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Report No.: FCC11-RTE092802
Page 1 of 61

FCC REPORT

Applicant: Archos SA

Address of Applicant: 12 Rue Ampere Igny France 91430

Equipment Under Test (EUT)

Product Name: A80H

Model No.: 9081

Trade mark: Archos

FCC ID: SOV9081

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

Date of sample receipt: Aug. 26, 2011

Date of Test: Aug. 29- Sep. 27, 2011

Date of report issued: Sep. 28, 2011

Test Result : Pass *

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

Authorized Signature:

Kavin Yu
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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 EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

Version No.	Date	Description
00	Sep. 28, 2011	Original

Prepared By:

Collin He

Date:

Sep. 28, 2011

Project Engineer

Check By:

Hans. Hu

Date:

Sep. 28, 2011

Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Archos SA
Address of Applicant:	12 Rue Ampere Igny France 91430
Manufacturer:	Archos SA
Address of Manufacturer:	12 Rue Ampere Igny France 91430
Factory:	Excelsior Electronics
Address of Factory:	Sam Tuen Management Zone, Houjie, Dongguan Guangdong PRC

5.2 General Description of E.U.T.

Product Name:	A80H
Model No.:	9081
Trade mark:	Archos
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integral
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Model:MD-TRC0620DC Input: AC 100-240V 0.3A(MAX)50/60Hz Output: DC 5.0V1.5A



Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz		

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:

802.11b/802.11g/802.11n(H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz



5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in transmitting continuously mode.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20)

5.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology 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 files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China Tel: 0755-27798480 Fax: 0755-27798960

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5.6 Test Instruments list

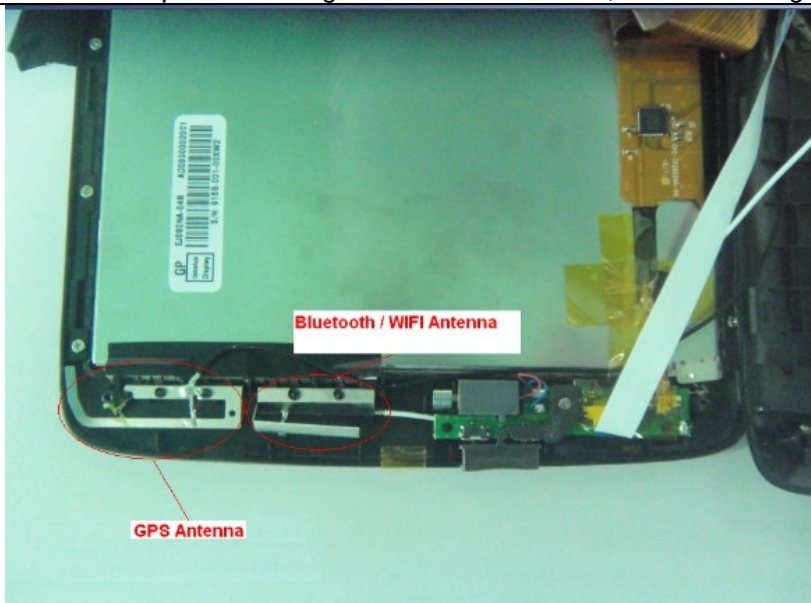
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>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.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
E.U.T Antenna:	
The antenna port is an integral antenna inside EUT, the best case gain of the antenna is 2.0dBi.	
	



6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.		
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p></div>		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

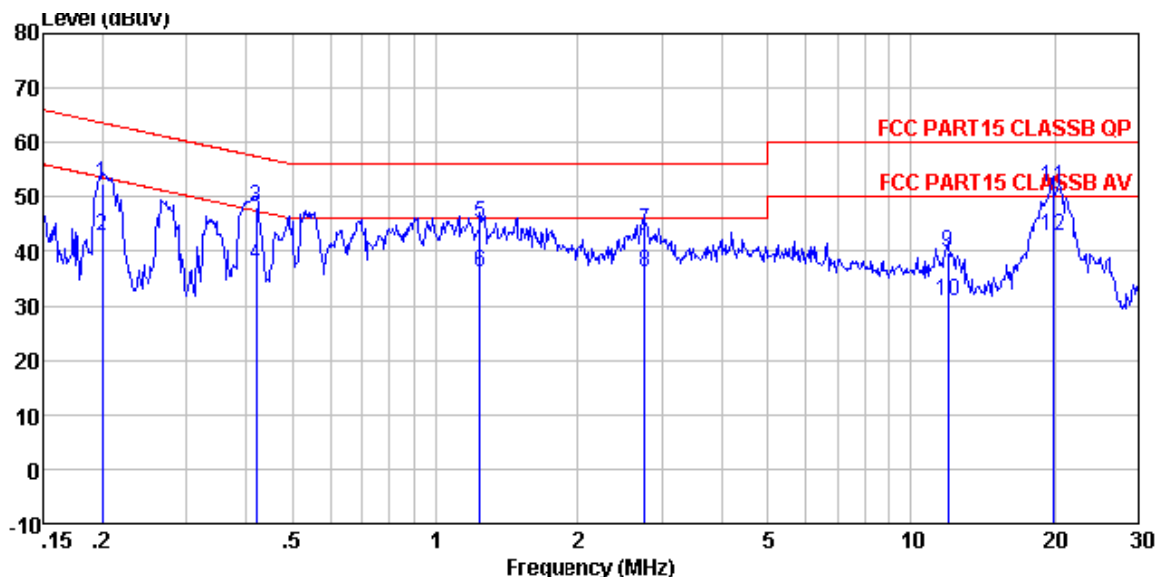
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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Line:



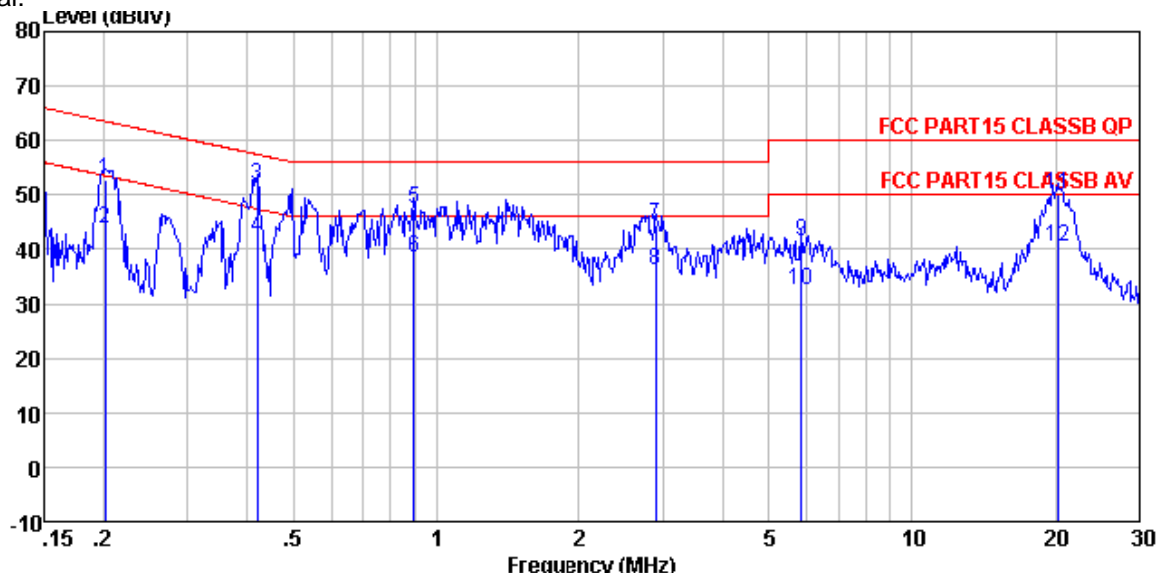
Condition : FCC PART15 CLASSB QP LISN(2011) LINE
Job No. : 732IT
Test Mode : WIFI mode
Test Engineer: Collin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.200	51.79	0.66	0.10	52.55	63.62	-11.07	QP
2	0.200	42.07	0.66	0.10	42.83	53.62	-10.79	Average
3	0.419	47.59	0.57	0.10	48.26	57.46	-9.20	QP
4	0.419	36.82	0.57	0.10	37.49	47.46	-9.97	Average
5	1.236	44.43	0.45	0.10	44.98	56.00	-11.02	QP
6	1.236	35.58	0.45	0.10	36.13	46.00	-9.87	Average
7	2.765	43.32	0.36	0.10	43.78	56.00	-12.22	QP
8	2.765	35.66	0.36	0.10	36.12	46.00	-9.88	Average
9	11.933	39.56	0.20	0.20	39.96	60.00	-20.04	QP
10	11.933	30.49	0.20	0.20	30.89	50.00	-19.11	Average
11	19.845	51.27	0.15	0.21	51.63	60.00	-8.37	QP
12	19.845	42.55	0.15	0.21	42.91	50.00	-7.09	Average

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Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 732IT

Test Mode : WIFI mode

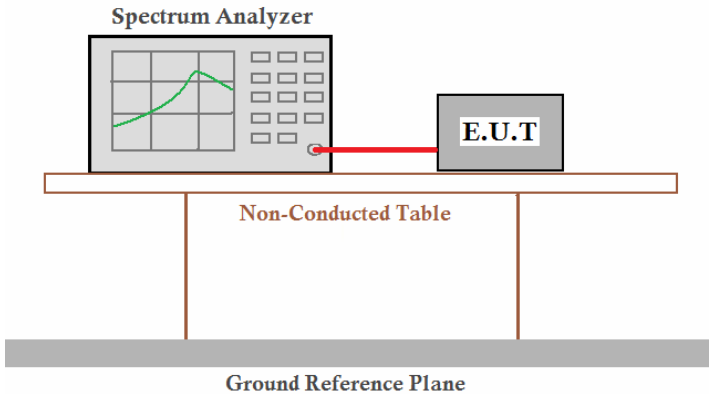
Test Engineer: Collin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.202	52.12	0.66	0.10	52.88	63.54	-10.66	QP
2	0.202	43.19	0.66	0.10	43.95	53.54	-9.59	Average
3	0.419	51.01	0.57	0.10	51.68	57.46	-5.78	QP
4	0.419	41.62	0.57	0.10	42.29	47.46	-5.17	Average
5	0.894	46.85	0.49	0.10	47.44	56.00	-8.56	QP
6	0.894	37.91	0.49	0.10	38.50	46.00	-7.50	Average
7	2.900	44.12	0.36	0.10	44.58	56.00	-11.42	QP
8	2.900	35.68	0.36	0.10	36.14	46.00	-9.86	Average
9	5.867	41.02	0.28	0.11	41.41	60.00	-18.59	QP
10	5.867	32.19	0.28	0.11	32.58	50.00	-17.42	Average
11	20.162	49.75	0.14	0.21	50.10	60.00	-9.90	QP
12	20.162	40.19	0.14	0.21	40.54	50.00	-9.46	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.

6.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.25	30.00	Pass
Middle	10.37	30.00	Pass
Highest	10.42	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.33	30.00	Pass
Middle	10.55	30.00	Pass
Highest	10.76	30.00	Pass
802.11n-H20 mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.18	30.00	Pass
Middle	8.33	30.00	Pass
Highest	8.21	30.00	Pass

Test plot as follows:

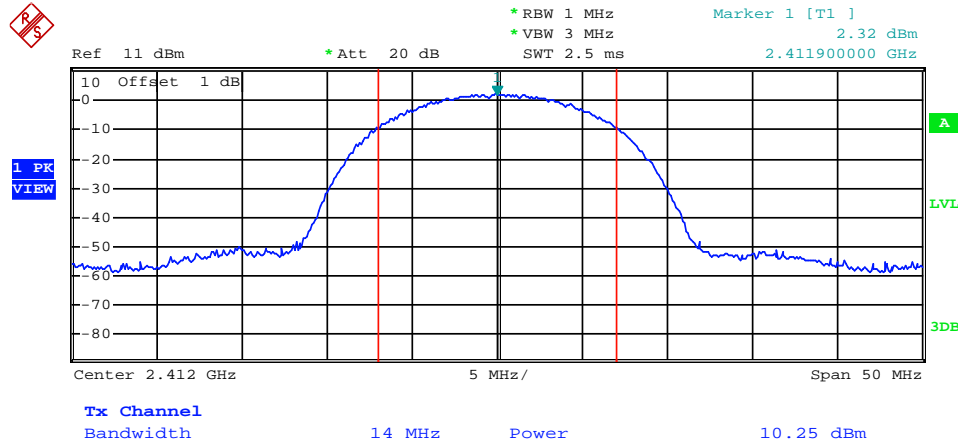


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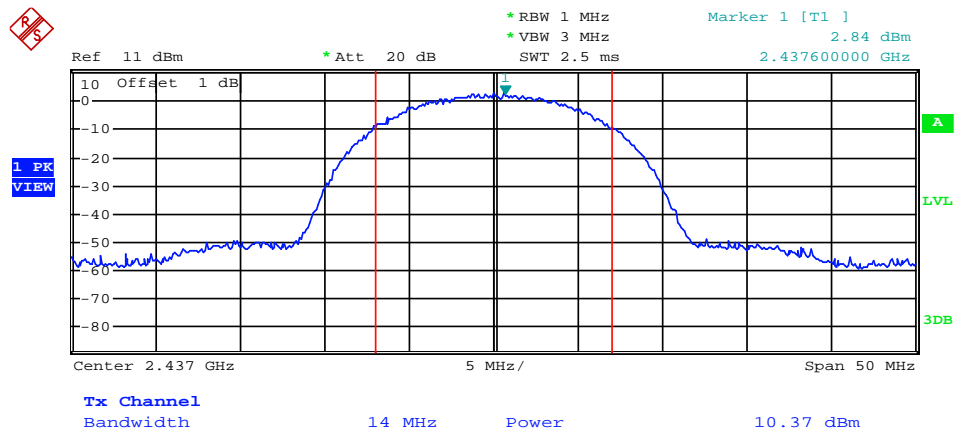
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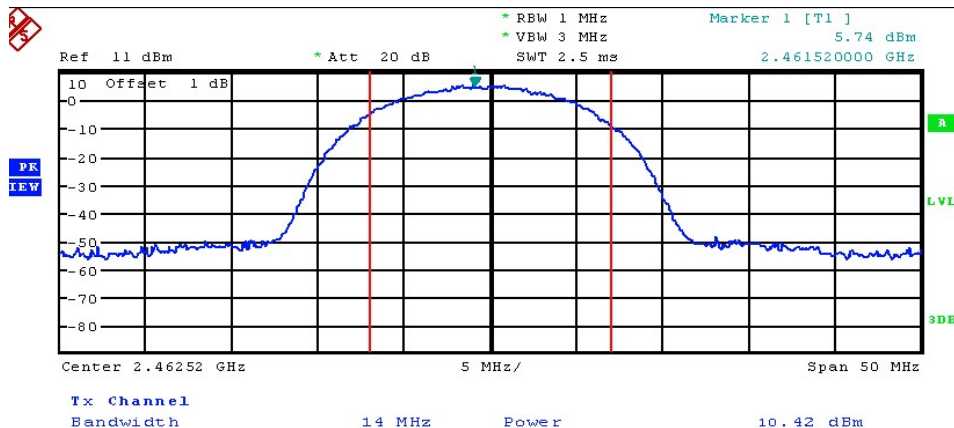
Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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Test mode:	802.11b	Test channel:	Highest
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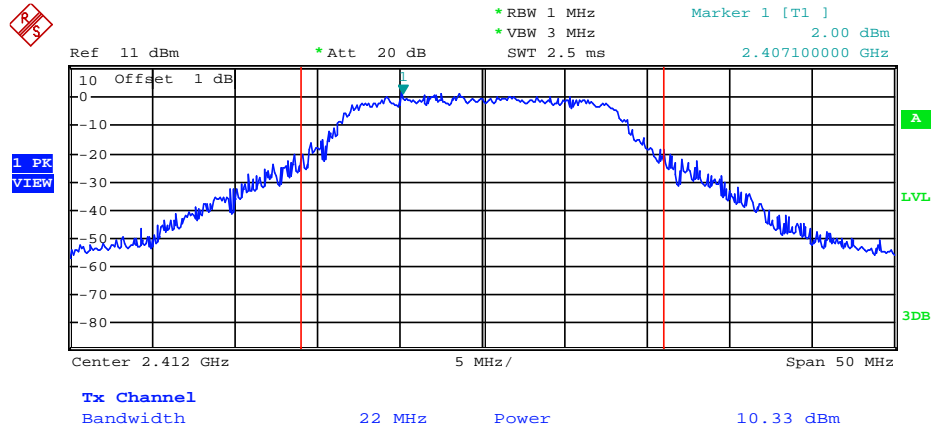


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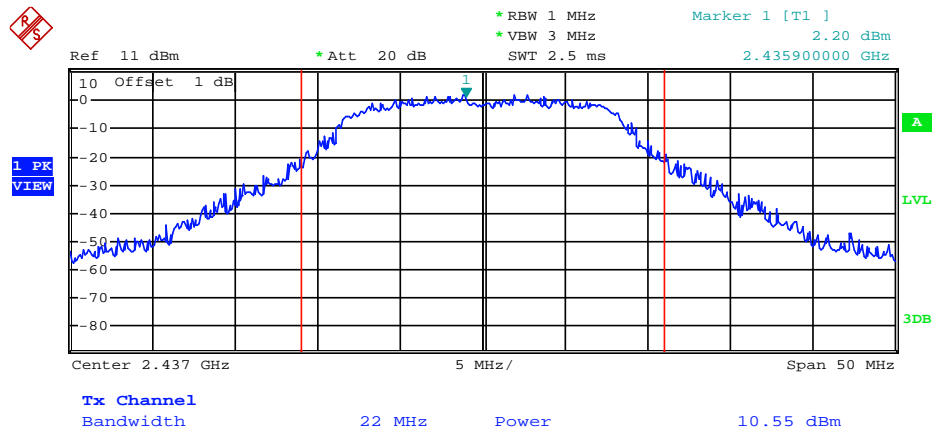
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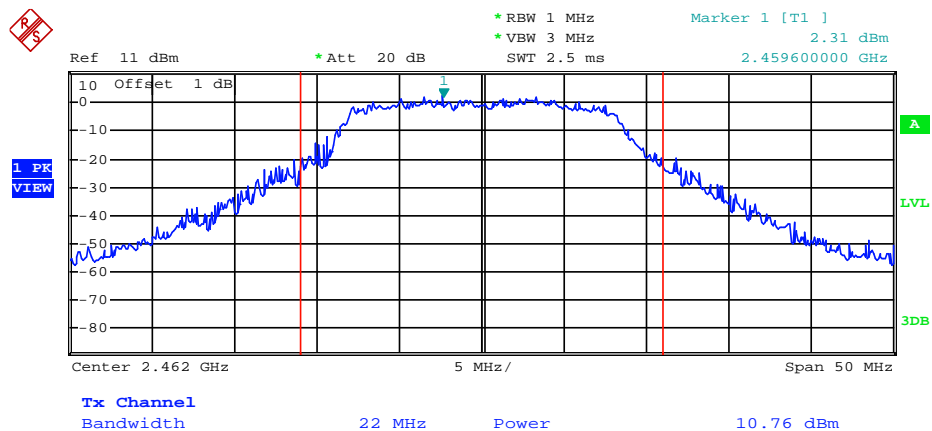
Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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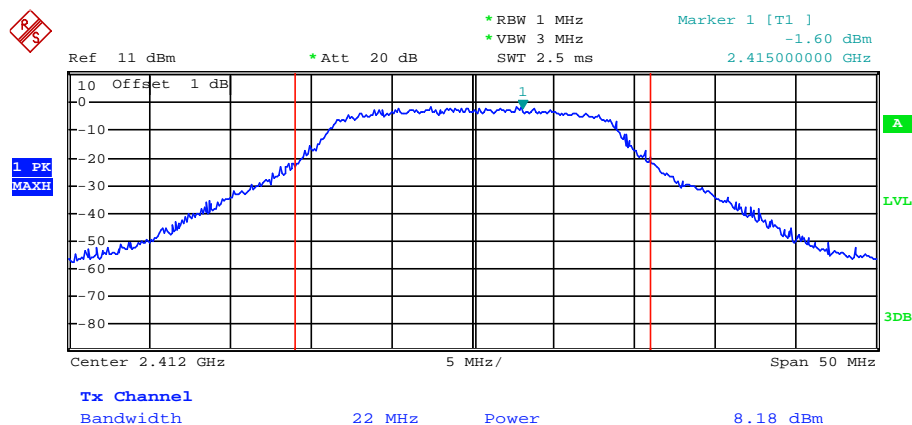


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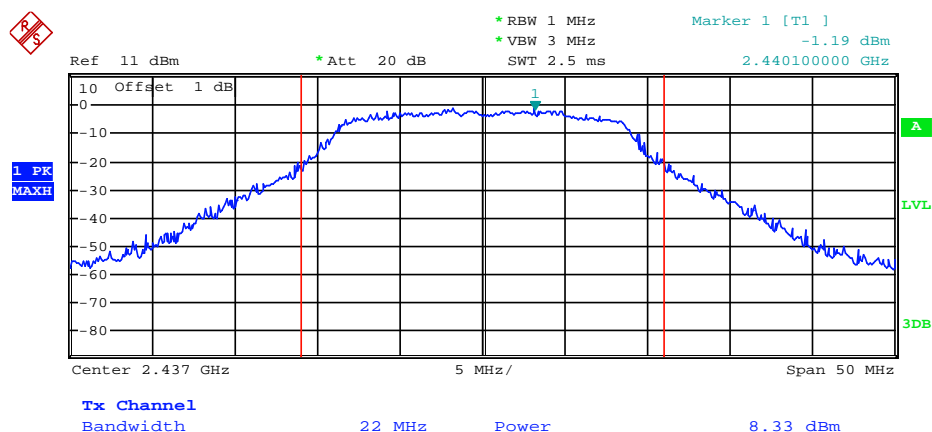
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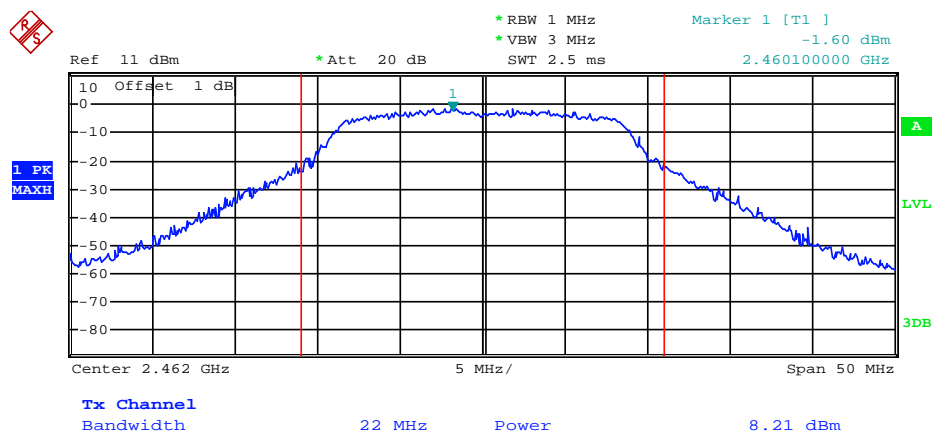
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Test mode:	802.11n(H20)	Test channel:	Middle
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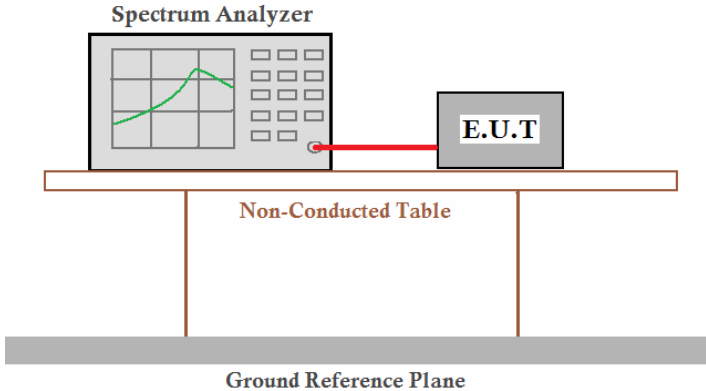


Test mode:	802.11n(H20)	Test channel:	Highest
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6.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	9.92	>500	Pass
Middle	10.12	>500	Pass
Highest	10.12	>500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	16.40	>500	Pass
Middle	16.00	>500	Pass
Highest	16.32	>500	Pass
802.11n-H20 mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	17.52	>500	Pass
Middle	16.04	>500	Pass
Highest	16.64	>500	Pass

Test plot as follows:

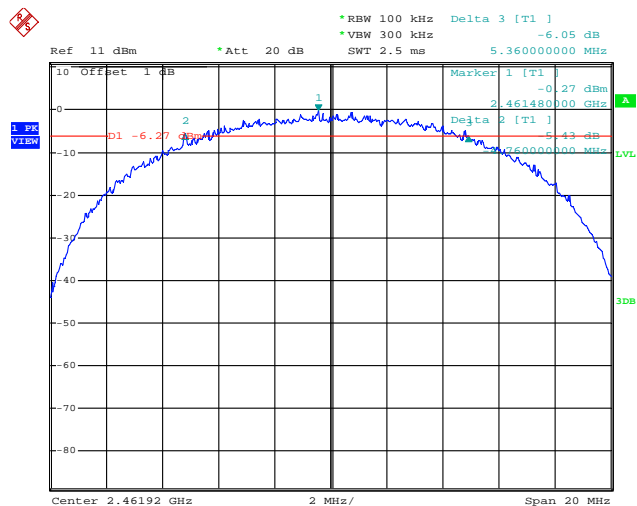


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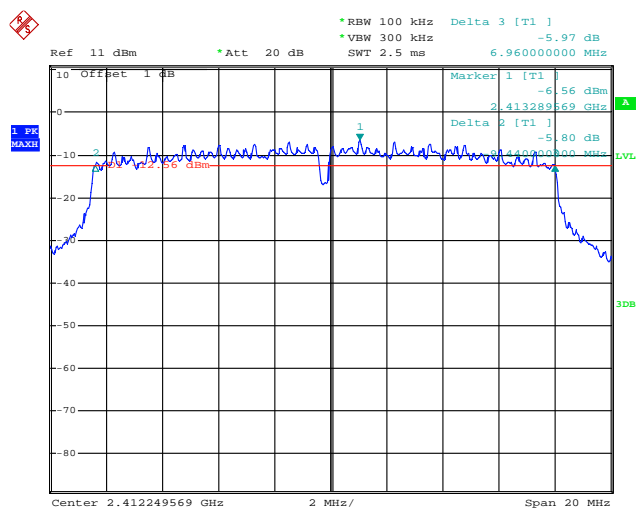
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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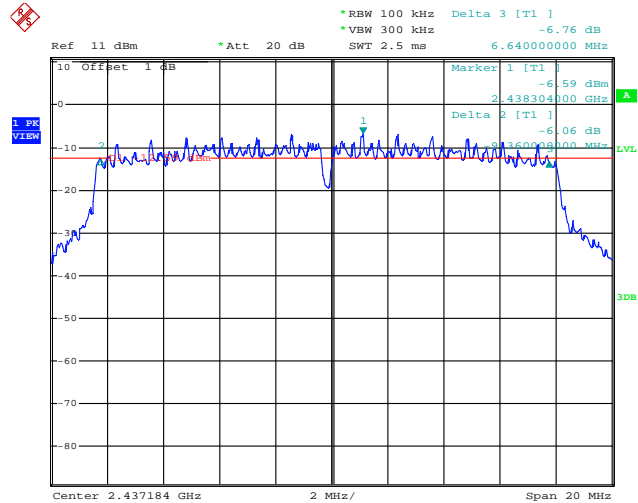


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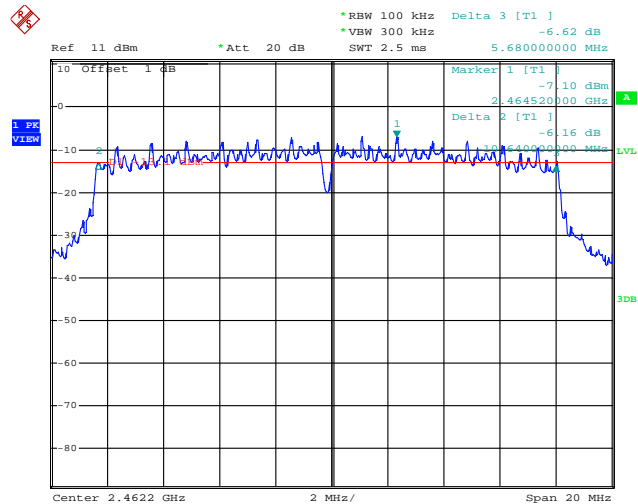
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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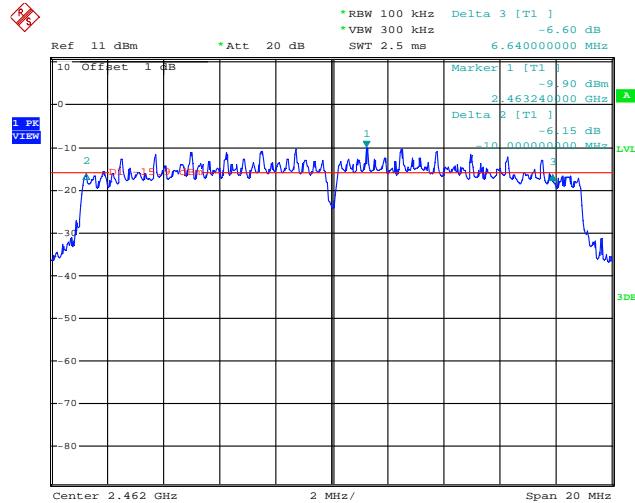


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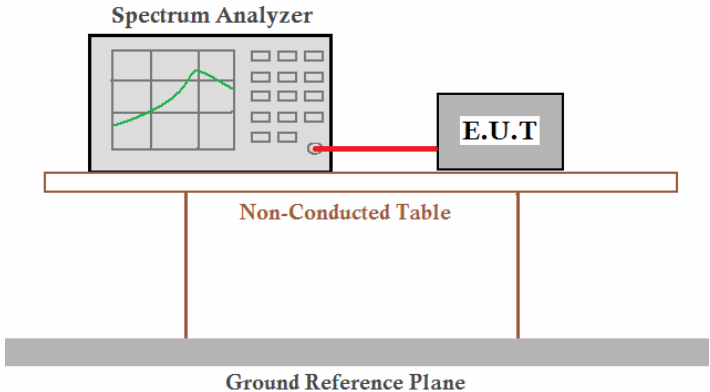
Test mode:	802.11n-H20	Test channel:	Highest
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6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



Measurement Data

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-16.00	8.00	Pass
Middle	-14.79	8.00	Pass
Highest	-15.85	8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-21.73	8.00	Pass
Middle	-22.19	8.00	Pass
Highest	-21.71	8.00	Pass
802.11n-H20 mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-23.94	8.00	Pass
Middle	-24.19	8.00	Pass
Highest	-26.90	8.00	Pass

Test plot as follows:

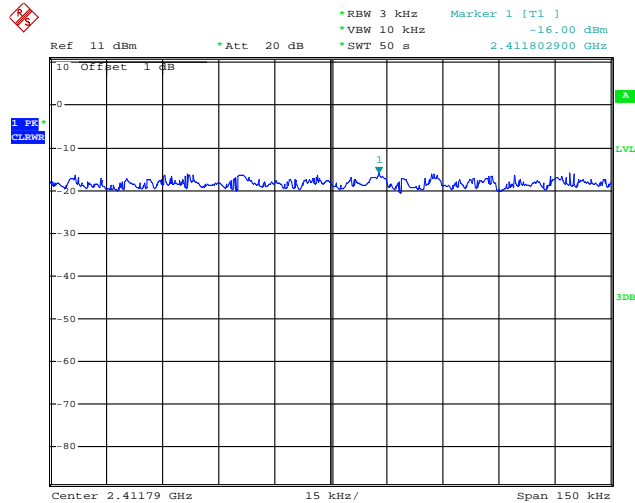


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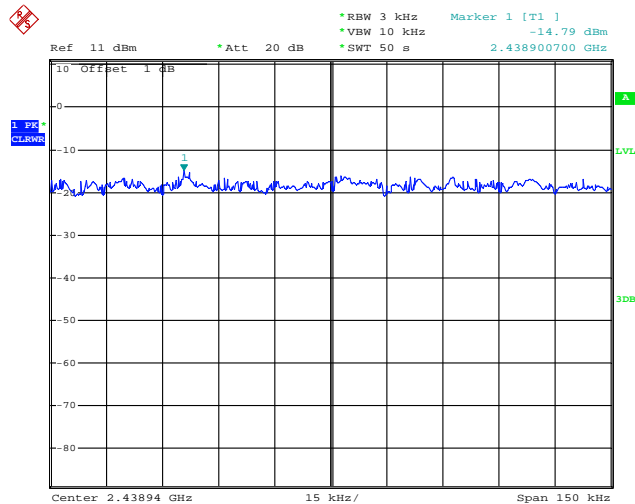
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Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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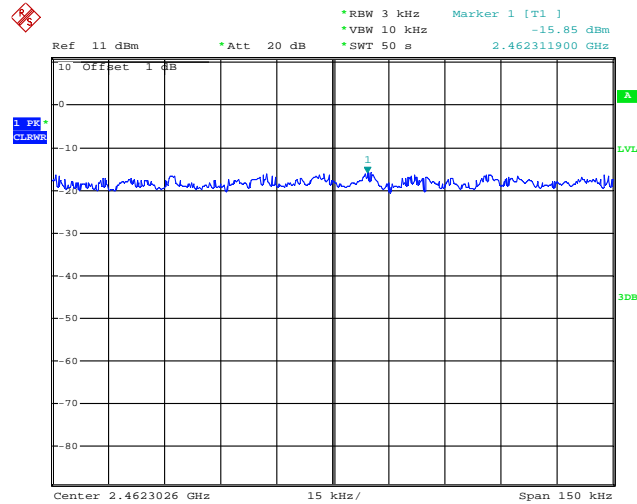


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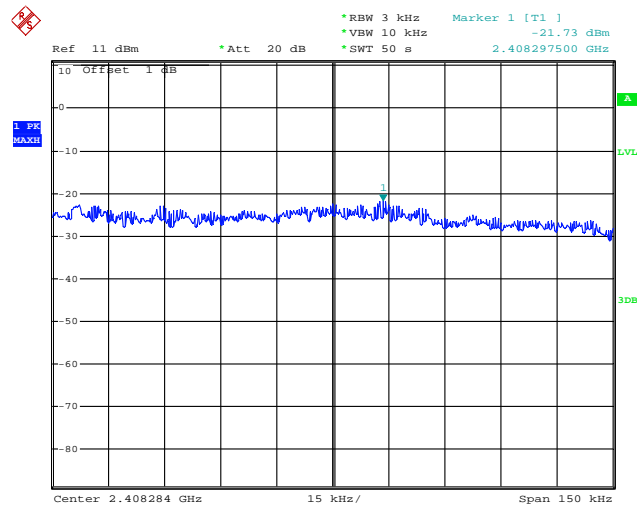
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Test mode:	802.11b	Test channel:	Highest
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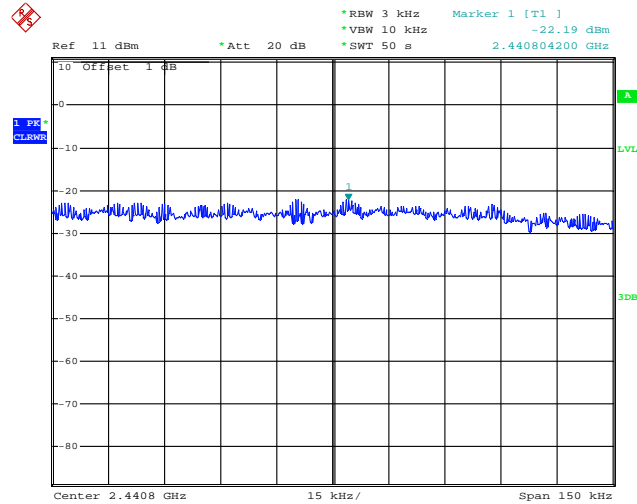
Test mode:	802.11g	Test channel:	Lowest
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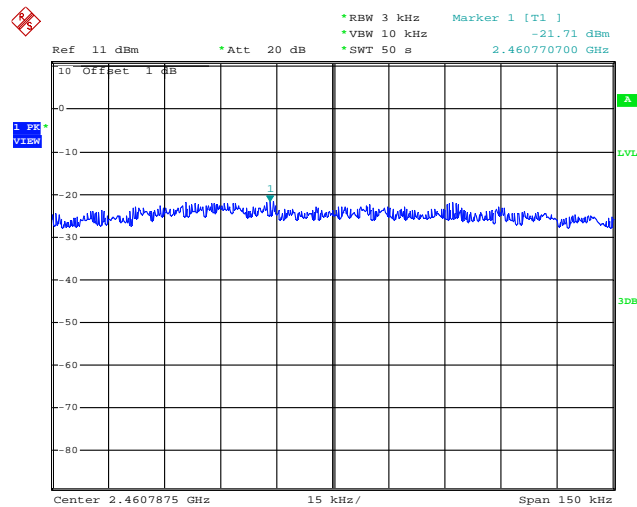
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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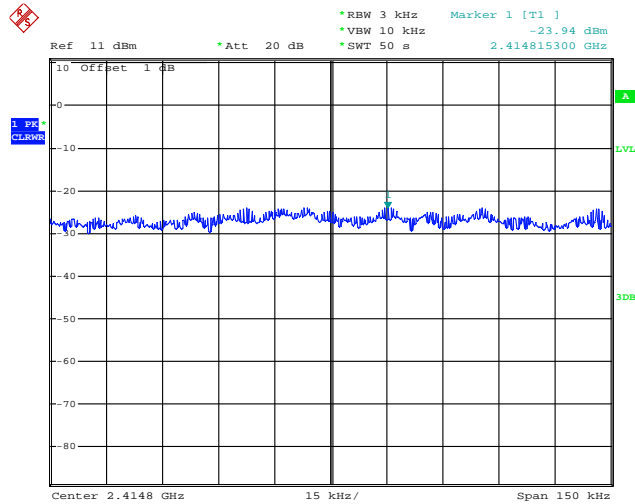


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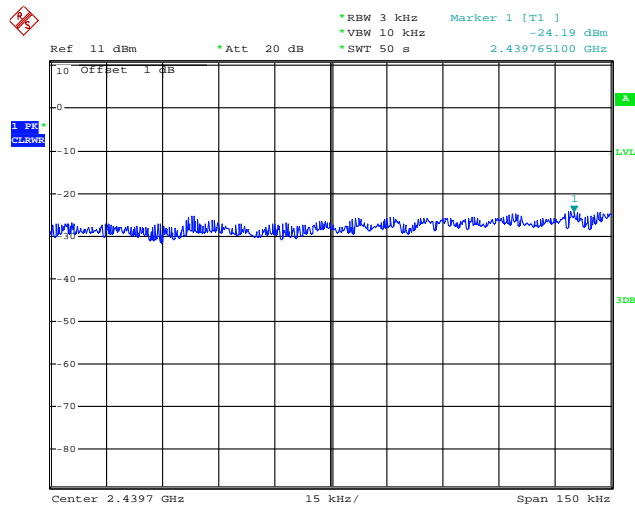
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Test mode:	802.11n-H20	Test channel:	Lowest
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Test mode:	802.11n-H20	Test channel:	Middle
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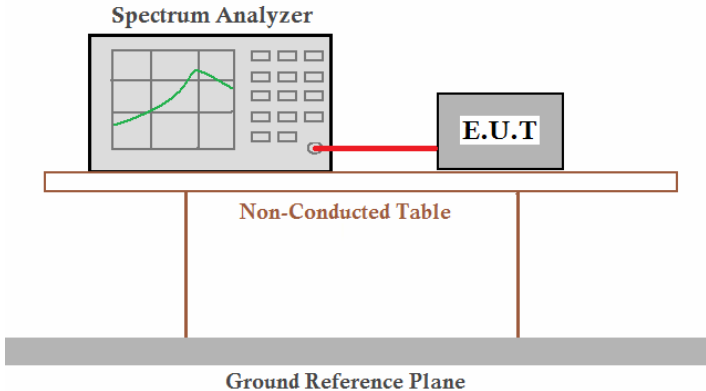


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6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
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.
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:

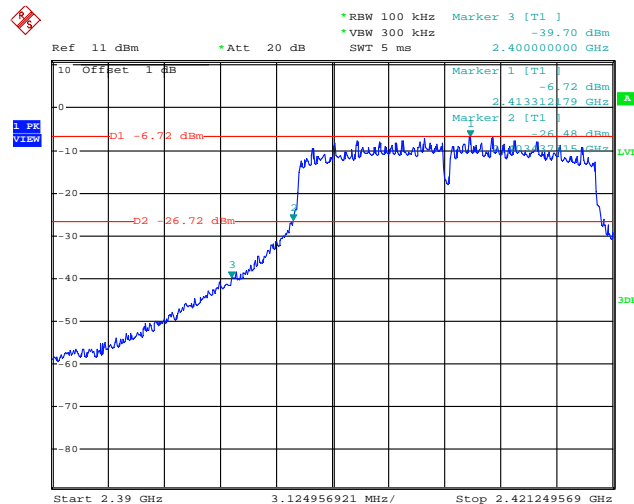


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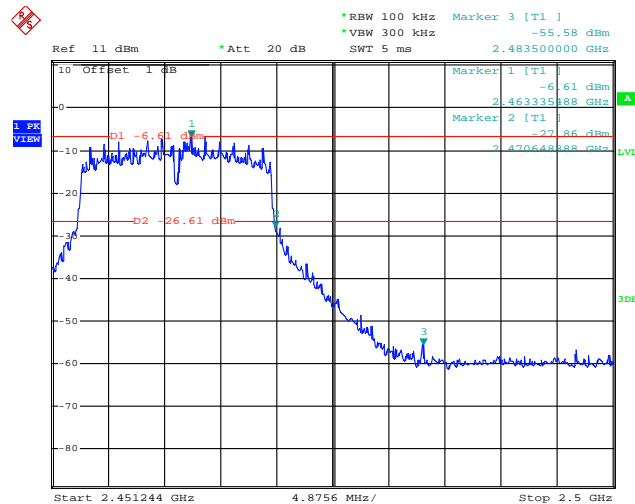
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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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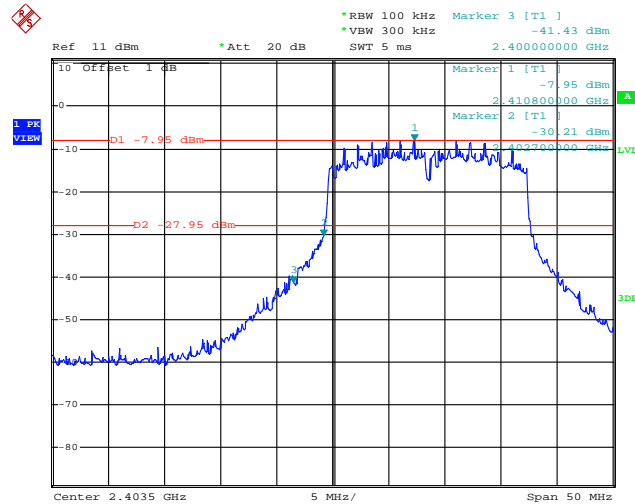


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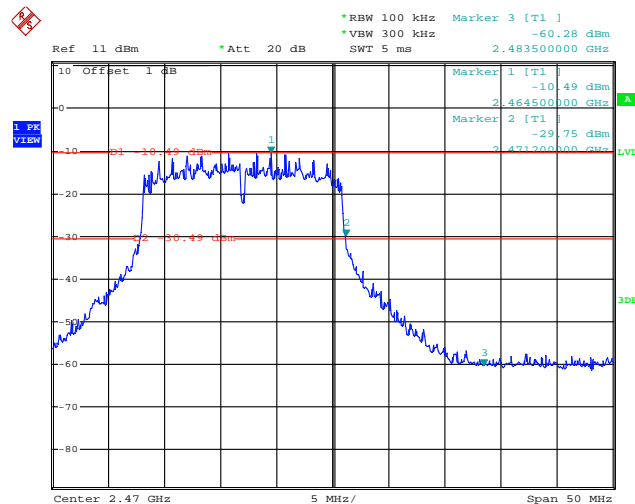
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Test mode:	802.11n (H20)	Test channel:	Lowest
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Test mode:	802.11n (H20)	Test channel:	Highest
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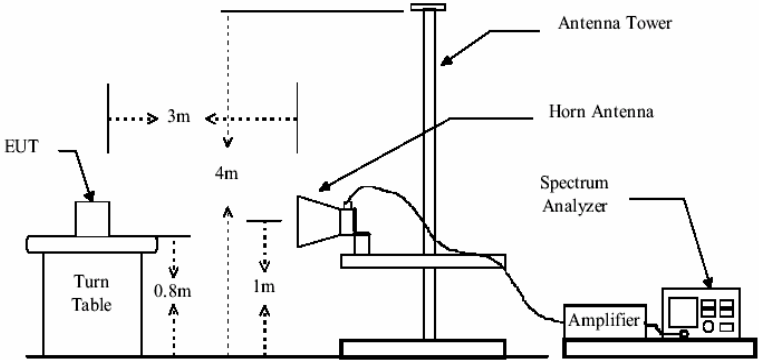


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6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	2.3GHz to 2.5GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Average		1MHz	10Hz	Average Value	
Limit:					
	Frequency		Limit (dBuV/m @3m)		Remark
	Above 1GHz		54.0		Average Value
74.0			Peak Value		
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>				

Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$



Measurement data:

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	51.47	27.59	3.33	30.10	52.29	74.00	-21.71	Vertical			
2400.00	55.63	27.58	3.37	30.10	56.48	74.00	-17.52	Vertical			
2390.00	52.82	27.59	3.33	30.10	53.64	74.00	-20.36	Horizontal			
2400.00	56.69	27.58	3.37	30.10	57.54	74.00	-16.46	Horizontal			

Test mode:		802.11b		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	35.11	27.59	3.33	30.10	35.93	54.00	-18.07	Vertical			
2400.00	38.62	27.58	3.37	30.10	39.47	54.00	-14.53	Vertical			
2390.00	36.46	27.59	3.33	30.10	37.28	54.00	-16.72	Horizontal			
2400.00	39.68	27.58	3.37	30.10	40.53	54.00	-13.47	Horizontal			

Test mode:		802.11b		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	55.91	27.55	3.52	30.70	56.28	74.00	-17.72	Vertical			
2500.00	52.01	27.53	3.49	29.93	53.10	74.00	-20.90	Vertical			
2483.50	57.07	27.55	3.52	30.70	57.44	74.00	-16.56	Horizontal			
2500.00	53.41	27.53	3.49	29.93	54.50	74.00	-19.50	Horizontal			

Test mode:		802.11b		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	38.87	27.53	3.49	29.93	39.96	54.00	-14.04	Vertical			
2500.00	34.30	27.55	3.52	30.70	34.67	54.00	-19.33	Vertical			
2483.50	40.27	27.53	3.49	29.93	41.36	54.00	-12.64	Horizontal			
2500.00	35.46	27.55	3.52	30.70	35.83	54.00	-18.17	Horizontal			

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Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	49.92	27.59	3.33	30.10	50.74	74.00	-23.26	Vertical			
2400.00	54.01	27.58	3.37	30.10	54.86	74.00	-19.14	Vertical			
2390.00	51.46	27.59	3.33	30.10	52.28	74.00	-21.72	Horizontal			
2400.00	55.29	27.58	3.37	30.10	56.14	74.00	-17.86	Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	35.18	27.59	3.33	30.10	36.00	54.00	-18.00	Vertical			
2400.00	39.10	27.58	3.37	30.10	39.95	54.00	-14.05	Vertical			
2390.00	37.16	27.59	3.33	30.10	37.98	54.00	-16.02	Horizontal			
2400.00	40.91	27.58	3.37	30.10	41.76	54.00	-12.24	Horizontal			

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	54.70	27.55	3.52	30.70	55.07	74.00	-18.93	Vertical			
2500.00	50.75	27.53	3.49	29.93	51.84	74.00	-22.16	Vertical			
2483.50	55.96	27.55	3.52	30.70	56.33	74.00	-17.67	Horizontal			
2500.00	52.35	27.53	3.49	29.93	53.44	74.00	-20.56	Horizontal			

Test mode:		802.11g		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	40.29	27.53	3.49	29.93	41.38	54.00	-12.62	Vertical			
2500.00	36.03	27.55	3.52	30.70	36.40	54.00	-17.60	Vertical			
2483.50	40.60	27.53	3.49	29.93	41.69	54.00	-12.31	Horizontal			
2500.00	36.17	27.55	3.52	30.70	36.54	54.00	-17.46	Horizontal			

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Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	51.06	27.59	3.33	30.10	51.88	74.00	-22.12	Vertical			
2400.00	56.46	27.58	3.37	30.10	57.31	74.00	-16.69	Vertical			
2390.00	51.62	27.59	3.33	30.10	52.44	74.00	-21.56	Horizontal			
2400.00	55.53	27.58	3.37	30.10	56.38	74.00	-17.62	Horizontal			

Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2390.00	37.39	27.59	3.33	30.10	38.21	54.00	-15.79	Vertical			
2400.00	41.33	27.58	3.37	30.10	42.18	54.00	-11.82	Vertical			
2390.00	36.95	27.59	3.33	30.10	37.77	54.00	-16.23	Horizontal			
2400.00	40.67	27.58	3.37	30.10	41.52	54.00	-12.48	Horizontal			

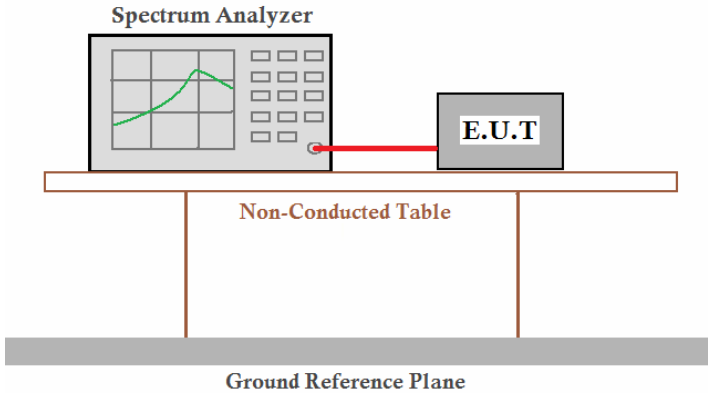
Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	54.58	27.53	3.49	29.93	55.67	74.00	-18.33	Vertical			
2500.00	50.19	27.55	3.52	30.70	50.56	74.00	-23.44	Vertical			
2483.50	54.26	27.53	3.49	29.93	55.35	74.00	-18.65	Horizontal			
2500.00	49.35	27.55	3.52	30.70	49.72	74.00	-24.28	Horizontal			

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
2483.50	40.57	27.53	3.49	29.93	41.66	54.00	-12.34	Vertical			
2500.00	37.44	27.55	3.52	30.70	37.81	54.00	-16.19	Vertical			
2483.50	39.62	27.53	3.49	29.93	40.71	54.00	-13.29	Horizontal			
2500.00	37.08	27.55	3.52	30.70	37.45	54.00	-16.55	Horizontal			

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6.7 Spurious Emission

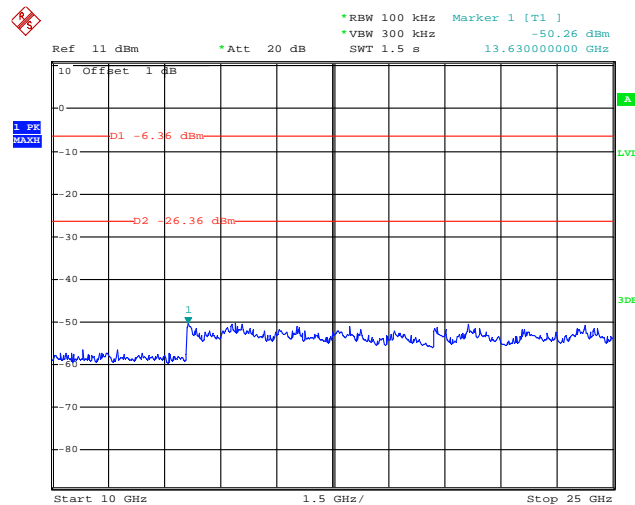
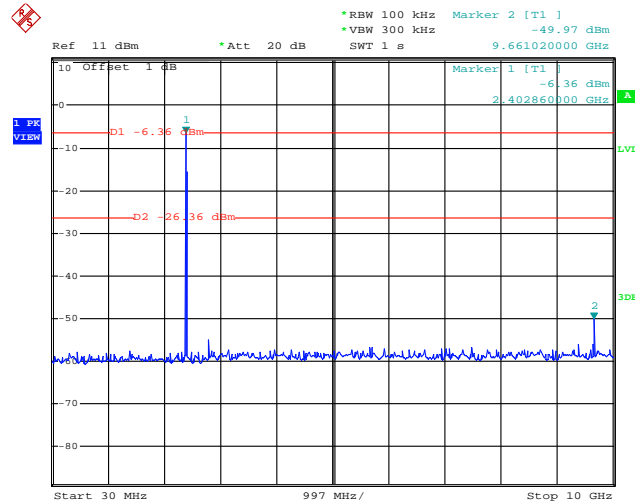
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
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.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Test plot as follows:



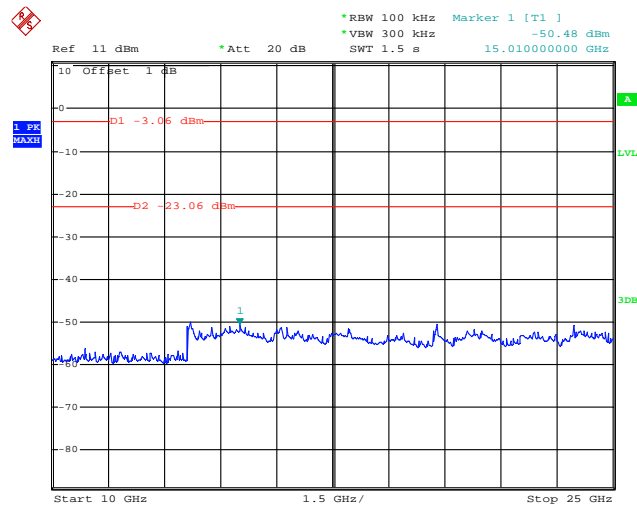
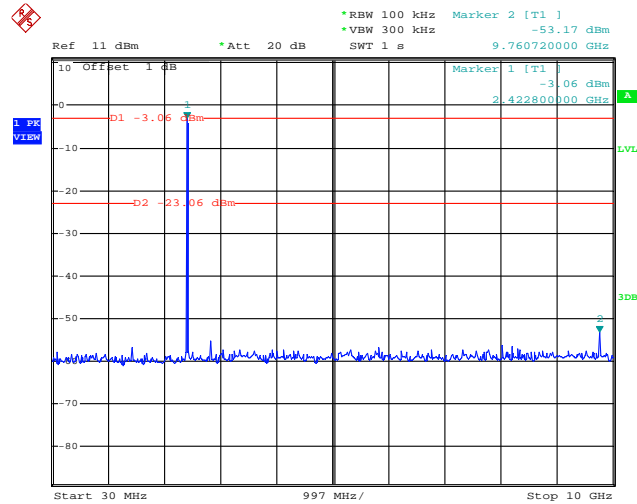
Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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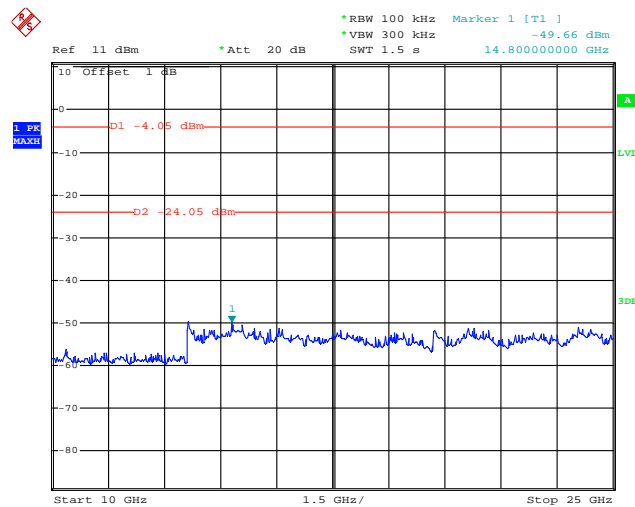
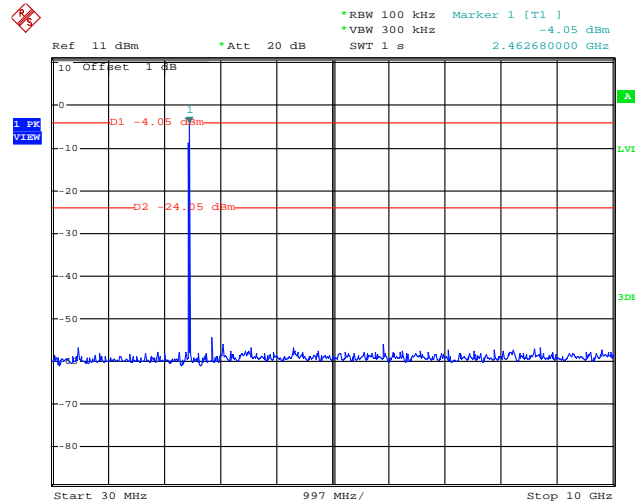


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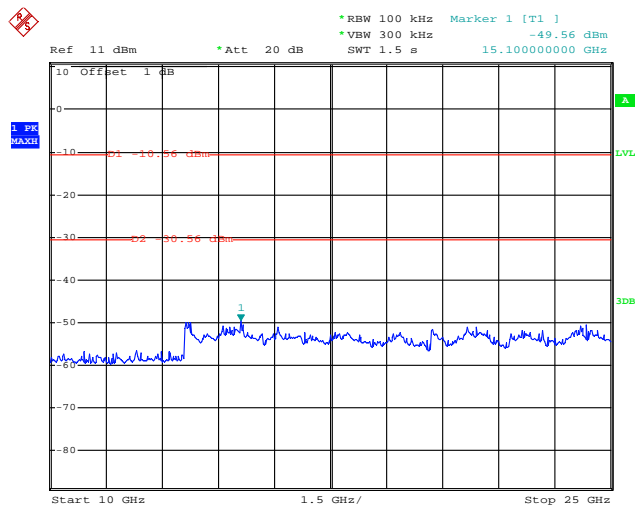
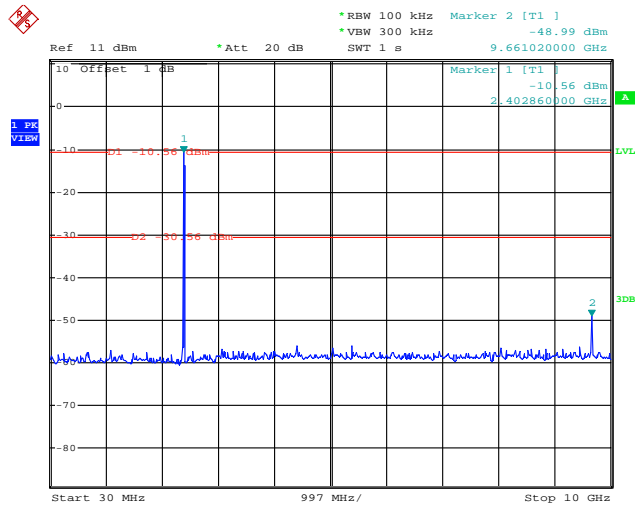
Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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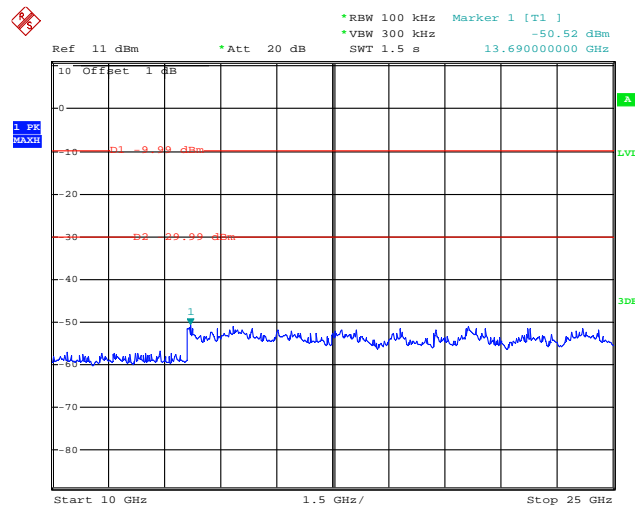
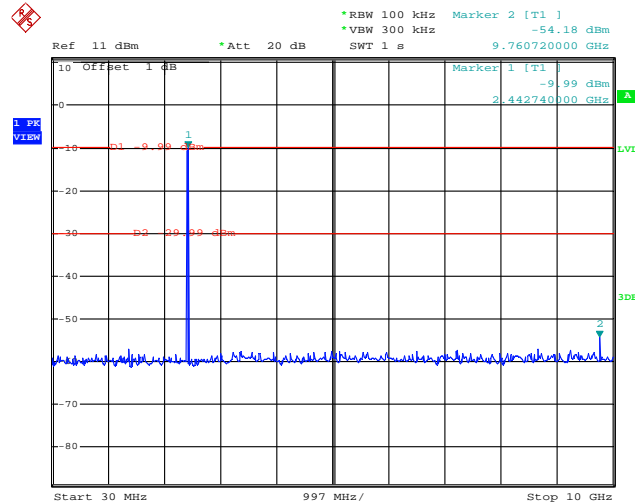


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Test mode:	802.11g	Test channel:	Middle
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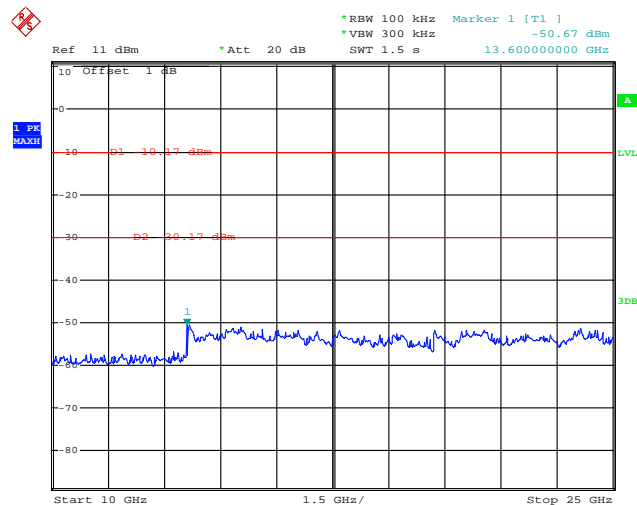
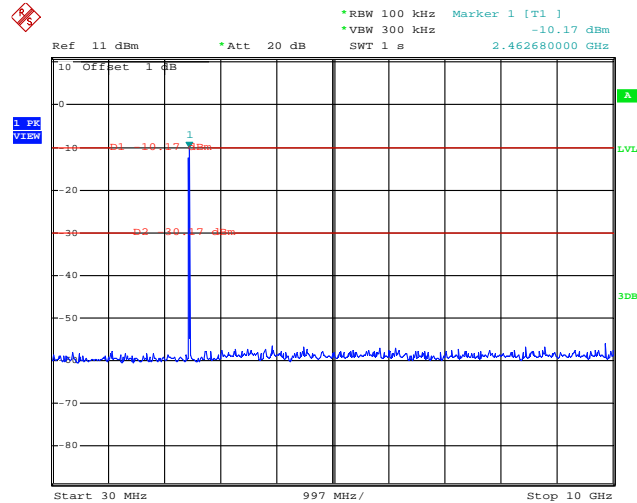


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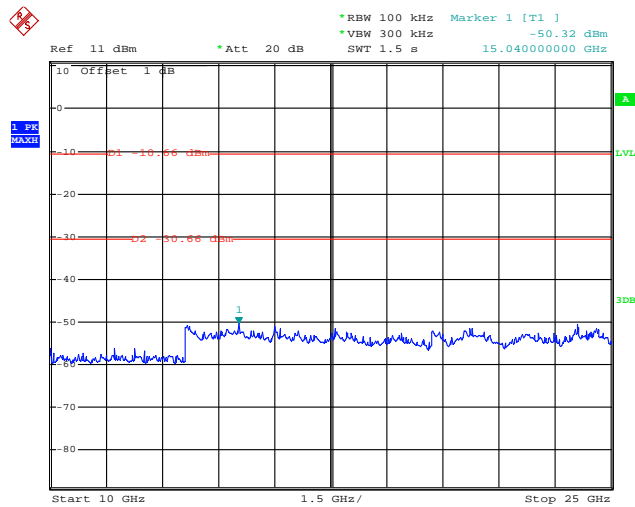
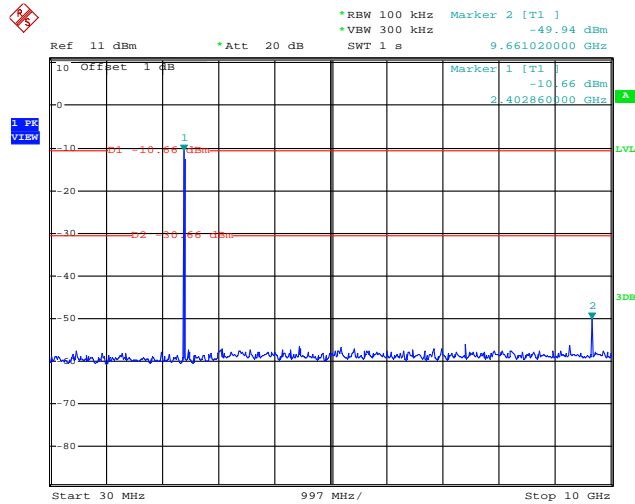
Test mode:	802.11g	Test channel:	Highest
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Test mode:	802.11n(H20)	Test channel:	Lowest
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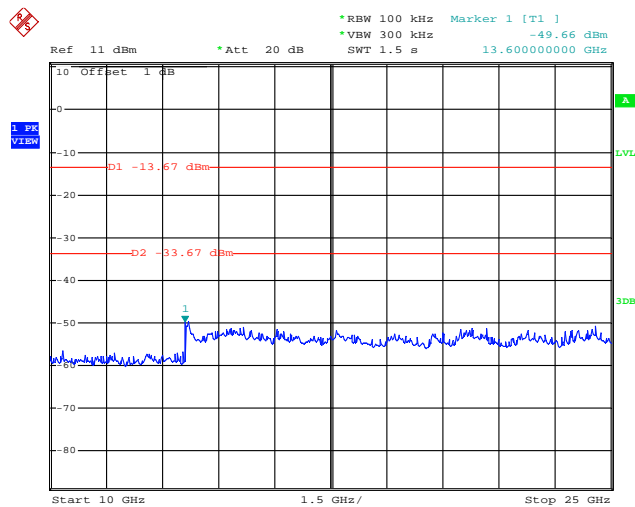
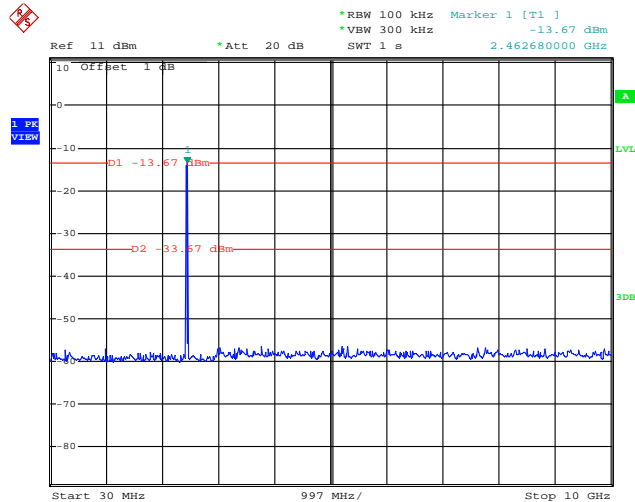


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Test mode:	802.11n(H20)	Test channel:	Highest
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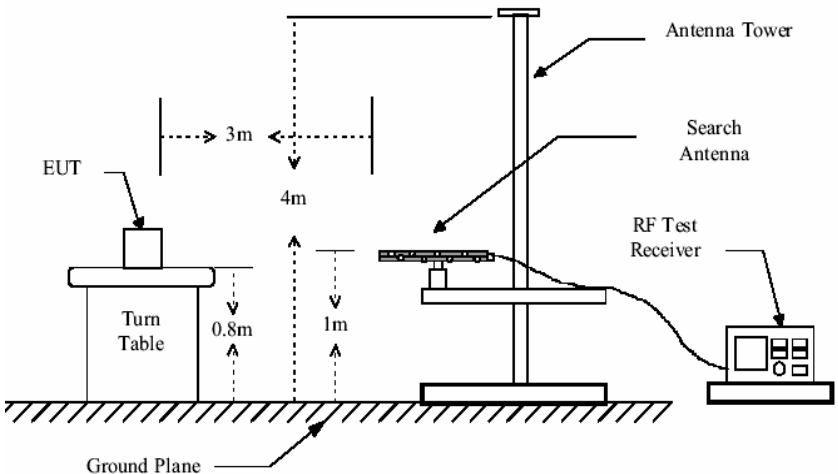
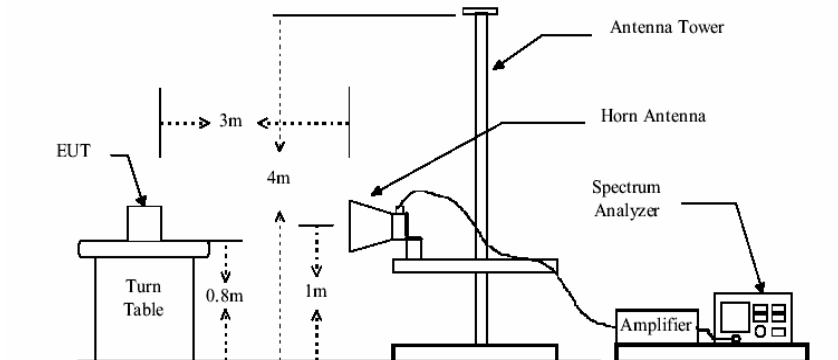
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6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2009				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Average		1MHz	10Hz	Average Value	
Limit:					
	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			74.0		Peak Value
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data</p>				

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Test setup:	<p>sheet.</p> <p>Below 1GHz</p>  <p>Above 1GHz</p> 
	<p>Test Instruments: Refer to section 5.6 for details</p> <p>Test mode: Refer to section 5.3 for details</p> <p>Test results: Pass</p>

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$



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Below 1GHz

Test in WIFI mode.

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.85	46.76	14.37	0.60	32.27	29.46	40.00	-10.54	Vertical
55.13	42.33	15.84	0.68	31.99	26.86	40.00	-13.14	Vertical
132.40	43.74	10.30	1.34	31.83	23.55	43.50	-19.95	Vertical
323.28	40.84	12.71	2.10	32.30	23.35	46.00	-22.65	Vertical
379.03	42.68	14.20	2.26	32.32	26.82	46.00	-19.18	Vertical
664.75	38.70	19.98	2.89	31.64	29.93	46.00	-16.07	Vertical
32.64	35.79	15.88	0.60	32.27	20.00	40.00	-20.00	Horizontal
65.43	40.58	10.66	0.76	31.93	20.07	40.00	-19.93	Horizontal
132.40	43.36	10.52	1.34	31.83	23.39	43.50	-20.11	Horizontal
215.02	42.97	10.82	1.83	32.27	23.35	43.50	-20.15	Horizontal
312.48	48.38	13.09	2.08	32.30	31.25	46.00	-14.75	Horizontal
465.91	44.01	19.45	2.34	31.92	33.88	46.00	-12.12	Horizontal

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Above 1GHz

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	42.77	31.79	5.34	24.07	55.83	74.00	-18.17	Vertical			
7236.00	33.97	36.19	6.88	26.44	50.60	74.00	-23.40	Vertical			
9648.00	32.54	38.07	8.96	25.36	54.21	74.00	-19.79	Vertical			
12060.00	31.26	39.05	10.35	25.15	55.51	74.00	-18.49	Vertical			
14472.00	---					74.00		Vertical			
16884.00	---					74.00		Vertical			
4824.00	44.41	31.79	5.34	24.07	57.47	74.00	-16.53	Horizontal			
7236.00	35.46	36.19	6.88	26.44	52.09	74.00	-21.91	Horizontal			
9648.00	33.88	38.07	8.96	25.36	55.55	74.00	-18.45	Horizontal			
12060.00	32.45	39.05	10.35	25.15	56.70	74.00	-17.30	Horizontal			
14472.00	---					74.00		Horizontal			
16884.00	---					74.00		Horizontal			

Test mode:		802.11b		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	24.02	31.79	5.34	24.07	37.08	54.00	-16.92	Vertical			
7236.00	19.00	36.19	6.88	26.44	35.63	54.00	-18.37	Vertical			
9648.00	17.05	38.07	8.96	25.36	38.72	54.00	-15.28	Vertical			
12060.00	15.94	39.05	10.35	25.15	40.19	54.00	-13.81	Vertical			
14472.00	---					54.00		Vertical			
16884.00	---					54.00		Vertical			
4824.00	25.63	31.79	5.34	24.07	38.69	54.00	-15.31	Horizontal			
7236.00	20.46	36.19	6.88	26.44	37.09	54.00	-16.91	Horizontal			
9648.00	18.36	38.07	8.96	25.36	40.03	54.00	-13.97	Horizontal			
12060.00	17.10	39.05	10.35	25.15	41.35	54.00	-12.65	Horizontal			
14472.00	---					54.00		Horizontal			
16884.00	---					54.00		Horizontal			

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	43.06	31.85	5.40	24.01	56.30	74.00	-17.70	Vertical			
7311.00	31.66	36.37	6.90	26.58	48.35	74.00	-25.65	Vertical			
9688.00	31.07	38.13	8.98	25.34	52.84	74.00	-21.16	Vertical			
12185.00	29.18	38.92	10.38	25.04	53.44	74.00	-20.56	Vertical			
14682.00	---					74.00		Vertical			
17179.00	---					74.00		Vertical			
4874.00	45.20	31.85	5.40	24.01	58.44	74.00	-15.56	Horizontal			
7311.00	33.69	36.37	6.90	26.58	50.38	74.00	-23.62	Horizontal			
9688.00	32.99	38.13	8.98	25.34	54.76	74.00	-19.24	Horizontal			
12185.00	30.99	38.92	10.38	25.04	55.25	74.00	-18.75	Horizontal			
14682.00	---					74.00		Horizontal			
17179.00	---					74.00		Horizontal			

Remark

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Test mode:		802.11b		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	25.44	31.85	5.40	24.01	38.68	54.00	-15.32	Vertical			
7311.00	18.71	36.37	6.90	26.58	35.40	54.00	-18.60	Vertical			
9688.00	15.04	38.13	8.98	25.34	36.81	54.00	-17.19	Vertical			
12185.00	16.31	38.92	10.38	25.04	40.57	54.00	-13.43	Vertical			
14682.00	---					54.00		Vertical			
17179.00	---					54.00		Vertical			
4874.00	27.48	31.85	5.40	24.01	40.72	54.00	-13.28	Horizontal			
7311.00	20.59	36.37	6.90	26.58	37.28	54.00	-16.72	Horizontal			
9688.00	16.76	38.13	8.98	25.34	38.53	54.00	-15.47	Horizontal			
12185.00	17.87	38.92	10.38	25.04	42.13	54.00	-11.87	Horizontal			
14682.00	---					54.00		Horizontal			
17179.00	---					54.00		Horizontal			

Test mode:		802.11b		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	40.87	31.89	5.46	23.96	54.26	74.00	-19.74	Vertical			
7386.00	33.21	36.49	6.93	26.79	49.84	74.00	-24.16	Vertical			
9848.00	30.28	38.24	9.05	25.30	52.27	74.00	-21.73	Vertical			
12310.00	28.90	38.83	10.41	24.90	53.24	74.00	-20.76	Vertical			
14772.00	---					74.00		Vertical			
17234.00	---					74.00		Vertical			
4924.00	42.91	31.89	5.46	23.96	56.30	74.00	-17.70	Horizontal			
7386.00	35.16	36.49	6.93	26.79	51.79	74.00	-22.21	Horizontal			
9848.00	32.14	38.24	9.05	25.30	54.13	74.00	-19.87	Horizontal			
12310.00	30.67	38.83	10.41	24.90	55.01	74.00	-18.99	Horizontal			
14772.00	---					74.00		Horizontal			
17234.00	---					74.00		Horizontal			

Test mode:		802.11b		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	24.21	31.89	5.46	23.96	37.60	54.00	-16.40	Vertical			
7386.00	19.25	36.49	6.93	26.79	35.88	54.00	-18.12	Vertical			
9848.00	20.52	38.24	9.05	25.30	42.51	54.00	-11.49	Vertical			
12310.00	17.21	38.83	10.41	24.90	41.55	54.00	-12.45	Vertical			
14772.00	---					54.00		Vertical			
17234.00	---					54.00		Vertical			
4924.00	26.17	31.89	5.46	23.96	39.56	54.00	-14.44	Horizontal			
7386.00	21.04	36.49	6.93	26.79	37.67	54.00	-16.33	Horizontal			
9848.00	22.14	38.24	9.05	25.30	44.13	54.00	-9.87	Horizontal			
12310.00	18.66	38.83	10.41	24.90	43.00	54.00	-11.00	Horizontal			
14772.00	---					54.00		Horizontal			
17234.00	---					54.00		Horizontal			

Remark

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Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	38.83	31.79	5.34	24.07	51.89	74.00	-22.11	Vertical			
7236.00	34.62	36.19	6.88	26.44	51.25	74.00	-22.75	Vertical			
9648.00	31.26	38.07	8.96	25.36	52.93	74.00	-21.07	Vertical			
12060.00	30.05	39.05	10.35	25.15	54.30	74.00	-19.70	Vertical			
14472.00	---					74.00		Vertical			
16884.00	---					74.00		Vertical			
4824.00	39.24	31.79	5.34	24.07	52.30	74.00	-21.70	Horizontal			
7236.00	33.98	36.19	6.88	26.44	50.61	74.00	-23.39	Horizontal			
9648.00	32.36	38.07	8.96	25.36	54.03	74.00	-19.97	Horizontal			
12060.00	30.89	39.05	10.35	25.15	55.14	74.00	-18.86	Horizontal			
14472.00	---					74.00		Horizontal			
16884.00	---					74.00		Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	25.53	31.79	5.34	24.07	38.59	54.00	-15.41	Vertical			
7236.00	21.89	36.19	6.88	26.44	38.52	54.00	-15.48	Vertical			
9648.00	17.58	38.07	8.96	25.36	39.25	54.00	-14.75	Vertical			
12060.00	16.62	39.05	10.35	25.15	40.87	54.00	-13.13	Vertical			
14472.00	---					54.00		Vertical			
16884.00	---					54.00		Vertical			
4824.00	27.14	31.79	5.34	24.07	40.20	54.00	-13.80	Horizontal			
7236.00	23.35	36.19	6.88	26.44	39.98	54.00	-14.02	Horizontal			
9648.00	18.89	38.07	8.96	25.36	40.56	54.00	-13.44	Horizontal			
12060.00	17.78	39.05	10.35	25.15	42.03	54.00	-11.97	Horizontal			
14472.00	---					54.00		Horizontal			
16884.00	---					54.00		Horizontal			

Test mode:		802.11g		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	37.74	31.85	5.40	24.01	50.98	74.00	-23.02	Vertical			
7311.00	31.75	36.37	6.90	26.58	48.44	74.00	-25.56	Vertical			
9688.00	28.19	38.13	8.98	25.34	49.96	74.00	-24.04	Vertical			
12185.00	29.33	38.92	10.38	25.04	53.59	74.00	-20.41	Vertical			
14472.00	---					74.00		Vertical			
16884.00	---					74.00		Vertical			
4874.00	39.87	31.85	5.40	24.01	53.11	74.00	-20.89	Horizontal			
7311.00	33.08	36.37	6.90	26.58	49.77	74.00	-24.23	Horizontal			
9688.00	28.33	38.13	8.98	25.34	50.10	74.00	-23.90	Horizontal			
12185.00	29.28	38.92	10.38	25.04	53.54	74.00	-20.46	Horizontal			
14472.00	---					74.00		Horizontal			
16884.00	---					74.00		Horizontal			

Remark

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Test mode:		802.11g		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	24.05	31.85	5.40	24.01	37.29	54.00	-16.71	Vertical			
7311.00	21.46	36.37	6.90	26.58	38.15	54.00	-15.85	Vertical			
9688.00	17.01	38.13	8.98	25.34	38.78	54.00	-15.22	Vertical			
12185.00	16.08	38.92	10.38	25.04	40.34	54.00	-13.66	Vertical			
14472.00	---					54.00		Vertical			
16884.00	---					54.00		Vertical			
4874.00	26.09	31.85	5.40	24.01	39.33	54.00	-14.67	Horizontal			
7311.00	23.34	36.37	6.90	26.58	40.03	54.00	-13.97	Horizontal			
9688.00	18.73	38.13	8.98	25.34	40.50	54.00	-13.50	Horizontal			
12185.00	17.64	38.92	10.38	25.04	41.90	54.00	-12.10	Horizontal			
14472.00	---					54.00		Horizontal			
16884.00	---					54.00		Horizontal			

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	38.32	31.89	5.46	23.96	51.71	74.00	-22.29	Vertical			
7386.00	34.77	36.49	6.93	26.79	51.40	74.00	-22.60	Vertical			
9848.00	32.24	38.24	9.05	25.30	54.23	74.00	-19.77	Vertical			
12310.00	29.77	38.83	10.41	24.90	54.11	74.00	-19.89	Vertical			
14772.00	---					74.00		Vertical			
17234.00	---					74.00		Vertical			
4924.00	41.04	31.89	5.46	23.96	54.43	74.00	-19.57	Horizontal			
7386.00	34.95	36.49	6.93	26.79	51.58	74.00	-22.42	Horizontal			
9848.00	32.14	38.24	9.05	25.30	54.13	74.00	-19.87	Horizontal			
12310.00	29.41	38.83	10.41	24.90	53.75	74.00	-20.25	Horizontal			
14772.00	---					74.00		Horizontal			
17234.00	---					74.00		Horizontal			

Test mode:		802.11g		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	23.42	31.89	5.46	23.96	36.81	54.00	-17.19	Vertical			
7386.00	22.08	36.49	6.93	26.79	38.71	54.00	-15.29	Vertical			
9848.00	18.84	38.24	9.05	25.30	40.83	54.00	-13.17	Vertical			
12310.00	17.60	38.83	10.41	24.90	41.94	54.00	-12.06	Vertical			
14772.00	---					54.00		Vertical			
17234.00	---					54.00		Vertical			
4924.00	25.38	31.89	5.46	23.96	38.77	54.00	-15.23	Horizontal			
7386.00	23.87	36.49	6.93	26.79	40.50	54.00	-13.50	Horizontal			
9848.00	20.46	38.24	9.05	25.30	42.45	54.00	-11.55	Horizontal			
12310.00	19.05	38.83	10.41	24.90	43.39	54.00	-10.61	Horizontal			
14772.00	---					54.00		Horizontal			
17234.00	---					54.00		Horizontal			

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Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	36.60	31.79	5.34	24.07	49.66	74.00	-24.34	Vertical			
7236.00	32.92	36.19	6.88	26.44	49.55	74.00	-24.45	Vertical			
9648.00	31.53	38.07	8.96	25.36	53.20	74.00	-20.80	Vertical			
12060.00	30.29	39.05	10.35	25.15	54.54	74.00	-19.46	Vertical			
14472.00	---					74.00		Vertical			
16884.00	---					74.00		Vertical			
4824.00	38.21	31.79	5.34	24.07	51.27	74.00	-22.73	Horizontal			
7236.00	34.38	36.19	6.88	26.44	51.01	74.00	-22.99	Horizontal			
9648.00	32.84	38.07	8.96	25.36	54.51	74.00	-19.49	Horizontal			
12060.00	31.45	39.05	10.35	25.15	55.70	74.00	-18.30	Horizontal			
14472.00	---					74.00		Horizontal			
16884.00	---					74.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preampl Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4824.00	25.46	31.79	5.34	24.07	38.52	54.00	-15.48	Vertical			
7236.00	24.12	36.19	6.88	26.44	40.75	54.00	-13.25	Vertical			
9648.00	20.07	38.07	8.96	25.36	41.74	54.00	-12.26	Vertical			
12060.00	17.63	39.05	10.35	25.15	41.88	54.00	-12.12	Vertical			
14472.00	---					54.00		Vertical			
16884.00	---					54.00		Vertical			
4824.00	27.07	31.79	5.34	24.07	40.13	54.00	-13.87	Horizontal			
7236.00	25.58	36.19	6.88	26.44	42.21	54.00	-11.79	Horizontal			
9648.00	21.38	38.07	8.96	25.36	43.05	54.00	-10.95	Horizontal			
12060.00	18.79	39.05	10.35	25.15	43.04	54.00	-10.96	Horizontal			
14472.00	---					54.00		Horizontal			
16884.00	---					54.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	36.88	31.85	5.40	24.01	50.12	74.00	-23.88	Vertical			
7311.00	31.36	36.37	6.90	26.58	48.05	74.00	-25.95	Vertical			
9688.00	27.42	38.13	8.98	25.34	49.19	74.00	-24.81	Vertical			
12185.00	27.61	38.92	10.38	25.04	51.87	74.00	-22.13	Vertical			
14472.00	---					74.00		Vertical			
16884.00	---					74.00		Vertical			
4874.00	38.92	31.85	5.40	24.01	52.16	74.00	-21.84	Horizontal			
7311.00	33.24	36.37	6.90	26.58	49.93	74.00	-24.07	Horizontal			
9688.00	29.14	38.13	8.98	25.34	50.91	74.00	-23.09	Horizontal			
12185.00	29.17	38.92	10.38	25.04	53.43	74.00	-20.57	Horizontal			
14472.00	---					74.00		Horizontal			
16884.00	---					74.00		Horizontal			

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Test mode:		802.11n(H20)		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	24.35	31.85	5.40	24.01	37.59	54.00	-16.41	Vertical			
7311.00	23.24	36.37	6.90	26.58	39.93	54.00	-14.07	Vertical			
9688.00	19.27	38.13	8.98	25.34	41.04	54.00	-12.96	Vertical			
12185.00	16.09	38.92	10.38	25.04	40.35	54.00	-13.65	Vertical			
14472.00	---					54.00		Vertical			
16884.00	---					54.00		Vertical			
4874.00	26.39	31.85	5.40	24.01	39.63	54.00	-14.37	Horizontal			
7311.00	25.12	36.37	6.90	26.58	41.81	54.00	-12.19	Horizontal			
9688.00	20.99	38.13	8.98	25.34	42.76	54.00	-11.24	Horizontal			
12185.00	19.15	38.92	10.38	25.04	43.41	54.00	-10.59	Horizontal			
14472.00	---					54.00		Horizontal			
16884.00	---					54.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	36.25	31.89	5.46	23.96	49.64	74.00	-24.36	Vertical			
7386.00	32.97	36.49	6.93	26.79	49.60	74.00	-24.40	Vertical			
9848.00	30.42	38.24	9.05	25.30	52.41	74.00	-21.59	Vertical			
12310.00	28.01	38.83	10.41	24.90	52.35	74.00	-21.65	Vertical			
14772.00	---					74.00		Vertical			
17234.00	---					74.00		Vertical			
4924.00	38.41	31.89	5.46	23.96	51.80	74.00	-22.20	Horizontal			
7386.00	34.86	36.49	6.93	26.79	51.49	74.00	-22.51	Horizontal			
9848.00	32.14	38.24	9.05	25.30	54.13	74.00	-19.87	Horizontal			
12310.00	29.56	38.83	10.41	24.90	53.90	74.00	-20.10	Horizontal			
14772.00	---					74.00		Horizontal			
17234.00	---					74.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	24.39	31.89	5.46	23.96	37.78	54.00	-16.22	Vertical			
7386.00	22.09	36.49	6.93	26.79	38.72	54.00	-15.28	Vertical			
9848.00	19.16	38.24	9.05	25.30	41.15	54.00	-12.85	Vertical			
12310.00	18.24	38.83	10.41	24.90	42.58	54.00	-11.42	Vertical			
14772.00	---					54.00		Vertical			
17234.00	---					54.00		Vertical			
4924.00	26.45	31.89	5.46	23.96	39.84	54.00	-14.16	Horizontal			
7386.00	23.98	36.49	6.93	26.79	40.61	54.00	-13.39	Horizontal			
9848.00	20.88	38.24	9.05	25.30	42.87	54.00	-11.13	Horizontal			
12310.00	19.79	38.83	10.41	24.90	44.13	54.00	-9.87	Horizontal			
14772.00	---					54.00		Horizontal			
17234.00	---					54.00		Horizontal			

Remark

"---" means that the emission level is too low to be measured

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