

Global United Technology Services Co., Ltd.

Report No.: GTS201609000018E01

FCC Report (WIFI)

Applicant: Trane US, Inc.

Address of Applicant: 6200 Troup Highway Tyler TX 75707

Equipment Under Test (EUT)

Product Name: COLOR WIFI Z-WAVE THERMOSTAT

Model No.: AZON1050AC52ZAA, TZON1050AC52ZAA

FCC ID: XVRZON1050

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

Date of sample receipt: September 14, 2016

Date of Test: September 14-20, 2016

Date of report issued: September 20, 2016

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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



2 Version

Version No.	Date	Description
00	September 20, 2016	Original

Prepared By:	Project Engineer	Date:	September 20, 2016	
Check By:	Andy un	Date:	September 20, 2016	

Reviewer

1

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3 Contents

			Page
1	COV	ER PAGE	1
_	\/=0	2/2/	
2	VER	SION	2
3	CON	TENTS	3
4	TEQ.	T SUMMARY	,
•			
5	GEN	ERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	5
	5.3	TEST MODE	6
	5.4	DESCRIPTION OF SUPPORT UNITS	6
	5.5	TEST FACILITY	7
	5.6	TEST LOCATION	7
6	TEST	T INSTRUMENTS LIST	8
7	TES	T RESULTS AND MEASUREMENT DATA	10
	7.1	ANTENNA REQUIREMENT	10
	7.2	CONDUCTED EMISSIONS	
	7.3	CONDUCTED PEAK OUTPUT POWER	
	7.4	CHANNEL BANDWIDTH	
	7.5	POWER SPECTRAL DENSITY	
	7.6	BAND EDGES	
	7.6.1		
	7.6.2		
	7.7	Spurious Emission	
	7.7.1		
	7.7.2	Radiated Emission Method	38
8	TEST	T SETUP PHOTO	53
۵	EUT	CONSTRUCTIONAL DETAILS	5.5



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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

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



5 General Information

5.1 Client Information

Applicant:	Trane US, Inc.
Address of Applicant:	6200 Troup Highway Tyler TX 75707
Manufacturer:	Computime Limited
Address of Manufacturer	9/F, Tower One, Lippo Centre, 89 Queensway, Hong Kong
Factory:	Computime Electronics (shenzhen) Company Limited
Address of Factory:	Yuekenguangyu Industrial Park, Kangqiao Road 88#, Danzhutou Community, Nanwan Street Office Longgang District, Shenzhen, China

5.2 General Description of EUT

Product Name:	COLOR WIFI Z-WAVE THERMOSTAT	
Model No.:	AZON1050AC52ZAA, TZON1050AC52ZAA	
Test Model No. :	AZON1050AC52ZAA	
	identical in the same PCB layout, interior structure and electrical erence is the model name for commercial purpose.	
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	
	802.11n(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:	0dBi(declare by Applicant)	
Power supply:	AC 24V	



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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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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	802.11g	802.11n(HT20)	802.11n(HT40)	
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps	

5.4 Description of Support Units

None.



5.5 Test Facility

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

• 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 22, 2016.

• 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, August 15, 2016.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



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	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017		
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017		
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017		
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017		
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017		

Con	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 16 2014	May 15 2019				
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 29 2016	June 28 2017				
3	Pulse Limiter	R&S	ESH3-Z2	GTS224	June 29 2016	June 28 2017				
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017				
5	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 29 2016	June 28 2017				
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017				
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				
8	Thermo meter	KTJ	TA328	GTS233	June 29 2016	June 28 2017				



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	June 29 2016	June 28 2017				



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

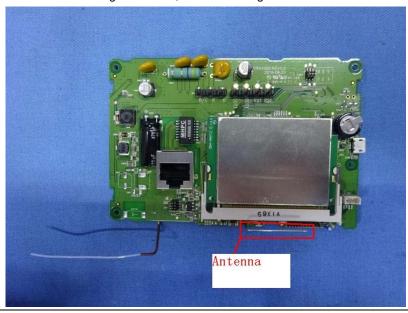
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 0dBi





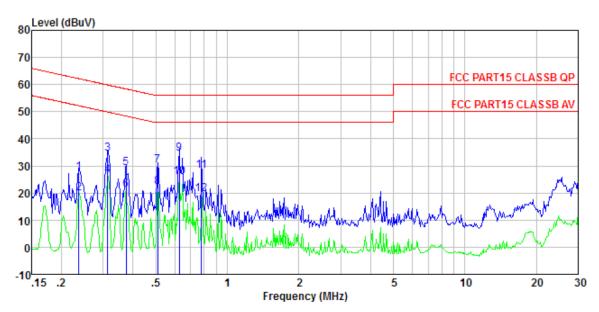
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	Fragues av range (MIIII)	Limit (d	dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane					
To the second second	Filter — AC pow					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 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 photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed 					
Test Instruments:	according to ANSI C63.10:2013 on conducted measurement. Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data

Line:



Site

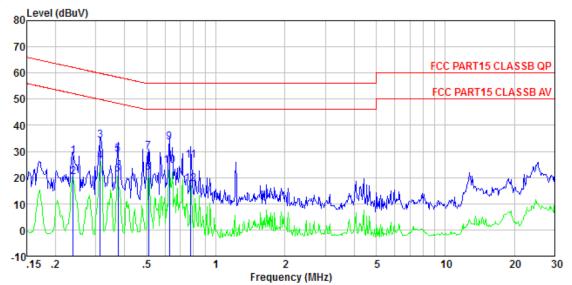
: Shielded room : FCC PART15 CLASSB QP LISN-2013 LINE Condition

Job No. Test Mode : 018 : WiFi mode Test Engineer: Boy

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu√	dB	dB	dBuV	dBu√	dB	
1 2 3	0. 237 0. 237 0. 313	27.35 19.58 34.36	0.12 0.12 0.11	0.12 0.12 0.10	27.59 19.82 34.57	52.22	-34.63 -32.40 -25.31	Average
4 5	0.313 0.375	26. 23 28. 95	0.11 0.11	0.10 0.10	26.44 29.16	49.88 58.39	-23.44 -29.23	Average QP
6 7 8	0.375 0.510 0.510	21.07 30.08 22.13	0.11 0.12 0.12	0.10 0.11 0.11	21. 28 30. 31 22. 36	56.00	-25.69	Average QP Average
8 9 10 11	0.627 0.627	34.15 25.50	0.13 0.13	0.12 0.12	34. 40 25. 75 28. 27	56.00 46.00	-21.60 -20.25	QP Average
12	0.779 0.779	28.00 19.15	0.14 0.14	0.13 0.13	19.42		-27. 73 -26. 58	Wr Average



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 018

Test Mode : WiFi mode

Test Engineer: Boy

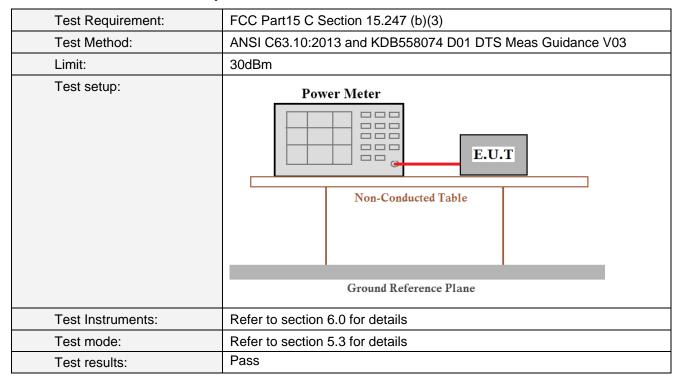
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.239	28.06	0.06	0.12	28. 24		-33.89	
2	0. 239	20.13	0.06	0.12	20.31	52.13	-31.82	Average
3	0.313	34.07	0.06	0.10	34. 23	59.88	-25.65	QP
4	0.313	25.94	0.06	0.10	26.10	49.88	-23.78	Average
5	0.375	28.76	0.06	0.10	28.92	58.39	-29.47	QP
6	0.375	20.91	0.06	0.10	21.07			Average
7	0.510	29.60	0.06	0.11	29.77		-26.23	_
8	0.510	21.66	0.06	0.11	21.83	46.00	-24.17	Average
9	0.627	33.21	0.07	0.12	33.40	56.00	-22.60	QP
10	0.627	24.51	0.07	0.12	24.70			Average
11	0.779	26.34	0.07	0.13	26.54		-29.46	
12	0.779	17.30	0.07	0.13	17.50			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



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)	Limit(abin)	Nesuit
Lowest	11.43	11.56	5.46	5.53		Pass
Middle	11.12	10.95	5.59	5.16	30.00	
Highest	10.84	10.57	5.53	5.30		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10:2013 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			

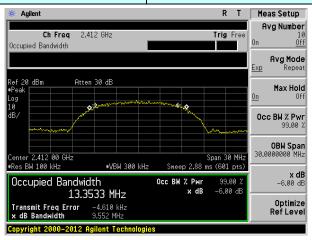
Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI IZ)	Nesuit
Lowest	9.552	16.580	17.844	37.691		Pass
Middle	9.553	16.585	17.840	37.796	>500	
Highest	9.549	16.563	17.838	37.801		

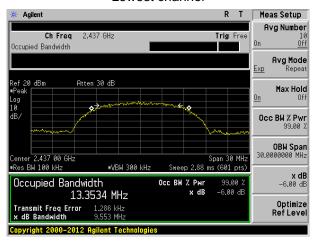
Test plot as follows:



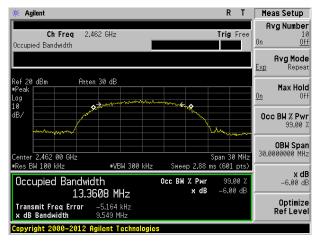
Test mode: 802.11b



Lowest channel



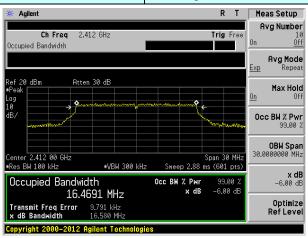
Middle channel



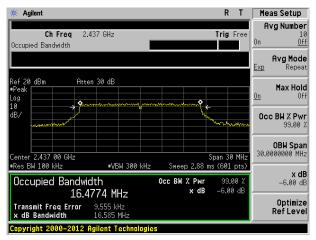
Highest channel



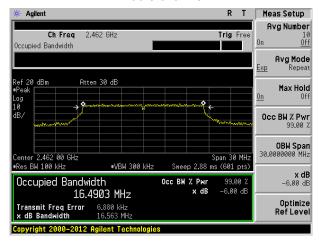
Test mode: 802.11g



Lowest channel



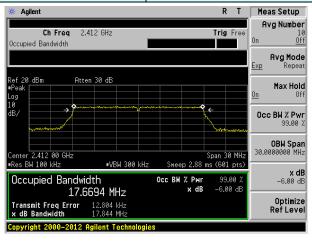
Middle channel



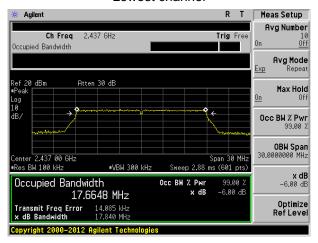
Highest channel



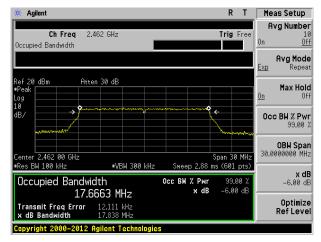
Test mode: 802.11n(HT20)



Lowest channel



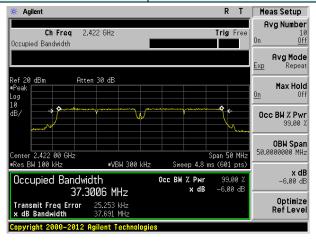
Middle channel



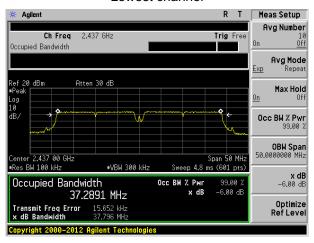
Highest channel



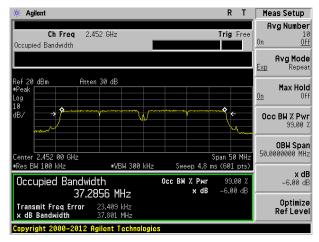
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm/3KHz		
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		

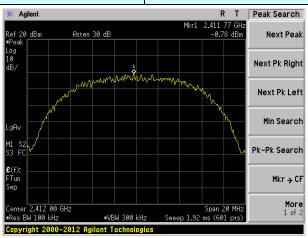
Measurement Data

Test CH		Power Spe	Limit	Result		
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-0.78	-4.66	-11.78	-15.08		Pass
Middle	-0.54	-5.14	-12.11	-14.90	8.00	
Highest	-0.75	-5.39	-12.20	-14.60		

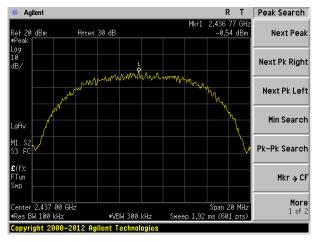


Test plot as follows:

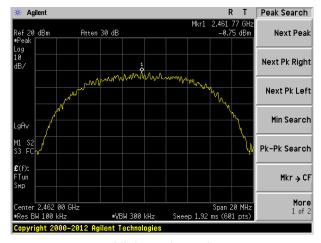
Test mode: 802.11b



Lowest channel



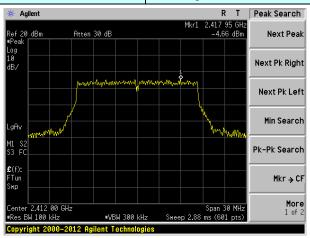
Middle channel



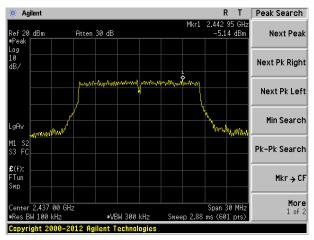
Highest channel



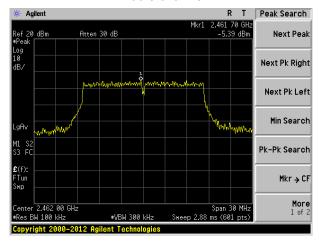
Test mode: 802.11g



Lowest channel



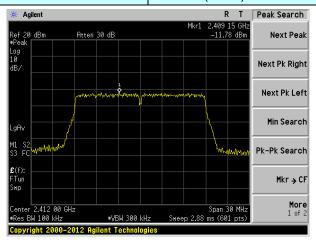
Middle channel



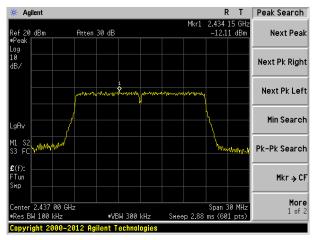
Highest channel



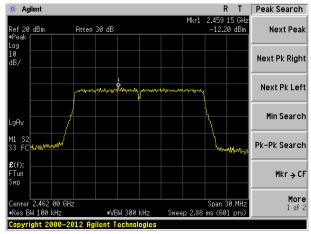
Test mode: 802.11n(HT20)



Lowest channel



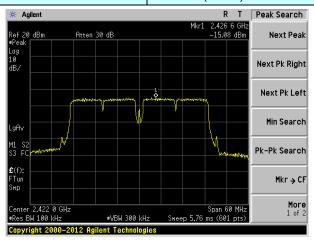
Middle channel



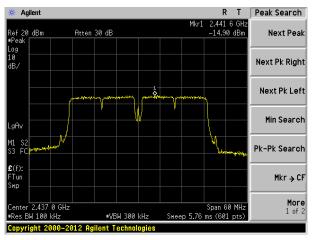
Highest channel



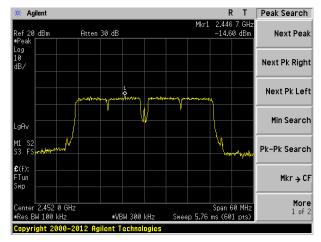
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



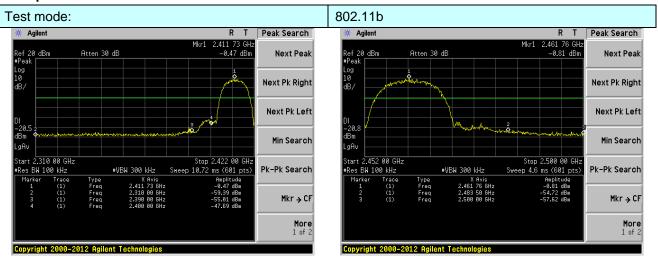
7.6 Band edges

7.6.1 Conducted Emission Method

Took Dogwing month	FCC Double C Continue 45 047 (d)				
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

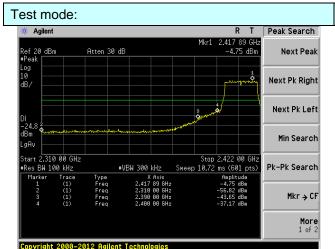


Test plot as follows:



Lowest channel

Highest channel

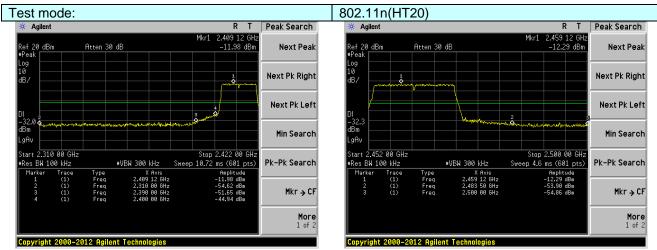


Lowest channel



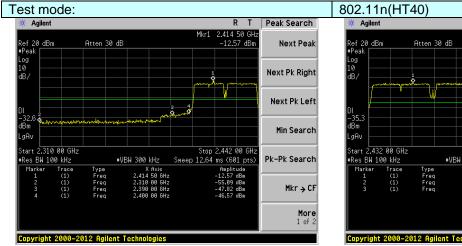
Highest channel



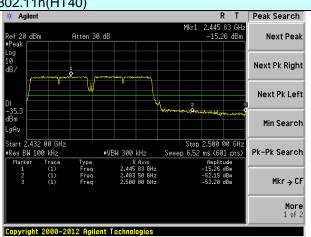


Lowest channel

Highest channel



Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.10:2013							
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to						
	2500MHz) data	2500MHz) data was showed.						
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above Toriz	RMS	1MHz	3MHz	Average			
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Value			
	Above 1	CH ₇	54.0		Average			
	Above	GHZ	74.0	0	Peak			
Test setup:	AE (To	Ground Reference Plane Test Receiver Test Receiver Test Receiver Test Receiver Test Receiver						
	determine th 2. The EUT wa antenna, whi tower. 3. The antenna ground to de horizontal an measuremer 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 whave 10dB m peak or aver sheet.	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data 						
		node is record		ort.				
Test Instruments:	Refer to section							
Test mode:	Refer to section	5.3 for details	3					
Test results:	Pass	Pass						

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Measurement data:

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

Test mode:	st mode: 802.11b			Test channel:			Lowest		
Peak value:	•								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line	l Limit	Polarization
2390.00	51.50	27.59	5.38	34.0	1	50.46	74.00	-23.54	Horizontal
2400.00	60.46	27.58	5.39	34.0	1	59.42	74.00	-14.58	Horizontal
2390.00	53.17	27.59	5.38	34.0	1	52.13	74.00	-21.87	Vertical
2400.00	62.21	27.58	5.39	34.0	1	61.17	74.00	-12.83	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
2390.00	38.30	27.59	5.38	34.0	1	37.26	54.00	-16.74	Horizontal
2400.00	46.58	27.58	5.39	34.0	1	45.54	54.00	-8.46	Horizontal
2390.00	40.11	27.59	5.38	34.0	1	39.07	54.00	-14.93	Vertical
2400.00	47.69	27.58	5.39	34.0	1	46.65	54.00	-7.35	Vertical
Test mode:		802.1	1b		Tes	st channel:		Highest	

Test mode: 802.11b	Test channel:	Highest
--------------------	---------------	---------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.09	27.53	5.47	33.92	51.17	74.00	-22.83	Horizontal
2500.00	47.96	27.55	5.49	29.93	51.07	74.00	-22.93	Horizontal
2483.50	54.32	27.53	5.47	33.92	53.40	74.00	-20.60	Vertical
2500.00	50.45	27.55	5.49	29.93	53.56	74.00	-20.44	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.64	27.53	5.47	33.92	37.72	54.00	-16.28	Horizontal
2500.00	34.77	27.55	5.49	29.93	37.88	54.00	-16.12	Horizontal
2483.50	40.58	27.53	5.47	33.92	39.66	54.00	-14.34	Vertical
2500.00	36.65	27.55	5.49	29.93	39.76	54.00	-14.24	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.



Test mode:		802.1	1g Tes		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)	Over Limit (dB)	Polarization
2390.00	50.21	27.59	5.38	34.01	49.17	74.00	-24.83	Horizontal
2400.00	58.74	27.58	5.39	34.01	57.70	74.00	-16.30	Horizontal
2390.00	51.79	27.59	5.38	34.01	50.75	74.00	-23.25	Vertical
2400.00	60.15	27.58	5.39	34.01	59.11	74.00	-14.89	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.39	27.59	5.38	34.01	36.35	54.00	-17.65	Horizontal
2400.00	45.53	27.58	5.39	34.01	44.49	54.00	-9.51	Horizontal
2390.00	39.09	27.59	5.38	34.01	38.05	54.00	-15.95	Vertical
2400.00	46.54	27.58	5.39	34.01	45.50	54.00	-8.50	Vertical
Test mode:		802.1	1g	Tes	st channel:	I	Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.25	27.53	5.47	33.92	49.33	74.00	-24.67	Horizontal
2500.00	46.54	27.55	5.49	29.93	49.65	74.00	-24.35	Horizontal
2483.50	52.22	27.53	5.47	33.92	51.30	74.00	-22.70	Vertical
2500.00	48.78	27.55	5.49	29.93	51.89	74.00	-22.11	Vertical
Average va	lue:	.		ı	1		Т	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.53	27.53	5.47	33.92	36.61	54.00	-17.39	Horizontal
2500.00	33.91	27.55	5.49	29.93	37.02	54.00	-16.98	Horizontal
2483.50	39.35	27.53	5.47	33.92	38.43	54.00	-15.57	Vertical

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

Report No.: GTS201609000018E01

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	50.49	27.59	5.38	34.01	49.45	74.00	-24.55	Horizontal
2400.00	59.11	27.58	5.39	34.01	58.07	74.00	-15.93	Horizontal
2390.00	52.09	27.59	5.38	34.01	51.05	74.00	-22.95	Vertical
2400.00	60.59	27.58	5.39	34.01	59.55	74.00	-14.45	Vertical
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.58	27.59	5.38	34.01	36.54	54.00	-17.46	Horizontal
2400.00	45.75	27.58	5.39	34.01	44.71	54.00	-9.29	Horizontal
2390.00	39.31	27.59	5.38	34.01	38.27	54.00	-15.73	Vertical
2400.00	46.79	27.58	5.39	34.01	45.75	54.00	-8.25	Vertical
Test mode:		802.1	1n(HT20)	Te	st 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	50.64	27.53	5.47	33.92	49.72	74.00	-24.28	Horizontal
2500.00	46.84	27.55	5.49	29.93	49.95	74.00	-24.05	Horizontal
2483.50	52.66	27.53	5.47	33.92	51.74	74.00	-22.26	Vertical
2500.00	49.13	27.55	5.49	29.93	52.24	74.00	-21.76	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.77	27.53	5.47	33.92	36.85	54.00	-17.15	Horizontal
2500.00	34.09	27.55	5.49	29.93	37.20	54.00	-16.80	Horizontal
2483.50	39.61	27.53	5.47	33.92	38.69	54.00	-15.31	Vertical
2500.00	35.93	27.55	5.49	29.93	39.04	54.00	-14.96	Vertical
Remark:								

Test channel:

802.11n(HT20)

Remark.

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

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



Test mode:

Report No.: GTS201609000018E01

Lowest

i est illoue.		002.1	111(11140)	10	St Charline.		LOWEST	
Peak value	•			·		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.57	27.59	5.38	34.01	48.53	74.00	-25.47	Horizontal
2400.00	57.88	27.58	5.39	34.01	56.84	74.00	-17.16	Horizontal
2390.00	51.10	27.59	5.38	34.01	50.06	74.00	-23.94	Vertical
2400.00	59.12	27.58	5.39	34.01	58.08	74.00	-15.92	Vertical
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.93	27.59	5.38	34.01	35.89	54.00	-18.11	Horizontal
2400.00	45.00	27.58	5.39	34.01	43.96	54.00	-10.04	Horizontal
2390.00	38.58	27.59	5.38	34.01	37.54	54.00	-16.46	Vertical
2400.00	45.96	27.58	5.39	34.01	44.92	54.00	-9.08	Vertical
Test mode:		802.1	1n(HT40)	Test channel:		1		
Peak value		_						_
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.33	27.53	5.47	33.92	48.41	74.00	-25.59	Horizontal
2500.00	45.82	27.55	5.49	29.93	48.93	74.00	-25.07	Horizontal
2483.50	51.16	27.53	5.47	33.92	50.24	74.00	-23.76	Vertical
2500.00	47.94	27.55	5.49	29.93	51.05	74.00	-22.95	Vertical
Average va	lue:	•		1	1	7	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	36.98	27.53	5.47	33.92	36.06	54.00	-17.94	Horizontal
2500.00	33.48	27.55	5.49	29.93	36.59	54.00	-17.41	Horizontal
2483.50	38.74	27.53	5.47	33.92	37.82	54.00	-16.18	Vertical
2500.00	35.28	27.55	5.49	29.93	38.39	54.00	-15.61	Vertical
Remark:								

Test channel:

802.11n(HT40)

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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

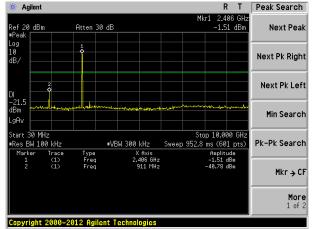


Test plot as follows:

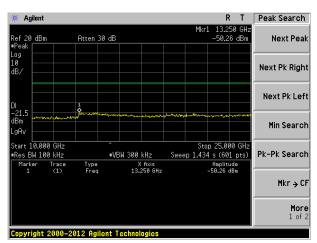
Test mode:

802.11b

Lowest channel

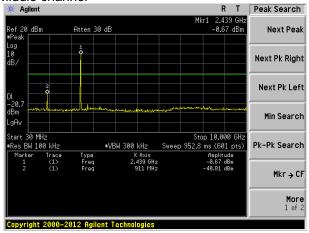


30MHz~10GHz

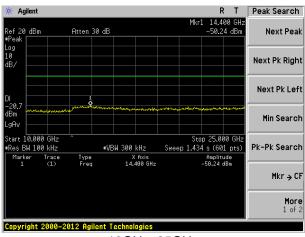


10GHz~25GHz

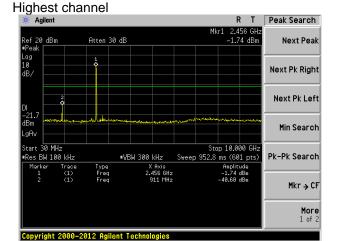
Middle channel



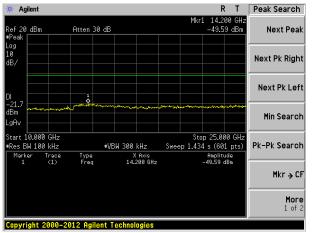
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



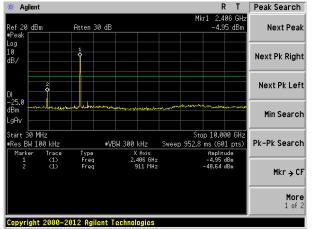
10GHz~25GHz



Test mode:

802.11g

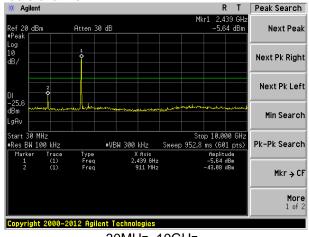
Lowest channel



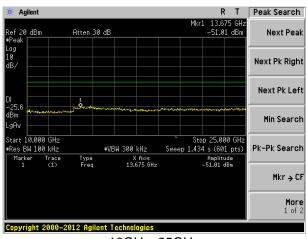
30MHz~10GHz

10GHz~25GHz

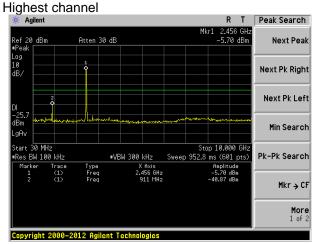
Middle channel



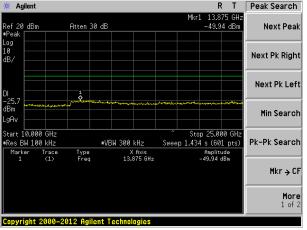
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

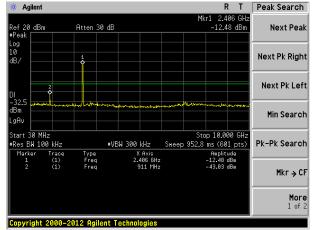


More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel

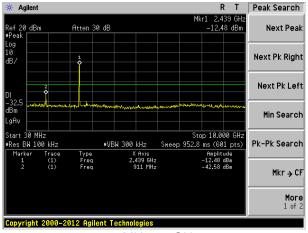


30MHz~10GHz

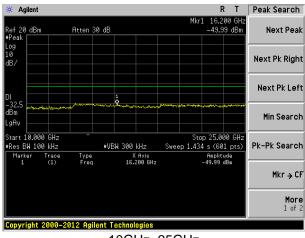
10GHz~25GHz

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Middle channel

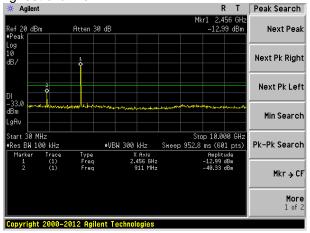


30MHz~10GHz

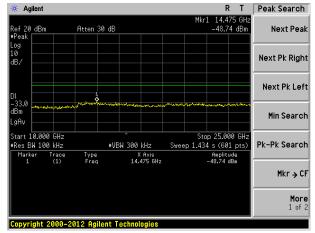


10GHz~25GHz





30MHz~10GHz



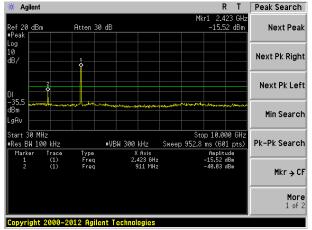
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

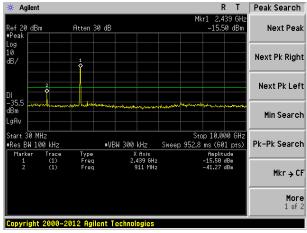


30MHz~10GHz

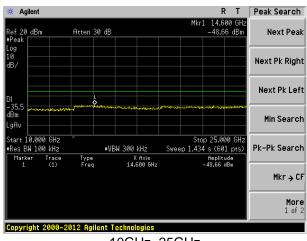
R T Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 14.350 GHz Amplitude -48.35 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

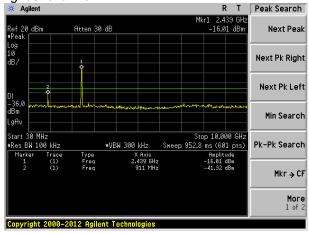


30MHz~10GHz

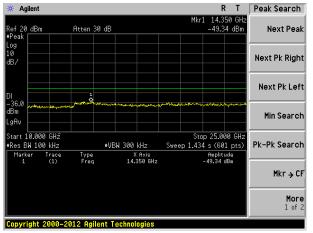


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

FCC Part15 C Se	ection 15.209)							
ANSI C63.10:2013									
30MHz to 25GHz									
Measurement Dis	Measurement Distance: 3m								
Frequency	Frequency Detector RBW VBW Value								
30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak								
Above 1CHz	Peak 1MHz 3MHz Peak								
Above IGHZ	RMS	1MHz	3MHz	Average					
Frequen	псу	Limit (dBuV/	m @3m)	Value					
30MHz-88	MHz	40.0	0	Quasi-peak					
88MHz-216	6MHz	43.5	0	Quasi-peak					
216MHz-96	60MHz	46.0	0	Quasi-peak					
960MHz-1	GHz	54.0	0	Quasi-peak					
Above 10	2H7	54.0	0	Average					
Above is	J1 12	74.0	0	Peak					
Below 1GHz Antenna Tower Test Receiver Amplifier Controller									
	ANSI C63.10:207 30MHz to 25GHz Measurement Dis Frequency 30MHz-1GHz Above 1GHz Frequer 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 10	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency 30MHz-1GHz Above 1GHz Peak RMS Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Below 1GHz	Measurement Distance: 3m Frequency Detector RBW 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz RMS 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Below 1GHz Below 1GHz Test Receiver Annual Control of the Control of th	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 54.00 Below 1GHz Below 1GHz					



	Horn Antenna Tower Ground Reference Plane Test Receiver Amplifier Controller
Test Procedure:	The EUT was placed on the top of a rotating table(0.8 meters below 1G and 1.5 meters above 1G) 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 2 meters away from the interference receiving.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
34.76	47.61	14.30	0.61	30.07	32.45	40.00	-7.55	Vertical
53.32	49.86	15.10	0.80	29.97	35.79	40.00	-4.21	Vertical
104.90	51.36	14.68	1.23	29.67	37.60	43.50	-5.90	Vertical
109.41	54.00	14.30	1.28	29.64	39.94	43.50	-3.56	Vertical
193.10	50.21	12.56	1.81	29.22	35.36	43.50	-8.14	Vertical
264.75	44.96	14.22	2.19	29.75	31.62	46.00	-14.38	Vertical
83.23	45.04	11.72	1.06	29.78	28.04	40.00	-11.96	Horizontal
109.41	52.19	14.30	1.28	29.64	38.13	43.50	-5.37	Horizontal
112.13	53.52	13.83	1.30	29.62	39.03	43.50	-4.47	Horizontal
191.07	54.16	12.56	1.80	29.23	39.29	43.50	-4.21	Horizontal
210.79	52.51	12.90	1.90	29.30	38.01	43.50	-5.49	Horizontal
307.83	46.40	15.17	2.40	29.95	34.02	46.00	-11.98	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	L	_owest	
Peak value:					_	,	_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Li (dBuV/	I I imit	polarization
4824.00	40.63	31.79	8.62	32.10	48.94	74.00	-25.06	Vertical
7236.00	34.43	36.19	11.68	31.97	50.33	74.00	-23.67	Vertical
9648.00	32.87	38.07	14.16	31.56	53.54	74.00	-20.46	Vertical
12060.00	*					74.00)	Vertical
14472.00	*					74.00)	Vertical
16884.00	*					74.00)	Vertical
4824.00	39.25	31.79	8.62	32.10	47.56	74.00	-26.44	Horizontal
7236.00	34.16	36.19	11.68	31.97	50.06	74.00	-23.94	Horizontal
9648.00	32.43	38.07	14.16	31.56	53.10	74.00	-20.90	Horizontal
12060.00	*					74.00)	Horizontal
14472.00	*					74.00)	Horizontal
16884.00	*					74.00)	Horizontal
Average val							<u> </u>	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Li (dBuV/	I I imit	polarization
4824.00	29.69	31.79	8.62	32.10	38.00	54.00	-16.00	Vertical
7236.00	23.29	36.19	11.68	31.97	39.19	54.00	-14.81	Vertical
9648.00	23.21	38.07	14.16	31.56	43.88	54.00	-10.12	Vertical
12060.00	*					54.00)	Vertical
14472.00	*					54.00)	Vertical
16884.00	*					54.00)	Vertical
4824.00	28.77	31.79	8.62	32.10	37.08	54.00	-16.92	Horizontal
7236.00	22.73	36.19	11.68	31.97	38.63	54.00	-15.37	Horizontal
9648.00	22.18	38.07	14.16	31.56	42.85	54.00	-11.15	Horizontal
12060.00	*					54.00)	Horizontal
14472.00	*					54.00)	Horizontal

Remark:

16884.00

Project No.: GTS201609000018

Horizontal

54.00

^{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		T	est ch	nannel:	Midd	le	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.63	31.85	8.66	32.12	2	48.02	74.00	-25.98	Vertical
7311.00	34.47	36.37	11.71	31.91	1	50.64	74.00	-23.36	Vertical
9748.00	33.86	38.27	14.25	31.56	ĵ .	54.82	74.00	-19.18	Vertical
12185.00	*						74.00		Vertical
14622.00	*						74.00		Vertical
17059.00	*						74.00		Vertical
4874.00	40.07	31.85	8.66	32.12	2	48.46	74.00	-25.54	Horizontal
7311.00	33.09	36.37	11.71	31.91	1	49.26	74.00	-24.74	Horizontal
9748.00	33.74	38.27	14.25	31.56	6	54.70	74.00	-19.30	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)	Pream Facto (dB)	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.46	31.85	8.66	32.12	2	38.85	54.00	-15.15	Vertical
7311.00	22.78	36.37	11.71	31.91	1	38.95	54.00	-15.05	Vertical
9748.00	23.11	38.27	14.25	31.56	6	44.07	54.00	-9.93	Vertical
12185.00	*						54.00		Vertical
14622.00	*						54.00		Vertical
17059.00	*						54.00		Vertical
4874.00	30.16	31.85	8.66	32.12	2	38.55	54.00	-15.45	Horizontal
7311.00	22.17	36.37	11.71	31.91	1	38.34	54.00	-15.66	Horizontal
9748.00	23.45	38.27	14.25	31.56	6	44.41	54.00	-9.59	Horizontal
12185.00	*						54.00		Horizontal
14622.00	*	_					54.00		Horizontal
17059.00	*						54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.37	31.90	8.70	32.15	53.82	74.00	-20.18	Vertical
7386.00	35.27	36.49	11.76	31.83	51.69	74.00	-22.31	Vertical
9848.00	37.25	38.62	14.31	31.77	58.41	74.00	-15.59	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.59	31.90	8.70	32.15	53.04	74.00	-20.96	Horizontal
7386.00	34.13	36.49	11.76	31.83	50.55	74.00	-23.45	Horizontal
9848.00	33.40	38.62	14.31	31.77	54.56	74.00	-19.44	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.24	31.90	8.70	32.15	44.69	54.00	-9.31	Vertical
7386.00	25.18	36.49	11.76	31.83	41.60	54.00	-12.40	Vertical
9848.00	25.74	38.62	14.31	31.77	46.90	54.00	-7.10	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.93	31.90	8.70	32.15	43.38	54.00	-10.62	Horizontal
7386.00	23.52	36.49	11.76	31.83	39.94	54.00	-14.06	Horizontal
9848.00	22.65	38.62	14.31	31.77	43.81	54.00	-10.19	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		Test	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	39.36	31.79	8.62	32.10	47.67	74.00	-26.33	Vertical
7236.00	33.63	36.19	11.68	31.97	49.53	74.00	-24.47	Vertical
9648.00	32.29	38.07	14.16	31.56	52.96	74.00	-21.04	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.18	31.79	8.62	32.10	46.49	74.00	-27.51	Horizontal
7236.00	33.45	36.19	11.68	31.97	49.35	74.00	-24.65	Horizontal
9648.00	31.90	38.07	14.16	31.56	52.57	74.00	-21.43	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	28.52	31.79	8.62	32.10	36.83	54.00	-17.17	Vertical
7236.00	22.52	36.19	11.68	31.97	38.42	54.00	-15.58	Vertical
9648.00	22.66	38.07	14.16	31.56	43.33	54.00	-10.67	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	27.76	31.79	8.62	32.10	36.07	54.00	-17.93	Horizontal
7236.00	22.05	36.19	11.68	31.97	37.95	54.00	-16.05	Horizontal
9648.00	21.67	38.07	14.16	31.56	42.34	54.00	-11.66	Horizontal
12060.00	*	_				54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		Tes	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.58	31.85	8.66	32.12	46.97	74.00	-27.03	Vertical
7311.00	33.80	36.37	11.71	31.91	49.97	74.00	-24.03	Vertical
9748.00	33.38	38.27	14.25	31.56	54.34	74.00	-19.66	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.18	31.85	8.66	32.12	47.57	74.00	-26.43	Horizontal
7311.00	32.50	36.37	11.71	31.91	48.67	74.00	-25.33	Horizontal
9748.00	33.30	38.27	14.25	31.56	54.26	74.00	-19.74	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.49	31.85	8.66	32.12	37.88	54.00	-16.12	Vertical
7311.00	22.13	36.37	11.71	31.91	38.30	54.00	-15.70	Vertical
9748.00	22.65	38.27	14.25	31.56	43.61	54.00	-10.39	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.33	31.85	8.66	32.12	37.72	54.00	-16.28	Horizontal
7311.00	21.60	36.37	11.71	31.91	37.77	54.00	-16.23	Horizontal
9748.00	23.03	38.27	14.25	31.56	43.99	54.00	-10.01	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.55	31.90	8.70	32.15	52.00	74.00	-22.00	Vertical
7386.00	34.12	36.49	11.76	31.83	50.54	74.00	-23.46	Vertical
9848.00	36.43	38.62	14.31	31.77	57.59	74.00	-16.41	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.06	31.90	8.70	32.15	51.51	74.00	-22.49	Horizontal
7386.00	33.13	36.49	11.76	31.83	49.55	74.00	-24.45	Horizontal
9848.00	32.64	38.62	14.31	31.77	53.80	74.00	-20.20	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	34.57	31.90	8.70	32.15	43.02	54.00	-10.98	Vertical
7386.00	24.07	36.49	11.76	31.83	40.49	54.00	-13.51	Vertical
9848.00	24.95	38.62	14.31	31.77	46.11	54.00	-7.89	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.50	31.90	8.70	32.15	41.95	54.00	-12.05	Horizontal
7386.00	22.54	36.49	11.76	31.83	38.96	54.00	-15.04	Horizontal
9848.00	21.92	38.62	14.31	31.77	43.08	54.00	-10.92	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	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.83	31.79	8.62	32.10	48.14	74.00	-25.86	Vertical
7236.00	33.93	36.19	11.68	31.97	49.83	74.00	-24.17	Vertical
9648.00	32.51	38.07	14.16	31.56	53.18	74.00	-20.82	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.57	31.79	8.62	32.10	46.88	74.00	-27.12	Horizontal
7236.00	33.71	36.19	11.68	31.97	49.61	74.00	-24.39	Horizontal
9648.00	32.10	38.07	14.16	31.56	52.77	74.00	-21.23	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	28.95	31.79	8.62	32.10	37.26	54.00	-16.74	Vertical
7236.00	22.80	36.19	11.68	31.97	38.70	54.00	-15.30	Vertical
9648.00	22.86	38.07	14.16	31.56	43.53	54.00	-10.47	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.14	31.79	8.62	32.10	36.45	54.00	-17.55	Horizontal
7236.00	22.30	36.19	11.68	31.97	38.20	54.00	-15.80	Horizontal
9648.00	21.85	38.07	14.16	31.56	42.52	54.00	-11.48	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.97	31.85	8.66	32.12	47.36	74.00	-26.64	Vertical
7311.00	34.05	36.37	11.71	31.91	50.22	74.00	-23.78	Vertical
9748.00	33.56	38.27	14.25	31.56	54.52	74.00	-19.48	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.51	31.85	8.66	32.12	47.90	74.00	-26.10	Horizontal
7311.00	32.72	36.37	11.71	31.91	48.89	74.00	-25.11	Horizontal
9748.00	33.46	38.27	14.25	31.56	54.42	74.00	-19.58	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:		•	•			•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.85	31.85	8.66	32.12	38.24	54.00	-15.76	Vertical
7311.00	22.37	36.37	11.71	31.91	38.54	54.00	-15.46	Vertical
9748.00	22.82	38.27	14.25	31.56	43.78	54.00	-10.22	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.64	31.85	8.66	32.12	38.03	54.00	-15.97	Horizontal
7311.00	21.81	36.37	11.71	31.91	37.98	54.00	-16.02	Horizontal
9748.00	23.18	38.27	14.25	31.56	44.14	54.00	-9.86	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.22	31.90	8.70	32.15	52.67	74.00	-21.33	4924.00
7386.00	34.55	36.49	11.76	31.83	50.97	74.00	-23.03	7386.00
9848.00	36.73	38.62	14.31	31.77	57.89	74.00	-16.11	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.63	31.90	8.70	32.15	52.08	74.00	-21.92	Horizontal
7386.00	33.50	36.49	11.76	31.83	49.92	74.00	-24.08	Horizontal
9848.00	32.92	38.62	14.31	31.77	54.08	74.00	-19.92	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	35.19	31.90	8.70	32.15	43.64	54.00	-10.36	Vertical
7386.00	24.48	36.49	11.76	31.83	40.90	54.00	-13.10	Vertical
9848.00	25.25	38.62	14.31	31.77	46.41	54.00	-7.59	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.03	31.90	8.70	32.15	42.48	54.00	-11.52	Horizontal
7386.00	22.90	36.49	11.76	31.83	39.32	54.00	-14.68	Horizontal
9848.00	22.19	38.62	14.31	31.77	43.35	54.00	-10.65	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Read Level HBuV) 98.85	Antenna Factor (dB/m) 31.81 36.28	Cable Loss (dB) 8.63	Pread Fact (dB	tor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	polarization
Level HBuV) 88.85 83.31	Factor (dB/m) 31.81	Loss (dB)	Fact (dB	tor				polarization
33.31		8.63	32.1			, ,	(dB)	p 3.3 .26
	36.28			11	47.18	74.00	-26.82	Vertical
		11.69	31.94		49.34	74.00	-24.66	Vertical
32.06	38.13	14.21	31.52		52.88	74.00	-21.12	Vertical
*						74.00		Vertical
*						74.00		Vertical
*						74.00		Vertical
37.74	31.81	8.63	32.1	11	46.07	74.00	-27.93	Horizontal
33.17	36.28	11.69	31.9	94	49.20	74.00	-24.80	Horizontal
1.69	38.13	14.21	31.5	52	52.51	74.00	-21.49	Horizontal
*						74.00		Horizontal
*						74.00		Horizontal
*						74.00		Horizontal
3	* * 7.74 3.17 1.69 * *	* * 7.74 31.81 3.17 36.28 1.69 38.13 * *	* * 7.74 31.81 8.63 3.17 36.28 11.69 1.69 38.13 14.21 * *	* * 7.74 31.81 8.63 32.7 3.17 36.28 11.69 31.9 1.69 38.13 14.21 31.9 *	* * 7.74 31.81 8.63 32.11 3.17 36.28 11.69 31.94 1.69 38.13 14.21 31.52 * *	* * 7.74 31.81 8.63 32.11 46.07 3.17 36.28 11.69 31.94 49.20 1.69 38.13 14.21 31.52 52.51 * *	* 74.00 * 74.00 * 74.00 * 74.00 7.74 31.81 8.63 32.11 46.07 74.00 3.17 36.28 11.69 31.94 49.20 74.00 1.69 38.13 14.21 31.52 52.51 74.00 * 74.00 * 74.00	* 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00 * 74.00

Average value:

Average var								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.05	31.81	8.63	32.11	36.38	54.00	-17.62	Vertical
7266.00	22.20	36.28	11.69	31.94	38.23	54.00	-15.77	Vertical
9688.00	22.43	38.13	14.21	31.52	43.25	54.00	-10.75	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.36	31.81	8.63	32.11	35.69	54.00	-18.31	Horizontal
7266.00	21.78	36.28	11.69	31.94	37.81	54.00	-16.19	Horizontal
9688.00	21.46	38.13	14.21	31.52	42.28	54.00	-11.72	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)	•	Test channel:			Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.16	31.85	8.66	32.12		46.55	74.00		-27.45	Vertical
7311.00	33.53	36.37	11.71	31.91		49.70	74.00		-24.30	Vertical
9748.00	33.19	38.27	14.25	31.56		54.15	74.00		-19.85	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.82	31.85	8.66	32.1	2	47.21	74.0	00	-26.79	Horizontal
7311.00	32.27	36.37	11.71	31.9	91	48.44	74.0	00	-25.56	Horizontal
9748.00	33.12	38.27	14.25	31.5	56	54.08	74.0	00	-19.92	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fact (dE	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.10	31.85	8.66	32.1	12	37.49	54.0	00	-16.51	Vertical
7311.00	21.88	36.37	11.71	31.9	91	38.05	54.0	00	-15.95	Vertical
9748.00	22.47	38.27	14.25	31.5	6	43.43	54.0	00	-10.57	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.00	31.85	8.66	32.1	2	37.39	54.0	00	-16.61	Horizontal
7311.00	21.38	36.37	11.71	31.9	91	37.55	54.0	00	-16.45	Horizontal
9748.00	22.86	38.27	14.25	31.5	6	43.82	54.0	00	-10.18	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	Tes	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	42.82	31.88	8.68	32.13	51.25	74.00	-22.75	Vertical
7356.00	33.66	36.45	11.75	31.86	50.00	74.00	-24.00	Vertical
9808.00	36.10	38.43	14.29	31.68	57.14	74.00	-16.86	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.45	31.88	8.68	32.13	50.88	74.00	-23.12	Horizontal
7356.00	32.73	36.45	11.75	31.86	49.07	74.00	-24.93	Horizontal
9808.00	32.34	38.43	14.29	31.68	53.38	74.00	-20.62	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	33.90	31.88	8.68	32.13	42.33	54.00	-11.67	Vertical
7356.00	23.63	36.45	11.75	31.86	39.97	54.00	-14.03	Vertical
9808.00	24.64	38.43	14.29	31.68	45.68	54.00	-8.32	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.92	31.88	8.68	32.13	41.35	54.00	-12.65	Horizontal
7356.00	22.15	36.45	11.75	31.86	38.49	54.00	-15.51	Horizontal
9808.00	21.63	38.43	14.29	31.68	42.67	54.00	-11.33	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

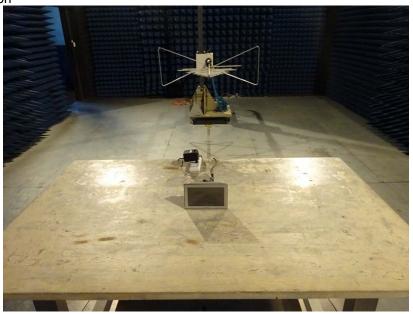
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

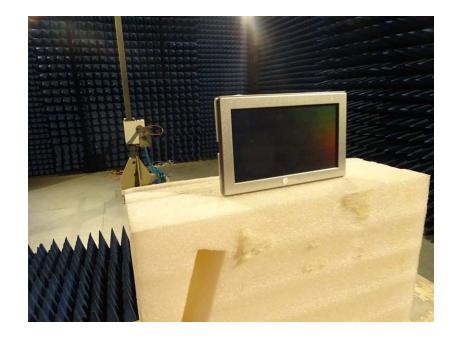
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission





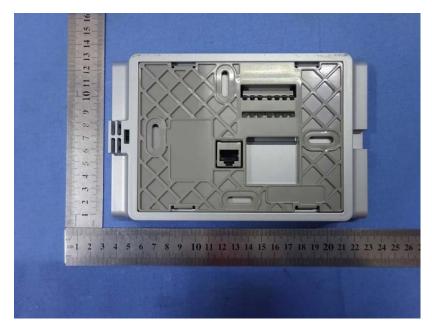
9 EUT Constructional Details





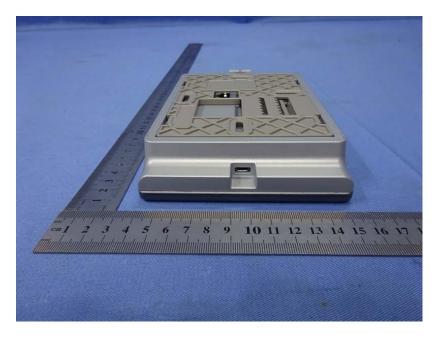
















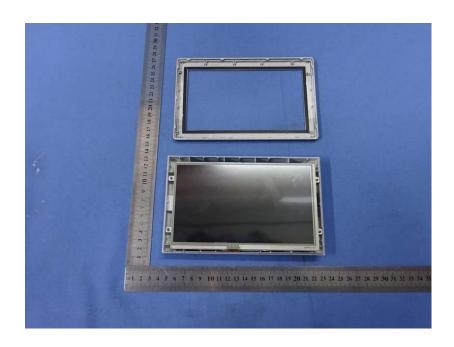






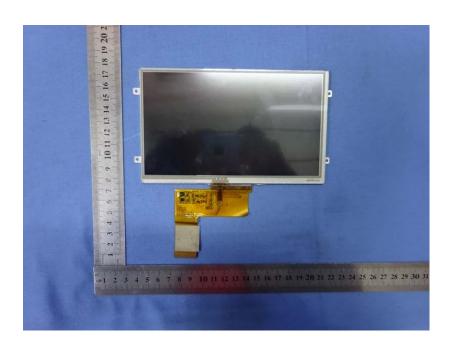






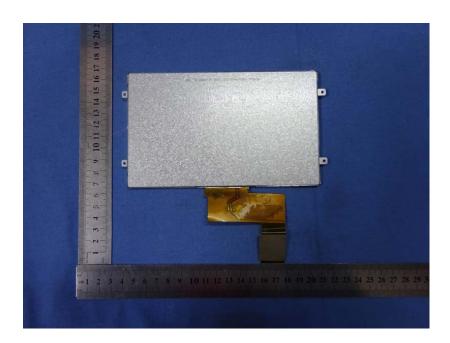






































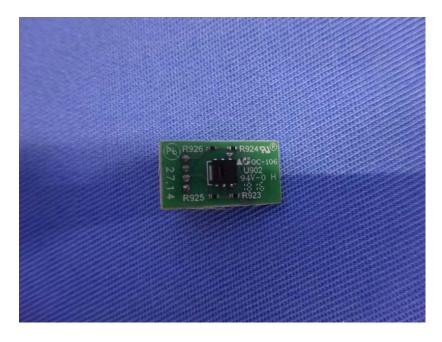
























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