Report No.: GTS201812000159F01

FCC REPORT

Applicant:	Huizhou Tuoying Technology Limited Company
Address of Applicant:	Second Floor No.1 Factory, Lianhong Industrial Park, Sanhe Development Zone, Huiyang District, Huizhou City, China
Manufacturer/Factory:	Huizhou Tuoying Technology Limited Company
Address of Manufacturer/Factory:	Second Floor No.1 Factory, Lianhong Industrial Park, Sanhe Development Zone, Huiyang District, Huizhou City, China
Equipment Under Test (EUT)	
Product Name:	Fold four axis Toy UAV
Model No.:	TE-F360
Trade Mark:	TOPE
FCC ID:	2ASBP-TE-F360
Applicable standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of sample receipt:	December 26, 2018
Date of Test:	December 27, 2018-January 12, 2019
Date of report issue:	January 15, 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	*January 15, 2019*	*Original*

Prepared By: ***Date:*** *January 15, 2019*

Project Engineer

Check By: ***Date:*** *January 15, 2019*

Reviewer

3 Contents

Page

1 COVER PAGE 1

2 VERSION 2

3 CONTENTS 3

4 TEST SUMMARY 4

4.1 MEASUREMENT UNCERTAINTY 4

5 GENERAL INFORMATION 5

5.1 GENERAL DESCRIPTION OF EUT 5
5.2 TEST MODE 6
5.3 TEST FACILITY 6
5.4 TEST LOCATION 7
5.5 DESCRIPTION OF SUPPORT UNITS 7
5.6 DEVIATION FROM STANDARDS 7
5.7 ADDITIONAL INSTRUCTIONS 7

6 TEST INSTRUMENTS LIST 8

7 TEST RESULTS AND MEASUREMENT DATA 10

7.1 ANTENNA REQUIREMENT: 10
7.2 CONDUCTED EMISSIONS 11
7.3 EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH 14
7.4 PEAK TRANSMIT POWER 18
7.5 POWER SPECTRAL DENSITY 21
7.6 BAND EDGE 26
7.7 RADIATED EMISSION 29
7.8 FREQUENCY STABILITY 37

8 TEST SETUP PHOTO 39

9 EUT CONSTRUCTIONAL DETAILS 39

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 40GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. Remark: Test according to ANSI C63.10:2013 and ANSI C63.4:2014			

5 General Information

5.1 General Description of EUT

Product Name:	Fold four axis Toy UAV
Model No.:	TE-F360
Test sample(s) ID:	GTS201812000159-1
Sample(s) Status:	Engineer sample
Operation Frequency:	802.11a/n(HT20): 5180-5240MHz
Modulation technology:	OFDM MIMO: 802.11n SISO: 802.11a
Antenna Type:	Integral Antenna
Antenna gain:	2.16dBi
Power supply:	DC 7.6V 4000mAh 34.8Wh

Channel list for 802.11a/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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

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

Mode	Data rate
802.11a/n(HT20)	6/6.5 Mbps

5.3 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.

- **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.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

- **CNAS (No. CNAS L5775)**

CNAS has accredited Global United Technology Services Co., Ltd., to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

5.4 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, sBaoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Additional Instructions

Special test software provide by manufacturer, power set default

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. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019
21	Breitband horn antenna	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. 27 2018	June. 26 2019

Conducted Emission						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
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. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

RF Conducted:						
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. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

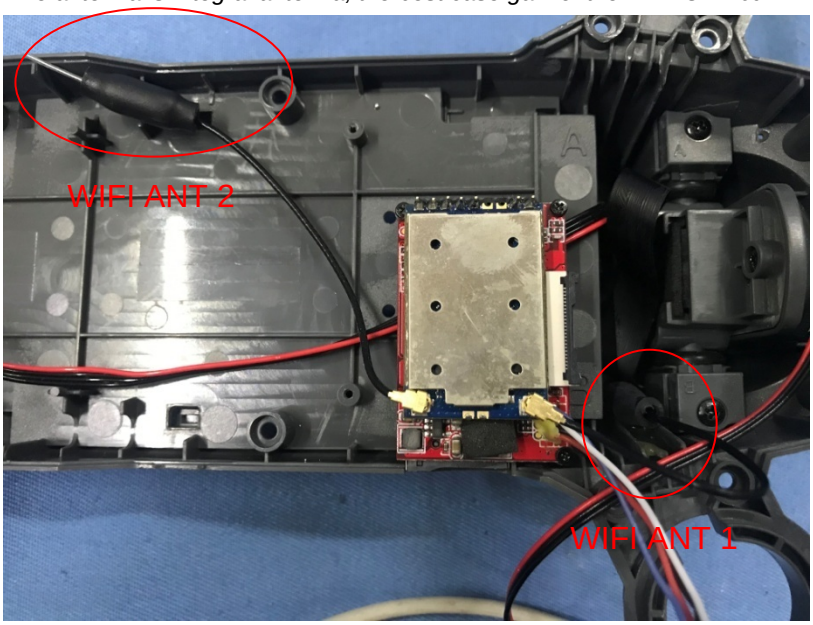
General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019

7 Test results and Measurement Data

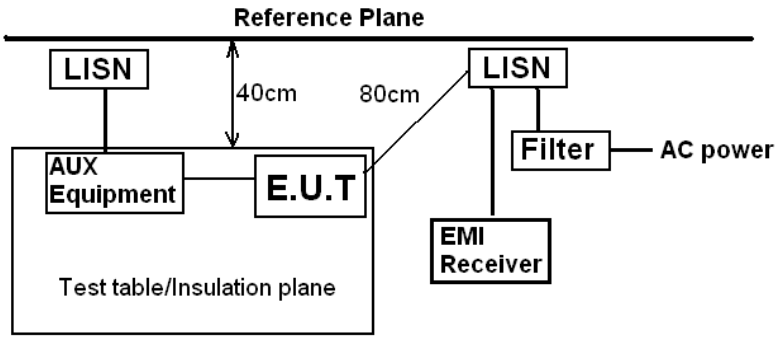
7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
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.*	
E.U.T Antenna:	

The antenna is Integral antenna, the best case gain of the ANT is 2.16dBi



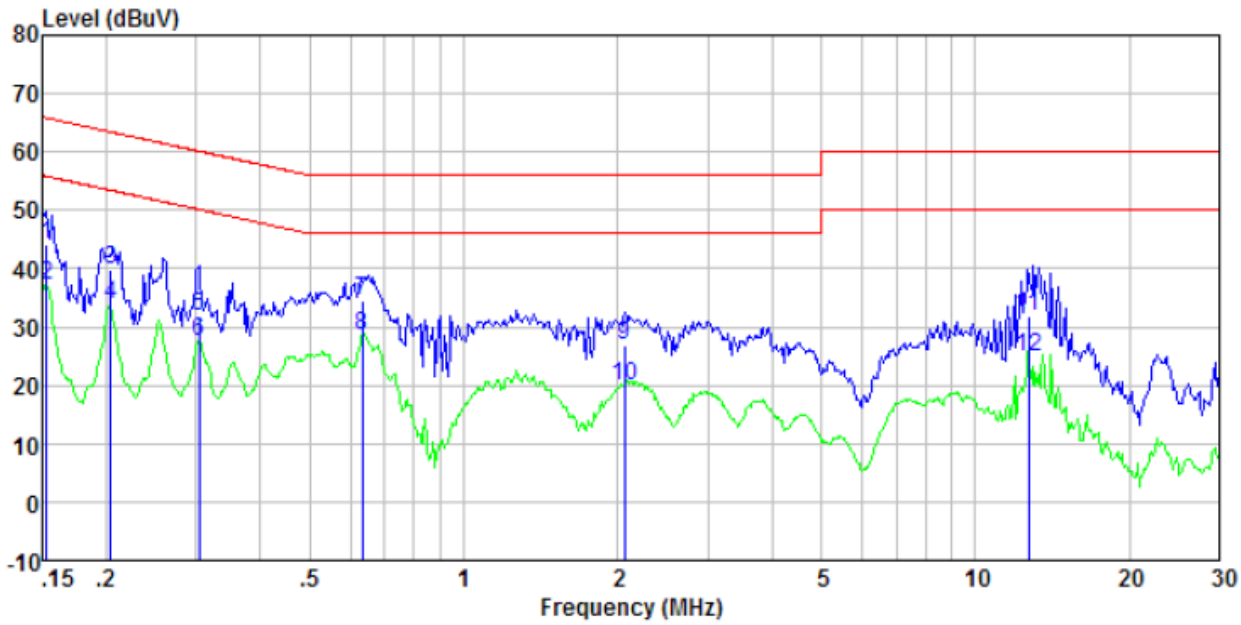
7.2 Conducted Emissions

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
Limit:	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 * Decreases with the logarithm of the frequency.
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers 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 setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
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: Both high and low voltages have been tested to show only the worst low voltage test data.

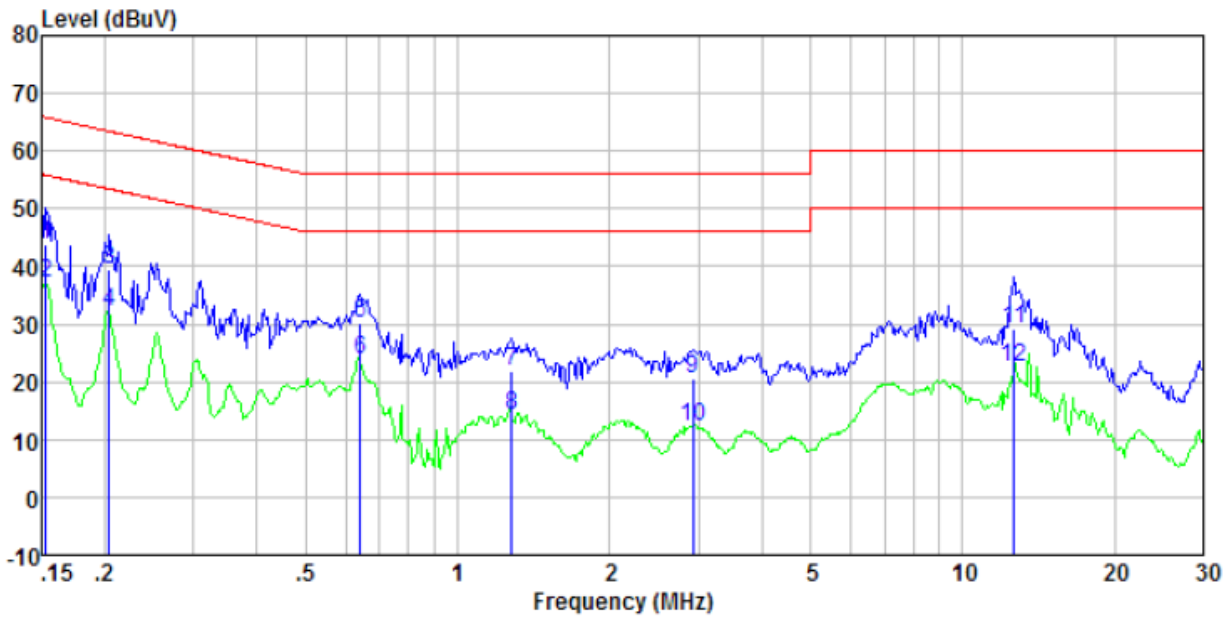
Measurement data:

Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	43.81	0.40	0.07	44.28	65.82	-21.54	QP
0.15	36.77	0.40	0.07	37.24	55.82	-18.58	Average
0.20	39.39	0.40	0.11	39.90	63.45	-23.55	QP
0.20	33.24	0.40	0.11	33.75	53.45	-19.70	Average
0.30	31.22	0.40	0.10	31.72	60.15	-28.43	QP
0.30	27.14	0.40	0.10	27.64	50.15	-22.51	Average
0.63	34.19	0.28	0.12	34.59	56.00	-21.41	QP
0.63	28.19	0.28	0.12	28.59	46.00	-17.41	Average
2.07	26.40	0.20	0.18	26.78	56.00	-29.22	QP
2.07	19.53	0.20	0.18	19.91	46.00	-26.09	Average
12.72	31.38	0.20	0.21	31.79	60.00	-28.21	QP
12.72	24.35	0.20	0.21	24.76	50.00	-25.24	Average

Neutral:

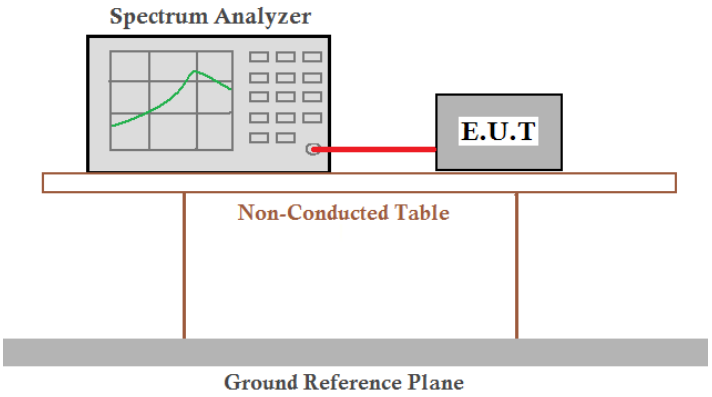


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.15	43.44	0.40	0.07	43.91	65.82	-21.91	QP
0.15	36.72	0.40	0.07	37.19	55.82	-18.63	Average
0.20	39.03	0.40	0.11	39.54	63.45	-23.91	QP
0.20	31.76	0.40	0.11	32.27	53.45	-21.18	Average
0.64	29.83	0.27	0.12	30.22	56.00	-25.78	QP
0.64	23.33	0.27	0.12	23.72	46.00	-22.28	Average
1.28	21.53	0.20	0.16	21.89	56.00	-34.11	QP
1.28	13.95	0.20	0.16	14.31	46.00	-31.69	Average
2.93	20.21	0.20	0.19	20.60	56.00	-35.40	QP
2.93	11.88	0.20	0.19	12.27	46.00	-33.73	Average
12.65	28.88	0.20	0.21	29.29	60.00	-30.71	QP
12.65	22.15	0.20	0.21	22.56	50.00	-27.44	Average

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss*

7.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

ANT 1:

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Occupied Bandwidth (MHz)	
		802.11a	802.11n(HT20)	802.11a	802.11n(HT20)
36	5180.00	16.6291	16.4735	21.886	20.206
40	5200.00	16.4902	16.4362	20.645	20.030
48	5240.00	16.5267	16.4709	20.584	20.466

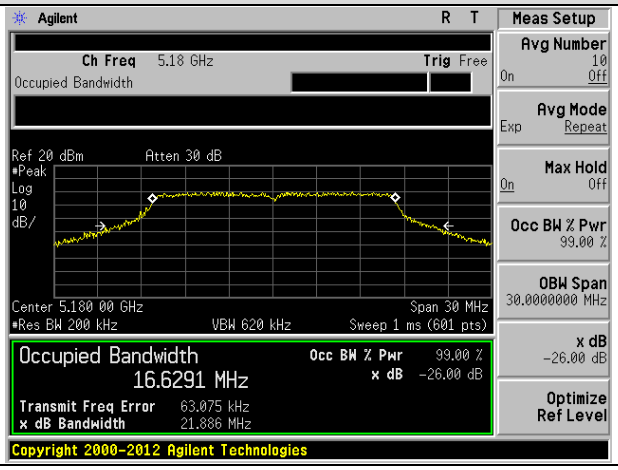
ANT 2:

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Occupied Bandwidth (MHz)	
		802.11a	802.11n(HT20)	802.11a	802.11n(HT20)
36	5180.00	16.4899	16.4930	21.269	20.793
40	5200.00	16.4915	16.4498	20.590	20.181
48	5240.00	16.5072	16.4554	20.711	20.484

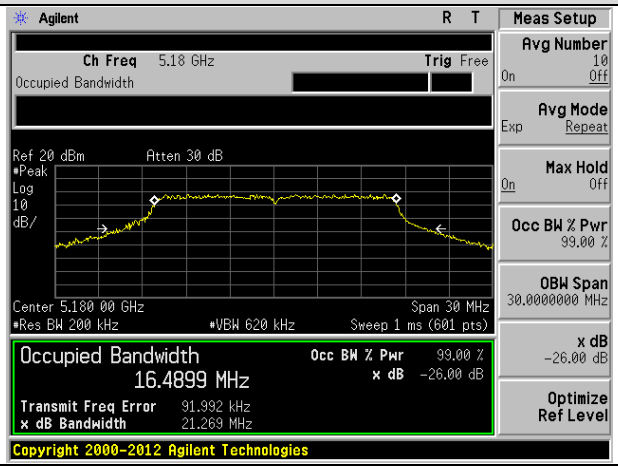
Test plots as followed:

802.11a mode

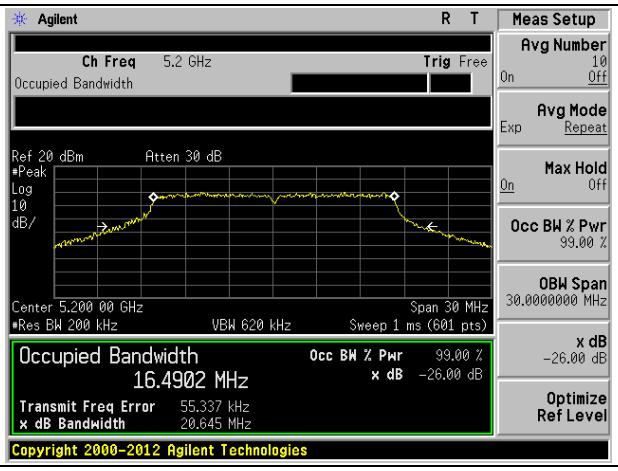
ANT 1

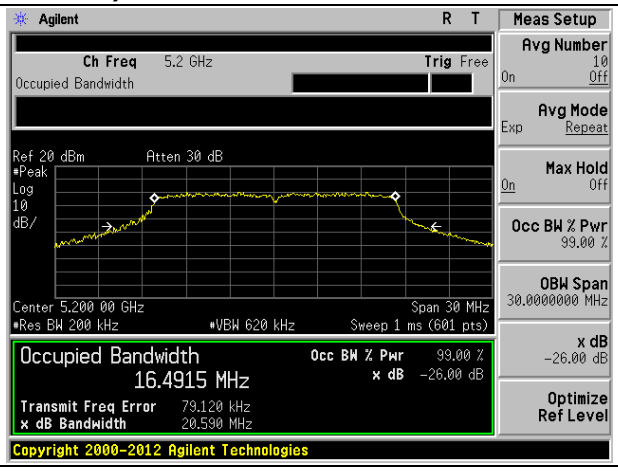


ANT 2

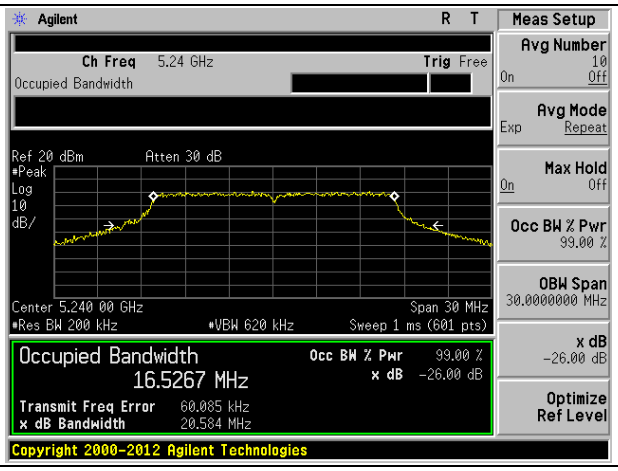


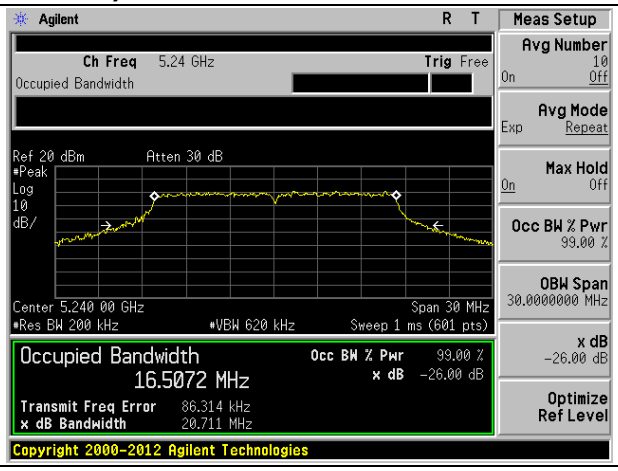
Channel 36 (5180MHz)





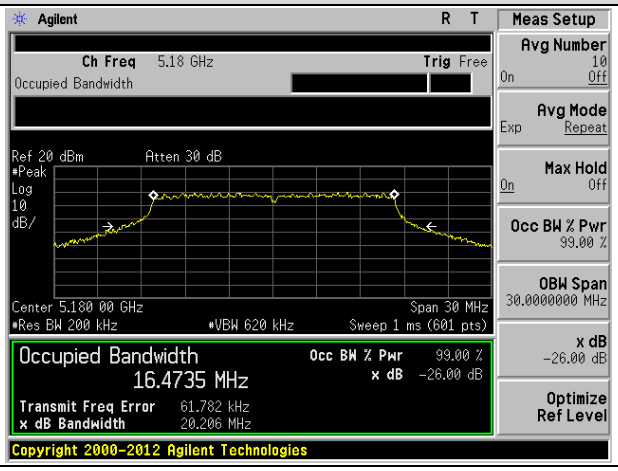
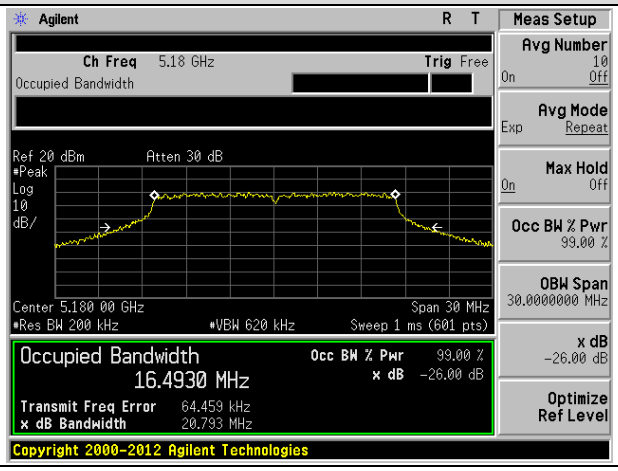
Channel 40 (5200MHz)



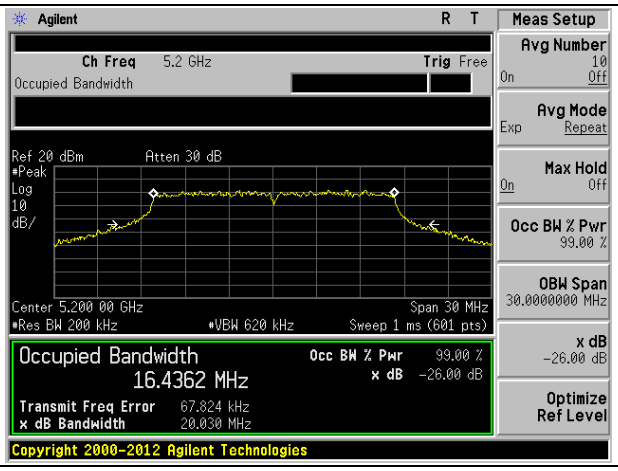
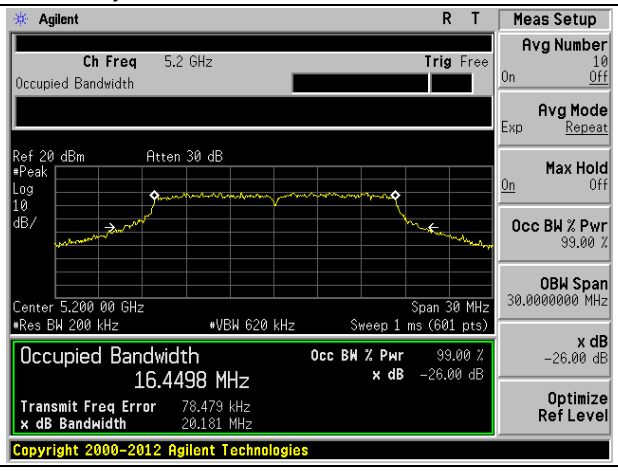


Channel 48 (5240MHz)

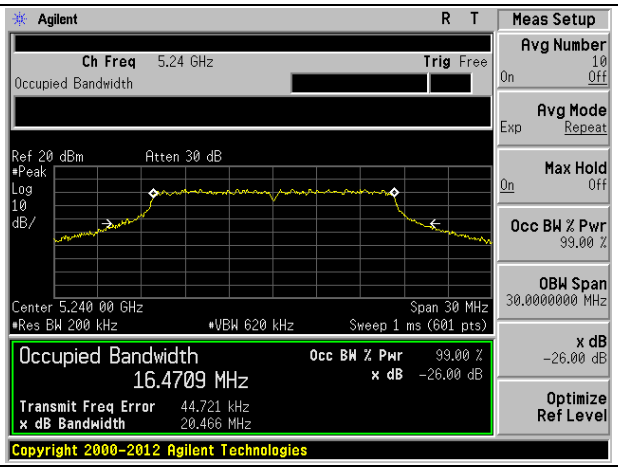
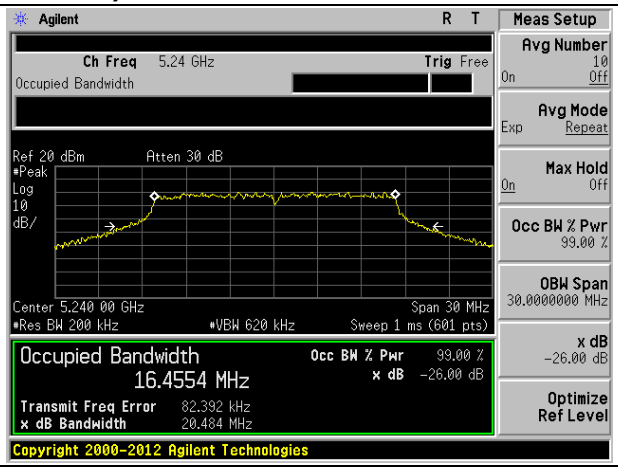
802.11n(HT20) mode

ANT 1	ANT 2
	

Channel 36 (5180MHz)

Channel 40 (5200MHz)

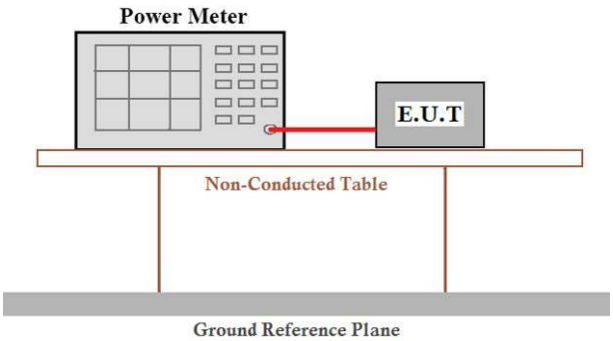
Channel 48 (5240MHz)

7.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	

Frequency band (MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(23.98dBm) for client device
5250-5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*
Remark: *Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.	

Test setup:



Test procedure:

Measurement using an RF average power meter

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied

a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).

Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Modulation	Duty cycle	Duty Factor
802.11a	98.8%	0.05
802.11n(HT20)	98.8%	0.05

ANT 1:

802.11a mode						
CH No.	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result
36	5180.00	13.28	0.05	13.31	24	Pass
40	5200.00	13.84	0.05	13.89	24	Pass
48	5240.00	14.46	0.05	14.51	24	Pass

802.11n(HT20) mode						
CH No.	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result
36	5180.00	12.99	0.05	13.04	24	Pass
40	5200.00	14.28	0.05	14.31	24	Pass
48	5240.00	15.35	0.05	15.40	24	Pass

Note: Output Power = Measured Power + Duty Factor
Duty Factor = 10 log (1/Duty Cycle)

ANT 2:

802.11a mode						
CH No.	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result
36	5180.00	12.56	0.05	12.61	24	Pass
40	5200.00	14.22	0.05	14.27	24	Pass
48	5240.00	14.74	0.05	14.79	24	Pass

802.11n(HT20) mode						
CH No.	Frequency (MHz)	Measured	Duty Factor	Total Output Power (dBm)	Limit (dBm)	Result
36	5180.00	12.97	0.05	13.02	24	Pass
40	5200.00	12.57	0.05	12.62	24	Pass
48	5240.00	12.87	0.05	12.92	24	Pass

Note: Output Power = Measured Power + Duty Factor
Duty Factor = 10 log (1/Duty Cycle)

MIMO without beam forming:

Test mode	Frequency (MHz)	ANT 1 power (dBm)	ANT 2 power (dBm)	MIMO power (dBm)	Limit (dBm)	Result
802.11n(HT20)	5180.00	12.99	12.97	15.99	24	Pass
	5200.00	14.28	12.57	16.52		
	5240.00	15.35	12.87	17.29		

Note: transmit signals are completely un*correlated*,

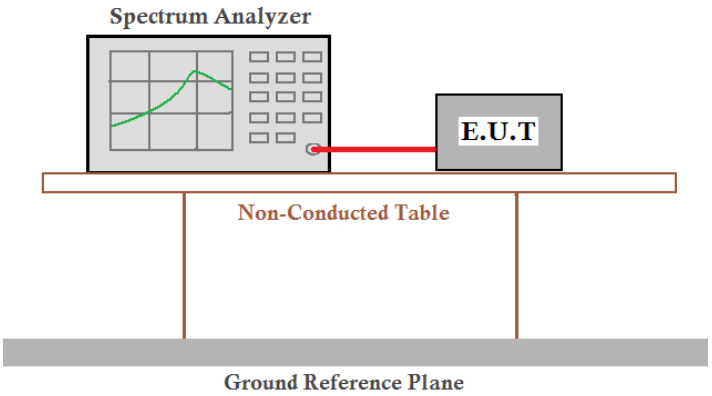
Directional gain=10 x log [($10^{2.16/10}$ + $10^{2.16/10}$)/2]=2.16dBi

According to 15.407(a) The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

EIRP:

Test mode	Frequency (MHz)	ANT 1 EIRP (dBm)	ANT 2 EIRP (dBm)	MIMO EIRP (dBm)	Limit (dBm)	Result
802.11a	5180.00	15.92	15.22	---	21	Pass
	5200.00	16.5	16.88	---		
	5240.00	17.12	17.4	---		
802.11n(HT20)	5180.00	15.65	15.63	18.6		
	5200.00	16.92	15.23	19.13		
	5240.00	18.01	15.53	19.9		

7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	<table><tr><th>Frequency band (MHz)</th><th>Limit</th></tr><tr><td rowspan="2">5150-5250</td><td>≤17dBm in 1MHz for master device</td></tr><tr><td>≤11dBm in 1MHz for client device</td></tr><tr><td>5250-5350</td><td>≤11dBm in 1MHz for client device</td></tr><tr><td>5470-5725</td><td>≤11dBm in 1MHz for client device</td></tr><tr><td colspan="2">Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr></table>
Test setup:	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power…”. 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Modulation	Duty cycle	Duty Factor
802.11a	98.8%	0.05
802.11n(HT20)	98.8%	0.05

ANT 1:

802.11a mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	2.33	2.38	11.00	Pass
40	5200.00	3.29	3.34	11.00	Pass
48	5240.00	4.86	4.91	11.00	Pass

802.11n(HT20) mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	3.81	3.86	11.00	Pass
40	5200.00	5.82	5.87	11.00	Pass
48	5240.00	7.68	7.73	11.00	Pass

Note: Output Power = Measured Power + Duty Factor
Duty Factor = 10 log (1/Duty Cycle)

ANT 2:

802.11a mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	2.52	2.57	11.00	Pass
40	5200.00	3.75	3.80	11.00	Pass
48	5240.00	5.00	5.05	11.00	Pass

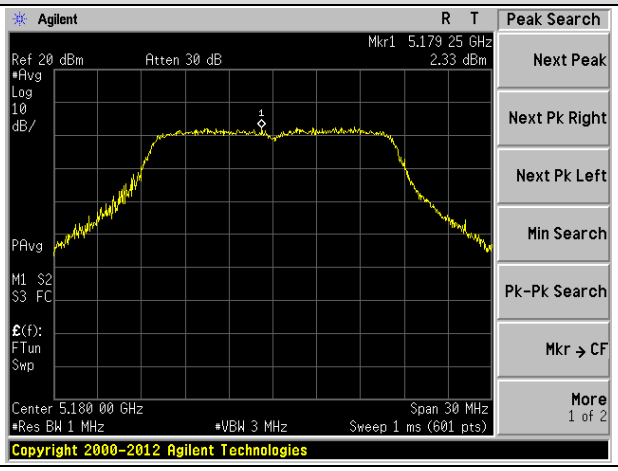
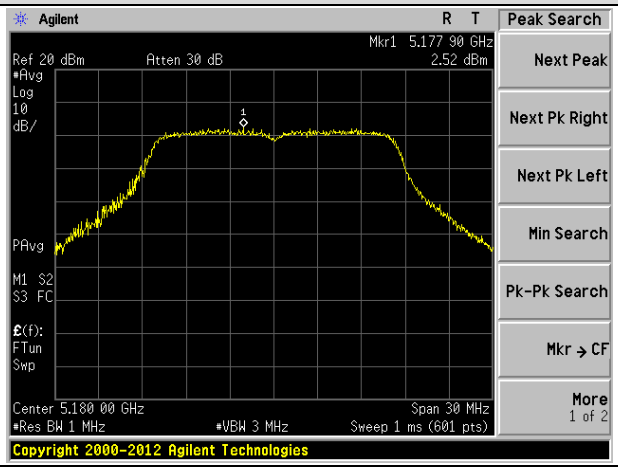
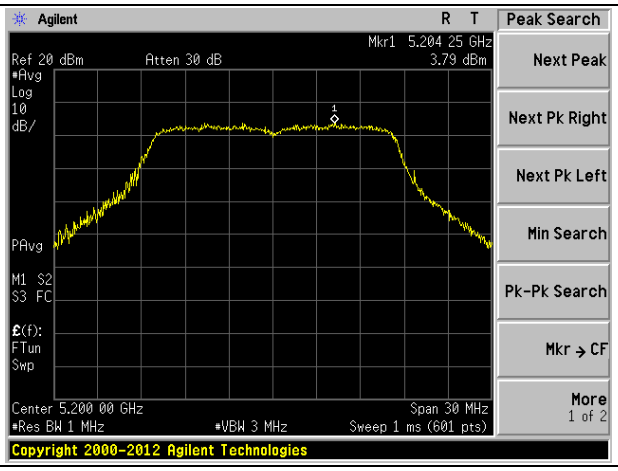
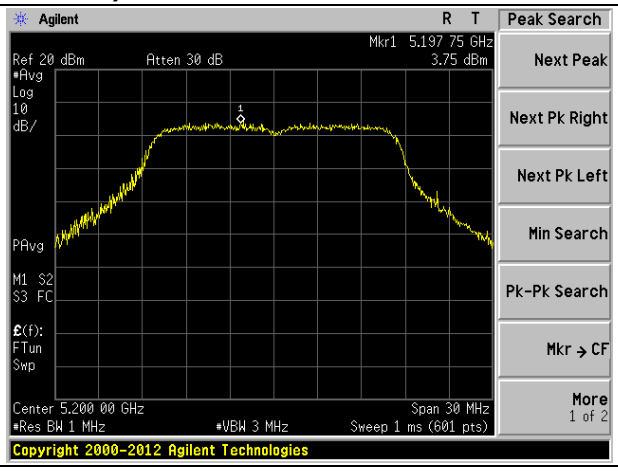
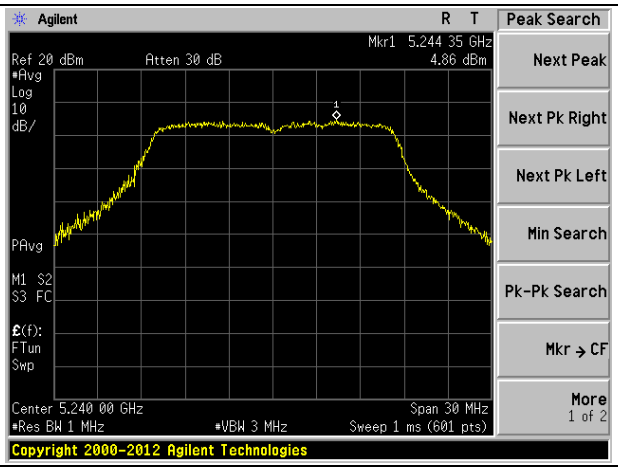
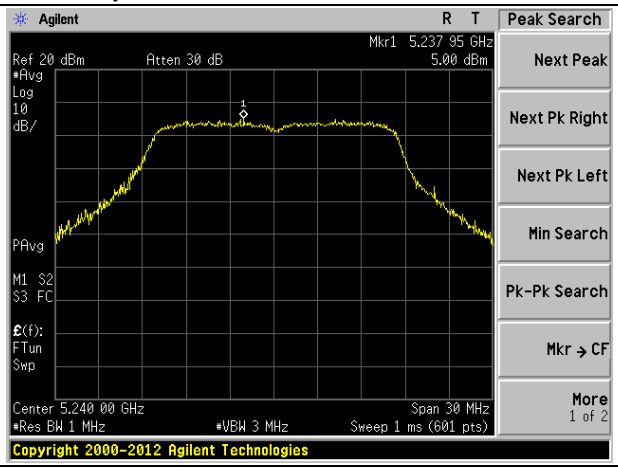
802.11n(HT20) mode					
Channel No.	Frequency (MHz)	Measured PPSD (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180.00	4.86	4.91	11.00	Pass
40	5200.00	4.20	4.27	11.00	Pass
48	5240.00	4.17	4.22	11.00	Pass

Note: Output Power = Measured Power + Duty Factor
Duty Factor = 10 log (1/Duty Cycle)

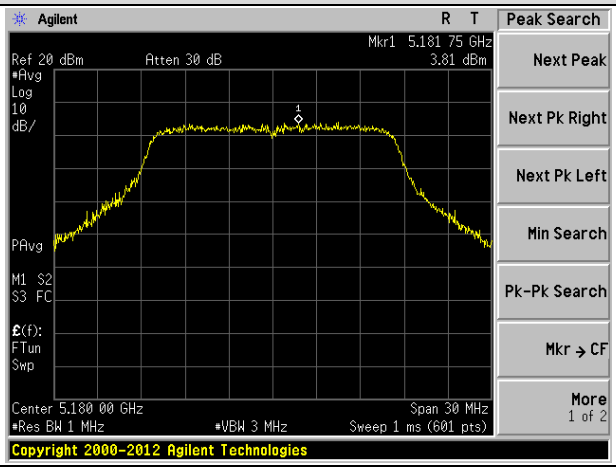
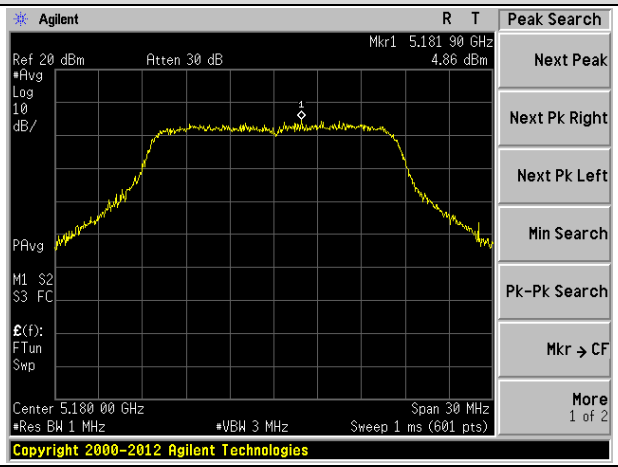
MIMO without beam forming:

Test mode	Frequency (MHz)	ANT A PSD (dBm/MHz)	ANT B PSD (dBm/MHz)	MIMO (dBm/MHz)	Limit (dBm/MHz)	Result
802.11n(HT20)	5180.00	3.81	4.86	3.52	11	Pass
	5200.00	5.82	4.20	4.42		
	5240.00	7.68	4.17	7.03		

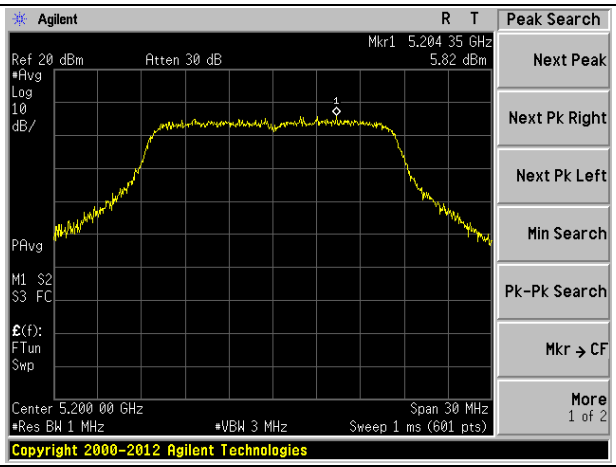
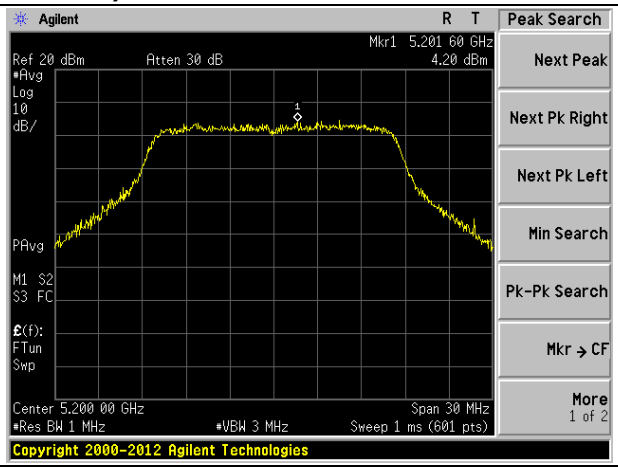
Test plots as followed:

802.11a mode	
ANT 1	**ANT 2**
	
Channel 36 (5180MHz)	
	
Channel 40 (5200MHz)	
	
Channel 48 (5240MHz)	

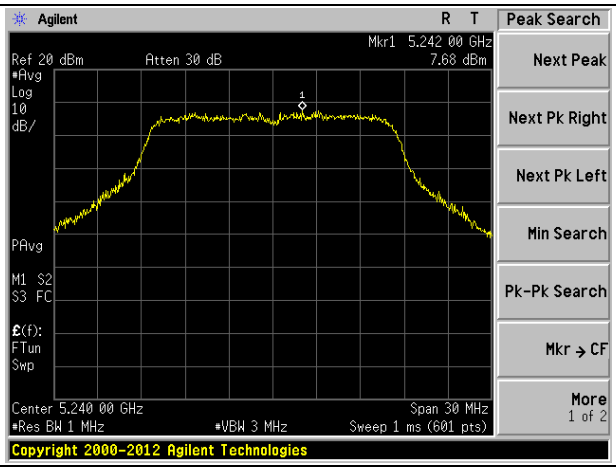
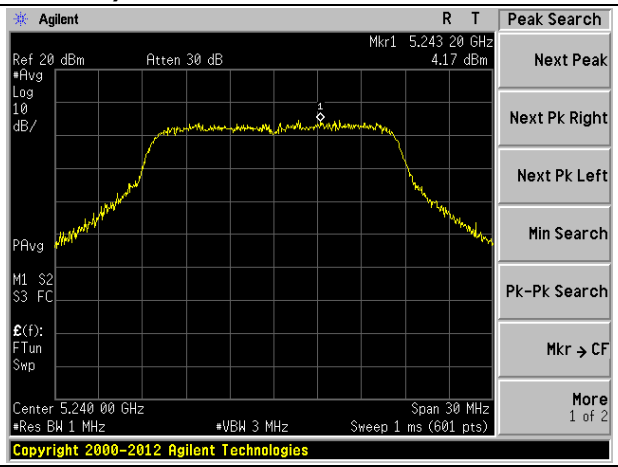
802.11n(HT20) mode

ANT 1	ANT 2
	

Channel 36 (5180MHz)

Channel 40 (5200MHz)

Channel 48 (5240MHz)

7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205
Test Method:	ANSI C63.10:2013
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Receiver setup:	

Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	AV	1MHz	3MHz	Average Value

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	68.2	Peak Value

Undesirable emission limits:

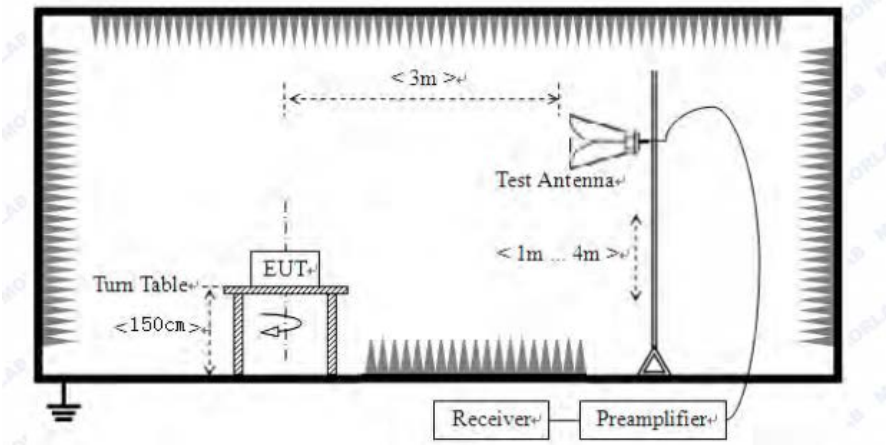
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.

(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.

Test Procedure:

a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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.
d. 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 rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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 setup:	For radiated emissions above 1GHz 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
5. *According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:*
   E[dBuV/m] = EIRP[dBm] + 95.2;
   For example, if EIRP = -27dBm
   E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Measurement Data:

802.11a				PK				
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
5150.00	46.19	32.07	8.99	37.49	49.76	74.00	-24.24	Horizontal
5350.00	45.81	31.75	9.29	37.20	49.65	74.00	-24.35	Horizontal
5150.00	45.24	32.07	8.99	37.49	48.81	74.00	-25.19	Vertical
5350.00	44.95	31.75	9.29	37.20	48.79	74.00	-25.21	Vertical

802.11a				AV				
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
5150.00	34.52	32.07	8.99	37.49	38.09	54.00	-15.91	Horizontal
5350.00	33.92	31.75	9.29	37.20	37.76	54.00	-16.24	Horizontal
5150.00	34.71	32.07	8.99	37.49	38.28	54.00	-15.72	Vertical
5350.00	34.78	31.75	9.29	37.20	38.62	54.00	-15.38	Vertical

802.11n(HT20)				PK				
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
5150.00	46.99	32.07	8.99	37.49	50.56	74.00	-23.44	Horizontal
5350.00	44.24	31.75	9.29	37.20	48.08	74.00	-25.92	Horizontal
5150.00	45.86	32.07	8.99	37.49	49.43	74.00	-24.57	Vertical
5350.00	46.46	31.75	9.29	37.20	50.30	74.00	-23.70	Vertical

802.11n(HT20)				AV				
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
5150.00	35.38	32.07	8.99	37.49	38.95	54.00	-15.05	Horizontal
5350.00	34.03	31.75	9.29	37.20	37.87	54.00	-16.13	Horizontal
5150.00	35.23	32.07	8.99	37.49	38.80	54.00	-15.20	Vertical
5350.00	35.08	31.75	9.29	37.20	38.92	54.00	-15.08	Vertical

7.7 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 40GHz
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	AV	1MHz	3MHz	Average Value

Limit:

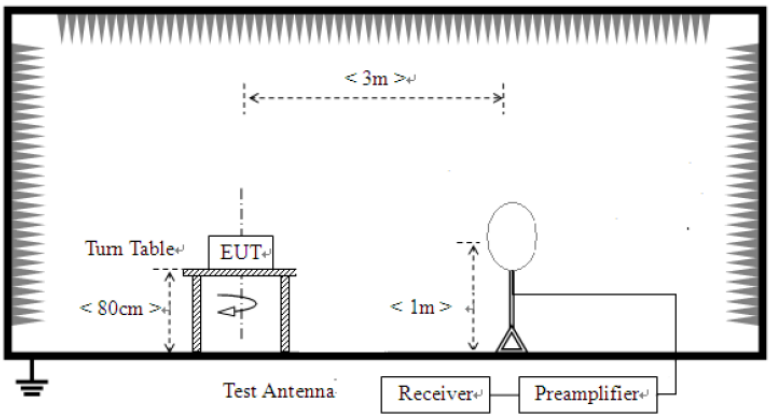
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	300m
1.705MHz-30MHz	30	QP	30m
30MHz-88MHz	100	QP	3m
88MHz-216MHz	150	QP	
216MHz-960MHz	200	QP	
960MHz-1GHz	500	QP	
Above 1GHz	500	Average	
	5000	Peak	

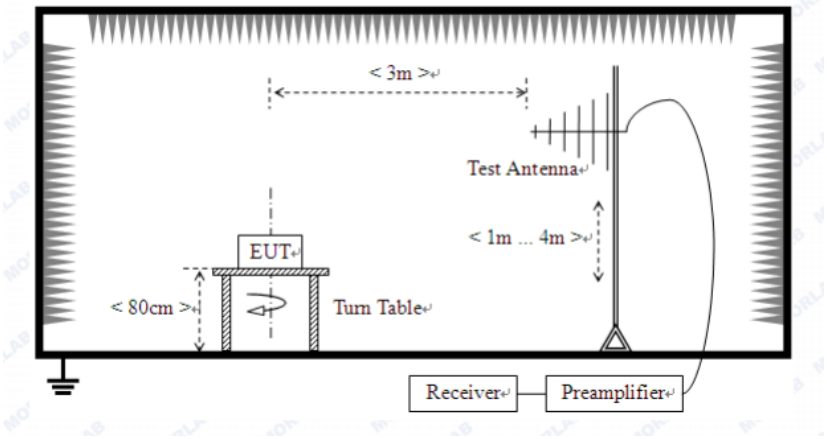
Test Procedure:

Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:
1>.Below 1GHz test procedure:

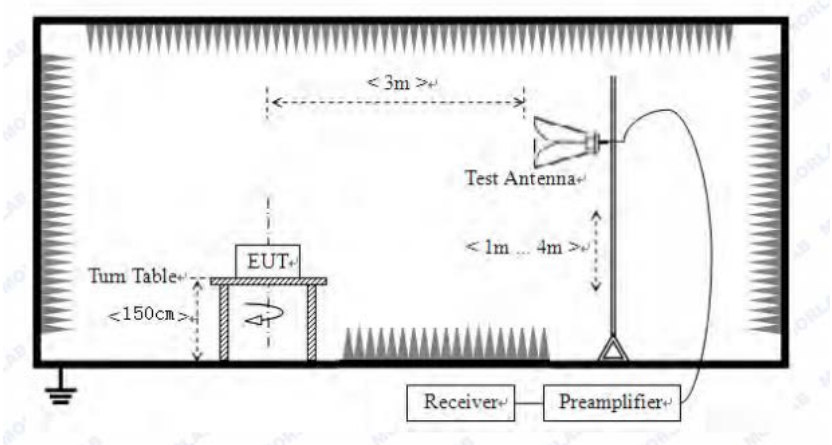
1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable 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.

2>.Above 1GHz test procedure:

	1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	For radiated emissions from 9kHz to 30MHz  For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Instruments:	Refer to section 5.10 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					

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

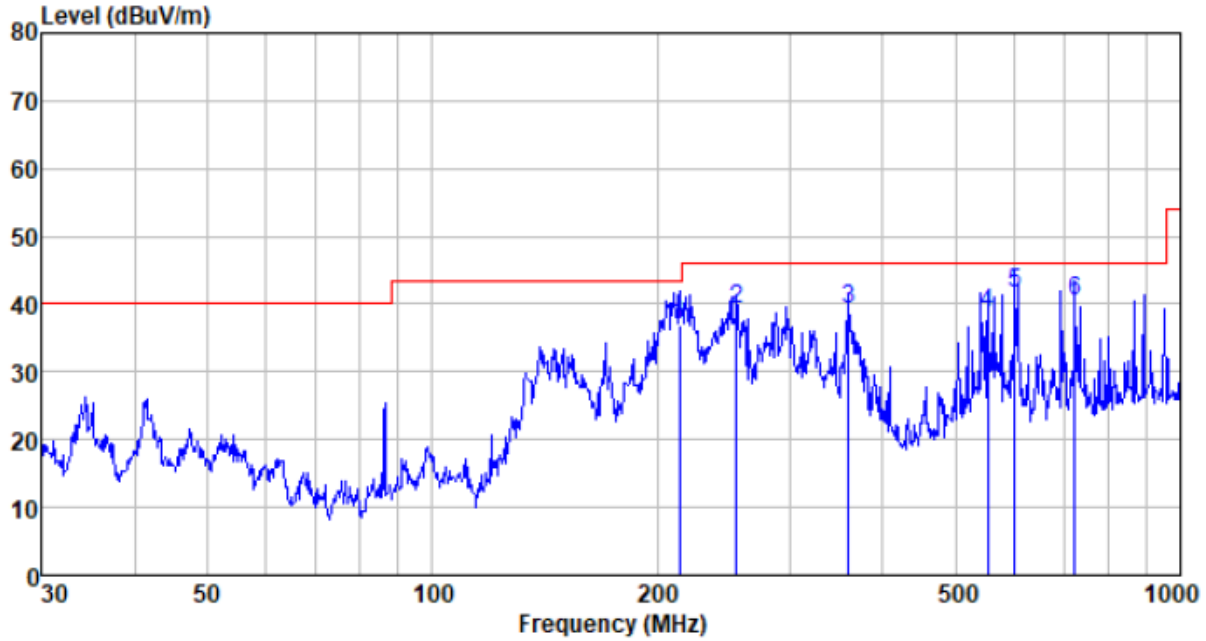
Measurement Data:

9 kHz ~ 30 MHz

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.

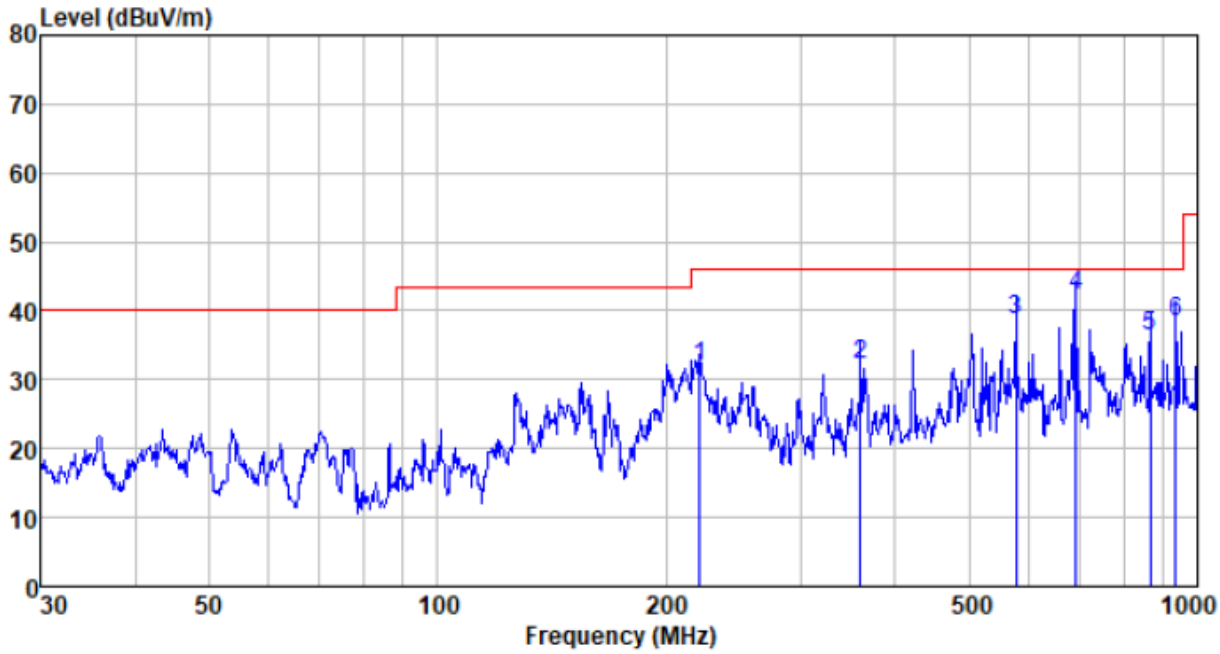
30MHz~ 1GHz

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
213.763	61.29	10.91	1.92	37.34	36.78	43.50	-6.72	QP
254.728	62.22	12.29	2.15	37.38	39.28	46.00	-6.72	QP
360.448	59.33	14.70	2.67	37.48	39.22	46.00	-6.78	QP
552.883	54.23	18.51	3.53	37.53	38.74	46.00	-7.26	QP
601.427	56.06	19.50	3.73	37.54	41.75	46.00	-4.25	QP
721.726	53.73	20.03	4.17	37.63	40.30	46.00	-5.70	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
221.392	55.94	11.20	1.97	37.35	31.76	46.00	-14.24	QP
360.448	52.39	14.70	2.67	37.48	32.28	46.00	-13.72	QP
576.644	53.72	19.00	3.63	37.53	38.82	46.00	-7.18	QP
691.987	56.22	19.59	4.06	37.62	42.25	46.00	-3.75	QP
866.088	47.32	21.99	4.73	37.61	36.43	46.00	-9.57	QP
935.546	48.57	22.45	4.99	37.57	38.44	46.00	-7.56	QP

Above 1GHz:

802.11a 5180MHz

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
10360.00	30.42	39.67	14.62	32.65	52.06	74.00	-21.94	Vertical
15540.00	32.75	38.6	17.66	34.46	54.55	74.00	-19.45	Vertical
10360.00	33.09	39.67	14.62	32.65	54.73	74.00	-19.27	Horizontal
15540.00	31.64	38.6	17.66	34.46	53.44	74.00	-20.56	Horizontal
10360.00	21.73	39.67	14.62	32.65	43.37	54.00	-10.63	Vertical
15540.00	21.83	38.6	17.66	34.46	43.63	54.00	-10.37	Vertical
10360.00	22.35	39.67	14.62	32.65	43.99	54.00	-10.01	Horizontal
15540.00	23.16	38.6	17.66	34.46	44.96	54.00	-9.04	Horizontal

802.11a 5200MHz

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
10400.00	32.79	39.75	14.63	32.71	54.46	74.00	-19.54	Vertical
15600.00	32.17	38.33	17.67	34.17	54.00	74.00	-20.00	Vertical
10400.00	30.37	39.75	14.63	32.71	52.04	74.00	-21.96	Horizontal
15600.00	32.98	38.33	17.67	34.17	54.81	74.00	-19.19	Horizontal
10400.00	23.71	39.75	14.63	32.71	45.38	54.00	-8.62	Vertical
15600.00	20.69	38.33	17.67	34.17	42.52	54.00	-11.48	Vertical
10400.00	20.95	39.75	14.63	32.71	42.62	54.00	-11.38	Horizontal
15600.00	23.49	38.33	17.67	34.17	45.32	54.00	-8.68	Horizontal

802.11a 5240MHz

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
10480.00	29.01	39.82	14.68	32.86	50.65	74.00	-23.35	Vertical
15720.00	33.76	38.09	17.73	33.66	55.92	74.00	-18.08	Vertical
10480.00	32.80	39.82	14.68	32.86	54.44	74.00	-19.56	Horizontal
15720.00	33.87	38.09	17.73	33.66	56.03	74.00	-17.97	Horizontal
10480.00	22.13	39.82	14.68	32.86	43.77	54.00	-10.23	Vertical
15720.00	20.34	38.09	17.73	33.66	42.5	54.00	-11.5	Vertical
10480.00	21.1	39.82	14.68	32.86	42.74	54.00	-11.26	Horizontal
15720.00	21.18	38.09	17.73	33.66	43.34	54.00	-10.66	Horizontal

802.11n(HT20) 5180MHz

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
10360.00	30.09	39.67	14.62	32.65	51.73	74.00	-22.27	Vertical
15540.00	33.38	38.6	17.66	34.46	55.18	74.00	-18.82	Vertical
10360.00	29.98	39.67	14.62	32.65	51.62	74.00	-22.38	Horizontal
15540.00	33.02	38.6	17.66	34.46	54.82	74.00	-19.18	Horizontal
10360.00	21.91	39.67	14.62	32.65	43.55	54.00	-10.45	Vertical
15540.00	20.29	38.6	17.66	34.46	42.09	54.00	-11.91	Vertical
10360.00	21.88	39.67	14.62	32.65	43.52	54.00	-10.48	Horizontal
15540.00	21.76	38.6	17.66	34.46	43.56	54.00	-10.44	Horizontal

802.11n(HT20) 5200MHz

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
10400.00	33.91	39.75	14.63	32.71	55.58	74.00	-18.42	Vertical
15600.00	32.81	38.33	17.67	34.17	54.64	74.00	-19.36	Vertical
10400.00	31.32	39.75	14.63	32.71	52.99	74.00	-21.01	Horizontal
15600.00	32.24	38.33	17.67	34.17	54.07	74.00	-19.93	Horizontal
10400.00	22.81	39.75	14.63	32.71	44.48	54.00	-9.52	Vertical
15600.00	20.26	38.33	17.67	34.17	42.09	54.00	-11.91	Vertical
10400.00	22.57	39.75	14.63	32.71	44.24	54.00	-9.76	Horizontal
15600.00	23.78	38.33	17.67	34.17	45.61	54.00	-8.39	Horizontal

802.11n(HT20) 5240MHz

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
10480.00	31.40	39.82	14.68	32.86	53.04	74.00	-20.96	Vertical
15720.00	30.09	38.09	17.73	33.66	52.25	74.00	-21.75	Vertical
10480.00	29.31	39.82	14.68	32.86	50.95	74.00	-23.05	Horizontal
15720.00	29.89	38.09	17.73	33.66	52.05	74.00	-21.95	Horizontal
10480.00	22.83	39.82	14.68	32.86	44.47	54.00	-9.53	Vertical
15720.00	20.33	38.09	17.73	33.66	42.49	54.00	-11.51	Vertical
10480.00	22.3	39.82	14.68	32.86	43.94	54.00	-10.06	Horizontal
15720.00	20.34	38.09	17.73	33.66	42.5	54.00	-11.5	Horizontal

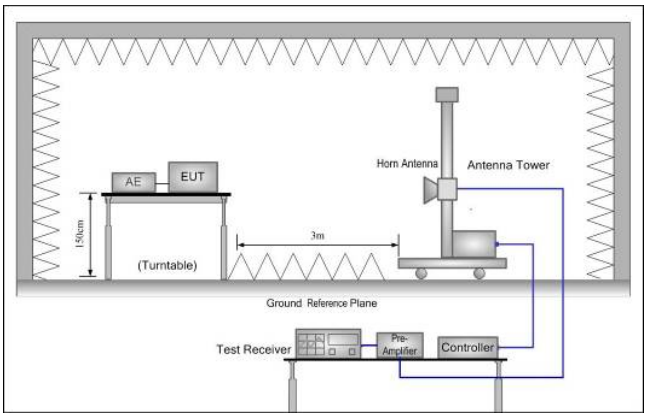
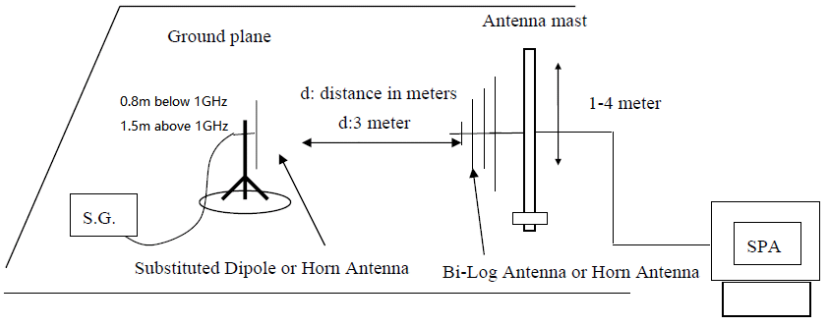
Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.

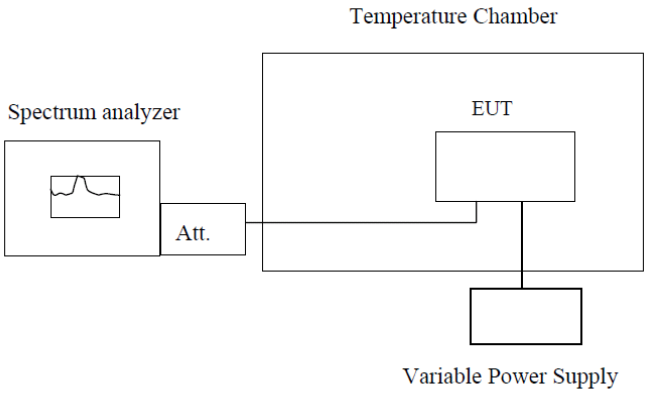
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

7.8 EIRP Measurement

Test Requirement for FCC:	FCC part15.407a1(i)					
Limit for FCC:	125mW					
Test setup:	 Substituted method: 					
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

7.9 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Measurement data:

Frequency stability versus Temp.									
Worse Case Operating Frequency：5180MHz									
Temp. (°C)	Power Supply (Vdc)	0 minute		2 minute		5 minute		10 minute	
		Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail
-30	7.4	5180.6777	Pass	5179.4446	Pass	5180.6663	Pass	5179.7453	Pass
-20	7.4	5179.3606	Pass	5179.9077	Pass	5180.2115	Pass	5179.8915	Pass
-10	7.4	5179.9419	Pass	5180.2210	Pass	5180.1704	Pass	5180.4610	Pass
0	7.4	5180.6660	Pass	5180.4793	Pass	5179.4324	Pass	5180.6686	Pass
10	7.4	5179.5960	Pass	5179.4909	Pass	5179.3205	Pass	5179.0197	Pass
20	7.4	5180.8234	Pass	5179.8245	Pass	5180.6488	Pass	5180.7048	Pass
30	7.4	5179.6256	Pass	5180.7739	Pass	5179.9709	Pass	5179.2141	Pass
40	7.4	5179.6498	Pass	5180.5026	Pass	5180.7034	Pass	5180.6830	Pass
50	7.4	5179.6412	Pass	5179.5185	Pass	5179.4338	Pass	5180.6079	Pass

Frequency stability versus Temp.									
Worse Case Operating Frequency：5180MHz									
Temp. (°C)	Power Supply (Vdc)	0 minute		2 minute		5 minute		10 minute	
		Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail	Measured Frequency (MHz)	Pass /Fail
25	6.66	5179.3743	Pass	5179.6141	Pass	5180.3087	Pass	5179.9625	Pass
25	7.4	5179.3143	Pass	5179.5449	Pass	5179.9001	Pass	5180.3581	Pass
25	8.14	5180.6623	Pass	5179.9768	Pass	5180.2692	Pass	5180.6132	Pass

8 Test Setup Photo

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

9 EUT Constructional Details

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

---END---