FCC Report

WIFI

Product Description: Smart Phone Projector

Trade Mark: Akyumen

Model No.: Hawk01, Hawk02, Hawk03, Hawk04, Hawk05, Hawk06, Hawk07,

Hawk08, Hawk09, Hawk10, Hawk11, Hawk12, Hawk13, Hawk14, Hawk15, Hawk16, Hawk17, Hawk18, Hawk19,

FCC ID: 2ADLD-HAWK01

Applicant: Akyumen Technologies Corp.

Address: 7401 Wiles Road, Suite 123 Coral Spring, FL 33067 USA

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013

Test Date: 24 November ~ 08 December, 2014

Issued Date: 08 December, 2014

Test Result: Complied

James Wu **Laboratory Manager**

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The test result in this test report relate only to the tested samples in this report.

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2 Version

Version No.	Date	Description
00	08 December, 2014	Original

Prepared By:	Jourg	Date:	08 December, 2014	
	Young Li Project Engineer			
Check By:	Dixon	Date:	08 December, 2014	
	Dixon Hao Reviewer	_		_



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	7.1 Conducted Emission Method	
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4 Test Summary

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

Complied: The EUT has complied with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Akyumen Technologies Corp.
Address:	7401 Wiles Road, Suite 123 Coral Spring, FL 33067 USA
Manufacturer:	Akyumen Technologies Corp.
Address:	7401 Wiles Road, Suite 123 Coral Spring, FL 33067 USA

Report No.: TMC141202903

5.2 General Description of EUT

Product Name:	Smart Phone Projector	
Brand Mark:	Akyumen	
Model No.:	Hawk01, Hawk02, Hawk03, Hawk04, Hawk05, Hawk06, Hawk07, Hawk08, Hawk09, Hawk10, Hawk11, Hawk12, Hawk13, Hawk14, Hawk15, Hawk16, Hawk17, Hawk18, Hawk19,	
Test model No.:	Hawk01	
Software version:	V1.0	
Hardware version:	V1.0	
WIFI		
Support Protocol:	802.11b/g/n(H20)/n(H40)	
Operation Frequency:	802.11b/g/n(H20): 2412MHz~2462MHz	
	802.11n(H40): 2422MHz~2452MHz	
Channel numbers:	802.11b/g/n(H20): 11	
	802.11n(H40): 7	
Channel separation:	5MHz	
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)	
	802.11g/n(H20)/n(H40):	
	Orthogonal Frequency Division Multiplexing(OFDM)	
Antenna Type:	Integral Antenna	
Antenna Gain:	0dBi	
AC Adapter:	Model: JHD-AP012C-050150AB	
	Input: AC 100~240V 50/60Hz 0.35A	
	Output: DC 5.0V 1.5A	
Power supply:	lithium-ion charge battery 3.7V	

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

Note:

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

Took ob opposi	Frequency (MHz)		
Test channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)	
Lowest channel	2412MHz	2422MHz	
Middle channel	2437MHz	2437MHz	
Highest channel	2462MHz	2452MHz	

5.3 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

Remark:

- 1. During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.
- 2. 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:
 - 802.11b: 1Mbps; 802.11g: 6Mbps; 802.11n(H20): 6.5Mbps; 802.11n(H40): 13Mbps

5.4 Test Facility

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

■ CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. to ISO/IEC 17025 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.

■ 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) —Registration No.: 9079A-1

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

Inspection & Certification Services Report No.: TMC141202903

6 Test Instruments list

Instrument	Manufacturer	Model No.	Inventory No.	Next Cal. Date
3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2015
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015
Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015
Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015
EMI Test Software	AUDIX	E3	N/A	N/A
Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015
Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015
Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015
Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015
Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015
Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015
Pre-amplifier	Rohde & Schwarz	AFS33-18002	GTS218	June 26 2015
(18-26GHz)	Ronde & Schwarz	650-30-8P-44	G15216	June 26 2015
Band filter	Amindeon	82346	GTS219	Mar. 28 2015
Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 09 2015
Signal Generator	Rohde & Schwarz	SML03	GTS236	May 09 2015
Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 09 2015
D.C. Power Supply	Instek	PS-3030	GTS232	NA
Splitter	Agilent	11636B	GTS237	May 09 2015
Power meter	Rohde & Schwarz	OSP-B157	GTS266	Nov 09 2015

Conducted Emission				
Instrument	Manufacturer	Model No.	Inventory No.	Next Cal. Date
Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 06 2015
EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015
10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015
Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015
LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015
Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015
EMI Test Software	AUDIX	E3	N/A	N/A
Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 06 2015
EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015

7 Measurement Data and Test Results

7.1 Antenna requirement

Standard requirement

According to Standard: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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

15.247(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.

EUT Antenna:

The antenna is unique integral antenna, the typical gain of the antenna is 0dBi.



7.2 Conducted Emissions

Standard requirement

FCC Part15 C Section 15,207

Test method

ANSI C63.4:2003

Receiver set

RBW=9KHz, VBW=30KHz, Sweep time=auto

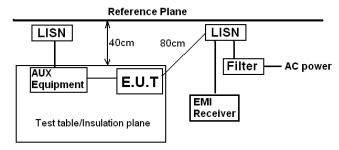
Limit

Fraguency range (MHz)	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

Test mode

Refer to section 5.3 for details

Test setup



Remark E.U.T. Equipment Under Test LISM: Line Impedence Stabilization Network Test table height=0.8m

Test mode

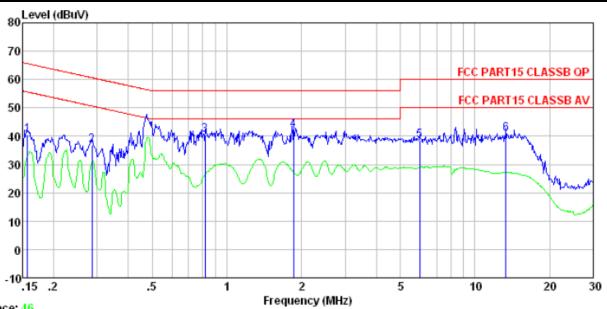
- 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
- 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
- 3. 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 Result

Complied



Test mode:	WIFI mode	Temperature:	24~26℃
Phase Polarity:	Line	Relative Humidity:	50~53%

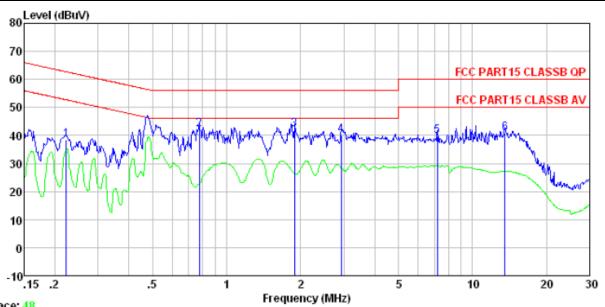


Condition: FCC PART15 CLASSB QP LISN-2013 LINE Test mode: WiFi mode

	Freq		LISN Factor			Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0.817 1.858	40.31 41.73 38.09	0.11 0.14	0.13 0.14 0.16	36. 90 40. 58 41. 99 38. 47	60.63 56.00 56.00 60.00	-23.73 -15.42 -14.01 -21.53	QP QP QP QP



Test mode:	WIFI mode	Temperature:	24~26℃
Phase Polarity:	Nertral	Relative Humidity:	50~53%



Condition: FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test mode: WiFi mode

	Freq		LISN Factor			Limit Line	Over Limit	Remark
-	MHz	dBu₹	dB	dB	dBuV	-dBuV	dB	
1 2 3 4 5		38. 19 41. 94 42. 00 39. 99 39. 46 40. 15	0.06 0.07 0.09 0.11 0.18 0.33	0.13 0.14 0.15 0.17		56.00 56.00 56.00 60.00	-13.86 -13.77 -15.75 -20.19	QP QP QP QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss



7.3 Conducted Peak Output Power

Standard requirement

FCC Part15 C Section 15.247 (b)(3)

Test method

ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03

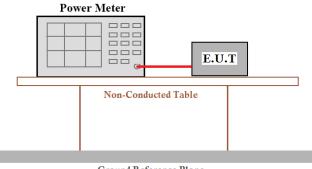
Limit

30dBm

Test mode

Refer to section 5.3 for details

Test setup



Ground Reference Plane

Test Result

Complied

Measurement Data

Test CH		Peak Outp	ut Power (dBm)		Limit(dBm)	Result
rest off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillit(ubili)	Kesuit
Lowest	13.42	12.54	12.61	11.41		
Middle	14.08	12.65	12.73	10.90	30.00	Pass
Highest	14.24	12.80	12.79	11.71		



7.4 Channel Bandwidth

Standard requirement

FCC Part15 C Section 15.247 (a)(2)

Test method

ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03

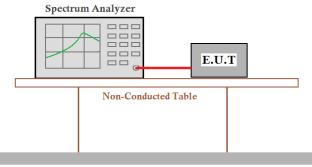
Limit

>500KHz

Test mode

Refer to section 5.3 for details

Test setup



Ground Reference Plane

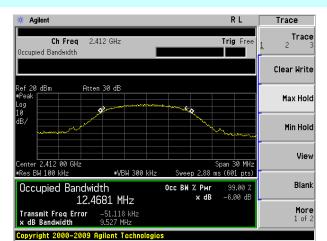
Test Result

Complied

Measurement Data

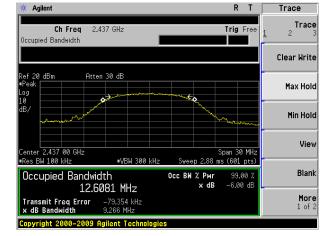
Test CH		Channel B	andwidth (MHz)		Limit(KHz)	Result
rest on	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillin(Ki12)	Nesuit
Lowest	9.527	15.058	15.168	35.308		
Middle	9.266	15.176	16.087	35.575	>500	Pass
Highest	9.484	15.166	15.173	35.368		

Mode 802.11b

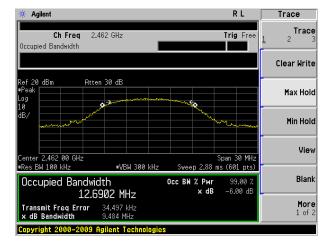


Report No.: TMC141202903

Lowest channel:

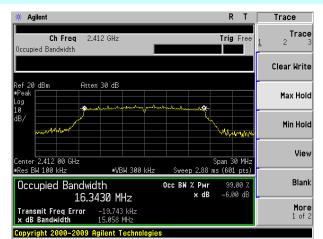


Middle channel:

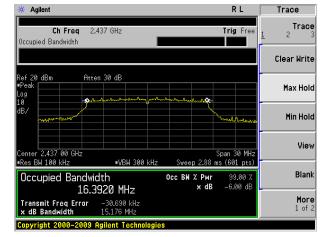




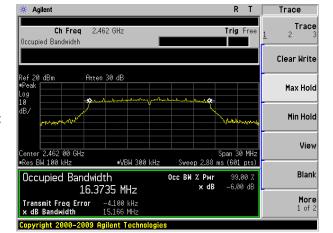
Mode 802.11g



Lowest channel:

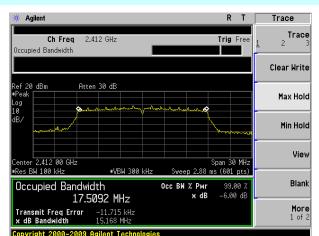


Middle channel:

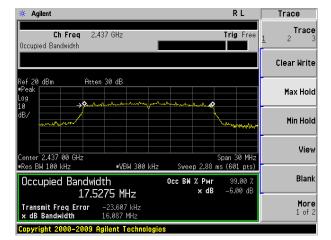




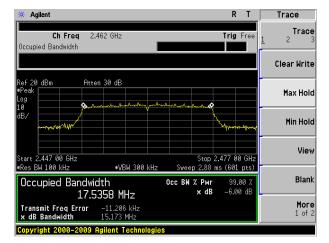
Mode 802.11n(H20)



Lowest channel:

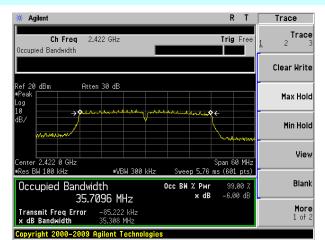


Middle channel:

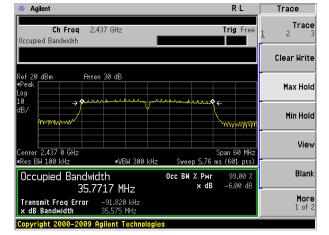




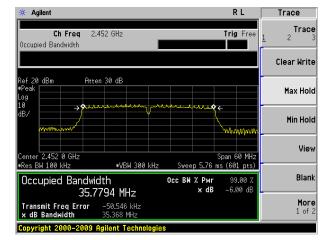
Mode 802.11n(H40)



Lowest channel:



Middle channel:





7.5 Power Spectral Density

Standard requirement

FCC Part15 C Section 15.247 (e)

Test method

ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03

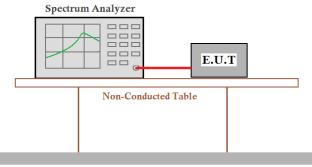
Limit

8dBm

Test mode

Refer to section 5.3 for details

Test setup



Ground Reference Plane

Test Result

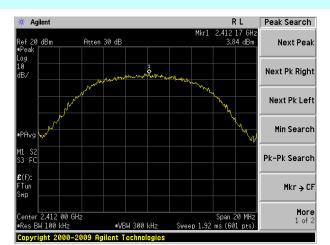
Complied

Measurement Data

Test CH		Power Spec	tral Density (dBm)		Limit(dBm/3kHz)	Result	
Test off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Ellint(dBill/3kH2)	Nesult	
Lowest	3.84	-1.78	-2.10	-7.66			
Middle	2.33	-1.69	-1.84	-6.29	8.00	Pass	
Highest	3.43	-2.01	-2.15	-8.13			

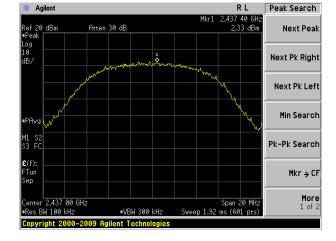
Lowest channel:

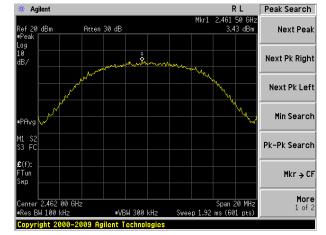
Mode 802.11b



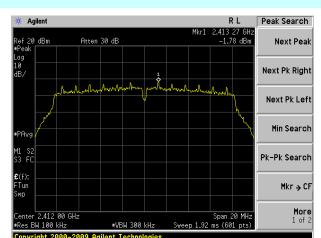
Report No.: TMC141202903

Middle channel:



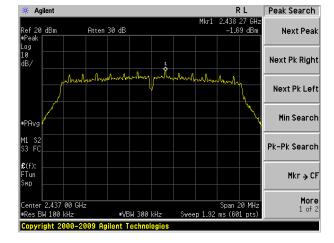


Mode 802.11g

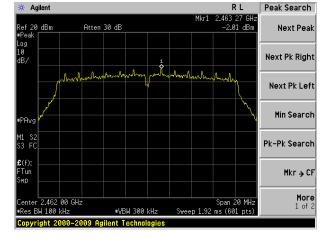


Report No.: TMC141202903

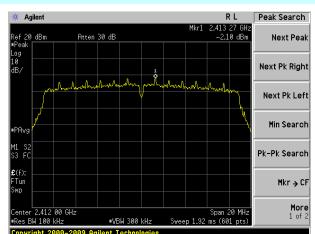
Lowest channel:



Middle channel:

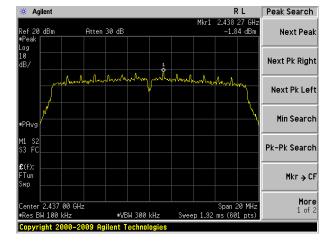


Mode 802.11n(H20)

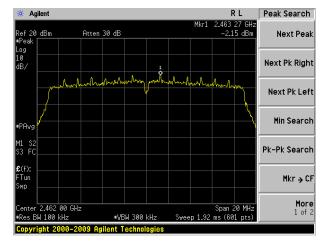


Report No.: TMC141202903

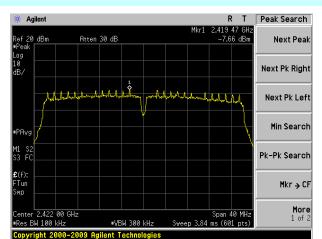
Lowest channel:



Middle channel:

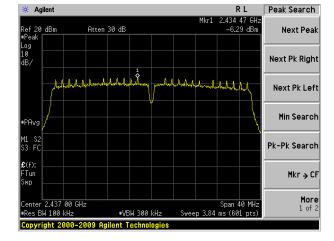


Mode 802.11n(H40)

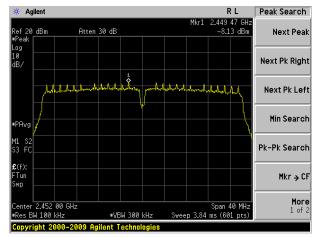


Report No.: TMC141202903

Lowest channel:



Middle channel:



7.6 Band Edge

7.6.1 Conducted Emission Method

Test method

FCC Part15 C Section 15.247 (d)

Test method

ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03

Receiver set

RBW=100kHz, VBW=300kHz, Detector=Peak

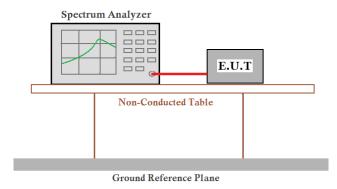
Limit

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 mode

Refer to section 5.3 for details

Test setup



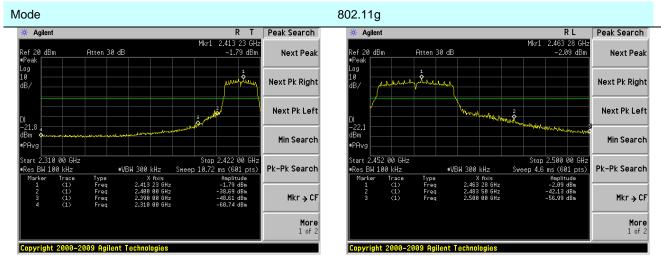
Test Result

Complied





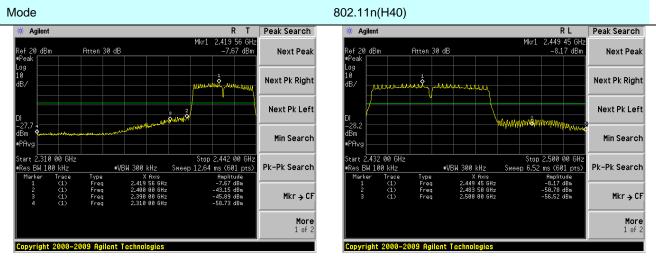
Lowest channel Highest channel



Lowest channel Highest channel

Mode 802.11n(H20) RL Peak Search * Agilent RL Peak Search Agilent Atten 30 dB Atten 30 dB ef 20 dBm Next Peak Next Peak Next Pk Right Next Pk Right Next Pk Left Next Pk Left Min Search Min Search Start 2.310 00 GHz Res BW 100 kHz Start 2.452 00 GHz •Res BW 100 kHz Stop 2.422 00 GHz Sweep 10.72 ms (601 pts) Stop 2.500 00 GHz Sweep 4.6 ms (601 pts) Pk-Pk Search Pk-Pk Search Mkr → CF Mkr → CF More 1 of 2 More 1 of 2 Copyright 2000-2009 Agilent Technologies Copyright 2000-2009 Agilent Technologies

Lowest channel Highest channel



Lowest channel Highest channel



7.6.2 Radiated Emission Method

Test method

FCC Part15 C Section 15.209 and 15.205

Test method

ANSI C63.4:2003

Receiver set

Frequency	Detector	RBW	VBW	Remark
A h a 4 O L l –	Peak	1MHz	3MHz	Peak Value
Above 1GHz	Peak	1MHz	10Hz	Average Value

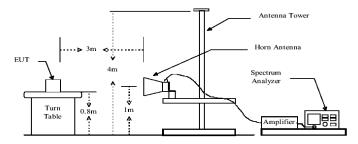
👺 Limit

Frequency	Limit (dBuV/m @3m)	Remark
Ab 4011-	54.00	Average Value
Above 1GHz	74.00	Peak Value

Test mode

Refer to section 5.3 for details

Test setup



Test Procedure

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. 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.
- 4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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.

Test Result

Complied

Remark:

During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case, so only show the test data of worse case modulation on the test report.

802.11b

Test mode:

Report No.: TMC141202903

Lowest

i est mode:		802.110		l est d	cnannei:	LC	owest	
Peak value:								
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
2310.00	52.37	27.59	5.38	34.01	51.33	74.00	-22.67	Vertical
2390.00	61.63	27.58	5.39	34.01	60.59	74.00	-13.41	Vertical
2310.00	54.11	27.59	5.38	34.01	53.07	74.00	-20.93	Horizontal
2390.00	63.62	27.58	5.39	34.01	62.58	74.00	-11.42	Horizontal
Average val	ue:							
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
2310.00	38.93	27.59	5.38	34.01	37.89	54.00	-16.11	Vertical
2390.00	47.30	27.58	5.39	34.01	46.26	54.00	-7.74	Vertical
2310.00	40.80	27.59	5.38	34.01	39.76	54.00	-14.24	Horizontal
2390.00	48.48	27.58	5.39	34.01	47.44	54.00	-6.56	Horizontal
Test mode:		802.11b		Test	channel:	Hi	ghest	
Peak value:								
Frequency (MHz)	Read Level	Antenna Factor	Cable	Preamp Factor	Level	Limit Line	Over Limit	
	(dBuV)	(dB/m)	Loss (dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization
2483.50	(dBuV) 53.34		Loss (dB) 5.47			(dBuV/m) 74.00	(dB) -21.58	Polarization Vertical
2483.50 2500.00	, ,	(dB/m)		(dB)	(dBuV/m)		` ,	
	53.34	(dB/m) 27.53	5.47	(dB) 33.92	(dBuV/m) 52.42	74.00	-21.58	Vertical
2500.00	53.34 48.94	(dB/m) 27.53 27.55	5.47 5.49	(dB) 33.92 29.93	(dBuV/m) 52.42 52.05	74.00 74.00	-21.58 -21.95	Vertical Vertical
2500.00 2483.50	53.34 48.94 55.75 51.58	(dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	(dB) 33.92 29.93 33.92	(dBuV/m) 52.42 52.05 54.83	74.00 74.00 74.00	-21.58 -21.95 -19.17	Vertical Vertical Horizontal
2500.00 2483.50 2500.00	53.34 48.94 55.75 51.58	(dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	(dB) 33.92 29.93 33.92	(dBuV/m) 52.42 52.05 54.83	74.00 74.00 74.00	-21.58 -21.95 -19.17	Vertical Vertical Horizontal
2500.00 2483.50 2500.00 Average val	53.34 48.94 55.75 51.58 ue:	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	5.47 5.49 5.47 5.49	(dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 52.42 52.05 54.83 54.69 Level	74.00 74.00 74.00 74.00 Limit Line	-21.58 -21.95 -19.17 -19.31 Over Limit	Vertical Vertical Horizontal Horizontal
2500.00 2483.50 2500.00 Average val Frequency (MHz)	53.34 48.94 55.75 51.58 ue: Read Level (dBuV)	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 5.47 5.49 Cable Loss (dB)	(dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 52.42 52.05 54.83 54.69 Level (dBuV/m)	74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	-21.58 -21.95 -19.17 -19.31 Over Limit (dB)	Vertical Vertical Horizontal Horizontal Polarization
2500.00 2483.50 2500.00 Average val Frequency (MHz) 2483.50	53.34 48.94 55.75 51.58 ue: Read Level (dBuV) 39.40	(dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	(dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 52.42 52.05 54.83 54.69 Level (dBuV/m) 38.48	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-21.58 -21.95 -19.17 -19.31 Over Limit (dB) -15.52	Vertical Vertical Horizontal Horizontal Polarization Vertical

Test channel:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11g		Test	channel:	Lo	west	
Peak value:		-		•		•		
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
2310.00	50.50	27.59	5.38	34.01	49.46	74.00	-24.54	Vertical
2390.00	59.13	27.58	5.39	34.01	58.09	74.00	-15.91	Vertical
2310.00	52.10	27.59	5.38	34.01	51.06	74.00	-22.94	Horizontal
2390.00	60.62	27.58	5.39	34.01	59.58	74.00	-14.42	Horizontal
Average valu	ie:							
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
2310.00	37.59	27.59	5.38	34.01	36.55	54.00	-17.45	Vertical
2390.00	45.76	27.58	5.39	34.01	44.72	54.00	-9.28	Vertical
2310.00	39.32	27.59	5.38	34.01	38.28	54.00	-15.72	Horizontal
2390.00	46.80	27.58	5.39	34.01	45.76	54.00	-8.24	Horizontal
	-	T.	•		-		-	
Test mode:		802.11g		Test	channel:	Hi	ghest	
							9	
Peak value:	1	•	1					
Peak value: 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
Frequency		Factor		Factor		Limit Line	Over Limit	Polarization Vertical
Frequency (MHz)	(dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
Frequency (MHz) 2483.50	(dBuV) 50.67	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 49.75	Limit Line (dBuV/m) 74.00	Over Limit (dB) -24.25	Vertical
Frequency (MHz) 2483.50 2500.00	(dBuV) 50.67 46.86	Factor (dB/m) 27.53 27.55	5.47 5.49	Factor (dB) 33.92 29.93	(dBuV/m) 49.75 49.97	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -24.25 -24.03	Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50	(dBuV) 50.67 46.86 52.69 49.16	Factor (dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 49.75 49.97 51.77	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -24.25 -24.03 -22.23	Vertical Vertical Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	(dBuV) 50.67 46.86 52.69 49.16	Factor (dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 49.75 49.97 51.77	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -24.25 -24.03 -22.23	Vertical Vertical Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average value Frequency	(dBuV) 50.67 46.86 52.69 49.16 Je: Read Level	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	5.47 5.49 5.47 5.49 Cable	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 49.75 49.97 51.77 52.27	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 T4.00 Limit Line	Over Limit (dB) -24.25 -24.03 -22.23 -21.73 Over Limit	Vertical Vertical Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average valu Frequency (MHz)	(dBuV) 50.67 46.86 52.69 49.16 Je: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 5.47 5.49 Cable Loss (dB)	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 49.75 49.97 51.77 52.27 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -24.25 -24.03 -22.23 -21.73 Over Limit (dB)	Vertical Vertical Horizontal Horizontal Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average valu Frequency (MHz) 2483.50	(dBuV) 50.67 46.86 52.69 49.16 Je: Read Level (dBuV) 37.79	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 49.75 49.97 51.77 52.27 Level (dBuV/m) 36.87	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contact Line (dBuV/m) 54.00	Over Limit (dB) -24.25 -24.03 -22.23 -21.73 Over Limit (dB) -17.13	Vertical Vertical Horizontal Horizontal Polarization Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average valu Frequency (MHz) 2483.50 2500.00	(dBuV) 50.67 46.86 52.69 49.16 Je: Read Level (dBuV) 37.79 34.11	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92 29.93	(dBuV/m) 49.75 49.97 51.77 52.27 Level (dBuV/m) 36.87 37.22	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contact Line (dBuV/m) 54.00 54.00	Over Limit (dB) -24.25 -24.03 -22.23 -21.73 Over Limit (dB) -17.13 -16.78	Vertical Vertical Horizontal Horizontal Polarization Vertical Vertical

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Report No.: TMC141202903

Test mode:		802.11n (l	H20)	Test	channel:	Lo	west	
Peak value:		•		•		•		
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
2310.00	51.02	27.59	5.38	34.01	49.98	74.00	-24.02	Vertical
2390.00	59.82	27.58	5.39	34.01	58.78	74.00	-15.22	Vertical
2310.00	52.66	27.59	5.38	34.01	51.62	74.00	-22.38	Horizontal
2390.00	61.45	27.58	5.39	34.01	60.41	74.00	-13.59	Horizontal
Average valu	ue:							
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
2310.00	37.96	27.59	5.38	34.01	36.92	54.00	-17.08	Vertical
2390.00	46.19	27.58	5.39	34.01	45.15	54.00	-8.85	Vertical
2310.00	39.73	27.59	5.38	34.01	38.69	54.00	-15.31	Horizontal
2390.00	47.27	27.58	5.39	34.01	46.23	54.00	-7.77	Horizontal
Test mode:		802.11n(H	l20)	Test	channel:	Lo	owest	
Peak value:								
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	51.41	27.53	5.47	33.92	50.49	74.00	-23.51	Vertical
2500.00	47.44	27.55	5.49	29.93	50.55	74.00	-23.45	Vertical
2483.50	53.54	27.53	5.47	33.92	52.62	74.00	-21.38	Horizontal
2500.00	49.83	27.55	5.49	29.93	52.94	74.00	-21.06	Horizontal
2500.00 Average valu		27.55	5.49	29.93	52.94	74.00	-21.06	Horizontal
		27.55 Antenna Factor (dB/m)	Cable Loss (dB)	29.93 Preamp Factor (dB)	52.94 Level (dBuV/m)	74.00 Limit Line (dBuV/m)	-21.06 Over Limit (dB)	Horizontal Polarization
Average valuers	ue: Read Level	Antenna Factor	Cable	Preamp Factor	Level	Limit Line	Over Limit	
Average value Frequency (MHz)	Read Level	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Frequency (MHz) 2483.50	Read Level (dBuV)	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 37.31	Limit Line (dBuV/m) 54.00	Over Limit (dB) -16.69	Polarization Vertical

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:

802.11n (H40)

Report No.: TMC141202903

Lowest

Peak value:								
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
2310.00	49.75	27.59	5.38	34.01	48.71	74.00	-25.29	Vertical
2390.00	58.12	27.58	5.39	34.01	57.08	74.00	-16.92	Vertical
2310.00	51.30	27.59	5.38	34.01	50.26	74.00	-23.74	Horizontal
2390.00	59.41	27.58	5.39	34.01	58.37	74.00	-15.63	Horizontal
Average value	ue:						1	
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
2310.00	37.06	27.59	5.38	34.01	36.02	54.00	-17.98	Vertical
2390.00	45.14	27.58	5.39	34.01	44.10	54.00	-9.90	Vertical
2310.00	38.72	27.59	5.38	34.01	37.68	54.00	-16.32	Horizontal
2390.00	46.12	27.58	5.39	34.01	45.08	54.00	-8.92	Horizontal
			-		-		-	
Test mode:		802.11n(H	140)	Test	channel:	Lo	owest	
Peak value:								
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
Frequency		Factor		Factor				Polarization Vertical
Frequency (MHz)	(dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization Vertical Vertical
Frequency (MHz) 2483.50	(dBuV) 49.59	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 48.67	(dBuV/m) 74.00	(dB) -25.33	Vertical
Frequency (MHz) 2483.50 2500.00	(dBuV) 49.59 46.02	Factor (dB/m) 27.53 27.55	5.47 5.49	Factor (dB) 33.92 29.93	(dBuV/m) 48.67 49.13	(dBuV/m) 74.00 74.00	(dB) -25.33 -24.87	Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	(dBuV) 49.59 46.02 51.46 48.18	Factor (dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 48.67 49.13 50.54	(dBuV/m) 74.00 74.00 74.00	(dB) -25.33 -24.87 -23.46	Vertical Vertical Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	(dBuV) 49.59 46.02 51.46 48.18	Factor (dB/m) 27.53 27.55 27.53	5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 48.67 49.13 50.54	(dBuV/m) 74.00 74.00 74.00	(dB) -25.33 -24.87 -23.46	Vertical Vertical Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average value	(dBuV) 49.59 46.02 51.46 48.18 ue: Read Level	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	5.47 5.49 5.47 5.49 Cable	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 48.67 49.13 50.54 51.29 Level	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	(dB) -25.33 -24.87 -23.46 -22.71 Over Limit	Vertical Vertical Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average value (MHz)	(dBuV) 49.59 46.02 51.46 48.18 ue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 5.47 5.49 Cable Loss (dB)	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 48.67 49.13 50.54 51.29 Level (dBuV/m)	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	(dB) -25.33 -24.87 -23.46 -22.71 Over Limit (dB)	Vertical Vertical Horizontal Horizontal Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average value Frequency (MHz) 2483.50	(dBuV) 49.59 46.02 51.46 48.18 ue: Read Level (dBuV) 37.13	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 48.67 49.13 50.54 51.29 Level (dBuV/m) 36.21	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	(dB) -25.33 -24.87 -23.46 -22.71 Over Limit (dB) -17.79	Vertical Vertical Horizontal Horizontal Polarization Vertical

Test channel:

Page: 30 of 49

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.

7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test method

FCC Part15 C Section 15.247 (d)

Test method

ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03

Receiver set

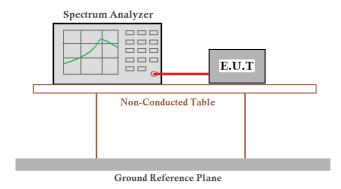
RBW=100kHz, VBW=300kHz, Detector=Peak

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 mode

Refer to section 5.3 for details

Test setup



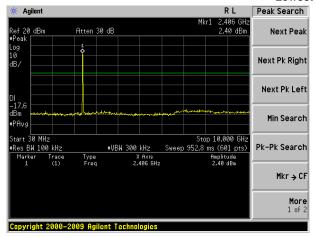
Test Result

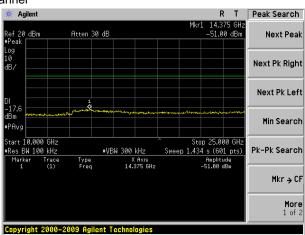
Complied



Test mode: 802.11b



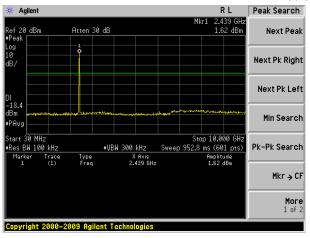


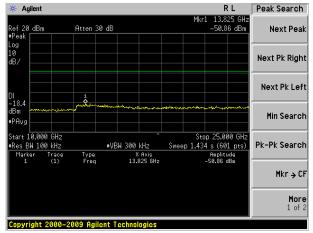


30MHz~10GHz

10GHz~25GHz

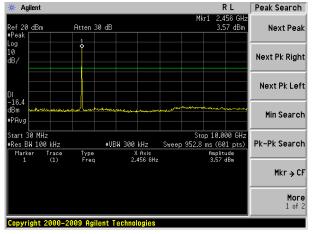
Middle channel

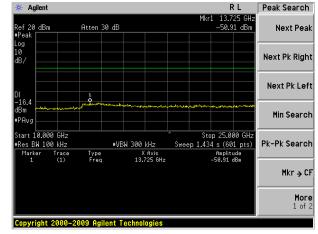




30MHz~10GHz

10GHz~25GHz





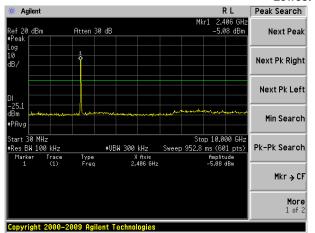
30MHz~10GHz

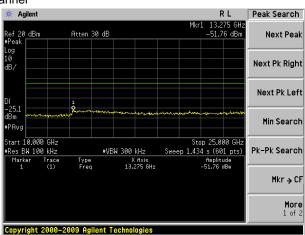
10GHz~25GHz



Test mode: 802.11g

Lowest channel

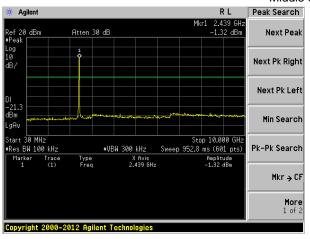


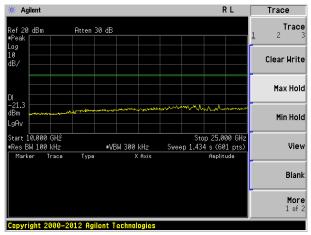


30MHz~10GHz

10GHz~25GHz

Middle channel

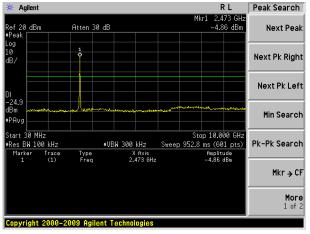


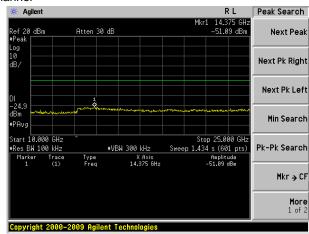


30MHz~10GHz

10GHz~25GHz

Highest channel





30MHz~10GHz

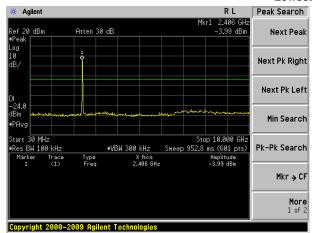
10GHz~25GHz

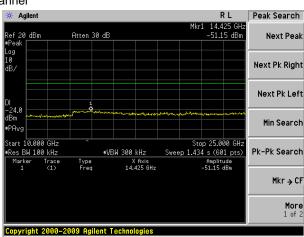


Test mode:

802.11n(H20)

Lowest channel

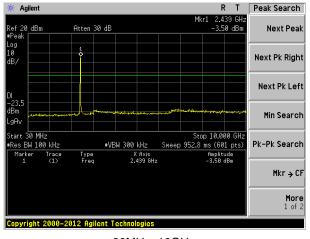


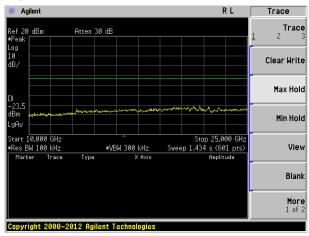


30MHz~10GHz

10GHz~25GHz

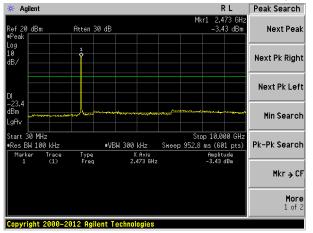
Middle channel

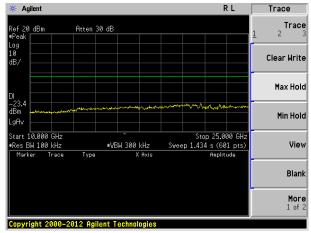




30MHz~10GHz

10GHz~25GHz





30MHz~10GHz

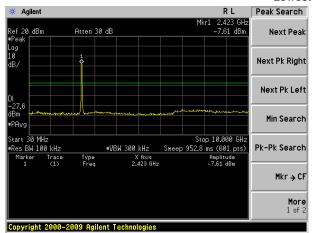
10GHz~25GHz

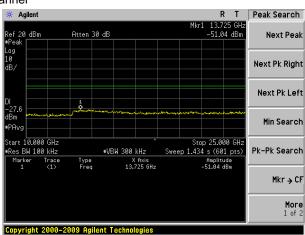


Test mode:

802.11n(H40)

Lowest channel

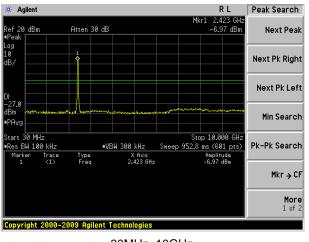


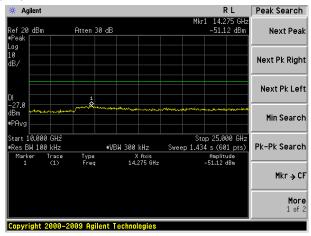


30MHz~10GHz

10GHz~25GHz

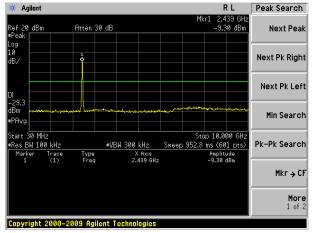
Middle channel

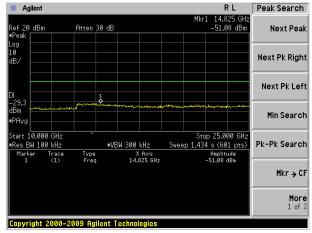




30MHz~10GHz

10GHz~25GHz





30MHz~10GHz

10GHz~25GHz

7.7.2 Radiated Emission Method

Test method

FCC Part15 C Section 15.209 and 15.205

Test method

ANSI C63.4:2003

Receiver set

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Ab 21/2 401 l=	Peak	1MHz	3MHz	Peak Value
Above 1GHz	Peak	1MHz	10Hz	Average Value

Limit

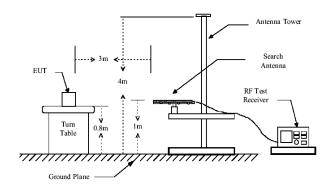
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
Above IGHZ	74.00	Peak Value

Test mode

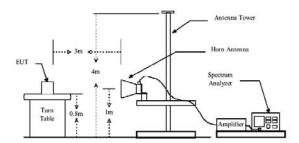
Refer to section 5.3 for details

Test setup

Below 1GHz



Above 1GHz



Test Procedure

- 6. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 7. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 8. 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.
- 9. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 11. 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.

Test Result

Complied

Remark:

During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case, so only show the test data of worse case modulation on the test report.

Measurement data:

■ Below 1GHz

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
31.18	43.52	14.32	0.56	32.06	26.34	40.00	-13.66	Vertical
59.86	45.98	14.71	0.86	31.94	29.61	40.00	-10.39	Vertical
96.10	43.28	14.90	1.16	31.75	27.59	43.50	-15.91	Vertical
191.75	43.03	12.56	1.80	32.12	25.27	43.50	-18.23	Vertical
552.88	43.17	19.62	3.53	31.28	35.04	46.00	-10.96	Vertical
601.43	41.96	20.46	3.73	31.04	35.11	46.00	-10.89	Vertical
59.86	43.08	14.71	0.86	31.94	26.71	40.00	-13.29	Horizontal
96.10	44.23	14.90	1.16	31.75	28.54	43.50	-14.96	Horizontal
191.75	50.92	12.56	1.80	32.12	33.16	43.50	-10.34	Horizontal
312.18	43.10	15.22	2.42	32.14	28.60	46.00	-17.40	Horizontal
504.71	42.54	18.68	3.33	31.53	33.02	46.00	-12.98	Horizontal
552.88	43.00	19.62	3.53	31.28	34.87	46.00	-11.13	Horizontal

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Above 1GHz

Mode: 802.11b Test channel: Lowest

Peak value:

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	41.49	31.79	8.62	32.10	49.80	74.00	-24.20	Vertical
7236.00	34.98	36.19	11.68	31.97	50.88	74.00	-23.12	Vertical
9648.00	33.26	38.07	14.16	31.56	53.93	74.00	-20.07	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
4824.00	39.98	31.79	8.62	32.10	48.29	74.00	-25.71	Horizontal
7236.00	34.63	36.19	11.68	31.97	50.53	74.00	-23.47	Horizontal
9648.00	32.79	38.07	14.16	31.56	53.46	74.00	-20.54	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal

Average value:

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	30.48	31.79	8.62	32.10	38.79	54.00	-15.21	Vertical
7236.00	23.82	36.19	11.68	31.97	39.72	54.00	-14.28	Vertical
9648.00	23.58	38.07	14.16	31.56	44.25	54.00	-9.75	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
4824.00	29.45	31.79	8.62	32.10	37.76	54.00	-16.24	Horizontal
7236.00	23.19	36.19	11.68	31.97	39.09	54.00	-14.91	Horizontal
9648.00	22.52	38.07	14.16	31.56	43.19	54.00	-10.81	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal

74.00

Mode:		802	2.11b		Test channe	el:	Middle	
Peak value:								
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	40.34	31.85	8.66	32.12	48.73	74.00	-25.27	Vertical
7311.00	34.92	36.37	11.71	31.91	51.09	74.00	-22.91	Vertical
9748.00	34.18	38.27	14.25	31.56	55.14	74.00	-18.86	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
4874.00	40.67	31.85	8.66	32.12	49.06	74.00	-24.94	Horizontal
7311.00	33.48	36.37	11.71	31.91	49.65	74.00	-24.35	Horizontal
9748.00	34.04	38.27	14.25	31.56	55.00	74.00	-19.00	Horizontal
12185.00	*					74.00		Horizontal

Average value:

14622.00

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	31.12	31.85	8.66	32.12	39.51	54.00	-14.49	Vertical
7311.00	23.21	36.37	11.71	31.91	39.38	54.00	-14.62	Vertical
9748.00	23.42	38.27	14.25	31.56	44.38	54.00	-9.62	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
4874.00	30.73	31.85	8.66	32.12	39.12	54.00	-14.88	Horizontal
7311.00	22.55	36.37	11.71	31.91	38.72	54.00	-15.28	Horizontal
9748.00	23.74	38.27	14.25	31.56	44.70	54.00	-9.30	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*			_		54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	2.11b		Test channe	el:	Highest	
Peak value:								
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	46.59	31.90	8.70	32.15	55.04	74.00	-18.96	Vertical
7386.00	36.05	36.49	11.76	31.83	52.47	74.00	-21.53	Vertical
9848.00	34.36	38.62	14.31	31.77	55.52	74.00	-18.48	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
4924.00	45.63	31.90	8.70	32.15	54.08	74.00	-19.92	Horizontal
7386.00	34.81	36.49	11.76	31.83	51.23	74.00	-22.77	Horizontal
9848.00	33.91	38.62	14.31	31.77	55.07	74.00	-18.93	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal

Average value:

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	37.37	31.90	8.70	32.15	45.82	54.00	-8.18	Vertical
7386.00	25.93	36.49	11.76	31.83	42.35	54.00	-11.65	Vertical
9848.00	24.35	38.62	14.31	31.77	45.51	54.00	-8.49	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
4924.00	35.90	31.90	8.70	32.15	44.35	54.00	-9.65	Horizontal
7386.00	24.17	36.49	11.76	31.83	40.59	54.00	-13.41	Horizontal
9848.00	23.15	38.62	14.31	31.77	44.31	54.00	-9.69	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	11g		Test channe	el:	Lowest	
Peak value:								
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	40.01	31.79	8.62	32.10	48.32	74.00	-25.68	Vertical
7236.00	34.04	36.19	11.68	31.97	49.94	74.00	-24.06	Vertical
9648.00	32.59	38.07	14.16	31.56	53.26	74.00	-20.74	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
4824.00	38.72	31.79	8.62	32.10	47.03	74.00	-26.97	Horizontal
7236.00	33.81	36.19	11.68	31.97	49.71	74.00	-24.29	Horizontal
9648.00	32.17	38.07	14.16	31.56	52.84	74.00	-21.16	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal

Average value:

Average valu	<u>.</u>							
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	29.12	31.79	8.62	32.10	37.43	54.00	-16.57	Vertical
7236.00	22.91	36.19	11.68	31.97	38.81	54.00	-15.19	Vertical
9648.00	22.94	38.07	14.16	31.56	43.61	54.00	-10.39	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
4824.00	28.28	31.79	8.62	32.10	36.59	54.00	-17.41	Horizontal
7236.00	22.40	36.19	11.68	31.97	38.30	54.00	-15.70	Horizontal
9648.00	21.93	38.07	14.16	31.56	42.60	54.00	-11.40	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	2.11g		Test channe	el:	Middle	
Peak value:								
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	39.12	31.85	8.66	32.12	47.51	74.00	-26.49	Vertical
7311.00	34.14	36.37	11.71	31.91	50.31	74.00	-23.69	Vertical
9748.00	33.63	38.27	14.25	31.56	54.59	74.00	-19.41	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
4874.00	39.63	31.85	8.66	32.12	48.02	74.00	-25.98	Horizontal
7311.00	32.80	36.37	11.71	31.91	48.97	74.00	-25.03	Horizontal
9748.00	33.52	38.27	14.25	31.56	54.48	74.00	-19.52	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal

Average value:

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	29.99	31.85	8.66	32.12	38.38	54.00	-15.62	Vertical
7311.00	22.46	36.37	11.71	31.91	38.63	54.00	-15.37	Vertical
9748.00	22.88	38.27	14.25	31.56	43.84	54.00	-10.16	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
4874.00	29.76	31.85	8.66	32.12	38.15	54.00	-15.85	Horizontal
7311.00	21.89	36.37	11.71	31.91	38.06	54.00	-15.94	Horizontal
9748.00	23.24	38.27	14.25	31.56	44.20	54.00	-9.80	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	2.11g		Test channe	el:	Highest	
Peak value:								
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	44.47	31.90	8.70	32.15	52.92	74.00	-21.08	Vertical
7386.00	34.71	36.49	11.76	31.83	51.13	74.00	-22.87	Vertical
9848.00	33.40	38.62	14.31	31.77	54.56	74.00	-19.44	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
4924.00	43.84	31.90	8.70	32.15	52.29	74.00	-21.71	Horizontal
7386.00	33.64	36.49	11.76	31.83	50.06	74.00	-23.94	Horizontal
9848.00	33.03	38.62	14.31	31.77	54.19	74.00	-19.81	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal

Average value:

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	35.42	31.90	8.70	32.15	43.87	54.00	-10.13	Vertical
7386.00	24.63	36.49	11.76	31.83	41.05	54.00	-12.95	Vertical
9848.00	23.43	38.62	14.31	31.77	44.59	54.00	-9.41	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
4924.00	34.23	31.90	8.70	32.15	42.68	54.00	-11.32	Horizontal
7386.00	23.04	36.49	11.76	31.83	39.46	54.00	-14.54	Horizontal
9848.00	22.30	38.62	14.31	31.77	43.46	54.00	-10.54	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	.11n(H20)		Test channe	el:	Lowest	
Peak value:								
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	40.59	31.79	8.62	32.10	48.90	74.00	-25.10	Vertical
7236.00	34.41	36.19	11.68	31.97	50.31	74.00	-23.69	Vertical
9648.00	32.85	38.07	14.16	31.56	53.52	74.00	-20.48	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
4824.00	39.22	31.79	8.62	32.10	47.53	74.00	-26.47	Horizontal
7236.00	34.13	36.19	11.68	31.97	50.03	74.00	-23.97	Horizontal
9648.00	32.42	38.07	14.16	31.56	53.09	74.00	-20.91	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal

Average value:

Average valu	<u>.</u>							
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	29.65	31.79	8.62	32.10	37.96	54.00	-16.04	Vertical
7236.00	23.27	36.19	11.68	31.97	39.17	54.00	-14.83	Vertical
9648.00	23.19	38.07	14.16	31.56	43.86	54.00	-10.14	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
4824.00	28.74	31.79	8.62	32.10	37.05	54.00	-16.95	Horizontal
7236.00	22.71	36.19	11.68	31.97	38.61	54.00	-15.39	Horizontal
9648.00	22.16	38.07	14.16	31.56	42.83	54.00	-11.17	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Horizontal

74.00

Mode:		8	02.11n(H20)		Test channe	el:	Middle	
Peak value:								
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	39.60	31.85	8.66	32.12	47.99	74.00	-26.01	Vertical
7311.00	34.45	36.37	11.71	31.91	50.62	74.00	-23.38	Vertical
9748.00	33.84	38.27	14.25	31.56	54.80	74.00	-19.20	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
4874.00	40.04	31.85	8.66	32.12	48.43	74.00	-25.57	Horizontal
7311.00	33.07	36.37	11.71	31.91	49.24	74.00	-24.76	Horizontal
9748.00	33.73	38.27	14.25	31.56	54.69	74.00	-19.31	Horizontal
12185.00	*					74.00		Horizontal

Average value:

14622.00

Average valu	C.							
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	30.43	31.85	8.66	32.12	38.82	54.00	-15.18	Vertical
7311.00	22.76	36.37	11.71	31.91	38.93	54.00	-15.07	Vertical
9748.00	23.09	38.27	14.25	31.56	44.05	54.00	-9.95	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
4874.00	30.14	31.85	8.66	32.12	38.53	54.00	-15.47	Horizontal
7311.00	22.15	36.37	11.71	31.91	38.32	54.00	-15.68	Horizontal
9748.00	23.44	38.27	14.25	31.56	44.40	54.00	-9.60	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	2.11n(H20)		Test channe	el:	Highest	
Peak value:								
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	45.31	31.90	8.70	32.15	53.76	74.00	-20.24	Vertical
7386.00	35.24	36.49	11.76	31.83	51.66	74.00	-22.34	Vertical
9848.00	33.78	38.62	14.31	31.77	54.94	74.00	-19.06	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
4924.00	44.55	31.90	8.70	32.15	53.00	74.00	-21.00	Horizontal
7386.00	34.10	36.49	11.76	31.83	50.52	74.00	-23.48	Horizontal
9848.00	33.38	38.62	14.31	31.77	54.54	74.00	-19.46	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal

Average value:

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	36.19	31.90	8.70	32.15	44.64	54.00	-9.36	Vertical
7386.00	25.14	36.49	11.76	31.83	41.56	54.00	-12.44	Vertical
9848.00	23.79	38.62	14.31	31.77	44.95	54.00	-9.05	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
4924.00	34.89	31.90	8.70	32.15	43.34	54.00	-10.66	Horizontal
7386.00	23.48	36.49	11.76	31.83	39.90	54.00	-14.10	Horizontal
9848.00	22.63	38.62	14.31	31.77	43.79	54.00	-10.21	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802	2.11n(H40)		Test channe	el:	Lowest	
Peak value:								
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
4844.00	39.11	31.81	8.63	32.11	47.44	74.00	-26.56	Vertical
7266.00	33.47	36.28	11.69	31.94	49.50	74.00	-24.50	Vertical
9688.00	32.18	38.13	14.21	31.52	53.00	74.00	-21.00	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
4844.00	37.97	31.81	8.63	32.11	46.30	74.00	-27.70	Horizontal
7266.00	33.32	36.28	11.69	31.94	49.35	74.00	-24.65	Horizontal
9688.00	31.80	38.13	14.21	31.52	52.62	74.00	-21.38	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal

Average value:

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
4844.00	28.29	31.81	8.63	32.11	36.62	54.00	-17.38	Vertical
7266.00	22.37	36.28	11.69	31.94	38.40	54.00	-15.60	Vertical
9688.00	22.55	38.13	14.21	31.52	43.37	54.00	-10.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
4844.00	27.57	31.81	8.63	32.11	35.90	54.00	-18.10	Horizontal
7266.00	21.92	36.28	11.69	31.94	37.95	54.00	-16.05	Horizontal
9688.00	21.57	38.13	14.21	31.52	42.39	54.00	-11.61	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:		802.11n(H40)			Test channe	el:	Middle	
Peak value:								
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	38.38	31.85	8.66	32.12	46.77	74.00	-27.23	Vertical
7311.00	33.67	36.37	11.71	31.91	49.84	74.00	-24.16	Vertical
9748.00	33.29	38.27	14.25	31.56	54.25	74.00	-19.75	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
4874.00	39.01	31.85	8.66	32.12	47.40	74.00	-26.60	Horizontal
7311.00	32.39	36.37	11.71	31.91	48.56	74.00	-25.44	Horizontal
9748.00	33.22	38.27	14.25	31.56	54.18	74.00	-19.82	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal

Average value:

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	29.30	31.85	8.66	32.12	37.69	54.00	-16.31	Vertical
7311.00	22.01	36.37	11.71	31.91	38.18	54.00	-15.82	Vertical
9748.00	22.56	38.27	14.25	31.56	43.52	54.00	-10.48	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
4874.00	29.17	31.85	8.66	32.12	37.56	54.00	-16.44	Horizontal
7311.00	21.50	36.37	11.71	31.91	37.67	54.00	-16.33	Horizontal
9748.00	22.94	38.27	14.25	31.56	43.90	54.00	-10.10	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*			_		54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Mode:			2.11n(H40)		Test channe	Test channel:		Highest				
Peak value:												
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				
4904.00	43.20	31.88	8.68	32.13	51.63	74.00	-22.37	Vertical				
7356.00	33.90	36.45	11.75	31.86	50.24	74.00	-23.76	Vertical				
9808.00	32.82	38.43	14.29	31.68	53.86	74.00	-20.14	Vertical				
12310.00	*					74.00		Vertical				
14772.00	*					74.00		Vertical				
4904.00	42.77	31.88	8.68	32.13	51.20	74.00	-22.80	Horizontal				
7356.00	32.94	36.45	11.75	31.86	49.28	74.00	-24.72	Horizontal				
9808.00	32.50	38.43	14.29	31.68	53.54	74.00	-20.46	Horizontal				
12310.00	*					74.00		Horizontal				
14772.00	*					74.00		Horizontal				

Average value:

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
4904.00	34.25	31.88	8.68	32.13	42.68	54.00	-11.32	Vertical
7356.00	23.86	36.45	11.75	31.86	40.20	54.00	-13.80	Vertical
9808.00	22.88	38.43	14.29	31.68	43.92	54.00	-10.08	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
4904.00	33.22	31.88	8.68	32.13	41.65	54.00	-12.35	Horizontal
7356.00	22.35	36.45	11.75	31.86	38.69	54.00	-15.31	Horizontal
9808.00	21.78	38.43	14.29	31.68	42.82	54.00	-11.18	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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