

Global United Technology Services Co., Ltd.

Report No.: GTSE15040048301

FCC Report (WIFI)

Applicant: NEOSTRA INDUSTRIAL(HK)LIMITED

Address of Applicant: MSC2971 RM 1007 10/F HO KING CTR 2-16 FA YUEN ST

MONGKOK KL, HONG KONG

Equipment Under Test (EUT)

Product Name: MID

Model No.: MB709Q5, MB709Q6

FCC ID: 2ABNS-MB709Q5

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

Date of sample receipt: April 17, 2015

Date of Test: April 17-23, 2015

Date of report issued: April 23, 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	April 23, 2015	Original

Prepared By:	Edward.Pan	Date:	April 23, 2015
	Project Engineer		
Check By:	hank. yan Reviewer	Date:	April 23, 2015



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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.



5 General Information

5.1 Client Information

Applicant:	NEOSTRA INDUSTRIAL(HK)LIMITED
Address of Applicant:	MSC2971 RM 1007 10/F HO KING CTR 2-16 FA YUEN ST MONGKOK KL, HONG KONG
Manufacturer:	NEOSTRA INDUSTRIAL(HK)LIMITED
Address of Manufacturer:	MSC2971 RM 1007 10/F HO KING CTR 2-16 FA YUEN ST MONGKOK KL, HONG KONG
Factory:	Shenzhen Neostra Technology Co., Ltd
Address of Factory:	2-5/F, 7 Building, Huaide Cuihai Industrial Park, Fuyong, Shenzhen

5.2 General Description of EUT

Product Name:	MID	
Model No.:	MB709Q5, MB709Q6	
Test Model No.:	MB709Q5	
Remark: All above models are The only differences are the n	identical in the same PCB layout, interior structure and electrical circuits.	
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:	1.0dBi (declare by Applicant)	
Power supply:	Model No.:TPA-655100UU	
	Input: AC 100-240V, 50/60Hz, 0.2A	
	Output: DC 5.0V, 1000mA	
	DC 3.7V Li-ion Battery	

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



Operation Frequency each of channel							
Channel Frequency Channel Frequency C					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 chamier	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)	
Lowest channel	2412MHz	2422MHz	
Middle channel	2437MHz	2437MHz	
Highest channel	2462MHz	2452MHz	

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
Transmitting mode	Reep the LOT 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 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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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 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.

Test Location 5.6

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



6 Test Instruments list

Rad	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				



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 1.0dBi





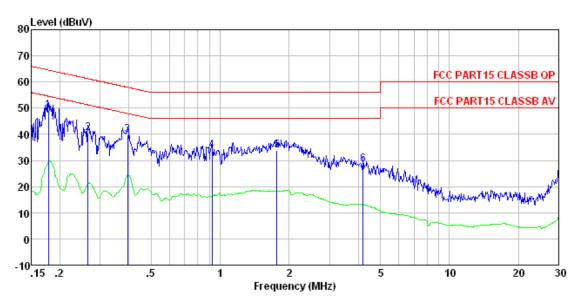
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,							
Test Method:	ANSI C63.4:2014								
Test Frequency Range:	150KHz to 30MHz								
1 , 3									
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv								
Limit:	Frequency range (MHz)	Frequency range (MHz)							
		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 logarithm		00						
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 C63.4: 2014 on conducted measurement. 								
Test Instruments:	Refer to section 6.0 for details	3							
Test mode:	Refer to section 5.3 for details	3							
Test results:	Pass								
	1 22								



Measurement data

Line:



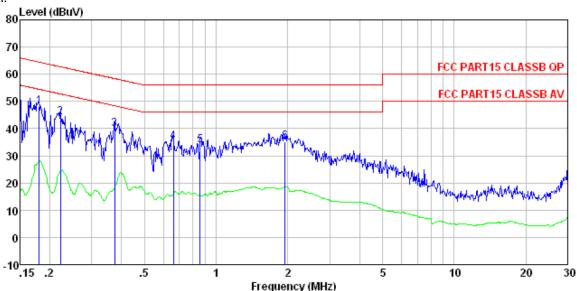
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0483RF Test mode : WiFi mode Test Engineer: Qing

Freq Level Factor Loss Level Line Limit Remark MHz dBuV dB dB dBuV dBuV dB	CSI	pugineer.	_	LICH	Coblo		Limit	0ver		
1 0.179 48.98 0.14 0.13 49.25 64.55 -15.30 QP 2 0.266 40.20 0.11 0.11 40.42 61.25 -20.83 QP 3 0.396 39.57 0.11 0.11 39.79 57.95 -18.16 QP		Freq							Remark	
2 0.266 40.20 0.11 0.11 40.42 61.25 -20.83 QP 3 0.396 39.57 0.11 0.11 39.79 57.95 -18.16 QP		MHz	dBuV	dB	dB	dBuV	dBuV	dB		
6 4. 202 28. 17 0. 20 0. 15 28. 52 56. 00 -27. 48 QP	4 5	0. 266 0. 396 0. 923 1. 772	40. 20 39. 57 33. 55 33. 55	0.11 0.11 0.14 0.12	0.11 0.11 0.13 0.14	40. 42 39. 79 33. 82 33. 81	61.25 57.95 56.00 56.00	-20.83 -18.16 -22.18 -22.19	QP QP QP QP	



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0483RF Test mode : WiFi mode Test Engineer: Qing

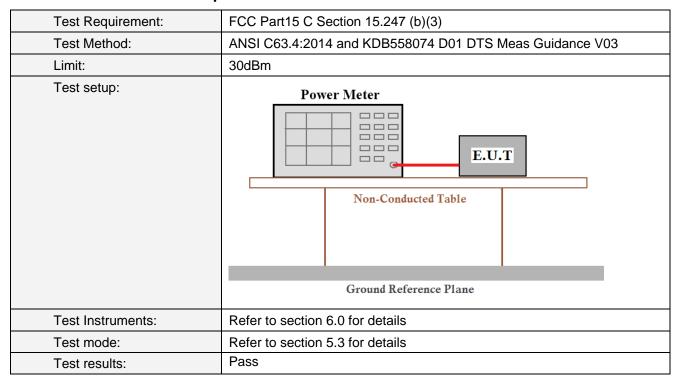
	Freq		LISN Factor			Limit Line	Over Limit	Remark
	MHz	dBuV	₫B	dB	dBuV	dBuV	₫B	
1 2 3	0.375	48. 07 43. 93 39. 65	0. 07 0. 06 0. 06	0.12 0.10	48. 27 44. 11 39. 81	62. 74 58. 39	-18.58	QP QP
4 5 6	0. 661 0. 857 1. 949	35. 02 33. 57 34. 84	0. 07 0. 07 0. 09	0.13	35. 22 33. 77 35. 07	56.00	-20. 78 -22. 23 -20. 93	QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 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		Limit(dBm)	Result				
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesult	
Lowest	16.91	14.92	10.34	9.35		Pass	
Middle	16.74	15.35	10.89	9.65	30.00		
Highest	15.53	14.97	10.48	9.48			



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.4:2014 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		

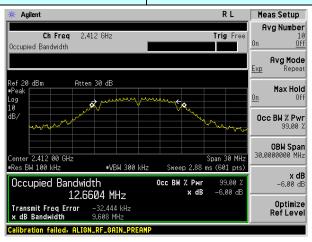
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Nesuit
Lowest	9.608	15.188	17.643	36.458		Pass
Middle	9.575	15.061	17.647	36.033	>500	
Highest	9.599	15.379	17.649	36.125		

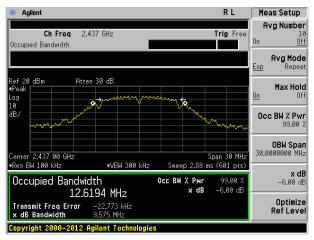
Test plot as follows:



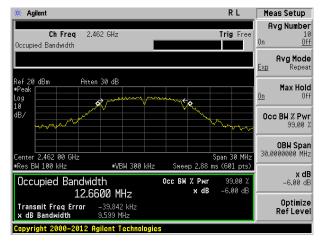
Test mode: 802.11b



Lowest channel



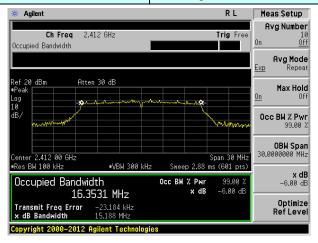
Middle channel



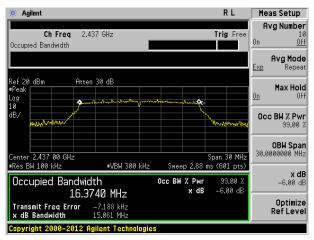
Highest channel



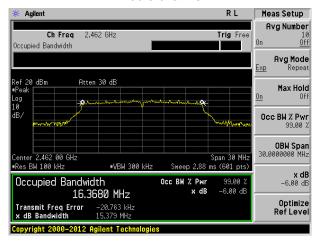
Test mode: 802.11g



Lowest channel



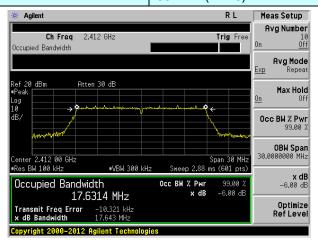
Middle channel



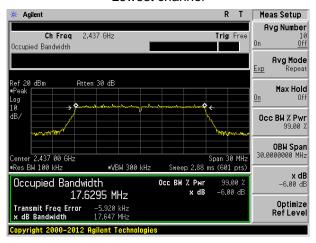
Highest channel



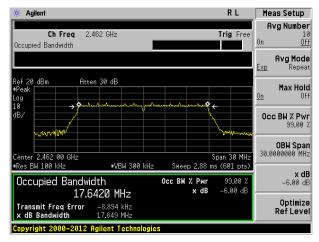
Test mode: 802.11n(HT20)



Lowest channel



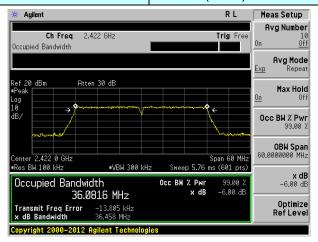
Middle channel



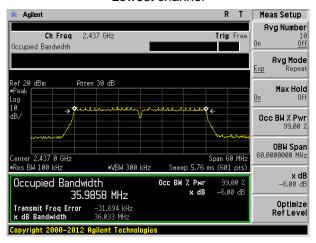
Highest channel



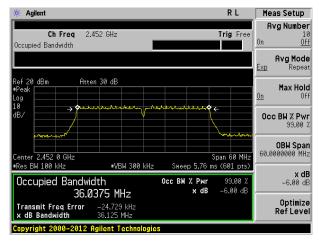
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2014 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		

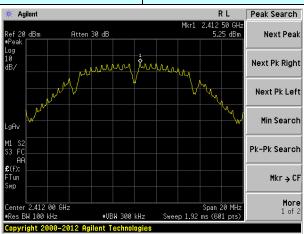
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LITIIL(GBITI/3KI12)	Kesuit
Lowest	5.25	0.97	-4.75	-8.75		Pass
Middle	5.03	0.97	-4.06	-8.58	8.00	
Highest	5.31	1.57	-4.18	-8.55		

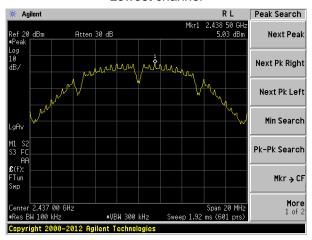


Test plot as follows:

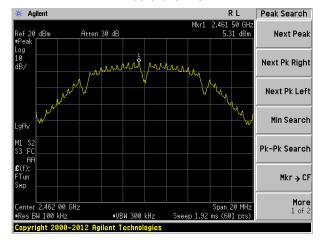
Test mode: 802.11b



Lowest channel



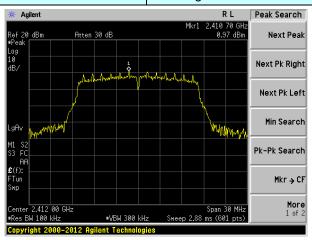
Middle channel



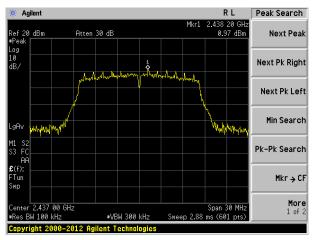
Highest channel



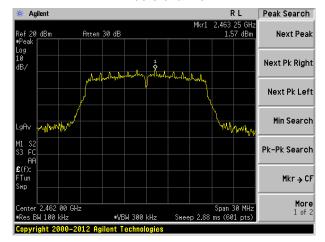
Test mode: 802.11g



Lowest channel



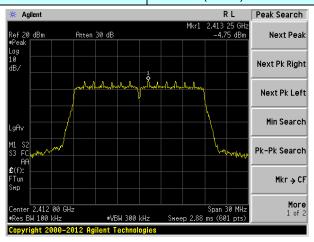
Middle channel



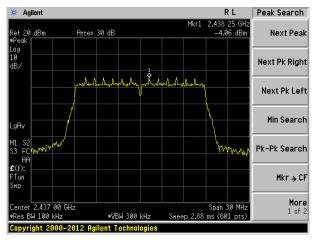
Highest channel



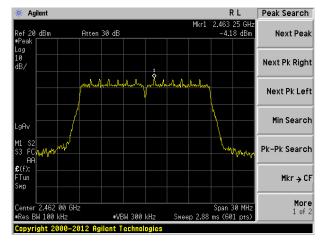
Test mode: 802.11n(HT20)



Lowest channel



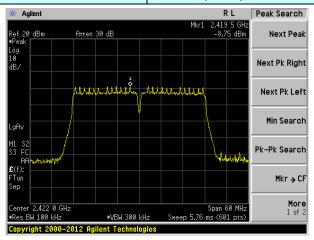
Middle channel



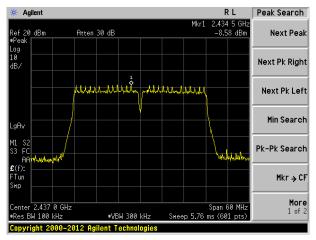
Highest channel



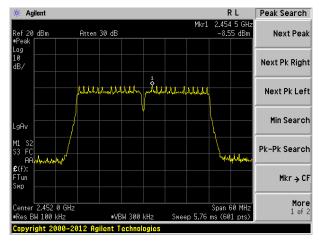
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



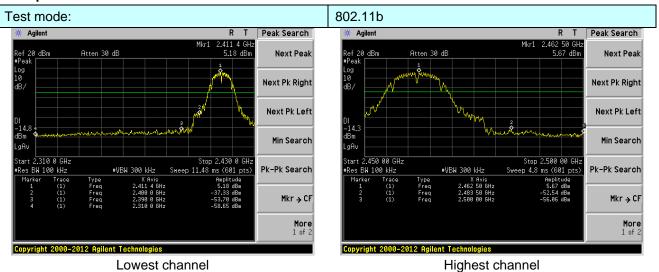
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	ANSI C63.4:2014 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			

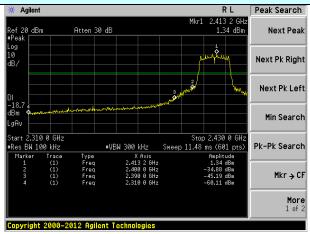


Test plot as follows:



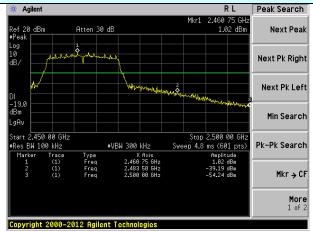
Lowest channel

Test mode:



Lowest channel

802.11g

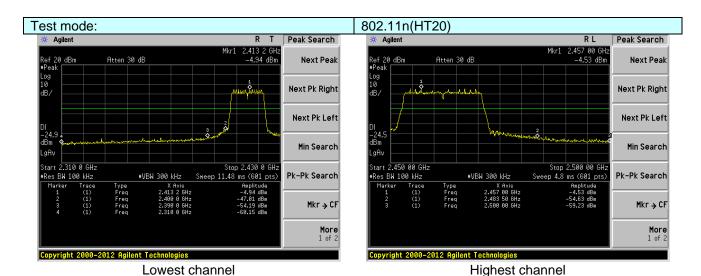


Highest channel

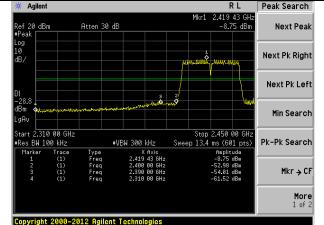


Test mode:

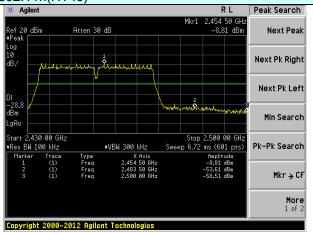
Report No.: GTSE15040048301



802.11n(HT40)







Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.20	9 and 15.205					
Test Method:	ANSI C63.4:201	4						
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to						
	2500MHz) data							
Test site:	Measurement D		•		1			
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	7,0070 10112	RMS	1MHz	3MHz	Average			
Limit:	Freque	ncy	Limit (dBuV		Value			
	Above 1	GH ₂	54.0		Average			
	7,0000	0.12	74.0	00	Peak			
Test setup:	Turn Table	Horn Antenna Spectrum Analyzer						
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. 							
			ded in the repo	ort.				
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.3 for detail	s					
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:	802.11b	Test channel:	Lowest
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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	51.79	27.59	5.38	34.01	50.75	74.00	-23.25	Horizontal
2400.00	60.86	27.58	5.39	34.01	59.82	74.00	-14.18	Horizontal
2390.00	53.49	27.59	5.38	34.01	52.45	74.00	-21.55	Vertical
2400.00	62.69	27.58	5.39	34.01	61.65	74.00	-12.35	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	38.51	27.59	5.38	34.01	37.47	54.00	-16.53	Horizontal
2400.00	46.82	27.58	5.39	34.01	45.78	54.00	-8.22	Horizontal
2390.00	40.35	27.59	5.38	34.01	39.31	54.00	-14.69	Vertical
2400.00	47.96	27.58	5.39	34.01	46.92	54.00	-7.08	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	52.51	27.53	5.47	33.92	51.59	74.00	-22.41	Horizontal
2500.00	48.29	27.55	5.49	29.93	51.40	74.00	-22.60	Horizontal
2483.50	54.80	27.53	5.47	33.92	53.88	74.00	-20.12	Vertical
2500.00	50.83	27.55	5.49	29.93	53.94	74.00	-20.06	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	38.90	27.53	5.47	33.92	37.98	54.00	-16.02	Horizontal
2500.00	34.98	27.55	5.49	29.93	38.09	54.00	-15.91	Horizontal
2483.50	40.86	27.53	5.47	33.92	39.94	54.00	-14.06	Vertical
2500.00	36.86	27.55	5.49	29.93	39.97	54.00	-14.03	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	Te	st channel:	L	owest	
Peak value:		<u>'</u>		<u>'</u>		<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.52	27.59	5.38	34.01	49.48	74.00	-24.52	Horizontal
2400.00	59.15	27.58	5.39	34.01	58.11	74.00	-15.89	Horizontal
2390.00	52.12	27.59	5.38	34.01	51.08	74.00	-22.92	Vertical
2400.00	60.65	27.58	5.39	34.01	59.61	74.00	-14.39	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	37.61	27.59	5.38	34.01	36.57	54.00	-17.43	Horizontal
2400.00	45.78	27.58	5.39	34.01	44.74	54.00	-9.26	Horizontal
2390.00	39.34	27.59	5.38	34.01	38.30	54.00	-15.70	Vertical
2400.00	46.82	27.58	5.39	34.01	45.78	54.00	-8.22	Vertical
Test mode:		802.1	1g	Te	st channel:	H	Highest	
Peak value:					_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.69	27.53	5.47	33.92	49.77	74.00	-24.23	Horizontal
2500.00	46.88	27.55	5.49	29.93	49.99	74.00	-24.01	Horizontal
2483.50	52.72	27.53	5.47	33.92	51.80	74.00	-22.20	Vertical
2500.00	49.18	27.55	5.49	29.93	52.29	74.00	-21.71	Vertical
Average va	lue:	1		1	1	ı	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	37.80	27.53	5.47	33.92	36.88	54.00	-17.12	Horizontal
2500.00	34.12	27.55	5.49	29.93	37.23	54.00	-16.77	Horizontal
2483.50	39.65	27.53	5.47	33.92	38.73	54.00	-15.27	Vertical
2500.00	35.95	27.55	5.49	29.93	39.06	54.00	-14.94	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.



Test mode:

Report No.: GTSE15040048301

Lowest

		00=	(=0)	. •	0. 0			
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	50.56	27.59	5.38	34.01	49.52	74.00	-24.48	Horizontal
2400.00	59.21	27.58	5.39	34.01	58.17	74.00	-15.83	Horizontal
2390.00	52.17	27.59	5.38	34.01	51.13	74.00	-22.87	Vertical
2400.00	60.71	27.58	5.39	34.01	59.67	74.00	-14.33	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	45.81	27.58	5.39	34.01	44.77	54.00	-9.23	Horizontal
2390.00	39.37	27.59	5.38	34.01	38.33	54.00	-15.67	Vertical
2400.00	46.85	27.58	5.39	34.01	45.81	54.00	-8.19	Vertical
				•	•		•	
Test mode:		802.1	1n(HT20)	Te	st channel:	1	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	50.75	27.53	5.47	33.92	49.83	74.00	-24.17	Horizontal
2500.00	46.93	27.55	5.49	29.93	50.04	74.00	-23.96	Horizontal
2483.50	52.79	27.53	5.47	33.92	51.87	74.00	-22.13	Vertical
2500.00	49.23	27.55	5.49	29.93	52.34	74.00	-21.66	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	37.84	27.53	5.47	33.92	36.92	54.00	-17.08	Horizontal
2500.00	34.15	27.55	5.49	29.93	37.26	54.00	-16.74	Horizontal
2483.50	39.69	27.53	5.47	33.92	38.77	54.00	-15.23	Vertical
2500.00	35.98	27.55	5.49	29.93	39.09	54.00	-14.91	Vertical
Remark:								

Test channel:

802.11n(HT20)

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

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



Test mode:

Report No.: GTSE15040048301

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	49.73	27.59	5.38	34.01	48.69	74.00	-25.31	Horizontal
2400.00	58.10	27.58	5.39	34.01	57.06	74.00	-16.94	Horizontal
2390.00	51.28	27.59	5.38	34.01	50.24	74.00	-23.76	Vertical
2400.00	59.38	27.58	5.39	34.01	58.34	74.00	-15.66	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	45.13	27.58	5.39	34.01	44.09	54.00	-9.91	Horizontal
2390.00	38.71	27.59	5.38	34.01	37.67	54.00	-16.33	Vertical
2400.00	46.11	27.58	5.39	34.01	45.07	54.00	-8.93	Vertical
Test mode:		802.1	1n(HT40)	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	49.57	27.53	5.47	33.92	48.65	74.00	-25.35	Horizontal
2500.00					40.00	74.00	_0.00	
	46.01	27.55	5.49	29.93	49.12	74.00	-24.88	Horizontal
2483.50	46.01 51.43	27.55 27.53	5.49 5.47	29.93 33.92				
2483.50 2500.00					49.12	74.00	-24.88	Horizontal
	51.43 48.16	27.53	5.47	33.92	49.12 50.51	74.00 74.00	-24.88 -23.49	Horizontal Vertical
2500.00	51.43 48.16	27.53	5.47	33.92	49.12 50.51	74.00 74.00	-24.88 -23.49	Horizontal Vertical
2500.00 Average va Frequency	51.43 48.16 Iue: Read Level	27.53 27.55 Antenna Factor	5.47 5.49 Cable Loss	33.92 29.93 Preamp Factor	49.12 50.51 51.27 Level	74.00 74.00 74.00 Limit Line	-24.88 -23.49 -22.73 Over Limit	Horizontal Vertical Vertical
2500.00 Average va Frequency (MHz)	51.43 48.16 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)	49.12 50.51 51.27 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-24.88 -23.49 -22.73 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2500.00 Average va Frequency (MHz) 2483.50	51.43 48.16 Iue: Read Level (dBuV) 37.12	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	49.12 50.51 51.27 Level (dBuV/m) 36.20	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-24.88 -23.49 -22.73 Over Limit (dB) -17.80	Horizontal Vertical Vertical Polarization Horizontal
2500.00 Average va Frequency (MHz) 2483.50 2500.00	51.43 48.16 Iue: Read Level (dBuV) 37.12 33.59	27.53 27.55 Antenna Factor (dB/m) 27.53 27.55	5.47 5.49 Cable Loss (dB) 5.47 5.49	33.92 29.93 Preamp Factor (dB) 33.92 29.93	49.12 50.51 51.27 Level (dBuV/m) 36.20 36.70	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-24.88 -23.49 -22.73 Over Limit (dB) -17.80 -17.30	Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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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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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2014 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				

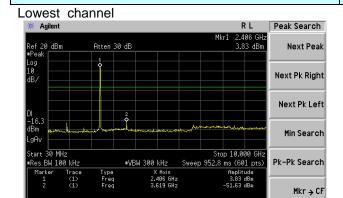


Test plot as follows:

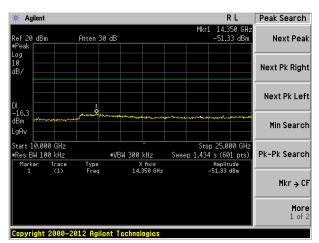
Test mode:

802.11b

More 1 of 2



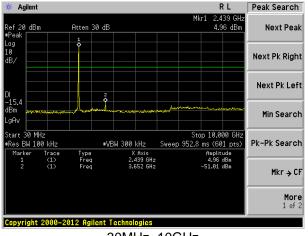




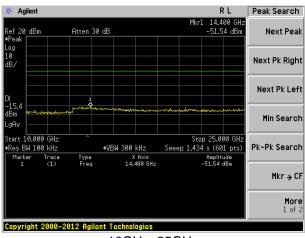
10GHz~25GHz

Middle channel

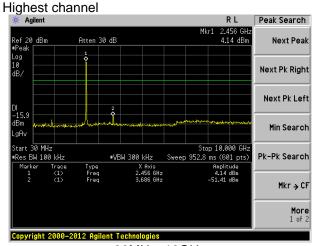
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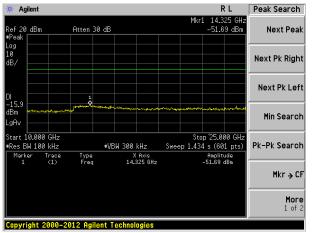
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



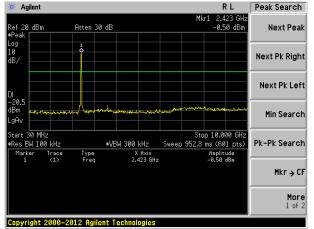
10GHz~25GHz



Test mode:

802.11g

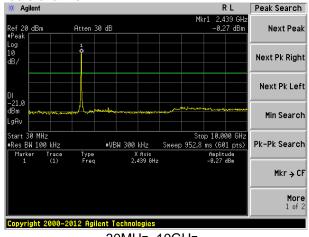
Lowest channel



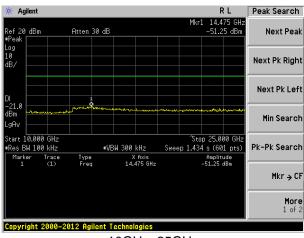
30MHz~10GHz

10GHz~25GHz

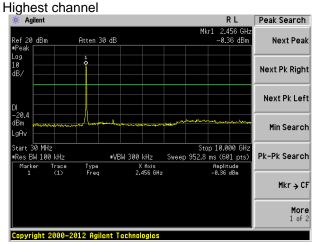
Middle channel



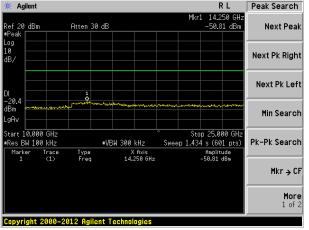
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

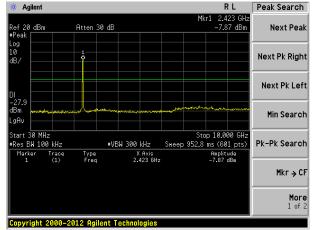


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Test mode:

802.11n(HT20)

Lowest channel



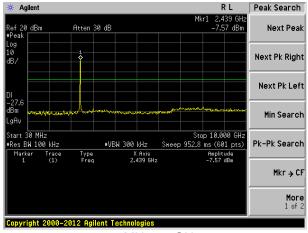
30MHz~10GHz

Peak Search 🗰 Agilent Next Peak Atten 30 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 X Axis 13.350 GHz Mkr → CF More 1 of 2

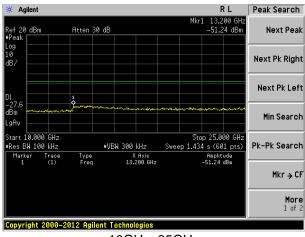
10GHz~25GHz

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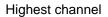
Middle channel

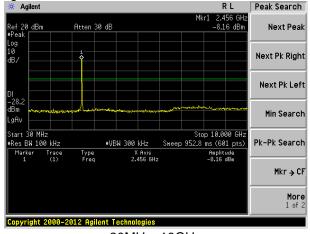


30MHz~10GHz

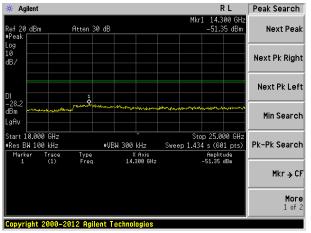


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

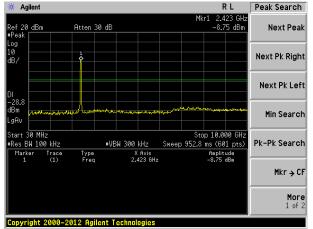
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Test mode:

802.11n(HT40)

Lowest channel

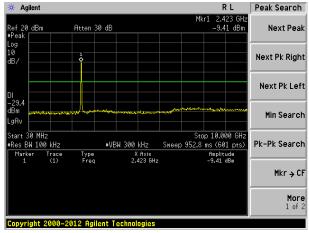


30MHz~10GHz

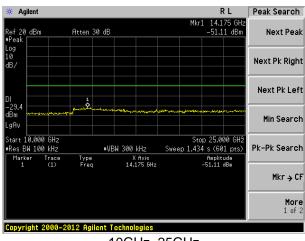
Peak Search 14.150 GHz -50.93 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search X Axis 14.150 GHz Amplitude -50.93 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

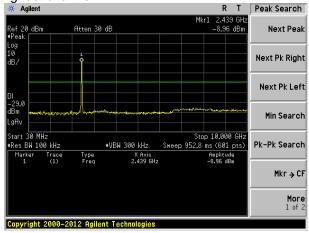


30MHz~10GHz

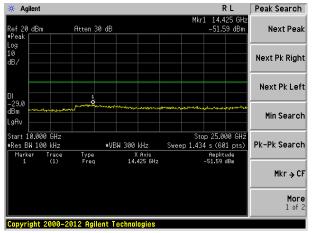


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	FCC Part15 C Section 15.209 ANSI C63.4:2014										
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	stance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value						
	30MHz-1GHz										
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz Peak									
	Above IGHZ	RMS	1MHz	3MHz	Average						
Limit:	Frequen	icy	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 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:	1. 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.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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

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
85.60	52.43	12.60	1.07	29.77	36.33	40.00	-3.67	Vertical
96.10	43.29	14.90	1.16	29.72	29.63	43.50	-13.87	Vertical
171.39	44.60	11.03	1.69	29.31	28.01	43.50	-15.49	Vertical
210.05	40.62	12.87	1.90	29.30	26.09	43.50	-17.41	Vertical
330.20	37.00	15.79	2.52	29.83	25.48	46.00	-20.52	Vertical
504.71	42.51	18.68	3.33	29.30	35.22	46.00	-10.78	Vertical
71.83	43.86	10.32	0.96	29.84	25.30	40.00	-14.70	Horizontal
85.60	52.40	12.60	1.07	29.77	36.30	40.00	-3.70	Horizontal
96.10	41.54	14.90	1.16	29.72	27.88	43.50	-15.62	Horizontal
210.05	47.84	12.87	1.90	29.30	33.31	43.50	-10.19	Horizontal
270.38	44.64	14.38	2.22	29.80	31.44	46.00	-14.56	Horizontal
504.71	41.11	18.68	3.33	29.30	33.82	46.00	-12.18	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	st	
Peak value:						<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.65	31.79	8.62	32.10	48.96	74.00	-25.04	Vertical
7236.00	34.45	36.19	11.68	31.97	50.35	74.00	-23.65	Vertical
9648.00	32.88	38.07	14.16	31.56	53.55	74.00	-20.45	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.27	31.79	8.62	32.10	47.58	74.00	-26.42	Horizontal
7236.00	34.17	36.19	11.68	31.97	50.07	74.00	-23.93	Horizontal
9648.00	32.44	38.07	14.16	31.56	53.11	74.00	-20.89	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	29.71	31.79	8.62	32.10	38.02	54.00	-15.98	Vertical
7236.00	23.30	36.19	11.68	31.97	39.20	54.00	-14.80	Vertical
9648.00	23.22	38.07	14.16	31.56	43.89	54.00	-10.11	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.78	31.79	8.62	32.10	37.09	54.00	-16.91	Horizontal
7236.00	22.74	36.19	11.68	31.97	38.64	54.00	-15.36	Horizontal
9648.00	22.18	38.07	14.16	31.56	42.85	54.00	-11.15	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	st 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	39.65	31.85	8.66	32.12	48.04	74.00	-25.96	Vertical
7311.00	34.48	36.37	11.71	31.91	50.65	74.00	-23.35	Vertical
9748.00	33.87	38.27	14.25	31.56	54.83	74.00	-19.17	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.08	31.85	8.66	32.12	48.47	74.00	-25.53	Horizontal
7311.00	33.09	36.37	11.71	31.91	49.26	74.00	-24.74	Horizontal
9748.00	33.75	38.27	14.25	31.56	54.71	74.00	-19.29	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	30.48	31.85	8.66	32.12	38.87	54.00	-15.13	Vertical
7311.00	22.79	36.37	11.71	31.91	38.96	54.00	-15.04	Vertical
9748.00	23.11	38.27	14.25	31.56	44.07	54.00	-9.93	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.18	31.85	8.66	32.12	38.57	54.00	-15.43	Horizontal
7311.00	22.18	36.37	11.71	31.91	38.35	54.00	-15.65	Horizontal
9748.00	23.46	38.27	14.25	31.56	44.42	54.00	-9.58	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	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	45.39	31.90	8.70	32.15	53.84	74.00	-20.16	Vertical
7386.00	35.29	36.49	11.76	31.83	51.71	74.00	-22.29	Vertical
9848.00	37.26	38.62	14.31	31.77	58.42	74.00	-15.58	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.62	31.90	8.70	32.15	53.07	74.00	-20.93	Horizontal
7386.00	34.15	36.49	11.76	31.83	50.57	74.00	-23.43	Horizontal
9848.00	33.41	38.62	14.31	31.77	54.57	74.00	-19.43	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	36.27	31.90	8.70	32.15	44.72	54.00	-9.28	Vertical
7386.00	25.19	36.49	11.76	31.83	41.61	54.00	-12.39	Vertical
9848.00	25.75	38.62	14.31	31.77	46.91	54.00	-7.09	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.95	31.90	8.70	32.15	43.40	54.00	-10.60	Horizontal
7386.00	23.53	36.49	11.76	31.83	39.95	54.00	-14.05	Horizontal
9848.00	22.66	38.62	14.31	31.77	43.82	54.00	-10.18	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:		802.11g		Tes	t 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	39.82	31.79	8.62	32.10	48.13	74.00	-25.87	Vertical
7236.00	33.92	36.19	11.68	31.97	49.82	74.00	-24.18	Vertical
9648.00	32.50	38.07	14.16	31.56	53.17	74.00	-20.83	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.56	31.79	8.62	32.10	46.87	74.00	-27.13	Horizontal
7236.00	33.70	36.19	11.68	31.97	49.60	74.00	-24.40	Horizontal
9648.00	32.09	38.07	14.16	31.56	52.76	74.00	-21.24	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	28.94	31.79	8.62	32.10	37.25	54.00	-16.75	Vertical
7236.00	22.79	36.19	11.68	31.97	38.69	54.00	-15.31	Vertical
9648.00	22.85	38.07	14.16	31.56	43.52	54.00	-10.48	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.12	31.79	8.62	32.10	36.43	54.00	-17.57	Horizontal
7236.00	22.29	36.19	11.68	31.97	38.19	54.00	-15.81	Horizontal
9648.00	21.85	38.07	14.16	31.56	42.52	54.00	-11.48	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:		802.11g		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	38.96	31.85	8.66	32.12	47.35	74.00	-26.65	Vertical
7311.00	34.04	36.37	11.71	31.91	50.21	74.00	-23.79	Vertical
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.50	31.85	8.66	32.12	47.89	74.00	-26.11	Horizontal
7311.00	32.71	36.37	11.71	31.91	48.88	74.00	-25.12	Horizontal
9748.00	33.46	38.27	14.25	31.56	54.42	74.00	-19.58	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:			l .			ļ.	
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	29.84	31.85	8.66	32.12	38.23	54.00	-15.77	Vertical
7311.00	22.36	36.37	11.71	31.91	38.53	54.00	-15.47	Vertical
9748.00	22.81	38.27	14.25	31.56	43.77	54.00	-10.23	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.63	31.85	8.66	32.12	38.02	54.00	-15.98	Horizontal
7311.00	21.81	36.37	11.71	31.91	37.98	54.00	-16.02	Horizontal
9748.00	23.18	38.27	14.25	31.56	44.14	54.00	-9.86	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		T	est ch	annel:	F	lighest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r /	Level (dBuV/m)	Limit Liı (dBuV/ı	Limit	polarization
4924.00	44.20	31.90	8.70	32.15	5	52.65	74.00	-21.35	Vertical
7386.00	34.53	36.49	11.76	31.83	3	50.95	74.00	-23.05	Vertical
9848.00	36.72	38.62	14.31	31.77	7	57.88	74.00	-16.12	Vertical
12310.00	*						74.00)	Vertical
14772.00	*						74.00)	Vertical
17234.00	*						74.00)	Vertical
4924.00	43.61	31.90	8.70	32.15	5	52.06	74.00	-21.94	Horizontal
7386.00	33.49	36.49	11.76	31.83	3	49.91	74.00	-24.09	Horizontal
9848.00	32.92	38.62	14.31	31.77	7	54.08	74.00	-19.92	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)	Pream Facto (dB)	or /	Level (dBuV/m)	Limit Lii (dBuV/i	l limit	polarization
4924.00	35.17	31.90	8.70	32.15	5	43.62	54.00	-10.38	Vertical
7386.00	24.47	36.49	11.76	31.83	3	40.89	54.00	-13.11	Vertical
9848.00	25.24	38.62	14.31	31.77	7	46.40	54.00	-7.60	Vertical
12310.00	*						54.00		Vertical
14772.00	*						54.00		Vertical
17234.00	*						54.00		Vertical
4924.00	34.01	31.90	8.70	32.15	5	42.46	54.00	-11.54	Horizontal
7386.00	22.89	36.49	11.76	31.83	3	39.31	54.00	-14.69	Horizontal
9848.00	22.19	38.62	14.31	31.77	7	43.35	54.00	-10.65	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:		802.11n(H	IT20)	Te	est channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	'	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.38	31.79	8.62	32.10	48.69	74.00	-25.31	Vertical
7236.00	34.27	36.19	11.68	31.97	50.17	74.00	-23.83	Vertical
9648.00	32.75	38.07	14.16	31.56	53.42	74.00	-20.58	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.04	31.79	8.62	32.10	47.35	74.00	-26.65	Horizontal
7236.00	34.02	36.19	11.68	31.97	49.92	74.00	-24.08	Horizontal
9648.00	32.33	38.07	14.16	31.56	53.00	74.00	-21.00	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.46	31.79	8.62	32.10	37.77	54.00	-16.23	Vertical
7236.00	23.14	36.19	11.68	31.97	39.04	54.00	-14.96	Vertical
9648.00	23.10	38.07	14.16	31.56	43.77	54.00	-10.23	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.57	31.79	8.62	32.10	36.88	54.00	-17.12	Horizontal
7236.00	22.60	36.19	11.68	31.97	38.50	54.00	-15.50	Horizontal
9648.00	22.07	38.07	14.16	31.56	42.74	54.00	-11.26	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	39.42	31.85	8.66	32.12	47.81	74.00	-26.19	Vertical
7311.00	34.33	36.37	11.71	31.91	50.50	74.00	-23.50	Vertical
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.89	31.85	8.66	32.12	48.28	74.00	-25.72	Horizontal
7311.00	32.97	36.37	11.71	31.91	49.14	74.00	-24.86	Horizontal
9748.00	33.65	38.27	14.25	31.56	54.61	74.00	-19.39	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	30.27	31.85	8.66	32.12	38.66	54.00	-15.34	Vertical
7311.00	22.65	36.37	11.71	31.91	38.82	54.00	-15.18	Vertical
9748.00	23.02	38.27	14.25	31.56	43.98	54.00	-10.02	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.00	31.85	8.66	32.12	38.39	54.00	-15.61	Horizontal
7311.00	22.06	36.37	11.71	31.91	38.23	54.00	-15.77	Horizontal
9748.00	23.37	38.27	14.25	31.56	44.33	54.00	-9.67	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:	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	45.00	31.90	8.70	32.15	53.45	74.00	-20.55	Vertical
7386.00	35.04	36.49	11.76	31.83	51.46	74.00	-22.54	Vertical
9848.00	37.08	38.62	14.31	31.77	58.24	74.00	-15.76	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.29	31.90	8.70	32.15	52.74	74.00	-21.26	Horizontal
7386.00	33.93	36.49	11.76	31.83	50.35	74.00	-23.65	Horizontal
9848.00	33.25	38.62	14.31	31.77	54.41	74.00	-19.59	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	35.91	31.90	8.70	32.15	44.36	54.00	-9.64	Vertical
7386.00	24.96	36.49	11.76	31.83	41.38	54.00	-12.62	Vertical
9848.00	25.58	38.62	14.31	31.77	46.74	54.00	-7.26	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.65	31.90	8.70	32.15	43.10	54.00	-10.90	Horizontal
7386.00	23.32	36.49	11.76	31.83	39.74	54.00	-14.26	Horizontal
9848.00	22.51	38.62	14.31	31.77	43.67	54.00	-10.33	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	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
4844.00	39.14	31.81	8.63	32.11		47.47	74.00		-26.53	Vertical
7266.00	33.49	36.28	11.69	31.94		49.52	74.00		-24.48	Vertical
9688.00	32.19	38.13	14.21	31.52		53.01	74.00		-20.99	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.99	31.81	8.63	32.11		46.32	74.	00	-27.68	Horizontal
7266.00	33.33	36.28	11.69	31.94		49.36	74.	00	-24.64	Horizontal
9688.00	31.81	38.13	14.21	31.52		52.63	74.	00	-21.37	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

5								
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	28.32	31.81	8.63	32.11	36.65	54.00	-17.35	Vertical
7266.00	22.38	36.28	11.69	31.94	38.41	54.00	-15.59	Vertical
9688.00	22.56	38.13	14.21	31.52	43.38	54.00	-10.62	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.59	31.81	8.63	32.11	35.92	54.00	-18.08	Horizontal
7266.00	21.93	36.28	11.69	31.94	37.96	54.00	-16.04	Horizontal
9688.00	21.58	38.13	14.21	31.52	42.40	54.00	-11.60	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	38.40	31.85	8.66	32.12		46.79	74.0	00	-27.21	Vertical
7311.00	33.69	36.37	11.71	31.91		49.86	74.0	00	-24.14	Vertical
9748.00	33.30	38.27	14.25	31.56		54.26	74.00		-19.74	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	39.03	31.85	8.66	32	.12	47.42	74.00		-26.58	Horizontal
7311.00	32.41	36.37	11.71	31	.91	48.58	74.00		-25.42	Horizontal
9748.00	33.23	38.27	14.25	31.56		54.19	74.00		-19.81	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	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	29.33	31.85	8.66	32	.12	37.72	54.0	00	-16.28	Vertical
7311.00	22.03	36.37	11.71	31	.91	38.20	54.0	00	-15.80	Vertical
9748.00	22.57	38.27	14.25	31	.56	43.53	54.0	00	-10.47	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.19	31.85	8.66	32	.12	37.58	54.0	00	-16.42	Horizontal
7311.00	21.51	36.37	11.71	31.91		37.68	54.0	00	-16.32	Horizontal
9748.00	22.95	38.27	14.25	31	.56	43.91	54.0	00	-10.09	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	43.24	31.88	8.68	32.13	51.67	74.00	-22.33	Vertical
7356.00	33.93	36.45	11.75	31.86	50.27	74.00	-23.73	Vertical
9808.00	36.29	38.43	14.29	31.68	57.33	74.00	-16.67	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.80	31.88	8.68	32.13	51.23	74.00	-22.77	Horizontal
7356.00	32.96	36.45	11.75	31.86	49.30	74.00	-24.70	Horizontal
9808.00	32.52	38.43	14.29	31.68	53.56	74.00	-20.44	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
4904.00	34.28	31.88	8.68	32.13	42.71	54.00	-11.29	Vertical
7356.00	23.88	36.45	11.75	31.86	40.22	54.00	-13.78	Vertical
9808.00	24.82	38.43	14.29	31.68	45.86	54.00	-8.14	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.25	31.88	8.68	32.13	41.68	54.00	-12.32	Horizontal
7356.00	22.38	36.45	11.75	31.86	38.72	54.00	-15.28	Horizontal
9808.00	21.80	38.43	14.29	31.68	42.84	54.00	-11.16	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

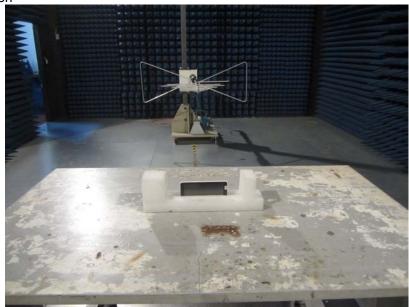
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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



8 Test Setup Photo

Radiated Emission







Conducted Emission





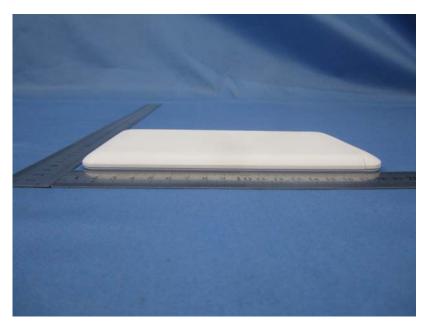
9 EUT Constructional Details



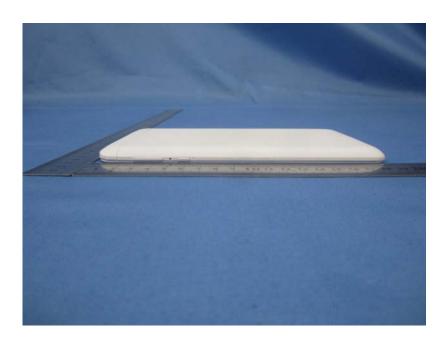


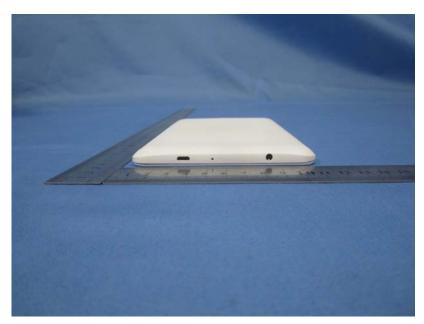




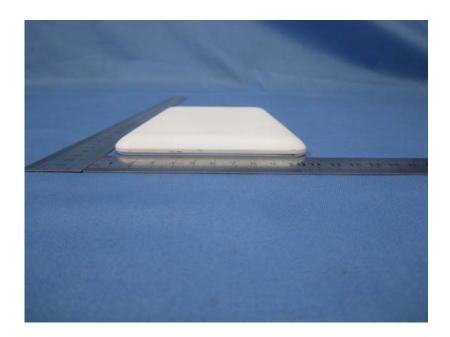












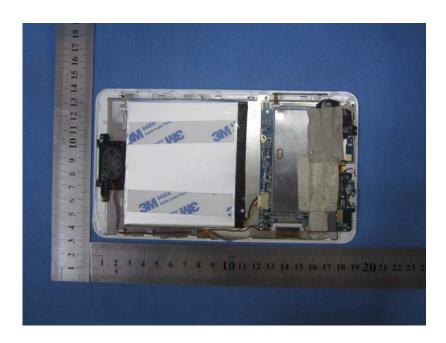






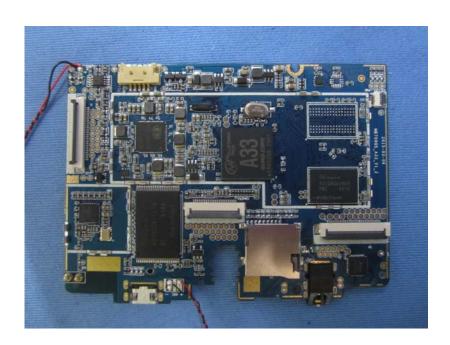


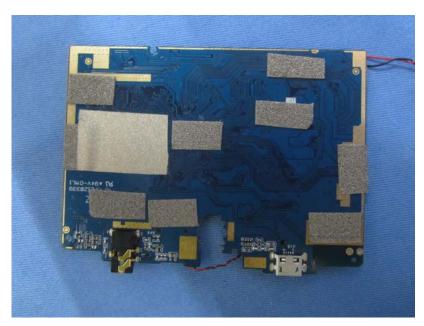


















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