

Global United Technology Services Co., Ltd.

Report No.: GTSE15040045601

FCC Report (WIFI)

Inspira Technologies LLC Applicant:

Address of Applicant: 1901 4th Ave Suite 210 San Diego California 92101 United

States

Equipment Under Test (EUT)

Product Name: TABLET PC

Model No.: A924

Trade Mark: Astro Tab

FCC ID: 2ABQ6-A924

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

Date of sample receipt: April 28, 2015

Date of Test: April 28-May 06, 2015

Date of report issued: May 06, 2015

Test Result: PASS *

Authorized Signature:



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

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



2 Version

Version No.	Date	Description
00	May 06, 2015	Original

Prepared By:	Sam. Gao	Date:	May 06, 2015	
	Project Engineer	_		_
Check By:	hank. yan	Date:	May 06, 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 C63.4:2014

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					
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:	Inspira Technologies LLC	
Address of Applicant:	1901 4th Ave Suite 210 San Diego California 92101 United States	
Manufacturer:	Inspira Technologies LLC	
Address of Manufacturer:	1901 4th Ave Suite 210 San Diego California 92101 United States	
Factory:	Shenzhen Iproda Technology Co., LTD.	
Address of Factory:	4F-5F, C Building, Gongming Tangwei Village wanfeng industrial zone, Guangming New District, Shenzhen, China	

5.2 General Description of EUT

Product Name:	TABLET PC
Model No.:	A924
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
	802.11(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:	2dBi (declare by Applicant)
Power supply:	Model No.:THX-050200KE
	Input: AC 100-240V, 50/60Hz, 0.65A MAX
	Output: DC 5V, 2A
	Or
	DC 3.7V Li-ion battery 4000mAh

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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:

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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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 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					
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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:

• 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: 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

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 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. 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. 4 2014	Dec. 3 2015			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015			
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	July 01 2014	June 30 2015			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015			
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016			
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015			
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015			

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 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
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 08 2014	July 07 2015			

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7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

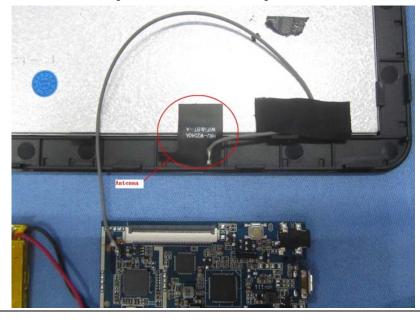
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 2dBi





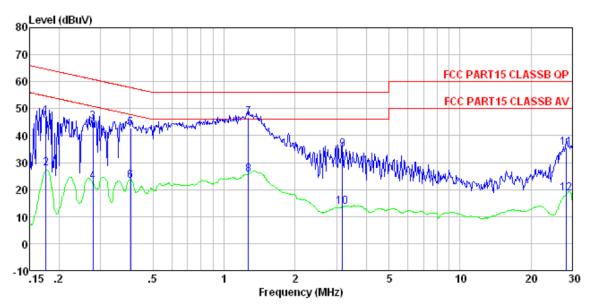
7.2 Conducted Emissions

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				
Limit:	Frequency range (MHz)	Limit (c Quasi-peak			
		Average			
	0.15-0.5 0.5-5	66 to 56* 56	56 to 46* 46		
	5-30	60	50		
	* Decreases with the logarithn		30		
Test setup:	Reference Plane	•			
	ver				
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 C63.10:2013 on conducted measurement. 				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				
	J.				



Measurement data

Line:



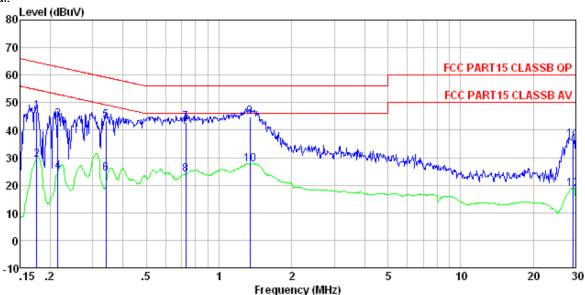
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0456RF Test mode : WiFi mode Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	d₿	dBuV	dBuV	dB	
1	0.176	46.99	0.14	0.13	47.26		-17.42	
2 3	0.176	27.55	0.14	0.13	27.82			Average
	0.279	44.88	0.11	0.10	45.09		-15.76	
4 5 6	0.279	22.57	0.11	0.10	22.78			Average
5	0.402	42.50	0.11	0.11	42.72		-15.09	
6	0.402	23.09	0.11	0.11	23.31	47.81	-24.50	Average
7	1.269	46.54	0.13	0.13	46.80	56.00	-9.20	QP
8	1.269	25.14	0.13	0.13	25.40	46.00	-20.60	Average
9	3.173	34.46	0.17	0.15	34.78	56.00	-21.22	QP
10	3.173	13.18	0.17	0.15	13.50	46.00	-32.50	Average
11	28.302	34.47	0.84	0.24	35.55		-24.45	
12	28.302	17.58	0.84	0.24	18.66			Äverage



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0456RF Test mode : WiFi mode Test Engineer: Qing

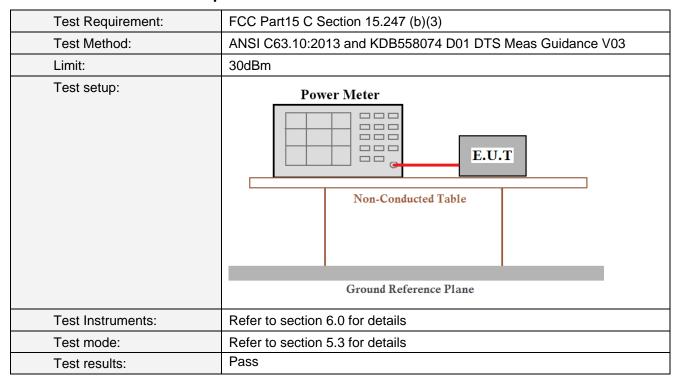
LISN Cable Limit Read Over Freq Level Factor Line Limit Remark Loss Level MHz dBuV dΒ dBuV dВ dBuV 0.17646.46 0.070.13 46.66 64.68 -18.02 QP 1 2 0.17628.99 0.070.13 29.19 54.68 -25.49 Average 3 0.21543.68 0.06 0.13 43.87 63.01 -19.14 QP 4 0.21553.01 -28.23 Average 24.59 0.060.13 24.78 5 0.341 43.47 0.10 43.63 59.18 -15.55 QP 0.066 49.18 -24.87 Average 0.341 24.150.06 0.10 24.31 7 0.727 42.46 42.66 56.00 -13.34 QP 0.070.13 8 0.72723.51 0.07 0.13 23.71 46.00 -22.29 Average 9 1.345 44.46 0.09 0.13 44.68 56.00 -11.32 QP 1.345 10 27.37 46.00 -18.41 Average 0.09 0.1327.59 0.71 60.00 -23.60 QP 29, 216 0.24 11 35.45 36.40 29.216 17.53 0.71 0.24 18.48 50.00 -31.52 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
- 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 Output Power (dBm)				Limit(dBm)	Result
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.69	7.48	7.26	7.24		
Middle	7.64	7.35	7.34	7.17	30.00	Pass
Highest	7.35	7.46	7.38	7.08		



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		

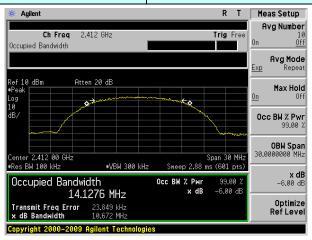
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littil(Ki iz)	Result
Lowest	10.672	16.488	17.749	36.401		
Middle	9.519	16.500	17.750	36.187	>500	Pass
Highest	10.618	16.536	17.747	36.367		

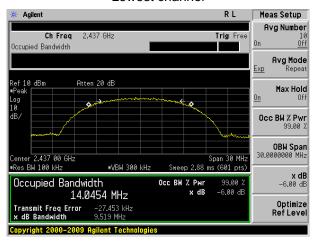
Test plot as follows:



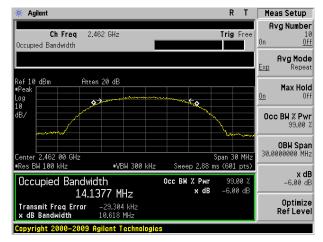
Test mode: 802.11b



Lowest channel



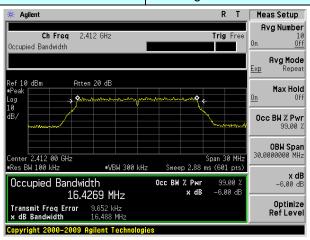
Middle channel



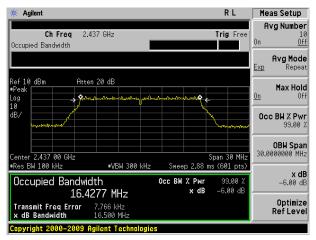
Highest channel



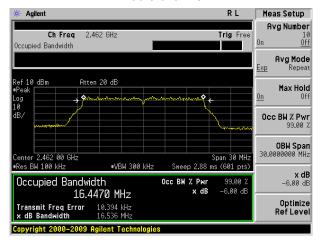
Test mode: 802.11g



Lowest channel



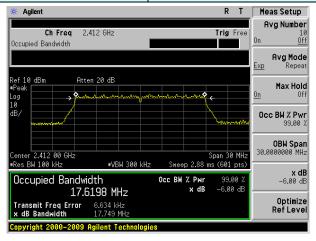
Middle channel



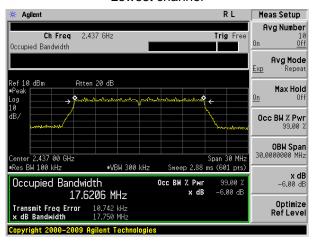
Highest channel



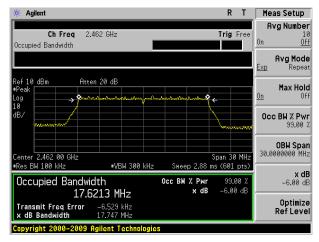
Test mode: 802.11n(HT20)



Lowest channel



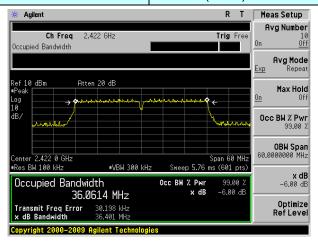
Middle channel



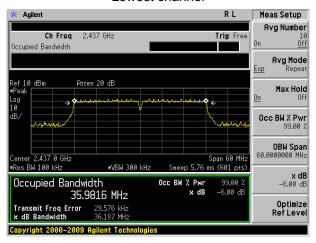
Highest channel



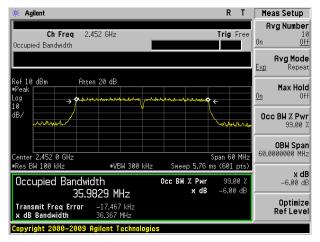
Test mode: 802.11n(HT40)



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		

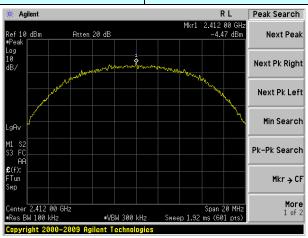
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
rest Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LITIIL(GBITI/3KI12)	Kesuit
Lowest	-4.47	-3.91	-3.98	-6.44		Pass
Middle	-4.66	-4.38	-4.37	-6.56	8.00	
Highest	-5.73	-4.52	-4.46	-6.72		

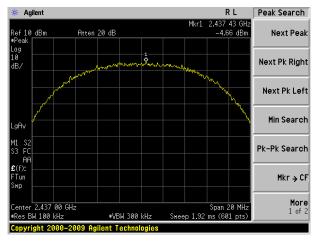


Test plot as follows:

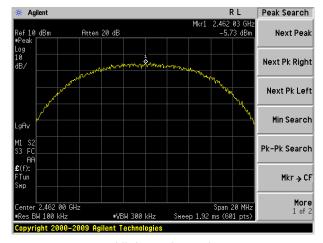
Test mode: 802.11b



Lowest channel



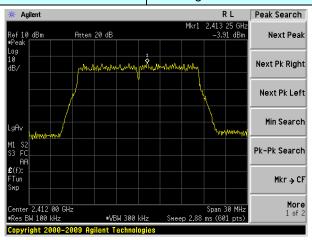
Middle channel



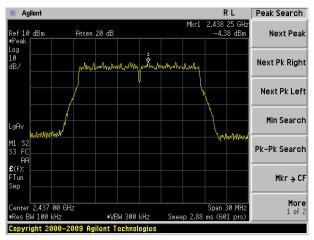
Highest channel



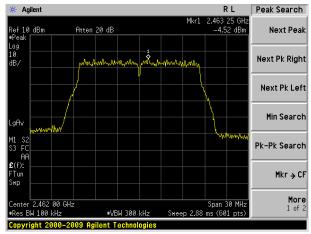
Test mode: 802.11g



Lowest channel



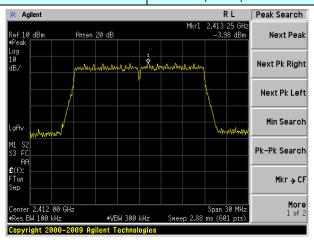
Middle channel



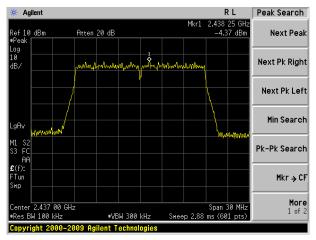
Highest channel



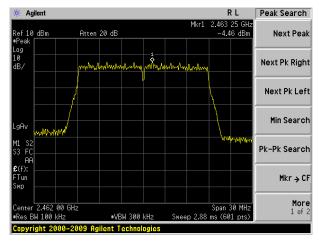
Test mode: 802.11n(HT20)



Lowest channel



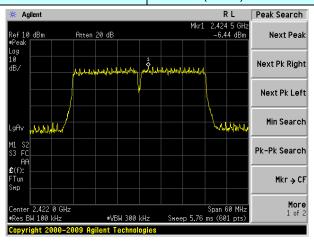
Middle channel



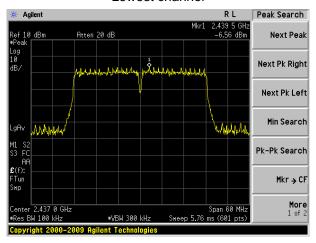
Highest channel



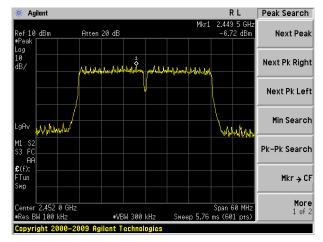
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



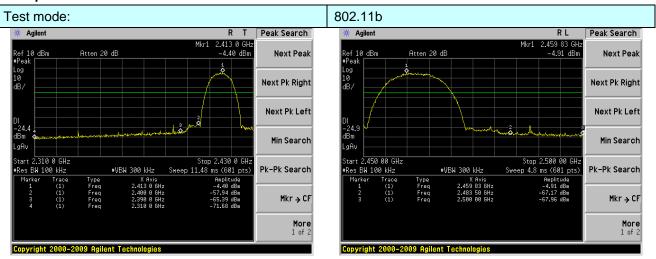
7.6 Band edges

7.6.1 Conducted Emission Method

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				



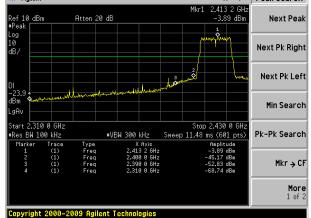
Test plot as follows:



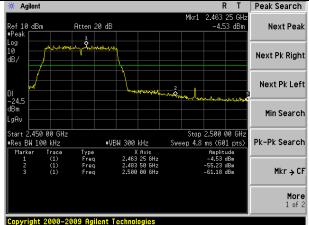
Lowest channel

Highest channel

Test mode: 802.11g ** Agillent R T Peak Search ** Agillent Ref 10 dBm Atten 20 dB -3.89 dBm Next Peak Ref 10 dBm



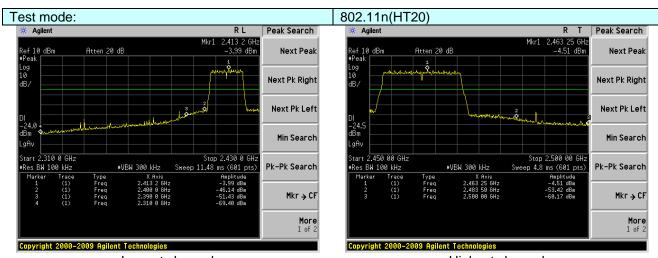
Lowest channel



Highest channel

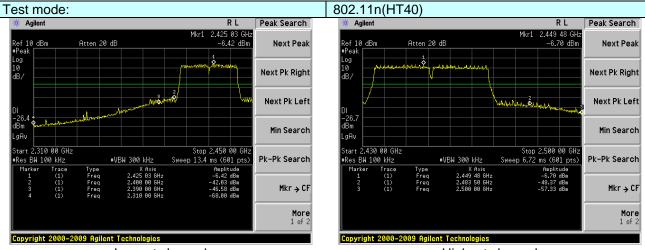
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Lowest channel

Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:		ANSI C63.10:2013					
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						
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
·		Peak	1MHz	3MHz	Peak		
	Above 1GHz	RMS	1MHz	3MHz	Average		
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value		
	Above 1	CU-7	54.0	0	Average		
	Above	GHZ	74.0	0	Peak		
Test setup:	Turn y 1.5m A	Horn Antenna Spectrum Analyzer					
Test Procedure:							
Test Instruments:	Refer to section						
Test mode:	Refer to section	5.3 for details					
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

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	51.41	27.59	5.38	34.01	50.37	74.00	-23.63	Horizontal
2400.00	60.34	27.58	5.39	34.01	59.30	74.00	-14.70	Horizontal
2390.00	53.07	27.59	5.38	34.01	52.03	74.00	-21.97	Vertical
2400.00	62.07	27.58	5.39	34.01	61.03	74.00	-12.97	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	38.24	27.59	5.38	34.01	37.20	54.00	-16.80	Horizontal
2400.00	46.51	27.58	5.39	34.01	45.47	54.00	-8.53	Horizontal
2390.00	40.04	27.59	5.38	34.01	39.00	54.00	-15.00	Vertical
2400.00	47.61	27.58	5.39	34.01	46.57	54.00	-7.43	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	51.96	27.53	5.47	33.92	51.04	74.00	-22.96	Horizontal
2500.00	47.86	27.55	5.49	29.93	50.97	74.00	-23.03	Horizontal
2483.50	54.17	27.53	5.47	33.92	53.25	74.00	-20.75	Vertical
2500.00	50.33	27.55	5.49	29.93	53.44	74.00	-20.56	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	38.57	27.53	5.47	33.92	37.65	54.00	-16.35	Horizontal
2500.00	34.71	27.55	5.49	29.93	37.82	54.00	-16.18	Horizontal
2483.50	40.49	27.53	5.47	33.92	39.57	54.00	-14.43	Vertical
2500.00	36.59	27.55	5.49	29.93	39.70	54.00	-14.30	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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Test mode:		802.1	1g	Tes	st channel:	L	_owest	
Peak value:	:	,						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.26	27.59	5.38	34.01	49.22	74.00	-24.78	Horizontal
2400.00	58.81	27.58	5.39	34.01	57.77	74.00	-16.23	Horizontal
2390.00	51.85	27.59	5.38	34.01	50.81	74.00	-23.19	Vertical
2400.00	60.23	27.58	5.39	34.01	59.19	74.00	-14.81	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	37.42	27.59	5.38	34.01	36.38	54.00	-17.62	Horizontal
2400.00	45.57	27.58	5.39	34.01	44.53	54.00	-9.47	Horizontal
2390.00	39.13	27.59	5.38	34.01	38.09	54.00	-15.91	Vertical
2400.00	46.59	27.58	5.39	34.01	45.55	54.00	-8.45	Vertical
Test mode:		802.1	1g	Tes	st channel:	F	Highest	
Peak value:	:	1		ı	T		T	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	50.32	27.53	5.47	33.92	49.40	74.00	-24.60	Horizontal
2500.00	46.60	27.55	5.49	29.93	49.71	74.00	-24.29	Horizontal
2483.50	52.30	27.53	5.47	33.92	51.38	74.00	-22.62	Vertical
2500.00	48.84	27.55	5.49	29.93	51.95	74.00	-22.05	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	37.58	27.53	5.47	33.92	36.66	54.00	-17.34	Horizontal
2500.00	33.94	27.55	5.49	29.93	37.05	54.00	-16.95	Horizontal
2300.00						i	1	
2483.50	39.40	27.53	5.47	33.92	38.48	54.00	-15.52	Vertical

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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.: GTSE15040045601

Lowest

			_	st Gharmer.	L		
			•				
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
50.11	27.59	5.38	34.01	49.07	74.00	-24.93	Horizontal
58.61	27.58	5.39	34.01	57.57	74.00	-16.43	Horizontal
51.69	27.59	5.38	34.01	50.65	74.00	-23.35	Vertical
59.99	27.58	5.39	34.01	58.95	74.00	-15.05	Vertical
lue:							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
37.32	27.59	5.38	34.01	36.28	54.00	-17.72	Horizontal
45.44	27.58	5.39	34.01	44.40	54.00	-9.60	Horizontal
39.01	27.59	5.38	34.01	37.97	54.00	-16.03	Vertical
46.45	27.58	5.39	34.01	45.41	54.00	-8.59	Vertical
	802.1	1n(HT20)	Tes	st channel:	H	Highest	
:	1			T		1	1
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
50.11	27.53	5.47	33.92	49.19	74.00	-24.81	Horizontal
46.43	27.55	5.49	29.93	49.54	74.00	-24.46	Horizontal
52.06	27.53	5.47	33.92	51.14	74.00	-22.86	Vertical
48.65	27.55	5.49	29.93	51.76	74.00	-22.24	Vertical
lue:							_
D 1	Antenna	Cable	Preamp	Laval	Limit Line	Over	
Read Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Level (dBuV/m)	(dBuV/m)	Limit (dB)	Polarization
Level	Factor	Loss	Factor				Polarization Horizontal
Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)	
Level (dBuV) 37.45	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 36.53	(dBuV/m) 54.00	(dB) -17.47	Horizontal
	Level (dBuV) 50.11 58.61 51.69 59.99 Iue: Read Level (dBuV) 37.32 45.44 39.01 46.45 Read Level (dBuV) 50.11 46.43 52.06 48.65	Level (dBuV) (dB/m) 50.11 27.59 58.61 27.58 51.69 27.59 59.99 27.58 Iue: Read Level (dBuV) (dB/m) 37.32 27.59 45.44 27.58 39.01 27.59 46.45 27.58 Read Level (dBuV) 27.59 46.45 27.58	Level (dBuV) Factor (dB/m) Loss (dB) 50.11 27.59 5.38 58.61 27.58 5.39 51.69 27.59 5.38 59.99 27.58 5.39 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) 37.32 27.59 5.38 45.44 27.58 5.39 39.01 27.59 5.38 46.45 27.58 5.39 802.11n(HT20) Example Read Level (dBw) Antenna Factor (dB/m) Cable Loss (dB) 50.11 27.53 5.47 46.43 27.55 5.49 52.06 27.53 5.47 48.65 27.55 5.49	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) 50.11 27.59 5.38 34.01 58.61 27.58 5.39 34.01 51.69 27.59 5.38 34.01 59.99 27.58 5.39 34.01 Iue: Read Level (dBuV) Antenna Loss (dB/m) Preamp Factor (dB) (dB/m) (dB) 34.01 37.32 27.59 5.38 34.01 39.01 27.59 5.38 34.01 39.01 27.59 5.38 34.01 46.45 27.58 5.39 34.01 Bo2.11n(HT20) Textor (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) 50.11 27.53 5.47 33.92 46.43 27.55 5.49 29.93 52.06 27.53 5.47 33.92 48.65 27.55 5.49 29.93 <td>Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) 50.11 27.59 5.38 34.01 49.07 58.61 27.58 5.39 34.01 57.57 51.69 27.59 5.38 34.01 50.65 59.99 27.58 5.39 34.01 58.95 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 37.32 27.59 5.38 34.01 36.28 45.44 27.58 5.39 34.01 44.40 39.01 27.59 5.38 34.01 37.97 46.45 27.58 5.39 34.01 45.41 Bo2.11n(HT20) Test channel: Exector (dBuV) (dB/m) (dB) (dB) (dBuV/m) 50.11 27.53 5.47 33.92 49.19 46.43 27.55 5.49 29.93 49.54 52.06</td> <td>Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) 50.11 27.59 5.38 34.01 49.07 74.00 58.61 27.58 5.39 34.01 57.57 74.00 51.69 27.59 5.38 34.01 50.65 74.00 59.99 27.58 5.39 34.01 58.95 74.00 Iue: Read Level (dBwV) Antenna Factor (dB/m) Cable Loss (dB) Level (dBwV/m) Limit Line (dBwV/m) 37.32 27.59 5.38 34.01 36.28 54.00 39.01 27.58 5.39 34.01 44.40 54.00 39.01 27.59 5.38 34.01 37.97 54.00 46.45 27.58 5.39 34.01 45.41 54.00 Read Level (dBwV) Level (dB/m) Level (dBwV/m) Level (dBwV/m) Level (dBwV/m) 6.43 27.53 5.47 33.92 49.19 74.00 <!--</td--><td>Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line (dBuV/m) Over Limit Line Line (dBuV/m) Over Limit Line Line Line Line Line (dBuV/m) Over Limit Line Line Line Line Line Line Line Line</td></td>	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) 50.11 27.59 5.38 34.01 49.07 58.61 27.58 5.39 34.01 57.57 51.69 27.59 5.38 34.01 50.65 59.99 27.58 5.39 34.01 58.95 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 37.32 27.59 5.38 34.01 36.28 45.44 27.58 5.39 34.01 44.40 39.01 27.59 5.38 34.01 37.97 46.45 27.58 5.39 34.01 45.41 Bo2.11n(HT20) Test channel: Exector (dBuV) (dB/m) (dB) (dB) (dBuV/m) 50.11 27.53 5.47 33.92 49.19 46.43 27.55 5.49 29.93 49.54 52.06	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) 50.11 27.59 5.38 34.01 49.07 74.00 58.61 27.58 5.39 34.01 57.57 74.00 51.69 27.59 5.38 34.01 50.65 74.00 59.99 27.58 5.39 34.01 58.95 74.00 Iue: Read Level (dBwV) Antenna Factor (dB/m) Cable Loss (dB) Level (dBwV/m) Limit Line (dBwV/m) 37.32 27.59 5.38 34.01 36.28 54.00 39.01 27.58 5.39 34.01 44.40 54.00 39.01 27.59 5.38 34.01 37.97 54.00 46.45 27.58 5.39 34.01 45.41 54.00 Read Level (dBwV) Level (dB/m) Level (dBwV/m) Level (dBwV/m) Level (dBwV/m) 6.43 27.53 5.47 33.92 49.19 74.00 </td <td>Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line (dBuV/m) Over Limit Line Line (dBuV/m) Over Limit Line Line Line Line Line (dBuV/m) Over Limit Line Line Line Line Line Line Line Line</td>	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line Line (dBuV/m) Limit Line (dBuV/m) Over Limit Line Line (dBuV/m) Over Limit Line Line Line Line Line (dBuV/m) Over Limit Line Line Line Line Line Line Line Line

Test channel:

802.11n(HT20)

Remark.

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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.



Test mode:

Report No.: GTSE15040045601

Lowest

			` ,					
Peak value	!							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.74	27.59	5.38	34.01	48.70	74.00	-25.30	Horizontal
2400.00	58.11	27.58	5.39	34.01	57.07	74.00	-16.93	Horizontal
2390.00	51.29	27.59	5.38	34.01	50.25	74.00	-23.75	Vertical
2400.00	59.40	27.58	5.39	34.01	58.36	74.00	-15.64	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	37.05	27.59	5.38	34.01	36.01	54.00	-17.99	Horizontal
2400.00	45.14	27.58	5.39	34.01	44.10	54.00	-9.90	Horizontal
2390.00	38.72	27.59	5.38	34.01	37.68	54.00	-16.32	Vertical
2400.00	46.12	27.58	5.39	34.01	45.08	54.00	-8.92	Vertical
Test mode:		802.1	1n(HT40)	Te	st channel:	ŀ	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	49.58	27.53	5.47	33.92	48.66	74.00	-25.34	Horizontal
2500.00	46.02	27.55	5.49	29.93	49.13	74.00	-24.87	Horizontal
2483.50	51.45	27.53	5.47	33.92	50.53	74.00	-23.47	Vertical
2500.00	48.17	27.55	5.49	29.93	51.28	74.00	-22.72	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	37.13	27.53	5.47	33.92	36.21	54.00	-17.79	Horizontal
2500.00	33.59	27.55	5.49	29.93	36.70	54.00	-17.30	Horizontal
2483.50	38.90	27.53	5.47	33.92	37.98	54.00	-16.02	Vertical
2500.00	35.40	27.55	5.49	29.93	38.51	54.00	-15.49	Vertical
Remark:								

Test channel:

802.11n(HT40)

Remark.

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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

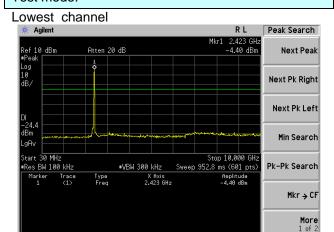
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the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



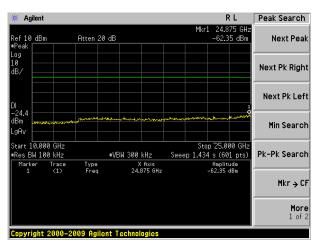
Test plot as follows:

Test mode:

802.11b

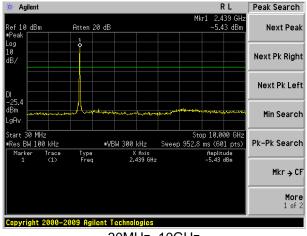


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30MHz~10GHz

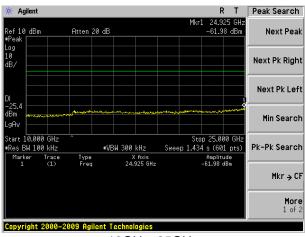


10GHz~25GHz

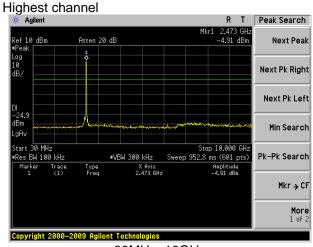
Middle channel



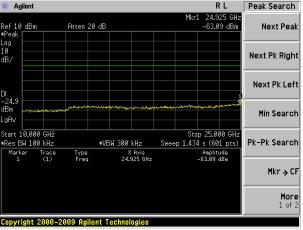
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

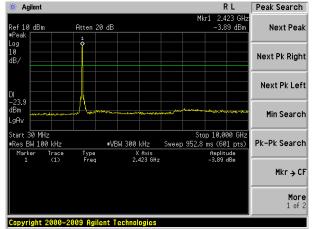
Page 33 of 60



Test mode:

802.11g



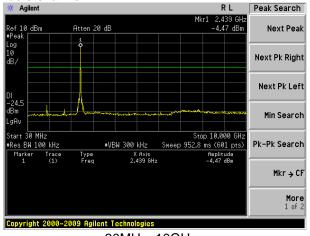


30MHz~10GHz

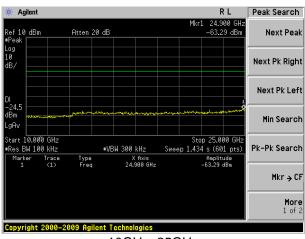
Agilent R L Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

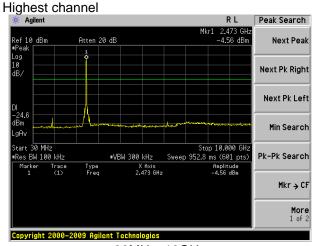
Middle channel



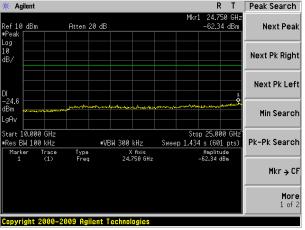
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



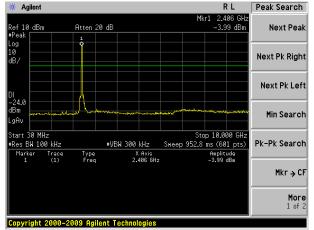
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel

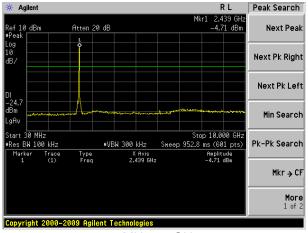


30MHz~10GHz

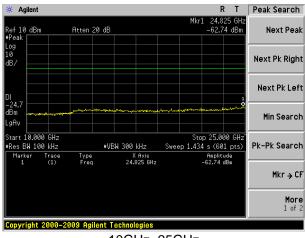
Peak Search R L 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq Amplitude -62.58 dBm X Axis 24.150 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

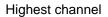
Middle channel

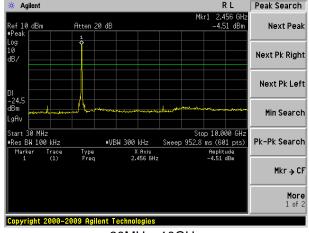


30MHz~10GHz

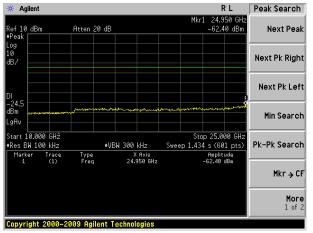


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

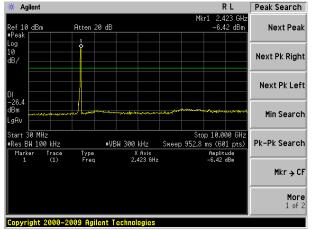
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:

802.11n(HT40)

Lowest channel

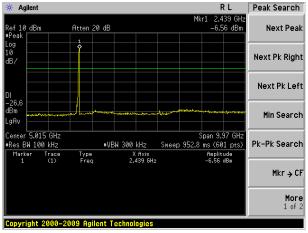


30MHz~10GHz

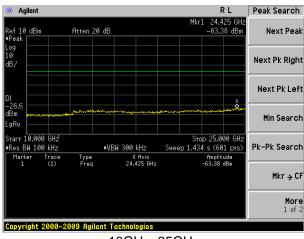
R L Peak Search 25.000 GHz -63.07 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Center 17.500 GH: •Res BW 100 kHz Span 15 GH: Sweep 1.434 s (601 pts Pk-Pk Search #VBW 300 kHz X Axis 25.000 GHz Amplitude -63.07 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

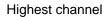
Middle channel

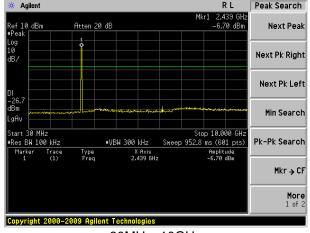


30MHz~10GHz

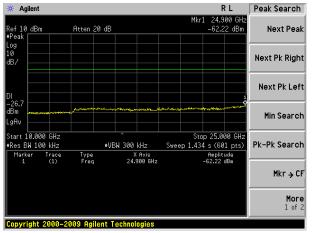


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	FCC Part15 C Section 15.209 ANSI C63.10:2013										
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	stance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value						
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak									
	Above 4CH-	Above 1GHz Peak 1MHz 3MHz Peak									
	Above 1GHZ	Above 1GHz									
Limit:	Frequen	су	_imit (dBuV	/m @3m)	Value						
	30MHz-88	30MHz-88MHz 40.00 Quasi-peak									
	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 46	54.00 Average									
	Above 10	Above 1GHz 74.00 Peak									
	Tum 0.8m A A Ground Plane	4m		Search Antenna RF Test Receiver							
	Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer Amplifier										



Test Procedure:	 The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) 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.
	 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, quasi- peak 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

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
35.38	43.94	14.39	0.61	30.07	28.87	40.00	-11.13	Vertical
87.42	44.24	13.18	1.09	29.76	28.75	40.00	-11.25	Vertical
199.99	47.37	12.57	1.84	29.20	32.58	43.50	-10.92	Vertical
400.43	40.21	17.10	2.85	29.50	30.66	46.00	-15.34	Vertical
651.94	38.11	20.65	3.92	29.25	33.43	46.00	-12.57	Vertical
750.11	34.21	21.43	4.28	29.20	30.72	46.00	-15.28	Vertical
49.88	40.35	15.26	0.77	30.00	26.38	40.00	-13.62	Horizontal
79.80	50.03	10.54	1.03	29.80	31.80	40.00	-8.20	Horizontal
164.33	54.23	10.80	1.65	29.34	37.34	43.50	-6.16	Horizontal
301.42	41.94	15.08	2.37	29.99	29.40	46.00	-16.60	Horizontal
480.53	36.83	18.07	3.22	29.34	28.78	46.00	-17.22	Horizontal
701.76	30.28	20.81	4.09	29.20	25.98	46.00	-20.02	Horizontal



■ Above 1GHz

Test mode:		802.11b		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	40.70	31.79	8.62	32.10	49.01	74.00	-24.99	Vertical
7236.00	34.48	36.19	11.68	31.97	50.38	74.00	-23.62	Vertical
9648.00	32.90	38.07	14.16	31.56	53.57	74.00	-20.43	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.31	31.79	8.62	32.10	47.62	74.00	-26.38	Horizontal
7236.00	34.19	36.19	11.68	31.97	50.09	74.00	-23.91	Horizontal
9648.00	32.46	38.07	14.16	31.56	53.13	74.00	-20.87	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	29.75	31.79	8.62	32.10	38.06	54.00	-15.94	Vertical
7236.00	23.34	36.19	11.68	31.97	39.24	54.00	-14.76	Vertical
9648.00	23.24	38.07	14.16	31.56	43.91	54.00	-10.09	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.82	31.79	8.62	32.10	37.13	54.00	-16.87	Horizontal
7236.00	22.77	36.19	11.68	31.97	38.67	54.00	-15.33	Horizontal
9648.00	22.20	38.07	14.16	31.56	42.87	54.00	-11.13	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		Tes	t 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	39.69	31.85	8.66	32.12	48.08	74.00	-25.92	Vertical
7311.00	34.50	36.37	11.71	31.91	50.67	74.00	-23.33	Vertical
9748.00	33.89	38.27	14.25	31.56	54.85	74.00	-19.15	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.11	31.85	8.66	32.12	48.50	74.00	-25.50	Horizontal
7311.00	33.12	36.37	11.71	31.91	49.29	74.00	-24.71	Horizontal
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	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	30.51	31.85	8.66	32.12	38.90	54.00	-15.10	Vertical
7311.00	22.81	36.37	11.71	31.91	38.98	54.00	-15.02	Vertical
9748.00	23.13	38.27	14.25	31.56	44.09	54.00	-9.91	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.21	31.85	8.66	32.12	38.60	54.00	-15.40	Horizontal
7311.00	22.20	36.37	11.71	31.91	38.37	54.00	-15.63	Horizontal
9748.00	23.47	38.27	14.25	31.56	44.43	54.00	-9.57	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		•	Test o	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	45.46	31.90	8.70	32.1	15	53.91	74.0	00	-20.09	Vertical
7386.00	35.33	36.49	11.76	31.8	33	51.75	74.0	00	-22.25	Vertical
9848.00	37.29	38.62	14.31	31.7	77	58.45	74.0	00	-15.55	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	44.68	31.90	8.70	32.1	15	53.13	74.0	00	-20.87	Horizontal
7386.00	34.19	36.49	11.76	31.8	33	50.61	74.0	00	-23.39	Horizontal
9848.00	33.44	38.62	14.31	31.7	77	54.60	74.0	00	-19.40	Horizontal
12310.00	*						74.0	00		Horizontal
14772.00	*						74.0	00		Horizontal
17234.00	*						74.0	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	36.33	31.90	8.70	32.1	15	44.78	54.0	00	-9.22	Vertical
7386.00	25.24	36.49	11.76	31.8	33	41.66	54.0	00	-12.34	Vertical
9848.00	25.78	38.62	14.31	31.7	77	46.94	54.0	00	-7.06	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	35.01	31.90	8.70	32.1	15	43.46	54.0	00	-10.54	Horizontal
7386.00	23.57	36.49	11.76	31.8	33	39.99	54.0	00	-14.01	Horizontal
9848.00	22.69	38.62	14.31	31.7	77	43.85	54.0	00	-10.15	Horizontal
12310.00	*						54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*	_					54.0	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:		802.11g		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	40.08	31.79	8.62	32.10	48.39	74.00	-25.61	Vertical
7236.00	34.09	36.19	11.68	31.97	49.99	74.00	-24.01	Vertical
9648.00	32.62	38.07	14.16	31.56	53.29	74.00	-20.71	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.79	31.79	8.62	32.10	47.10	74.00	-26.90	Horizontal
7236.00	33.85	36.19	11.68	31.97	49.75	74.00	-24.25	Horizontal
9648.00	32.20	38.07	14.16	31.56	52.87	74.00	-21.13	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	29.18	31.79	8.62	32.10	37.49	54.00	-16.51	Vertical
7236.00	22.96	36.19	11.68	31.97	38.86	54.00	-15.14	Vertical
9648.00	22.97	38.07	14.16	31.56	43.64	54.00	-10.36	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.33	31.79	8.62	32.10	36.64	54.00	-17.36	Horizontal
7236.00	22.44	36.19	11.68	31.97	38.34	54.00	-15.66	Horizontal
9648.00	21.96	38.07	14.16	31.56	42.63	54.00	-11.37	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	39.18	31.85	8.66	32.12	47.57	74.00	-26.43	Vertical
7311.00	34.18	36.37	11.71	31.91	50.35	74.00	-23.65	Vertical
9748.00	33.65	38.27	14.25	31.56	54.61	74.00	-19.39	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.68	31.85	8.66	32.12	48.07	74.00	-25.93	Horizontal
7311.00	32.83	36.37	11.71	31.91	49.00	74.00	-25.00	Horizontal
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	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	30.04	31.85	8.66	32.12	38.43	54.00	-15.57	Vertical
7311.00	22.50	36.37	11.71	31.91	38.67	54.00	-15.33	Vertical
9748.00	22.91	38.27	14.25	31.56	43.87	54.00	-10.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.80	31.85	8.66	32.12	38.19	54.00	-15.81	Horizontal
7311.00	21.93	36.37	11.71	31.91	38.10	54.00	-15.90	Horizontal
9748.00	23.27	38.27	14.25	31.56	44.23	54.00	-9.77	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Tes	t 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	44.58	31.90	8.70	32.15	53.03	74.00	-20.97	Vertical
7386.00	34.78	36.49	11.76	31.83	51.20	74.00	-22.80	Vertical
9848.00	36.89	38.62	14.31	31.77	58.05	74.00	-15.95	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.93	31.90	8.70	32.15	52.38	74.00	-21.62	Horizontal
7386.00	33.70	36.49	11.76	31.83	50.12	74.00	-23.88	Horizontal
9848.00	33.07	38.62	14.31	31.77	54.23	74.00	-19.77	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	35.52	31.90	8.70	32.15	43.97	54.00	-10.03	Vertical
7386.00	24.70	36.49	11.76	31.83	41.12	54.00	-12.88	Vertical
9848.00	25.40	38.62	14.31	31.77	46.56	54.00	-7.44	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.31	31.90	8.70	32.15	42.76	54.00	-11.24	Horizontal
7386.00	23.09	36.49	11.76	31.83	39.51	54.00	-14.49	Horizontal
9848.00	22.34	38.62	14.31	31.77	43.50	54.00	-10.50	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	40.73	31.79	8.62	32.10	49.04	74.00	-24.96	Vertical
7236.00	34.49	36.19	11.68	31.97	50.39	74.00	-23.61	Vertical
9648.00	32.91	38.07	14.16	31.56	53.58	74.00	-20.42	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.33	31.79	8.62	32.10	47.64	74.00	-26.36	Horizontal
7236.00	34.21	36.19	11.68	31.97	50.11	74.00	-23.89	Horizontal
9648.00	32.47	38.07	14.16	31.56	53.14	74.00	-20.86	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	29.78	31.79	8.62	32.10	38.09	54.00	-15.91	Vertical
7236.00	23.35	36.19	11.68	31.97	39.25	54.00	-14.75	Vertical
9648.00	23.25	38.07	14.16	31.56	43.92	54.00	-10.08	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.85	31.79	8.62	32.10	37.16	54.00	-16.84	Horizontal
7236.00	22.78	36.19	11.68	31.97	38.68	54.00	-15.32	Horizontal
9648.00	22.21	38.07	14.16	31.56	42.88	54.00	-11.12	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	39.71	31.85	8.66	32.12	48.10	74.00	-25.90	Vertical
7311.00	34.52	36.37	11.71	31.91	50.69	74.00	-23.31	Vertical
9748.00	33.90	38.27	14.25	31.56	54.86	74.00	-19.14	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.13	31.85	8.66	32.12	48.52	74.00	-25.48	Horizontal
7311.00	33.13	36.37	11.71	31.91	49.30	74.00	-24.70	Horizontal
9748.00	33.77	38.27	14.25	31.56	54.73	74.00	-19.27	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	30.54	31.85	8.66	32.12	38.93	54.00	-15.07	Vertical
7311.00	22.83	36.37	11.71	31.91	39.00	54.00	-15.00	Vertical
9748.00	23.14	38.27	14.25	31.56	44.10	54.00	-9.90	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.23	31.85	8.66	32.12	38.62	54.00	-15.38	Horizontal
7311.00	22.21	36.37	11.71	31.91	38.38	54.00	-15.62	Horizontal
9748.00	23.48	38.27	14.25	31.56	44.44	54.00	-9.56	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. &}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	45.50	31.90	8.70	32.15	53.95	74.00	-20.05	Vertical
7386.00	35.36	36.49	11.76	31.83	51.78	74.00	-22.22	Vertical
9848.00	37.31	38.62	14.31	31.77	58.47	74.00	-15.53	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.71	31.90	8.70	32.15	53.16	74.00	-20.84	Horizontal
7386.00	34.21	36.49	11.76	31.83	50.63	74.00	-23.37	Horizontal
9848.00	33.46	38.62	14.31	31.77	54.62	74.00	-19.38	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	36.37	31.90	8.70	32.15	44.82	54.00	-9.18	Vertical
7386.00	25.26	36.49	11.76	31.83	41.68	54.00	-12.32	Vertical
9848.00	25.80	38.62	14.31	31.77	46.96	54.00	-7.04	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.04	31.90	8.70	32.15	43.49	54.00	-10.51	Horizontal
7386.00	23.59	36.49	11.76	31.83	40.01	54.00	-13.99	Horizontal
9848.00	22.71	38.62	14.31	31.77	43.87	54.00	-10.13	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:			Lowest		
Peak value:		'								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	39.20	31.81	8.63	32.11		47.53	74.00		-26.47	Vertical
7266.00	33.53	36.28	11.69	31.94		49.56	74.00		-24.44	Vertical
9688.00	32.22	38.13	14.21	31.52		53.04	74.00		-20.96	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	38.04	31.81	8.63	32.11		46.37	74.	00	-27.63	Horizontal
7266.00	33.37	36.28	11.69	31.94		49.40	74.	00	-24.60	Horizontal
9688.00	31.84	38.13	14.21	31.52		52.66	74.	00	-21.34	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.37	31.81	8.63	32.11	36.70	54.00	-17.30	Vertical
7266.00	22.42	36.28	11.69	31.94	38.45	54.00	-15.55	Vertical
9688.00	22.59	38.13	14.21	31.52	43.41	54.00	-10.59	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.64	31.81	8.63	32.11	35.97	54.00	-18.03	Horizontal
7266.00	21.97	36.28	11.69	31.94	38.00	54.00	-16.00	Horizontal
9688.00	21.60	38.13	14.21	31.52	42.42	54.00	-11.58	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	IT40)		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	38.45	31.85	8.66	32.12		46.84	74.00		-27.16	Vertical
7311.00	33.72	36.37	11.71	31.91		49.89	74.0	00	-24.11	Vertical
9748.00	33.33	38.27	14.25	31.56		54.29	74.0	00	-19.71	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	39.07	31.85	8.66	32	.12	47.46	74.00		-26.54	Horizontal
7311.00	32.43	36.37	11.71	31.91		48.60	74.00		-25.40	Horizontal
9748.00	33.25	38.27	14.25	31.56		54.21	74.00		-19.79	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.00			Horizontal
17059.00	*						74.0	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.37	31.85	8.66	32	.12	37.76	54.0	00	-16.24	Vertical
7311.00	22.06	36.37	11.71	31	.91	38.23	54.0	00	-15.77	Vertical
9748.00	22.60	38.27	14.25	31	.56	43.56	54.0	00	-10.44	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.23	31.85	8.66	32	.12	37.62	54.0	00	-16.38	Horizontal
7311.00	21.54	36.37	11.71	31.91		37.71	54.0	00	-16.29	Horizontal
9748.00	22.97	38.27	14.25	31	.56	43.93	54.0	00	-10.07	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	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	
4904.00	43.33	31.88	8.68	32.13	51.76	74.00	-22.24	Vertical	
7356.00	33.98	36.45	11.75	31.86	50.32	74.00	-23.68	Vertical	
9808.00	36.33	38.43	14.29	31.68	57.37	74.00	-16.63	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	42.87	31.88	8.68	32.13	51.30	74.00	-22.70	Horizontal	
7356.00	33.01	36.45	11.75	31.86	49.35	74.00	-24.65	Horizontal	
9808.00	32.55	38.43	14.29	31.68	53.59	74.00	-20.41	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	34.36	31.88	8.68	32.13	42.79	54.00	-11.21	Vertical	
7356.00	23.93	36.45	11.75	31.86	40.27	54.00	-13.73	Vertical	
9808.00	24.86	38.43	14.29	31.68	45.90	54.00	-8.10	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	33.32	31.88	8.68	32.13	41.75	54.00	-12.25	Horizontal	
7356.00	22.42	36.45	11.75	31.86	38.76	54.00	-15.24	Horizontal	
9808.00	21.83	38.43	14.29	31.68	42.87	54.00	-11.13	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*					54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

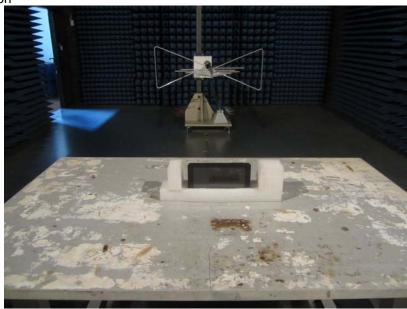
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{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











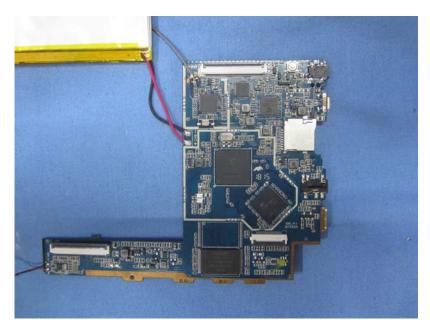




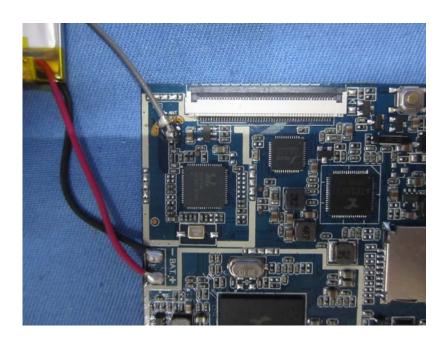


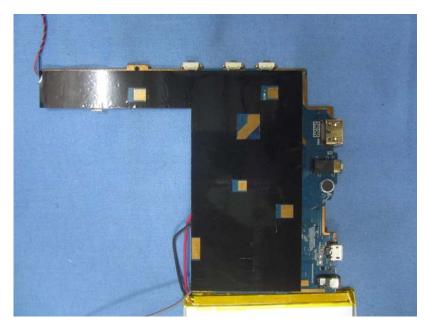




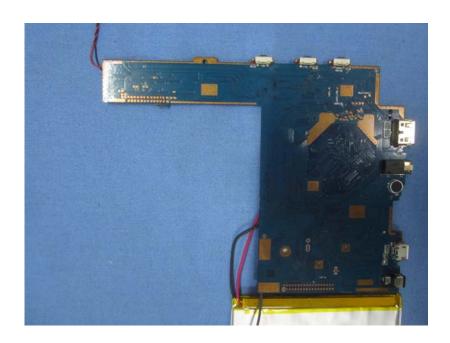


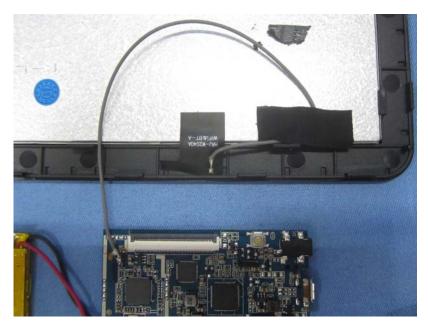


















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