

Global United Technology Services Co., Ltd.

Report No.: GTSE14010008101

FCC REPORT

Applicant: SYSBAY INTERNATIONAL TECHNOLOGY LTD.

Address of Applicant: 5/F., Tung Kin Building, 200-202 Tsat Tsz Mui Road, North

Point, HongKong

Equipment Under Test (EUT)

Product Name: Mobile Internet Device

Model No.: WB9 V2 SN, WB9 V2 PN, WB9 V2 ON, WB9 V2 S,

WB9 V2 P, WB9 V2 O, M901DB

FCC ID: 2AALKWB9V2SN

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

Date of sample receipt: January 15, 2014

Date of Test: January 15-16, 2014

Date of report issued: January 16, 2014

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	January 16, 2014	Original

Prepared By:	Sam. Gao	Date:	January 16, 2014
	Project Engineer		
Check By:	Hams. Hu	Date:	January 16, 2014
	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.

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5 General Information

5.1 Client Information

Applicant:	SYSBAY INTERNATIONAL TECHNOLOGY LTD.		
Address of Applicant:	5/F.,Tung Kin Building, 200-202 Tsat Tsz Mui Road ,North Point, HongKong		
Manufacturer:	SYSBAY INTERNATIONAL TECHNOLOGY LTD.		
Address of Manufacturer:	5/F.,Tung Kin Building, 200-202 Tsat Tsz Mui Road ,North Point, HongKong		
Factory:	DONGGUAN SYSBAY ELECTRONICE LTD		
Address of Factory:	Block 29 Sanjiang Industrial Park, HengLi Town, DongGuan City, China		

5.2 General Description of EUT

Product Name:	Mobile Internet Device
Model No.:	WB9 V2 SN, WB9 V2 PN, WB9 V2 ON, WB9 V2 S, WB9 V2 P,
	WB9 V2 O, M901DB
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:	2.0dBi (declare by Applicant)
Power supply:	Model No. :HT-001-050200
	Input: AC 100-240V 50/60Hz
	Output: DC 5V 2000mA
	Or
	DC 3.7V Li-ion Battery



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

Note:

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

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

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

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

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

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

5.4 Description of Support Units

None.

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

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5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. to ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

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

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

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

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

Con	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2014		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

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



7 Test results and Measurement Data

7.1 Antenna requirement:

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

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi



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7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4:2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto	
Limit:	Fraguency range (MHz)	Limit (c	dBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm	n of the frequency.	
Test setup:	Reference Plane		_
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	
Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohm termination. (Please refer to photographs). Both sides of A.C. line are dinterference. In order to find positions of equipment and according to ANSI C63.4: 2 	n network (L.I.S.N.). The edance for the measuring also connected to the n/50uH coupling imped to the block diagram of thecked for maximum the maximum emissionall of the interface cat	nis provides a sing equipment. main power through a dance with 500hm the test setup and conducted on, the relative bles must be changed
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

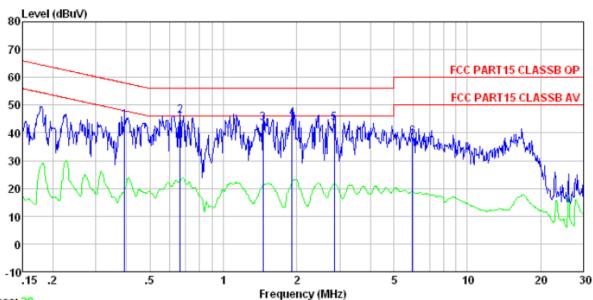
Shenzhen, China 518102

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Measurement data

Line:



Trace: 28

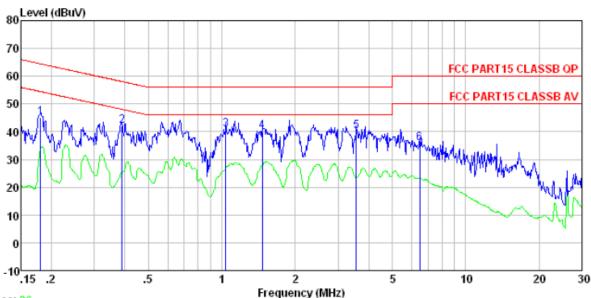
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0081RF Test mode : WIFI mode Test Engineer: Liu

LISN Cable Limit 0ver Read Freq Level Factor Loss Level Line Limit Remark MHz dBuV dBuV dBuV dΒ dΒ dΒ 57.99 -13.58 QP 56.00 -10.03 QP 0.393 1 44.19 0.11 0.1144.41 2 3 4 45.70 0.665 0.13 45.97 0.141.456 43.22 0.120.13 43.47 56.00 -12.53 QP 44.73 56.00 -11.01 QP 56.00 -12.65 QP 1.918 0.120.1444.99 5 43.35 2.854 43.05 0.150.1560.00 -21.62 QP 38.00 0.22 38.38 5.961 0.16



Neutral:



Trace: 26

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0081RF Test mode : WIFI mode Test Engineer: Liu

	Freq		LISN Factor				Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6	1.037 1.464	44. 83 42. 05 40. 72 39. 94 39. 77 35. 50	0.09	0.11 0.13 0.13 0.15	42. 22 40. 92 40. 16 40. 05	58. 08 56. 00 56. 00 56. 00	-15.08 -15.84	QP QP QP 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

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test CH		Peak Outp	ut Power (dBm)		Limit(dBm)	Result
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.50	7.41	7.47	7.00		
Middle	7.53	7.46	7.46	6.99	30.00	Pass
Highest	7.49	7.44	7.44	6.89		

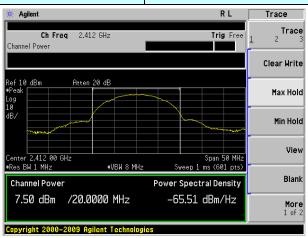
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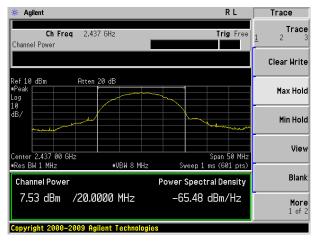
Project No.: GTSE140100081RF

Test plot as follows:

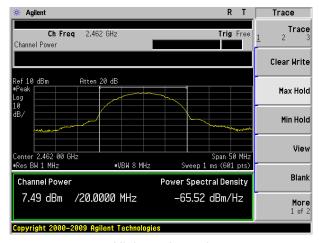
Test mode: 802.11b



Lowest channel



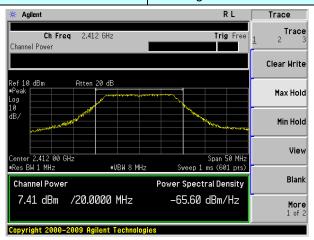
Middle channel



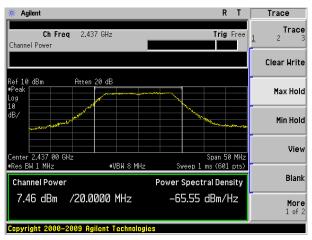
Highest channel



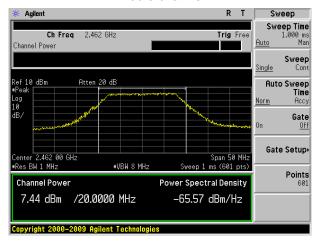
Test mode: 802.11g



Lowest channel



Middle channel

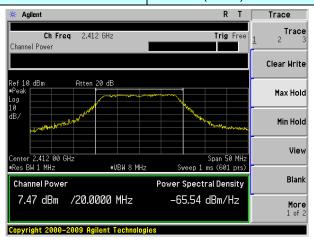


Highest channel

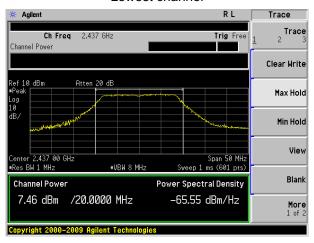


Project No.: GTSE140100081RF

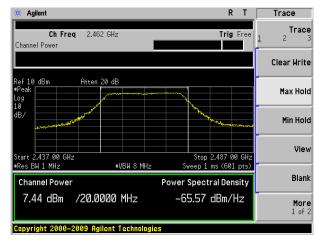
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



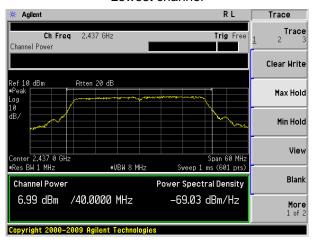
Highest channel



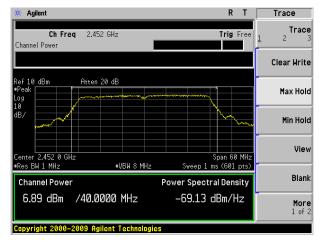
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

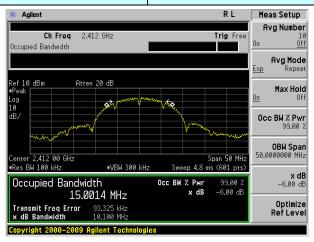
Test CH		Channel Ban	dwidth (MHz)		Limit(KHz)	Result
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littil(Ki12)	Nesuit
Lowest	10.100	16.487	17.608	35.775		
Middle	10.068	16.453	17.333	35.408	>500	Pass
Highest	10.053	16.412	17.414	35.452		

Test plot as follows:

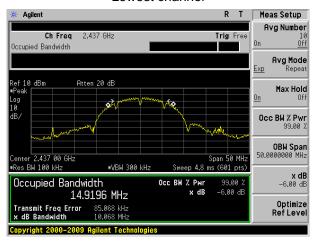
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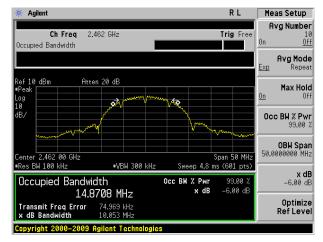
Test mode: 802.11b



Lowest channel



Middle channel

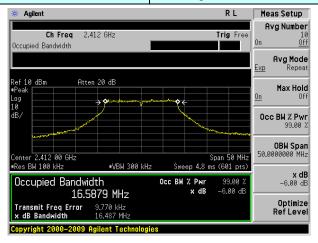


Highest channel

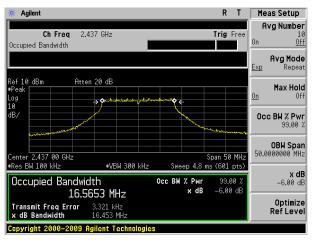
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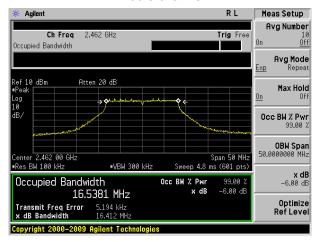
Test mode: 802.11g



Lowest channel



Middle channel



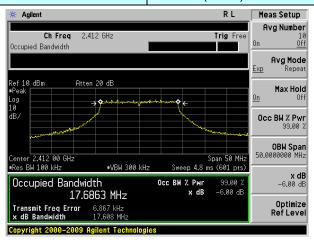
Highest channel

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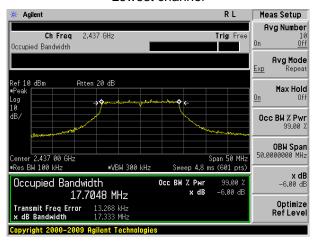


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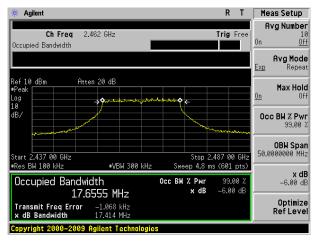
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

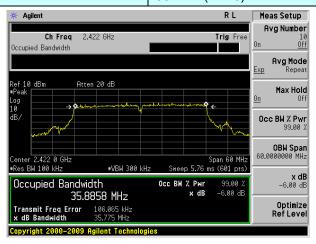


Highest channel

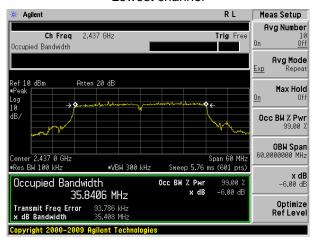


Project No.: GTSE140100081RF

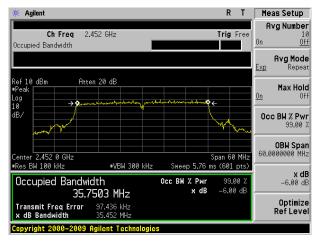
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
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 Spect	tral Density (dBm)		Limit(dBm/3kHz)	Result
rest Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBin/3ki12)	Kesuit
Lowest	-4.55	-6.70	-7.23	-9.60		
Middle	-4.30	-7.39	-7.37	-9.33	8.00	Pass
Highest	-4.51	-7.34	-7.66	-9.60		

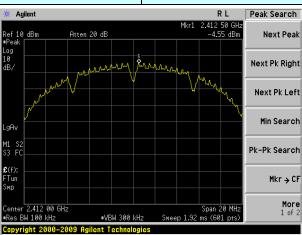
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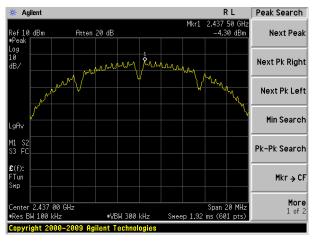
Project No.: GTSE140100081RF

Test plot as follows:

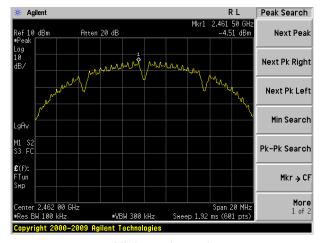
Test mode: 802.11b



Lowest channel



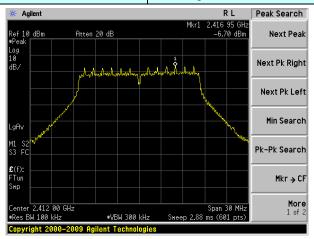
Middle channel



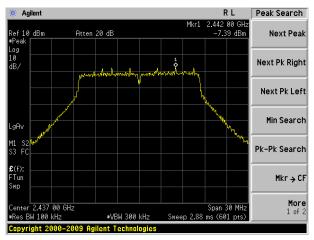
Highest channel



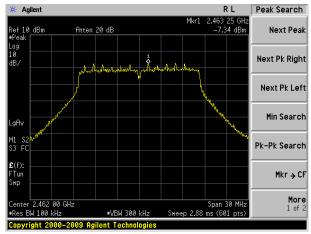
Test mode: 802.11g



Lowest channel



Middle channel

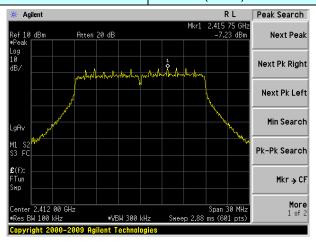


Highest channel

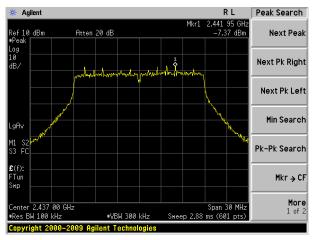
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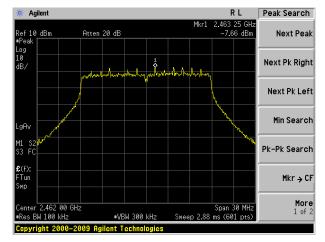
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

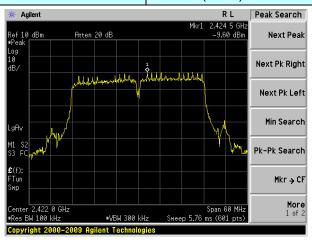


Highest channel

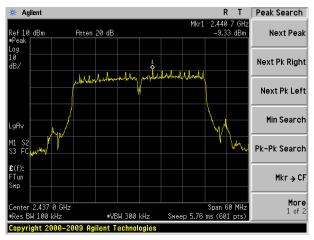
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



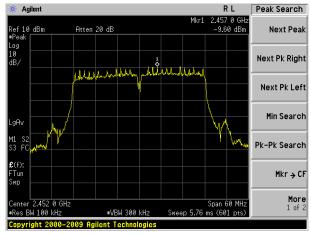
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

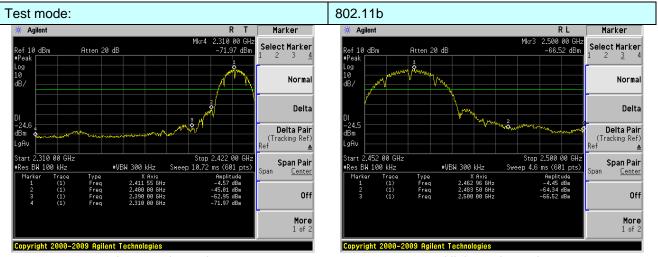
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

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Test plot as follows:



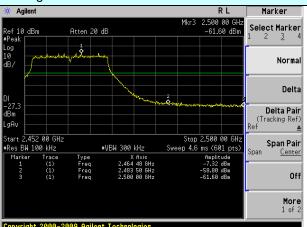
Lowest channel

Highest channel

Test mode: 802.11g ** Agilent R T Marker Ref 10 dBm Atten 20 dB -61.70 dBm Peak Select Marker -61.70 dBm 2 3 4 Peak



Lowest channel

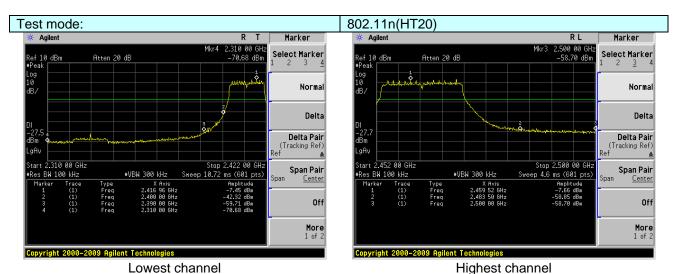


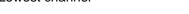
Highest channel

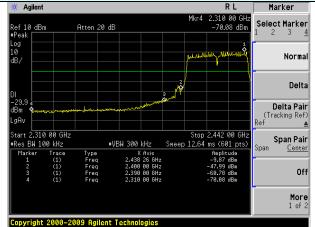


Test mode:

Report No.: GTSE14010008101







Lowest channel

Highest channel

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More 1 of 2

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205		
Test Method:	ANSI C63.4: 20	03			
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	and's (2310MHz to
Test site:	Measurement D				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
·		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit:	Freque		Limit (dBuV	/m @3m)	Value
			54.0	00	Average
	Above 1	GHZ	74.0	00	Peak
Test setup:	EUT	3m 4m 4m		Antenna Towe Horn Antenna Spectrum Analyzer Amplifier	
Test Procedure:	the ground a determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measurement. 4. For each sus and then the and the rotathe maximum. 5. The test-recesspecified Ba. 6. If the emission the limit specified ba. 6. If the emission the limit specified ba. 7. The radiation and found the country and found the country and seed.	t a 3 meter care position of the set 3 meters chewas mounted the management of the later of the	mber. The tale highest rade away from the ed on the top of the first tendence of tendence of the first tendence of tendence of the first tendence of tendence of tendence of ten	ble was rotadiation. The interferer of a variable of the field the antenna was arrangults from 1 rigrees to 360 ak Detect Full Mode. The mode was a stopped and the medin X, Y it is worse of the diatale of the mode was a stopped and then report the field the mode was a stopped and the mode w	r meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find find unction and 10dB lower than and the peak values sions that did not using peak, quasi-
Test Instruments:	Refer to section				
Test mode:	Refer to section	5.3 for details			
Test results:	Pass				



Measurement data:

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

|--|

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	51.03	27.59	3.33	30.10	51.85	74.00	-22.15	Horizontal
2400.00	50.48	27.58	3.37	30.10	51.33	74.00	-22.67	Horizontal
2390.00	52.26	27.59	3.33	30.10	53.08	74.00	-20.92	Vertical
2400.00	51.70	27.58	3.37	30.10	52.55	74.00	-21.45	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	39.97	27.59	3.33	30.10	40.79	54.00	-13.21	Horizontal
2400.00	39.77	27.58	3.37	30.10	40.62	54.00	-13.38	Horizontal
2390.00	41.23	27.59	3.33	30.10	42.05	54.00	-11.95	Vertical
2400.00	40.99	27.58	3.37	30.10	41.84	54.00	-12.16	Vertical

Test mode:	802.11b	Test channel:	Highest
			3

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	49.96	27.53	3.49	29.93	51.05	74.00	-22.95	Horizontal
2500.00	49.46	27.55	3.52	30.70	49.83	74.00	-24.17	Horizontal
2483.50	51.20	27.53	3.49	29.93	52.29	74.00	-21.71	Vertical
2500.00	50.69	27.55	3.52	30.70	51.06	74.00	-22.94	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	39.00	27.53	3.49	29.93	40.09	54.00	-13.91	Horizontal
2500.00	38.60	27.55	3.52	30.70	38.97	54.00	-15.03	Horizontal
2483.50	40.24	27.53	3.49	29.93	41.33	54.00	-12.67	Vertical
2500.00	40.07	27.55	3.52	30.70	40.44	54.00	-13.56	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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Project No.: GTSE140100081RF

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Test mode:	802.1		1g Test channel:		L	_owest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.58	27.59	3.33	30.10	51.40	74.00	-22.60	Horizontal
2400.00	51.99	27.58	3.37	30.10	52.84	74.00	-21.16	Horizontal
2390.00	50.81	27.59	3.33	30.10	51.63	74.00	-22.37	Vertical
2400.00	51.21	27.58	3.37	30.10	52.06	74.00	-21.94	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	39.52	27.59	3.33	30.10	40.34	54.00	-13.66	Horizontal
2400.00	39.28	27.58	3.37	30.10	40.13	54.00	-13.87	Horizontal
2390.00	40.78	27.59	3.33	30.10	41.60	54.00	-12.40	Vertical
2400.00	40.50	27.58	3.37	30.10	41.35	54.00	-12.65	Vertical
Test mode:		802.1	1g	Te	est channel:	ŀ	Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.47	27.53	3.49	29.93	50.56	74.00	-23.44	Horizontal
2500.00	48.95	27.55	3.52	30.70	49.32	74.00	-24.68	Horizontal
2483.50	50.71	27.53	3.49	29.93	51.80	74.00	-22.20	Vertical

Average value:

2500.00

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	38.51	27.53	3.49	29.93	39.60	54.00	-14.40	Horizontal
2500.00	38.09	27.55	3.52	30.70	38.46	54.00	-15.54	Horizontal
2483.50	39.75	27.53	3.49	29.93	40.84	54.00	-13.16	Vertical
2500.00	39.56	27.55	3.52	30.70	39.93	54.00	-14.07	Vertical

30.70

50.55

Remark:

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

3.52

27.55

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

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50.18

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Project No.: GTSE140100081RF

-23.45

Vertical

74.00



Test mode:		802.	11n(H20)	Т	est channel:		Lowest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	50.34	27.59	3.33	30.10	51.16	74.00	-22.84	Horizontal
2400.00	49.86	27.58	3.37	30.10	50.71	74.00	-23.29	Horizontal
2390.00	51.57	27.59	3.33	30.10	52.39	74.00	-21.61	Vertical
2400.00	51.08	27.58	3.37	30.10	51.93	74.00	-22.07	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	39.28	27.59	3.33	30.10	40.10	54.00	-13.90	Horizontal
2400.00	39.15	27.58	3.37	30.10	40.00	54.00	-14.00	Horizontal
2390.00	40.54	27.59	3.33	30.10	41.36	54.00	-12.64	Vertical
2400.00	40.37	27.58	3.37	30.10	41.22	54.00	-12.78	Vertical
						1		
Test mode:		802.	11n(H20)	Т	est channel:		Highest	
Peak value:	1		1	1				_
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line	I I imit	Polarization
2483.50	49.28	27.53	3.49	29.93	50.37	74.00	-23.63	Horizontal
2500.00	48.77	27.55	3.52	30.70	49.14	74.00	-24.86	Horizontal
2483.50	50.52	27.53	3.49	29.93	51.61	74.00	-22.39	Vertical
2500.00	50.00	27.55	3.52	30.70	50.37	74.00	-23.63	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)		Polarization
2483.50	38.32	27.53	3.49	29.93	39.41	54.00	-14.59	Horizontal
2500.00	37.91	27.55	3.52	30.70	38.28	54.00	-15.72	Horizontal
2483.50	39.56	27.53	3.49	29.93	40.65	54.00	-13.35	Vertical
2500.00	39.38	27.55	3.52	30.70	39.75	54.00	-14.25	Vertical



Test mode:			802.1	1n(H40)		Tes	st channel:		Lowest	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Ante Fac (dB		Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line	Limit	Polarization
2390.00	50.05	27.	.59	3.33	30.1	0	50.87	74.00	-23.13	Horizontal
2400.00	49.56	27.	.58	3.37	30.1	0	50.41	74.00	-23.59	Horizontal
2390.00	51.28	27.	.59	3.33	30.1	0	52.10	74.00	-21.90	Vertical
2400.00	50.78	27.	.58	3.37	30.1	0	51.63	74.00	-22.37	Vertical
Average va	lue:	•					•			
Frequency (MHz)	Read Level (dBuV)	Ante Fac (dB	ctor	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m	Limit	Polarization
2390.00	38.99	27.	59	3.33	30.1	0	39.81	54.00	-14.19	Horizontal
2400.00	38.85	27.	58	3.37	30.1	0	39.70	54.00	-14.30	Horizontal
2390.00	40.25	27.	59	3.33	30.1	0	41.07	54.00	-12.93	Vertical
2400.00	40.07	27.	58	3.37	30.1	0	40.92	54.00	-13.08	Vertical
Test mode:			802.1	1n(H40)		Tes	st channel:		Highest	
Peak value:										
Frequency	Read Level	Ante		Cable Loss	Prear Fact	•	Level	Limit Line	e Over Limit	Polarization

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.92	27.53	3.49	29.93	50.01	74.00	-23.99	Horizontal
2500.00	48.44	27.55	3.52	30.70	48.81	74.00	-25.19	Horizontal
2483.50	50.16	27.53	3.49	29.93	51.25	74.00	-22.75	Vertical
2500.00	49.67	27.55	3.52	30.70	50.04	74.00	-23.96	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	37.96	27.53	3.49	29.93	39.05	54.00	-14.95	Horizontal
2500.00	37.58	27.55	3.52	30.70	37.95	54.00	-16.05	Horizontal
2483.50	39.20	27.53	3.49	29.93	40.29	54.00	-13.71	Vertical
2500.00	39.05	27.55	3.52	30.70	39.42	54.00	-14.58	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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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

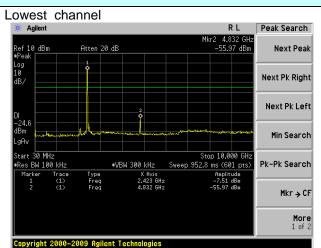
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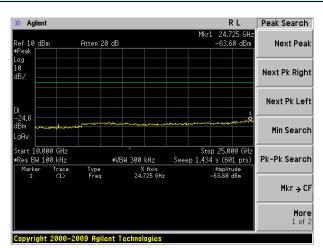
Test plot as follows:

Test mode:

802.11b

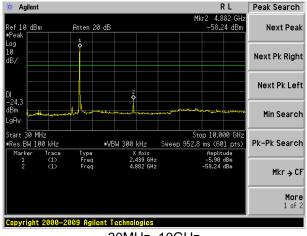


30MHz~10GHz

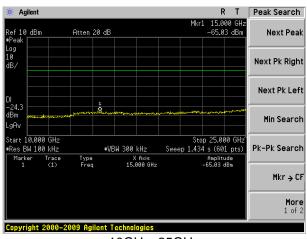


10GHz~25GHz

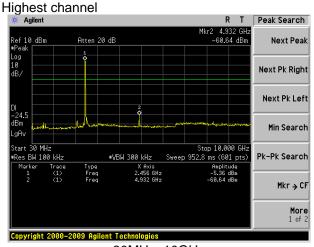




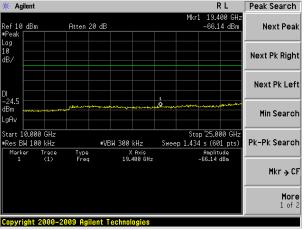
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



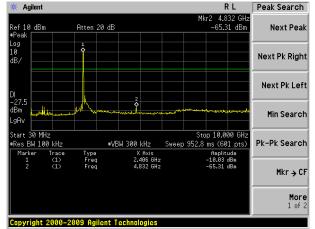
10GHz~25GHz



Test mode:

802.11g

Lowest channel

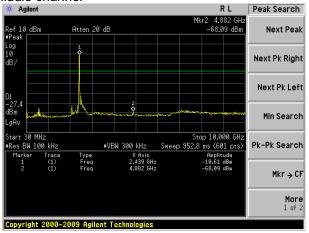


30MHz~10GHz

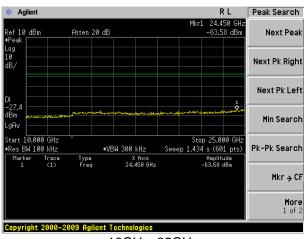
Agilent Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz "Stop 25.000 GHz Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search X Axis 24.200 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

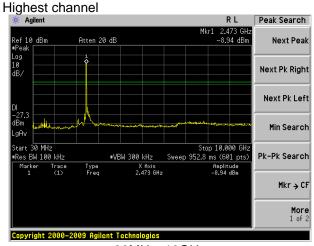
Middle channel



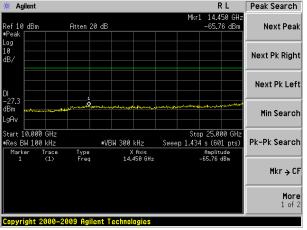
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



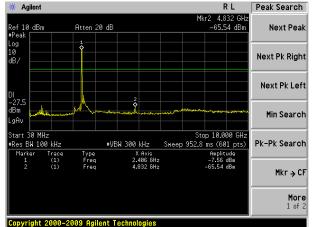
Peak Search

Test mode:

802.11n(HT20)

🗰 Agilent

Lowest channel

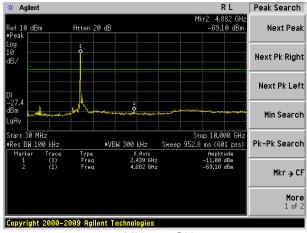


30MHz~10GHz

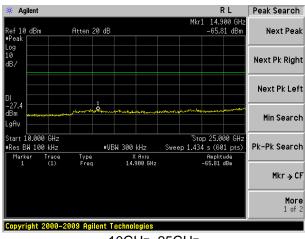
10GHz~25GHz

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Middle channel

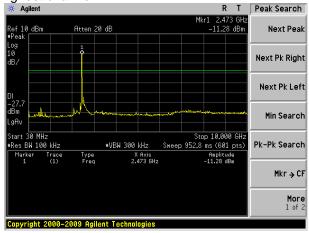


30MHz~10GHz

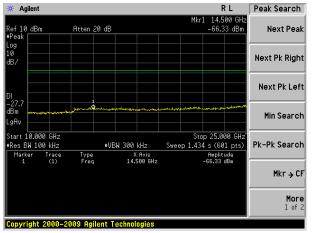


10GHz~25GHz





30MHz~10GHz



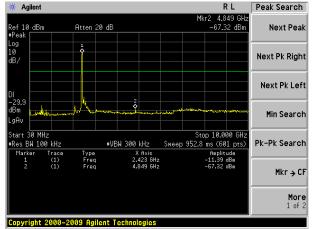
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

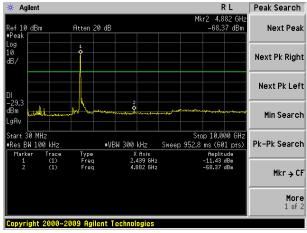


30MHz~10GHz

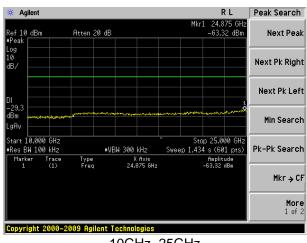
🔆 Agilent R T Peak Search 13.675 GHz -64.97 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq X Axis 13.675 GHz Amplitude -64.97 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

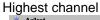
Middle channel

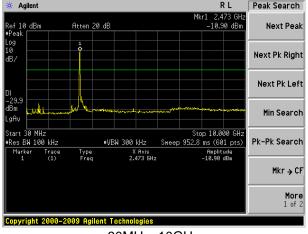


30MHz~10GHz

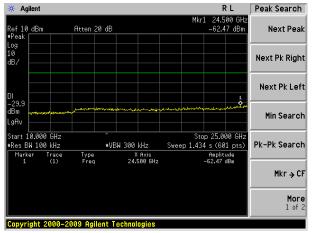


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Method:	ANSI C63.4: 200	FCC Part15 C Section 15.209							
	ANSI C03.4. 200	3							
Test Frequency Range:	30MHz to 25GHz	7							
Test site:	Measurement Dis	stance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	30MHz-1GHz								
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above 1GHz	Peak	1MHz	10Hz	Average				
Limit:	Frequen	cy L	_imit (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	`U-	54.0	0	Average				
	Above 10	סחב	74.0	0	Peak				
	Antenna Tower Search Antenna Tum								

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



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.
	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 X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-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
34.40	44.82	14.30	0.60	32.06	27.66	40.00	-12.34	Vertical
69.60	51.00	10.79	0.94	31.88	30.85	40.00	-9.15	Vertical
112.13	46.83	13.83	1.30	31.82	30.14	43.50	-13.36	Vertical
172.00	50.50	11.10	1.70	32.06	31.24	43.50	-12.26	Vertical
207.85	47.45	12.80	1.89	32.14	30.00	43.50	-13.50	Vertical
554.83	48.54	19.67	3.54	31.27	40.48	46.00	-5.52	Vertical
68.39	54.53	11.34	0.93	31.89	34.91	40.00	-5.09	Horizontal
96.10	42.60	14.90	1.16	31.75	26.91	43.50	-16.59	Horizontal
172.00	57.96	11.10	1.70	32.06	38.70	43.50	-4.80	Horizontal
276.12	55.57	14.55	2.25	32.17	40.20	46.00	-5.80	Horizontal
549.02	47.91	19.57	3.52	31.30	39.70	46.00	-6.30	Horizontal
815.97	42.26	22.24	4.52	31.29	37.73	46.00	-8.27	Horizontal

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



Lowest

74.00

Horizontal

■ Above 1GHz

802.11b

Test mode:

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	37.06	31.79	5.34	24.07	50.12	74.00	-23.88	Vertical
7236.00	33.64	36.19	6.88	26.44	50.27	74.00	-23.73	Vertical
9648.00	27.35	38.07	8.96	25.36	49.02	74.00	-24.98	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.83	31.79	5.34	24.07	48.89	74.00	-25.11	Horizontal
7236.00	32.40	36.19	6.88	26.44	49.03	74.00	-24.97	Horizontal
9648.00	26.14	38.07	8.96	25.36	47.81	74.00	-26.19	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal

Test channel:

Average value:

16884.00

Average var	401							
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	28.75	31.79	5.34	24.07	41.81	54.00	-12.19	Vertical
7236.00	25.48	36.19	6.88	26.44	42.11	54.00	-11.89	Vertical
9648.00	19.14	38.07	8.96	25.36	40.81	54.00	-13.19	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.52	31.79	5.34	24.07	40.58	54.00	-13.42	Horizontal
7236.00	24.24	36.19	6.88	26.44	40.87	54.00	-13.13	Horizontal
9648.00	17.93	38.07	8.96	25.36	39.60	54.00	-14.40	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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.



Report No.: GTSE14010008101

Test mode:		802.11b			Test	channel:		Middl	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	-		Over Limit (dB)	polarization
4874.00	36.10	31.85	5.40	24	.01	49.34	74.	00	-24.66	Vertical
7311.00	34.40	36.37	6.90	26	.58	51.09	74.	00	-22.91	Vertical
9748.00	29.27	38.27	9.00	25	.30	51.24	74.	00	-22.76	Vertical
12185.00	*						74.	00		Vertical
14682.00	*						74.	00		Vertical
17179.00	*						74.	00		Vertical
4874.00	34.88	31.85	5.40	24	.01	48.12	74.	00	-25.88	Horizontal
7311.00	33.18	36.37	6.90	26	.58	49.87	74.	00	-24.13	Horizontal
9748.00	28.05	38.27	9.00	25	.30	50.02	74.	00	-23.98	Horizontal
12185.00	*						74.	00		Horizontal
14682.00	*						74.	00		Horizontal
17179.00	*						74.	00		Horizontal

Average value:

Average var								
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	27.87	31.85	5.40	24.01	41.11	54.00	-12.89	Vertical
7311.00	26.25	36.37	6.90	26.58	42.94	54.00	-11.06	Vertical
9748.00	20.94	38.27	9.00	25.30	42.91	54.00	-11.09	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	26.65	31.85	5.40	24.01	39.89	54.00	-14.11	Horizontal
7311.00	25.03	36.37	6.90	26.58	41.72	54.00	-12.28	Horizontal
9748.00	19.72	38.27	9.00	25.30	41.69	54.00	-12.31	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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.



Report No.: GTSE14010008101

Test mode:		802.11b			Test	channel:		Highe	est	
Peak value:										
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
4924.00	34.56	31.89	5.46	23	.96	47.95	74.	00	-26.05	Vertical
7386.00	33.39	36.49	6.93	26	.79	50.02	74.	00	-23.98	Vertical
9848.00	29.68	38.62	9.05	25	.26	52.09	74.	00	-21.91	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	33.35	31.89	5.46	23	.96	46.74	74.	00	-27.26	Horizontal
7386.00	32.16	36.49	6.93	26	.79	48.79	74.	00	-25.21	Horizontal
9848.00	28.47	38.62	9.05	25	.26	50.88	74.	00	-23.12	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal

Average value:

troinge rui								
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	26.34	31.89	5.46	23.96	39.73	54.00	-14.27	Vertical
7386.00	25.25	36.49	6.93	26.79	41.88	54.00	-12.12	Vertical
9848.00	21.49	38.62	9.05	25.26	43.90	54.00	-10.10	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.13	31.89	5.46	23.96	38.52	54.00	-15.48	Horizontal
7386.00	24.02	36.49	6.93	26.79	40.65	54.00	-13.35	Horizontal
9848.00	20.28	38.62	9.05	25.26	42.69	54.00	-11.31	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.



Report No.: GTSE14010008101

Test mode:		802.11g			Test	channel:		lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4824.00	36.18	31.79	5.34	24	.07	49.24	74.	00	-24.76	Vertical
7236.00	33.06	36.19	6.88	26	.44	49.69	74.	00	-24.31	Vertical
9648.00	26.71	38.07	8.96	25	.36	48.38	74.	00	-25.62	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	35.13	31.79	5.34	24	.07	48.19	74.	00	-25.81	Horizontal
7236.00	31.52	36.19	6.88	26	.44	48.15	74.	00	-25.85	Horizontal
9648.00	25.56	38.07	8.96	25	.36	47.23	74.	00	-26.77	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

troinge rui								
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	28.04	31.79	5.34	24.07	41.10	54.00	-12.90	Vertical
7236.00	24.84	36.19	6.88	26.44	41.47	54.00	-12.53	Vertical
9648.00	18.47	38.07	8.96	25.36	40.14	54.00	-13.86	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.72	31.79	5.34	24.07	39.78	54.00	-14.22	Horizontal
7236.00	23.53	36.19	6.88	26.44	40.16	54.00	-13.84	Horizontal
9648.00	17.29	38.07	8.96	25.36	38.96	54.00	-15.04	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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.



Report No.: GTSE14010008101

Test mode:		802.11g			Test	channel:		Middl	le	
Peak value:										_
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	35.45	31.85	5.40	24	.01	48.69	74.	00	-25.31	Vertical
7311.00	33.73	36.37	6.90	26	.58	50.42	74.	00	-23.58	Vertical
9748.00	28.49	38.27	9.00	25	.30	50.46	74.	00	-23.54	Vertical
12185.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4874.00	34.26	31.85	5.40	24	.01	47.50	74.	00	-26.50	Horizontal
7311.00	32.54	36.37	6.90	26	.58	49.23	74.	00	-24.77	Horizontal
9748.00	27.37	38.27	9.00	25	.30	49.34	74.	00	-24.66	Horizontal
12185.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

, tronage ran								
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	27.17	31.85	5.40	24.01	40.41	54.00	-13.59	Vertical
7311.00	25.62	36.37	6.90	26.58	42.31	54.00	-11.69	Vertical
9748.00	20.27	38.27	9.00	25.30	42.24	54.00	-11.76	Vertical
12185.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	26.03	31.85	5.40	24.01	39.27	54.00	-14.73	Horizontal
7311.00	24.34	36.37	6.90	26.58	41.03	54.00	-12.97	Horizontal
9748.00	19.08	38.27	9.00	25.30	41.05	54.00	-12.95	Horizontal
12185.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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.



Report No.: GTSE14010008101

Test mode:		802.11g		Test channel:				Highe	est	
Peak value:										
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
4924.00	33.88	31.89	5.46	23	.96	47.27	74.	00	-26.73	Vertical
7386.00	32.81	36.49	6.93	26	.79	49.44	74.	00	-24.56	Vertical
9848.00	29.05	38.62	9.05	25	.26	51.46	74.	00	-22.54	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	32.70	31.89	5.46	23	.96	46.09	74.	00	-27.91	Horizontal
7386.00	31.51	36.49	6.93	26	.79	48.14	74.	00	-25.86	Horizontal
9848.00	27.86	38.62	9.05	25	.26	50.27	74.	00	-23.73	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal

Average value:

Average van								
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	25.65	31.89	5.46	23.96	39.04	54.00	-14.96	Vertical
7386.00	24.41	36.49	6.93	26.79	41.04	54.00	-12.96	Vertical
9848.00	20.92	38.62	9.05	25.26	43.33	54.00	-10.67	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.44	31.89	5.46	23.96	37.83	54.00	-16.17	Horizontal
7386.00	23.36	36.49	6.93	26.79	39.99	54.00	-14.01	Horizontal
9848.00	19.41	38.62	9.05	25.26	41.82	54.00	-12.18	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:		802.11n(H20)			Test	channel:		Lowe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4824.00	36.05	31.79	5.34	24.07		49.11	74.00		-24.89	Vertical
7236.00	32.54	36.19	6.88	26	.44	49.17	74.	00	-24.83	Vertical
9648.00	26.33	38.07	8.96	25	.36	48.00	74.	00	-26.00	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	34.82	31.79	5.34	24	.07	47.88	74.	00	-26.12	Horizontal
7236.00	31.30	36.19	6.88	26	.44	47.93	74.	00	-26.07	Horizontal
9648.00	25.12	38.07	8.96	25	.36	46.79	74.	00	-27.21	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Average var								
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	27.74	31.79	5.34	24.07	40.80	54.00	-13.20	Vertical
7236.00	24.38	36.19	6.88	26.44	41.01	54.00	-12.99	Vertical
9648.00	18.12	38.07	8.96	25.36	39.79	54.00	-14.21	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.51	31.79	5.34	24.07	39.57	54.00	-14.43	Horizontal
7236.00	23.14	36.19	6.88	26.44	39.77	54.00	-14.23	Horizontal
9648.00	16.91	38.07	8.96	25.36	38.58	54.00	-15.42	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

[&]quot;*", means this data is the too weak instrument of signal is unable to test.



Report No.: GTSE14010008101

Test mode:		802.11n(H	302.11n(H20) Test char			channel:		Middl	le	
Peak value:										
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	35.08	31.85	5.40	24	.01	48.32	74.	00	-25.68	Vertical
7311.00	33.39	36.37	6.90	26	.58	50.08	74.	00	-23.92	Vertical
9748.00	28.24	38.27	9.00	25	.30	50.21	74.	00	-23.79	Vertical
12185.00	*						74.	00		Vertical
14682.00	*						74.	00		Vertical
17179.00	*						74.	00		Vertical
4874.00	33.86	31.85	5.40	24	.01	47.10	74.	00	-26.90	Horizontal
7311.00	32.17	36.37	6.90	26	.58	48.86	74.	00	-25.14	Horizontal
9748.00	27.02	38.27	9.00	25	.30	48.99	74.	00	-25.01	Horizontal
12185.00	*						74.	00		Horizontal
14682.00	*						74.	00		Horizontal
17179.00	*						74.	00		Horizontal

Average value:

, troings run								
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	26.85	31.85	5.40	24.01	40.09	54.00	-13.91	Vertical
7311.00	25.24	36.37	6.90	26.58	41.93	54.00	-12.07	Vertical
9748.00	19.91	38.27	9.00	25.30	41.88	54.00	-12.12	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	25.63	31.85	5.40	24.01	38.87	54.00	-15.13	Horizontal
7311.00	24.02	36.37	6.90	26.58	40.71	54.00	-13.29	Horizontal
9748.00	18.69	38.27	9.00	25.30	40.66	54.00	-13.34	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					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.



Report No.: GTSE14010008101

Test mode:		802.11n(H	20)	Test channel:				Highe	est	
Peak value:										
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
4924.00	33.49	31.89	5.46	23	.96	46.88	74.	00	-27.12	Vertical
7386.00	32.41	36.49	6.93	26	.79	49.04	74.	00	-24.96	Vertical
9848.00	28.75	38.62	9.05	25	.26	51.16	74.	00	-22.84	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	32.28	31.89	5.46	23	.96	45.67	74.	00	-28.33	Horizontal
7386.00	31.18	36.49	6.93	26	.79	47.81	74.	00	-26.19	Horizontal
9848.00	27.54	38.62	9.05	25	.26	49.95	74.	00	-24.05	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal

Average value:

troinge rui								
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	25.27	31.89	5.46	23.96	38.66	54.00	-15.34	Vertical
7386.00	24.27	36.49	6.93	26.79	40.90	54.00	-13.10	Vertical
9848.00	20.56	38.62	9.05	25.26	42.97	54.00	-11.03	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.06	31.89	5.46	23.96	37.45	54.00	-16.55	Horizontal
7386.00	23.04	36.49	6.93	26.79	39.67	54.00	-14.33	Horizontal
9848.00	19.35	38.62	9.05	25.26	41.76	54.00	-12.24	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

[&]quot;*", means this data is the too weak instrument of signal is unable to test.



Report No.: GTSE14010008101

Test mode:		802.11n(H	40)		Test channel:			Lowe	st	
Peak value:										
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
4844.00	33.40	31.82	5.36	24.05		46.53	74.00		-27.47	Vertical
7266.00	33.61	36.28	6.89	26	.47	50.31	74.	00	-23.69	Vertical
9688.00	27.01	38.13	8.98	25	.34	48.78	74.	00	-25.22	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	32.16	31.82	5.36	24	.05	45.29	74.	00	-28.71	Horizontal
7266.00	32.36	36.28	6.89	26	.47	49.06	74.	00	-24.94	Horizontal
9688.00	25.77	38.13	8.98	25	.34	47.54	74.	00	-26.46	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Average van								
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	25.25	31.82	5.36	24.05	38.38	54.00	-15.62	Vertical
7266.00	25.36	36.28	6.89	26.47	42.06	54.00	-11.94	Vertical
9688.00	18.67	38.13	8.98	25.34	40.44	54.00	-13.56	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	24.01	31.82	5.36	24.05	37.14	54.00	-16.86	Horizontal
7266.00	24.11	36.28	6.89	26.47	40.81	54.00	-13.19	Horizontal
9688.00	17.43	38.13	8.98	25.34	39.20	54.00	-14.80	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

[&]quot;*", means this data is the too weak instrument of signal is unable to test.



Report No.: GTSE14010008101

Test mode:		802.11n(H	802.11n(H40) Tes			Test channel: Middle			le	
Peak value:										
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	34.31	31.85	5.40	24.01		47.55	74.00		-26.45	Vertical
7311.00	33.83	36.37	6.90	26	.58	50.52	74.	00	-23.48	Vertical
9748.00	27.86	38.27	9.00	25	.30	49.83	74.	00	-24.17	Vertical
12185.00	*						74.	00		Vertical
14682.00	*						74.	00		Vertical
17179.00	*						74.	00		Vertical
4874.00	33.09	31.85	5.40	24	.01	46.33	74.	00	-27.67	Horizontal
7311.00	32.62	36.37	6.90	26	.58	49.31	74.	00	-24.69	Horizontal
9748.00	26.71	38.27	9.00	25	.30	48.68	74.	00	-25.32	Horizontal
12185.00	*						74.	00		Horizontal
14682.00	*						74.	00		Horizontal
17179.00	*						74.	00		Horizontal

Average value:

Average var								
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	26.05	31.85	5.40	24.01	39.29	54.00	-14.71	Vertical
7311.00	25.59	36.37	6.90	26.58	42.28	54.00	-11.72	Vertical
9748.00	19.57	38.27	9.00	25.30	41.54	54.00	-12.46	Vertical
12185.00	*					54.00		Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	24.83	31.85	5.40	24.01	38.07	54.00	-15.93	Horizontal
7311.00	24.38	36.37	6.90	26.58	41.07	54.00	-12.93	Horizontal
9748.00	18.42	38.27	9.00	25.30	40.39	54.00	-13.61	Horizontal
12185.00	*					54.00		Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					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.



Report No.: GTSE14010008101

Test mode:		802.11n(H	802.11n(H40)			Test channel:			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	32.59	31.88	5.44	23.97		45.94	74.00		-28.06	Vertical
7356.00	32.90	36.45	6.91	26.70		49.56	74.00		-24.44	Vertical
9808.00	28.45	38.52	9.03	25.27		50.73	74.00		-23.27	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4904.00	31.36	31.88	5.44	23	.97	44.71	74.	00	-29.29	Horizontal
7356.00	31.67	36.45	6.91	26	.70	48.33	74.	00	-25.67	Horizontal
9808.00	27.29	38.52	9.03	25	.27	49.57	74.	00	-24.43	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal

Average value:

troinge rui								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	actor (dBuV/m) (Over Limit (dB)	polarization
4904.00	24.36	31.88	5.44	23.97	37.71	54.00	-16.29	Vertical
7356.00	24.35	36.45	6.91	26.70	41.01	54.00	-12.99	Vertical
9808.00	19.96	38.52	9.03	25.27	42.24	54.00	-11.76	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	23.13	31.88	5.44	23.97	36.48	54.00	-17.52	Horizontal
7356.00	23.12	36.45	6.91	26.70	39.78	54.00	-14.22	Horizontal
9808.00	18.80	38.52	9.03	25.27	41.08	54.00	-12.92	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

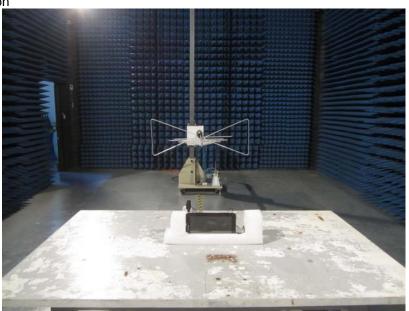
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- "*", means this data is the too weak instrument of signal is unable to test. 2

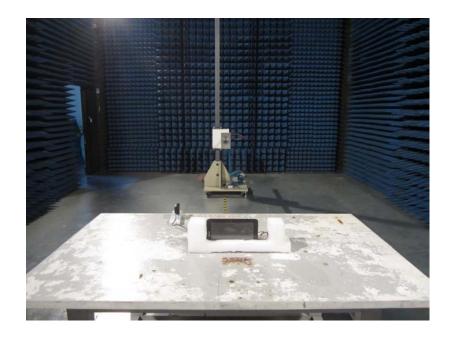


Project No.: GTSE140100081RF

8 Test Setup Photo

Radiated Emission







Conducted Emission



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9 EUT Constructional Details













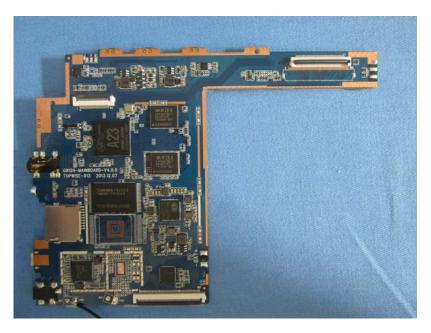




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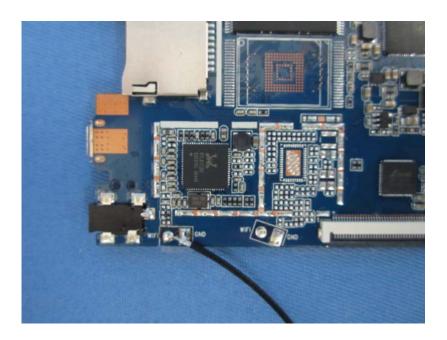


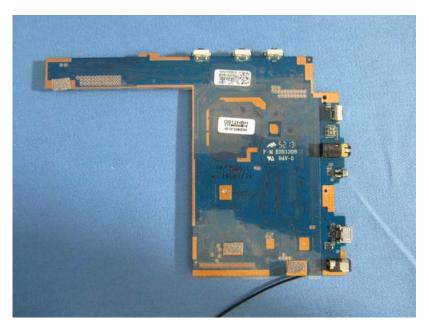




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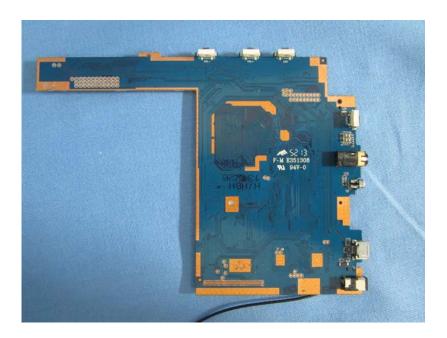






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