

Global United Technology Services Co., Ltd.

Report No.: GTS201612000124F01

FCC Report (WIFI)

SHENZHEN SRTK TECHNOLOGY CO., LTD Applicant:

Floor 5, Block C, Minle Science and Technology Park, Meiban **Address of Applicant:**

Boulevard, Longhua District, Shenzhen, Guangdong

Manufacturer: SHENZHEN SRTK TECHNOLOGY CO., LTD

Address of Floor 5, Block C, Minle Science and Technology Park, Meiban

Boulevard, Longhua District, Shenzhen, Guangdong Manufacturer:

Equipment Under Test (EUT)

Product Name: Wifi Sports Camera

Model No.: X6, X6S, X1, X2, A1, A2, S1, S2, T1, T2

FCC ID: 2AKR5-X6

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2016

Date of sample receipt: December 29, 2016

Date of Test: December 29, 2016 - January 04, 2017

Date of report issued: January 05, 2017

PASS * **Test Result:**

Authorized Signature:

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.

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



2 Version

Version No.	Date	Description
00	January 05, 2017	Original

Prepared By:	Tigor Chen	Date:	January 05, 2017
	Project Engineer		
Check By:	Andy wa	Date:	January 05, 2017
	Poviowor	<u> </u>	_



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

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

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

Measurement Uncertainty

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

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5 General Information

5.1 General Description of EUT

Product Name:	Wifi Sports Camera
Model No.:	X6, X6S, X1, X2, A1, A2, S1, S2, T1, T2
Test Model No.:	X6
Remark:	All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is 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): 11 802.11(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(H40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral antenna
Antenna gain: 2.11dBi (declare by Applicant)	
Power supply:	DC 3.7V 1100mAh Li-ion Battery



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

Note:

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

Toot channel	Frequency (MHz)			
Test 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
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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

5.3 Description of Support Units

Manufacturer Description		Model	Serial Number
PHILIPS	LCD TV	19PFL3120/T3	AU1A1212002906



5.4 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 fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 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.

5.5 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

Radia	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	9.0(L)*6.0(W)* 6.0(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	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 29 2016	June 28 2017	
4	Loop Antenna	Zhinan	ZN30900A	GTS534	June. 29 2016	June 28 2017	
5	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June 28 2017	
6	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 29 2016	June 28 2017	
7	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June. 29 2016	June 28 2017	
8	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June 28 2017	
9	RF Amplifier	HP	8349B	GTS206	June. 29 2016	June 28 2017	
10	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 29 2016	June 28 2017	
11	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	June. 29 2016	June 28 2017	
12	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
13	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June 28 2017	
14	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June 28 2017	
15	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June 28 2017	
16	Coaxial Cable	GTS	N/A	GTS212	June. 29 2016	June 28 2017	
17	Thermo meter	N/A	N/A	GTS256	June. 29 2016	June 28 2017	
18	D.C. Power Supply	Instek	PS-3030	GTS232	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	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June 28 2017	
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June 28 2017	
5	High voltage probe	SCHWARZBECK	TK9420	GTS537	June. 29 2016	June 28 2017	
6	ISN	SCHWARZBECK	NTFM 8158	GTS565	June. 29 2016	June 28 2017	
7	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June 28 2017	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	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:

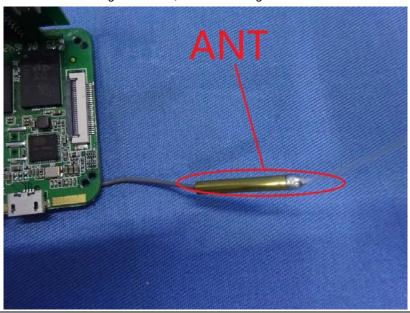
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.11dBi





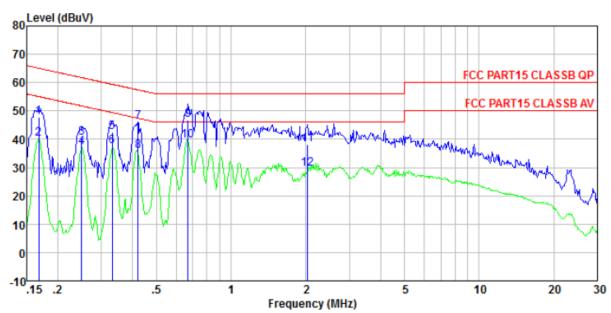
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	veep time=auto			
Limit:	Frequency range (MHz) Limit (dBuV)				
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5 5-30	<u>56</u> 60	46 50		
	* Decreases with the logarithm		50		
Test setup:	Reference Plane	r or and modulation.			
	LISN 40cm 80cm Filter AC power Equipment E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m				
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 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through LISN that provides a 50ohm/50uH coupling impedance with 50ohm 				
	termination. (Please refer to photographs).	the block diagram of	the test setup and		
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



Measurement data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LINE

Job No. : GTS201612000124

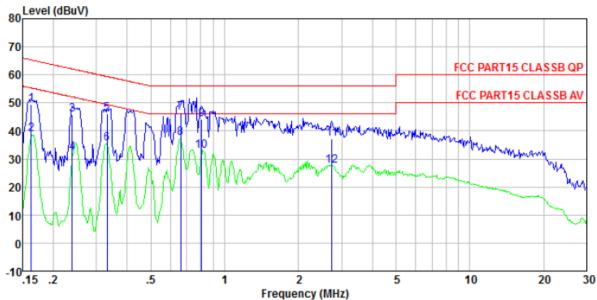
Test mode : WiFi mode

Test Engineer: Boy

	Freq	Read	LISN Factor	Cable Loss	Leve1	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9	0. 168 0. 168 0. 249 0. 249 0. 332 0. 332 0. 421 0. 421 0. 672	47. 36 39. 59 40. 03 36. 57 42. 05 36. 87 45. 64 35. 16 46. 46	0. 42 0. 42 0. 44 0. 43 0. 43 0. 41 0. 41	0. 12 0. 12 0. 11 0. 11 0. 10 0. 10 0. 11 0. 11 0. 13	47. 90 40. 13 40. 58 37. 12 42. 58 37. 40 46. 16 35. 68 46. 88	55. 08 61. 78 51. 78 59. 40 49. 40 57. 42 47. 42 56. 00	-21. 20 -14. 66 -16. 82 -12. 00 -11. 26 -11. 74 -9. 12	Average QP Average QP Average QP Average QP
10 11 12	0. 672 2. 033 2. 033	39. 18 37. 70 29. 08	0. 29 0. 20 0. 20	0. 13 0. 15 0. 15	39. 60 38. 05 29. 43	56.00	-17.95	Average QP Average



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP NEUTRAL

Job No. : GTS201612000124

Test mode : WiFi mode

Test Engineer: Boy

	Freq	Read Level	LISN Factor	Cable Loss	Leve1	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	₫B	dBuV	dBuV	dB	
1 2 3	0. 162 0. 162 0. 239	48. 79 38. 16 45. 26	0. 41 0. 41 0. 42	0. 12 0. 12 0. 12	49. 32 38. 69 45. 80	55.34 62.13	-16.33	Average QP
4 5 6	0. 239 0. 332 0. 332	31. 74 45. 57 34. 93	0. 42 0. 41 0. 41	0. 12 0. 10 0. 10	32. 28 46. 08 35. 44	59.40	-13.32	Average QP Average
7 8	0.661 0.661	45. 93 37. 09	0.25 0.25	0. 13 0. 13	46.31 37.47	56.00 46.00	-9. 69 -8. 53	QP Average
9 10 11	0. 804 0. 804 2. 736	43. 74 32. 62 36. 74	0. 23 0. 23 0. 20	0. 13 0. 13 0. 15	44. 10 32. 98 37. 09	46.00	-11. 90 -13. 02 -18. 91	Average
12	2, 736	27.34	0.20	0.15	27.69	46.00	-18.31	Average

Notes:

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



7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	KDB558074 D01 DTS Meas Guidance V03		
Limit:	30dBm		
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesult
Lowest	7.33	7.11	7.07	6.57		
Middle	7.37	7.07	7.18	6.69	30.00	Pass
Highest	7.13	7.29	7.03	6.52		

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7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	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 5.2 for details		
Test results:	Pass		

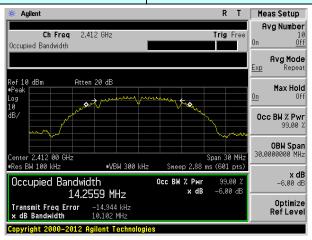
Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Liiiii((Ki iZ)	Result
Lowest	10.102	16.414	17.656	36.112		
Middle	10.179	16.437	17.642	36.276	>500	Pass
Highest	9.589	16.412	17.643	36.122		

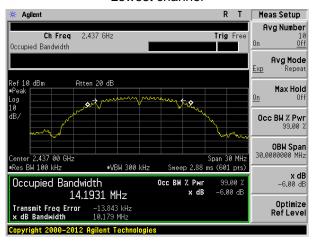
Test plot as follows:



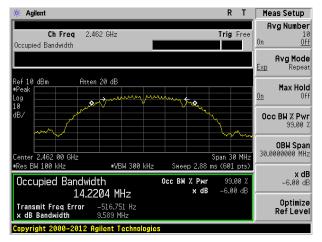
Test mode: 802.11b



Lowest channel



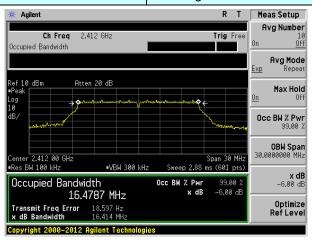
Middle channel



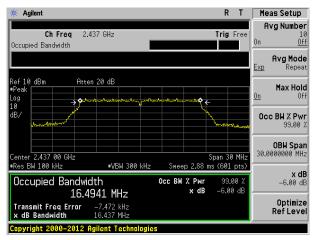
Highest channel

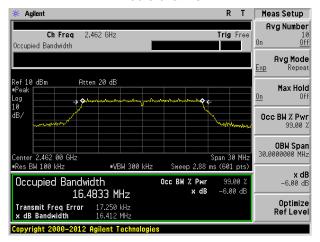


Test mode: 802.11g



Lowest channel

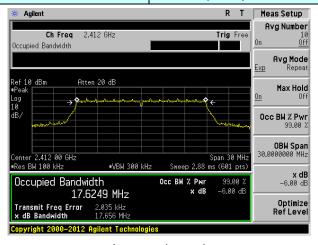




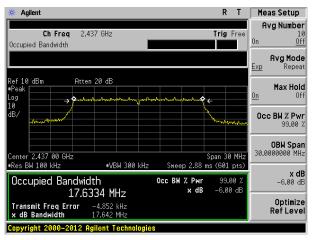
Highest channel

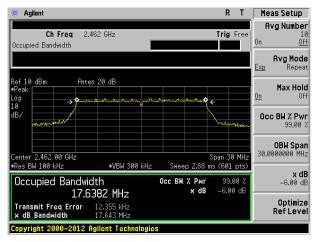


Test mode: 802.11n(HT20)



Lowest channel

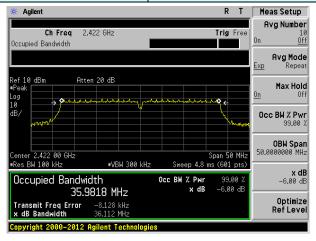




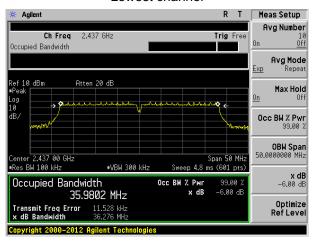
Highest channel

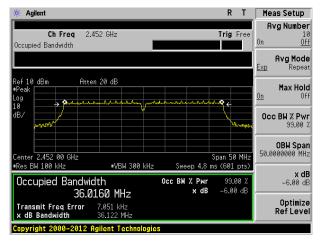


Test mode: 802.11n(HT40)



Lowest channel





Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	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 5.2 for details		
Test results:	Pass		

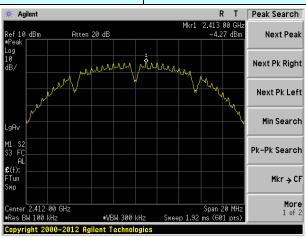
Measurement Data

Test CH		Power Spe	Limit	Result		
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesuit
Lowest	-4.27	-7.67	-7.41	-10.93		
Middle	-4.68	-7.59	-8.14	-11.00	8.00	Pass
Highest	-4.58	-7.28	-7.68	-10.92		

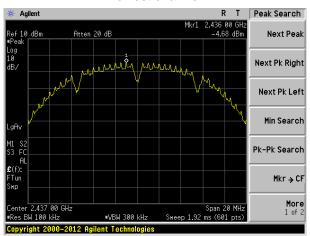


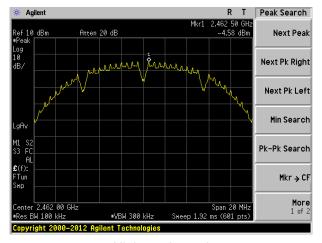
Test plot as follows:

Test mode: 802.11b



Lowest channel

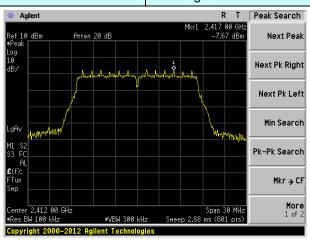




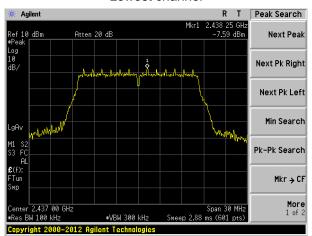
Highest channel

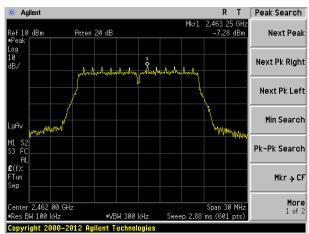


Test mode: 802.11g



Lowest channel

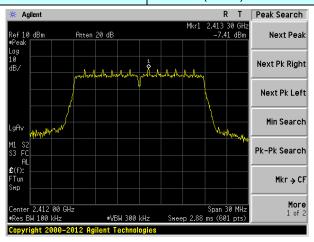




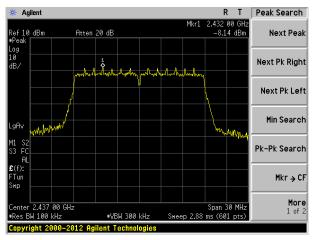
Highest channel

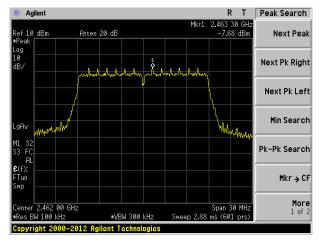


Test mode: 802.11n(HT20)



Lowest channel

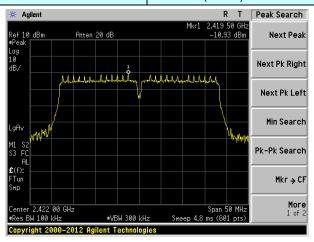




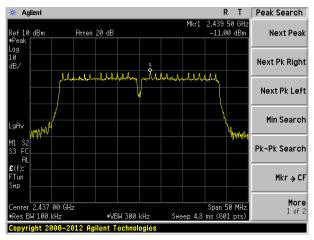
Highest channel

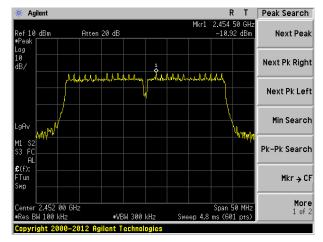


Test mode: 802.11n(HT40)



Lowest channel





Highest channel



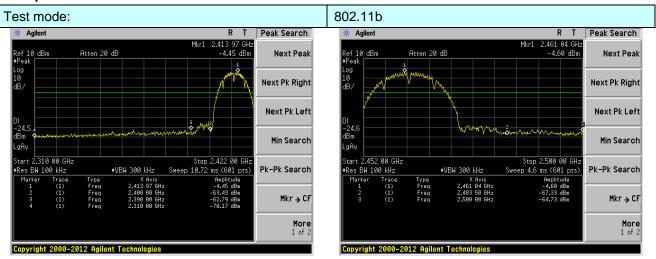
7.6 Band edges

7.6.1 Conducted Emission Method

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



Test plot as follows:



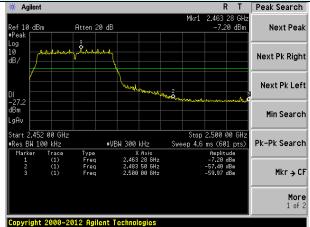
Lowest channel

Highest channel

Test mode: 802.11g ** Agilent R T Peak Search ** Agilent ** Agilent **

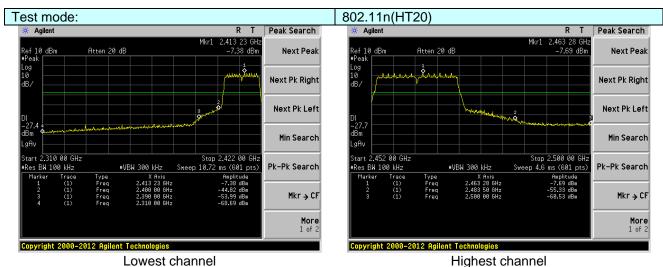


Lowest channel

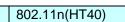


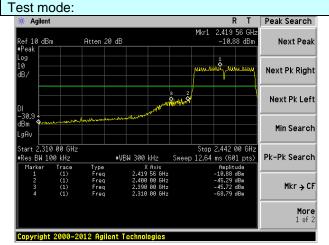
Highest channel



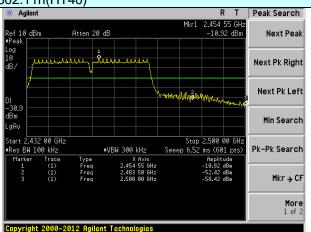


Lowest channel





Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C 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 was showed.					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency Detector RBW VBW Value					
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Frequency Limit (dBuV/m @3m) Value					
			54.0		Average	
	Above 10	HZ	74.0	Peak		
	Turn Table	< 3m :	Test Antenna - < 1m 4m >	plifier	SE V SEEL SEEL SEEL SEEL SEEL SEEL SEEL SEEL	
Test Procedure:	 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 sheet. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test 					
Tacklester	worst case mo			ort.		
Test Instruments:	Refer to section					
Test mode:	Refer to section	b.∠ for details	5			

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Test mode: 802.11b Test channel: Lowest	Limit Line (dBuV/m) Over Limit (dB) Polarization 74.00 -23.03 Horizon 74.00 -10.89 Horizon 74.00 -21.32 Vertice 74.00 -9.00 Vertice Limit Line Over Limit Polarization	Limit Line (dBuV/m) 74.00 74.00 74.00	Level (dBuV/m) 50.97 60.11 52.68	Preamp Factor (dB) 34.01	Cable Loss (dB) 5.38	Antenna Factor (dB/m)	: Read Level	Test mode: Peak value
Peak value: Read Level (dBuV) Antenna Level (dBuV) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polarizat (dB) 2390.00 52.01 27.59 5.38 34.01 50.97 74.00 -23.03 Horizont (dB) 2400.00 64.15 27.58 5.39 34.01 60.11 74.00 -10.89 Horizont Horizont (dB) 2390.00 53.72 27.59 5.38 34.01 52.68 74.00 -21.32 Vertical Vertical (dB) Average value: Frequency (MHz) Read Level (dBWV) Antenna Factor (dB) Cable Loss (dB) Preamp Factor (dB) Level (dBWV/m) Limit Line (dBWV/m) Polarizat (dB) 2390.00 38.67 27.59 5.38 34.01 37.63 54.00 -16.37 Horizont Horizont (dB) 2400.00 47.00 27.58 5.39 34.01 39.48 54.00 -8.04 Horizont Horizont (dB) 2390.00 48.15 27.59 5.38 34.01 39.48 54.	Limit Line (dBuV/m) Over Limit (dB) Polarization 74.00 -23.03 Horizon 74.00 -10.89 Horizon 74.00 -21.32 Vertice 74.00 -9.00 Vertice Limit Line Over Limit Polarization	Limit Line (dBuV/m) 74.00 74.00 74.00	Level (dBuV/m) 50.97 60.11 52.68	Preamp Factor (dB) 34.01	Cable Loss (dB) 5.38	Antenna Factor (dB/m)	Read Level	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 Limit (dB) Polarizat (dB) 2390.00 52.01 27.59 5.38 34.01 50.97 74.00 -23.03 Horizont (dB) 2400.00 64.15 27.58 5.39 34.01 60.11 74.00 -10.89 Horizont (dB) 2390.00 53.72 27.59 5.38 34.01 52.68 74.00 -21.32 Vertical Vertical (dB) Average value: Frequency (MHz) Read Level (dB/m) Antenna Level (dB/m) Cable Loss (dB/m) Level (dB/m) Limit Line (dB/m) Over Limit (dB) Polarizat (dB/m) Polarizat (dB/m) Polarizat (dB/m) Antenna (dB/m) 1.00 -9.00 Vertical Vertical (dB/m) Polarizat (dB/m)	Limit Line (dBuV/m) Limit (dB) Polariza 74.00 -23.03 Horizor 74.00 -10.89 Horizor 74.00 -21.32 Vertic 74.00 -9.00 Vertic	74.00 74.00 74.00	(dBuV/m) 50.97 60.11 52.68	Factor (dB) 34.01 34.01	Loss (dB) 5.38	Factor (dB/m)	Read Level	
Frequency (MHz)	Limit Line (dBuV/m) Limit (dB) Polariza 74.00 -23.03 Horizor 74.00 -10.89 Horizor 74.00 -21.32 Vertic 74.00 -9.00 Vertic	74.00 74.00 74.00	(dBuV/m) 50.97 60.11 52.68	Factor (dB) 34.01 34.01	Loss (dB) 5.38	Factor (dB/m)	Level	Fraguanay
2400.00 64.15 27.58 5.39 34.01 60.11 74.00 -10.89 Horizont 2390.00 53.72 27.59 5.38 34.01 52.68 74.00 -21.32 Vertical 2400.00 66.04 27.58 5.39 34.01 65.00 74.00 -9.00 Vertical Average value: Frequency (MHz) Read Level (dBwV) Antenna Factor (dB) Level (dBwV/m) Limit Line (dBwV/m) Over Limit (dB) Polarization 2390.00 38.67 27.59 5.38 34.01 37.63 54.00 -16.37 Horizont 2400.00 47.00 27.58 5.39 34.01 45.96 54.00 -8.04 Horizont 2390.00 40.52 27.59 5.38 34.01 39.48 54.00 -14.52 Vertical 2400.00 48.15 27.58 5.39 34.01 47.11 54.00 -6.89 Vertical	74.00 -10.89 Horizon 74.00 -21.32 Vertic 74.00 -9.00 Vertic Limit Line Over Limit Polariza	74.00 74.00	60.11 52.68	34.01		27.59	,	
2390.00 53.72 27.59 5.38 34.01 52.68 74.00 -21.32 Vertical V	74.00 -21.32 Vertice 74.00 -9.00 Vertice Limit Line Over Limit Polariza	74.00	52.68		5.39		52.01	2390.00
2400.00 66.04 27.58 5.39 34.01 65.00 74.00 -9.00 Vertical Ve	74.00 -9.00 Vertice Limit Line Over Limit Polariza			34.01		27.58	64.15	2400.00
Average value: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polarizat (dB) 2390.00 38.67 27.59 5.38 34.01 37.63 54.00 -16.37 Horizont Horizo	Limit Line Over	74.00	65.00		5.38	27.59	53.72	2390.00
Frequency (MHz) Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polarizat (dB) 2390.00 38.67 27.59 5.38 34.01 37.63 54.00 -16.37 Horizont Horiz	Limit Line Limit Polariza			34.01	5.39	27.58	66.04	2400.00
Frequency (MHz)	Limit Line Limit Polariza						lue:	Average va
2400.00 47.00 27.58 5.39 34.01 45.96 54.00 -8.04 Horizont 2390.00 40.52 27.59 5.38 34.01 39.48 54.00 -14.52 Vertical 2400.00 48.15 27.58 5.39 34.01 47.11 54.00 -6.89 Vertical	(dB)			Factor	Loss	Factor	Level	
2390.00 40.52 27.59 5.38 34.01 39.48 54.00 -14.52 Vertical 2400.00 48.15 27.58 5.39 34.01 47.11 54.00 -6.89 Vertical	54.00 -16.37 Horizon	54.00	37.63	34.01	5.38	27.59	38.67	2390.00
2400.00 48.15 27.58 5.39 34.01 47.11 54.00 -6.89 Vertical	54.00 -8.04 Horizon	54.00	45.96	34.01	5.39	27.58	47.00	2400.00
	54.00 -14.52 Vertic	54.00	39.48	34.01	5.38	27.59	40.52	2390.00
Test mode: 802.11b Test channel: Highest	54.00 -6.89 Vertic	54.00	47.11	34.01	5.39	27.58	48.15	2400.00
Test mode: 802.11b Test channel: Highest								
1.13.100	Highest		st channel:	Te	1b	802.1		Test mode:
Peak value:								
Frequency (MHz) Read Level (dBuV) (dB/m) Cable Loss Factor (dB) Level (dBuV/m) Cable Factor (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Cable Factor (dBuV/	Limit Line Limit Polariza			Factor	Loss	Factor	Level	
2483.50 55.82 27.53 5.47 33.92 51.90 74.00 -19.10 Horizont	74.00 -19.10 Horizor	74.00	51.90	33.92	5.47	27.53	55.82	2483.50
2500.00 48.53 27.55 5.49 29.93 51.64 74.00 -22.36 Horizont	74.00 -22.36 Horizon	74.00	51.64	29.93	5.49	27.55	48.53	2500.00
2483.50 58.16 27.53 5.47 33.92 57.24 74.00 -16.76 Vertical	74.00 -16.76 Vertic	74.00	57.24	33.92	5.47	27.53	58.16	2483.50
2500.00 51.11 27.55 5.49 29.93 54.22 74.00 -19.78 Vertical	74.00 -19.78 Vertic	74.00	54.22	29.93	5.49	27.55	51.11	2500.00
Average value:							lue:	Average va
Frequency (MHz) Read Level (dBuV) Antenna Cable Loss Factor (dB/m) (dB) Preamp Factor (dB) Level (dBuV/m) Cover (dB) Cover (dB) Cover (dBuV/m) Cover (dBuV/m) Cover (dB) Preamp Factor (dBuV/m) Cover (dBuV/m) Cover (dBuV/m) Cover (dBuV/m) Cover (dB) Cover	(dBu)//m) Limit Polariza			Factor	Loss	Factor	Level	
2483.50 39.09 27.53 5.47 33.92 38.17 54.00 -15.83 Horizont	54.00 -15.83 Horizon	54.00	38.17	33.92	5.47	27.53	39.09	2483.50
2500.00 35.12 27.55 5.49 29.93 38.23 54.00 -15.77 Horizont	54.00 -15.77 Horizon	54.00	38.23	29.93	5.49	27.55	35.12	2500.00
2483.50 41.07 27.53 5.47 33.92 40.15 54.00 -13.85 Vertical	54.00 -13.85 Vertic	54.00	40.15	33.92	5.47	27.53	41.07	2483.50
2500.00 37.02 27.55 5.49 29.93 40.13 54.00 -13.87 Vertical		54.00	40.13	20.02	5 40	07.55	27.02	2500.00

Remark:

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



Report No.: GTS201612000124F01

Test mode:		802.1	1g	-	Test channel:		Lowest	
Peak value	:	<u>'</u>		•		<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	1 1 40/41	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	51.33	27.59	5.38	34.01	50.29	74.00	-23.71	Horizontal
2400.00	60.24	27.58	5.39	34.01	59.20	74.00	-14.80	Horizontal
2390.00	52.99	27.59	5.38	34.01	51.95	74.00	-22.05	Vertical
2400.00	64.95	27.58	5.39	34.01	63.91	74.00	-10.09	Vertical
Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	' I I AVAI	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	38.19	27.59	5.38	34.01	37.15	54.00	-16.85	Horizontal
2400.00	46.45	27.58	5.39	34.01	45.41	54.00	-8.59	Horizontal
2390.00	39.98	27.59	5.38	34.01	38.94	54.00	-15.06	Vertical
2400.00	47.55	27.58	5.39	34.01	46.51	54.00	-7.49	Vertical
Test mode:		802.1	1g	-	Test channel:		Highest	
Peak value	<u> </u>							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	' i levei	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	51.85	27.53	5.47	33.92	50.93	74.00	-23.07	Horizontal
2500.00	47.78	27.55	5.49	29.93	50.89	74.00	-23.11	Horizontal
2483.50	57.05	27.53	5.47	33.92	56.13	74.00	-17.87	Vertical
2500.00	50.23	27.55	5.49	29.93	53.34	74.00	-20.66	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	1 4004	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	38.50	27.53	5.47	33.92	37.58	54.00	-16.42	Horizontal
2500.00	34.66	27.55	5.49	29.93	37.77	54.00	-16.23	Horizontal
2483.50	40.42	27.53	5.47	33.92	39.50	54.00	-14.50	Vertical
2500.00				I	1	l	1	1
2500.00 Remark:	36.53	27.55	5.49	29.93	39.64	54.00	-14.36	Vertical

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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:

Report No.: GTS201612000124F01

Lowest

i est illoue.		002.1	111(11120)	10	St Gharmer.	L	LOWESI	
Peak value				·		·		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	51.53	27.59	5.38	34.01	50.49	74.00	-23.51	Horizontal
2400.00	60.50	27.58	5.39	34.01	59.46	74.00	-14.54	Horizontal
2390.00	53.20	27.59	5.38	34.01	52.16	74.00	-21.84	Vertical
2400.00	65.27	27.58	5.39	34.01	64.23	74.00	-9.77	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.33	27.59	5.38	34.01	37.29	54.00	-16.71	Horizontal
2400.00	46.61	27.58	5.39	34.01	45.57	54.00	-8.43	Horizontal
2390.00	40.14	27.59	5.38	34.01	39.10	54.00	-14.90	Vertical
2400.00	47.72	27.58	5.39	34.01	46.68	54.00	-7.32	Vertical
Test mode:		802.1	1n(HT20)	Te	st channel:	ŀ	Highest	
Peak value		•			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	52.14	27.53	5.47	33.92	51.22	74.00	-22.78	Horizontal
2500.00	48.00	27.55	5.49	29.93	51.11	74.00	-22.89	Horizontal
2483.50	57.37	27.53	5.47	33.92	56.45	74.00	-17.55	Vertical
2500.00	50.49	27.55	5.49	29.93	53.60	74.00	-20.40	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	38.67	27.53	5.47	33.92	37.75	54.00	-16.25	Horizontal
2500.00	34.80	27.55	5.49	29.93	37.91	54.00	-16.09	Horizontal
2483.50	40.61	27.53	5.47	33.92	39.69	54.00	-14.31	Vertical
2500.00	36.67	27.55	5.49	29.93	39.78	54.00	-14.22	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.: GTS201612000124F01

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	50.72	27.59	5.38	34.01	49.68	74.00	-24.32	Horizontal
2400.00	59.43	27.58	5.39	34.01	58.39	74.00	-15.61	Horizontal
2390.00	52.34	27.59	5.38	34.01	51.30	74.00	-22.70	Vertical
2400.00	63.97	27.58	5.39	34.01	62.93	74.00	-11.07	Vertical
Average va	lue:				•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.75	27.59	5.38	34.01	36.71	54.00	-17.29	Horizontal
2400.00	45.95	27.58	5.39	34.01	44.91	54.00	-9.09	Horizontal
2390.00	39.50	27.59	5.38	34.01	38.46	54.00	-15.54	Vertical
2400.00	47.00	27.58	5.39	34.01	45.96	54.00	-8.04	Vertical
•				•	•			•
Test mode:		802.1	1n(HT40)	Te	st channel:	H	lighest	
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	50.98	27.53	5.47	33.92	50.06	74.00	-23.94	Horizontal
2500.00	47.11	27.55	5.49	29.93	50.22	74.00	-23.78	Horizontal
2483.50	56.05	27.53	5.47	33.92	55.13	74.00	-18.87	Vertical
2500.00	49.44	27.55	5.49	29.93	52.55	74.00	-21.45	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	37.98	27.53	5.47	33.92	37.06	54.00	-16.94	Horizontal
2500.00	34.26	27.55	5.49	29.93	37.37	54.00	-16.63	Horizontal
2483.50	39.84	27.53	5.47	33.92	38.92	54.00	-15.08	Vertical
2500.00	36.10	27.55	5.49	29.93	39.21	54.00	-14.79	Vertical
Remark:								

Test channel:

802.11n(HT40)

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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

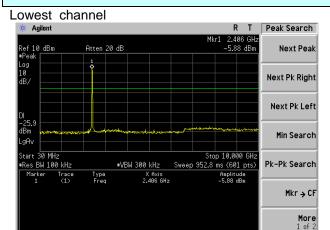
Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	KDB558074 D01 DTS Meas Guidance V03			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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 5.2 for details			
Test results:	Pass			



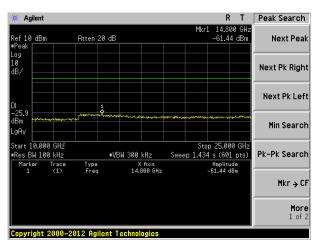
Test plot as follows:

Test mode:

802.11b



30MHz~10GHz

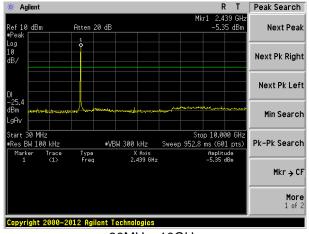


10GHz~25GHz

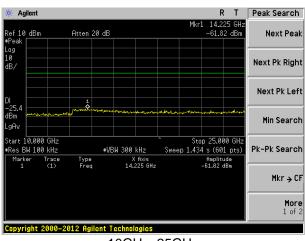


Middle channel

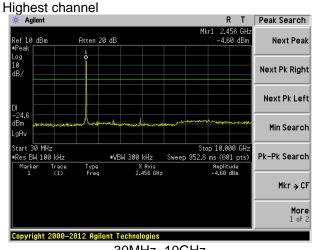
Copyright 2000-2012 Agilent Technologies



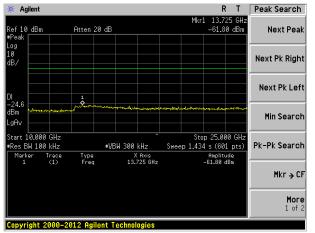
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



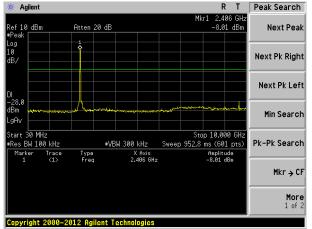
10GHz~25GHz



Test mode:

802.11g

Lowest channel

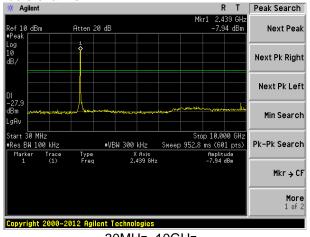


30MHz~10GHz

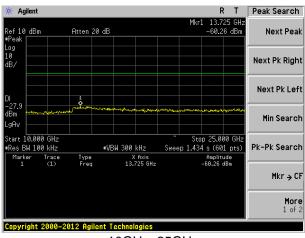
Agilent R T Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search X Axis 13.925 GHz Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

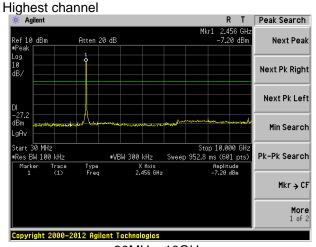
Middle channel



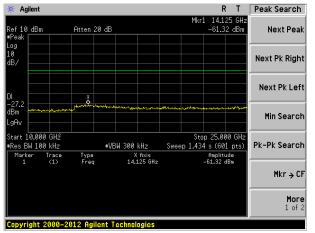
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R T Peak Search

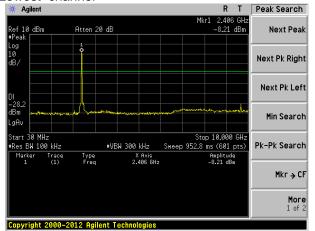
More 1 of 2

Test mode:

802.11n(HT20)

🗰 Agilent

Lowest channel

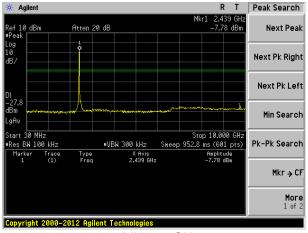


30MHz~10GHz

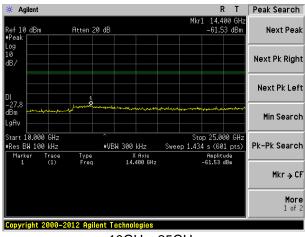
10GHz~25GHz

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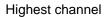
Middle channel

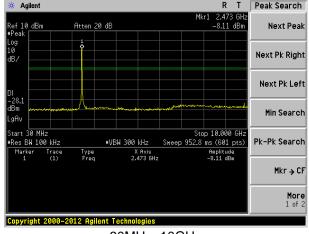


30MHz~10GHz

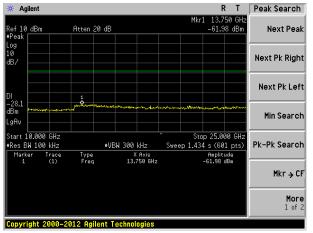


10GHz~25GHz





30MHz~10GHz



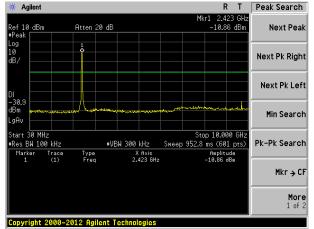
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

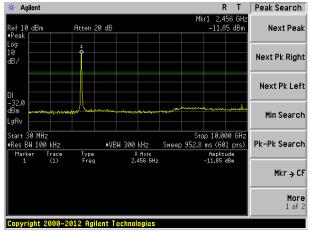


30MHz~10GHz

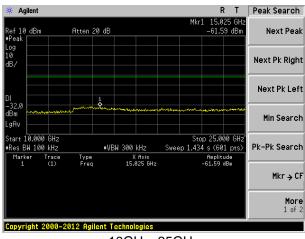
R T Peak Search 14.175 GHz -60.57 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 14.175 GHz Amplitude -60.57 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

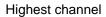
Middle channel

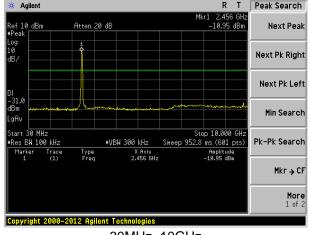


30MHz~10GHz

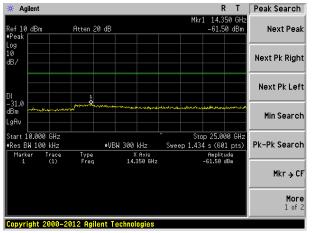


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m								
Receiver setup:	Frequency Detector RBW VBW Value									
	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak									
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above 1G112	Average	1MHz	3MHz	Average					
Limit:	Frequen	су	Limit (dBuV/	m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	GHz	54.0	0	Quasi-peak					
	Above 10	SH ₇	54.0	0	Average					
	Above 10)1 1Z	74.0	0	Peak					
Test setup:	Above 1GHz	EUT+		Antenna 4m >v	Gier-					



	Test Antenna. Compared to the content of the con
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.
	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 5.2 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

	0112							
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
37.55	31.60	14.96	0.64	30.06	17.14	40.00	-22.86	Vertical
99.53	25.73	15.13	1.19	29.70	12.35	43.50	-31.15	Vertical
150.01	29.76	10.26	1.57	29.41	12.18	43.50	-31.32	Vertical
480.53	34.96	18.07	3.22	29.34	26.91	46.00	-19.09	Vertical
550.95	43.20	19.57	3.53	29.30	37.00	46.00	-9.00	Vertical
649.66	45.45	20.64	3.91	29.25	40.75	46.00	-5.25	Vertical
40.56	25.44	15.58	0.67	30.04	11.65	40.00	-28.35	Horizontal
55.61	25.85	14.97	0.82	29.95	11.69	40.00	-28.31	Horizontal
107.13	25.60	14.49	1.25	29.65	11.69	43.50	-31.81	Horizontal
242.53	23.94	14.08	2.08	29.58	10.52	46.00	-35.48	Horizontal
428.02	24.11	17.51	2.99	29.44	15.17	46.00	-30.83	Horizontal
649.66	28.35	20.64	3.91	29.25	23.65	46.00	-22.35	Horizontal



■ Above 1GHz

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	41.79	31.79	8.62	32.10	50.10	74.00	-23.90	Vertical
7236.00	35.17	36.19	11.68	31.97	51.07	74.00	-22.93	Vertical
9648.00	33.39	38.07	14.16	31.56	54.06	74.00	-19.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.23	31.79	8.62	32.10	48.54	74.00	-25.46	Horizontal
7236.00	34.80	36.19	11.68	31.97	50.70	74.00	-23.30	Horizontal
9648.00	32.92	38.07	14.16	31.56	53.59	74.00	-20.41	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	30.76	31.79	8.62	32.10	39.07	54.00	-14.93	Vertical
7236.00	24.00	36.19	11.68	31.97	39.90	54.00	-14.10	Vertical
9648.00	23.71	38.07	14.16	31.56	44.38	54.00	-9.62	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.69	31.79	8.62	32.10	38.00	54.00	-16.00	Horizontal
7236.00	23.35	36.19	11.68	31.97	39.25	54.00	-14.75	Horizontal
9648.00	22.64	38.07	14.16	31.56	43.31	54.00	-10.69	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:		802.11b		Tes	st 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	40.59	31.85	8.66	32.12	48.98	74.00	-25.02	Vertical
7311.00	35.07	36.37	11.71	31.91	51.24	74.00	-22.76	Vertical
9748.00	34.29	38.27	14.25	31.56	55.25	74.00	-18.75	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.88	31.85	8.66	32.12	49.27	74.00	-24.73	Horizontal
7311.00	33.62	36.37	11.71	31.91	49.79	74.00	-24.21	Horizontal
9748.00	34.14	38.27	14.25	31.56	55.10	74.00	-18.90	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	31.35	31.85	8.66	32.12	39.74	54.00	-14.26	Vertical
7311.00	23.36	36.37	11.71	31.91	39.53	54.00	-14.47	Vertical
9748.00	23.52	38.27	14.25	31.56	44.48	54.00	-9.52	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.92	31.85	8.66	32.12	39.31	54.00	-14.69	Horizontal
7311.00	22.68	36.37	11.71	31.91	38.85	54.00	-15.15	Horizontal
9748.00	23.83	38.27	14.25	31.56	44.79	54.00	-9.21	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:	802.11b		Test	channel:	High	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
4924.00	47.02	31.90	8.70	32.15	55.47	74.00	-18.53	Vertical
7386.00	36.32	36.49	11.76	31.83	52.74	74.00	-21.26	Vertical
9848.00	37.99	38.62	14.31	31.77	59.15	74.00	-14.85	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.99	31.90	8.70	32.15	54.44	74.00	-19.56	Horizontal
7386.00	35.05	36.49	11.76	31.83	51.47	74.00	-22.53	Horizontal
9848.00	34.09	38.62	14.31	31.77	55.25	74.00	-18.75	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	37.76	31.90	8.70	32.15	46.21	54.00	-7.79	Vertical
7386.00	26.19	36.49	11.76	31.83	42.61	54.00	-11.39	Vertical
9848.00	26.46	38.62	14.31	31.77	47.62	54.00	-6.38	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	36.24	31.90	8.70	32.15	44.69	54.00	-9.31	Horizontal
7386.00	24.40	36.49	11.76	31.83	40.82	54.00	-13.18	Horizontal
9848.00	23.32	38.62	14.31	31.77	44.48	54.00	-9.52	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.



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	41.79	31.79	8.62	32.10	50.10	74.00	-23.90	Vertical
7236.00	35.17	36.19	11.68	31.97	51.07	74.00	-22.93	Vertical
9648.00	33.39	38.07	14.16	31.56	54.06	74.00	-19.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.23	31.79	8.62	32.10	48.54	74.00	-25.46	Horizontal
7236.00	34.80	36.19	11.68	31.97	50.70	74.00	-23.30	Horizontal
9648.00	32.92	38.07	14.16	31.56	53.59	74.00	-20.41	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	30.76	31.79	8.62	32.10	39.07	54.00	-14.93	Vertical
7236.00	24.00	36.19	11.68	31.97	39.90	54.00	-14.10	Vertical
9648.00	23.71	38.07	14.16	31.56	44.38	54.00	-9.62	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	29.69	31.79	8.62	32.10	38.00	54.00	-16.00	Horizontal
7236.00	23.35	36.19	11.68	31.97	39.25	54.00	-14.75	Horizontal
9648.00	22.64	38.07	14.16	31.56	43.31	54.00	-10.69	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		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	40.59	31.85	8.66	32.12	48.98	74.00	-25.02	Vertical
7311.00	35.07	36.37	11.71	31.91	51.24	74.00	-22.76	Vertical
9748.00	34.29	38.27	14.25	31.56	55.25	74.00	-18.75	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.88	31.85	8.66	32.12	49.27	74.00	-24.73	Horizontal
7311.00	33.62	36.37	11.71	31.91	49.79	74.00	-24.21	Horizontal
9748.00	34.14	38.27	14.25	31.56	55.10	74.00	-18.90	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	31.35	31.85	8.66	32.12	39.74	54.00	-14.26	Vertical
7311.00	23.36	36.37	11.71	31.91	39.53	54.00	-14.47	Vertical
9748.00	23.52	38.27	14.25	31.56	44.48	54.00	-9.52	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.92	31.85	8.66	32.12	39.31	54.00	-14.69	Horizontal
7311.00	22.68	36.37	11.71	31.91	38.85	54.00	-15.15	Horizontal
9748.00	23.83	38.27	14.25	31.56	44.79	54.00	-9.21	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:		802.11g		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	47.02	31.90	8.70	32.15	55.47	74.00	-18.53	Vertical
7386.00	36.32	36.49	11.76	31.83	52.74	74.00	-21.26	Vertical
9848.00	37.99	38.62	14.31	31.77	59.15	74.00	-14.85	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.99	31.90	8.70	32.15	54.44	74.00	-19.56	Horizontal
7386.00	35.05	36.49	11.76	31.83	51.47	74.00	-22.53	Horizontal
9848.00	34.09	38.62	14.31	31.77	55.25	74.00	-18.75	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	37.76	31.90	8.70	32.15	46.21	54.00	-7.79	Vertical
7386.00	26.19	36.49	11.76	31.83	42.61	54.00	-11.39	Vertical
9848.00	26.46	38.62	14.31	31.77	47.62	54.00	-6.38	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	36.24	31.90	8.70	32.15	44.69	54.00	-9.31	Horizontal
7386.00	24.40	36.49	11.76	31.83	40.82	54.00	-13.18	Horizontal
9848.00	23.32	38.62	14.31	31.77	44.48	54.00	-9.52	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.



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	41.79	31.79	8.62	32.10	50.10	74.00	-23.90	Vertical
7236.00	35.17	36.19	11.68	31.97	51.07	74.00	-22.93	Vertical
9648.00	33.39	38.07	14.16	31.56	54.06	74.00	-19.94	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.23	31.79	8.62	32.10	48.54	74.00	-25.46	Horizontal
7236.00	34.80	36.19	11.68	31.97	50.70	74.00	-23.30	Horizontal
9648.00	32.92	38.07	14.16	31.56	53.59	74.00	-20.41	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	30.76	31.79	8.62	32.10	39.07	54.00	-14.93	Vertical
7236.00	24.00	36.19	11.68	31.97	39.90	54.00	-14.10	Vertical
9648.00	23.71	38.07	14.16	31.56	44.38	54.00	-9.62	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.69	31.79	8.62	32.10	38.00	54.00	-16.00	Horizontal
7236.00	23.35	36.19	11.68	31.97	39.25	54.00	-14.75	Horizontal
9648.00	22.64	38.07	14.16	31.56	43.31	54.00	-10.69	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	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	40.59	31.85	8.66	32.12	48.98	74.00	-25.02	Vertical
7311.00	35.07	36.37	11.71	31.91	51.24	74.00	-22.76	Vertical
9748.00	34.29	38.27	14.25	31.56	55.25	74.00	-18.75	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.88	31.85	8.66	32.12	49.27	74.00	-24.73	Horizontal
7311.00	33.62	36.37	11.71	31.91	49.79	74.00	-24.21	Horizontal
9748.00	34.14	38.27	14.25	31.56	55.10	74.00	-18.90	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	31.35	31.85	8.66	32.12	39.74	54.00	-14.26	Vertical
7311.00	23.36	36.37	11.71	31.91	39.53	54.00	-14.47	Vertical
9748.00	23.52	38.27	14.25	31.56	44.48	54.00	-9.52	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.92	31.85	8.66	32.12	39.31	54.00	-14.69	Horizontal
7311.00	22.68	36.37	11.71	31.91	38.85	54.00	-15.15	Horizontal
9748.00	23.83	38.27	14.25	31.56	44.79	54.00	-9.21	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)	Te	est channel:		High	est	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)			Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	47.02	31.90	8.70	32.15	55.4	7	74.00	-18.53	Vertical
7386.00	36.32	36.49	11.76	31.83	52.7	4	74.00	-21.26	Vertical
9848.00	37.99	38.62	14.31	31.77	59.1	5	74.00	-14.85	Vertical
12310.00	*						74.00		Vertical
14772.00	*						74.00		Vertical
17234.00	*						74.00		Vertical
4924.00	45.99	31.90	8.70	32.15	54.4	4	74.00	-19.56	Horizontal
7386.00	35.05	36.49	11.76	31.83	51.4	7	74.00	-22.53	Horizontal
9848.00	34.09	38.62	14.31	31.77	55.2	5	74.00	-18.75	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)	Pream Facto (dB)	. I EVE		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	37.76	31.90	8.70	32.15	46.2	1	54.00	-7.79	Vertical
7386.00	26.19	36.49	11.76	31.83	42.6	1	54.00	-11.39	Vertical
9848.00	26.46	38.62	14.31	31.77	47.6	2	54.00	-6.38	Vertical
12310.00	*						54.00		Vertical
14772.00	*						54.00		Vertical
17234.00	*						54.00		Vertical
4924.00	36.24	31.90	8.70	32.15	44.6	9	54.00	-9.31	Horizontal
7386.00	24.40	36.49	11.76	31.83	40.8	2	54.00	-13.18	Horizontal
9848.00	23.32	38.62	14.31	31.77	44.4	8	54.00	-9.52	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.



Test mode:		802.11n(HT40)			Test	channel:		Lowe	st	
Peak value:		1								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	41.79	31.81	8.63	32.11		50.12	74.00		-23.88	Vertical
7266.00	35.17	36.28	11.69	31.94		51.20	74.00		-22.80	Vertical
9688.00	33.39	38.13	14.21	31.52		54.21	74.00		-19.79	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	40.23	31.81	8.63	32	.11	48.56	74.	00	-25.44	Horizontal
7266.00	34.80	36.28	11.69	31	.94	50.83	74.	00	-23.17	Horizontal
9688.00	32.92	38.13	14.21	31	.52	53.74	74.	00	-20.26	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

5								
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	30.76	31.81	8.63	32.11	39.09	54.00	-14.91	Vertical
7266.00	24.00	36.28	11.69	31.94	40.03	54.00	-13.97	Vertical
9688.00	23.71	38.13	14.21	31.52	44.53	54.00	-9.47	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	29.69	31.81	8.63	32.11	38.02	54.00	-15.98	Horizontal
7266.00	23.35	36.28	11.69	31.94	39.38	54.00	-14.62	Horizontal
9688.00	22.64	38.13	14.21	31.52	43.46	54.00	-10.54	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	802.11n(HT40)			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	40.59	31.85	8.66	32.	12	48.98	74.0	00	-25.02	Vertical	
7311.00	35.07	36.37	11.71	31.91		51.24	74.0	00	-22.76	Vertical	
9748.00	34.29	38.27	14.25	31.5	31.56 55.2		74.00		-18.75	Vertical	
12185.00	*						74.00			Vertical	
14622.00	*						74.00			Vertical	
17059.00	*						74.0	00		Vertical	
4874.00	40.88	31.85	8.66	32.	12	49.27	74.0	00	-24.73	Horizontal	
7311.00	33.62	36.37	11.71	31.9	91	49.79	74.0	00	-24.21	Horizontal	
9748.00	34.14	38.27	14.25	31.5	56	55.10	74.0	00	-18.90	Horizontal	
12185.00	*						74.0	00		Horizontal	
14622.00	*						74.0	00		Horizontal	
17059.00	*						74.0	00		Horizontal	
Average val											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization	
4874.00	31.35	31.85	8.66	32.1	12	39.74	54.0	00	-14.26	Vertical	
7311.00	23.36	36.37	11.71	31.9	91	39.53	54.0	00	-14.47	Vertical	
9748.00	23.52	38.27	14.25	31.5	56	44.48	54.0	00	-9.52	Vertical	
12185.00	*						54.0	00		Vertical	
14622.00	*						54.0	00		Vertical	
17059.00	*						54.0	00		Vertical	
4874.00	30.92	31.85	8.66	32.′	12	39.31	54.0	00	-14.69	Horizontal	
7311.00	22.68	36.37	11.71	31.9	91	38.85	54.0	00	-15.15	Horizontal	
9748.00	23.83	38.27	14.25	31.5	56	44.79	54.0	00	-9.21	Horizontal	
12185.00	*						54.0	00		Horizontal	
14622.00	*						54.0	00		Horizontal	
17059.00	*						54.0	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:		Highest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	47.02	31.88	8.68	32.13	55.45	74.00	-18.55	Vertical
7356.00	36.32	36.45	11.75	31.86	52.66	74.00	-21.34	Vertical
9808.00	37.99	38.43	14.29	31.68	59.03	74.00	-14.97	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	45.99	31.88	8.68	32.13	54.42	74.00	-19.58	Horizontal
7356.00	35.05	36.45	11.75	31.86	51.39	74.00	-22.61	Horizontal
9808.00	34.09	38.43	14.29	31.68	55.13	74.00	-18.87	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	37.76	31.88	8.68	32.13	46.19	54.00	-7.81	Vertical
7356.00	26.19	36.45	11.75	31.86	42.53	54.00	-11.47	Vertical
9808.00	26.46	38.43	14.29	31.68	47.50	54.00	-6.50	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	36.24	31.88	8.68	32.13	44.67	54.00	-9.33	Horizontal
7356.00	24.40	36.45	11.75	31.86	40.74	54.00	-13.26	Horizontal
9808.00	23.32	38.43	14.29	31.68	44.36	54.00	-9.64	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

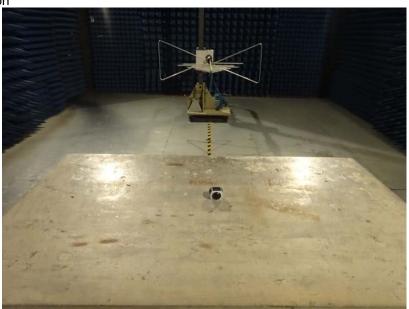
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

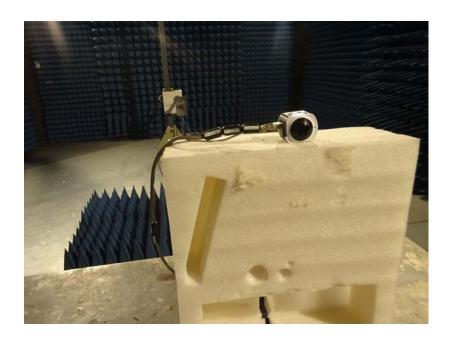
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



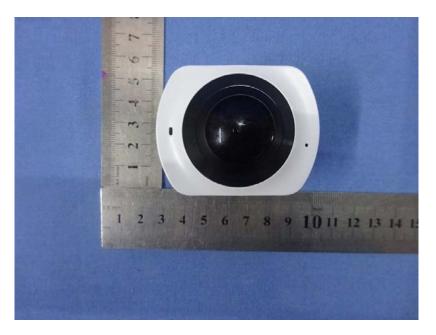


9 EUT Constructional Details







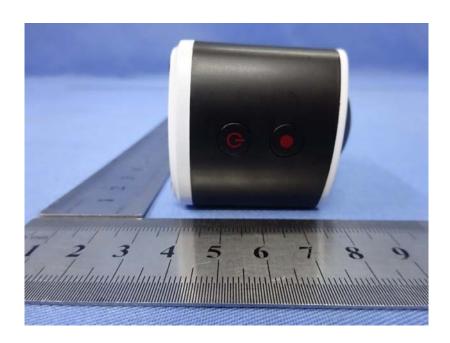


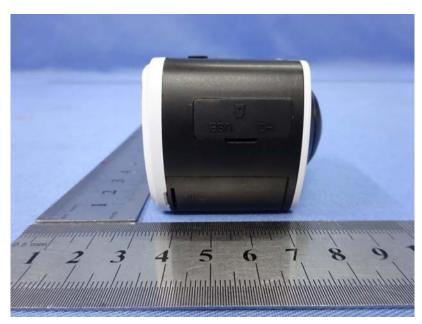






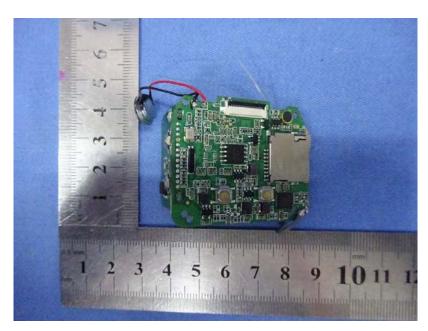




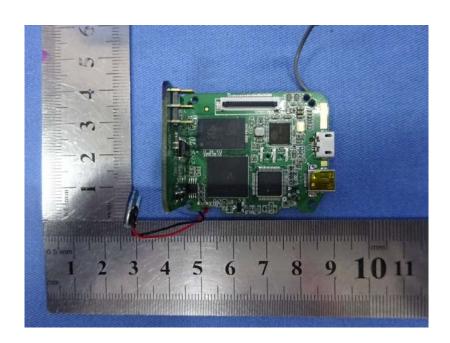


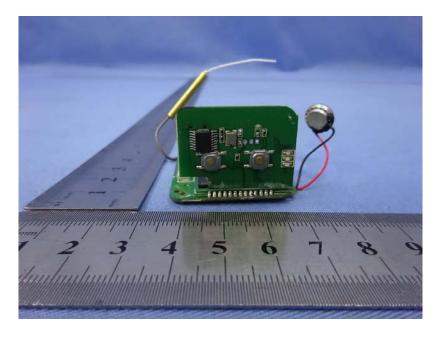


















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