

Report No.: SZEM131100620001

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FCC REPORT

Application No: SZEM1311006200RF

Applicant: Shenzhen Electron Technology Co., Ltd. **Manufacturer:** Shenzhen Electron Technology Co., Ltd Shenzhen Electron Technology Co., Ltd

Product Name: WiFi Digital Photo Frame

Model No.(EUT): W08A

Add Model No.: W08B, W12A, W15A

Trade Mark: nixplay

FCC ID: 2ABC5-W08A

Standards: 47 CFR Part 15, Subpart C (2012)

Date of Receipt: 2013-11-25

Date of Test: 2013-12-04 to 2013-12-16

Date of Issue: 2013-12-18

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	ANSI C63.10 2009	PASS
	15.203/15.247 (c)	7 11 10 1 0 00 1 1 0 2 0 0 0	17.00
AC Power Line	47 CFR Part 15, Subpart C Section		
Conducted	15.207	ANSI C63.10 2009	PASS
Emission	10.207		
Conducted Peak Output	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS
Power	15.247 (b)(3)	KDB336074 D01	PASS
6dB Occupied	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS
Bandwidth	15.247 (a)(2)	KDB336074 D01	FAGG
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01	PASS
Band-edge for RF	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS
Conducted Emissions	15.247(d)	KDB558074 D01	PASS
RF Conducted Spurious	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS
Emissions	15.247(d)	KDB336074 D01	FASS
Radiated Spurious	47 CFR Part 15, Subpart C Section	ANSI C62 10 2000	PASS
Emissions	15.205/15.209	ANSI C63.10 2009	rass
Band Edge (Radiated	47 CFR Part 15, Subpart C Section	ANSI C63.10 2009	PASS
Emission)	15.205/15.209	ANSI 003.10 2009	rass

Remark:

Model No.: W08A, W08B, W12A, W15A

Only the model W08A was tested, since the circuit design, PCB layout, electrical components used, internal wiring and functions were identical for the above models, with difference being model No. and color.



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4 General Information

4.1 Client Information

Applicant:	Shenzhen Electron Technology Co., Ltd.
Address of Applicant:	5/F, A bldg, Northern Junyi Park, Cuigang Sixth Industrial area,
	Fuyong Town, Bao'an district, Shenzhen, China
Manufacturer:	Shenzhen Electron Technology Co., Ltd
Address of Manufacturer:	5/F, A bldg, Northern Junyi Park, Cuigang Sixth Industrial area,
	Fuyong Town, Bao'an district, Shenzhen, China
Factory:	Shenzhen Electron Technology Co., Ltd
Address of Factory:	5/F, A bldg, Northern Junyi Park, Cuigang Sixth Industrial area,
	Fuyong Town, Bao'an district, Shenzhen, China

4.2 General Description of EUT

Product Name:	WiFi Digital Pho	oto Frame		
Model No.:	W08A, W08B, W12A, W15A			
Trade Mark:	nixplay			
Operation Frequency:		/n(HT20): 2412MHz to 2462MHz		
, , ,	_	T40): 2422MHz to 2452MHz		
Channel Numbers:	IEEE 802.11b/g	, IEEE 802.11n HT20: 11 Channels		
	IEEE 802.11n H	T40: 7 Channels		
Channel Separation:	5MHz			
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)			
	IEEE for 802.11	g : OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11	n(HT20 and HT40): OFDM (64QAM, 16QAM,		
	QPSK,BPSK)			
Sample Type:	fixed production			
Antenna Type and Gain:	Type: Integral a	ntenna		
	Gain:1.51dBi			
Power Supply:	AC Adapter:	MODEL:FKS106HSC-0501500U		
		INPUT:AC 100-240V~50/60Hz 0.25A MAX		
		OUTPUT:5.0V==1.5A		
	Battery: 3.0V DC (3.0V x 1 "CR2025" Button cells) for remote control			
Test Voltage:	AC 230V 50Hz			
DC Cable:	195cm (Unshie	195cm (Unshielded)		



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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fre	equency	Channe	I Frequency	Channel	Fre	quency	Char	nnel	Frequency
1	24	112MHz	4	2427MHz	7	244	12MHz	1()	2457MHz
2	24	117MHz	5	2432MHz	8	244	17MHz	11	1	2462MHz
3	24	122MHz	6	2437MHz	9	245	2452MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40)					
Channe		Frequ	ency	Channel	Frequen	су	Chan	nel	F	requency
1 2422MHz		4	2437MHz 7			2452MHz				
2	·	2427	MHz	5	2442MF	lz				
3 2432MHz				6	2447MH	łz				

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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4.3 Test Environment and Mode

Operating Environment:	Operating Environment:				
Temperature:	24.0 °C				
Humidity:	54 % RH				
Atmospheric Pressure:	1020 mbar				
Test mode:					
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s).				
AC charge + Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s) and AC charge it.				

4.4 Description of Support Units

The EUT has been tested independent unit.

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						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)		
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2014-06-10		
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24		
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2014-05-16		
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	2014-05-16		
8	Coaxial Cable	SGS	N/A	SEL0025	2014-05-29		
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	2014-05-24		



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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	2014-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2014-05-16
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	2014-05-16
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2014-05-29
10	Coaxial cable	SGS	N/A	SEL0189	2014-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2014-05-29
12	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
13	Band filter	Amindeon	82346	SEL0094	2014-05-16
14	Barometer	Chang Chun	DYM3	SEL0088	2014-05-24
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	2014-05-16
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2014-06-04



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	RF connected test				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	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	2014-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2014-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2014-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2014-05-16
8	Band filter	amideon	82346	SEL0094	2014-05-16
9	POWER METER	R&S	NRVS	SEL0144	2014-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2014-05-16
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 1.51dBi.



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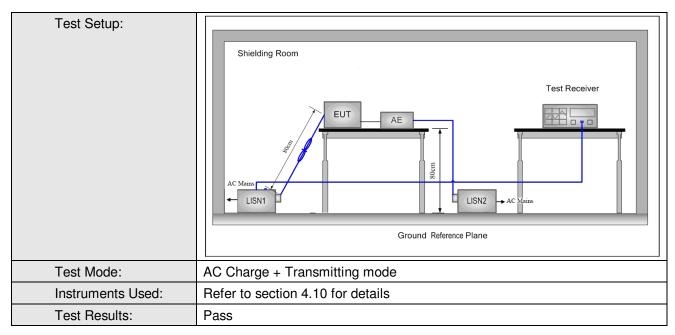
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Fraguency range (MHz)	Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithr	n of the frequency.			
Test Procedure:	 The mains terminal disturbance voltage test was conducted in room. The EUT was connected to AC power source through a LISN 1 Impedance Stabilization Network) which provides a 50Ω/5 linear impedance. The power cables of all other units of the EUT wer connected to a second LISN 2, which was bonded to reference plane in the same way as the LISN 1 for the unit being measur multiple socket outlet strip was used to connect multiple power a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m a ground reference plane. And for floor-standing arrangemen 				
	was placed on the horizontal gr 4) The test was performed with of the EUT shall be 0.4 m vertical ground reference preference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated er social properties of the maximum equipment and all of the in ANSI C63.10: 2009 on corrections.	ith a vertical ground ref from the vertical ground plane was bonded to the I 1 was placed 0.8 m from the to a ground reference und reference plane. The sof the LISN 1 and the quipment was at least 0 um emission, the relativaterface cables must be	d reference plane. To e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units 0.8 m from the LISN we positions of	he he of 2.	



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Measurement Data

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

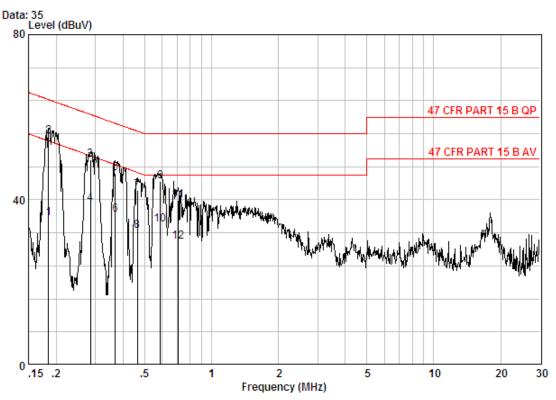
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

EUT : 6200RF

Mode : AC Charge + TX

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18443	0.02	9.70	25.82	35.54	54.28	-18.74	Average
2 @	0.18443	0.02	9.70	45.67	55.39	64.28	-8.89	QP
3	0.28478	0.01	9.70	39.99	49.70	60.68	-10.97	QP
4	0.28478	0.01	9.70	29.37	39.08	50.68	-11.59	Average
5	0.36920	0.01	9.77	36.69	46.48	58.52	-12.04	QP
6	0.36920	0.01	9.77	26.71	36.50	48.52	-12.02	Average
7	0.46367	0.01	9.80	32.43	42.24	56.63	-14.38	QP
8	0.46367	0.01	9.80	22.61	32.42	46.63	-14.21	Average
9	0.58851	0.01	9.80	34.68	44.50	56.00	-11.50	QP
10	0.58851	0.01	9.80	24.17	33.98	46.00	-12.02	Average
11	0.70842	0.02	9.80	30.16	39.98	56.00	-16.02	QP
12	0.70842	0.02	9.80	20.14	29.96	46.00	-16.04	Average

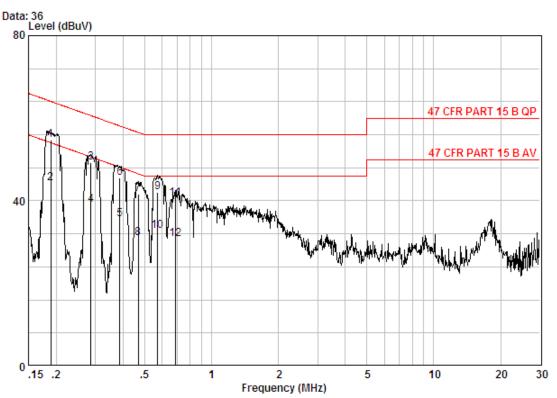




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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

EUT : 6200RF

Mode : AC Charge + TX

	Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18938	0.02	9.70	44.99	54.71	64.06	-9.36	QP
2	0.18938	0.02	9.70	34.50	44.22	54.06	-9.84	Average
3	0.28630	0.01	9.70	39.50	49.22	60.63	-11.42	QP
4	0.28630	0.01	9.70	29.37	39.08	50.63	-11.55	Average
5	0.38724	0.01	9.79	25.82	35.62	48.12	-12.50	Average
6	0.38724	0.01	9.79	35.68	45.48	58.12	-12.64	QP
7	0.46861	0.01	9.80	31.87	41.68	56.54	-14.86	QP
8	0.46861	0.01	9.80	21.16	30.97	46.54	-15.57	Average
9	0.57313	0.01	9.80	32.30	42.11	56.00	-13.89	QP
10	0.57313	0.01	9.80	22.82	32.63	46.00	-13.37	Average
11	0.68626	0.02	9.80	30.78	40.60	56.00	-15.40	QP
12	0.68626	0.02	9.80	20.81	30.63	46.00	-15.37	Average

Notes:

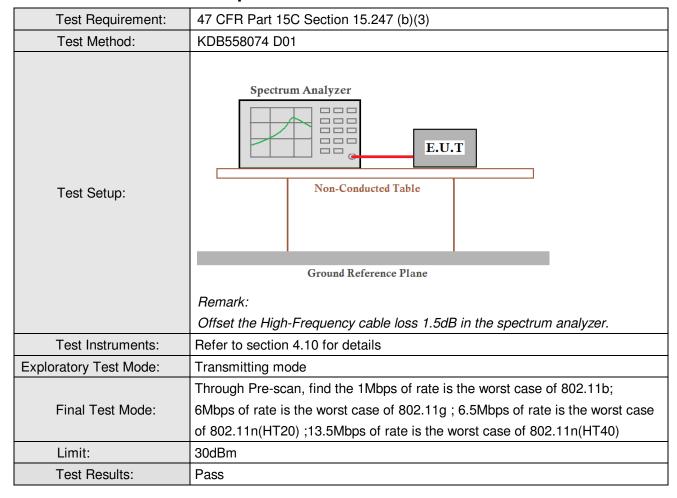
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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5.3 Conducted Peak Output Power





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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)	16.10	16.02	16.05	16.08				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	15.75	15.32	15.06	15.24	15.43	15.63	15.46	15.48
Mode		802.11n(HT20)						
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	15.44	15.32	15.23	15.26	15.36	15.41	15.37	15.24
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	15.12	15.11	15.02	15.06	15.09	14.98	15.06	15.07

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

Wedsurement Data						
802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	16.10	30.00	Pass			
Middle	16.82	30.00	Pass			
Highest	16.69	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	15.75	30.00	Pass			
Middle	16.34	30.00	Pass			
Highest	16.66	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	15.44	30.00	Pass			
Middle	15.97	30.00	Pass			
Highest	16.53	30.00	Pass			
802.11n(HT40)mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	15.12	30.00	Pass			
Middle	15.81	30.00	Pass			
Highest	16.16	30.00	Pass			

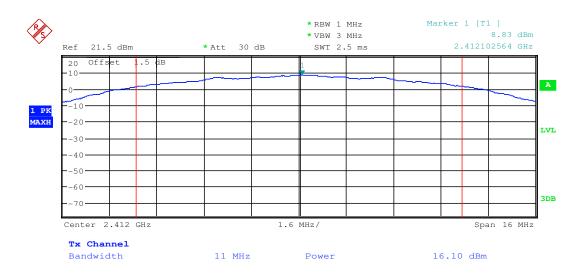


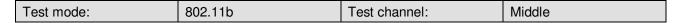
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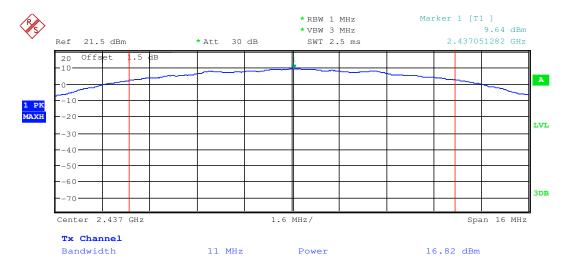
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





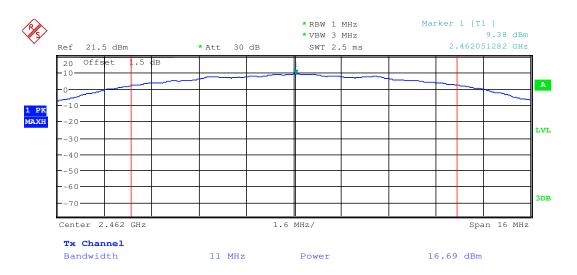




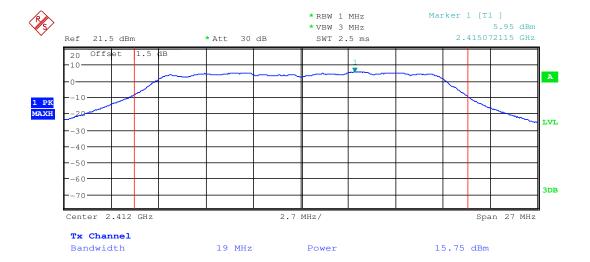
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

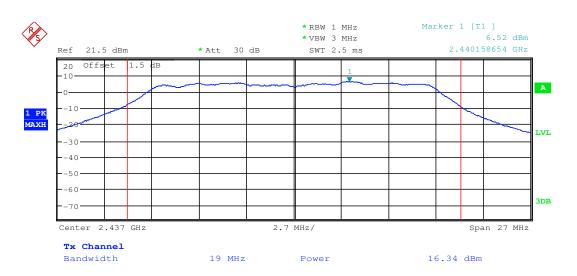




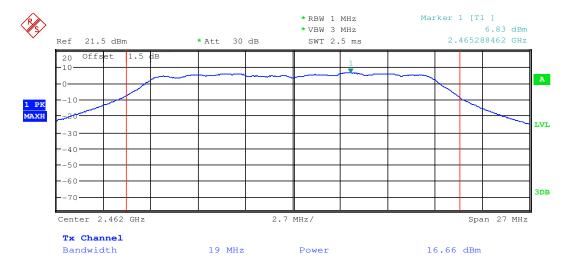
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

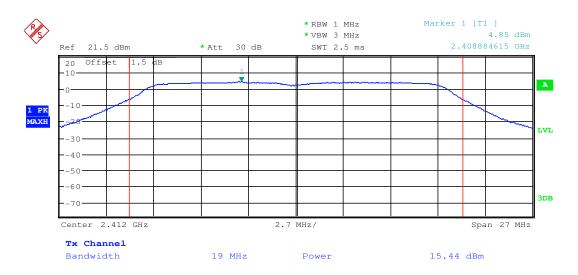




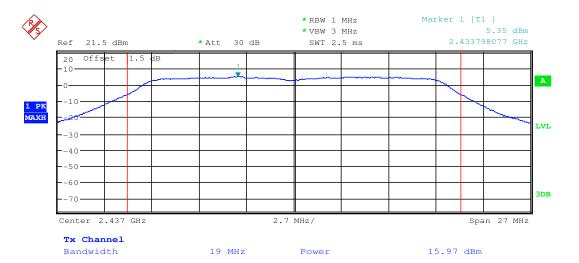
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode:	802.11n(HT20)	Test channel:	Middle
	00=:::(:::=0)		



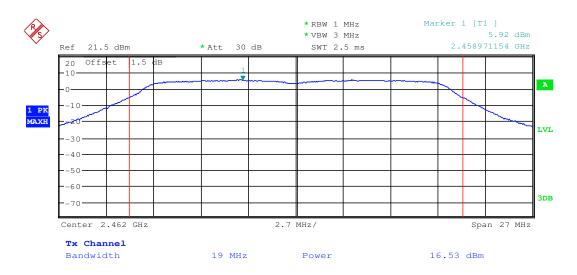




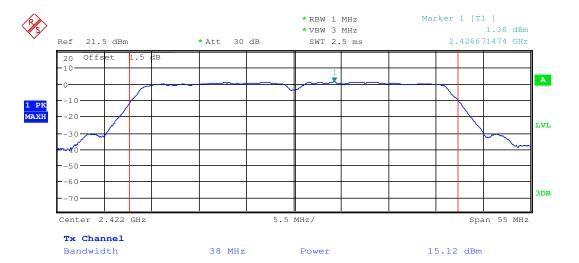
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Test mode: 802.11n(HT20) Test channel: Highest



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

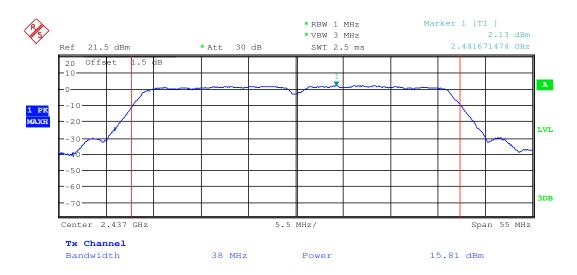




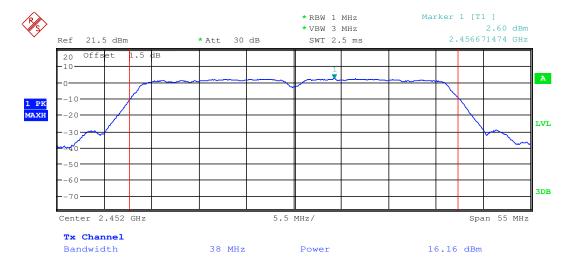
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Test mode: 802.11n(HT40) Test channel: Middle



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

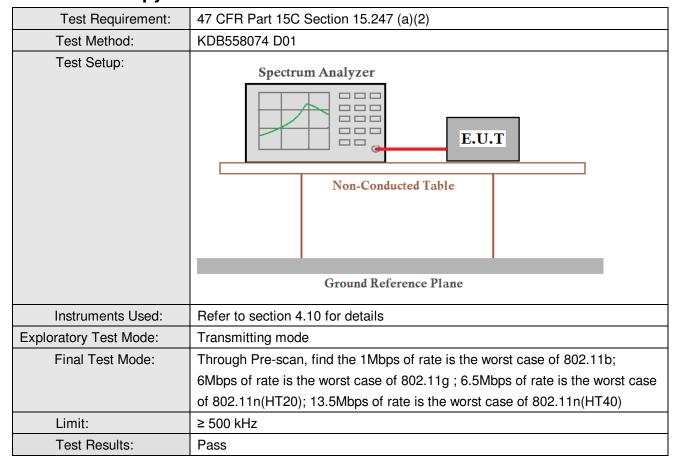




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5.4 6dB Occupy Bandwidth





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Measurement Data

WCasarcincii Data							
	802.11b mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	10.192307692	≥500	Pass				
Middle	10.240384615	≥500	Pass				
Highest	10.240384615	≥500	Pass				
	802.11g mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	16.586538462	≥500	Pass				
Middle	16.586538462	≥500	Pass				
Highest	16.586538462	≥500	Pass				
	802.11n(HT20) mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	17.788461538	≥500	Pass				
Middle	17.788461538	≥500	Pass				
Highest	17.788461538	≥500	Pass				
	802.11n(HT40)mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	36.618589744	≥500	Pass				
Middle	36.698717949	≥500	Pass				
Highest	36.538461538	≥500	Pass				

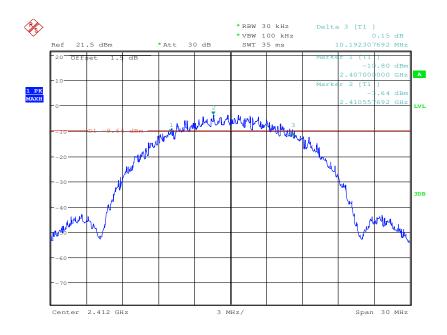


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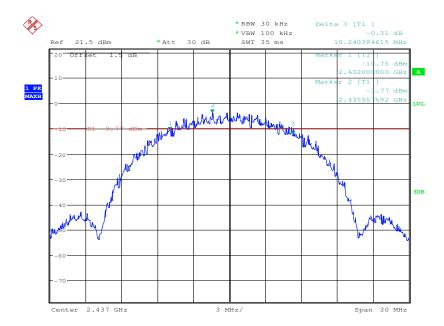
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Test plot as follows:

Test mode: 802.11b	Test channel:	Lowest
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Test mode: 802.11b Test channel: Middle

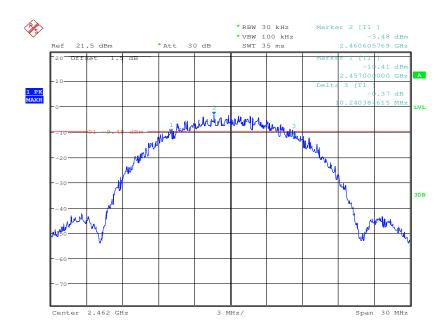




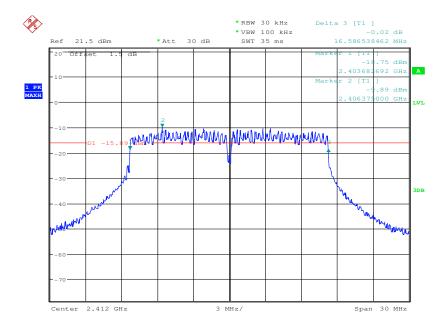
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Test mode: 802.11b Test channel: Highest





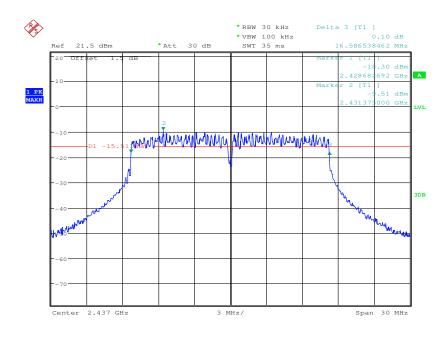




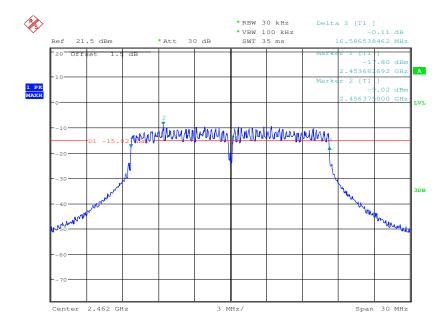
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

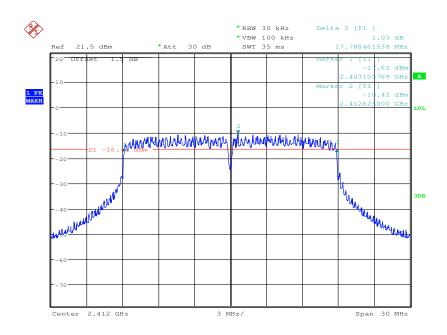




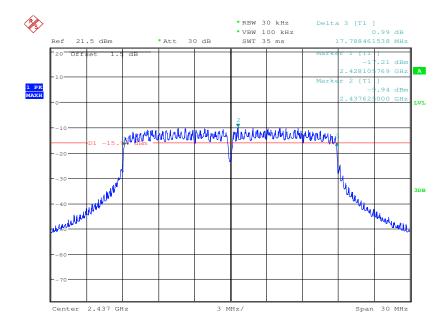
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Test mode: 802.11n(HT20) Test channel: Lowest





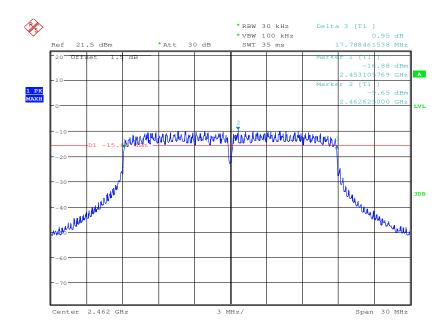




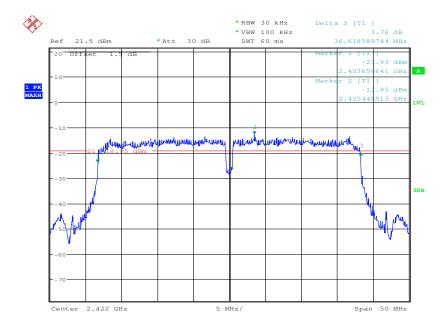
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Test mode: 802.11n(HT20) Test channel: Highest





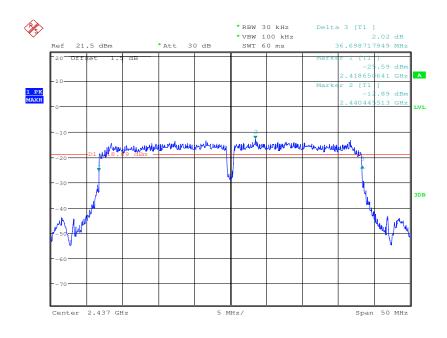




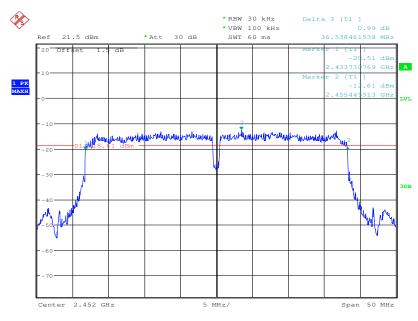
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode: 802.11n(HT40) 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				
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); 13.5Mbps of rate is the worst case of 802.11n (HT40)				
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	-12.46	≤8.00	Pass				
Middle	-12.08	≤8.00	Pass				
Highest	-11.50	≤8.00	Pass				
	802.11g mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result				
Lowest	-19.69	≤8.00	Pass				
Middle	-19.24	≤8.00	Pass				
Highest	-18.84	≤8.00	Pass				
	802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result				
Lowest	-21.43	≤8.00	Pass				
Middle	-21.68	≤8.00	Pass				
Highest	-20.79	≤8.00	Pass				
	802.11n(HT40) mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result				
Lowest	-23.37	≤8.00	Pass				
Middle	-23.93	≤8.00	Pass				
Highest	-22.83	≤8.00	Pass				

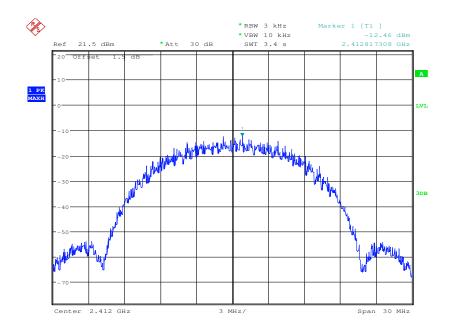


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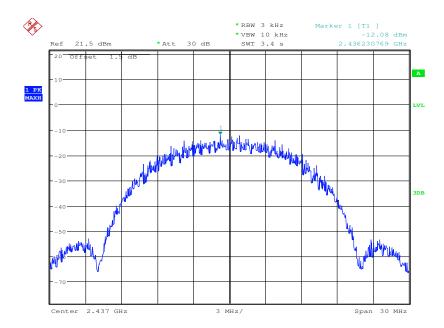
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

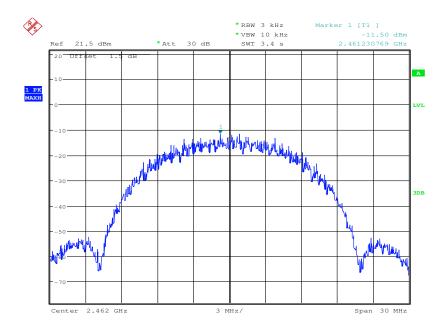




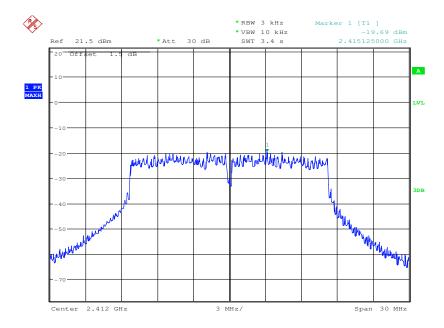
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Test mode: 802.11b Test channel: Highest





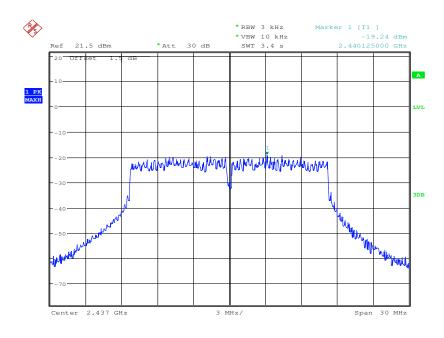




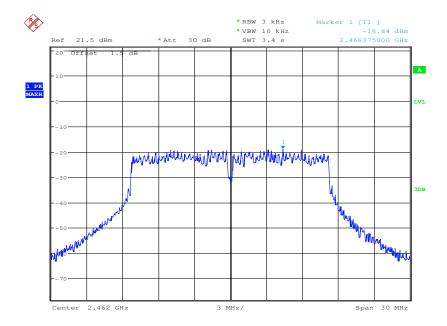
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Test mode: 802.11g Test channel: Middle





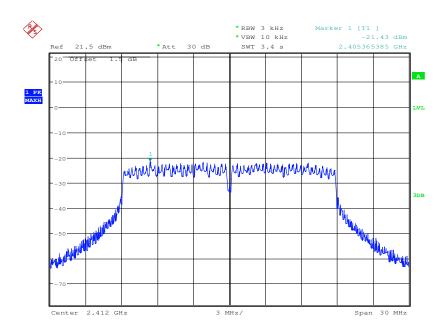




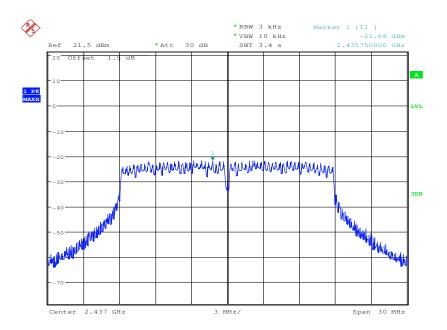
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Test mode: 802.11n(HT20) Test channel: Lowest





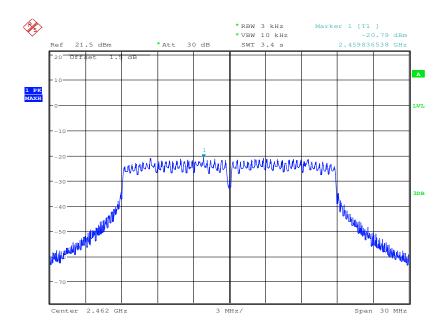




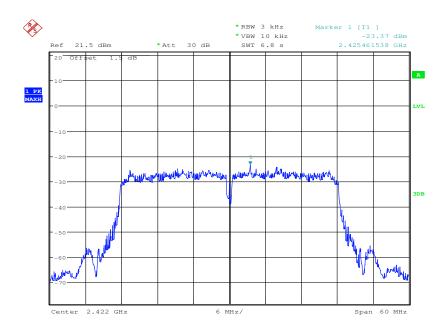
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Test mode: 802.11n(HT20) Test channel: Highest





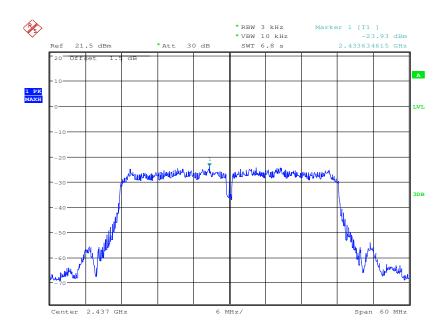




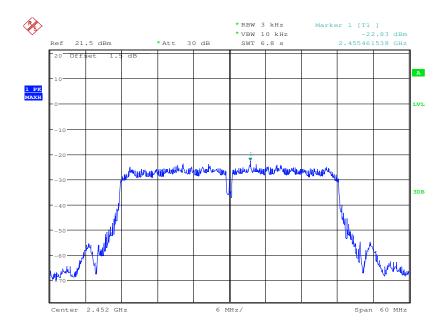
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Test mode: 802.11n(HT40) Test channel: Middle









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5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	KDB558074 D01					
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 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					
Limit:	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). 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					

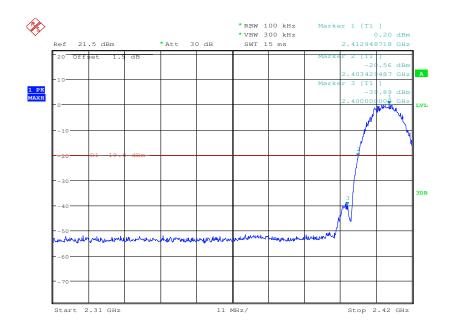


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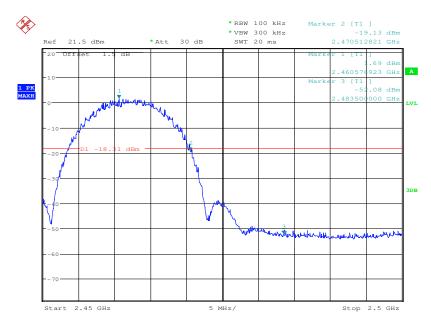
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest



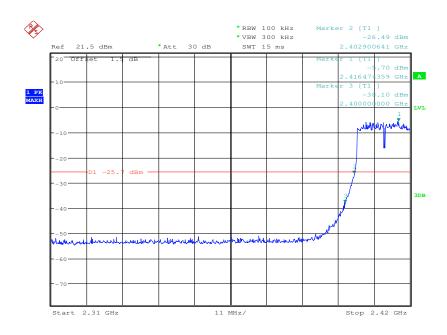




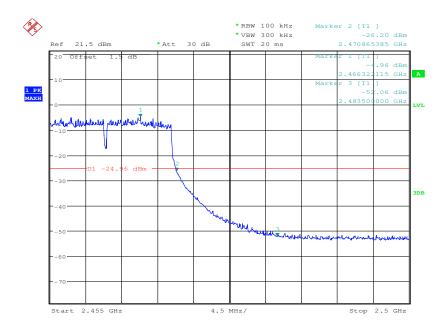
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Test mode: 802.11g Test channel: Lowest





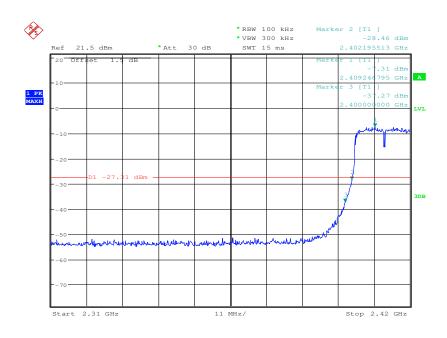




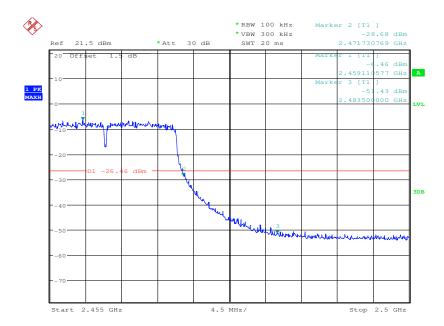
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Test mode: 802.11n(HT20) Test channel: Lowest



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

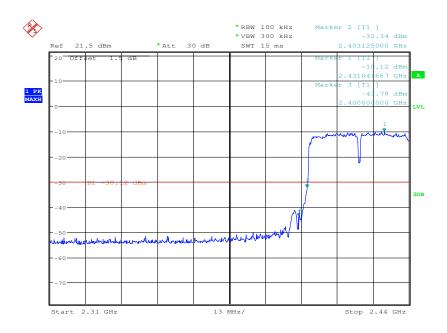




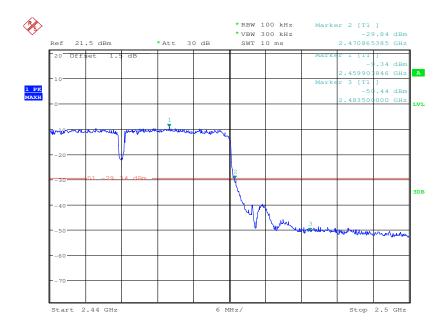
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Test mode: 802.11n(HT40) Test channel: Lowest









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5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01
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 mode
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
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

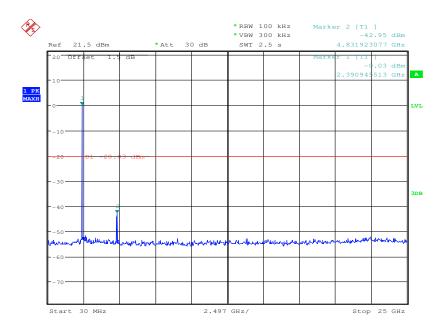


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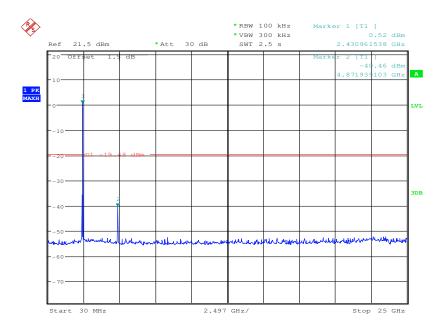
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

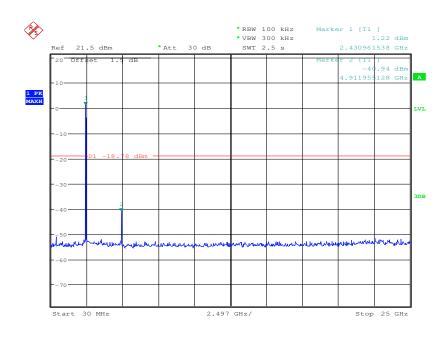




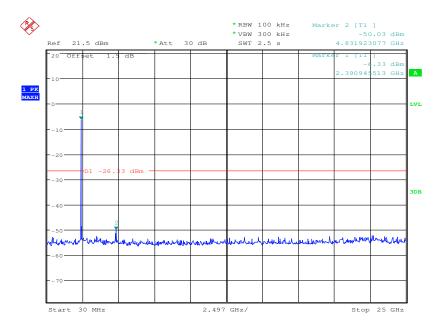
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

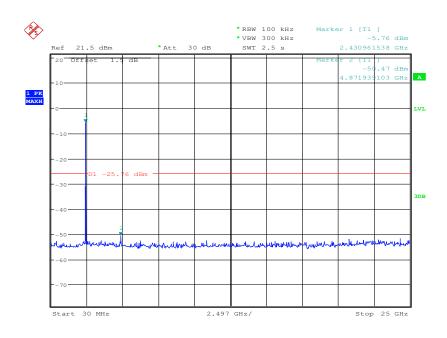




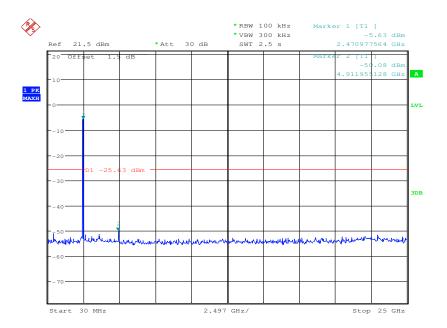
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

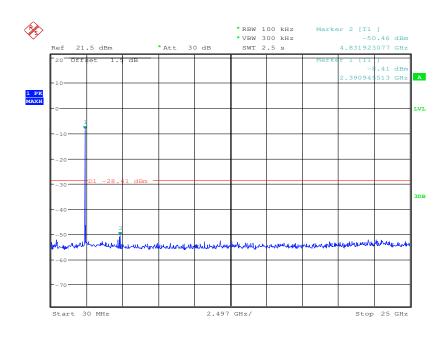




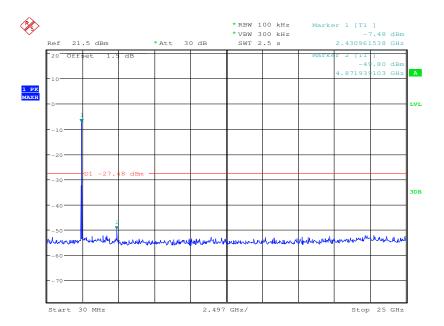
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Test mode: 802.11n(HT20) Test channel: Lowest



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

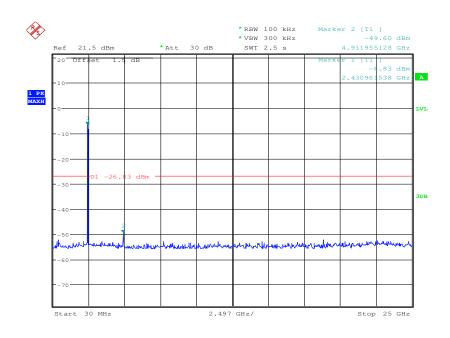




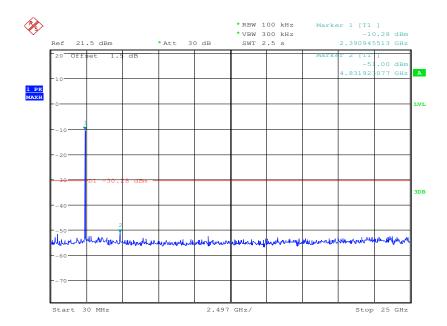
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Test mode: 802.11n(HT20) Test channel: Highest





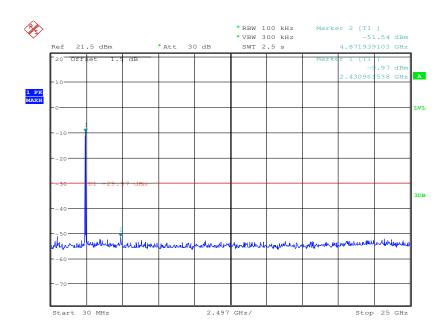




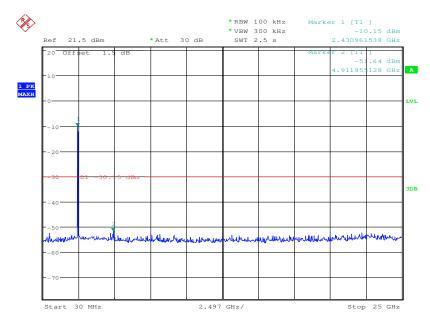
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Test mode: 802.11n(HT40) Test channel: Middle



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







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5.8 Radiated Spurious Emissions

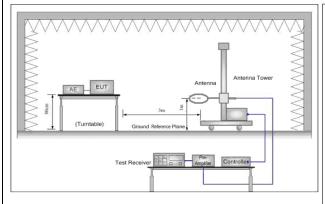
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2009									
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	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 1G112	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 of	therwise specified,	the limit on	peak radio fre	equency					
	emissions is 20dB		•	_						
	applicable to the peak		·	eak limit app	olies to the total					
	emission level rad	iated by the device	9.							



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Test Setup:



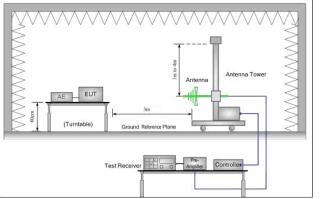


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

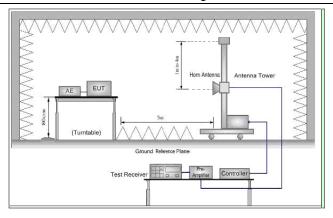


Figure 3. Above 1 GHz

Test Procedure:

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



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	method as specified and then reported in a data sheet.					
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
	h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.					
	i. Repeat above procedures until all frequencies measured was complete.					
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);13.5Mbps of rate is the worst case of 802.11n(HT40)					
Instruments Used:	Refer to section 4.10 for details					
Test Results:	Pass					

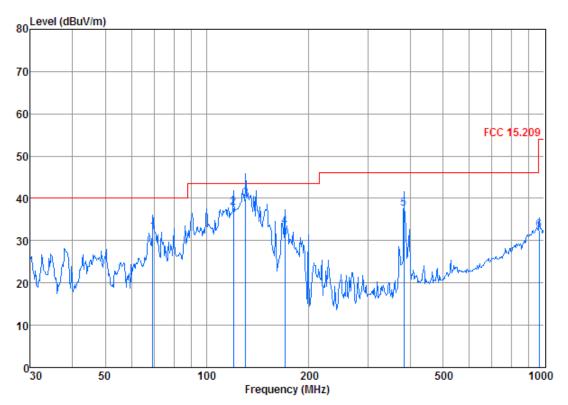


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5.8.1 Radiated emission below 1GHz

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



Condition: FCC 15.209 3m 3142C VERTICAL

Job No : 6200RF

Test mode: AC charge + TX mode

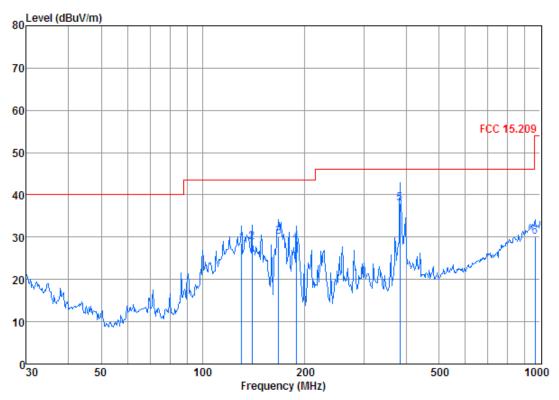
				LCVCI	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 69.11 2 119.86 3 130.38 4 170.19 5 383.93 6 965.54	0.80 1.25 1.28 1.35 2.16 3.67	9.00 11.66	27. 25 27. 07 27. 01 26. 82 27. 03 26. 47	57. 39 49. 71 50. 73	39.87	43.50 43.50 43.50 46.00	-3.63



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Test mode:	AC Charge + Transmitting	Horizontal
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Condition: FCC 15.209 3m 3142C HORIZONTAL

Job No : 6200RF

Test mode: AC charge + TX mode

	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	dBuV/m	dB
1 2 3 4 5 6	130.38 139.85 167.82 189.07 383.93 965.54	1. 28 1. 30 1. 35 1. 38 2. 16 3. 67	8. 21 8. 60 9. 25 6. 77 11. 66 21. 13	27. 01 26. 96 26. 82 26. 74 27. 03 26. 47	46.06 45.88 46.35 47.31 51.09 31.75	28. 54 28. 82 30. 13 28. 72 37. 88 30. 08	43.50 43.50 43.50 46.00	-14.96 -14.68 -13.37 -14.78 -8.12 -23.92



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5.8.2 Transmitter emission above 1GHz

Test mode:	802	.11b	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2972.750	5.04	33.35	40.28	47.13	45.24	74	-28.76	Vertical
3854.077	6.26	33.63	40.93	47.32	46.28	74	-27.72	Vertical
4824.000	7.45	34.68	41.64	52.52	53.01	74	-20.99	Vertical
7236.000	8.76	35.90	39.85	48.68	53.49	74	-20.51	Vertical
9648.000	9.69	37.36	37.76	46.58	55.87	74	-18.13	Vertical
12210.020	11.37	39.11	38.36	46.90	59.02	74	-14.98	Vertical
2972.750	5.04	33.35	40.28	47.15	45.26	74	-28.74	Horizontal
3795.660	6.18	33.55	40.88	47.86	46.71	74	-27.29	Horizontal
4824.000	7.45	34.68	41.64	53.20	53.69	74	-20.31	Horizontal
7236.000	8.76	35.90	39.85	48.33	53.14	74	-20.86	Horizontal
9648.000	9.69	37.36	37.76	45.59	54.88	74	-19.12	Horizontal
12117.140	11.33	39.02	38.32	47.92	59.95	74	-14.05	Horizontal

Test mode:	802	.11b	Test ch	annel:	Lowest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
2972.750	5.04	33.35	40.28	35.91	34.02	54	-19.98	Vertical
3854.077	6.26	33.63	40.93	36.03	34.99	54	-19.01	Vertical
4824.000	7.45	34.68	41.64	47.84	48.33	54	-5.67	Vertical
7236.000	8.76	35.90	39.85	35.65	40.46	54	-13.54	Vertical
9648.000	9.69	37.36	37.76	33.28	42.57	54	-11.43	Vertical
12210.020	11.37	39.11	38.36	33.82	45.94	54	-8.06	Vertical
2972.750	5.04	33.35	40.28	35.84	33.95	54	-20.05	Horizontal
3795.660	6.18	33.55	40.88	35.63	34.48	54	-19.52	Horizontal
4824.000	7.45	34.68	41.64	47.22	47.71	54	-6.29	Horizontal
7236.000	8.76	35.90	39.85	36.05	40.86	54	-13.14	Horizontal
9648.000	9.69	37.36	37.76	33.51	42.80	54	-11.20	Horizontal
12117.140	11.33	39.02	38.32	34.68	46.71	54	-7.29	Horizontal



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Test mode:	802	.11b	Test ch	annel:	Middle	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2875.986	4.97	33.21	40.21	47.90	45.87	74	-28.13	Vertical
3700.260	6.05	33.45	40.81	48.31	47.00	74	-27.00	Vertical
4874.000	7.48	34.59	41.68	54.68	55.07	74	-18.93	Vertical
7311.000	8.85	35.92	39.79	48.31	53.29	74	-20.71	Vertical
9748.000	9.74	37.46	37.68	45.44	54.96	74	-19.04	Vertical
12178.980	11.36	39.09	38.35	46.07	58.17	74	-15.83	Vertical
2957.654	5.02	33.33	40.27	47.17	45.25	74	-28.75	Horizontal
3844.279	6.26	33.61	40.93	47.40	46.34	74	-27.66	Horizontal
4874.000	7.48	34.59	41.68	57.38	57.77	74	-16.23	Horizontal
7311.000	8.85	35.92	39.79	48.30	53.28	74	-20.72	Horizontal
9748.000	9.74	37.46	37.68	45.23	54.75	74	-19.25	Horizontal
12303.620	11.41	39.21	38.40	46.63	58.85	74	-15.15	Horizontal

Test mode:	802	.11b	Test ch	annel:	Middle	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
2875.986	4.97	33.21	40.21	35.78	33.75	54	-20.25	Vertical
3700.260	6.05	33.45	40.81	35.67	34.36	54	-19.64	Vertical
4874.000	7.48	34.59	41.68	49.44	49.83	54	-4.17	Vertical
7311.000	8.85	35.92	39.79	36.45	41.43	54	-12.57	Vertical
9748.000	9.74	37.46	37.68	33.35	42.87	54	-11.13	Vertical
12178.980	11.36	39.09	38.35	33.01	45.11	54	-8.89	Vertical
2957.654	5.02	33.33	40.27	34.87	32.95	54	-21.05	Horizontal
3844.279	6.26	33.61	40.93	35.68	34.62	54	-19.38	Horizontal
4874.000	7.48	34.59	41.68	52.96	53.35	54	-0.65	Horizontal
7311.000	8.85	35.92	39.79	36.10	41.08	54	-12.92	Horizontal
9748.000	9.74	37.46	37.68	32.61	42.13	54	-11.87	Horizontal
12303.620	11.41	39.21	38.40	33.92	46.14	54	-7.86	Horizontal



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Test mode:	802	.11b	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3033.908	5.12	33.39	40.33	47.40	45.58	74	-28.42	Vertical
3913.393	6.33	33.70	40.97	47.88	46.94	74	-27.06	Vertical
4924.000	7.51	34.51	41.72	55.29	55.59	74	-18.41	Vertical
7386.000	8.94	35.96	39.72	47.77	52.95	74	-21.05	Vertical
9848.000	9.78	37.54	37.58	44.91	54.65	74	-19.35	Vertical
12148.020	11.35	39.06	38.34	47.23	59.30	74	-14.70	Vertical
2965.192	5.04	33.35	40.27	48.39	46.51	74	-27.49	Horizontal
3738.129	6.11	33.49	40.84	48.99	47.75	74	-26.25	Horizontal
4924.000	7.51	34.51	41.72	57.29	57.59	74	-16.41	Horizontal
7386.000	8.94	35.96	39.72	47.99	53.17	74	-20.83	Horizontal
9848.000	9.78	37.54	37.58	45.96	55.70	74	-18.30	Horizontal
12272.340	11.40	39.18	38.39	46.77	58.96	74	-15.04	Horizontal

Test mode:	8	02.11b	Test ch	annel:	Highest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	factors	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3033.908	5.12	33.39	40.33	35.48	33.66	54	-20.34	Vertical
3913.393	6.33	33.70	40.97	36.16	35.22	54	-18.78	Vertical
4924.000	7.51	34.51	41.72	49.95	50.25	54	-3.75	Vertical
7386.000	8.94	35.96	39.72	35.61	40.79	54	-13.21	Vertical
9848.000	9.78	37.54	37.58	33.11	42.85	54	-11.15	Vertical
12148.020	11.3	39.06	38.34	34.57	46.64	54	-7.36	Vertical
2965.192	5.04	33.35	40.27	36.99	35.11	54	-18.89	Horizontal
3738.129	6.11	33.49	40.84	35.52	34.28	54	-19.72	Horizontal
4924.000	7.51	34.51	41.72	51.02	51.32	54	-2.68	Horizontal
7386.000	8.94	35.96	39.72	35.13	40.31	54	-13.69	Horizontal
9848.000	9.78	37.54	37.58	33.26	43.00	54	-11.00	Horizontal
12272.340	11.40	39.18	38.39	34.27	46.46	54	-7.54	Horizontal



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Test mode:	802	.11g	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2987.923	5.05	33.38	40.30	46.42	44.55	74	-29.45	Vertical
3873.749	6.28	33.66	40.94	46.57	45.57	74	-28.43	Vertical
4824.000	7.45	34.68	41.64	49.51	50.00	74	-24.00	Vertical
7236.000	8.76	35.90	39.85	47.21	52.02	74	-21.98	Vertical
9648.000	9.69	37.36	37.76	45.16	54.45	74	-19.55	Vertical
12148.020	11.35	39.06	38.34	46.29	58.36	74	-15.64	Vertical
3096.325	5.19	33.37	40.37	48.53	46.72	74	-27.28	Horizontal
3933.367	6.38	33.74	40.98	46.37	45.51	74	-28.49	Horizontal
4824.000	7.45	34.68	41.64	49.72	50.21	74	-23.79	Horizontal
7236.000	8.76	35.90	39.85	47.12	51.93	74	-22.07	Horizontal
9648.000	9.69	37.36	37.76	45.55	54.84	74	-19.16	Horizontal
12086.330	11.32	38.99	38.31	46.76	58.76	74	-15.24	Horizontal

Test mode:	802	.11g	Test ch	annel:	Lowest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
2987.923	5.05	33.38	40.30	35.86	33.99	54	-20.01	Vertical
3873.749	6.28	33.66	40.94	35.47	34.47	54	-19.53	Vertical
4824.000	7.45	34.68	41.64	38.89	39.38	54	-14.62	Vertical
7236.000	8.76	35.90	39.85	35.88	40.69	54	-13.31	Vertical
9648.000	9.69	37.36	37.76	32.97	42.26	54	-11.74	Vertical
12148.020	11.35	39.06	38.34	32.42	44.49	54	-9.51	Vertical
3096.325	5.19	33.37	40.37	37.04	35.23	54	-18.77	Horizontal
3933.367	6.38	33.74	40.98	34.94	34.08	54	-19.92	Horizontal
4824.000	7.45	34.68	41.64	38.06	38.55	54	-15.45	Horizontal
7236.000	8.76	35.90	39.85	34.91	39.72	54	-14.28	Horizontal
9648.000	9.69	37.36	37.76	32.25	41.54	54	-12.46	Horizontal
12086.330	11.32	38.99	38.31	34.60	46.60	54	-7.40	Horizontal



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Test mode:	802	.11g	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3018.502	5.09	33.39	40.31	47.39	45.56	74	-28.44	Vertical
4086.459	6.57	34.08	41.09	47.81	47.37	74	-26.63	Vertical
4874.000	7.48	34.59	41.68	52.95	53.34	74	-20.66	Vertical
7311.000	8.85	35.92	39.79	46.54	51.52	74	-22.48	Vertical
9748.000	9.74	37.46	37.68	44.89	54.41	74	-19.59	Vertical
12148.020	11.35	39.06	38.34	45.81	57.88	74	-16.12	Vertical
2942.635	5.01	33.31	40.26	46.83	44.89	74	-29.11	Horizontal
3913.393	6.33	33.70	40.97	48.37	47.43	74	-26.57	Horizontal
4874.000	7.48	34.59	41.68	54.47	54.86	74	-19.14	Horizontal
7311.000	8.85	35.92	39.79	47.15	52.13	74	-21.87	Horizontal
9748.000	9.74	37.46	37.68	44.76	54.28	74	-19.72	Horizontal
12366.420	11.43	39.28	38.43	46.66	58.94	74	-15.06	Horizontal

Test mode:	802	.11g	Test ch	annel:	Middle	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
3018.502	5.09	33.39	40.31	35.04	33.21	54	-20.79	Vertical
4086.459	6.57	34.08	41.09	36.39	35.95	54	-18.05	Vertical
4874.000	7.48	34.59	41.68	40.67	41.06	54	-12.94	Vertical
7311.000	8.85	35.92	39.79	35.48	40.46	54	-13.54	Vertical
9748.000	9.74	37.46	37.68	32.82	42.34	54	-11.66	Vertical
12148.020	11.35	39.06	38.34	32.36	44.43	54	-9.57	Vertical
2942.635	5.01	33.31	40.26	34.85	32.91	54	-21.09	Horizontal
3913.393	6.33	33.70	40.97	36.86	35.92	54	-18.08	Horizontal
4874.000	7.48	34.59	41.68	42.43	42.82	54	-11.18	Horizontal
7311.000	8.85	35.92	39.79	36.00	40.98	54	-13.02	Horizontal
9748.000	9.74	37.46	37.68	33.31	42.83	54	-11.17	Horizontal
12366.420	11.43	39.28	38.43	32.04	44.32	54	-9.68	Horizontal



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Test mode:	80	2.11g	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2987.923	5.05	33.38	40.30	46.55	44.68	74	-29.32	Vertical
3923.367	6.36	33.72	40.98	47.85	46.95	74	-27.05	Vertical
4924.000	7.51	34.51	41.72	52.65	52.95	74	-21.05	Vertical
7386.000	8.94	35.96	39.72	47.51	52.69	74	-21.31	Vertical
9848.000	9.78	37.54	37.58	45.73	55.47	74	-18.53	Vertical
12148.020	11.35	39.06	38.34	46.58	58.65	74	-15.35	Vertical
2942.635	5.01	33.31	40.26	47.01	45.07	74	-28.93	Horizontal
3953.443	6.41	33.76	41.00	47.31	46.48	74	-27.52	Horizontal
4924.000	7.51	34.51	41.72	51.34	51.64	74	-22.36	Horizontal
7386.000	8.94	35.96	39.72	47.73	52.91	74	-21.09	Horizontal
9848.000	9.78	37.54	37.58	45.68	55.42	74	-18.58	Horizontal
12303.620	11.41	39.21	38.40	46.74	58.96	74	-15.04	Horizontal

Test mode:	802	.11g	Test ch	annel:	Highest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
2987.923	5.05	33.38	40.30	33.77	31.90	54	-22.10	Vertical
3923.367	6.36	33.72	40.98	34.27	33.37	54	-20.63	Vertical
4924.000	7.51	34.51	41.72	41.56	41.86	54	-12.14	Vertical
7386.000	8.94	35.96	39.72	35.81	40.99	54	-13.01	Vertical
9848.000	9.78	37.54	37.58	33.25	42.99	54	-11.01	Vertical
12148.020	11.35	39.06	38.34	32.32	44.39	54	-9.61	Vertical
2942.635	5.01	33.31	40.26	36.79	34.85	54	-19.15	Horizontal
3953.443	6.41	33.76	41.00	36.06	35.23	54	-18.77	Horizontal
4924.000	7.51	34.51	41.72	39.37	39.67	54	-14.33	Horizontal
7386.000	8.94	35.96	39.72	35.19	40.37	54	-13.63	Horizontal
9848.000	9.78	37.54	37.58	32.63	42.37	54	-11.63	Horizontal
12303.620	11.41	39.21	38.40	33.78	46.00	54	-8.00	Horizontal



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Test mode:	802	.11n(HT20)	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3010.828	5.07	33.40	40.31	48.04	46.20	74	-27.80	Vertical
3776.385	6.16	33.53	40.87	47.66	46.48	74	-27.52	Vertical
4824.000	7.45	34.68	41.64	49.42	49.91	74	-24.09	Vertical
7236.000	8.76	35.90	39.85	46.29	51.10	74	-22.90	Vertical
9648.000	9.69	37.36	37.76	45.13	54.42	74	-19.58	Vertical
12272.340	11.40	39.18	38.39	45.84	58.03	74	-15.97	Vertical
2965.192	5.04	33.35	40.27	47.16	45.28	74	-28.72	Horizontal
3766.785	6.13	33.53	40.87	47.48	46.27	74	-27.73	Horizontal
4824.000	7.45	34.68	41.64	47.53	48.02	74	-25.98	Horizontal
7236.000	8.76	35.90	39.85	46.88	51.69	74	-22.31	Horizontal
9648.000	9.69	37.36	37.76	45.29	54.58	74	-19.42	Horizontal
12178.980	11.36	39.09	38.35	46.31	58.41	74	-15.59	Horizontal

Test mode:	802	.11n(HT20)	Test ch	annel:	Lowest	Remark		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
3010.828	5.07	33.40	40.31	37.49	35.65	54	-18.35	Vertical
3776.385	6.16	33.53	40.87	35.56	34.38	54	-19.62	Vertical
4824.000	7.45	34.68	41.64	38.21	38.70	54	-15.30	Vertical
7236.000	8.76	35.90	39.85	34.23	39.04	54	-14.96	Vertical
9648.000	9.69	37.36	37.76	34.76	44.05	54	-9.95	Vertical
12272.340	11.40	39.18	38.39	32.44	44.63	54	-9.37	Vertical
2965.192	5.04	33.35	40.27	35.18	33.30	54	-20.70	Horizontal
3766.785	6.13	33.53	40.87	34.13	32.92	54	-21.08	Horizontal
4824.000	7.45	34.68	41.64	35.24	35.73	54	-18.27	Horizontal
7236.000	8.76	35.90	39.85	33.70	38.51	54	-15.49	Horizontal
9648.000	9.69	37.36	37.76	33.86	43.15	54	-10.85	Horizontal
12178.980	11.36	39.09	38.35	33.14	45.24	54	-8.76	Horizontal



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Test mode:	808	2.11n(HT20)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2912.824	5.00	33.28	40.24	46.43	44.47	74	-29.53	Vertical
3883.622	6.31	33.68	40.95	47.78	46.82	74	-27.18	Vertical
4874.000	7.48	34.59	41.68	53.76	54.15	74	-19.85	Vertical
7311.000	8.85	35.92	39.79	48.02	53.00	74	-21.00	Vertical
9748.000	9.74	37.46	37.68	45.05	54.57	74	-19.43	Vertical
11842.690	11.17	38.74	38.21	45.61	57.31	74	-16.69	Vertical
2920.248	5.00	33.28	40.24	46.73	44.77	74	-29.23	Horizontal
3786.010	6.16	33.55	40.88	47.07	45.90	74	-28.10	Horizontal
4874.000	7.48	34.59	41.68	54.29	54.68	74	-19.32	Horizontal
7311.000	8.85	35.92	39.79	47.55	52.53	74	-21.47	Horizontal
9748.000	9.74	37.46	37.68	45.04	54.56	74	-19.44	Horizontal
12303.620	11.41	39.21	38.40	46.09	58.31	74	-15.69	Horizontal

Test mode:	802	.11n(HT20)	Test ch	annel:	Middle	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
2912.824	5.00	33.28	40.24	34.36	32.40	54	-21.60	Vertical
3883.622	6.31	33.68	40.95	36.58	35.62	54	-18.38	Vertical
4874.000	7.48	34.59	41.68	40.73	41.12	54	-12.88	Vertical
7311.000	8.85	35.92	39.79	36.53	41.51	54	-12.49	Vertical
9748.000	9.74	37.46	37.68	33.86	43.38	54	-10.62	Vertical
11842.690	11.17	38.74	38.21	33.07	44.77	54	-9.23	Vertical
2920.248	5.00	33.28	40.24	34.13	32.17	54	-21.83	Horizontal
3786.010	6.16	33.55	40.88	35.34	34.17	54	-19.83	Horizontal
4874.000	7.48	34.59	41.68	40.46	40.85	54	-13.15	Horizontal
7311.000	8.85	35.92	39.79	34.48	39.46	54	-14.54	Horizontal
9748.000	9.74	37.46	37.68	33.42	42.94	54	-11.06	Horizontal
12303.620	11.41	39.21	38.40	33.09	45.31	54	-8.69	Horizontal



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Test mode:		802.	.11n(HT20)	Test ch	annel:	Highest	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)	Polarization
2972.750	5.0)4	33.35	40.28	46.59	44.70	74	-29.30	Vertical
4107.316	6.5	59	34.13	41.12	47.94	47.54	74	-26.46	Vertical
4924.000	7.5	51	34.51	41.72	53.46	53.76	74	-20.24	Vertical
7386.000	8.9	94	35.96	39.72	46.78	51.96	74	-22.04	Vertical
9848.000	9.7	78	37.54	37.58	45.23	54.97	74	-19.03	Vertical
12366.420	11.4	43	39.28	38.43	46.60	58.88	74	-15.12	Vertical
2987.923	5.0)5	33.38	40.30	46.71	44.84	74	-29.16	Horizontal
3933.367	6.3	38	33.74	40.98	47.62	46.76	74	-27.24	Horizontal
4924.000	7.5	51	34.51	41.72	49.93	50.23	74	-23.77	Horizontal
7386.000	8.9	94	35.96	39.72	47.93	53.11	74	-20.89	Horizontal
9848.000	9.7	78	37.54	37.58	45.98	55.72	74	-18.28	Horizontal
12210.020	11.3	37	39.11	38.36	46.27	58.39	74	-15.61	Horizontal

Test mode:	802	.11n(HT20)	Test ch	annel:	Highest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
2972.750	5.04	33.35	40.28	34.43	32.54	54	-21.46	Vertical
4107.316	6.59	34.13	41.12	36.81	36.41	54	-17.59	Vertical
4924.000	7.51	34.51	41.72	39.62	39.92	54	-14.08	Vertical
7386.000	8.94	35.96	39.72	35.83	41.01	54	-12.99	Vertical
9848.000	9.78	37.54	37.58	33.83	43.57	54	-10.43	Vertical
12366.420	11.43	39.28	38.43	32.56	44.84	54	-9.16	Vertical
2987.923	5.05	33.38	40.30	34.81	32.94	54	-21.06	Horizontal
3933.367	6.38	33.74	40.98	35.66	34.80	54	-19.20	Horizontal
4924.000	7.51	34.51	41.72	37.83	38.13	54	-15.87	Horizontal
7386.000	8.94	35.96	39.72	36.74	41.92	54	-12.08	Horizontal
9848.000	9.78	37.54	37.58	32.35	42.09	54	-11.91	Horizontal
12210.020	11.37	39.11	38.36	33.01	45.13	54	-8.87	Horizontal



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Test mode:	802	.11n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3033.908	5.12	33.39	40.33	47.18	45.36	74	-28.64	Vertical
3893.520	6.31	33.68	40.95	46.65	45.69	74	-28.31	Vertical
4844.000	7.46	34.65	41.65	49.06	49.52	74	-24.48	Vertical
7266.000	8.81	35.91	39.82	47.01	51.91	74	-22.09	Vertical
9688.000	9.71	37.39	37.73	44.38	53.75	74	-20.25	Vertical
12303.620	11.41	39.21	38.40	46.92	59.14	74	-14.86	Vertical
2912.824	5.00	33.28	40.24	46.34	44.38	74	-29.62	Horizontal
3824.757	6.21	33.59	40.91	46.40	45.29	74	-28.71	Horizontal
4844.000	7.46	34.65	41.65	47.20	47.66	74	-26.34	Horizontal
7266.000	8.81	35.91	39.82	47.32	52.22	74	-21.78	Horizontal
9688.000	9.71	37.39	37.73	45.31	54.68	74	-19.32	Horizontal
12148.020	11.35	39.06	38.34	47.16	59.23	74	-14.77	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Lowest	Remark	-	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
3033.908	5.12	33.39	40.33	35.16	33.34	54	-20.66	Vertical
3893.520	6.31	33.68	40.95	33.01	32.05	54	-21.95	Vertical
4844.000	7.46	34.65	41.65	36.71	37.17	54	-16.83	Vertical
7266.000	8.81	35.91	39.82	34.34	39.24	54	-14.76	Vertical
9688.000	9.71	37.39	37.73	31.86	41.23	54	-12.77	Vertical
12303.620	11.41	39.21	38.40	32.98	45.20	54	-8.80	Vertical
2912.824	5.00	33.28	40.24	34.32	32.36	54	-21.64	Horizontal
3824.757	6.21	33.59	40.91	33.57	32.46	54	-21.54	Horizontal
4844.000	7.46	34.65	41.65	35.02	35.48	54	-18.52	Horizontal
7266.000	8.81	35.91	39.82	34.42	39.32	54	-14.68	Horizontal
9688.000	9.71	37.39	37.73	32.57	41.94	54	-12.06	Horizontal
12148.020	11.35	39.06	38.34	32.84	44.91	54	-9.09	Horizontal



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Test mode:	802	.11n(HT40)	Test ch	annel:	Middle	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2927.691	5.01	33.28	40.24	47.14	45.19	74	-28.81	Vertical
3834.506	6.23	33.61	40.91	46.85	45.78	74	-28.22	Vertical
4874.000	7.48	34.59	41.68	50.40	50.79	74	-23.21	Vertical
7311.000	8.85	35.92	39.79	47.91	52.89	74	-21.11	Vertical
9748.000	9.74	37.46	37.68	44.88	54.40	74	-19.60	Vertical
12241.140	11.38	39.14	38.38	47.16	59.30	74	-14.70	Vertical
2942.635	5.01	33.31	40.26	47.14	45.20	74	-28.80	Horizontal
3863.900	6.28	33.63	40.94	47.16	46.13	74	-27.87	Horizontal
4874.000	7.48	34.59	41.68	48.25	48.64	74	-25.36	Horizontal
7311.000	8.85	35.92	39.79	48.01	52.99	74	-21.01	Horizontal
9748.000	9.74	37.46	37.68	44.69	54.21	74	-19.79	Horizontal
12086.330	11.32	38.99	38.31	46.63	58.63	74	-15.37	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Middle	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
2927.691	5.01	33.28	40.24	34.26	32.31	54	-21.69	Vertical
3834.506	6.23	33.61	40.91	35.17	34.10	54	-19.90	Vertical
4874.000	7.48	34.59	41.68	38.32	38.71	54	-15.29	Vertical
7311.000	8.85	35.92	39.79	34.45	39.43	54	-14.57	Vertical
9748.000	9.74	37.46	37.68	32.35	41.87	54	-12.13	Vertical
12241.140	11.38	39.14	38.38	34.07	46.21	54	-7.79	Vertical
2942.635	5.01	33.31	40.26	35.35	33.41	54	-20.59	Horizontal
3863.900	6.28	33.63	40.94	35.58	34.55	54	-19.45	Horizontal
4874.000	7.48	34.59	41.68	35.49	35.88	54	-18.12	Horizontal
7311.000	8.85	35.92	39.79	33.19	38.17	54	-15.83	Horizontal
9748.000	9.74	37.46	37.68	31.44	40.96	54	-13.04	Horizontal
12086.330	11.32	38.99	38.31	31.36	43.36	54	-10.64	Horizontal



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Test mode:		802.	.11n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cak Lo: (dE	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2920.248	5.0	00	33.28	40.24	46.68	44.72	74	-29.28	Vertical
3873.749	6.2	28	33.66	40.94	47.26	46.26	74	-27.74	Vertical
4904.000	7.4	19	34.54	41.70	50.22	50.55	74	-23.45	Vertical
7356.000	8.9	92	35.94	39.74	48.30	53.42	74	-20.58	Vertical
9808.000	9.7	76	37.51	37.61	45.08	54.74	74	-19.26	Vertical
12178.980	11.	36	39.09	38.35	46.25	58.35	74	-15.65	Vertical
2920.248	5.0	00	33.28	40.24	46.64	44.68	74	-29.32	Horizontal
3786.010	6.1	16	33.55	40.88	47.58	46.41	74	-27.59	Horizontal
4904.000	7.4	19	34.54	41.70	48.07	48.40	74	-25.60	Horizontal
7356.000	8.9	92	35.94	39.74	48.19	53.31	74	-20.69	Horizontal
9808.000	9.7	76	37.51	37.61	45.47	55.13	74	-18.87	Horizontal
12397.940	11.	45	39.30	38.44	46.58	58.89	74	-15.11	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Highest	Remark	:	Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Polarization
2920.248	5.00	33.28	40.24	33.53	31.57	54	-22.43	Vertical
3873.749	6.28	33.66	40.94	35.64	34.64	54	-19.36	Vertical
4904.000	7.49	34.54	41.70	38.92	39.25	54	-14.75	Vertical
7356.000	8.92	35.94	39.74	35.35	40.47	54	-13.53	Vertical
9808.000	9.76	37.51	37.61	33.93	43.59	54	-10.41	Vertical
12178.980	11.36	39.09	38.35	34.75	46.85	54	-7.15	Vertical
2920.248	5.00	33.28	40.24	33.34	31.38	54	-22.62	Horizontal
3786.010	6.16	33.55	40.88	35.27	34.10	54	-19.90	Horizontal
4904.000	7.49	34.54	41.70	35.22	35.55	54	-18.45	Horizontal
7356.000	8.92	35.94	39.74	35.86	40.98	54	-13.02	Horizontal
9808.000	9.76	37.51	37.61	32.92	42.58	54	-11.42	Horizontal
12397.940	11.45	39.30	38.44	32.94	45.25	54	-8.75	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.

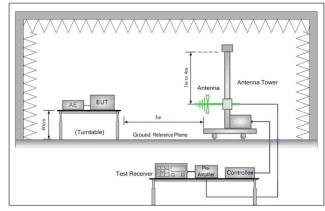


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5.9 Band Edge (Radiated Emission)

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 Chambe	er)				
Limit:	Frequency	Limit (dBuV/m @3m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak Value				
	88MHz-216MHz	43.5	Quasi-peak Value				
	216MHz-960MHz	46.0	Quasi-peak Value				
	960MHz-1GHz	54.0	Quasi-peak Value				
	Above 1GHz	54.0	Average Value				
	Above IGHZ	74.0	Peak Value				
Test Setup:							



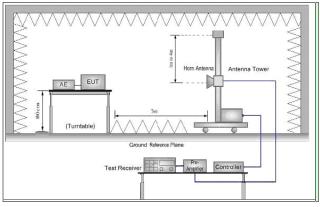


Figure 1. 30MHz to 1GHz

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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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 802.11n(HT40) Instruments Used: Refer to section 4.10 for details Test Results: Pass					
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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting mode Exploratory Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n (HT20); 13.5Mbps of rate is the worst case of 802.11n (HT40) Instruments Used: Refer to section 4.10 for details	Test Procedure:	ground at a 3 meter semi-anechoic camber. The table was rotated 360			
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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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 802.11n(HT20);13.5Mbps of rate is the worst case of 802.11n(HT40) Instruments Used: Refer to section 4.10 for details		antenna, which was mounted on the top of a variable-height antenna			
and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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(HT40) Instruments Used: 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 the			
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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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) Instruments Used: 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 find the			
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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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) Instruments Used: Refer to section 4.10 for details					
h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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) Instruments Used: Refer to section 4.10 for details		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each			
And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: 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) Instruments Used: Refer to section 4.10 for details		g. Test the EUT in the lowest channel, the Highest channel			
Exploratory Test Mode: 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) Instruments Used: Refer to section 4.10 for details		And found the X axis positioning which it is worse case, only the test			
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) Instruments Used: Refer to section 4.10 for details		i. Repeat above procedures until all frequencies measured was complete.			
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) Instruments Used: Refer to section 4.10 for details	Exploratory Test Mode:	Transmitting mode			
case of 802.11n(HT20);13.5Mbps of rate is the worst case of 802.11n(HT40) Instruments Used: Refer to section 4.10 for details	Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
Instruments Used: Refer to section 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);13.5Mbps of rate is the worst case of 802.11n(HT40)			
Test Results: Pass	Instruments Used:	Refer to section 4.10 for details			
	Test Results:	Pass			



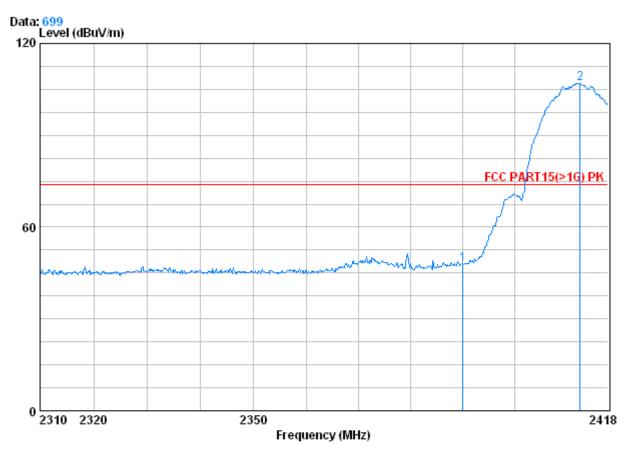


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Test plot as follows:

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



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

Job No. : 6200RF

Mode : 2412 Bandedge B

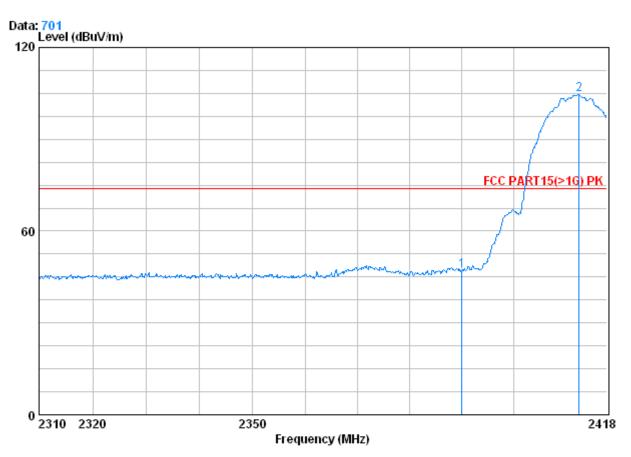
.040		Freq			Preamp Factor			Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	X	2390.000 2412.600							-26.21 32.92



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge B

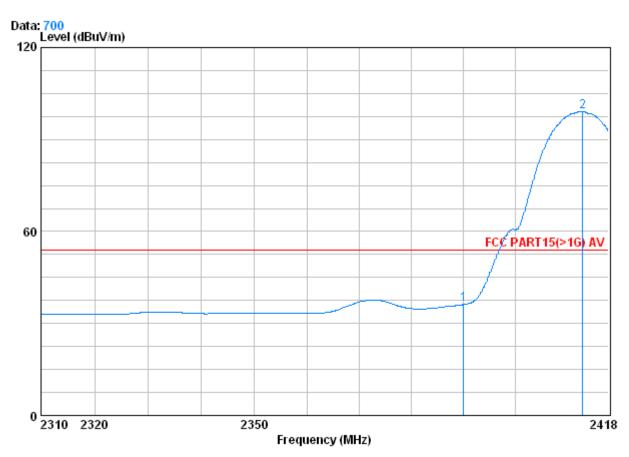
1046	. 2412 D	Freq			Preamp Factor			Limit Line	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2	X	2390.000 2412.600			39.85 39.86				



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



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

Job No. : 6200RF

Mode : 2412 Bandedge B

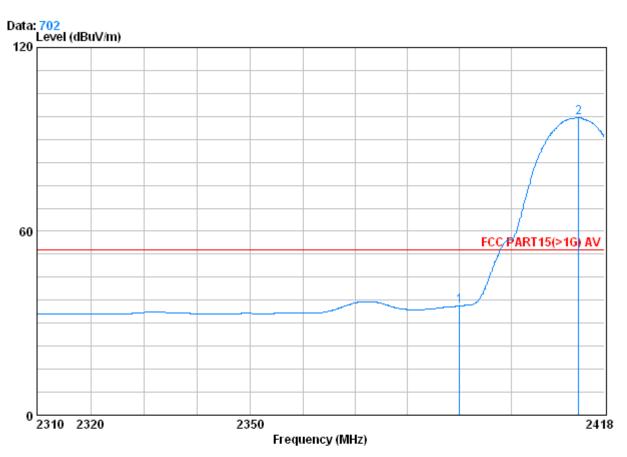
ioue	.2412 Danueuge D			-	Read Level	Level	Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 X	2390.000 2413.032					36.20 99.13		



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge B

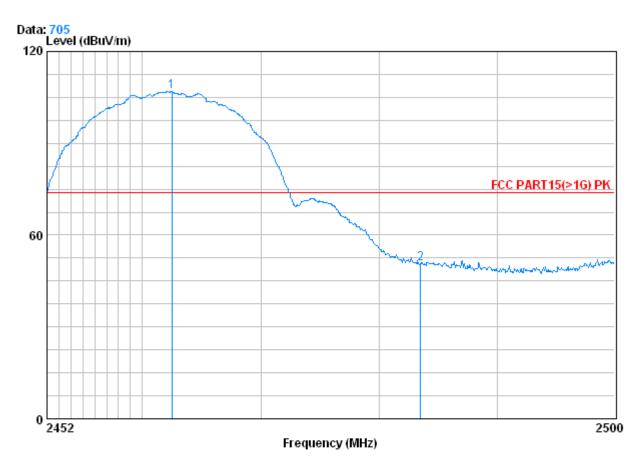
noue	. 2412 Danueuge D	Cablei	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	39.99	35.63	54.00	-18.37
2 X	2413.032	2.99	32.54	39.86	101.45	97.12	54.00	43.12



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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
WOUSE Case mode.	002.110	i cot chamici.	riigiicat	ricinant.	i can	VCItiCai



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

Job No. : 6200RF

Mode : 2462 Bandedge B

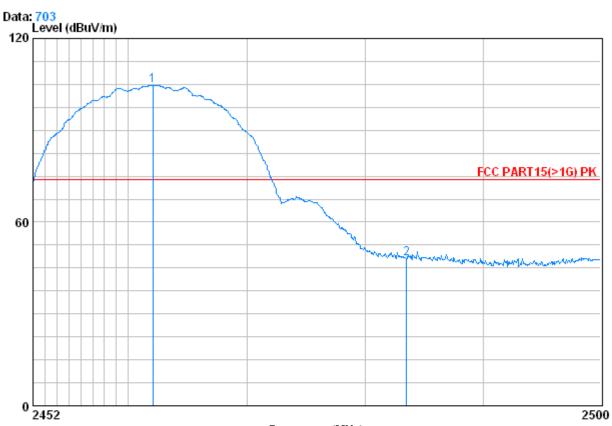
1046	,	Freq			_	Read Level			
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	X	2462.464	3.02	32.64	39.91	111.07	106.82	74.00	32.82
2		2483.500	3.03	32.67	39.92	54.86	50.64	74.00	-23.36



Report No.: SZEM131100620001

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Worse case mode	e: 802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
Worse case mout	5. 002.110	rest charmer.	riignesi	Hemaik.	i can	Honzontai



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge B

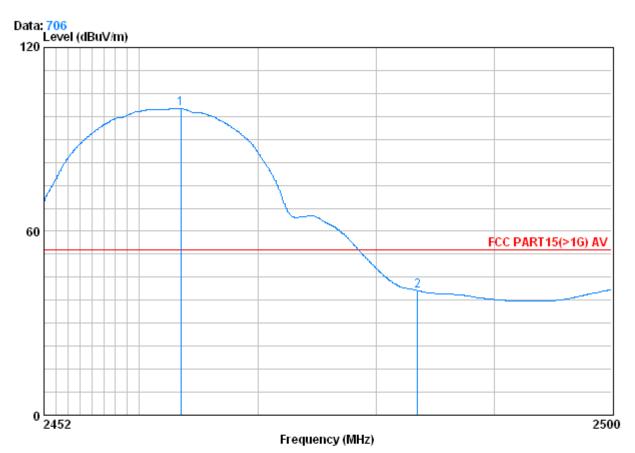
.040	. 2-02	Freq						Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	X	2462.080 2483.500							30.72 -25.88



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I worse case mode: 1802.110 Test channel: 1 Highest Remark: 1 Average Venical	Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 6200RF

Mode : 2462 Bandedge B

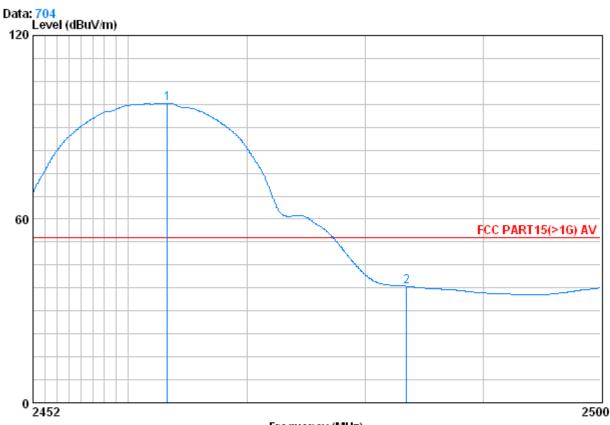
1046	. 2402 D	andede D	Cablei	Antenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2463.472	3.02	32.64	39.91	104.22	99.98	54.00	45.98
2		2483.500	3.03	32.67	39.92	44.89	40.67	54.00	-13.33



Report No.: SZEM131100620001

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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
Worde dade inicae.	002.110	1 Oot onamion.	i ngnoot	i tomant.	rivolago	110112011141



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge B

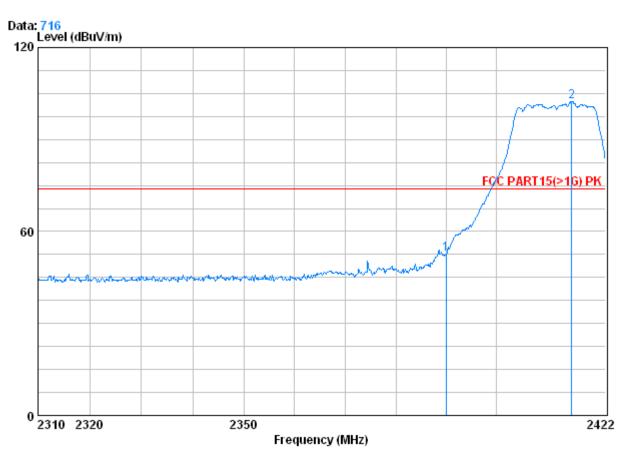
1040	Freq			Preamp Factor		Level	Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X 2	2463.280 2483.500					97.74 38.07		



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge G

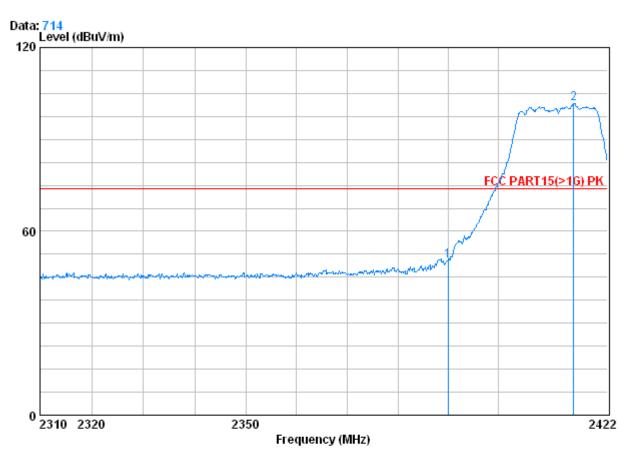
dode	.2412 bandedge G			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 X	2390.000 2415.168							-21.38 28.37



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge G

ioue		Freq			•			Limit Line	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	x	2390.000 2415.168							-23.55 27.72

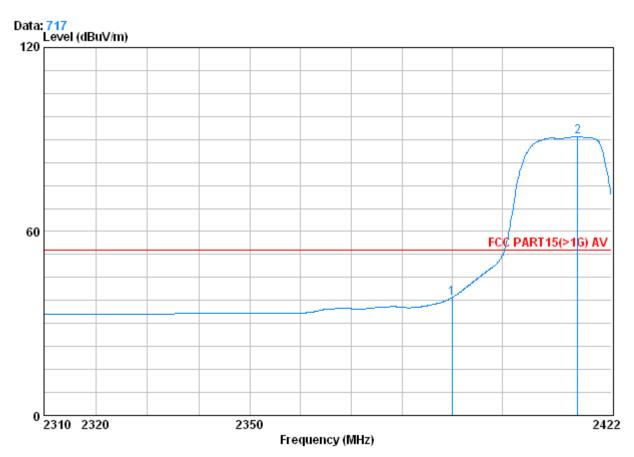




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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
WOUSE Case mode.	1 002.119	i cot chamici.	LOWCSL	i icilialik.	Avciago	Vortical



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

Job No. : 6200RF

Mode : 2412 Bandedge G

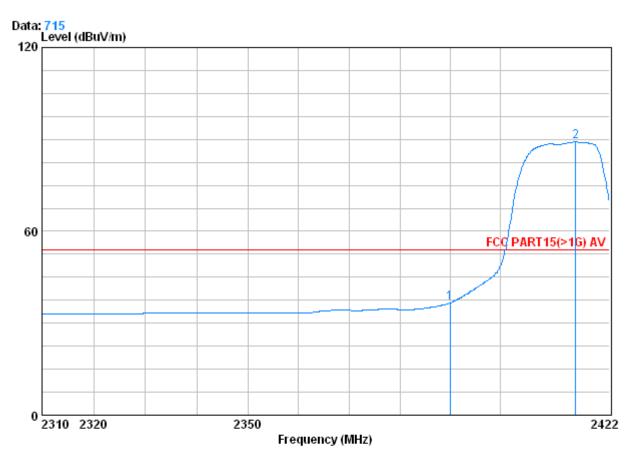
ioue	.2412 Bandedge G			Preamp Factor	Read Level		Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 @	2390.000 2415.168			39.85 39.86				



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge G

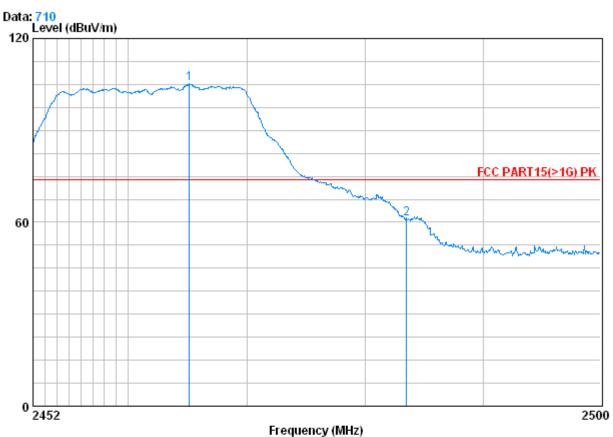
1040	Freq			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 X	2390.000 2415.168			39.85 39.86				



Report No.: SZEM131100620001

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
Worse case mode.	002.11g	rest chamber.	riigiicat	Heman.	i can	v Gi tiGai



: FCC PART15(>1G) PK 3m VERTICAL Condition Job No. :6200RF

Mode · 2462 Bandedge G

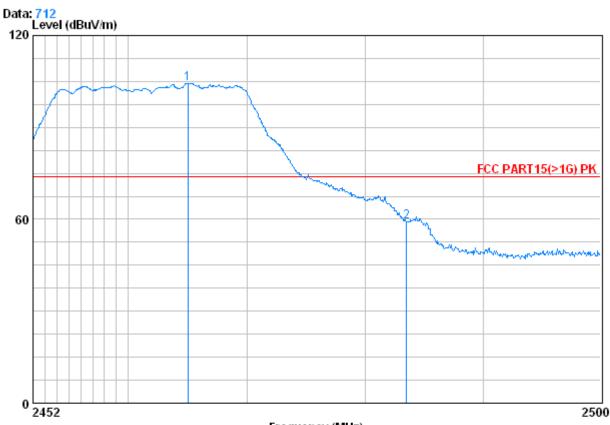
1046	5	.2402 Danueuge G	Cablei	Antenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	X	2465.152	3.02	32.64	39.91	109.37	105.13	74.00	31.13
2		2483.500	3.03	32.67	39.92	65.42	61.20	74.00	-12.80



Report No.: SZEM131100620001

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



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge G

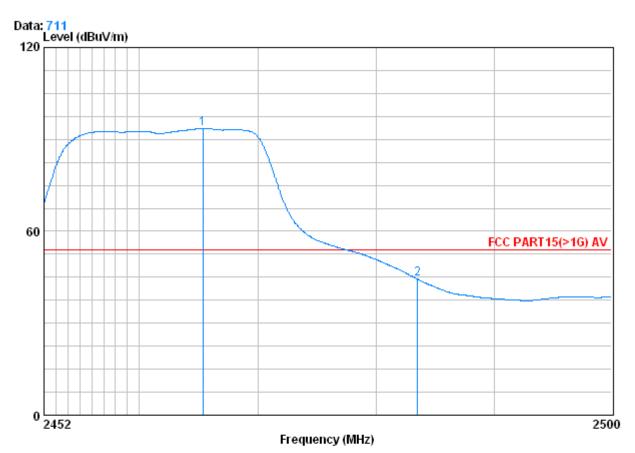
	Freq			•		Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X 2	2465.008 2483.500					104.43 59.18		



Report No.: SZEM131100620001

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
WOODC Case IIIoac.	1 002.11g	i cot chamici.	riigiicat	i icilialik.	Avciago	v Ci ticai



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

Job No. : 6200RF

Mode : 2462 Bandedge G

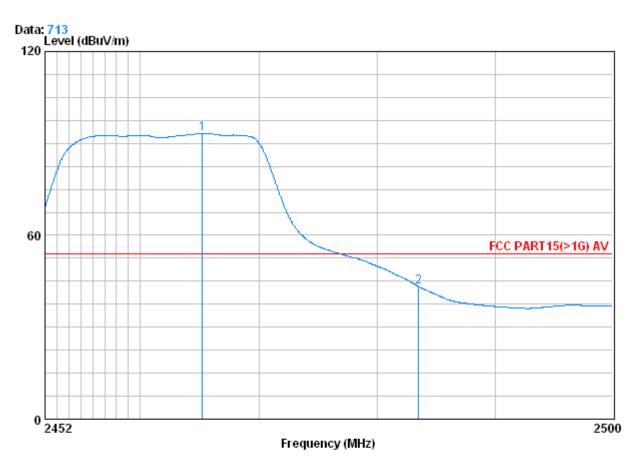
1046	Freq			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0 2	2465.344 2483.500			39.91 39.92				



Report No.: SZEM131100620001

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
TTOIGG GAGG IIIGAG.	002.119	i oot onamion.	riigiioot	i torriarit.	rivolago	110112011141



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

Job No. : 6200RF

Mode : 2462 Bandedge G

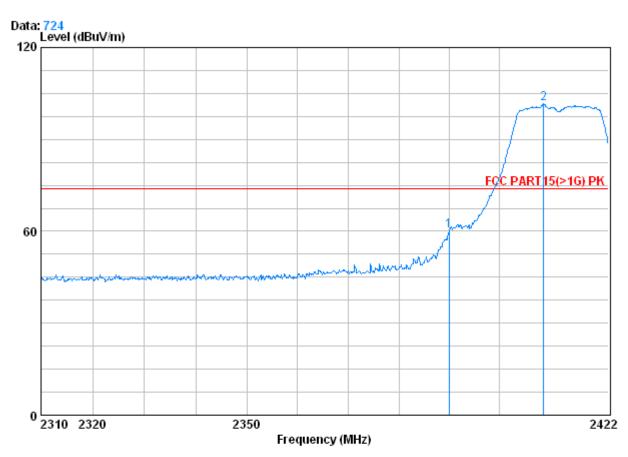
1046	Freq			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0 2	2465.200 2483.500			39.91 39.92				



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



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

Job No. : 6200RF

Mode : 2412 Bandedge N20

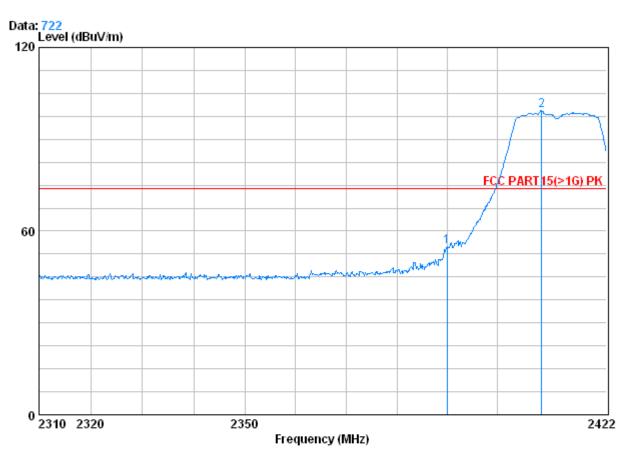
1046	. 2412 D	andedge 1420	Cablei	Antenna	Preamp	Read		Limit	Over
		Freq		Factor	•			Line	Limit
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.000	2.98	32.51	39.85	64.59	60.23	74.00	-13.77
2	X	2408.896	2.99	32.54	39.86	105.87	101.55	74.00	27.55



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge N20

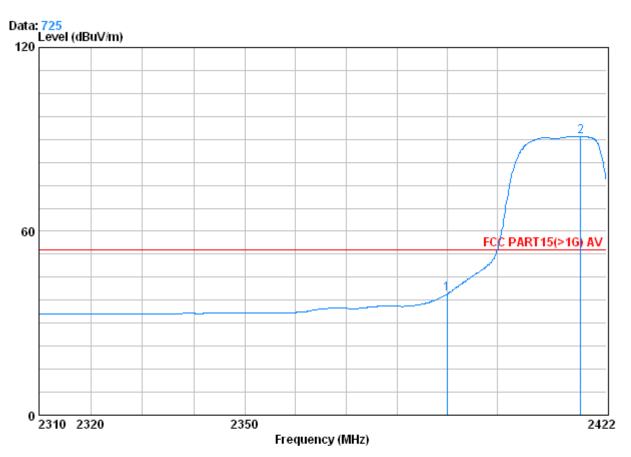
1046	. 2412 D	Freq		Antenna Factor	•		Level	Limit Line	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2	X	2390.000 2408.896					54.98 99.35		



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



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

Job No. : 6200RF

Mode : 2412 Bandedge N20

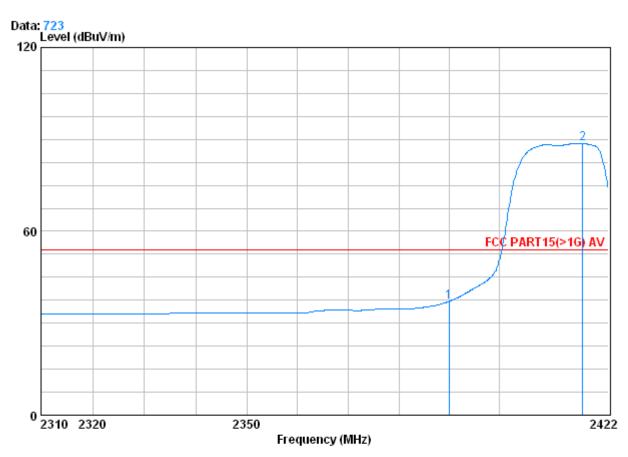
noue	. 2412 Dandeuge 1920	Coblei	Antenna	Droown	Dood		I imit	0
		capie	uncenna	rreamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
								
	MHz	dB	dB/m	ав	aBuv	dBuV/m	aBuv/m	dB
1	2390.000	2.98	32.51	39.85	43.78	39.43	54.00	-14.57
-	2050.000							11.0.
20	2416.848	2.99	32.54	39.88	95.34	91.00	54.00	37.00



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2412 Bandedge N20

1046	Freq			Preamp Factor	Read Level		Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 @	2390.000 2416.848			39.85 39.88				

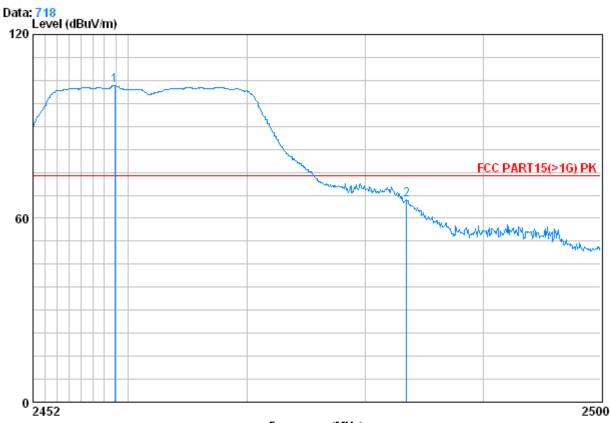




Report No.: SZEM131100620001

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Worse case mode:	802 11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
TTOIGG GAGG IIIGAG.	002.1111(11120)	1 Oot onamion.	i ngnoot	i tomant.	1 Oak	Voitioai



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge N20

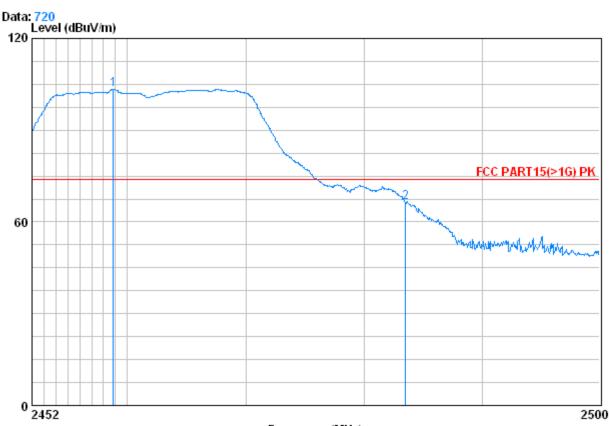
.040	Freq			•			Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @ 2	2458.864 2483.500						74.00 74.00	



Report No.: SZEM131100620001

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



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge N20

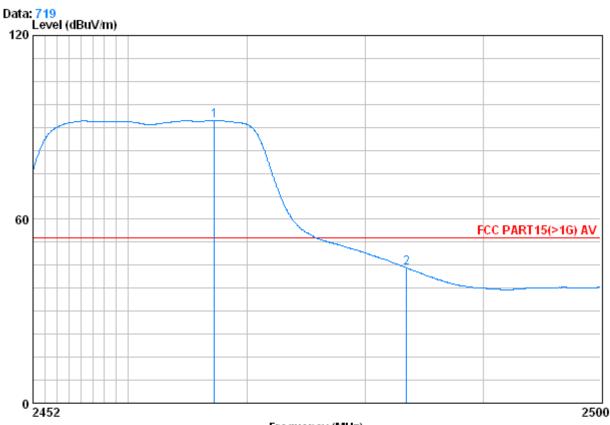
1040	Freq			•	Read Level		Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2458.816	3.02	32.64	39.91	107.57	103.32	74.00	29.32
2	2483.500	3.03	32.67	39.92	70.46	66.24	74.00	-7.76



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Worse case mode:	802 11n/HT20)	Test channel:	Highest	Remark:	Average	Vertical
Worse case mode.	002.1111(11120)	rest chamber.	riigiiest	riemaik.	Average	v Gi tiGai



Frequency (MHz)

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

Job No. : 6200RF

Mode : 2462 Bandedge N20

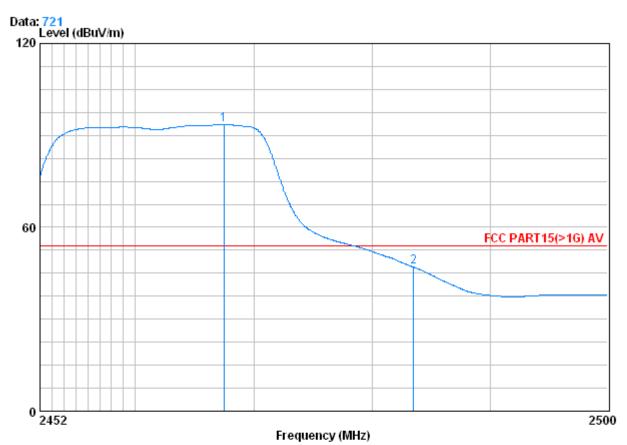
	Free			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	@ 2467.264 2483.500							



Report No.: SZEM131100620001

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Worse case mode:	802 11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
TTOTOG GAGGO TITOGG.	002.1111(11120)	1 oot onamion.	riigiioot	i torriarit.	, worago	i ionzonia



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

Job No. : 6200RF

Mode : 2462 Bandedge N20

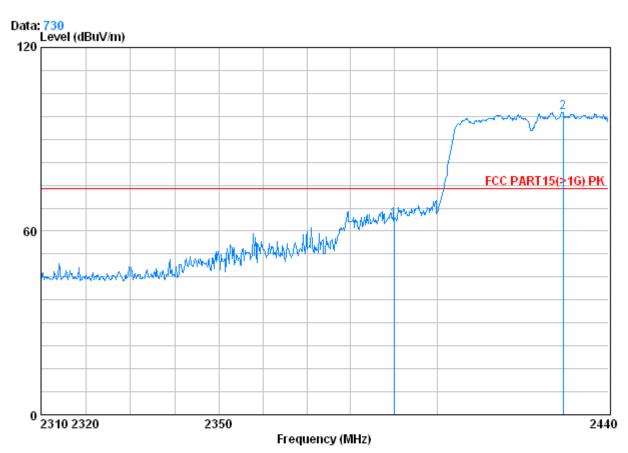
иc	Jue	. 2402 Danueuge 1420	Cable	Antenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	1 0	2467.456	3.02	32.64	39.91	97.77	93.52	54.00	39.52
	2	2483.500	3.03	32.67	39.92	51.21	46.99	54.00	-7.01



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2422 Bandedge N40

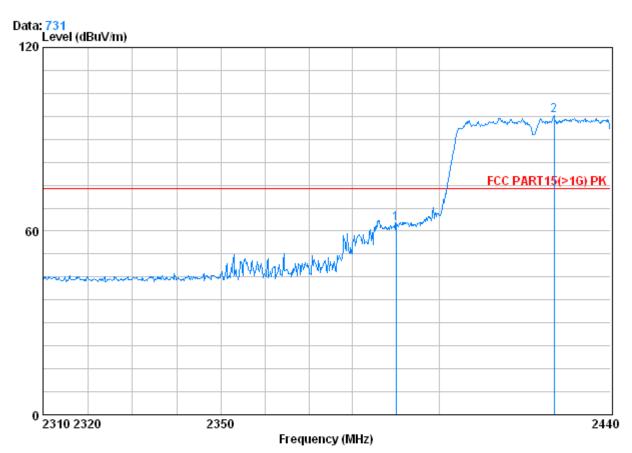
1040	. 2722 Du	Ü			•	Read Level		Limit Line	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.080 2429.340				68.13 102.99			



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2422 Bandedge N40

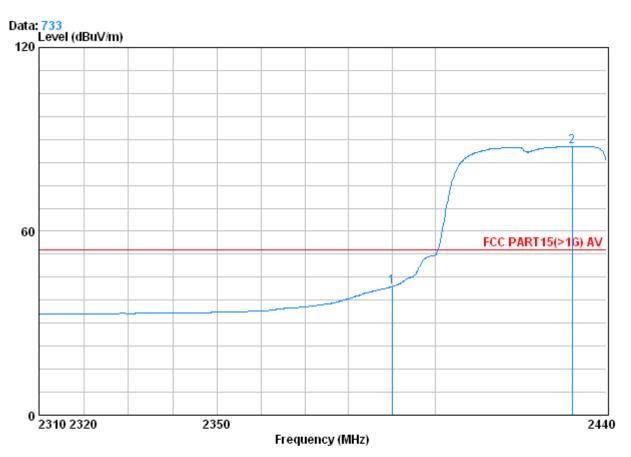
1040				•	Read Level		Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3	2390.080 X 2426.740				66.87 102.11			



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2422 Bandedge N40

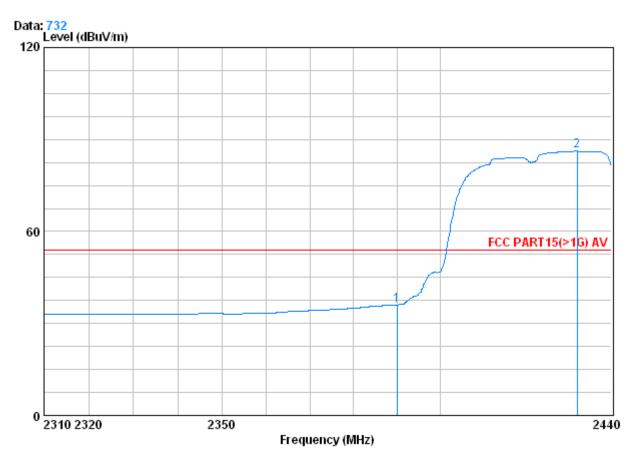
1046	Freq			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 0	2390.080 2431.940			39.85 39.88				



Report No.: SZEM131100620001

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



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

Job No. : 6200RF

Mode : 2422 Bandedge N40

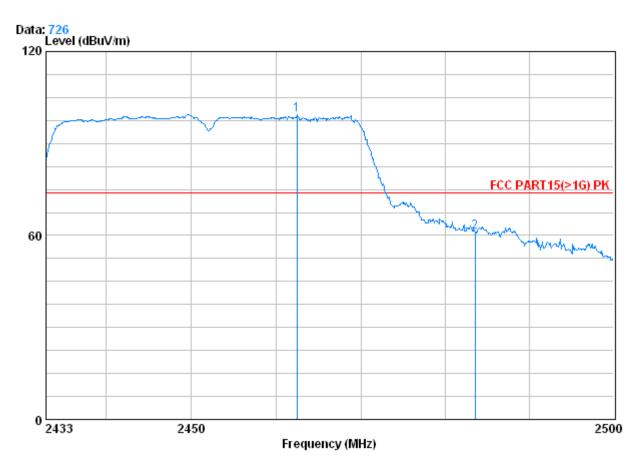
1046	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 2	2390.080 2431.940			39.85 39.88				



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



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

Job No. : 6200RF

Mode : 2452 Bandedge N40

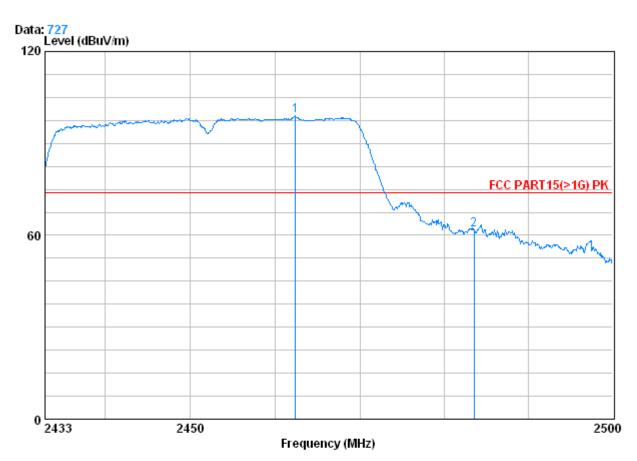
1046	Freq			-	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X								25.49 -12.86



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



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

Job No. : 6200RF

Mode : 2452 Bandedge N40

ou	5	. 2402 B	Freq			•	Read Level			
		-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	X		2462.346	3.02	32.64	39.91	103.22	98.97	74.00	24.97
2			2483.500	3.03	32.67	39.92	66.16	61.94	74.00	-12.06

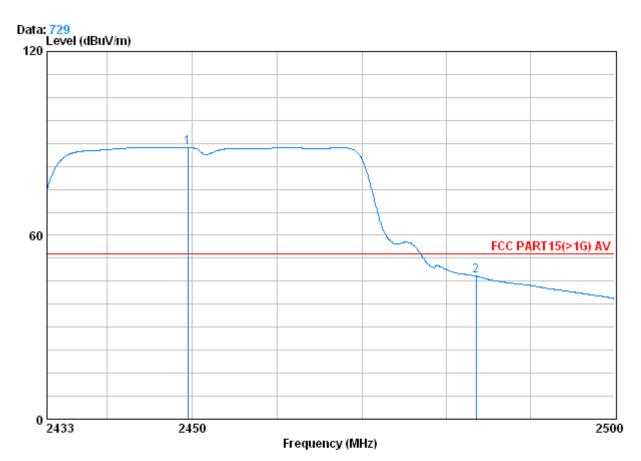




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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Vertical



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

Job No. : 6200RF

Mode : 2452 Bandedge N40

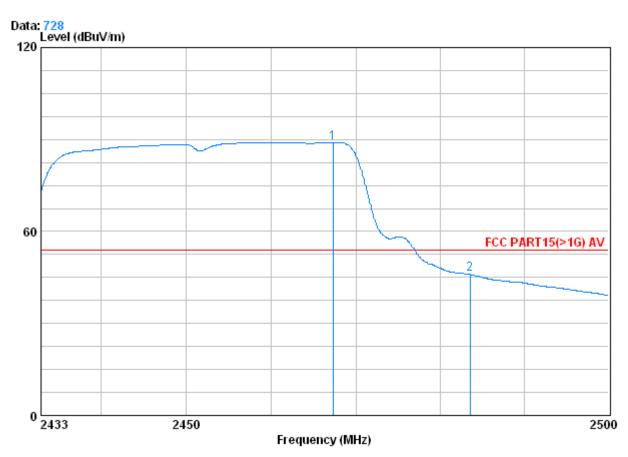
nou	ŧe	. 2402 Bandedge 1440			Preamp			Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0	2449.482	3.01	32.61	39.89	92.93	88.66	54.00	34.66
2		2483.500	3.03	32.67	39.92	50.92	46.70	54.00	-7.30



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



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

Job No. : 6200RF

Mode : 2452 Bandedge N40

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @ 2	2467.237 2483.500			39.91 39.92				

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