

Report No.: SZEM140600320903

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

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FCC REPORT

Application No: SZEM1406003209RF

Applicant: NEOSTRA INDUSTRIAL (HK) LIMITED

Manufacturer: Shenzhen Neostra Technology Co., Ltd

Factory: Shenzhen Neostra Technology Co., Ltd

Product Name: MID

Model No.(EUT): HSTNH-N408F

Trade mark: hp

FCC ID: 2ABNS1402

Standards: 47 CFR Part 15, Subpart C (2013)

Date of Receipt: 2014-06-24

Date of Test: 2014-07-03 to 2014-07-17

Date of Issue: 2014-07-25

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 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 v03r01	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r01	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r01	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r01	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r01	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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4 General Information

4.1 Client Information

Applicant:	NEOSTRA INDUSTRIAL (HK) LIMITED			
Address of Applicant:	MSC2971 RM 1007 10/F HO KING CTR 2-16 FA YUEN ST MONGKOK KL, HONG KONG			
Manufacturer:	Shenzhen Neostra Technology Co., Ltd			
Address of Manufacturer:	Build 7, Huai De Cui Hai Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China.			
Factory:	Shenzhen Neostra Technology Co., Ltd			
Address of Factory:	Build 7, Huai De Cui Hai Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China.			

4.2 General Description of EUT

Product Name:	MID		
Model No.:	HSTNH-N408	F	
Trade Mark:	hp		
Operation Frequency:	IEEE 802.11b	/g/n(HT20): 2412MHz to 2462MHz	
Channel Numbers:	IEEE 802.11b	/g/n(HT20): 11 Channels	
Channel Separation:	5MHz		
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)		
	IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK,BPSK)		
Sample Type:	Portable production		
EUT Function:	MID		
Test Software of EUT:	RF Test Tool	(manufacturer declare)	
Antenna Type:	Integral		
Antenna Gain:	2.33dBi		
Power Supply:	AC Adapter:	Model: W12-010N3A	
		UP/N: W010R013L	
		Input: AC 100-240V 50/60Hz 0.3A	
		Output: DC 5V 2A	
	Battery:	3.7V 3800mAh 14.06Wh	
	Rechargeable Lithium-ion Polymer Battery		
Test Voltage:	AC 120V 60H	-lz	
USB Cable:	80cm (Unshie	lded with two core)	



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

Note:

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

For 802.11b/g/n (HT20):

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



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4.3 Test Environment and Mode

Operating Environment:	Operating Environment:				
Temperature:	24.0 °C				
Humidity:	52 % RH				
Atmospheric Pressure:	1008 mbar				
Test mode:					
Charge + Transmitting mode:	Keep the EUT charging and transmitting with modulation.				
Transmitting mode:	Keep the EUT transmitting with modulation.				

4.4 Description of Support Units

The EUT has been tested independently.

4.5 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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4.6 Test Facility

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

CNAS (No. CNAS L2929)

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

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

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

• Industry Canada (IC)

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

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.





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4.10Equipment List

	Conducted Emission	n			
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-16
4	8 Line ISN	Fischer Custom Communications Inc. FCC-TLISN T8-02		SEL0162	2014-11-10
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	SEL0163	2014-11-10
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	SEL0164	2014-11-10
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-16
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-29
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-16



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	RE in Chamber							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)			
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10			
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2015-05-16			
3	EMI Test software	AUDIX	E3	SEL0050	N/A			
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24			
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24			
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-10-24			
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16			
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24			
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-29			
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-29			
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-29			
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-29			
13	Band filter	Amindeon	82346	SEL0094	2015-05-16			
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-16			
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24			
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24			
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-16			
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24			
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-06-04			



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	RF connected test				
Item	Test Equipment	Manufacturer	Manufacturer Model No.		Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-16
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-05-16
8	Band filter	amideon	82346	SEL0094	2015-05-16
9	POWER METER	R&S	NRVS	SEL0144	2014-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-05-16
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24

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



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5 Test results and Measurement Data

5.1 Antenna Requirement

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

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.33dBi.





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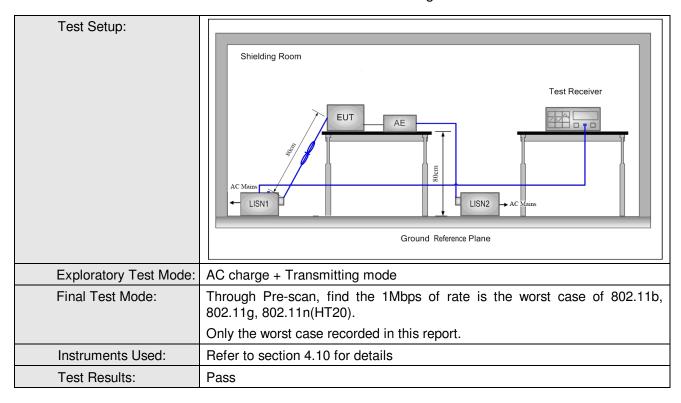
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	: 150kHz to 30MHz				
Limit:	Fueron and a control (MIII-)	Limit (c	lBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.		Ī	
Test Procedure:	The mains terminal disturbance voltage test was conducted in a shift room.				
	1) The mains terminal disturbance voltage test was conducted in a shiel				



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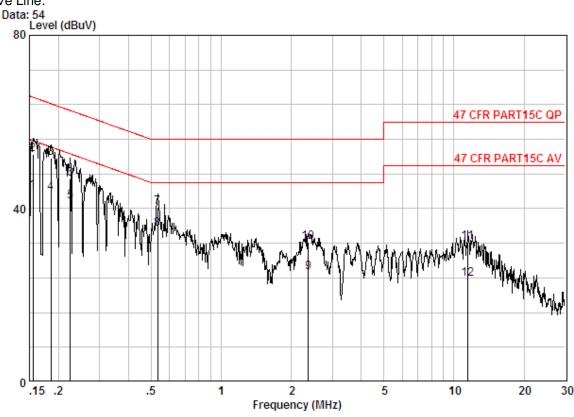
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Measurement Data

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

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





Site : Shielding Room

Condition : 47 CFR PART15C QP CE LINE

Job No. : 3209RF

Mode : AC charge+TX mode

		Freq	Cable Loss	LISN Factor			Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	@	0.15567	0.02	9.70	34.42	44.14	55.69	-11.55	Average
2		0.15567	0.02	9.70	42.71	52.43	65.69	-13.26	QP
3	@	0.18541	0.02	9.70	41.86	51.58	64.24	-12.66	QP
4	0	0.18541	0.02	9.70	33.95	43.67	54.24	-10.57	Average
5	0	0.22437	0.02	9.70	31.84	41.56	52.66	-11.10	Average
6		0.22437	0.02	9.70	37.05	46.77	62.66	-15.89	QP
7		0.53215	0.01	9.80	30.59	40.40	56.00	-15.60	QP
8	0	0.53215	0.01	9.80	25.50	35.31	46.00	-10.69	Average
9		2.371	0.02	9.82	15.44	25.28	46.00	-20.72	Average
10		2.371	0.02	9.82	22.32	32.16	56.00	-23.84	QP
11		11.498	0.01	9.97	22.31	32.29	60.00	-27.71	QP
12		11.498	0.01	9.97	13.80	23.78	50.00	-26.22	Average

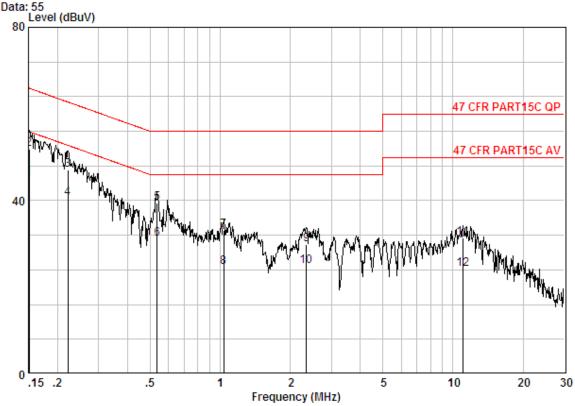




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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C QP CE NEUTRAL

Job No. : 3209RF

Mode : AC charge+TX mode

		Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	@	0.15080	0.02	9.70	35.50	45.22	55.96	-10.73	Average
2		0.15080	0.02	9.70	42.26	51.98	65.96	-13.98	QP
3		0.22201	0.02	9.70	37.41	47.12	62.74	-15.62	QP
4	@	0.22201	0.02	9.70	30.77	40.49	52.74	-12.25	Average
5		0.53498	0.01	9.80	29.75	39.56	56.00	-16.44	QP
6		0.53498	0.01	9.80	21.31	31.12	46.00	-14.88	Average
7		1.037	0.02	9.80	23.24	33.06	56.00	-22.94	QP
8		1.037	0.02	9.80	14.79	24.61	46.00	-21.39	Average
9		2.346	0.02	9.82	20.04	29.88	56.00	-26.12	QP
10		2.346	0.02	9.82	14.91	24.75	46.00	-21.25	Average
11		11.080	0.01	10.00	21.43	31.44	60.00	-28.56	QP
12		11.080	0.01	10.00	14.22	24.23	50.00	-25.77	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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5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	KDB558074 D01 v03r01
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 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).
Limit:	30dBm
Test Results:	Pass



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Pre-scan under all rate at lowest channel 1								
Mode	Mode 802.11b			_				
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	18.33	18.21	18.16	18.12				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	20.07	20.01	19.96	19.92	19.87	19.86	19.83	19.78
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	19.55	19.52	19.43	19.41	19.38	19.37	19.34	19.31

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).





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Measurement Data

	medsurement bata					
	802.11b mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	18.33	30.00	Pass			
Middle	18.15	30.00	Pass			
Highest	18.04	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	20.07	30.00	Pass			
Middle	19.91	30.00	Pass			
Highest	19.62	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.55	30.00	Pass			
Middle	19.43	30.00	Pass			
Highest	19.40	30.00	Pass			

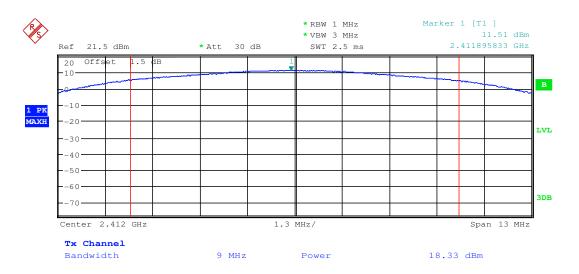


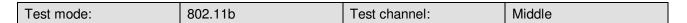
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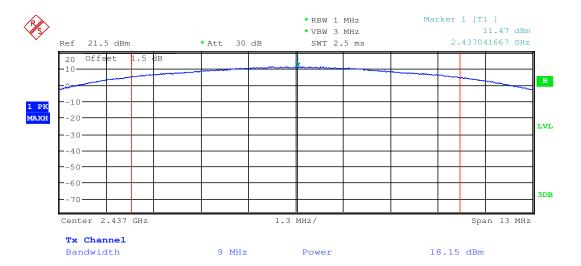
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





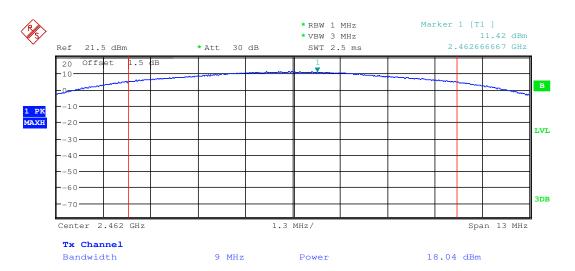




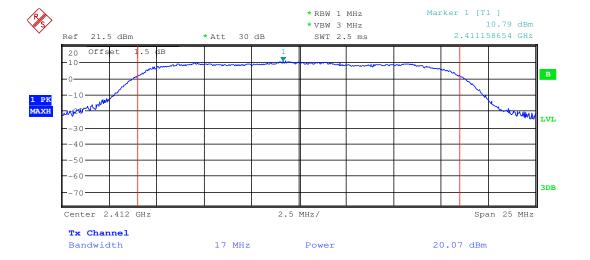
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

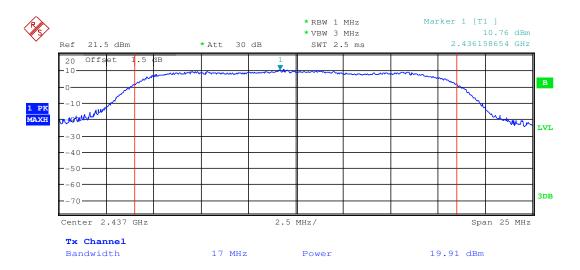




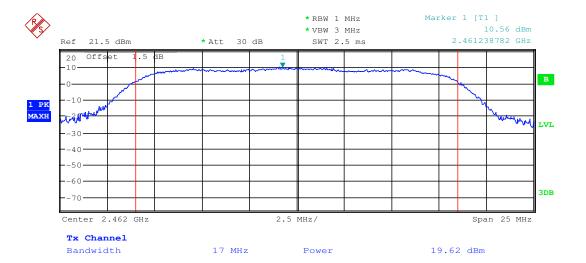
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Test mode: 802.11g Test channel: Middle



Test mode:	802.11g	Test channel:	Highest
Tost mode.	002.119	rost orialinol.	riigiiost

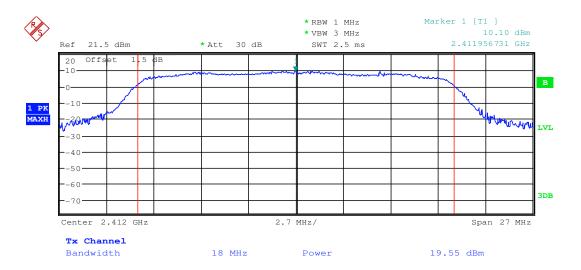




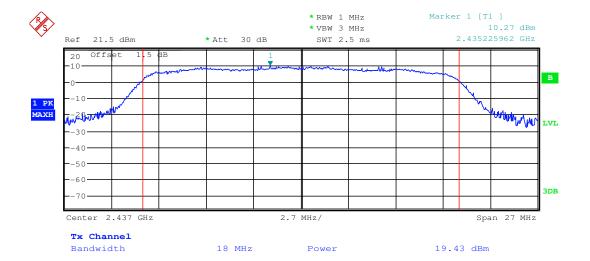
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Test mode: 802.11n(HT20) Test channel: Lowest



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

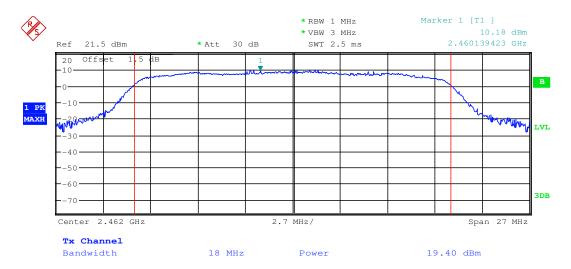




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Test mode: 802.11n(HT20) Test channel: Highest

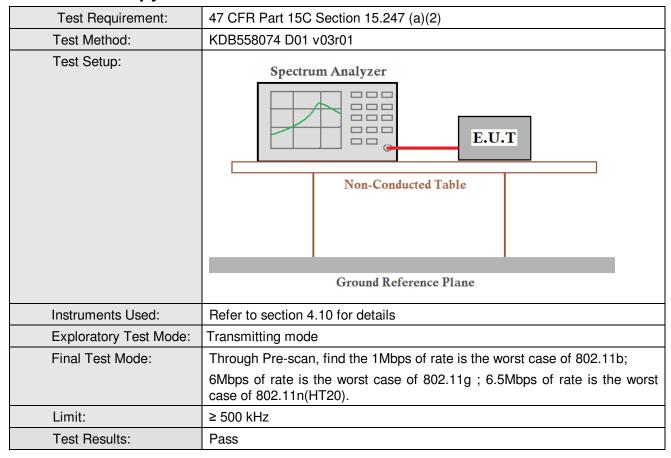




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5.4 6dB Occupy Bandwidth





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Measurement Data

802.11b mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	8.125000000	≥500	Pass		
Middle	8.076923077	≥500	Pass		
Highest	8.173076923	≥500	Pass		
	802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	16.490384615	≥500	Pass		
Middle	16.586538462	≥500	Pass		
Highest	16.490384615	≥500	Pass		
	802.11n(HT20) mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	17.692307692	≥500	Pass		
Middle	17.740384615	≥500	Pass		
Highest	17.740384615	≥500	Pass		

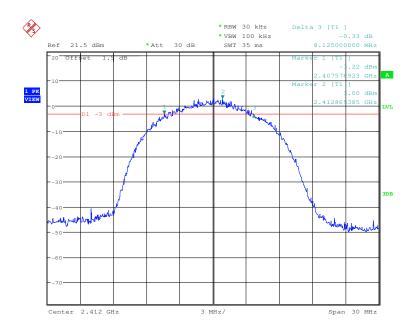


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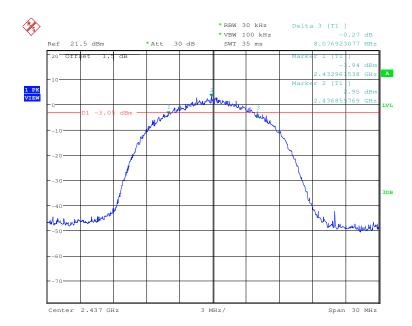
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

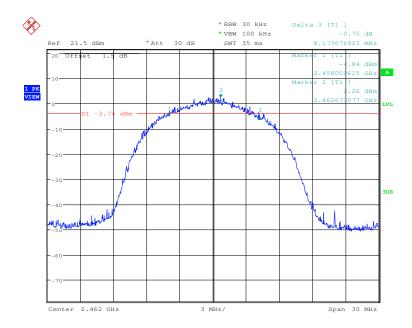




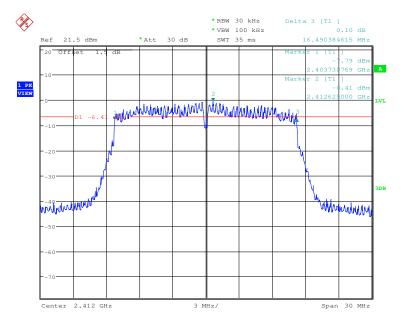
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Test mode: 802.11b Test channel: Highest



Test mode:	802.11g	Test channel:	Lowest
1 oot modo.	002.11g	1 Oot onamon.	2011001



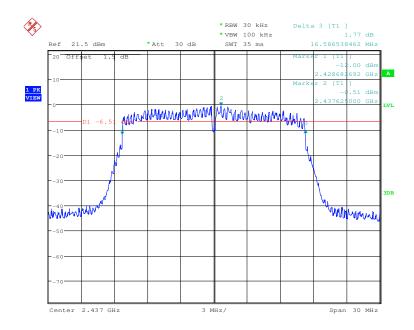




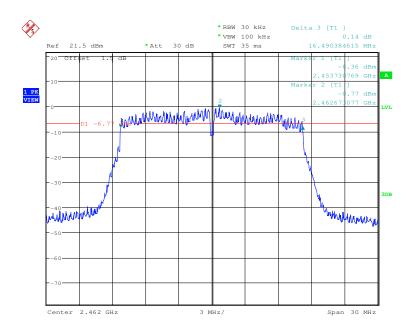
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Test mode: 802.11g Test channel: Middle





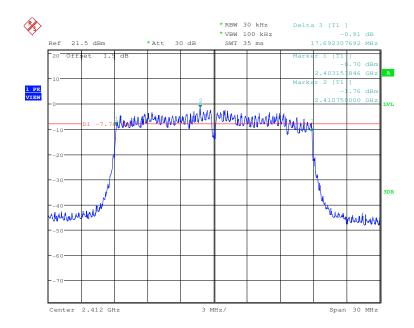




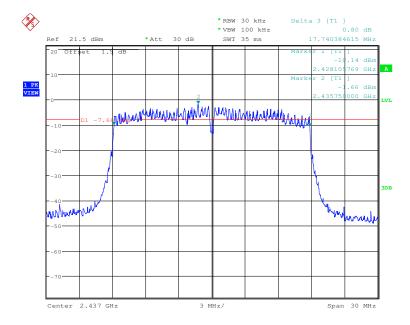
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Test mode: 802.11n(HT20) Test channel: Lowest





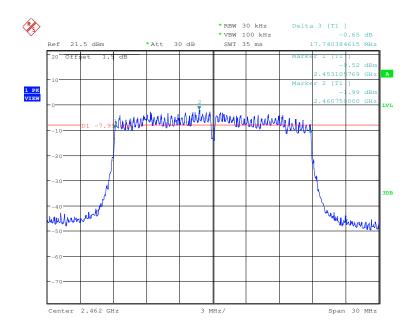




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Test mode: 802.11n(HT20) Test channel: Highest





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5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	KDB558074 D01 v03r01		
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 4.10 for details		
Exploratory Test Mode:	Transmitting mode		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;		
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).		
Limit:	≤8.00dBm		
Test Results:	Pass		



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Measurement Data

802.11b mode					
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-11.06	≤8.00	Pass		
Middle	-9.44	≤8.00	Pass		
Highest	-11.15	≤8.00	Pass		
	802.11g mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-14.30	≤8.00	Pass		
Middle	-13.33	≤8.00	Pass		
Highest	-13.78	≤8.00	Pass		
	802.11n (HT20) mode)			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result		
Lowest	-14.25	≤8.00	Pass		
Middle	-12.00	≤8.00	Pass		
Highest	-13.75	≤8.00	Pass		

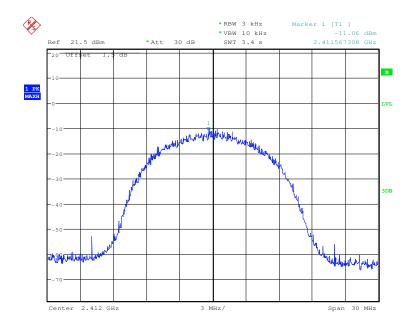


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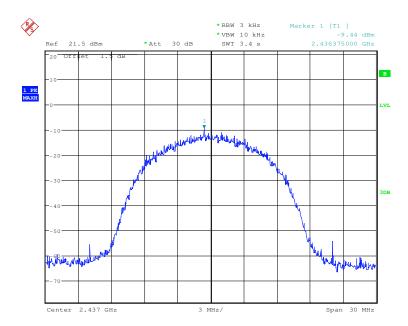
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

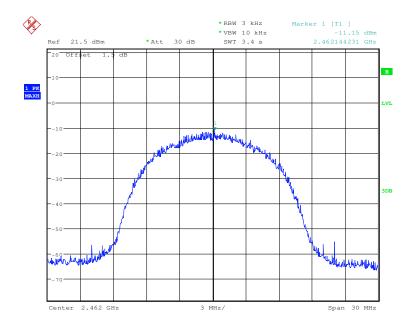




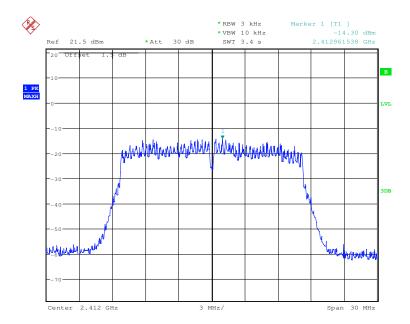
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Test mode: 802.11b Test channel: Highest





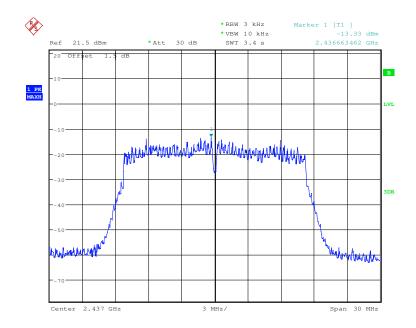




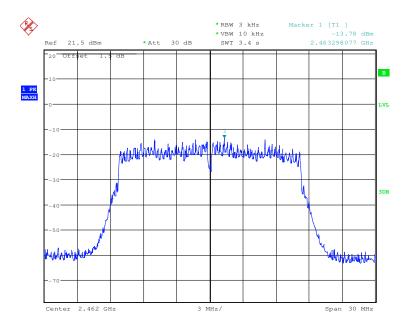
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Test mode: 802.11g Test channel: Middle





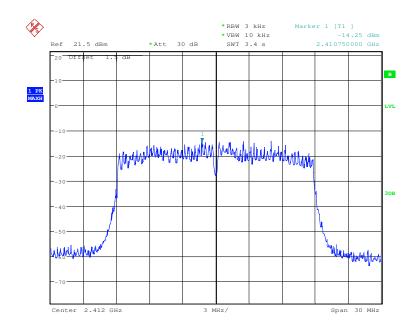




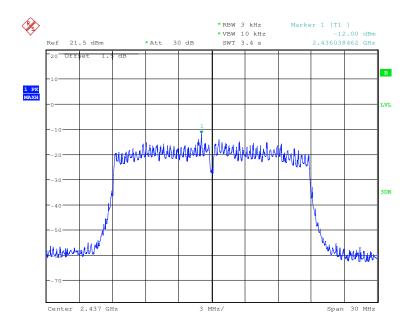
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Test mode: 802.11n (HT20) Test channel: Lowest





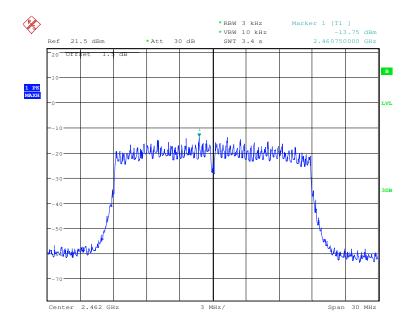




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Test mode: 802.11n (HT20) Test channel: Highest







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5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	KDB558074 D01 v03r01					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:					
Exploratory Test Mode:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Transmitting mode					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;					
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).					
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 4.10 for details					
Test Results:	Pass					

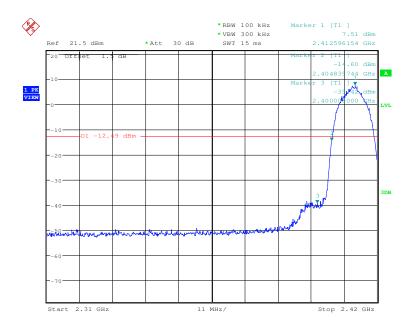


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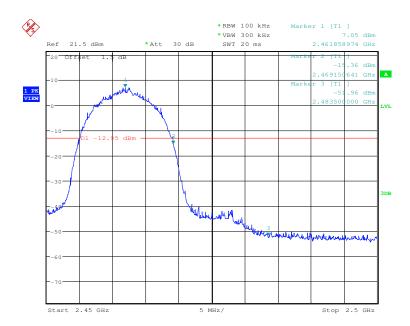
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest

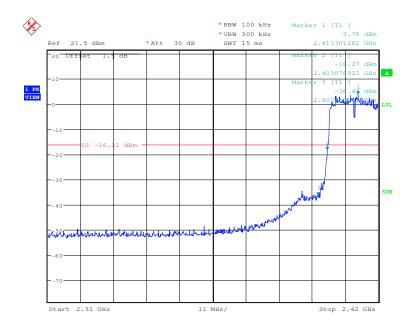




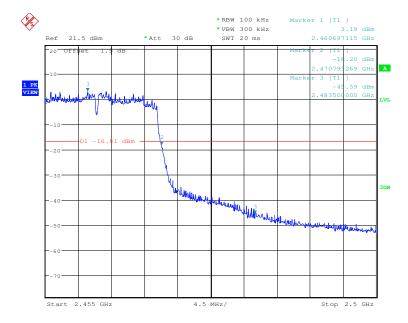
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Test mode: 802.11g Test channel: Lowest





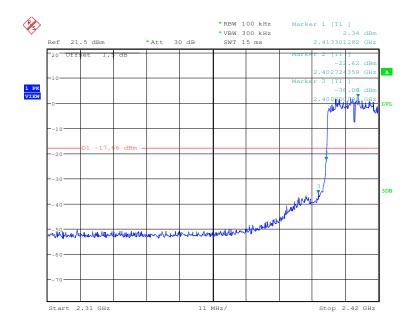




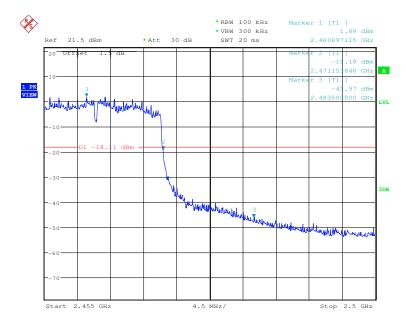
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Test mode: 802.11n (HT20) Test channel: Lowest









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5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	KDB558074 D01 v03r01					
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:	· · · · · · · · · · · · · · · · · · ·					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Instruments Used:	Refer to section 4.10 for details					
Test Results:	Pass					

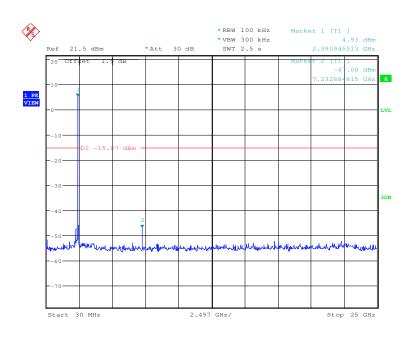


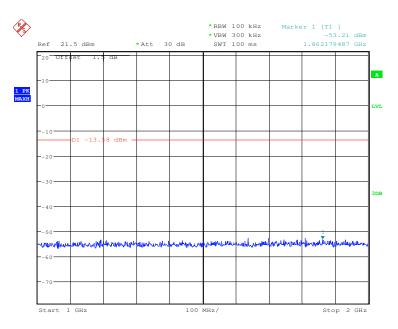
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

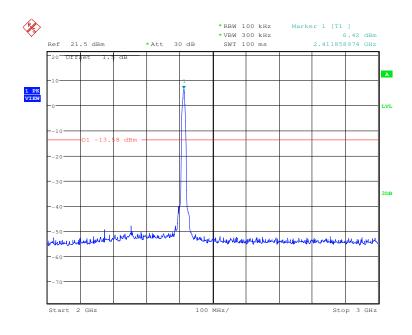


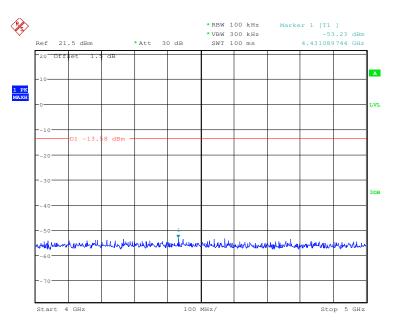




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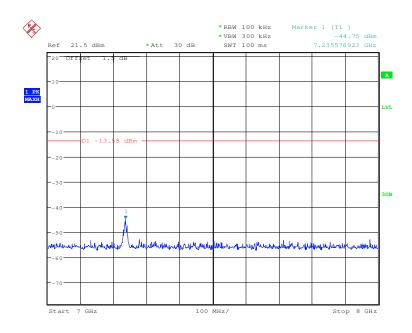


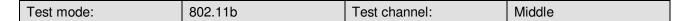


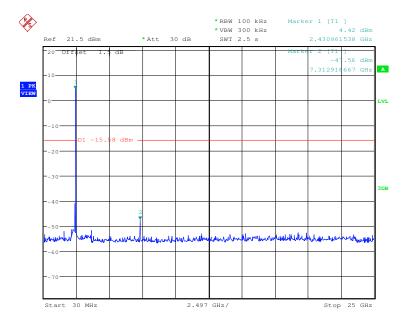


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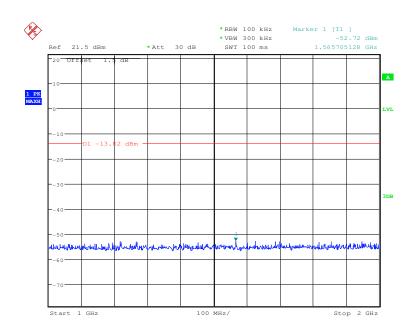


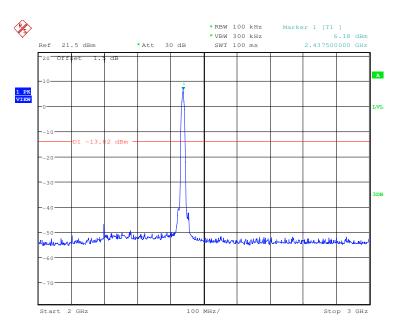




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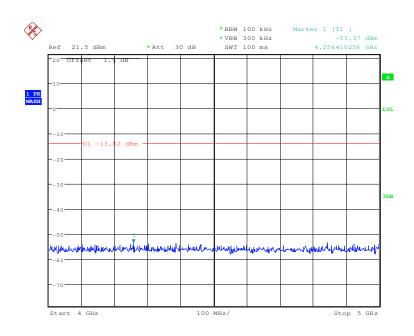


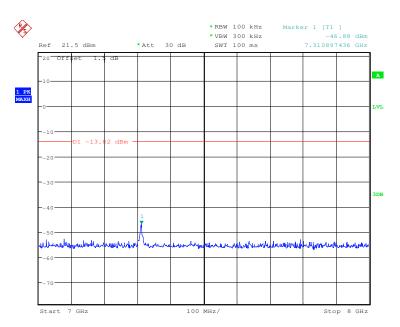




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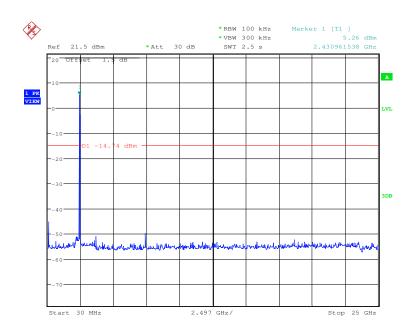


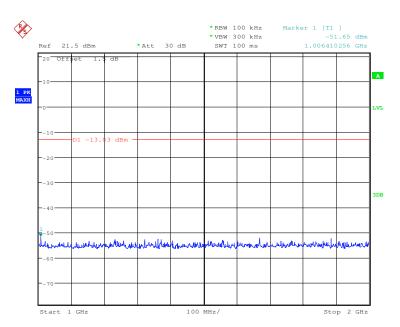


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Test mode: 802.11b Test channel: Highest

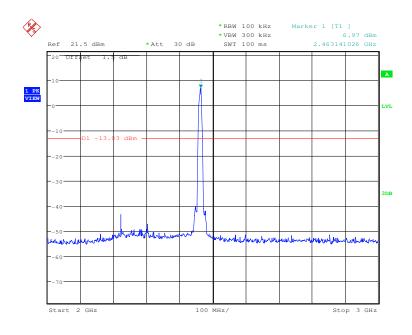


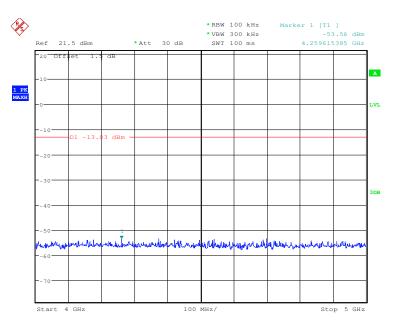




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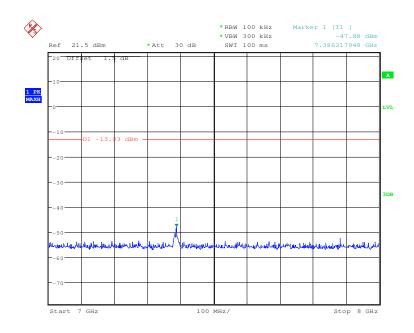




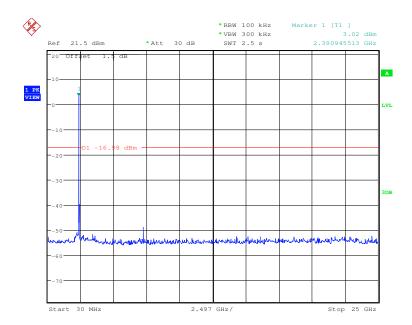


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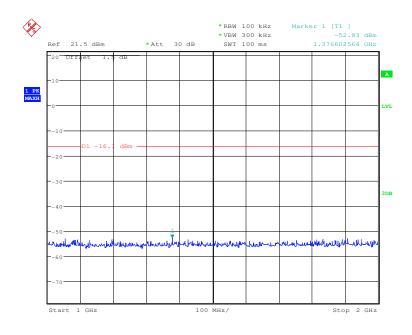


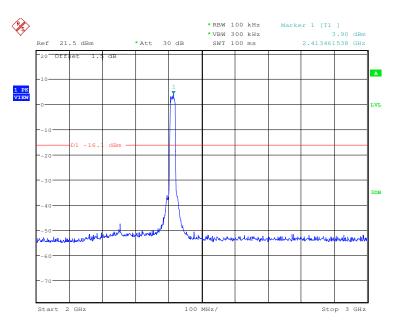




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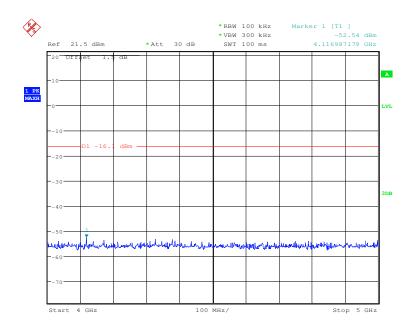


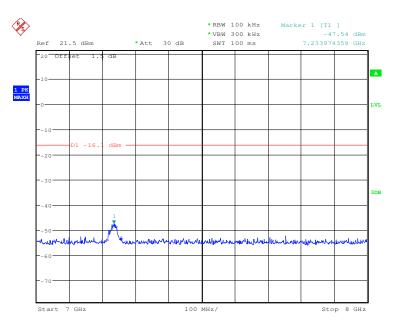




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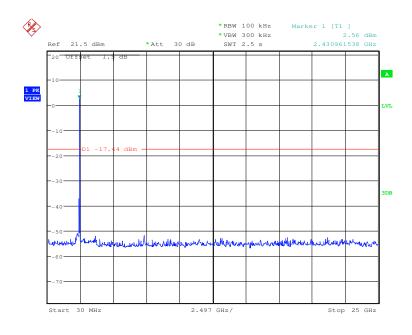


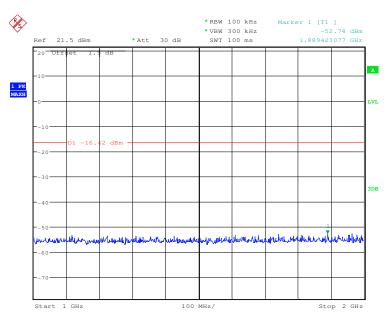


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Test mode: 802.11g Test channel: Middle

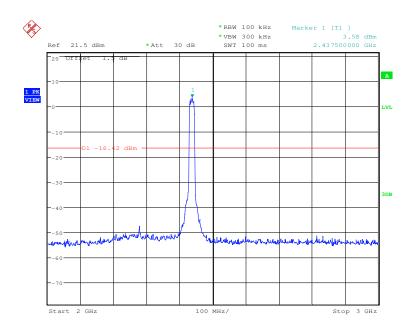


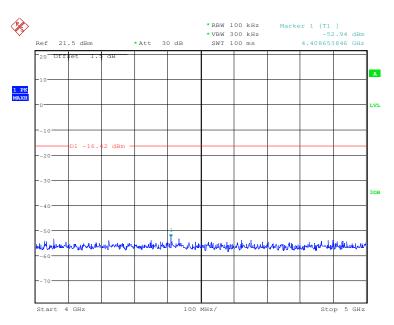




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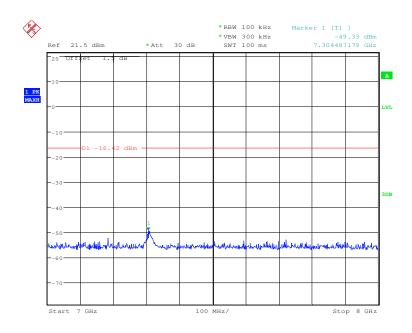


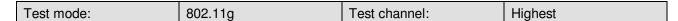


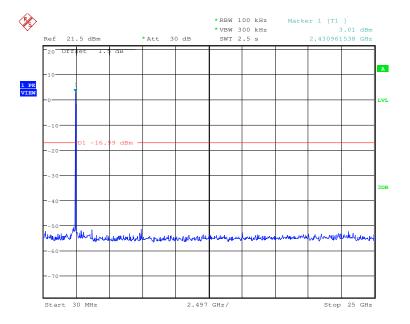


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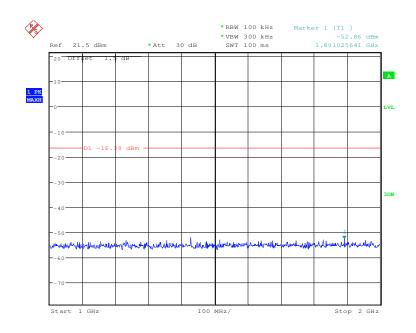


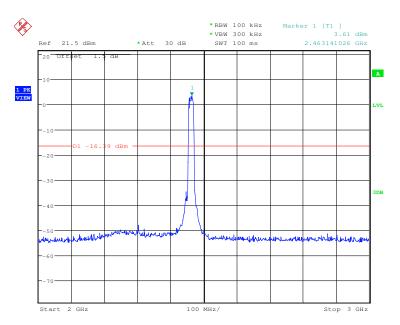




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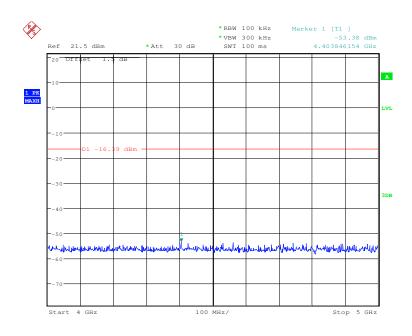


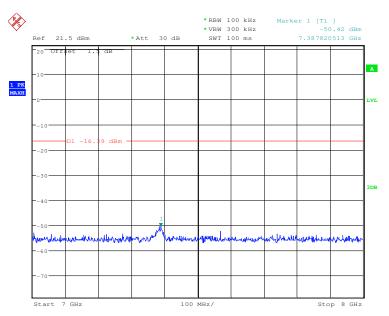




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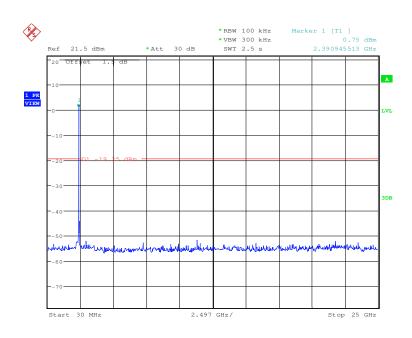


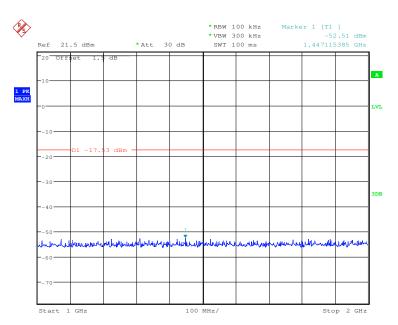


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Test mode: 802.11n (HT20) Test channel: Lowest

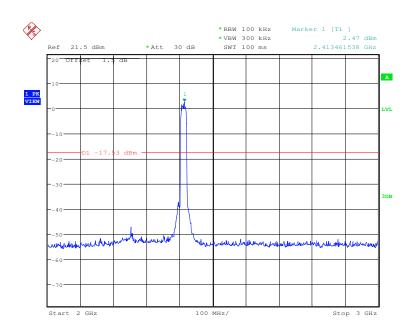


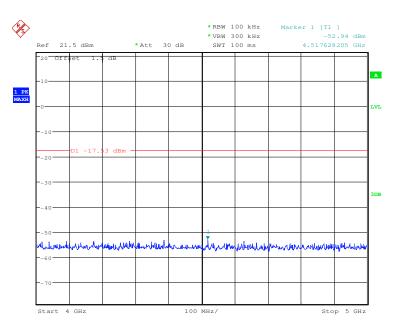




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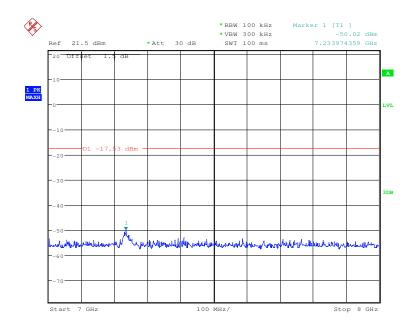




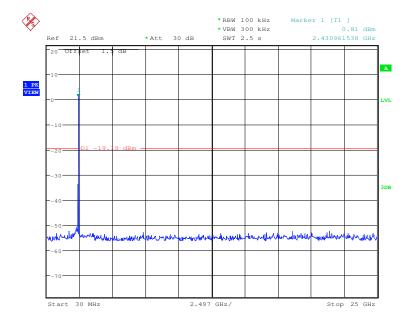


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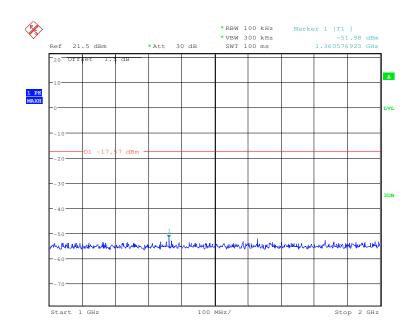


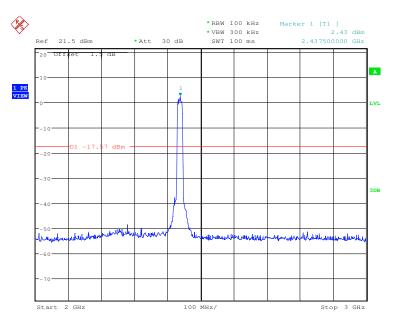




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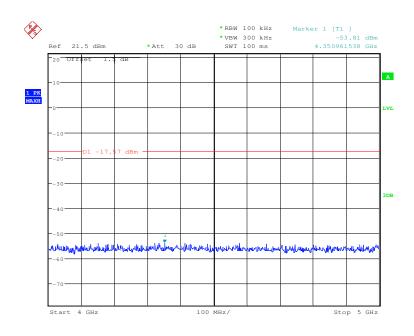


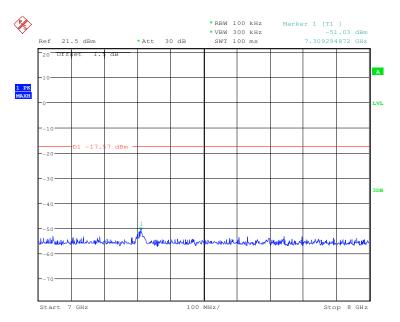




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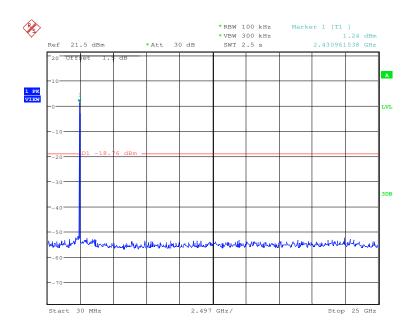


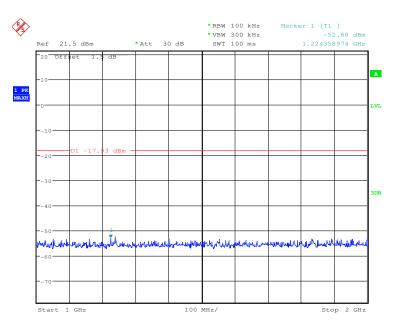


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Test mode: 802.11n (HT20) Test channel: Highest

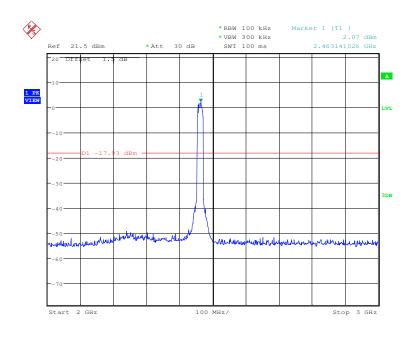


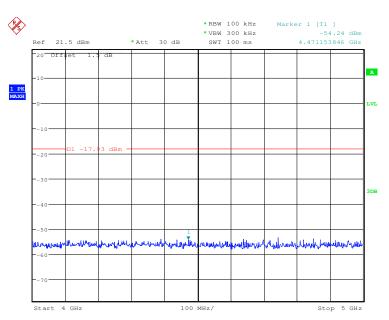




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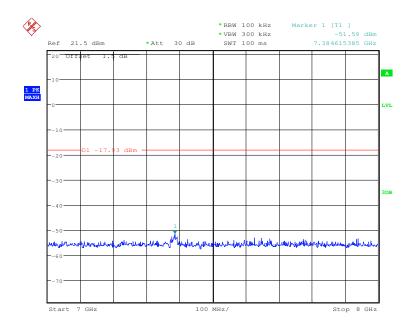






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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report.



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5.8 Radiated Spurious Emissions

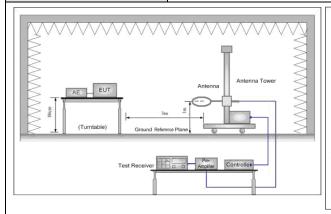
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2009									
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average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



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Test Setup:



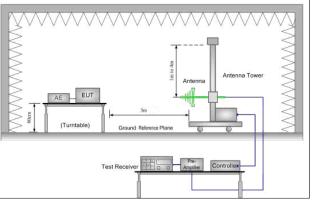


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

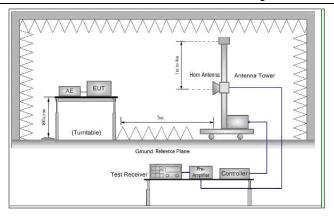


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have



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	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.
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode, Charge +Transmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b, $802.11g,802.11n(HT20)$.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

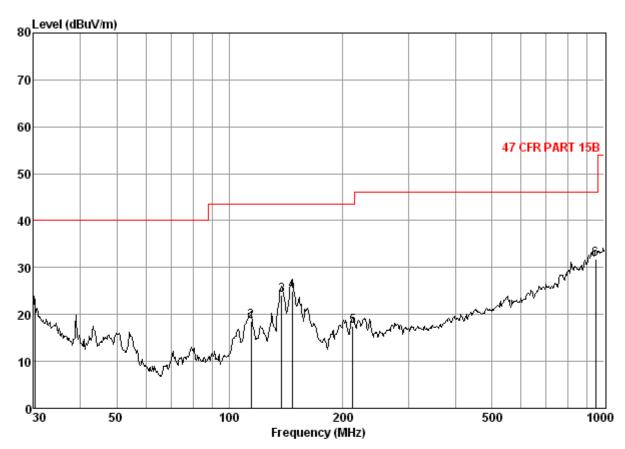


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5.8.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15B 3m 3142C VERTICAL

Job No. : 3209RF

Mode : Charge+Wifi mode

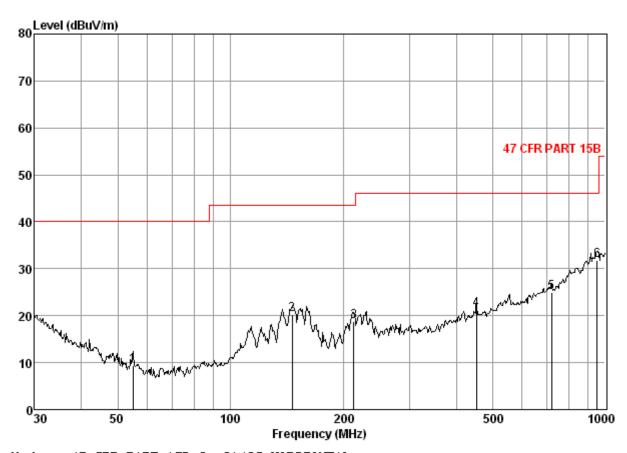
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 2 3 4 5	30. 21 114. 11 137. 90 146. 89 213. 02 948. 76		8.48 9.10 7.33	27.36 27.10 26.97 26.92 26.65 26.54	41.28 41.53 35.36	18.59 24.08 25.02 17.52	43.50 43.50 43.50 43.50	-19.42 -18.48 -25.98



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Test mode: Charge +Transmitting mode Horizontal



Condition: 47 CFR PART 15B 3m 3142C HORIZONTAL

Job No. : 3209RF

Mode : Charge+Wifi mode

Freq			Preamp Factor			Limit Line	Over Limit
MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 54.83 2 145.86 3 213.02 4 452.72 5 719.20 6 952.09	0.80 1.31 1.48 2.42 2.96 3.65	6.62 9.03 7.33 12.92 17.10 21.30	27. 28 26. 93 26. 65 27. 46 27. 39 26. 54	29. 32 36. 86 36. 62 33. 37 32. 25 33. 36		43.50 43.50 46.00 46.00	



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5.8.2 Transmitter emission above 1GHz

Test mode:	802.	11b	Test cha	ınnel:	Lowest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3625.669	3.84	33.34	40.76	49.14	45.56	74	-28.44	Vertical
4824.000	4.70	34.68	41.64	45.64	43.38	74	-30.62	Yertical
5948.210	5.11	35.62	40.97	48.33	48.09	74	-25.91	Vertical
7236.000	5.81	35.90	39.85	46.91	48.77	74	-25.23	Vertical Vertical
9648.000	5.99	37.36	37.76	45.62	51.21	74	-22.79	Vertical
11457.210	6.34	38.41	38.05	45.32	52.02	74	-21.98	S Vertical
3625.669	3.84	33.34	40.76	50.03	46.45	74	-27.55	Horizontal
4824.000	4.70	34.68	41.64	47.15	44.89	74	-29.11	Horizontal
6363.645	5.22	36.14	40.61	47.93	48.68	74	-25.32	. Horizontal
7236.000	5.81	35.90	39.85	46.90	48.76	74	-25.24	Horizontal
9648.000	5.99	37.36	37.76	44.82	50.41	74	-23.59	Horizontal
10778.210	6.17	38.41	37.77	45.26	52.07	74	-21.93	Horizontal

Test mode: 802.11b		Test ch	annel:	Middle	Remark	:	Peak		
Frequency (MHz)	Cab Los (dE	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3662.775	3.8	37	33.41	40.79	51.38	47.87	74	-26.13	Vertical
4874.000	4.7	2	34.59	41.68	48.00	45.63	74	-28.37	Vertical
5956.109	5.1	1	35.64	40.96	46.53	46.32	74	-27.68	Vertical
7311.000	5.9	0	35.92	39.79	47.93	49.96	74	-24.04	Vertical
9748.000	5.9	8	37.46	37.68	45.81	51.57	74	-22.43	Vertical
11027.980	6.2	23	38.49	37.88	45.81	52.65	74	-21.35	Vertical
3662.775	3.8	37	33.41	40.79	51.63	48.12	74	-25.88	Horizontal
4874.000	4.7	2	34.59	41.68	47.33	44.96	74	-29.04	Horizontal
6094.137	5.1	5	35.82	40.84	47.03	47.16	74	-26.84	Horizontal
7311.000	5.9	0	35.92	39.79	48.51	50.54	74	-23.46	Horizontal
9748.000	5.9	8	37.46	37.68	45.37	51.13	74	-22.87	Horizontal
11457.210	6.3	34	38.41	38.05	45.36	52.06	74	-21.94	Horizontal



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Test mode: 802.11b		Test cha	ınnel:	Highest	Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)		Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3700.260	3.91	33.45	40.81	53.59	50.14	74	-23.86	Vertical
4924.000	4.75	34.51	41.72	46.44	43.98	74	-30.02	. Vertical
5986.509	5.12	35.67	40.94	45.85	45.70	74	-28.30	Vertical
7386.000	5.98	35.96	39.72	46.72	48.94	74	-25.06	Vertical
9848.000	5.98	37.54	37.58	44.17	50.11	74	-23.89	Vertical
11399.030	6.32	38.42	38.02	44.66	51.38	74	-22.62	. Vertical
3700.260	3.91	33.45	40.81	49.91	46.46	74	-27.54	Horizontal
4924.000	4.75	34.51	41.72	47.01	44.55	74	-29.45	Horizontal
5987.460	5.12	35.67	40.94	48.65	48.50	74	-25.50	Horizontal
7386.000	5.98	35.96	39.72	48.75	50.97	74	-23.03	Horizontal
7413.726	6.02	35.97	39.69	47.25	49.55	74	-24.45	Horizontal
9848.000	5.98	37.54	37.58	46.73	52.67	74	-21.33	Horizontal

Test mode: 802.11g		Test cha	ınnel:	Lowest	Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3625.669	3.84	33.34	40.76	47.99	44.41	74	-29.59	Vertical
4824.000	4.70	34.68	41.64	48.04	45.78	74	-28.22	Vertical
6001.768	5.12	35.70	40.92	46.31	46.21	74	-27.79	Vertical
7236.000	5.81	35.90	39.85	46.79	48.65	74	-25.35	Vertical
9648.000	5.99	37.36	37.76	44.53	50.12	74	-23.88	Vertical
11084.270	6.24	38.48	37.90	44.81	51.63	74	-22.37	Vertical
3598.087	3.82	33.32	40.74	48.51	44.91	74	-29.09	Horizontal
4824.000	4.70	34.68	41.64	48.17	45.91	74	-28.09	Horizontal
6032.401	5.13	35.74	40.89	47.30	47.28	74	-26.72	Horizontal
7236.000	5.81	35.90	39.85	48.53	50.39	74	-23.61	Horizontal
9648.000	5.99	37.36	37.76	47.09	52.68	74	-21.32	Horizontal
11963.890	6.46	38.87	38.26	46.77	53.84	74	-20.16	Horizontal



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Test mode:	802.	11g	Test cha	ınnel:	Middle	Remark:	F	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Read Factor Level (dB) (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3662.775	3.87	33.41	40.79	51.14	47.63	74	-26.37	Vertical
4974.000	4.76	34.43	41.75	47.17	44.61	74	-29.39	Vertical
6032.401	5.13	35.74	40.89	48.51	48.49	74	-25.51	Vertical
7311.000	5.90	35.92	39.79	47.66	49.69	74	-24.31	Vertical
9748.000	5.98	37.46	37.68	45.41	51.17	74	-22.83	Vertical
10999.950	6.22	38.50	37.86	45.23	52.09	74	-21.91	Vertical
3662.775	3.87	33.41	40.79	50.37	46.86	74	-27.14	Horizontal
4974.000	4.76	34.43	41.75	46.67	44.11	74	-29.89	Horizontal
6001.768	5.12	35.70	40.92	46.22	46.12	74	-27.88	Horizontal
7311.000	5.90	35.92	39.79	46.59	48.62	74	-25.38	Horizontal
9748.000	5.98	37.46	37.68	46.66	52.42	74	-21.58	Horizontal
11312.310	6.30	38.44	37.99	44.62	51.37	74	-22.63	Horizontal

Test mode:	802.	11g	Test cha	ınnel:	Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3700.260	3.91	33.45	40.81	51.80	48.35	74	-25.65	Vertical
4924.000	4.75	34.51	41.72	46.00	43.54	74	-30.46	Vertical
6017.064	5.13	35.72	40.91	47.03	46.97	74	-27.03	Vertical
7386.000	5.98	35.96	39.72	47.30	49.52	74	-24.48	Vertical
9848.000	5.98	37.54	37.58	44.30	50.24	74	-23.76	Vertical
11842.690	6.43	38.74	38.21	46.01	52.97	74	-21.03	Vertical
3700.260	3.91	33.45	40.81	51.90	48.45	74	-25.55	Horizontal
4924.000	4.75	34.51	41.72	47.58	45.12	74	-28.88	Horizontal
6032.401	5.13	35.74	40.89	47.93	47.91	74	-26.09	Horizontal
7386.000	5.98	35.96	39.72	47.89	50.11	74	-23.89	Horizontal
9848.000	5.98	37.54	37.58	45.31	51.25	74	-22.75	Horizontal
11140.850	6.26	38.47	37.92	45.82	52.63	74	-21.37	Horizontal



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Test mode:	80	2.11n(HT20)	Test cha	ınnel:	Lowest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Read Factor Level (dB) (dBuV)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3625.669	3.84	33.34	40.76	48.14	44.56	74	-29.44	Vertical
4824.000	4.70	34.68	41.64	46.52	44.26	74	-29.74	Vertical
5971.290	5.12	35.64	40.94	46.75	46.57	74	-27.43	Vertical
7236.000	5.81	35.90	39.85	47.40	49.26	74	-24.74	Vertical
9648.000	5.99	37.36	37.76	44.95	50.54	74	-23.46	Vertical
11112.520	6.25	38.48	37.91	45.73	52.55	74	-21.45	Vertical
3561.636	3.79	33.28	40.72	47.85	44.20	74	-29.80	Horizontal
4824.000	4.70	34.68	41.64	47.12	44.86	74	-29.14	Horizontal
5850.919	5.07	35.45	41.06	48.06	47.52	74	-26.48	Horizontal
7236.000	5.81	35.90	39.85	48.17	50.03	74	-23.97	Horizontal
9648.000	5.99	37.36	37.76	46.05	51.64	74	-22.36	Horizontal
11140.850	6.26	38.47	37.92	45.72	52.53	74	-21.47	Horizontal

Test mode:	802	.11n(HT20)	Test cha	ınnel:	Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3873.749	4.05	33.66	40.94	47.15	43.92	74	-30.08	Vertical
4874.000	4.72	34.59	41.68	46.29	43.92	74	-30.08	Vertical
6001.768	5.12	35.70	40.92	46.22	46.12	74	-27.88	Vertical
7311.000	5.90	35.92	39.79	46.11	48.14	74	-25.86	Vertical
9748.000	5.98	37.46	37.68	44.14	49.90	74	-24.10	Vertical
11457.210	6.34	38.41	38.05	45.78	52.48	74	-21.52	Vertical
3662.775	3.87	33.41	40.79	49.44	45.93	74	-28.07	Horizontal
4874.000	4.72	34.59	41.68	47.82	45.45	74	-28.55	Horizontal
6032.401	5.13	35.74	40.89	47.50	47.48	74	-26.52	Horizontal
7311.000	5.90	35.92	39.79	47.68	49.71	74	-24.29	Horizontal
9748.000	5.98	37.46	37.68	44.72	50.48	74	-23.52	Horizontal
11663.190	6.39	38.56	38.13	45.60	52.42	74	-21.58	Horizontal



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Test mode:	802.	11n(HT20)	Test cha	nnel:	Highest	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Read Factor Level (dB) (dBuV)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
3700.260	3.91	33.45	40.81	50.53	47.08	74	-26.92	2 Vertical
4924.000	4.75	34.51	41.72	48.26	45.80	74	-28.20) Vertical
5986.509	5.12	35.67	40.94	45.68	45.53	74	-28.47	7 Vertical
7386.000	5.98	35.96	39.72	46.65	48.87	74	-25.13	3 Vertical
9848.000	5.98	37.54	37.58	44.46	50.40	74	-23.60) Vertical
10999.950	6.22	38.50	37.86	45.05	51.91	74	-22.09	9 Vertical
3700.260	3.91	33.45	40.81	48.44	44.99	74	-29.0°	I Horizontal
4924.000	4.75	34.51	41.72	46.95	44.49	74	-29.5 ⁻	I Horizontal
6032.401	5.13	35.74	40.89	47.03	47.01	74	-26.99	9 Horizontal
7386.000	5.98	35.96	39.72	47.39	49.61	74	-24.39	9 Horizontal
9848.000	5.98	37.54	37.58	44.97	50.91	74	-23.09	9 Horizontal
10916.260	6.20	38.47	37.83	45.37	52.21	74	-21.79	Horizontal

Remark:

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

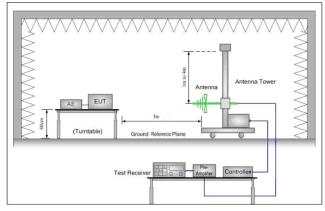


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5.9 Restricted bands around fundamental frequency

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



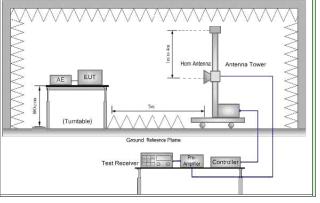


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +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 802.11th (HT20). Only the worst case is recorded in the report.		
antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +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). Only the worst case is recorded in the report.	Test Procedure:	the ground at a 3 meter semi-anechoic camber. The table was rotated
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +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). 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +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). Only the worst case is recorded in the report. Refer to section 4.10 for details		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make
Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +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). Only the worst case is recorded in the report. Refer to section 4.10 for details		and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to
transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Refer to section 4.10 for details		
h. 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. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details		transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for
for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode, Charge +Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details		g. Test the EUT in the lowest channel, the Highest channel
complete. Exploratory Test Mode: Transmitting mode, Charge +Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details		for Transmitting mode, And found the X axis positioning which it is
Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Refer to section 4.10 for details		
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report. Instruments Used: Refer to section 4.10 for details	Exploratory Test Mode:	Transmitting mode, Charge +Transmitting mode
Instruments Used: Refer to section 4.10 for details	Final Test Mode:	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst
		Only the worst case is recorded in the report.
Test Results: Pass	Instruments Used:	Refer to section 4.10 for details
	Test Results:	Pass



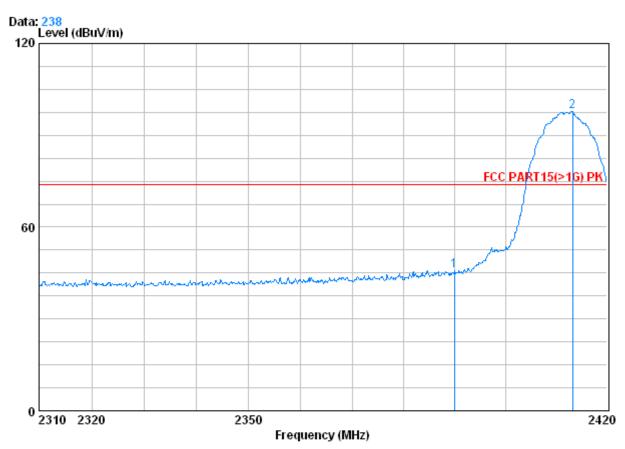


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Test plot as follows:

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 B Bandedge

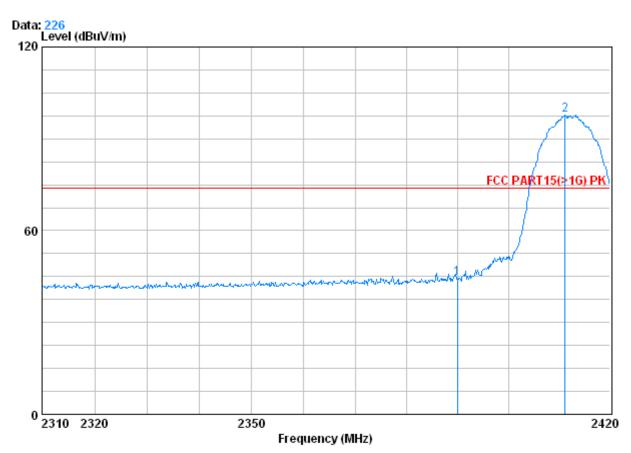
esi mode	. 2412 B Bandedge			Preamp Factor		Limit Line	Over Limit	Remark	
	MHz	dB	dB/m		 dBuV/m		dB		
1 2 X	2390.000 2413.180			39.85 39.86					



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 B Bandedge

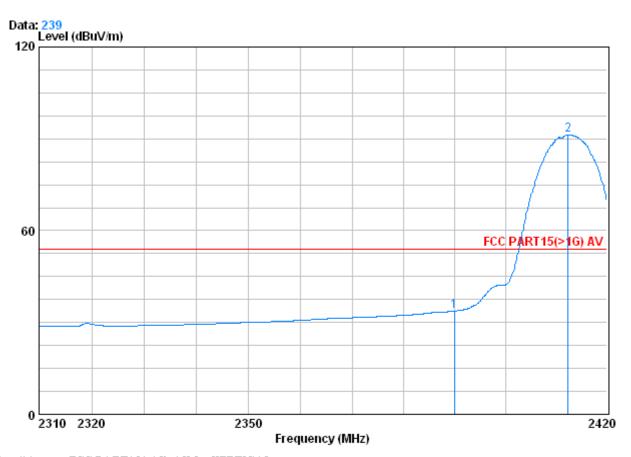
0001110000	. n - 11 n n n n n n n n n n n									
		Cablei	Antenna	${\tt Preamp}$	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	2.98	32.51	39.85	48.92	44.57	74.00	-29.43	Peak	
2 X	2411.090	2.99	32.54	39.86	101.94	97.61	74.00	23.61	Peak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 B Bandedge

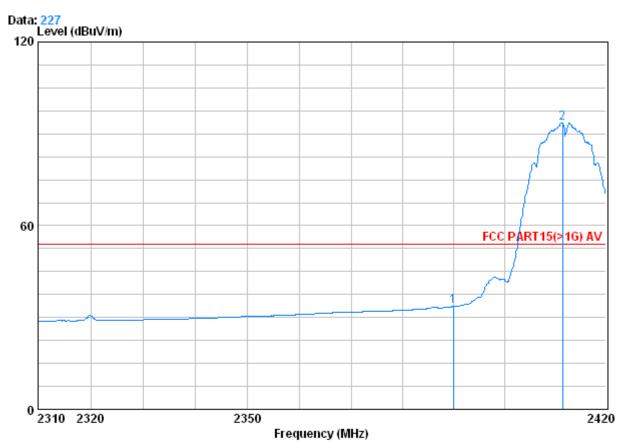
estilloue	. 2412 D Danaeage									
		Cablei	Antenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	2.98	32.51	39.85	38.09	33.74	54.00	-20.26	Peak	
20	2412.300	2.99	32.54	39.86	95.58	91.25	54.00	37.25	Peak	



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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 B Bandedge

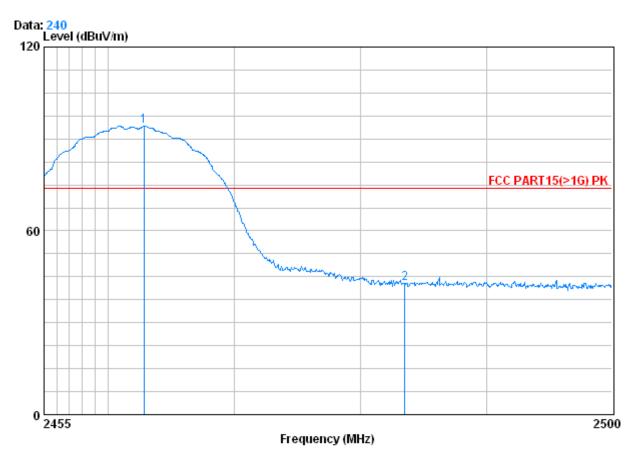
escinoue	. 2412 D Dalideuge									
		Cablei	lntenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
			,				•			
1	2390.000	2.98	32.51	39.85	37.95	33.60	54.00	-20.40	Peak	
2 @	2411.420	2 00	22 E4	20 06	07 02	02 40	E4 00	20 40	Doole	
ى ك	2411.420	4.99	J4.54	39.86	97.04	90.49	54.00	39.49	reak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 B Bandedge

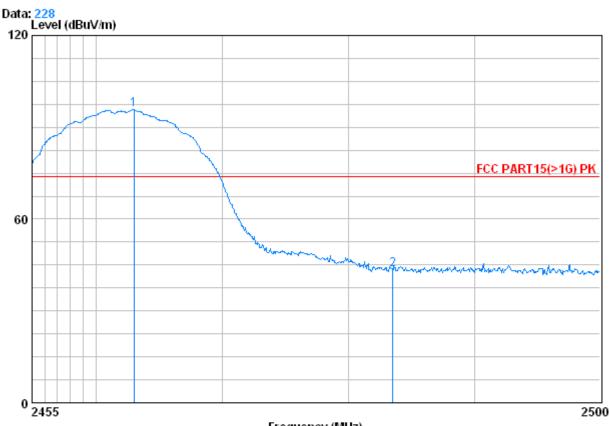
CSUILLOGC	. 2-02 D DarracaBo									
		Cablei	Antenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 X	2462.875	3.02	32.64	39.91	98.40	94.15	74.00	20.15	Peak	
2	2483.500	3.03	32.67	39.92	47.00	42.78	74.00	-31.22	Peak	



Report No.: SZEM140600320903

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



Frequency (MHz)

Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 B Bandedge

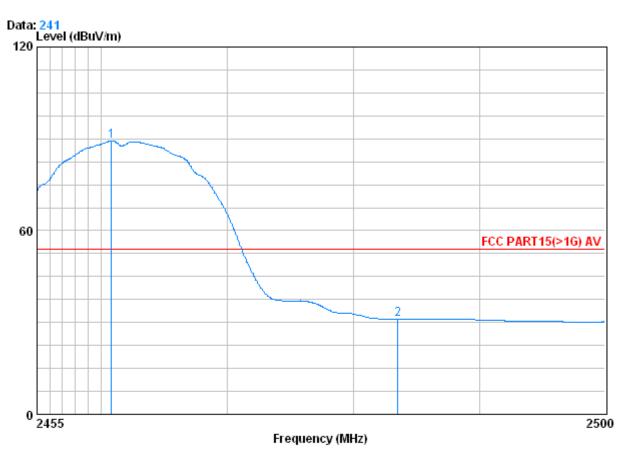
	Freq	CableAntenna Preamp Read Freq Loss Factor Factor Level						Over Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 X	2463.010	3.02	32.64	39.91	99.99	95.74	74.00	21.74	Peak	
2	2483.500	3.03	32.67	39.92	47.72	43.50	74.00	-30.50	Peak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 B Bandedge

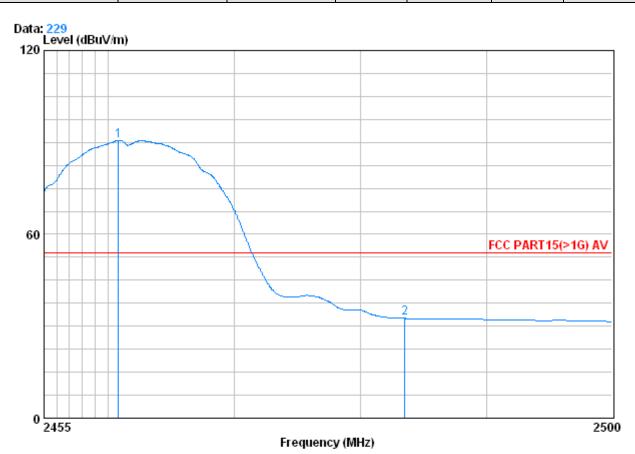
030111040	. 2-02 D Dataca80									
		Cablei	Antenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 0	2460.850	3.02	32.64	39.91	93.58	89.33	54.00	35.33	Peak	
2	2483.500	3.03	32.67	39.92	35.20	30.98	54.00	-23.02	Peak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 B Bandedge

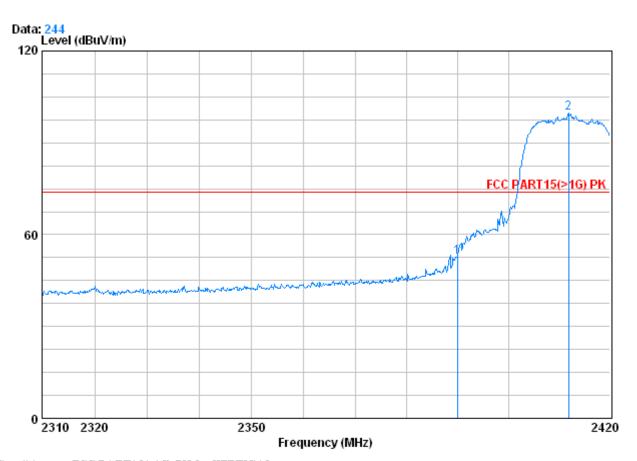
cst mode	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 @ 2	2460.850 2483.500			39.91 39.92					



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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 G Bandedge

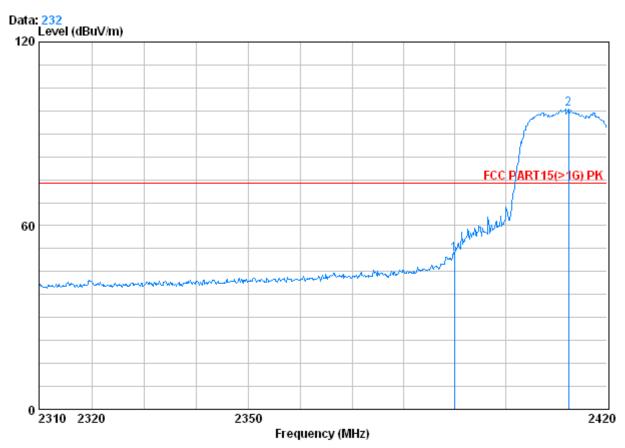
CSLIL	1046	. 2412 O Danaeage								
			Cablei	lntenna	Preamp	Read		Limit	Over	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		-								
		MHz	dB	dB/m		dBuV	dBuW/m	dBuW/m	dB	
		11112	Q.D	CLD/III	ab	abav	abav, m	abav, m	Q.D	
1		2390.000	2.98	32.51	39.85	56.84	52.48	74.00	-21.52	Peak
2 :	X	2411.860	2.99	32.54	39.86	104.05	99.72	74.00	25.72	Peak



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 G Bandedge

0001110000	. z-112 o z-m1404-60									
		Cablei	Antenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.000	2.98	32.51	39.85	55.19	50.83	74.00	-23.17	Peak	
2 X	2412.410	2.99	32.54	39.86	102.53	98.21	74.00	24.21	Peak	

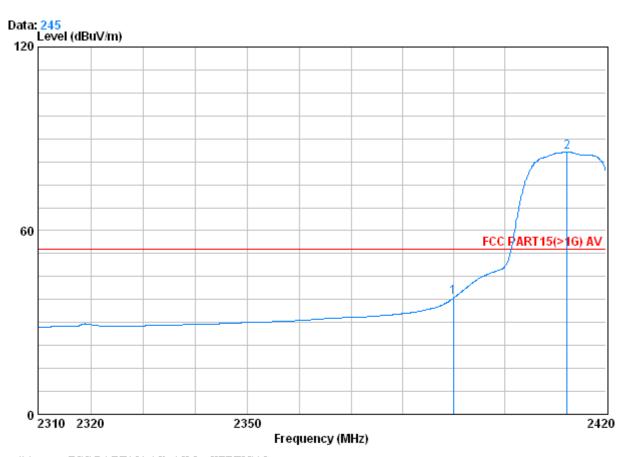




Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 G Bandedge

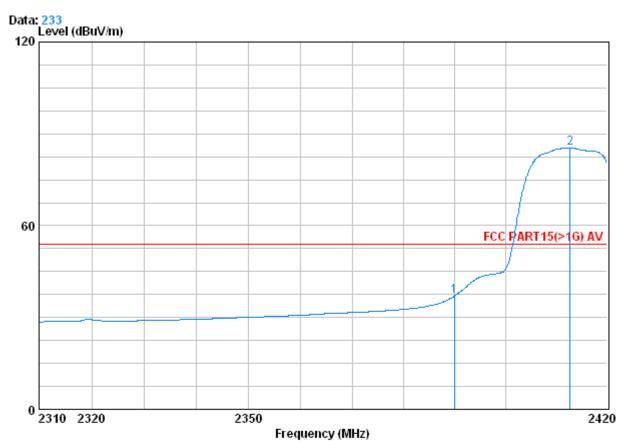
estilloue	. 2412 O Dandeuge			_	. .			_	
		Capie	ıntenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m		40	dBuV/m	dButt/m	dB	
	nnz	ав	ub/m	ив	авич	ubuv/m	ubuv/m	аь	
1	2390.000	2.98	32.51	39.85	42.45	38.10	54.00	-15.90	Peak
2 @	2412.300	2 00	32 54	39.86	90 07	85 75	54 00	31 75	Deek
2 6	2412.300	2.22	02.01	00.00	20.01	00.70	51.00	54.75	1 - 0.1



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 G Bandedge

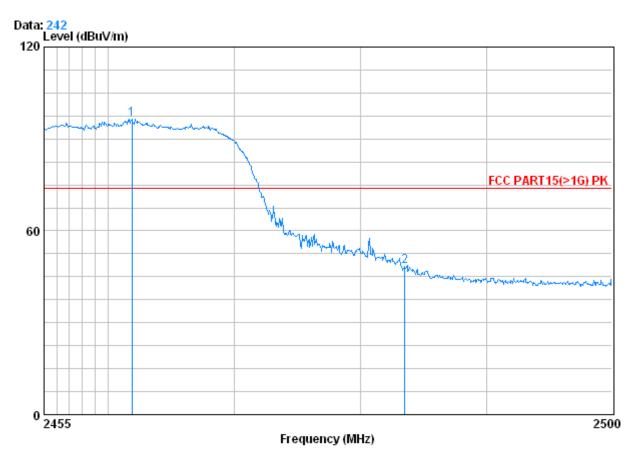
. csr mode	Freq			Preamp Factor	Read Level		Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2390.000	2.98	32.51	39.85	41.21	36.85	54.00	-17.15	Peak	
20	2412.740	2.99	32.54	39.86	89.78	85.46	54.00	31.46	Peak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 G Bandedge

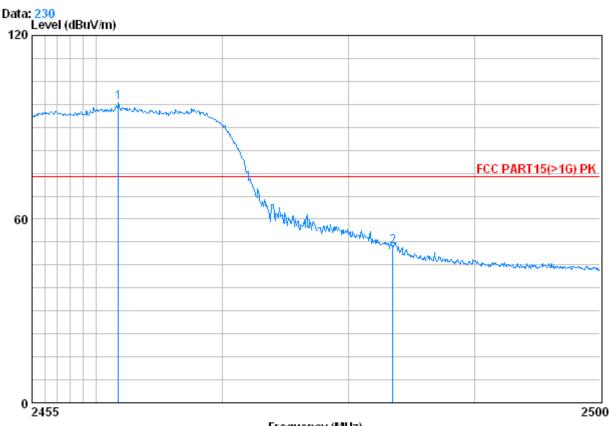
estilloue	. 2402 O Danueuge								
	_	Cablei	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2461.900	3.02	32.64	39.91	100.82	96.58	74.00	22.58	Peak
2	2483.500	3.03	32.67	39.92	52.61	48.39	74.00	-25.61	Peak



Report No.: SZEM140600320903

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



Frequency (MHz)

Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 G Bandedge

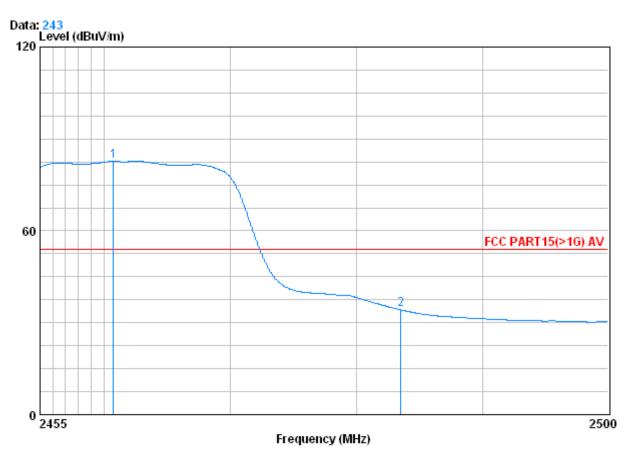
	Freq			•	Read Level			Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X 2					102.21 55.32				



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 G Bandedge

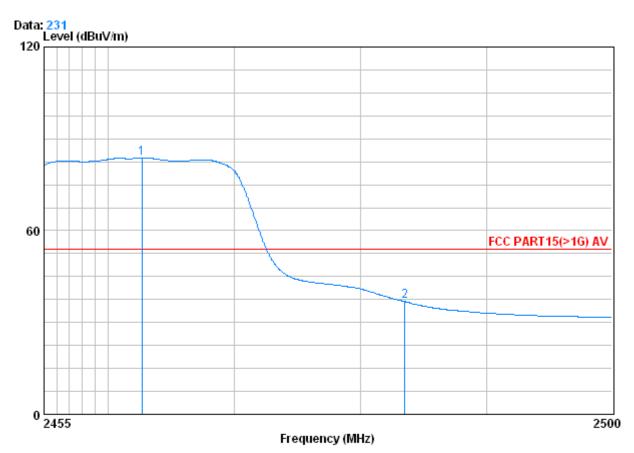
estilloue	. 2402 O Danacage								
	_	Cablei	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2460.750	3.02	32.64	39.91	86.97	82.73	54.00	28.73	Peak
2	2483.500	3.03	32.67	39.92	38.43	34.21	54.00	-19.79	Peak



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 G Bandedge

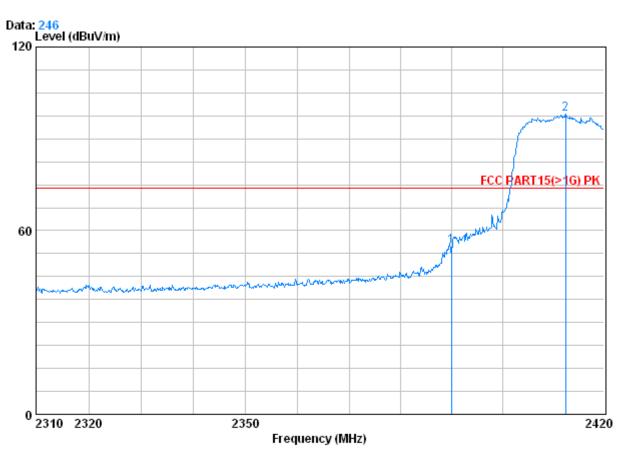
. opp mogo	Freq			Preamp Factor	Read Level		Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 0	2462.695	3.02	32.64	39.91	88.05	83.80	54.00	29.80	Peak	
2	2483.500	3.03	32.67	39.92	41.09	36.87	54.00	-17.13	Peak	



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 N20 Bandedge

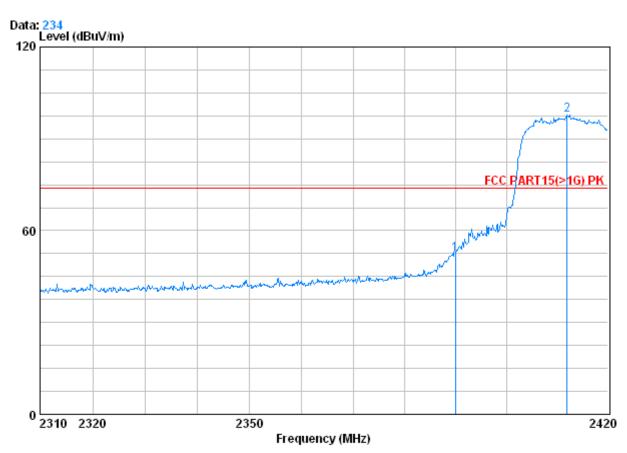
est mode	Freq			Preamp Factor	Read Level		Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 X					59.41 102.29				



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 N20 Bandedge

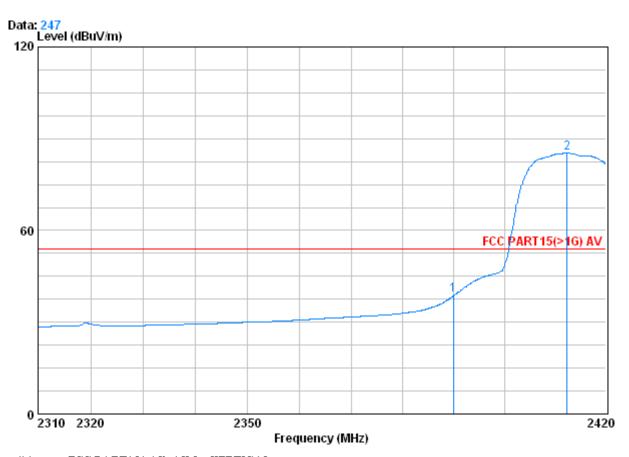
est mode	: 2412 N20 Bandedge Freq			Preamp Factor	Read Level		Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 X	2390.000 2411.970				56.74 102.03				



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2412 N20 Bandedge

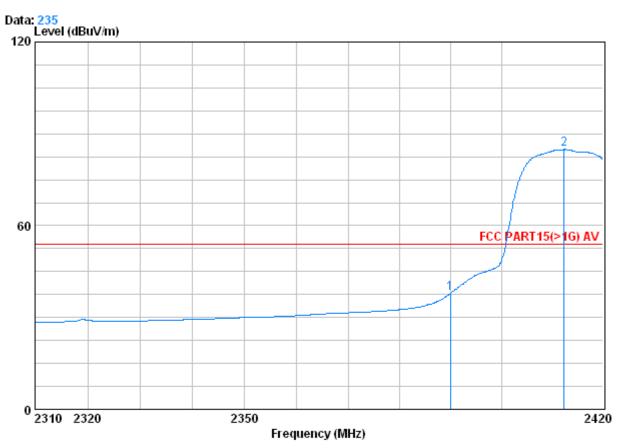
esi mode	Freq			Preamp Factor	Read Level		Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 @	2390.000 2412.300			39.85 39.86					



Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2412 N20 Bandedge

030111040	. 2-12 1120 Dataca60									
		Cablei	lntenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	•									
	MHz	dB	dB/m		-dp.,tt	dBuV/m	AD.177/100	dB		
	HHZ	uв	ub/m	аь	авич	ubuv/m	ubuv/m	аь		
1	2390.000	2.98	32.51	39.85	42.42	38.07	54.00	-15.93	Peak	
2 @	2412.300	2.99	32.54	39.86	89.19	84.86	54.00	30.86	Peak	

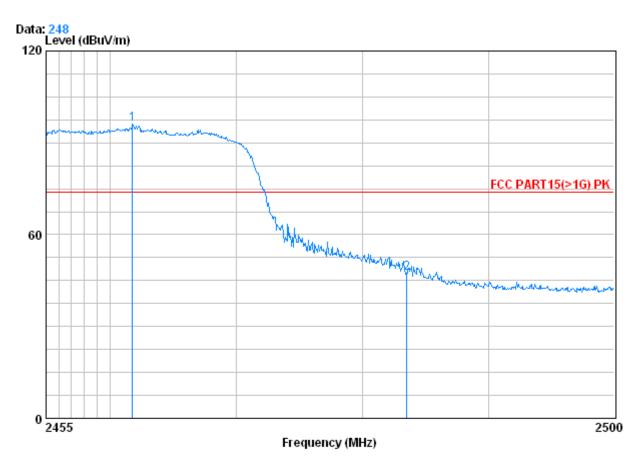




Report No.: SZEM140600320903

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 N20 Bandedge

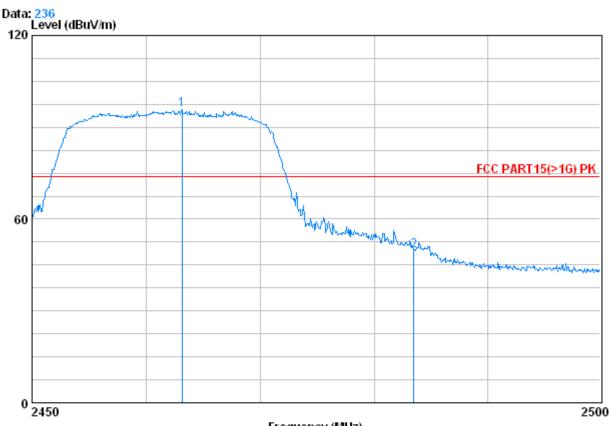
. csr mode	Freq			Preamp Factor	Read Level		Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 X	2461.795	3.02	32.64	39.91	100.22	95.97	74.00	21.97	Peak	
2	2483.500	3.03	32.67	39.92	51.56	47.34	74.00	-26.66	Peak	



Report No.: SZEM140600320903

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



Frequency (MHz)

Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 N20 Bandedge

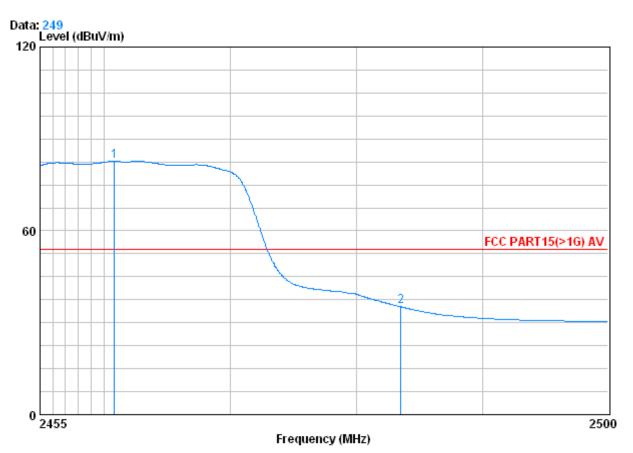
	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X 2					100.21 54.02				



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



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job NO : 3209RF

Test mode : 2462 N20 Bandedge

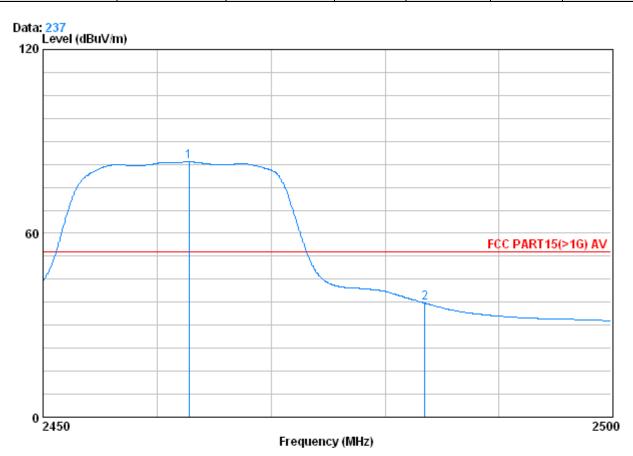
. cst mode	Freq			Preamp Factor			Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 0	2460.850	3.02	32.64	39.91	86.98	82.73	54.00	28.73	Peak	
2	2483.500	3.03	32.67	39.92	39.41	35.19	54.00	-18.81	Peak	



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



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job NO : 3209RF

Test mode : 2462 N20 Bandedge

csi mouc	Freq			Preamp Factor			Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.750	3.02	32.64	39.91	87.58	83.34	54.00	29.34	Peak
2	2483.500	3.03	32.67	39.92	41.45	37.23	54.00	-16.77	Peak

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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6 Photographs - EUT Test Setup

Test Model No.: HSTNH-N408F

6.1 Radiated Spurious Emission







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6.2 Conducted Emission



7 Photographs - EUT Constructional Details

Test Model No.: HSTNH-N408F

Refer to Report No. SZEM140600320901 for EUT external and internal photos.