

Global United Technology Services Co., Ltd.

Report No.: GTS201608000227E02

FCC Report (WIFI)

Applicant: Distribuidora Sinn, S.A. de C.V.

Address of Applicant: Lago Zurich No.219 Piso 12, Colonia Ampliacion Granada,

Del. Miguel Hidalgo, Mexico City, Mexico

Equipment Under Test (EUT)

Product Name: 3G Smartphone

Model No.: R455

Trade mark: RINNO

FCC ID: 2AGTFR455

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

Date of sample receipt: August 17, 2016

Date of Test: August 18-24, 2016

Date of report issued: August 25, 2016

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

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

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



2 Version

Version No.	Date	Description
00	August 25, 2016	Original

Bornocioci	Date:	August 25, 2016	
Project Engineer			
Andy w	Date:	August 25, 2016	
	1	Project Engineer Andy W Date:	Project Engineer Date: August 25, 2016



3 Contents

			Page
1	CO/	/ER PAGE	1
2	VER	RSION	2
3	100	NTENTS	3
4			### Page ### ### ### ### ### ### ### ### ### #
4	IES	OI SUMMARY	4
5	GEN	NERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2		
	5.3		
	5.4		
	5.5		
	5.6	TEST LOCATION	7
6	TES	ST INSTRUMENTS LIST	8
7	TES	ST RESULTS AND MEASUREMENT DATA	9
	7.1	ANTENNA REQUIREMENT	9
	7.2		
	7.3		
	7.4		
	7.5		
	7.6		
	7.6. ² 7.6.2		
	7.0.2 7.7		
	7.7.		
	7.7.2		
8	TES	ST SETUP PHOTO	52
9	FUT	CONSTRUCTIONAL DETAILS	53



4 Test Summary

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

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

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

Measurement Uncertainty

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



5 General Information

5.1 Client Information

Applicant:	Distribuidora Sinn, S.A. de C.V.	
Address of Applicant:	Lago Zurich No.219 Piso 12, Colonia Ampliacion Granada, Del. Miguel Hidalgo, Mexico City, Mexico	
Manufacturer:	ZTECH communication (shenzhen) Co.,Ltd	
Address of Manufacturer:	7 floor. D block.ZHIGU .XIxiang,BAOAN District, ShenZhen, China, 518000.	

5.2 General Description of EUT

Product Name:	3G Smartphone
Model No.:	R455
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:	1.0dBi
Power supply:	Adapter
	Model No.: R455-A
	Input: AC 100-240V, 50/60Hz, 0.15A
	Output: DC 5.0V, 1.0A
	or
	DC 3.7V 1800mAh 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:

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

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:

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

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

5.4 Description of Support Units

None.



5.5 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

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

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 26 2016	Mar. 25 2017			
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017			
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017			
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017			
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017			
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017			
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017			
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017			
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017			
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017			
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017			

Cond	ducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	May.16 2014	May.15 2019
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 29 2016	June 28 2017
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 29 2016	June 28 2017
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 29 2016	June 28 2017
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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 1.0dBi





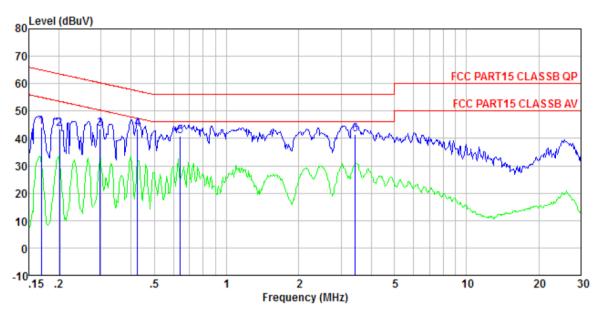
7.2 Conducted Emissions

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



Measurement data

Line:



Site : Shielded room

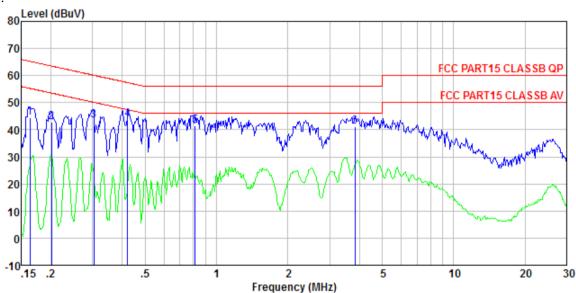
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0227 Test mode : WiFi mode Test Engineer: Boy

000	Freq	Read		Cable Loss 1	LISN Factor			Remark
	MHz	dBuV	dBuV			dBuV	dB	
1 2 3 4 5	0. 297 0. 426	43.35 43.16 43.15 40.70	43.37 43.38 40.96	0.13 0.10 0.11 0.13	0.11 0.12 0.13	63.54 60.32 57.33 56.00	-19.92 -16.95 -13.95 -15.04	QP QP QP QP



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0227 Test mode : WiFi mode Test Engineer: Boy

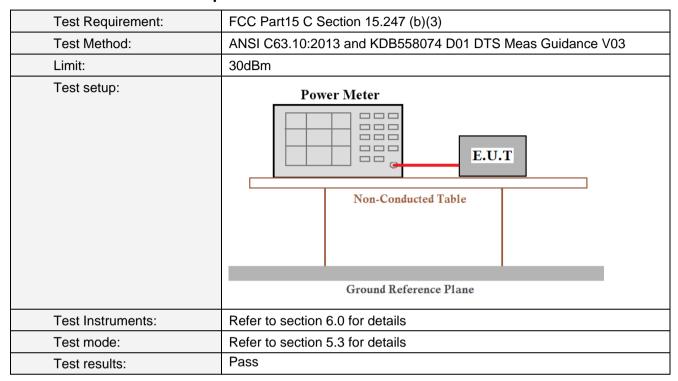
	Freq	Řead Level			LISN Factor			Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1 2 3 4 5	0. 202 0. 303 0. 421 0. 813	43.15 43.58 41.18	42.65 43.31 43.75 41.38	0.13 0.10 0.11 0.13	0.07 0.07 0.06 0.06 0.07 0.14	63.54 60.15 57.42 56.00	-20.89 -16.84 -13.67 -14.62	QP QP QP QP

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			
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesull	
Lowest	17.70	14.16	14.42	14.07			
Middle	17.54	15.36	14.85	14.78	30.00	Pass	
Highest	17.75	15.68	14.88	14.95			



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

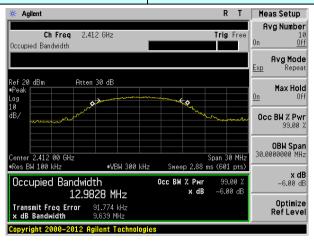
Measurement Data

Test CH		Channel E	Limit(KHz)	Result			
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI IZ)	Nesuit	
Lowest	9.639	16.337	16.129	35.271			
Middle	10.137	16.030	16.932	35.280	>500	Pass	
Highest	9.761	16.014	16.355	35.285			

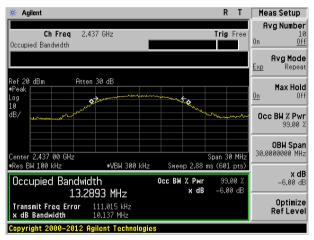
Test plot as follows:



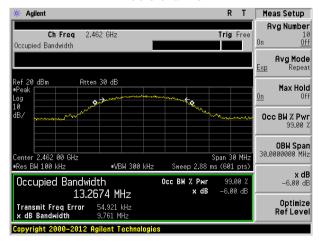
Test mode: 802.11b



Lowest channel



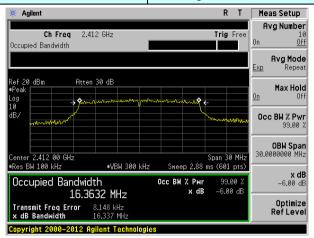
Middle channel



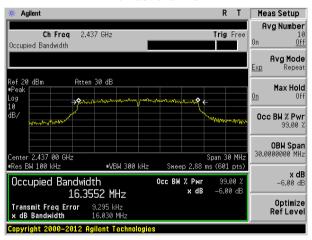
Highest channel



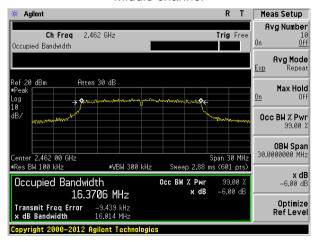
Test mode: 802.11g



Lowest channel



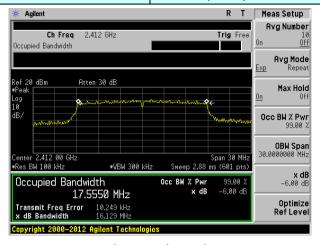
Middle channel



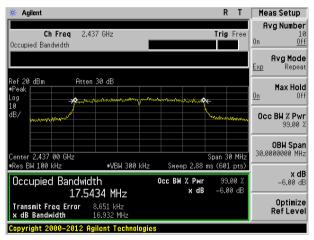
Highest channel



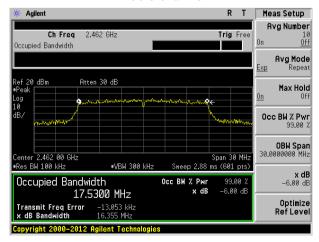
Test mode: 802.11n(HT20)



Lowest channel



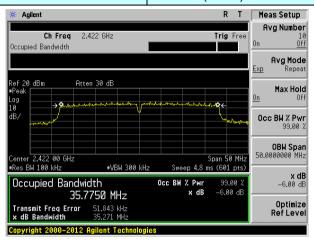
Middle channel



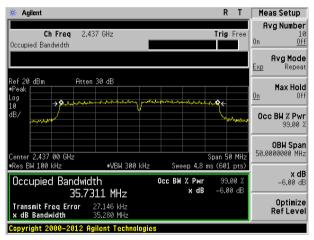
Highest channel



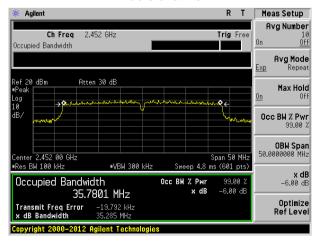
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm/3kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

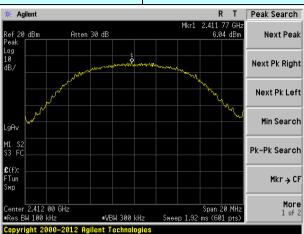
Measurement Data

Test CH		Power Spe	Limit	Result			
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Nesult	
Lowest	6.04	1.74	1.54	-0.75		Pass	
Middle	6.17	3.04	2.98	-0.51	8.00		
Highest	6.49	3.24	2.33	-0.35			

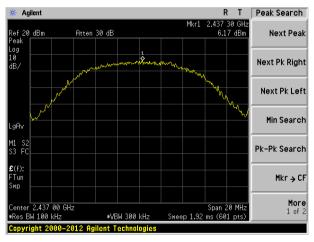


Test plot as follows:

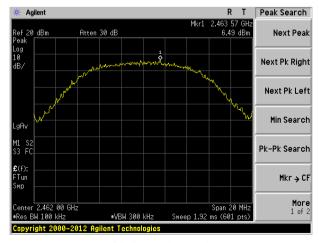
Test mode: 802.11b



Lowest channel



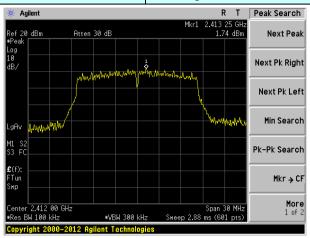
Middle channel



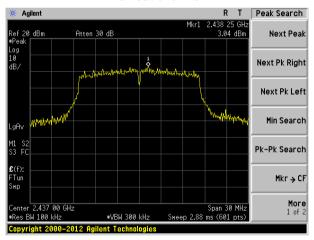
Highest channel



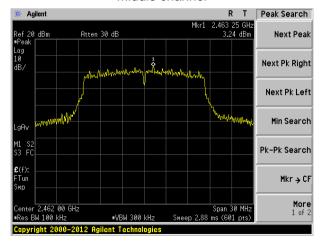
Test mode: 802.11g



Lowest channel



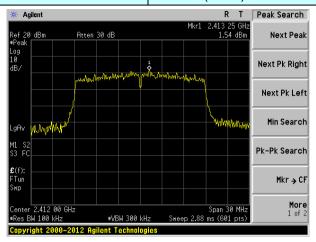
Middle channel



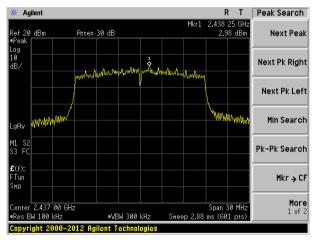
Highest channel



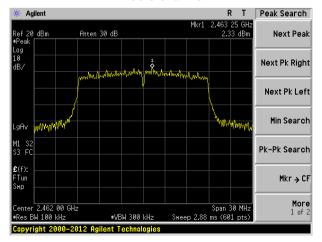
Test mode: 802.11n(HT20)



Lowest channel



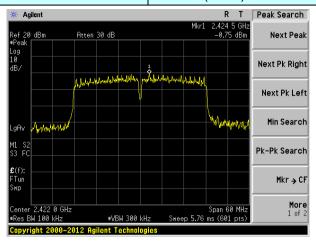
Middle channel



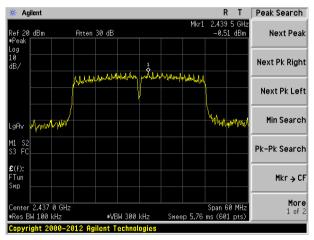
Highest channel



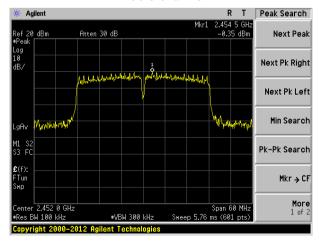
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.6 Band edges

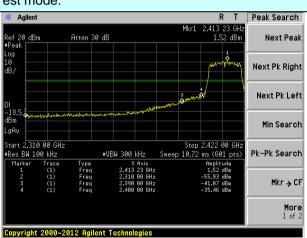
7.6.1 Conducted Emission Method

Toot Poquiroment:	ECC Port15 C Section 15 247 (d)					
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

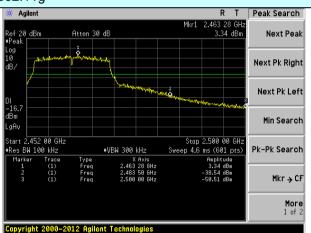


Test plot as follows:



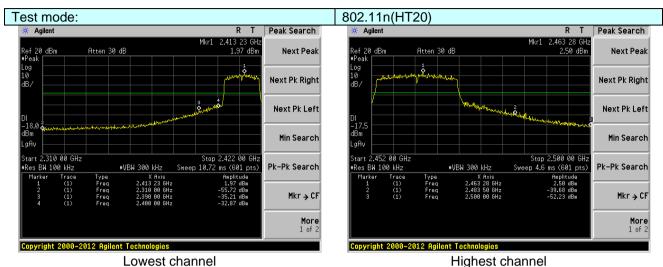


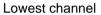
Lowest channel

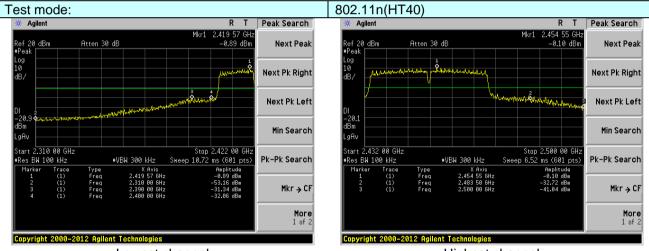


Highest channel









Lowest channel

Highest channel



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:	Freque	ency	Limit (dBuV		Value			
	Above 1	GHz	54.0 74.0		Average Peak			
	Tum Tabl		Receiv					
Test Procedure:	1. 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. 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							

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Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

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.

(lowest and	highest freq	uencies) dat	a was shou	ved.				
Test mode:		802.1	1b	Te	st channel:		Lowest	
Peak value	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	51.84	27.59	5.38	34.01	50.80	74.00	-23.20	Horizontal
2400.00	60.91	27.58	5.39	34.01	59.87	74.00	-14.13	Horizontal
2390.00	53.53	27.59	5.38	34.01	52.49	74.00	-21.51	Vertical
2400.00	62.76	27.58	5.39	34.01	61.72	74.00	-12.28	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	38.55	27.59	5.38	34.01	37.51	54.00	-16.49	Horizontal
2400.00	46.86	27.58	5.39	34.01	45.82	54.00	-8.18	Horizontal
2390.00	40.38	27.59	5.38	34.01	39.34	54.00	-14.66	Vertical
2400.00	48.00	27.58	5.39	34.01	46.96	54.00	-7.04	Vertical
Test mode:		802.1	1b	Те	st channel:		Highest	
Peak value								
Fraguanay	Read	Antenna	Cable	Preamp	Lovol	Limit Line	Over	

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	52.58	27.53	5.47	33.92	51.66	74.00	-22.34	Horizontal
2500.00	48.34	27.55	5.49	29.93	51.45	74.00	-22.55	Horizontal
2483.50	54.87	27.53	5.47	33.92	53.95	74.00	-20.05	Vertical
2500.00	50.89	27.55	5.49	29.93	54.00	74.00	-20.00	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	38.94	27.53	5.47	33.92	38.02	54.00	-15.98	Horizontal
2500.00	35.00	27.55	5.49	29.93	38.11	54.00	-15.89	Horizontal
2483.50	40.90	27.53	5.47	33.92	39.98	54.00	-14.02	Vertical
2500.00	36.89	27.55	5.49	29.93	40.00	54.00	-14.00	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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Test mode:		802.1	1g	Te	st channel:	I	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	50.46	27.59	5.38	34.01	49.42	74.00	-24.58	Horizontal
2400.00	59.07	27.58	5.39	34.01	58.03	74.00	-15.97	Horizontal
2390.00	52.06	27.59	5.38	34.01	51.02	74.00	-22.98	Vertical
2400.00	60.55	27.58	5.39	34.01	59.51	74.00	-14.49	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	37.56	27.59	5.38	34.01	36.52	54.00	-17.48	Horizontal
2400.00	45.73	27.58	5.39	34.01	44.69	54.00	-9.31	Horizontal
2390.00	39.29	27.59	5.38	34.01	38.25	54.00	-15.75	Vertical
2400.00	46.76	27.58	5.39	34.01	45.72	54.00	-8.28	Vertical
Test mode:		802.1	1g	Те	st channel:	1	Highest	
Peak value:	1				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.60	27.53	5.47	33.92	49.68	74.00	-24.32	Horizontal
2500.00	46.81	27.55	5.49	29.93	49.92	74.00	-24.08	Horizontal
2483.50	52.62	27.53	5.47	33.92	51.70	74.00	-22.30	Vertical
2500.00	49.10	27.55	5.49	29.93	52.21	74.00	-21.79	Vertical
Average va	lue:	,		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	37.75	27.53	5.47	33.92	36.83	54.00	-17.17	Horizontal
2500.00	34.08	27.55	5.49	29.93	37.19	54.00	-16.81	Horizontal
2483.50	39.59	27.53	5.47	33.92	38.67	54.00	-15.33	Vertical

Remark:

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

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



Test mode:

Report No.: GTS201608000227E02

Lowest

Frequency (MHz) Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polarize (dBuV/m) 2390.00 50.62 27.59 5.38 34.01 49.58 74.00 -24.42 Horize (dB) 2390.00 59.29 27.58 5.39 34.01 58.25 74.00 -15.75 Horize (dB) 2390.00 52.23 27.59 5.38 34.01 51.19 74.00 -22.81 Vert (dB) 2400.00 60.80 27.58 5.39 34.01 59.76 74.00 -14.24 Vert (dB) Average value: Frequency (MHz) Read Level (dBW) Antenna Factor (dB) Preamp Factor (dB) Level (dBW/m) Limit Line (dBW/m) Over Limit (dB) Polarize (dB) Preamp Factor (dB) Level (dB) Limit Line (dB) Over Limit (dB) Polarize (dB)	ntal ntal
Frequency (MHz) Level (dBuV) Factor (dB/m) Loss (dB) (dB) (dBuV/m) (dBuV/m) (dBuV/m) (dB) Polarize (dBuV/m) (dBuV/m) (dB) Polarize (dBuV/m) (dBuV/m) (dB) Polarize (dBuV/m) (dB) Polarize (dBuV/m) (dB) Polarize (dBuV/m) (dB) Polarize (dBuV/m)	ntal ntal
2400.00 59.29 27.58 5.39 34.01 58.25 74.00 -15.75 Horizonal Horizon	ntal cal
2390.00 52.23 27.59 5.38 34.01 51.19 74.00 -22.81 Vert 2400.00 60.80 27.58 5.39 34.01 59.76 74.00 -14.24 Vert Average value: Frequency (MHz) Read Level (dBwV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBwV/m) Level (dBwV/m) Limit Line (dBwV/m) Over Limit (dB) Polariz (dBwV/m) Antenna (dBwV/m) Polariz (dBwV/m) Polariz (dBwV/m) Antenna (dBwV/m)	cal
2400.00 60.80 27.58 5.39 34.01 59.76 74.00 -14.24 Vert Average value: Frequency (MHz) Read Level (dBuV) Antenna Factor (dB) Cable Loss (dB) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polariz (dB) 2390.00 37.68 27.59 5.38 34.01 36.64 54.00 -17.36 Horizo (dB) 2390.00 45.86 27.58 5.39 34.01 44.82 54.00 -9.18 Horizo (dB) 2390.00 39.41 27.59 5.38 34.01 38.37 54.00 -15.63 Vert 2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest	
Average value: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB/m) Preamp Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) Polarization (dB) 2390.00 37.68 27.59 5.38 34.01 36.64 54.00 -17.36 Horization Horization 2400.00 45.86 27.58 5.39 34.01 44.82 54.00 -9.18 Horization 2390.00 39.41 27.59 5.38 34.01 38.37 54.00 -15.63 Vert 2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest Peak value:	cal
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 (dB) 2390.00 37.68 27.59 5.38 34.01 36.64 54.00 -17.36 Horization Horization 2400.00 45.86 27.58 5.39 34.01 44.82 54.00 -9.18 Horization 2390.00 39.41 27.59 5.38 34.01 38.37 54.00 -15.63 Vert 2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest Preamp Level Limit Line (dBuV/m) Cover	
Frequency (MHz)	
2400.00 45.86 27.58 5.39 34.01 44.82 54.00 -9.18 Horizon 2390.00 39.41 27.59 5.38 34.01 38.37 54.00 -15.63 Vert 2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	ation
2390.00 39.41 27.59 5.38 34.01 38.37 54.00 -15.63 Vert 2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	ntal
2400.00 46.90 27.58 5.39 34.01 45.86 54.00 -8.14 Vert Test mode: 802.11n(HT20) Test channel: Highest Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	ntal
Test mode: 802.11n(HT20) Test channel: Highest Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	cal
Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	cal
Peak value: Frequency Read Antenna Cable Preamp Level Limit Line Over	
Frequency Read Antenna Cable Preamp Level Limit Line Over	
Frequency I I I I I I I I I I I I I I I I I I I	
(MHz) Level (dBuV) (dB/m) (dB) Factor (dB) (dBuV/m) (dBuV/m) Limit (dB) Polariz	ation
2483.50 50.83 27.53 5.47 33.92 49.91 74.00 -24.09 Horizo	ntal
2500.00 46.99 27.55 5.49 29.93 50.10 74.00 -23.90 Horizon	ntal
2483.50 52.88 27.53 5.47 33.92 51.96 74.00 -22.04 Vert	cal
2500.00 49.31 27.55 5.49 29.93 52.42 74.00 -21.58 Vert	cal
Average value:	
Frequency (MHz) Read Level (dBuV) Read Level (dB/m) Read Level (dB/	
2483.50 37.89 27.53 5.47 33.92 36.97 54.00 -17.03 Horizon	ation
2500.00 34.18 27.55 5.49 29.93 37.29 54.00 -16.71 Horizon	
2483.50 39.74 27.53 5.47 33.92 38.82 54.00 -15.18 Vert	ntal
2500.00 36.02 27.55 5.49 29.93 39.13 54.00 -14.87 Vert Remark:	ntal ntal

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.: GTS201608000227E02

Lowest

root modo.		002.1	()	. 0	ot oriarinoi.	-	-011001	
Peak value	:					_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.75	27.59	5.38	34.01	48.71	74.00	-25.29	Horizontal
2400.00	58.12	27.58	5.39	34.01	57.08	74.00	-16.92	Horizontal
2390.00	51.30	27.59	5.38	34.01	50.26	74.00	-23.74	Vertical
2400.00	59.41	27.58	5.39	34.01	58.37	74.00	-15.63	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	37.06	27.59	5.38	34.01	36.02	54.00	-17.98	Horizontal
2400.00	45.14	27.58	5.39	34.01	44.10	54.00	-9.90	Horizontal
2390.00	38.72	27.59	5.38	34.01	37.68	54.00	-16.32	Vertical
2400.00	46.12	27.58	5.39	34.01	45.08	54.00	-8.92	Vertical
Test mode:		802.1	1n(HT40)	Te	st channel:	H	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	49.59	27.53	5.47	33.92	48.67	74.00	-25.33	Horizontal
2500.00	46.02	27.55	5.49	29.93	49.13	74.00	-24.87	Horizontal
2483.50	51.46	27.53	5.47	33.92	50.54	74.00	-23.46	Vertical
2500.00	48.18	27.55	5.49	29.93	51.29	74.00	-22.71	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	37.13	27.53	5.47	33.92	36.21	54.00	-17.79	Horizontal
2500.00	33.60	27.55	5.49	29.93	36.71	54.00	-17.29	Horizontal
2483.50	38.91	27.53	5.47	33.92	37.99	54.00	-16.01	Vertical
2500.00 Remark:	35.40	27.55	5.49	29.93	38.51	54.00	-15.49	Vertical
	, 5				o			

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:	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					

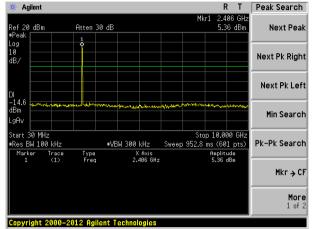


Test plot as follows:

Test mode:

802.11b

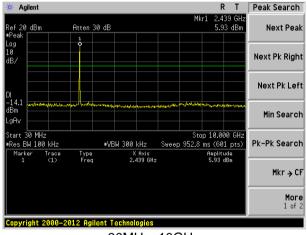
Lowest channel



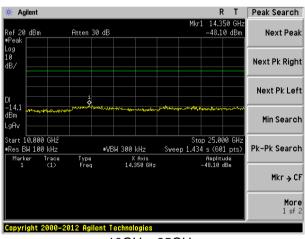
30MHz~10GHz

10GHz~25GHz

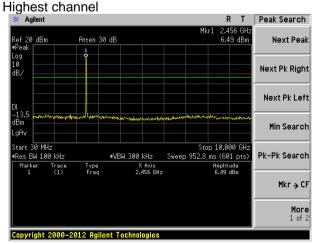
Middle channel



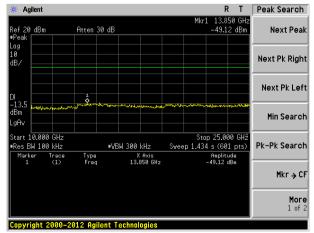
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



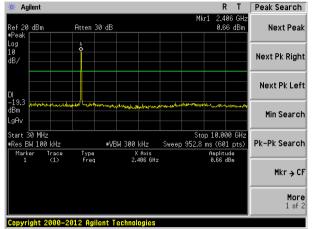
10GHz~25GHz



Test mode:

802.11g

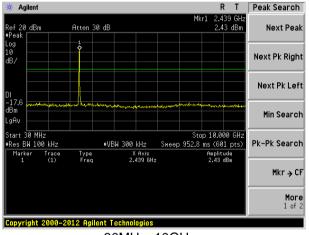
Lowest channel



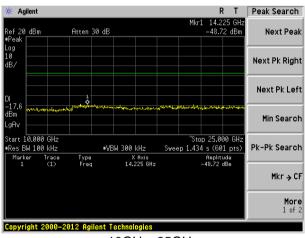
30MHz~10GHz

10GHz~25GHz

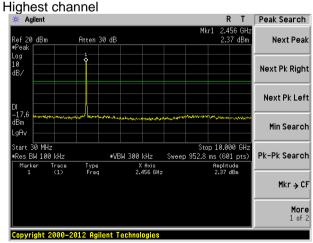
Middle channel



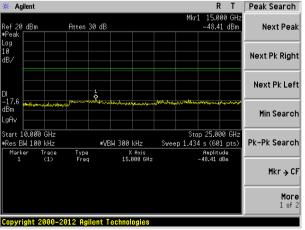
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R T Peak Search

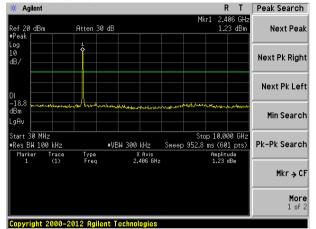
More 1 of 2

Test mode:

802.11n(HT20)

🔆 Agilent

Lowest channel

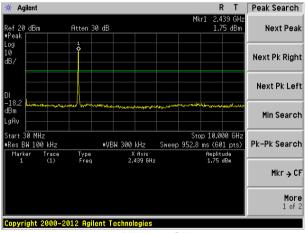


30MHz~10GHz

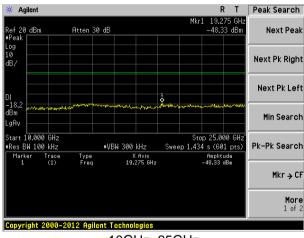
10GHz~25GHz

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Middle channel

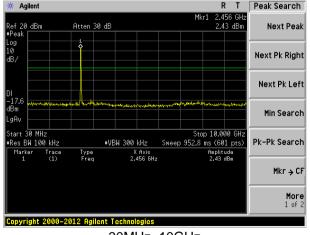


30MHz~10GHz

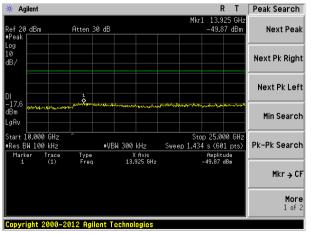


10GHz~25GHz

Highest channel



30MHz~10GHz



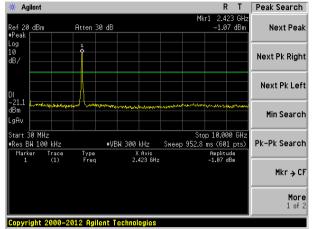
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

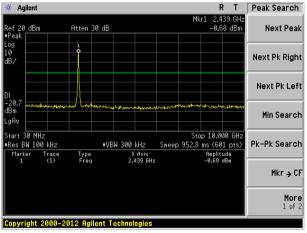


30MHz~10GHz

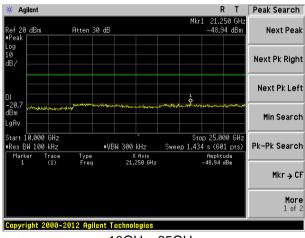
* Agilent R T Peak Search 14.400 GHz -49.41 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.400 GHz Amplitude -49.41 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

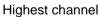
Middle channel

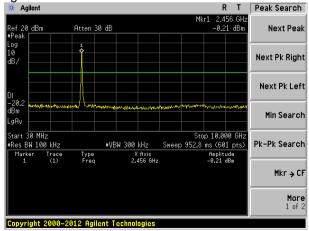


30MHz~10GHz

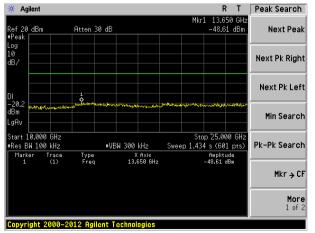


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

FCC Part15 C Section 15.209										
ANSI C63.10:201	ANSI C63.10:2013									
30MHz to 25GHz										
Measurement Dis	stance: 3m									
Frequency	Detector	RBW	VBW	Value						
30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz									
Ab 2112 4011-	Peak	1MHz	3MHz	Peak						
Above 1GHz	Above 1GHz RMS 1MHz 3MHz Average									
Frequer	ісу	Limit (dBuV	/m @3m)	Value						
30MHz-88	30MHz-88MHz 40.00 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 46	54.00 Average									
Above 10	סחב	74.0	0	Peak						
Below 1GHz	EUT+	Test < 1n	1 4m >√	fier _e						
	ANSI C63.10:200 30MHz to 25GHz Measurement Dis Frequency 30MHz-1GHz Above 1GHz Frequency 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 10	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector 30MHz-1GHz Quasi-peak Above 1GHz Peak RMS Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz RMS 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz 54.0 Below 1GHz Tum Table Receiver	ANSI C63.10:2013 30MHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 54.00 Below 1GHz Below 1GHz Receiver Preampling						



	Tum Table (150cm > 4) Receiver Preamplifier
Test Procedure:	1. 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 5.3 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
36.00	44.40	14.58	0.62	30.06	29.54	40.00	-10.46	Vertical
50.76	46.05	15.21	0.78	29.99	32.05	40.00	-7.95	Vertical
65.57	47.63	12.44	0.90	29.88	31.09	40.00	-8.91	Vertical
126.33	40.24	11.51	1.41	29.53	23.63	43.50	-19.87	Vertical
184.49	49.90	12.08	1.76	29.26	34.48	43.50	-9.02	Vertical
369.41	38.08	16.51	2.72	29.64	27.67	46.00	-18.33	Vertical
64.89	41.74	12.71	0.90	29.89	25.46	40.00	-14.54	Horizontal
122.83	38.56	12.00	1.38	29.55	22.39	43.50	-21.11	Horizontal
152.66	46.67	10.39	1.59	29.39	29.26	43.50	-14.24	Horizontal
184.49	54.97	12.08	1.76	29.26	39.55	43.50	-3.95	Horizontal
250.30	39.90	14.07	2.12	29.65	26.44	46.00	-19.56	Horizontal
383.93	39.24	16.68	2.78	29.57	29.13	46.00	-16.87	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	40.88	31.79	8.62	32.10	49.19	74.00	-24.81	Vertical
7236.00	34.59	36.19	11.68	31.97	50.49	74.00	-23.51	Vertical
9648.00	32.98	38.07	14.16	31.56	53.65	74.00	-20.35	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.46	31.79	8.62	32.10	47.77	74.00	-26.23	Horizontal
7236.00	34.29	36.19	11.68	31.97	50.19	74.00	-23.81	Horizontal
9648.00	32.54	38.07	14.16	31.56	53.21	74.00	-20.79	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.92	31.79	8.62	32.10	38.23	54.00	-15.77	Vertical
7236.00	23.44	36.19	11.68	31.97	39.34	54.00	-14.66	Vertical
9648.00	23.31	38.07	14.16	31.56	43.98	54.00	-10.02	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.96	31.79	8.62	32.10	37.27	54.00	-16.73	Horizontal
7236.00	22.86	36.19	11.68	31.97	38.76	54.00	-15.24	Horizontal
9648.00	22.27	38.07	14.16	31.56	42.94	54.00	-11.06	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.83	31.85	8.66	32.12	48.22	74.00	-25.78	Vertical
7311.00	34.60	36.37	11.71	31.91	50.77	74.00	-23.23	Vertical
9748.00	33.95	38.27	14.25	31.56	54.91	74.00	-19.09	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.24	31.85	8.66	32.12	48.63	74.00	-25.37	Horizontal
7311.00	33.20	36.37	11.71	31.91	49.37	74.00	-24.63	Horizontal
9748.00	33.82	38.27	14.25	31.56	54.78	74.00	-19.22	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	30.65	31.85	8.66	32.12	39.04	54.00	-14.96	Vertical
7311.00	22.90	36.37	11.71	31.91	39.07	54.00	-14.93	Vertical
9748.00	23.20	38.27	14.25	31.56	44.16	54.00	-9.84	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.32	31.85	8.66	32.12	38.71	54.00	-15.29	Horizontal
7311.00	22.28	36.37	11.71	31.91	38.45	54.00	-15.55	Horizontal
9748.00	23.53	38.27	14.25	31.56	44.49	54.00	-9.51	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	45.71	31.90	8.70	32.15	54.16	74.00	-19.84	Vertical
7386.00	35.49	36.49	11.76	31.83	51.91	74.00	-22.09	Vertical
9848.00	37.40	38.62	14.31	31.77	58.56	74.00	-15.44	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.89	31.90	8.70	32.15	53.34	74.00	-20.66	Horizontal
7386.00	34.33	36.49	11.76	31.83	50.75	74.00	-23.25	Horizontal
9848.00	33.55	38.62	14.31	31.77	54.71	74.00	-19.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.56	31.90	8.70	32.15	45.01	54.00	-8.99	Vertical
7386.00	25.39	36.49	11.76	31.83	41.81	54.00	-12.19	Vertical
9848.00	25.89	38.62	14.31	31.77	47.05	54.00	-6.95	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.21	31.90	8.70	32.15	43.66	54.00	-10.34	Horizontal
7386.00	23.70	36.49	11.76	31.83	40.12	54.00	-13.88	Horizontal
9848.00	22.79	38.62	14.31	31.77	43.95	54.00	-10.05	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.74	31.79	8.62	32.10	48.05	74.00	-25.95	Vertical
7236.00	33.87	36.19	11.68	31.97	49.77	74.00	-24.23	Vertical
9648.00	32.47	38.07	14.16	31.56	53.14	74.00	-20.86	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.50	31.79	8.62	32.10	46.81	74.00	-27.19	Horizontal
7236.00	33.66	36.19	11.68	31.97	49.56	74.00	-24.44	Horizontal
9648.00	32.06	38.07	14.16	31.56	52.73	74.00	-21.27	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.87	31.79	8.62	32.10	37.18	54.00	-16.82	Vertical
7236.00	22.75	36.19	11.68	31.97	38.65	54.00	-15.35	Vertical
9648.00	22.82	38.07	14.16	31.56	43.49	54.00	-10.51	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.06	31.79	8.62	32.10	36.37	54.00	-17.63	Horizontal
7236.00	22.25	36.19	11.68	31.97	38.15	54.00	-15.85	Horizontal
9648.00	21.82	38.07	14.16	31.56	42.49	54.00	-11.51	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		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.89	31.85	8.66	32.12	47.28	74.00	-26.72	Vertical
7311.00	34.00	36.37	11.71	31.91	50.17	74.00	-23.83	Vertical
9748.00	33.53	38.27	14.25	31.56	54.49	74.00	-19.51	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.44	31.85	8.66	32.12	47.83	74.00	-26.17	Horizontal
7311.00	32.68	36.37	11.71	31.91	48.85	74.00	-25.15	Horizontal
9748.00	33.43	38.27	14.25	31.56	54.39	74.00	-19.61	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average value	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.78	31.85	8.66	32.12	38.17	54.00	-15.83	Vertical
7311.00	22.33	36.37	11.71	31.91	38.50	54.00	-15.50	Vertical
9748.00	22.79	38.27	14.25	31.56	43.75	54.00	-10.25	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.58	31.85	8.66	32.12	37.97	54.00	-16.03	Horizontal
7311.00	21.77	36.37	11.71	31.91	37.94	54.00	-16.06	Horizontal
9748.00	23.15	38.27	14.25	31.56	44.11	54.00	-9.89	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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^{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	44.09	31.90	8.70	32.15	52.54	74.00	-21.46	Vertical
7386.00	34.47	36.49	11.76	31.83	50.89	74.00	-23.11	Vertical
9848.00	36.67	38.62	14.31	31.77	57.83	74.00	-16.17	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.52	31.90	8.70	32.15	51.97	74.00	-22.03	Horizontal
7386.00	33.43	36.49	11.76	31.83	49.85	74.00	-24.15	Horizontal
9848.00	32.87	38.62	14.31	31.77	54.03	74.00	-19.97	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			Γ	T			ı	,
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	35.07	31.90	8.70	32.15	43.52	54.00	-10.48	Vertical
7386.00	24.40	36.49	11.76	31.83	40.82	54.00	-13.18	Vertical
9848.00	25.19	38.62	14.31	31.77	46.35	54.00	-7.65	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.93	31.90	8.70	32.15	42.38	54.00	-11.62	Horizontal
7386.00	22.83	36.49	11.76	31.83	39.25	54.00	-14.75	Horizontal
9848.00	22.14	38.62	14.31	31.77	43.30	54.00	-10.70	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 45 of 53

^{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	40.04	31.79	8.62	32.10	48.35	74.00	-25.65	Vertical
7236.00	34.06	36.19	11.68	31.97	49.96	74.00	-24.04	Vertical
9648.00	32.60	38.07	14.16	31.56	53.27	74.00	-20.73	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.75	31.79	8.62	32.10	47.06	74.00	-26.94	Horizontal
7236.00	33.83	36.19	11.68	31.97	49.73	74.00	-24.27	Horizontal
9648.00	32.19	38.07	14.16	31.56	52.86	74.00	-21.14	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val			,		_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.15	31.79	8.62	32.10	37.46	54.00	-16.54	Vertical
7236.00	22.93	36.19	11.68	31.97	38.83	54.00	-15.17	Vertical
9648.00	22.95	38.07	14.16	31.56	43.62	54.00	-10.38	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.30	31.79	8.62	32.10	36.61	54.00	-17.39	Horizontal
7236.00	22.42	36.19	11.68	31.97	38.32	54.00	-15.68	Horizontal
9648.00	21.94	38.07	14.16	31.56	42.61	54.00	-11.39	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.

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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	39.14	31.85	8.66	32.12	47.53	74.00	-26.47	Vertical
7311.00	34.16	36.37	11.71	31.91	50.33	74.00	-23.67	Vertical
9748.00	33.64	38.27	14.25	31.56	54.60	74.00	-19.40	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.65	31.85	8.66	32.12	48.04	74.00	-25.96	Horizontal
7311.00	32.82	36.37	11.71	31.91	48.99	74.00	-25.01	Horizontal
9748.00	33.54	38.27	14.25	31.56	54.50	74.00	-19.50	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	30.01	31.85	8.66	32.12	38.40	54.00	-15.60	Vertical
7311.00	22.48	36.37	11.71	31.91	38.65	54.00	-15.35	Vertical
9748.00	22.90	38.27	14.25	31.56	43.86	54.00	-10.14	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.78	31.85	8.66	32.12	38.17	54.00	-15.83	Horizontal
7311.00	21.91	36.37	11.71	31.91	38.08	54.00	-15.92	Horizontal
9748.00	23.25	38.27	14.25	31.56	44.21	54.00	-9.79	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 47 of 53

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

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



Test mode:		802.11n(H	IT20)	Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.52	31.90	8.70	32.15	52.97	74.00	-21.03	4924.00
7386.00	34.74	36.49	11.76	31.83	51.16	74.00	-22.84	7386.00
9848.00	36.87	38.62	14.31	31.77	58.03	74.00	-15.97	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.88	31.90	8.70	32.15	52.33	74.00	-21.67	Horizontal
7386.00	33.67	36.49	11.76	31.83	50.09	74.00	-23.91	Horizontal
9848.00	33.05	38.62	14.31	31.77	54.21	74.00	-19.79	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	35.47	31.90	8.70	32.15	43.92	54.00	-10.08	Vertical
7386.00	24.66	36.49	11.76	31.83	41.08	54.00	-12.92	Vertical
9848.00	25.38	38.62	14.31	31.77	46.54	54.00	-7.46	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.27	31.90	8.70	32.15	42.72	54.00	-11.28	Horizontal
7386.00	23.06	36.49	11.76	31.83	39.48	54.00	-14.52	Horizontal
9848.00	22.32	38.62	14.31	31.77	43.48	54.00	-10.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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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.



	002(IT40)	Test	channel:	Lowe	est	
	1				<u>'</u>		
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
39.43	31.81	8.63	32.11	47.76	74.00	-26.24	Vertical
33.68	36.28	11.69	31.94	49.71	74.00	-24.29	Vertical
32.33	38.13	14.21	31.52	53.15	74.00	-20.85	Vertical
*					74.00		Vertical
*					74.00		Vertical
*					74.00		Vertical
38.24	31.81	8.63	32.11	46.57	74.00	-27.43	Horizontal
33.49	36.28	11.69	31.94	49.52	74.00	-24.48	Horizontal
31.93	38.13	14.21	31.52	52.75	74.00	-21.25	Horizontal
*					74.00		Horizontal
*					74.00		Horizontal
*					74.00		Horizontal
	Level (dBuV) 39.43 33.68 32.33 * * 38.24 33.49 31.93 *	Level (dBuV) (dB/m) 39.43 31.81 33.68 36.28 32.33 38.13 * * * 38.24 31.81 33.49 36.28 31.93 38.13 * * *	Level (dBuV) Factor (dB/m) Loss (dB) 39.43 31.81 8.63 33.68 36.28 11.69 32.33 38.13 14.21 * * * * 38.24 31.81 8.63 33.49 36.28 11.69 31.93 38.13 14.21 * * * * * *	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) 39.43 31.81 8.63 32.11 33.68 36.28 11.69 31.94 32.33 38.13 14.21 31.52 * * 38.24 31.81 8.63 32.11 33.49 36.28 11.69 31.94 31.93 38.13 14.21 31.52 * * * * * *	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) 39.43 31.81 8.63 32.11 47.76 33.68 36.28 11.69 31.94 49.71 32.33 38.13 14.21 31.52 53.15 * * 38.24 31.81 8.63 32.11 46.57 33.49 36.28 11.69 31.94 49.52 31.93 38.13 14.21 31.52 52.75 * * * * * * * *	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) 39.43 31.81 8.63 32.11 47.76 74.00 33.68 36.28 11.69 31.94 49.71 74.00 32.33 38.13 14.21 31.52 53.15 74.00 * 74.00 74.00 74.00 * 74.00 74.00 33.49 36.28 11.69 31.94 49.52 74.00 * 74.00 74.00 74.00 74.00 * 74.00 74.00 74.00	Level (dBuV) Factor (dB/m) Loss (dB) Factor (dB) Level (dBuV/m) Limit Line (dBuV/m) Linit Line (dBuV/m) Limit Line (dBuV/m)

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.59	31.81	8.63	32.11	36.92	54.00	-17.08	Vertical
7266.00	22.56	36.28	11.69	31.94	38.59	54.00	-15.41	Vertical
9688.00	22.69	38.13	14.21	31.52	43.51	54.00	-10.49	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.82	31.81	8.63	32.11	36.15	54.00	-17.85	Horizontal
7266.00	22.09	36.28	11.69	31.94	38.12	54.00	-15.88	Horizontal
9688.00	21.70	38.13	14.21	31.52	42.52	54.00	-11.48	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)		Test channel:		Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	38.64	31.85	8.66	32	.12	47.03	74.00		-26.97	Vertical
7311.00	33.84	36.37	11.71	31	.91	50.01	74.00		-23.99	Vertical
9748.00	33.41	38.27	14.25	31	.56	54.37	74.00		-19.63	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	39.23	31.85	8.66	32	.12	47.62	74.00		-26.38	Horizontal
7311.00	32.54	36.37	11.71	31	.91	48.71	74.00		-25.29	Horizontal
9748.00	33.33	38.27	14.25	31.56		54.29	74.00		-19.71	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.55	31.85	8.66	32	.12	37.94	54.0	00	-16.06	Vertical
7311.00	22.17	36.37	11.71	31	.91	38.34	54.0	00	-15.66	Vertical
9748.00	22.68	38.27	14.25	31	.56	43.64	54.0	00	-10.36	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	29.38	31.85	8.66	32	.12	37.77	54.0	00	-16.23	Horizontal
7311.00	21.64	36.37	11.71	31	.91	37.81	54.0	00	-16.19	Horizontal
9748.00	23.05	38.27	14.25	31	.56	44.01	54.0	00	-9.99	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. "*", 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	43.66	31.88	8.68	32.13	52.09	74.00	-21.91	Vertical
7356.00	34.19	36.45	11.75	31.86	50.53	74.00	-23.47	Vertical
9808.00	36.48	38.43	14.29	31.68	57.52	74.00	-16.48	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.15	31.88	8.68	32.13	51.58	74.00	-22.42	Horizontal
7356.00	33.19	36.45	11.75	31.86	49.53	74.00	-24.47	Horizontal
9808.00	32.69	38.43	14.29	31.68	53.73	74.00	-20.27	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	34.67	31.88	8.68	32.13	43.10	54.00	-10.90	Vertical
7356.00	24.13	36.45	11.75	31.86	40.47	54.00	-13.53	Vertical
9808.00	25.00	38.43	14.29	31.68	46.04	54.00	-7.96	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.58	31.88	8.68	32.13	42.01	54.00	-11.99	Horizontal
7356.00	22.60	36.45	11.75	31.86	38.94	54.00	-15.06	Horizontal
9808.00	21.97	38.43	14.29	31.68	43.01	54.00	-10.99	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

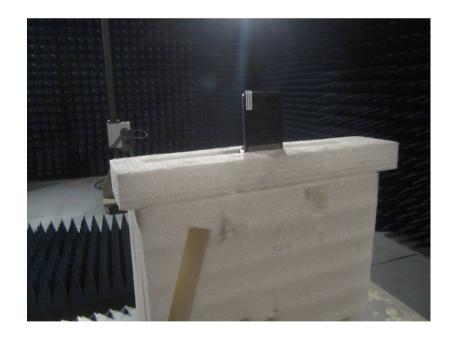
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission





Page 52 of 53



Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201608000267E01

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