

Global United Technology Services Co., Ltd.

Report No.: GTSE15050073802

FCC Report (WIFI)

Applicant: Quantum Suppliers

Address of Applicant: 16410 NE 19th Avenue Suite 102 North Miami Beach, FL

33162

Equipment Under Test (EUT)

Product Name: MINI-PC

Model No.: QS-1043-QB

Trade Mark: Quantum Suppliers

FCC ID: 2AE3RQSQB20151043

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

Date of sample receipt: May 29, 2015

Date of Test: May 29-June 03, 2015

Date of report issued: June 04, 2015

Test Result: PASS *

Authorized Signature:



aboratory 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	June 04, 2015	Original

Prepared By:	Sam. Gao	Date:	June 04, 2015	
	Project Engineer			
Check By:	hank. yan	Date:	June 04, 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				
Note (1): The measurement unce	rtainty is for coverage factor of k	=2 and a level of confidence of 9	95%.	



5 General Information

5.1 Client Information

Applicant:	Quantum Suppliers
Address of Applicant:	16410 NE 19th Avenue Suite 102 North Miami Beach, FL 33162
Manufacturer:	SHENZHEN MELE STAR TECHNOLOGY LIMITED
Address of Manufacture:	3F,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.
Factory:	Shenzhen MeLE Precision Technology Limited
Address of Factory:	3F East,Bldg#1,28 Cuijing Road, Pingshan New District, Shenzhen, PR China.

5.2 General Description of EUT

Product Name:	MINI-PC
Model No.:	QS-1043-QB
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:	Adapter:
	Model No.: HNEB120100WX
	Input: AC 100-240V, 50/60Hz, 0.35A
	Output: DC 12.0V, 1A



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%)	
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.

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



5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

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

• FCC —Registration No.: 600491

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

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd.

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

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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. 27 2015	Mar. 26 2016		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015		
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015		

Con	ducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

Gen	General used equipment:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015				



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

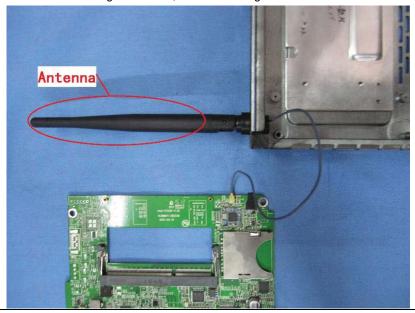
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

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





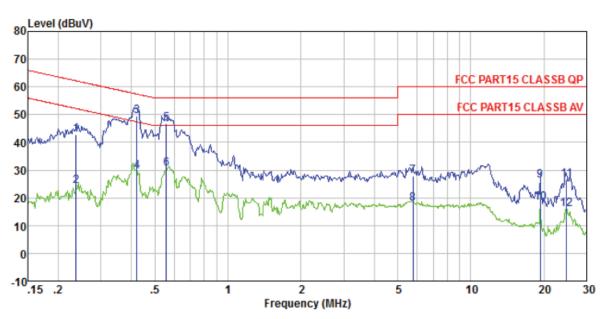
7.2 Conducted Emissions

Test Method: ANSI C63.4:2009 Test Frequency Range: Class / Severity: Class B Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 50 60 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN AUX Equipment Under Test LISN Limit Index Test LIS							
Test Frequency Range: Class / Severity: Class B Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 5-30 60 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN AUX EQUIPMENT LISN LISN Filter Ac power Receiver Test table/Insulation plane Receiver Test table/Insulation network (L.I.S.N.). This provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Test Requirement:	FCC Part15 C Section 15.207					
Class / Severity: Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 * Decreases with the logarithm of the frequency. Reference Plane LISN Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 5-30 * Decreases with the logarithm of the frequency. Reference Plane LISN Filter Receiver Test table/Insulation plane Remark EUT Equipment Under Test LISN Line impedence Stabilization Network Test table height=010 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance of the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Test Method:						
Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto Limit (dBuV) 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 of the frequency. **Reference Plane** LISN 40cm 80cm LISN Filter Ac power E_UT Equipment Under Test LISN Line impedance Stabilization Network Test table height-2 films Test procedure: 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Test Frequency Range:	150KHz to 30MHz					
Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN Aux E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN Line impedence Stabilization Network Test table height-0 8m Test procedure: 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Class / Severity:	Class B					
Test setup: Reference Plane Compared to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Test setup: Coulsi-peak	Limit:	Frequency range (MHz)	Limit (c	dBuV)			
Test setup: Reference Plane		, , ,					
Test setup: Reference Plane Requipment LISN AUX Equipment Under Test LISN Line impedance Stabilization Network Test table dence Stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and							
* Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN AC power Remark E.U.T. Equipment Under Test LISN Line impedance Stabilization Network Test table height=0 Bm In 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. 2. 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							
Test setup: Reference Plane LISN 40cm 80cm Filter AC power Remark EUT: Equipment Under Test LISN Line Impedance Stabilization Network Test table height=0.8m 1. 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. 2. 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				50			
Test procedure: 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and	Took ook in	•	· ·				
Test procedure: 1. 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. 2. 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	rest setup:	Reference Plane		_			
line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. 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		AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network					
LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and	Test procedure:	line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). The dance for the measuri	nis provides a ing equipment.			
		n/50uH coupling imped	coupling impedance with 50ohm				
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2009 on conducted measurement.		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.					
Test Instruments: Refer to section 6.0 for details	Test Instruments:	Refer to section 6.0 for details	;				
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for details					
Test results: Pass	Test results:	Pass					



Measurement data

Line:



Site : Shielded room

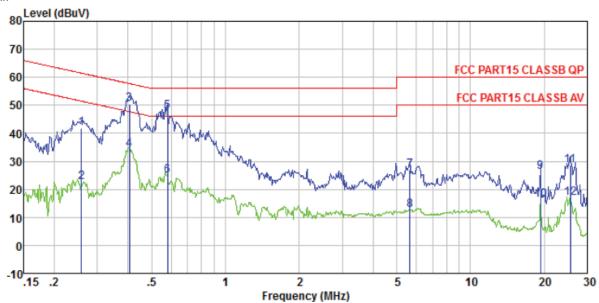
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0738RF 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	0.237	42.45	0.12	0.12	42.69	62.22	-19.53	QP
2	0.237	23.83	0.12	0.12	24.07	52.22	-28.15	Average
	0.421	49.32	0.12	0.11	49.55	57.42	-7.87	QP
4 5	0.421	29.27	0.12	0.11	29.50	47.42	-17.92	Average
5	0.558	46.39	0.13	0.12	46.64	56.00	-9.36	QP
6	0.558	30.40	0.13	0.12	30.65	46.00	-15.35	Average
7	5.774	27.46	0.22	0.15	27.83	60.00	-32.17	QP _
8	5.774	17.61	0.22	0.15	17.98	50.00	-32.02	Average
9	19.326	25.46	0.57	0.22	26.25	60.00	-33.75	QP
10	19.326	17.43	0.57	0.22	18.22	50.00	-31.78	Average
11	24.790	25.13	1.12	0.23	26.48	60.00	-33.52	QP
12	24.790	14.53	1.12	0.23	15.88	50.00	-34.12	Average



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0738RF Test mode : WiFi mode Test Engineer: Qing

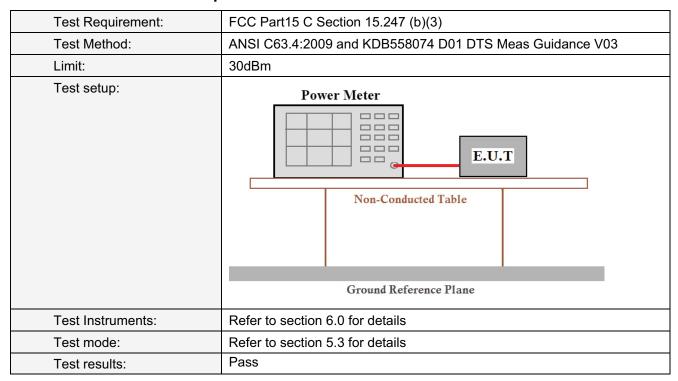
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.259	41.59	0.06	0.11	41.76	61.47	-19.71	QP
2	0.259	22.31	0.06	0.11	22.48	51.47	-28.99	Average
3	0.406	50.13	0.06	0.11	50.30	57.73	-7.43	QP
4	0.406	34.13	0.06	0.11	34.30	47.73	-13.43	Average
5	0.579	47.44	0.07	0.12	47.63	56.00	-8.37	QP
6	0.579	24.54	0.07	0.12	24.73	46.00	-21.27	Average
7	5.653	26.46	0.16	0.15	26.77	60.00	-33.23	QP
8	5.653	12.43	0.16	0.15	12.74	50.00	-37.26	Average
9	19.326	25.41	0.49	0.22	26.12	60.00	-33.88	QP
10	19.326	15.41	0.49	0.22	16.12	50.00	-33.88	Average
11	25.591	27.14	1.02	0.23	28.39	60.00	-31.61	QP
12	25.591	15.55	1.02	0.23	16.80	50.00	-33.20	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Liiiit(abiii)	Nesuit
Lowest	14.68	13.43	12.75	12.20		Pass
Middle	15.54	13.57	12.28	12.20	30.00	
Highest	16.71	13.88	12.75	12.08		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.4:2009 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			

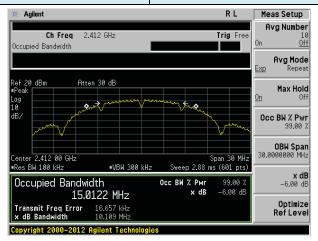
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littil(KH12)	Nesuit
Lowest	10.109	16.588	17.857	36.557		Pass
Middle	10.114	16.574	17.690	36.558	>500	
Highest	10.108	16.594	17.858	36.576		

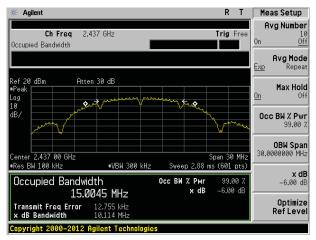
Test plot as follows:



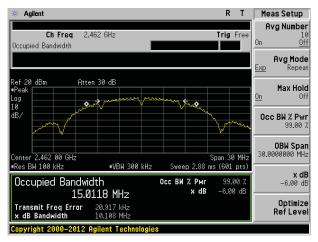
Test mode: 802.11b



Lowest channel



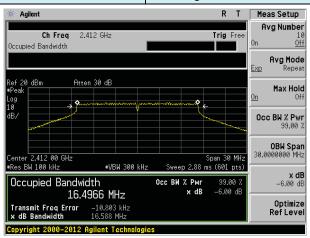
Middle channel



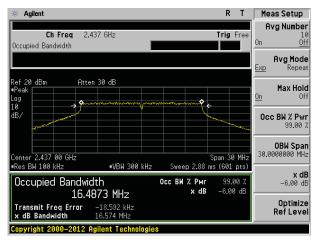
Highest channel



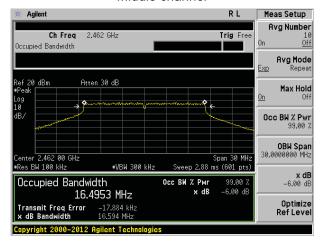
Test mode: 802.11g



Lowest channel



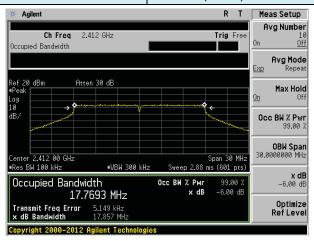
Middle channel



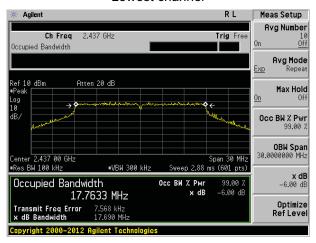
Highest channel



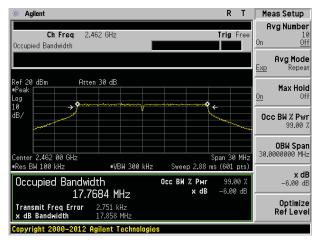
Test mode: 802.11n(HT20)



Lowest channel



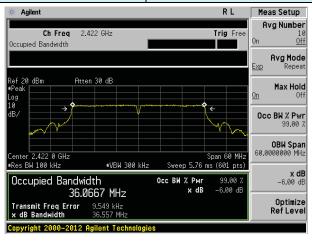
Middle channel



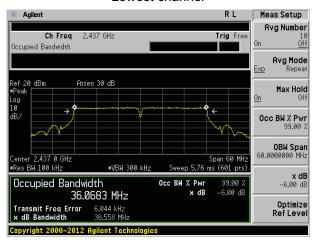
Highest channel



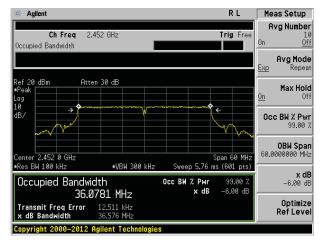
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	ANSI C63.4:2009 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			

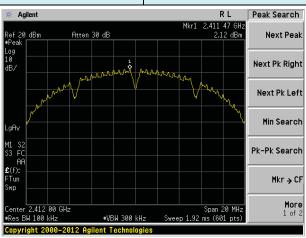
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
Test Off	802.11b 802.11g 802.11n(HT20) 802.11n(HT40)				Limit(dBin/3Ki12)	Result	
Lowest	2.12	-2.72	-5.41	-8.95		Pass	
Middle	3.03	-2.58	-5.06	-8.82	8.00		
Highest	4.19	-2.47	-4.90	-9.22			

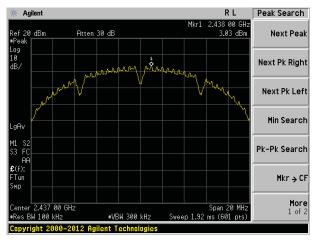


Test plot as follows:

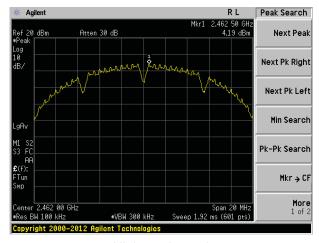
Test mode: 802.11b



Lowest channel



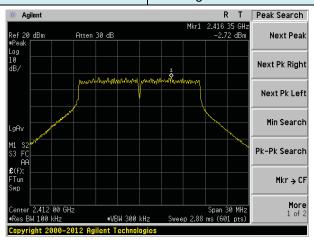
Middle channel



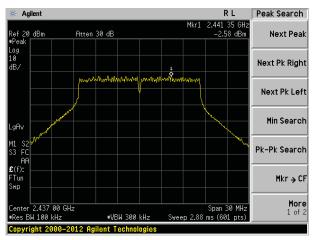
Highest channel



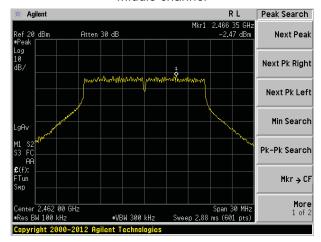
Test mode: 802.11g



Lowest channel



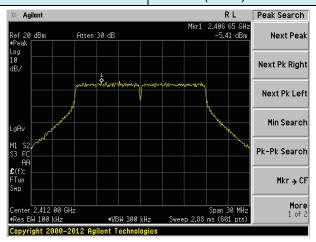
Middle channel



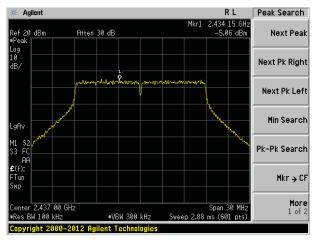
Highest channel



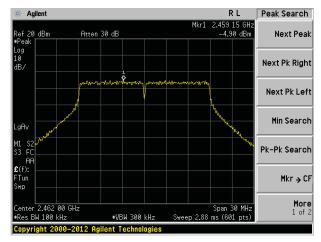
Test mode: 802.11n(HT20)



Lowest channel



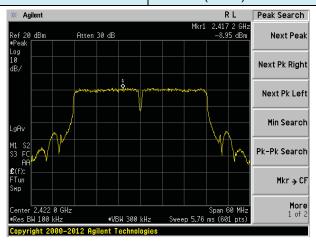
Middle channel



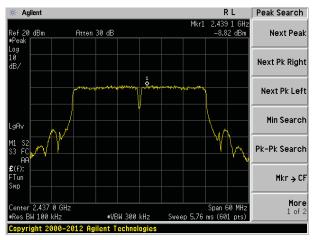
Highest channel



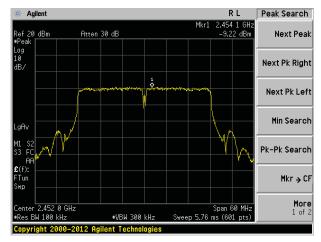
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



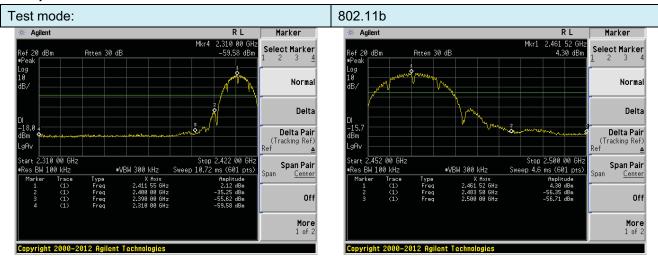
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2009 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 c 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 radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

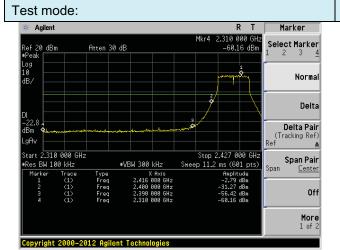


Test plot as follows:

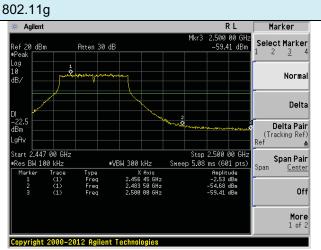


Lowest channel

Highest channel

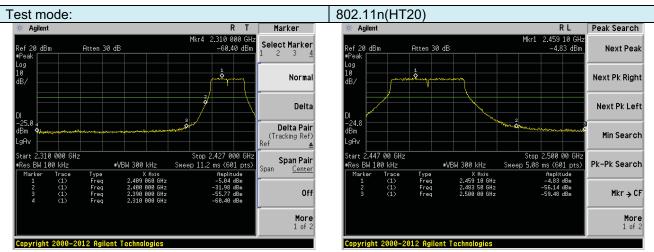


Lowest channel



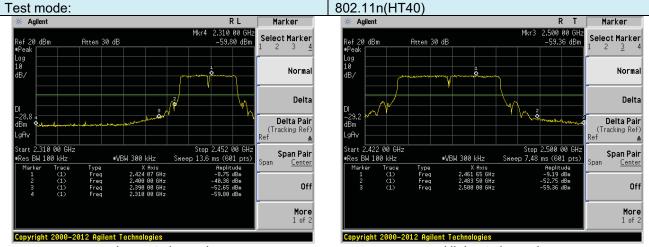
Highest channel





Lowest channel

Highest channel



Lowest channel

Highest channel

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Project No.: GTSE150500738RF

7.6.2 Radiated Emission Method

7.6.2 Radiated Emission W	etnoa								
Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4:200	ANSI C63.4:2009							
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Ź	иеаsurement Distance: 3m							
Receiver setup:		Frequency Detector RBW VBW Value							
rtocortor cotap.									
	Above 1GHz	Above 1GHz RMS 1MHz 3MHz Average							
Limit:	Freque		_imit (dBuV/		Value				
			54.0		Average				
	Above 1	GHZ	74.0	0	Peak				
Test setup:	Turn Table 0.8m	m v v v v v v v v v v v v v v v v v v v	Antenna Horn Anter Spectrum Analyzer Amplific	nna					
Test Procedure:	l m lm								
Test Instruments:	Refer to section	ode is recorded 6.0 for details	<u> </u>						
Test mode:	Refer to section	5.3 for details							
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

. 55. 1116461	1001110001							
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	52.32	27.59	5.38	34.01	51.28	74.00	-22.72	Horizontal
2400.00	61.55	27.58	5.39	34.01	60.51	74.00	-13.49	Horizontal
2390.00	54.05	27.59	5.38	34.01	53.01	74.00	-20.99	Vertical
2400.00	63.53	27.58	5.39	34.01	62.49	74.00	-11.51	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	38.89	27.59	5.38	34.01	37.85	54.00	-16.15	Horizontal
2400.00	47.25	27.58	5.39	34.01	46.21	54.00	-7.79	Horizontal
2390.00	40.76	27.59	5.38	34.01	39.72	54.00	-14.28	Vertical
2400.00	48.43	27.58	5.39	34.01	47.39	54.00	-6.61	Vertical
Test mode:		802.1	1b	Test 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	53.26	27.53	5.47	33.92	52.34	74.00	-21.66	Horizontal
2500.00	48.87	27.55	5.49	29.93	51.98	74.00	-22.02	Horizontal
2483.50	55.66	27.53	5.47	33.92	54.74	74.00	-19.26	Vertical
2500.00	51.51	27.55	5.49	29.93	54.62	74.00	-19.38	Vertical
Average va	lue:							

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	39.35	27.53	5.47	33.92	38.43	54.00	-15.57	Horizontal
2500.00	35.33	27.55	5.49	29.93	38.44	54.00	-15.56	Horizontal
2483.50	41.36	27.53	5.47	33.92	40.44	54.00	-13.56	Vertical
2500.00	37.23	27.55	5.49	29.93	40.34	54.00	-13.66	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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802.11g

Test mode:

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Lowest

			. 9			_			
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	52.17	27.59	5.38	34.01	51.13	74.00	-22.87	Horizontal	
2400.00	61.36	27.58	5.39	34.01	60.32	74.00	-13.68	Horizontal	
2390.00	53.89	27.59	5.38	34.01	52.85	74.00	-21.15	Vertical	
2400.00	63.29	27.58	5.39	34.01	62.25	74.00	-11.75	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	38.78	27.59	5.38	34.01	37.74	54.00	-16.26	Horizontal	
2400.00	47.13	27.58	5.39	34.01	46.09	54.00	-7.91	Horizontal	
2390.00	40.64	27.59	5.38	34.01	39.60	54.00	-14.40	Vertical	
2400.00	48.30	27.58	5.39	34.01	47.26	54.00	-6.74	Vertical	
Test mode:		802.1	1g Test channel:			Highest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2483.50	53.05	27.53	5.47	33.92	52.13	74.00	-21.87	Horizontal	
2500.00	48.71	27.55	5.49	29.93	51.82	74.00	-22.18	Horizontal	
2483.50	55.41	27.53	5.47	33.92	54.49	74.00	-19.51	Vertical	
2500.00	51.32	27.55	5.49	29.93	54.43	74.00	-19.57	Vertical	
Average va	lue:	T		1	T			1	
	D I	I A . 1		Droomn	I		Over		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization	
	Level	Factor	Loss	Factor				Polarization Horizontal	
(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)		
(MHz) 2483.50	Level (dBuV) 39.22	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 38.30	(dBuV/m) 54.00	(dB) -15.70	Horizontal	

Test channel:

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.



Report No.: GTSE15050073802

Test mode:		802.1	1n(HT20)	Test channel:			Lowest		
Peak value		•					•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	52.62	27.59	5.38	34.0	1	51.58	74.00	-22.42	Horizontal
2400.00	61.96	27.58	5.39	34.0	1	60.92	74.00	-13.08	Horizontal
2390.00	54.37	27.59	5.38	34.0	1	53.33	74.00	-20.67	Vertical
2400.00	64.02	27.58	5.39	34.0	1	62.98	74.00	-11.02	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	39.10	27.59	5.38	34.0	1	38.06	54.00	-15.94	Horizontal
2400.00	47.51	27.58	5.39	34.01		46.47	54.00	-7.53	Horizontal
2390.00	41.00	27.59	5.38	34.01		39.96	54.00	-14.04	Vertical
2400.00	48.70	27.58	5.39	34.01		47.66	54.00	-6.34	Vertical
Test mode:	()		Tes	st channel:		Highest			
Peak value								-	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.70	27.53	5.47	33.9	2	52.78	74.00	-21.22	Horizontal
2500.00	49.21	27.55	5.49	29.9	3	52.32	74.00	-21.68	Horizontal
2483.50	56.16	27.53	5.47	33.9	2	55.24	74.00	-18.76	Vertical
2500.00	51.91	27.55	5.49	29.93		55.02	74.00	-18.98	Vertical
Average va	lue:	1	1	1				T	,
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	39.62	27.53	5.47	33.9	2	38.70	54.00	-15.30	Horizontal
2500.00	35.53	27.55	5.49	29.9	3	38.64	54.00	-15.36	Horizontal
2483.50	41.65	27.53	5.47	33.9	2	40.73	54.00	-13.27	Vertical
2500.00	37.45	27.55	5.49	29.9	3	40.56	54.00	-13.44	Vertical
Remark:									

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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.: GTSE15050073802

Test mode:		802.1	1n(HT40)	Test channel:			Lowest		
Peak value:		•		•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I limit	Polarization
2390.00	50.38	27.59	5.38	34.0	1	49.34	74.00	-24.66	Horizontal
2400.00	58.97	27.58	5.39	34.0	1	57.93	74.00	-16.07	Horizontal
2390.00	51.98	27.59	5.38	34.0	1	50.94	74.00	-23.06	Vertical
2400.00	60.43	27.58	5.39	34.0	1	59.39	74.00	-14.61	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 limit	Polarization
2390.00	37.51	27.59	5.38	34.0	1	36.47	54.00	-17.53	Horizontal
2400.00	45.67	27.58	5.39	34.01		44.63	54.00	-9.37	Horizontal
2390.00	39.23	27.59	5.38	34.01		38.19	54.00	-15.81	Vertical
2400.00	46.69	27.58	5.39	34.01		45.65	54.00	-8.35	Vertical
								·	
Test mode:		802.1	.11n(HT40) Test channel:			Highest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I limit	Polarization
2483.50	50.50	27.53	5.47	33.9	2	49.58	74.00	-24.42	Horizontal
2500.00	46.73	27.55	5.49	29.9	3	49.84	74.00	-24.16	Horizontal
2483.50	52.50	27.53	5.47	33.9	2	51.58	74.00	-22.42	Vertical
2500.00	49.00	27.55	5.49	29.9	3	52.11	74.00	-21.89	Vertical
Average va	lue:	1				ı			,
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	37.68	27.53	5.47	33.9	2	36.76	54.00	-17.24	Horizontal
2500.00	34.03	27.55	5.49	29.9	3	37.14	54.00	-16.86	Horizontal
2483.50	39.52	27.53	5.47	33.9	2	38.60	54.00	-15.40	Vertical
2500.00	35.86	27.55	5.49	29.9	3	38.97	54.00	-15.03	Vertical
Remark:									

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

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

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.4:2009 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 dE 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 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						

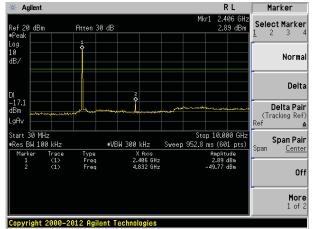


Test plot as follows:

Test mode:

802.11b

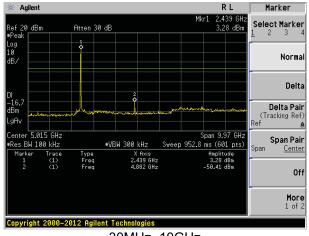
Lowest channel



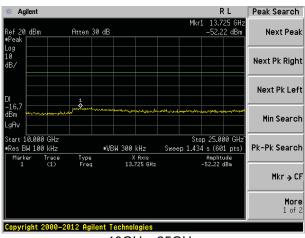
30MHz~10GHz

10GHz~25GHz

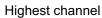
Middle channel

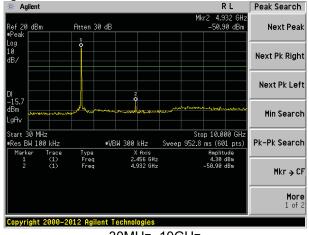


30MHz~10GHz

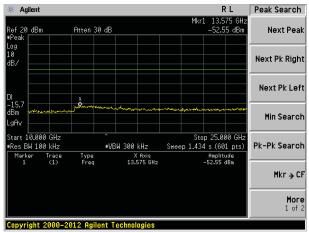


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

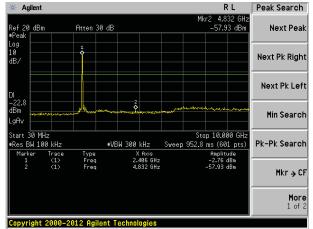
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Test mode:

802.11g

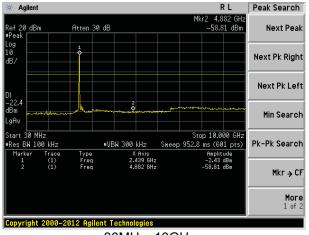
Lowest channel



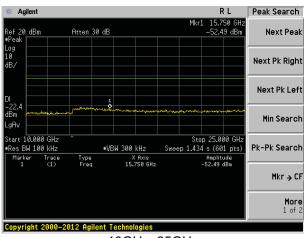
30MHz~10GHz

10GHz~25GHz

Middle channel

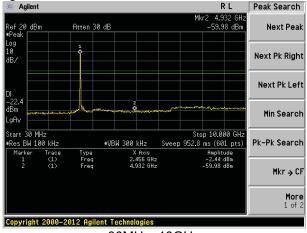


30MHz~10GHz

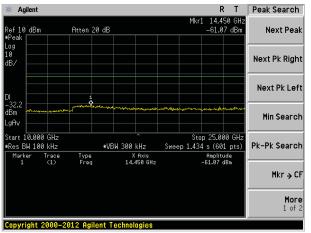


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

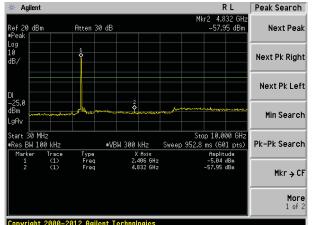


More 1 of 2

Test mode:

802.11n(HT20)

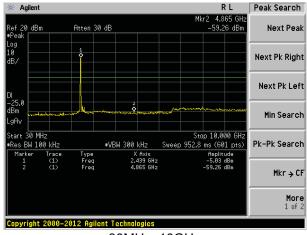
Lowest channel



30MHz~10GHz

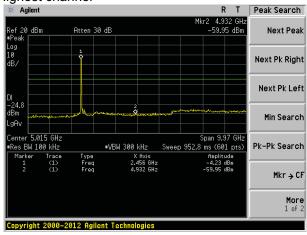
Technologies

Middle channel

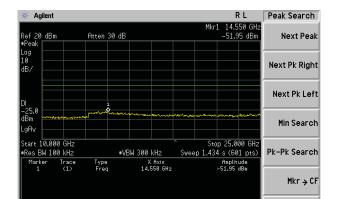


30MHz~10GHz

Highest channel

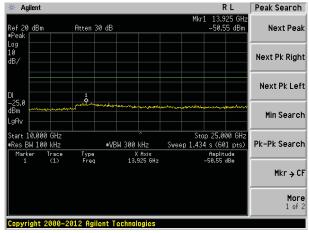


30MHz~10GHz

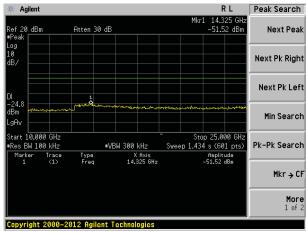


10GHz~25GHz

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10GHz~25GHz



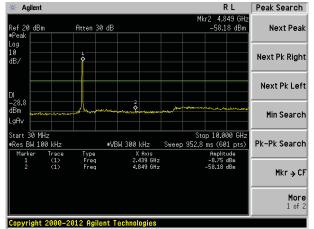
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

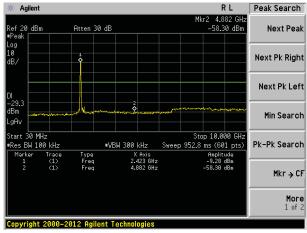


30MHz~10GHz

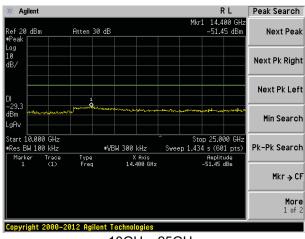
Peak Search 14.250 GHz -50.92 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search _gAv Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz Pk-Pk Search Res BW 100 kHz #VBW 300 kHz Type Freq X fixis 14.250 GHz Amplitude -58.92 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

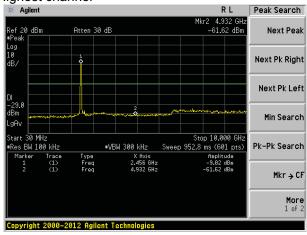


30MHz~10GHz

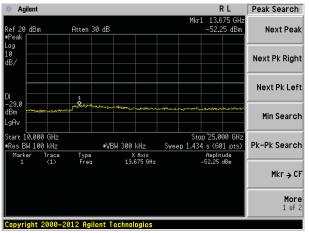


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.4:2009)								
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									

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	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 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.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
45.70	36.62	15.51	0.73	30.02	22.84	40.00	-17.16	Vertical
88.65	37.40	13.47	1.10	29.75	22.22	43.50	-21.28	Vertical
163.76	33.81	10.77	1.65	29.34	16.89	43.50	-26.61	Vertical
243.38	34.20	14.08	2.09	29.59	20.78	46.00	-25.22	Vertical
494.20	39.09	18.45	3.28	29.31	31.51	46.00	-14.49	Vertical
614.21	25.76	20.51	3.77	29.29	20.75	46.00	-25.25	Vertical
57.19	34.19	14.87	0.84	29.94	19.96	40.00	-20.04	Horizontal
115.32	32.56	13.31	1.32	29.60	17.59	43.50	-25.91	Horizontal
166.65	40.05	10.87	1.67	29.33	23.26	43.50	-20.24	Horizontal
247.68	39.23	14.07	2.11	29.63	25.78	46.00	-20.22	Horizontal
413.27	33.66	17.35	2.92	29.47	24.46	46.00	-21.54	Horizontal
605.66	32.27	20.47	3.74	29.30	27.18	46.00	-18.82	Horizontal

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■ Above 1GHz

Test mode:	<u> </u>	802.11b		Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.61	31.79	8.62	32.10	48.92	74.00	-25.08	Vertical
7236.00	34.42	36.19	11.68	31.97	50.32	74.00	-23.68	Vertical
9648.00	32.86	38.07	14.16	31.56	53.53	74.00	-20.47	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.23	31.79	8.62	32.10	47.54	74.00	-26.46	Horizontal
7236.00	34.14	36.19	11.68	31.97	50.04	74.00	-23.96	Horizontal
9648.00	32.42	38.07	14.16	31.56	53.09	74.00	-20.91	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	29.67	31.79	8.62	32.10	37.98	54.00	-16.02	Vertical
7236.00	23.28	36.19	11.68	31.97	39.18	54.00	-14.82	Vertical
9648.00	23.20	38.07	14.16	31.56	43.87	54.00	-10.13	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.75	31.79	8.62	32.10	37.06	54.00	-16.94	Horizontal
7236.00	22.72	36.19	11.68	31.97	38.62	54.00	-15.38	Horizontal
9648.00	22.17	38.07	14.16	31.56	42.84	54.00	-11.16	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.61	31.85	8.66	32.12	48.00	74.00	-26.00	Vertical
7311.00	34.45	36.37	11.71	31.91	50.62	74.00	-23.38	Vertical
9748.00	33.85	38.27	14.25	31.56	54.81	74.00	-19.19	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.05	31.85	8.66	32.12	48.44	74.00	-25.56	Horizontal
7311.00	33.07	36.37	11.71	31.91	49.24	74.00	-24.76	Horizontal
9748.00	33.73	38.27	14.25	31.56	54.69	74.00	-19.31	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	30.44	31.85	8.66	32.12	38.83	54.00	-15.17	Vertical
7311.00	22.76	36.37	11.71	31.91	38.93	54.00	-15.07	Vertical
9748.00	23.10	38.27	14.25	31.56	44.06	54.00	-9.94	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.15	31.85	8.66	32.12	38.54	54.00	-15.46	Horizontal
7311.00	22.16	36.37	11.71	31.91	38.33	54.00	-15.67	Horizontal
9748.00	23.44	38.27	14.25	31.56	44.40	54.00	-9.60	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. " \ast ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		-	Test o	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	45.33	31.90	8.70	32.1	15	53.78	74.	00	-20.22	Vertical
7386.00	35.25	36.49	11.76	31.8	33	51.67	74.	00	-22.33	Vertical
9848.00	37.23	38.62	14.31	31.7	77	58.39	74.	00	-15.61	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	44.56	31.90	8.70	32.1	15	53.01	74.	00	-20.99	Horizontal
7386.00	34.11	36.49	11.76	31.8	33	50.53	74.	00	-23.47	Horizontal
9848.00	33.39	38.62	14.31	31.7	77	54.55	74.	00	-19.45	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)	Prea Fact (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	36.21	31.90	8.70	32.1	15	44.66	54.	00	-9.34	Vertical
7386.00	25.15	36.49	11.76	31.8	33	41.57	54.	00	-12.43	Vertical
9848.00	25.72	38.62	14.31	31.7	77	46.88	54.	00	-7.12	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	34.90	31.90	8.70	32.1	15	43.35	54.	00	-10.65	Horizontal
7386.00	23.50	36.49	11.76	31.8	33	39.92	54.	00	-14.08	Horizontal
9848.00	22.64	38.62	14.31	31.7	77	43.80	54.	00	-10.20	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. " \ast ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Tes	t channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.77	31.79	8.62	32.10	48.08	74.00	-25.92	Vertical
7236.00	33.89	36.19	11.68	31.97	49.79	74.00	-24.21	Vertical
9648.00	32.48	38.07	14.16	31.56	53.15	74.00	-20.85	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.52	31.79	8.62	32.10	46.83	74.00	-27.17	Horizontal
7236.00	33.68	36.19	11.68	31.97	49.58	74.00	-24.42	Horizontal
9648.00	32.07	38.07	14.16	31.56	52.74	74.00	-21.26	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	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	28.90	31.79	8.62	32.10	37.21	54.00	-16.79	Vertical
7236.00	22.77	36.19	11.68	31.97	38.67	54.00	-15.33	Vertical
9648.00	22.83	38.07	14.16	31.56	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.09	31.79	8.62	32.10	36.40	54.00	-17.60	Horizontal
7236.00	22.27	36.19	11.68	31.97	38.17	54.00	-15.83	Horizontal
9648.00	21.83	38.07	14.16	31.56	42.50	54.00	-11.50	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:			Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.92	31.85	8.66	32.	12	47.31	74.	00	-26.69	Vertical
7311.00	34.02	36.37	11.71	31.9	91	50.19	74.	00	-23.81	Vertical
9748.00	33.54	38.27	14.25	31.	56	54.50	74.	00	-19.50	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.46	31.85	8.66	32.	12	47.85	74.	00	-26.15	Horizontal
7311.00	32.69	36.37	11.71	31.9	91	48.86	74.	00	-25.14	Horizontal
9748.00	33.44	38.27	14.25	31.	56	54.40	74.	00	-19.60	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.80	31.85	8.66	32.	12	38.19	54.	00	-15.81	Vertical
7311.00	22.34	36.37	11.71	31.9	91	38.51	54.	00	-15.49	Vertical
9748.00	22.80	38.27	14.25	31.	56	43.76	54.	00	-10.24	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.60	31.85	8.66	32.	12	37.99	54.	00	-16.01	Horizontal
7311.00	21.79	36.37	11.71	31.9	91	37.96	54.	00	-16.04	Horizontal
9748.00	23.16	38.27	14.25	31.	56	44.12	54.	00	-9.88	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.14	31.90	8.70	32.15	52.59	74.00	-21.41	Vertical
7386.00	34.49	36.49	11.76	31.83	50.91	74.00	-23.09	Vertical
9848.00	36.69	38.62	14.31	31.77	57.85	74.00	-16.15	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.56	31.90	8.70	32.15	52.01	74.00	-21.99	Horizontal
7386.00	33.45	36.49	11.76	31.83	49.87	74.00	-24.13	Horizontal
9848.00	32.89	38.62	14.31	31.77	54.05	74.00	-19.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.11	31.90	8.70	32.15	43.56	54.00	-10.44	Vertical
7386.00	24.43	36.49	11.76	31.83	40.85	54.00	-13.15	Vertical
9848.00	25.21	38.62	14.31	31.77	46.37	54.00	-7.63	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.96	31.90	8.70	32.15	42.41	54.00	-11.59	Horizontal
7386.00	22.86	36.49	11.76	31.83	39.28	54.00	-14.72	Horizontal
9848.00	22.16	38.62	14.31	31.77	43.32	54.00	-10.68	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)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4824.00	40.70	31.79	8.62	32	.10	49.01	74.	00	-24.99	Vertical
7236.00	34.48	36.19	11.68	31.	.97	50.38	74.	00	-23.62	Vertical
9648.00	32.90	38.07	14.16	31.	.56	53.57	74.	00	-20.43	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	39.31	31.79	8.62	32	.10	47.62	74.	00	-26.38	Horizontal
7236.00	34.19	36.19	11.68	31.	.97	50.09	74.	00	-23.91	Horizontal
9648.00	32.46	38.07	14.16	31.	.56	53.13	74.	00	-20.87	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4824.00	29.75	31.79	8.62	32	.10	38.06	54.	00	-15.94	Vertical
7236.00	23.34	36.19	11.68	31.	.97	39.24	54.	00	-14.76	Vertical
9648.00	23.24	38.07	14.16	31.	.56	43.91	54.	00	-10.09	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertical
4824.00	28.82	31.79	8.62	32	.10	37.13	54.	00	-16.87	Horizontal
7236.00	22.77	36.19	11.68	31.	.97	38.67	54.	00	-15.33	Horizontal
9648.00	22.20	38.07	14.16	31	.56	42.87	54.	00	-11.13	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.69	31.85	8.66	32.12	48.08	74.00	-25.92	Vertical
7311.00	34.50	36.37	11.71	31.91	50.67	74.00	-23.33	Vertical
9748.00	33.89	38.27	14.25	31.56	54.85	74.00	-19.15	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.11	31.85	8.66	32.12	48.50	74.00	-25.50	Horizontal
7311.00	33.12	36.37	11.71	31.91	49.29	74.00	-24.71	Horizontal
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:		•		•		•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.51	31.85	8.66	32.12	38.90	54.00	-15.10	Vertical
7311.00	22.81	36.37	11.71	31.91	38.98	54.00	-15.02	Vertical
9748.00	23.13	38.27	14.25	31.56	44.09	54.00	-9.91	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.21	31.85	8.66	32.12	38.60	54.00	-15.40	Horizontal
7311.00	22.20	36.37	11.71	31.91	38.37	54.00	-15.63	Horizontal
9748.00	23.47	38.27	14.25	31.56	44.43	54.00	-9.57	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", 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	45.46	31.90	8.70	32.15	53.91	74.00	-20.09	Vertical
7386.00	35.33	36.49	11.76	31.83	51.75	74.00	-22.25	Vertical
9848.00	37.29	38.62	14.31	31.77	58.45	74.00	-15.55	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.68	31.90	8.70	32.15	53.13	74.00	-20.87	Horizontal
7386.00	34.19	36.49	11.76	31.83	50.61	74.00	-23.39	Horizontal
9848.00	33.44	38.62	14.31	31.77	54.60	74.00	-19.40	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	36.33	31.90	8.70	32.15	44.78	54.00	-9.22	Vertical
7386.00	25.24	36.49	11.76	31.83	41.66	54.00	-12.34	Vertical
9848.00	25.78	38.62	14.31	31.77	46.94	54.00	-7.06	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.01	31.90	8.70	32.15	43.46	54.00	-10.54	Horizontal
7386.00	23.57	36.49	11.76	31.83	39.99	54.00	-14.01	Horizontal
9848.00	22.69	38.62	14.31	31.77	43.85	54.00	-10.15	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	Te	st channel:	Lowe	est	
Peak value:						1		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i i evei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	38.91	31.81	8.63	32.11	47.24	74.00	-26.76	Vertical
7266.00	33.35	36.28	11.69	31.94	49.38	74.00	-24.62	Vertical
9688.00	32.09	38.13	14.21	31.52	52.91	74.00	-21.09	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.80	31.81	8.63	32.11	46.13	74.00	-27.87	Horizontal
7266.00	33.20	36.28	11.69	31.94	49.23	74.00	-24.77	Horizontal
9688.00	31.72	38.13	14.21	31.52	52.54	74.00	-21.46	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	28.11	31.81	8.63	32.11	36.44	54.00	-17.56	Vertical
7266.00	22.24	36.28	11.69	31.94	38.27	54.00	-15.73	Vertical
9688.00	22.46	38.13	14.21	31.52	43.28	54.00	-10.72	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.41	31.81	8.63	32.11	35.74	54.00	-18.26	Horizontal
7266.00	21.81	36.28	11.69	31.94	37.84	54.00	-16.16	Horizontal
9688.00	21.49	38.13	14.21	31.52	42.31	54.00	-11.69	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:			Middle		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.21	31.85	8.66	32.12		46.60	74.00		-27.40	Vertical
7311.00	33.57	36.37	11.71	31	.91	49.74	74.00		-24.26	Vertical
9748.00	33.22	38.27	14.25	31.56		54.18	74.00		-19.82	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.87	31.85	8.66	32	2.12	47.26	74.00		-26.74	Horizontal
7311.00	32.30	36.37	11.71	31.91		48.47	74.00		-25.53	Horizontal
9748.00	33.15	38.27	14.25	31.56		54.11	74.	00	-19.89	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val			,							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.15	31.85	8.66	32	2.12	37.54	54.	00	-16.46	Vertical
7311.00	21.91	36.37	11.71	31	.91	38.08	54.	00	-15.92	Vertical
9748.00	22.49	38.27	14.25	31	.56	43.45	54.	00	-10.55	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.04	31.85	8.66	32.12		37.43	54.	00	-16.57	Horizontal
7311.00	21.41	36.37	11.71	31	.91	37.58	54.	00	-16.42	Horizontal
9748.00	22.88	38.27	14.25	31	.56	43.84	54.	00	-10.16	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(HT40)		Test	channel:	Highest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	42.91	31.88	8.68	32.13	51.34	74.00	-22.66	Vertical
7356.00	33.72	36.45	11.75	31.86	50.06	74.00	-23.94	Vertical
9808.00	36.14	38.43	14.29	31.68	57.18	74.00	-16.82	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.53	31.88	8.68	32.13	50.96	74.00	-23.04	Horizontal
7356.00	32.78	36.45	11.75	31.86	49.12	74.00	-24.88	Horizontal
9808.00	32.38	38.43	14.29	31.68	53.42	74.00	-20.58	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	33.98	31.88	8.68	32.13	42.41	54.00	-11.59	Vertical
7356.00	23.68	36.45	11.75	31.86	40.02	54.00	-13.98	Vertical
9808.00	24.68	38.43	14.29	31.68	45.72	54.00	-8.28	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.99	31.88	8.68	32.13	41.42	54.00	-12.58	Horizontal
7356.00	22.20	36.45	11.75	31.86	38.54	54.00	-15.46	Horizontal
9808.00	21.67	38.43	14.29	31.68	42.71	54.00	-11.29	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

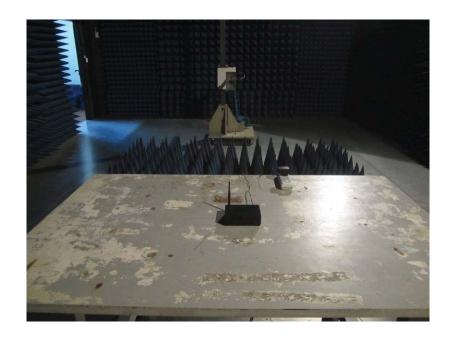
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15050073801

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