

FCC Report (WIFI)

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Factory: Guangdong Deyuan Technology Co.,Ltd.
Address of Factory: Xixiu Road 32, Xinhua Street, Huadu, Guangzhou, Guangdong, China

Equipment Under Test (EUT)

Product Name: Multimedia Touch all-in-one Machine
Model No.: LED650H(Series model please refer to page5).
Trade Mark: N/A
FCC ID: 2ATZ7-LED650H
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
KDB558074 D01 DTS Meas Guidance V05r02
Date of sample receipt: July 09, 2019
Date of Test: July 09 to July 24, 2019
Date of report issued: July 24, 2019
Test Result : PASS *

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

Authorized Signature:

Robinson Lo

Laboratory Manager

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

2 Version

Version No.	Date	Description
00	July 24, 2019	Original

Prepared By:



Project Engineer

Date:

July 24, 2019

Check By:



Reviewer

Date:

July 24, 2019

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	7
5.3 DESCRIPTION OF SUPPORT UNITS	7
5.4 TEST FACILITY	7
5.5 TEST LOCATION	7
5.6 ADDITIONAL INSTRUCTIONS	8
6 TEST INSTRUMENTS LIST	9
7 TEST RESULTS AND MEASUREMENT DATA	11
7.1 ANTENNA REQUIREMENT	11
7.2 CONDUCTED EMISSIONS	12
7.3 CONDUCTED PEAK OUTPUT POWER	16
7.4 CHANNEL BANDWIDTH	18
7.5 POWER SPECTRAL DENSITY	24
7.6 BAND EDGES	30
7.6.1 Conducted Emission Method	30
7.6.2 Radiated Emission Method	33
7.7 SPURIOUS EMISSION	38
7.7.1 Conducted Emission Method	38
7.7.2 Radiated Emission Method	43
8 TEST SETUP PHOTO	60
9 EUT CONSTRUCTIONAL DETAILS	60

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

Remark: Test according to ANSI C63.10:2013.

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

Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Conducted Peak Output Power	0.65dB	(1)
Power Spectral Density	1.31dB	(1)
Unwanted Emission, conducted	2.8dB	(1)
Radiated Emission (30MHz-200MHz)	3.8039dB	(1)
Radiated Emission (200MHz-1GHz)	3.9679dB	(1)
Radiated Emission (1GHz-18GHz)	4.29dB	(1)
Radiated Emission (18GHz-40GHz)	3.30dB	(1)
AC Power Line Conducted Emission (0.15MHz ~ 30MHz)	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Multimedia Touch all-in-one Machine
Model No.:	LED650H
Test Model No:	LED650H,LED185G,LED215G,LED240G,LED280G,LED320G,LED400G,LED430J,LED430G,LED430C,LED430P,LED460G,LED460P,LED490H,LED490J,LED490G,LED490C,LED490P,LED490T,LED500H,LED500J,LED500G,LED500C,LED500P,LED500T,LED550H,LED550J,LED550G,LED550C,LED550P,LED550T,LED580H,LED580J,LED580G,LED580C,LED580P,LED580T,LED600H,LED600J,LED600G,LED600C,LED600P,LED600T,LED650J,LED650G,LED650C,LED650P,LED650T,LED700H,LED700J,LED700G,LED750H,LED750J,LED750G,LED850H,LED850J,LED850G,LED860H,LED860J,LED860G,LED980H,LED980J,LED980G,LED100H,LED100J,LED100G
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose.	
Serial No.:	JAW500E
Hardware version:	HV1.0
Software version:	SV1.0
Test sample(s) ID:	GTS201907000075
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	External Antenna
Antenna gain:	1.0dBi
Power supply:	AC 120V / 60Hz

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

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>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.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

None

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC —Registration No.: 381383 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018. ● 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.
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5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.6 Additional Instructions

EUT Software Settings:

Mode	Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.		
Test Software Name	DRTU Version 1.7.7-02972		
Mode	Channel	Frequency (MHz)	Software Set
802.11b/g/n(HT20)	CH1	2412	TX level : default
	CH6	2437	
	CH11	2462	
802.11n(HT40)	CH3	2422	
	CH6	2437	
	CH9	2452	

6 Test Instruments list

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

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

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

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

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is External antenna, the best case gain of the antenna is 1.0dBi. WIFI ANT 	

7.2 Conducted Emissions

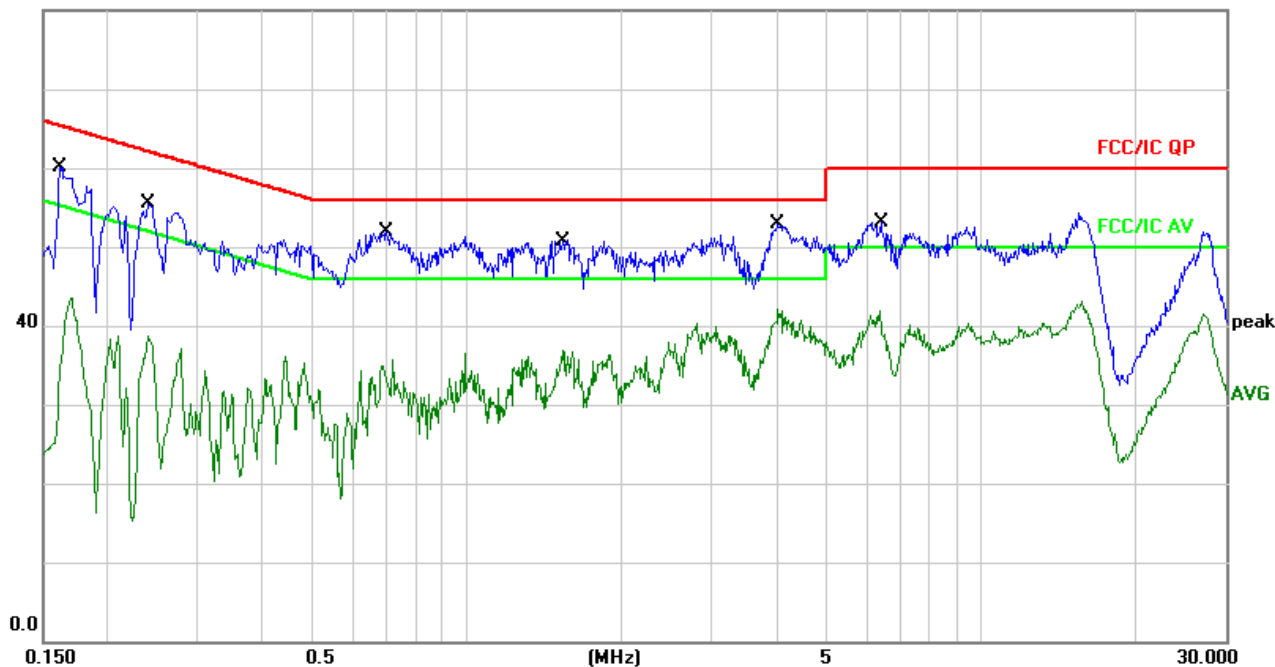
Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	Clause 6.2 of ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * Decreases with the logarithm of the frequency.			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test setup:	Reference Plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m																
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 4. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s).The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument. 5. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long. 6. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m. 7. LISN at least 80 cm from nearest part of EUT chassis. 8. For the actual test configuration, please refer to the related Item –EUT																

	Test Photos.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data

Line:

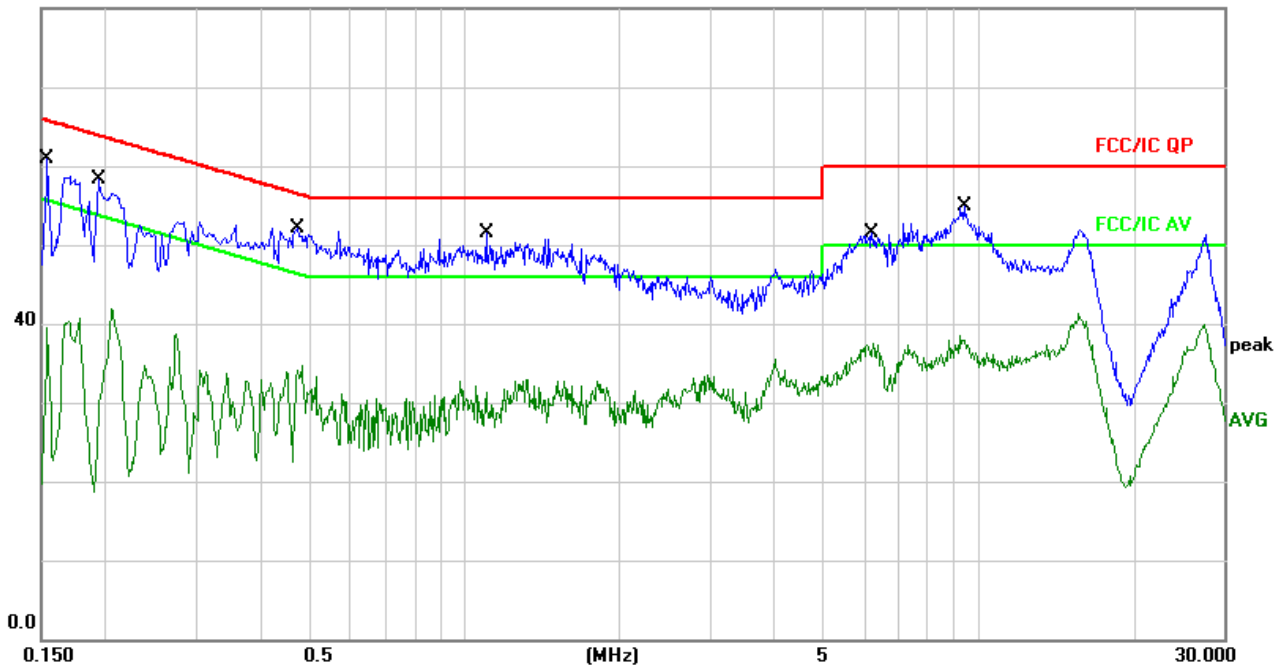
80.0 dBuV



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	50.38	9.67	60.05	65.36	-5.31	QP	
2		0.1620	33.84	9.67	43.51	55.36	-11.85	AVG	
3		0.2391	45.92	9.65	55.57	62.12	-6.55	QP	
4		0.2391	29.03	9.65	38.68	52.12	-13.44	AVG	
5		0.6980	42.23	9.68	51.91	56.00	-4.09	QP	
6		0.6980	25.97	9.68	35.65	46.00	-10.35	AVG	
7		1.5420	41.10	9.70	50.80	56.00	-5.20	QP	
8		1.5420	27.21	9.70	36.91	46.00	-9.09	AVG	
9	*	4.0419	43.16	9.73	52.89	56.00	-3.11	QP	
10		4.0419	32.35	9.73	42.08	46.00	-3.92	AVG	
11		6.3939	43.41	9.78	53.19	60.00	-6.81	QP	
12		6.3939	29.24	9.78	39.02	50.00	-10.98	AVG	

Neutral:

80.0 dBuV

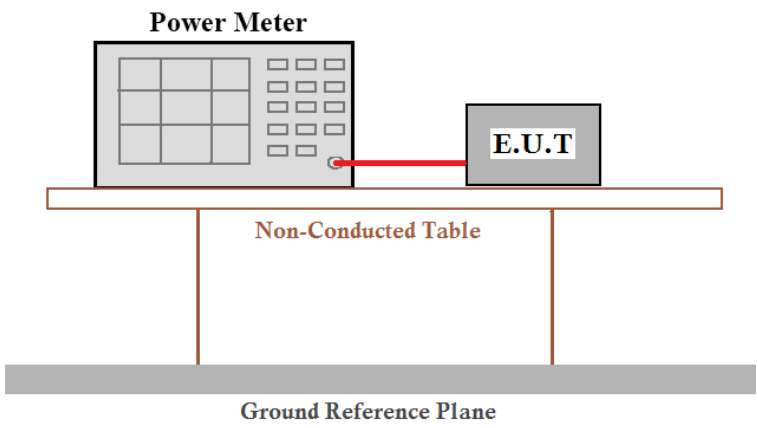


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	51.15	9.67	60.82	65.78	-4.96	QP	
2		0.1539	29.84	9.67	39.51	55.78	-16.27	AVG	
3		0.1940	48.69	9.65	58.34	63.86	-5.52	QP	
4		0.1940	27.64	9.65	37.29	53.86	-16.57	AVG	
5	*	0.4740	42.51	9.68	52.19	56.44	-4.25	QP	
6		0.4740	25.08	9.68	34.76	46.44	-11.68	AVG	
7		1.1019	41.79	9.69	51.48	56.00	-4.52	QP	
8		1.1019	21.57	9.69	31.26	46.00	-14.74	AVG	
9		6.2139	41.68	9.78	51.46	60.00	-8.54	QP	
10		6.2139	27.79	9.78	37.57	50.00	-12.43	AVG	
11		9.3979	45.01	9.82	54.83	60.00	-5.17	QP	
12		9.3979	28.63	9.82	38.45	50.00	-11.55	AVG	

Notes:

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

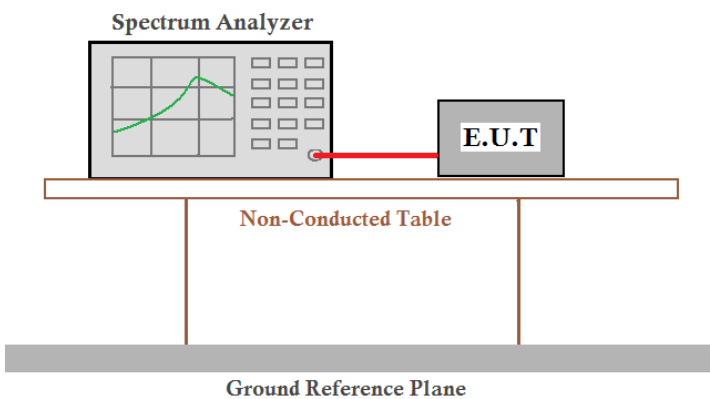
7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	Clause 8.3 of KDB558074 D01 DTS Meas Guidance V05r02
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Power Meter and an E.U.T. (Equipment Under Test) are connected by a red cable. They are positioned on a Non-Conducted Table, which is elevated from a Ground Reference Plane by two vertical supports.
Test procedure:	1.The Eut was directly connected to the power meter.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	15.59	15.12	14.25	12.08	30.00	Pass
Middle	15.84	15.31	14.53	12.17		
Highest	15.78	15.77	14.53	12.49		

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	Clause 8.2 of KDB558074 D01 DTS Meas Guidance V05r02 and Subclause 11.8 of ANSI C63.10.
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test CH	Channel Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	9.664	16.37	17.34	35.37	>500	Pass
Middle	10.08	16.37	17.58	35.31		
Highest	10.05	16.38	17.42	35.40		

Test plot as follows:

Main Antenna:

Test mode:

802.11b



Lowest channel

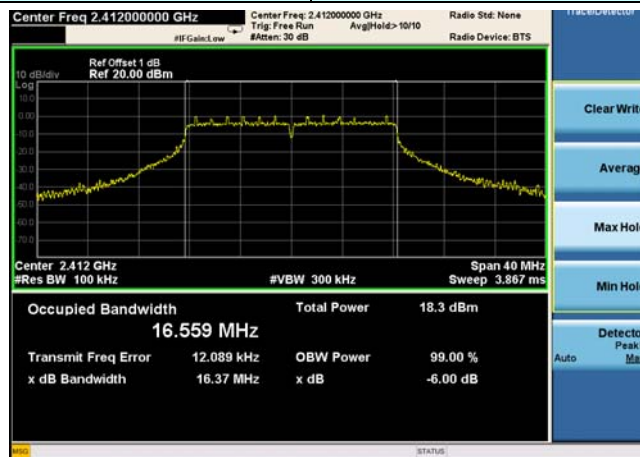


Middle channel



Highest channel

Test mode:	802.11g
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Lowest channel



Middle channel



Highest channel

Test mode:	802.11n(HT20)
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Lowest channel



Middle channel

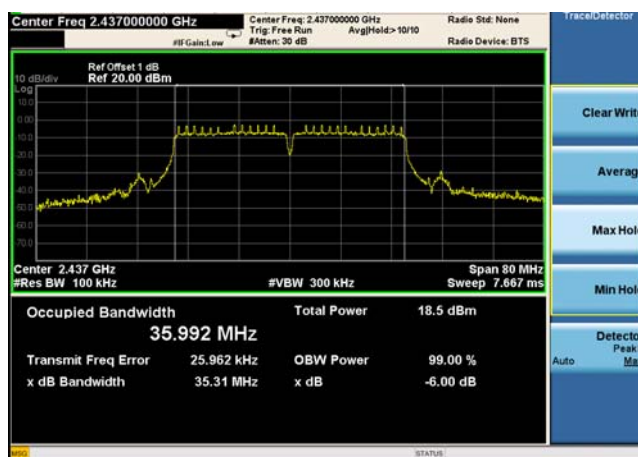


Highest channel

Test mode:	802.11n(HT40)
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Lowest channel

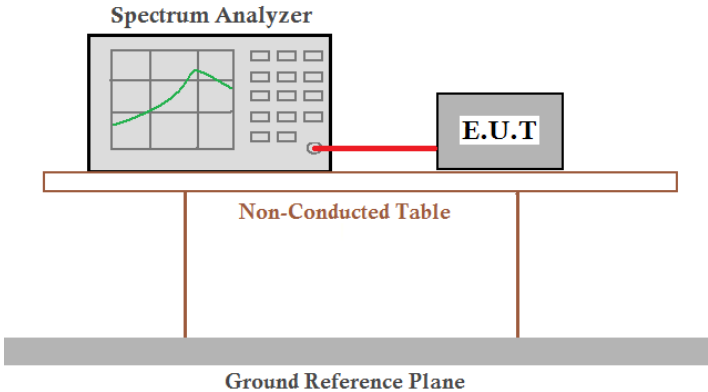


Middle channel



Highest channel

7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	Clause 8.4 of KDB 558074 D01 15.247 Meas Guidance v05r02 and subclause 11.10 of ANSI C63.10
Limit:	8dBm/3kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	1.Set analyzer center frequency to DTS channel center frequency. 2.Set the span to 1.5 times the DTS channel bandwidth. 3.Set the $100\text{ kHz} \geq \text{RBW} \geq 3\text{ kHz}$. 4.Set the $\text{VBW} \geq 3 \times \text{RBW}$. 5.Detector = peak. 6.Sweep time = auto couple. 7.Trace mode = max hold. 8.Allow trace to fully stabilize. 9.Use the peak marker function to determine the maximum amplitude level. 10.If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test CH	Power Spectral Density (dBm)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-8.059	-14.956	-12.294	-18.786	8.00	Pass
Middle	-9.080	-14.886	-12.885	-16.813		
Highest	-8.975	-12.972	-12.595	-17.559		

Test plot as follows:

Test mode:	802.11b
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Lowest channel

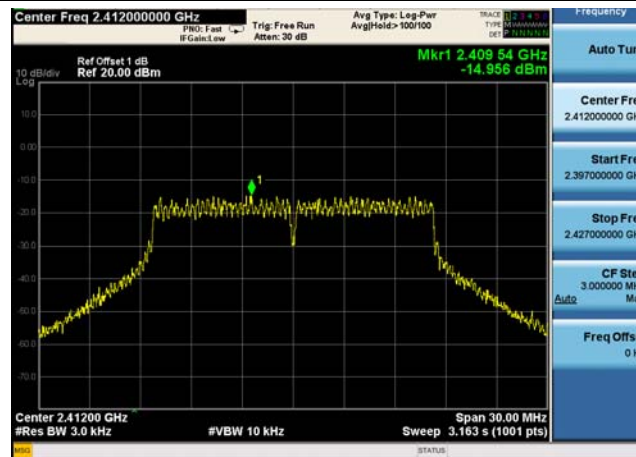


Middle channel

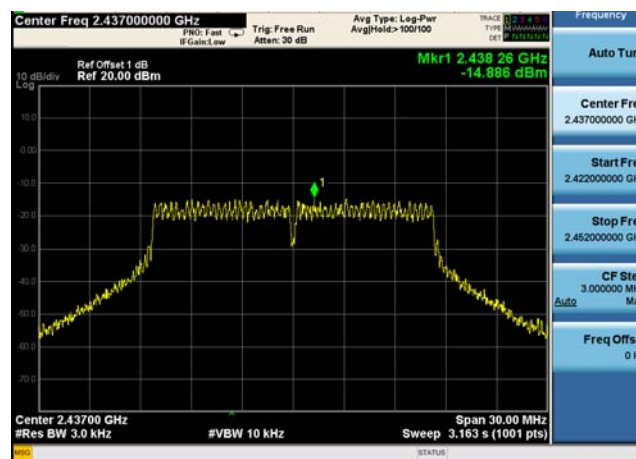


Highest channel

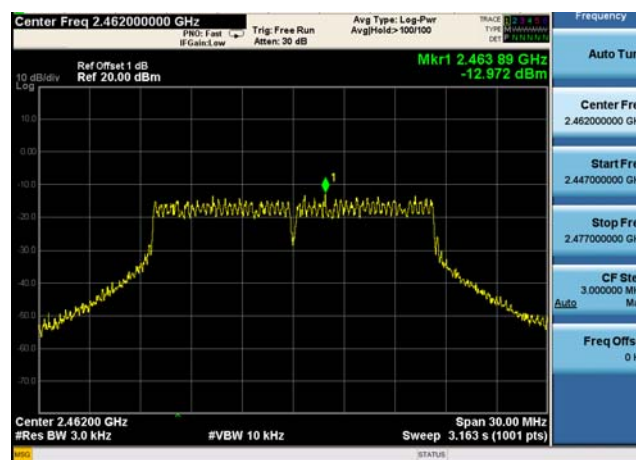
Test mode:	802.11g
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Lowest channel

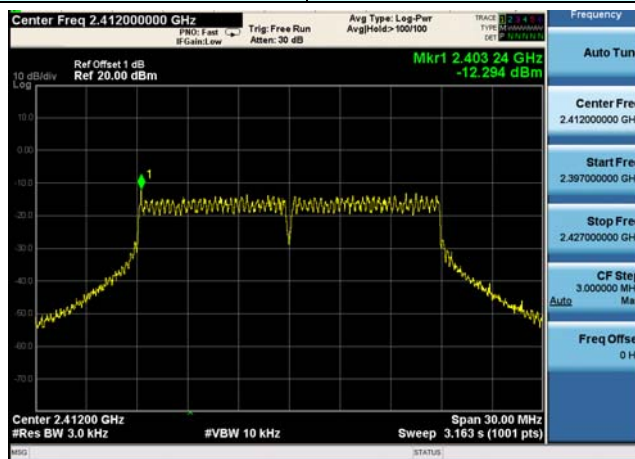


Middle channel

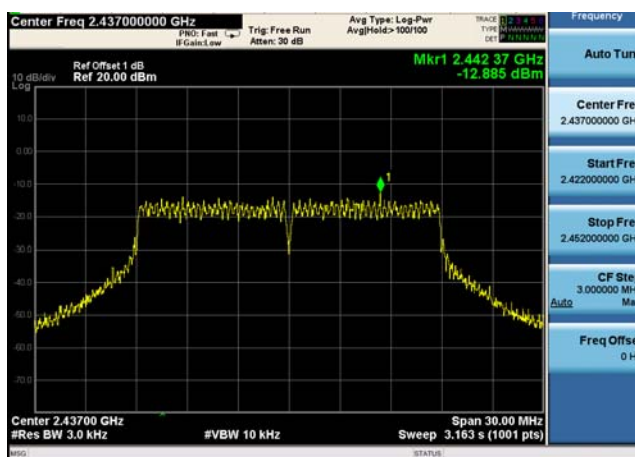


Highest channel

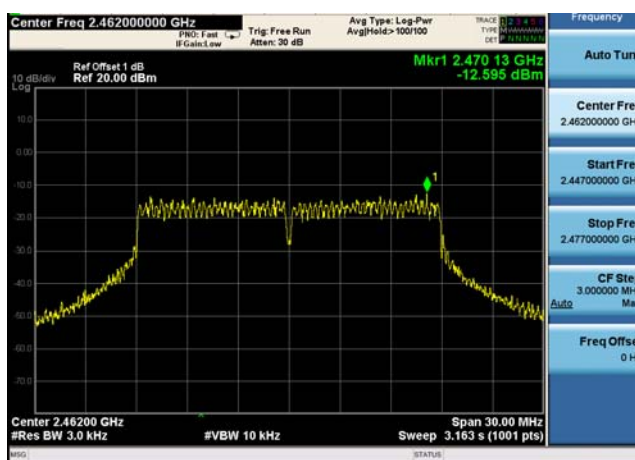
Test mode:	802.11n(HT20)
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Lowest channel



Middle channel



Highest channel

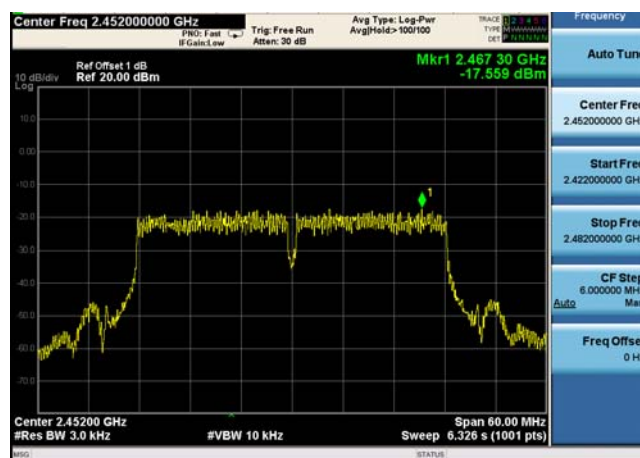
Test mode:	802.11n(HT40)
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Lowest channel



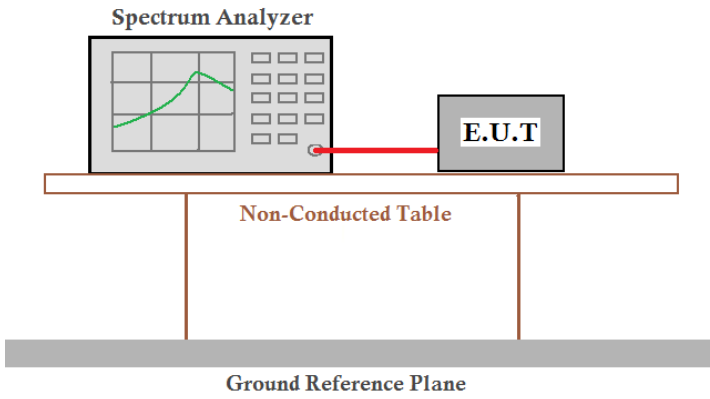
Middle channel



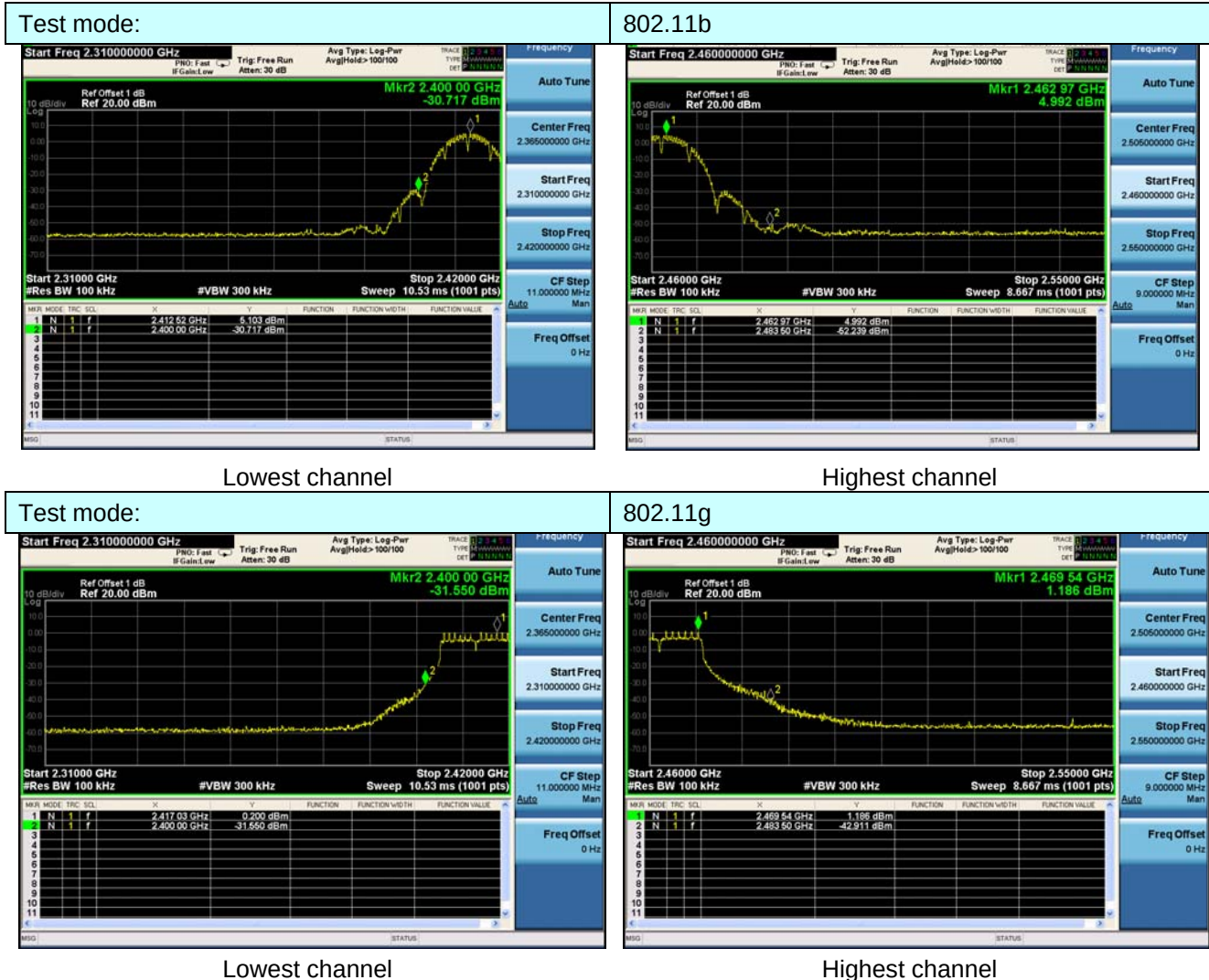
Highest channel

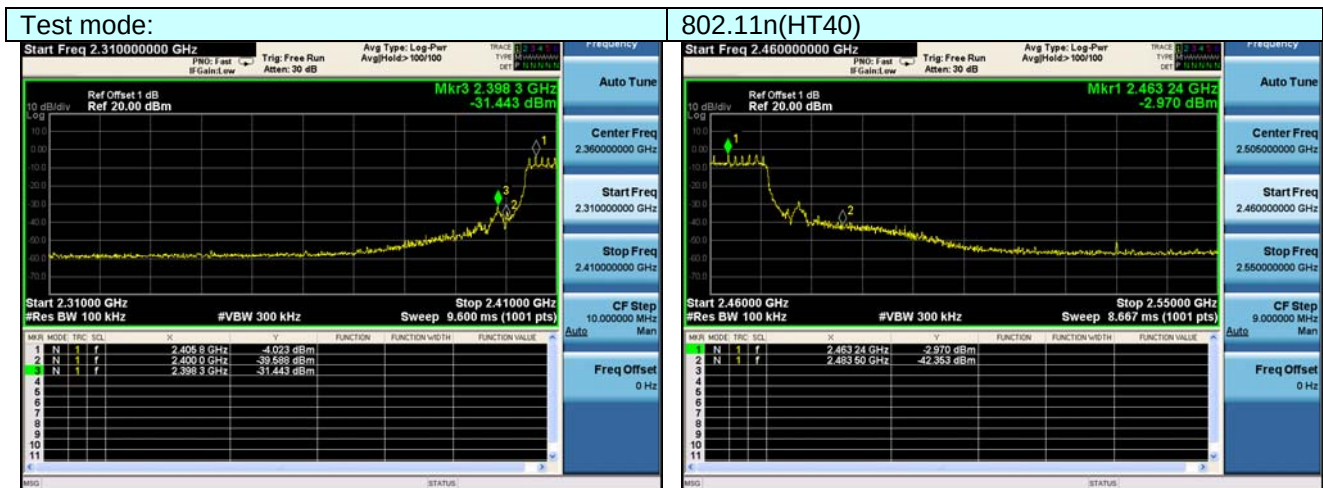
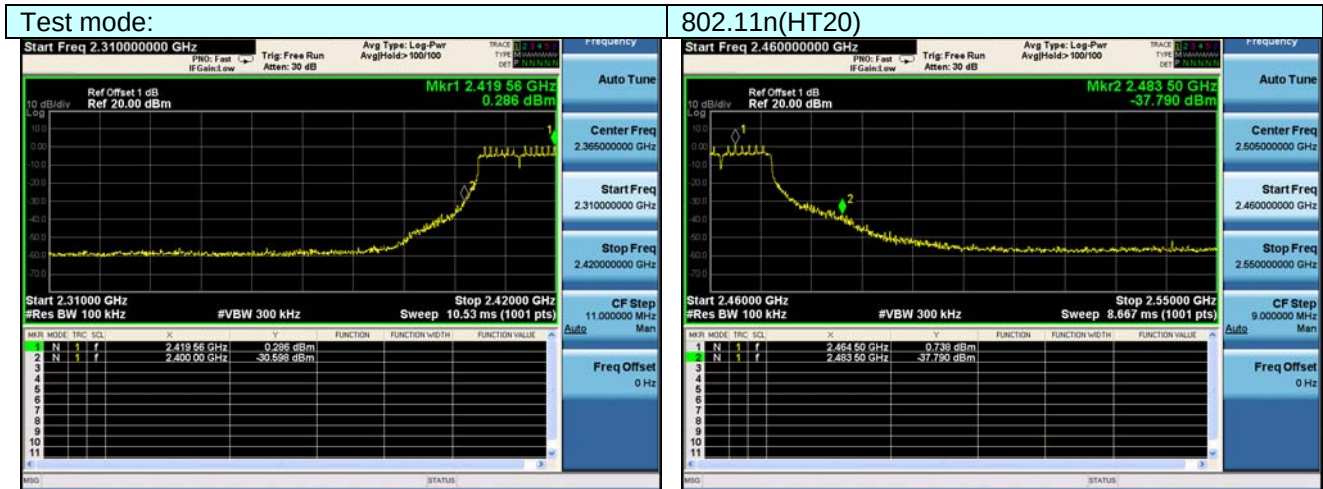
7.6 Band edges

7.6.1 Conducted Emission Method

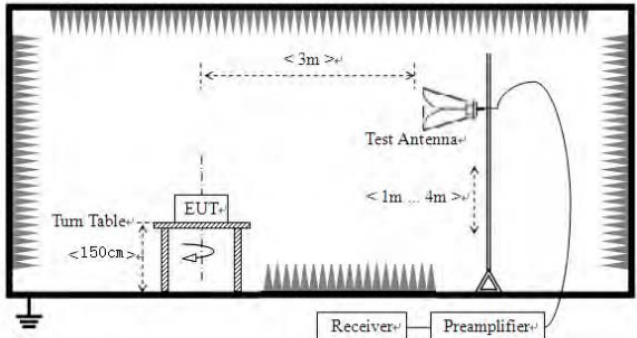
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	Clause 8.7 of KDB558074 D01 DTS Meas Guidance V05r02 and subclause 11.13 of ANSI C63.10
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that 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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test procedure:	The EUT which is powered by the AC Line, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:





7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	Clause 6 of 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
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
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, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 6.0 for details				

Test mode:	Refer to section 5.2 for details
Test results:	Pass

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
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.49	27.91	5.30	24.64	47.06	74.00	-26.94	Horizontal
2400.00	43.78	27.59	5.38	24.71	52.04	74.00	-21.96	Horizontal
2390.00	40.93	27.91	5.30	24.64	49.50	74.00	-24.50	Vertical
2400.00	43.24	27.59	5.38	24.71	51.50	74.00	-22.50	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	25.71	27.91	5.30	24.64	34.28	54.00	-19.72	Horizontal
2400.00	33.24	27.59	5.38	24.71	41.50	54.00	-12.50	Horizontal
2390.00	24.89	27.91	5.30	24.64	33.46	54.00	-20.54	Vertical
2400.00	31.66	27.59	5.38	24.71	39.92	54.00	-14.08	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.61	27.53	5.47	24.80	46.81	74.00	-27.19	Horizontal
2500.00	42.64	27.55	5.49	24.86	50.82	74.00	-23.18	Horizontal
2483.50	38.09	27.53	5.47	24.80	46.29	74.00	-27.71	Vertical
2500.00	38.88	27.55	5.49	24.86	47.06	74.00	-26.94	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.21	27.53	5.47	24.80	42.41	54.00	-11.59	Horizontal
2500.00	35.38	27.55	5.49	24.86	43.56	54.00	-10.44	Horizontal
2483.50	33.73	27.53	5.47	24.80	41.93	54.00	-12.07	Vertical
2500.00	35.90	27.55	5.49	24.86	44.08	54.00	-9.92	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:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	36.08	27.91	5.30	24.64	44.65	74.00	-29.35	Horizontal
2390.00	37.47	27.59	5.38	24.71	45.73	74.00	-28.27	Horizontal
2310.00	37.82	27.91	5.30	24.64	46.39	74.00	-27.61	Vertical
2390.00	37.66	27.59	5.38	24.71	45.92	74.00	-28.08	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	27.67	27.91	5.30	24.64	36.24	54.00	-17.76	Horizontal
2390.00	34.88	27.59	5.38	24.71	43.14	54.00	-10.86	Horizontal
2310.00	29.44	27.91	5.30	24.64	38.01	54.00	-15.99	Vertical
2390.00	35.86	27.59	5.38	24.71	44.12	54.00	-9.88	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.81	27.53	5.47	24.80	47.01	74.00	-26.99	Horizontal
2500.00	37.20	27.55	5.49	24.86	45.38	74.00	-28.62	Horizontal
2483.50	38.84	27.53	5.47	24.80	47.04	74.00	-26.96	Vertical
2500.00	40.70	27.55	5.49	24.86	48.88	74.00	-25.12	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	28.43	27.53	5.47	24.80	36.63	54.00	-17.37	Horizontal
2500.00	25.51	27.55	5.49	24.86	33.69	54.00	-20.31	Horizontal
2483.50	27.36	27.53	5.47	24.80	35.56	54.00	-18.44	Vertical
2500.00	28.67	27.55	5.49	24.86	36.85	54.00	-17.15	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:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	41.46	27.91	5.30	24.64	50.03	74.00	-23.97	Horizontal
2390.00	46.84	27.59	5.38	24.71	55.10	74.00	-18.90	Horizontal
2310.00	43.10	27.91	5.30	24.64	51.67	74.00	-22.33	Vertical
2390.00	41.43	27.59	5.38	24.71	49.69	74.00	-24.31	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	27.19	27.91	5.30	24.64	35.76	54.00	-18.24	Horizontal
2390.00	34.07	27.59	5.38	24.71	42.33	54.00	-11.67	Horizontal
2310.00	28.90	27.91	5.30	24.64	37.47	54.00	-16.53	Vertical
2390.00	27.27	27.59	5.38	24.71	35.53	54.00	-18.47	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	40.31	27.53	5.47	24.80	48.51	74.00	-25.49	Horizontal
2500.00	38.68	27.55	5.49	24.86	46.86	74.00	-27.14	Horizontal
2483.50	40.53	27.53	5.47	24.80	48.73	74.00	-25.27	Vertical
2500.00	40.28	27.55	5.49	24.86	48.46	74.00	-25.54	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	28.59	27.53	5.47	24.80	36.79	54.00	-17.21	Horizontal
2500.00	28.87	27.55	5.49	24.86	37.05	54.00	-16.95	Horizontal
2483.50	28.08	27.53	5.47	24.80	36.28	54.00	-17.72	Vertical
2500.00	28.56	27.55	5.49	24.86	36.74	54.00	-17.26	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:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	37.50	27.91	5.30	24.64	46.07	74.00	-27.93	Horizontal
2390.00	43.37	27.59	5.38	24.71	51.63	74.00	-22.37	Horizontal
2310.00	38.72	27.91	5.30	24.64	47.29	74.00	-26.71	Vertical
2390.00	43.41	27.59	5.38	24.71	51.67	74.00	-22.33	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	27.89	27.91	5.30	24.64	36.46	54.00	-17.54	Horizontal
2390.00	34.86	27.59	5.38	24.71	43.12	54.00	-10.88	Horizontal
2310.00	28.78	27.91	5.30	24.64	37.35	54.00	-16.65	Vertical
2390.00	35.94	27.59	5.38	24.71	44.20	54.00	-9.80	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	42.28	27.53	5.47	24.80	50.48	74.00	-23.52	Horizontal
2500.00	40.50	27.55	5.49	24.86	48.68	74.00	-25.32	Horizontal
2483.50	42.20	27.53	5.47	24.80	50.40	74.00	-23.60	Vertical
2500.00	43.79	27.55	5.49	24.86	51.97	74.00	-22.03	Vertical

Average value:

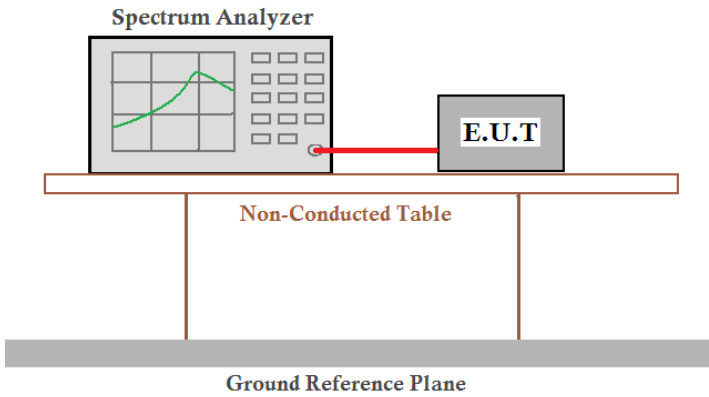
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	32.28	27.53	5.47	24.80	40.48	54.00	-13.52	Horizontal
2500.00	31.83	27.55	5.49	24.86	40.01	54.00	-13.99	Horizontal
2483.50	31.06	27.53	5.47	24.80	39.26	54.00	-14.74	Vertical
2500.00	33.50	27.55	5.49	24.86	41.68	54.00	-12.32	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.

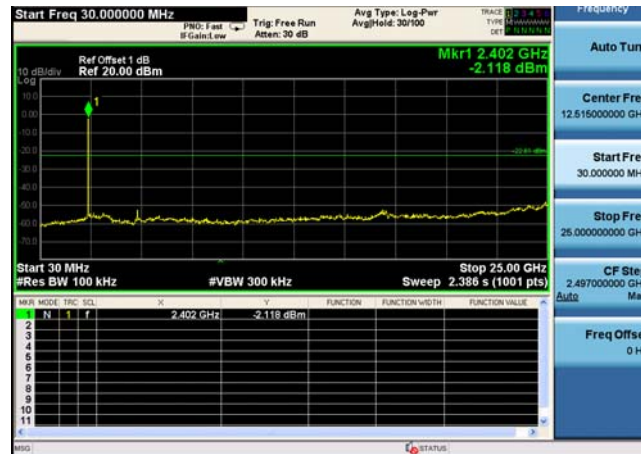
7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	Clause 6 of KDB558074 D01 DTS Meas Guidance V05r02 and subclause 6.7 of ANSI C63.10
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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Procedure:	The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

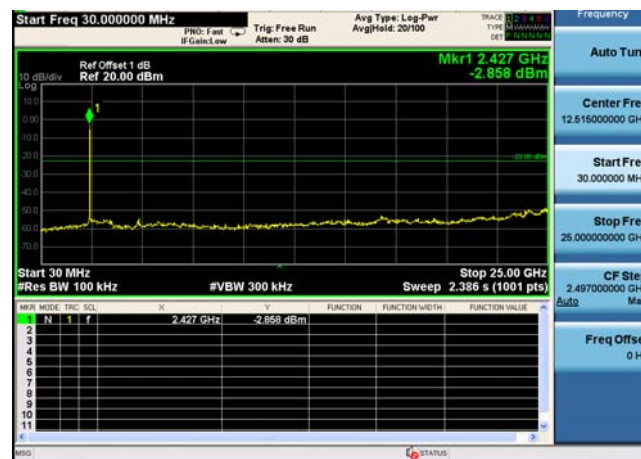
Test plot as follows:

Test mode:	802.11b
Lowest channel	



30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

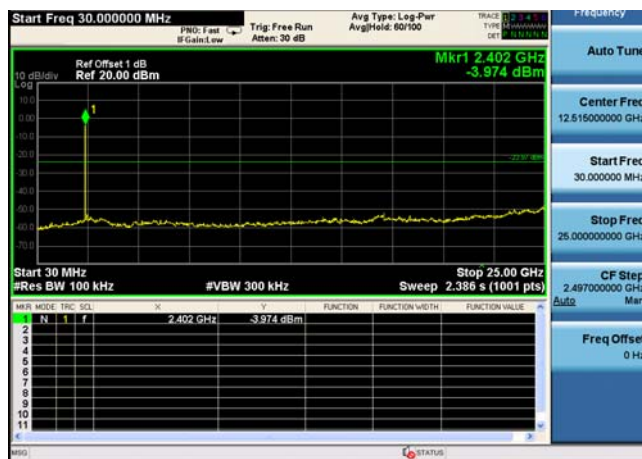


30MHz~25GHz

Test mode:

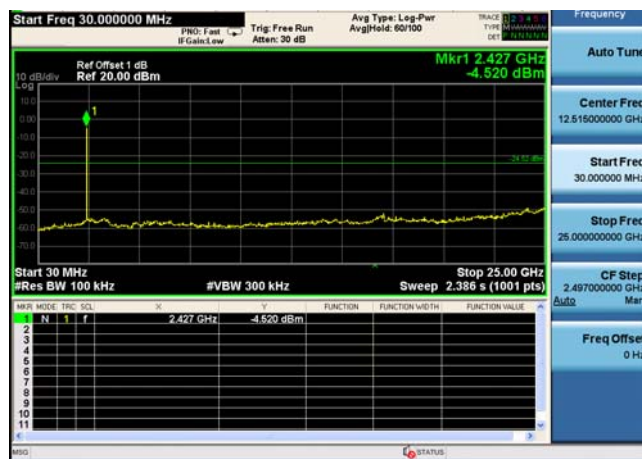
802.11g

Lowest channel



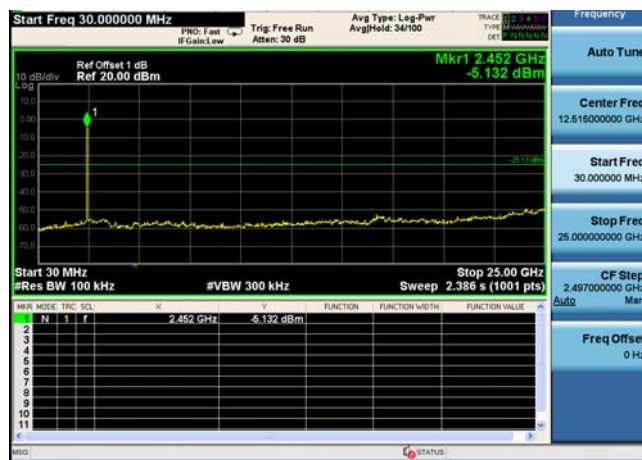
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

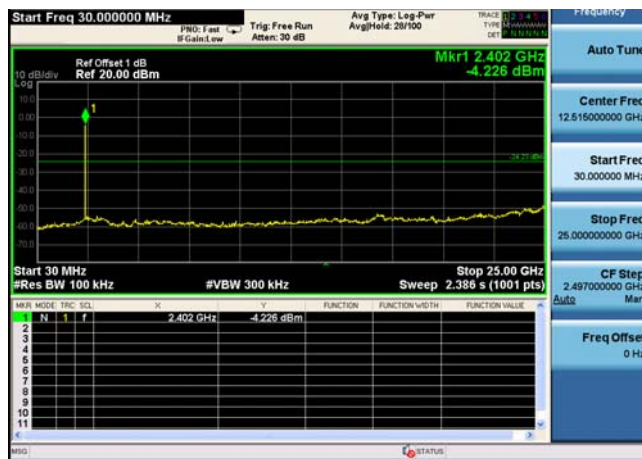


30MHz~25GHz

Test mode:

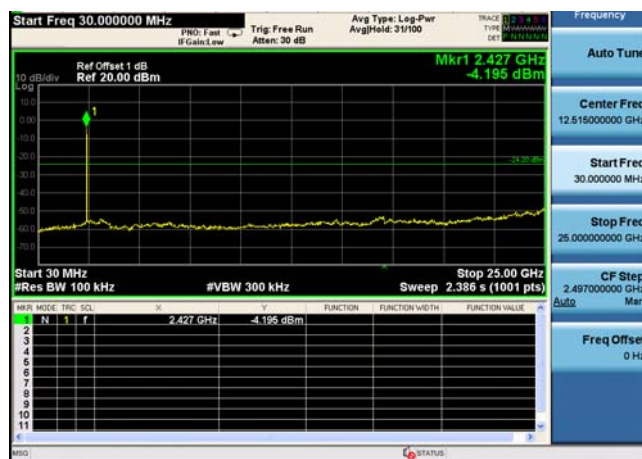
802.11n(HT20)

Lowest channel



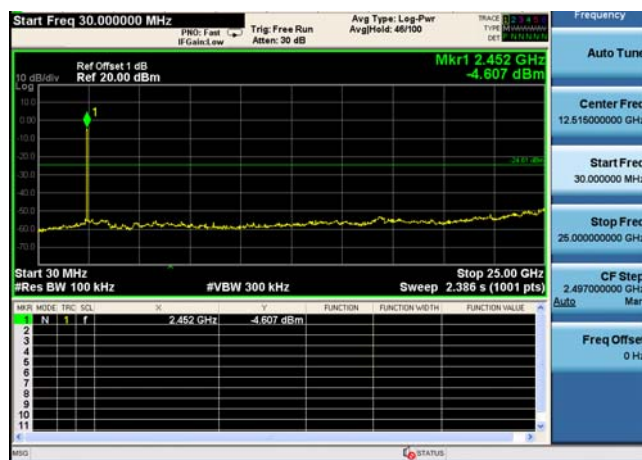
30MHz~25GHz

Middle channel



30MHz~25GHz

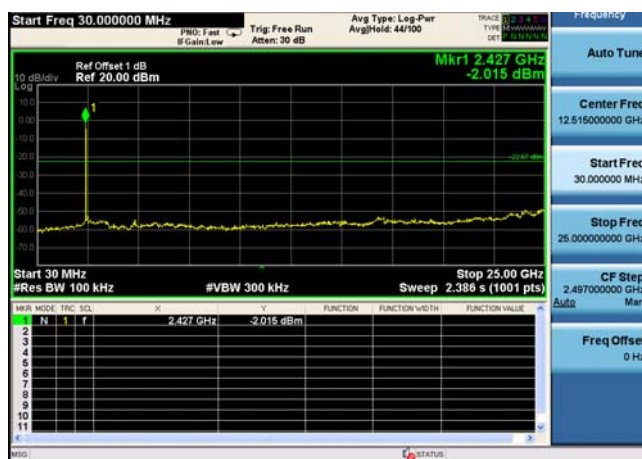
Highest channel



30MHz~25GHz

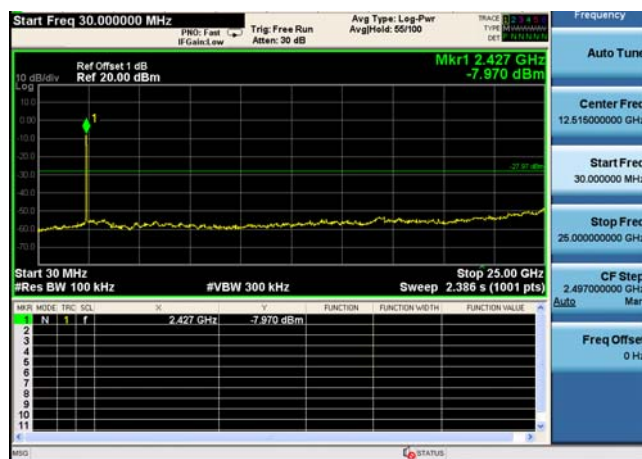
Test mode: 802.11n(HT40)

Lowest channel



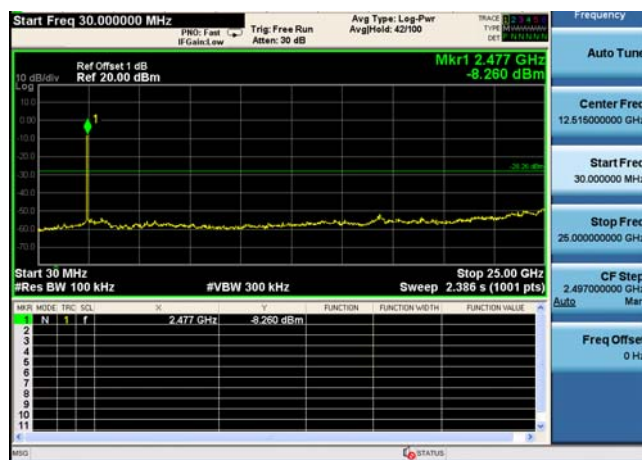
30MHz~25GHz

Middle channel



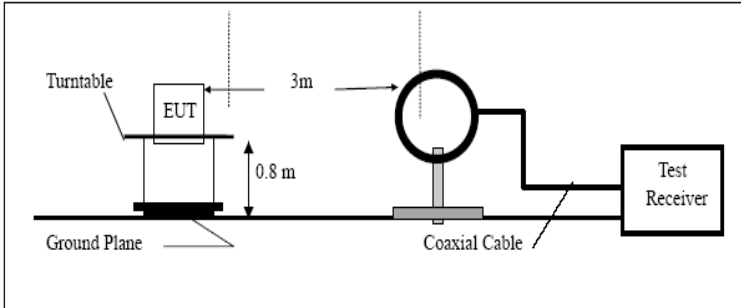
30MHz~25GHz

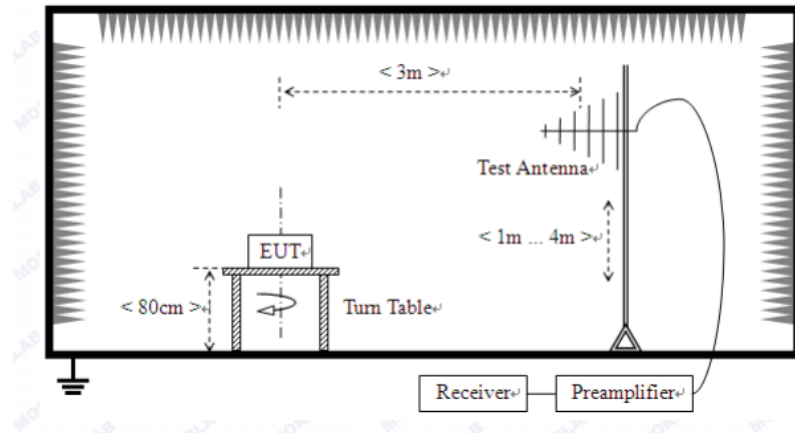
Highest channel



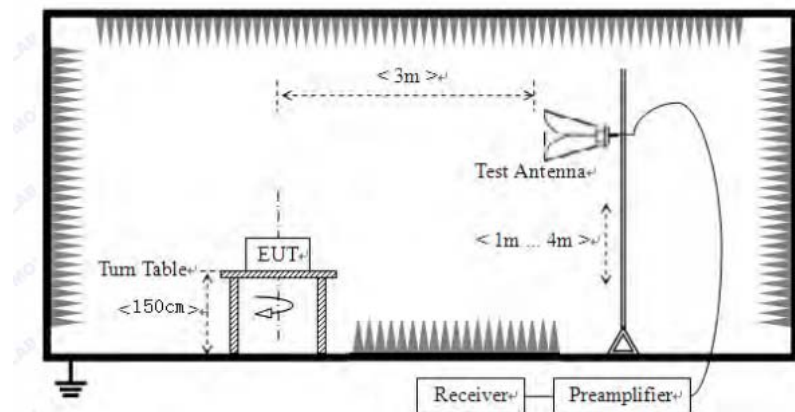
30MHz~25GHz

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	Below 30MHz				
					
Below 1GHz					



Above 1GHz



Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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, quasi-peak or average method as specified and then reported in a data sheet.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
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:

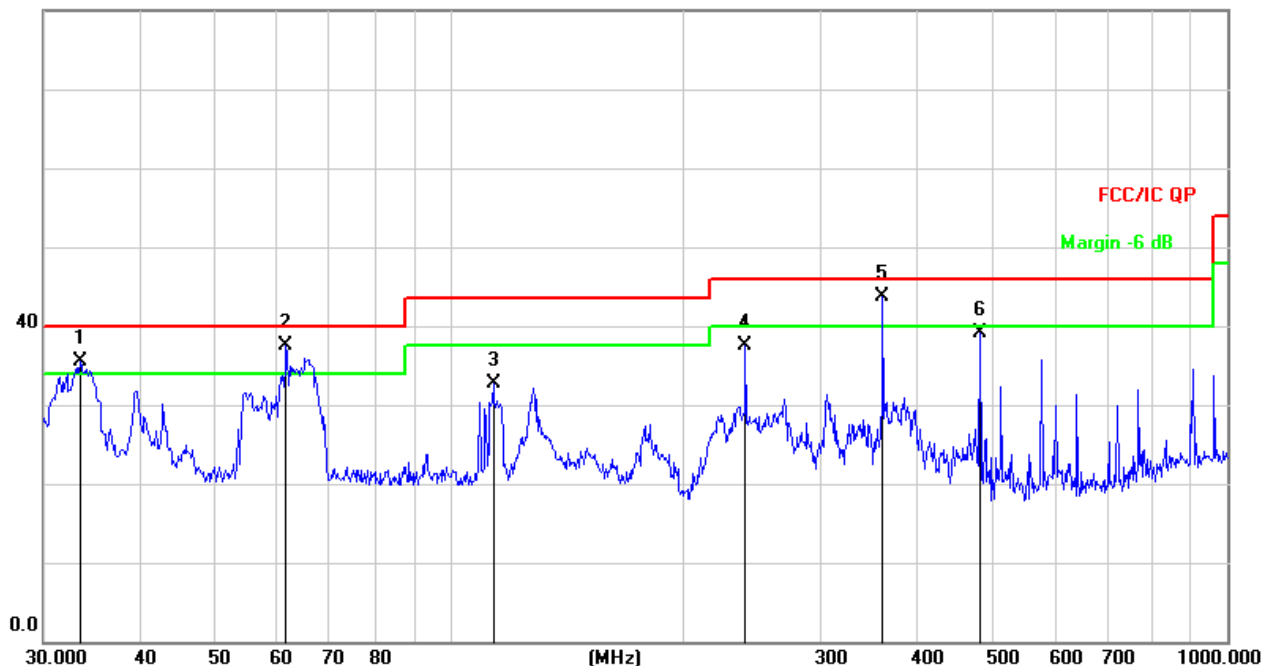
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

■ Below 1GHz

Horizontal:

80.0 dBuV/m

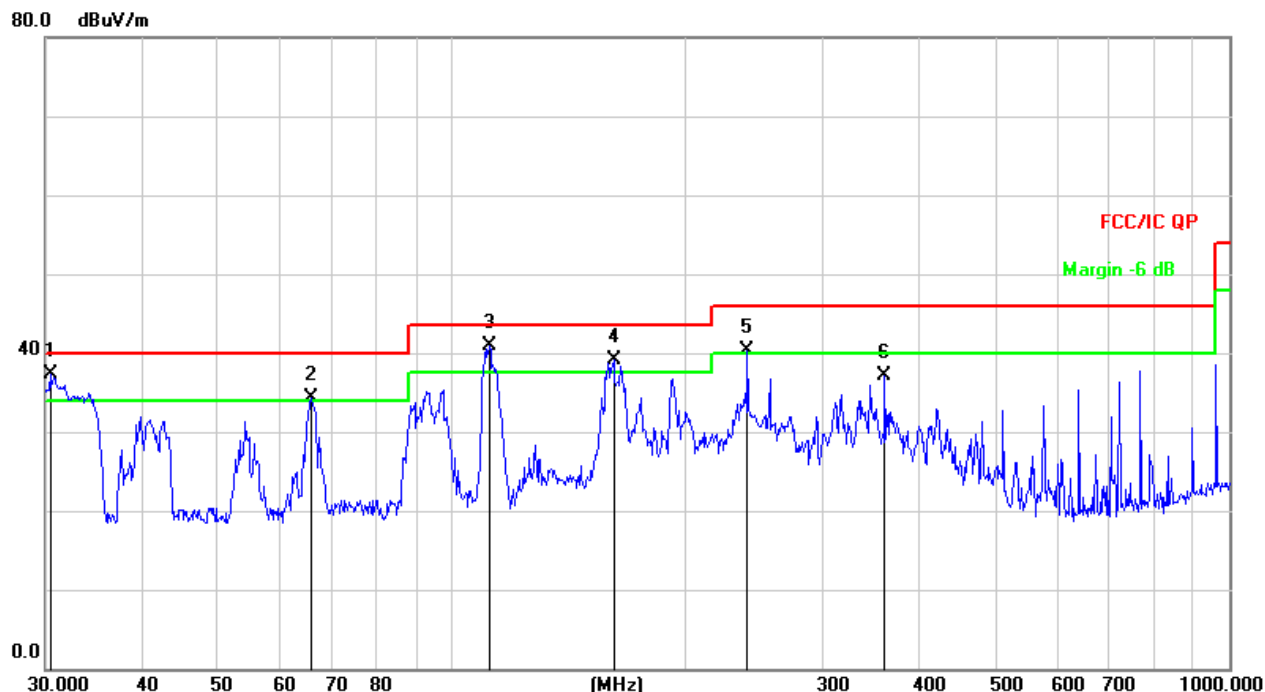


Remark:

1. Final Level = Reading Level + Correct Factor

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	33.4448	53.31	-17.81	35.50	40.00	-4.50	QP
2	!	61.5617	54.07	-16.49	37.58	40.00	-2.42	QP
3		113.7142	49.81	-17.03	32.78	43.50	-10.72	QP
4		239.9874	51.70	-14.12	37.58	46.00	-8.42	QP
5	*	360.4476	54.05	-10.40	43.65	46.00	-2.35	QP
6		480.5276	46.69	-7.68	39.01	46.00	-6.99	QP

Vertical:



Remark:

1. Final Level = Reading Level + Correct Factor

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	!	30.4237	55.09	-17.87	37.22	40.00	-2.78	QP
2	!	65.8031	51.37	-17.09	34.28	40.00	-5.72	QP
3	*	111.7379	56.69	-16.73	39.96	43.50	-3.54	QP
4	!	161.4740	58.03	-18.92	39.11	43.50	-4.39	QP
5	!	239.9874	54.49	-14.12	40.37	46.00	-5.63	QP
6		360.4476	47.52	-10.40	37.12	46.00	-8.88	QP

■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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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	40.23	31.79	8.62	32.10	48.54	74.00	-25.46	Vertical
7236.00	34.31	36.19	11.68	31.97	50.21	74.00	-23.79	Vertical
9648.00	32.82	38.07	14.16	31.56	53.49	74.00	-20.51	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.71	31.79	8.62	32.10	48.02	74.00	-25.98	Horizontal
7236.00	34.06	36.19	11.68	31.97	49.96	74.00	-24.04	Horizontal
9648.00	32.44	38.07	14.16	31.56	53.11	74.00	-20.89	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.69	31.79	8.62	32.10	37.00	54.00	-17.00	Vertical
7236.00	22.51	36.19	11.68	31.97	38.41	54.00	-15.59	Vertical
9648.00	22.03	38.07	14.16	31.56	42.70	54.00	-11.30	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.43	31.79	8.62	32.10	36.74	54.00	-17.26	Horizontal
7236.00	22.17	36.19	11.68	31.97	38.07	54.00	-15.93	Horizontal
9648.00	21.32	38.07	14.16	31.56	41.99	54.00	-12.01	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 – Pre-amplifier Factor
2. “*”, means this data is too weak, instrument of signal is unable to test
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11b	Test channel:	Middle
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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	38.77	31.85	8.66	32.12	47.16	74.00	-26.84	Vertical
7311.00	33.85	36.37	11.71	31.91	50.02	74.00	-23.98	Vertical
9748.00	33.42	38.27	14.25	31.56	54.38	74.00	-19.62	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.17	31.85	8.66	32.12	47.56	74.00	-26.44	Horizontal
7311.00	32.64	36.37	11.71	31.91	48.81	74.00	-25.19	Horizontal
9748.00	33.51	38.27	14.25	31.56	54.47	74.00	-19.53	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.93	31.85	8.66	32.12	38.32	54.00	-15.68	Vertical
7311.00	22.78	36.37	11.71	31.91	38.95	54.00	-15.05	Vertical
9748.00	22.28	38.27	14.25	31.56	43.24	54.00	-10.76	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.40	31.85	8.66	32.12	37.79	54.00	-16.21	Horizontal
7311.00	21.89	36.37	11.71	31.91	38.06	54.00	-15.94	Horizontal
9748.00	23.13	38.27	14.25	31.56	44.09	54.00	-9.91	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.32	31.90	8.70	32.15	52.77	74.00	-21.23	Vertical
7386.00	34.59	36.49	11.76	31.83	51.01	74.00	-22.99	Vertical
9848.00	36.17	38.62	14.31	31.77	57.33	74.00	-16.67	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.25	31.90	8.70	32.15	51.70	74.00	-22.30	Horizontal
7386.00	33.40	36.49	11.76	31.83	49.82	74.00	-24.18	Horizontal
9848.00	32.94	38.62	14.31	31.77	54.10	74.00	-19.90	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.32	31.90	8.70	32.15	44.77	54.00	-9.23	Vertical
7386.00	25.85	36.49	11.76	31.83	42.27	54.00	-11.73	Vertical
9848.00	26.14	38.62	14.31	31.77	47.30	54.00	-6.70	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.07	31.90	8.70	32.15	43.52	54.00	-10.48	Horizontal
7386.00	23.83	36.49	11.76	31.83	40.25	54.00	-13.75	Horizontal
9848.00	23.03	38.62	14.31	31.77	44.19	54.00	-9.81	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.11	31.79	8.62	32.10	48.42	74.00	-25.58	Vertical
7236.00	34.25	36.19	11.68	31.97	50.15	74.00	-23.85	Vertical
9648.00	32.84	38.07	14.16	31.56	53.51	74.00	-20.49	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.76	31.79	8.62	32.10	47.07	74.00	-26.93	Horizontal
7236.00	34.02	36.19	11.68	31.97	49.92	74.00	-24.08	Horizontal
9648.00	32.43	38.07	14.16	31.56	53.10	74.00	-20.90	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.56	31.79	8.62	32.10	36.87	54.00	-17.13	Vertical
7236.00	22.41	36.19	11.68	31.97	38.31	54.00	-15.69	Vertical
9648.00	22.84	38.07	14.16	31.56	43.51	54.00	-10.49	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.75	31.79	8.62	32.10	36.06	54.00	-17.94	Horizontal
7236.00	21.92	36.19	11.68	31.97	37.82	54.00	-16.18	Horizontal
9648.00	21.54	38.07	14.16	31.56	42.21	54.00	-11.79	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 too weak, the instrument of signal is unable to test.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11g	Test channel:	Middle
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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	38.54	31.85	8.66	32.12	46.93	74.00	-27.07	Vertical
7311.00	33.04	36.37	11.71	31.91	49.21	74.00	-24.79	Vertical
9748.00	33.18	38.27	14.25	31.56	54.14	74.00	-19.86	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	32.42	36.37	11.71	31.91	48.59	74.00	-25.41	Horizontal
9748.00	33.07	38.27	14.25	31.56	54.03	74.00	-19.97	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.13	31.85	8.66	32.12	37.52	54.00	-16.48	Vertical
7311.00	22.98	36.37	11.71	31.91	39.15	54.00	-14.85	Vertical
9748.00	22.34	38.27	14.25	31.56	43.30	54.00	-10.70	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.79	31.85	8.66	32.12	38.18	54.00	-15.82	Horizontal
7311.00	21.02	36.37	11.71	31.91	37.19	54.00	-16.81	Horizontal
9748.00	23.37	38.27	14.25	31.56	44.33	54.00	-9.67	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.64	31.90	8.70	32.15	52.09	74.00	-21.91	Vertical
7386.00	34.09	36.49	11.76	31.83	50.51	74.00	-23.49	Vertical
9848.00	36.89	38.62	14.31	31.77	58.05	74.00	-15.95	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.12	31.90	8.70	32.15	51.57	74.00	-22.43	Horizontal
7386.00	33.07	36.49	11.76	31.83	49.49	74.00	-24.51	Horizontal
9848.00	32.69	38.62	14.31	31.77	53.85	74.00	-20.15	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.73	31.90	8.70	32.15	43.18	54.00	-10.82	Vertical
7386.00	24.51	36.49	11.76	31.83	40.93	54.00	-13.07	Vertical
9848.00	24.92	38.62	14.31	31.77	46.08	54.00	-7.92	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.73	31.90	8.70	32.15	42.18	54.00	-11.82	Horizontal
7386.00	22.54	36.49	11.76	31.83	38.96	54.00	-15.04	Horizontal
9848.00	21.86	38.62	14.31	31.77	43.02	54.00	-10.98	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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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	39.50	31.79	8.62	32.10	47.81	74.00	-26.19	Vertical
7236.00	33.76	36.19	11.68	31.97	49.66	74.00	-24.34	Vertical
9648.00	32.23	38.07	14.16	31.56	52.90	74.00	-21.10	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.67	31.79	8.62	32.10	46.98	74.00	-27.02	Horizontal
7236.00	33.45	36.19	11.68	31.97	49.35	74.00	-24.65	Horizontal
9648.00	31.87	38.07	14.16	31.56	52.54	74.00	-21.46	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.25	31.79	8.62	32.10	36.56	54.00	-17.44	Vertical
7236.00	22.39	36.19	11.68	31.97	38.29	54.00	-15.71	Vertical
9648.00	22.84	38.07	14.16	31.56	43.51	54.00	-10.49	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.67	31.79	8.62	32.10	35.98	54.00	-18.02	Horizontal
7236.00	21.26	36.19	11.68	31.97	37.16	54.00	-16.84	Horizontal
9648.00	21.47	38.07	14.16	31.56	42.14	54.00	-11.86	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT20)	Test channel:	Middle
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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	38.51	31.85	8.66	32.12	46.90	74.00	-27.10	Vertical
7311.00	33.64	36.37	11.71	31.91	49.81	74.00	-24.19	Vertical
9748.00	33.18	38.27	14.25	31.56	54.14	74.00	-19.86	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.07	31.85	8.66	32.12	47.46	74.00	-26.54	Horizontal
7311.00	32.32	36.37	11.71	31.91	48.49	74.00	-25.51	Horizontal
9748.00	33.09	38.27	14.25	31.56	54.05	74.00	-19.95	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.40	31.85	8.66	32.12	38.79	54.00	-15.21	Vertical
7311.00	22.97	36.37	11.71	31.91	39.14	54.00	-14.86	Vertical
9748.00	23.44	38.27	14.25	31.56	44.40	54.00	-9.60	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.21	31.85	8.66	32.12	38.60	54.00	-15.40	Horizontal
7311.00	22.42	36.37	11.71	31.91	38.59	54.00	-15.41	Horizontal
9748.00	23.83	38.27	14.25	31.56	44.79	54.00	-9.21	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.16	31.90	8.70	32.15	52.61	74.00	-21.39	Vertical
7386.00	35.88	36.49	11.76	31.83	52.30	74.00	-21.70	Vertical
9848.00	37.30	38.62	14.31	31.77	58.46	74.00	-15.54	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.31	31.90	8.70	32.15	52.76	74.00	-21.24	Horizontal
7386.00	34.06	36.49	11.76	31.83	50.48	74.00	-23.52	Horizontal
9848.00	33.51	38.62	14.31	31.77	54.67	74.00	-19.33	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.72	31.90	8.70	32.15	43.17	54.00	-10.83	Vertical
7386.00	23.93	36.49	11.76	31.83	40.35	54.00	-13.65	Vertical
9848.00	24.79	38.62	14.31	31.77	45.95	54.00	-8.05	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.49	31.90	8.70	32.15	41.94	54.00	-12.06	Horizontal
7386.00	22.02	36.49	11.76	31.83	38.44	54.00	-15.56	Horizontal
9848.00	21.75	38.62	14.31	31.77	42.91	54.00	-11.09	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	39.06	31.81	8.63	32.11	47.39	74.00	-26.61	Vertical
7266.00	33.41	36.28	11.69	31.94	49.44	74.00	-24.56	Vertical
9688.00	31.97	38.13	14.21	31.52	52.79	74.00	-21.21	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.86	31.81	8.63	32.11	46.19	74.00	-27.81	Horizontal
7266.00	33.13	36.28	11.69	31.94	49.16	74.00	-24.84	Horizontal
9688.00	31.59	38.13	14.21	31.52	52.41	74.00	-21.59	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.24	31.81	8.63	32.11	36.57	54.00	-17.43	Vertical
7266.00	22.24	36.28	11.69	31.94	38.27	54.00	-15.73	Vertical
9688.00	22.38	38.13	14.21	31.52	43.20	54.00	-10.80	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.49	31.81	8.63	32.11	35.82	54.00	-18.18	Horizontal
7266.00	21.77	36.28	11.69	31.94	37.80	54.00	-16.20	Horizontal
9688.00	21.39	38.13	14.21	31.52	42.21	54.00	-11.79	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT40)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.30	31.85	8.66	32.12	46.69	74.00	-27.31	Vertical
7311.00	33.76	36.37	11.71	31.91	49.93	74.00	-24.07	Vertical
9748.00	33.19	38.27	14.25	31.56	54.15	74.00	-19.85	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.24	31.85	8.66	32.12	46.63	74.00	-27.37	Horizontal
7311.00	32.28	36.37	11.71	31.91	48.45	74.00	-25.55	Horizontal
9748.00	33.06	38.27	14.25	31.56	54.02	74.00	-19.98	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.67	31.85	8.66	32.12	38.06	54.00	-15.94	Vertical
7311.00	22.40	36.37	11.71	31.91	38.57	54.00	-15.43	Vertical
9748.00	22.82	38.27	14.25	31.56	43.78	54.00	-10.22	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.89	31.85	8.66	32.12	38.28	54.00	-15.72	Horizontal
7311.00	21.76	36.37	11.71	31.91	37.93	54.00	-16.07	Horizontal
9748.00	23.19	38.27	14.25	31.56	44.15	54.00	-9.85	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Test mode:	802.11n(HT40)	Test channel:	Highest
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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	43.45	31.88	8.68	32.13	51.88	74.00	-22.12	Vertical
7356.00	34.10	36.45	11.75	31.86	50.44	74.00	-23.56	Vertical
9808.00	36.30	38.43	14.29	31.68	57.34	74.00	-16.66	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.92	31.88	8.68	32.13	51.35	74.00	-22.65	Horizontal
7356.00	33.60	36.45	11.75	31.86	49.94	74.00	-24.06	Horizontal
9808.00	32.51	38.43	14.29	31.68	53.55	74.00	-20.45	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.47	31.88	8.68	32.13	42.90	54.00	-11.10	Vertical
7356.00	23.81	36.45	11.75	31.86	40.15	54.00	-13.85	Vertical
9808.00	24.85	38.43	14.29	31.68	45.89	54.00	-8.11	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.14	31.88	8.68	32.13	41.57	54.00	-12.43	Horizontal
7356.00	22.38	36.45	11.75	31.86	38.72	54.00	-15.28	Horizontal
9808.00	21.76	38.43	14.29	31.68	42.80	54.00	-11.20	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.
3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

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