

Global United Technology Services Co., Ltd.

Report No.: GTSE13040037401

FCC REPORT

Applicant: AHOKU ELECTRONIC COMPANY

Address of Applicant: 5F,No.88,Sec.1 Nei-Hu Road, Taipei, Taiwan, R.O.C.

Equipment Under Test (EUT)

Product Name: WiFi Travel Router

Model No.: EEC-230WiFi

Trade Mark: Ahoku

FCC ID: 2AA8WEEC230WIFI

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

Date of sample receipt: April 01, 2013

Date of Test: April 01- October 15, 2013

Date of report issued: October 28, 2013

Test Result: PASS *

Authorized Signature:

Robinson Lo 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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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



Version 2

Version No.	Date	Description
00	October 28, 2013	Original

Prepared By:	Sam. Gao	Date:	October 28, 2013	
	Project Engineer			
Check By:	Hams. Hu	Date:	October 28, 2013	
	Poviouer			

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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
Channel 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.

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5 General Information

5.1 Client Information

Ī	Applicant:	AHOKU ELECTRONIC COMPANY
	Address of Applicant:	5F,No.88,Sec.1 Nei-Hu Road, Taipei, Taiwan, R.O.C.
Ī	Manufacturer/Factory:	Ahoku Techland Electronics LTD.
	Address of Manufacturer/ Factory:	No. 5, DaBanDi 1st Rd., XiaBian, ChangAn, DongGuan City, GuangDong, China

5.2 General Description of EUT

Product Name:	WiFi Travel Router
Model No.:	EEC-230WiFi
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
	2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(HT20)
	7 for 802.11n(HT40)
Channel separation:	5MHz
Modulation technology:	Direct Sequence Spread Spectrum (DSSS)
(IEEE 802.11b)	
Modulation technology:	Orthogonal Frequency Division Multiplexing(OFDM)
(IEEE 802.11g/802.11n)	
Antenna Type:	Integral Antenna
Antenna gain:	1.24dBi (declare by Applicant)
Power supply:	AC100-240V, 50/60Hz

Shenzhen, China 518102

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Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Frequency						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:

Test channel	Frequency (MHz)			
rest chamier	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: 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.

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	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

None.

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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5.5 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 fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

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-2, June 26, 2013.

5.6 **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

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	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. 29 2013	Mar. 28 2014		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 6 2012	Dec. 5 2013		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014		
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014		

Con	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)	GTS264	Sep. 08 2011	Sep. 07 2013		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 09 2013	July 08 2014		



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement: 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.

E.U.T Antenna:

The antenna is integral antenna, the best case gain of the antenna is 1.24dBi





7.2 Conducted Emissions

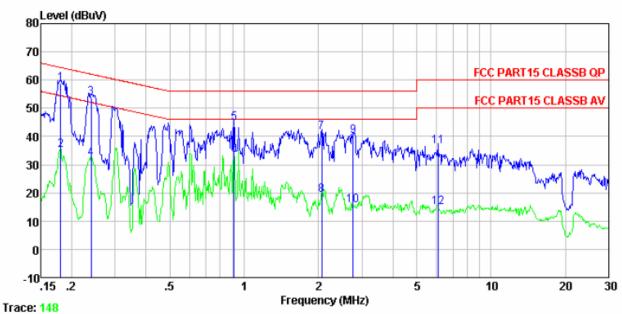
Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto					
Limit:	Frequency range (MHz)	Limit (c	dBuV)				
	Prequency range (MHZ) Quasi-peak Average						
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5 5-30	56 60	46 50				
	* Decreases with the logarithm		50				
Test setup:	Reference Plane	Tor the frequency:					
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test L/SN: Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	 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. 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). 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 Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

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Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2012 LINE

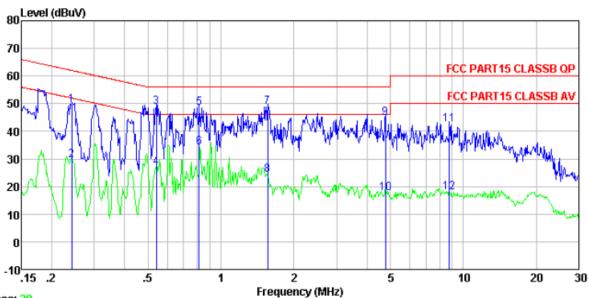
Job No. : 374RF
Test mode : WiFi mode

Test Engineer: Sam

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	d₿	dBu₹	dBuV	dB	
1	0.181	59.04	-0.23	0.10	58.91	64.46	-5.55	QP
2 3	0.181	35.45	-0.23	0.10	35.32	54.46	-19.14	Average
	0.240	53.84	-0.23	0.10	53.71	62.08	-8.37	QP
4 5	0.240	32.16	-0.23	0.10	32.03	52.08	-20.05	Average
5	0.909	44.90	-0.21	0.10	44.79	56.00	-11.21	QP
6 7	0.909	33.76	-0.21	0.10	33.65	46.00	-12.35	Average
7	2.066	41.70	-0.24	0.10	41.56	56.00	-14.44	QP
8	2.066	19.46	-0.24	0.10	19.32	46.00	-26.68	Average
9	2.765	40.39	-0.25	0.10	40.24	56.00	-15.76	QP
10	2.765	15.84	-0.25	0.10	15.69	46.00	-30.31	Average
11	6.089	36.86	-0.32	0.12	36.66	60.00	-23.34	QP
12	6.089	15.12	-0.32	0.12	14.92	50.00	-35.08	Average



Neutral:



Trace: 20

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL

Job No. : 374RF Test mode : WiFi mode Test Engineer: Sam

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBu₹	dBuV	dB	
1	0.242	49.37	-0.09	0.10	49.38	62.04	-12.66	QP
2	0.242	29.45	-0.09	0.10	29.46	52.04	-22.58	Average
3	0.541	48.62	-0.08	0.10	48.64	56.00	-7.36	QP
4 5	0.541	26.85	-0.08	0.10	26.87	46.00	-19.13	Average
	0.813	48.35	-0.08	0.10	48.37	56.00	-7.63	QP
6	0.813	34.31	-0.08	0.10	34.33	46.00	-11.67	Average
7	1.560	48.77	-0.10	0.10	48.77	56.00	-7.23	QP
8	1.560	24.31	-0.10	0.10	24.31	46.00	-21.69	Average
9	4.772	45.00	-0.16	0.10	44.94	56.00	-11.06	QP
10	4.772	17.54	-0.16	0.10	17.48	46.00	-28.52	Average
11	8.776	42.55	-0.26	0.19	42.48	60.00	-17.52	QP
12	8.776	18.10	-0.26	0.19	18.03	50.00	-31.97	Average

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

Test 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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

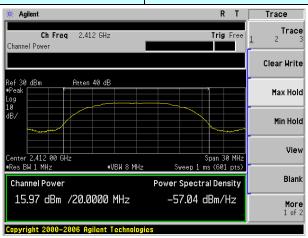
Measurement Data

Test CH		Peak Outp	Limit (dBm)	Result		
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit (dDin)	Nesuit
Lowest	15.97	13.24	13.28	13.45		Pass
Middle	15.80	13.20	13.57	13.27	30.00	
Highest	15.88	13.11	13.35	13.40		

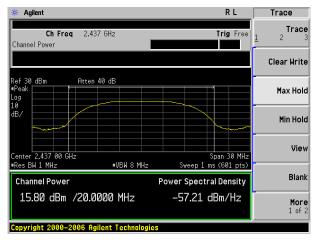


Test plot as follows:

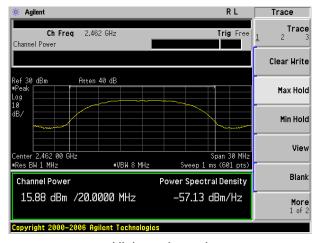
Test mode: 802.11b



Lowest channel



Middle channel

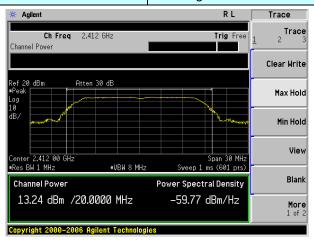


Highest channel

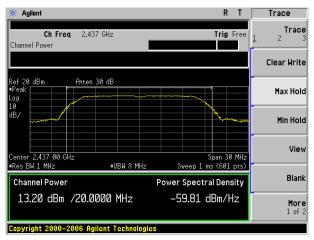
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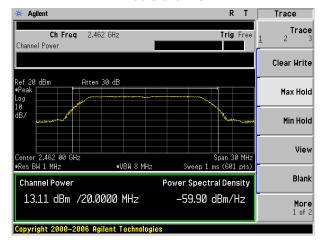
Test mode: 802.11g



Lowest channel



Middle channel

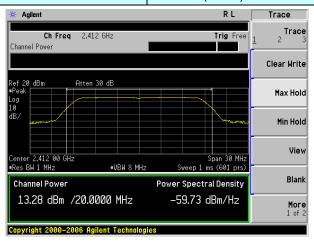


Highest channel

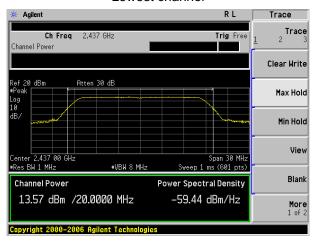
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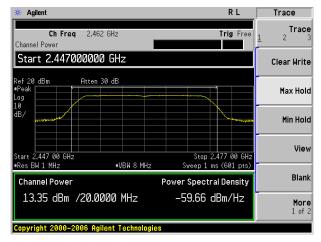
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

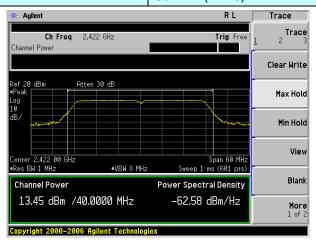


Highest channel

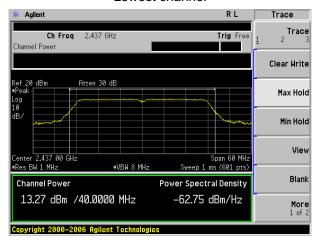
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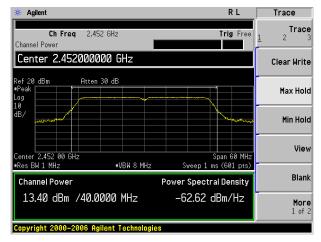
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.4 Channel Bandwidth

Test 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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

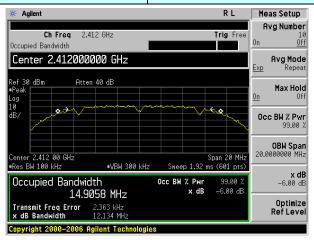
Test CH		Channel Bar	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Nesuit
Lowest	12.134	16.578	17.731	36.479		Pass
Middle	12.144	16.605	17.740	36.487	>500	
Highest	12.143	16.551	17.682	36.513		

Test plot as follows:

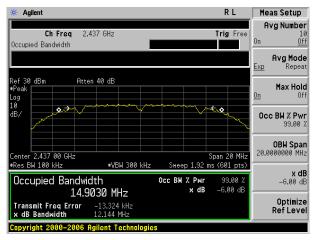
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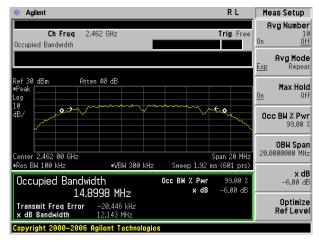
Test mode: 802.11b



Lowest channel



Middle channel



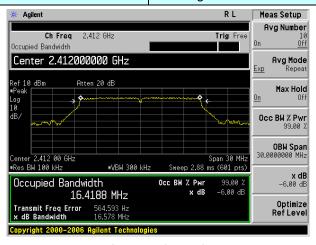
Highest channel

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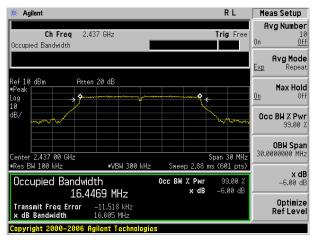
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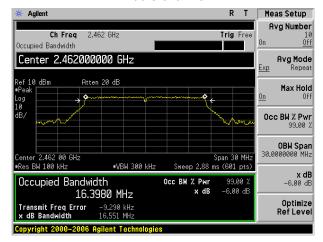
Test mode: 802.11g



Lowest channel



Middle channel

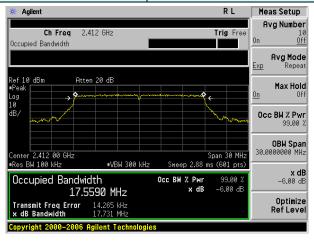


Highest channel

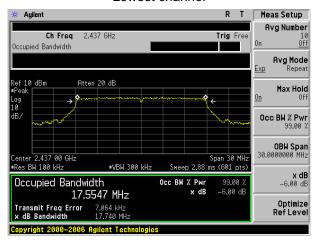
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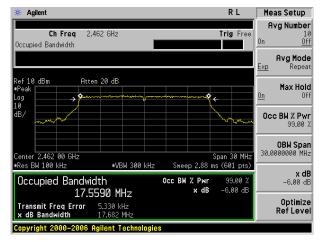
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



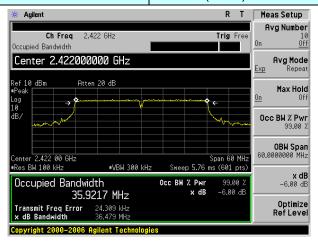
Highest channel

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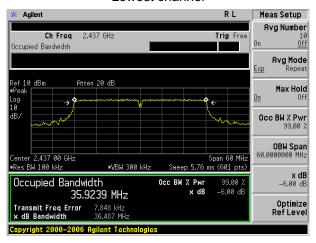


Project No.: GTSE130400374RF

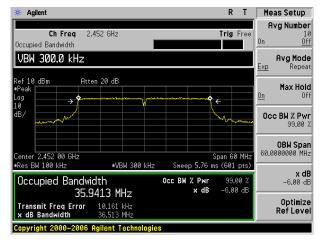
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03 8dBm				
Limit:					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

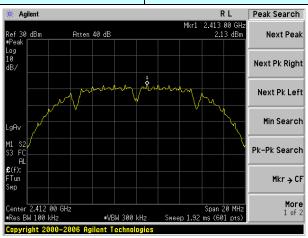
Measurement Data

Test CH		Power Sp	Limit	Result					
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit			
Lowest	2.13	-4.35	-4.42	-7.56					
Middle	2.05	-3.62	-3.93	-7.44	8.00	Pass			
Highest	1.89	-3.95	-4.71	-7.55					

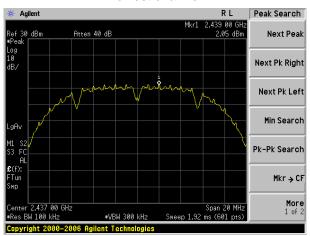


Test plot as follows:

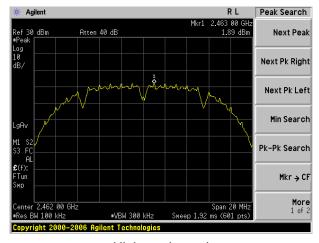
Test mode: 802.11b



Lowest channel



Middle channel

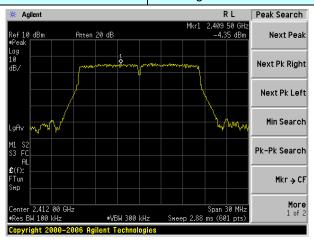


Highest channel

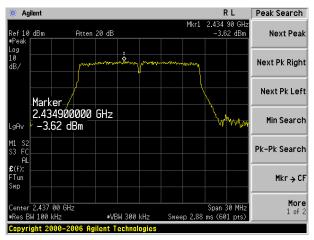
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



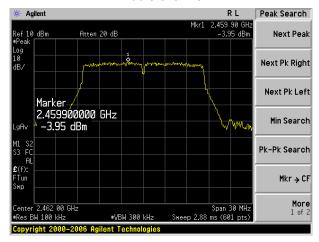
Test mode: 802.11g



Lowest channel



Middle channel

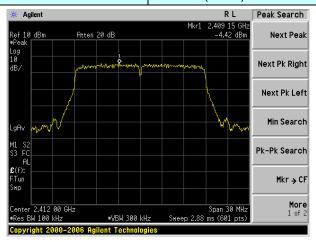


Highest channel

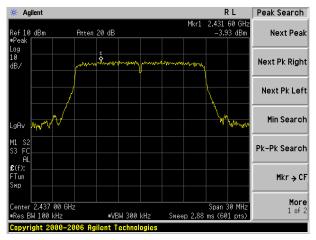
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



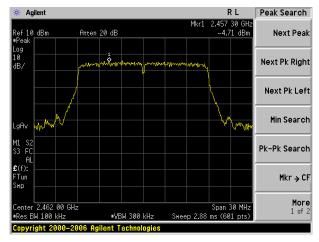
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

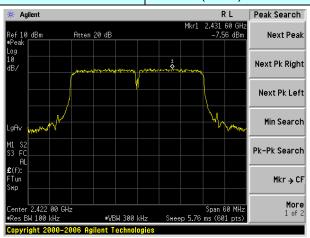


Highest channel

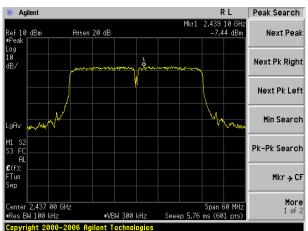
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



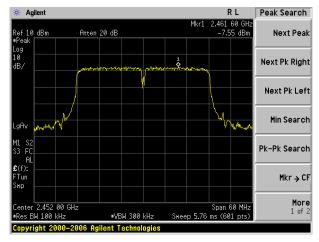
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

7.6.1 Conducted Emission Method

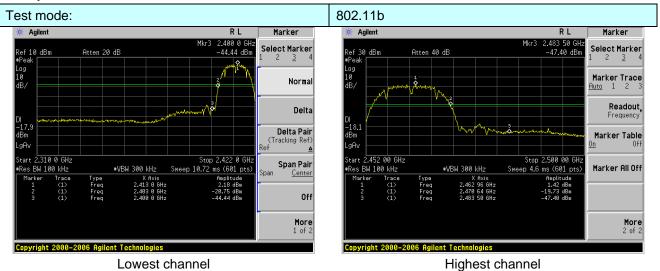
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

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Test plot as follows:

Test mode:

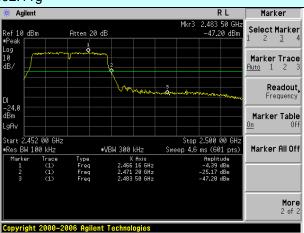


Lowest channel

802.11g



Lowest channel



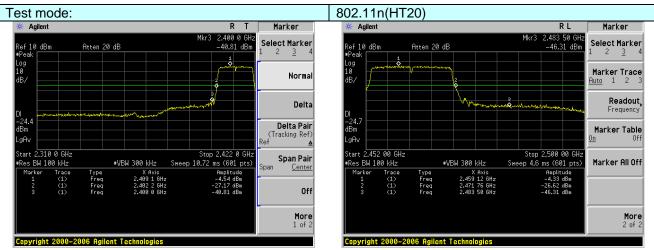
Highest channel

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Project No.: GTSE130400374RF

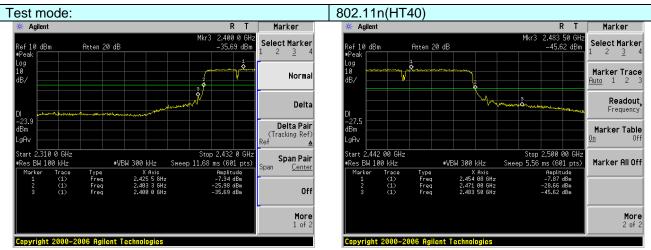
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Lowest channel

Highest channel



Lowest channel

Highest channel

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to							
, , ,	2500MHz) data	was showed.			·			
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Frequency Detector RBW VBW Value						
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGIIZ	AV	1MHz	10Hz	Average			
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Value			
	Above 1	CH ₇	54.0		Average			
	Above	GITZ	74.0	0	Peak			
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier							
Test Procedure:	lurn 0.8m lm							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section	5.3 for details	3					
Test results:	Pass							



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11b	Test channel:	Lowest
root modo.	002.110	1 oot onamion.	LOWOOL

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
2390.00	51.57	27.18	4.05	34.83	47.97	74.00	-26.03	Horizontal
2400.00	53.62	27.18	4.07	34.83	50.04	74.00	-23.96	Horizontal
2390.00	53.70	27.18	4.05	34.83	50.10	74.00	-23.90	Vertical
2400.00	55.28	27.18	4.07	34.83	51.70	74.00	-22.30	Vertical

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
2390.00	39.85	27.18	4.05	34.83	36.25	54.00	-17.75	Horizontal
2400.00	41.69	27.18	4.07	34.83	38.11	54.00	-15.89	Horizontal
2390.00	40.74	27.18	4.05	34.83	37.14	54.00	-16.86	Vertical
2400.00	42.22	27.18	4.07	34.83	38.64	54.00	-15.36	Vertical

Test mode:	802.11b	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
2483.50	51.42	27.12	4.13	34.86	47.81	74.00	-26.19	Horizontal
2500.00	48.05	27.15	4.14	34.87	44.47	74.00	-29.53	Horizontal
2483.50	53.34	27.12	4.13	34.86	49.73	74.00	-24.27	Vertical
2500.00	51.08	27.15	4.14	34.87	47.50	74.00	-26.50	Vertical

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
2483.50	40.20	27.12	4.13	34.86	36.59	54.00	-17.41	Horizontal
2500.00	38.32	27.15	4.14	34.87	34.74	54.00	-19.26	Horizontal
2483.50	42.09	27.12	4.13	34.86	38.48	54.00	-15.52	Vertical
2500.00	39.93	27.15	4.14	34.87	36.35	54.00	-17.65	Vertical

Remark:

- 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.

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802.11g

Test mode:

Report No.: GTSE13040037401

Lowest

Peak value	:	<u> </u>				<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
2390.00	48.28	27.38	3.91	34.83	44.74	74.00	-29.26	Horizontal
2400.00	50.48	27.38	3.93	34.83	46.96	74.00	-27.04	Horizontal
2390.00	50.20	27.38	3.91	34.83	46.66	74.00	-27.34	Vertical
2400.00	51.93	27.38	3.93	34.83	48.41	74.00	-25.59	Vertical
Average va	lue:			•	•			•
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	34.35	27.38	3.91	34.83	30.81	54.00	-23.19	Horizontal
2400.00	36.47	27.38	3.93	34.83	32.95	54.00	-21.05	Horizontal
2390.00	35.19	27.38	3.91	34.83	31.65	54.00	-22.35	Vertical
2400.00	36.97	27.38	3.93	34.83	33.45	54.00	-20.55	Vertical
				•	•			•
Test mode:		802.1	1g	Tes	st channel:	F	lighest	
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	48.13	27.32	3.99	34.86	44.58	74.00	-29.42	Horizontal
2500.00	44.91	27.35	4.00	34.87	41.39	74.00	-32.61	Horizontal
2483.50	49.84	27.32	3.99	34.86	46.29	74.00	-27.71	Vertical
2500.00	47.73	27.35	4.00	34.87	44.21	74.00	-29.79	Vertical
Average va	lue:	1		7	1	1		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
2483.50	35.02	27.32	3.99	34.86	31.47	54.00	-22.53	Horizontal
2500.00	33.42	27.35	4.00	34.87	29.90	54.00	-24.10	Horizontal
	26.06	27.32	3.99	34.86	33.31	54.00	-20.69	Vertical
2483.50	36.86	27.02						

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

Test channel:

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Test mode:

Peak value:

Report No.: GTSE13040037401

Lowest

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	48.23	27.38	3.91	34.83	44.69	74.00	-29.31	Horizontal
2400.00	50.01	27.38	3.93	34.83	46.49	74.00	-27.51	Horizontal
2390.00	44.33	27.38	3.91	34.83	40.79	74.00	-33.21	Vertical
2400.00	46.27	27.38	3.93	34.83	42.75	74.00	-31.25	Vertical
Average va	lue:			•	•			
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	35.65	27.38	3.91	34.83	32.11	54.00	-21.89	Horizontal
2400.00	37.95	27.38	3.93	34.83	34.43	54.00	-19.57	Horizontal
2390.00	30.76	27.38	3.91	34.83	27.22	54.00	-26.78	Vertical
2400.00	33.40	27.38	3.93	34.83	29.88	54.00	-24.12	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	ŀ	lighest	
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	46.63	27.32	3.99	34.86	43.08	74.00	-30.92	Horizontal
2500.00	44.98	27.35	4.00	34.87	41.46	74.00	-32.54	Horizontal
2483.50	48.73	27.32	3.99	34.86	45.18	74.00	-28.82	Vertical
2500.00	45.89	27.35	4.00	34.87	42.37	74.00	-31.63	Vertical
Average va	lue:				_			
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	34.55	27.32	3.99	34.86	31.00	54.00	-23.00	Horizontal
2500.00	32.82	27.35	4.00	34.87	29.30	54.00	-24.70	Horizontal
2483.50	35.41	27.32	3.99	34.86	31.86	54.00	-22.14	Vertical
2500.00							00.00	
2500.00 Remark:	33.84	27.35	4.00	34.87	30.32	54.00	-23.68	Vertical

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

Test channel:

802.11n(HT20)

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Test mode:

Peak value:

Report No.: GTSE13040037401

Lowest

T OUR VUIDO								
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	46.94	27.38	3.91	34.83	43.40	74.00	-30.60	Horizontal
2400.00	47.93	27.38	3.93	34.83	44.41	74.00	-29.59	Horizontal
2390.00	47.91	27.38	3.91	34.83	44.37	74.00	-29.63	Vertical
2400.00	49.51	27.38	3.93	34.83	45.99	74.00	-28.01	Vertical
Average va	lue:							
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	35.80	27.38	3.91	34.83	32.26	54.00	-21.74	Horizontal
2400.00	39.08	27.38	3.93	34.83	35.56	54.00	-18.44	Horizontal
2390.00	36.37	27.38	3.91	34.83	32.83	54.00	-21.17	Vertical
2400.00	39.04	27.38	3.93	34.83	35.52	54.00	-18.48	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:	H	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
2483.50	47.97	27.32	3.99	34.86	44.42	74.00	-29.58	Horizontal
2500.00	46.49	27.35	4.00	34.87	42.97	74.00	-31.03	Horizontal
2483.50	48.62	27.32	3.99	34.86	45.07	74.00	-28.93	Vertical
2500.00	46.67	27.35	4.00	34.87	43.15	74.00	-30.85	Vertical
Average va	lue:							
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	36.75	27.32	3.99	34.86	33.20	54.00	-20.80	Horizontal
2500.00	35.83	27.35	4.00	34.87	32.31	54.00	-21.69	Horizontal
2483.50	36.91	27.32	3.99	34.86	33.36	54.00	-20.64	Vertical
2500.00	35.38	27.35	4.00	34.87	31.86	54.00	-22.14	Vertical
Remark:								

Test channel:

802.11n(HT40)

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^{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

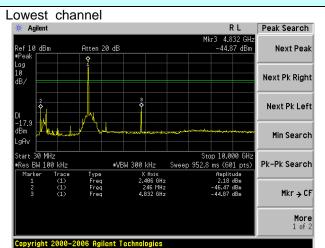
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



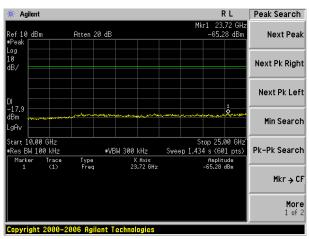
Test plot as follows:

Test mode:

802.11b

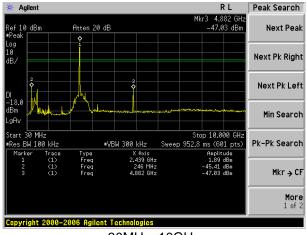


30MHz~10GHz

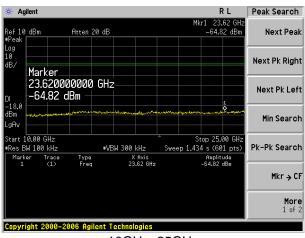


10GHz~25GHz

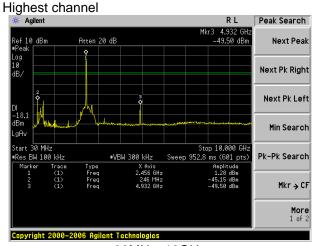
Middle channel



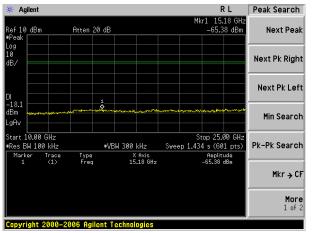
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



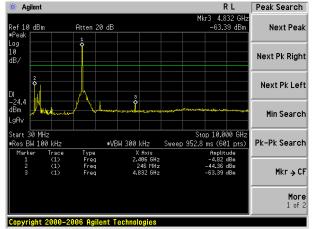
10GHz~25GHz



Test mode:

802.11g

Lowest channel

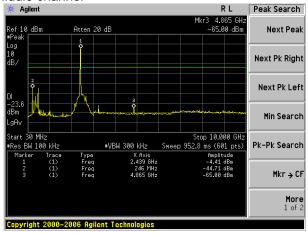


30MHz~10GHz

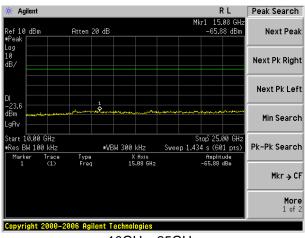
Agilent Peak Search Ref 10 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.00^GHz •Res BW 100 kHz Stop 25.00 GHz Sweep 1.434 s (601 pts) Pk-Pk Search Type Freq X Axis 18.70 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

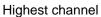
Middle channel

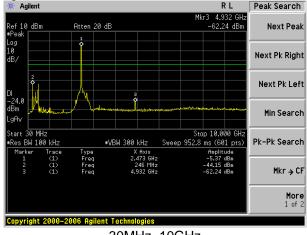


30MHz~10GHz

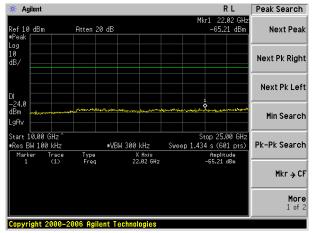


10GHz~25GHz





30MHz~10GHz



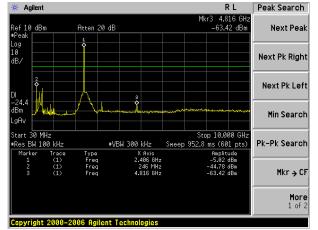
10GHz~25GHz



Test mode:

802.11n(HT20)

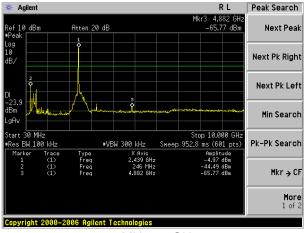
Lowest channel



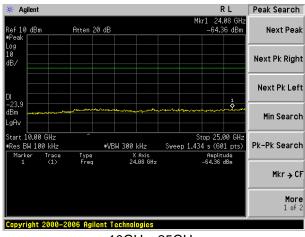
30MHz~10GHz

10GHz~25GHz

Middle channel

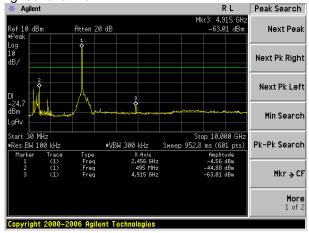


30MHz~10GHz

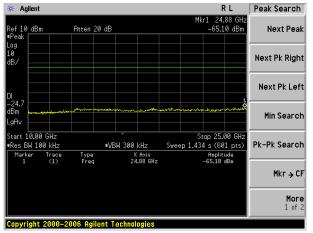


10GHz~25GHz





30MHz~10GHz



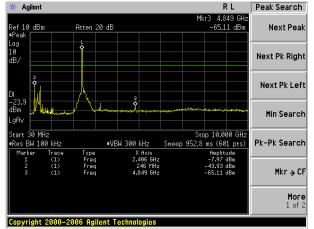
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

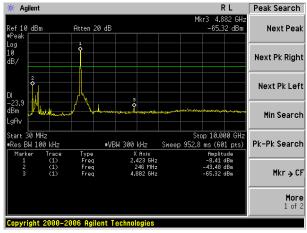


30MHz~10GHz

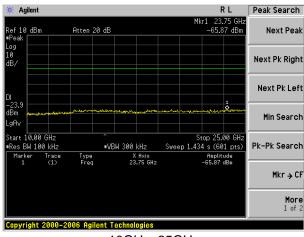
Peak Search Mkr1 14.90 GH: -64.99 dBm Ref 10 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.00 GH; Sweep 1.434 s (601 pts) Start 10.00 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kH: Type Freq X Axis 14.90 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

Middle channel

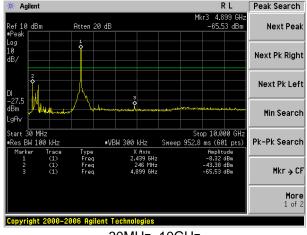


30MHz~10GHz

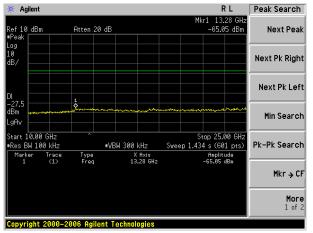


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209										
Test Method:	ANSI C63.4: 200	3										
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz Measurement Distance: 3m										
Test site:	Measurement Dis	stance: 3m										
Receiver setup:	Frequency	Frequency Detector RBW VBW Value 30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak										
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak Above 1GHz Peak 1MHz 3MHz Peak										
	Above 1GHz	Above 1GHz Peak 1MHz 3MHz Peak AV 1MHz 10Hz Average										
	Above 10112	AV 1MHz 10Hz A										
Limit:	Frequen	Frequency Limit (dBuV/m @3m)										
	30MHz-88	30MHz-88MHz 40.00 Quasi-pe										
	88MHz-216	88MHz-216MHz 43.50 Quasi-peak										
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak										
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak										
	Above 10	Above 1GHz 54.00 Average										
	710000 10	74.00 Peak										
	Tum 0.8m Table 0.8m A Ground Plane —	4m		Search Antenna RF Test Receiver								
		4m Spectrum Analyzer Turn 0 Sm Im										
Test Procedure:	1. The EUT was	placed on the	top of a rot	ating table 0	.8 meters above							

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	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.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



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
78.69	50.07	10.37	1.02	31.77	29.69	40.00	-10.31	Vertical
237.48	57.69	13.99	2.06	32.16	41.58	46.00	-4.42	Vertical
360.45	54.68	16.43	2.67	32.00	41.78	46.00	-4.22	Vertical
480.53	51.15	18.07	3.22	31.62	40.82	46.00	-5.18	Vertical
601.43	47.19	20.46	3.73	31.04	40.34	46.00	-5.66	Vertical
842.13	42.97	22.51	4.63	31.26	38.85	46.00	-7.15	Vertical
46.02	37.36	15.49	0.73	32.00	21.58	40.00	-18.42	Horizontal
145.86	49.89	10.23	1.54	31.97	29.69	43.50	-13.81	Horizontal
246.82	59.06	14.08	2.11	32.16	43.09	46.00	-2.91	Horizontal
360.00	56.20	16.43	2.67	32.00	43.30	46.00	-2.70	Horizontal
480.53	50.94	18.07	3.22	31.62	40.61	46.00	-5.39	Horizontal
601.43	44.56	20.46	3.73	31.04	37.71	46.00	-8.29	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:						<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	38.28	31.79	5.34	24.07	48.66	74.00	-25.34	Vertical
7236.00	34.85	36.19	6.88	26.44	48.80	74.00	-25.20	Vertical
9648.00	28.59	38.07	8.96	25.36	47.58	74.00	-26.42	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.91	31.79	5.34	24.07	53.97	74.00	-20.03	Horizontal
7236.00	37.39	36.19	6.88	26.44	54.02	74.00	-19.98	Horizontal
9648.00	31.40	38.07	8.96	25.36	53.07	74.00	-20.93	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		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
4824.00	26.28	31.79	5.34	24.07	39.34	54.00	-14.66	Vertical
7236.00	21.85	36.19	6.88	26.44	38.48	54.00	-15.52	Vertical
9648.00	16.19	38.07	8.96	25.36	37.86	54.00	-16.14	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.91	31.79	5.34	24.07	42.97	54.00	-11.03	Horizontal
7236.00	23.39	36.19	6.88	26.44	40.02	54.00	-13.98	Horizontal
9648.00	19.40	38.07	8.96	25.36	41.07	54.00	-12.93	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Те	est channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	1 1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.34	31.85	5.40	24.01	47.90	74.00	-26.10	Vertical
7311.00	35.64	36.37	6.90	26.58	49.65	74.00	-24.35	Vertical
9748.00	30.51	38.27	9.00	25.30	49.80	74.00	-24.20	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.76	31.85	5.40	24.01	53.00	74.00	-21.00	Horizontal
7311.00	37.96	36.37	6.90	26.58	54.65	74.00	-19.35	Horizontal
9748.00	33.43	38.27	9.00	25.30	55.40	74.00	-18.60	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	25.04	31.85	5.40	24.01	38.28	54.00	-15.72	Vertical
7311.00	22.54	36.37	6.90	26.58	39.23	54.00	-14.77	Vertical
9748.00	21.49	38.27	9.00	25.30	43.46	54.00	-10.54	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.66	31.85	5.40	24.01	37.90	54.00	-16.10	Horizontal
7311.00	21.16	36.37	6.90	26.58	37.85	54.00	-16.15	Horizontal
9748.00	18.13	38.27	9.00	25.30	40.10	54.00	-13.90	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					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.

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Test mode:		802.11b		Те	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 0//01	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.82	31.89	5.46	23.96	46.53	74.00	-27.47	Vertical
7386.00	34.63	36.49	6.93	26.79	48.58	74.00	-25.42	Vertical
9848.00	30.91	38.62	9.05	25.26	50.64	74.00	-23.36	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	38.53	31.89	5.46	23.96	51.92	74.00	-22.08	Horizontal
7386.00	37.46	36.49	6.93	26.79	54.09	74.00	-19.91	Horizontal
9848.00	33.92	38.62	9.05	25.26	56.33	74.00	-17.67	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 400	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	21.62	31.89	5.46	23.96	35.01	54.00	-18.99	Vertical
7386.00	21.03	36.49	6.93	26.79	37.66	54.00	-16.34	Vertical
9848.00	18.51	38.62	9.05	25.26	40.92	54.00	-13.08	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	27.63	31.89	5.46	23.96	41.02	54.00	-12.98	Horizontal
7386.00	27.96	36.49	6.93	26.79	44.59	54.00	-9.41	Horizontal
9848.00	21.91	38.62	9.05	25.26	44.32	54.00	-9.68	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	lowes	st	
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	51.34	31.45	5.87	35.47	53.19	74.00	-20.81	Vertical
7236.00	49.67	36.41	7.10	35.30	57.88	74.00	-16.12	Vertical
9648.00	48.58	38.05	9.01	35.73	59.91	74.00	-14.09	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	47.45	31.45	5.87	35.47	49.30	74.00	-24.70	Horizontal
7236.00	46.26	36.41	7.10	35.30	54.47	74.00	-19.53	Horizontal
9648.00	43.56	38.05	9.01	35.73	54.89	74.00	-19.11	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		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
4824.00	40.64	31.45	5.87	35.47	42.49	54.00	-11.51	Vertical
7236.00	39.17	36.41	7.10	35.30	47.38	54.00	-6.62	Vertical
9648.00	32.47	38.05	9.01	35.73	43.80	54.00	-10.20	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	37.45	31.45	5.87	35.47	39.30	54.00	-14.70	Horizontal
7236.00	36.16	36.41	7.10	35.30	44.37	54.00	-9.63	Horizontal
9648.00	33.26	38.05	9.01	35.73	44.59	54.00	-9.41	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	Midd	le	
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	50.63	31.48	5.91	35.48	52.54	74.00	-21.46	Vertical
7311.00	49.00	36.39	7.14	35.28	57.25	74.00	-16.75	Vertical
9748.00	48.49	38.36	9.06	35.75	60.16	74.00	-13.84	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	47.85	31.48	5.91	35.48	49.76	74.00	-24.24	Horizontal
7311.00	47.34	36.39	7.14	35.28	55.59	74.00	-18.41	Horizontal
9748.00	45.29	38.36	9.06	35.75	56.96	74.00	-17.04	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		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
4874.00	40.83	31.48	5.91	35.48	42.74	54.00	-11.26	Vertical
7311.00	38.80	36.39	7.14	35.28	47.05	54.00	-6.95	Vertical
9748.00	35.14	38.36	9.06	35.75	46.81	54.00	-7.19	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	37.85	31.48	5.91	35.48	39.76	54.00	-14.24	Horizontal
7311.00	37.24	36.39	7.14	35.28	45.49	54.00	-8.51	Horizontal
9748.00	34.69	38.36	9.06	35.75	46.36	54.00	-7.64	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g			Test c	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	49.98	31.52	5.93	35.4	19	51.94	74.	00	-22.06	Vertical
7386.00	50.43	36.43	7.16	35.2	24	58.78	74.	00	-15.22	Vertical
9848.00	42.86	38.61	9.08	35.7	77	54.78	74.	00	-19.22	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	47.45	31.52	5.93	35.4	19	49.41	74.	00	-24.59	Horizontal
7386.00	47.37	36.43	7.16	35.2	24	55.72	74.	00	-18.28	Horizontal
9848.00	45.64	38.61	9.08	35.7	77	57.56	74.	00	-16.44	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:				•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	39.98	31.52	5.93	35.4	19	41.94	54.	00	-12.06	Vertical
7386.00	40.03	36.43	7.16	35.2	24	48.38	54.	00	-5.62	Vertical
9848.00	37.06	38.61	9.08	35.7	77	48.98	54.	00	-5.02	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	37.45	31.52	5.93	35.4	19	39.41	54.	00	-14.59	Horizontal
7386.00	36.97	36.43	7.16	35.2	24	45.32	54.	00	-8.68	Horizontal
9848.00	35.24	38.61	9.08	35.7	77	47.16	54.	00	-6.84	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Т	est channel:		Lowe	st	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or (dBu\//m)	Limit L (dBuV		Over Limit (dB)	polarization
4824.00	51.00	31.43	5.87	35.47	7 51.05	74.0	00	-22.95	Vertical
7236.00	47.20	36.39	7.10	35.30	53.61	74.0	00	-20.39	Vertical
9648.00	45.38	38.03	9.01	35.73	54.91	74.0	00	-19.09	Vertical
12060.00	*					74.0	00		Vertical
14472.00	*					74.0	00		Vertical
16884.00	*					74.0	00		Vertical
4824.00	46.51	31.43	5.87	35.4	7 46.56	74.0	00	-27.44	Horizontal
7236.00	45.92	36.39	7.10	35.30	52.33	74.0	00	-21.67	Horizontal
9648.00	43.59	38.03	9.01	35.73	53.12	74.0	00	-20.88	Horizontal
12060.00	*					74.0	00		Horizontal
14472.00	*					74.0	00		Horizontal
16884.00	*					74.0	00		Horizontal
Average val	ue:					_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or (dBu\//m)	Limit L (dBuV		Over Limit (dB)	polarization
4824.00	38.70	31.43	5.87	35.4	7 38.75	54.0	00	-15.25	Vertical
7236.00	35.40	36.39	7.10	35.30	41.81	54.0	00	-12.19	Vertical
9648.00	33.48	38.03	9.01	35.73	3 43.01	54.0	00	-10.99	Vertical
12060.00	*					54.0	00		Vertical
14472.00	*					54.0	00		Vertical
16884.00	*					54.0	00		Vertical
4824.00	36.21	31.43	5.87	35.47	7 36.26	54.0	00	-17.74	Horizontal
7236.00	35.52	36.39	7.10	35.30	41.93	54.0	00	-12.07	Horizontal
9648.00	33.19	38.03	9.01	35.73	3 42.72	54.0	00	-11.28	Horizontal
12060.00	*					54.0	00		Horizontal
14472.00	*					54.0	00		Horizontal
16884.00	*					54.0	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.

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Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
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	49.36	31.46	5.91	35.48	49.47	74.00	-24.53	Vertical
7311.00	48.50	36.37	7.14	35.28	54.95	74.00	-19.05	Vertical
9748.00	47.20	38.34	9.06	35.75	57.07	74.00	-16.93	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	46.54	31.46	5.91	35.48	46.65	74.00	-27.35	Horizontal
7311.00	45.74	36.37	7.14	35.28	52.19	74.00	-21.81	Horizontal
9748.00	43.92	38.34	9.06	35.75	53.79	74.00	-20.21	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		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
4874.00	38.06	31.46	5.91	35.48	38.17	54.00	-15.83	Vertical
7311.00	37.40	36.37	7.14	35.28	43.85	54.00	-10.15	Vertical
9748.00	36.20	38.34	9.06	35.75	46.07	54.00	-7.93	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	36.44	31.46	5.91	35.48	36.55	54.00	-17.45	Horizontal
7311.00	35.44	36.37	7.14	35.28	41.89	54.00	-12.11	Horizontal
9748.00	33.52	38.34	9.06	35.75	43.39	54.00	-10.61	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T20)	Test	channel:	High	est	
Peak value:						<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
4924.00	50.78	31.50	5.93	35.49	50.94	74.00	-23.06	Vertical
7386.00	49.83	36.41	7.16	35.24	56.38	74.00	-17.62	Vertical
9848.00	47.18	38.59	9.08	35.77	57.30	74.00	-16.70	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	46.51	31.50	5.93	35.49	46.67	74.00	-27.33	Horizontal
7386.00	46.35	36.41	7.16	35.24	52.90	74.00	-21.10	Horizontal
9848.00	43.33	38.59	9.08	35.77	53.45	74.00	-20.55	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		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
4924.00	39.58	31.50	5.93	35.49	39.74	54.00	-14.26	Vertical
7386.00	36.63	36.41	7.16	35.24	43.18	54.00	-10.82	Vertical
9848.00	33.38	38.59	9.08	35.77	43.50	54.00	-10.50	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	36.31	31.50	5.93	35.49	36.47	54.00	-17.53	Horizontal
7386.00	35.75	36.41	7.16	35.24	42.30	54.00	-11.70	Horizontal
9848.00	32.93	38.59	9.08	35.77	43.05	54.00	-10.95	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T40)	Test channel:		Lowest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	48.45	31.53	5.89	35.47	50.40	74.00	-23.60	Vertical
7266.00	46.44	36.47	7.12	35.29	54.74	74.00	-19.26	Vertical
9688.00	44.83	38.23	9.03	35.74	56.35	74.00	-17.65	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	46.56	31.53	5.89	35.47	48.51	74.00	-25.49	Horizontal
7266.00	45.83	36.47	7.12	35.29	54.13	74.00	-19.87	Horizontal
9688.00	44.86	38.23	9.03	35.74	56.38	74.00	-17.62	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	.	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	37.45	31.53	5.89	35.47	39.40	54.00	-14.60	Vertical
7266.00	35.54	36.47	7.12	35.29	43.84	54.00	-10.16	Vertical
9688.00	35.33	38.23	9.03	35.74	46.85	54.00	-7.15	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	36.06	31.53	5.89	35.47	38.01	54.00	-15.99	Horizontal
7266.00	35.53	36.47	7.12	35.29	43.83	54.00	-10.17	Horizontal
9688.00	34.86	38.23	9.03	35.74	46.38	54.00	-7.62	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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.

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Test mode:		802.11n(H	T40)	Test channel:		Middle		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	47.82	31.55	5.91	35.48	49.80	74.00	-24.20	Vertical
7311.00	45.76	36.46	7.14	35.28	54.08	74.00	-19.92	Vertical
9748.00	44.99	38.43	9.06	35.75	56.73	74.00	-17.27	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	46.66	31.55	5.91	35.48	48.64	74.00	-25.36	Horizontal
7311.00	45.34	36.46	7.14	35.28	53.66	74.00	-20.34	Horizontal
9748.00	44.50	38.43	9.06	35.75	56.24	74.00	-17.76	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 41/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.82	31.55	5.91	35.48	39.80	54.00	-14.20	Vertical
7311.00	35.96	36.46	7.14	35.28	44.28	54.00	-9.72	Vertical
9748.00	34.79	38.43	9.06	35.75	46.53	54.00	-7.47	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	36.26	31.55	5.91	35.48	38.24	54.00	-15.76	Horizontal
7311.00	35.24	36.46	7.14	35.28	43.56	54.00	-10.44	Horizontal
9748.00	34.40	38.43	9.06	35.75	46.14	54.00	-7.86	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Tes	t 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	48.00	31.57	5.93	35.48	50.02	74.00	-23.98	Vertical
7356.00	46.17	36.45	7.14	35.26	54.50	74.00	-19.50	Vertical
9808.00	45.92	38.62	9.08	35.76	57.86	74.00	-16.14	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	46.66	31.57	5.93	35.48	48.68	74.00	-25.32	Horizontal
7356.00	46.57	36.45	7.14	35.26	54.90	74.00	-19.10	Horizontal
9808.00	44.65	38.62	9.08	35.76	56.59	74.00	-17.41	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		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
4904.00	37.30	31.57	5.93	35.48	39.32	54.00	-14.68	Vertical
7356.00	35.97	36.45	7.14	35.26	44.30	54.00	-9.70	Vertical
9808.00	35.52	38.62	9.08	35.76	47.46	54.00	-6.54	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	36.36	31.57	5.93	35.48	38.38	54.00	-15.62	Horizontal
7356.00	36.37	36.45	7.14	35.26	44.70	54.00	-9.30	Horizontal
9808.00	34.35	38.62	9.08	35.76	46.29	54.00	-7.71	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.