

Global United Technology Services Co., Ltd.

Report No.: GTSE15050093601

FCC Report (WIFI)

AOC Applicant:

Address of Applicant: 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

City, Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: U107

Trade mark: AOC

FCC ID: 2AEB5-U107

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

Date of sample receipt: June 02, 2015

Date of Test: June 03-08, 2015

Date of report issued: June 08, 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	June 08, 2015	Original

Prepared By:	Bolward. Pan	Date:	June 08, 2015
	Project Engineer		
Check By:	hank. yan	Date:	June 08, 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.

4.1 Measurement Uncertainty

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

Remark: The EUT test according to ANSI C63.4:2009 and ANSI C63.10:2009.

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5 General Information

5.1 Client Information

Applicant:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan
Manufacturer/Factory:	AOC
Address of	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City,
Manufacturer/Factory:	Taiwan

5.2 General Description of EUT

Product Name:	Tablet PC	
Model No.:	U107	
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:	PIFA antenna	
Antenna gain:	2dBi (declare by Applicant)	
Power supply:	Adapter:	
	Model No.: K-E3A	
	Input: AC 100-240V, 50/60Hz, 0.35A Max	
	Output: DC 5.0V, 2000mA	
	or	
	DC 3.7V Li-ion Battery 5800mAh	



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

Note:

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

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode	(dutycycle>98%)
-------------------	--	-----------------

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

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

5.4 Description of Support Units

None.

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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

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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	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	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	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 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.

E.U.T Antenna:

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





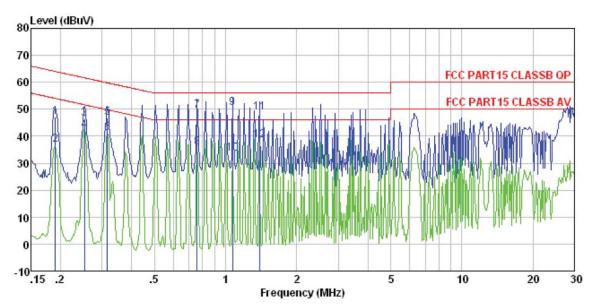
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2009			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Limit:	Fraguency range (MHz)	Limit (d	lBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5 5-30	<u>56</u> 60	46	
	* Decreases with the logarithm		50	
Test setup:	Reference Plane			
Test procedure:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m			
rest 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 C63.10:2009 on conducted measurement. 			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



Measurement data

Line:



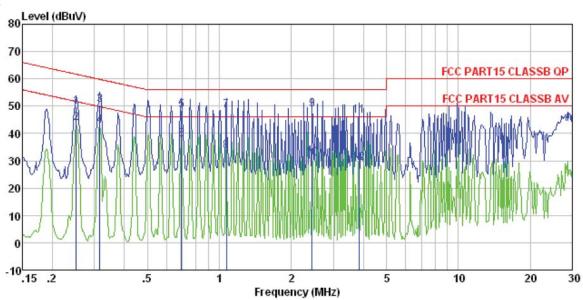
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0936RF Test mode : WiFi mode Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.190	46.71	0.14	0.13	46.98		-17.04	
2	0.190	36.39	0.14	0.13	36.66	54.02	-17.36	Average
3	0.253	46.28	0.12	0.11	46.51	61.64	-15.13	QP
4	0.253	41.85	0.12	0.11	42.08	51.64	-9.56	Average
5	0.317	46.71	0.11	0.10	46.92	59.80	-12.88	QP
6	0.317	40.87	0.11	0.10	41.08	49.80	-8.72	Average
2 3 4 5 6 7	0.759	49.34	0.14	0.13	49.61	56.00	-6.39	QP
8	0.759	35.40	0.14	0.13	35.67	46.00	-10.33	Average
9	1.071	50.15	0.14	0.13	50.42	56.00	-5.58	
10	1.071	33.19	0.14	0.13	33.46	46.00		Average
11	1.388	48.65	0.12	0.13	48.90	56.00	-7.10	QP
12	1.388	38.40	0.12	0.13	38.65	46.00		Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0936RF Test mode : WiFi mode

Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
9	MHz	dBuV	dB	₫B	dBu₹	dBuV	dB	
1 2 3 4 5 6 7 8 9	0. 252 0. 252 0. 317 0. 317 0. 694 0. 694 1. 071 1. 071 2. 448 2. 448	49.65 43.54 50.17 42.78 48.15 37.70 48.34 33.46 48.64 30.52	0.06 0.06 0.06 0.06 0.07 0.07 0.07 0.07	0.11 0.11 0.10 0.10 0.13 0.13 0.13 0.13	49. 82 43. 71 50. 33 42. 94 48. 35 37. 90 48. 54 33. 66 48. 89 30. 77	51.69 59.80 49.80 56.00 46.00 56.00 46.00 56.00 46.00	-9. 47 -6. 86 -7. 65 -8. 10 -7. 46 -12. 34 -7. 11 -15. 23	Average QP Average QP Average QP Average QP Average QP Average
11 12	3. 840 3. 840	46. 15 28. 77	0.14 0.14	0.15 0.15	46. 44 29. 06	56.00 46.00	-9.56 -16.94	QP 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

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	30dBm		
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	rtesuit
Lowest	7.70	7.58	7.62	7.47		
Middle	7.67	7.41	7.60	7.44	30.00	Pass
Highest	7.80	7.66	7.76	7.41		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2009 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		

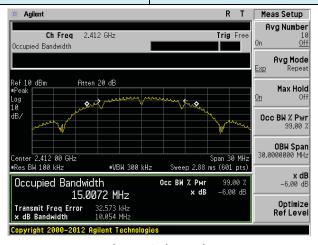
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lilliit(Ki iZ)	Result
Lowest	10.054	16.360	17.665	35.818		
Middle	9.589	16.432	17.710	35.863	>500	Pass
Highest	9.632	16.436	17.648	35.919		

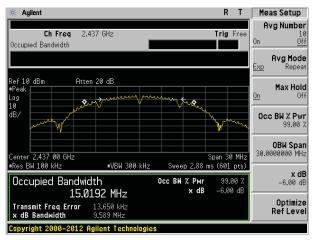
Test plot as follows:



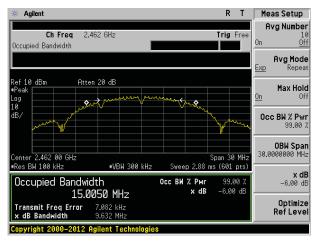
Test mode: 802.11b



Lowest channel



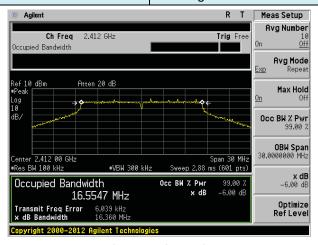
Middle channel



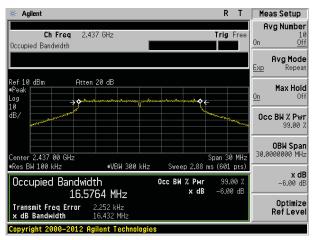
Highest channel



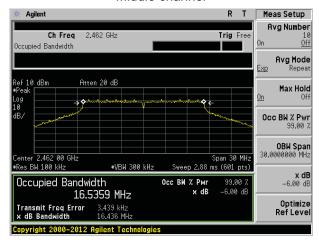
Test mode: 802.11g



Lowest channel



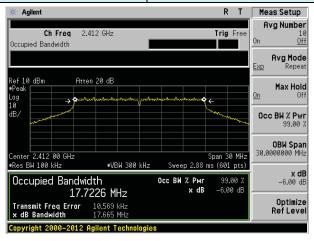
Middle channel



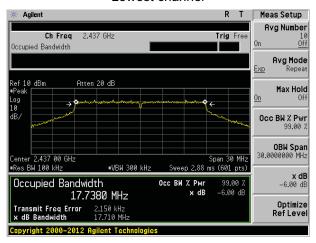
Highest channel



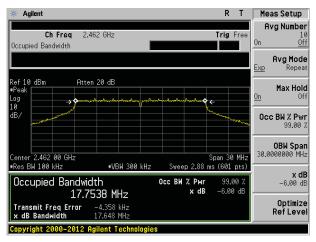
Test mode: 802.11n(HT20)



Lowest channel



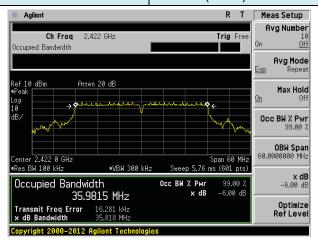
Middle channel



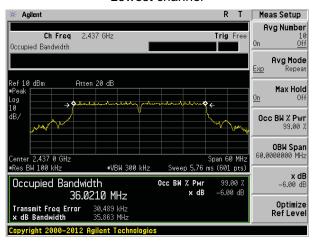
Highest channel



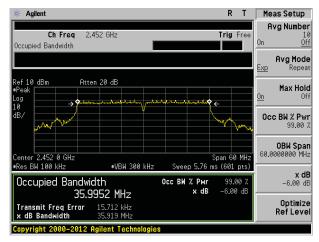
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2009 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

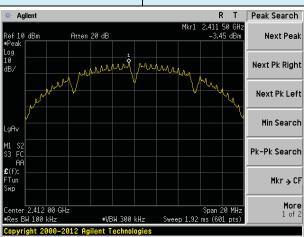
Tost CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII(UBIII/3KHZ)	Result
Lowest	-3.45	-6.75	-6.82	-10.04		
Middle	-3.76	-7.53	-7.25	-9.35	8.00	Pass
Highest	-3.70	-7.41	-6.97	-9.23		

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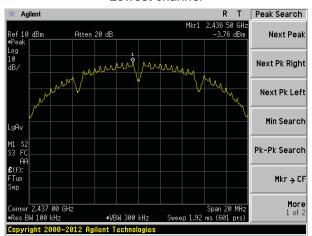


Test plot as follows:

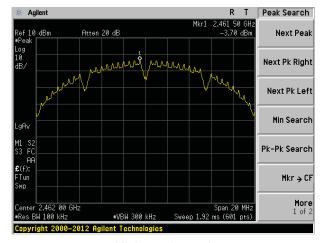
Test mode: 802.11b



Lowest channel



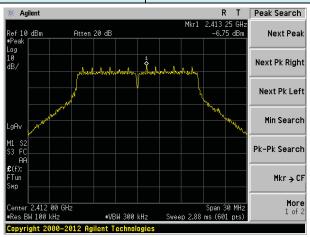
Middle channel



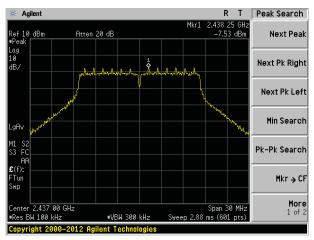
Highest channel



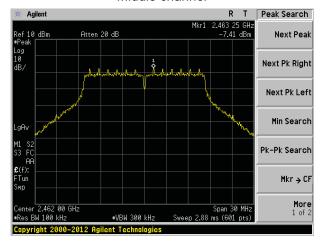
Test mode: 802.11g



Lowest channel



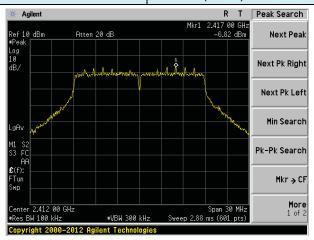
Middle channel



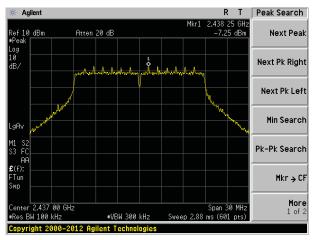
Highest channel



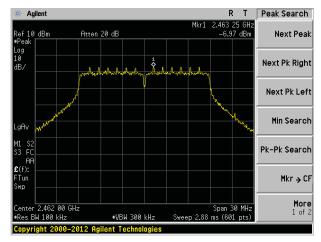
Test mode: 802.11n(HT20)



Lowest channel



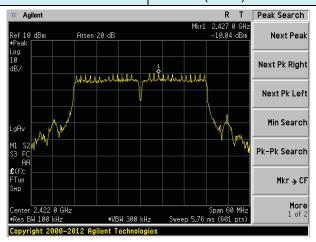
Middle channel



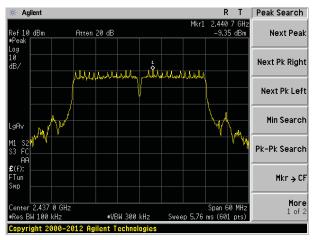
Highest channel



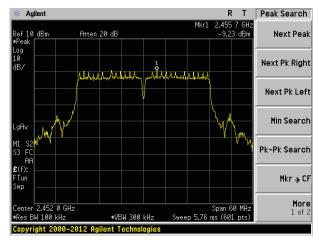
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



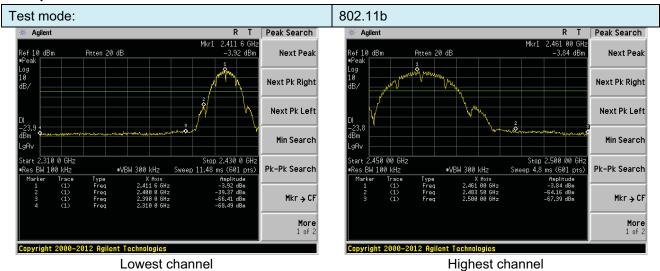
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)		
·			
Test Method:	ANSI C63.10:2009 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		

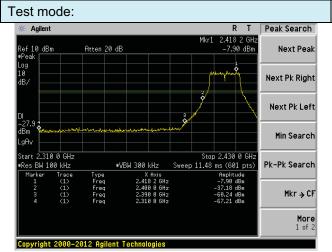


Test plot as follows:

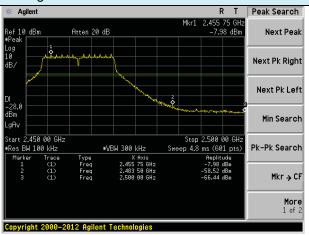


Lowest channel

802.11g



Lowest channel



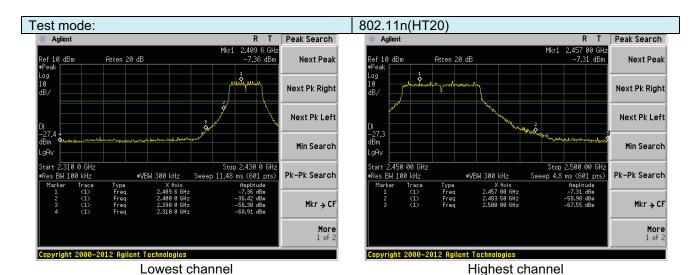
Highest channel

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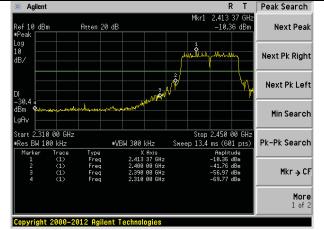


Test mode:

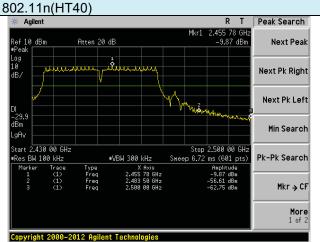
Report No.: GTSE15050093601







Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.10:2009							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency Detector RBW VBW Value							
·		Peak	1MHz	3MHz	Peak			
	Above 1GHz	RMS	1MHz	3MHz	Average			
Limit:	Freque	ncy	Limit (dBuV/		Value			
	Above 1	GHz	54.0 74.0		Average Peak			
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Tuble Amplifier							
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. And found the Y axis positioning which it is worse case, only the test 							
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.3 for details	3					
Test results:	Pass							

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Lowest

Measurement data:

Test mode:

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 channel:

802.11b

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	51.66	27.59	5.38	34.01	50.62	74.00	-23.38	Horizontal
2400.00	60.68	27.58	5.39	34.01	59.64	74.00	-14.36	Horizontal
2390.00	53.35	27.59	5.38	34.01	52.31	74.00	-21.69	Vertical
2400.00	62.48	27.58	5.39	34.01	61.44	74.00	-12.56	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	I Factor I		Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.42	27.59	5.38	34.01	37.38	54.00	-16.62	Horizontal
2400.00	46.72	27.58	5.39	34.01	45.68	54.00	-8.32	Horizontal
2390.00	40.24	27.59	5.38	34.01	39.20	54.00	-14.80	Vertical
2400.00	47.84	27.58	5.39	34.01	46.80	54.00	-7.20	Vertical
Test mode:		802.1	1b	Tes	st channel:	Highest		
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
2483.50	52.33	27.53	5.47	33.92	51.41	74.00	-22.59	Horizontal
2500.00	48.15	27.55	5.49	29.93	51.26	74.00	-22.74	Horizontal
2483.50	54.59	27.53	5.47	33.92	53.67	74.00	-20.33	Vertical
2500.00	50.66	27.55	5.49	29.93	53.77	74.00	-20.23	Vertical
Average va	lue:							
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	Dala da dia

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	38.79	27.53	5.47	33.92	37.87	54.00	-16.13	Horizontal
2500.00	34.89	27.55	5.49	29.93	38.00	54.00	-16.00	Horizontal
2483.50	40.74	27.53	5.47	33.92	39.82	54.00	-14.18	Vertical
2500.00	36.77	27.55	5.49	29.93	39.88	54.00	-14.12	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	Test channel:			Lowest	
Peak value	:	<u>'</u>		•		<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.46	27.59	5.38	34.01	49.42	74.00	-24.58	Horizontal
2400.00	59.08	27.58	5.39	34.01	58.04	74.00	-15.96	Horizontal
2390.00	52.06	27.59	5.38	34.01	51.02	74.00	-22.98	Vertical
2400.00	60.55	27.58	5.39	34.01	59.51	74.00	-14.49	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	37.57	27.59	5.38	34.01	36.53	54.00	-17.47	Horizontal
2400.00	45.73	27.58	5.39	34.01	44.69	54.00	-9.31	Horizontal
2390.00	39.29	27.59	5.38	34.01	38.25	54.00	-15.75	Vertical
2400.00	46.77	27.58	5.39	34.01	45.73	54.00	-8.27	Vertical
Test mode:	est mode: 802.11g Test channel: Higher		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	50.61	27.53	5.47	33.92	49.69	74.00	-24.31	Horizontal
2500.00	46.82	27.55	5.49	29.93	49.93	74.00	-24.07	Horizontal
2483.50	52.63	27.53	5.47	33.92	51.71	74.00	-22.29	Vertical
2500.00	49.10	27.55	5.49	29.93	52.21	74.00	-21.79	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization
2483.50	37.75	27.53	5.47	33.92	36.83	54.00	-17.17	Horizontal
2500.00	34.08	27.55	5.49	29.93	37.19	54.00	-16.81	Horizontal
2483.50	39.59	27.53	5.47	33.92	38.67	54.00	-15.33	Vertical
		27.53 27.55	5.47 5.49	33.92 29.93	38.67 39.02	54.00 54.00	-15.33 -14.98	Vertical Vertical

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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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Report No.: GTSE15050093601

Test mode:			802.1	1n(HT20)		Test channel:			Lowest		
Peak value:											
Frequency (MHz)	Read Level (dBuV)	Fac	tenna Cable actor Loss B/m) (dB)		Preamp Factor (dB)		Level (dBuV/m)	Limit Line	I I imit	Polarization	
2390.00	50.61	27.	.59	5.38	34.0	1	49.57	74.00	-24.43	Horizontal	
2400.00	59.27	27.	.58	5.39	34.0	1	58.23	74.00	-15.77	Horizontal	
2390.00	52.22	27.	.59	5.38	34.0	1	51.18	74.00	-22.82	Vertical	
2400.00	60.79	27.	.58	5.39	34.0	1	59.75	74.00	-14.25	Vertical	
Average va	lue:										
Frequency (MHz)	Read Level (dBuV)	Fac	Antenna Cable Factor Loss (dB/m) (dB)		Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2390.00	37.67	27.	.59	5.38	34.0	1	36.63	54.00	-17.37	Horizontal	
2400.00	45.85	27.	.58	5.39	34.01		44.81	54.00	-9.19	Horizontal	
2390.00	39.41	27.	.59	5.38	34.0	1	38.37	54.00	-15.63	Vertical	
2400.00	46.90	27.	27.58 5		34.01		45.86	54.00	-8.14	Vertical	
Test mode:	Test mode:		802.1	.11n(HT20)		Test channel:			Highest		
Peak value:		r							_	,	
Frequency (MHz)	Read Level (dBuV)	Fac	enna ctor s/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2483.50	50.82	27.	.53	5.47	33.9	2	49.90	74.00	-24.10	Horizontal	
2500.00	46.98	27.	.55	5.49	29.9	3	50.09	74.00	-23.91	Horizontal	
2483.50	52.86	27.	.53	5.47	33.9	2	51.94	74.00	-22.06	Vertical	
2500.00	49.29	27.	.55	5.49	29.93		52.40	74.00	-21.60	Vertical	
Average va	lue:	ı			1		T			, ,	
Frequency (MHz)	Read Level (dBuV)	Fac	enna ctor s/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2483.50	37.88	27.	.53	5.47	33.9	2	36.96	54.00	-17.04	Horizontal	
2500.00	34.18	27.	.55	5.49	29.9	3	37.29	54.00	-16.71	Horizontal	
2483.50	39.73	27.	.53	5.47	33.9	2	38.81	54.00	-15.19	Vertical	
2500.00	36.02	27.	.55	5.49	29.9	3	39.13	54.00	-14.87	Vertical	

Remark: 1.

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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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Report No.: GTSE15050093601

Project No.: GTSE150500936RF

Test mode:		802.1	1n(HT40)	Test channel:			Lowest		
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)	I I imit	Polarization
2390.00	49.75	27.59	5.38	34.0	1	48.71	74.00	-25.29	Horizontal
2400.00	58.13	27.58	5.39	34.0	1	57.09	74.00	-16.91	Horizontal
2390.00	51.30	27.59	5.38	34.0	1	50.26	74.00	-23.74	Vertical
2400.00	59.41	27.58	5.39	34.0	1	58.37	74.00	-15.63	Vertical
Average va	lue:							_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	or Loss F		mp or)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.06	27.59	5.38	34.0	1	36.02	54.00	-17.98	Horizontal
2400.00	45.15	27.58	5.39	34.0	1	44.11	54.00	-9.89	Horizontal
2390.00	38.73	27.59	5.38	8 34.01		37.69	54.00	-16.31	Vertical
2400.00	46.13	27.58	5.39	34.0	1	45.09	54.00	-8.91	Vertical
Test mode:	t mode: 802.11n(HT40) Test channel:			Highest					
Peak value	:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	49.59	27.53	5.47	33.9	2	48.67	74.00	-25.33	Horizontal
2500.00	46.03	27.55	5.49	29.9	3	49.14	74.00	-24.86	Horizontal
2483.50	51.46	27.53	5.47	33.9	2	50.54	74.00	-23.46	Vertical
2500.00	48.18	27.55	5.49	29.9	3	51.29	74.00	-22.71	Vertical
Average va	lue:	T	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)	I I imit	Polarization
2483.50	37.14	27.53	5.47	33.9	2	36.22	54.00	-17.78	Horizontal
2500.00	33.60	27.55	5.49	29.9	3	36.71	54.00	-17.29	Horizontal
2483.50	38.91	27.53	5.47	33.9	2	37.99	54.00	-16.01	Vertical
2500.00	35.41	27.55	5.49	29.9	3	38.52	54.00	-15.48	Vertical

Remark:

- 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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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2009 and KDB558074 D01 DTS Meas Guidance V03						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

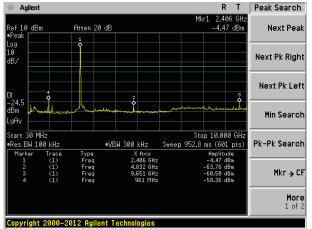


Test plot as follows:

Test mode:

802.11b

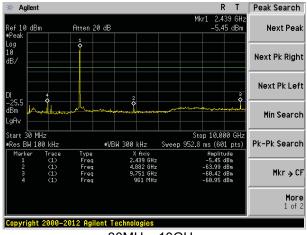
Lowest channel



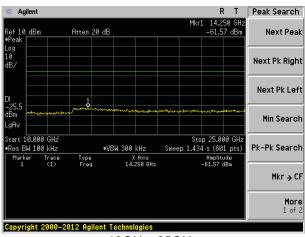
30MHz~10GHz

10GHz~25GHz

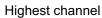
Middle channel

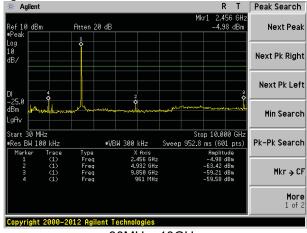


30MHz~10GHz

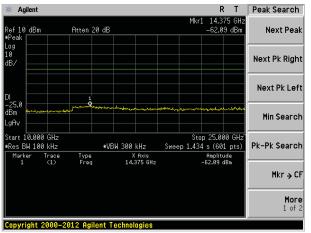


10GHz~25GHz





30MHz~10GHz



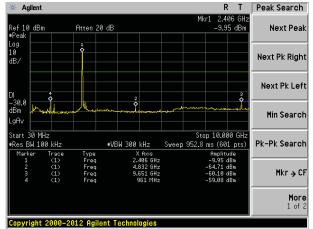
10GHz~25GHz



Test mode:

802.11g

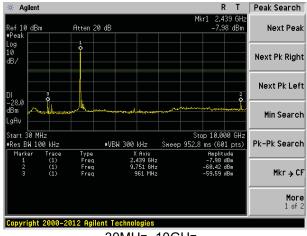
Lowest channel



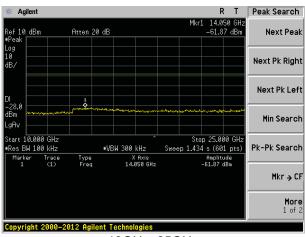
30MHz~10GHz

10GHz~25GHz

Middle channel

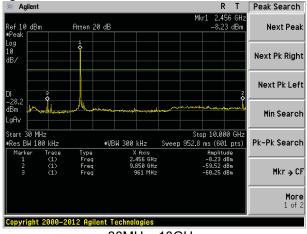


30MHz~10GHz

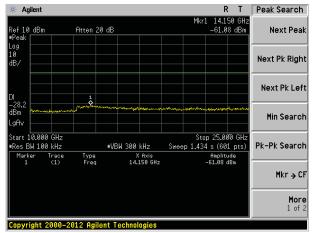


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



14.400 GH -62.00 dBm

R T Peak Search

Next Peak

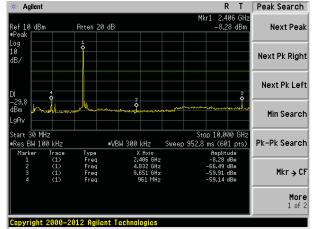
Test mode:

802.11n(HT20)

Atten 20 dB

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Lowest channel

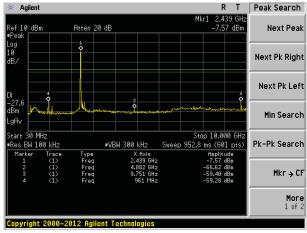


30MHz~10GHz

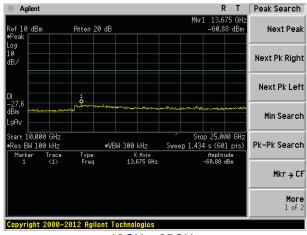
10 dB/ dB/ dB/ DI -29.8 dBm LgAv Start 10.000 GHz *Res BM 100 kHz *Res BM 100 kHz *Res BM 100 kHz *Trace 1 (1) Type 14.480 GHz *Trace 1 (1) Type 14.480 GHz *Mxis Freq 14.480 GHz *Mxis Freq 16.200 dBm Mkr → CF

10GHz~25GHz

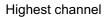
Middle channel

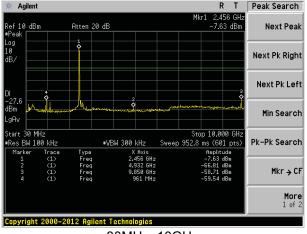


30MHz~10GHz

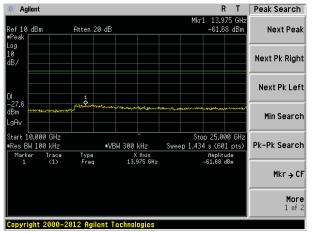


10GHz~25GHz





30MHz~10GHz



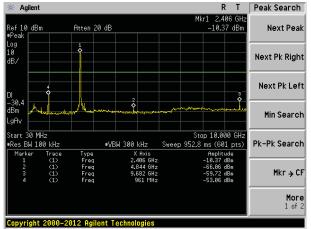
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

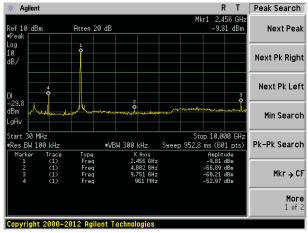


30MHz~10GHz

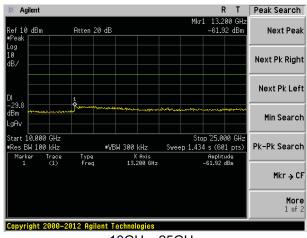
Peak Search 13.925 GHz –61.82 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search _gAv Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz Pk-Pk Search Res BW 100 kHz #VBW 300 kHz Type Freq X fixis 13.925 GHz Amplitude -61.82 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

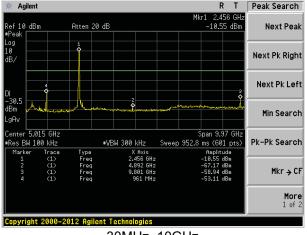


30MHz~10GHz

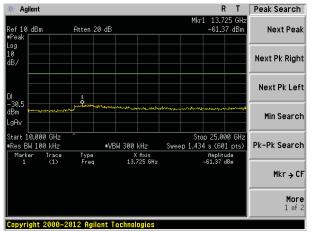


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:2009									
Test Frequency Range:	30MHz to 25GHz	-								
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency Detector RBW VBW Value									
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
	Above 4011	Peak	1MHz	3MHz	Peak					
	Above 1GHz	RMS	1MHz	3MHz	Average					
Limit:	Frequency Limit (dBuV/m @3m) Value									
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	GHz	54.0	0	Quasi-peak					
	Above 10	` ⊔-	54.0	0	Average					
	Above 10	JI 12	74.0	0	Peak					
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane									



	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	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
31.73	50.71	14.32	0.57	30.09	35.51	40.00	-4.49	Vertical
43.20	46.16	15.56	0.70	30.03	32.39	40.00	-7.61	Vertical
111.35	47.69	14.04	1.29	29.62	33.40	43.50	-10.10	Vertical
207.12	30.15	12.80	1.88	29.27	15.56	43.50	-27.94	Vertical
432.55	29.50	17.53	3.01	29.43	20.61	46.00	-25.39	Vertical
734.49	24.06	21.24	4.22	29.20	20.32	46.00	-25.68	Vertical
36.25	41.90	14.63	0.62	30.06	27.09	40.00	-12.91	Horizontal
49.88	39.25	15.26	0.77	30.00	25.28	40.00	-14.72	Horizontal
62.65	41.35	13.63	0.88	29.90	25.96	40.00	-14.04	Horizontal
112.92	39.81	13.73	1.30	29.61	25.23	43.50	-18.27	Horizontal
187.75	39.72	12.32	1.78	29.25	24.57	43.50	-18.93	Horizontal
451.14	30.42	17.58	3.09	29.39	21.70	46.00	-24.30	Horizontal

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Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:		<u> </u>						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.89	31.79	8.62	32.10	49.20	74.00	-24.80	Vertical
7236.00	34.60	36.19	11.68	31.97	50.50	74.00	-23.50	Vertical
9648.00	32.98	38.07	14.16	31.56	53.65	74.00	-20.35	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.47	31.79	8.62	32.10	47.78	74.00	-26.22	Horizontal
7236.00	34.30	36.19	11.68	31.97	50.20	74.00	-23.80	Horizontal
9648.00	32.54	38.07	14.16	31.56	53.21	74.00	-20.79	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.93	31.79	8.62	32.10	38.24	54.00	-15.76	Vertical
7236.00	23.45	36.19	11.68	31.97	39.35	54.00	-14.65	Vertical
9648.00	23.32	38.07	14.16	31.56	43.99	54.00	-10.01	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.97	31.79	8.62	32.10	37.28	54.00	-16.72	Horizontal
7236.00	22.87	36.19	11.68	31.97	38.77	54.00	-15.23	Horizontal
9648.00	22.28	38.07	14.16	31.56	42.95	54.00	-11.05	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Project No.: GTSE150500936RF

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

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



Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.84	31.85	8.66	32.12	48.23	74.00	-25.77	Vertical
7311.00	34.60	36.37	11.71	31.91	50.77	74.00	-23.23	Vertical
9748.00	33.96	38.27	14.25	31.56	54.92	74.00	-19.08	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.25	31.85	8.66	32.12	48.64	74.00	-25.36	Horizontal
7311.00	33.20	36.37	11.71	31.91	49.37	74.00	-24.63	Horizontal
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	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	30.66	31.85	8.66	32.12	39.05	54.00	-14.95	Vertical
7311.00	22.91	36.37	11.71	31.91	39.08	54.00	-14.92	Vertical
9748.00	23.20	38.27	14.25	31.56	44.16	54.00	-9.84	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.33	31.85	8.66	32.12	38.72	54.00	-15.28	Horizontal
7311.00	22.28	36.37	11.71	31.91	38.45	54.00	-15.55	Horizontal
9748.00	23.53	38.27	14.25	31.56	44.49	54.00	-9.51	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Te	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i revei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.73	31.90	8.70	32.15	54.18	74.00	-19.82	Vertical
7386.00	35.50	36.49	11.76	31.83	51.92	74.00	-22.08	Vertical
9848.00	37.41	38.62	14.31	31.77	58.57	74.00	-15.43	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.90	31.90	8.70	32.15	53.35	74.00	-20.65	Horizontal
7386.00	34.34	36.49	11.76	31.83	50.76	74.00	-23.24	Horizontal
9848.00	33.55	38.62	14.31	31.77	54.71	74.00	-19.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i revei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.58	31.90	8.70	32.15	45.03	54.00	-8.97	Vertical
7386.00	25.40	36.49	11.76	31.83	41.82	54.00	-12.18	Vertical
9848.00	25.90	38.62	14.31	31.77	47.06	54.00	-6.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.22	31.90	8.70	32.15	43.67	54.00	-10.33	Horizontal
7386.00	23.71	36.49	11.76	31.83	40.13	54.00	-13.87	Horizontal
9848.00	22.80	38.62	14.31	31.77	43.96	54.00	-10.04	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		7	Test o	channel:		lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	39.42	31.79	8.62	32.1	0	47.73	74.	00	-26.27	Vertical
7236.00	33.67	36.19	11.68	31.9	7	49.57	74.	00	-24.43	Vertical
9648.00	32.32	38.07	14.16	31.5	6	52.99	74.	00	-21.01	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.22	31.79	8.62	32.1	0	46.53	74.	00	-27.47	Horizontal
7236.00	33.48	36.19	11.68	31.9	7	49.38	74.	00	-24.62	Horizontal
9648.00	31.93	38.07	14.16	31.5	6	52.60	74.	00	-21.40	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)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	28.57	31.79	8.62	32.1	0	36.88	54.	00	-17.12	Vertical
7236.00	22.55	36.19	11.68	31.9	7	38.45	54.	00	-15.55	Vertical
9648.00	22.68	38.07	14.16	31.5	6	43.35	54.	00	-10.65	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertica
4824.00	27.81	31.79	8.62	32.1	0	36.12	54.	00	-17.88	Horizontal
7236.00	22.08	36.19	11.68	31.9	7	37.98	54.	00	-16.02	Horizontal
9648.00	21.69	38.07	14.16	31.5	6	42.36	54.	00	-11.64	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. " \ast ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		-	Test channel:		Middl	е		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pread Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.63	31.85	8.66	32.1	12	47.02	74.0	00	-26.98	Vertical
7311.00	33.83	36.37	11.71	31.9	91	50.00	74.0	00	-24.00	Vertical
9748.00	33.41	38.27	14.25	31.5	56	54.37	74.0	00	-19.63	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	39.22	31.85	8.66	32.1	12	47.61	74.0	00	-26.39	Horizontal
7311.00	32.53	36.37	11.71	31.9	91	48.70	74.0	00	-25.30	Horizontal
9748.00	33.32	38.27	14.25	31.5	56	54.28	74.0	00	-19.72	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)	Pread Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.54	31.85	8.66	32.1	12	37.93	54.0	00	-16.07	Vertical
7311.00	22.16	36.37	11.71	31.9	91	38.33	54.0	00	-15.67	Vertical
9748.00	22.67	38.27	14.25	31.5	56	43.63	54.0	00	-10.37	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.37	31.85	8.66	32.1	12	37.76	54.0	00	-16.24	Horizontal
7311.00	21.63	36.37	11.71	31.9	91	37.80	54.0	00	-16.20	Horizontal
9748.00	23.05	38.27	14.25	31.5	56	44.01	54.0	00	-9.99	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. " \ast ", 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	43.63	31.90	8.70	32.15	52.08	74.00	-21.92	Vertical
7386.00	34.18	36.49	11.76	31.83	50.60	74.00	-23.40	Vertical
9848.00	36.47	38.62	14.31	31.77	57.63	74.00	-16.37	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.13	31.90	8.70	32.15	51.58	74.00	-22.42	Horizontal
7386.00	33.18	36.49	11.76	31.83	49.60	74.00	-24.40	Horizontal
9848.00	32.68	38.62	14.31	31.77	53.84	74.00	-20.16	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.65	31.90	8.70	32.15	43.10	54.00	-10.90	Vertical
7386.00	24.12	36.49	11.76	31.83	40.54	54.00	-13.46	Vertical
9848.00	24.99	38.62	14.31	31.77	46.15	54.00	-7.85	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.56	31.90	8.70	32.15	42.01	54.00	-11.99	Horizontal
7386.00	22.59	36.49	11.76	31.83	39.01	54.00	-14.99	Horizontal
9848.00	21.96	38.62	14.31	31.77	43.12	54.00	-10.88	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)	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	40.49	31.79	8.62	32.10	48.80	74.00	-25.20	Vertical
7236.00	34.34	36.19	11.68	31.97	50.24	74.00	-23.76	Vertical
9648.00	32.80	38.07	14.16	31.56	53.47	74.00	-20.53	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.12	31.79	8.62	32.10	47.43	74.00	-26.57	Horizontal
7236.00	34.07	36.19	11.68	31.97	49.97	74.00	-24.03	Horizontal
9648.00	32.37	38.07	14.16	31.56	53.04	74.00	-20.96	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	29.55	31.79	8.62	32.10	37.86	54.00	-16.14	Vertical
7236.00	23.20	36.19	11.68	31.97	39.10	54.00	-14.90	Vertical
9648.00	23.14	38.07	14.16	31.56	43.81	54.00	-10.19	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.65	31.79	8.62	32.10	36.96	54.00	-17.04	Horizontal
7236.00	22.65	36.19	11.68	31.97	38.55	54.00	-15.45	Horizontal
9648.00	22.12	38.07	14.16	31.56	42.79	54.00	-11.21	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	T20)		Test	channel:	N	/liddle	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (d	ctor	Level (dBuV/m)	Limit Li (dBuV/	l limit	polarization
4874.00	39.51	31.85	8.66	32.	.12	47.90	74.00	-26.10	Vertical
7311.00	34.39	36.37	11.71	31.	.91	50.56	74.00	-23.44	Vertical
9748.00	33.80	38.27	14.25	31.	.56	54.76	74.00	-19.24	Vertical
12185.00	*						74.00)	Vertical
14622.00	*						74.00)	Vertical
17059.00	*						74.00)	Vertical
4874.00	39.96	31.85	8.66	32.	.12	48.35	74.00	-25.65	Horizontal
7311.00	33.02	36.37	11.71	31.	.91	49.19	74.00	-24.81	Horizontal
9748.00	33.69	38.27	14.25	31.	.56	54.65	74.00	-19.35	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)	Prea Fac (d	ctor	Level (dBuV/m)	Limit Li (dBuV/	l limit	polarization
4874.00	30.35	31.85	8.66	32.	.12	38.74	54.00	-15.26	Vertical
7311.00	22.70	36.37	11.71	31.	.91	38.87	54.00	-15.13	Vertical
9748.00	23.05	38.27	14.25	31.	.56	44.01	54.00	-9.99	Vertical
12185.00	*						54.00)	Vertical
14622.00	*						54.00)	Vertical
17059.00	*						54.00)	Vertical
4874.00	30.07	31.85	8.66	32.	.12	38.46	54.00	-15.54	Horizontal
7311.00	22.10	36.37	11.71	31.	.91	38.27	54.00	-15.73	Horizontal
9748.00	23.40	38.27	14.25	31.	.56	44.36	54.00	-9.64	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:		802.11n(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	45.15	31.90	8.70	32.15	53.60	74.00	-20.40	4924.00
7386.00	35.14	36.49	11.76	31.83	51.56	74.00	-22.44	7386.00
9848.00	37.15	38.62	14.31	31.77	58.31	74.00	-15.69	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.42	31.90	8.70	32.15	52.87	74.00	-21.13	Horizontal
7386.00	34.02	36.49	11.76	31.83	50.44	74.00	-23.56	Horizontal
9848.00	33.31	38.62	14.31	31.77	54.47	74.00	-19.53	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.05	31.90	8.70	32.15	44.50	54.00	-9.50	Vertical
7386.00	25.05	36.49	11.76	31.83	41.47	54.00	-12.53	Vertical
9848.00	25.65	38.62	14.31	31.77	46.81	54.00	-7.19	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.77	31.90	8.70	32.15	43.22	54.00	-10.78	Horizontal
7386.00	23.40	36.49	11.76	31.83	39.82	54.00	-14.18	Horizontal
9848.00	22.57	38.62	14.31	31.77	43.73	54.00	-10.27	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(HT40)			Test	channel:		Lowe	est	
Peak value:		•								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	38.98	31.81	8.63	32.11		47.31	74.00		-26.69	Vertical
7266.00	33.39	36.28	11.69	31.94		49.42	74.00		-24.58	Vertical
9688.00	32.12	38.13	14.21	31.52		52.94	74.00		-21.06	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.85	31.81	8.63	32.11		46.18	74.	00	-27.82	Horizontal
7266.00	33.24	36.28	11.69	31.94		49.27	74.	00	-24.73	Horizontal
9688.00	31.74	38.13	14.21	31.52		52.56	74.	00	-21.44	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	28.17	31.81	8.63	32.11	36.50	54.00	-17.50	Vertical
7266.00	22.28	36.28	11.69	31.94	38.31	54.00	-15.69	Vertical
9688.00	22.49	38.13	14.21	31.52	43.31	54.00	-10.69	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.46	31.81	8.63	32.11	35.79	54.00	-18.21	Horizontal
7266.00	21.85	36.28	11.69	31.94	37.88	54.00	-16.12	Horizontal
9688.00	21.51	38.13	14.21	31.52	42.33	54.00	-11.67	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	38.26	31.85	8.66	32.12		46.65	74.00		-27.35	Vertical
7311.00	33.60	36.37	11.71	31.91		49.77	74.00		-24.23	Vertical
9748.00	33.24	38.27	14.25	31.56		54.20	74.00		-19.80	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.91	31.85	8.66	32.12		47.30	74.00		-26.70	Horizontal
7311.00	32.33	36.37	11.71	31	.91	48.50	74.00		-25.50	Horizontal
9748.00	33.17	38.27	14.25	31.56		54.13	74.00		-19.87	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val			T	1					1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.20	31.85	8.66	32	2.12	37.59	54.	00	-16.41	Vertical
7311.00	21.94	36.37	11.71	31	.91	38.11	54.	00	-15.89	Vertical
9748.00	22.51	38.27	14.25	31	.56	43.47	54.	00	-10.53	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.08	31.85	8.66	32	2.12	37.47	54.	00	-16.53	Horizontal
7311.00	21.44	36.37	11.71	31	.91	37.61	54.	00	-16.39	Horizontal
9748.00	22.90	38.27	14.25	31	.56	43.86	54.	00	-10.14	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	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	43.01	31.88	8.68	32.13	51.44	74.00	-22.56	Vertical
7356.00	33.78	36.45	11.75	31.86	50.12	74.00	-23.88	Vertical
9808.00	36.18	38.43	14.29	31.68	57.22	74.00	-16.78	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.60	31.88	8.68	32.13	51.03	74.00	-22.97	Horizontal
7356.00	32.83	36.45	11.75	31.86	49.17	74.00	-24.83	Horizontal
9808.00	32.42	38.43	14.29	31.68	53.46	74.00	-20.54	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	34.07	31.88	8.68	32.13	42.50	54.00	-11.50	Vertical
7356.00	23.74	36.45	11.75	31.86	40.08	54.00	-13.92	Vertical
9808.00	24.72	38.43	14.29	31.68	45.76	54.00	-8.24	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.07	31.88	8.68	32.13	41.50	54.00	-12.50	Horizontal
7356.00	22.25	36.45	11.75	31.86	38.59	54.00	-15.41	Horizontal
9808.00	21.71	38.43	14.29	31.68	42.75	54.00	-11.25	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





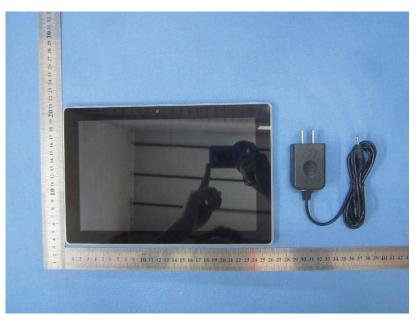


Conducted Emission





9 EUT Constructional Details















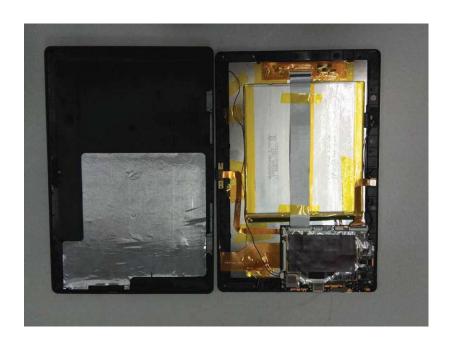


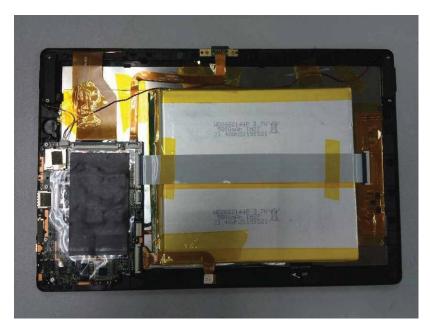








































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