

Report No.: SZEM160600498703

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

Shenzhen, Guangdong, China 518057 Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sgs.com Page: 1 of 96

FCC REPORT

Application No: SZEM1606004987CR

Applicant:Embest Technology Co.,LtdManufacturer:Embest Technology Co.,LtdFactory:Embest Technology Co.,Ltd

Product Name: SBC-EC8800
Model No.(EUT): SBC-EC8800

FCC ID: 2AFLY-SBC-EC8800

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

Date of Receipt: 2016-06-30

Date of Test: 2016-07-11 to 2016-07-22

Date of Issue: 2016-08-04

Test Result: PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Version

Revision Record								
Version	Chapter	Date	Modifier	Remark				
00		2016-08-04		Original				

Authorized for issue by:		
Tested By	Hank yan.	2016-07-22
	(Hank Yan) /Project Engineer	Date
Checked By	Eric Fu	2016-08-04
	(Eric Fu) /Reviewer	Date

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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Embest Technology Co.,Ltd
Address of Applicant:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China
Manufacturer:	Embest Technology Co.,Ltd
Address of Manufacturer:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China
Factory:	Embest Technology Co.,Ltd
Address of Factory:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China

5.2 General Description of EUT

Product Name:	SBC-EC8800			
Model No.:	SBC-EC8800			
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
	IEEE 802.11n(HT40): 2422MHz to 2452MHz			
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels			
	IEEE 802.11n HT40: 7 Channels			
Channel Separation:	5MHz			
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)			
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)			
	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,			
	QPSK,BPSK)			
Sample Type:	Mobile Product			
Antenna Type:	Integral			
Antenna Gain:	0dBi			
Power Supply:	DC 5V			
Test Voltage:	DC 5V			

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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Char	nel	Frequency
1	24	412MHz	4	2427MHz	7	244	12MHz	1()	2457MHz
2	24	417MHz	5	2432MHz	8	244	47MHz	11		2462MHz
3	24	422MHz	6	2437MHz	9	245	2452MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40)						
Channe	l	Frequ	ency	Channel	Frequen	су	Chan	nel	ı	requency
3 2422MHz		6	2437MHz		9			2452MHz		
4 2427MHz		7	2442MF	lz						
5 2432MHz		MHz	8	2447MF	lz					

Note:

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

For 802.11b/g/n (HT20):

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

For 802.11n (HT40):

0: 00 <u>1</u> ::::(::::0):					
Channel	Frequency				
The Lowest channel	2422MHz				
The Middle channel	2437MHz				
The Highest channel	2452MHz				

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all
	kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

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5.6 Test Facility

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

• CNAS (No. CNAS L2929)

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

• FCC - Registration No.: 556682

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

Industry Canada (IC)

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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09

	RF connected test								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date			
1.0111	rest Equipment			inventory ito.	(yyyy-mm-dd)	(yyyy-mm-dd)			
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09			
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17			
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25			
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09			



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

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



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6 Test results and Measurement Data

6.1 Antenna Requirement

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

15.203 requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:



The product uses a dedicated antenna connector (RP-SMA). The best case gain of the antenna is 0dBi.



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6.2 Conducted Emissions

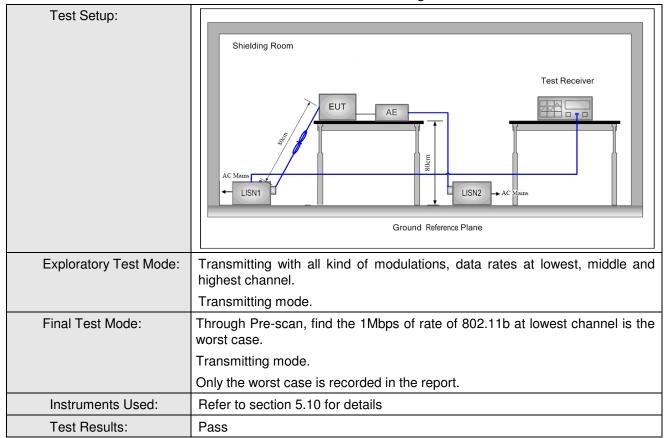
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.		-	
Test Procedure:					

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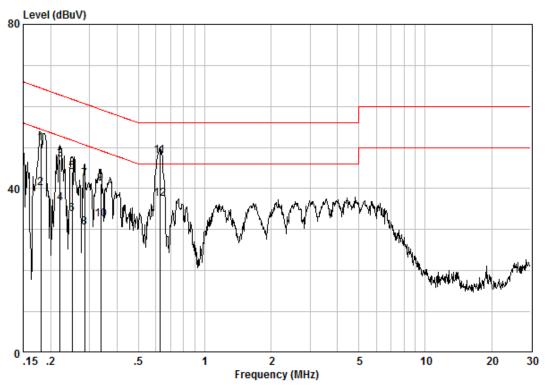
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Measurement Data

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

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

Live Line:



Site : Shielding Room Condition : CE LINE Job No. : 4987CR Test Mode : TX mode

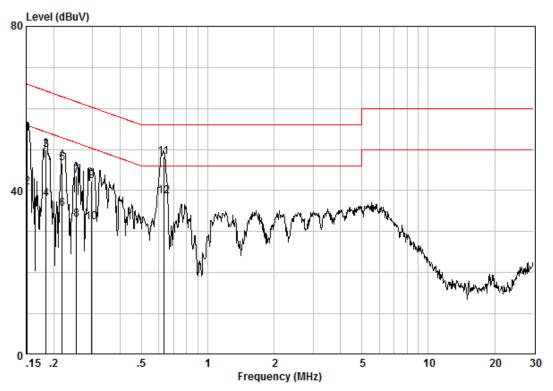
	_	Cable	LISN	Read		Over	
	Freq	LOSS	Factor	revel	rever	Limit	Kemark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.18056	0.02	9.60	41.33	50.95	-13.51	QP
2	0.18056	0.02	9.60	30.47	40.09	-14.37	AVERAGE
3	0.22083	0.02	9.60	37.44	47.06	-15.73	QP
4	0.22083	0.02	9.60	26.81	36.43	-16.35	AVERAGE
5	0.25078	0.02	9.60	34.47	44.09	-17.64	QP
6	0.25078	0.02	9.60	24.13	33.75	-17.98	AVERAGE
7	0.28478	0.02	9.59	32.62	42.24	-18.44	QP
8	0.28478	0.02	9.59	20.84	30.45	-20.22	AVERAGE
9	0.33740	0.02	9.59	31.58	41.19	-18.08	QP
10	0.33740	0.02	9.59	22.83	32.44	-16.82	AVERAGE
11 @	0.62383	0.02	9.61	38.39	48.03	-7.97	QP
12	0.62383	0.02	9.61	27.84	37.48	-8.52	AVERAGE



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Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 4987CR Test Mode : TX mode

	Freg	Cable	LISN Factor			Over	Domanic
	rieq	TOSS	ractor	Tevel	rever	LIMIC	Kemark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15160	0.02	9.62	44.38	54.02	-11.90	QP
2	0.15160	0.02	9.62	31.17	40.80	-15.11	AVERAGE
3	0.18443	0.02	9.61	40.39	50.02	-14.26	QP
4	0.18443	0.02	9.61	28.35	37.98	-16.31	AVERAGE
5	0.21851	0.02	9.62	36.99	46.63	-16.25	QP
6	0.21851	0.02	9.62	25.97	35.61	-17.27	AVERAGE
7	0.25345	0.02	9.61	34.01	43.64	-18.00	QP
8	0.25345	0.02	9.61	23.33	32.96	-18.68	AVERAGE
9	0.29711	0.02	9.62	32.71	42.35	-17.97	QP
10	0.29711	0.02	9.62	22.52	32.16	-18.16	AVERAGE
11 @	0.63048	0.02	9.63	38.58	48.23	-7.77	QP
12 B	0.63048	0.02	9.63	28.88	38.53	-7.47	AVERAGE

Notes:

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



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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10 :2013 Section 11.9.1			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark:			
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)			
Limit:	30dBm			
Test Results:	Pass			

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Pre-scan under all rate at lowest channel 1								
Mode		802	.11b			_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	14.62	14.49	14.39	14.25				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	19.96	19.81	19.73	19.64	19.55	19.49	19.44	19.31
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	20.03	19.98	19.84	19.71	19.63	19.55	19.40	19.25
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	17.50	17.36	17.24	17.12	17.00	16.95	16.86	16.77

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

	802.11b mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	14.62	30.00	Pass			
Middle	15.66	30.00	Pass			
Highest	15.91	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.96	30.00	Pass			
Middle	20.50	30.00	Pass			
Highest	20.79	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	20.03	30.00	Pass			
Middle	20.56	30.00	Pass			
Highest	20.87	30.00	Pass			
	802.11n(HT40)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	17.50	30.00	Pass			
Middle	17.67	30.00	Pass			
Highest	17.85	30.00	Pass			



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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



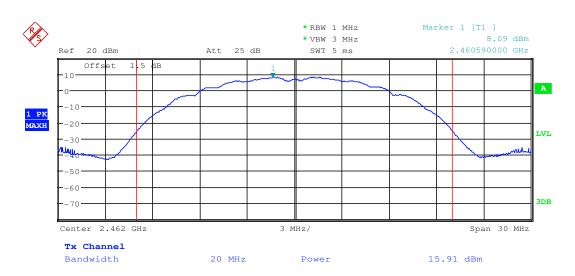
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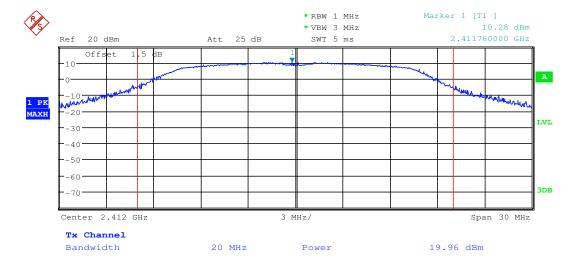
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



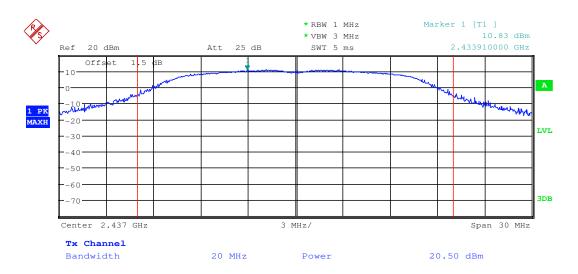
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Test mode: 802.11g Test channel: Middle







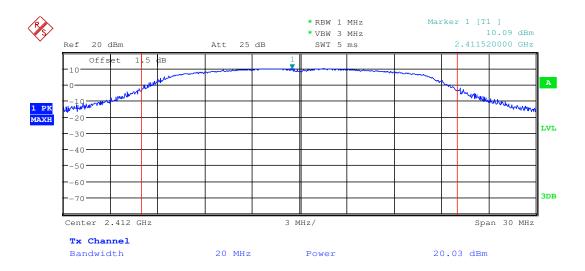
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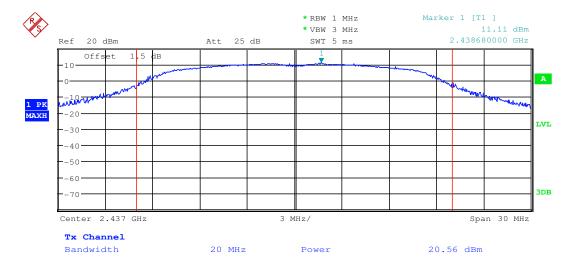
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Test mode: 802.11n(HT20) Test channel: Lowest



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



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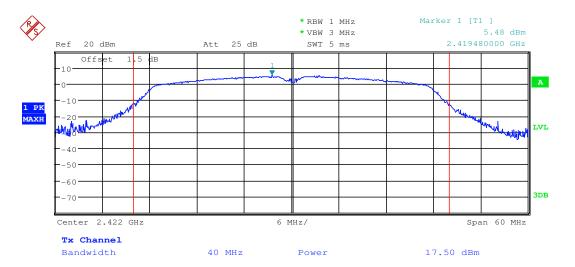
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Test mode: 802.11n(HT20) Test channel: Highest







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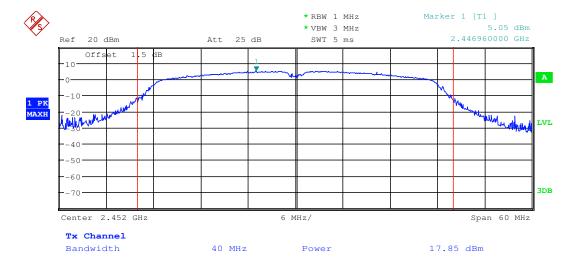
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Test mode: 802.11n(HT40) Test channel: Middle







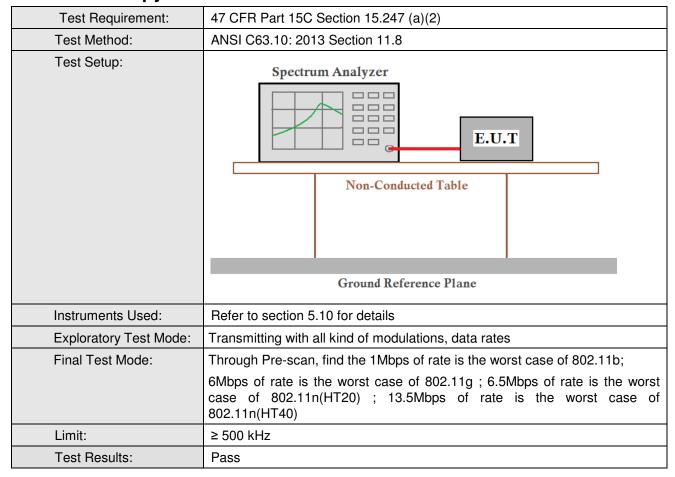
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6.4 6dB Occupy Bandwidth



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Measurement Data

802.11b mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	10.11	≥500	Pass			
Middle	10.11	≥500	Pass			
Highest	10.08	≥500	Pass			
	802.11g mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	15.21	≥500	Pass			
Middle	15.15	≥500	Pass			
Highest	15.15	≥500	Pass			
	802.11n(HT20) mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	15.18	≥500	Pass			
Middle	15.18	≥500	Pass			
Highest	15.15	≥500	Pass			
	802.11n(HT40)mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	35.16	≥500	Pass			
Middle	35.16	≥500	Pass			
Highest	33.96	≥500	Pass			

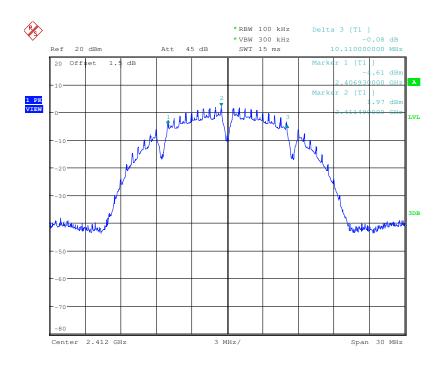


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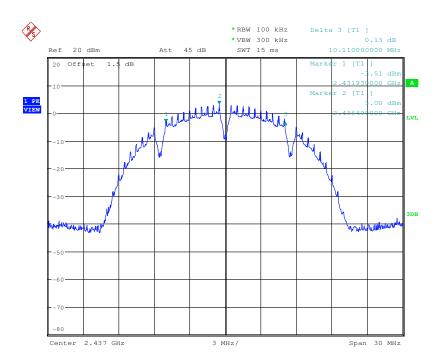
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

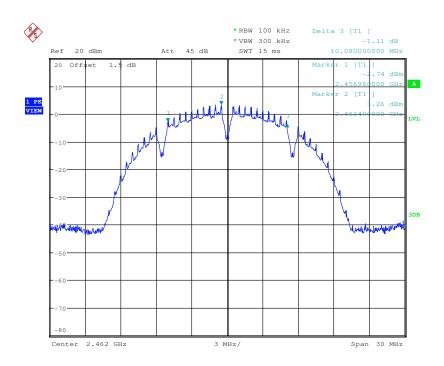




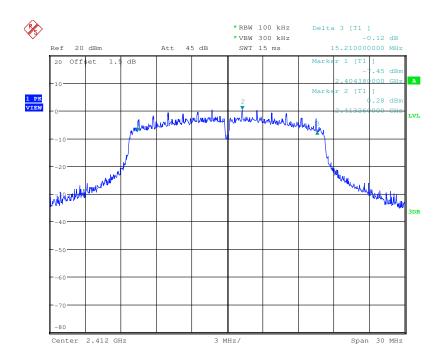
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Test mode: 802.11b Test channel: Highest





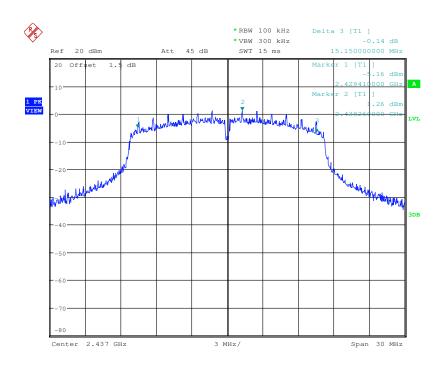




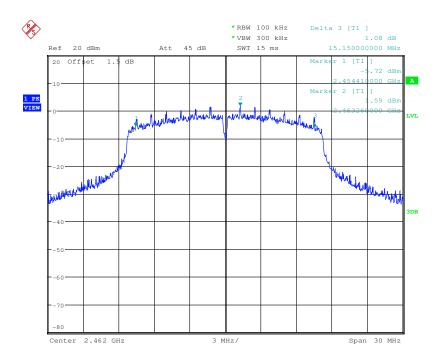
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Test mode: 802.11g Test channel: Middle





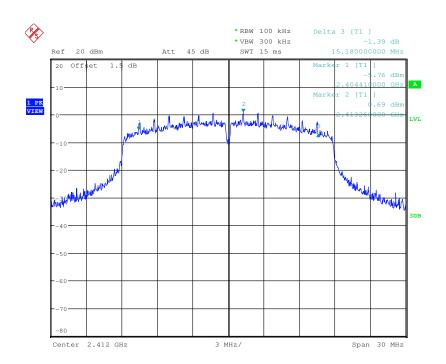




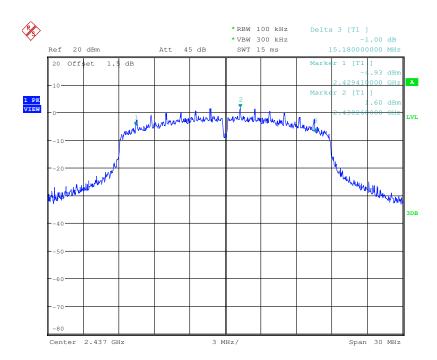
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Test mode: 802.11n(HT20) Test channel: Lowest





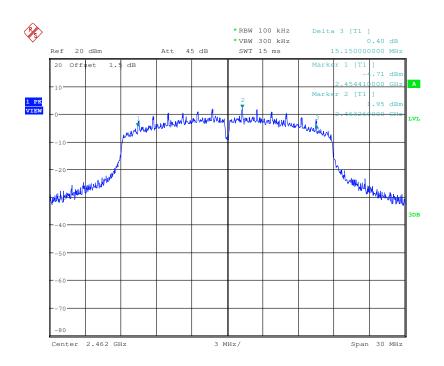




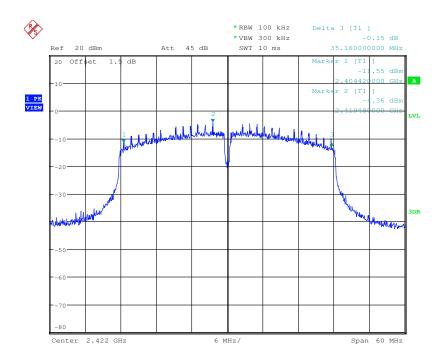
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Test mode: 802.11n(HT20) Test channel: Highest





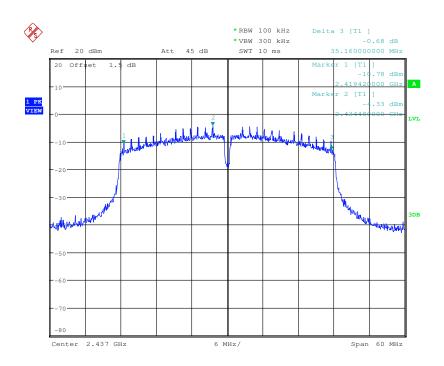




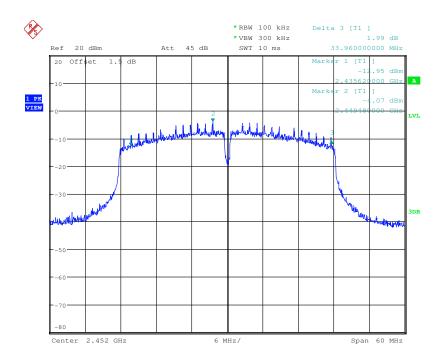
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Test mode: 802.11n(HT40) Test channel: Middle









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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10 :2013 Section 11.10.2		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:		
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;		
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)		
Limit:	≤8.00dBm/3kHz		
Test Results:	Pass		

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Measurement Data

802.11b mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-11.81	≤8.00	Pass		
Middle	-9.37	≤8.00	Pass		
Highest	-11.03	≤8.00	Pass		
	802.11g mode				
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-13.39	≤8.00	Pass		
Middle	-11.57	≤8.00	Pass		
Highest	-12.94	≤8.00	Pass		
	802.11n(HT20) mode				
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-12.20	≤8.00	Pass		
Middle	-12.18	≤8.00	Pass		
Highest	-12.32	≤8.00	Pass		
	802.11n(HT40) mode				
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-18.00	≤8.00	Pass		
Middle	-19.14	≤8.00	Pass		
Highest	-18.04	≤8.00	Pass		

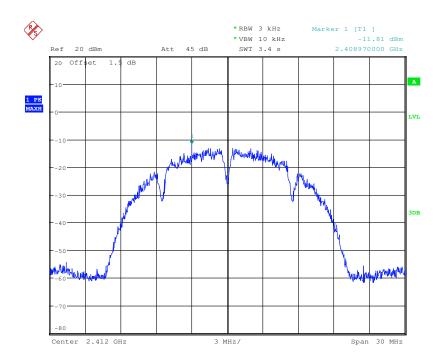


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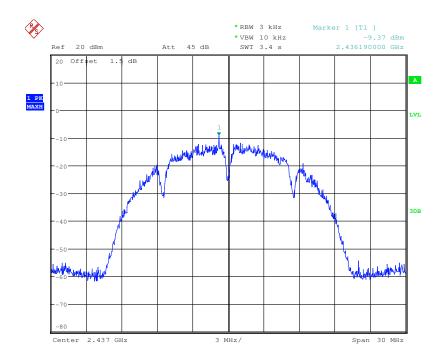
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

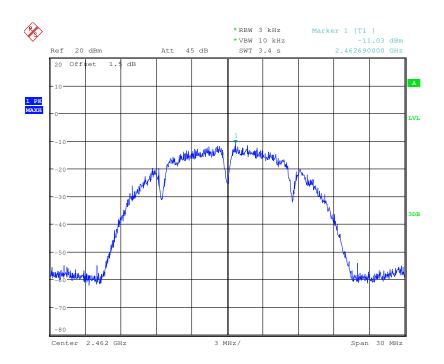


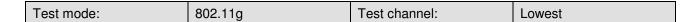


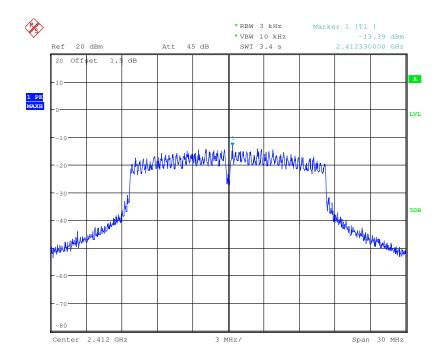
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Test mode: 802.11b Test channel: Highest





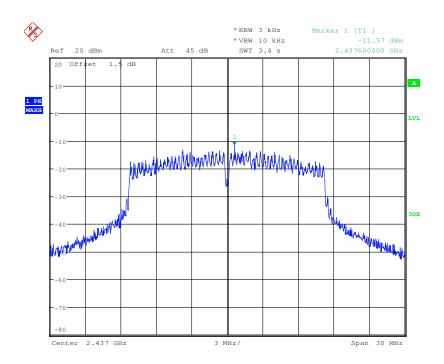




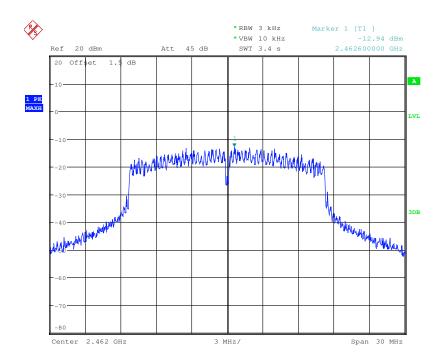
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Test mode: 802.11g Test channel: Middle





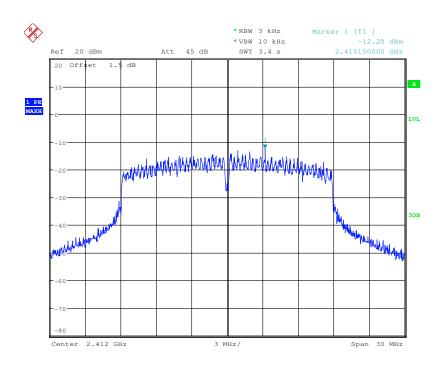




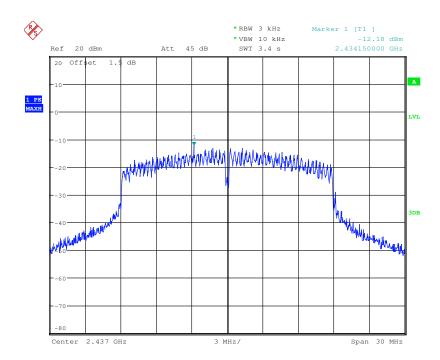
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Test mode: 802.11n(HT20) Test channel: Lowest





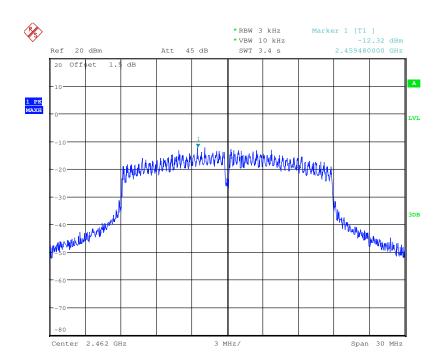




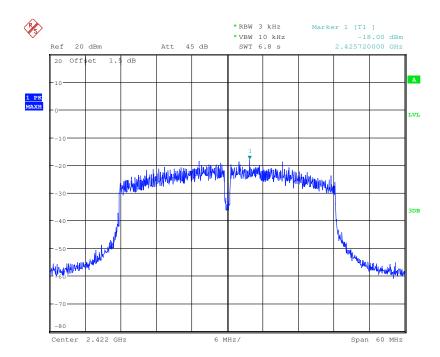
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Test mode: 802.11n(HT20) Test channel: Highest





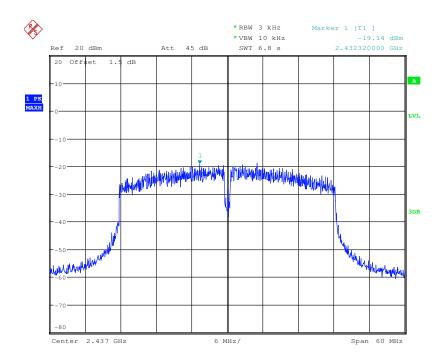




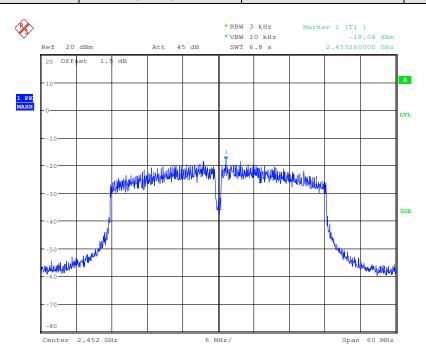
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Test mode: 802.11n(HT40) Test channel: Middle









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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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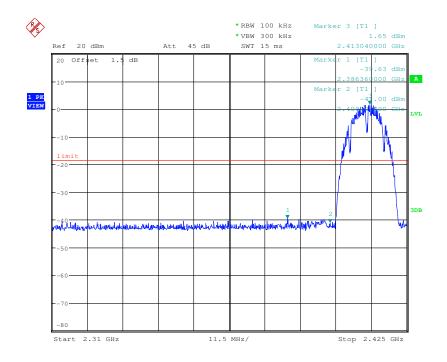


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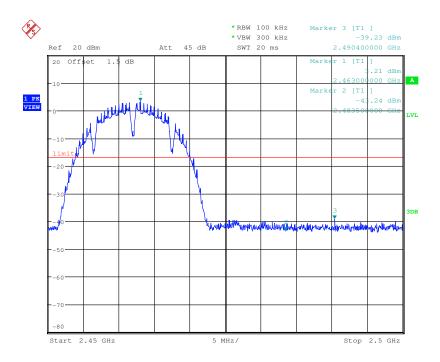
Page: 42 of 96

Test plot as follows:

Test mode: 802.11b Test channel: Lowest





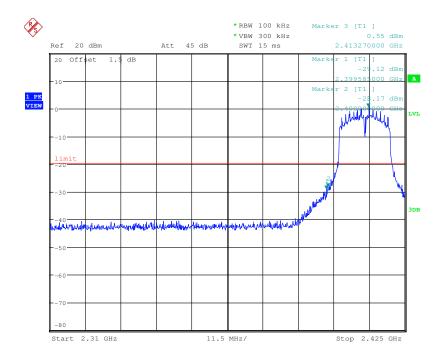




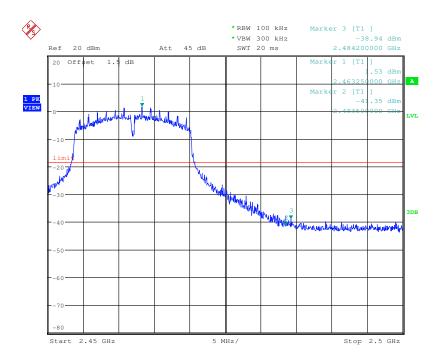
Report No.: SZEM160600498703

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Test mode: 802.11g Test channel: Lowest





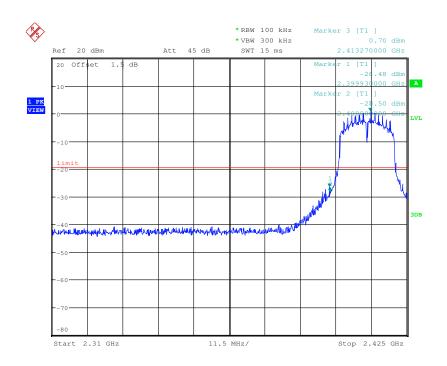




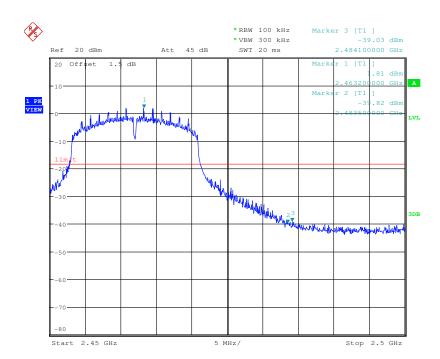
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Test mode: 802.11n(HT20) Test channel: Lowest





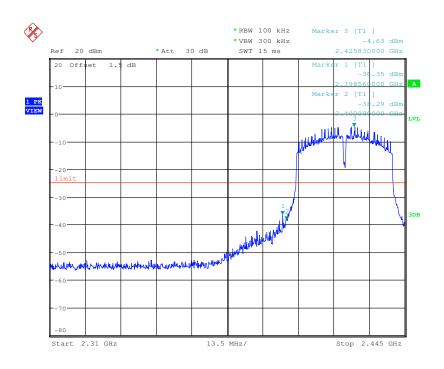




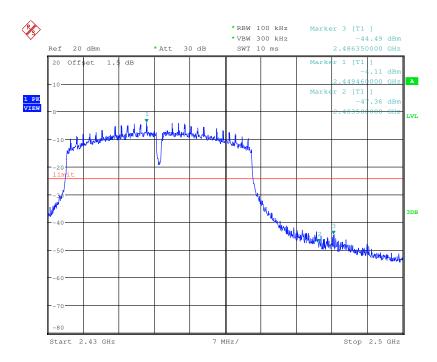
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Test mode: 802.11n(HT40) Test channel: Lowest









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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is
	produced by the intentional radiator shall be at least 20 dB below that in the
	100 kHz bandwidth within the band that contains the highest level of the
	desired power, based on either an RF conducted or a radiated
	measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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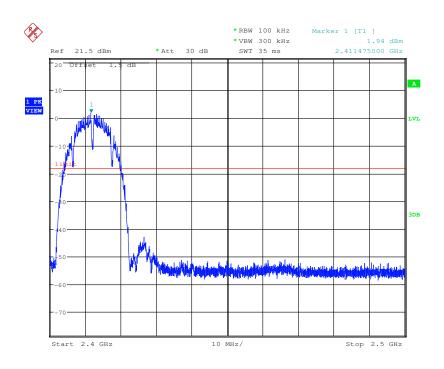


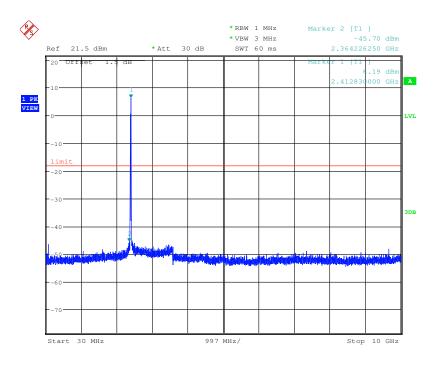
Report No.: SZEM160600498703

Page: 47 of 96

Test plot as follows:

Test mode: 802.11b Test channel: Lowest

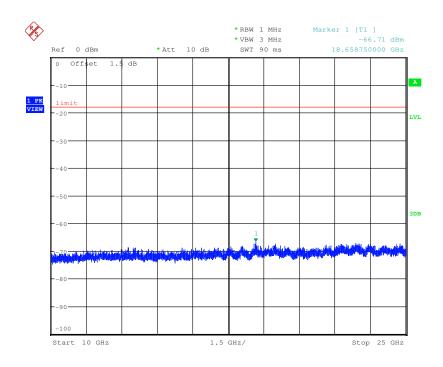




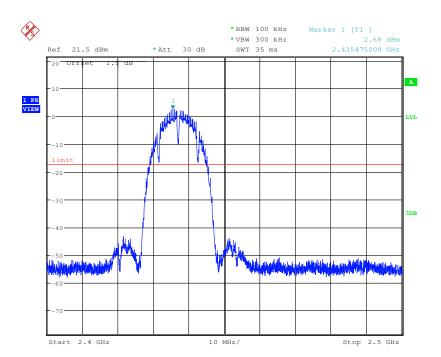


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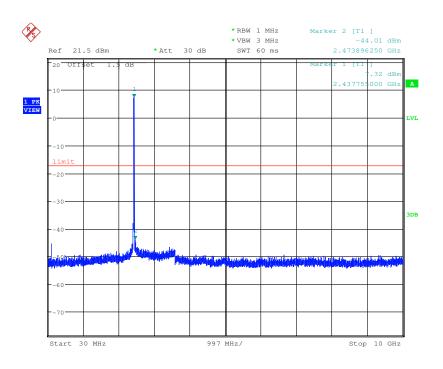


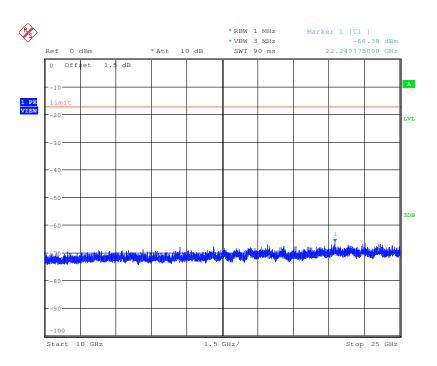
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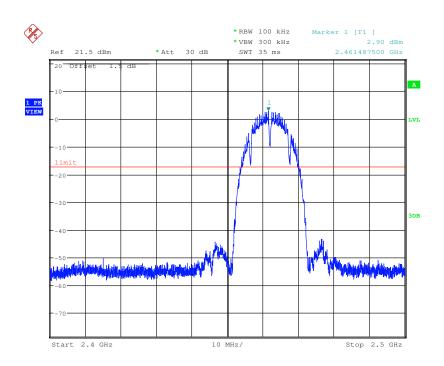
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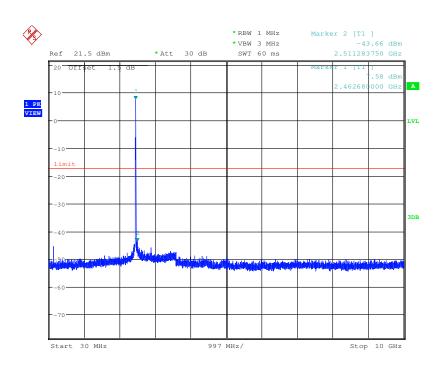


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Test mode: 802.11b Test channel: Highest



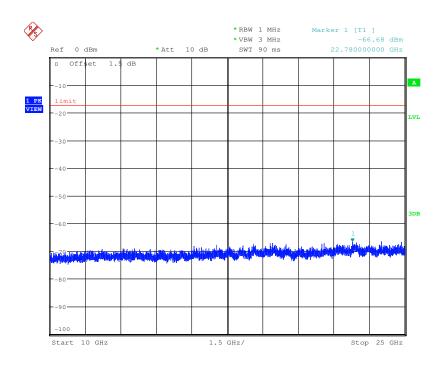


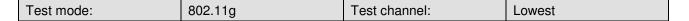
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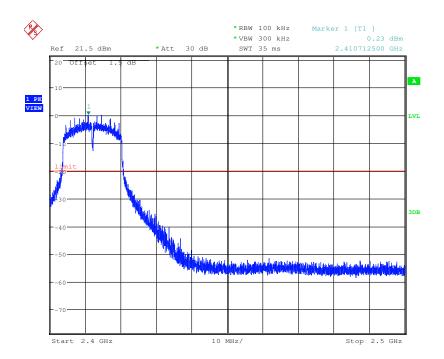


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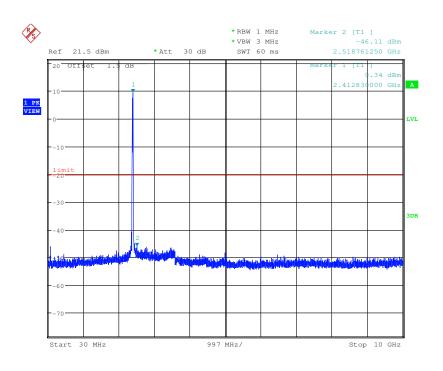


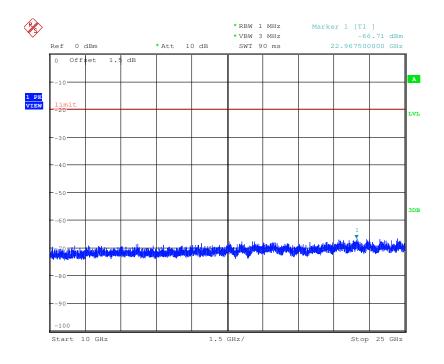
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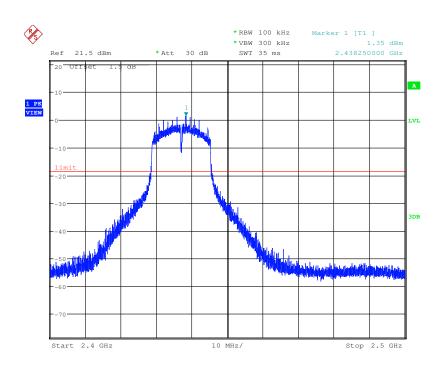
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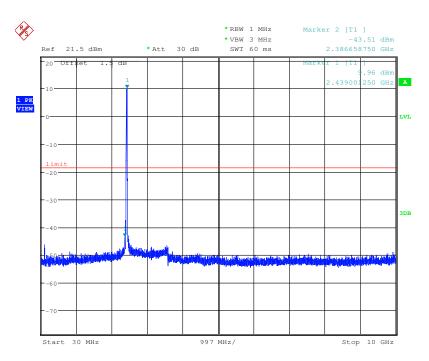


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Test mode: 802.11g Test channel: Middle



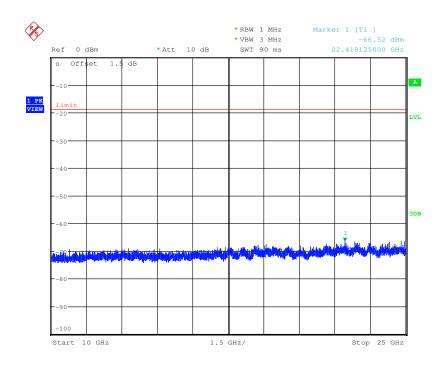


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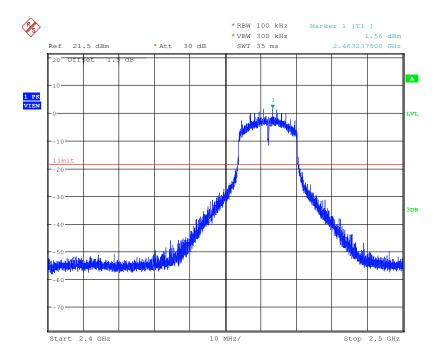


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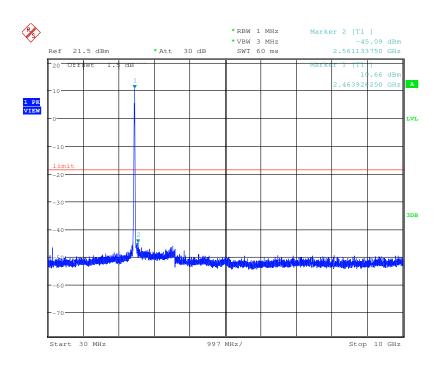


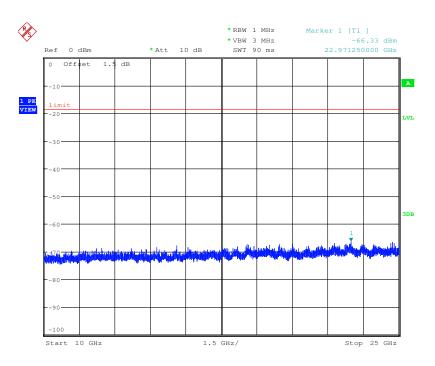
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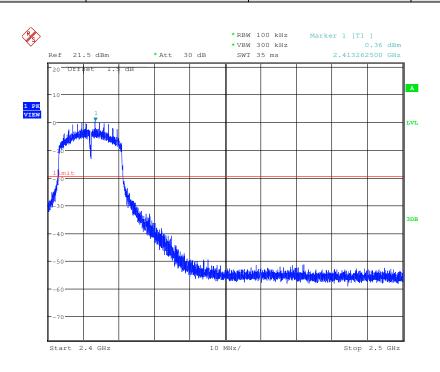
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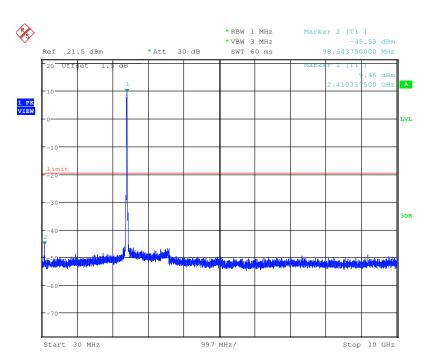


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Test mode: 802.11n(HT20) Test channel: Lowest



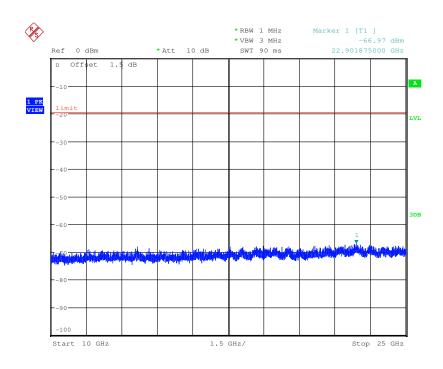


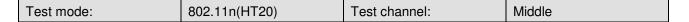
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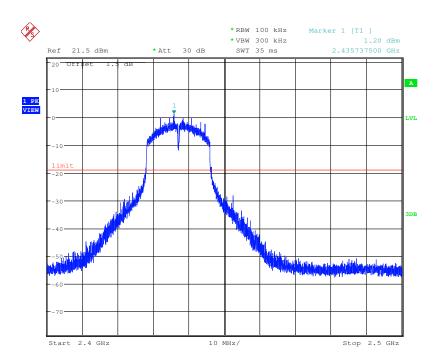


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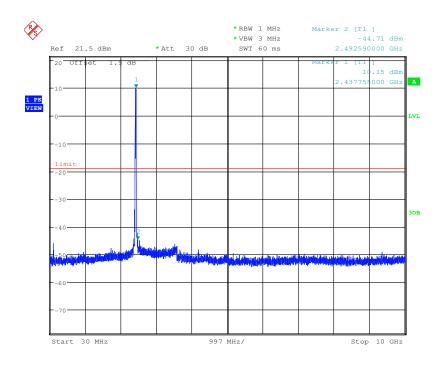


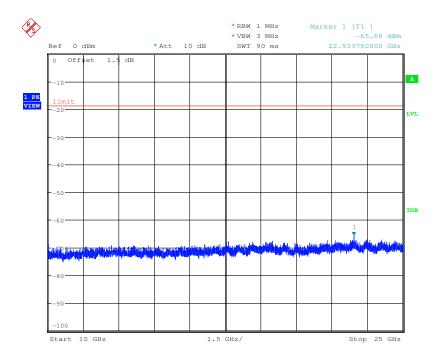
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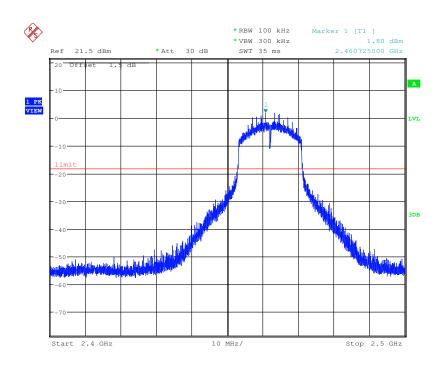
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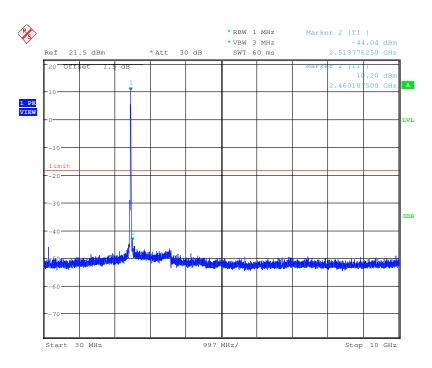


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Test mode: 802.11n(HT20) Test channel: Highest



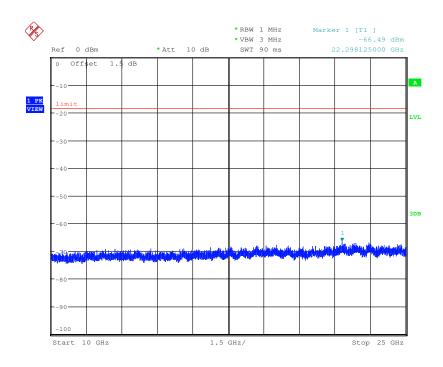


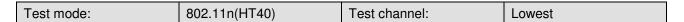
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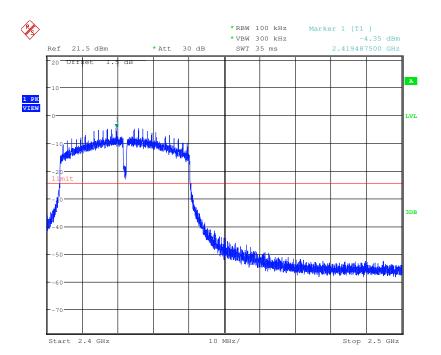


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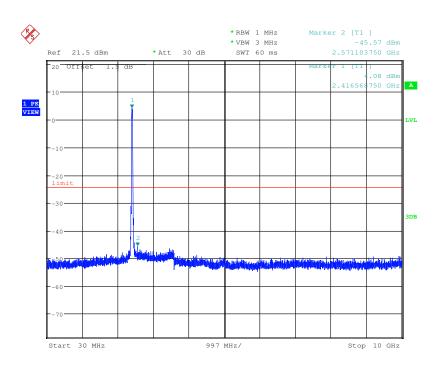


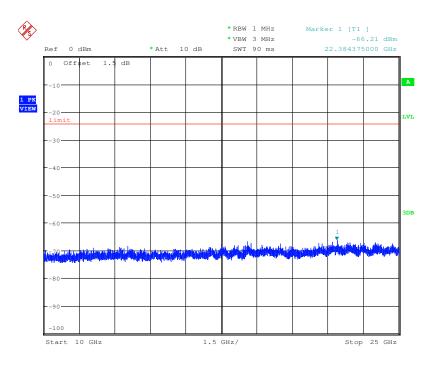
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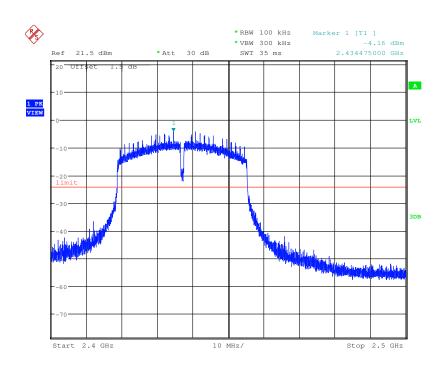
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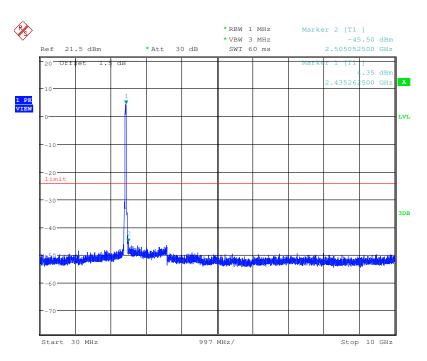


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Test mode: 802.11n(HT40) Test channel: Middle



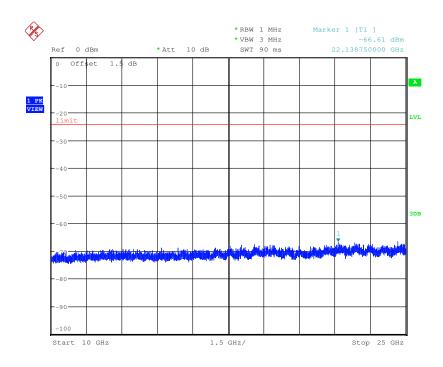


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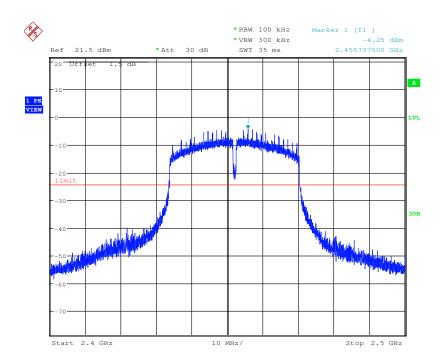


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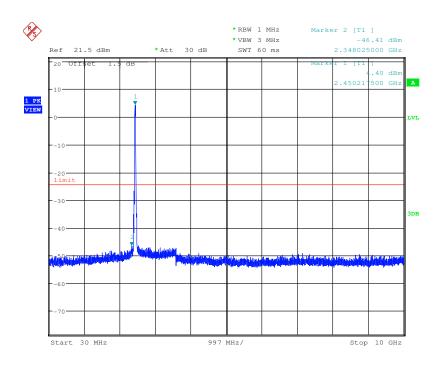


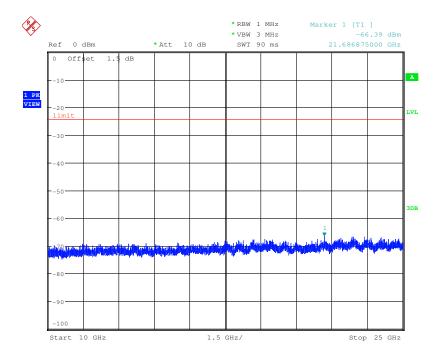




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Remark:

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



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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz 500 54.0 Average 3								
	Note: 15.35(b), Unless of emissions is 20dB applicable to the emission level radio	above the maximuquipment under te	um permitted st. This peak	average emi	ssion limit				

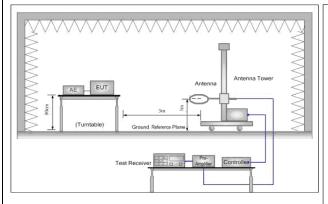
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Test Setup:



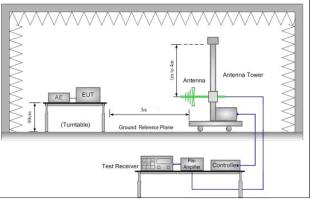


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

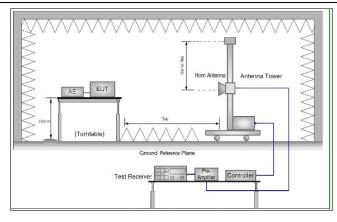


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the



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	limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	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)
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

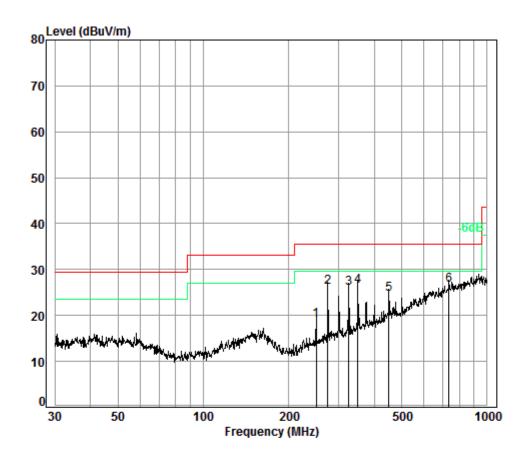


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6.8.1 Radiated emission below 1GHz

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



Condition: 10m HORIZONTAL

Job No. : 4987CR Test mode: TX mode

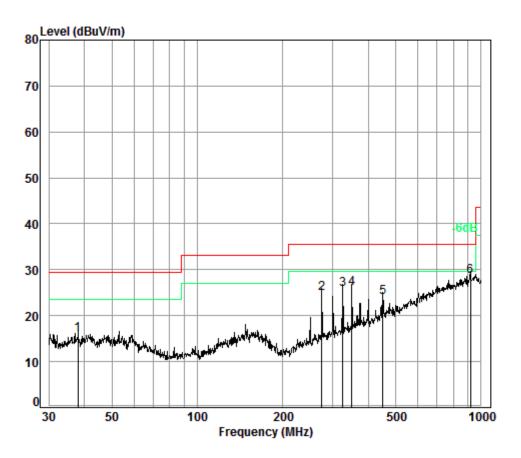
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	250.30	7.85	11.25	32.64	32.61	19.07	35.60	-16.53
2	275.16	7.98	12.01	32.62	38.84	26.21	35.60	-9.39
3	325.60	8.13	13.38	32.60	37.07	25.98	35.60	-9.62
4	350.48	8.25	13.85	32.60	36.92	26.42	35.60	-9.18
5	451.14	8.43	16.19	32.60	32.62	24.64	35.60	-10.96
6 pp	734.49	9.20	20.58	32.60	29.49	26.67	35.60	-8.93



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Test mode: Transmitting Horizontal



Condition: 10m HORIZONTAL

Job No. : 4987CR Test mode: TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	38.08	6.76	13.07	32.98	29.02	15.87	29.50	-13.63
2	275.16	7.98	12.01	32.62	37.47	24.84	35.60	-10.76
3	325.60	8.13	13.38	32.60	36.86	25.77	35.60	-9.83
4	350.48	8.25	13.85	32.60	36.38	25.88	35.60	-9.72
5	451.14	8.43	16.19	32.60	32.05	24.07	35.60	-11.53
6 p	p 916.07	9.50	22.44	32.50	29.14	28.58	35.60	-7.02



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6.8.2 Transmitter emission above 1GHz

Test mode:	802.1	1b	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3615.625	32.54	7.67	38.52	40.99	42.68	74.00	-31.32	Vertical
4824.000	34.19	8.90	39.04	43.20	47.25	74.00	-26.75	Vertical
6283.882	34.93	10.20	38.82	41.51	47.82	74.00	-26.18	Vertical
7236.000	36.40	10.69	38.15	42.13	51.07	74.00	-22.93	Vertical
9648.000	37.53	12.52	36.97	38.02	51.10	74.00	-22.90	Vertical
11791.720	38.39	14.34	38.10	35.79	50.42	74.00	-23.58	Vertical
3368.157	31.98	7.60	38.40	42.32	43.50	74.00	-30.50	Horizontal
4824.000	34.19	8.90	39.04	44.88	48.93	74.00	-25.07	Horizontal
6131.199	34.81	10.39	38.92	43.50	49.78	74.00	-24.22	Horizontal
7236.000	36.40	10.69	38.15	42.15	51.09	74.00	-22.91	Horizontal
9648.000	37.53	12.52	36.97	38.56	51.64	74.00	-22.36	Horizontal
11877.340	38.48	14.43	38.18	36.46	51.19	74.00	-22.81	Horizontal

Test mode:	802.1	1b	Test ch	annel:	Middle	Remark	κ:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3467.050	32.14	7.62	38.45	43.08	44.39	74.00	-29.61	Vertical
4874.000	34.28	8.97	39.05	44.52	48.72	74.00	-25.28	Vertical
5828.433	34.60	10.08	39.02	43.98	49.64	74.00	-24.36	Vertical
7311.000	36.37	10.72	38.07	43.21	52.23	74.00	-21.77	Vertical
9748.000	37.55	12.58	36.92	38.51	51.72	74.00	-22.28	Vertical
11791.720	38.39	14.34	38.10	35.79	50.42	74.00	-23.58	Vertical
3417.246	32.06	7.61	38.43	41.80	43.04	74.00	-30.96	Horizontal
4874.000	34.28	8.97	39.05	44.20	48.40	74.00	-25.60	Horizontal
6016.949	34.71	10.54	38.99	42.45	48.71	74.00	-25.29	Horizontal
7311.000	36.37	10.72	38.07	42.51	51.53	74.00	-22.47	Horizontal
9748.000	37.55	12.58	36.92	38.60	51.81	74.00	-22.19	Horizontal
12015.620	38.61	14.55	38.32	35.72	50.56	74.00	-23.44	Horizontal



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Test mode:	802.1	1b	Test ch	annel:	Highest	Rem	ark:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/n	Over Limit (dB)	Polarization
3522.674	32.27	7.64	38.48	44.45	45.88	74.00	-28.12	Vertical
4924.000	34.37	9.04	39.07	45.12	49.46	74.00	-24.54	Vertical
6060.637	34.75	10.48	38.96	42.38	48.65	74.00	-25.35	Vertical
7386.000	36.34	10.75	38.00	43.21	52.30	74.00	-21.70	Vertical
9848.000	37.57	12.63	36.87	38.56	51.89	74.00	-22.11	Vertical
12085.370	38.65	14.49	38.39	36.54	51.29	74.00	-22.71	Vertical
3599.965	32.50	7.67	38.52	42.74	44.39	74.00	-29.61	Horizontal
4924.000	34.37	9.04	39.07	45.62	49.96	74.00	-24.04	Horizontal
6283.882	34.93	10.20	38.82	42.72	49.03	74.00	-24.97	Horizontal
7386.000	36.34	10.75	38.00	43.21	52.30	74.00	-21.70	Horizontal
9848.000	37.57	12.63	36.87	38.11	51.44	74.00	-22.56	Horizontal
11860.170	38.46	14.41	38.17	36.83	51.53	74.00	-22.47	Horizontal

Test mode:	802.1	1g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3387.708	32.01	7.60	38.41	41.39	42.59	74.00	-31.41	Vertical
4824.000	34.19	8.90	39.04	43.57	47.62	74.00	-26.38	Vertical
5820.005	34.59	10.06	39.02	42.32	47.95	74.00	-26.05	Vertical
7236.000	36.40	10.69	38.15	42.56	51.50	74.00	-22.50	Vertical
9648.000	37.53	12.52	36.97	37.51	50.59	74.00	-23.41	Vertical
12243.770	38.75	14.36	38.55	35.33	49.89	74.00	-24.11	Vertical
3262.630	31.79	7.58	38.35	44.46	45.48	74.00	-28.52	Horizontal
4824.000	34.19	8.90	39.04	43.11	47.16	74.00	-26.84	Horizontal
5973.576	34.68	10.49	39.00	42.82	48.99	74.00	-25.01	Horizontal
7236.000	36.40	10.69	38.15	41.10	50.04	74.00	-23.96	Horizontal
9648.000	37.53	12.52	36.97	38.05	51.13	74.00	-22.87	Horizontal
12085.370	38.65	14.49	38.39	36.05	50.80	74.00	-23.20	Horizontal



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Test mode:	802.1	1g	Test ch	annel:	Middle	Remark	α:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3765.116	32.97	7.73	38.59	42.46	44.57	74.00	-29.43	Vertical
4874.000	34.28	8.97	39.05	43.49	47.69	74.00	-26.31	Vertical
6008.249	34.71	10.55	38.99	42.12	48.39	74.00	-25.61	Vertical
7311.000	36.37	10.72	38.07	41.21	50.23	74.00	-23.77	Vertical
9748.000	37.55	12.58	36.92	37.58	50.79	74.00	-23.21	Vertical
11455.380	38.07	13.97	37.77	36.24	50.51	74.00	-23.49	Vertical
3477.098	32.16	7.62	38.46	41.68	43.00	74.00	-31.00	Horizontal
4874.000	34.28	8.97	39.05	44.50	48.70	74.00	-25.30	Horizontal
6202.582	34.87	10.30	38.87	41.69	47.99	74.00	-26.01	Horizontal
7311.000	36.37	10.72	38.07	42.88	51.90	74.00	-22.10	Horizontal
9748.000	37.55	12.58	36.92	37.43	50.64	74.00	-23.36	Horizontal
12243.770	38.75	14.36	38.55	35.29	49.85	74.00	-24.15	Horizontal

Test mode: 802.11g		Test channel:		Highest	Remark	:	Peak	
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3392.613	32.02	7.61	38.41	41.26	42.48	74.00	-31.52	Vertical
4924.000	34.37	9.04	39.07	44.69	49.03	74.00	-24.97	Vertical
5964.939	34.68	10.46	39.00	41.93	48.07	74.00	-25.93	Vertical
7386.000	36.34	10.75	38.00	43.09	52.18	74.00	-21.82	Vertical
9848.000	37.57	12.63	36.87	37.42	50.75	74.00	-23.25	Vertical
12208.390	38.73	14.39	38.52	34.47	49.07	74.00	-24.93	Vertical
3776.027	33.00	7.73	38.60	42.08	44.21	74.00	-29.79	Horizontal
4924.000	34.37	9.04	39.07	44.10	48.44	74.00	-25.56	Horizontal
6008.249	34.71	10.55	38.99	42.37	48.64	74.00	-25.36	Horizontal
7386.000	36.34	10.75	38.00	42.80	51.89	74.00	-22.11	Horizontal
9848.000	37.57	12.63	36.87	38.01	51.34	74.00	-22.66	Horizontal
12085.370	38.65	14.49	38.39	37.16	51.91	74.00	-22.09	Horizontal



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Test mode:	Test mode: 802.11n(HT20) T		Test ch	annel:	Lowest	Remar	k:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3776.027	33.00	7.73	38.60	42.97	45.10	74.00	-28.90	Vertical
4824.000	34.19	8.90	39.04	46.11	50.16	74.00	-23.84	Vertical
5956.314	34.67	10.44	39.00	43.04	49.15	74.00	-24.85	Vertical
7236.000	36.40	10.69	38.15	42.51	51.45	74.00	-22.55	Vertical
9648.000	37.53	12.52	36.97	36.91	49.99	74.00	-24.01	Vertical
12530.530	38.89	14.24	38.84	36.65	50.94	74.00	-23.06	Vertical
3770.567	32.98	7.73	38.60	42.75	44.86	74.00	-29.14	Horizontal
4824.000	34.19	8.90	39.04	44.74	48.79	74.00	-25.21	Horizontal
6087.002	34.77	10.45	38.94	43.34	49.62	74.00	-24.38	Horizontal
7236.000	36.40	10.69	38.15	42.11	51.05	74.00	-22.95	Horizontal
9648.000	37.53	12.52	36.97	37.66	50.74	74.00	-23.26	Horizontal
12033.020	38.62	14.53	38.33	36.13	50.95	74.00	-23.05	Horizontal

Test mode:	est mode: 802.11n(HT20) Test channel:		annel:	Middle	Remark	c:	Peak	
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3339.043	31.93	7.59	38.39	40.32	41.45	74.00	-32.55	Vertical
4874.000	34.28	8.97	39.05	44.01	48.21	74.00	-25.79	Vertical
5982.226	34.69	10.51	39.00	40.79	46.99	74.00	-27.01	Vertical
7311.000	36.37	10.72	38.07	42.08	51.10	74.00	-22.90	Vertical
9748.000	37.55	12.58	36.92	37.91	51.12	74.00	-22.88	Vertical
12033.020	38.62	14.53	38.33	36.38	51.20	74.00	-22.80	Vertical
3447.042	32.11	7.62	38.44	42.99	44.28	74.00	-29.72	Horizontal
4874.000	34.28	8.97	39.05	44.74	48.94	74.00	-25.06	Horizontal
6034.386	34.73	10.52	38.98	43.56	49.83	74.00	-24.17	Horizontal
7311.000	36.37	10.72	38.07	41.56	50.58	74.00	-23.42	Horizontal
9748.000	37.55	12.58	36.92	38.58	51.79	74.00	-22.21	Horizontal
11672.890	38.28	14.21	37.98	35.71	50.22	74.00	-23.78	Horizontal



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Test mode:	Test mode: 802.11n(HT20) Test channel		annel:	Highest	F	Remark		Peak	
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		imit μV/m)	Over Limit (dB)	Polarization
3497.281	32.20	7.63	38.47	42.96	44.32	74	4.00	-29.68	Vertical
4924.000	34.37	9.04	39.07	44.09	48.43	74	4.00	-25.57	Vertical
6113.481	34.79	10.41	38.93	42.21	48.48	74	4.00	-25.52	Vertical
7386.000	36.34	10.75	38.00	43.20	52.29	74	4.00	-21.71	Vertical
9848.000	37.57	12.63	36.87	38.51	51.84	74	4.00	-22.16	Vertical
11808.790	38.41	14.36	38.12	35.51	50.16	74	4.00	-23.84	Vertical
3477.098	32.16	7.62	38.46	42.72	44.04	74	4.00	-29.96	Horizontal
4924.000	34.37	9.04	39.07	44.73	49.07	74	4.00	-24.93	Horizontal
6202.582	34.87	10.30	38.87	42.56	48.86	74	4.00	-25.14	Horizontal
7386.000	36.34	10.75	38.00	42.52	51.61	74	4.00	-22.39	Horizontal
9848.000	37.57	12.63	36.87	38.65	51.98	74	4.00	-22.02	Horizontal
11588.750	38.19	14.12	37.90	36.96	51.37	74	4.00	-22.63	Horizontal

Test mode:	Test mode: 802.11n(HT40) Test channel:		annel:	Lowest	Remark	C:	Peak	
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3462.037	32.14	7.62	38.45	43.33	44.64	74.00	-29.36	Vertical
4844.000	34.23	8.92	39.04	44.61	48.72	74.00	-25.28	Vertical
5947.702	34.67	10.42	39.00	42.08	48.17	74.00	-25.83	Vertical
7266.000	36.39	10.70	38.12	41.61	50.58	74.00	-23.42	Vertical
9688.000	37.54	12.54	36.95	37.52	50.65	74.00	-23.35	Vertical
12137.940	38.68	14.45	38.44	37.29	51.98	74.00	-22.02	Vertical
3737.975	32.89	7.72	38.58	43.09	45.12	74.00	-28.88	Horizontal
4844.000	34.23	8.92	39.04	44.13	48.24	74.00	-25.76	Horizontal
5879.252	34.63	10.22	39.01	41.46	47.30	74.00	-26.70	Horizontal
7266.000	36.39	10.70	38.12	42.11	51.08	74.00	-22.92	Horizontal
9688.000	37.54	12.54	36.95	37.54	50.67	74.00	-23.33	Horizontal
12458.220	38.88	14.18	38.77	35.77	50.06	74.00	-23.94	Horizontal



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Test mode:	Test mode: 802.11n(HT40) T		Test ch	annel:	Middle	Remar	C :	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization
3537.998	32.31	7.64	38.49	41.76	43.22	74.00	-30.78	Vertical
4874.000	34.28	8.97	39.05	45.10	49.30	74.00	-24.70	Vertical
7311.000	36.37	10.72	38.07	41.11	50.13	74.00	-23.87	Vertical
8841.537	36.41	11.81	37.32	40.45	51.35	74.00	-22.65	Vertical
9748.000	37.55	12.58	36.92	37.46	50.67	74.00	-23.33	Vertical
12512.420	38.90	14.19	38.82	37.64	51.91	74.00	-22.09	Vertical
3492.224	32.19	7.63	38.46	42.47	43.83	74.00	-30.17	Horizontal
4874.000	34.28	8.97	39.05	44.26	48.46	74.00	-25.54	Horizontal
6025.661	34.72	10.53	38.98	42.16	48.43	74.00	-25.57	Horizontal
7311.000	36.37	10.72	38.07	42.65	51.67	74.00	-22.33	Horizontal
9748.000	37.55	12.58	36.92	38.50	51.71	74.00	-22.29	Horizontal
11929.010	38.53	14.48	38.23	36.50	51.28	74.00	-22.72	Horizontal

Test mode:	802.1	1n(HT40)	Test ch	annel:	Highest		Remark	:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)		Limit ΒμV/m)	Over Limit (dB)	Polarization
3467.050	32.14	7.62	38.45	41.81	43.12	-	74.00	-30.88	Vertical
4904.000	34.33	9.01	39.07	44.02	48.29	-	74.00	-25.71	Vertical
6184.658	34.85	10.32	38.88	41.04	47.33	-	74.00	-26.67	Vertical
7356.000	36.36	10.74	38.03	41.76	50.83	-	74.00	-23.17	Vertical
9808.000	37.56	12.61	36.89	38.51	51.79	-	74.00	-22.21	Vertical
11877.340	38.48	14.43	38.18	36.98	51.71	-	74.00	-22.29	Vertical
3492.224	32.19	7.63	38.46	40.95	42.31	-	74.00	-31.69	Horizontal
4904.000	34.33	9.01	39.07	44.21	48.48	-	74.00	-25.52	Horizontal
6184.658	34.85	10.32	38.88	42.61	48.90	-	74.00	-25.10	Horizontal
7356.000	36.36	10.74	38.03	42.17	51.24	-	74.00	-22.76	Horizontal
9808.000	37.56	12.61	36.89	37.59	50.87	-	74.00	-23.13	Horizontal
12102.870	38.66	14.47	38.41	36.19	50.91	-	74.00	-23.09	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.

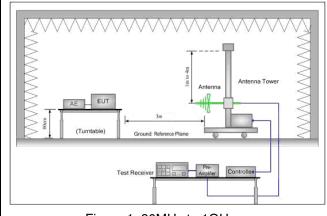


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	5.209 and 15.205								
Test Method:	ANSI C63.10: 2013 Section	NSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit:	Frequency	Frequency Limit (dBuV/m @3m) Remark								
	30MHz-88MHz	30MHz-88MHz 40.0 Quasi-peak Value								
	88MHz-216MHz	88MHz-216MHz 43.5 Quasi-peak Value								
	216MHz-960MHz	46.0	Quasi-peak Value							
	960MHz-1GHz	54.0	Quasi-peak Value							
	Above 1011=	54.0 Average Value								
	Above 1GHz	74.0 Peak Value								
Test Setup:										



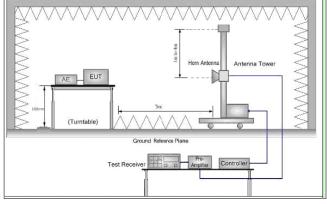


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report.		
meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.	Test Procedure:	meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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 802.11b; 6Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report.		meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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 802.11n (HT20); 13.5Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report.		antenna, which was mounted on the top of a variable-height antenna
and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report.		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report. Refer to section 5.10 for details		and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to
frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report.		
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		h. Test the EUT in the lowest channel , the Highest channel
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. 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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		for Transmitting mode, And found the X axis positioning which it is
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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		1.5
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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		Transmitting mode
case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Final Test Mode:	·
Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		
Instruments Used: Refer to section 5.10 for details		
		Only the worst case is recorded in the report.
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass

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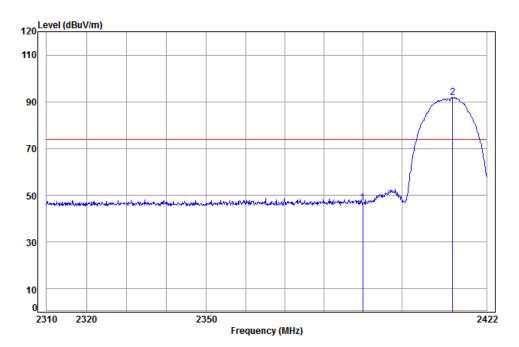


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Test plot as follows:

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



Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2412 Band edge

: B

Ant Preamp Cable Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 2390.000 5.34 29.08 38.14 50.60 46.88 74.00 -27.12 5.36 29.15 38.15 95.54 91.90 74.00 17.90 2 pp 2413.186

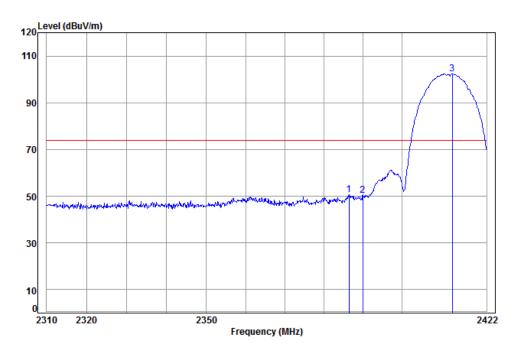
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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 4987CR

Mode: : 2412 Band edge

: B

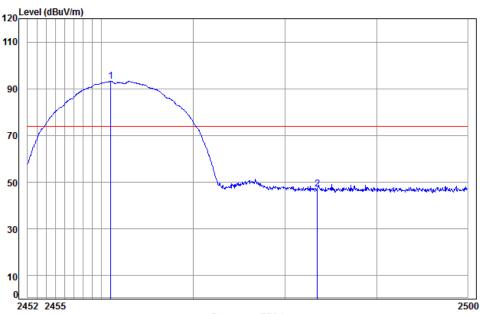
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		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2386.372	5.33	29.07	38.14	54.37	50.63	74.00	-23.37
2		2390.000	5.34	29.08	38.14	54.19	50.47	74.00	-23.53
3	pp	2413.072	5.35	29.15	38.15	106.14	102.49	74.00	28.49



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



Frequency (MHz)

Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2462 Band edge

: B

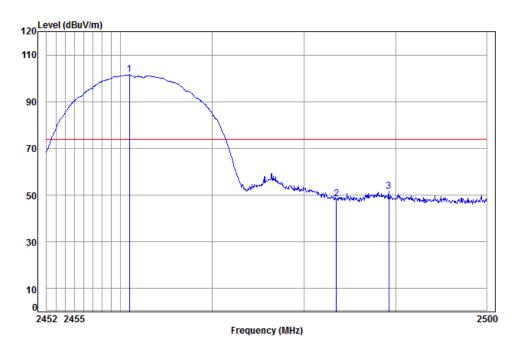
	Cable	Ant	Preamp	Read		Limit	0ver
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2461.001	5 30	20 20	32 15	96 61	93 1/	7/ 00	10 1/
1 pp 2401.001	3.33	27.27	50.15	50.01	JJ.14	74.00	17.14
2 2483.500	5.41	29.35	38.15	50.48	47.09	74.00	-26.91



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



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2462 Band edge

: B

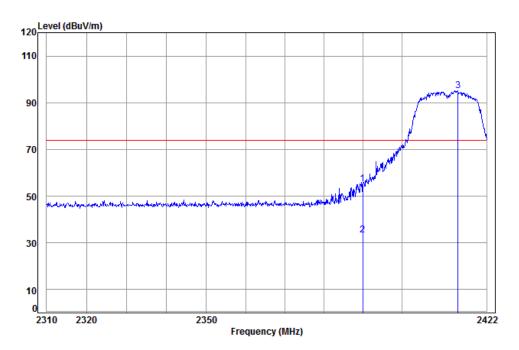
		Freq						Limit Line	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2460.953	5.39	29.29	38.15	105.00	101.53	74.00	27.53
2		2483.500	5.41	29.35	38.15	51.89	48.50	74.00	-25.50
3		2489.263	5.41	29.37	38.15	55.12	51.75	74.00	-22.25



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



Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2412 Band edge

: G

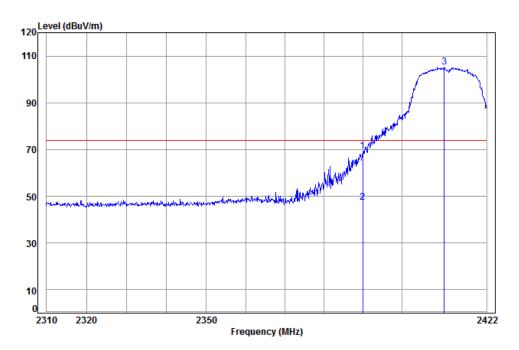
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.000	5.34	29.08	38.14	59.13	55.41	74.00	-18.59
2	av	2390.000	5.34	29.08	38.14	36.99	33.27	54.00	-20.73
3	pp	2414.558	5.36	29.15	38.15	98.75	95.11	74.00	21.11



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



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2412 Band edge

: G

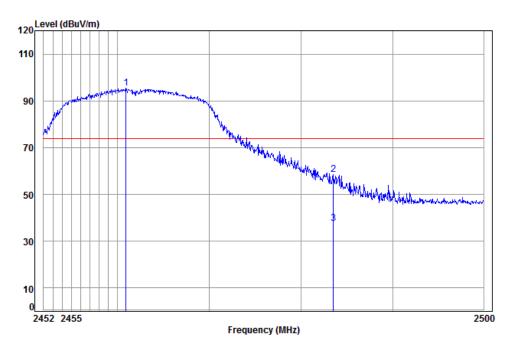
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2390.000	5.34	29.08	38.14	73.11	69.39	74.00	-4.61
2	av	2390.000	5.34	29.08	38.14	50.99	47.27	54.00	-6.73
3	pp	2411.016	5.35	29.14	38.15	109.01	105.35	74.00	31.35



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



Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2462 Band edge

: G

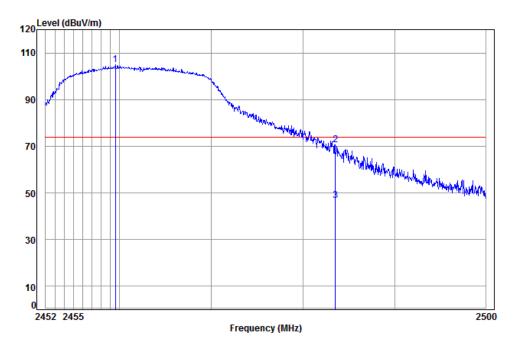
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2460.906	5.39	29.29	38.15	98.94	95.47	74.00	21.47
2	2483.500	5.41	29.35	38.15	62.01	58.62	74.00	-15.38
3 av	2483.500	5.41	29.35	38.15	41.10	37.71	54.00	-16.29



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



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2462 Band edge

: G

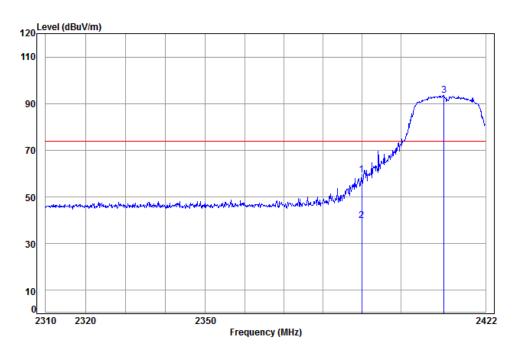
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2459.570	5.39	29.28	38.15	108.32	104.84	74.00	30.84
2		2483.500	5.41	29.35	38.15	74.06	70.67	74.00	-3.33
3	av	2483.500	5.41	29.35	38.15	50.20	46.81	54.00	-7.19



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



Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2412 Band edge

: N20

Ant Preamp 0ver Cable Read Limit Loss Factor Factor Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m 2390.000 5.34 29.08 38.14 63.33 59.61 74.00 -14.39 2 av 2390.000 5.34 29.08 38.14 43.55 39.83 54.00 -14.17 3 pp 2411.245 5.35 29.14 38.15 97.15 93.49 74.00 19.49

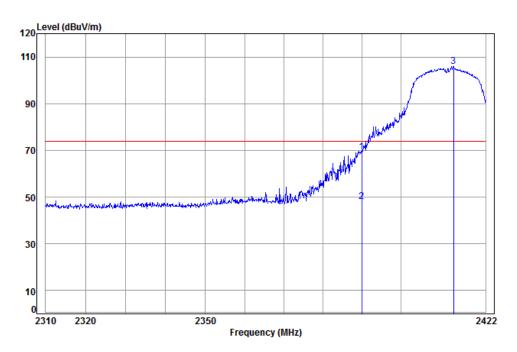
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Worse case mode: 802.11n(HT20) Test channel: Remark: Peak Lowest Horizontal



Condition: 3m HORIZONTAL

Job No: : 4987CR

: 2412 Band edge Mode:

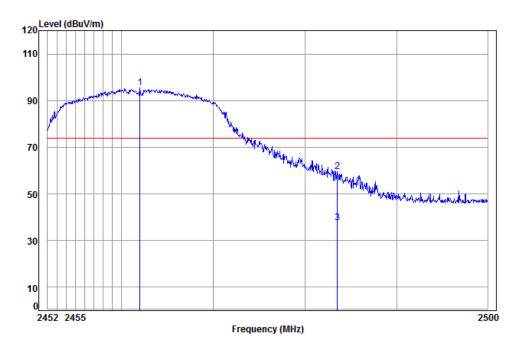
ouc	•	: N20	2 Dania	cugc					
		25		Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	_								
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
		2200 000	F 34	20.00	20.44	70.05	60.00	74.00	4 77
1		2390.000	5.34	29.08	38.14	/2.95	69.23	74.00	-4.//
2	av	2390.000	5.34	29.08	38.14	51.79	48.07	54.00	-5.93
3	pp	2413.643	5.36	29.15	38.15	109.52	105.88	74.00	31.88



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



Condition: 3m VERTICAL Job No: : 4987CR

: 2462 Band edge Mode:

-		: N20		cugc					
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	_								
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
4		2462 002	F 30	20. 20	20.45	00.03	05 46	74.00	24 46
		2462.003							
2		2483.500	5.41	29.35	38.15	62.76	59.37	74.00	-14.63
3	av	2483.500	5.41	29.35	38.15	41.11	37.72	54.00	-16.28

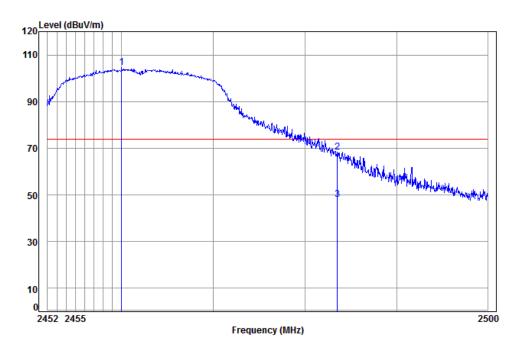
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2462 Band edge

: N20

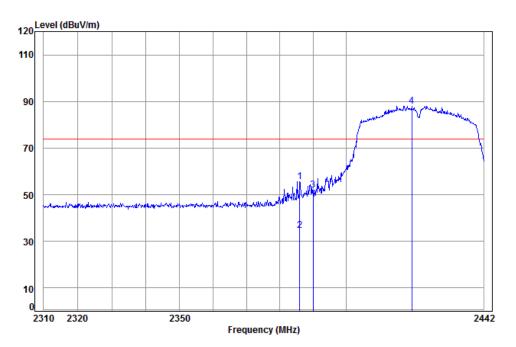
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB
1	pp	2459.999	5.39	29.28	38.15	108.00	104.52	74.00	30.52
2		2483.500	5.41	29.35	38.15	71.69	68.30	74.00	-5.70
3	av	2483.500	5.41	29.35	38.15	51.54	48.15	54.00	-5.85



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



Condition: 3m VERTICAL Job No: : 4987CR

: 2422 Band edge Mode:

: N40

1

Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line Limit dB/m dBuV dBuV/m dBuV/m 2385.930 5.33 29.07 38.14 59.32 55.58 74.00 -18.42 38.14 38.54 34.80 54.00 -19.20 2 av 2385.930 5.33 29.07 3 2390.000 5.34 29.08 38.14 55.87 52.15 74.00 -21.85 4 pp 2419.980 5.36 29.17 38.15 91.71 88.09 74.00 14.09

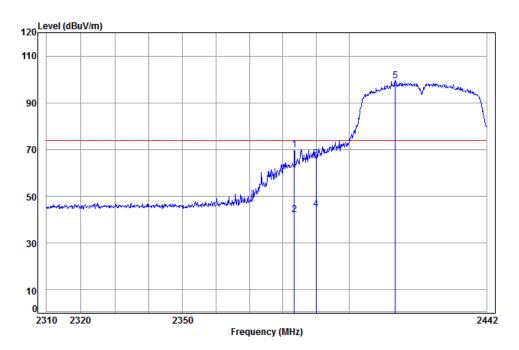
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802.11n(HT40) Test channel: Remark: Peak Worse case mode: Lowest Horizontal



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2422 Band edge

	•		- Dania	cage					
		: N40							
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		2383.413	5.33	29.06	38.14	73.85	70.10	74.00	-3.90
2		2383.413	5.33	29.06	38.14	46.00	42.25	54.00	-11.75
3		2390.000	5.34	29.08	38.14	69.87	66.15	74.00	-7.85
4	av	2390.000	5.34	29.08	38.14	48.20	44.48	54.00	-9.52
5	pp	2414.071	5.36	29.15	38.15	102.99	99.35	74.00	25.35

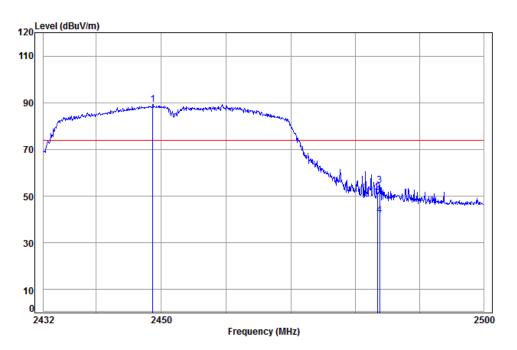
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Vertical



Condition: 3m VERTICAL Job No: : 4987CR

Mode: : 2452 Band edge

: N40

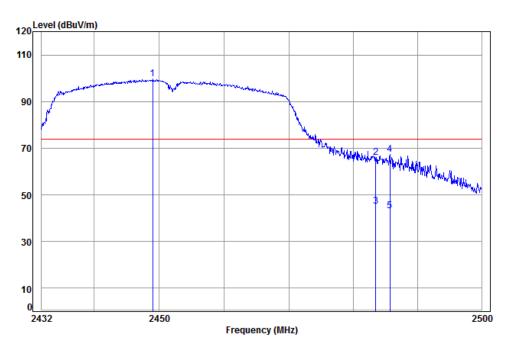
			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2448.689	5.38	29.25	38.15	92.64	89.12	74.00	15.12
2		2483.500	5.41	29.35	38.15	55.00	51.61	74.00	-22.39
3		2483.782	5.41	29.35	38.15	57.89	54.50	74.00	-19.50
4	av	2483.782	5.41	29.35	38.15	45.21	41.82	54.00	-12.18



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



Condition: 3m HORIZONTAL

Job No: : 4987CR

Mode: : 2452 Band edge

: N40

			Cable	Ant	Preamp	Read		Limit	0ver
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	рр	2449.027	5.38	29.25	38.15	103.13	99.61	74.00	25.61
2		2483.500	5.41	29.35	38.15	69.33	65.94	74.00	-8.06
3	av	2483.500	5.41	29.35	38.15	48.51	45.12	54.00	-8.88
4		2485.701	5.41	29.36	38.15	70.74	67.36	74.00	-6.64
5		2/185 701	5 /11	29 36	38 15	46 69	/13 31	5/ 00	-10 69

Note:

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

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



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7 Photographs - EUT Test Setup

Test model No.: SBC-EC8800

7.1 Conducted Emission



7.2 Radiated Emission

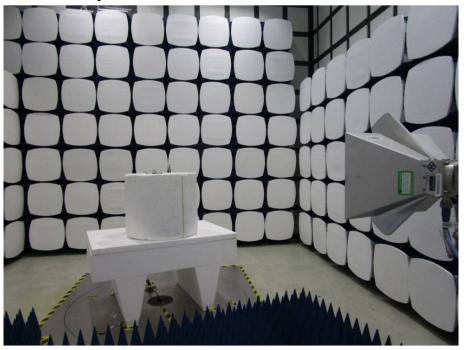




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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1606004987CR.