

Report No.: SZEM160500405602

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FCC REPORT

Application No: SZEM1605004056CR

Applicant: Pushd inc

Product Name: AURA FRAME - smart digital photo frame

Model No.(EUT): JD097RT-00E

Trade Mark: AURA

FCC ID: 2AI5H-JD097RT-00E

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

Date of Receipt: 2016-06-01

Date of Test: 2016-06-15 to 2016-06-30

Date of Issue: 2016-07-06

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		2016-07-06		Original				

Authorized for issue by:		
Tested By	(Bill Chen) /Project Engineer	2016-06-30 Date
Prepared By	Iris Zhou	2016-07-06
	(Iris Zhou) /Clerk	Date
Checked By	Eric Fu	2016-07-06
	(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	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	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:	Pushd inc
Address of Applicant:	50 ELDRIDGE STREET SUITE 5D NEW YORK, NY 10002 US

5.2 General Description of EUT

Product Name:	AURA FRAME - smart digital photo frame
Model No.:	JD097RT-00E
Trade Mark:	AURA
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)
Antenna Type:	PIFA
Antenna Gain:	2.5dBi
EUT Power Supply:	MODEL:YN48W-2401875UW
	INPUT:100-240V 50/60Hz 1.0A
	OUTPUT:24V 1.875A 45W
Highest frequency of the internal sources of the EUT:	1800MHz

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Operation Frequency each of channel(802.11b/g/n HT20)											
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Chanr	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	245	52MHz				
Operation F	requ	ency each	of channe	el(802.11n HT40)							
Channel Frequency			ency	Channel	Frequen	су	Chan	nel	ı	Frequency	
3	3 2422MHz		ИНz	6	2437MF	2437MHz		9		2452MHz	
4		2427	ИНz	7	2442MF	lz					
5		2432	ИНz	8	2447MH	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):

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:	25.0 °C
Humidity:	55 % RH
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 independent unit.

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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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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5.10 Equipment List

	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13			
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09			
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	2015-08-30	2016-08-30			
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2015-08-30	2016-08-30			
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2015-08-30	2016-08-30			
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	2015-10-09	2016-10-09			

	RE in Chamber								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2015-08-01	2016-08-01			
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2016-04-25	2017-04-25			
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2017-01-26			
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-04-25	2017-04-25			
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2016-08-14			



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	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	2015-10-09	2016-10-09
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	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09
8	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	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard 47 CFR Part 15C Section 15.203 /247(c) requirement:

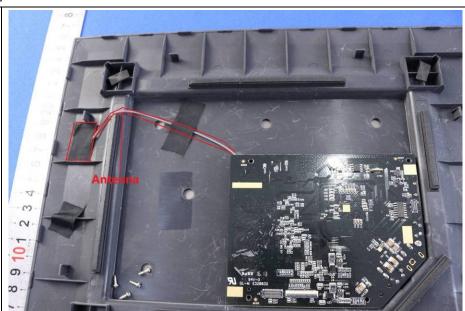
15.203 requirement:

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 2.5dBi.



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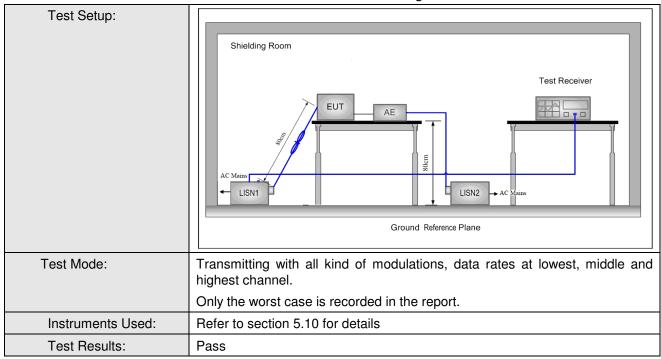
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	Fueron and an annual (MILE)	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.					
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The 						
	vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundar unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other the EUT and associated equipment was at least 0.8 m from the 15) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to the conducted measurement.						



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Measurement Data

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

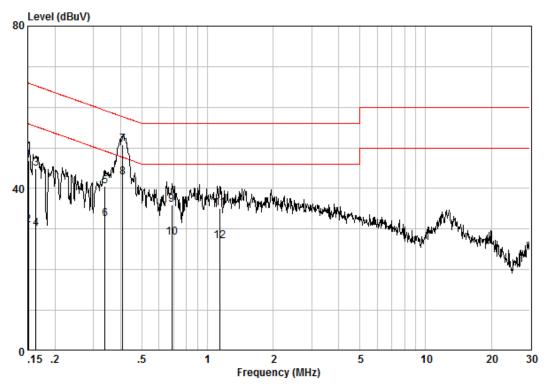
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Site : Shielding Room Condition : CE LINE Job No. : 4056CR Test Mode : a

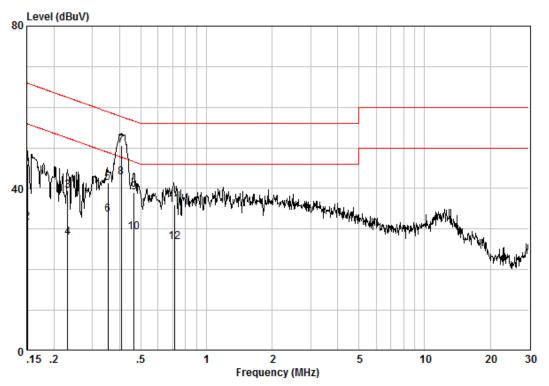
		Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
			42		abar	abar	aba.		
1		0.15080	0.02	9.59	37.18	46.79	65.96	-19.16	QP
2		0.15080	0.02	9.59	21.45	31.06	55.96	-24.90	AVERAGE
3		0.16327	0.02	9.60	35.26	44.88	65.30	-20.41	QP
4		0.16327	0.02	9.60	20.44	30.06	55.30	-25.24	AVERAGE
5		0.33920	0.02	9.59	30.97	40.58	59.22	-18.64	QP
6		0.33920	0.02	9.59	22.92	32.53	49.22	-16.69	AVERAGE
7		0.40831	0.02	9.60	41.07	50.69	57.68	-6.99	QP
8	@	0.40831	0.02	9.60	33.21	42.83	47.68	-4.85	AVERAGE
9		0.68626	0.02	9.61	26.30	35.93	56.00	-20.07	QP
10		0.68626	0.02	9.61	18.38	28.01	46.00	-17.99	AVERAGE
11		1.141	0.03	9.62	25.43	35.08	56.00	-20.92	QP
12		1.141	0.03	9.62	17.35	26.99	46.00	-19.01	AVERAGE



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Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 4056CR Test Mode : TX

		Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.15080	0.02	9.62	36.43	46.07	65.96	-19.88	QP
2		0.15080	0.02	9.62	22.00	31.64	55.96	-24.32	AVERAGE
3		0.23162	0.02	9.61	29.81	39.45	62.39	-22.94	QP
4		0.23162	0.02	9.61	18.28	27.91	52.39	-24.48	AVERAGE
5		0.35388	0.02	9.62	31.75	41.39	58.87	-17.48	QP
6		0.35388	0.02	9.62	24.00	33.64	48.87	-15.23	AVERAGE
7		0.40615	0.02	9.62	41.00	50.64	57.73	-7.09	QP
8	@	0.40615	0.02	9.62	32.99	42.63	47.73	-5.09	AVERAGE
9		0.46614	0.02	9.63	29.45	39.09	56.58	-17.49	QP
10		0.46614	0.02	9.63	19.56	29.21	46.58	-17.38	AVERAGE
11		0.71219	0.03	9.63	26.21	35.87	56.00	-20.13	QP
12		0.71219	0.03	9.63	17.08	26.74	46.00	-19.26	AVERAGE

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				
Test Mode:	Transmitting with all kind of modulations, data rates				
Limit:	30dBm				
Test Results:	Pass				

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Pre-scan under all rate at lowest channel 1								
Mode		802	.11b			_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	13.67	13.65	13.63	13.59				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	15.11	15.09	15.07	15.05	15.03	14.99	14.97	14.95
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	13.40	13.38	13.35	13.33	13.31	13.28	13.25	13.23
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	13.72	13.69	13.67	13.65	13.63	13.61	13.59	13.57

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

	200 44bd.						
	802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	13.67	30.00	Pass				
Middle	14.21	30.00	Pass				
Highest	14.21	30.00	Pass				
	802.11g mo	de					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	15.11	30.00	Pass				
Middle	15.36	30.00	Pass				
Highest	15.30	30.00	Pass				
	802.11n(HT20)	mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	13.40	30.00	Pass				
Middle	13.67	30.00	Pass				
Highest	13.59	30.00	Pass				
802.11n(HT40)mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	13.72	30.00	Pass				
Middle	13.83	30.00	Pass				
Highest	13.84	30.00	Pass				



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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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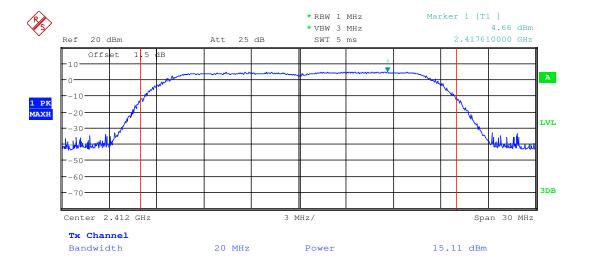
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



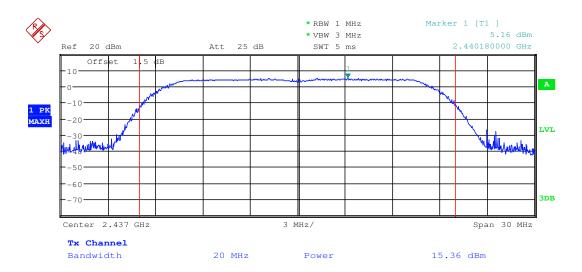
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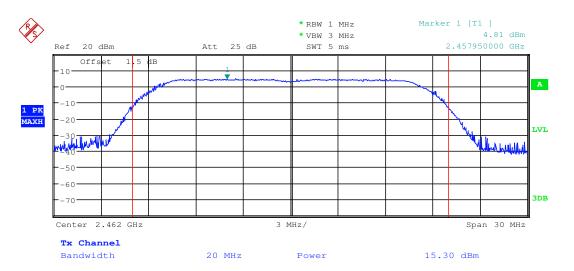
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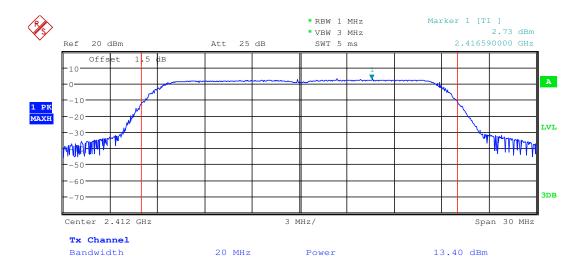
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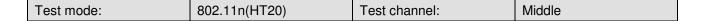


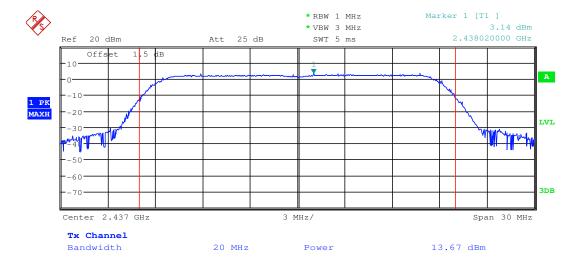
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Test mode: 802.11n(HT20) Test channel: Lowest







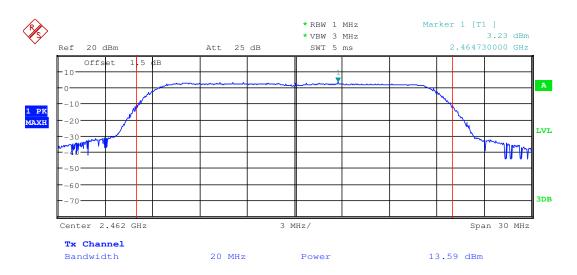
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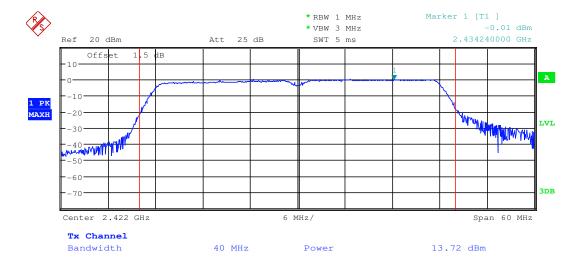
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Test mode: 802.11n(HT20) Test channel: Highest







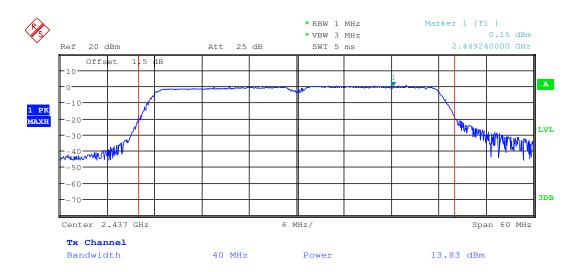
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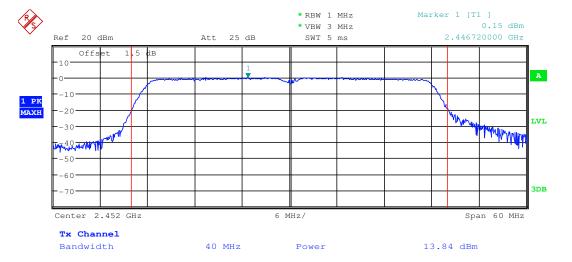
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Test mode: 802.11n(HT40) Test channel: Middle







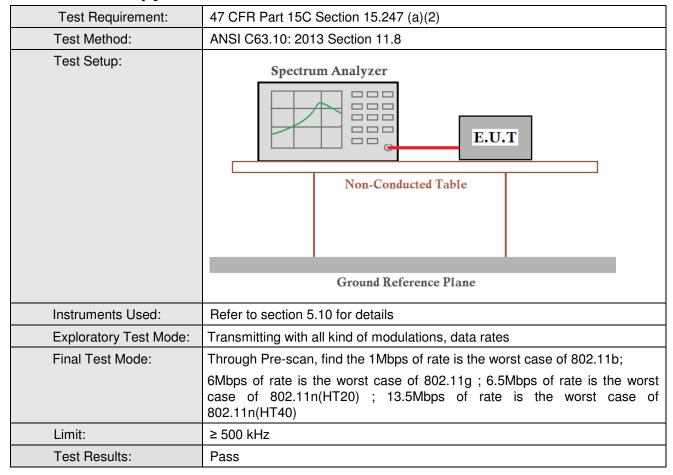
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6.4 6dB Occupy Bandwidth



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Measurement Data

	802.11b mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	10.110	≥500	Pass				
Middle	10.110	≥500	Pass				
Highest	10.140	≥500	Pass				
	802.11g mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	16.410	≥500	Pass				
Middle	16.410	≥500	Pass				
Highest	16.140	≥500	Pass				
	802.11n(HT20) mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	17.640	≥500	Pass				
Middle	17.670	≥500	Pass				
Highest	17.64	≥500	Pass				
	802.11n(HT40)mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	35.880	≥500	Pass				
Middle	36.240	≥500	Pass				
Highest	36.180	≥500	Pass				

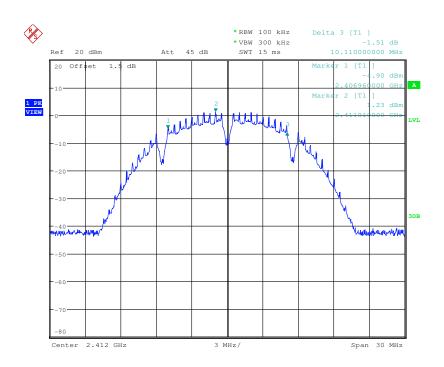


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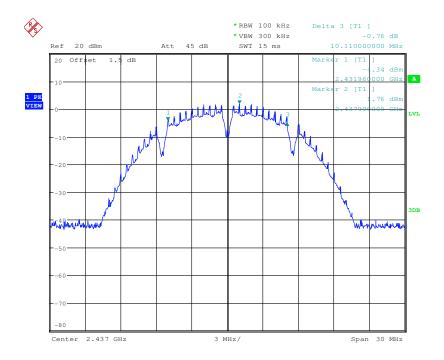
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





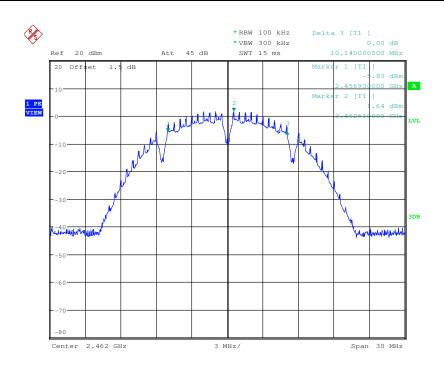


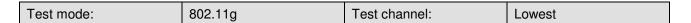


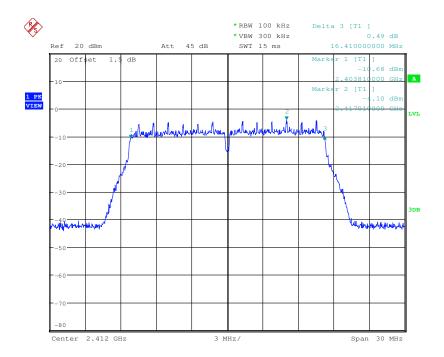
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Test mode: 802.11b Test channel: Highest





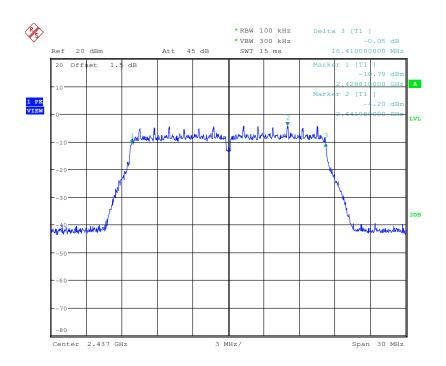




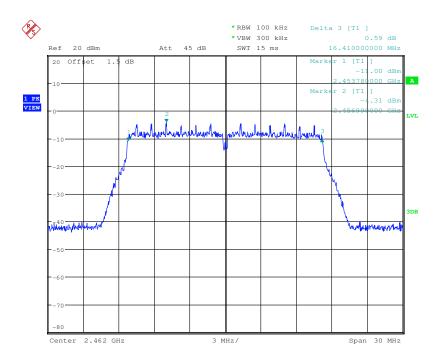
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Test mode: 802.11g Test channel: Middle





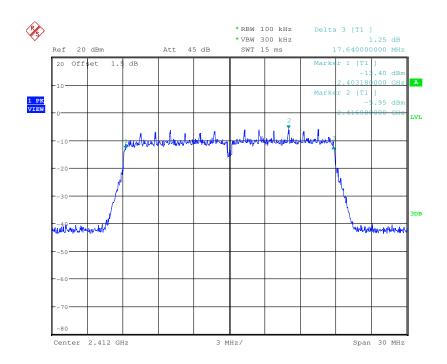




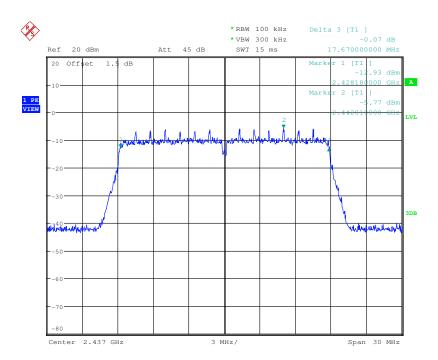
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Test mode: 802.11n(HT20) Test channel: Lowest





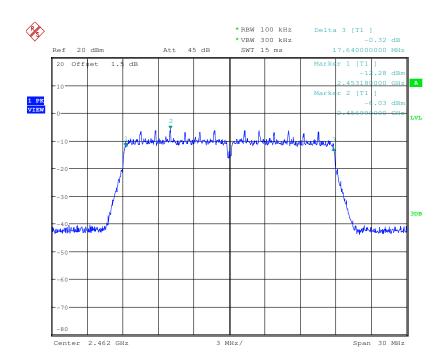




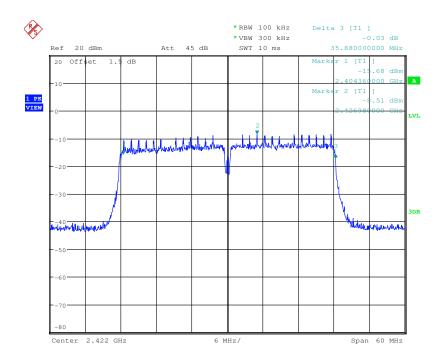
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Test mode: 802.11n(HT20) Test channel: Highest





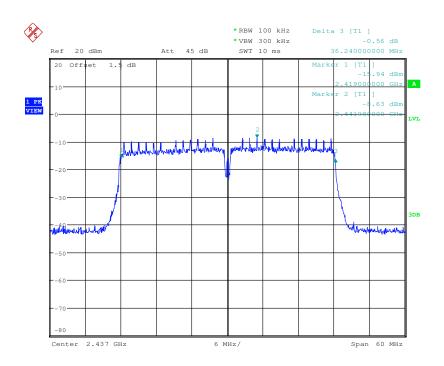




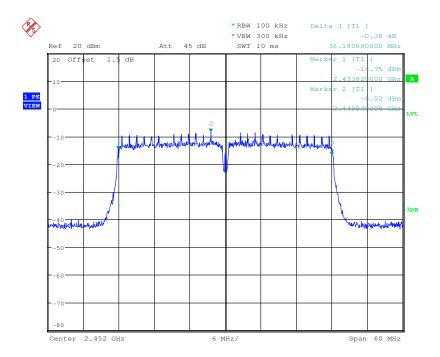
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Test mode: 802.11n(HT40) Test channel: Middle









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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)				
Test Method:	ANSI C63.10 :2013 Section 11.10.2				
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

	measurement bata						
	802.11b mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-12.34	≤8.00	Pass				
Middle	-12.76	≤8.00	Pass				
Highest	-13.00	≤8.00	Pass				
	802.11g mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-17.90	≤8.00	Pass				
Middle	-17.94	≤8.00	Pass				
Highest	-18.22	≤8.00	Pass				
	802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-20.22	≤8.00	Pass				
Middle	-19.23	≤8.00	Pass				
Highest	-18.27	≤8.00	Pass				
802.11n(HT40) mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-20.33	≤8.00	Pass				
Middle	-19.50	≤8.00	Pass				
Highest	-20.02	≤8.00	Pass				

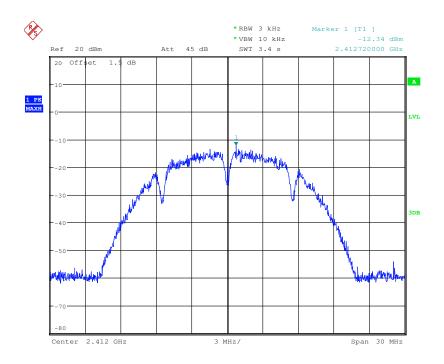


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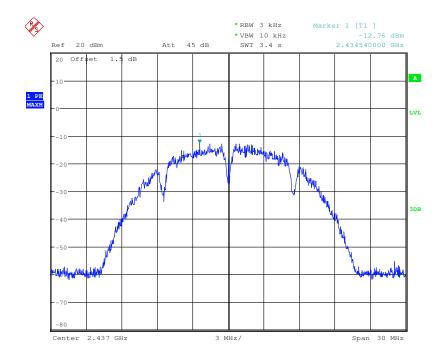
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

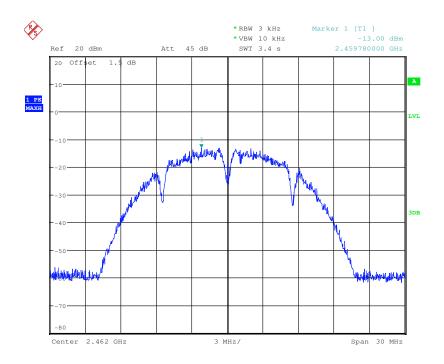




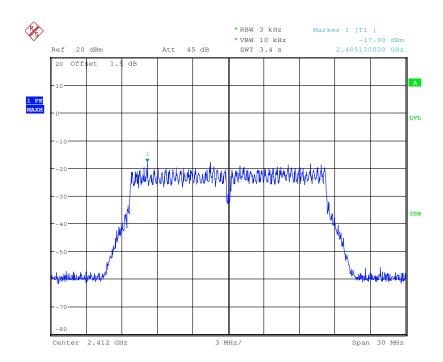
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Test mode: 802.11b Test channel: Highest





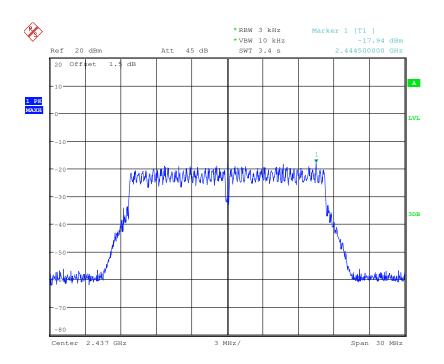




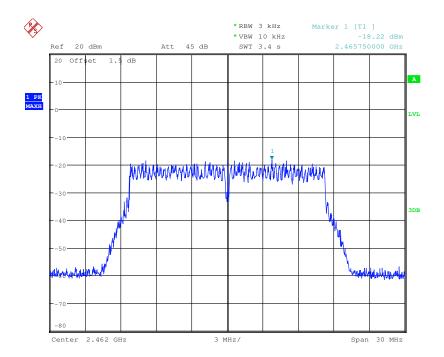
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Test mode: 802.11g Test channel: Middle





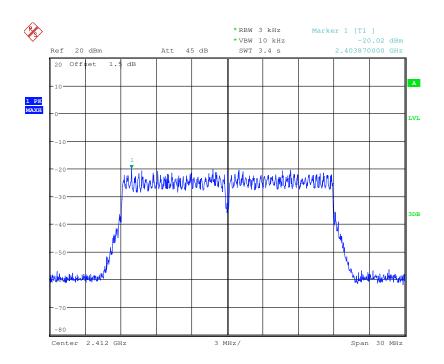




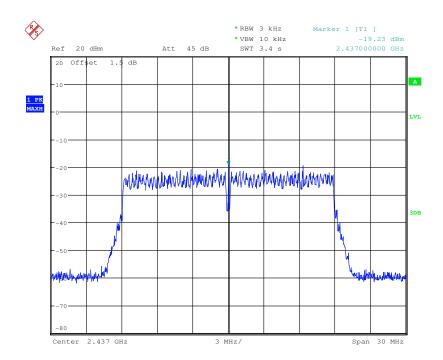
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Test mode: 802.11n(HT20) Test channel: Lowest





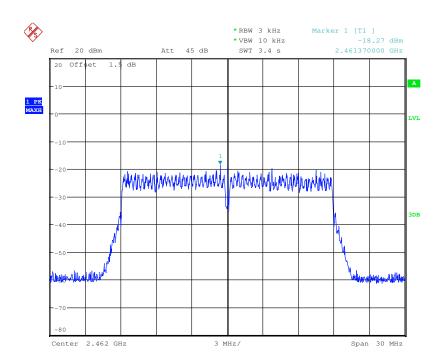




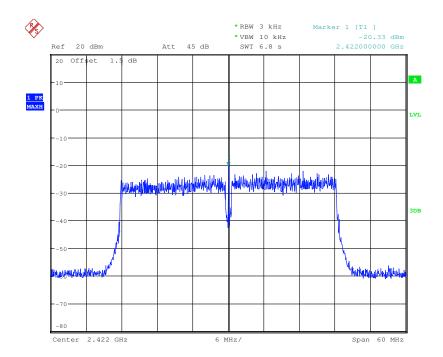
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Test mode: 802.11n(HT20) Test channel: Highest





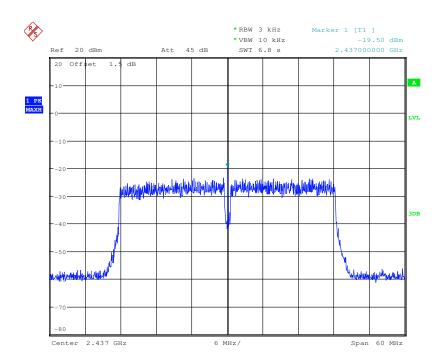




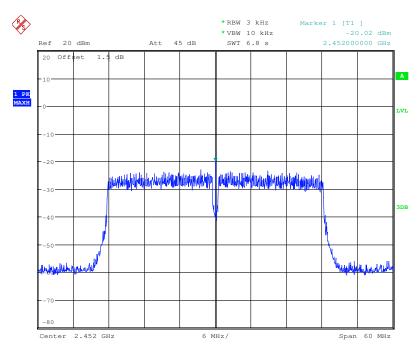
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Test mode: 802.11n(HT40) Test channel: Middle







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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: 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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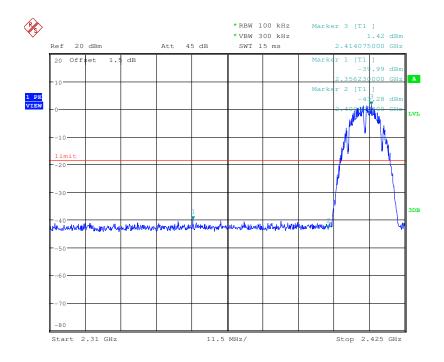


Report No.: SZEM160500405602

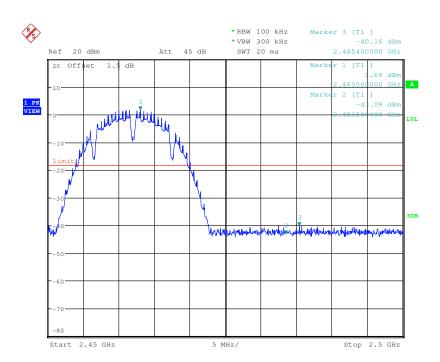
Page: 42 of 106

Test plot as follows:

Test mode: 802.11b Test channel: Lowest





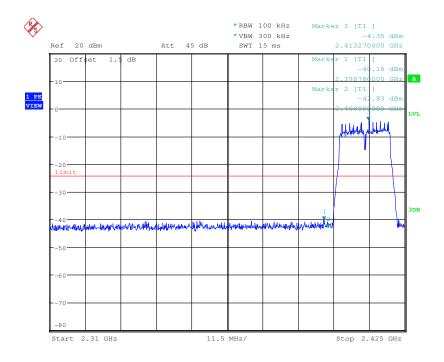




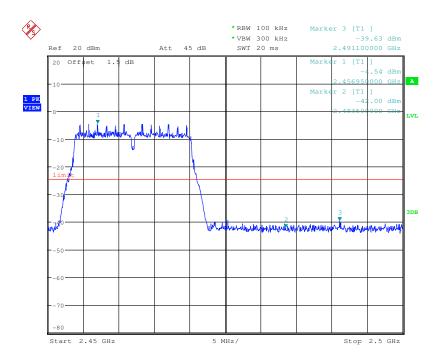
Report No.: SZEM160500405602

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Test mode: 802.11g Test channel: Lowest





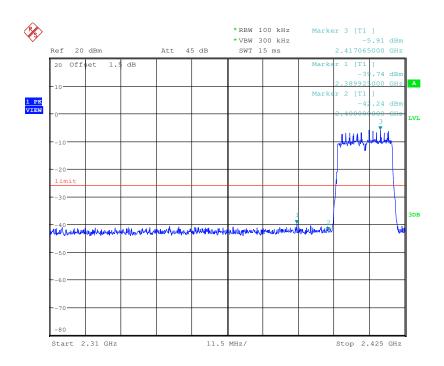




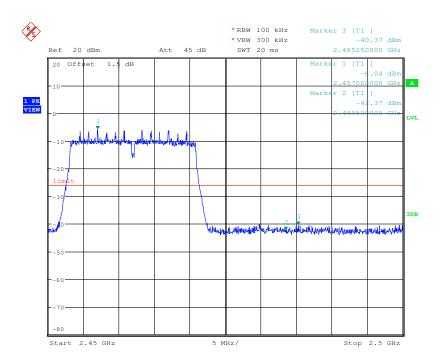
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Test mode: 802.11n(HT20) Test channel: Lowest





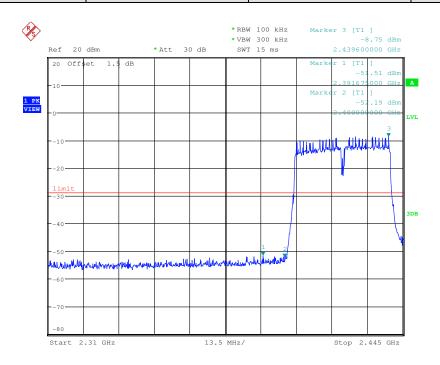




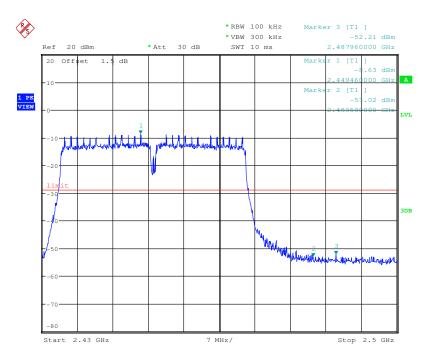
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Test mode: 802.11n(HT40) Test channel: Lowest









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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); 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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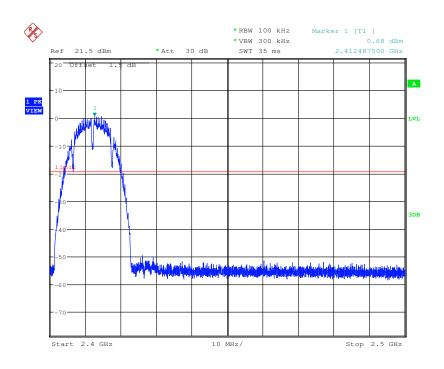


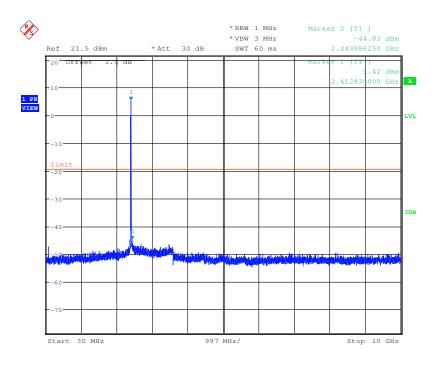
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Page: 47 of 106

Test plot as follows:

Test mode: 802.11b Test channel: Lowest

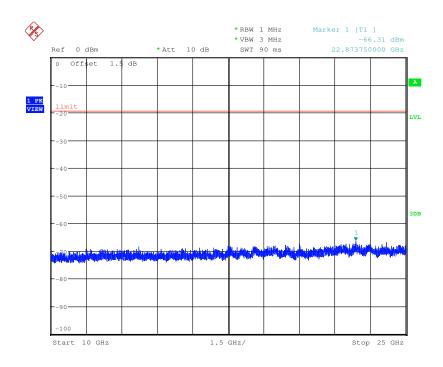


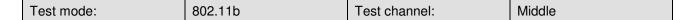


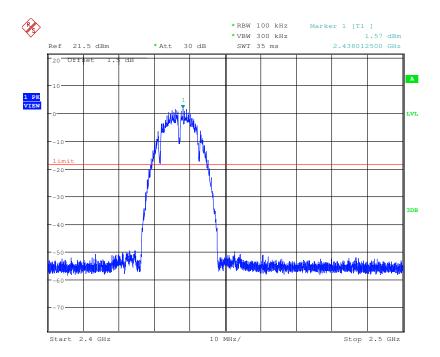


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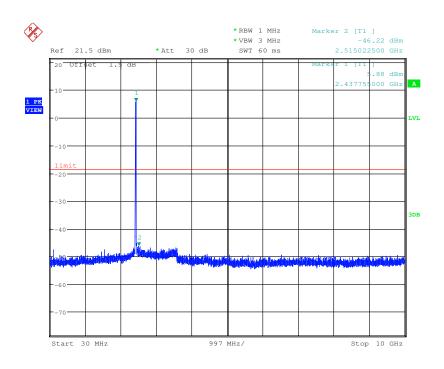


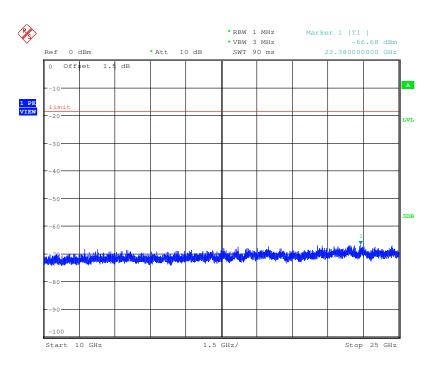
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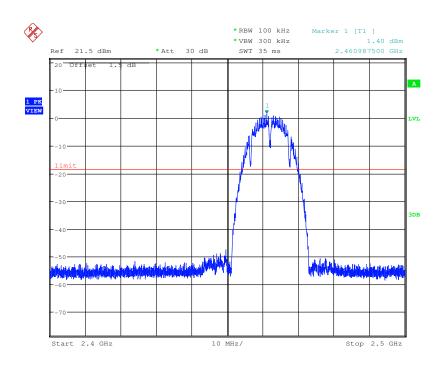
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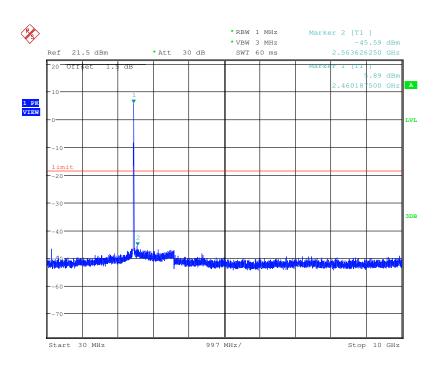


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Test mode: 802.11b Test channel: Highest

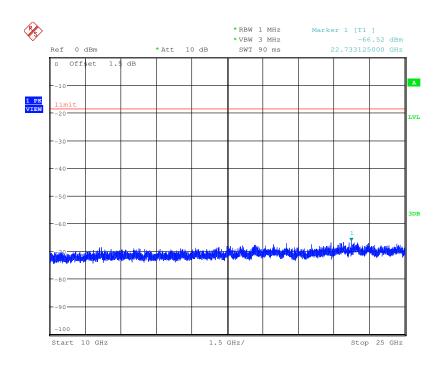




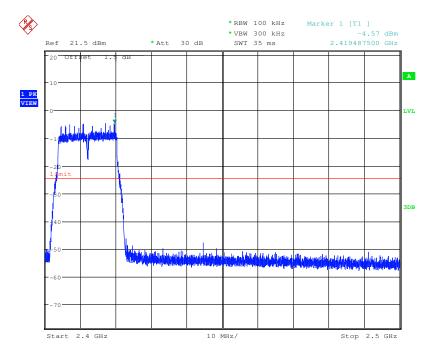


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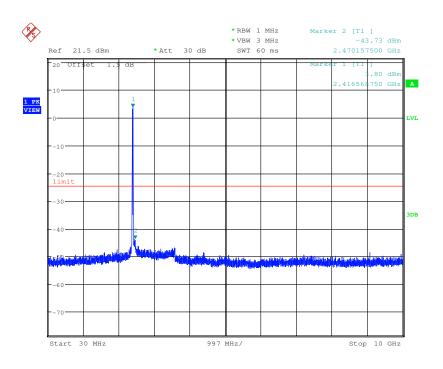


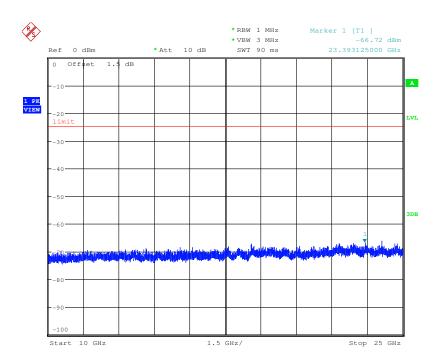
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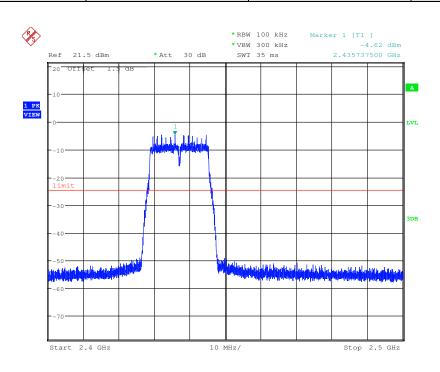
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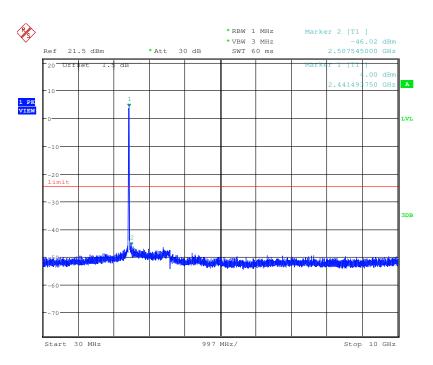


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Test mode: 802.11g Test channel: Middle



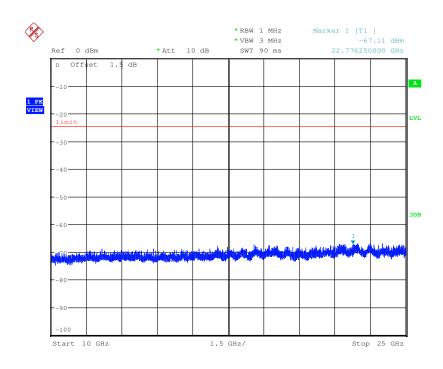


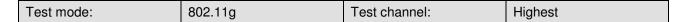
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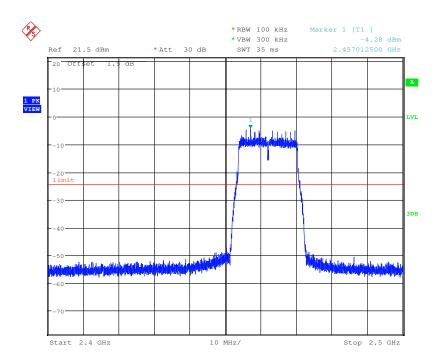


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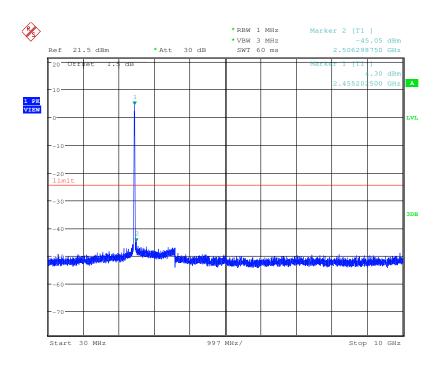


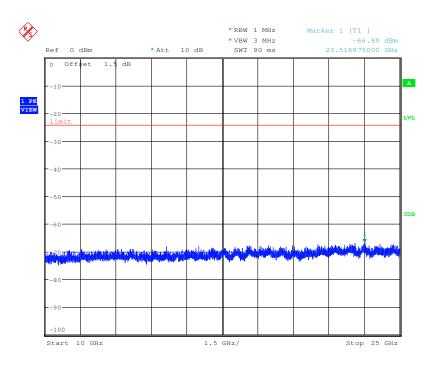
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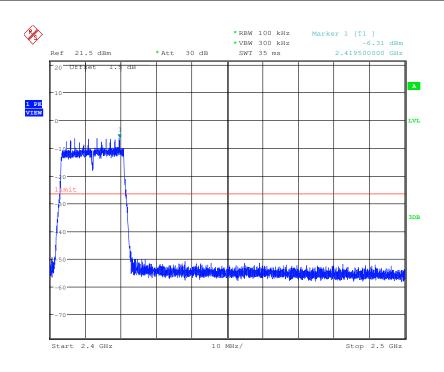
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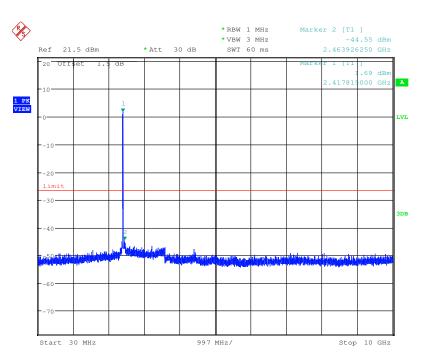


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Test mode: 802.11n(HT20) Test channel: Lowest



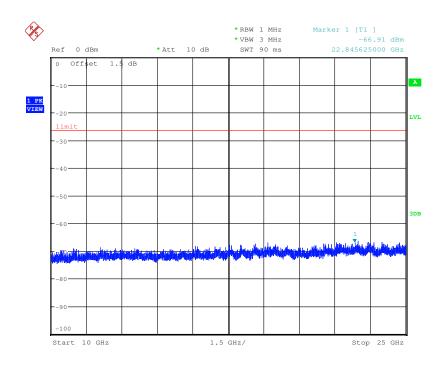


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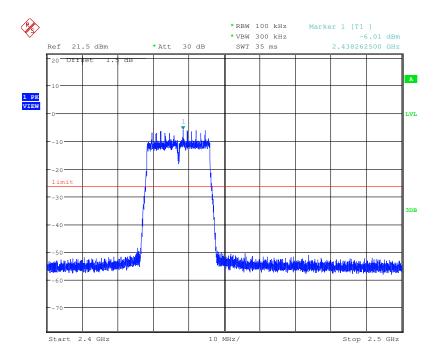


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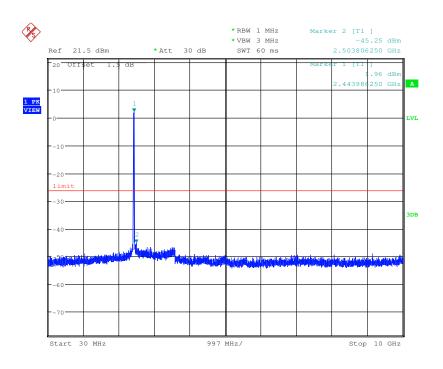


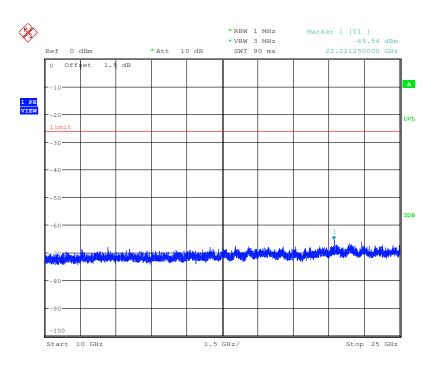
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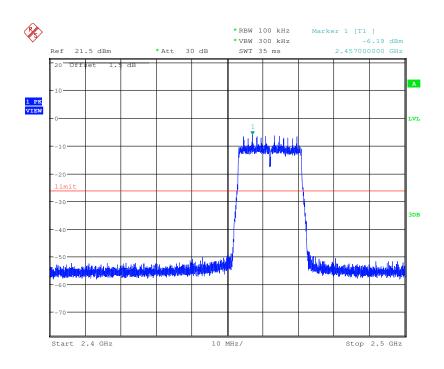
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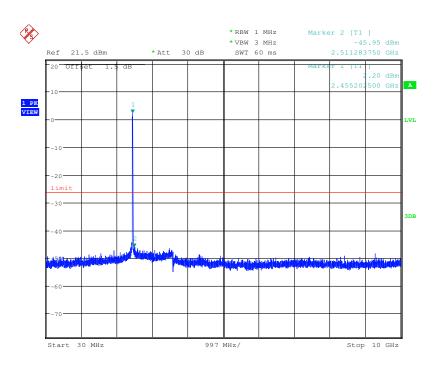


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Test mode: 802.11n(HT20) Test channel: Highest



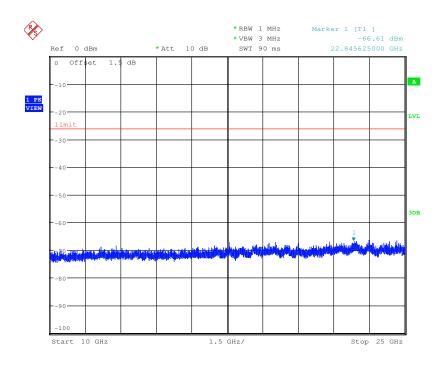


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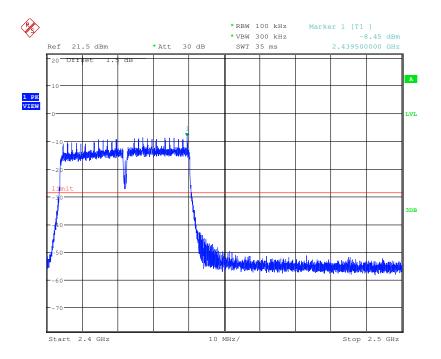


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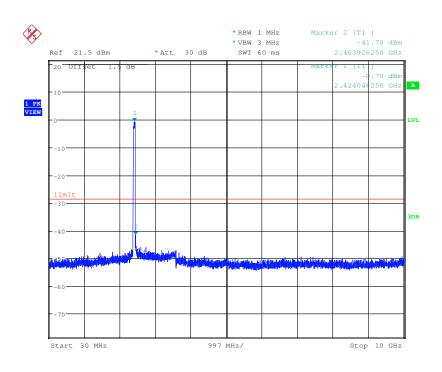


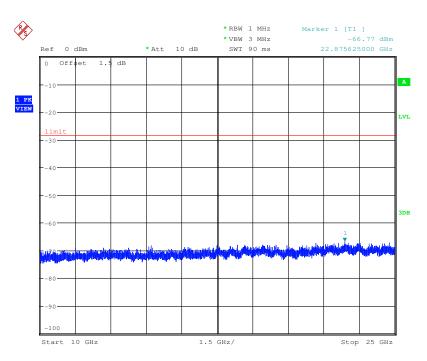
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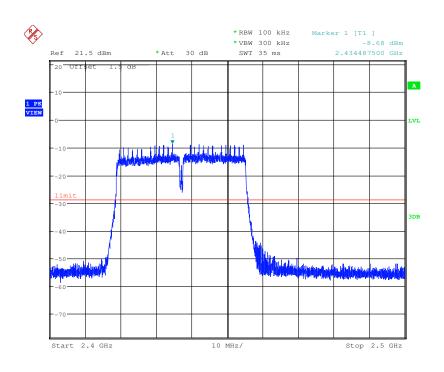
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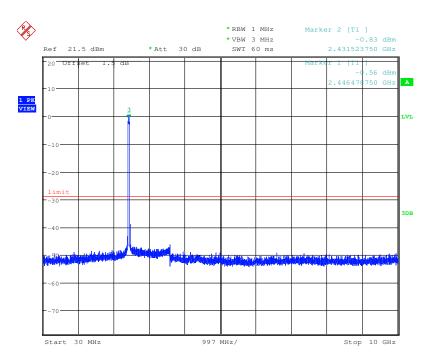


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Test mode: 802.11n(HT40) Test channel: Middle



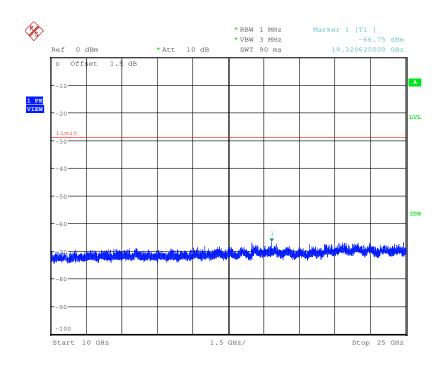


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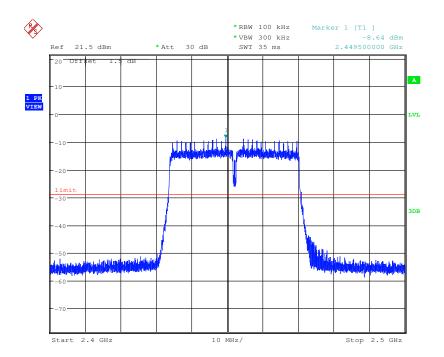


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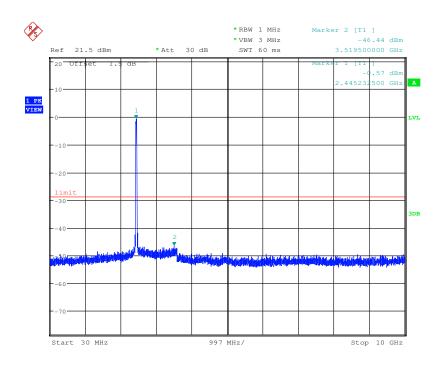


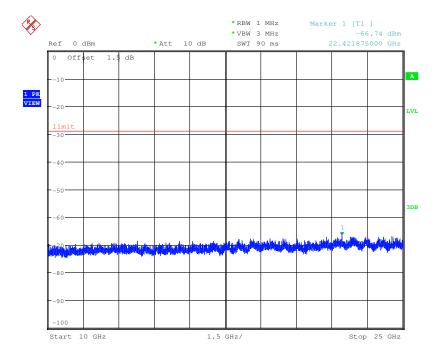




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Remark:

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 Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
	Measurement Distance: 10m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	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	29.9	40.0	Quasi-peak	10				
	88MHz-216MHz	44.7	43.5	Quasi-peak	10				
	216MHz-960MHz	60.3	46.0	Quasi-peak	10				
	960MHz-1GHz	100	54.0	Quasi-peak	10				
	Above 1GHz 500 54.0 Average 3								
	Note: 15.35(b), Unless of emissions is 20dB applicable to the ed emission level radi	above the maximuquipment under tes	um permitted st. This peak	average emi	ssion limit				

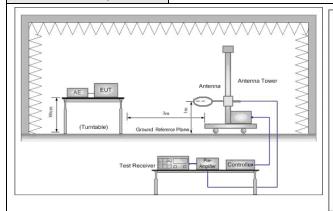
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Test Setup:



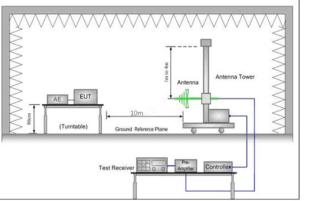


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

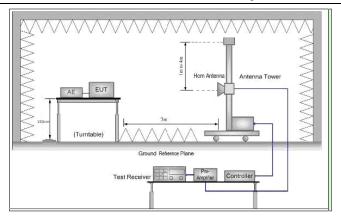


Figure 3. Above 1 GHz

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 and 10 meter semi-anechoic camber. 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 semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 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



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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 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.				
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel				
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.				
j. Repeat above procedures until all frequencies measured was complete.				
Transmitting with all kind of modulations, data rates.				
Transmitting mode				
Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case				
Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;				
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case				
of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)				
For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.				
Only the worst case is recorded in the report.				
Refer to section 5.10 for details				
Pass				

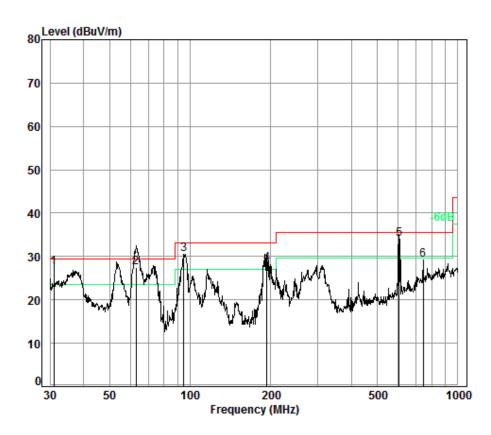


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6.8.1 Radiated emission below 1GHz

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



Condition: 10m Vertical

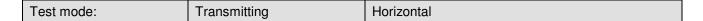
Job No. : 4056CR Test Mode: TX mode

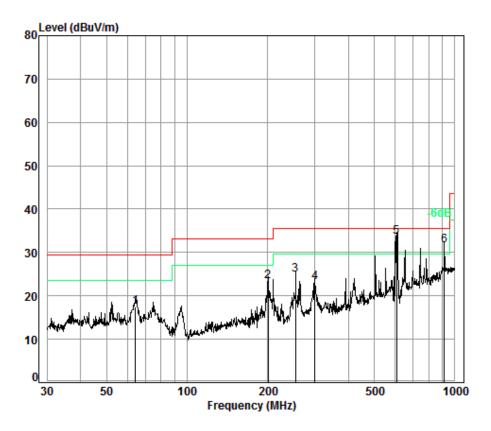
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.07	6.70	12.51	32.97	41.32	27.56	29.50	-1.94
2	62.87	7.00	11.41	32.93	41.98	27.46	29.50	-2.04
3	94.76	7.20	9.03	32.82	47.11	30.52	33.10	-2.58
4	193.77	7.57	9.60	32.70	43.78	28.25	33.10	-4.85
5 pp	603.54	8.91	18.78	32.60	38.91	34.00	35.60	-1.60
6	742.26	9.20	20.68	32.60	31.93	29.21	35.60	-6.39



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Condition: 10m Horizontal

Job No. : 4056CR Test Mode: TX mode

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	64.21	7.00	11.15	32.93	32.23	17.45	29.50	-12.05
2	200.69	7.60	9.31	32.70	39.20	23.41	33.10	-9.69
3	254.73	7.88	11.35	32.64	38.22	24.81	35.60	-10.79
4	300.37	8.05	12.67	32.60	34.92	23.04	35.60	-12.56
5 pp	605.66	8.91	18.83	32.60	38.45	33.59	35.60	-2.01
6	912.86	9.50	22.40	32.50	32.17	31.57	35.60	-4.03



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6.8.2 Transmitter emission above 1GHz

Test mode:	802.1	1b	Test ch	Test channel: Lowest Remark:		Remark		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.10	47.14	74.00	-26.86	Vertical
4824.000	34.12	8.90	38.75	49.05	53.32	74.00	-20.68	Vertical
5999.562	34.70	10.56	38.96	45.62	51.92	74.00	-22.08	Vertical
7236.000	35.58	10.69	37.63	42.43	51.07	74.00	-22.93	Vertical
9648.000	37.10	12.52	36.29	35.21	48.54	74.00	-25.46	Vertical
12603.270	37.90	14.44	37.75	38.18	52.77	74.00	-21.23	Vertical
3610.398	32.14	7.67	38.41	45.52	46.92	74.00	-27.08	Horizontal
4824.000	34.12	8.90	38.75	49.49	53.76	74.00	-20.24	Horizontal
5982.226	34.66	10.51	38.96	45.08	51.29	74.00	-22.71	Horizontal
7236.000	35.58	10.69	37.63	41.16	49.80	74.00	-24.20	Horizontal
9648.000	37.10	12.52	36.29	35.58	48.91	74.00	-25.09	Horizontal
12639.790	37.92	14.55	37.79	38.95	53.63	74.00	-20.37	Horizontal

Test mode:	802.1	1b	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3652.432	32.31	7.69	38.43	45.54	47.11	74.00	-26.89	Vertical
4874.000	34.17	8.97	38.76	49.24	53.62	74.00	-20.38	Vertical
6069.413	34.74	10.47	38.87	44.87	51.21	74.00	-22.79	Vertical
7311.000	35.54	10.72	37.59	44.11	52.78	74.00	-21.22	Vertical
9748.000	37.10	12.58	36.16	38.73	52.25	74.00	-21.75	Vertical
12530.530	37.83	14.24	37.68	39.12	53.51	74.00	-20.49	Vertical
3694.956	32.49	7.70	38.44	44.12	45.87	74.00	-28.13	Horizontal
4874.000	34.17	8.97	38.76	48.41	52.79	74.00	-21.21	Horizontal
5999.562	34.70	10.56	38.96	45.26	51.56	74.00	-22.44	Horizontal
7311.000	35.54	10.72	37.59	44.24	52.91	74.00	-21.09	Horizontal
9748.000	37.10	12.58	36.16	38.54	52.06	74.00	-21.94	Horizontal
12603.270	37.90	14.44	37.75	38.67	53.26	74.00	-20.74	Horizontal



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Test mode:	802.1	1b	Test ch	annel:	Highest	hest Remark			Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	(d	Limit ΒμV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	44.86	46.90		74.00	-27.10	Vertical
4924.000	34.22	9.04	38.77	48.62	53.11		74.00	-20.89	Vertical
5999.562	34.70	10.56	38.96	45.54	51.84		74.00	-22.16	Vertical
7386.000	35.51	10.75	37.56	43.75	52.45		74.00	-21.55	Vertical
9848.000	37.15	12.63	36.03	39.57	53.32		74.00	-20.68	Vertical
12566.850	37.87	14.34	37.72	38.18	52.67		74.00	-21.33	Vertical
3825.521	32.93	7.75	38.49	44.68	46.87		74.00	-27.13	Horizontal
4924.000	34.22	9.04	38.77	47.75	52.24		74.00	-21.76	Horizontal
6034.386	34.72	10.52	38.91	45.66	51.99		74.00	-22.01	Horizontal
7386.000	35.51	10.75	37.56	43.80	52.50		74.00	-21.50	Horizontal
9848.000	37.15	12.63	36.03	39.50	53.25		74.00	-20.75	Horizontal
12566.850	37.87	14.34	37.72	37.68	52.17		74.00	-21.83	Horizontal

Test mode:	802.1	1g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
3803.444	32.90	7.74	38.49	46.04	48.19	74.00	-25.81	Vertical
4824.000	34.12	8.90	38.75	48.38	52.65	74.00	-21.35	Vertical
5913.378	34.49	10.32	38.95	45.17	51.03	74.00	-22.97	Vertical
7236.000	35.58	10.69	37.63	39.56	48.20	74.00	-25.80	Vertical
9648.000	37.10	12.52	36.29	33.28	46.61	74.00	-27.39	Vertical
12173.120	37.69	14.42	37.34	36.85	51.62	74.00	-22.38	Vertical
3215.762	31.80	7.56	38.24	47.80	48.92	74.00	-25.08	Horizontal
4824.000	34.12	8.90	38.75	47.42	51.69	74.00	-22.31	Horizontal
5964.939	34.61	10.46	38.95	44.73	50.85	74.00	-23.15	Horizontal
7236.000	35.58	10.69	37.63	40.54	49.18	74.00	-24.82	Horizontal
9648.000	37.10	12.52	36.29	33.81	47.14	74.00	-26.86	Horizontal
12085.370	37.64	14.49	37.25	37.36	52.24	74.00	-21.76	Horizontal



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Test mode:	802.1	1g	Test ch	annel:	Middle	Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	imit μV/m)	Over Limit (dB)	Polarization
3819.990	32.92	7.75	38.49	44.91	47.09	74.00	-26.91	Vertical
4874.000	34.17	8.97	38.76	46.54	50.92	74.00	-23.08	Vertical
5982.226	34.66	10.51	38.96	44.67	50.88	74.00	-23.12	Vertical
7311.000	35.54	10.72	37.59	41.10	49.77	74.00	-24.23	Vertical
9748.000	37.10	12.58	36.16	37.00	50.52	74.00	-23.48	Vertical
12190.740	37.70	14.40	37.36	35.94	50.68	74.00	-23.32	Vertical
3243.802	31.80	7.57	38.25	48.36	49.48	74.00	-24.52	Horizontal
4874.000	34.17	8.97	38.76	48.21	52.59	74.00	-21.41	Horizontal
5999.562	34.70	10.56	38.96	45.15	51.45	74.00	-22.55	Horizontal
7311.000	35.54	10.72	37.59	41.44	50.11	74.00	-23.89	Horizontal
9748.000	37.10	12.58	36.16	37.79	51.31	74.00	-22.69	Horizontal
12476.260	37.78	14.17	37.63	37.42	51.74	74.00	-22.26	Horizontal

Test mode: 802.11g		1g	Test channel:		Highest	Remark	::	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3792.453	32.87	7.74	38.48	44.47	46.60	74.00	-27.40	Vertical
4924.000	34.22	9.04	38.77	48.40	52.89	74.00	-21.11	Vertical
6043.124	34.72	10.50	38.90	45.29	51.61	74.00	-22.39	Vertical
7386.000	35.51	10.75	37.56	38.51	47.21	74.00	-26.79	Vertical
9848.000	37.15	12.63	36.03	37.31	51.06	74.00	-22.94	Vertical
12208.390	37.70	14.39	37.37	36.35	51.07	74.00	-22.93	Vertical
3281.568	31.80	7.58	38.27	46.75	47.86	74.00	-26.14	Horizontal
4924.000	34.22	9.04	38.77	49.05	53.54	74.00	-20.46	Horizontal
5896.291	34.44	10.27	38.94	45.39	51.16	74.00	-22.84	Horizontal
7386.000	35.51	10.75	37.56	38.77	47.47	74.00	-26.53	Horizontal
9848.000	37.15	12.63	36.03	38.13	51.88	74.00	-22.12	Horizontal
12548.680	37.85	14.29	37.70	38.41	52.85	74.00	-21.15	Horizontal



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Test mode:	802.1	1n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3792.453	32.87	7.74	38.48	45.43	47.56	74.00	-26.44	Vertical
4824.000	34.12	8.90	38.75	46.14	50.41	74.00	-23.59	Vertical
6034.386	34.72	10.52	38.91	45.13	51.46	74.00	-22.54	Vertical
7236.000	35.58	10.69	37.63	45.23	53.87	74.00	-20.13	Vertical
9648.000	37.10	12.52	36.29	35.34	48.67	74.00	-25.33	Vertical
12603.270	37.90	14.44	37.75	37.56	52.15	74.00	-21.85	Vertical
3803.444	32.90	7.74	38.49	45.34	47.49	74.00	-26.51	Horizontal
4824.000	34.12	8.90	38.75	45.38	49.65	74.00	-24.35	Horizontal
6069.413	34.74	10.47	38.87	46.35	52.69	74.00	-21.31	Horizontal
7236.000	35.58	10.69	37.63	41.12	49.76	74.00	-24.24	Horizontal
9648.000	37.10	12.52	36.29	35.08	48.41	74.00	-25.59	Horizontal
12603.270	37.90	14.44	37.75	37.74	52.33	74.00	-21.67	Horizontal

Test mode:	802.	11n(HT20)	Test ch	annel:	Middle	Remark	: :	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3870.060	32.97	7.77	38.51	45.18	47.41	74.00	-26.59	Vertical
4874.000	34.17	8.97	38.76	46.22	50.60	74.00	-23.40	Vertical
6229.564	34.80	10.26	38.66	46.30	52.70	74.00	-21.30	Vertical
7311.000	35.54	10.72	37.59	45.32	53.99	74.00	-20.01	Vertical
9748.000	37.10	12.58	36.16	38.73	52.25	74.00	-21.75	Vertical
12603.270	37.90	14.44	37.75	37.85	52.44	74.00	-21.56	Vertical
3892.524	32.99	7.77	38.52	46.10	48.34	74.00	-25.66	Horizontal
4874.000	34.17	8.97	38.76	45.54	49.92	74.00	-24.08	Horizontal
6087.002	34.74	10.45	38.85	45.86	52.20	74.00	-21.80	Horizontal
7311.000	35.54	10.72	37.59	44.03	52.70	74.00	-21.30	Horizontal
9748.000	37.10	12.58	36.16	39.76	53.28	74.00	-20.72	Horizontal
12676.420	37.94	14.65	37.82	38.09	52.86	74.00	-21.14	Horizontal

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Test mode:	802.1	1n(HT20)	Test ch	annel:	Highest	Rem	ark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ı		Over Limit (dB)	Polarization
3825.521	32.93	7.75	38.49	46.36	48.55	74.	00	-25.45	Vertical
4924.000	34.22	9.04	38.77	48.33	52.82	74.	00	-21.18	Vertical
5879.252	34.40	10.22	38.94	46.21	51.89	74.	00	-22.11	Vertical
7386.000	35.51	10.75	37.56	44.99	53.69	74.	00	-20.31	Vertical
9848.000	37.15	12.63	36.03	39.64	53.39	74.	00	-20.61	Vertical
12603.270	37.90	14.44	37.75	38.23	52.82	74.	00	-21.18	Vertical
3814.467	32.91	7.75	38.49	45.25	47.42	74.	00	-26.58	Horizontal
4924.000	34.22	9.04	38.77	46.94	51.43	74.	00	-22.57	Horizontal
6140.076	34.77	10.38	38.78	45.46	51.83	74.	00	-22.17	Horizontal
7386.000	35.51	10.75	37.56	41.41	50.11	74.	00	-23.89	Horizontal
9848.000	37.15	12.63	36.03	39.58	53.33	74.	00	-20.67	Horizontal
12603.270	37.90	14.44	37.75	38.48	53.07	74.	00	-20.93	Horizontal

Test mode:	802.1	1n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3814.467	32.91	7.75	38.49	45.25	47.42	74.00	-26.58	Vertical
4844.000	34.14	8.92	38.76	46.21	50.51	74.00	-23.49	Vertical
6087.002	34.74	10.45	38.85	45.95	52.29	74.00	-21.71	Vertical
7266.000	35.57	10.70	37.61	41.75	50.41	74.00	-23.59	Vertical
9688.000	37.10	12.54	36.24	36.40	49.80	74.00	-24.20	Vertical
12566.850	37.87	14.34	37.72	37.35	51.84	74.00	-22.16	Vertical
3915.118	33.02	7.78	38.53	45.30	47.57	74.00	-26.43	Horizontal
4844.000	34.14	8.92	38.76	45.37	49.67	74.00	-24.33	Horizontal
5982.226	34.66	10.51	38.96	46.62	52.83	74.00	-21.17	Horizontal
7266.000	35.57	10.70	37.61	41.97	50.63	74.00	-23.37	Horizontal
9688.000	37.10	12.54	36.24	36.69	50.09	74.00	-23.91	Horizontal
12676.420	37.94	14.65	37.82	37.97	52.74	74.00	-21.26	Horizontal

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Test mode:	802.1	1n(HT40)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3915.118	33.02	7.78	38.53	45.06	47.33	74.00	-26.67	Vertical
4874.000	34.17	8.97	38.76	45.79	50.17	74.00	-23.83	Vertical
5913.378	34.49	10.32	38.95	46.71	52.57	74.00	-21.43	Vertical
7311.000	35.54	10.72	37.59	41.66	50.33	74.00	-23.67	Vertical
9748.000	37.10	12.58	36.16	38.20	51.72	74.00	-22.28	Vertical
12530.530	37.83	14.24	37.68	37.59	51.98	74.00	-22.02	Vertical
3983.689	33.08	7.80	38.55	45.85	48.18	74.00	-25.82	Horizontal
4874.000	34.17	8.97	38.76	45.51	49.89	74.00	-24.11	Horizontal
5964.939	34.61	10.46	38.95	46.57	52.69	74.00	-21.31	Horizontal
7311.000	35.54	10.72	37.59	42.11	50.78	74.00	-23.22	Horizontal
9748.000	37.10	12.58	36.16	37.85	51.37	74.00	-22.63	Horizontal
12530.530	37.83	14.24	37.68	38.44	52.83	74.00	-21.17	Horizontal

Test mode:	802.1	1n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3926.464	33.03	7.78	38.53	45.69	47.97	74.00	-26.03	Vertical
4904.000	34.21	9.01	38.77	46.33	50.78	74.00	-23.22	Vertical
6140.076	34.77	10.38	38.78	46.41	52.78	74.00	-21.22	Vertical
7356.000	35.52	10.74	37.57	42.32	51.01	74.00	-22.99	Vertical
9808.000	37.11	12.61	36.08	38.18	51.82	74.00	-22.18	Vertical
12530.530	37.83	14.24	37.68	37.41	51.80	74.00	-22.20	Vertical
3705.664	32.53	7.71	38.45	45.01	46.80	74.00	-27.20	Horizontal
4904.000	34.21	9.01	38.77	46.18	50.63	74.00	-23.37	Horizontal
6122.333	34.76	10.40	38.80	45.24	51.60	74.00	-22.40	Horizontal
7356.000	35.52	10.74	37.57	42.55	51.24	74.00	-22.76	Horizontal
9808.000	37.11	12.61	36.08	38.42	52.06	74.00	-21.94	Horizontal
12530.530	37.83	14.24	37.68	37.87	52.26	74.00	-21.74	Horizontal

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Remark:

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

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

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

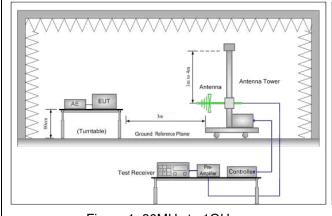


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	5.209 and 15.205								
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-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								
	Above IGHZ	74.0 Peak Value								
Test Setup:										



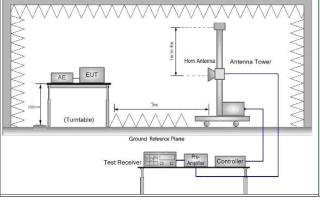


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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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 camber. 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 semi-anechoic camber. 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Transmitting with all kind of modulations, data rates of 802.11b; 6Mbps of rate is the worst case of 802.11n		
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. 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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 802.11p; 6Mbps 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.	Test Procedure:	meters above the ground at a 3 meter semi-anechoic camber. 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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 802.11b; 6Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report.		meters above the ground at a 3 meter semi-anechoic camber. 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 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Pretest the 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 802.11p; 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.		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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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.		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Pretest the 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. 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
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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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		
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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		h. Test the EUT in the lowest channel , the Highest channel
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Pretest the 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		for Transmitting mode, And found the X axis positioning which it is
Final Test Mode: Pretest the 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		
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	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
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	Final Test Mode:	Pretest the EUT at Transmitting mode
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		Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
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
Instruments Used: Refer to section 5.10 for details		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.
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass

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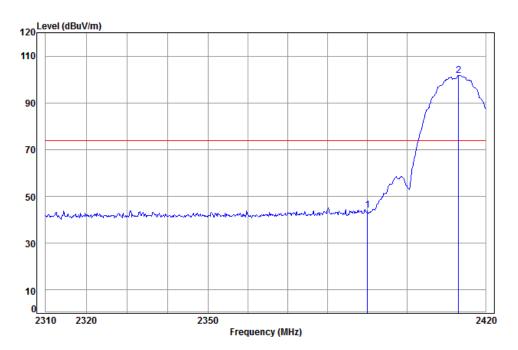


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Test plot as follows:

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



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2412 Band edge

: B

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dВ dB/m 2390.000 5.34 28.57 38.11 48.19 43.99 74.00 -30.01 2 pp 2413.142 5.36 28.66 38.11 105.87 101.78 74.00 27.78

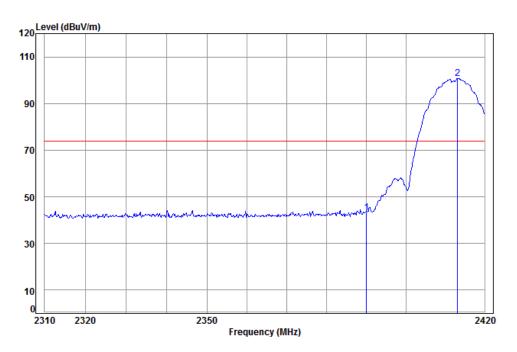
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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2412 Band edge

: B

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB/m dB 38.11 47.47 43.27 2390.000 5.34 28.57 74.00 -30.73 2 pp 2413.142 5.36 28.66 38.11 104.90 100.81 74.00 26.81

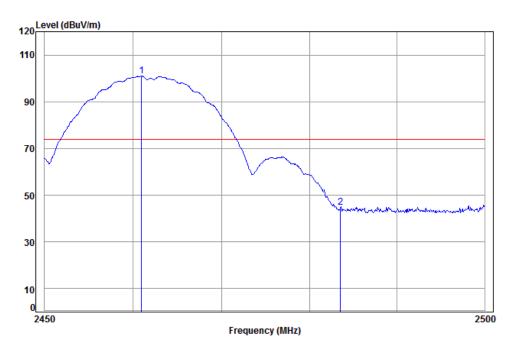
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2462 Band edge

: B

Ant Preamp Read limit Over Cable Loss Factor Factor Freq Level Level Line Limit MHz dB dBuV dBuV/m dBuV/m dB/m dB 1 pp 2460.914 5.39 28.88 38.12 104.82 100.97 74.00 26.97 5.41 28.98 38.12 48.50 44.77 74.00 -29.23 2483.500

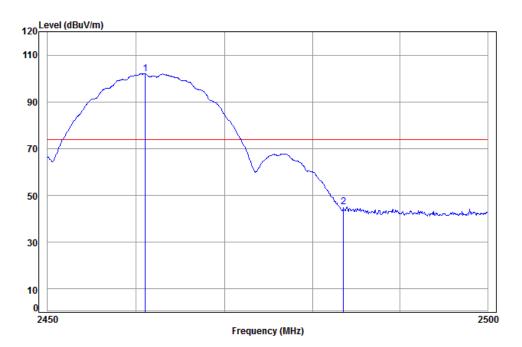
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2462 Band edge

: B

		Freq						Limit Line	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
		2461.013							
2		2483.500	5.41	28.98	38.12	48.83	45.10	/4.00	-28.90

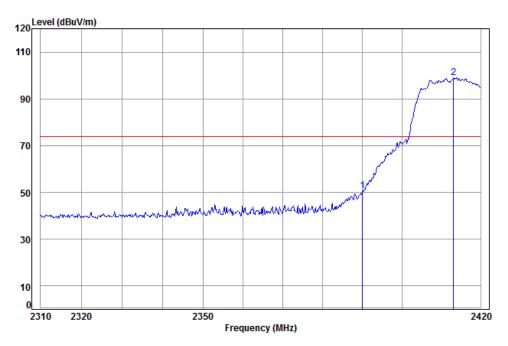
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2412 Band edge

: 6

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dВ MHz dB/m dB 2390.000 5.34 28.57 38.11 54.91 50.71 74.00 -23.29 2 pp 2413.142 5.36 28.66 38.11 103.04 98.95 74.00 24.95

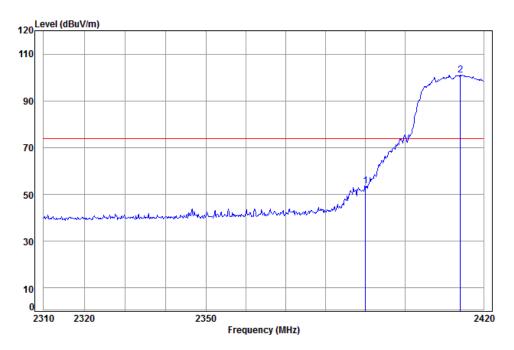
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2412 Band edge

: G

	Freq						Limit Line	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
pp	2390.000 2414.041							

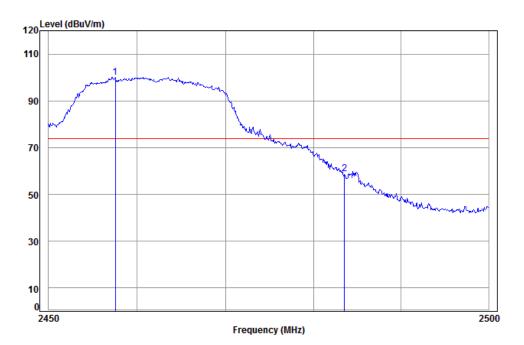
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2462 Band edge

:

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit MHz dB dBuV dBuV/m dBuV/m dB/m 1 pp 2457.535 5.39 28.87 38.12 103.91 100.05 2483.500 5.41 28.98 38.12 62.58 58.85 74.00 -15.15

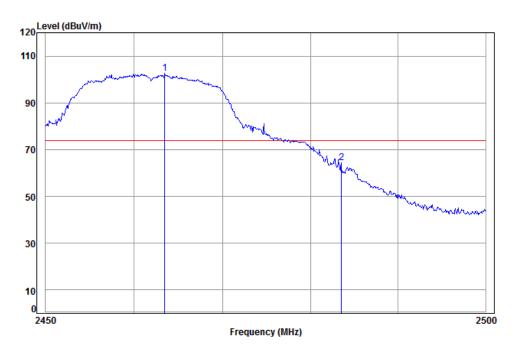
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2462 Band edge

: G

	Freq						Limit Line	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2463.450 2483.500							

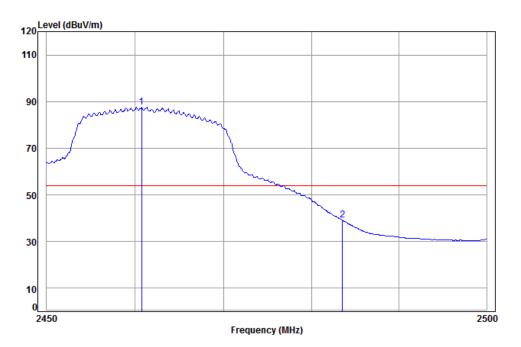
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Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2462 Band edge

: 0

1

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
pp	2460.715 2483.500							

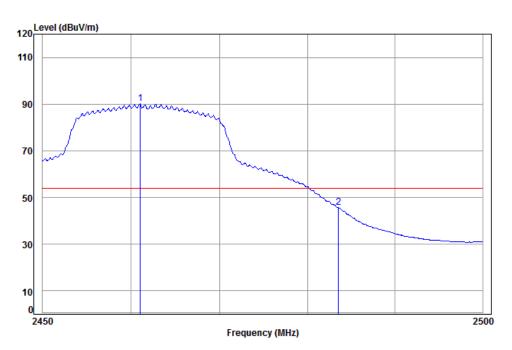
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Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2462 Band edge

: G

	Limit Line						Freq
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz
							1 pp 2461.013 2 2483.500

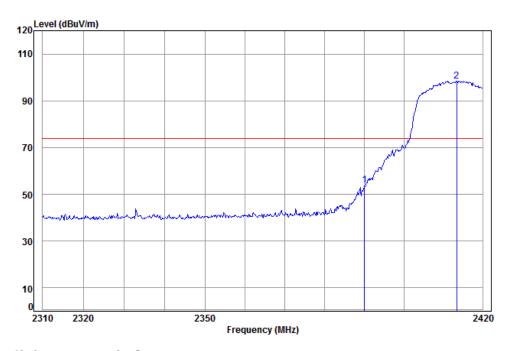
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2412 Band edge

: N20

Ant Preamp Cable Read Limit Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 5.34 38.11 58.07 2390,000 28.57 53.87 74.00 -20.13 5.36 28.66 38.11 102.65 98.56 74.00 24.56 2 pp 2413.367

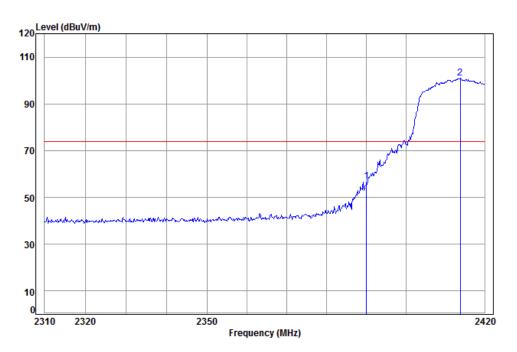
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2412 Band edge

: N20

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dВ MHz dB/m dB 2390.000 5.34 28.57 38.11 61.11 56.91 74.00 -17.09 2 pp 2413.816 5.36 28.66 38.11 105.13 101.04 74.00 27.04

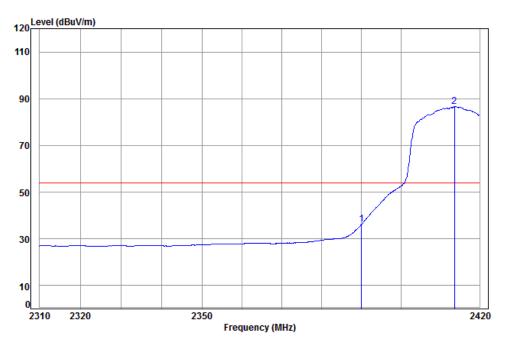
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2412 Band edge

: N20

Ant Preamp Cable Read limit Over Loss Factor Factor Limit Freq Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2390.000 5.34 28.57 38.11 40.43 36.23 54.00 -17.77 5.36 28.66 38.11 90.72 86.63 54.00 32.63 2 pp 2413.592

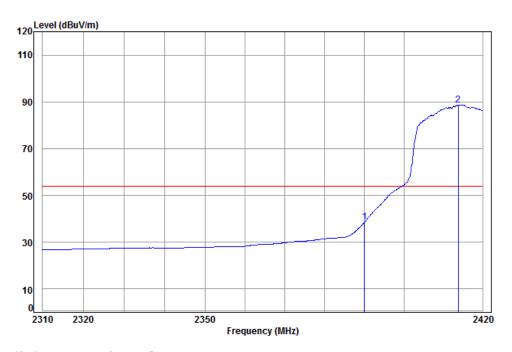
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2412 Band edge

: N20

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dВ MHz dB/m 2390.000 5.34 28.57 38.11 42.80 38.60 54.00 -15.40 2 pp 2413.816 5.36 28.66 38.11 92.73 88.64 54.00 34.64

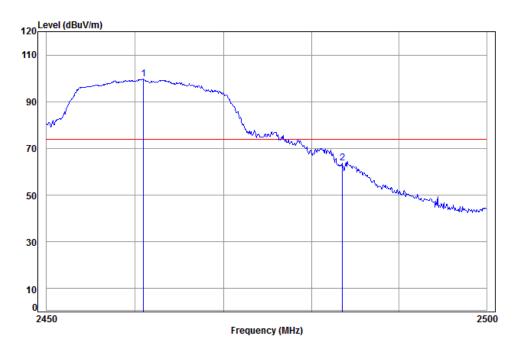
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2462 Band edge

: N20

Ant Preamp Cable Read limit Over Loss Factor Factor Limit Freq Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1 pp 2460.914 5.39 28.88 38.12 103.53 99.68 74.00 25.68 5.41 28.98 38.12 67.44 63.71 74.00 -10.29 2483.500

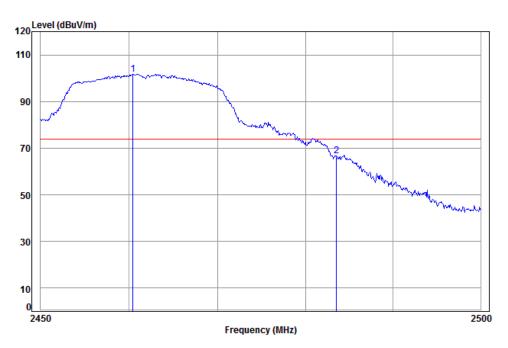
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2462 Band edge

: N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB/m dB 1 pp 2460.416 5.39 28.88 38.12 105.58 101.73 74.00 27.73 5.41 28.98 38.12 70.55 66.82 74.00 -7.18

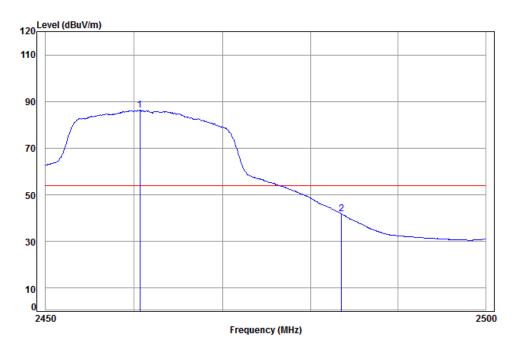
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Average Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2462 Band edge

: N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 1 pp 2460.615 5.39 28.88 38.12 90.18 86.33 54.00 32.33 5.41 28.98 38.12 45.67 41.94 54.00 -12.06

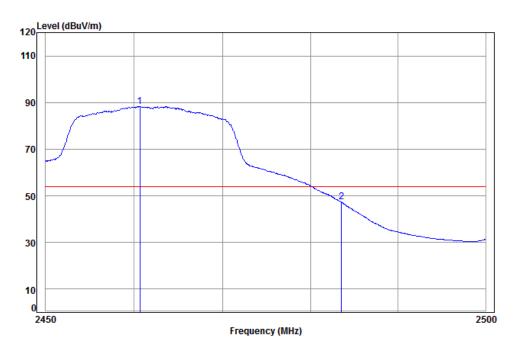
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2462 Band edge

: N20

		Preamp Factor			Freq
dBuV	dBuV	dB	dB/m	dB	MHz
					1 pp 2460.615 2 2483.500

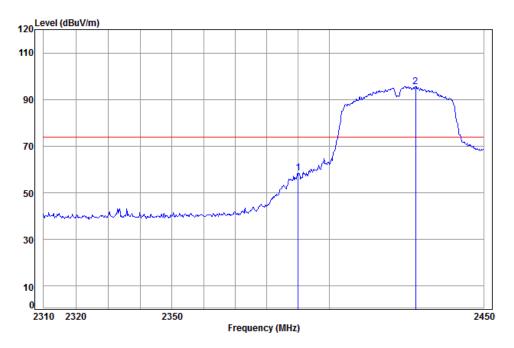
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2422 Band edge

: N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB/m dB 2390.000 5.34 28.57 38.11 62.60 58.40 74.00 -15.60 5.37 28.73 38.11 99.64 95.63 74.00 21.63 2 pp 2427.900

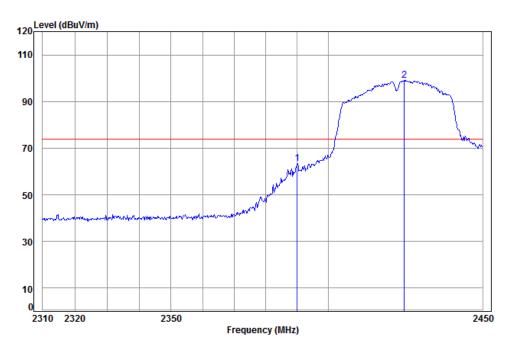
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2422 Band edge

: N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB/m dB 2390.000 5.34 28.57 38.11 67.79 63.59 74.00 -10.41 5.36 28.71 38.11 103.21 99.17 74.00 25.17 2 pp 2424.474

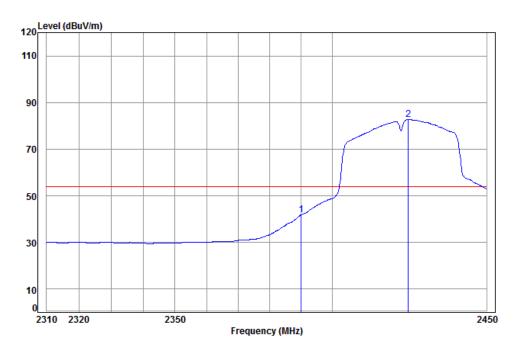
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2422 Band edge

: N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB/m dB 2390.000 5.34 28.57 38.11 46.11 41.91 54.00 -12.09 2 pp 2424.474 5.36 28.71 38.11 86.78 82.74 54.00 28.74

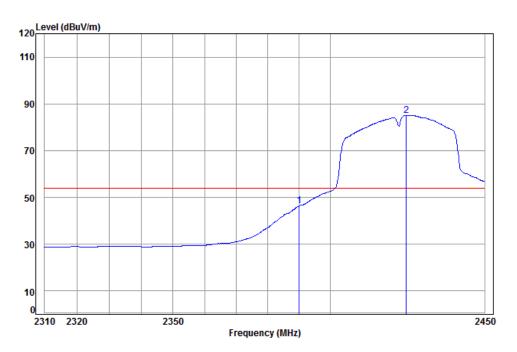
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2422 Band edge

: N40

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dВ MHz dB/m 2390.000 5.34 28.57 38.11 50.65 46.45 54.00 -7.55 2 pp 2424.474 5.36 28.71 38.11 89.17 85.13 54.00 31.13

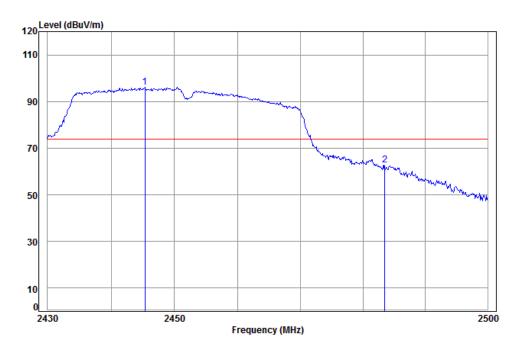
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2452 Band edge

: N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dB dBuV dBuV/m dBuV/m MHz dB/m dB 1 pp 2445.299 5.38 28.81 38.11 99.92 96.00 74.00 22.00 5.41 28.98 38.12 66.59 62.86 74.00 -11.14

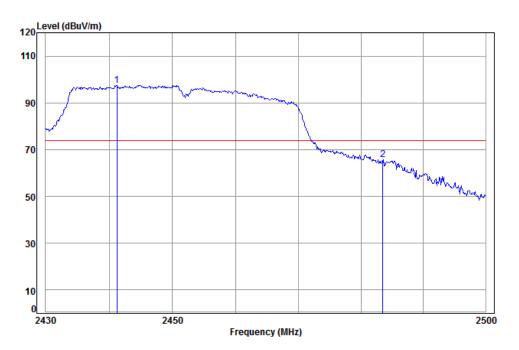
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2452 Band edge

: N40

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dB MHz dB/m 1 pp 2441.206 5.38 28.79 38.11 101.41 97.47 74.00 23.47 2483.500 5.41 28.98 38.12 69.35 65.62 74.00

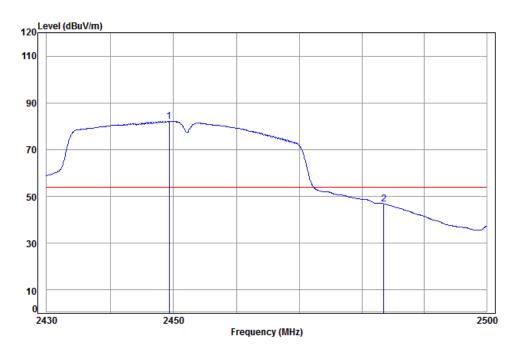
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Vertical



Condition: 3m Vertical Job No: : 4056CR

Mode: : 2452 Band edge

: N40

Ant Preamp 0ver Cable Read Limit Freq Loss Factor Factor Level Level Line Limit MHz dB dBuV dBuV/m dBuV/m dB/m 1 pp 2449.331 5.38 28.83 38.11 86.09 82.19 54.00 28.19 2483.500 5.41 28.98 38.12 50.62 46.89 54.00

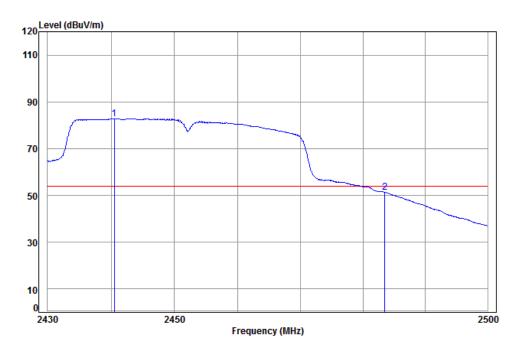
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 4056CR

Mode: : 2452 Band edge

: N40

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
• •	2440.512 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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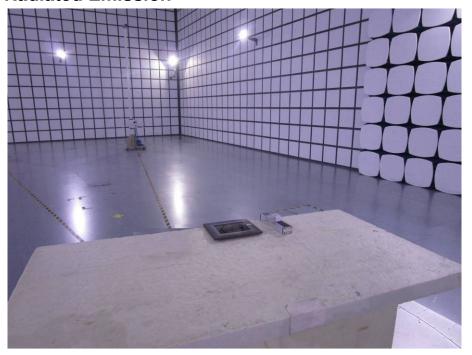
7 Photographs - EUT Test Setup

Test model No.: JD097RT-00E

7.1 Conducted Emission



7.2 Radiated Emission



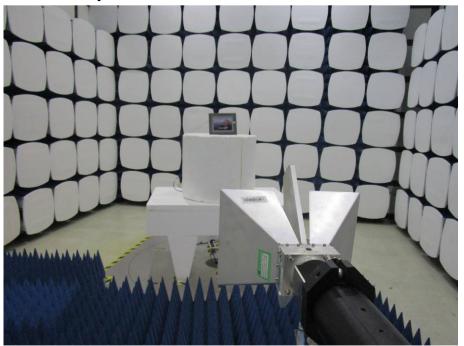
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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1605004056CR.