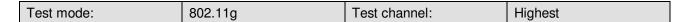


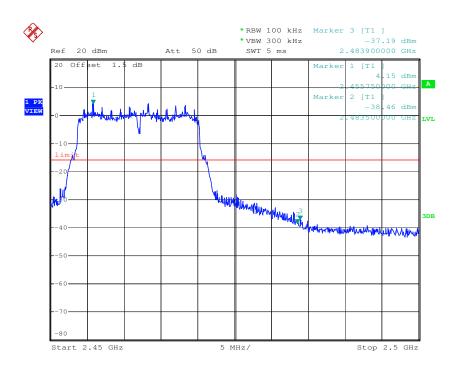
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Test mode: 802.11g Test channel: Lowest





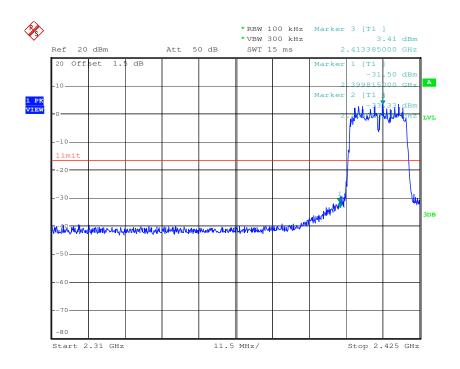


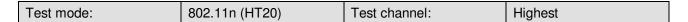


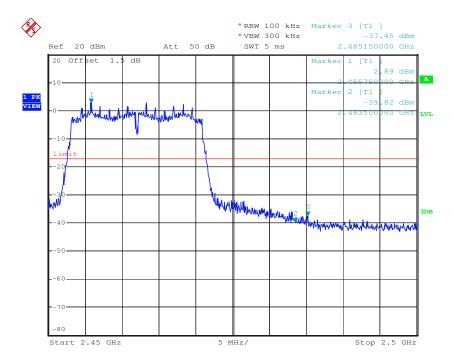
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Test mode: 802.11n (HT20) Test channel: Lowest









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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)							
Test Method:	ANSI C63.10: 2013 Section 11.11							
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)							
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							

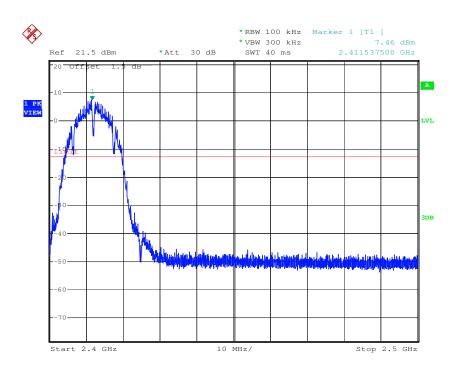


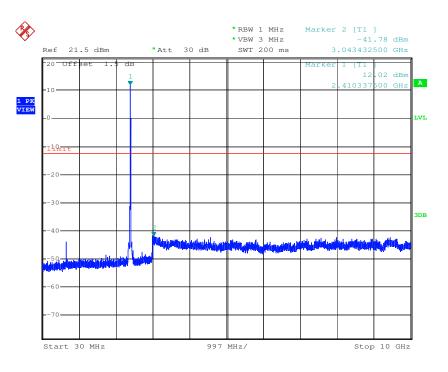
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

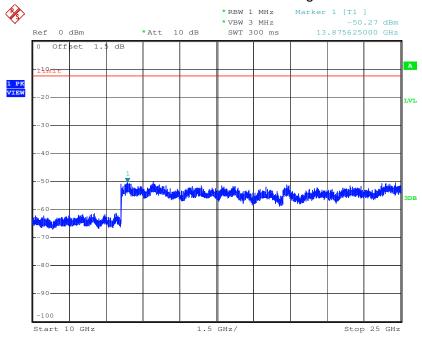




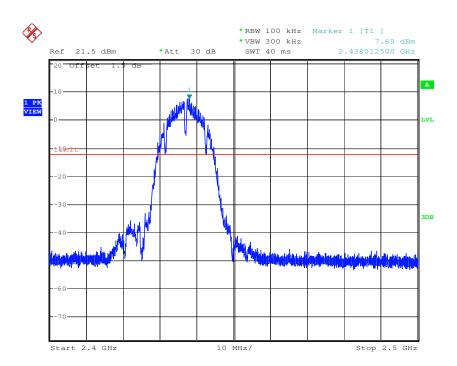


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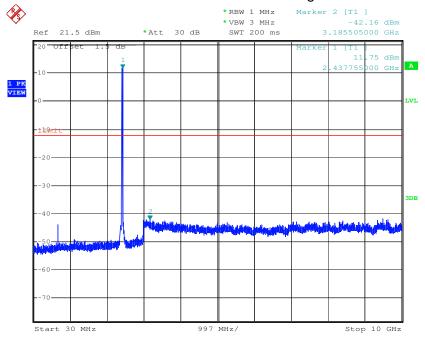


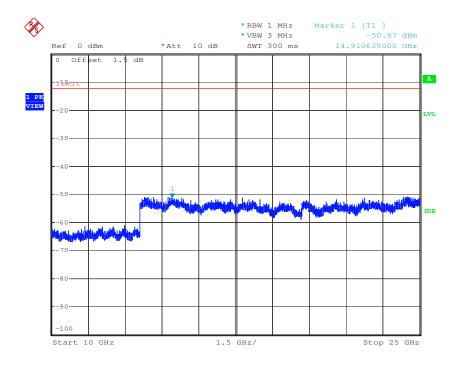




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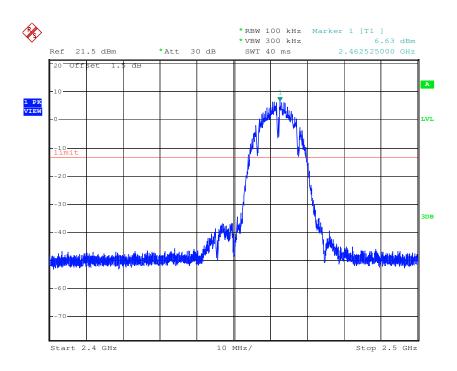


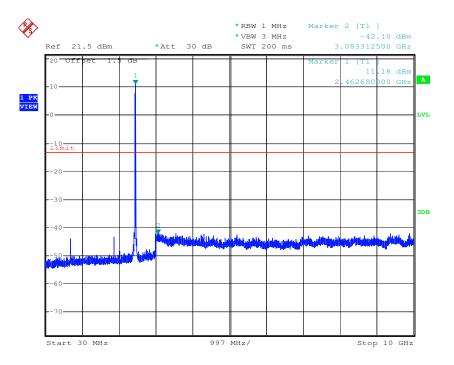


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Test mode: 802.11b Test channel: Highest

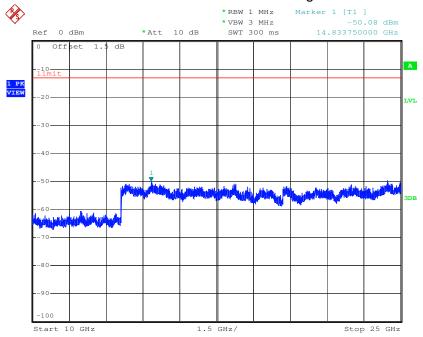




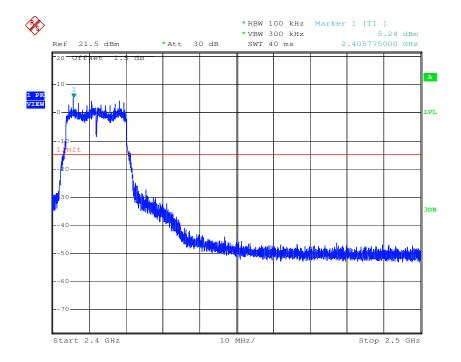


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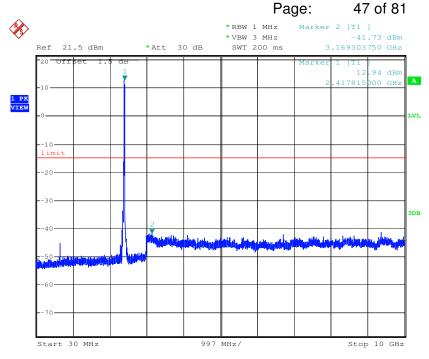


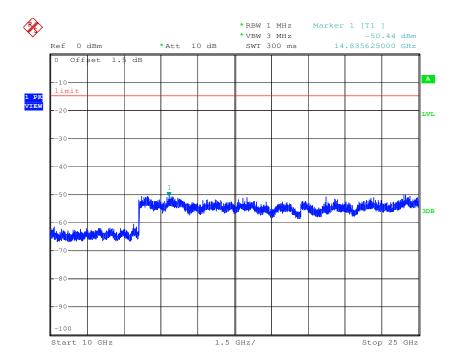
Test mode: 802.11g Test channel: Lowest





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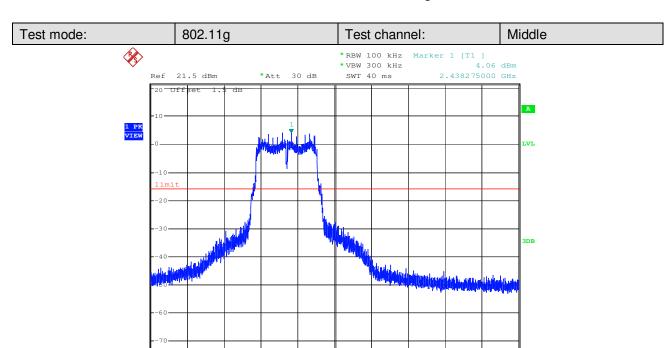




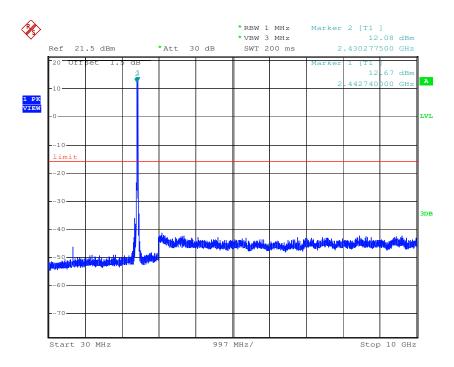
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Stop 2.5 GHz



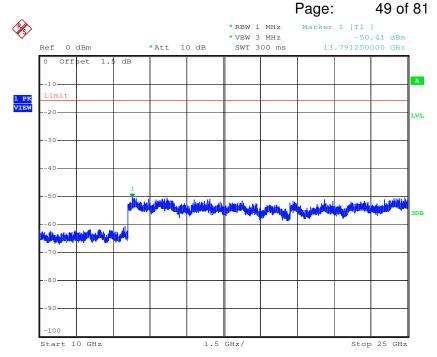
10 MHz/



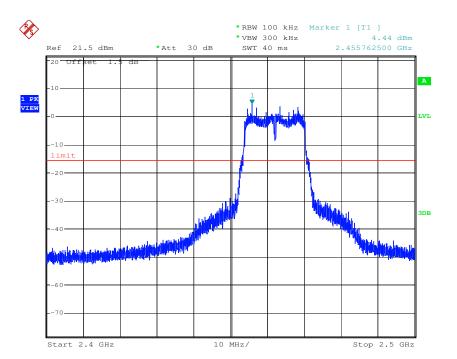
Start 2.4 GHz



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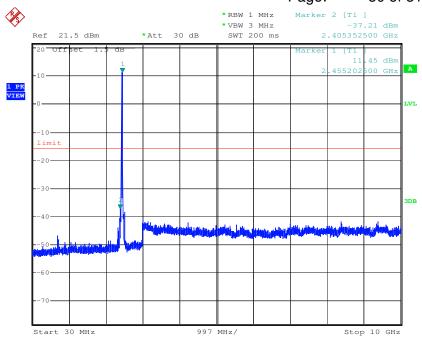


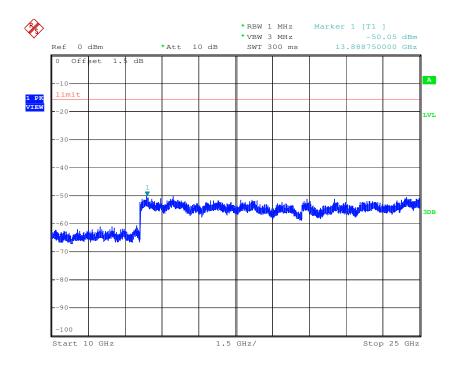




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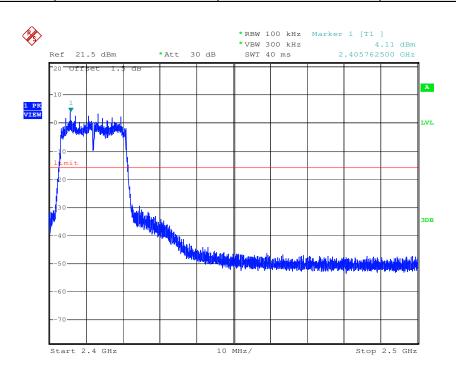


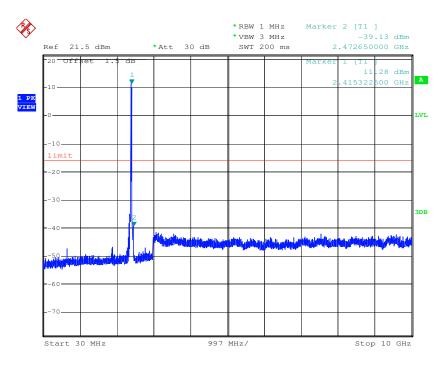


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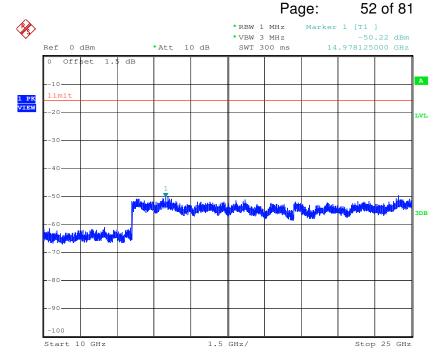
Test mode: 802.11n (HT20) Test channel: Lowest



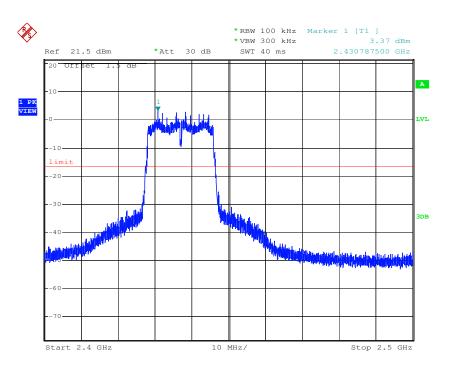




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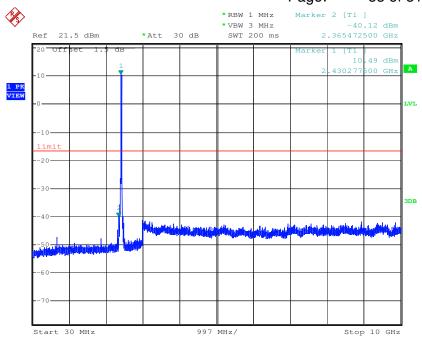
Test mode: 802.11n (HT20) Test channel: Middle

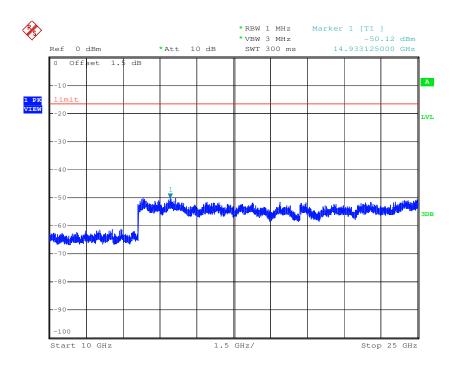




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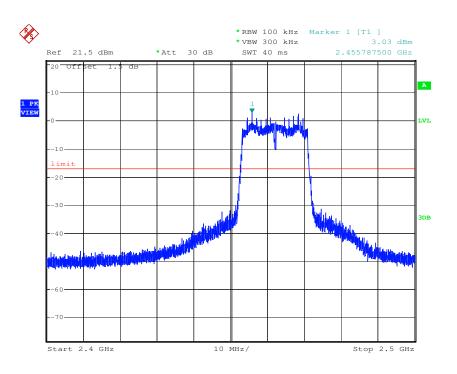


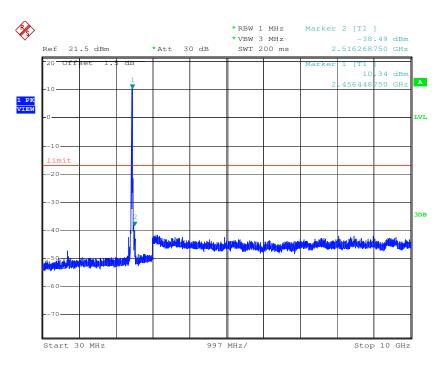


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Test mode: 802.11n (HT20) Test channel: Highest

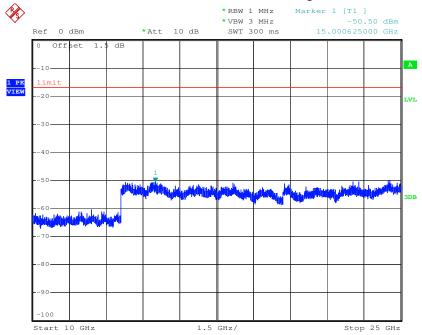






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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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6.8 Radiated Spurious Emissions

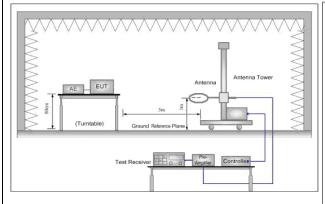
Test Requirement:	47 CFR Part 15C Sectio	n 15.209 and 15.2	05							
Test Method:	ANSI C63.10 :2013 Sect	ion 11.12								
Test Site:	Measurement Distance:	3m (Full-Anechoic	Chamber)							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	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 o	•		•						
	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 rad	iated by the device	e.							



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Test Setup:



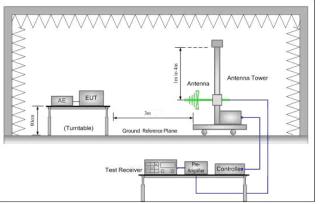


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

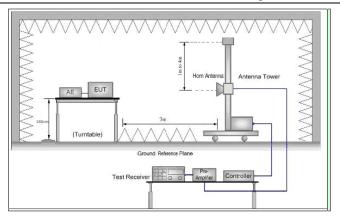


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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

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	is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)						
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which is worse case						
	Transmitting mode						
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.						
	j. Repeat above procedures until all frequencies measured was comple						
	i. The radiation measurements are performed in X, Y, Z axis position Transmitting mode, And found the X axis positioning which it is case.						
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel						
	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 method as specified and then reported in a data sheet.						

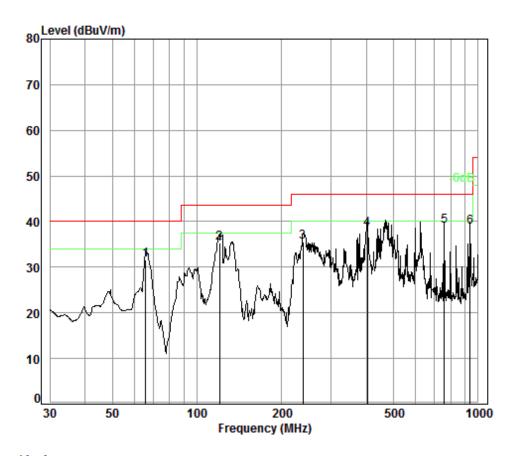


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6.8.1 Radiated emission below 1GHz

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



Condition: 3m VERTICAL

Job No. : 7437CR Test mode: Wifi

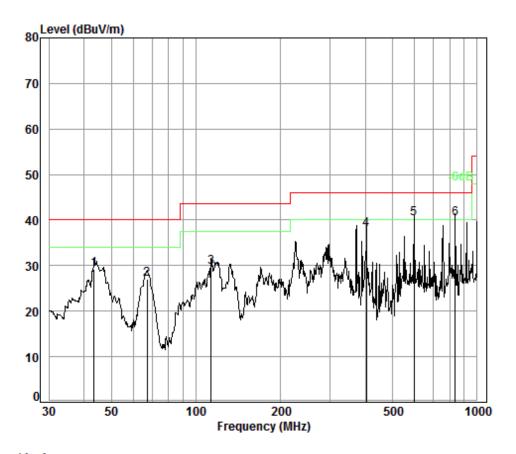
	Freq			Preamp Factor				Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	65.80	0.80	7.03	27.34	51.09	31.58	40.00	-8.42
2	120.28	1.25	7.89	27.18	53.40	35.36	43.50	-8.14
3	238.31	1.62	11.93	26.75	48.79	35.59	46.00	-10.41
4	404.67	2.22	16.32	27.12	46.96	38.38	46.00	-7.62
5 pp	758.04	3.08	21.80	27.47	41.59	39.00	46.00	-7.00
6	935.55	3.64	23.30	26.77	38.71	38.88	46.00	-7.12



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Condition: 3m HORIZONTAL

Job No. : 7437CR Test mode: Wifi

	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.51	0.68	11.56	27.37	44.41	29.28	40.00	-10.72
2	66.97	0.80	6.99	27.33	46.52	26.98	40.00	-13.02
3	113.32	1.24	8.37	27.22	47.20	29.59	43.50	-13.91
4	404.67	2.22	16.32	27.12	46.51	37.93	46.00	-8.07
5	597.22	2.70	19.72	27.79	45.66	40.29	46.00	-5.71
6 pp	836.24	3.35	22.40	27.22	41.84	40.37	46.00	-5.63



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6.8.2 Transmitter emission above 1GHz

Test mode	Test mode:		02.11b	Test ch	annel:	Lowest		Remar	Remark:		Peak	
Frequency (MHz)	Anter Fact (dB/	tor	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV))	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB)	t	Polarization	
3119.520	31.5	53	7.54	38.27	51.05		51.85	74.00	-22.1	5	Vertical	
3781.495	33.0	01	7.73	38.60	44.51		46.65	74.00	-27.3	35	Vertical	
4824.000	34.	19	8.90	39.04	43.25		47.30	74.00	-26.7	70	Vertical	
5803.188	34.	59	10.01	39.02	46.12		51.70	74.00	-22.3	30	Vertical	
7236.000	36.4	40	10.69	38.15	42.07		51.01	74.00	-22.9	99	Vertical	
9648.000	37.	53	12.52	36.97	40.21		53.29	74.00	-20.7	7 1	Vertical	
3128.560	31.	54	7.54	38.27	46.55		47.36	74.00	-26.6	64	Horizontal	
3972.178	33.	53	7.80	38.69	44.15		46.79	74.00	-27.2	21	Horizontal	
4824.000	34.	19	8.90	39.04	42.56		46.61	74.00	-27.3	39	Horizontal	
5820.005	34.	59	10.06	39.02	45.70		51.33	74.00	-22.6	67	Horizontal	
7236.000	36.4	40	10.69	38.15	42.97		51.91	74.00	-22.0)9	Horizontal	
9648.000	37.	53	12.52	36.97	40.43		53.51	74.00	-20.4	19	Horizontal	

Test mod	e:	8	02.11b	Test c	hannel:	Middle		Remark:		Peak
Frequency (MHz)	Anteni Facto (dB/m	or	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)		nit Line BuV/m)	Over Limit (dB)	Polarization
3119.520	31.50	3	7.54	38.27	48.80	49.60	-	74.00	-24.40	Vertical
3972.178	33.53	3	7.80	38.69	45.28	47.92		74.00	-26.08	Vertical
4874.000	34.28	8	8.97	39.05	42.50	46.70		74.00	-27.30	Vertical
6025.661	34.72	2	10.53	38.98	45.01	51.28		74.00	-22.72	Vertical
7311.000	36.3	7	10.72	38.07	42.38	51.40		74.00	-22.60	Vertical
9748.000	37.5	5	12.58	36.92	39.82	53.03		74.00	-20.97	Vertical
3119.520	31.53	3	7.54	38.27	50.50	51.30		74.00	-22.70	Horizontal
3781.495	33.0	1	7.73	38.60	45.31	47.45		74.00	-26.55	Horizontal
4874.000	34.28	8	8.97	39.05	43.98	48.18		74.00	-25.82	Horizontal
6113.481	34.79	9	10.41	38.93	45.52	51.79		74.00	-22.21	Horizontal
7311.000	36.37	7	10.72	38.07	42.42	51.44		74.00	-22.56	Horizontal
9748.000	37.5	5	12.58	36.92	39.88	53.09		74.00	-20.91	Horizontal



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Test mode	e:	8	02.11b	Test ch	annel:	Highest	Remar	k:	Peak	
Frequency (MHz)	Fa	enna ctor 3/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3124.037	31	.54	7.54	38.27	50.22	51.03	74.00	-22.97	Vertical	
3786.970	33	.03	7.74	38.60	44.25	46.42	74.00	-27.58	Vertical	
4924.000	34	.37	9.04	39.07	44.35	48.69	74.00	-25.31	Vertical	
5769.698	34	.57	9.91	39.02	46.09	51.55	74.00	-22.45	Vertical	
7386.000	36	.34	10.75	38.00	41.53	50.62	74.00	-23.38	Vertical	
9848.000	37	.57	12.63	36.87	39.69	53.02	74.00	-20.98	Vertical	
3119.520	31	.53	7.54	38.27	51.52	52.32	74.00	-21.68	Horizontal	
3858.877	33	.22	7.76	38.64	44.81	47.15	74.00	-26.85	Horizontal	
4924.000	34	.37	9.04	39.07	43.73	48.07	74.00	-25.93	Horizontal	
6087.002	34	.77	10.45	38.94	44.47	50.75	74.00	-23.25	Horizontal	
7386.000	36	5.34	10.75	38.00	41.93	51.02	74.00	-22.98	Horizontal	
9848.000	37	.57	12.63	36.87	39.62	52.95	74.00	-21.05	Horizontal	

Test mode	e:	8	02.11g	Test ch	annel:	Lowest	Remar	k:	Peak	
Frequency (MHz)	Fa	enna .ctor 3/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3842.163	33	3.18	7.76	38.63	45.23	47.54	74.00	-26.46	Vertical	
4824.000	34	l.19	8.90	39.04	43.19	47.24	74.00	-26.76	Vertical	
6025.661	34	1.72	10.53	38.98	45.21	51.48	74.00	-22.52	Vertical	
7236.000	36	6.40	10.69	38.15	42.88	51.82	74.00	-22.18	Vertical	
9648.000	37	7.53	12.52	36.97	39.91	52.99	74.00	-21.01	Vertical	
11911.760	38	3.51	14.47	38.22	39.02	53.78	74.00	-20.22	Vertical	
3776.027	33	3.00	7.73	38.60	47.44	49.57	74.00	-24.43	Horizontal	
4824.000	34	l.19	8.90	39.04	43.82	47.87	74.00	-26.13	Horizontal	
6069.413	34	1.76	10.47	38.96	44.77	51.04	74.00	-22.96	Horizontal	
7236.000	36	6.40	10.69	38.15	43.71	52.65	74.00	-21.35	Horizontal	
9648.000	37	7.53	12.52	36.97	40.31	53.39	74.00	-20.61	Horizontal	
11639.160	38	3.24	14.17	37.95	39.36	53.82	74.00	-20.18	Horizontal	



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Test mode	e:	8	02.11g	Test ch	annel:	Middle	Middle Remark		Peak
Frequency (MHz)	Fa	enna actor 3/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3836.607	33	3.16	7.75	38.63	46.25	48.53	74.00	-25.47	Vertical
4874.000	34	4.28	8.97	39.05	42.93	47.13	74.00	-26.87	Vertical
5761.355	34	1.56	9.89	39.02	45.62	51.05	74.00	-22.95	Vertical
7311.000	36	6.37	10.72	38.07	43.28	52.30	74.00	-21.70	Vertical
9748.000	37	7.55	12.58	36.92	40.57	53.78	74.00	-20.22	Vertical
11998.250	38	3.60	14.56	38.30	38.32	53.18	74.00	-20.82	Vertical
3748.808	32	2.92	7.72	38.59	45.87	47.92	74.00	-26.08	Horizontal
4874.000	34	4.28	8.97	39.05	43.12	47.32	74.00	-26.68	Horizontal
6069.413	34	4.76	10.47	38.96	45.19	51.46	74.00	-22.54	Horizontal
7311.000	36	5.37	10.72	38.07	42.85	51.87	74.00	-22.13	Horizontal
9748.000	37	7.55	12.58	36.92	40.14	53.35	74.00	-20.65	Horizontal
12226.070	38	3.74	14.37	38.53	39.29	53.87	74.00	-20.13	Horizontal

Test mode	e:	8	02.11g	Test ch	annel:	Highest	Remar	k:	Peak
Frequency (MHz)	Fa	enna ictor 3/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	(dRuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3831.060	33	3.15	7.75	38.62	45.12	47.40	74.00	-26.60	Vertical
4920.738	34	1.36	9.03	39.07	44.61	48.93	74.00	-25.07	Vertical
6060.637	34	1.75	10.48	38.96	45.38	51.65	74.00	-22.35	Vertical
7389.373	36	5.34	10.75	37.99	42.43	51.53	74.00	-22.47	Vertical
9855.008	37	7.57	12.63	36.87	40.55	53.88	74.00	-20.12	Vertical
12226.070	38	3.74	14.37	38.53	38.99	53.57	74.00	-20.43	Vertical
3831.060	33	3.15	7.75	38.62	45.65	47.93	74.00	-26.07	Horizontal
4924.000	34	1.37	9.04	39.07	44.54	48.88	74.00	-25.12	Horizontal
5956.314	34	1.67	10.44	39.00	45.83	51.94	74.00	-22.06	Horizontal
7386.000	36	5.34	10.75	38.00	42.58	51.67	74.00	-22.33	Horizontal
9848.000	37	7.57	12.63	36.87	40.18	53.51	74.00	-20.49	Horizontal
12386.320	38	3.83	14.24	38.70	38.91	53.28	74.00	-20.72	Horizontal



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Test mode	e:	802.1	1n(HT20)	Test ch	annel:	Lowest	Remar	k:	Peak
Frequency (MHz)	Fa	tenna actor B/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3842.163	33	3.18	7.76	38.63	45.21	47.52	74.00	-26.48	Vertical
4824.000	34	4.19	8.90	39.04	43.44	47.49	74.00	-26.51	Vertical
6078.201	34	4.76	10.46	38.95	45.03	51.30	74.00	-22.70	Vertical
7236.000	36	6.40	10.69	38.15	43.74	52.68	74.00	-21.32	Vertical
9648.000	37	7.53	12.52	36.97	40.44	53.52	74.00	-20.48	Vertical
12102.870	38	3.66	14.47	38.41	38.49	53.21	74.00	-20.79	Vertical
3553.389	32	2.36	7.65	38.49	44.95	46.47	74.00	-27.53	Horizontal
4824.000	34	4.19	8.90	39.04	44.48	48.53	74.00	-25.47	Horizontal
6087.002	34	4.77	10.45	38.94	46.03	52.31	74.00	-21.69	Horizontal
7236.000	36	6.40	10.69	38.15	43.22	52.16	74.00	-21.84	Horizontal
9648.000	37	7.53	12.52	36.97	39.97	53.05	74.00	-20.95	Horizontal
12120.390	38	3.67	14.46	38.42	39.28	53.99	74.00	-20.01	Horizontal

Test mode	e: 802	.11n(HT20)	Test ch	annel:	Middle	Remar	k:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3792.453	33.04	7.74	38.61	45.35	47.52	74.00	-26.48	Vertical
4874.000	34.28	8.97	39.05	44.36	48.56	74.00	-25.44	Vertical
6078.201	34.76	10.46	38.95	45.82	52.09	74.00	-21.91	Vertical
7311.000	36.37	10.72	38.07	42.40	51.42	74.00	-22.58	Vertical
9748.000	37.55	12.58	36.92	40.48	53.69	74.00	-20.31	Vertical
12368.410	38.82	14.26	38.68	38.74	53.14	74.00	-20.86	Vertical
3836.607	33.16	7.75	38.63	45.33	47.61	74.00	-26.39	Horizontal
4874.000	34.28	8.97	39.05	43.25	47.45	74.00	-26.55	Horizontal
6078.201	34.76	10.46	38.95	44.77	51.04	74.00	-22.96	Horizontal
7311.000	36.37	10.72	38.07	41.87	50.89	74.00	-23.11	Horizontal
9748.000	37.55	12.58	36.92	39.52	52.73	74.00	-21.27	Horizontal
12033.020	38.62	14.53	38.33	38.27	53.09	74.00	-20.91	Horizontal



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Test mode	e: 802	.11n(HT20)	Test ch	annel:	Highest	Remai	k:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3825.521	33.13	7.75	38.62	45.07	47.33	74.00	-26.67	Vertical
4924.000	34.37	9.04	39.07	44.67	49.01	74.00	-24.99	Vertical
6060.637	34.75	10.48	38.96	44.71	50.98	74.00	-23.02	Vertical
7386.000	36.34	10.75	38.00	43.03	52.12	74.00	-21.88	Vertical
9848.000	37.57	12.63	36.87	39.97	53.30	74.00	-20.70	Vertical
12208.390	38.73	14.39	38.52	39.07	53.67	74.00	-20.33	Vertical
3836.607	33.16	7.75	38.63	45.31	47.59	74.00	-26.41	Horizontal
4924.000	34.37	9.04	39.07	43.94	48.28	74.00	-25.72	Horizontal
6034.386	34.73	10.52	38.98	45.46	51.73	74.00	-22.27	Horizontal
7386.000	36.34	10.75	38.00	42.09	51.18	74.00	-22.82	Horizontal
9848.000	37.57	12.63	36.87	39.85	53.18	74.00	-20.82	Horizontal
12386.320	38.83	14.24	38.70	39.09	53.46	74.00	-20.54	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.

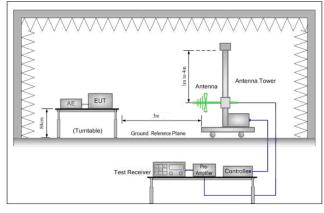


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10: 2013 Section 11.12										
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Full-Anechoic Chamber)									
Limit:	Frequency	Frequency Limit (dBuV/m @3m) Remark									
	30MHz-88MHz	30MHz-88MHz 40.0 Quasi-peak Value									
	88MHz-216MHz	88MHz-216MHz 43.5 Quasi-peak Value									
	216MHz-960MHz	46.0	Quasi-peak Value								
	960MHz-1GHz	54.0	Quasi-peak Value								
	Above 1GHz	54.0 Average Value									
	74.0 Peak Value										
Test Setup:											



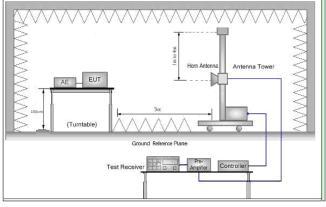


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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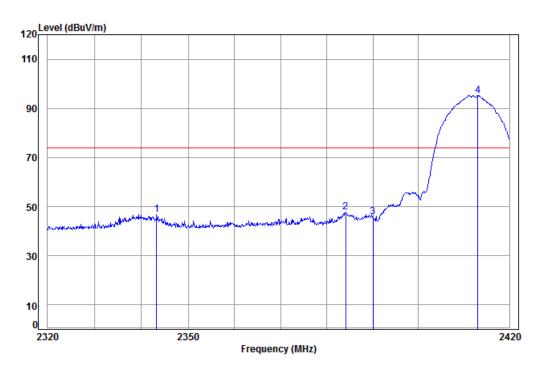
meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates.		
1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete. 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 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report.	Test Procedure:	meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest
antenna, which was mounted on the top of a variable-height antenna tower. d. 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. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete. 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); Only the worst case is recorded in the report.		1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report. Refer to section 5.10 for details		antenna, which was mounted on the top of a variable-height antenna
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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel, the Highest channel i. Repeat above procedures until all frequencies measured was complete. 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 802.11n(HT20); Only the worst case is recorded in the report. Refer to section 5.10 for details		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make
Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel, the Highest channel i. Repeat above procedures until all frequencies measured was complete. 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); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		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
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 h. Test the EUT in the lowest channel, the Highest channel i. Repeat above procedures until all frequencies measured was complete. 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); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		
i. Repeat above procedures until all frequencies measured was complete. 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); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for
complete. 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); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		h. Test the EUT in the lowest channel, the Highest channel
Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		· · · · · · · · · · · · · · · · · · ·
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
case of 802.11n(HT20); Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
Instruments Used: Refer to section 5.10 for details		6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20);
Test Results: Pass		Refer to section 5.10 for details
	Test Results:	Pass



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



Condition: 3m Vertical Job No: : 7437CR

Mode: : 2412 Band edge

: WIFI-B

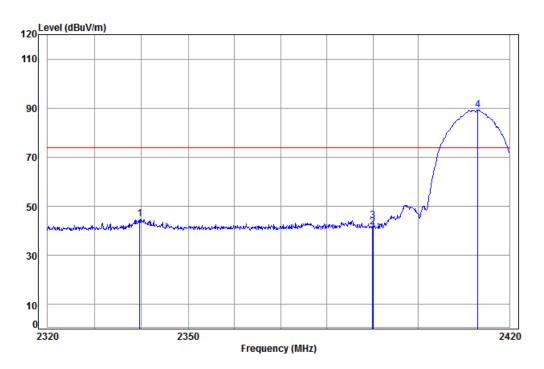
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2343.221	5.30	28.94	38.14	50.61	46.71	74.00	-27.29	
2	2384.116	5.33	29.06	38.14	51.41	47.66	74.00	-26.34	
3	2390.000	5.34	29.08	38.14	49.48	45.76	74.00	-28.24	
4 pp	2413.065	5.35	29.15	38.15	98.94	95.29	74.00	21.29	



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



Condition: 3m HORIZONTAL

Job No: : 7437CR

Mode: : 2412 Band edge

: WIFI-B

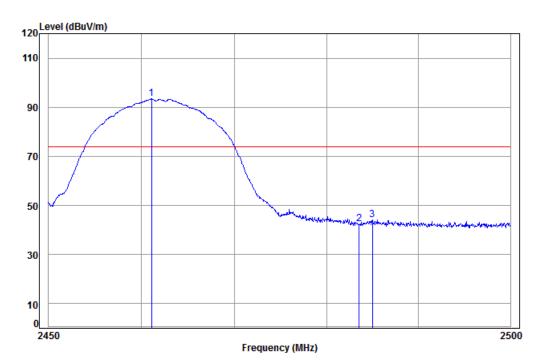
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2339.664	5.30	28.92	38.14	48.73	44.81	74.00	-29.19	
2	2389.959	5.34	29.08	38.14	45.27	41.55	74.00	-32.45	
3	2390.000	5.34	29.08	38.14	47.76	44.04	74.00	-29.96	
4 pp	2413.065	5.35	29.15	38.15	93.03	89.38	74.00	15.38	



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



Condition: 3m VERTICAL Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-B

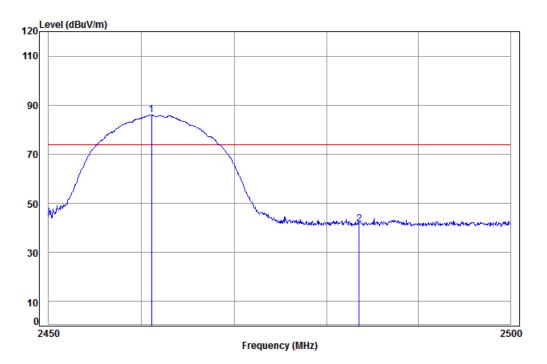
Ant Preamp Cable Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dB dB/m dBuV dBuV/m dBuV/m dΒ 1 pp 2461.063 5.39 29.29 38.15 96.86 93.39 74.00 19.39 2483.500 5.41 29.35 38.15 45.77 42.38 74.00 -31.62 2484.944 5.41 29.36 38.15 47.59 44.21 74.00 -29.79



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



Condition: 3m HORIZONTAL

Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-B

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

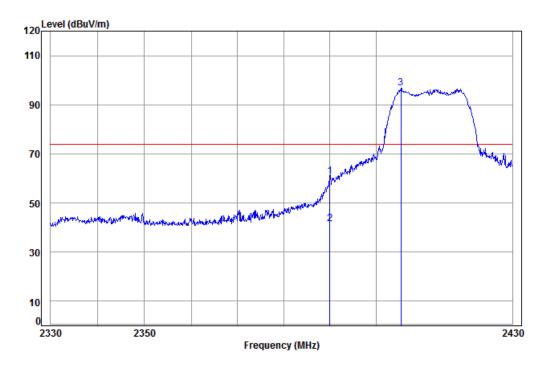
1 pp 2461.063 5.39 29.29 38.15 89.54 86.07 74.00 12.07 2 2483.500 5.41 29.35 38.15 44.96 41.57 74.00 -32.43



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Worse case mode:	802.11a	Test channel:	Lowest	Remark:	Peak	Vertical
Worse case mode.	002.119	rest charmer.	LOWCSI	riciliant.	i can	VCItiCai



Condition: 3m VERTICAL Job No: : 7437CR

Mode: : 2412 Band edge

: WIFI-G

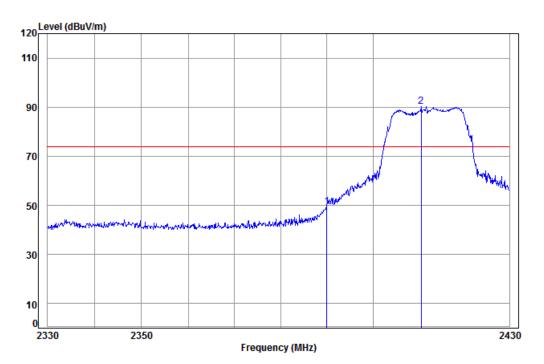
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2 a	2390.000 v 2390.000 p 2405.514	5.34	29.08	38.14	45.40	41.68	54.00	-12.32	Average



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



Condition: 3m HORIZONTAL

Job No: : 7437CR

2 pp 2410.574

Mode: : 2412 Band edge

: WIFI-G

Cable Ant Preamp Read Limit Over
Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

2390.000 5.34 29.08 38.14 53.13 49.41 74.00 -24.59

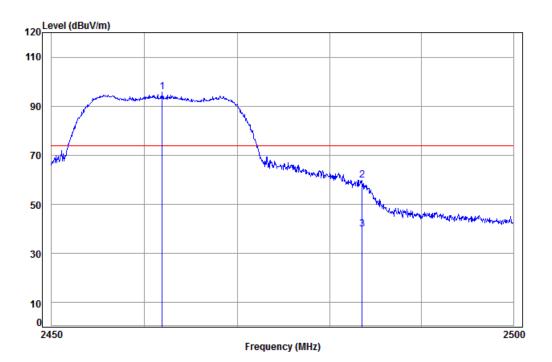
5.35 29.14 38.15 94.03 90.37 74.00 16.37



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



Condition: 3m VERTICAL Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-G

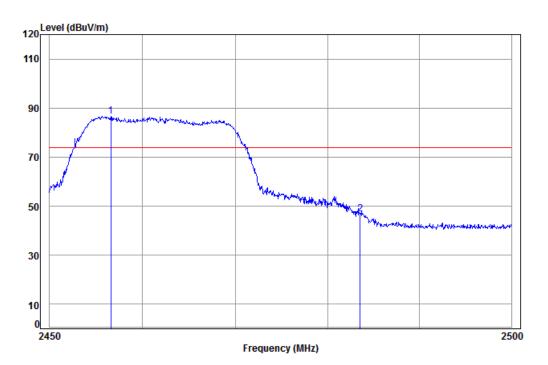
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Frea MHz dB/m dΒ dBuV dBuV/m dBuV/m 1 pp 2461.908 5.39 29.29 38.15 99.39 95.92 74.00 21.92 38.15 63.35 59.96 74.00 -14.04 2483.500 5.41 29.35 3 av 2483.500 5.41 29.35 38.15 43.13 39.74 54.00 -14.26 Average



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



Condition: 3m HORIZONTAL

Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-G

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBw dBw/m dBw//m dBw//m dB

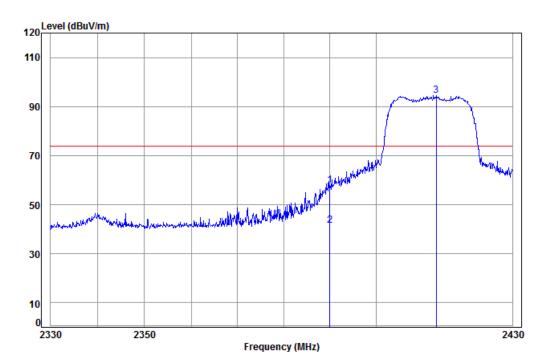
1 pp 2456.592 5.39 29.27 38.15 90.05 86.56 74.00 12.56 2 2483.500 5.41 29.35 38.15 50.30 46.91 74.00 -27.09



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Worse case mode: 802.11 n20 Test channel: Lowest Remark: Peak Vertical



Condition: 3m VERTICAL Job No: : 7437CR

Mode: : 2412 Band edge

: WIFI-N20

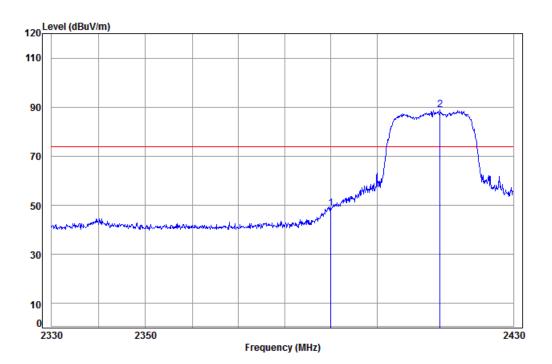
Cable Ant Preamp Read Limit 0ver Limit Remark Loss Factor Factor Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 2390.000 5.34 29.08 38.14 61.65 57.93 74.00 -16.07 2 av 2390.000 5.34 29.08 38.14 45.21 41.49 54.00 -12.51 Average 3 pp 2413.209 5.36 29.15 38.15 98.29 94.65 74.00 20.65



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Worse case mode: 802.11 n20 Test channel: Lowest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No: : 7437CR

2 pp 2413.818

Mode: : 2412 Band edge

: WIFI-N20

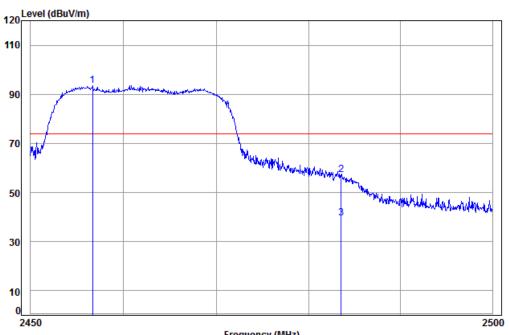
Ant Preamp Cable Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m 5.34 29.08 38.14 52.38 48.66 74.00 -25.34 2390.000 5.36 29.15 38.15 92.55 88.91 74.00 14.91



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Worse case mode: 802.11 n20 Test channel: Highest Remark: Peak Vertical



Frequency (MHz)

Condition: 3m VERTICAL

Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-N20

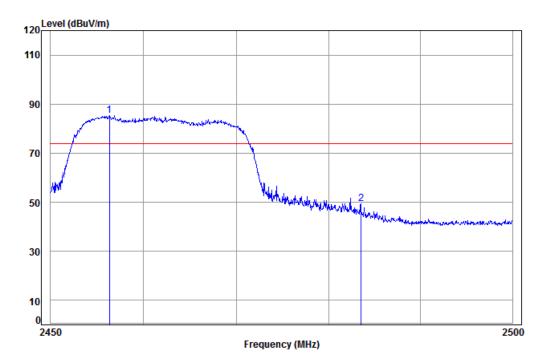
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	p 2456.642	5.39	29.27	38.15	97.01	93.52	74.00	19.52		
2	2483.500	5.41	29.35	38.15	60.48	57.09	74.00	-16.91		
3 21	2/83 500	5 /11	29 35	38 15	12 80	39 /11	54 00	-1/1 59	Average	



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Worse case mode: 802.11 n20 Test channel: Highest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No: : 7437CR

Mode: : 2462 Band edge

: WIFI-N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 2456.294 2483.500								

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.: 217A12

7.1 Conducted Emission



7.2 Radiated Emission



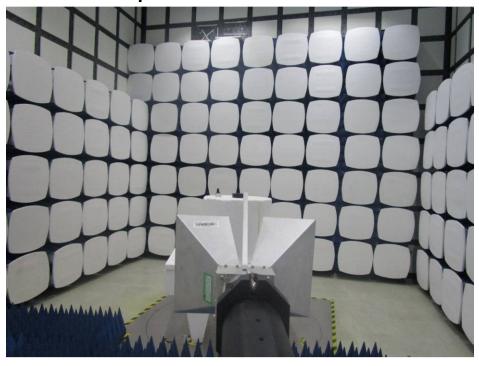
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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1608007437CR.