

Global United Technology Services Co., Ltd.

Report No.: GTSE15110202501

FCC Report (WIFI)

Applicant: GEP TECHNOLOGY CO., LIMITED

Address of Applicant: RM2103 EASEY COMMERCIAL BUILDING 253-261

HENNESSY ROAD, WANCHAI, Hong Kong

Equipment Under Test (EUT)

Product Name: IP CAMERA

Model No.: C2, SC101WM, C4, C6, C5, C7, C8

FCC ID: ZRC-C2

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

Date of sample receipt: November 18, 2015

Date of Test: November 19-25, 2015

Date of report issued: November 26, 2015

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	November 26, 2015	Original

Prepared By:	m. 600	Date:	November 26, 2015
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Project Engineer

Check By: Date: November 26, 2015

Reviewer



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4 Test Summary

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

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

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
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 Client Information

Applicant:	GEP TECHNOLOGY CO., LIMITED	
Address of Applicant:	RM2103 EASEY COMMERCIAL BUILDING 253-261 HENNESSY ROAD, WANCHAI, Hong Kong	
Manufacturer/Factory:	GEP TECHNOLOGY CO LIMITED	
Address of Manufacturer/Factory:	5/F,A2 Building,3rd division of DongHua Industrial Zone,Gushu,Xixiang town,Baoan area,Shenzhen china	

5.2 General Description of EUT

IP CAMERA
C2, SC101WM, C4, C6, C5, C7, C8
802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
802.11n(HT40): 2422MHz~2452MHz
802.11b/802.11g /802.11n(HT20): 11
802.11n(HT40): 7
5MHz
802.11b: Direct Sequence Spread Spectrum (DSSS)
802.11g/802.11n(H20)/802.11n(H40):
Orthogonal Frequency Division Multiplexing (OFDM)
Integral antenna
2.0dBi(declare by Applicant)
DC 5V,1A



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

Note:

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

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

5.3 Test mode

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

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

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

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

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
Apple	PC	A1278	C1MN99ERDTY3	DoC
DELTA	ADAPTER	ADP-60ADT	N/A	DoC

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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 28, 2013.

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

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

5.6 **Test Location**

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



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	Mar. 27 2015	Mar. 26 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun. 30 2015	Jun. 29 2016	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016	
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	
17	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016	
18	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016	

Cond	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2015	Sep. 06 2016		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016		
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016		

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7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

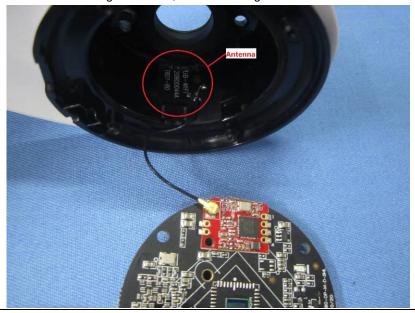
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

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





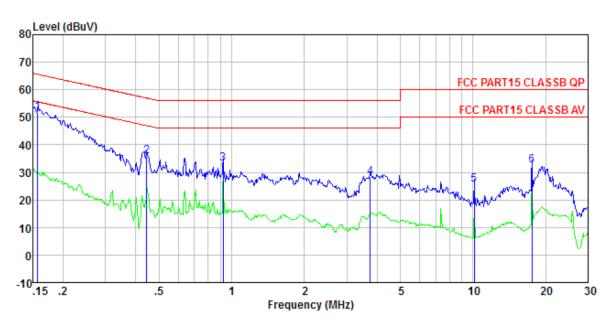
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,			
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
' '	Class B				
Class / Severity:	RBW=9KHz, VBW=30KHz, Sv	woon time-oute			
Receiver setup:	RBW=9KHZ, VBW=30KHZ, SV		ID 10		
Limit:	Frequency range (MHz)	Limit (c			
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.	<u> </u>		
Test setup:	Reference Plane				
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	ver		
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 according to ANSI C63.10::	all of the interface cab 2013 on conducted me	oles must be changed		
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details	i			
Test results:	Pass				



Measurement data

Line:



Site : Shielded room

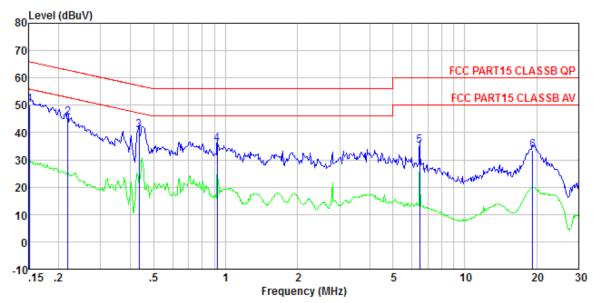
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 2025RF Test mode : Wifi mode Test Engineer: Rong

CSI	migineer.			LICH	0-11-	T	0		
		Read			Cable		Over	ъ .	
	۲req	Level	Level	Factor	Loss	Line	Limit	Kemark	
	\mathtt{MHz}	dBu∀	dBu√	d₿	d₿	dBuV	d₿		
1	0.157	51.62	51.89	0.15	0.12	65.60	-13.71	QP	
2	0.444	35.55	35.78	0.12	0.11	56.98	-21.20	QΡ	
3		32.92		0.14	0.13		-22.81		
4	3.759		28. 33	0.19	0.15		-27.67		
5	10.125		25. 42		0.19		-34.58		
								-	
6	17.568	31.89	32. bU	0.49	0.22	6U. UU	-27.40	Ų٢	



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 2025RF Test mode : Wifi mode Test Engineer: Rong

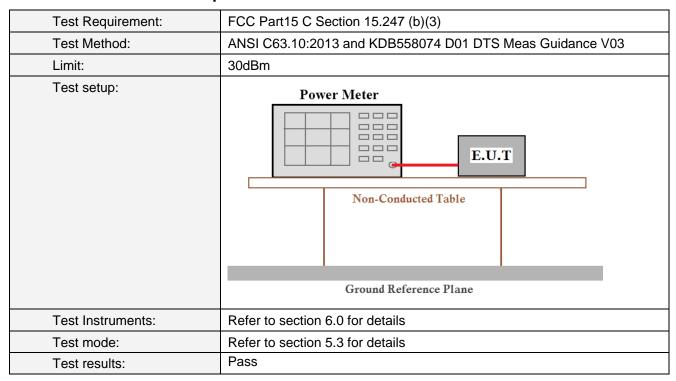
	Free	Read	Laval	LISN Factor			Over	Pamark
	rreq	rever	rever	ractor	LUSS	LINE	LIMIC	Kellidi K
	MHz	dBu∀	dBuV	dB	dB	dBuV	dB	
1	0.152	50.06	50.25	0.07	0.12	65.91	-15.66	QP
2	0.219	45.35	45.54	0.06	0.13	62.88	-17.34	QP
3	0.435	40.64	40.81	0.06	0.11	57.15	-16.34	QP
4	0.923	35.50	35.70	0.07	0.13	56.00	-20.30	QP
5	6.488	34.83	35.16	0.17	0.16	60.00	-24.84	QP
6	19. 224	32.85	33.55	0.48	0.22	60.00	-26.45	QP

Notes:

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



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Result
Lowest	11.47	10.08	10.94	9.16		
Middle	12.24	9.60	10.27	9.25	30.00	Pass
Highest	12.22	10.71	10.50	9.72		



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		

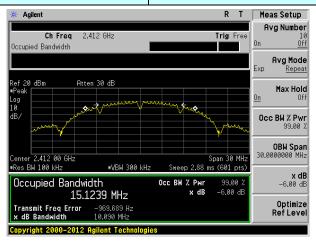
Measurement Data

Test CH		Limit(KHz)	Result			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII(KI IZ)	Nesult
Lowest	10.090	16.418	17.618	35.588		
Middle	10.079	16.421	17.639	35.852	>500	Pass
Highest	10.086	16.417	17.639	35.786		

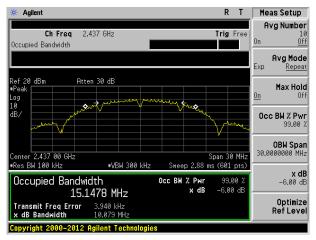
Test plot as follows:



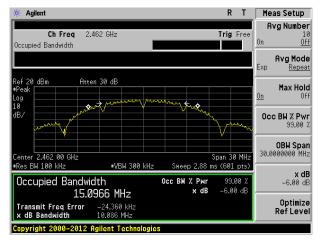
Test mode: 802.11b



Lowest channel



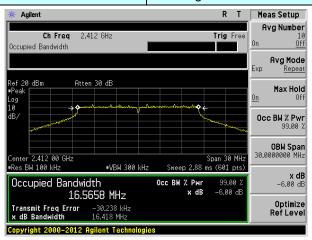
Middle channel



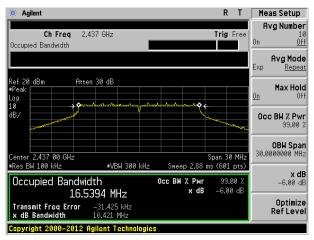
Highest channel



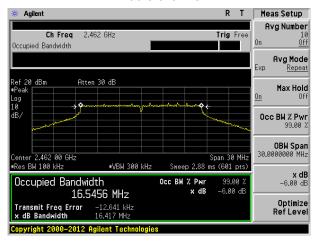
Test mode: 802.11g



Lowest channel



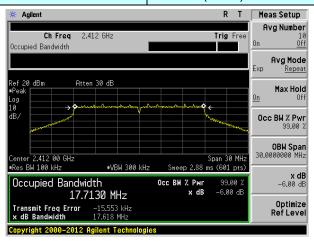
Middle channel



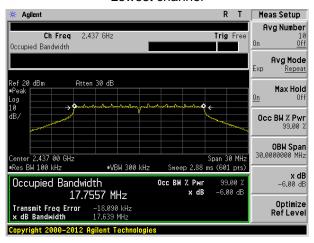
Highest channel



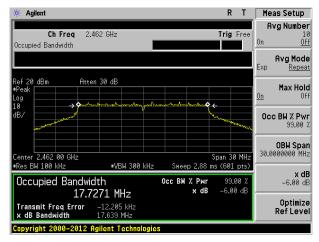
Test mode: 802.11n(HT20)



Lowest channel



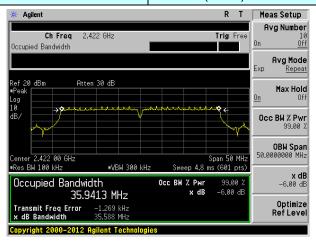
Middle channel



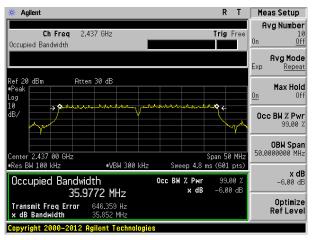
Highest channel



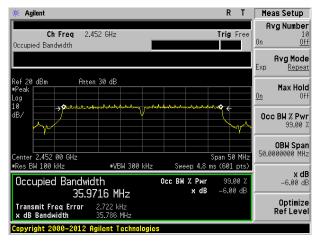
Test mode: 802.11n(HT40)



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		
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		

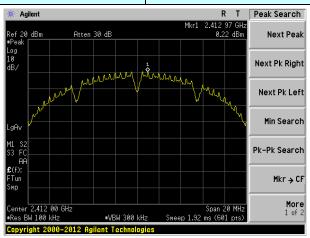
Measurement Data

Test CH		Power Spe	Limit(dBm/3kHz)	Result		
rest Cri	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LITIIL(UBITI/3KF12)	Kesuit
Lowest	0.22	-4.35	-3.98	-7.91		
Middle	0.72	-4.37	-3.97	-7.74	8.00	Pass
Highest	0.76	-4.13	-3.49	-7.43		

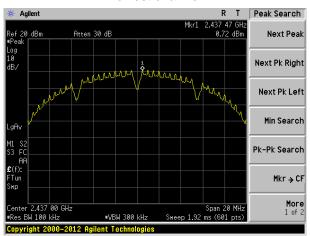


Test plot as follows:

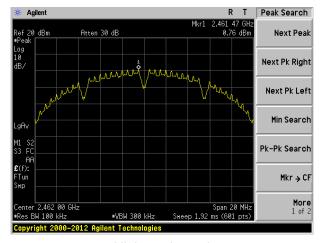
Test mode: 802.11b



Lowest channel



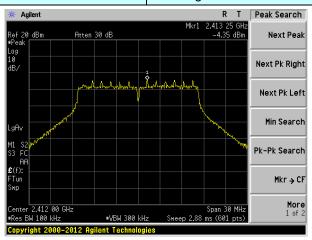
Middle channel



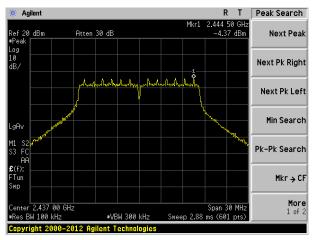
Highest channel



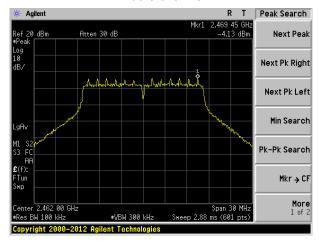
Test mode: 802.11g



Lowest channel



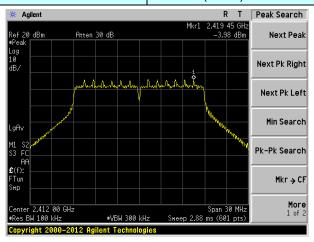
Middle channel



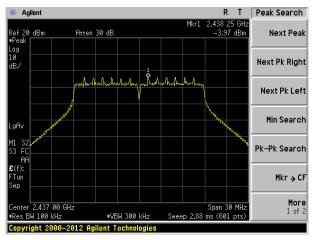
Highest channel



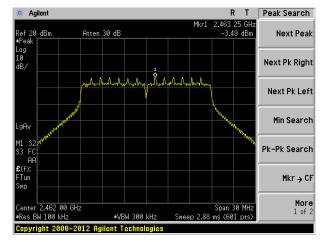
Test mode: 802.11n(HT20)



Lowest channel



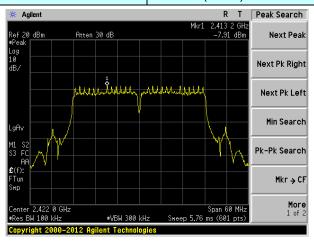
Middle channel



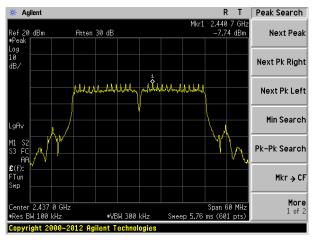
Highest channel



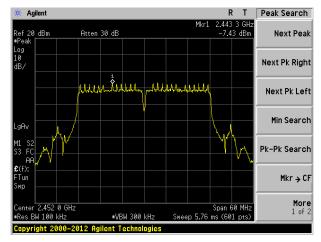
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



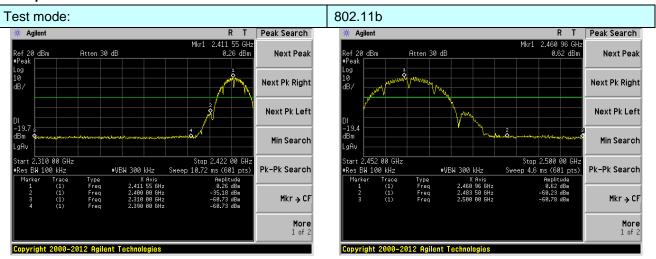
7.6 Band edges

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		



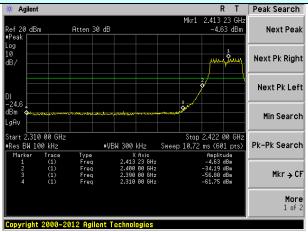
Test plot as follows:



Lowest channel

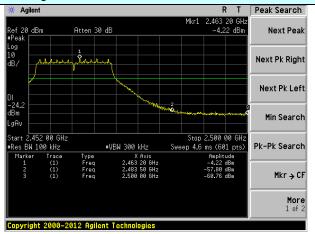
Highest channel

Test mode:



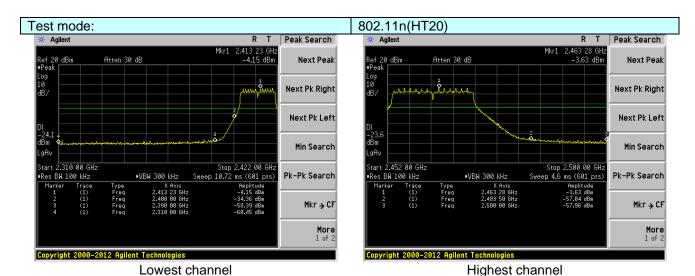
Lowest channel

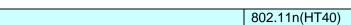
802.11g

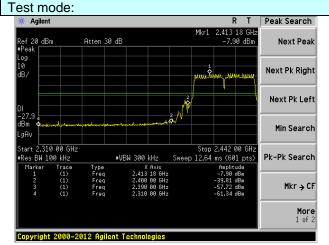


Highest channel













Highest channel

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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 bands was showed. Test site: Measurement Distance: 3m	nd'o (2240MLIT to							
Test Frequency Range: All of the restrict bands were tested, only the worst ban 2500MHz) data was showed. Test site: Measurement Distance: 3m	nd'o (2210MHz to							
2500MHz) data was showed. Test site: Measurement Distance: 3m	nd'a (2210N/LL= +a							
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							
Above 1GHz 54.00 74.00	Average Peak							
Test setup: Antenna Tower Horn Antenna Spectrum Analyzer Im Amplifier								
 Test Procedure: The EUT was placed on the top of a rotating table 1.5 the ground at a 3 meter camber. The table was rotate determine the position of the highest radiation. The EUT was set 3 meters away from the interference antenna, which was mounted on the top of a variable-tower. The antenna height is varied from one meter to four m ground to determine the maximum value of the field si horizontal and vertical polarizations of the antenna are measurement. For each suspected emission, the EUT was arranged and then the antenna was tuned to heights from 1 me and the rota table was turned from 0 degrees to 360 of the maximum reading. The test-receiver system was set to Peak Detect Fund Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 the limit specified, then testing could be stopped and of the EUT would be reported. Otherwise the emission have 10dB margin would be re-tested one by one using peak or average method as specified and then reported sheet. The radiation measurements are performed in X, Y, Z, And found the Y axis positioning which it is worse cas worst case mode is recorded in the report.	ed 360 degrees to ee-receiving e-height antenna meters above the strength. Both re set to make the d to its worst case eter to 4 meters degrees to find ection and DdB lower than the peak values ons that did not ing peak, quasited in a data							
Test Instruments: Refer to section 6.0 for details								
Test mode: Refer to section 5.3 for details								
Test results: Pass								

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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:	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 (dBuV/m	I I imit	Polarization
2390.00	51.33	27.59	5.38	34.0	1	50.29	74.00	-23.71	Horizontal
2400.00	60.24	27.58	5.39	34.0	1	59.20	74.00	-14.80	Horizontal
2390.00	52.99	27.59	5.38	34.0	1	51.95	74.00	-22.05	Vertical
2400.00	61.95	27.58	5.39	34.0	1	60.91	74.00	-13.09	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	38.18	27.59	5.38	34.0	1	37.14	54.00	-16.86	Horizontal
2400.00	46.44	27.58	5.39	34.0	1	45.40	54.00	-8.60	Horizontal
2390.00	39.98	27.59	5.38	34.0	1	38.94	54.00	-15.06	Vertical
2400.00	47.54	27.58	5.39	34.0	1	46.50	54.00	-7.50	Vertical
Test mode:		802.1	1b		Tes	st 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	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	54.04	27.53	5.47	33.92	53.12	74.00	-20.88	Vertical
2500.00	50.23	27.55	5.49	29.93	53.34	74.00	-20.66	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	38.50	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	36.53	27.55	5.49	29.93	39.64	54.00	-14.36	Vertical

Remark:

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

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802.11g

Test mode:

Report No.: GTSE15110202501

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	50.69	27.59	5.38	34.01	49.65	74.00	-24.35	Horizontal
2400.00	59.38	27.58	5.39	34.01	58.34	74.00	-15.66	Horizontal
2390.00	52.31	27.59	5.38	34.01	51.27	74.00	-22.73	Vertical
2400.00	60.92	27.58	5.39	34.01	59.88	74.00	-14.12	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	37.73	27.59	5.38	34.01	36.69	54.00	-17.31	Horizontal
2400.00	45.92	27.58	5.39	34.01	44.88	54.00	-9.12	Horizontal
2390.00	39.47	27.59	5.38	34.01	38.43	54.00	-15.57	Vertical
2400.00	46.97	27.58	5.39	34.01	45.93	54.00	-8.07	Vertical
				•	•			•
Test mode:		802.1	1g	Tes	st channel:	H	lighest	
Peak value								
Frequency	Read	Antenna	Cable	Preamp				
(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
			Loss	Factor			Limit	Polarization Horizontal
(MHz)	(dBuV)	(dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
(MHz) 2483.50	(dBuV) 50.94	(dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 50.02	(dBuV/m) 74.00	Limit (dB) -23.98	Horizontal
(MHz) 2483.50 2500.00	(dBuV) 50.94 47.07	(dB/m) 27.53 27.55	Loss (dB) 5.47 5.49	Factor (dB) 33.92 29.93	(dBuV/m) 50.02 50.18	74.00 74.00	Limit (dB) -23.98 -23.82	Horizontal Horizontal
(MHz) 2483.50 2500.00 2483.50	(dBuV) 50.94 47.07 53.00 49.40	(dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 50.02 50.18 52.08	74.00 74.00 74.00 74.00	Limit (dB) -23.98 -23.82 -21.92	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	(dBuV) 50.94 47.07 53.00 49.40	(dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 50.02 50.18 52.08	74.00 74.00 74.00 74.00	Limit (dB) -23.98 -23.82 -21.92	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency	(dBuV) 50.94 47.07 53.00 49.40 Iue: Read Level	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 50.02 50.18 52.08 52.51 Level	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Limit (dB) -23.98 -23.82 -21.92 -21.49 Over Limit	Horizontal Horizontal Vertical Vertical
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	(dBuV) 50.94 47.07 53.00 49.40 Iue: Read Level (dBuV)	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	Loss (dB) 5.47 5.49 5.49 Cable Loss (dB)	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 50.02 50.18 52.08 52.51 Level (dBuV/m)	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Limit (dB) -23.98 -23.82 -21.92 -21.49 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	(dBuV) 50.94 47.07 53.00 49.40 Iue: Read Level (dBuV) 37.95	(dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 50.02 50.18 52.08 52.51 Level (dBuV/m) 37.03	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Limit (dB) -23.98 -23.82 -21.92 -21.49 Over Limit (dB) -16.97	Horizontal Horizontal Vertical Vertical Polarization Horizontal

Test channel:

Global United Technology Services Co., Ltd.

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

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

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

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Test mode:

Report No.: GTSE15110202501

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	50.55	27.59	5.38	34.01	49.51	74.00	-24.49	Horizontal
2400.00	59.19	27.58	5.39	34.01	58.15	74.00	-15.85	Horizontal
2390.00	52.15	27.59	5.38	34.01	51.11	74.00	-22.89	Vertical
2400.00	60.69	27.58	5.39	34.01	59.65	74.00	-14.35	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	37.62	27.59	5.38	34.01	36.58	54.00	-17.42	Horizontal
2400.00	45.80	27.58	5.39	34.01	44.76	54.00	-9.24	Horizontal
2390.00	39.36	27.59	5.38	34.01	38.32	54.00	-15.68	Vertical
2400.00	46.84	27.58	5.39	34.01	45.80	54.00	-8.20	Vertical
Test mode:		802.1	1n(HT20)	Те	st channel:	F	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	50.73	27.53	5.47	33.92	49.81	74.00	-24.19	Horizontal
2500.00	46.91	27.55	5.49	29.93	50.02	74.00	-23.98	Horizontal
2483.50	52.76	27.53	5.47	33.92	51.84	74.00	-22.16	Vertical
2500.00	49.21	27.55	5.49	29.93	52.32	74.00	-21.68	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	37.82	27.53	5.47	33.92	36.90	54.00	-17.10	Horizontal
2500.00	34.14	27.55	5.49	29.93	37.25	54.00	-16.75	Horizontal
2483.50	39.67	27.53	5.47	33.92	38.75	54.00	-15.25	Vertical
2500.00	35.97	27.55	5.49	29.93	39.08	54.00	-14.92	Vertical
Remark:								

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen 518102

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

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

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Test mode:

Peak value:

Report No.: GTSE15110202501

Project No.: GTSE151102025RF

Lowest

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	49.93	27.59	5.38	34.01	48.89	74.00	-25.11	Horizontal
2400.00	58.37	27.58	5.39	34.01	57.33	74.00	-16.67	Horizontal
2390.00	51.49	27.59	5.38	34.01	50.45	74.00	-23.55	Vertical
2400.00	59.70	27.58	5.39	34.01	58.66	74.00	-15.34	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	37.19	27.59	5.38	34.01	36.15	54.00	-17.85	Horizontal
2400.00	45.30	27.58	5.39	34.01	44.26	54.00	-9.74	Horizontal
2390.00	38.87	27.59	5.38	34.01	37.83	54.00	-16.17	Vertical
2400.00	46.29	27.58	5.39	34.01	45.25	54.00	-8.75	Vertical
Test mode:		802.1	1n(HT40)	Tes	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	49.85	27.53	5.47	33.92	48.93	74.00	-25.07	Horizontal
2500.00	46.23	27.55	5.49	29.93	49.34	74.00	-24.66	Horizontal
2483.50	51.76	27.53	5.47	33.92	50.84	74.00	-23.16	Vertical
2500.00	48.42	27.55	5.49	29.93	51.53	74.00	-22.47	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	37.29	27.53	5.47	33.92	36.37	54.00	-17.63	Horizontal
2500.00	33.72	27.55	5.49	29.93	36.83	54.00	-17.17	Horizontal
2483.50	39.09	27.53	5.47	33.92	38.17	54.00	-15.83	Vertical
2500.00	35.54	27.55	5.49	29.93	38.65	54.00	-15.35	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.

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7.7 Spurious Emission

7.7.1 Conducted Emission Method

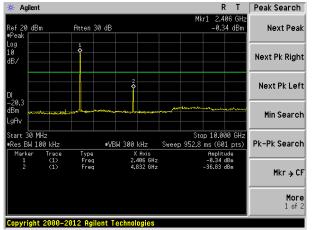
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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					



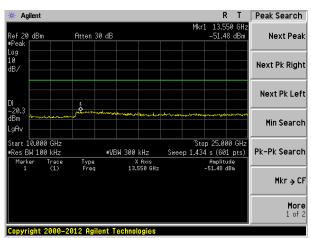
Test plot as follows:

Test mode: 802.11b

Lowest channel

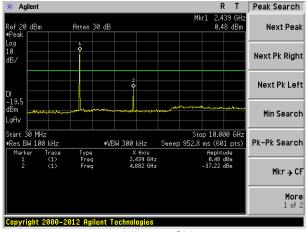


30MHz~10GHz

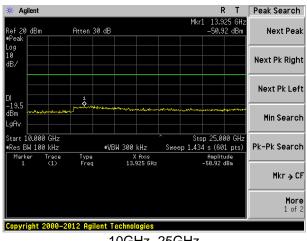


10GHz~25GHz

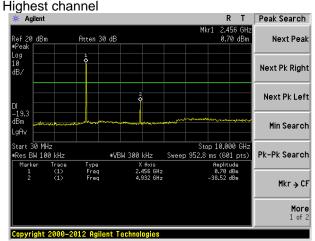
Middle channel



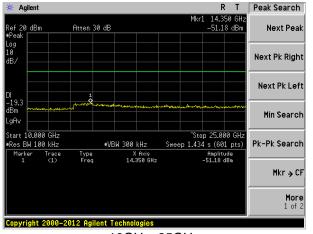
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



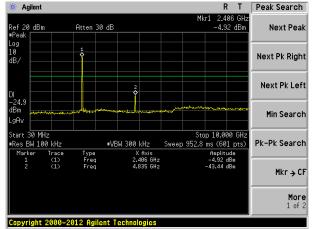
10GHz~25GHz



Test mode:

802.11g

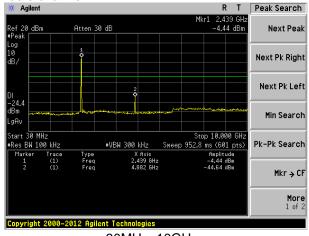
Lowest channel



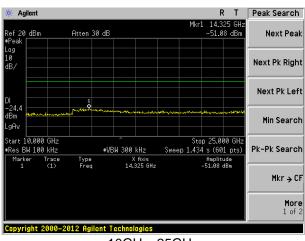
30MHz~10GHz

10GHz~25GHz

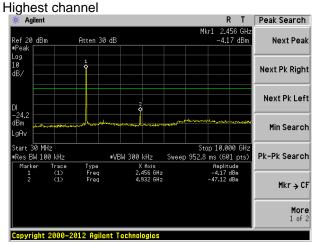
Middle channel



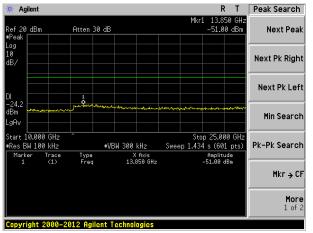
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R T Peak Search

Mkr → CF

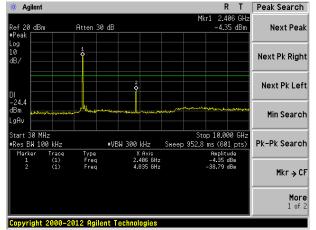
More 1 of 2

Test mode:

802.11n(HT20)

🗰 Agilent

Lowest channel

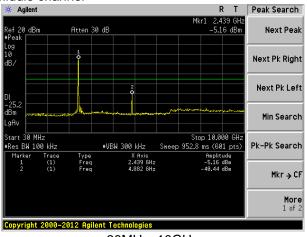


30MHz~10GHz

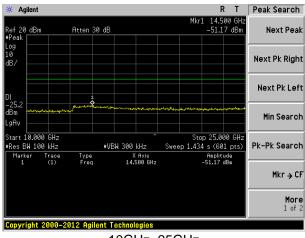
10GHz~25GHz

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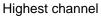
Middle channel

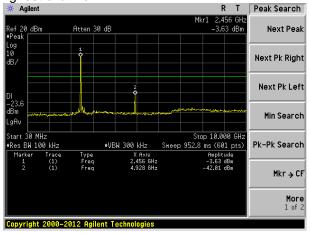


30MHz~10GHz

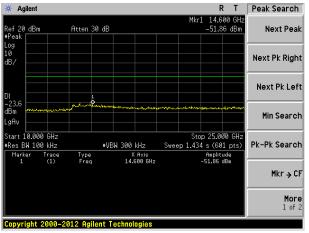


10GHz~25GHz





30MHz~10GHz



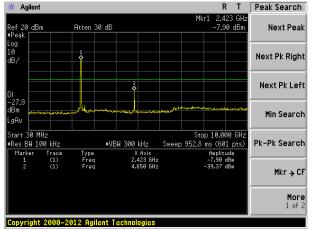
10GHz~25GHz



Test mode:

802.11n(HT40)

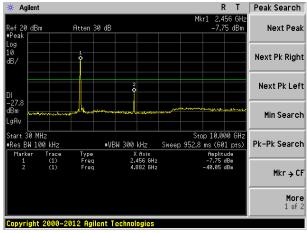
Lowest channel



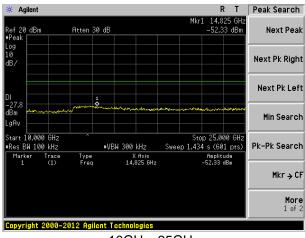
30MHz~10GHz

10GHz~25GHz

Middle channel

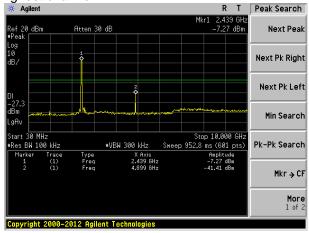


30MHz~10GHz

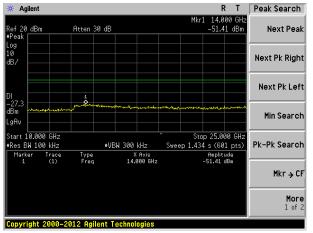


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.10:20	ANSI C63.10:2013								
Test Frequency Range:	30MHz to 25GHz									
Test site:	Measurement Distance: 3m Frequency Detector RBW VBW Value									
Receiver setup:	Frequency									
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz								
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz								
	Above 1GHZ	Above 1GHz RMS 1MHz 3MHz								
Limit:	Frequer	icy L	imit (dBuV	/m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak								
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak								
	A la 2112 4 C	211-	54.0	0	Average					
	Above 10	∍HZ	74.0	0	Peak					
	Tum V 0.8m Table O.8m A A hours 1 Cl. In	1 1		RF Test Receiver						
	Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer Amplifier									

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Test Procedure:	1. The EUT was placed on the top of a rotating table(0.8m for below 1GHz and 1.5 meters for above 1GHz) 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.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, 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
37.95	46.91	15.06	0.64	30.05	32.56	40.00	-7.44	Vertical
65.80	45.28	12.30	0.91	29.88	28.61	40.00	-11.39	Vertical
105.64	49.79	14.63	1.24	29.66	36.00	43.50	-7.50	Vertical
219.85	32.19	13.17	1.96	29.39	17.93	46.00	-28.07	Vertical
494.20	29.45	18.45	3.28	29.31	21.87	46.00	-24.13	Vertical
709.18	25.10	20.91	4.12	29.20	20.93	46.00	-25.07	Vertical
34.52	43.05	14.30	0.60	30.07	27.88	40.00	-12.12	Horizontal
54.26	43.46	15.05	0.81	29.96	29.36	40.00	-10.64	Horizontal
116.13	44.48	13.10	1.33	29.59	29.32	43.50	-14.18	Horizontal
243.38	33.07	14.08	2.09	29.59	19.65	46.00	-26.35	Horizontal
392.10	25.49	16.87	2.82	29.54	15.64	46.00	-30.36	Horizontal
818.83	23.65	22.24	4.54	29.18	21.25	46.00	-24.75	Horizontal

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■ 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	41.38	31.79	8.62	32.10	49.69	74.00	-24.31	Vertical
7236.00	34.91	36.19	11.68	31.97	50.81	74.00	-23.19	Vertical
9648.00	33.21	38.07	14.16	31.56	53.88	74.00	-20.12	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.88	31.79	8.62	32.10	48.19	74.00	-25.81	Horizontal
7236.00	34.57	36.19	11.68	31.97	50.47	74.00	-23.53	Horizontal
9648.00	32.75	38.07	14.16	31.56	53.42	74.00	-20.58	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	30.38	31.79	8.62	32.10	38.69	54.00	-15.31	Vertical
7236.00	23.75	36.19	11.68	31.97	39.65	54.00	-14.35	Vertical
9648.00	23.53	38.07	14.16	31.56	44.20	54.00	-9.80	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.36	31.79	8.62	32.10	37.67	54.00	-16.33	Horizontal
7236.00	23.13	36.19	11.68	31.97	39.03	54.00	-14.97	Horizontal
9648.00	22.48	38.07	14.16	31.56	43.15	54.00	-10.85	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		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	40.25	31.85	8.66	32.12	48.64	74.00	-25.36	Vertical
7311.00	34.86	36.37	11.71	31.91	51.03	74.00	-22.97	Vertical
9748.00	34.14	38.27	14.25	31.56	55.10	74.00	-18.90	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.59	31.85	8.66	32.12	48.98	74.00	-25.02	Horizontal
7311.00	33.43	36.37	11.71	31.91	49.60	74.00	-24.40	Horizontal
9748.00	34.00	38.27	14.25	31.56	54.96	74.00	-19.04	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	31.03	31.85	8.66	32.12	39.42	54.00	-14.58	Vertical
7311.00	23.16	36.37	11.71	31.91	39.33	54.00	-14.67	Vertical
9748.00	23.38	38.27	14.25	31.56	44.34	54.00	-9.66	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.66	31.85	8.66	32.12	39.05	54.00	-14.95	Horizontal
7311.00	22.50	36.37	11.71	31.91	38.67	54.00	-15.33	Horizontal
9748.00	23.70	38.27	14.25	31.56	44.66	54.00	-9.34	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:	Highe	est	
Peak value:						<u> </u>		
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	46.43	31.90	8.70	32.15	54.88	74.00	-19.12	Vertical
7386.00	35.95	36.49	11.76	31.83	52.37	74.00	-21.63	Vertical
9848.00	37.73	38.62	14.31	31.77	58.89	74.00	-15.11	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.50	31.90	8.70	32.15	53.95	74.00	-20.05	Horizontal
7386.00	34.72	36.49	11.76	31.83	51.14	74.00	-22.86	Horizontal
9848.00	33.85	38.62	14.31	31.77	55.01	74.00	-18.99	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	37.23	31.90	8.70	32.15	45.68	54.00	-8.32	Vertical
7386.00	25.83	36.49	11.76	31.83	42.25	54.00	-11.75	Vertical
9848.00	26.20	38.62	14.31	31.77	47.36	54.00	-6.64	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.78	31.90	8.70	32.15	44.23	54.00	-9.77	Horizontal
7386.00	24.09	36.49	11.76	31.83	40.51	54.00	-13.49	Horizontal
9848.00	23.08	38.62	14.31	31.77	44.24	54.00	-9.76	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	40.91	31.79	8.62	32.10	49.22	74.00	-24.78	Vertical
7236.00	34.61	36.19	11.68	31.97	50.51	74.00	-23.49	Vertical
9648.00	32.99	38.07	14.16	31.56	53.66	74.00	-20.34	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.48	31.79	8.62	32.10	47.79	74.00	-26.21	Horizontal
7236.00	34.31	36.19	11.68	31.97	50.21	74.00	-23.79	Horizontal
9648.00	32.55	38.07	14.16	31.56	53.22	74.00	-20.78	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	29.94	31.79	8.62	32.10	38.25	54.00	-15.75	Vertical
7236.00	23.46	36.19	11.68	31.97	39.36	54.00	-14.64	Vertical
9648.00	23.33	38.07	14.16	31.56	44.00	54.00	-10.00	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.99	31.79	8.62	32.10	37.30	54.00	-16.70	Horizontal
7236.00	22.88	36.19	11.68	31.97	38.78	54.00	-15.22	Horizontal
9648.00	22.29	38.07	14.16	31.56	42.96	54.00	-11.04	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	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.86	31.85	8.66	32.12	48.25	74.00	-25.75	Vertical
7311.00	34.61	36.37	11.71	31.91	50.78	74.00	-23.22	Vertical
9748.00	33.96	38.27	14.25	31.56	54.92	74.00	-19.08	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.26	31.85	8.66	32.12	48.65	74.00	-25.35	Horizontal
7311.00	33.21	36.37	11.71	31.91	49.38	74.00	-24.62	Horizontal
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.67	31.85	8.66	32.12	39.06	54.00	-14.94	Vertical
7311.00	22.91	36.37	11.71	31.91	39.08	54.00	-14.92	Vertical
9748.00	23.21	38.27	14.25	31.56	44.17	54.00	-9.83	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.34	31.85	8.66	32.12	38.73	54.00	-15.27	Horizontal
7311.00	22.29	36.37	11.71	31.91	38.46	54.00	-15.54	Horizontal
9748.00	23.54	38.27	14.25	31.56	44.50	54.00	-9.50	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		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	45.75	31.90	8.70	32.15	54.20	74.00	-19.80	Vertical
7386.00	35.52	36.49	11.76	31.83	51.94	74.00	-22.06	Vertical
9848.00	37.42	38.62	14.31	31.77	58.58	74.00	-15.42	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.92	31.90	8.70	32.15	53.37	74.00	-20.63	Horizontal
7386.00	34.35	36.49	11.76	31.83	50.77	74.00	-23.23	Horizontal
9848.00	33.56	38.62	14.31	31.77	54.72	74.00	-19.28	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)	Pream Facto (dB)	. 000	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.60	31.90	8.70	32.15	45.05	54.00	-8.95	Vertical
7386.00	25.41	36.49	11.76	31.83	41.83	54.00	-12.17	Vertical
9848.00	25.91	38.62	14.31	31.77	47.07	54.00	-6.93	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.24	31.90	8.70	32.15	43.69	54.00	-10.31	Horizontal
7386.00	23.72	36.49	11.76	31.83	40.14	54.00	-13.86	Horizontal
9848.00	22.81	38.62	14.31	31.77	43.97	54.00	-10.03	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Te	st channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 4/4	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.27	31.79	8.62	32.10	48.58	74.00	-25.42	Vertical
7236.00	34.20	36.19	11.68	31.97	50.10	74.00	-23.90	Vertical
9648.00	32.70	38.07	14.16	31.56	53.37	74.00	-20.63	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.94	31.79	8.62	32.10	47.25	74.00	-26.75	Horizontal
7236.00	33.95	36.19	11.68	31.97	49.85	74.00	-24.15	Horizontal
9648.00	32.28	38.07	14.16	31.56	52.95	74.00	-21.05	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)	1 404	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.35	31.79	8.62	32.10	37.66	54.00	-16.34	Vertical
7236.00	23.07	36.19	11.68	31.97	38.97	54.00	-15.03	Vertical
9648.00	23.05	38.07	14.16	31.56	43.72	54.00	-10.28	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.48	31.79	8.62	32.10	36.79	54.00	-17.21	Horizontal
7236.00	22.54	36.19	11.68	31.97	38.44	54.00	-15.56	Horizontal
9648.00	22.03	38.07	14.16	31.56	42.70	54.00	-11.30	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Tes	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.33	31.85	8.66	32.12	47.72	74.00	-26.28	Vertical
7311.00	34.28	36.37	11.71	31.91	50.45	74.00	-23.55	Vertical
9748.00	33.72	38.27	14.25	31.56	54.68	74.00	-19.32	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.81	31.85	8.66	32.12	48.20	74.00	-25.80	Horizontal
7311.00	32.92	36.37	11.71	31.91	49.09	74.00	-24.91	Horizontal
9748.00	33.61	38.27	14.25	31.56	54.57	74.00	-19.43	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.18	31.85	8.66	32.12	38.57	54.00	-15.43	Vertical
7311.00	22.59	36.37	11.71	31.91	38.76	54.00	-15.24	Vertical
9748.00	22.98	38.27	14.25	31.56	43.94	54.00	-10.06	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.93	31.85	8.66	32.12	38.32	54.00	-15.68	Horizontal
7311.00	22.01	36.37	11.71	31.91	38.18	54.00	-15.82	Horizontal
9748.00	23.33	38.27	14.25	31.56	44.29	54.00	-9.71	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	44.84	31.90	8.70	32.15	53.29	74.00	-20.71	Vertical
7386.00	34.94	36.49	11.76	31.83	51.36	74.00	-22.64	Vertical
9848.00	37.01	38.62	14.31	31.77	58.17	74.00	-15.83	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.16	31.90	8.70	32.15	52.61	74.00	-21.39	Horizontal
7386.00	33.85	36.49	11.76	31.83	50.27	74.00	-23.73	Horizontal
9848.00	33.18	38.62	14.31	31.77	54.34	74.00	-19.66	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.76	31.90	8.70	32.15	44.21	54.00	-9.79	Vertical
7386.00	24.86	36.49	11.76	31.83	41.28	54.00	-12.72	Vertical
9848.00	25.52	38.62	14.31	31.77	46.68	54.00	-7.32	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.52	31.90	8.70	32.15	42.97	54.00	-11.03	Horizontal
7386.00	23.24	36.49	11.76	31.83	39.66	54.00	-14.34	Horizontal
9848.00	22.44	38.62	14.31	31.77	43.60	54.00	-10.40	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(HT40)			Test	channel:		Lowe	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
4844.00	39.22	31.81	8.63	32.11		47.55	74.00		-26.45	Vertical
7266.00	33.54	36.28	11.69	31.94		49.57	74.00		-24.43	Vertical
9688.00	32.23	38.13	14.21	31.52		53.05	74.00		-20.95	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	38.06	31.81	8.63	32.11		46.39	74.	00	-27.61	Horizontal
7266.00	33.38	36.28	11.69	31.94		49.41	74.	00	-24.59	Horizontal
9688.00	31.85	38.13	14.21	31.52		52.67	74.	00	-21.33	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	28.39	31.81	8.63	32.11	36.72	54.00	-17.28	Vertical
7266.00	22.43	36.28	11.69	31.94	38.46	54.00	-15.54	Vertical
9688.00	22.60	38.13	14.21	31.52	43.42	54.00	-10.58	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.65	31.81	8.63	32.11	35.98	54.00	-18.02	Horizontal
7266.00	21.98	36.28	11.69	31.94	38.01	54.00	-15.99	Horizontal
9688.00	21.61	38.13	14.21	31.52	42.43	54.00	-11.57	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		
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	38.46	31.85	8.66	32.12		46.85	74.00		-27.15	Vertical
7311.00	33.73	36.37	11.71	31.91		49.90	74.0	00	-24.10	Vertical
9748.00	33.33	38.27	14.25	31.56		54.29	74.00		-19.71	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	39.08	31.85	8.66	32.12		47.47	74.00		-26.53	Horizontal
7311.00	32.44	36.37	11.71	31	.91	48.61	74.00		-25.39	Horizontal
9748.00	33.25	38.27	14.25	31.56		54.21	74.00		-19.79	Horizontal
12185.00	*						74.00			Horizontal
14622.00	*						74.00			Horizontal
17059.00	*						74.0	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.39	31.85	8.66	32	2.12	37.78	54.0	00	-16.22	Vertical
7311.00	22.07	36.37	11.71	31	.91	38.24	54.0	00	-15.76	Vertical
9748.00	22.60	38.27	14.25	31	.56	43.56	54.0	00	-10.44	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.24	31.85	8.66	32	2.12	37.63	54.0	00	-16.37	Horizontal
7311.00	21.54	36.37	11.71	31.91		37.71	54.0	00	-16.29	Horizontal
9748.00	22.98	38.27	14.25	31	.56	43.94	54.0	00	-10.06	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)	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	43.35	31.88	8.68	32.13	51.78	74.00	-22.22	Vertical
7356.00	34.00	36.45	11.75	31.86	50.34	74.00	-23.66	Vertical
9808.00	36.34	38.43	14.29	31.68	57.38	74.00	-16.62	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.90	31.88	8.68	32.13	51.33	74.00	-22.67	Horizontal
7356.00	33.02	36.45	11.75	31.86	49.36	74.00	-24.64	Horizontal
9808.00	32.56	38.43	14.29	31.68	53.60	74.00	-20.40	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.39	31.88	8.68	32.13	42.82	54.00	-11.18	Vertical
7356.00	23.95	36.45	11.75	31.86	40.29	54.00	-13.71	Vertical
9808.00	24.87	38.43	14.29	31.68	45.91	54.00	-8.09	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.34	31.88	8.68	32.13	41.77	54.00	-12.23	Horizontal
7356.00	22.44	36.45	11.75	31.86	38.78	54.00	-15.22	Horizontal
9808.00	21.85	38.43	14.29	31.68	42.89	54.00	-11.11	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

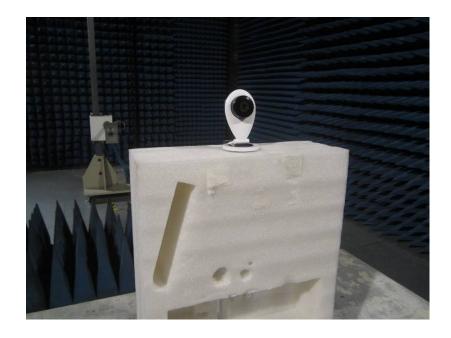
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



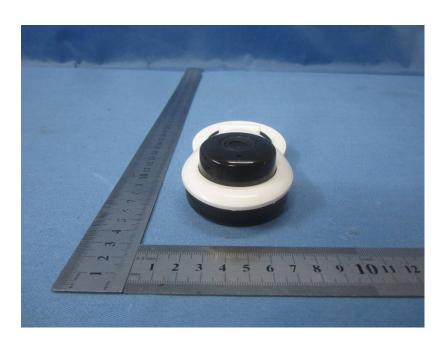


9 EUT Constructional Details





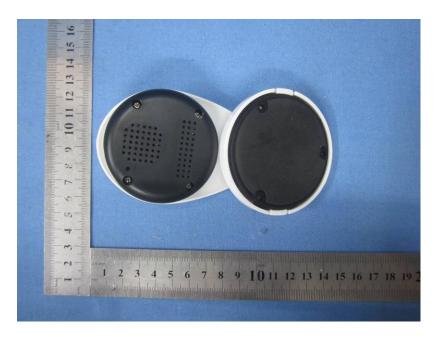




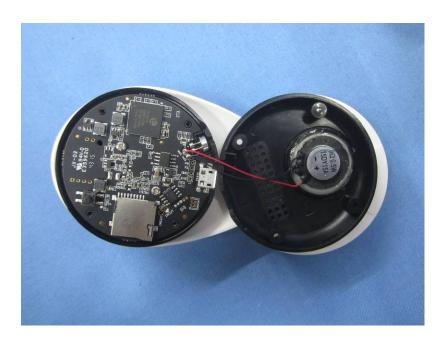






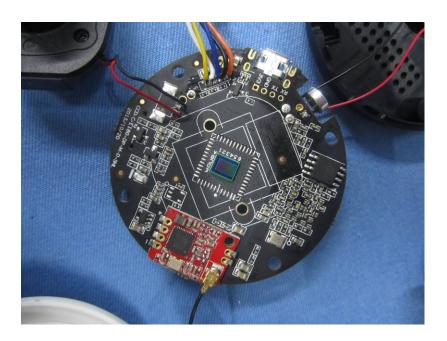


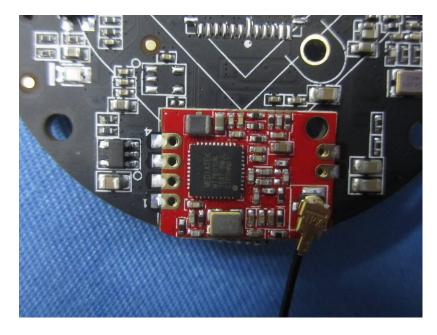




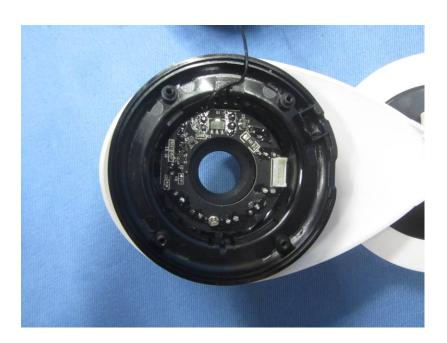








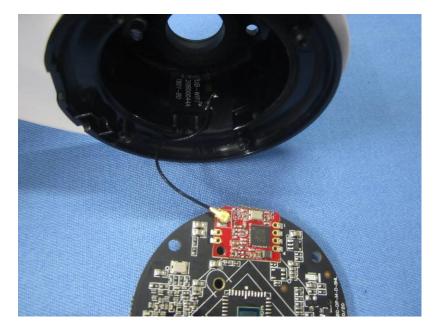












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