FCC 47 CFR PART 15 SUBPART E

Product Type	:	Lenovo Pocket Projector
Applicant	:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address	:	No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China
Trade Name	:	Lenovo
Model Number	:	P0510
Test Specification	:	FCC 47 CFR PART 15 SUBPART E: Oct., 2014 ANSI C63.10:2013
Application Purpose	:	Original
Receive Date	:	Jul. 16, 2015
Test Period	:	Aug. 28 ~ Sep. 04, 2015
Issue Date	:	Sep. 15, 2015

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Sep. 15, 2015	Initial Issue	

Verification of Compliance

Issued Date: 09/15/2015

Product Type	:	Lenovo Pocket Projector
Applicant	:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address	:	No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China
Trade Name	:	Lenovo
Model Number	:	P0510
FCC ID	:	O57P0510
EUT Rated Voltage	:	DC 5.2V, 2A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E: Oct., 2014 ANSI C63.10:2013
Test Result	:	Complied
Application Purpose	:	Original
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel：+86-3-2710188 / Fax：+86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By	:	Fly Lu	Reviewed By	: Eric Ou Yang
(Manager)		(Fly Lu)	(Testing Engineer)	(Eric Ou Yang)

TABLE OF CONTENTS

1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26dB RF Bandwidth	Reference	---
15.407(a)	6dB RF Bandwidth	PASS	-----
15.407(a)	Peak Power Spectral Density	PASS	---
15.407(g)	Frequency Stability	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Measurement Uncertainty

Measurement Item	Frequency Range		Uncertainty (dB)
Conducted Emission	9kHz ~ 30MHz		± 2.020
Radiated Emission	30MHz ~ 1000MHz	Horizontal	± 3.960
		Vertical	± 3.570
	1000MHz ~ 18000MHz	Horizontal	± 3.072
		Vertical	± 3.028
	18000MHz ~ 40000MHz	Horizontal	± 3.622
		Vertical	± 3.506

2 EUT Description

Product Type	Lenovo Pocket Projector				
Trade Name	Lenovo				
Model No.	P0510				
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China				
Manufacturer	Lenovo PC HK Limited 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong,China				
FCC ID	O57P0510				
Operate Freq. Band	Frequency Range (MHz)	Band	Channel Bandwidth	Number of Channels	Data Rate 400 GI (ns)
IEEE 802.11a	5180 – 5240	U-NII Band I	20MHz	4	Up to 54Mbps
	5260 – 5320	U-NII Band II-A		4	
	5500 – 5700	U-NII Band II-C		11	
	5745 – 5825	U-NII Band III		5	
IEEE 802.11n 20 MHz	5180 – 5240	U-NII Band I	20MHz	4	Up to 144.4Mbps
	5260 – 5320	U-NII Band II-A		4	
	5500 – 5700	U-NII Band II-C		11	
	5745 – 5825	U-NII Band III		5	
IEEE 802.11n 40 MHz	5190 – 5230	U-NII Band I	40MHz	2	Up to 300Mbps
	5270 – 5310	U-NII Band II-A		2	
	5510 – 5670	U-NII Band II-C		5	
	5755 – 5795	U-NII Band III		2	
Modulation Type	OFDM				
Equipment Type	Client (without radar detection function)				
Antenna Type	FPC Antenna				
Antenna Gain	2 dBi				
Antenna Delivery	IEEE 802.11a: 1TX + 1RX IEEE 802.11n 20MHz / 40MHz: 2TX + 2RX				
RF Output Power	IEEE 802.11a U-NII Band I : 0.0032 W / 5.00 dBm IEEE 802.11a U-NII Band II-A : 0.0051 W / 7.10 dBm IEEE 802.11a U-NII Band II-C : 0.0094 W / 9.71 dBm IEEE 802.11a U-NII Band III : 0.0043 W / 6.31 dBm IEEE 802.11n 20MHz U-NII Band I: 0.0038 W / 5.78 dBm IEEE 802.11n 20MHz U-NII Band II-A: 0.0049 W / 6.92 dBm IEEE 802.11n 20MHz U-NII Band II-C: 0.0079 W / 8.96 dBm IEEE 802.11n 20MHz U-NII Band III: 0.0040 W / 6.02 dBm IEEE 802.11n 40MHz U-NII Band I: 0.0031 W / 4.98 dBm IEEE 802.11n 40MHz U-NII Band II-A: 0.0045W / 6.50 dBm IEEE 802.11n 40MHz U-NII Band II-C: 0.0074 W / 8.68 dBm IEEE 802.11n 40MHz U-NII Band III: 0.0034 W / 5.29 dBm				
Operate Temp. Range	0 ~ 45 ℃				

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11n 20MHz Link Mode
Mode 4: IEEE 802.11n 40MHz Link Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

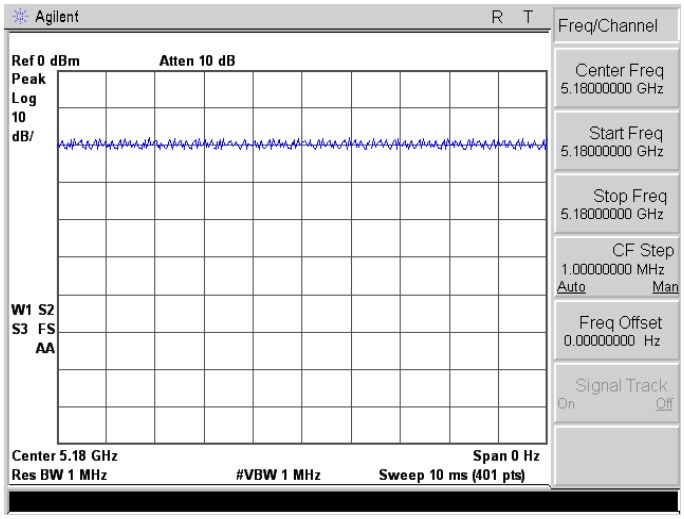
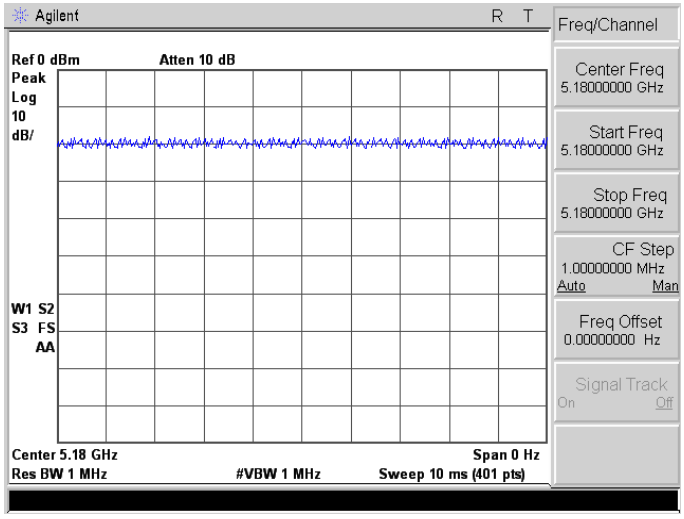
After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

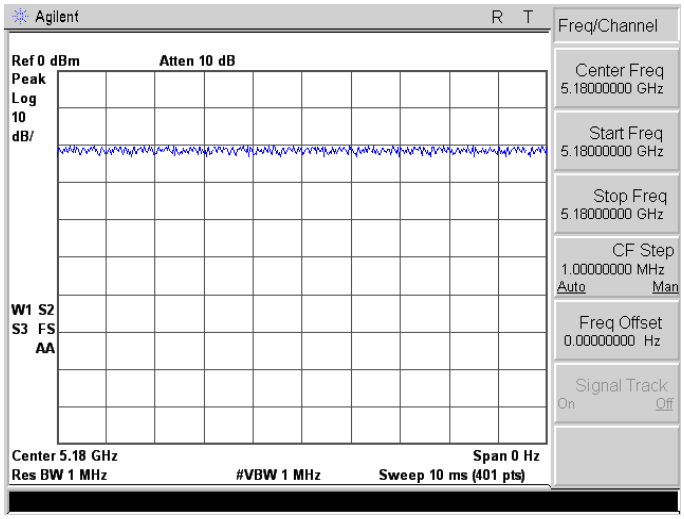
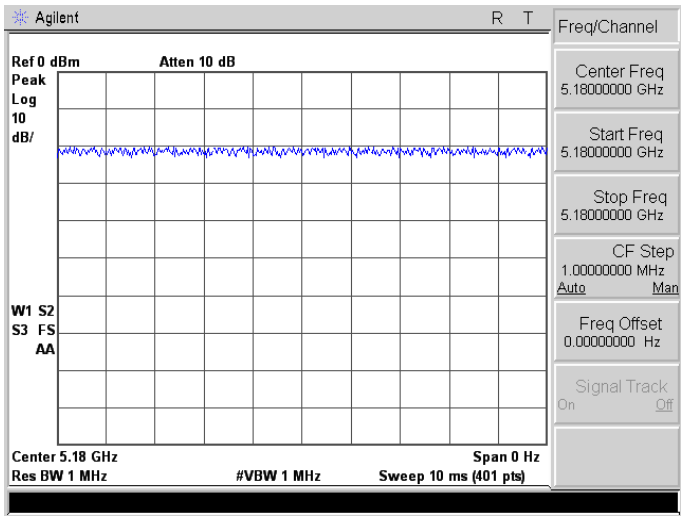
Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2: IEEE 802.11a Link Mode	V	V	
Mode 3: IEEE 802.11n 20MHz Link Mode	V	V	V
Mode 4: IEEE 802.11n 40MHz Link Mode	V	V	V

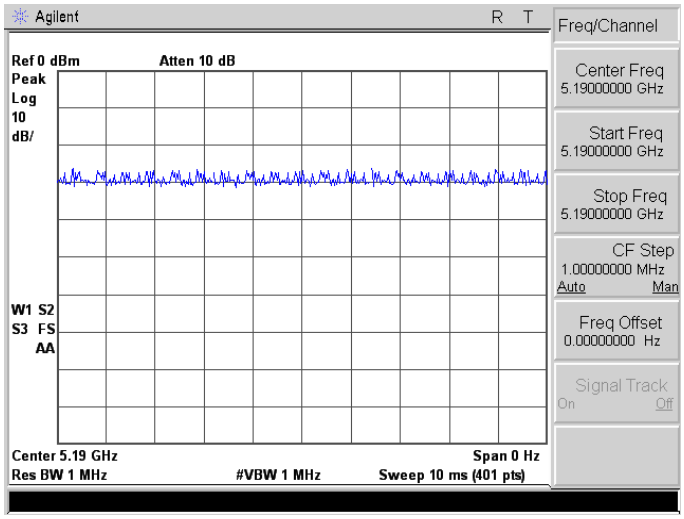
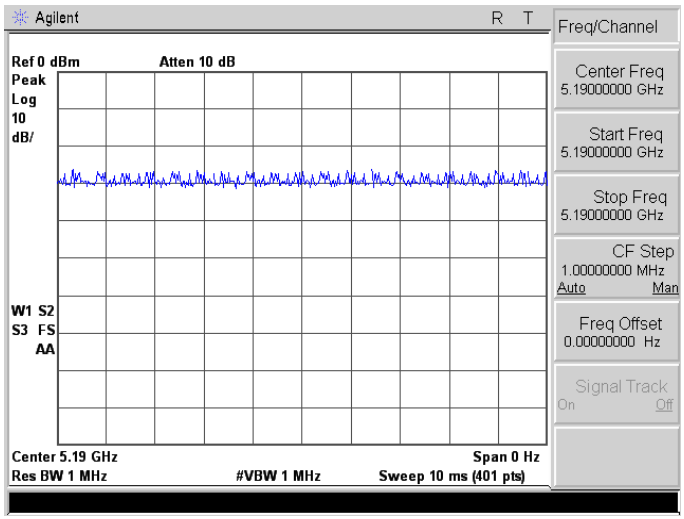
Test Mode	Band	Data Rate 800 GI (ns)	Test Channel
IEEE 802.11a Link Mode	U-NII Band I	6M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 20MHz Link Mode	U-NII Band I	13M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 40MHz Link Mode	U-NII Band I	27M	38, 46
	U-NII Band II-A		54, 62
	U-NII Band II-C		102, 110, 134
	U-NII Band III		151, 159

Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2: IEEE 802.11a Link Mode	5180.0	1.000	1.000	1.000	0.000	0.010
Mode 3: IEEE 802.11n 20MHz Link Mode	5180.0	1.000	1.000	1.000	0.000	0.010
Mode 4: IEEE 802.11n 40MHz Link Mode	5190.0	1.000	1.000	1.000	0.000	0.010

Mode 2: IEEE 802.11a Link Mode	
On time	
On+off time	

Mode 3: IEEE 802.11n 20MHz Link Mode	
On time	
On+off time	

Mode 4: IEEE 802.11n 40MHz Link Mode	
On time	
On+off time	

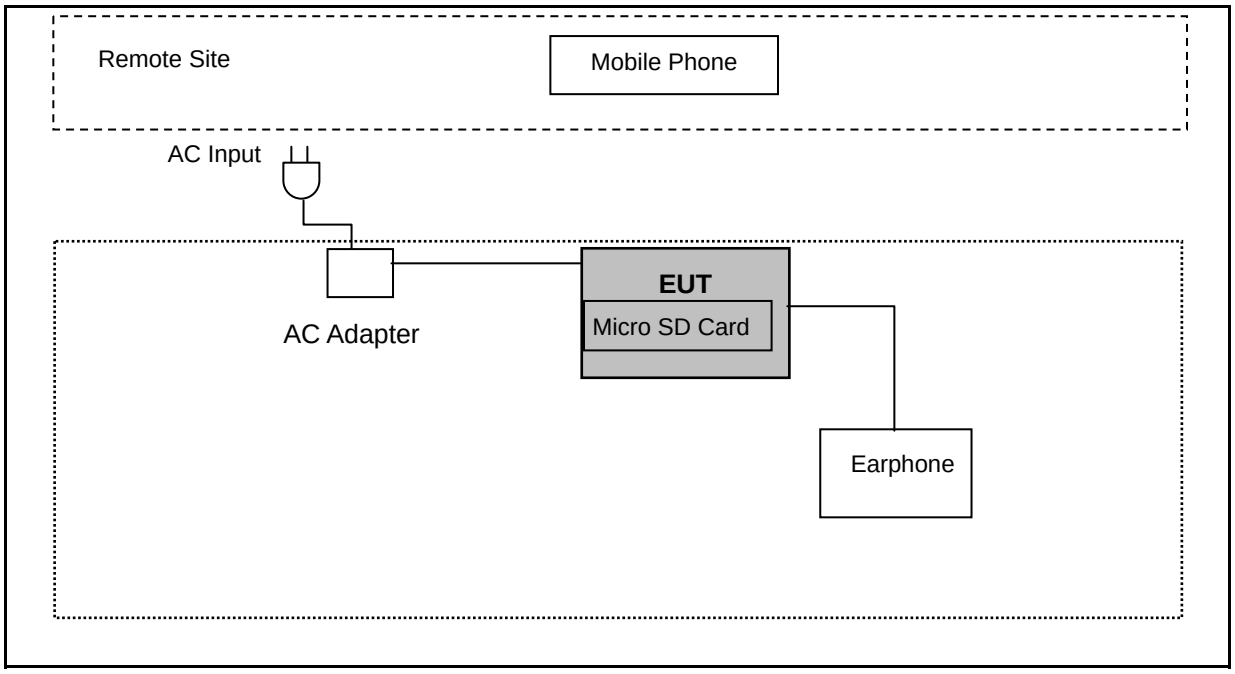
3.2. EUT Exercise Software

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

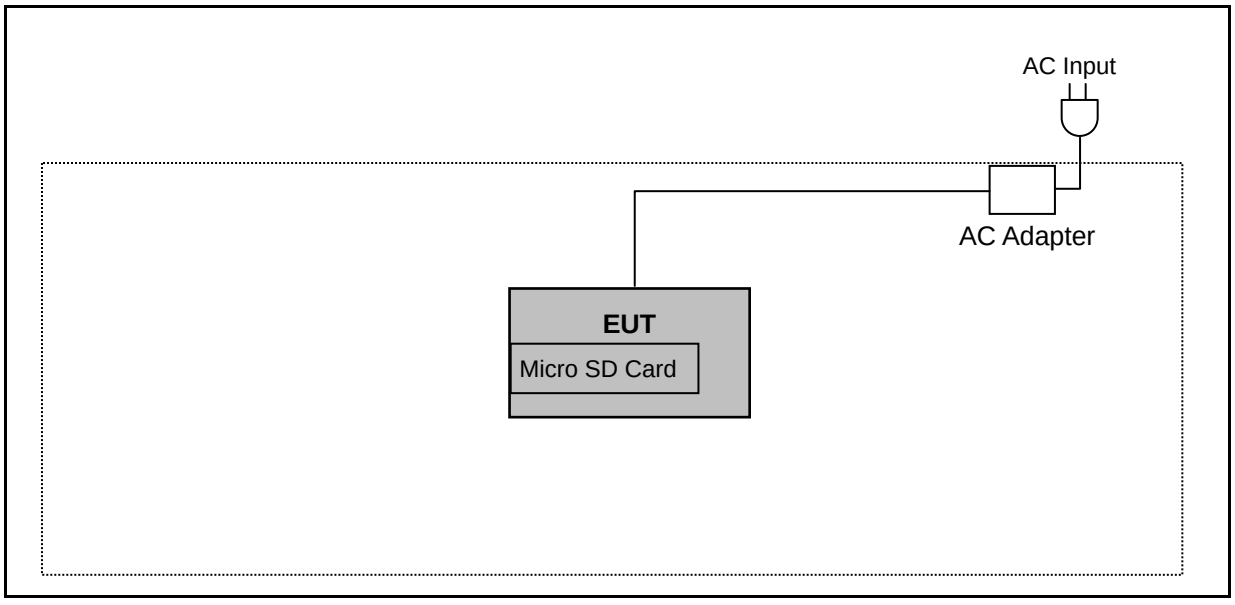
1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function.
4.	EUT run test program.

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emission



3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 AC Power Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

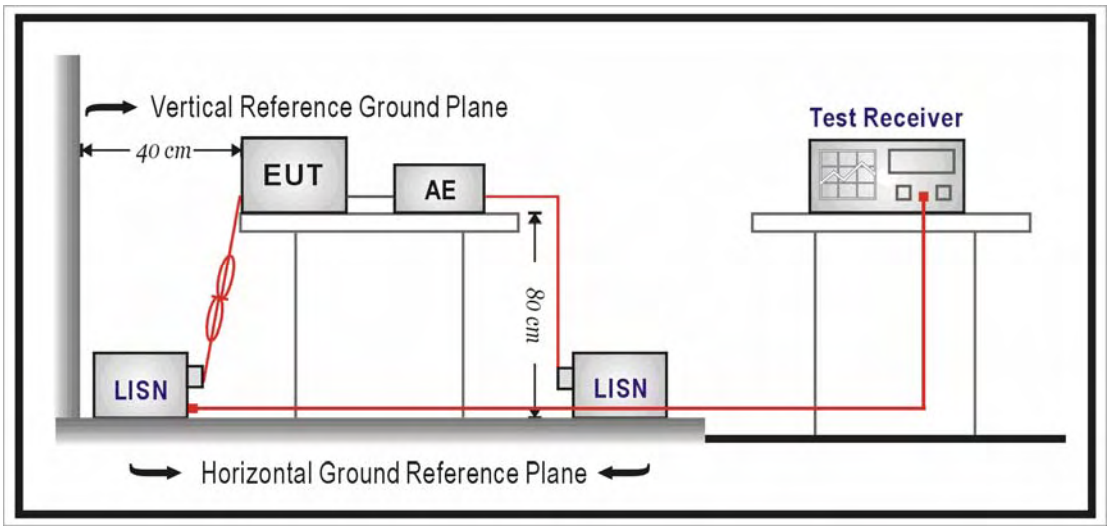
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/25/2015	(1)
LISN	R&S	ENV216	101040	03/10/2015	(1)
LISN	R&S	ENV216	101041	03/06/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

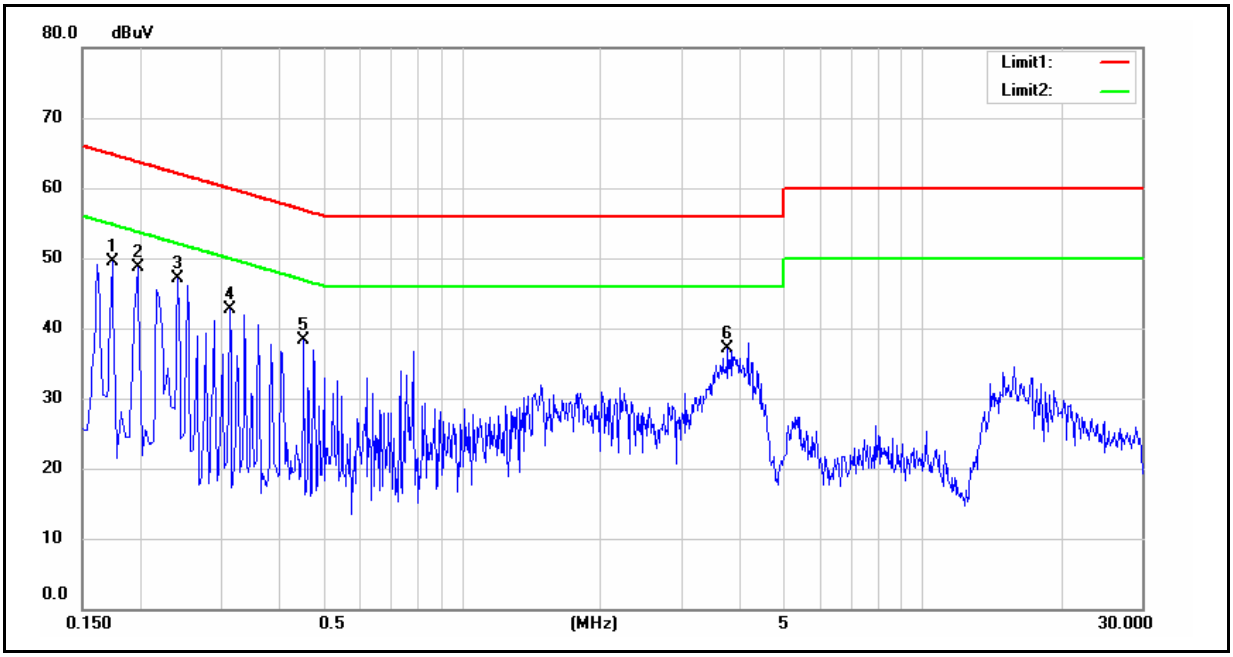
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

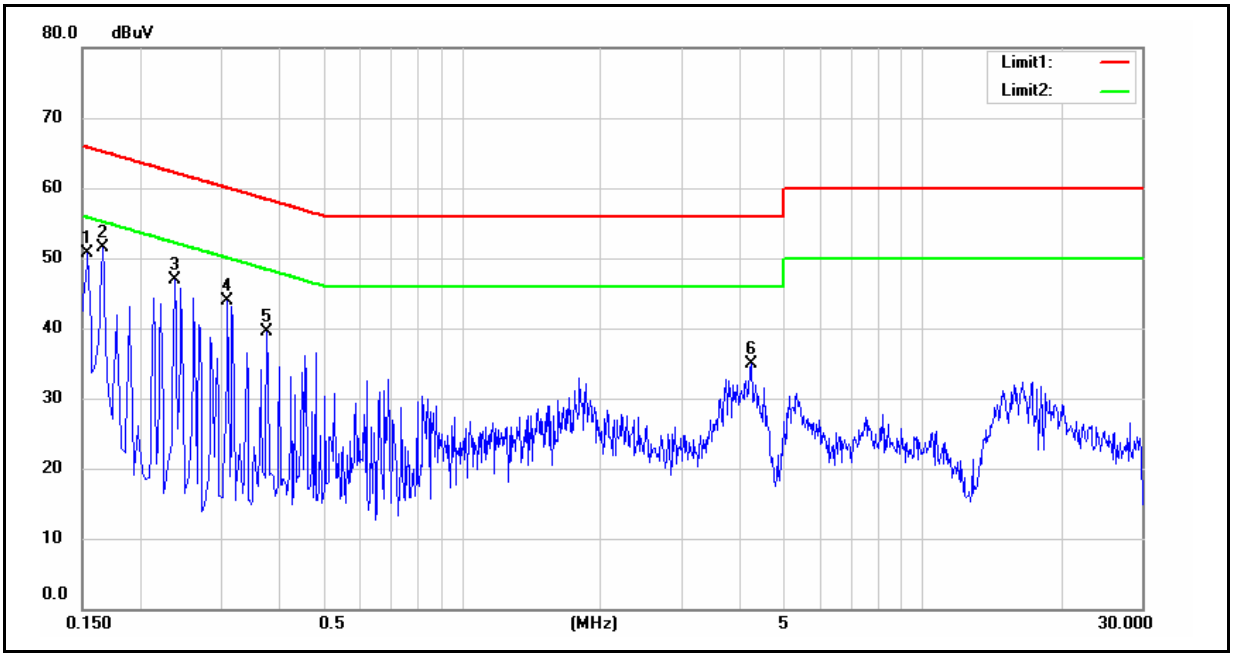
4.5. Test Result

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	08/28/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	33.40	10.23	9.58	42.98	19.81	64.77	54.77	-21.79	-34.96	Pass
2	0.1980	32.70	8.79	9.58	42.28	18.37	63.69	53.69	-21.41	-35.32	Pass
3	0.2420	29.58	10.32	9.58	39.16	19.90	62.03	52.03	-22.87	-32.13	Pass
4	0.3140	25.24	4.31	9.59	34.83	13.90	59.86	49.86	-25.03	-35.96	Pass
5	0.4540	20.21	2.87	9.60	29.81	12.47	56.80	46.80	-26.99	-34.33	Pass
6	3.7820	21.29	7.50	9.72	31.01	17.22	56.00	46.00	-24.99	-28.78	Pass

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	08/28/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	36.62	19.05	9.58	46.20	28.63	65.78	55.78	-19.58	-27.15	Pass
2	0.1660	34.29	17.67	9.58	43.87	27.25	65.16	55.16	-21.29	-27.91	Pass
3	0.2380	29.86	6.84	9.58	39.44	16.42	62.17	52.17	-22.73	-35.75	Pass
4	0.3100	24.63	3.74	9.59	34.22	13.33	59.97	49.97	-25.75	-36.64	Pass
5	0.3780	22.25	2.98	9.59	31.84	12.57	58.32	48.32	-26.48	-35.75	Pass
6	4.2380	17.77	7.88	9.75	27.52	17.63	56.00	46.00	-28.48	-28.37	Pass

5 Radiated Emission Measurement

5.1. Limit

Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

5.2. Test Instruments

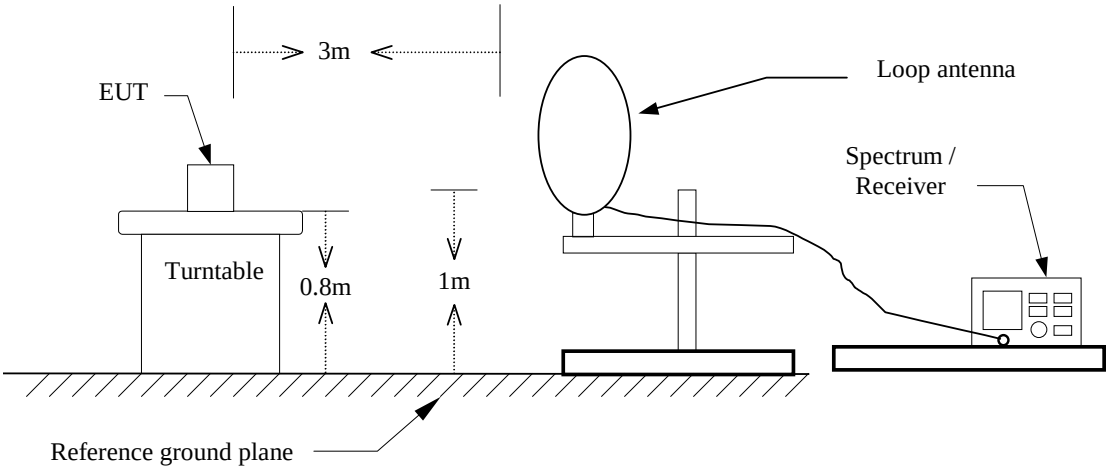
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/11/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/06/2015	(1)
Test Site	ATL	TE01	888001	08/28/2015	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

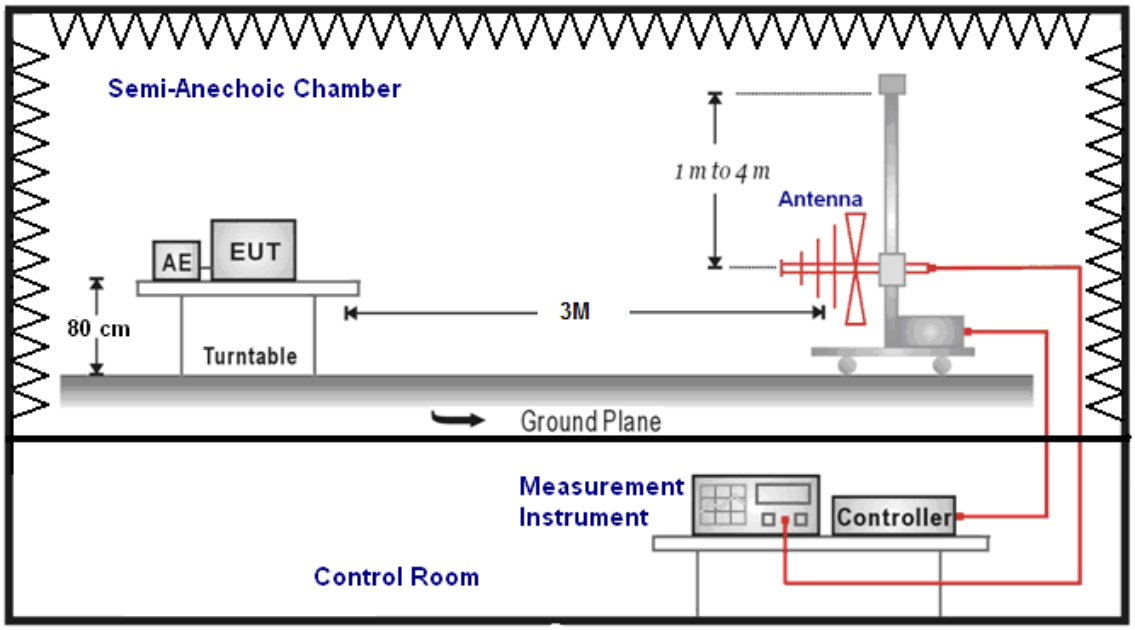
Note: N.C.R. = No Calibration Request.

5.3. Setup

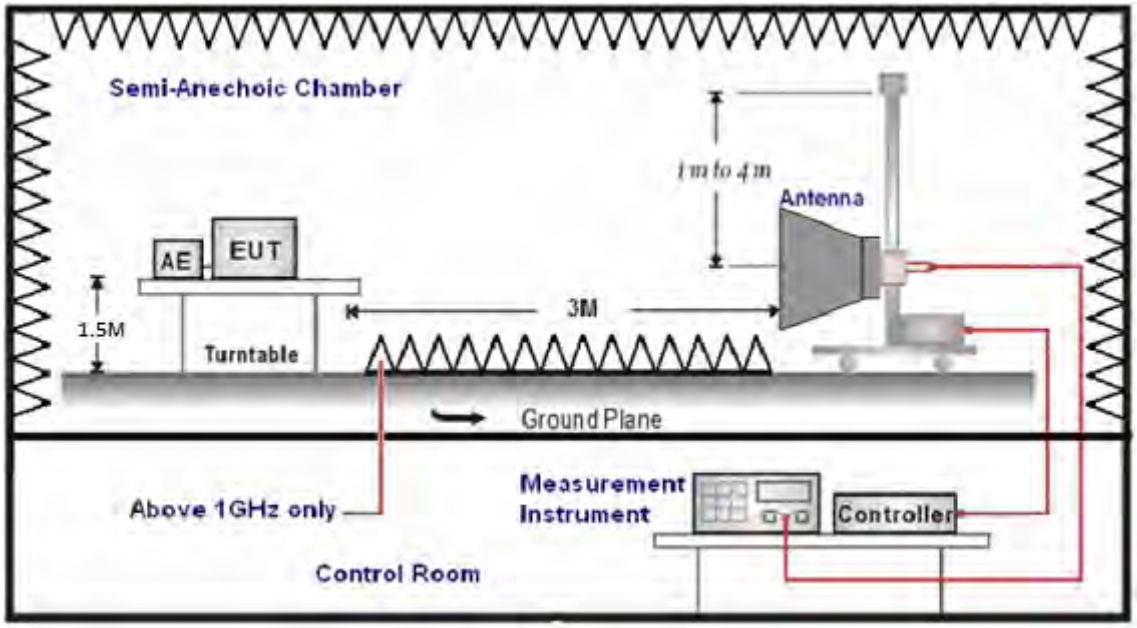
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz


Semi-Anechoic Chamber
1m to 4m
Antenna
AE
EUT
1.5M
Turntable
3M
Ground Plane
Above 1GHz only
Measurement
Instrument
Controller
Control Room

5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height(below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna (mode SB AC VULB) at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antnna (model 3117) Schwarzbeck Mess-Elektronik Broadband Horn Antenna (BBHA 9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

5.5. Test Result

Below 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	09/11/2015
		Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
234.5000	46.73	-15.08	31.65	46.00	-14.35	QP	H
396.0000	43.69	-11.30	32.39	46.00	-13.61	QP	H
482.5000	39.25	-9.97	29.28	46.00	-16.72	QP	H
600.0000	38.68	-7.84	30.84	46.00	-15.16	QP	H
685.5000	30.89	-6.89	24.00	46.00	-22.00	QP	H
838.0000	33.23	-4.50	28.73	46.00	-17.27	QP	H
139.5000	39.26	-14.03	25.23	43.50	-18.27	QP	V
235.0000	42.53	-15.04	27.49	46.00	-18.51	QP	V
396.0000	42.88	-11.30	31.58	46.00	-14.42	QP	V
533.5000	37.90	-9.29	28.61	46.00	-17.39	QP	V
609.5000	40.10	-7.77	32.33	46.00	-13.67	QP	V
779.5000	32.55	-5.28	27.27	46.00	-18.73	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	38.53	0.86	39.39	74.00	-34.61	peak	H
4731.000	33.88	7.17	41.05	74.00	-32.95	peak	H
7475.000	33.70	13.95	47.65	74.00	-26.35	peak	H
2834.000	37.81	1.14	38.95	74.00	-35.05	peak	V
4563.000	34.20	6.66	40.86	74.00	-33.14	peak	V
7447.000	33.57	13.88	47.45	74.00	-26.55	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5200MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.59	5.67	42.26	74.00	-31.74	peak	H
5382.000	32.59	11.10	43.69	74.00	-30.31	peak	H
7342.000	32.39	13.06	45.45	74.00	-28.55	peak	H
2848.000	38.87	5.71	44.58	74.00	-29.42	peak	V
4577.000	35.36	9.87	45.23	74.00	-28.77	peak	V
7461.000	34.59	13.10	47.69	74.00	-26.31	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	38.20	5.46	43.66	74.00	-30.34	peak	H
4780.000	34.21	10.19	44.40	74.00	-29.60	peak	H
7524.000	33.52	13.13	46.65	74.00	-27.35	peak	H
2785.000	36.13	5.54	41.67	74.00	-32.33	peak	V
4598.000	33.48	9.91	43.39	74.00	-30.61	peak	V
7587.000	33.13	13.20	46.33	74.00	-27.67	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2750.000	36.77	5.46	42.23	74.00	-31.77	peak	H
4857.000	32.90	10.30	43.20	74.00	-30.80	peak	H
7524.000	32.99	13.13	46.12	74.00	-27.88	peak	H
2813.000	37.11	5.62	42.73	74.00	-31.27	peak	V
4934.000	33.55	10.42	43.97	74.00	-30.03	peak	V
7349.000	32.28	13.07	45.35	74.00	-28.65	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	36.90	5.54	42.44	74.00	-31.56	peak	H
4745.000	33.47	10.13	43.60	74.00	-30.40	peak	H
7461.000	32.49	13.10	45.59	74.00	-28.41	peak	H
2778.000	38.03	5.54	43.57	74.00	-30.43	peak	V
4864.000	33.59	10.32	43.91	74.00	-30.09	peak	V
7398.000	32.58	13.08	45.66	74.00	-28.34	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.63	5.67	42.30	74.00	-31.70	peak	H
4640.000	33.84	9.97	43.81	74.00	-30.19	peak	H
7524.000	32.69	13.13	45.82	74.00	-28.18	peak	H
2862.000	36.89	5.75	42.64	74.00	-31.36	peak	V
4612.000	33.51	9.92	43.43	74.00	-30.57	peak	V
7384.000	33.47	13.07	46.54	74.00	-27.46	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	37.39	5.49	42.88	74.00	-31.12	peak	H
4766.000	33.40	10.17	43.57	74.00	-30.43	peak	H
7489.000	33.69	13.11	46.80	74.00	-27.20	peak	H
2799.000	38.23	5.59	43.82	74.00	-30.18	peak	V
4731.000	33.40	10.10	43.50	74.00	-30.50	peak	V
7468.000	34.12	13.11	47.23	74.00	-26.77	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5560MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2876.000	36.77	5.79	42.56	74.00	-31.44	peak	H
4857.000	33.35	10.30	43.65	74.00	-30.35	peak	H
7405.000	32.13	13.08	45.21	74.00	-28.79	peak	H
2750.000	38.31	5.46	43.77	74.00	-30.23	peak	V
4857.000	35.11	10.30	45.41	74.00	-28.59	peak	V
7531.000	33.85	13.14	46.99	74.00	-27.01	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.54	5.61	42.15	74.00	-31.85	peak	H
4787.000	33.15	10.20	43.35	74.00	-30.65	peak	H
7391.000	32.39	13.07	45.46	74.00	-28.54	peak	H
2855.000	37.48	5.73	43.21	74.00	-30.79	peak	V
4731.000	33.10	10.10	43.20	74.00	-30.80	peak	V
7531.000	32.88	13.14	46.02	74.00	-27.98	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2995.000	37.74	6.11	43.85	74.00	-30.15	peak	H
4647.000	34.55	9.98	44.53	74.00	-29.47	peak	H
6775.000	32.83	12.82	45.65	74.00	-28.35	peak	H
3156.000	37.27	6.62	43.89	74.00	-30.11	peak	V
4430.000	33.73	9.63	43.36	74.00	-30.64	peak	V
6754.000	34.50	12.80	47.30	74.00	-26.70	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3121.000	37.95	6.50	44.45	74.00	-29.55	peak	H
4570.000	34.18	9.87	44.05	74.00	-29.95	peak	H
6747.000	33.85	12.81	46.66	74.00	-27.34	peak	H
3163.000	37.72	6.64	44.36	74.00	-29.64	peak	V
4752.000	33.38	10.15	43.53	74.00	-30.47	peak	V
6726.000	33.95	12.79	46.74	74.00	-27.26	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3114.000	37.33	6.48	43.81	74.00	-30.19	peak	H
4381.000	34.17	9.53	43.70	74.00	-30.30	peak	H
6600.000	33.80	12.72	46.52	74.00	-27.48	peak	H
3086.000	37.58	6.39	43.97	74.00	-30.03	peak	V
4451.000	34.55	9.66	44.21	74.00	-29.79	peak	V
6698.000	34.03	12.77	46.80	74.00	-27.20	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	38.15	5.54	43.69	74.00	-30.31	peak	H
4598.000	33.36	9.91	43.27	74.00	-30.73	peak	H
7538.000	34.03	13.15	47.18	74.00	-26.82	peak	H
2869.000	37.89	5.77	43.66	74.00	-30.34	peak	V
4850.000	33.60	10.30	43.90	74.00	-30.10	peak	V
7517.000	33.75	13.13	46.88	74.00	-27.12	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5200MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	39.66	5.54	45.20	74.00	-28.80	peak	H
5025.000	35.46	10.55	46.01	74.00	-27.99	peak	H
7370.000	34.99	13.08	48.07	74.00	-25.93	peak	H
2813.000	36.67	5.62	42.29	74.00	-31.71	peak	V
4682.000	32.29	10.03	42.32	74.00	-31.68	peak	V
7342.000	31.71	13.06	44.77	74.00	-29.23	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	38.06	5.51	43.57	74.00	-30.43	peak	H
4808.000	34.47	10.23	44.70	74.00	-29.30	peak	H
7384.000	34.01	13.07	47.08	74.00	-26.92	peak	H
2792.000	37.74	5.57	43.31	74.00	-30.69	peak	V
4913.000	34.38	10.39	44.77	74.00	-29.23	peak	V
7503.000	34.14	13.11	47.25	74.00	-26.75	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	36.15	5.51	41.66	74.00	-32.34	peak	H
4822.000	33.23	10.25	43.48	74.00	-30.52	peak	H
7419.000	31.77	13.09	44.86	74.00	-29.14	peak	H
2792.000	36.65	5.57	42.22	74.00	-31.78	peak	V
4780.000	33.40	10.19	43.59	74.00	-30.41	peak	V
7559.000	32.76	13.17	45.93	74.00	-28.07	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2778.000	37.43	5.54	42.97	74.00	-31.03	peak	H
4724.000	32.62	10.10	42.72	74.00	-31.28	peak	H
7538.000	33.66	13.15	46.81	74.00	-27.19	peak	H
2813.000	38.81	5.62	44.43	74.00	-29.57	peak	V
4780.000	34.86	10.19	45.05	74.00	-28.95	peak	V
7496.000	34.27	13.11	47.38	74.00	-26.62	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2792.000	37.28	5.57	42.85	74.00	-31.15	peak	H
4941.000	34.47	10.44	44.91	74.00	-29.09	peak	H
7545.000	32.97	13.16	46.13	74.00	-27.87	peak	H
2806.000	37.26	5.61	42.87	74.00	-31.13	peak	V
4843.000	34.32	10.29	44.61	74.00	-29.39	peak	V
7405.000	32.82	13.08	45.90	74.00	-28.10	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.02	5.67	42.69	74.00	-31.31	peak	H
4843.000	33.25	10.29	43.54	74.00	-30.46	peak	H
7482.000	32.73	13.10	45.83	74.00	-28.17	peak	H
2799.000	36.96	5.59	42.55	74.00	-31.45	peak	V
4892.000	33.28	10.36	43.64	74.00	-30.36	peak	V
7377.000	32.17	13.07	45.24	74.00	-28.76	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5560MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	36.71	5.54	42.25	74.00	-31.75	peak	H
4941.000	33.19	10.44	43.63	74.00	-30.37	peak	H
7531.000	32.73	13.14	45.87	74.00	-28.13	peak	H
2876.000	36.85	5.79	42.64	74.00	-31.36	peak	V
4864.000	34.39	10.32	44.71	74.00	-29.29	peak	V
7496.000	32.32	13.11	45.43	74.00	-28.57	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	37.00	5.49	42.49	74.00	-31.51	peak	H
4766.000	33.45	10.17	43.62	74.00	-30.38	peak	H
7412.000	33.28	13.08	46.36	74.00	-27.64	peak	H
2827.000	37.28	5.66	42.94	74.00	-31.06	peak	V
4829.000	34.42	10.26	44.68	74.00	-29.32	peak	V
7433.000	34.32	13.08	47.40	74.00	-26.60	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3023.000	37.64	6.18	43.82	74.00	-30.18	peak	H
4668.000	33.15	10.01	43.16	74.00	-30.84	peak	H
6838.000	31.87	12.87	44.74	74.00	-29.26	peak	H
3128.000	37.10	6.53	43.63	74.00	-30.37	peak	V
4591.000	33.23	9.90	43.13	74.00	-30.87	peak	V
6677.000	34.57	12.75	47.32	74.00	-26.68	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3023.000	36.50	6.18	42.68	74.00	-31.32	peak	H
4437.000	33.01	9.63	42.64	74.00	-31.36	peak	H
6628.000	33.63	12.73	46.36	74.00	-27.64	peak	H
2946.000	36.67	5.98	42.65	74.00	-31.35	peak	V
4619.000	32.17	9.94	42.11	74.00	-31.89	peak	V
6705.000	32.82	12.78	45.60	74.00	-28.40	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3093.000	36.34	6.41	42.75	74.00	-31.25	peak	H
4507.000	32.56	9.77	42.33	74.00	-31.67	peak	H
6663.000	32.62	12.75	45.37	74.00	-28.63	peak	H
2995.000	36.60	6.11	42.71	74.00	-31.29	peak	V
4570.000	34.31	9.87	44.18	74.00	-29.82	peak	V
6831.000	34.36	12.85	47.21	74.00	-26.79	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5190MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	37.76	5.51	43.27	74.00	-30.73	peak	H
4808.000	33.89	10.23	44.12	74.00	-29.88	peak	H
7419.000	33.77	13.09	46.86	74.00	-27.14	peak	H
2778.000	38.44	5.54	43.98	74.00	-30.02	peak	V
4885.000	34.56	10.34	44.90	74.00	-29.10	peak	V
7587.000	34.06	13.20	47.26	74.00	-26.74	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5230MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2883.000	38.43	5.81	44.24	74.00	-29.76	peak	H
4766.000	34.35	10.17	44.52	74.00	-29.48	peak	H
7349.000	32.82	13.07	45.89	74.00	-28.11	peak	H
2750.000	38.21	5.46	43.67	74.00	-30.33	peak	V
4752.000	34.20	10.15	44.35	74.00	-29.65	peak	V
7419.000	33.40	13.09	46.49	74.00	-27.51	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5270MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2764.000	36.63	5.49	42.12	74.00	-31.88	peak	H
4878.000	33.97	10.34	44.31	74.00	-29.69	peak	H
7440.000	31.97	13.09	45.06	74.00	-28.94	peak	H
2785.000	38.37	5.54	43.91	74.00	-30.09	peak	V
4794.000	34.93	10.21	45.14	74.00	-28.86	peak	V
7475.000	33.20	13.11	46.31	74.00	-27.69	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5310MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.15	5.66	42.81	74.00	-31.19	peak	H
5018.000	33.84	10.54	44.38	74.00	-29.62	peak	H
7419.000	32.43	13.09	45.52	74.00	-28.48	peak	H
2785.000	37.90	5.54	43.44	74.00	-30.56	peak	V
4822.000	34.10	10.25	44.35	74.00	-29.65	peak	V
7377.000	33.93	13.07	47.00	74.00	-27.00	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5510MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.92	5.61	42.53	74.00	-31.47	peak	H
4913.000	33.30	10.39	43.69	74.00	-30.31	peak	H
7503.000	32.24	13.11	45.35	74.00	-28.65	peak	H
2792.000	37.03	5.57	42.60	74.00	-31.40	peak	V
4878.000	32.58	10.34	42.92	74.00	-31.08	peak	V
7377.000	32.75	13.07	45.82	74.00	-28.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5550MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.19	5.61	42.80	74.00	-31.20	peak	H
4787.000	33.38	10.20	43.58	74.00	-30.42	peak	H
7377.000	33.14	13.07	46.21	74.00	-27.79	peak	H
2764.000	37.54	5.49	43.03	74.00	-30.97	peak	V
4885.000	33.84	10.34	44.18	74.00	-29.82	peak	V
7454.000	33.57	13.10	46.67	74.00	-27.33	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5670MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	37.38	5.54	42.92	74.00	-31.08	peak	H
4934.000	33.54	10.42	43.96	74.00	-30.04	peak	H
7440.000	32.65	13.09	45.74	74.00	-28.26	peak	H
2785.000	37.36	5.54	42.90	74.00	-31.10	peak	V
4808.000	33.75	10.23	43.98	74.00	-30.02	peak	V
7503.000	33.26	13.11	46.37	74.00	-27.63	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5755MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3107.000	36.23	6.46	42.69	74.00	-31.31	peak	H
4493.000	32.53	9.74	42.27	74.00	-31.73	peak	H
6670.000	32.85	12.76	45.61	74.00	-28.39	peak	H
3037.000	37.02	6.23	43.25	74.00	-30.75	peak	V
4675.000	32.38	10.02	42.40	74.00	-31.60	peak	V
6726.000	33.19	12.79	45.98	74.00	-28.02	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5795MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3114.000	35.25	6.48	41.73	74.00	-32.27	peak	H
4493.000	30.10	9.74	39.84	74.00	-34.16	peak	H
6565.000	31.05	12.69	43.74	74.00	-30.26	peak	H
3030.000	35.72	6.21	41.93	74.00	-32.07	peak	V
4598.000	33.03	9.91	42.94	74.00	-31.06	peak	V
6649.000	32.10	12.74	44.84	74.00	-29.16	peak	V

Band Edge

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5180 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4918.600	49.75	7.77	57.52	74.00	-16.48	peak	H
4918.600	36.21	7.77	43.98	54.00	-10.02	AVG	H
5150.000	46.05	8.21	54.26	74.00	-19.74	peak	H
5150.000	35.84	8.21	44.05	54.00	-9.95	AVG	H
5072.600	48.17	8.11	56.28	74.00	-17.72	peak	V
5072.600	36.01	8.11	44.12	54.00	-9.88	AVG	V
5150.000	45.18	8.21	53.39	74.00	-20.61	peak	V
5150.000	35.44	8.21	43.65	54.00	-10.35	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5320 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	47.18	8.48	55.66	74.00	-18.34	peak	H
5350.000	35.83	8.48	44.31	54.00	-9.69	AVG	H
5418.700	48.66	8.57	57.23	74.00	-16.77	peak	H
5418.700	35.76	8.57	44.33	54.00	-9.67	AVG	H
5350.000	45.88	8.48	54.36	74.00	-19.64	peak	V
5350.000	35.75	8.48	44.23	54.00	-9.77	AVG	H
5383.980	48.07	8.52	56.59	74.00	-17.41	peak	V
5383.980	35.73	8.52	44.25	54.00	-9.75	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5410.600	48.73	8.56	57.29	74.00	-16.71	peak	H
5410.600	35.86	8.56	44.42	54.00	-9.58	AVG	H
5460.000	45.91	8.62	54.53	74.00	-19.47	peak	H
5460.000	35.73	8.62	44.35	54.00	-9.65	AVG	H
5415.850	48.58	8.56	57.14	74.00	-16.86	peak	V
5415.850	36.46	8.56	45.02	54.00	-8.98	AVG	H
5460.000	46.90	8.62	55.52	74.00	-18.48	peak	V
5460.000	35.66	8.62	44.28	54.00	-9.72	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5470.000	41.61	8.63	50.24	68.20	-17.96	peak	H
5470.000	41.82	8.63	50.45	68.20	-17.75	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5700 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	42.97	9.21	52.18	68.20	-16.02	peak	H
5725.000	44.35	9.21	53.56	68.20	-14.64	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5745 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5715.000	43.52	9.18	52.70	68.20	-15.50	peak	H
5725.000	43.40	9.21	52.61	78.20	-25.59	peak	H
5715.000	42.89	9.18	52.07	68.20	-16.13	peak	V
5725.000	43.04	9.21	52.25	78.20	-25.95	peak	H

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	09/04/2015
Frequency:	5825 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	42.53	9.51	52.04	78.20	-26.16	peak	H
5860.000	43.13	9.53	52.66	68.20	-15.54	peak	H
5850.000	42.87	9.51	52.38	78.20	-25.82	peak	V
5860.000	43.22	9.53	52.75	68.20	-15.45	peak	H

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5180 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4790.500	49.54	7.37	56.91	74.00	-17.09	peak	H
4790.500	36.24	7.37	43.61	54.00	-10.39	AVG	H
5150.000	45.71	8.21	53.92	74.00	-20.08	peak	H
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	H
4708.600	49.90	7.11	57.01	74.00	-16.99	peak	V
4708.600	36.19	7.11	43.30	54.00	-10.70	AVG	V
5150.000	45.74	8.21	53.95	74.00	-20.05	peak	V
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5320 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	45.56	8.48	54.04	74.00	-19.96	peak	H
5350.000	35.73	8.48	44.21	54.00	-9.79	AVG	H
5387.060	47.73	8.52	56.25	74.00	-17.75	peak	H
5387.060	35.66	8.52	44.18	54.00	-9.82	AVG	H
5350.000	45.73	8.48	54.21	74.00	-19.79	peak	V
5350.000	35.72	8.48	44.20	54.00	-9.80	AVG	V
5356.120	48.72	8.48	57.20	74.00	-16.80	peak	V
5356.120	35.78	8.48	44.26	54.00	-9.74	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	09/04/2015
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5443.300	48.46	8.60	57.06	74.00	-16.94	peak	H
5443.300	35.75	8.60	44.35	54.00	-9.65	AVG	H
5460.000	46.34	8.62	54.96	74.00	-19.04	peak	H
5460.000	35.74	8.62	44.36	54.00	-9.64	AVG	H
5401.600	48.78	8.54	57.32	74.00	-16.68	peak	V
5401.600	35.74	8.54	44.28	54.00	-9.72	AVG	V
5460.000	46.52	8.62	55.14	74.00	-18.86	peak	V
5460.000	35.70	8.62	44.32	54.00	-9.68	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5470.000	41.76	8.63	50.39	68.20	-17.81	peak	H
5470.000	43.77	8.63	52.40	68.20	-15.80	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5700 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	44.32	9.21	53.53	68.20	-14.67	peak	H
5725.000	43.34	9.21	52.55	68.20	-15.65	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5745 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5715.000	43.48	9.18	52.66	68.20	-15.54	peak	H
5725.000	43.64	9.21	52.85	78.20	-25.35	peak	H
5715.000	44.81	9.18	53.99	68.20	-14.21	peak	V
5725.000	44.16	9.21	53.37	78.20	-24.83	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5825 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	43.86	9.51	53.37	78.20	-24.83	peak	H
5860.000	42.54	9.53	52.07	68.20	-16.13	peak	H
5850.000	42.76	9.51	52.27	78.20	-25.93	peak	V
5860.000	44.31	9.53	53.84	68.20	-14.36	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5190 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5095.700	48.59	8.15	56.74	74.00	-17.26	peak	H
5095.700	36.01	8.15	44.16	54.00	-9.84	AVG	H
5150.000	45.66	8.21	53.87	74.00	-20.13	peak	H
5150.000	35.41	8.21	43.62	54.00	-10.38	AVG	H
4800.300	48.52	7.40	55.92	74.00	-18.08	peak	V
4800.300	36.23	7.40	43.63	54.00	-10.37	AVG	V
5150.000	45.39	8.21	53.60	74.00	-20.40	peak	V
5150.000	35.80	8.21	44.01	54.00	-9.99	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5310 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	45.83	8.48	54.31	74.00	-19.69	peak	H
5350.000	35.70	8.48	44.18	54.00	-9.82	AVG	H
5407.360	48.17	8.55	56.72	74.00	-17.28	peak	H
5407.360	35.77	8.55	44.32	54.00	-9.68	AVG	H
5350.000	46.15	8.48	54.63	74.00	-19.37	peak	V
5350.000	35.53	8.48	44.01	54.00	-9.99	AVG	V
5353.180	48.34	8.48	56.82	74.00	-17.18	peak	V
5353.180	35.75	8.48	44.23	54.00	-9.77	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5510 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5398.750	48.37	8.54	56.91	74.00	-17.09	peak	H
5398.750	35.71	8.54	44.25	54.00	-9.75	AVG	H
5460.000	46.03	8.62	54.65	74.00	-19.35	peak	H
5460.000	35.77	8.62	44.39	54.00	-9.61	AVG	H
5391.100	48.69	8.52	57.21	74.00	-16.79	peak	V
5391.100	35.73	8.52	44.25	54.00	-9.75	AVG	V
5460.000	46.44	8.62	55.06	74.00	-18.94	peak	V
5460.000	35.71	8.62	44.33	54.00	-9.67	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5510 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5470.000	41.57	8.63	50.20	68.20	-18.00	peak	H
5470.000	42.07	8.63	50.70	68.20	-17.50	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5670 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5725.000	43.09	9.21	52.30	68.20	-15.90	peak	H
5725.000	42.94	9.21	52.15	68.20	-16.05	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5755 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5715.000	44.92	9.18	54.10	68.20	-14.10	peak	H
5725.000	42.21	9.21	51.42	78.20	-26.78	peak	H
5715.000	42.69	9.18	51.87	68.20	-16.33	peak	V
5725.000	43.38	9.21	52.59	78.20	-25.61	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	P0510	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	09/04/2015
Frequency:	5795 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	43.05	9.51	52.56	78.20	-25.64	peak	H
5860.000	43.45	9.53	52.98	68.20	-15.22	peak	H
5850.000	43.12	9.51	52.63	78.20	-25.57	peak	V
5860.000	43.70	9.53	53.23	68.20	-14.97	peak	V

6 Maximum Conducted Output Power Measurement

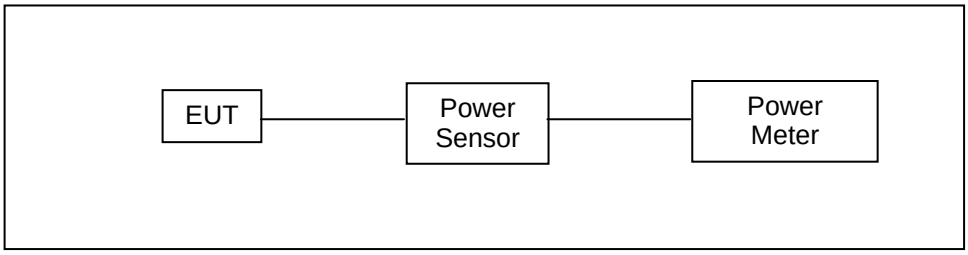
6.1. Limit

Conducted Output Power

Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	The lesser of 250mW (24dBm)
5.250 ~ 5.350 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.470 ~ 5.725 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.725 ~ 5.850 GHz	The lesser of 1000mW (30dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Power Sensor	Anritsu	MA2411B	1126022	08/24/2015	(1)
Power Meter	Anritsu	ML2495A	1135009	08/24/2015	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

6.5. Test Result

Model Number	P0510			
Test Item	Maximum Conducted Output Power			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	08/28/2015	Test Site	TE02	

Frequency (MHz)	Data Rate	ANT-0 Max. Output Power		ANT-1 Max. Output Power		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180.0	6M	2.67	0.0018	1.47	0.0014	< 24
5200.0		3.46	0.0022	1.01	0.0013	
5220.0		4.26	0.0027	1.04	0.0013	
5240.0		**5.00**	**0.0032**	1.12	0.0013	
5260.0		5.82	0.0038	1.26	0.0013	< 24
5280.0		6.40	0.0044	0.06	0.0010	
5300.0		7.04	0.0051	1.73	0.0015	
5320.0		**7.10**	**0.0051**	1.16	0.0013	
5500.0		8.67	0.0074	2.99	0.0020	< 24
5520.0		9.22	0.0084	2.33	0.0017	
5540.0		9.46	0.0088	2.89	0.0019	
5560.0		9.61	0.0091	3.40	0.0022	
5580.0		**9.71**	**0.0094**	3.51	0.0022	
5600.0		9.58	0.0091	3.30	0.0021	
5620.0		9.47	0.0089	4.01	0.0025	
5640.0		9.11	0.0081	3.74	0.0024	
5660.0		8.86	0.0077	3.32	0.0021	
5680.0		8.59	0.0072	2.93	0.0020	
5700.0		7.96	0.0063	3.16	0.0021	
5745.0		**6.31**	**0.0043**	3.09	0.0020	< 30
5765.0		5.46	0.0035	2.44	0.0018	
5785.0		4.59	0.0029	0.72	0.0012	
5805.0		3.64	0.0023	-0.30	0.0009	
5825.0		2.64	0.0018	3.48	0.0022	

Model Number	P0510			
Test Item	Maximum Conducted Output Power			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	08/28/2015		Test Site	TE02

Frequency (MHz)	Data Rate	ANT-0 Max. Output Power		ANT-1 Max. Output Power		FCC Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5180.0	54M	2.53	0.0018	1.36	0.0014	< 24
5200.0		3.34	0.0022	0.91	0.0012	
5220.0		4.16	0.0026	0.97	0.0013	
5240.0		4.87	0.0031	1.02	0.0013	
5260.0		5.72	0.0037	1.21	0.0013	< 24
5280.0		6.29	0.0043	0.00	0.0010	
5300.0		6.94	0.0049	1.62	0.0015	
5320.0		6.98	0.0050	1.02	0.0013	
5500.0		8.53	0.0071	2.90	0.0019	< 24
5520.0		9.06	0.0081	2.25	0.0017	
5540.0		9.32	0.0086	2.82	0.0019	
5560.0		9.46	0.0088	3.34	0.0022	
5580.0		9.61	0.0091	3.40	0.0022	
5600.0		9.49	0.0089	3.19	0.0021	
5620.0		9.34	0.0086	3.94	0.0025	
5640.0		8.99	0.0079	3.68	0.0023	
5660.0		8.70	0.0074	3.22	0.0021	
5680.0		8.48	0.0070	2.83	0.0019	
5700.0		7.88	0.0061	3.09	0.0020	
5745.0		6.21	0.0042	3.01	0.0020	< 30
5765.0		5.31	0.0034	2.34	0.0017	
5785.0		4.42	0.0028	0.66	0.0012	
5805.0		3.56	0.0023	-0.39	0.0009	
5825.0		2.58	0.0018	3.38	0.0022	

Model Number	P0510						
Test Item	Maximum Conducted Output Power						
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode						
Date of Test	08/28/2015				Test Site	TE02	

Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		Max. Output Power		Max. Output Power		Max. Output Power		
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5180.0	13M	3.13	0.0021	-0.18	0.0010	4.79	0.0030	< 24
5200.0		3.22	0.0021	-0.09	0.0010	4.88	0.0031	
5220.0		3.88	0.0024	0.08	0.0010	5.39	0.0035	
5240.0		4.30	0.0027	0.39	0.0011	**5.78**	**0.0038**	
5260.0		4.77	0.0030	-0.36	0.0009	5.93	0.0039	< 24
5280.0		5.27	0.0034	-0.54	0.0009	6.28	0.0042	
5300.0		5.69	0.0037	-0.63	0.0009	6.60	0.0046	
5320.0		6.12	0.0041	-0.82	0.0008	**6.92**	**0.0049**	
5500.0		7.52	0.0056	1.36	0.0014	8.46	0.0070	< 24
5520.0		7.74	0.0059	1.40	0.0014	8.65	0.0073	
5540.0		8.08	0.0064	1.54	0.0014	8.95	0.0079	
5560.0		8.01	0.0063	1.66	0.0015	8.92	0.0078	
5580.0		8.03	0.0064	1.81	0.0015	**8.96**	**0.0079**	
5600.0		7.81	0.0060	1.43	0.0014	8.71	0.0074	
5620.0		7.61	0.0058	1.37	0.0014	8.54	0.0071	
5640.0		7.17	0.0052	1.21	0.0013	8.15	0.0065	
5660.0		7.08	0.0051	1.19	0.0013	8.08	0.0064	
5680.0		6.43	0.0044	1.09	0.0013	7.54	0.0057	
5700.0		5.70	0.0037	1.00	0.0013	6.97	0.0050	
5745.0		3.83	0.0024	1.99	0.0016	**6.02**	**0.0040**	< 30
5765.0		2.98	0.0020	1.86	0.0015	5.47	0.0035	
5785.0		2.11	0.0016	1.67	0.0015	4.91	0.0031	
5805.0		1.34	0.0014	1.54	0.0014	4.45	0.0028	
5825.0		0.76	0.0012	1.37	0.0014	4.09	0.0026	

Model Number	P0510						
Test Item	Maximum Conducted Output Power						
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode						
Date of Test	08/28/2015				Test Site	TE02	

Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		Max. Output Power		Max. Output Power		Max. Output Power		
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5180.0	130M	2.84	0.0019	-0.36	0.0009	4.54	0.0028	< 24
5200.0		2.99	0.0020	-0.29	0.0009	4.66	0.0029	
5220.0		3.61	0.0023	-0.13	0.0010	5.14	0.0033	
5240.0		4.08	0.0026	0.22	0.0011	5.58	0.0036	
5260.0		4.49	0.0028	-0.53	0.0009	5.68	0.0037	< 24
5280.0		5.05	0.0032	-0.75	0.0008	6.06	0.0040	
5300.0		5.42	0.0035	-0.81	0.0008	6.35	0.0043	
5320.0		5.84	0.0038	-0.99	0.0008	6.66	0.0046	
5500.0		7.24	0.0053	1.16	0.0013	8.20	0.0066	< 24
5520.0		7.48	0.0056	1.22	0.0013	8.40	0.0069	
5540.0		7.81	0.0060	1.36	0.0014	8.70	0.0074	
5560.0		7.75	0.0060	1.44	0.0014	8.66	0.0073	
5580.0		7.79	0.0060	1.61	0.0014	8.73	0.0075	
5600.0		7.54	0.0057	1.26	0.0013	8.46	0.0070	
5620.0		7.38	0.0055	1.17	0.0013	8.31	0.0068	
5640.0		6.91	0.0049	1.06	0.0013	7.91	0.0062	
5660.0		6.85	0.0048	0.98	0.0013	7.85	0.0061	
5680.0		6.16	0.0041	0.92	0.0012	7.30	0.0054	
5700.0		5.43	0.0035	0.88	0.0012	6.74	0.0047	
5745.0		3.56	0.0023	1.82	0.0015	5.79	0.0038	< 30
5765.0		2.71	0.0019	1.69	0.0015	5.24	0.0033	
5785.0		1.88	0.0015	1.49	0.0014	4.70	0.0030	
5805.0		1.11	0.0013	1.36	0.0014	4.25	0.0027	
5825.0		0.48	0.0011	1.15	0.0013	3.84	0.0024	

Model Number	P0510						
Test Item	Maximum Conducted Output Power						
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode						
Date of Test	08/28/2015				Test Site	TE02	

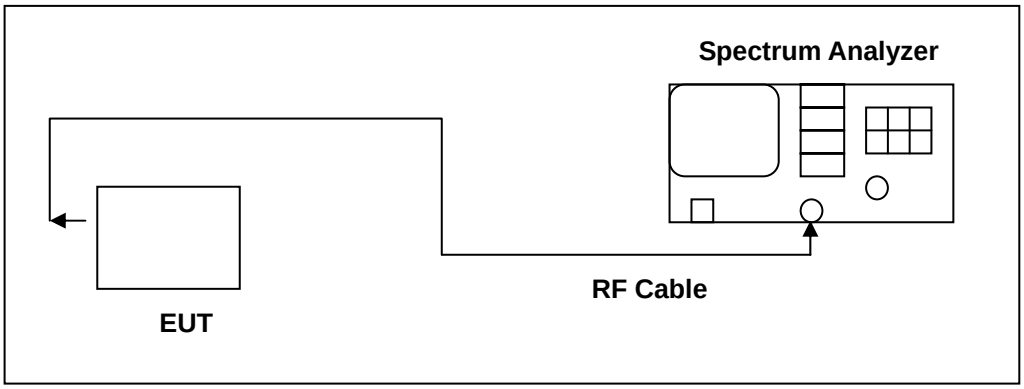
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)
		Max. Output Power		Max. Output Power		Max. Output Power		
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
5190.0	27M	2.79	0.0019	-1.23	0.0008	4.24	0.0027	< 24
5230.0		3.83	0.0024	-1.35	0.0007	**4.98**	**0.0031**	
5270.0		4.92	0.0031	-1.37	0.0007	5.84	0.0038	< 24
5310.0		5.74	0.0037	-1.42	0.0007	**6.50**	**0.0045**	
5510.0		7.44	0.0055	0.85	0.0012	8.30	0.0068	< 24
5550.0		7.72	0.0059	1.15	0.0013	8.58	0.0072	
5590.0		7.87	0.0061	0.98	0.0013	**8.68**	**0.0074**	
5630.0		7.22	0.0053	0.92	0.0012	8.13	0.0065	
5670.0		6.46	0.0044	0.85	0.0012	7.51	0.0056	
5755.0		3.25	0.0021	1.03	0.0013	**5.29**	**0.0034**	< 30
5795.0		1.63	0.0015	1.09	0.0013	4.38	0.0027	
5190.0	270M	2.56	0.0018	-1.38	0.0007	4.03	0.0025	< 24
5230.0		3.61	0.0023	-1.52	0.0007	4.77	0.0030	
5270.0		4.73	0.0030	-1.56	0.0007	5.65	0.0037	< 24
5310.0		5.51	0.0036	-1.58	0.0007	6.29	0.0043	
5510.0		7.21	0.0053	0.65	0.0012	8.08	0.0064	< 24
5550.0		7.49	0.0056	0.98	0.0013	8.37	0.0069	
5590.0		7.68	0.0059	0.77	0.0012	8.49	0.0071	
5630.0		6.99	0.0050	0.73	0.0012	7.91	0.0062	
5670.0		6.22	0.0042	0.69	0.0012	7.29	0.0054	
5755.0		3.06	0.0020	0.88	0.0012	5.12	0.0032	< 30
5795.0		1.44	0.0014	0.94	0.0012	4.21	0.0026	

7 26dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

7.1. Limit

N/A

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

7.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

7.5. Test Result

Model Number	P0510		
Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	09/02/2015	Test Site	TE02

Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
	ANT-0	
5180	23.355	17.0807
5200	23.187	16.9851
5240	23.125	17.0513
5260	23.214	17.0505
5280	23.062	17.0305
5320	23.063	17.0277
5500	22.980	17.0283
5560	23.507	17.0427
5700	23.799	17.0259

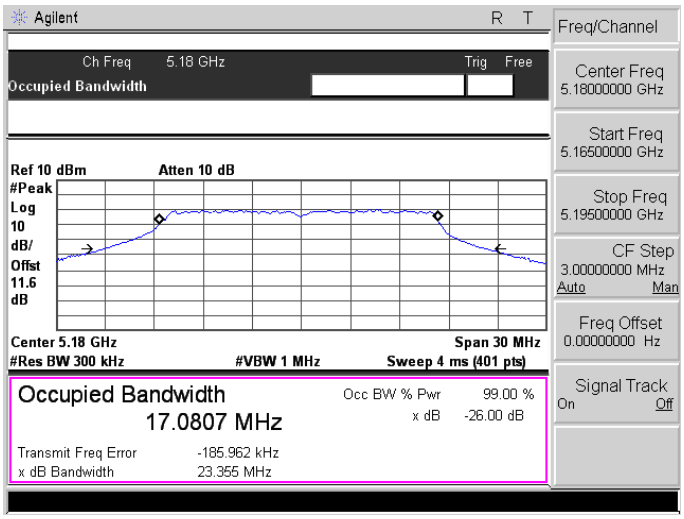
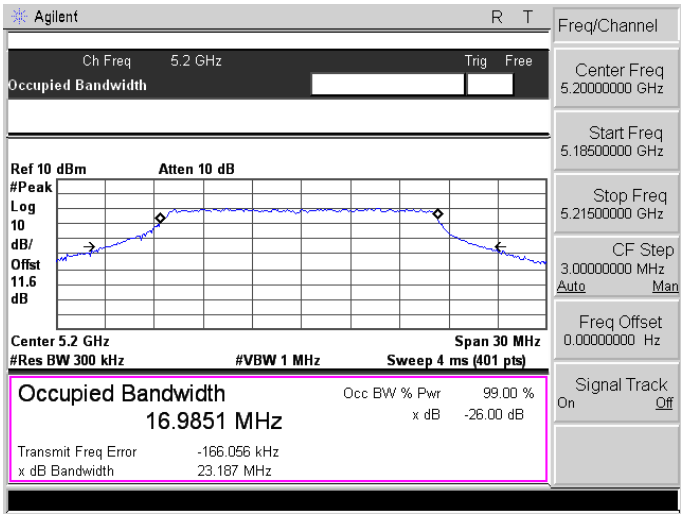
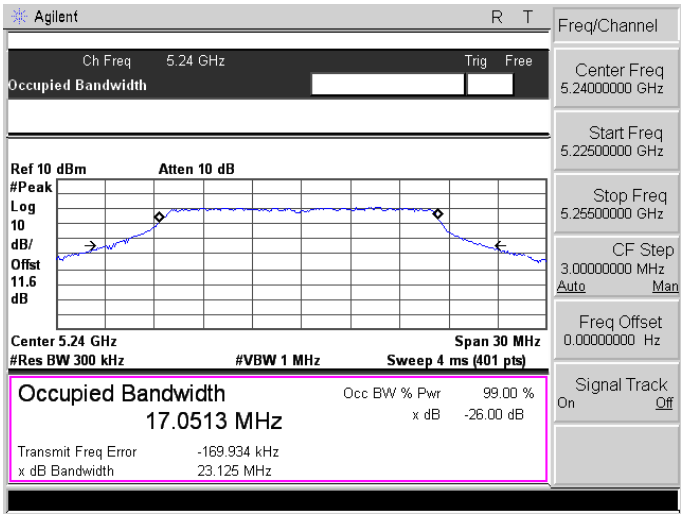
Model Number	P0510		
Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode		
Date of Test	09/02/2015	Test Site	TE02

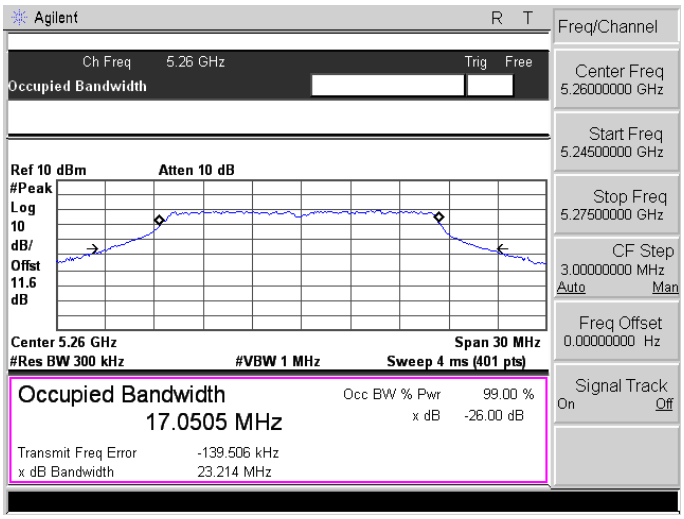
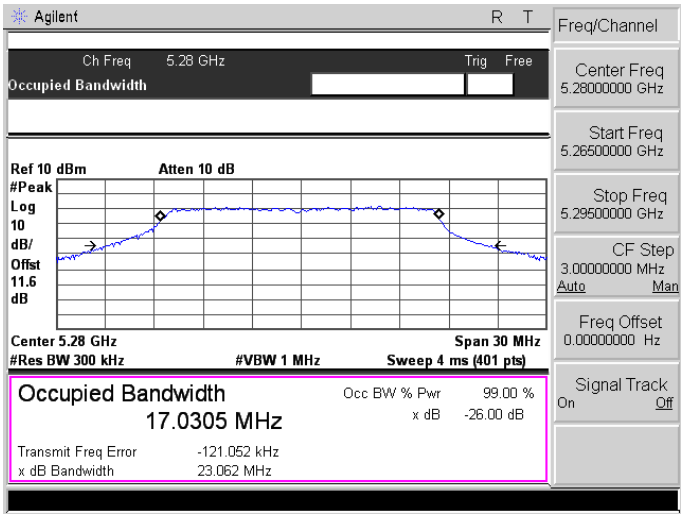
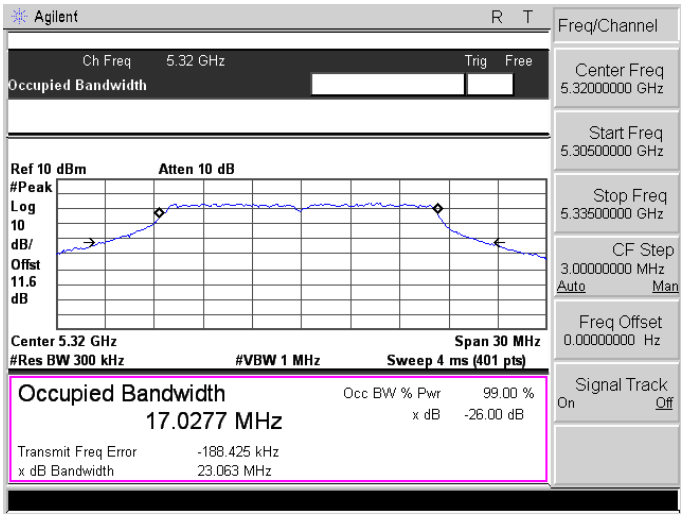
Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
	ANT-0	ANT-1	ANT-0	ANT-1
5180	24.019	23.098	18.0982	17.9094
5200	23.740	22.869	18.0587	17.8973
5240	23.559	23.099	18.0713	17.9095
5260	23.532	23.147	18.0855	17.9031
5280	23.735	23.049	18.0900	17.9147
5320	24.047	23.128	18.0335	17.8875
5500	23.895	23.103	18.0942	17.9012
5560	23.425	23.208	18.0713	17.8737
5700	23.539	23.164	18.0422	17.9110

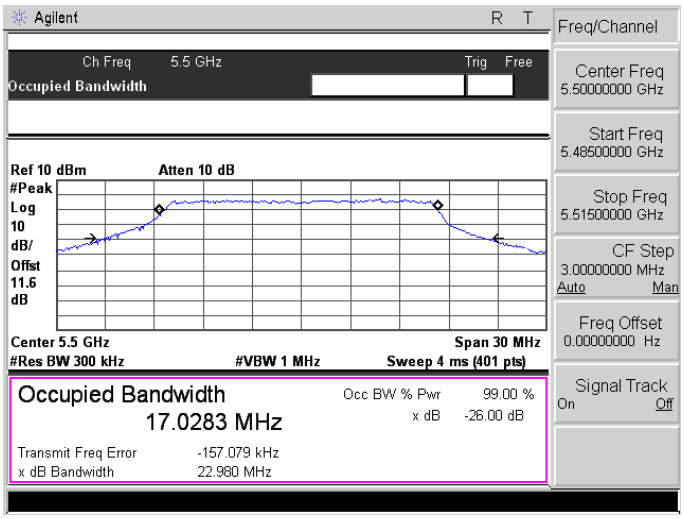
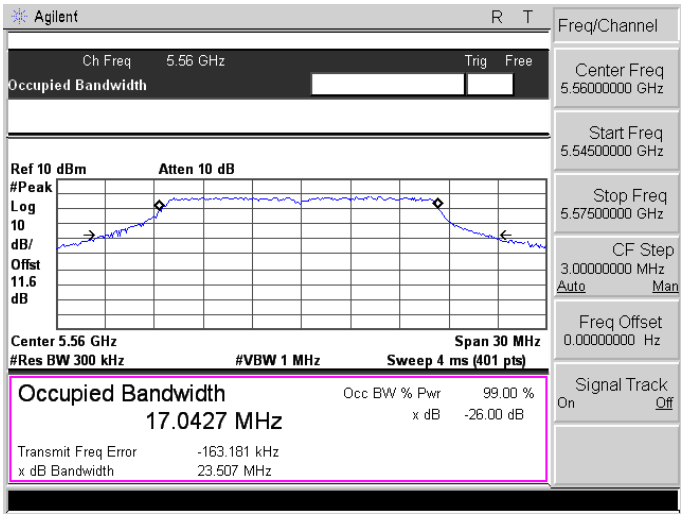
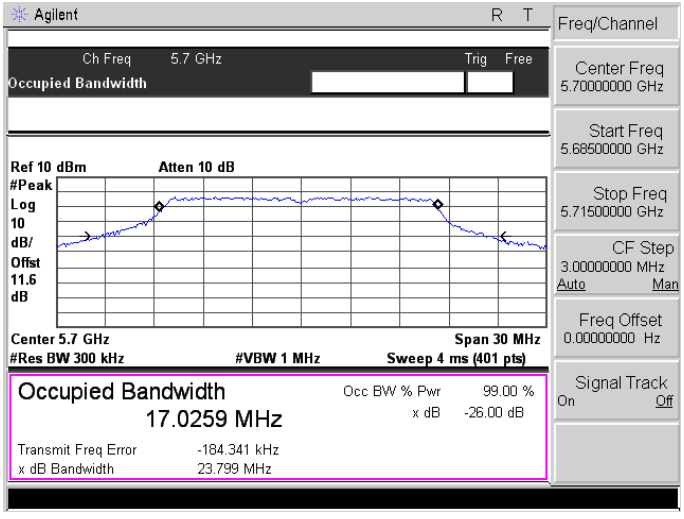
Model Number	P0510		
Test Item	26dB RF Bandwidth Measurement		
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode		
Date of Test	09/02/2015	Test Site	TE02

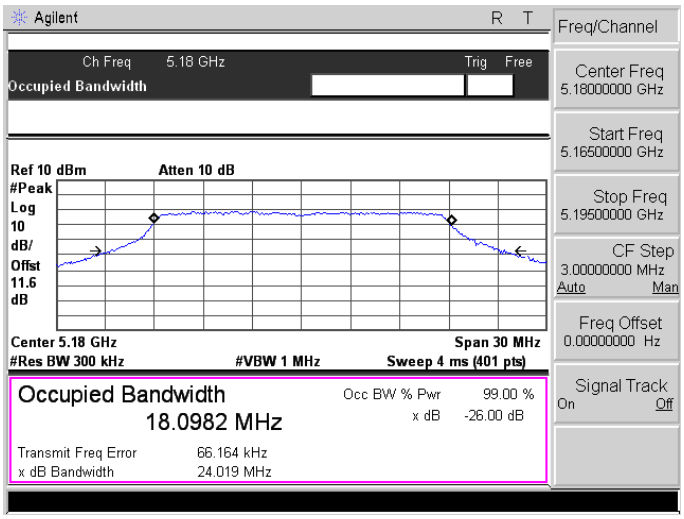
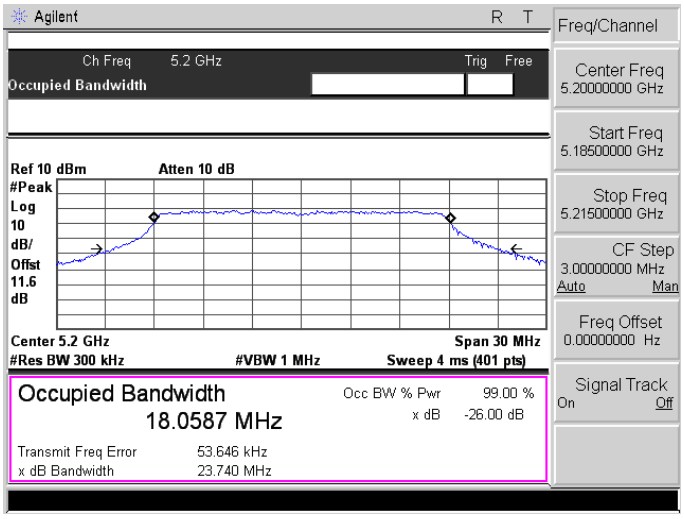
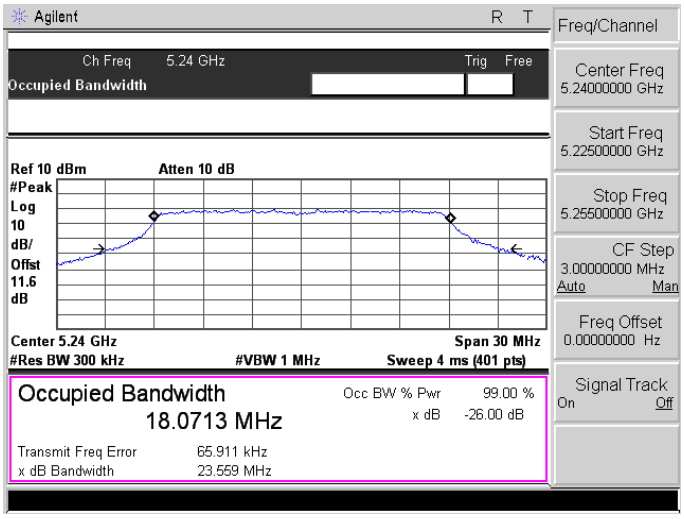
Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
	ANT-0	ANT-1	ANT-0	ANT-1
5190	42.645	42.054	36.5602	36.3701
5230	42.518	41.979	36.6331	36.4006
5270	42.657	42.122	36.6335	36.4229
5310	42.475	41.827	36.6024	36.3443
5510	42.723	41.757	36.6898	36.3723
5550	42.758	41.817	36.6355	36.3733
5670	42.502	42.096	36.6373	36.3981

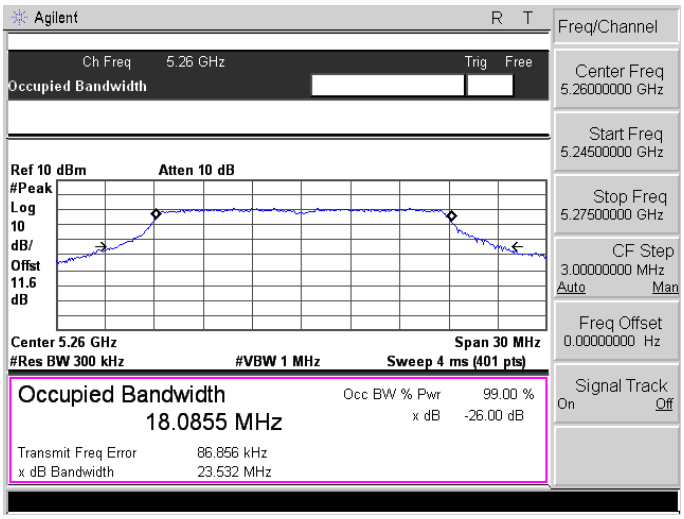
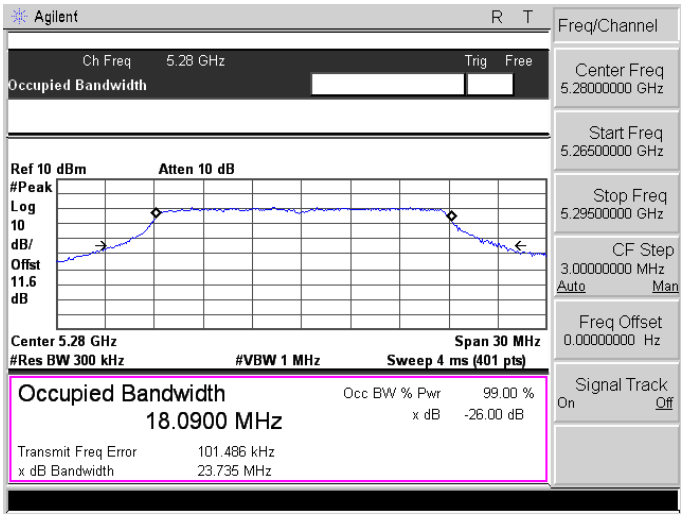
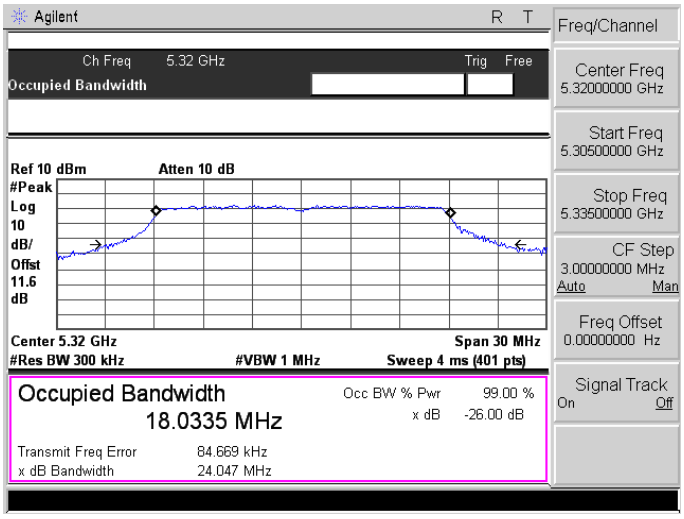
7.6. Test Graphs

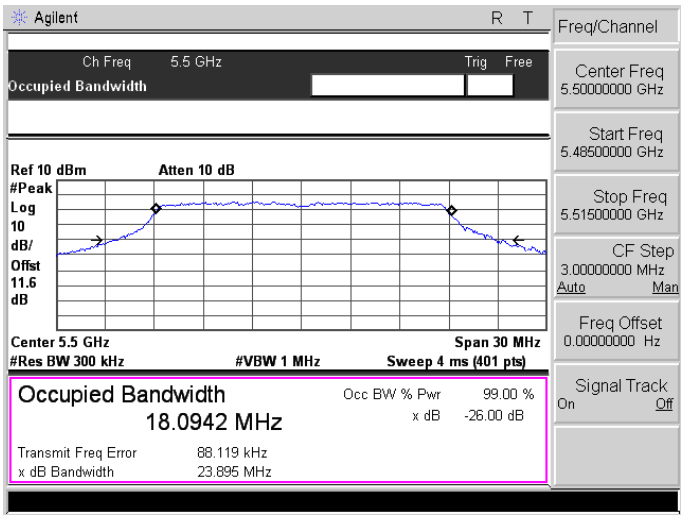
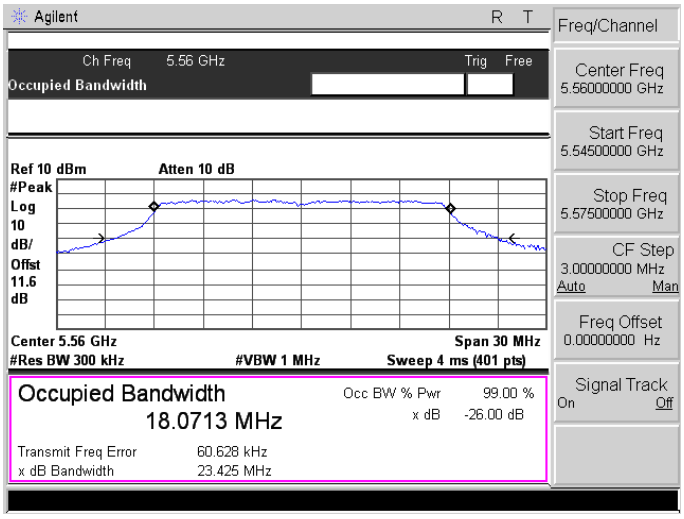
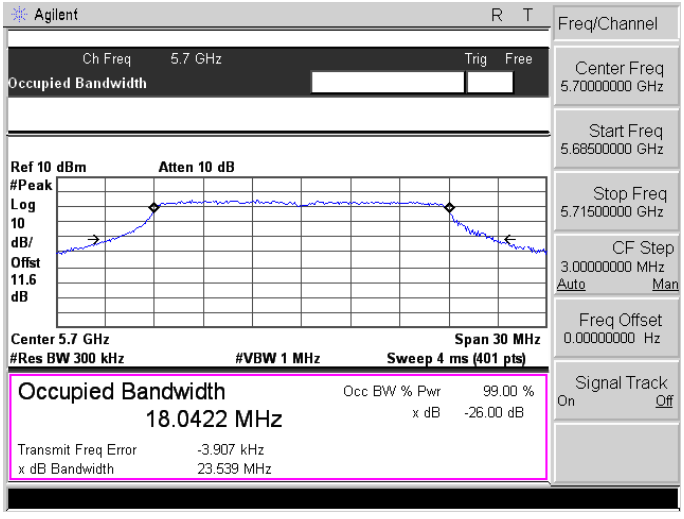
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5180	
5200	
5240	

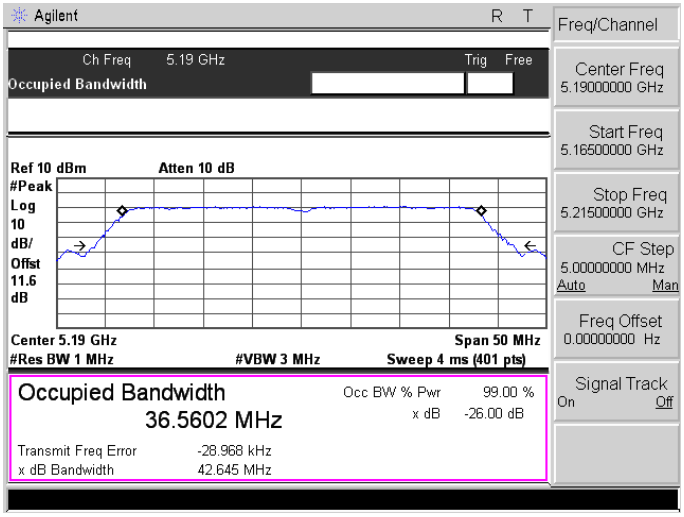
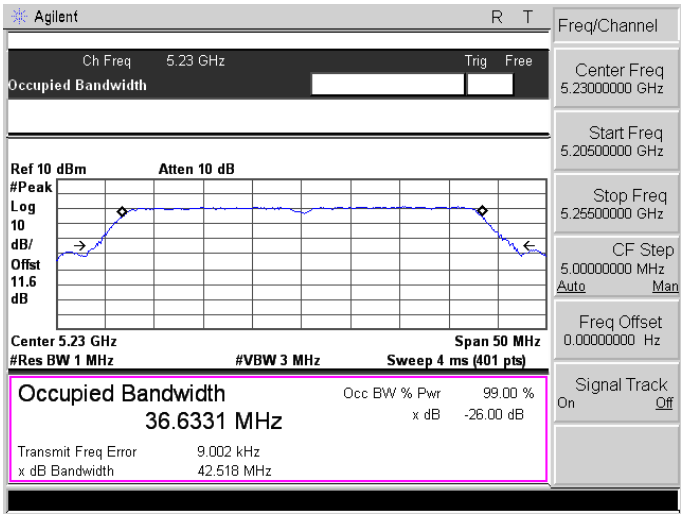
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5260	
5280	
5320	

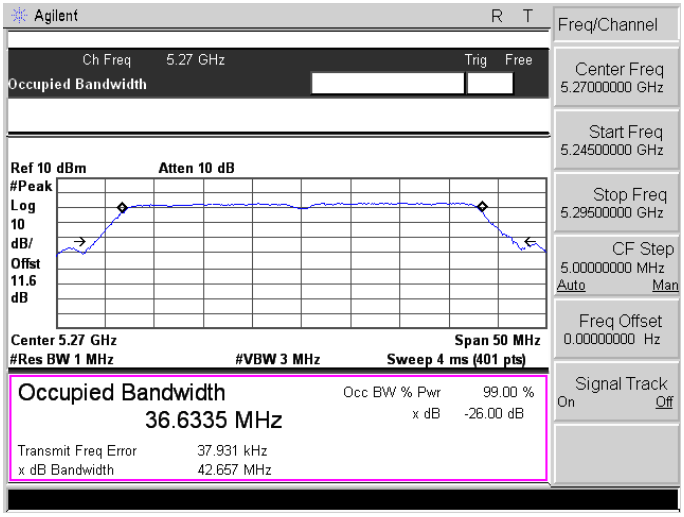
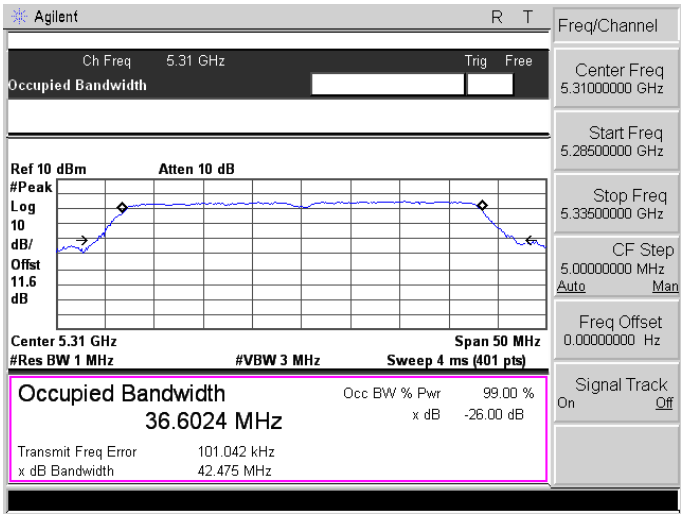
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5500	
5560	
5700	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5180	
5200	
5240	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5260	
5280	
5320	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5500	
5560	
5700	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5190	
5230	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5270	
5310	

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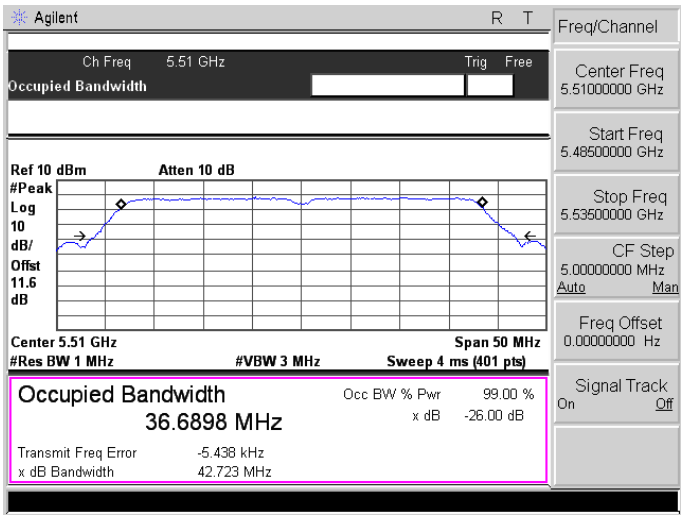
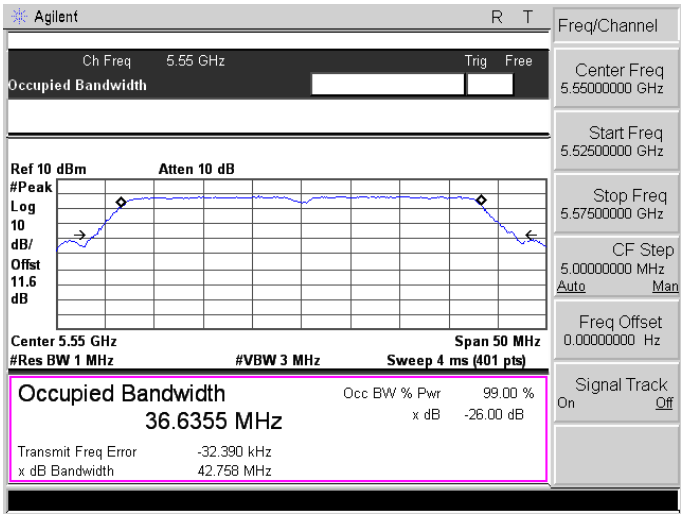
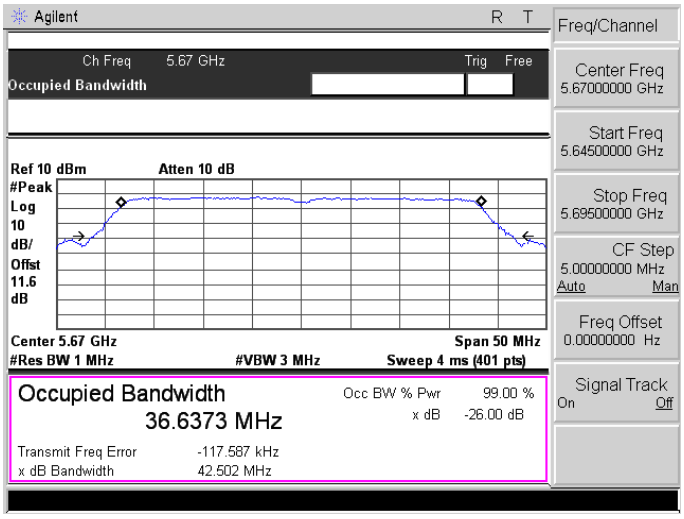
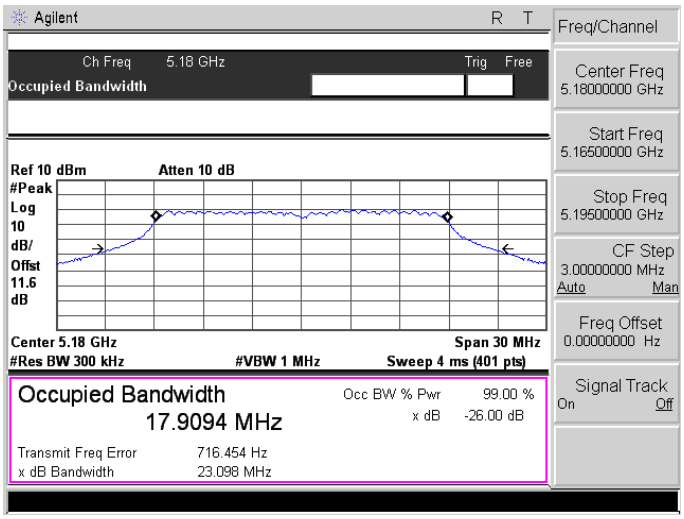
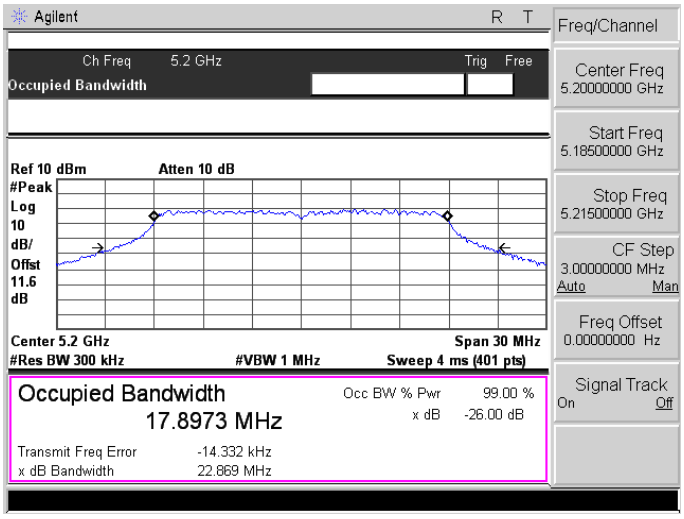
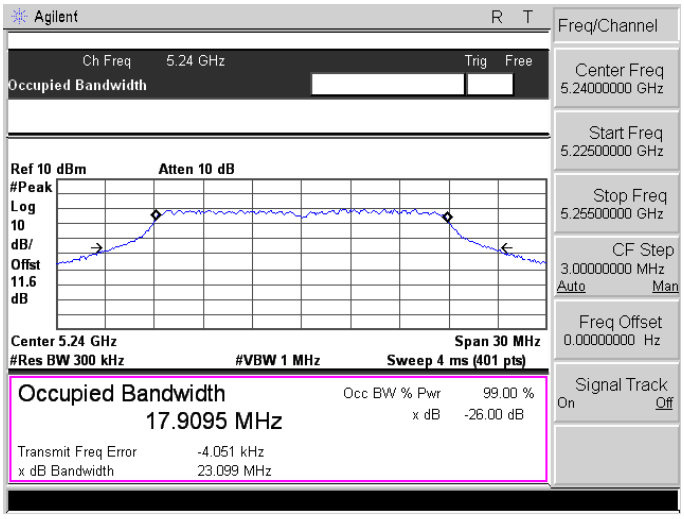
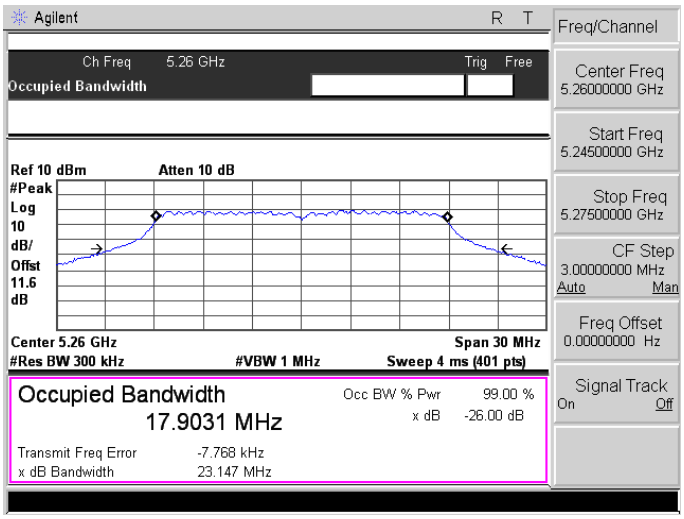
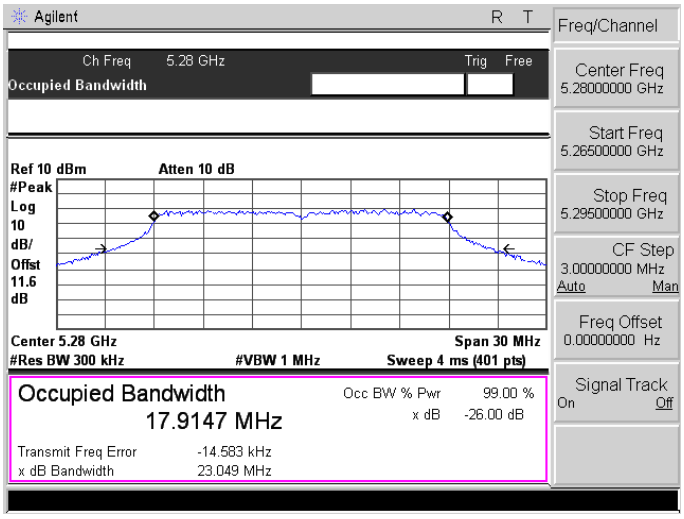
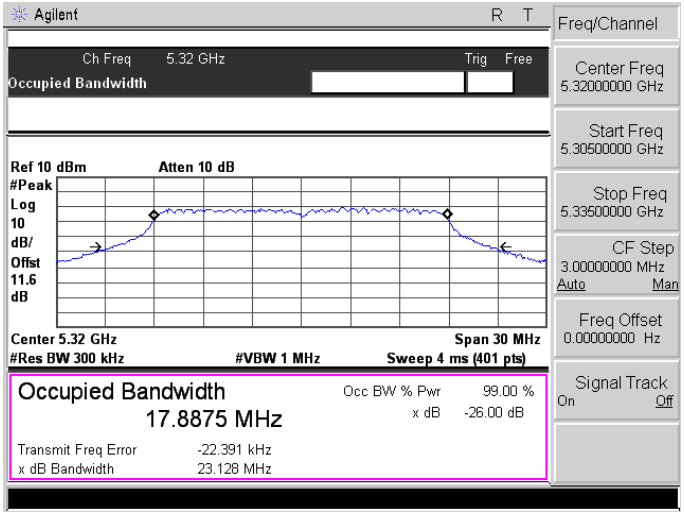
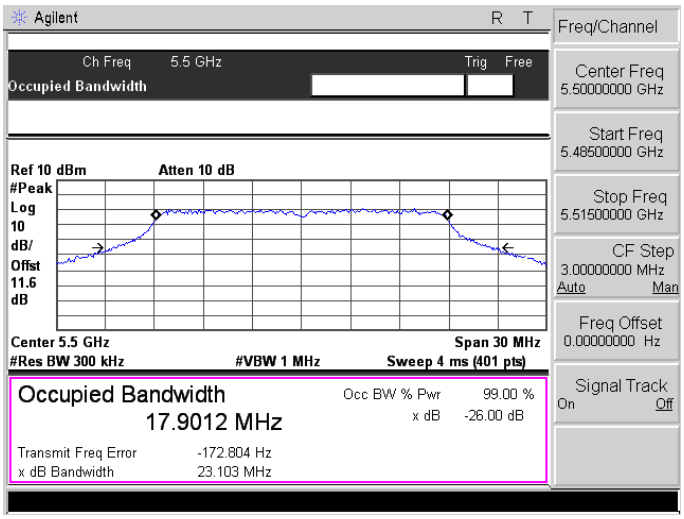
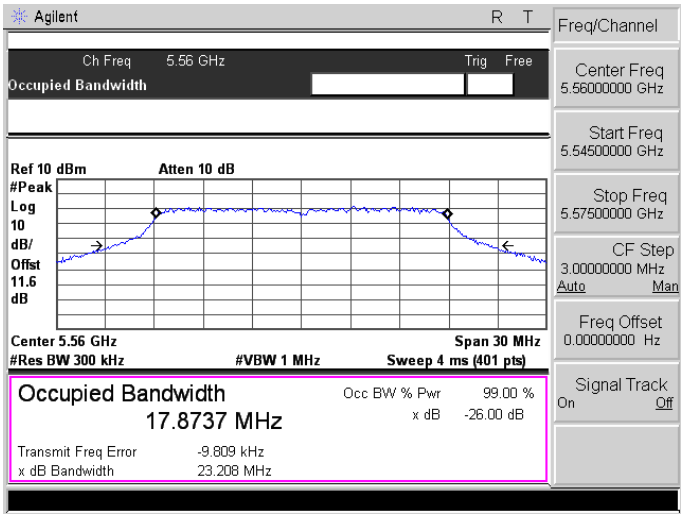
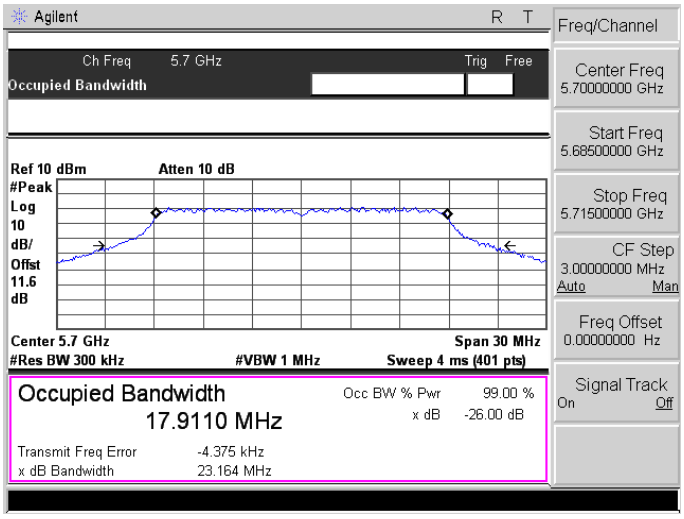
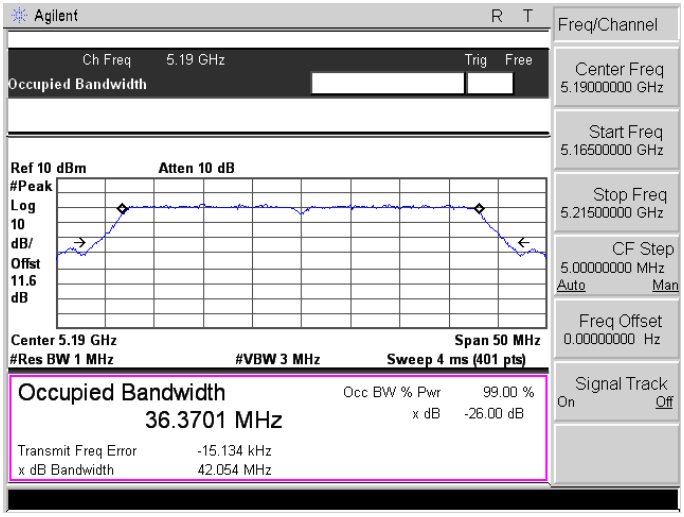
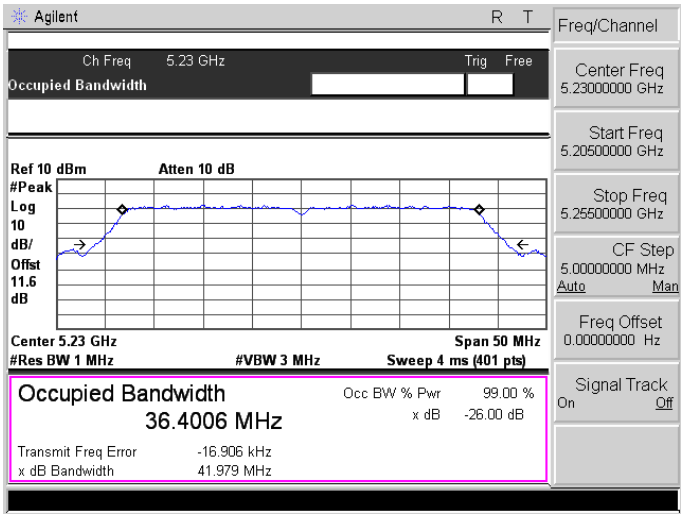
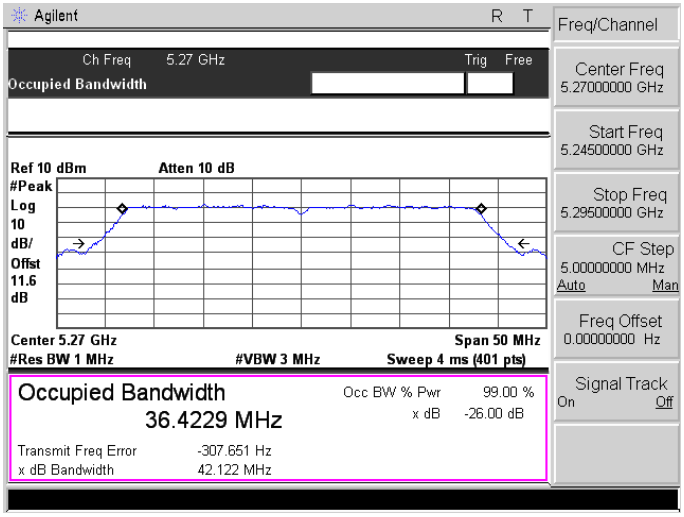
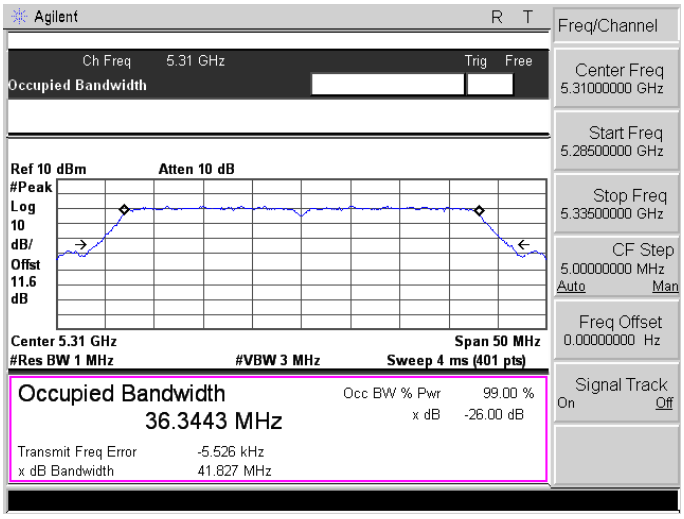
5510	
5550	
5670	

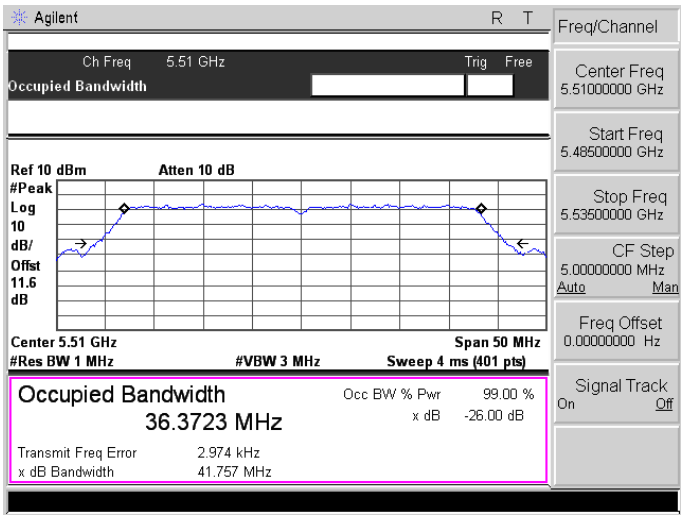
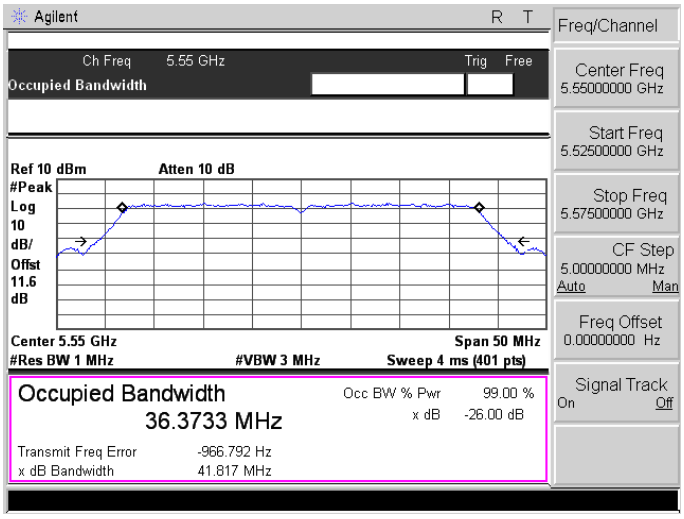
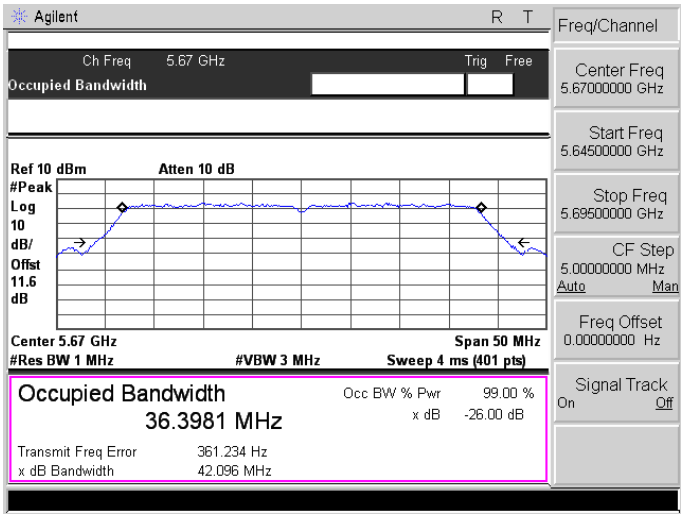
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5180	
5200	
5240	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5260	
5280	
5320	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5500	
5560	
5700	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5190	
5230	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5270	
5310	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5510	
5550	
5670	

8 6dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

8.1. Limit

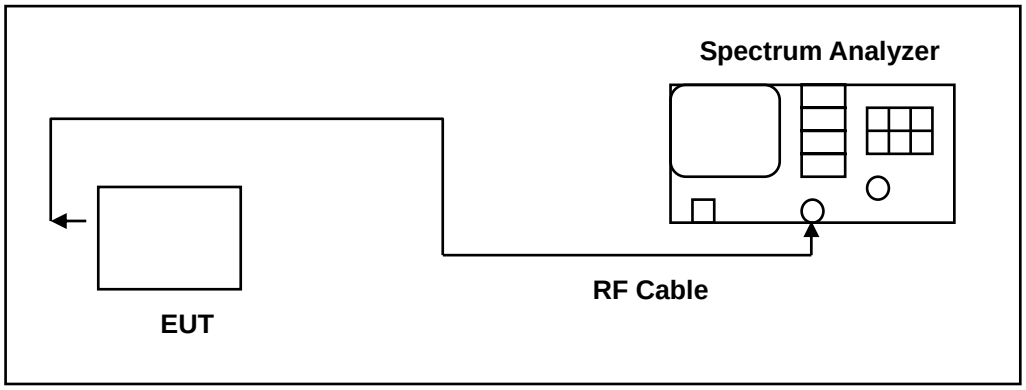
6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth

N/A

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

dRemark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

8.4. Test Procedure

6dB RF Bandwidth

The EUT tested to UNII test procedure of KDB789033 D02 for compliance to FCC 47CFR 15.407 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels.

99 % Occupied Bandwidth

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

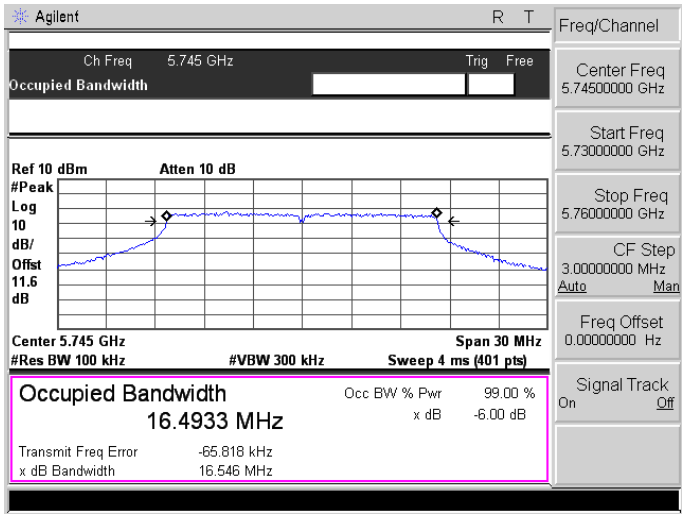
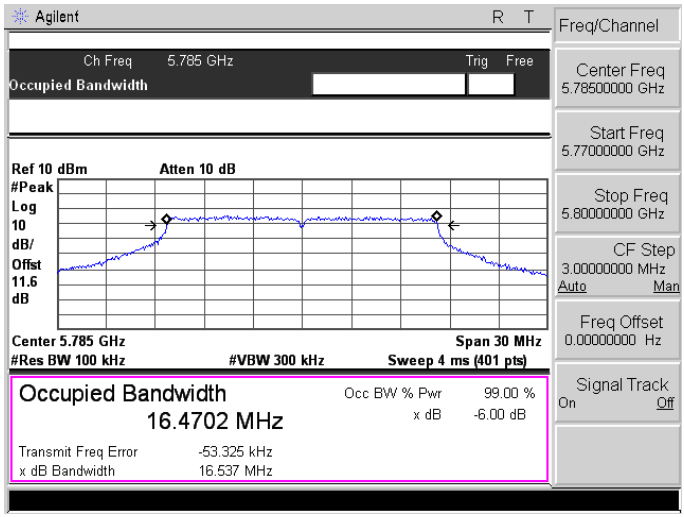
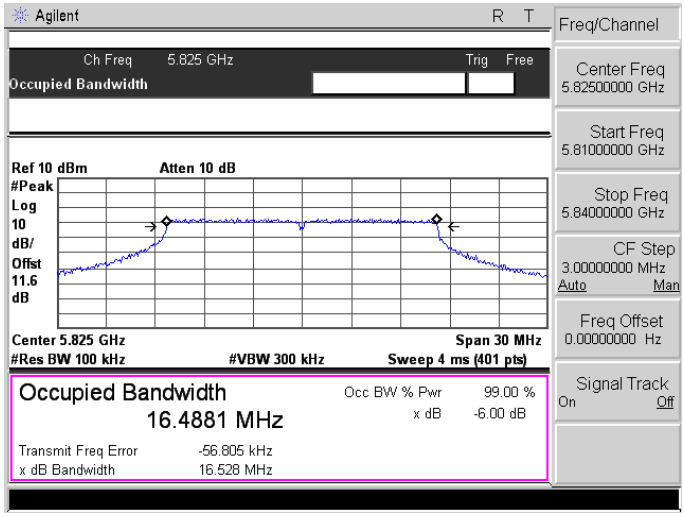
8.5. Test Result

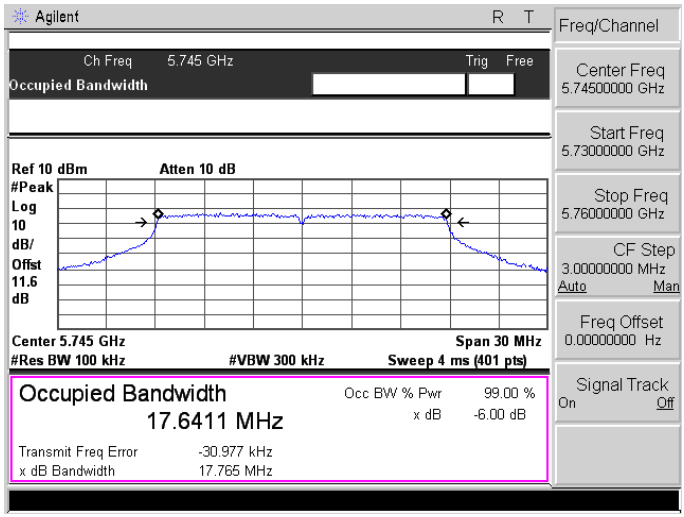
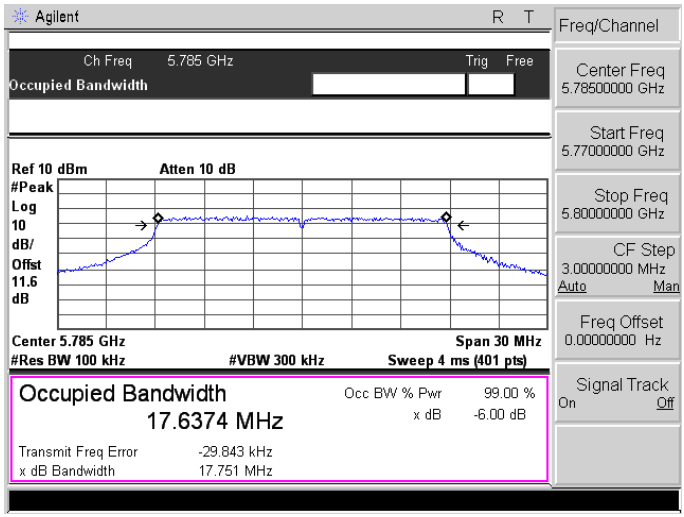
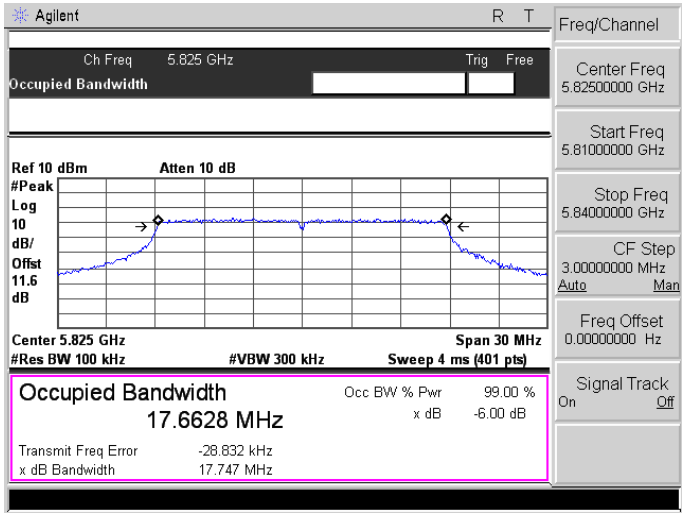
Model Number	P0510			
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	09/02/2015		Test Site	TE05
Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Limit (kHz)	
	ANT-0			
5745	16546	16.4933	> 500	
5785	16537	16.4702	> 500	
5825	16528	16.5280	> 500	

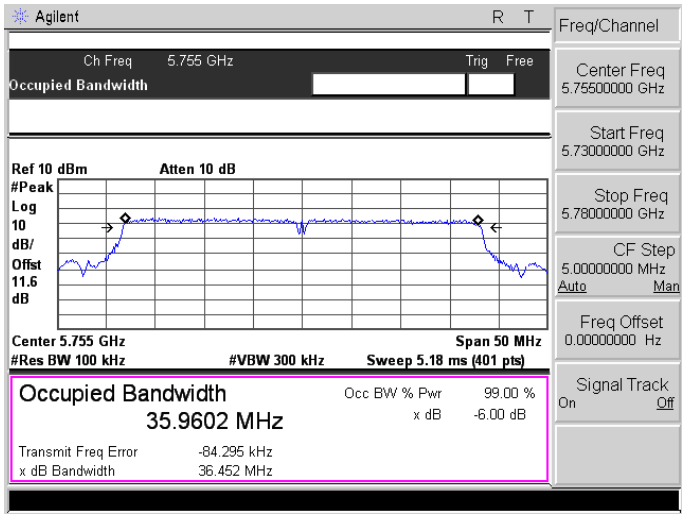
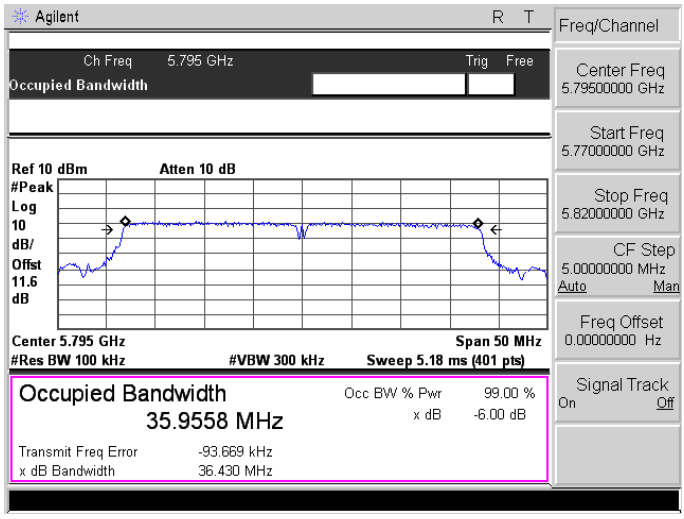
Model Number	P0510				
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth				
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode				
Date of Test	09/02/2015			Test Site	TE05
Frequency (MHz)	6dB Bandwidth (kHz)		99% Occupied Bandwidth (MHz)		6dB Bandwidth Limit (kHz)
	ANT-0	ANT-1	ANT-0	ANT-1	
5745	17765	17739	17.6411	17.6463	> 500
5785	17751	17744	17.6374	17.6470	> 500
5825	17747	17747	17.6628	17.6661	> 500

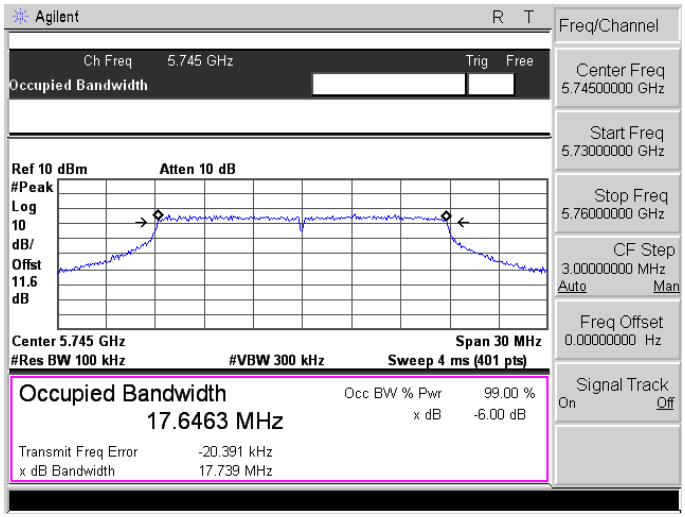
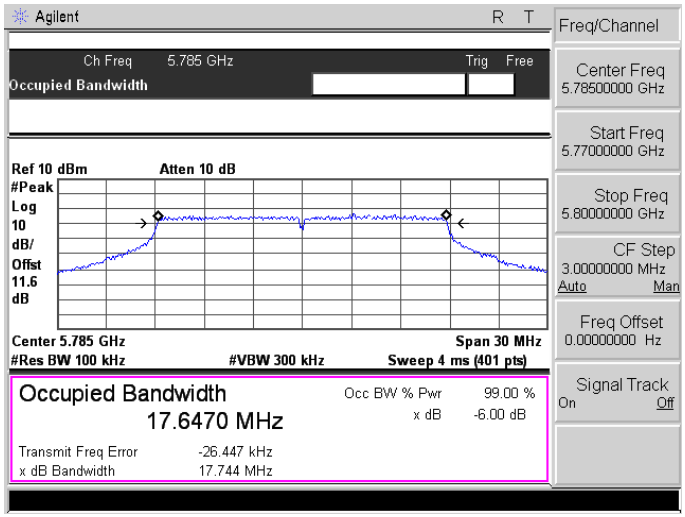
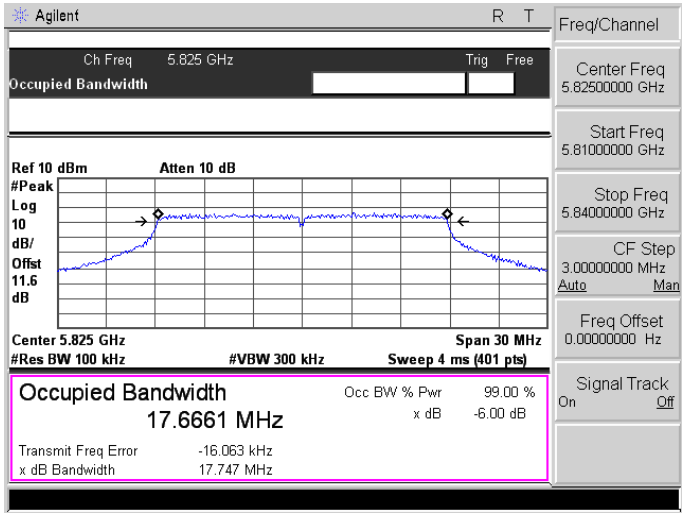
Model Number	P0510				
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth				
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode				
Date of Test	09/02/2015			Test Site	TE05
Frequency (MHz)	6dB Bandwidth (kHz)		99% Occupied Bandwidth (MHz)		6dB Bandwidth Limit (kHz)
	ANT-0	ANT-1	ANT-0	ANT-1	
5755	36452	36484	35.9602	36.0485	> 500
5795	36430	36465	35.9558	36.0242	> 500

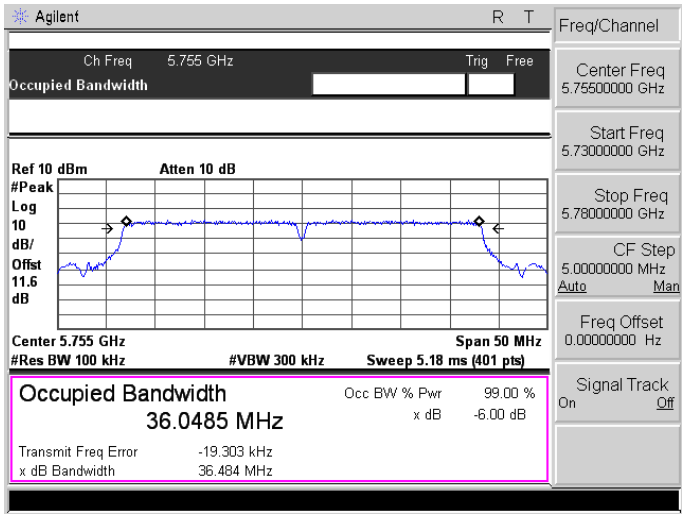
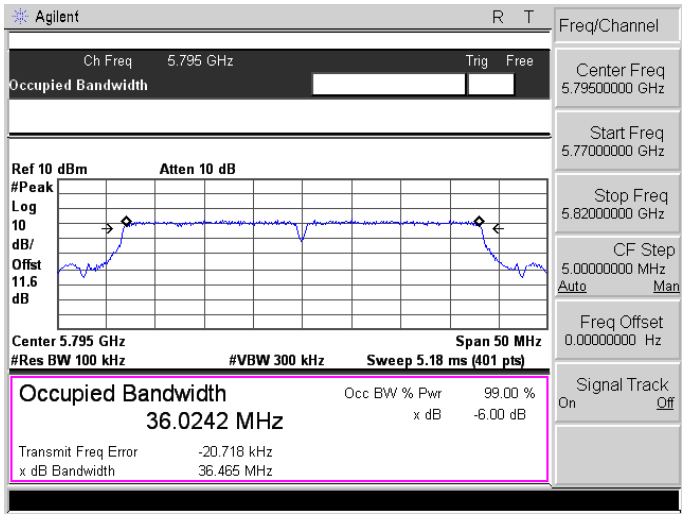
8.6. Test Graphs

Mode 2: IEEE 802.11a Link Mode_ANT-0	
5745	
5785	
5825	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5755	
5795	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5755	
5795	

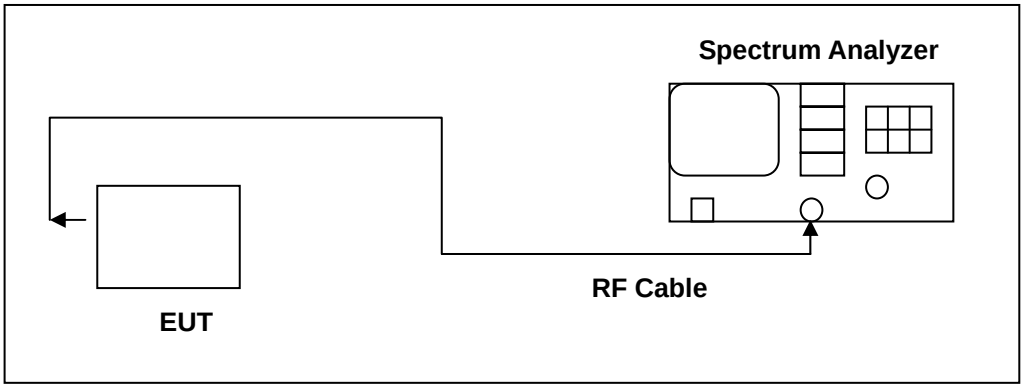
9 Peak Power Spectral Density Measurement

9.1. Limit

Conducted power spectral density

Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	11 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500KHz

9.2. Test Setup



9.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/16/2014	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

9.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

9.5. Test Result

Model Number	P0510		
Test Item	Conducted power spectral density		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	09/02/2015	Test Site	TE02

Frequency (MHz)	Measurement (dBm/MHz)	FCC Limit (dBm/MHz)
	ANT-0	
5180	-9.509	< 11
5200	-9.073	
5240	-8.594	
5260	-10.020	< 11
5280	-8.748	
5320	-7.103	
5500	-5.094	< 11
5560	-4.027	
5700	-5.078	

Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		
5745	-17.41	-10.42	< 30
5785	-18.86	-11.87	
5825	-19.35	-12.36	

Model Number	P0510		
Test Item	Conducted power spectral density		
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode		
Date of Test	09/02/2015	Test Site	TE02

Frequency (MHz)	Measurement (dBm/MHz)			FCC Limit (dBm/MHz)
	ANT-0	ANT-1	ANT-0+1	
5180	-10.610	-13.360	-8.761	< 11
5200	-10.380	-13.410	-8.626	
5240	-10.110	-13.900	-8.594	
5260	-8.608	-13.720	-7.441	< 11
5280	-8.918	-14.060	-7.758	
5320	-8.355	-14.010	-7.310	
5500	-6.614	-12.040	-5.519	< 11
5560	-5.686	-11.440	-4.662	
5700	-7.210	-11.440	-5.819	

Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		ANT-1		
5745	-17.99	-11.00	-19.94	-12.95	< 30
5785	-19.62	-12.63	-19.69	-12.70	
5825	-21.51	-14.52	-19.59	-12.60	

Frequency (MHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0+1	
5745	-8.86	< 30
5785	-9.65	
5825	-10.44	

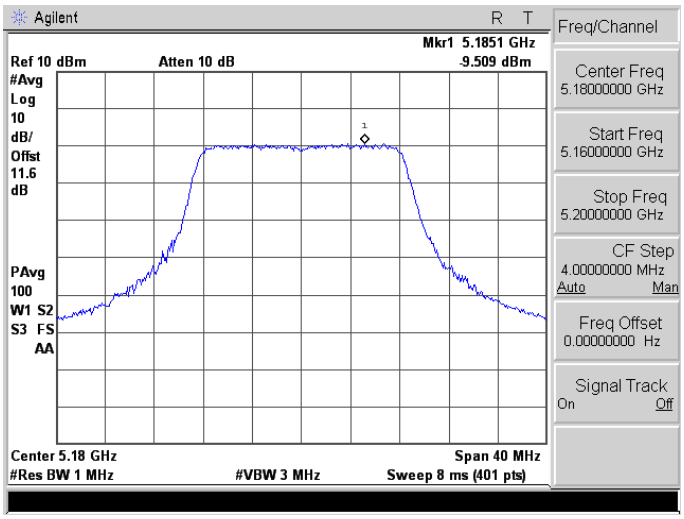
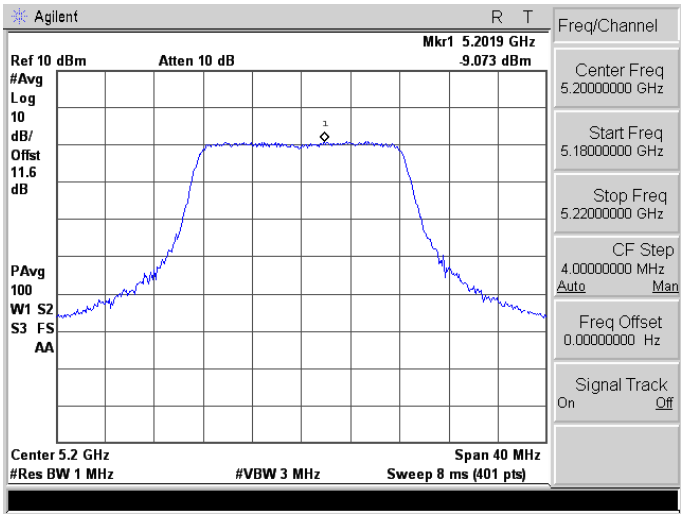
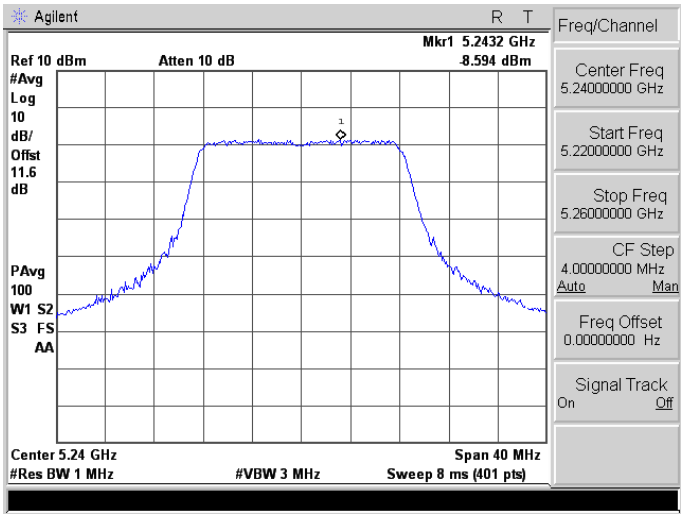
Model Number	P0510		
Test Item	Conducted power spectral density		
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode		
Date of Test	09/02/2015	Test Site	TE02

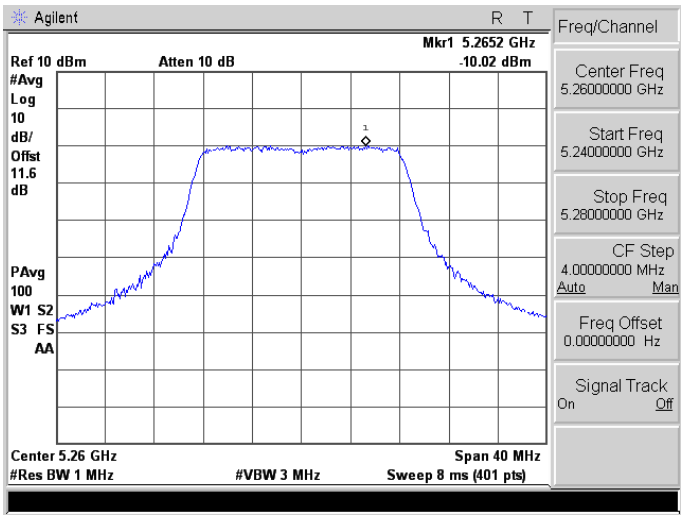
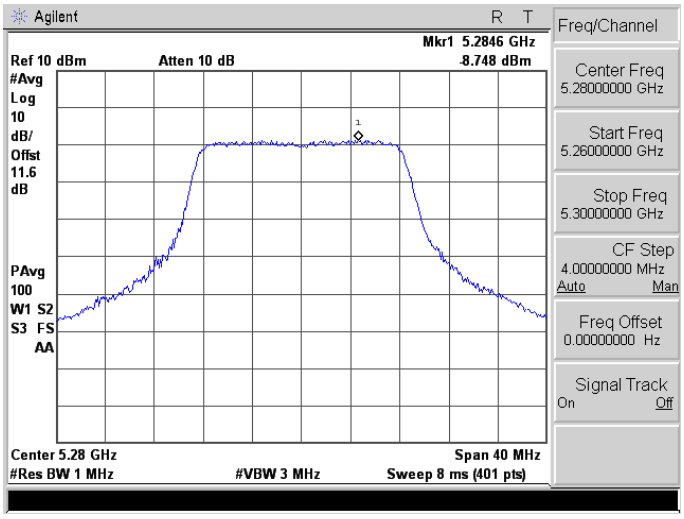
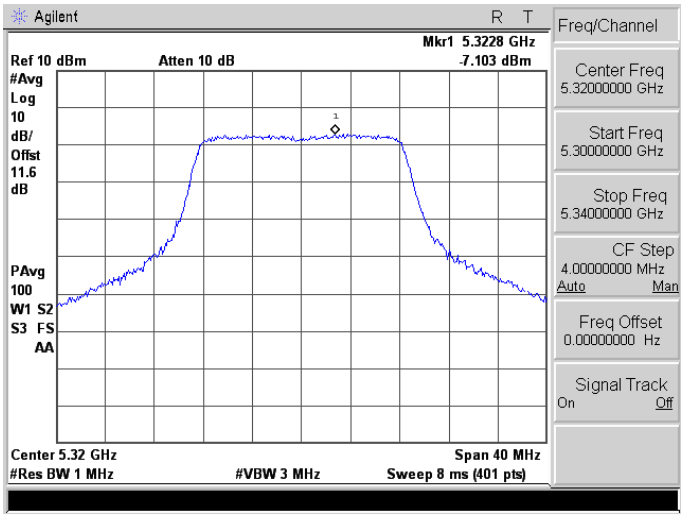
Frequency (MHz)	Measurement (dBm/MHz)			FCC Limit (dBm/MHz)
	ANT-0	ANT-1	ANT-0+1	
5190	-14.390	-16.580	-12.338	< 11
5230	-13.850	-17.060	-12.155	
5270	-13.100	-16.940	-11.598	< 11
5310	-12.100	-17.170	-10.923	
5510	-10.070	-14.800	-8.810	< 11
5550	-9.605	-14.690	-8.432	
5670	-10.070	-14.870	-8.828	

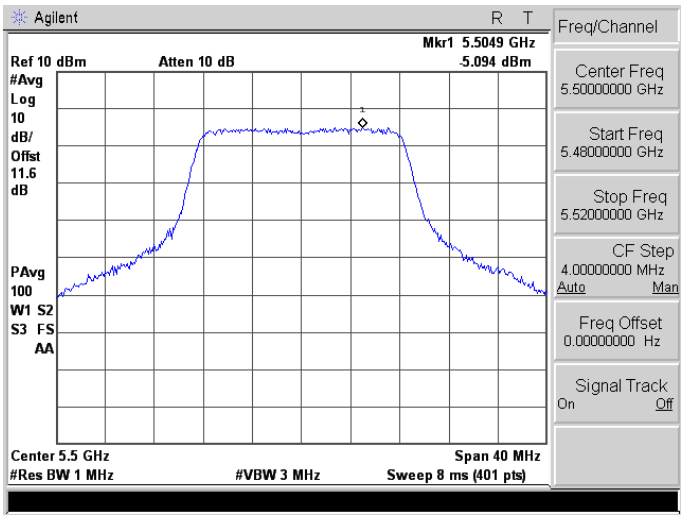
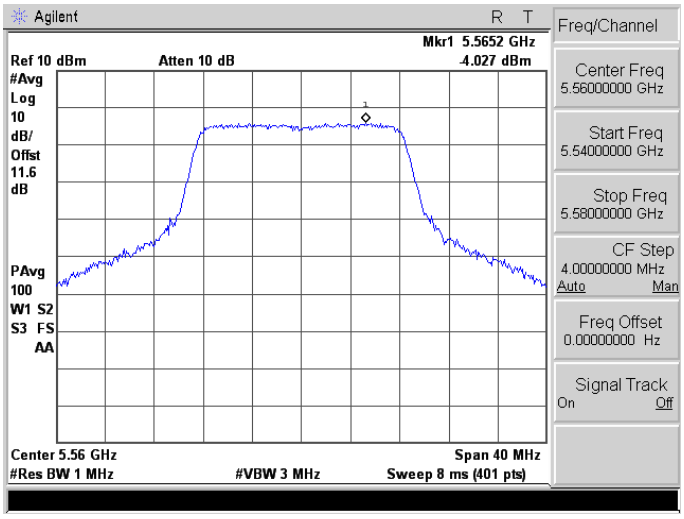
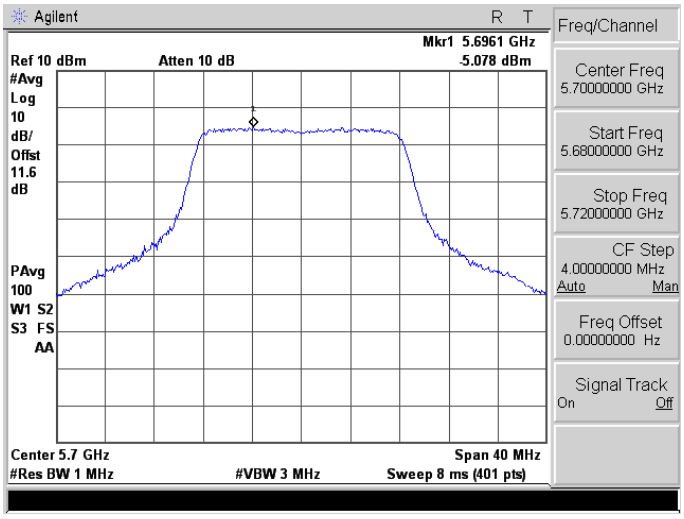
Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0		ANT-1		
5755	-21.33	-14.34	-22.92	-15.93	< 30
5795	-22.25	-15.26	-22.66	-15.67	

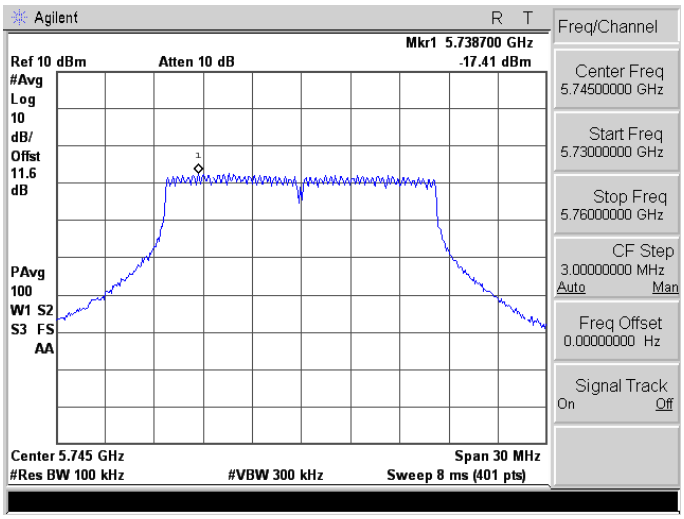
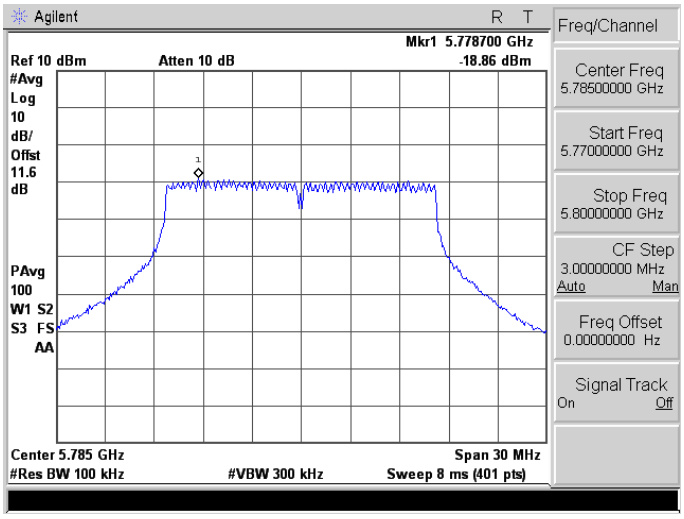
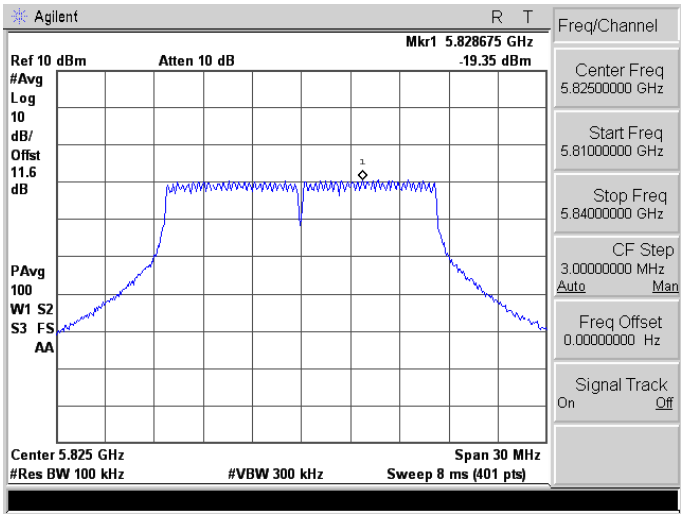
Frequency (MHz)	Measurement (dBm/500KHz)	FCC Limit (dBm/500KHz)
	ANT-0+1	
5755	-12.05	< 30
5795	-12.45	

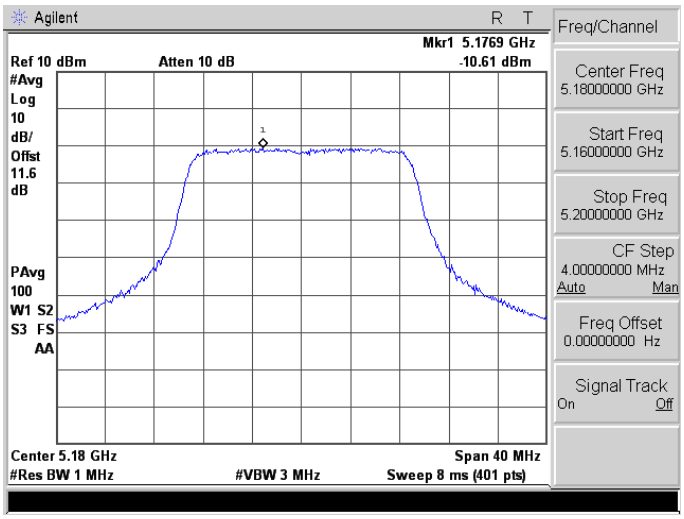
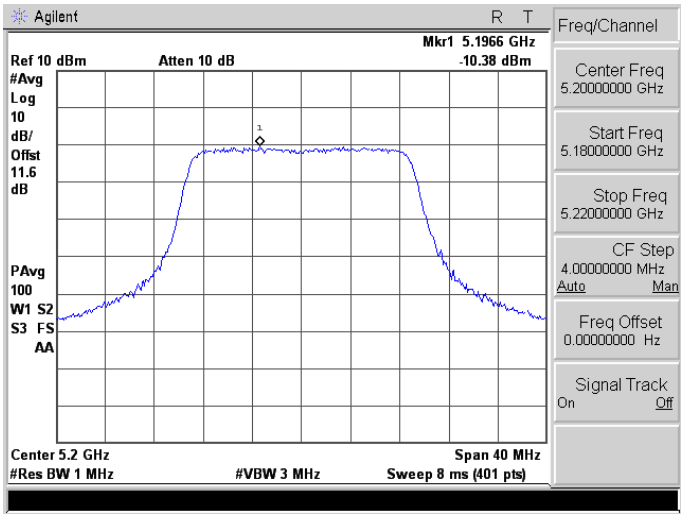
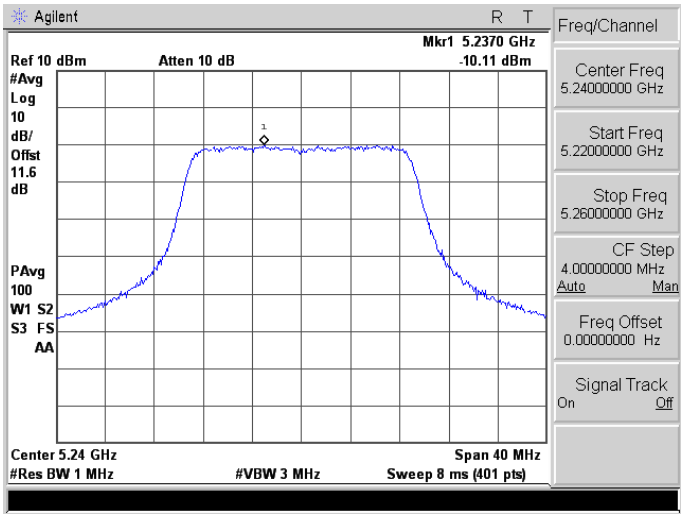
9.6. Test Graphs

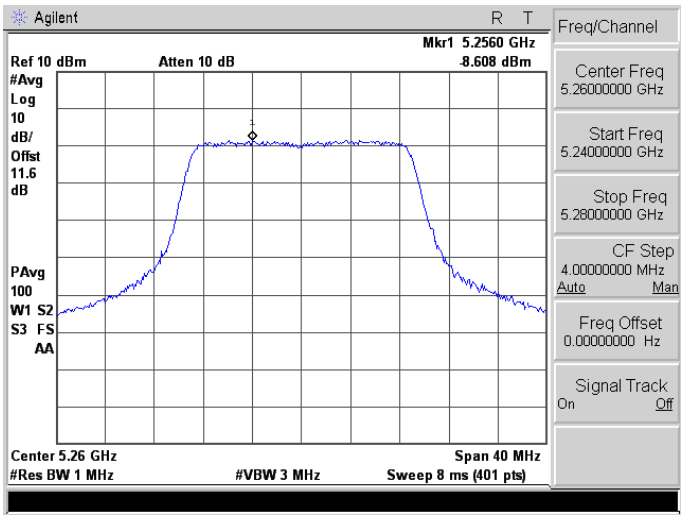
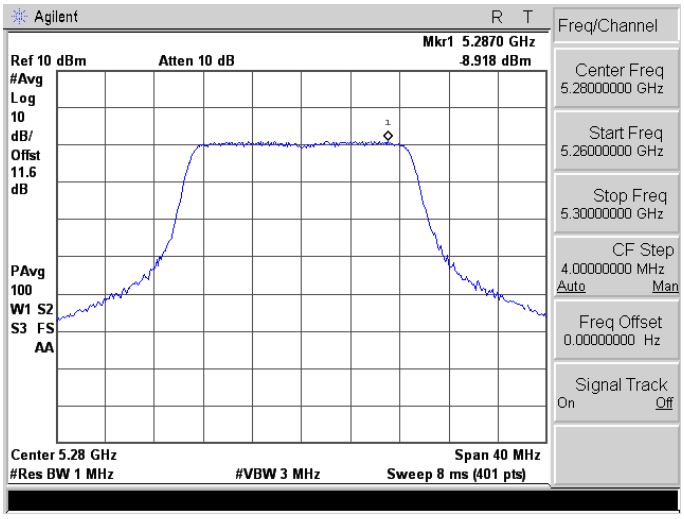
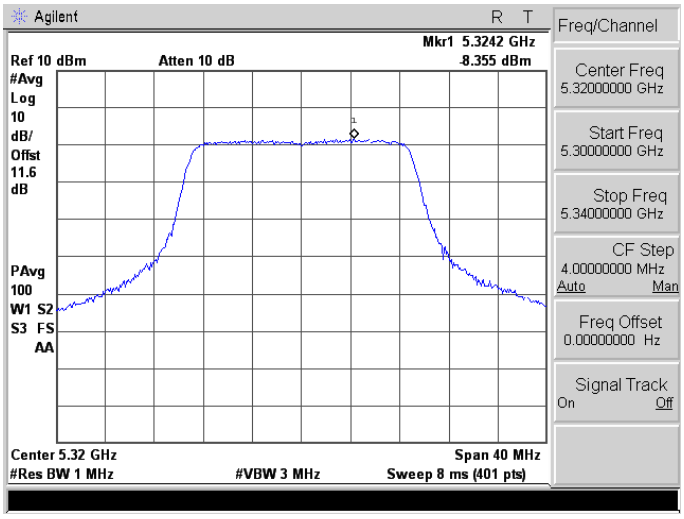
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5180	
5200	
5240	

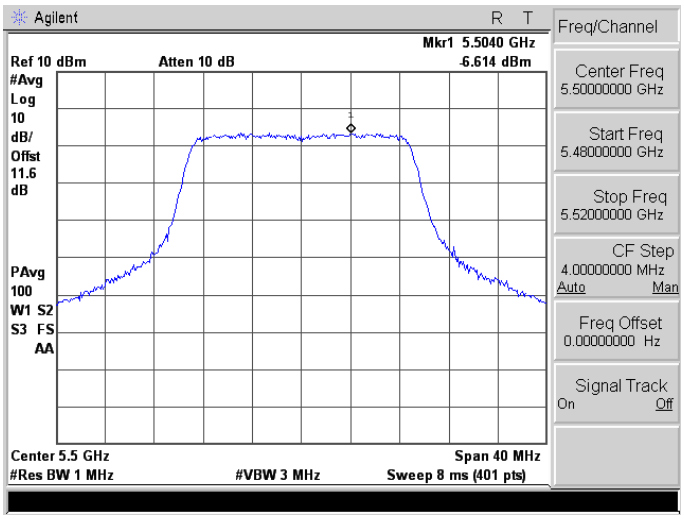
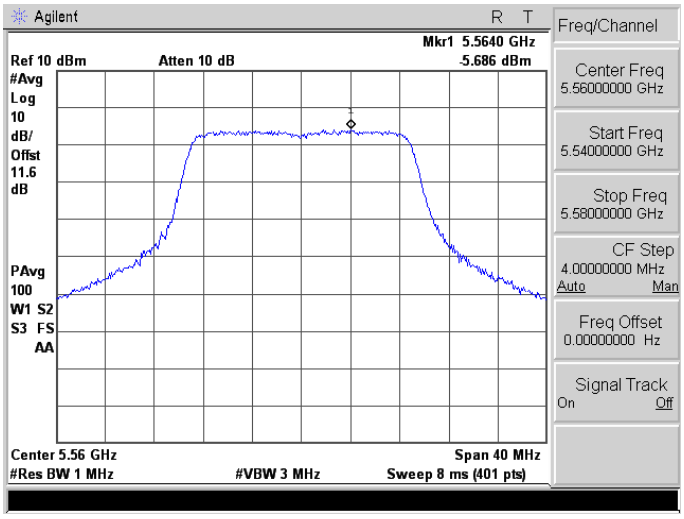
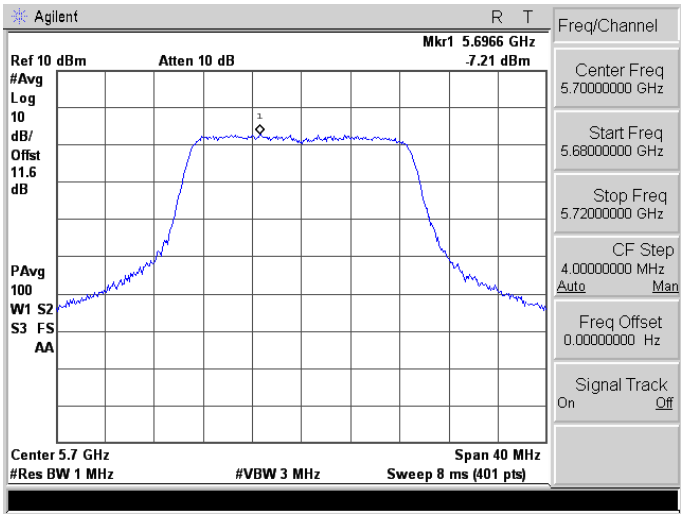
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5260	
5280	
5320	

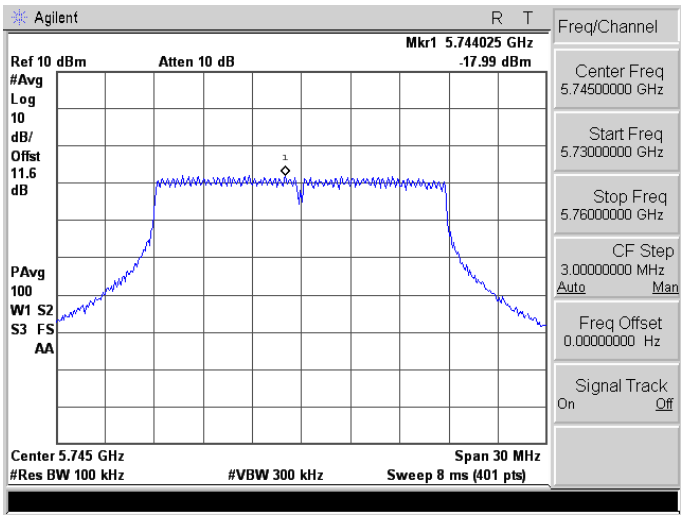
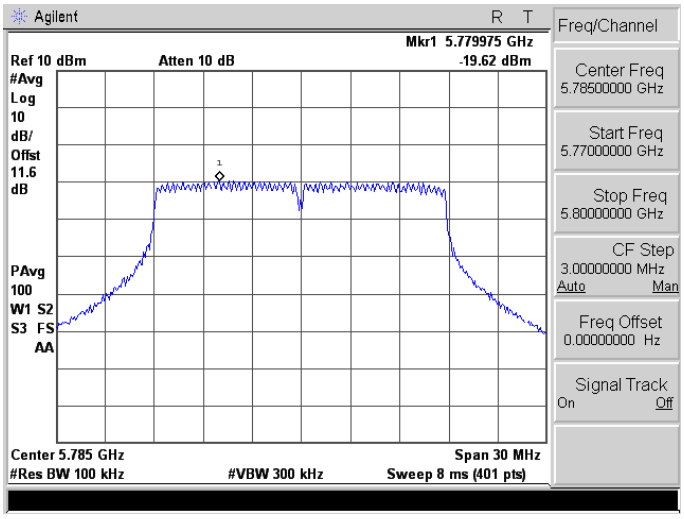
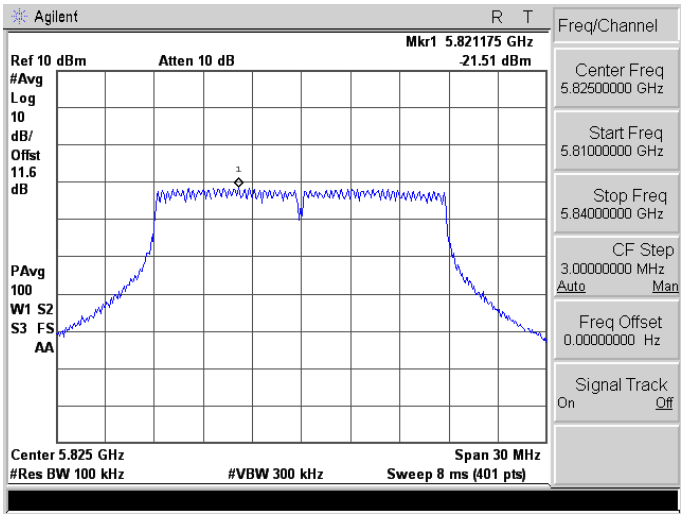
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5500	
5560	
5700	

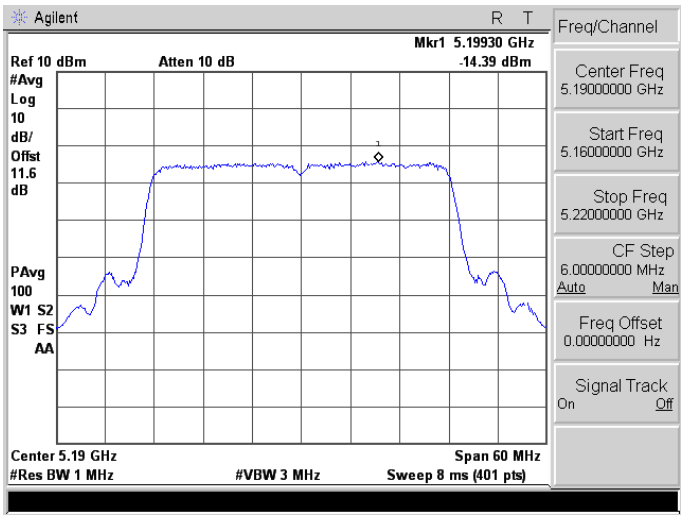
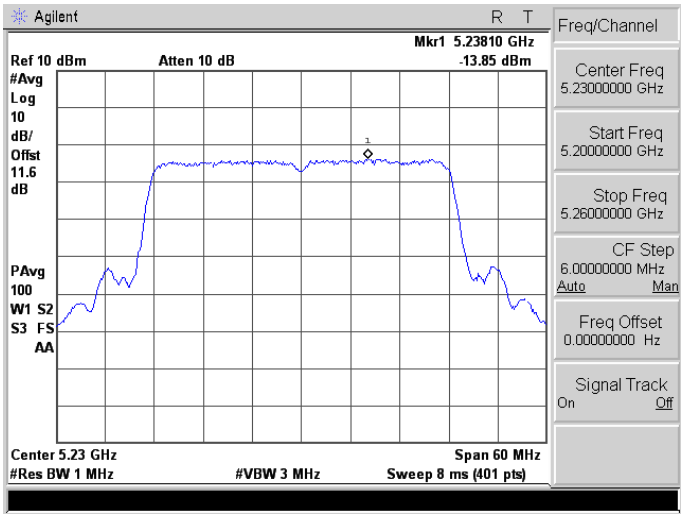
Mode 2: IEEE 802.11a Link Mode_ANT-0	
5745	
5785	
5825	

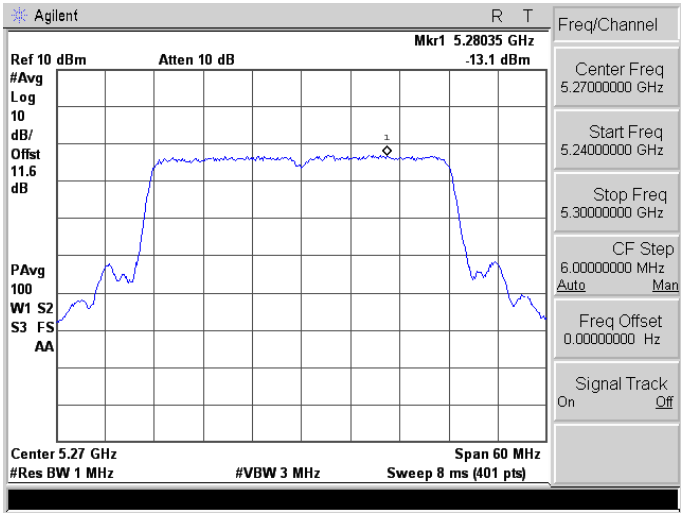
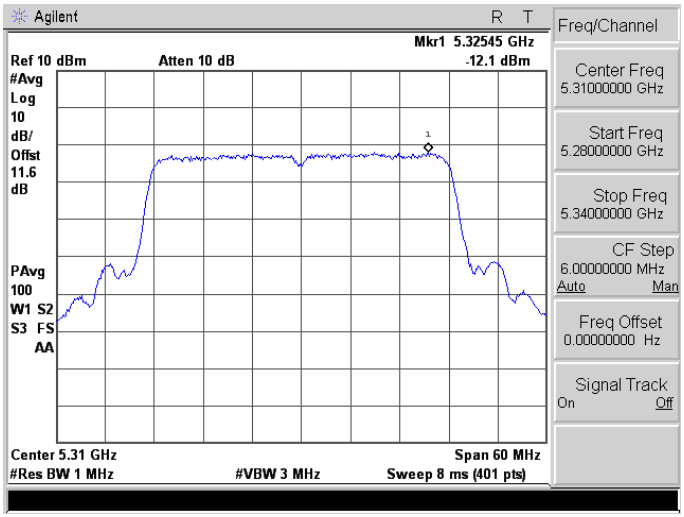
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5180	
5200	
5240	

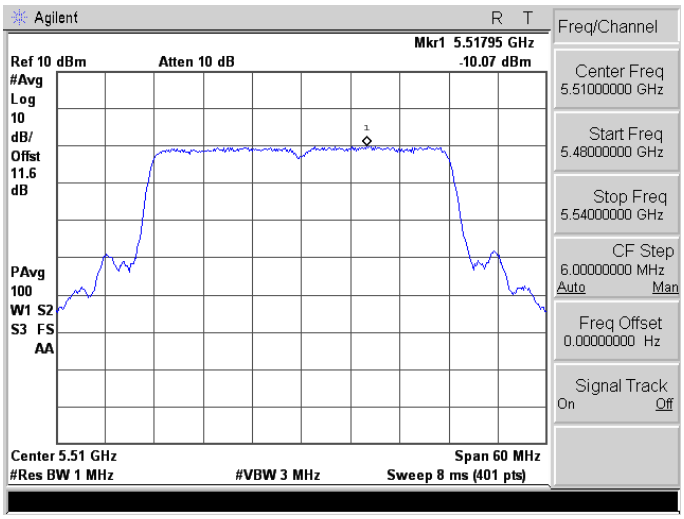
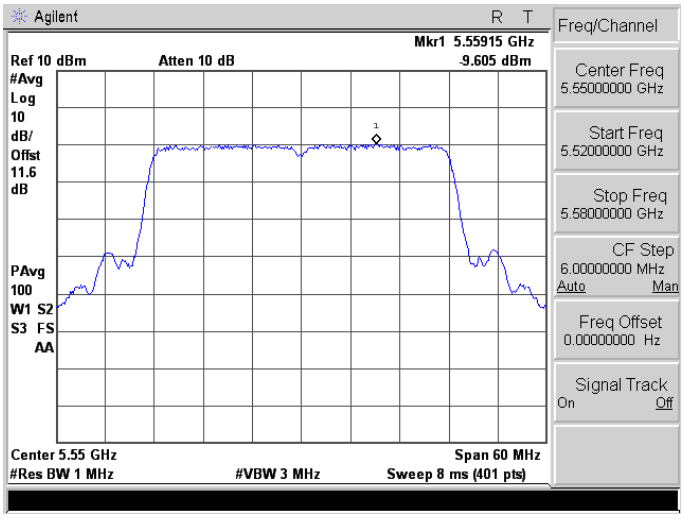
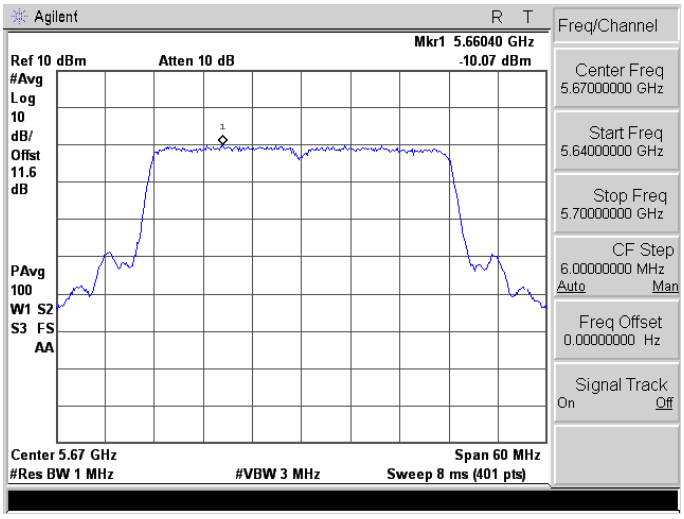
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5260	
5280	
5320	

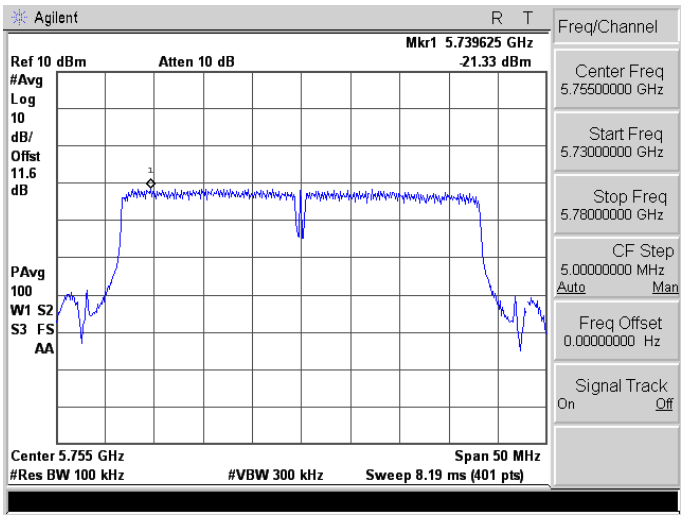
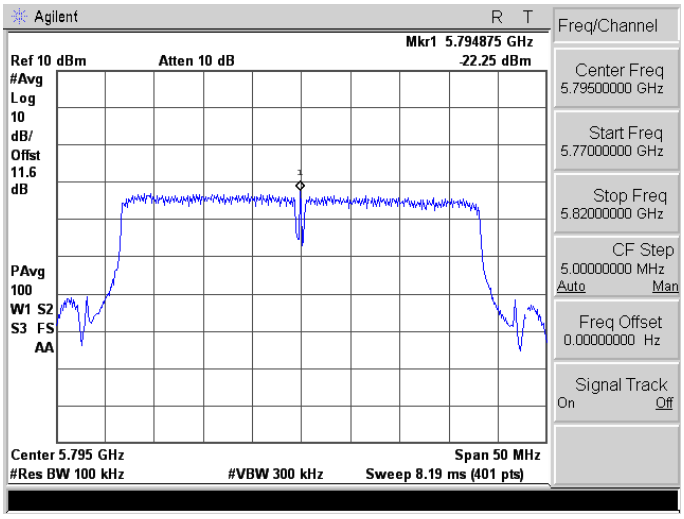
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5500	
5560	
5700	

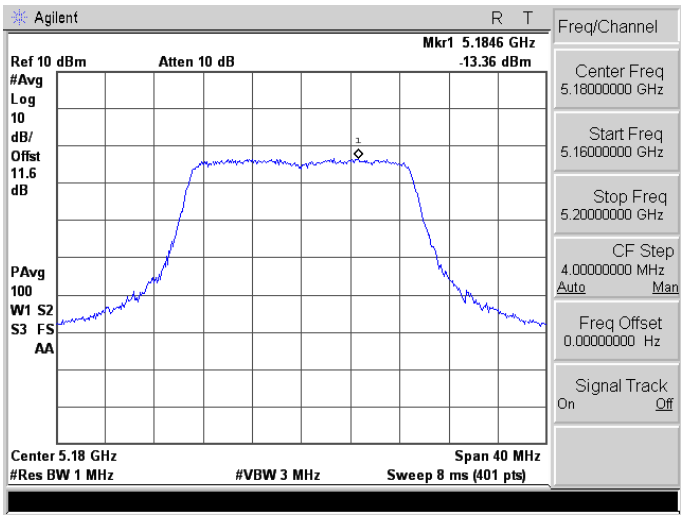
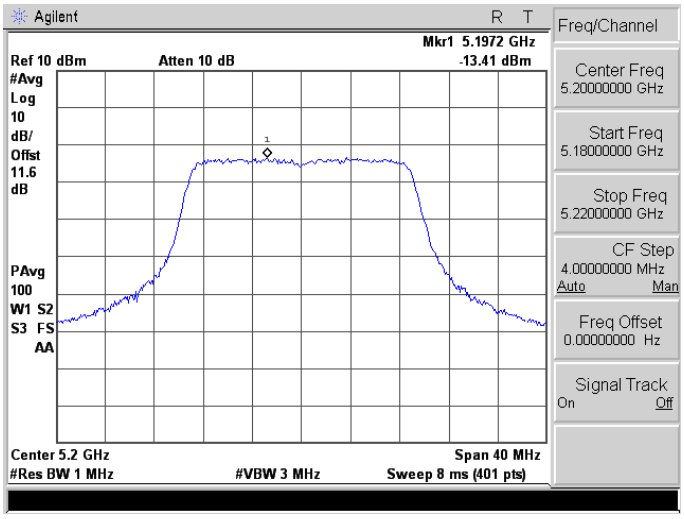
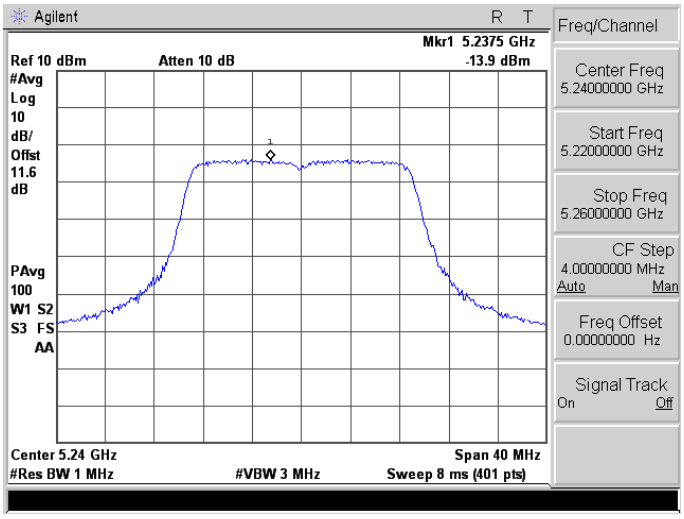
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-0	
5745	
5785	
5825	

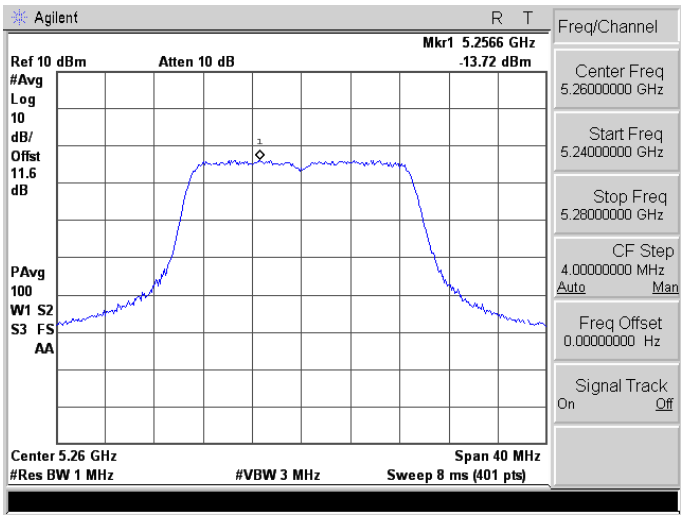
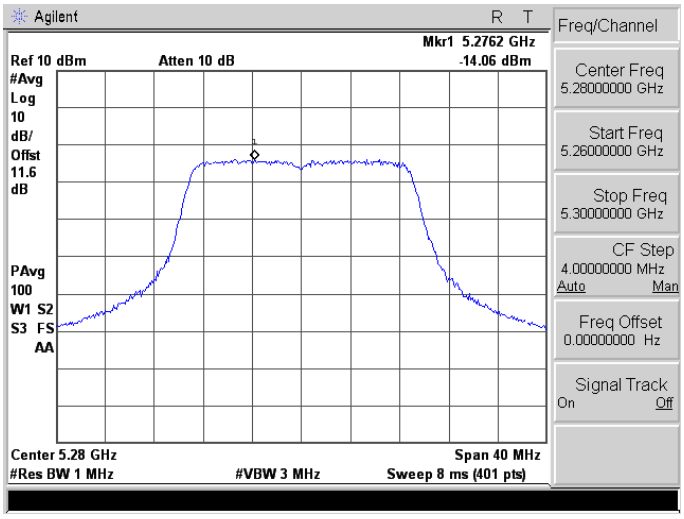
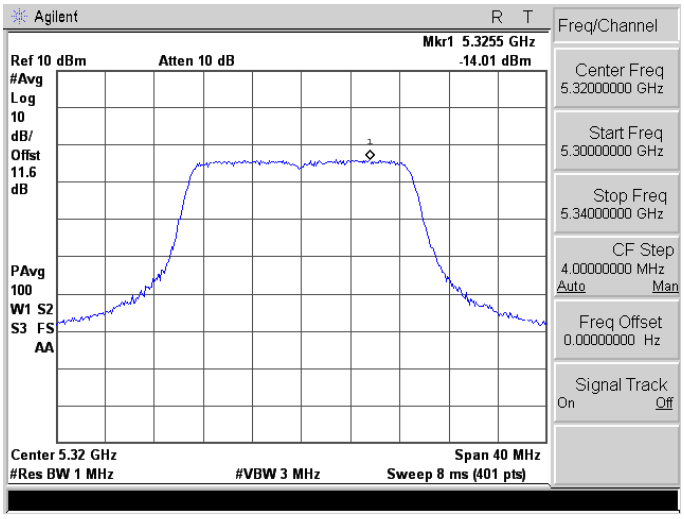
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5190	
5230	

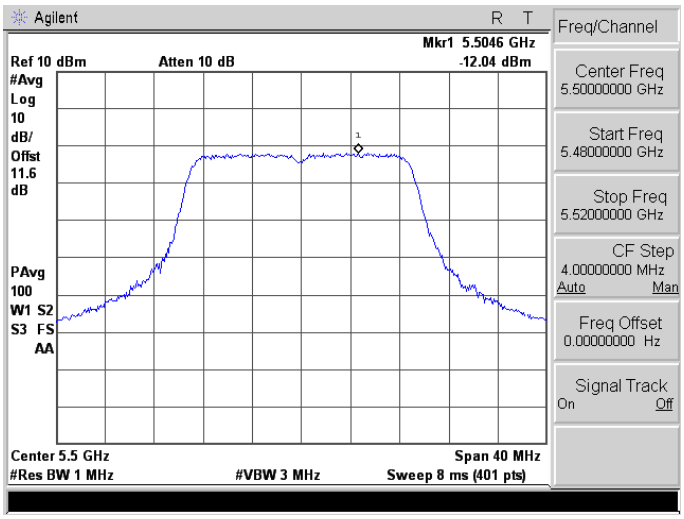
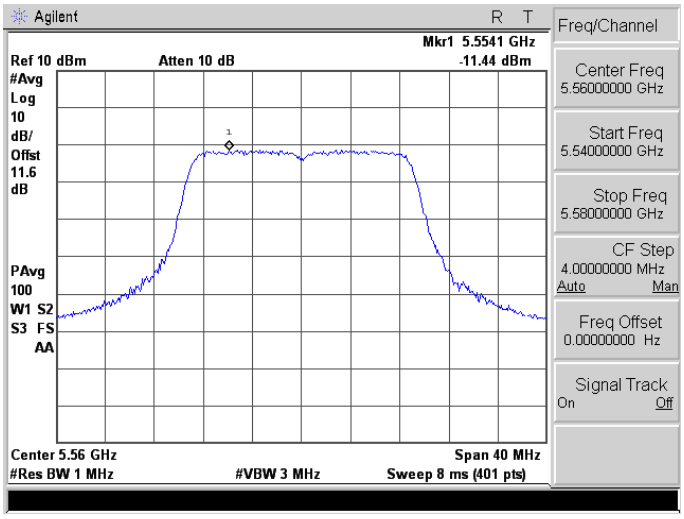
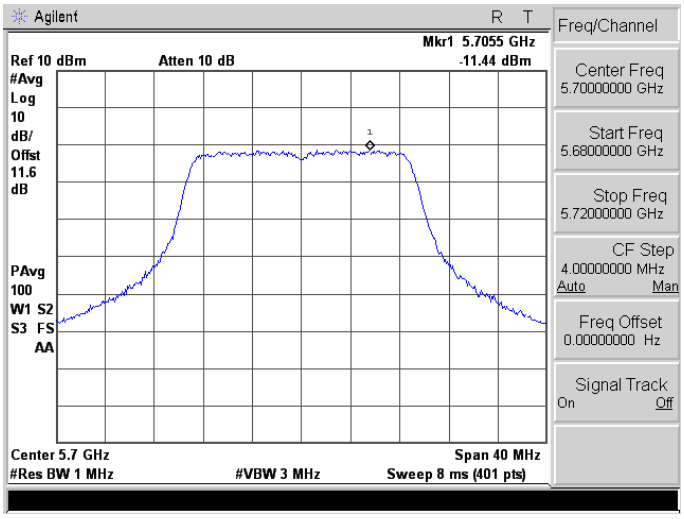
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5270	
5310	

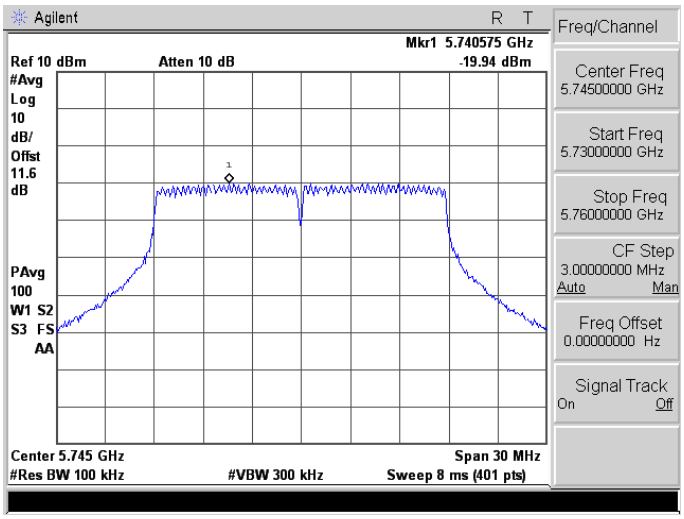
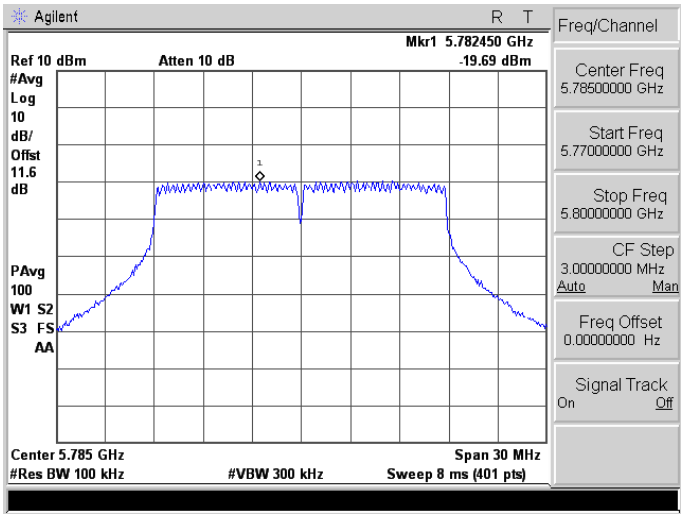
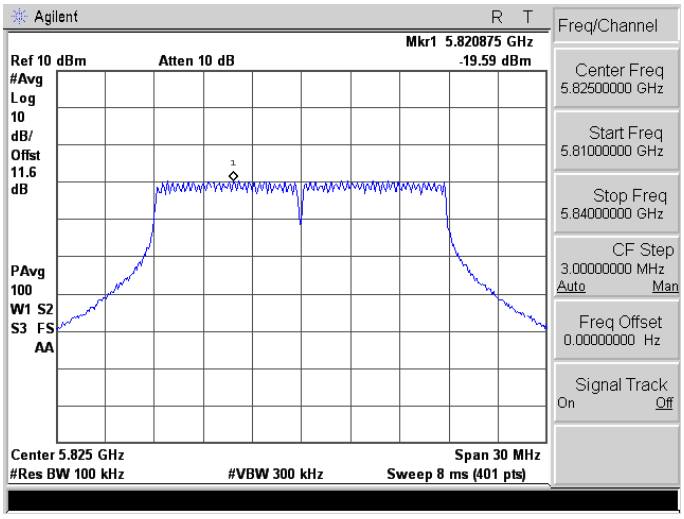
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5510	
5550	
5670	

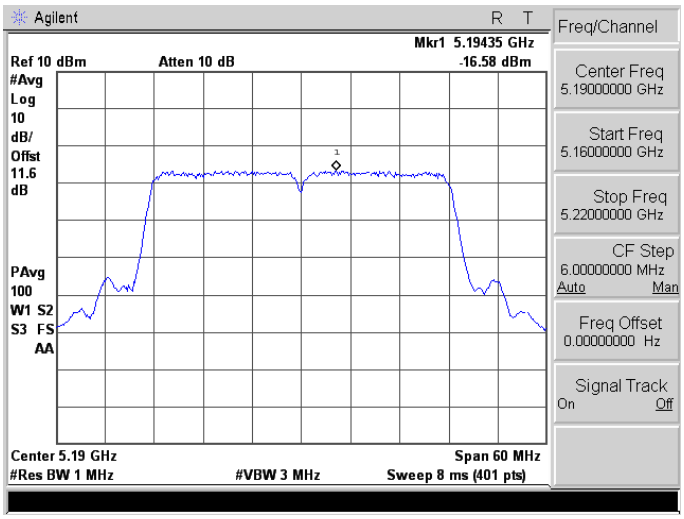
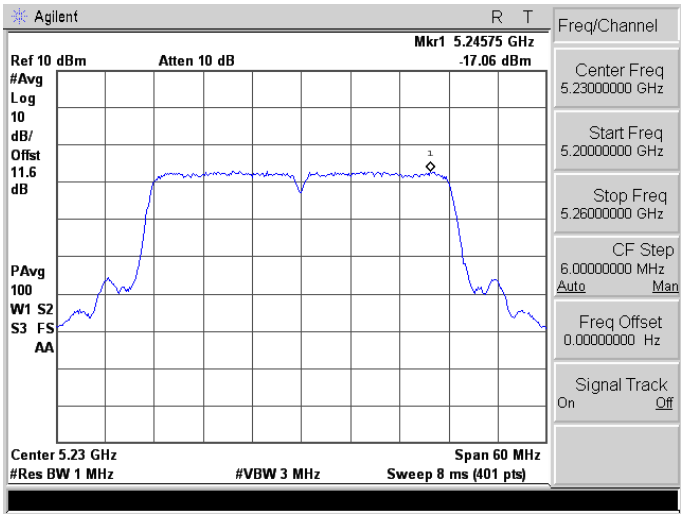
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-0	
5755	
5795	

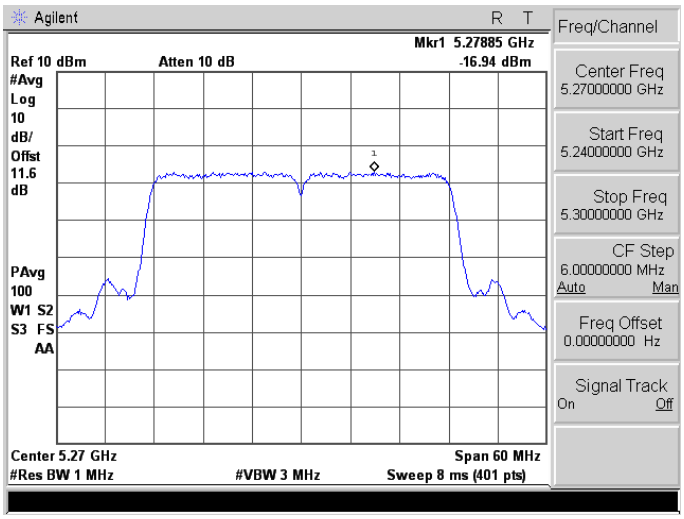
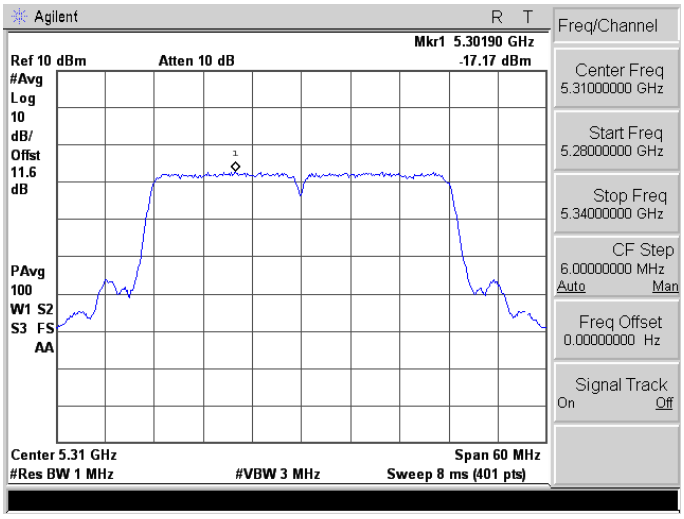
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5180	
5200	
5240	

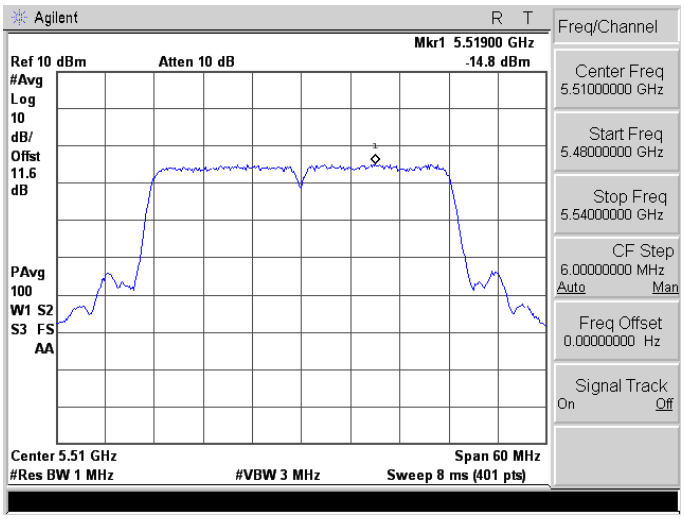
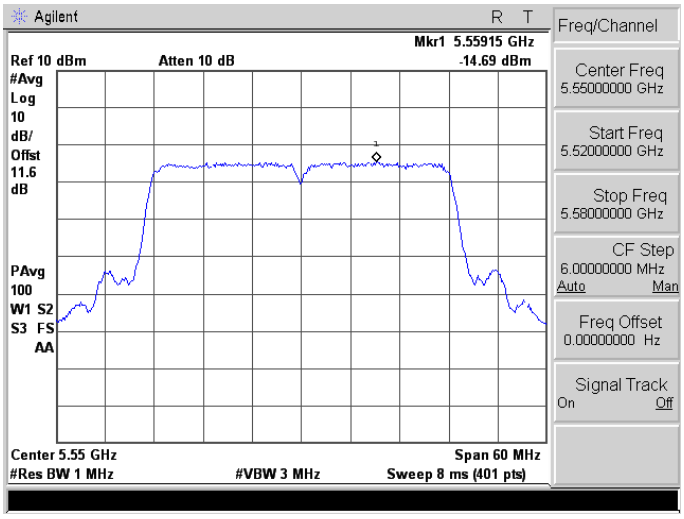
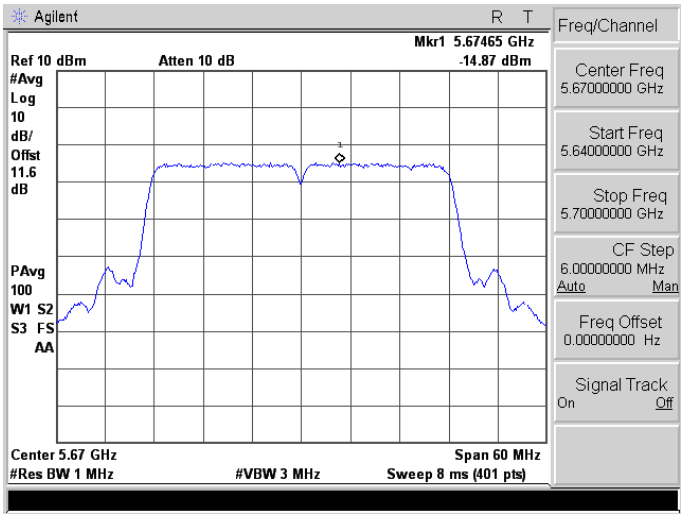
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5260	
5280	
5320	

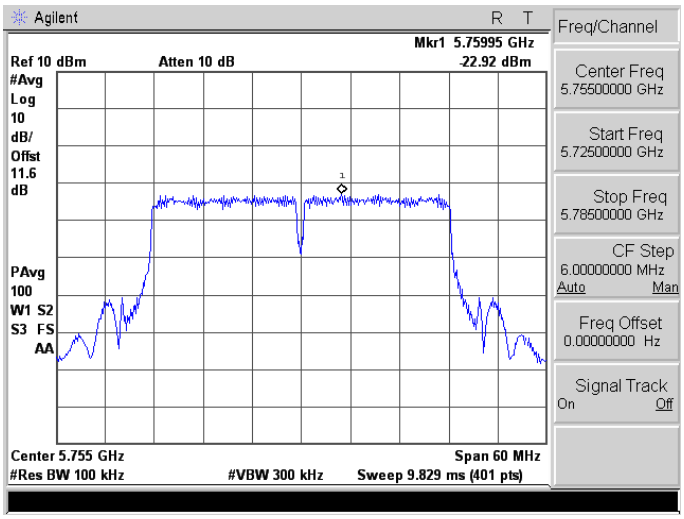
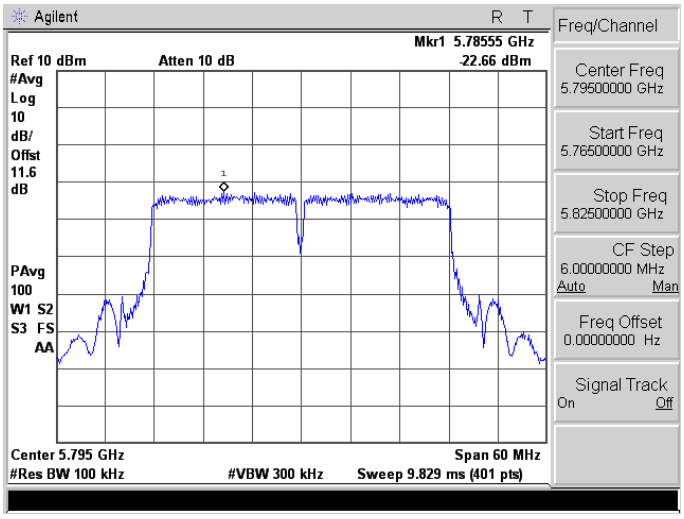
Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5500	
5560	
5700	

Mode 3: IEEE 802.11n 20MHz Link Mode_ANT-1	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5190	
5230	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5270	
5310	

Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5510	
5550	
5670	

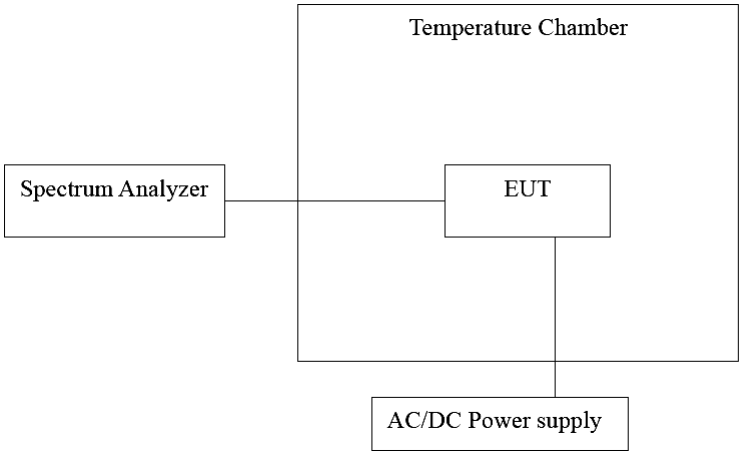
Mode 4: IEEE 802.11n 40MHz Link Mode_ANT-1	
5755	
5795	

10 Frequency Stability Measurement

10.1. Limit

The frequency tolerance of the carrier signal shall be maintained within the band of operation frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

10.2. Test Setup



10.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/27/2015	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/27/2015	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

10.4. Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

10.5. Test Result

Temperature Variations

Model Number	P0510					
Test Item	Frequency Stability					
Date of Test	08/28/2015					
Frequency	Temp. (^{o}C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5200.0835	83500	16.058	Pass
	10		5200.0198	19800	3.808	Pass
	20		5200.0075	7500	1.442	Pass
	30		5199.9921	-7900	-1.519	Pass
	40		5199.9244	-75600	-14.538	Pass
	45		5199.9352	-64800	-12.462	Pass
5280 MHz	0	120	5280.0423	42300	8.011	Pass
	10		5280.0244	24400	4.621	Pass
	20		5280.0031	3100	0.587	Pass
	30		5279.9063	-93700	-17.746	Pass
	40		5279.9791	-20900	-3.958	Pass
	45		5279.9004	-99600	-18.864	Pass
5560 MHz	0	120	5560.0709	70900	12.752	Pass
	10		5560.0731	73100	13.147	Pass
	20		5559.9994	-600	-0.108	Pass
	30		5559.9017	-98300	-17.680	Pass
	40		5559.9175	-82500	-14.838	Pass
	45		5559.9814	-18600	-3.345	Pass
5785 MHz	0	120	5785.0124	12400	2.143	Pass
	10		5785.0601	60100	10.389	Pass
	20		5785.0074	7400	1.279	Pass
	30		5784.9202	-79800	-13.794	Pass
	40		5784.9584	-41600	-7.191	Pass
	45		5784.9514	-48600	-8.401	Pass

Note: The manufacturer's frequency stability specification is better then 20ppm.

Voltage Variations

Model Number	P0510					
Test Item	Frequency Stability					
Date of Test	08/28/2015					
Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5200.0338	33800	6.500	Pass
		120.00	5200.0075	7500	1.442	Pass
		102.00	5199.9409	-59100	-11.365	Pass
5280 MHz	20	138.00	5280.0320	32000	6.061	Pass
		120.00	5280.0031	3100	0.587	Pass
		102.00	5279.9528	-47200	-8.939	Pass
5560 MHz	20	138.00	5560.0097	9700	1.745	Pass
		120.00	5559.9994	-600	-0.108	Pass
		102.00	5559.9448	-55200	-9.928	Pass
5785 MHz	20	138.00	5785.0693	69300	11.979	Pass
		120.00	5785.0074	7400	1.279	Pass
		102.00	5784.9899	-10100	-1.746	Pass

Note: The manufacturer's frequency stability specification is better then 20ppm.

11 Antenna Requirement

11.1. Limit

For intentional device, according to 15.203, 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.
And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Antenna Connector Construction

The antenna used in this product is FPC Antenna. And the maximum Gain of this antenna is 2 dBi.