

Global United Technology Services Co., Ltd.

Report No.: GTSE15100196101

FCC Report (WIFI)

Applicant: Kobian Canada Inc.,

Address of Applicant: 560 Denison Street, Unit#5, Markham, Ontario, L3R 2M8,

Canada

Equipment Under Test (EUT)

Product Name: 10DTB42

Model No.: 10DTB42

Trade Mark: Hipstreet

FCC ID: YH5-10DTB42

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: December 01, 2015

Date of Test: December 02-15, 2015

Date of report issued: December 16, 2015

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.



2 Version

Version No.	Date	Description
00	December 16, 2015	Original

Prepared By:	Edward.Pan	Date:	December 16, 2015
	Project Engineer		
Check By:	hank. yan	Date:	December 16, 2015
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
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.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)			
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)			
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)			
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 Client Information

Applicant:	Kobian Canada Inc.,		
Address of Applicant:	560 Denison Street, Unit#5, Markham, Ontario, L3R 2M8, Canada		
Manufacturer/ Factory:	Kobian Canada Inc.,		
Address of Manufacturer/ Factory:	560 Denison Street, Unit#5, Markham, Ontario, L3R 2M8, Canada		

5.2 General Description of EUT

Product Name:	10DTB42		
Model No.:	10DTB42		
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz		
	802.11n(HT40): 2422MHz~2452MHz		
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11		
	802.11n(HT40): 7		
Channel separation:	5MHz		
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)		
	802.11g/802.11n(H20)/802.11n(H40):		
	Orthogonal Frequency Division Multiplexing (OFDM)		
Antenna Type:	Integral antenna		
Antenna gain:	2.0dBi(declare by Applicant)		
Power supply:	Adapter:		
	Model:GT-WCBU05000200-303		
	Input:AC100-240V~50/60Hz, 0.4A		
	Output:DC 5V 2000mA		
	Or		
	DC 3.7V 4000mAh Li-ion Battery		



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:

Test channel	Frequency (MHz)				
rest 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: During the test, the dutycycle >98%, 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 functi, on 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

N/A:

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



5.5 **Test Facility**

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, 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: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960

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



6 Test Instruments list

Rad	Radiated Emission:							
Item	m 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. 27 2015	Mar. 26 2016		
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. 3 2015	Dec. 2 2016		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		
17	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016		
18	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016		

Con	ducted 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. 07 2015	Sep. 06 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016
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 07 2015	July 06 2016				

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



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

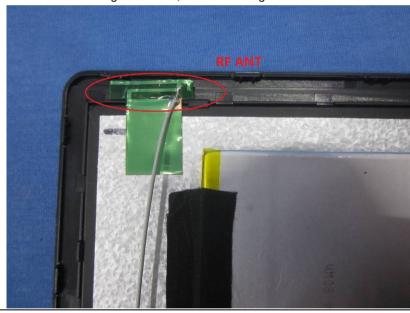
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 2dBi





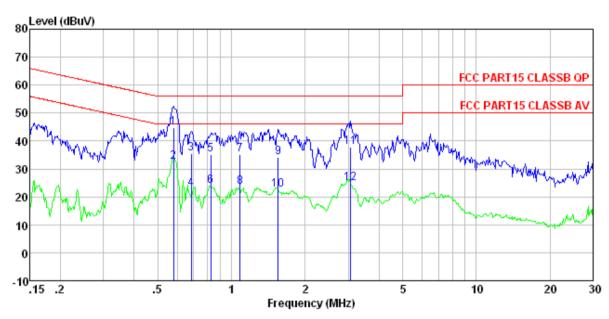
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	veep time=auto					
Limit:		Limit (d	lBuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithm	n of the frequency.					
Test setup:	Reference Plane						
Total	AUX Equipment E.U.T Equipment Under Test LISN: 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 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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 C63.10:2013 on conducted measurement. 						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



Measurement data

Line:



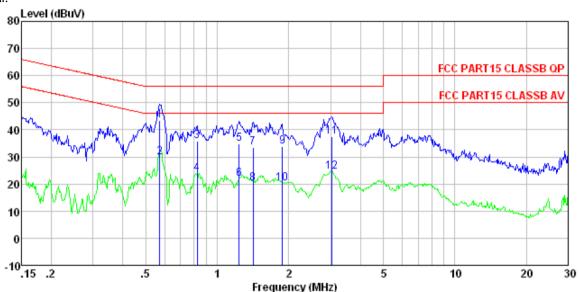
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1961RF Test mode : Wifi mode Test Engineer: Rong

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.579 0.579	44. 43 32. 17	44. 68 32. 42	0.13 0.13	0.12 0.12		-11.32 -13.58	QP Average
2 3 4	0.686 0.686	35. 19 22. 64	35. 46 22. 91	0.14	0.13 0.13	56.00	-20.54	
5 6	0. 822 0. 822	34. 84 23. 56	35. 11 23. 83	0.14	0.13 0.13	56.00	-20.89	
7	1.082	34.92	35.18	0.13	0.13	56.00	-20.82	QP
9	1.082 1.552	23.30 33.84	23. 56 34. 10	0.13 0.12	0.13 0.14	56.00	-21.90	
10 11	1.552 3.074	22. 37 37. 37	22. 63 37. 68	0.12 0.16	0.14 0.15	56.00	-18.32	•
12	3.074	24.72	25.03	0.16	0.15	46.00	-20.97	Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1961RF Test mode : Wifi mode Test Engineer: Rong

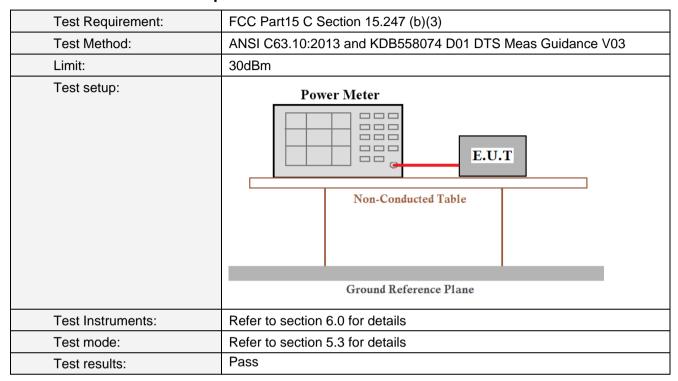
	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1 2 3 4 5	0. 573 0. 573 0. 822 0. 822 1. 236	43. 22 29. 70 35. 50 23. 58 34. 71	43. 41 29. 89 35. 70 23. 78 34. 92	0.07 0.07 0.07 0.07 0.08	0.12 0.12 0.13 0.13 0.13	46.00 56.00 46.00	-20.30	Average QP Average
6 7	1.236 1.418	21.69 33.20	21. 90 33. 42	0.08 0.09	0.13 0.13	56.00	-22.58	-
8 9	1.418 1.878	19.87 33.51	20. 09 33. 74	0.09 0.09	0.13 0.14	56.00	-22.26	
10 11 12	1. 878 3. 025 3. 025	19.88 37.21 24.22	20.11 37.47 24.48	0.09 0.11 0.11	0.14 0.15 0.15	56.00	-18.53	Average QP Average
12	0.020	27. 22	44.40	0.11	0.10	40.00	21.02	vacrage

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
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	18.76	16.61	16.46	15.30		Pass
Middle	17.65	18.35	18.54	18.13	30.00	
Highest	18.63	16.66	16.86	14.86		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 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		

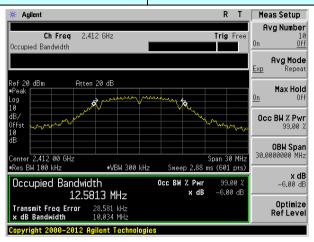
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Nesuit
Lowest	10.034	15.124	15.098	35.175		Pass
Middle	9.131	15.099	16.921	35.338	>500	
Highest	9.080	15.208	15.688	35.143		

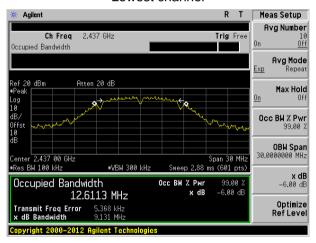
Test plot as follows:



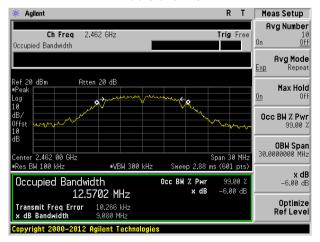
Test mode: 802.11b



Lowest channel



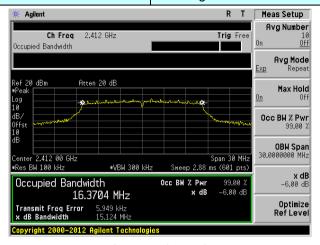
Middle channel



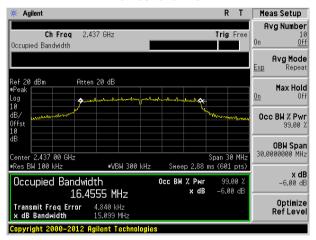
Highest channel



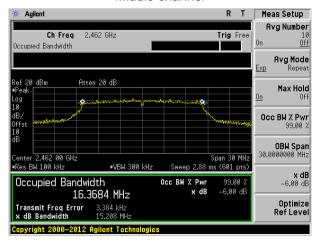
Test mode: 802.11g



Lowest channel



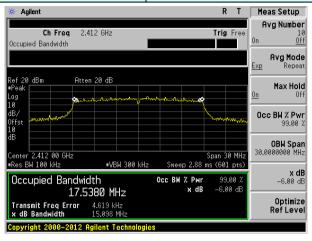
Middle channel



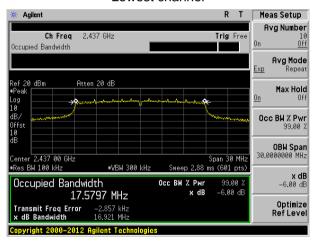
Highest channel



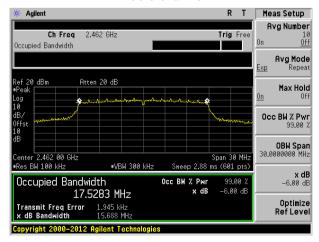
Test mode: 802.11n(HT20)



Lowest channel



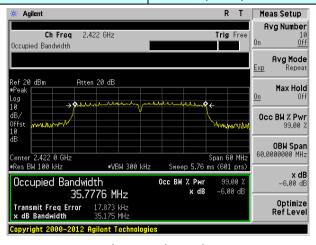
Middle channel



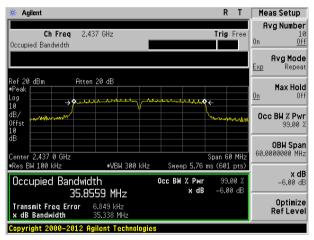
Highest channel



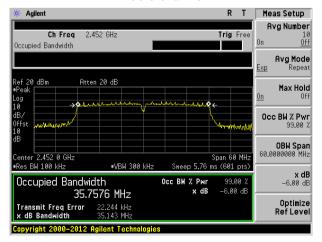
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
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		

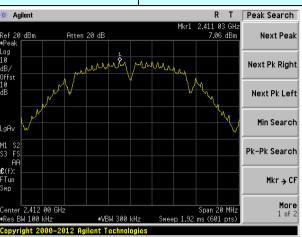
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3km2)	iveani	
Lowest	7.06	3.08	3.23	-1.56		Pass	
Middle	7.17	5.20	4.23	1.25	8.00		
Highest	7.74	3.15	3.26	-2.00			

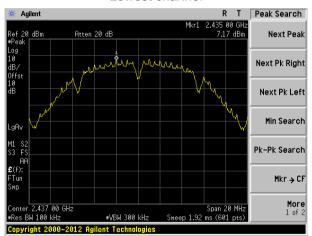


Test plot as follows:

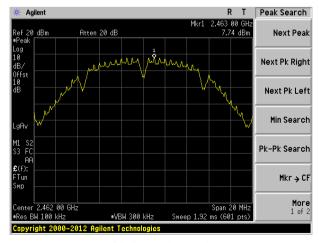
Test mode: 802.11b



Lowest channel



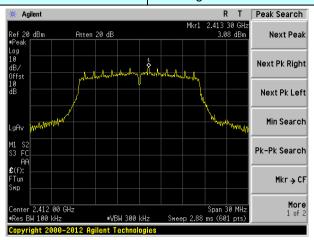
Middle channel



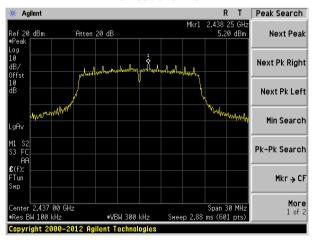
Highest channel



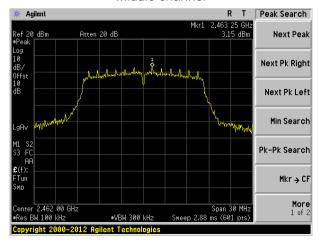
Test mode: 802.11g



Lowest channel



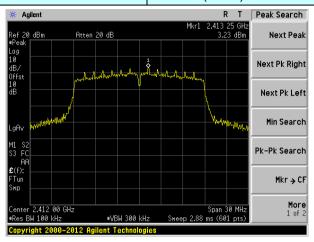
Middle channel



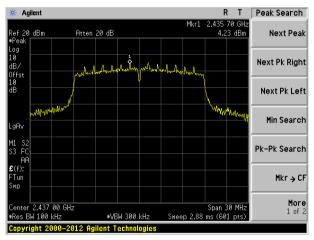
Highest channel



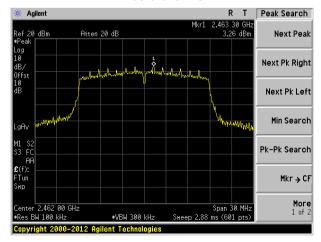
Test mode: 802.11n(HT20)



Lowest channel



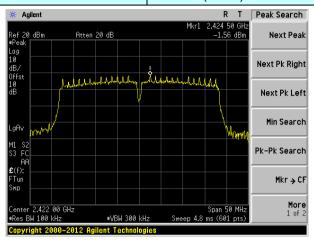
Middle channel



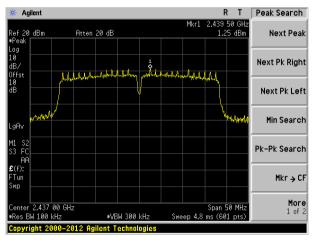
Highest channel



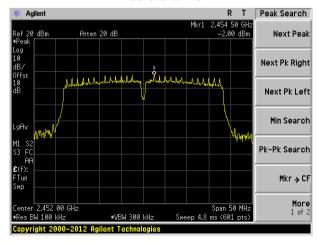
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



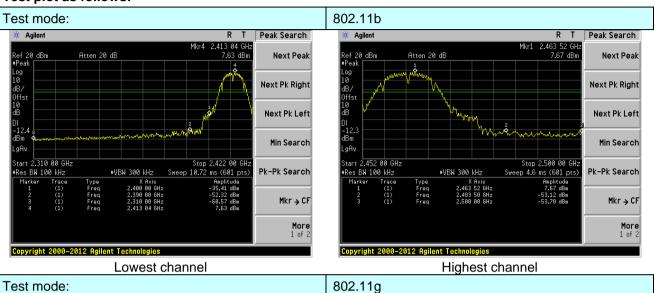
7.6 Band edges

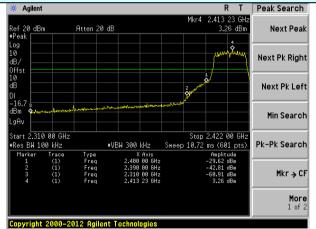
7.6.1 Conducted Emission Method

Toot Poquiroment:	ECC Part15 C Section 15 247 (d)					
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 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					

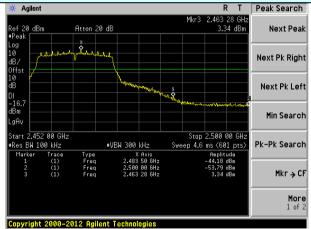


Test plot as follows:



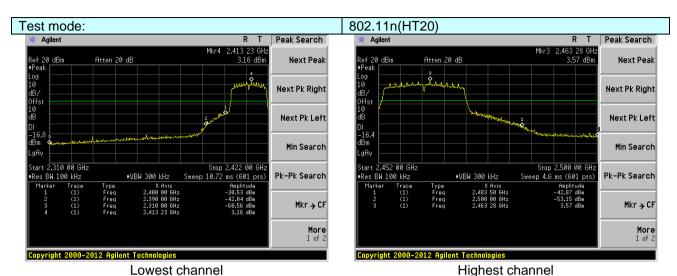


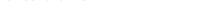
Lowest channel

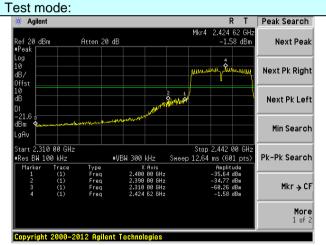


Highest channel

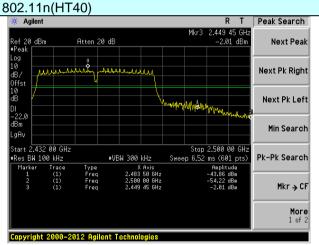








Lowest channel



Highest channel

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7.6.2 Radiated Emission Method

7.6.2 Radiated Emission W								
Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:20	ANSI C63.10:2013						
Test Frequency Range:	All of the restric	All of the restrict bands were tested, only the worst band's (2310MHz to						
	2500MHz) data	2500MHz) data was showed.						
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Poak 1MHz 3MHz Poak						
	Above IGHZ	RMS	1MHz	3MHz	Average			
Limit:	Freque	ncy L	_imit (dBuV/	/m @3m)	Value			
	Above 1	CU-	54.0	0	Average			
	Above 1	GHZ	74.0	0	Peak			
Test setup:	EUT 3m <	Horn Antenna Spectrum Analyzer Table						
Test Procedure:	Table v v v v v v v v v v v v v v v v v v v							
Test Instruments:	Refer to section	ode is recorded 6.0 for details						
Test mode:	Refer to section	5.3 for details						
Test results:	Pass							

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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:		802.1	1b	Te	est 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)	I I imit	Polarization
2390.00	51.85	27.59	5.38	34.01	50.81	74.00	-23.19	Horizontal
2400.00	60.93	27.58	5.39	34.01	59.89	74.00	-14.11	Horizontal
2390.00	53.54	27.59	5.38	34.01	52.50	74.00	-21.50	Vertical
2400.00	62.78	27.58	5.39	34.01	61.74	74.00	-12.26	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)	I I imit	Polarization
2390.00	38.55	27.59	5.38	34.01	37.51	54.00	-16.49	Horizontal
2400.00	46.87	27.58	5.39	34.01	45.83	54.00	-8.17	Horizontal
2390.00	40.39	27.59	5.38	34.01	39.35	54.00	-14.65	Vertical
2400.00	48.01	27.58	5.39	34.01	46.97	54.00	-7.03	Vertical
Test mode:		802.1	1b	Te	est 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)	I I imit	Polarization

Average value:

2483.50

2500.00

2483.50

2500.00

52.59

48.35

54.89

50.90

27.53

27.55

27.53

27.55

5.47

5.49

5.47

5.49

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.95	27.53	5.47	33.92	38.03	54.00	-15.97	Horizontal
2500.00	35.01	27.55	5.49	29.93	38.12	54.00	-15.88	Horizontal
2483.50	40.91	27.53	5.47	33.92	39.99	54.00	-14.01	Vertical
2500.00	36.90	27.55	5.49	29.93	40.01	54.00	-13.99	Vertical

33.92

29.93

33.92

29.93

51.67

51.46

53.97

54.01

74.00

74.00

74.00

74.00

-22.33

-22.54

-20.03

-19.99

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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Horizontal

Horizontal Vertical

Vertical



802.11g

Test mode:

Report No.: GTSE15100196101

Lowest

Daalassalssa								
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	50.41	27.59	5.38	34.01	49.37	74.00	-24.63	Horizontal
2400.00	59.01	27.58	5.39	34.01	57.97	74.00	-16.03	Horizontal
2390.00	52.01	27.59	5.38	34.01	50.97	74.00	-23.03	Vertical
2400.00	60.47	27.58	5.39	34.01	59.43	74.00	-14.57	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	37.53	27.59	5.38	34.01	36.49	54.00	-17.51	Horizontal
2400.00	45.69	27.58	5.39	34.01	44.65	54.00	-9.35	Horizontal
2390.00	39.25	27.59	5.38	34.01	38.21	54.00	-15.79	Vertical
2400.00	46.72	27.58	5.39	34.01	45.68	54.00	-8.32	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	50.54	27.53	5.47	33.92	49.62	74.00	-24.38	Horizontal
2500.00	46.76	27 55						
	40.70	27.55	5.49	29.93	49.87	74.00	-24.13	Horizontal
2483.50	52.54	27.53	5.49 5.47	29.93 33.92	49.87 51.62	74.00 74.00	-24.13 -22.38	Horizontal Vertical
2483.50	52.54 49.04	27.53	5.47	33.92	51.62	74.00	-22.38	Vertical
2483.50 2500.00	52.54 49.04	27.53	5.47	33.92	51.62	74.00	-22.38	Vertical
2483.50 2500.00 Average va Frequency	52.54 49.04 lue: Read Level	27.53 27.55 Antenna Factor	5.47 5.49 Cable Loss	33.92 29.93 Preamp Factor	51.62 52.15 Level	74.00 74.00 Limit Line	-22.38 -21.85 Over Limit	Vertical Vertical
2483.50 2500.00 Average va Frequency (MHz)	52.54 49.04 Iue: Read Level (dBuV)	27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 Cable Loss (dB)	33.92 29.93 Preamp Factor (dB)	51.62 52.15 Level (dBuV/m)	74.00 74.00 Limit Line (dBuV/m)	-22.38 -21.85 Over Limit (dB)	Vertical Vertical Polarization
2483.50 2500.00 Average va Frequency (MHz) 2483.50	52.54 49.04 Iue: Read Level (dBuV) 37.71	27.53 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 Cable Loss (dB) 5.47	33.92 29.93 Preamp Factor (dB) 33.92	51.62 52.15 Level (dBuV/m) 36.79	74.00 74.00 Limit Line (dBuV/m) 54.00	-22.38 -21.85 Over Limit (dB) -17.21	Vertical Vertical Polarization Horizontal

Test channel:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen 518102

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.

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Test mode:

Report No.: GTSE15100196101

Lowest

rest mode.		002.1	111(11120)	. 0	ot charmer.	-	OWCSL	
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	50.57	27.59	5.38	34.01	49.53	74.00	-24.47	Horizontal
2400.00	59.22	27.58	5.39	34.01	58.18	74.00	-15.82	Horizontal
2390.00	52.18	27.59	5.38	34.01	51.14	74.00	-22.86	Vertical
2400.00	60.73	27.58	5.39	34.01	59.69	74.00	-14.31	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	37.64	27.59	5.38	34.01	36.60	54.00	-17.40	Horizontal
2400.00	45.82	27.58	5.39	34.01	44.78	54.00	-9.22	Horizontal
2390.00	39.38	27.59	5.38	34.01	38.34	54.00	-15.66	Vertical
2400.00	46.86	27.58	5.39	34.01	45.82	54.00	-8.18	Vertical
Test mode:		802.1	1n(HT20)	Te	st channel:	H	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	50.77	27.53	5.47	33.92	49.85	74.00	-24.15	Horizontal
2500.00	46.94	27.55	5.49	29.93	50.05	74.00	-23.95	Horizontal
2483.50	52.81	27.53	5.47	33.92	51.89	74.00	-22.11	Vertical
2500.00	49.25	27.55	5.49	29.93	52.36	74.00	-21.64	Vertical
Average va	lue:	ī		ı	ī			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	37.85	27.53	5.47	33.92	36.93	54.00	-17.07	Horizontal
2500.00	34.15	27.55	5.49	29.93	37.26	54.00	-16.74	Horizontal
2483.50	39.70	27.53	5.47	33.92	38.78	54.00	-15.22	Vertical
2500.00	35.99	27.55	5.49	29.93	39.10	54.00	-14.90	Vertical
Remark:								

Test channel:

802.11n(HT20)

- 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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Test mode:

Peak value:

Report No.: GTSE15100196101

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	49.72	27.59	5.38	34.01	48.68	74.00	-25.32	Horizontal
2400.00	58.08	27.58	5.39	34.01	57.04	74.00	-16.96	Horizontal
2390.00	51.26	27.59	5.38	34.01	50.22	74.00	-23.78	Vertical
2400.00	59.36	27.58	5.39	34.01	58.32	74.00	-15.68	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	37.03	27.59	5.38	34.01	35.99	54.00	-18.01	Horizontal
2400.00	45.12	27.58	5.39	34.01	44.08	54.00	-9.92	Horizontal
2390.00	38.70	27.59	5.38	34.01	37.66	54.00	-16.34	Vertical
2400.00	46.10	27.58	5.39	34.01	45.06	54.00	-8.94	Vertical
					•			
Test mode:		802.1	1n(HT40)	Tes	st channel:	H	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	49.54	27.53	5.47	33.92	48.62	74.00	-25.38	Horizontal
2500.00	45.99	27.55	5.49	29.93	49.10	74.00	-24.90	Horizontal
2483.50	51.41	27.53	5.47	33.92	50.49	74.00	-23.51	Vertical
2500.00	48.14	27.55	5.49	29.93	51.25	74.00	-22.75	Vertical
Average va	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	37.11	27.53	5.47	33.92	36.19	54.00	-17.81	Horizontal
2500.00	33.58	27.55	5.49	29.93	36.69	54.00	-17.31	Horizontal
2483.50	38.88	27.53	5.47	33.92	37.96	54.00	-16.04	Vertical
2500.00	35.38	27.55	5.49	29.93	38.49	54.00	-15.51	Vertical
Remark:								

Test channel:

802.11n(HT40)

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Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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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7.7 Spurious Emission

7.7.1 Conducted Emission Method

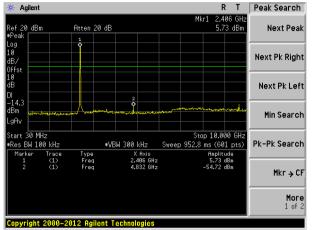
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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

Lowest channel

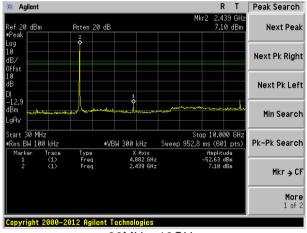


30MHz~10GHz

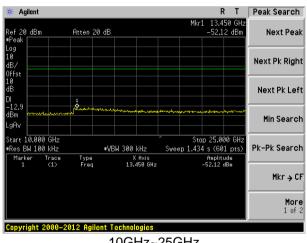
R T Peak Search Agilent ef 20 dBm Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz Pk-Pk Search Res BW 100 kHz Type Freq Amplitude -52.39 dBm Trace (1) X Axis 13.225 GHz Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

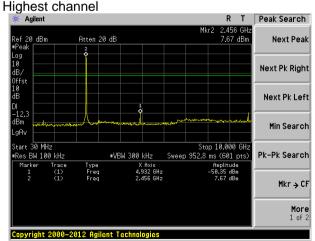
Middle channel



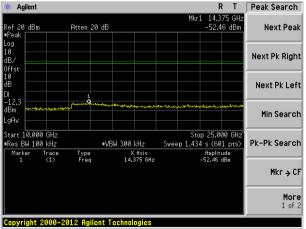
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

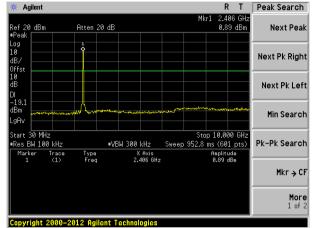
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Test mode:

802.11g

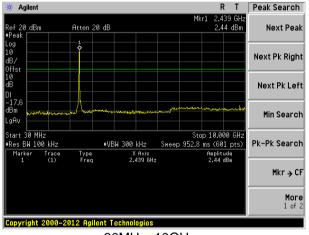
Lowest channel



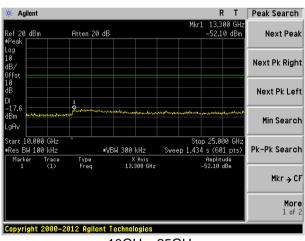
30MHz~10GHz

10GHz~25GHz

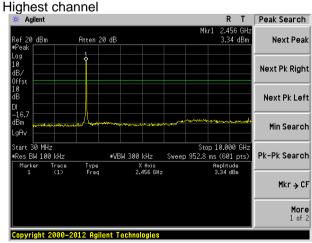
Middle channel



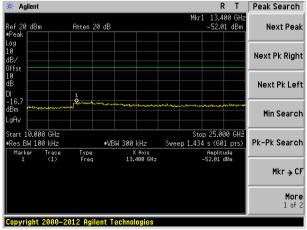
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

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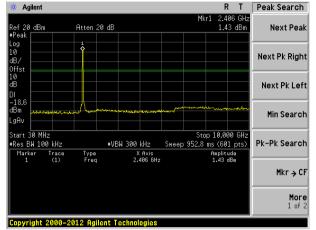
R T Peak Search

Test mode:

802.11n(HT20)

🔆 Agilent

Lowest channel

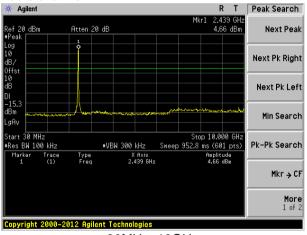


30MHz~10GHz

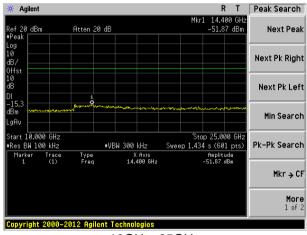
10GHz~25GHz

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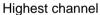
Middle channel

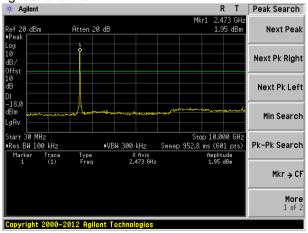


30MHz~10GHz

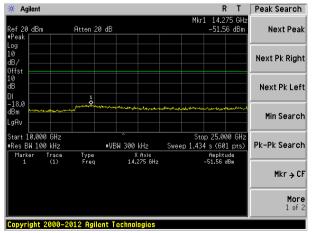


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

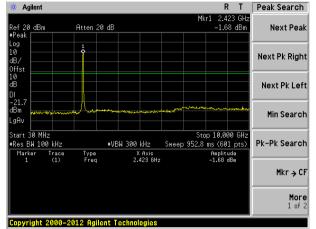
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Test mode:

802.11n(HT40)

Lowest channel

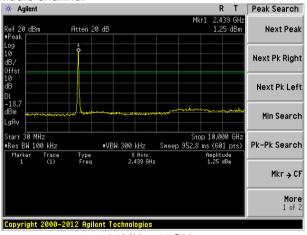


30MHz~10GHz

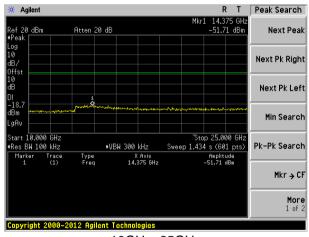
* Agilent R T Peak Search 13.375 GHz -52.04 dBm Atten 20 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search Type Frea X Axis 13.375 GHz Amplitude -52.04 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

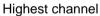
Middle channel

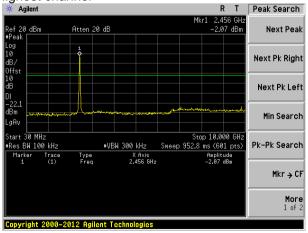


30MHz~10GHz

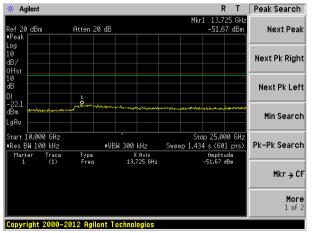


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

	<u>.</u>											
Measurement Dis	stance: 3m	T										
Frequency		T		30MHz to 25GHz								
	Detector	Measurement Distance: 3m Frequency Detector RBW VBW Value										
30MHz-1GHz												
	Quasi-peak	300KHz	Quasi-peak									
Above 1CHz	Peak	1MHz	3MHz	Peak								
Above 1GHz	Above 1GHz RMS 1MHz 3MF											
Frequen	су	Limit (dBuV	/m @3m)	Value								
30MHz-88	MHz	40.0	0	Quasi-peak								
88MHz-216	6MHz	43.5	0	Quasi-peak								
216MHz-96	216MHz-960MHz 46.00											
960MHz-1	960MHz-1GHz 54.00											
Above 40	54.00 Average											
Above 10	∍HZ —	74.0	0	Peak								
Turn 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna											
	30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 10 Below 1GHz Ground Plane Above 1GHz	30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Ground Plane Above 1GHz Above 1GHz	30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz 74.0 Below 1GHz Ground Plane Above 1GHz Above 1GHz	30MHz-88MHz 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz Antenna Tower Search Antenna RF T est Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower								

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Test Procedure:	 The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	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.
	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 Y 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

- BCIOW I	· · · · · · · · · · · · · · · · · · ·							
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
66.50	44.02	12.02	0.91	29.88	27.07	40.00	-12.93	Vertical
86.50	49.45	12.89	1.08	29.76	33.66	40.00	-6.34	Vertical
143.83	52.12	10.22	1.53	29.44	34.43	43.50	-9.07	Vertical
180.65	50.67	11.76	1.74	29.27	34.90	43.50	-8.60	Vertical
287.99	53.85	14.84	2.31	29.92	41.08	46.00	-4.92	Vertical
383.93	48.94	16.68	2.78	29.57	38.83	46.00	-7.17	Vertical
52.76	46.75	15.12	0.80	29.98	32.69	40.00	-7.31	Horizontal
153.74	53.76	10.42	1.59	29.39	36.38	43.50	-7.12	Horizontal
239.99	53.03	14.09	2.07	29.56	39.63	46.00	-6.37	Horizontal
287.99	47.21	14.84	2.31	29.92	34.44	46.00	-11.56	Horizontal
467.24	42.75	17.77	3.17	29.36	34.33	46.00	-11.67	Horizontal
798.98	36.29	22.06	4.45	29.20	33.60	46.00	-12.40	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	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	40.89	31.79	8.62	32.10	49.20	74.00	-24.80	Vertical
7236.00	34.60	36.19	11.68	31.97	50.50	74.00	-23.50	Vertical
9648.00	32.98	38.07	14.16	31.56	53.65	74.00	-20.35	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.47	31.79	8.62	32.10	47.78	74.00	-26.22	Horizontal
7236.00	34.30	36.19	11.68	31.97	50.20	74.00	-23.80	Horizontal
9648.00	32.54	38.07	14.16	31.56	53.21	74.00	-20.79	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
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	29.93	31.79	8.62	32.10	38.24	54.00	-15.76	Vertical
7236.00	23.45	36.19	11.68	31.97	39.35	54.00	-14.65	Vertical
9648.00	23.32	38.07	14.16	31.56	43.99	54.00	-10.01	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.97	31.79	8.62	32.10	37.28	54.00	-16.72	Horizontal
7236.00	22.87	36.19	11.68	31.97	38.77	54.00	-15.23	Horizontal
9648.00	22.28	38.07	14.16	31.56	42.95	54.00	-11.05	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		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	39.84	31.85	8.66	32.12	48.23	74.00	-25.77	Vertical
7311.00	34.60	36.37	11.71	31.91	50.77	74.00	-23.23	Vertical
9748.00	33.96	38.27	14.25	31.56	54.92	74.00	-19.08	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.25	31.85	8.66	32.12	48.64	74.00	-25.36	Horizontal
7311.00	33.20	36.37	11.71	31.91	49.37	74.00	-24.63	Horizontal
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val								
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	30.66	31.85	8.66	32.12	39.05	54.00	-14.95	Vertical
7311.00	22.91	36.37	11.71	31.91	39.08	54.00	-14.92	Vertical
9748.00	23.20	38.27	14.25	31.56	44.16	54.00	-9.84	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.33	31.85	8.66	32.12	38.72	54.00	-15.28	Horizontal
7311.00	22.28	36.37	11.71	31.91	38.45	54.00	-15.55	Horizontal
9748.00	23.53	38.27	14.25	31.56	44.49	54.00	-9.51	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.



Test mode:		802.11b		Test	channel:	High	est	
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	45.73	31.90	8.70	32.15	54.18	74.00	-19.82	Vertical
7386.00	35.50	36.49	11.76	31.83	51.92	74.00	-22.08	Vertical
9848.00	37.41	38.62	14.31	31.77	58.57	74.00	-15.43	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.90	31.90	8.70	32.15	53.35	74.00	-20.65	Horizontal
7386.00	34.34	36.49	11.76	31.83	50.76	74.00	-23.24	Horizontal
9848.00	33.55	38.62	14.31	31.77	54.71	74.00	-19.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
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	36.58	31.90	8.70	32.15	45.03	54.00	-8.97	Vertical
7386.00	25.40	36.49	11.76	31.83	41.82	54.00	-12.18	Vertical
9848.00	25.90	38.62	14.31	31.77	47.06	54.00	-6.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.22	31.90	8.70	32.15	43.67	54.00	-10.33	Horizontal
7386.00	23.71	36.49	11.76	31.83	40.13	54.00	-13.87	Horizontal
9848.00	22.80	38.62	14.31	31.77	43.96	54.00	-10.04	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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.



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	39.76	31.79	8.62	32.10	48.07	74.00	-25.93	Vertical
7236.00	33.88	36.19	11.68	31.97	49.78	74.00	-24.22	Vertical
9648.00	32.47	38.07	14.16	31.56	53.14	74.00	-20.86	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.51	31.79	8.62	32.10	46.82	74.00	-27.18	Horizontal
7236.00	33.67	36.19	11.68	31.97	49.57	74.00	-24.43	Horizontal
9648.00	32.07	38.07	14.16	31.56	52.74	74.00	-21.26	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
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	28.88	31.79	8.62	32.10	37.19	54.00	-16.81	Vertical
7236.00	22.76	36.19	11.68	31.97	38.66	54.00	-15.34	Vertical
9648.00	22.83	38.07	14.16	31.56	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.07	31.79	8.62	32.10	36.38	54.00	-17.62	Horizontal
7236.00	22.26	36.19	11.68	31.97	38.16	54.00	-15.84	Horizontal
9648.00	21.82	38.07	14.16	31.56	42.49	54.00	-11.51	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.



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	38.90	31.85	8.66	32.12	47.29	74.00	-26.71	Vertical
7311.00	34.01	36.37	11.71	31.91	50.18	74.00	-23.82	Vertical
9748.00	33.53	38.27	14.25	31.56	54.49	74.00	-19.51	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.45	31.85	8.66	32.12	47.84	74.00	-26.16	Horizontal
7311.00	32.68	36.37	11.71	31.91	48.85	74.00	-25.15	Horizontal
9748.00	33.44	38.27	14.25	31.56	54.40	74.00	-19.60	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.79	31.85	8.66	32.12	38.18	54.00	-15.82	Vertical
7311.00	22.33	36.37	11.71	31.91	38.50	54.00	-15.50	Vertical
9748.00	22.79	38.27	14.25	31.56	43.75	54.00	-10.25	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.59	31.85	8.66	32.12	37.98	54.00	-16.02	Horizontal
7311.00	21.78	36.37	11.71	31.91	37.95	54.00	-16.05	Horizontal
9748.00	23.16	38.27	14.25	31.56	44.12	54.00	-9.88	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.



Test mode:		802.11g		Test	channel:	Highe	est	
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	44.11	31.90	8.70	32.15	52.56	74.00	-21.44	Vertical
7386.00	34.48	36.49	11.76	31.83	50.90	74.00	-23.10	Vertical
9848.00	36.68	38.62	14.31	31.77	57.84	74.00	-16.16	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.54	31.90	8.70	32.15	51.99	74.00	-22.01	Horizontal
7386.00	33.44	36.49	11.76	31.83	49.86	74.00	-24.14	Horizontal
9848.00	32.88	38.62	14.31	31.77	54.04	74.00	-19.96	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	35.09	31.90	8.70	32.15	43.54	54.00	-10.46	Vertical
7386.00	24.41	36.49	11.76	31.83	40.83	54.00	-13.17	Vertical
9848.00	25.20	38.62	14.31	31.77	46.36	54.00	-7.64	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.94	31.90	8.70	32.15	42.39	54.00	-11.61	Horizontal
7386.00	22.84	36.49	11.76	31.83	39.26	54.00	-14.74	Horizontal
9848.00	22.15	38.62	14.31	31.77	43.31	54.00	-10.69	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*	_				54.00		Horizontal
17234.00	*					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:		802.11n(H	IT20)	Test	channel:	Lowe	est	
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	40.17	31.79	8.62	32.10	48.48	74.00	-25.52	Vertical
7236.00	34.14	36.19	11.68	31.97	50.04	74.00	-23.96	Vertical
9648.00	32.66	38.07	14.16	31.56	53.33	74.00	-20.67	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.86	31.79	8.62	32.10	47.17	74.00	-26.83	Horizontal
7236.00	33.90	36.19	11.68	31.97	49.80	74.00	-24.20	Horizontal
9648.00	32.24	38.07	14.16	31.56	52.91	74.00	-21.09	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	29.26	31.79	8.62	32.10	37.57	54.00	-16.43	Vertical
7236.00	23.01	36.19	11.68	31.97	38.91	54.00	-15.09	Vertical
9648.00	23.01	38.07	14.16	31.56	43.68	54.00	-10.32	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.40	31.79	8.62	32.10	36.71	54.00	-17.29	Horizontal
7236.00	22.48	36.19	11.68	31.97	38.38	54.00	-15.62	Horizontal
9648.00	21.99	38.07	14.16	31.56	42.66	54.00	-11.34	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.



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	39.25	31.85	8.66	32.12	47.64	74.00	-26.36	Vertical
7311.00	34.23	36.37	11.71	31.91	50.40	74.00	-23.60	Vertical
9748.00	33.69	38.27	14.25	31.56	54.65	74.00	-19.35	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.74	31.85	8.66	32.12	48.13	74.00	-25.87	Horizontal
7311.00	32.87	36.37	11.71	31.91	49.04	74.00	-24.96	Horizontal
9748.00	33.58	38.27	14.25	31.56	54.54	74.00	-19.46	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	30.11	31.85	8.66	32.12	38.50	54.00	-15.50	Vertical
7311.00	22.54	36.37	11.71	31.91	38.71	54.00	-15.29	Vertical
9748.00	22.94	38.27	14.25	31.56	43.90	54.00	-10.10	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.86	31.85	8.66	32.12	38.25	54.00	-15.75	Horizontal
7311.00	21.96	36.37	11.71	31.91	38.13	54.00	-15.87	Horizontal
9748.00	23.30	38.27	14.25	31.56	44.26	54.00	-9.74	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	IT20)	Test	channel:	High	est	
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	44.70	31.90	8.70	32.15	53.15	74.00	-20.85	Vertical
7386.00	34.85	36.49	11.76	31.83	51.27	74.00	-22.73	Vertical
9848.00	36.95	38.62	14.31	31.77	58.11	74.00	-15.89	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.04	31.90	8.70	32.15	52.49	74.00	-21.51	Horizontal
7386.00	33.77	36.49	11.76	31.83	50.19	74.00	-23.81	Horizontal
9848.00	33.13	38.62	14.31	31.77	54.29	74.00	-19.71	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
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	35.63	31.90	8.70	32.15	44.08	54.00	-9.92	Vertical
7386.00	24.77	36.49	11.76	31.83	41.19	54.00	-12.81	Vertical
9848.00	25.45	38.62	14.31	31.77	46.61	54.00	-7.39	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.41	31.90	8.70	32.15	42.86	54.00	-11.14	Horizontal
7386.00	23.16	36.49	11.76	31.83	39.58	54.00	-14.42	Horizontal
9848.00	22.39	38.62	14.31	31.77	43.55	54.00	-10.45	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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:		802.11n(HT40)			Test	channel:		Lowe	est	
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	39.01	31.81	8.63	32.11		47.34	74.00		-26.66	Vertical
7266.00	33.40	36.28	11.69	31.94		49.43	74.00		-24.57	Vertical
9688.00	32.13	38.13	14.21	31.52		52.95	74.00		-21.05	Vertical
12060.00	*						74.00			Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.88	31.81	8.63	32.11		46.21	74.	00	-27.79	Horizontal
7266.00	33.26	36.28	11.69	31.94		49.29	74.	00	-24.71	Horizontal
9688.00	31.76	38.13	14.21	31.52		52.58	74.	00	-21.42	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average val			ı							

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	28.19	31.81	8.63	32.11	36.52	54.00	-17.48	Vertical
7266.00	22.30	36.28	11.69	31.94	38.33	54.00	-15.67	Vertical
9688.00	22.50	38.13	14.21	31.52	43.32	54.00	-10.68	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.48	31.81	8.63	32.11	35.81	54.00	-18.19	Horizontal
7266.00	21.86	36.28	11.69	31.94	37.89	54.00	-16.11	Horizontal
9688.00	21.52	38.13	14.21	31.52	42.34	54.00	-11.66	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.



Test mode: 8		802.11n(H	802.11n(HT40)			Test channel:			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	38.29	31.85	8.66	32.12		46.68	74.00		-27.32	Vertical	
7311.00	33.62	36.37	11.71	31.91		49.79	74.00		-24.21	Vertical	
9748.00	33.25	38.27	14.25	31.56		54.21	74.00		-19.79	Vertical	
12185.00	*						74.00			Vertical	
14622.00	*						74.00			Vertical	
17059.00	*						74.0	00		Vertical	
4874.00	38.93	31.85	8.66	32	.12	47.32	74.0	00	-26.68	Horizontal	
7311.00	32.34	36.37	11.71	31	.91	48.51	74.0	00	-25.49	Horizontal	
9748.00	33.18	38.27	14.25	31	.56	54.14	74.0	00	-19.86	Horizontal	
12185.00	*						74.0	00		Horizontal	
14622.00	*						74.0	00		Horizontal	
17059.00	*						74.0	00		Horizontal	
Average val	ue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization	
4874.00	29.22	31.85	8.66	32	.12	37.61	54.0	00	-16.39	Vertical	
7311.00	21.96	36.37	11.71	31	.91	38.13	54.0	00	-15.87	Vertical	
9748.00	22.52	38.27	14.25	31	.56	43.48	54.0	00	-10.52	Vertical	
12185.00	*						54.0	00		Vertical	
14622.00	*						54.0	00		Vertical	
17059.00	*						54.0	00		Vertical	
4874.00	29.10	31.85	8.66	32	.12	37.49	54.0	00	-16.51	Horizontal	
7311.00	21.45	36.37	11.71	31	.91	37.62	54.0	00	-16.38	Horizontal	
9748.00	22.91	38.27	14.25	31	.56	43.87	54.0	00	-10.13	Horizontal	
12185.00	*						54.0	00		Horizontal	
14622.00	*						54.0	00		Horizontal	
17059.00	*						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.



Test mode: 80		802.11n(H	802.11n(HT40)		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	43.05	31.88	8.68	32.13	51.48	74.00	-22.52	Vertical	
7356.00	33.80	36.45	11.75	31.86	50.14	74.00	-23.86	Vertical	
9808.00	36.20	38.43	14.29	31.68	57.24	74.00	-16.76	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	42.64	31.88	8.68	32.13	51.07	74.00	-22.93	Horizontal	
7356.00	32.85	36.45	11.75	31.86	49.19	74.00	-24.81	Horizontal	
9808.00	32.43	38.43	14.29	31.68	53.47	74.00	-20.53	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	34.10	31.88	8.68	32.13	42.53	54.00	-11.47	Vertical	
7356.00	23.76	36.45	11.75	31.86	40.10	54.00	-13.90	Vertical	
9808.00	24.73	38.43	14.29	31.68	45.77	54.00	-8.23	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	33.10	31.88	8.68	32.13	41.53	54.00	-12.47	Horizontal	
7356.00	22.27	36.45	11.75	31.86	38.61	54.00	-15.39	Horizontal	
9808.00	21.72	38.43	14.29	31.68	42.76	54.00	-11.24	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*	_				54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

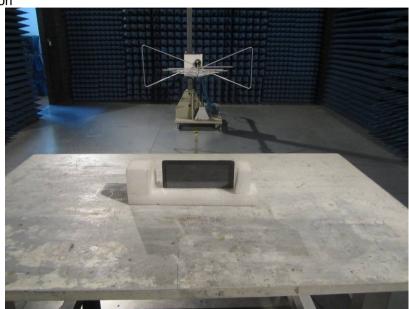
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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



8 Test Setup Photo

Radiated Emission







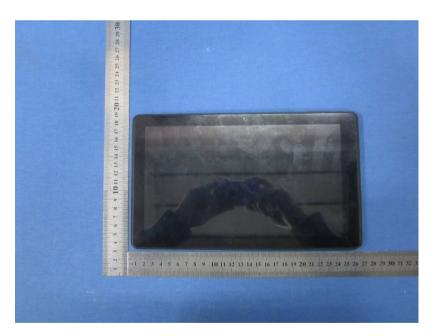
Conducted Emission





9 EUT Constructional Details



























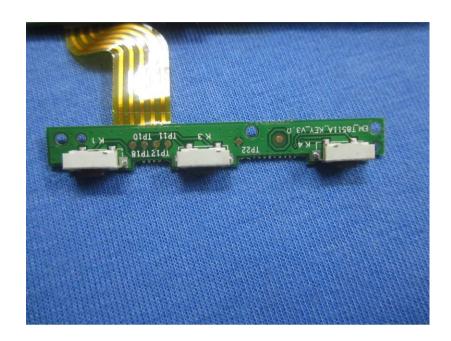


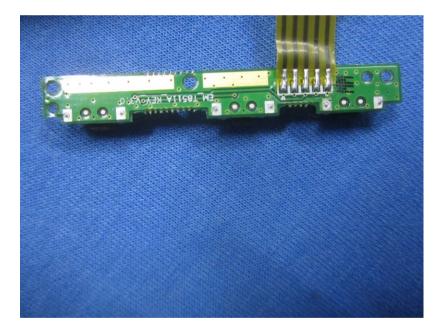


















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