

Manufacturer:

Global United Technology Services Co., Ltd.

Report No.: GTS201909000204F01

Spectrum Report

Applicant: Autel Intelligent Tech. Corp., Ltd.

Address of Applicant: 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili,

Nanshan, Shenzhen 518055, China Autel Intelligent Tech. Corp., Ltd.

Address of 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili,

Manufacturer: Nanshan, Shenzhen 518055, China Factory 1: Autel Intelligent Technology Corp.,Ltd.

Address of Factory 1: 6th Floor, Building 1, Yanxiang Zhigu, NO.11 Gaoxin West

Rd, Guangming New District, Shenzhen City, Guangdong

Province, China.

Factory 2: AUTEL VIETNAM COMPANY LIMITED

Address of Factory 2: 4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone,

Hong Phong Township, An Duong County, Hai Phong, Viet

Nam

Equipment Under Test (EUT)

Product Name: MaxiFlash VCI

Model No.: MaxiFlash VCI

Trade Mark: Autel

FCC ID: WQ818MXFULTRA

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

Date of sample receipt: September 25, 2019

Date of Test: September 25-29, 2019

Date of report issued: September 29, 2019

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	September 29, 2019	Original

Prepared By:	Joseph Cu	Date:	September 29, 2019
	Project Engineer	_	
Check By:	Jobinson A	Date:	September 29, 2019
	Reviewer	_	



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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



5 General Information

5.1 General Description of EUT

MaxiFlash VCI
MaxiFlash VCI
123456789101112
V3
V1.01.05
GTS201909000204-1
Engineer sample
Engineer sample
802.11b/802.11g /802.11n(HT20): 11
802.11n(HT40):7
5MHz
802.11b: Direct Sequence Spread Spectrum (DSSS)
802.11g/802.11n(H20)/802.11n(HT40):
Orthogonal Frequency Division Multiplexing (OFDM)
Integral Antenna
1.9dBi
Adapter
Model: A361-1203000DI
Input: AC 100-240V, 50/60Hz, 1.5A
Output: DC 12V, 3000mA



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	Frequen	cy (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



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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

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

Mode	802.11b	11b 802.11g 802.11n(HT		802.11n(HT40)
Data rate	1Mbps	6Mbps 6.5Mbps		13Mbps

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC —Registration No.: 381383

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 381383.

• IC —Registration No.: 9079A

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

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default



6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020	
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020	
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020	
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020	
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020	
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020	
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020	
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020	
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020	
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020	
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020	
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020	
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019	
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019	
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019	
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020	



Cond	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 26 2019	June. 25 2020		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 26 2019	June. 25 2020		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 26 2019	June. 25 2020		
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 26 2019	June. 25 2020		
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 26 2019	June. 25 2020		

RF C	onducted Test:					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 26 2019	June. 25 2020
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 26 2019	June. 25 2020
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 26 2019	June. 25 2020
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 26 2019	June. 25 2020
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 26 2019	June. 25 2020
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 26 2019	June. 25 2020
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 26 2019	June. 25 2020
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 26 2019	June. 25 2020

Gene	eral used equipment:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

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

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

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

EUT Antenna:

The antennas are integral antenna, the best case gain of the antennas are 1.9dBi, reference to the appendix II for details



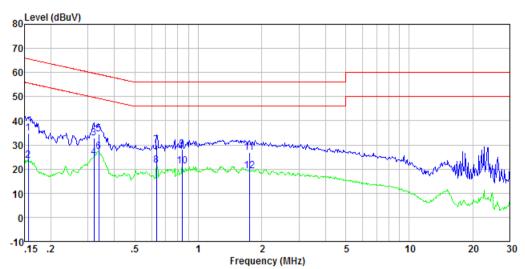
7.2 Conducted Emissions

Toot Doguiroment	FCC Part15 C Section 15.207	7			
Test Requirement:					
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto			
Limit:	Frequency range (MHz)				
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5 5-30	56 60	46	_	
	* Decreases with the logarithr		50		
Test setup:	Reference Plane				
Took procedure	AUX Equipment	Filter — AC po			
Test procedure:	 The E.U.T and simulators a line impedance stabilizatio 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohr termination. (Please refer the photographs). Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10. 	n network (L.I.S.N.). Tedance for the measure also connected to the m/50uH coupling impersorment the block diagram of the checked for maximum different the maximum emissional all of the interface care	This provides a ring equipment. The main power throus dance with 500hm of the test setup and a conducted sion, the relative lables must be chan	igh a i d	
Test Instruments:	Refer to section 6.0 for details	3			
Test mode:	Refer to section 5.2 for details	3			
Test environment:	Temp.: 25 °C Hur	nid.: 52%	Press.: 1012	mbar	
Test voltage:	AC 120V, 60Hz	<u> </u>	<u> </u>		
Test results:	Pass				
Tost rosuits.	1 400				



Measurement data

Line:



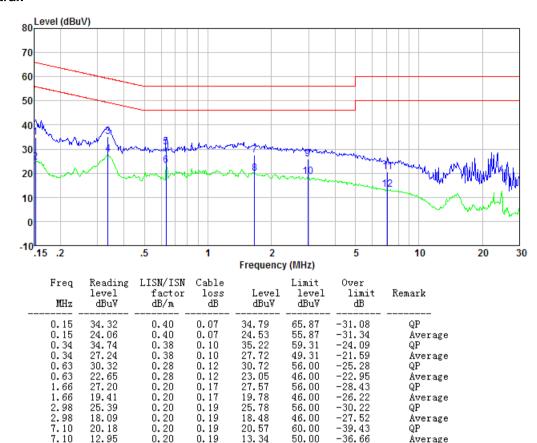
Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0. 16 0. 16 0. 32 0. 32 0. 34 0. 34 0. 63 0. 63 0. 84 0. 84	34. 34 23. 15 32. 41 24. 45 34. 11 26. 56 29. 45 21. 22 27. 69 21. 01	0. 40 0. 40 0. 39 0. 39 0. 38 0. 38 0. 28 0. 28 0. 23	0.08 0.08 0.10 0.10 0.10 0.10 0.12 0.12 0.14 0.14	34. 82 23. 63 32. 90 24. 94 34. 59 27. 04 29. 85 21. 62 28. 06 21. 38	65. 65 55. 65 59. 71 49. 71 59. 27 49. 27 56. 00 46. 00 46. 00	-30.83 -32.02 -26.81 -24.77 -24.68 -22.23 -26.15 -24.38 -27.94 -24.62	QP Average QP Average QP Average QP Average QP Average QP Average
1.74 1.74	26.35 18.91	0.20 0.20	0.17 0.17	26.72 19.28	56.00 46.00	-29.28 -26.72	QP Average

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Neutral:

Report No.: GTS201909000204F01

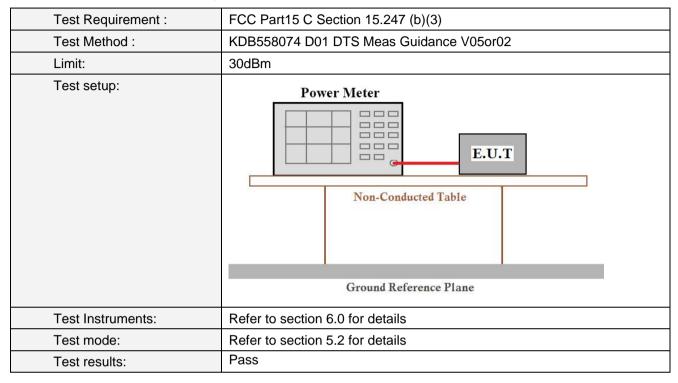


Notes:

- 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)	Liiiii(abiii)	Nesuit
Lowest	15.02	14.48	14.33	14.28		
Middle	14.88	14.63	12.44	14.48	30.00	Pass
Highest	15.23	15.26	12.89	14.53		



7.4 Channel Bandwidth & 99% Occupy Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	KDB558074 D01 DTS Meas Guidance V05or02
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 5.2 for details
Test results:	Pass



Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Liiiii(Ki iZ)	Nesuit
Lowest	10.130	16.594	17.832	36.679		
Middle	10.084	16.610	17.819	36.650	>500	Pass
Highest	10.135	16.601	17.817	36.681		

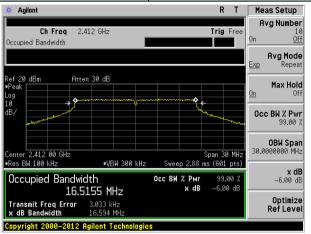
Test CH		Result			
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Result
Lowest	13.8380	16.5155	17.6995	36.3354	
Middle	13.7416	16.5164	17.6975	36.3325	Pass
Highest	13.7974	16.5123	17.6985	36.3316	



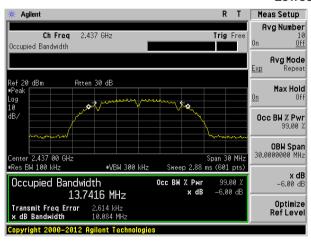
Test plot as follows:

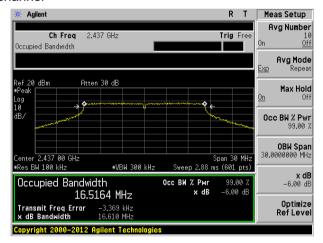
802.11b 802.11g



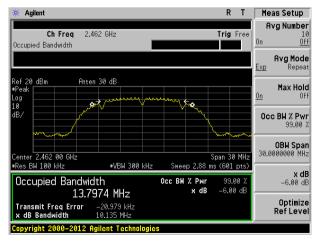


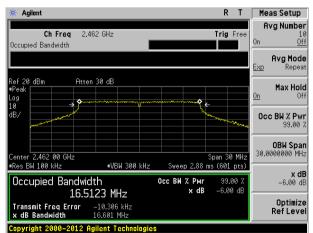
Lowest channel





Middle channel



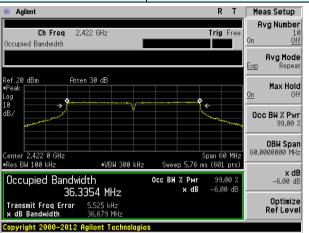


Highest channel

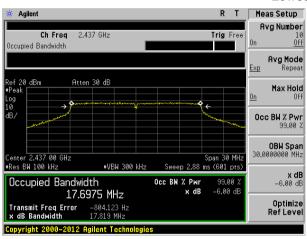


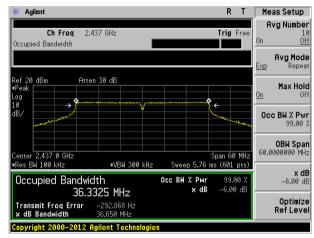
802.11n(HT20) 802.11n(HT40)



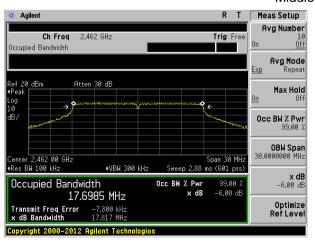


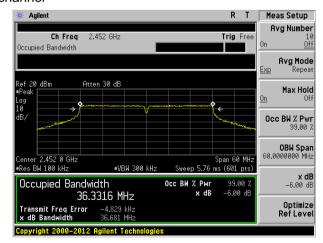
Lowest channel





Middle channel



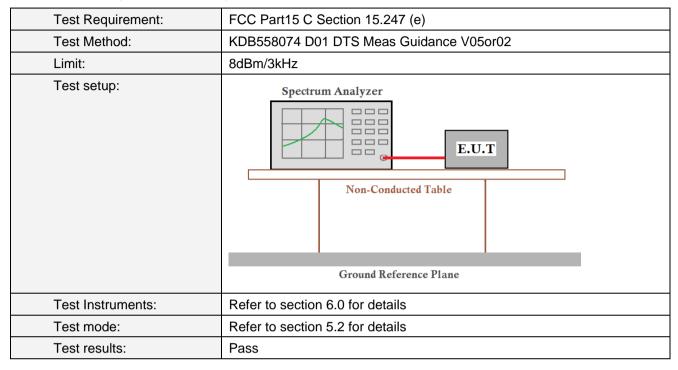


Highest channel

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7.5 Power Spectral Density



Measurement Data

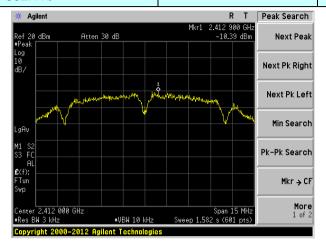
Test CH		Power Spectra	Limit	Result		
rest or r	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-10.39	-13.69	-14.16	-15.40		
Middle	-10.65	-13.80	-14.23	-16.36	8.00	Pass
Highest	-9.24	-13.17	-11.81	-15.82		

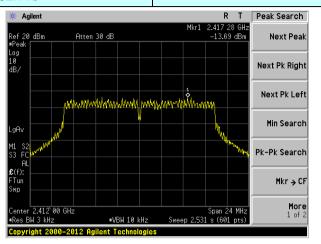


Test plot as follows:

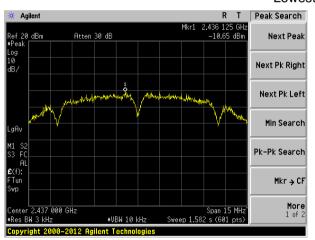
Report No.: GTS201909000204F01

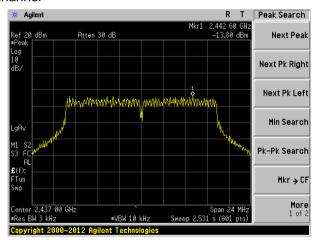
802.11b 802.11b



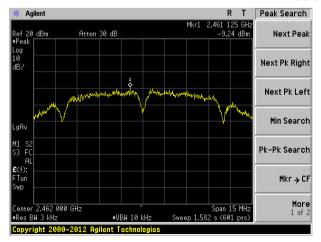


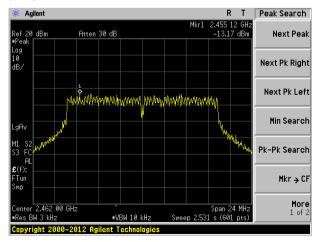
Lowest channel





Middle channel



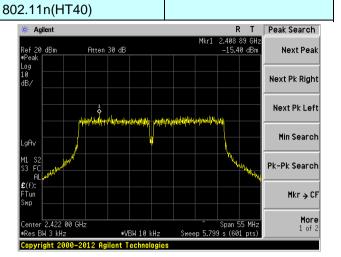


Highest channel

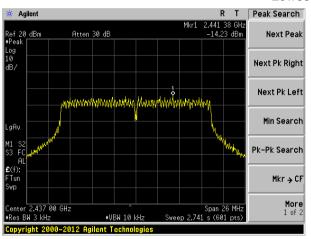


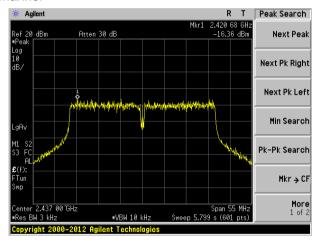
802.11n(HT20) Peak Search Agilent R T 2.407 36 GH: -14.16 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search Mkr → CF More 1 of 2 ^ Span 26 MHz Sweep 2.741 s (601 pts) Center 2.412 00 GHz Res BW 3 kHz

≠VBW 10 kHz

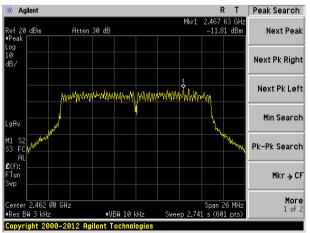


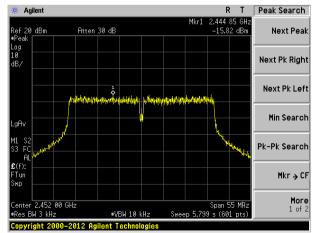
Lowest channel





Middle channel





Highest channel



7.6 Band edges

7.6.1 Conducted Emission Method

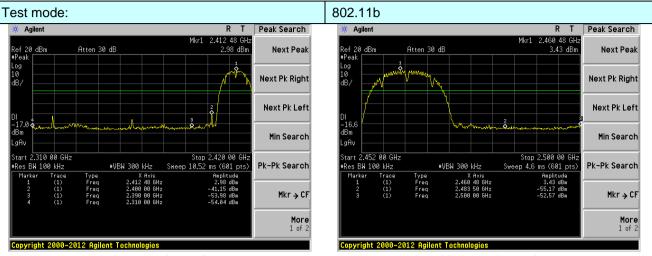
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074 D01 DTS Meas Guidance V05or02				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 5.2 for details				
Test results:	Pass				



Test plot as follows:

Test mode:

Report No.: GTS201909000204F01



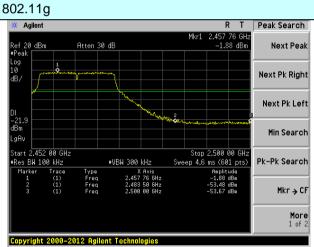
More 1 of 2

Lowest channel

Highest channel

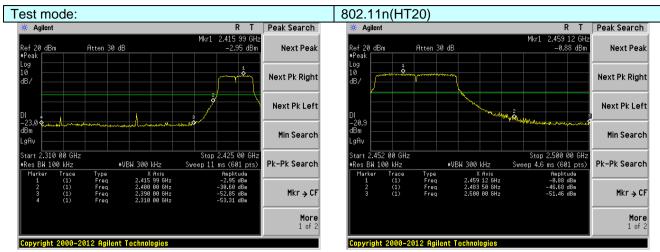
Lowest channel

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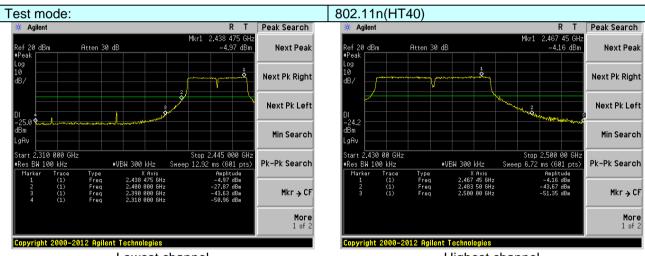
Highest channel





Lowest channel

Highest channel



Highest channel Lowest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.20			
Test Method:	ANSI C63.10: 2					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	Value				
		Detector Peak	RBW 1MHz	VBW 3MHz	Peak	
	Above 1GHz	Average	1MHz	3MHz	Average	
Limit:	Frequency Limit (dBuV/m @3m) Value					
	Above 1	GHz	54.0		Average	
Test setup:			74.0	0	Peak	
	Tum Table < 150cm > 4	< 3n	Test Antenna	1		
Test Procedure:	1 The FUT was	s placed on the			.5 meters above	
	determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremen 4. For each sus and then the and the rota the maximum 5. The test-rece Specified Ba 6. If the emission the limit spec of the EUT w have 10dB m peak or avera sheet. 7. The radiation And found th	e position of the set 3 meters ch was mounted height is varied termine the mad vertical polar at. Spected emission antenna was to table was turned reading. Ever system was not level of the Edified, then testivould be reported age method as a measurement.	e highest race away from the don the top of from one naximum value izations of the control of th	diation. The interference of a variable of the field one antenna anten	remeters above the strength. Both are set to make the ed to its worst case neter to 4 meters of degrees to find anction and 10dB lower than d the peak values ions that did not sing peak, quasi-	
Test Instruments:	Refer to section					
Test mode:	Refer to section					
Test results:	Pass					



Measurement data:

Report No.: GTS201909000204F01

All antennas have test, only the wo	orst case ANT 1 report

Test mode:		802.1	1b		Tes	est channel: L		Lowest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or	Level (dBuV/m)	Limit Line	I Limit	Polarization
2310.00	39.63	27.14	6.19	42.0	4	30.92	74.00	-43.08	Horizontal
2390.00	47.97	27.37	6.31	42.1	1	39.54	74.00	-34.46	Horizontal
2310.00	38.17	27.14	6.19	42.0	4	29.46	74.00	-44.54	Vertical
2390.00	49.22	27.37	6.31	42.1	1	40.79	74.00	-33.21	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or	Level (dBuV/m)	Limit Line	I I imit	Polarization
2310.00	29.97	27.14	6.19	42.0	4	21.26	54.00	-32.74	Horizontal
2390.00	37.05	27.37	6.31	42.1	1	28.62	54.00	-25.38	Horizontal
2310.00	28.63	27.14	6.19	42.0	4	19.92	54.00	-34.08	Vertical
2390.00	39.02	27.37	6.31	42.1	1	30.59	54.00	-23.41	Vertical
Test mode:		802.1	1b		Tes	st channel:	Highest		
Peak value:		.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or	Level (dBuV/m)	Limit Line	I Limit	Polarization
2483.50	48.42	27.66	6.45	42.0	1	40.52	74.00	-33.48	Horizontal
2500.00	40.89	27.70	6.47	42.0	0	33.06	74.00	-40.94	Horizontal
2483.50	48.27	27.66	6.45	42.0	1	40.37	74.00	-33.63	Vertical
2500.00	42.05	27.70	6.47	42.0	0	34.22	74.00	-39.78	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or	Level (dBuV/m)	Limit Line	I Limit	Polarization

42.01

42.00

42.01

42.00

29.13

25.69

29.90

24.49

54.00

54.00

54.00

54.00

-24.87

-28.31

-24.10

-29.51

Horizontal

Horizontal

Vertical

Vertical

37.03

33.52

37.80

32.32

2483.50

2500.00

2483.50

2500.00

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

27.66

27.70

27.66

27.70

6.45

6.47

6.45

6.47



Test mode:		802.1	1g	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 (dBuV/m)	I I imit	Polarization	
2310.00	39.61	27.14	6.19	42.04	30.90	74.00	-43.10	Horizontal	
2390.00	47.94	27.37	6.31	42.11	39.51	74.00	-34.49	Horizontal	
2310.00	38.15	27.14	6.19	42.04	29.44	74.00	-44.56	Vertical	
2390.00	49.19	27.37	6.31	42.11	40.76	74.00	-33.24	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	
2310.00	29.96	27.14	6.19	42.04	21.25	54.00	-32.75	Horizontal	
2390.00	37.03	27.37	6.31	42.11	28.60	54.00	-25.40	Horizontal	
2310.00	28.62	27.14	6.19	42.04	19.91	54.00	-34.09	Vertical	
2390.00	39.00	27.37	6.31	42.11	30.57	54.00	-23.43	Vertical	
Test mode:		802.1	1g	Т	est channel:		Highest		
Peak value:									
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp	Level	Limit Line	Over		
(1411 12)				Factor (dB)	(dBuV/m)	(dBuV/m)	Limit	Polarization	
2483.50	(dBuV) 48.40	(dB/m) 27.66	(dB) 6.45	(dB) 42.01			I I imit	Polarization Horizontal	
, ,	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Limit (dB)		
2483.50	(dBuV) 48.40	(dB/m) 27.66	(dB) 6.45	(dB) 42.01	(dBuV/m) 40.50	(dBuV/m) 74.00	(dB) -33.50	Horizontal	
2483.50 2500.00	(dBuV) 48.40 40.87	(dB/m) 27.66 27.70	(dB) 6.45 6.47	(dB) 42.01 42.00	(dBuV/m) 40.50 33.04	(dBuV/m) 74.00 74.00	(dB) -33.50 -40.96	Horizontal Horizontal	
2483.50 2500.00 2483.50	(dBuV) 48.40 40.87 48.24 42.03	(dB/m) 27.66 27.70 27.66	(dB) 6.45 6.47 6.45	(dB) 42.01 42.00 42.01	(dBuV/m) 40.50 33.04 40.34	(dBuV/m) 74.00 74.00 74.00	-33.50 -40.96 -33.66	Horizontal Horizontal Vertical	
2483.50 2500.00 2483.50 2500.00	(dBuV) 48.40 40.87 48.24 42.03	(dB/m) 27.66 27.70 27.66	(dB) 6.45 6.47 6.45	(dB) 42.01 42.00 42.01	(dBuV/m) 40.50 33.04 40.34 34.20	(dBuV/m) 74.00 74.00 74.00	-33.50 -40.96 -33.66 -39.80	Horizontal Horizontal Vertical	
2483.50 2500.00 2483.50 2500.00 Average va Frequency	(dBuV) 48.40 40.87 48.24 42.03 lue: Read Level	(dB/m) 27.66 27.70 27.66 27.70 Antenna Factor	(dB) 6.45 6.47 6.45 6.47 Cable Loss	(dB) 42.01 42.00 42.01 42.00 Preamp Factor	(dBuV/m) 40.50 33.04 40.34 34.20 Level	74.00 74.00 74.00 74.00 74.00	-33.50 -40.96 -33.66 -39.80 Over Limit	Horizontal Horizontal Vertical Vertical	
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	(dBuV) 48.40 40.87 48.24 42.03 lue: Read Level (dBuV)	(dB/m) 27.66 27.70 27.66 27.70 Antenna Factor (dB/m)	(dB) 6.45 6.47 6.45 6.47 Cable Loss (dB)	(dB) 42.01 42.00 42.01 42.00 Preamp Factor (dB)	(dBuV/m) 40.50 33.04 40.34 34.20 Level (dBuV/m)	74.00 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	-33.50 -40.96 -33.66 -39.80 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization	
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	(dBuV) 48.40 40.87 48.24 42.03 lue: Read Level (dBuV) 37.02	(dB/m) 27.66 27.70 27.66 27.70 Antenna Factor (dB/m) 27.66	(dB) 6.45 6.47 6.45 6.47 Cable Loss (dB) 6.45	(dB) 42.01 42.00 42.01 42.00 Preamp Factor (dB) 42.01	(dBuV/m) 40.50 33.04 40.34 34.20 Level (dBuV/m) 29.12	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Climit (dB) -33.50 -40.96 -33.66 -39.80 Over Limit (dB) -24.88	Horizontal Horizontal Vertical Vertical Polarization Horizontal	



Test mode:		802.1	1n(HT20)		Test channel:		_owest		
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.60	27.14	6.19	42.0	4	30.89	74.00	-43.11	Horizontal
2390.00	47.93	27.37	6.31	42.1	1	39.50	74.00	-34.50	Horizontal
2310.00	38.14	27.14	6.19	42.0	4	29.43	74.00	-44.57	Vertical
2390.00	49.18	27.37	6.31	42.1	1	40.75	74.00	-33.25	Vertical
Average va	lue:								_
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.95	27.14	6.19	42.0	4	21.24	54.00	-32.76	Horizontal
2390.00	37.03	27.37	6.31	42.1	1	28.60	54.00	-25.40	Horizontal
2310.00	28.61	27.14	6.19	42.0		19.90	54.00	-34.10	Vertical
2390.00	39.00	27.37	6.31	42.1	1	30.57	54.00	-23.43	Vertical
Test mode:		802.1	1n(HT20)		Tes	st channel:	ŀ	Highest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.38	27.66	6.45	42.0	1	40.48	74.00	-33.52	Horizontal
2500.00	40.86	27.70	6.47	42.0	0	33.03	74.00	-40.97	Horizontal
2483.50	48.22	27.66	6.45	42.0	1	40.32	74.00	-33.68	Vertical
2500.00	42.02	27.70	6.47	42.0	0	34.19	74.00	-39.81	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.01	27.66	6.45	42.0	1	29.11	54.00	-24.89	Horizontal
2500.00	33.50	27.70	6.47	42.0	0	25.67	54.00	-28.33	Horizontal
2483.50	37.77	27.66	6.45	42.0	1	29.87	54.00	-24.13	Vertical
2500.00	32.30	27.70	6.47	42.0	0	24.47	54.00	-29.53	Vertical



Test mode:		802.1	1n(HT40)		Test channel:		Lowest		
Peak value:	:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or Or	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
2310.00	39.50	27.14	6.19	42.0	4	30.79	74.00	-43.21	Horizontal
2390.00	47.79	27.37	6.31	42.1	1	39.36	74.00	-34.64	Horizontal
2310.00	38.03	27.14	6.19	42.04	4	29.32	74.00	-44.68	Vertical
2390.00	49.01	27.37	6.31	42.1	1	40.58	74.00	-33.42	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or Or	Level (dBuV/m)	Limit Line (dBuV/m)		Polarization
2310.00	29.88	27.14	6.19	42.0	4	21.17	54.00	-32.83	Horizontal
2390.00	36.94	27.37	6.31	42.1	1	28.51	54.00	-25.49	Horizontal
2310.00	28.53	27.14	6.19	42.04	4	19.82	54.00	-34.18	Vertical
2390.00	38.90	27.37	6.31	42.1	1	30.47	54.00	-23.53	Vertical
Test mode:	Test mode:		11n(HT40)		Test channel:		Highest		
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or Or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	48.24	27.66	6.45	42.0	1	40.34	74.00	-33.66	Horizontal
2500.00	40.75	27.70	6.47	42.00	0	32.92	74.00	-41.08	Horizontal
2483.50	48.06	27.66	6.45	42.0	1	40.16	74.00	-33.84	Vertical
2500.00	41.89	27.70	6.47	42.00	0	34.06	74.00	-39.94	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or Or	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
2483.50	36.92	27.66	6.45	42.0	1	29.02	54.00	-24.98	Horizontal

2500.00 Remarks:

2500.00

2483.50

1. Only the worst case Main Antenna test data.

33.43

37.68

32.23

27.70

27.66

27.70

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

42.00

42.01

42.00

25.60

29.78

24.40

54.00

54.00

54.00

-28.40

-24.22

-29.60

Horizontal

Vertical

Vertical

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

6.47

6.45

6.47

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



7.7 Spurious Emission

7.7.1 Conducted Emission Method

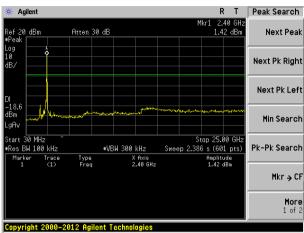
Test Requirement:	FCC Part15 C Section 15.247 (d)						
·							
Test Method:	thod: KDB558074 D01 DTS Meas Guidance V05or02						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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 5.2 for details						
Test results:	Pass						



Test plot as follows:

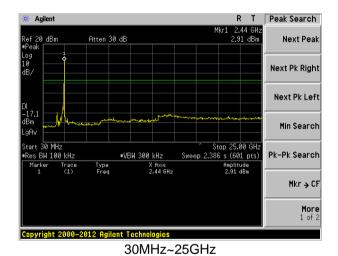
Test plot as follows

802.11b Lowest channel

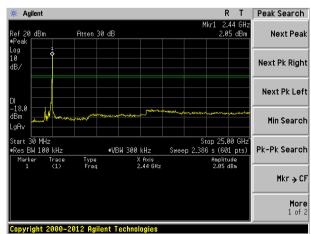


30MHz~25GHz

Middle channel



Highest channel



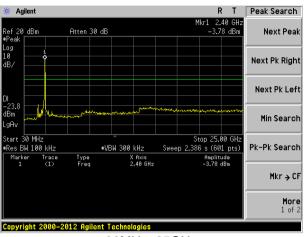
30MHz~25GHz

Report No.: GTS201909000204F01



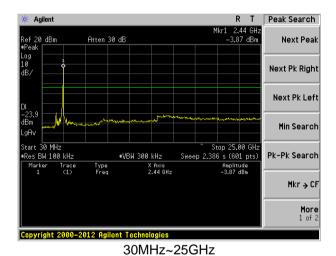
802.11g

Lowest channel

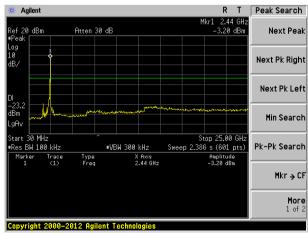


30MHz~25GHz

Middle channel



Highest channel

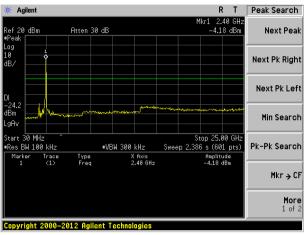


30MHz~25GHz



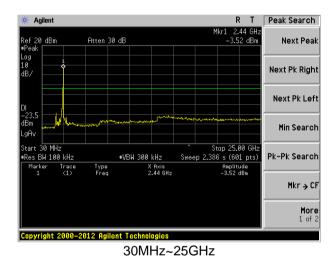
802.11n(HT20)

Lowest channel

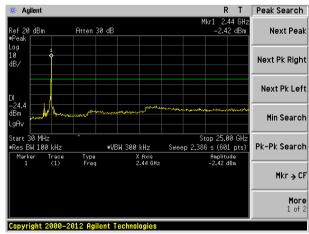


30MHz~25GHz

Middle channel



Highest channel

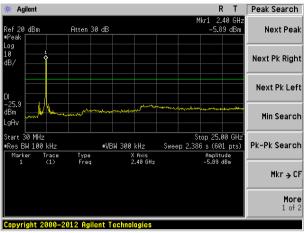


30MHz~25GHz



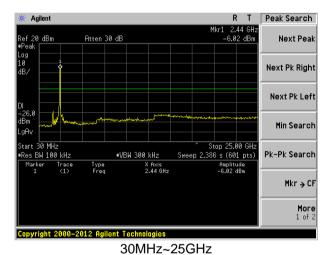
802.11n(HT40)

Lowest channel



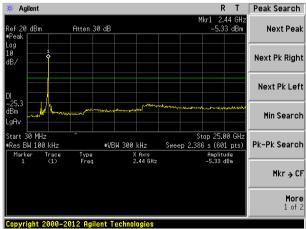
30MHz~25GHz

Middle channel



Highest channel





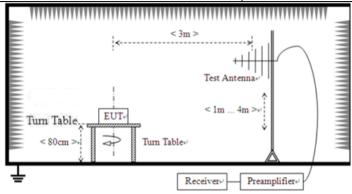
30MHz~25GHz



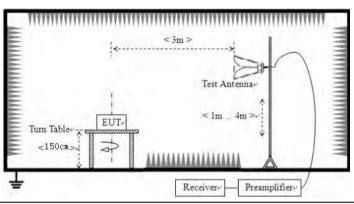
7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector		RBW		VBW	Value		
	9KHz-150KHz		Quasi-peak		200Hz		z Quasi-peak		
	150KHz-30MHz	Quasi-peak		9KF	9KHz		z Quasi-peak		
	30MHz-1GHz	Qi	ıasi-peak	100K	Hz	300KH	Iz Quasi-peak		
	Above 1GHz		Peak	1MF	łz	3MHz	z Peak		
	Above 1G112		Peak	1MF	łz	10Hz	Average		
Limit:	Frequency		Limit (u\	//m)	٧	'alue	Measurement Distance		
	0.009MHz-0.490M	lHz	2400/F(KHz)		QP		300m		
	0.490MHz-1.705MHz		24000/F(KHz)		QP		300m		
	1.705MHz-30MHz		30		QP		30m		
	30MHz-88MHz		100		QP				
	88MHz-216MHz		150		QP				
	216MHz-960MH	Z	200			QP	3m		
	960MHz-1GHz		500		QP		Om		
	Above 1GHz	500				erage			
	7.5576 151.12		5000)0 Pe		Peak			
Test setup:	For radiated emiss	sions	from 9kH	z to 30	MH:	Z			
	Tum Table Tum Table Im Receiver Receiver Tum Table Receiver Receiver Tum Table Receiver Tum Table Receiver Tum Table Receiver Receiver Tum Table R								





For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details



Report No.: GTS201909000204F01									
Test mode:	Refer to s	Refer to section 5.2 for details							
Test voltage:	AC120V 6	AC120V 60Hz							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar			
Test voltage:	AC 120V,	60Hz							
Test results:	Pass	Pass							

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2. 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:

■ 9kHz~30MHz

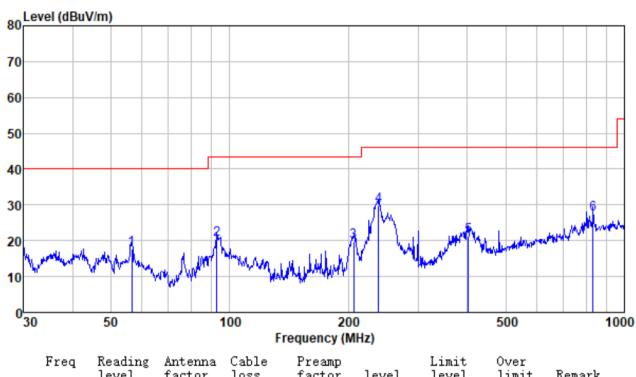
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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■ Below 1GHz

Horizontal:

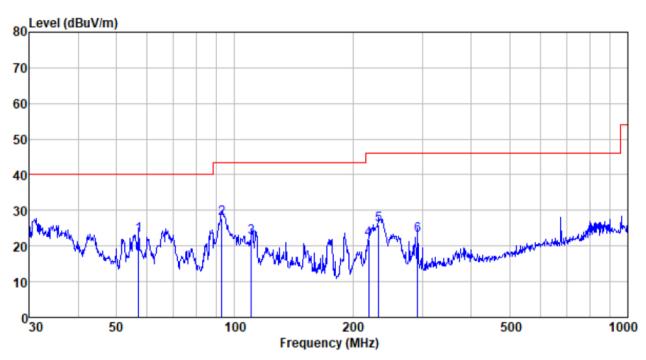


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
56.593	41.67	11.62	0.83	36.28	17.84	40.00	-22.16	QP
92.787	44.69	11.11	1.13	36.66	20.27	43.50	-23.23	QP
206.398	44.71	10.65	1.88	37.34	19.90	43.50	-23.60	QP
238.310	53.23	11.78	2.06	37.37	29.70	46.00	-16.30	QP
401.839	40.45	15.34	2.86	37.52	21.13	46.00	-24.87	QP
833.317	38.81	21.71	4.58	37.61	27.49	46.00	-18.51	QP



Vertical:

Report No.: GTS201909000204F01



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
56.991	46.80	11.60	0.84	36.28	22.96	40.00	-17.04	QP
92.787	52.30	11.11	1.13	36.66	27.88	43.50	-15.62	QP
110.182	46.87	11.10	1.28	36.81	22.44	43.50	-21.06	QP
219.075	46.03	11.13	1.95	37.35	21.76	46.00	-24.24	QP
232.532	49.75	11.60	2.03	37.36	26.02	46.00	-19.98	QP
292.058	44.67	13.38	2.32	37.41	22.96	46.00	-23.04	QP

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■ Above 1GHz

All antennas have test, only the worst case ANT 1 report.

Test mode: 802.11b Test channel:					Lowe	est		
Peak value:		-		'		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.41	31.79	8.62	32.10	47.72	74.00	-26.28	Vertical
7236.00	33.66	36.19	11.68	31.97	49.56	74.00	-24.44	Vertical
9648.00	32.31	38.07	14.16	31.56	52.98	74.00	-21.02	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.22	31.79	8.62	32.10	46.53	74.00	-27.47	Horizontal
7236.00	33.48	36.19	11.68	31.97	49.38	74.00	-24.62	Horizontal
9648.00	31.92	38.07	14.16	31.56	52.59	74.00	-21.41	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.56	31.79	8.62	32.10	36.87	54.00	-17.13	Vertical
7236.00	22.55	36.19	11.68	31.97	38.45	54.00	-15.55	Vertical
9648.00	22.68	38.07	14.16	31.56	43.35	54.00	-10.65	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.80	31.79	8.62	32.10	36.11	54.00	-17.89	Horizontal
7236.00	22.08	36.19	11.68	31.97	37.98	54.00	-16.02	Horizontal
9648.00	21.68	38.07	14.16	31.56	42.35	54.00	-11.65	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.62	31.85	8.66	32.	12	47.01	74.	00	-26.99	Vertical
7311.00	33.83	36.37	11.71	31.	91	50.00	74.	00	-24.00	Vertical
9748.00	33.40	38.27	14.25	31.	56	54.36	74.	00	-19.64	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.21	31.85	8.66	32.	12	47.60	74.	00	-26.40	Horizontal
7311.00	32.53	36.37	11.71	31.	91	48.70	74.	00	-25.30	Horizontal
9748.00	33.32	38.27	14.25	31.	56	54.28	74.	00	-19.72	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 (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.53	31.85	8.66	32.	12	37.92	54.	00	-16.08	Vertical
7311.00	22.16	36.37	11.71	31.	91	38.33	54.	00	-15.67	Vertical
9748.00	22.67	38.27	14.25	31.	56	43.63	54.	00	-10.37	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.36	31.85	8.66	32.	12	37.75	54.	00	-16.25	Horizontal
7311.00	21.63	36.37	11.71	31.	91	37.80	54.	00	-16.20	Horizontal
9748.00	23.04	38.27	14.25	31.	56	44.00	54.	00	-10.00	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

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



Test mode:		802.11b			Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	eamp ctor dB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	43.62	31.90	8.70	32	2.15	52.07	74.	00	-21.93	Vertical
7386.00	34.17	36.49	11.76	31	.83	50.59	74.	00	-23.41	Vertical
9848.00	36.46	38.62	14.31	31	.77	57.62	74.	00	-16.38	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.12	31.90	8.70	32	2.15	51.57	74.	00	-22.43	Horizontal
7386.00	33.17	36.49	11.76	31	.83	49.59	74.	00	-24.41	Horizontal
9848.00	32.67	38.62	14.31	31	.77	53.83	74.	00	-20.17	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	eamp ctor dB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	34.63	31.90	8.70	32	2.15	43.08	54.	00	-10.92	Vertical
7386.00	24.11	36.49	11.76	31	.83	40.53	54.	00	-13.47	Vertical
9848.00	24.98	38.62	14.31	31	.77	46.14	54.	00	-7.86	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.55	31.90	8.70	32	2.15	42.00	54.	00	-12.00	Horizontal
7386.00	22.58	36.49	11.76	31	.83	39.00	54.	00	-15.00	Horizontal
9848.00	21.95	38.62	14.31	31	.77	43.11	54.	00	-10.89	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

- 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:		lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor fB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4824.00	39.20	31.79	8.62	32	2.10	47.51	74.	00	-26.49	Vertical
7236.00	33.53	36.19	11.68	31	.97	49.43	74.	00	-24.57	Vertical
9648.00	32.22	38.07	14.16	31	.56	52.89	74.	00	-21.11	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.04	31.79	8.62	32	2.10	46.35	74.	00	-27.65	Horizontal
7236.00	33.37	36.19	11.68	31	.97	49.27	74.	00	-24.73	Horizontal
9648.00	31.84	38.07	14.16	31	.56	52.51	74.	00	-21.49	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)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4824.00	28.37	31.79	8.62	32	2.10	36.68	54.	00	-17.32	Vertical
7236.00	22.42	36.19	11.68	31	.97	38.32	54.	00	-15.68	Vertical
9648.00	22.59	38.07	14.16	31	.56	43.26	54.	00	-10.74	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertica
4824.00	27.64	31.79	8.62	32	2.10	35.95	54.	00	-18.05	Horizontal
7236.00	21.97	36.19	11.68	31	.97	37.87	54.	00	-16.13	Horizontal
9648.00	21.60	38.07	14.16	31	.56	42.27	54.	00	-11.73	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

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

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



Test mode:		802.11g			Test	channel:	Middle			
Peak value:		•		r						
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	38.45	31.85	8.66	32	.12	46.84	74.	00	-27.16	Vertical
7311.00	33.72	36.37	11.71	31	.91	49.89	74.	00	-24.11	Vertical
9748.00	33.33	38.27	14.25	31	.56	54.29	74.	00	-19.71	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.07	31.85	8.66	32	.12	47.46	74.	00	-26.54	Horizontal
7311.00	32.43	36.37	11.71	31	.91	48.60	74.	00	-25.40	Horizontal
9748.00	33.25	38.27	14.25	31	.56	54.21	74.	00	-19.79	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val			T	ı		1				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	29.37	31.85	8.66	32	.12	37.76	54.	00	-16.24	Vertical
7311.00	22.06	36.37	11.71	31	.91	38.23	54.	00	-15.77	Vertical
9748.00	22.60	38.27	14.25	31	.56	43.56	54.	00	-10.44	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.23	31.85	8.66	32	.12	37.62	54.	00	-16.38	Horizontal
7311.00	21.54	36.37	11.71	31	.91	37.71	54.	00	-16.29	Horizontal
9748.00	22.97	38.27	14.25	31	.56	43.93	54.	00	-10.07	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	43.33	31.90	8.70	32.15	51.78	74.00	-22.22	Vertical
7386.00	33.98	36.49	11.76	31.83	50.40	74.00	-23.60	Vertical
9848.00	36.33	38.62	14.31	31.77	57.49	74.00	-16.51	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.87	31.90	8.70	32.15	51.32	74.00	-22.68	Horizontal
7386.00	33.01	36.49	11.76	31.83	49.43	74.00	-24.57	Horizontal
9848.00	32.55	38.62	14.31	31.77	53.71	74.00	-20.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.36	31.90	8.70	32.15	42.81	54.00	-11.19	Vertical
7386.00	23.93	36.49	11.76	31.83	40.35	54.00	-13.65	Vertical
9848.00	24.86	38.62	14.31	31.77	46.02	54.00	-7.98	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.32	31.90	8.70	32.15	41.77	54.00	-12.23	Horizontal
7386.00	22.42	36.49	11.76	31.83	38.84	54.00	-15.16	Horizontal
9848.00	21.83	38.62	14.31	31.77	42.99	54.00	-11.01	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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.



Test mode:		802.11n(H	IT20)		Test	channel:		Lowe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	39.09	31.79	8.62	32	2.10	47.40	74.	00	-26.60	Vertical
7236.00	33.45	36.19	11.68	31	.97	49.35	74.	00	-24.65	Vertical
9648.00	32.17	38.07	14.16	31	.56	52.84	74.	00	-21.16	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	37.94	31.79	8.62	32	2.10	46.25	74.	00	-27.75	Horizontal
7236.00	33.30	36.19	11.68	31	.97	49.20	74.	00	-24.80	Horizontal
9648.00	31.79	38.07	14.16	31	.56	52.46	74.	00	-21.54	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)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	28.26	31.79	8.62	32	2.10	36.57	54.	00	-17.43	Vertical
7236.00	22.35	36.19	11.68	31	.97	38.25	54.	00	-15.75	Vertical
9648.00	22.54	38.07	14.16	31	.56	43.21	54.	00	-10.79	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertical
4824.00	27.54	31.79	8.62	32	2.10	35.85	54.	00	-18.15	Horizontal
7236.00	21.90	36.19	11.68	31	.97	37.80	54.	00	-16.20	Horizontal
9648.00	21.55	38.07	14.16	31	.56	42.22	54.	00	-11.78	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

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



Test mode:		802.11n(H	IT20)		Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.35	31.85	8.66	32	.12	46.74	74.	00	-27.26	Vertical
7311.00	33.66	36.37	11.71	31	.91	49.83	74.	00	-24.17	Vertical
9748.00	33.28	38.27	14.25	31	.56	54.24	74.	00	-19.76	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	38.99	31.85	8.66	32	.12	47.38	74.	00	-26.62	Horizontal
7311.00	32.38	36.37	11.71	31	.91	48.55	74.	00	-25.45	Horizontal
9748.00	33.21	38.27	14.25	31	.56	54.17	74.	00	-19.83	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val	ue:	•		1						
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	29.28	31.85	8.66	32	.12	37.67	54.	00	-16.33	Vertical
7311.00	22.00	36.37	11.71	31	.91	38.17	54.	00	-15.83	Vertical
9748.00	22.55	38.27	14.25	31	.56	43.51	54.	00	-10.49	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.15	31.85	8.66	32	.12	37.54	54.	00	-16.46	Horizontal
7311.00	21.48	36.37	11.71	31	.91	37.65	54.	00	-16.35	Horizontal
9748.00	22.94	38.27	14.25	31	.56	43.90	54.	00	-10.10	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

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

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



Test mode:		802.11n(H	IT20)		Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	43.16	31.90	8.70	32	2.15	51.61	74.	00	-22.39	4924.00
7386.00	33.88	36.49	11.76	31	.83	50.30	74.	00	-23.70	7386.00
9848.00	36.25	38.62	14.31	31	.77	57.41	74.	00	-16.59	9848.00
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	42.73	31.90	8.70	32	2.15	51.18	74.	00	-22.82	Horizontal
7386.00	32.91	36.49	11.76	31	.83	49.33	74.	00	-24.67	Horizontal
9848.00	32.48	38.62	14.31	31	.77	53.64	74.	00	-20.36	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)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	34.21	31.90	8.70	32	2.15	42.66	54.	00	-11.34	Vertical
7386.00	23.83	36.49	11.76	31	.83	40.25	54.	00	-13.75	Vertical
9848.00	24.78	38.62	14.31	31	.77	45.94	54.	00	-8.06	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	33.19	31.90	8.70	32	2.15	41.64	54.	00	-12.36	Horizontal
7386.00	22.33	36.49	11.76	31	.83	38.75	54.	00	-15.25	Horizontal
9848.00	21.77	38.62	14.31	31	.77	42.93	54.	00	-11.07	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	802.11n(HT40)			Test channel:			st		
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	
4844.00	37.85	31.81	8.63	32.11		46.18	74.00		-27.82	Vertical	
7266.00	32.68	36.28	11.69	31.94		48.71	74.00		-25.29	Vertical	
9688.00	31.61	38.13	14.21	31.52		52.43	74.00		-21.57	Vertical	
12060.00	*						74.00			Vertical	
14472.00	*						74.	00		Vertical	
16884.00	*						74.	00		Vertical	
4844.00	36.90	31.81	8.63	32.11		45.23	74.00		-28.77	Horizontal	
7266.00	32.62	36.28	11.69	31.94		48.65	74.00		-25.35	Horizontal	
9688.00	31.27	38.13	14.21	31.52		52.09	52.09 74.00		-21.91	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	27.13	31.81	8.63	32.11	35.46	54.00	-18.54	Vertical
7266.00	21.60	36.28	11.69	31.94	37.63	54.00	-16.37	Vertical
9688.00	22.00	38.13	14.21	31.52	42.82	54.00	-11.18	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.57	31.81	8.63	32.11	34.90	54.00	-19.10	Horizontal
7266.00	21.24	36.28	11.69	31.94	37.27	54.00	-16.73	Horizontal
9688.00	21.06	38.13	14.21	31.52	41.88	54.00	-12.12	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*			_	_	54.00		Horizontal
16884.00	*					54.00		Horizontal

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

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



Test mode:		802.11n(H	IT40)		Test channel:		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	37.33	31.85	8.66	32.12		45.72	74.00		-28.28	Vertical
7311.00	33.01	36.37	11.71	31.91		49.18	74.00		-24.82	Vertical
9748.00	32.82	38.27	14.25	31.56		53.78	74.00		-20.22	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.12	31.85	8.66	32.	.12	46.51	74.00		-27.49	Horizontal
7311.00	31.81	36.37	11.71	31.	.91	47.98	74.00		-26.02	Horizontal
9748.00	32.78	38.27	14.25	31.56		53.74	74.00		-20.26	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 (dBu		Over Limit (dB)	polarization
4874.00	28.34	31.85	8.66	32.	.12	36.73	54.00		-17.27	Vertical
7311.00	21.37	36.37	11.71	31.	.91	37.54	54.00		-16.46	Vertical
9748.00	22.11	38.27	14.25	31.	.56	43.07	54.00		-10.93	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	28.34	31.85	8.66	32.12		36.73	54.00		-17.27	Horizontal
7311.00	20.94	36.37	11.71	31.91		37.11	54.00		-16.89	Horizontal
9748.00	22.53	38.27	14.25	31.	.56	43.49	54.	00	-10.51	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

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

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



Test mode:		802.11n(HT40)			Test channel:			Highest		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)			Line V/m)	Over Limit (dB)	polarization
4904.00	41.40	31.88	8.68	32.13		49.83	74.00		-24.17	Vertical
7356.00	32.76	36.45	11.75	31	.86	49.10	74.00		-24.90	Vertical
9808.00	35.46	38.43	14.29	31	.68	56.50	74.00		-17.50	Vertical
12310.00	*						74.00			Vertical
14772.00	*						74.00			Vertical
17234.00	*						74.00			Vertical
4904.00	41.25	31.88	8.68	32	2.13	49.68	74.00		-24.32	Horizontal
7356.00	31.94	36.45	11.75	31	.86	48.28	74.00		-25.72	Horizontal
9808.00	31.75	38.43	14.29	31.68		52.79	74.00		-21.21	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)	Fa	amp ctor (B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4904.00	32.59	31.88	8.68	32	2.13	41.02	54.00		-12.98	Vertical
7356.00	22.76	36.45	11.75	31	.86	39.10	54.00		-14.90	Vertical
9808.00	24.02	38.43	14.29	31	.68	45.06	54.00		-8.94	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4904.00	31.79	31.88	8.68	32.13		40.22	54.00		-13.78	Horizontal
7356.00	21.39	36.45	11.75	31.86		37.73	54.00		-16.27	Horizontal
9808.00	21.06	38.43	14.29	31.68		42.10	54.00		-11.90	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

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

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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