

# Test Report

## FCC Part15 Subpart E

Product Name : Wireless LAN access Point  
Model No. : H3C WA2620X-AGNP,  
BJNGA-FB0001  
FCC ID : O9C-WA2620XAGNP

Applicant : Hewlett Packard Corporation  
Address : 350 Campus Drive, Marlborough, MA United States

Date of Receipt : 03/06/2011  
Test Date : 16/03/2011~ 14/04/2011  
Issued Date : 08/06/2011  
Report No. : 116S012R-RF-US-P09V01  
Report Version : V2.0

This report was based on Quietek report No: 113S025R

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report Certification

Issued Date : 08/06/2011

Report No. : 116S012R-RF-US-P09V01



Product Name : Wireless LAN access Point  
 Applicant : Hewlett Packard Corporation  
 Address : 350 Campus Drive, Marlborough, MA United States  
 Manufacturer : Hewlett Packard Corporation  
 Address : 350 Campus Drive, Marlborough, MA United States  
 Model No. : H3C WA2620X-AGNP, BJNGA-FB0001  
 FCC ID : O9C-WA2620XAGN  
 EUT Voltage : 48Vdc, 0.5A (POE Input)  
 Brand Name : H3C, HP  
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E: 2008  
 ANSI C63.4: 2009; ANSI C63.10: 2009  
 Test Result : Complied  
 Performed Location : Suzhou EMC Laboratory  
 No.99 Hongye Rd., Suzhou Industrial Park Loufeng  
 Hi-Tech Development Zone., Suzhou, China  
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
 FCC Registration Number: 800392

Documented By : Alice Ni  
 (Engineering ADM: Alice Ni)

Reviewed By : Jame Yuan  
 (Senior Engineer: Jame Yuan)

Approved By : Marlin Chen  
 (Engineering Supervisor: Marlin Chen)

## Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

<b>Taiwan R.O.C.</b>	<b>: BSMI, NCC, TAF</b>
<b>Germany</b>	<b>: TUV Rheinland</b>
<b>Norway</b>	<b>: Nemko, DNV</b>
<b>USA</b>	<b>: FCC, NVLAP</b>
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The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>  
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>  
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.  
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : [service@quietek.com](mailto:service@quietek.com)



### LinKou Testing Laboratory :

No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.  
 TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : [service@quietek.com](mailto:service@quietek.com)



### Suzhou (China) Testing Laboratory :

No. 99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou,China.  
 TEL : +86-512-6251-5088 / FAX : +86-512-6251-5098 E-Mail : [service@quietek.com](mailto:service@quietek.com)



**TABLE OF CONTENTS**

Description	Page
1. General Information .....	6
1.1. EUT Description .....	6
1.2. Mode of Operation .....	9
1.3. Tested System Details .....	10
1.4. Configuration of Tested System .....	11
1.5. EUT Exercise Software .....	12
2. Technical Test .....	13
2.1. Summary of Test Result .....	13
2.2. Test Environment .....	14
3. Conducted Emission .....	15
3.1. Test Equipment .....	15
3.2. Test Setup .....	15
3.3. Limit.....	16
3.4. Test Procedure .....	16
3.5. Uncertainty .....	16
3.6. Test Result .....	17
4. Radiated Emission .....	19
4.1. Test Equipment .....	19
4.2. Test Setup .....	20
4.3. Limit.....	21
4.4. Test Procedure .....	21
4.5. Uncertainty .....	21
4.6. Test Result .....	22
5. Operation Frequency Range of 20dB Bandwidth.....	28
5.1. Test Equipment .....	28
5.2. Test Setup .....	28
5.3. Limit.....	28
5.4. Test Procedure .....	28
5.5. Uncertainty .....	28
5.6. Test Result .....	29
6. Occupied Bandwidth .....	35
6.1. Test Equipment .....	35
6.2. Test Setup .....	35
6.3. Limit.....	35
6.4. Test Procedure .....	36
6.5. Uncertainty .....	36
6.6. Test Result .....	37

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7. Power Output.....	49
7.1. Test Equipment .....	49
7.2. Test Setup .....	49
7.3. Limit.....	49
7.4. Test Procedure .....	50
7.5. Uncertainty .....	50
7.6. Test Result .....	51
8. Peak Power Spectral Density.....	56
8.1. Test Equipment .....	56
8.2. Test Setup .....	56
8.3. Limit.....	56
8.4. Test Procedure .....	57
8.5. Uncertainty .....	57
8.6. Test Result .....	58
9. Peak Excursion.....	77
9.1. Test Equipment .....	77
9.2. Test Setup .....	77
9.3. Limit.....	77
9.4. Test Procedure .....	78
9.5. Uncertainty .....	78
9.6. Test Result .....	79
10. Radiated Emission Band Edge .....	91
10.1. Test Equipment .....	91
10.2. Test Setup .....	91
10.3. Limit.....	91
10.4. Test Procedure .....	93
10.5. Uncertainty .....	93
10.6. Test Result .....	94
11. Frequency Stability .....	158
11.1. Test Equipment .....	158
11.2. Test Setup .....	158
11.3. Limit.....	158
11.4. Test Procedure .....	159
11.5. Uncertainty .....	159
11.6. Test Result .....	160
12. Appendix 1 – Test Setup Photograph.....	161
13. Appendix 2 –EUT Photograph .....	164

1. General Information

1.1. EUT Description

Product Name	Wireless LAN access Point
Brand Name	H3C, HP
Model No.	H3C WA2620X-AGNP, BJNGA-FB0001
EUT Voltage	48Vdc, 0.5A (POE Input)
Frequency Range	<p><b>For 2.4GHz Band</b></p> <p>802.11b/g/n(20MHz): 2412~2462MHz</p> <p>802.11n(40MHz): 2422~2452MHz</p> <p><b>For 5.0GHz Band</b></p> <p>802.11a/n(20MHz):</p> <p>5260~5320MHz, 5745~5825MHz</p> <p>802.11n(40MHz):</p> <p>5270~5310MHz, 5755~5795MHz</p>
Channel Number	<p>For 2.4GHz Band</p> <p>802.11b/g/n(20MHz): 11</p> <p>802.11n(40MHz): 7</p> <p>For 5.0GHz Band</p> <p>802.11a/n(20MHz): 9</p> <p>802.11n(40MHz): 4</p>
Type of Modulation	<p>802.11b: DSSS</p> <p>802.11a/g/n: OFDM</p>
Data Rate	<p>802.11a/g: 6/9/12/18/24/36/48/54 Mbps</p> <p>802.11b: 1/2/5.5/11 Mbps</p> <p>802.11n: up to 300 Mbps</p>
Channel Control	Auto
Antenna Delivery	2*Tx + 3*Rx
Antenna Type	Panel Antenna
Peak Antenna Gain	Reference to Antenna List

Note: H3C WA2620X-AGNP is identical to HP BJNGA-FB0001 except model number and trade mark. For model H3C WA2620X-AGNP, trade mark is H3C, and BJNGA-FB0001 with trade mark HP.

Light Module Information		
Name	Manufacturer	Model No.
Optical Transceiver	Finisar Corporation	FTLF1318P2BTL
Optical Transceiver	Wuhan Telecommunication Devices Co.,Ltd.	RTXM191-404
Optical Transceiver	HP	JG294A

**For 2.4GHz Band**

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

**For 5.0GHz Band**

802.11a/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	151	5755 MHz	159	5795 MHz

**802.11a/b/g/n Antenna List**

Antenna	Manufacturer	Model No.	Peak Gain
Panel Antenna	H3C	ANT-2012P-M3	2.4GHz: 12dBi
Panel Antenna	H3C	ANT-5011P-M3	5GHz: 11dBi
Panel Antenna	HP	JD907A	2.4GHz: 6dBi; 5GHz:8dBi
Panel Antenna	HP	JG291A	2.4GHz: 12dBi
Panel Antenna	HP	JG292A	5GHz: 11dBi



**1.2. Mode of Operation**

Quietek 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: Transmit by 802.11a
Mode 2: Transmit by 802.11n (20MHz)
Mode 3: Transmit by 802.11n (40MHz)

Note:

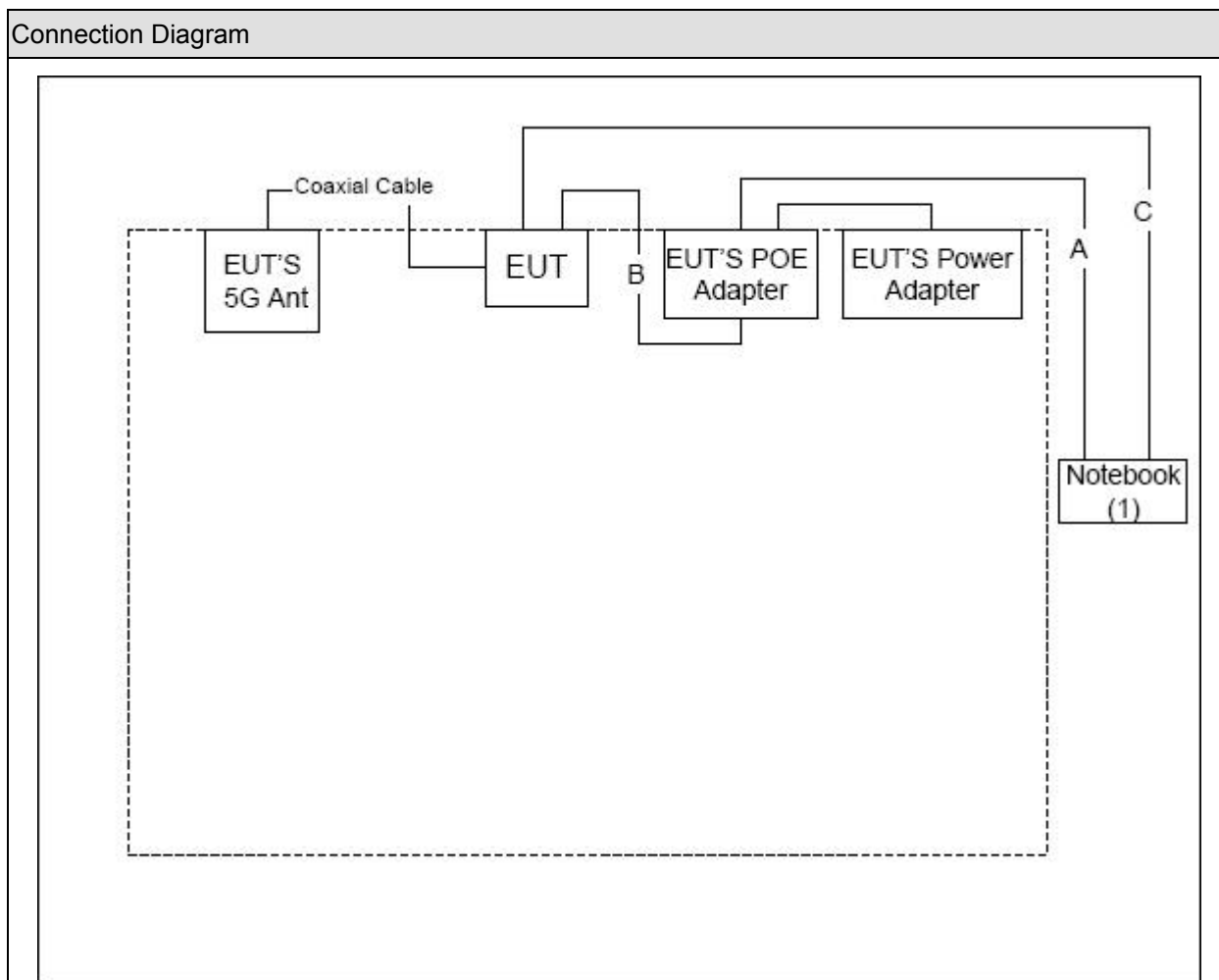
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 116S012R-RF-CE-P01V02.

**1.3. Tested System Details**

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	DELL	PP19L	JH097 A01	N/A

### 1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, >10m
B	LAN Cable	Non-Shielded, 1.5m
C	Control Cable	Non-Shielded, >10m

**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Execute the “ART” test program on the PC.
4	Setup the test channel and the test mode press ok to start the continue transmit.

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.209	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c)	Yes	No
26dB Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.407(a)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.407(a)	Yes	No
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.407(a)	Yes	No
Peak Excursion	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.407(a)(6)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.205, 15.407(b)	Yes	No
Frequency Stability	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.407(g)	Yes	No

**2.2. Test Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

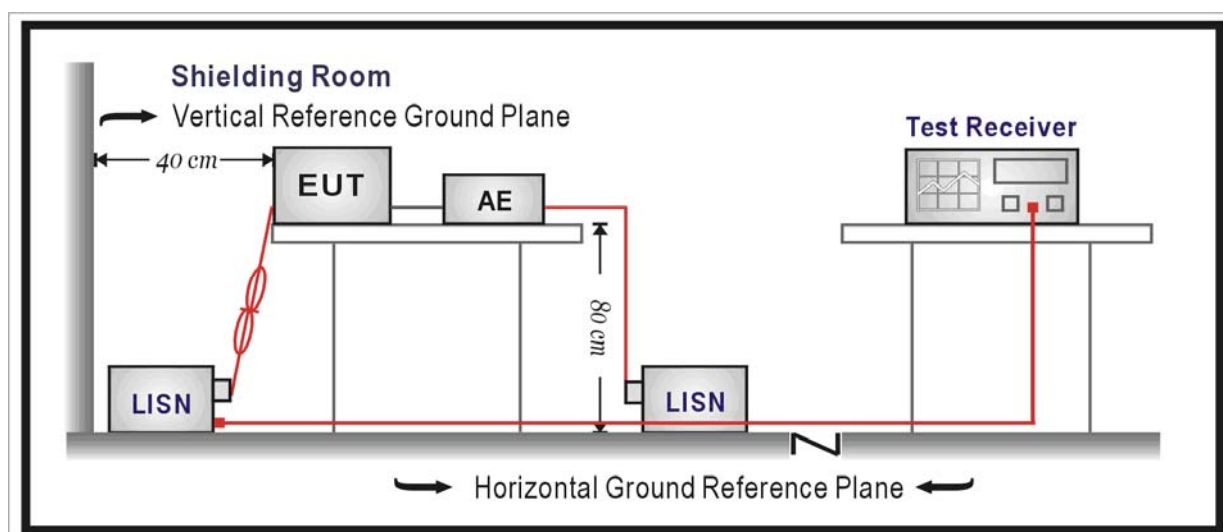
#### 3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2011.04.23
Two-Line V-Network	R&S	ENV216	100043	2011.06.18
Two-Line V-Network	R&S	ENV216	100044	2011.09.07
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2011.05.05
50ohm Termination	SHX	TF2	07081401	2011.09.27
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2012.01.14

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



**3.3. Limit**

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**3.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2009 & ANSI C63.10: 2009.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

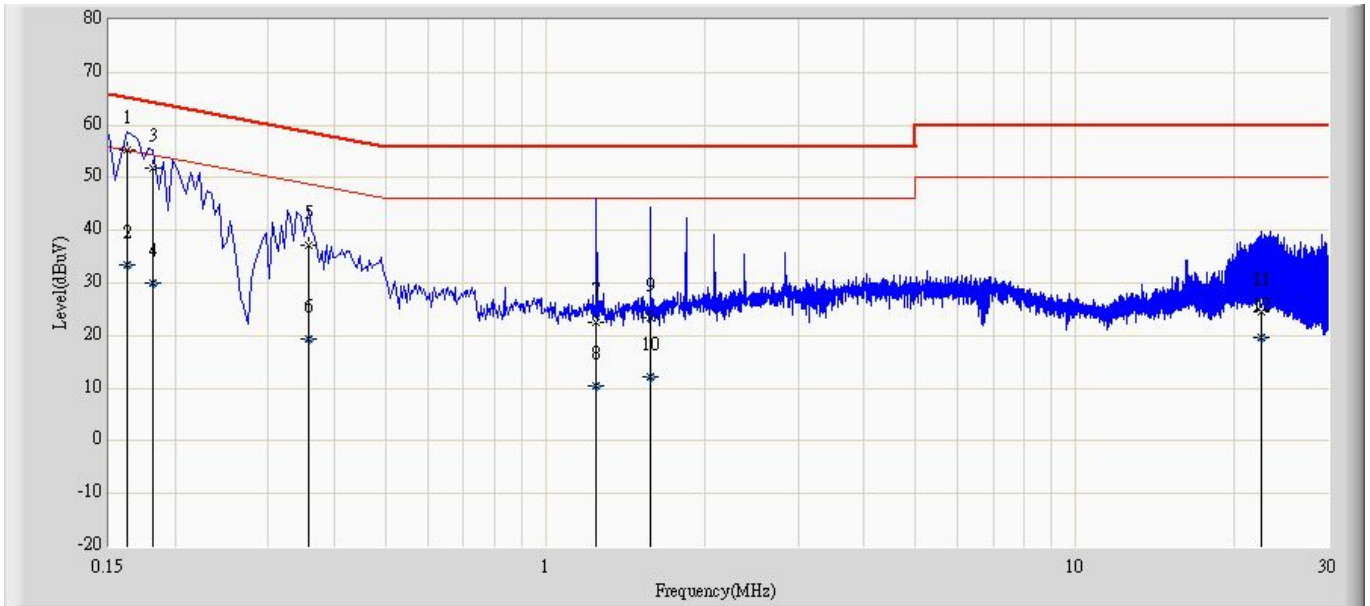
**3.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 2.02$  dB



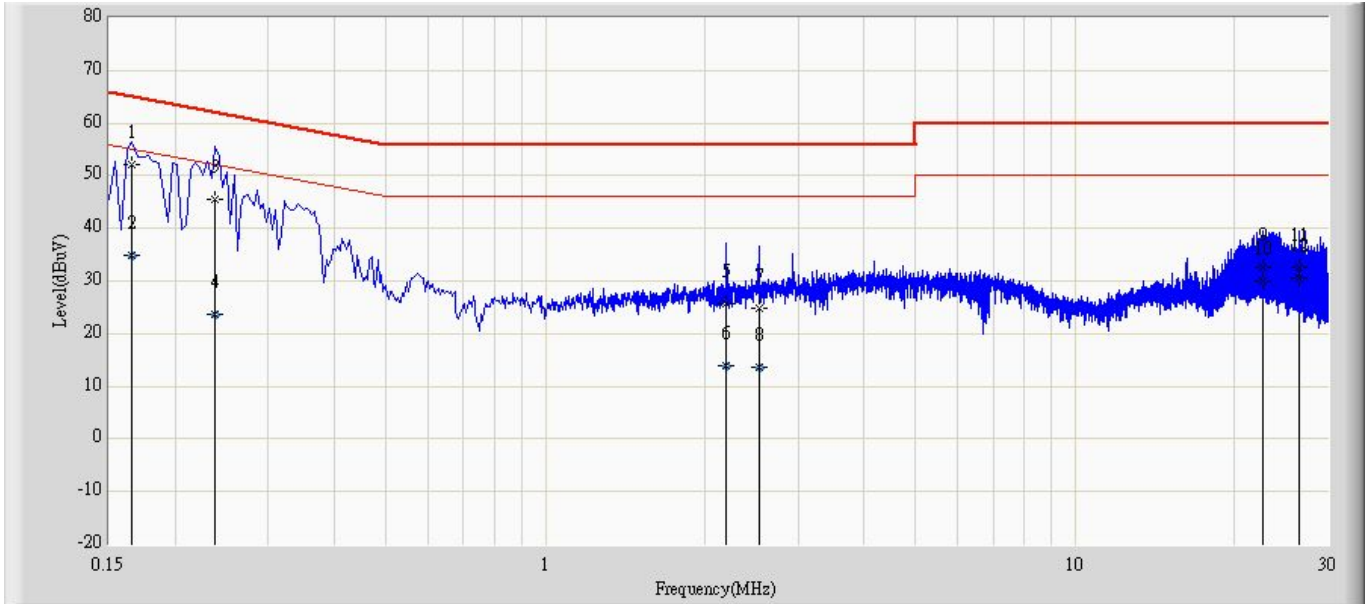
### 3.6. Test Result

Profile: 113S025R	Page No.: 3
Engineer: Jame	
Site: TR1	Time: 2011/03/24 - 17:19
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Line
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.162	55.289	45.700	-10.072	65.361	9.589	QP
2		0.162	33.395	23.806	-21.966	55.361	9.589	AV
3		0.182	51.822	42.186	-12.571	64.394	9.637	QP
4		0.182	30.019	20.382	-24.375	54.394	9.637	AV
5		0.358	37.082	27.402	-21.693	58.775	9.680	QP
6		0.358	19.486	9.806	-29.289	48.775	9.680	AV
7		1.246	22.610	12.922	-33.390	56.000	9.687	QP
8		1.246	10.415	0.728	-35.585	46.000	9.687	AV
9		1.578	23.264	13.556	-32.736	56.000	9.707	QP
10		1.578	12.120	2.412	-33.880	46.000	9.707	AV
11		22.450	24.584	14.261	-35.416	60.000	10.323	QP
12		22.450	19.740	9.417	-30.260	50.000	10.323	AV

Profile: 113S025R	Page No.: 4
Engineer: Jame	
Site: TR1	Time: 2011/03/24 - 17:25
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Neutral
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.166	51.991	42.260	-13.167	65.158	9.732	QP
2		0.166	34.909	25.177	-20.249	55.158	9.732	AV
3		0.238	45.428	35.777	-16.738	62.166	9.651	QP
4		0.238	23.585	13.934	-28.581	52.166	9.651	AV
5		2.198	25.758	16.026	-30.242	56.000	9.732	QP
6		2.198	13.772	4.040	-32.228	46.000	9.732	AV
7		2.526	24.919	15.173	-31.081	56.000	9.745	QP
8		2.526	13.546	3.800	-32.454	46.000	9.745	AV
9		22.630	32.516	22.141	-27.484	60.000	10.375	QP
10		22.630	30.035	19.660	-19.965	50.000	10.375	AV
11		26.550	32.510	21.976	-27.490	60.000	10.533	QP
12		26.550	30.674	20.141	-19.326	50.000	10.533	AV

**4. Radiated Emission**

**4.1. Test Equipment**

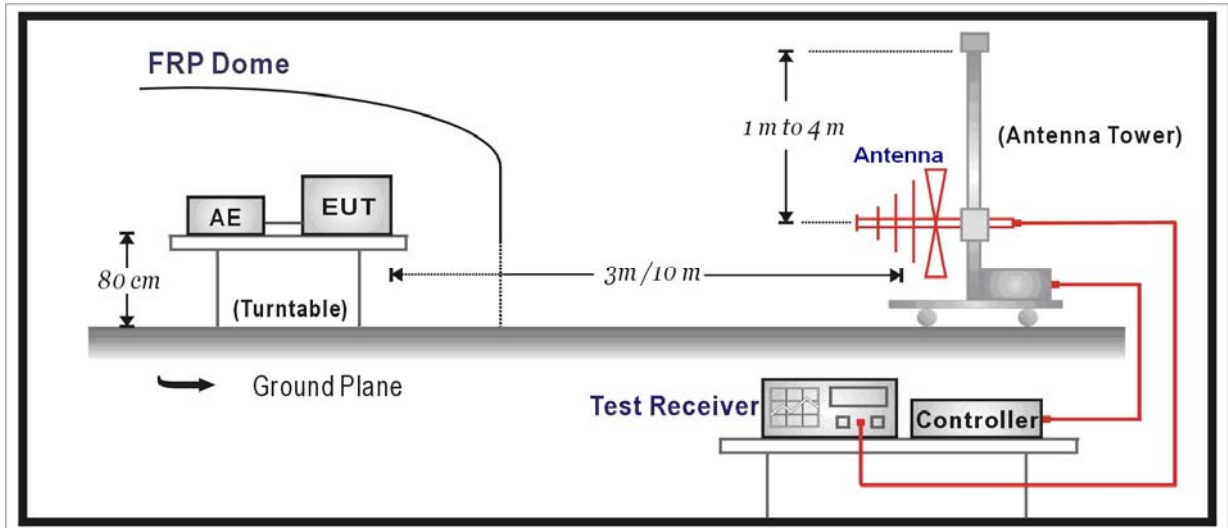
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2011.04.23
EMI Test Receiver	R&S	ESCI	100906	2012.01.15
Preamplifier	Quietek	AP-180C	CHM-0602013	2012.03.07
Preamplifier	Quietek	AP-040G	CHM-0906001	2011.05.05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011.10.18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2012.03.03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2012.03.03
Lowpass Filter	Wainwright	WLKS4500-9SS	SN2	2012.03.03
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2012.01.14

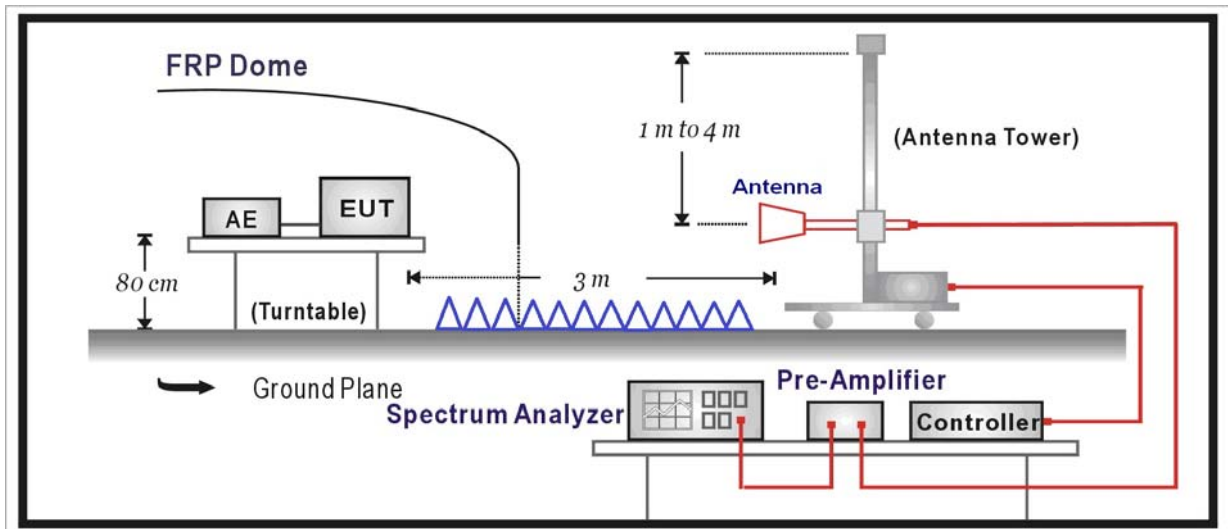
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

**4.2. Test Setup**

Below 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

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

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

**4.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2009 & ANSI C63.10: 2009.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60~10 degrees for H-plane and 90~10 degrees for E-plane.

**4.5. Uncertainty**

The measurement uncertainty above 1G is defined as ± 3.9 dB  
 below 1G is defined as ± 3.8 dB

4.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

802.11a

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 100	52	V	5260.1	65.4	37.2	102.6	Fundamental	/	PK
		H	312.1	4.2	17.9	22.1	46	-23.9	QP
		H	618.9	5.3	24.2	29.5	46	-16.5	QP
		H	3200.0	42.4	-1.9	40.5	54(Note1)	-13.5	PK
		H	10600.0	41.2	14.6	55.8	74	-18.2	PK
		H	10600.0	27.2	14.6	41.8	54	-12.2	AV
		H	15780.0	42.1	15.3	57.4	74	-16.6	PK
		H	15780.0	28.1	15.3	43.4	54	-10.6	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	60	V	5301.5	70.3	37.2	107.5	Fundamental	/	PK
		H	312.1	4.7	17.3	22.0	46	-24.0	QP
		H	618.9	5.8	24.7	30.5	46	-15.5	QP
		H	3200.0	42.0	-1.9	40.1	54(Note1)	-13.9	PK
		H	10600.0	40.8	14.6	55.4	74	-18.6	PK
		H	10600.0	26.8	14.6	41.4	54	-12.6	AV
		H	15900.0	42.2	15.9	58.1	74	-15.9	PK
		H	15900.0	28.2	15.9	44.1	54	-9.9	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	64	V	5320.0	68.8	37.9	106.7	Fundamental	/	PK
		H	312.1	4.6	17.2	21.8	46	-24.2	QP
		H	618.9	5.5	24.4	29.9	46	-16.1	QP
		H	3200.0	42.4	-1.9	40.5	54(Note1)	-13.5	PK
		H	10640.0	41.3	15.4	56.7	74	-17.3	PK
		H	10640.0	27.3	15.4	42.7	54	-11.3	AV
		H	15960.0	41.4	15.8	57.2	74	-16.8	PK
		H	15960.0	27.4	15.8	43.2	54	-10.8	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
		52	V	5260.7	61.7	37.1	98.8	Fundamental	/

Chain 001	60	H	312.1	4.3	17.8	22.1	46	-23.9	QP
		H	618.9	5.4	24.2	29.6	46	-16.4	QP
		H	3200.0	42.7	-1.9	40.8	54(Note1)	-13.2	PK
		H	10600.0	42.0	14.6	56.6	74	-17.4	PK
		H	10600.0	28.0	14.6	42.6	54	-11.4	AV
		H	15780.0	42.2	15.3	57.5	74	-16.5	PK
		H	15780.0	28.2	15.3	43.5	54	-10.5	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	60	V	5301.5	59.3	37.2	96.5	Fundamental	/	PK
		H	312.1	4.9	17.7	22.6	46	-23.4	QP
		H	618.9	5.5	24.7	30.2	46	-15.8	QP
		H	3200.0	42.4	-1.9	40.5	54(Note1)	-13.5	PK
		H	10600.0	41.4	14.6	56.0	74	-18.0	PK
		H	10600.0	27.4	14.6	42.0	54	-12.0	AV
		H	15900.0	42.8	15.9	58.7	74	-15.3	PK
		H	15900.0	28.8	15.9	44.7	54	-9.3	AV
	64	H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
		V	5321.6	60.5	37.9	98.4	Fundamental	/	PK
		H	312.1	4.6	17.6	22.2	46	-23.8	QP
		H	618.9	5.1	24.0	29.1	46	-16.9	QP
		H	3200.0	42.9	-1.9	41.0	54(Note1)	-13.0	PK
		H	10640.0	41.2	15.4	56.6	74	-17.4	PK
		H	10640.0	27.2	15.4	42.6	54	-11.4	AV
		H	15960.0	41.5	15.8	57.3	74	-16.7	PK
	64	H	15960.0	27.5	15.8	43.3	54	-10.7	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK

Note1: this limit (54dBuV/m) applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(20MHz)

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 100	52	V	2560.2	69.7	37.1	106.8	Fundamental	/	PK
		H	312.1	4.5	17.1	21.6	46	-24.4	QP
		H	618.9	5.9	24.4	30.3	46	-15.7	QP
		H	3200.0	42.6	-1.9	40.7	54(Note1)	-13.3	PK

		H	10600.0	41.4	14.6	56.0	74	-18.0	PK
		H	10600.0	27.4	14.6	42.0	54	-12.0	AV
		H	15780.0	42.3	15.3	57.6	74	-16.4	PK
		H	15780.0	28.3	15.3	43.6	54	-10.4	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	60	V	5301	68.1	37.1	105.2	Fundamental	/	PK
		H	312.1	4.4	17.6	22.0	46	-24.0	QP
		H	618.9	5.5	24.2	29.7	46	-16.3	QP
		H	3200.0	42.3	-1.9	40.4	54(Note1)	-13.6	PK
		H	10600.0	42.1	14.6	56.7	74	-17.3	PK
		H	10600.0	28.1	14.6	42.7	54	-11.3	AV
		H	15900.0	41.8	15.9	57.7	74	-16.3	PK
		H	15900.0	27.8	15.9	43.7	54	-10.3	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	64	V	5322.5	69.9	37.9	107.8	Fundamental	/	PK
		H	312.1	4.7	17.8	22.5	46	-23.5	QP
		H	618.9	5.3	24.2	29.5	46	-16.5	QP
		H	3200.0	42.3	-1.9	40.4	54(Note1)	-13.6	PK
		H	10640.0	40.8	15.4	56.2	74	-17.8	PK
		H	10640.0	26.8	15.4	42.2	54	-11.8	AV
		H	15960.0	42.3	15.8	58.1	74	-15.9	PK
		H	15960.0	28.3	15.8	44.1	54	-9.9	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
Chain 001	52	V	5260.5	58.7	37.3	96.0	Fundamental	/	PK
		H	312.1	4.5	17.4	21.9	46	-24.1	QP
		H	618.9	5.1	24.8	29.9	46	-16.1	QP
		H	3200.0	42.6	-1.9	40.7	54(Note1)	-13.3	PK
		H	10600.0	41.3	14.6	55.9	74	-18.1	PK
		H	10600.0	27.3	14.6	41.9	54	-12.1	AV
		H	15780.0	42.4	15.3	57.7	74	-16.3	PK
		H	15780.0	28.4	15.3	43.7	54	-10.3	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	60	V	5300.8	58.2	37.2	95.4	Fundamental	/	PK
		H	312.1	4.6	17.7	22.3	46	-23.7	QP
		H	618.9	5.3	24.5	29.8	46	-16.2	QP
		H	3200.0	42.5	-1.9	40.6	54(Note1)	-13.4	PK
		H	10600.0	41.0	14.6	55.6	74	-18.4	PK



		H	10600.0	27.0	14.6	41.6	54	-12.4	AV	
		H	15900.0	41.8	15.9	57.7	74	-16.3	PK	
		H	15900.0	27.8	15.9	43.7	54	-10.3	AV	
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK	
	64	V	5319.8	60.0	37.9	97.9	Fundamental	/	PK	
		H	312.1	4.4	17.6	22.0	46	-24.0	QP	
		H	618.9	5.2	24.3	29.5	46	-16.5	QP	
		H	3200.0	42.6	-1.9	40.7	54(Note1)	-13.3	PK	
		H	10640.0	41.3	15.4	56.7	74	-17.3	PK	
		H	10640.0	27.3	15.4	42.7	54	-11.3	AV	
		H	15960.0	42.5	15.8	58.3	74	-15.7	PK	
		H	15960.0	28.5	15.8	44.3	54	-9.7	AV	
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK	
		Chain 101	52	V	5260.2	63.0	37.2	100.2	Fundamental	/
	H			312.1	4.7	17.2	21.9	46	-24.1	QP
	H			618.9	5.9	24.0	29.9	46	-16.1	QP
	H			3200.0	42.8	-1.9	40.9	54(Note1)	-13.1	PK
	H			10600.0	41.8	14.6	56.4	74	-17.6	PK
	H			10600.0	27.8	14.6	42.4	54	-11.6	AV
H	15780.0			42.6	15.3	57.9	74	-16.1	PK	
H	15780.0			28.6	15.3	43.9	54	-10.1	AV	
H	24000.0			59.1	-8.9	50.2	54(Note1)	-3.8	PK	
60	V		5300.2	68.1	37.8	105.9	Fundamental	/	PK	
	H		312.1	4.5	17.5	22.0	46	-24.0	QP	
	H		618.9	5.2	24.8	30.0	46	-16.0	QP	
	H		3200.0	42.5	-1.9	40.6	54(Note1)	-13.4	PK	
	H		10600.0	41.5	14.6	56.1	74	-17.9	PK	
	H		10600.0	27.5	14.6	42.1	54	-11.9	AV	
	H		15900.0	42.4	15.9	58.3	74	-15.7	PK	
	H		15900.0	28.4	15.9	44.3	54	-9.7	AV	
	H		24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK	
64	V		5314.5	68.6	37.9	106.5	Fundamental	/	PK	
	H	312.1	4.1	17.4	21.5	46	-24.5	QP		
	H	618.9	5.2	24.5	29.7	46	-16.3	QP		
	H	3200.0	42.4	-1.9	40.5	54(Note1)	-13.5	PK		
	H	10640.0	41.2	15.4	56.6	74	-17.4	PK		
	H	10640.0	27.2	15.4	42.6	54	-11.4	AV		

	H	15960.0	42.3	15.8	58.1	74	-15.9	PK
	H	15960.0	28.3	15.8	44.1	54	-9.9	AV
	H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK

Note1: this limit (54dBuV/m) applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(40MHz)

Chain	CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Chain 100	54	V	5270.2	61.7	37.5	99.2	Fundamental	/	PK
		H	312.1	4.5	17.6	22.1	46	-23.9	QP
		H	618.9	5.4	24.7	30.1	46	-15.9	QP
		H	3200.0	43.1	-1.9	41.2	54(Note1)	-12.8	PK
		H	10600.0	40.7	14.6	55.3	74	-18.7	PK
		H	10600.0	26.7	14.6	41.3	54	-12.7	AV
		H	15810.0	41.4	15.6	57.0	74	-17.0	PK
		H	15810.0	27.4	15.6	43.0	54	-11.0	AV
	H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK	
	62	V	5314.4	66.4	37.9	104.3	Fundamental	/	PK
		H	312.1	4.7	17.5	22.2	46	-23.8	QP
		H	618.9	5.4	24.6	30.0	46	-16.0	QP
		H	3200.0	42.6	-1.9	40.7	54(Note1)	-13.3	PK
		H	10620.0	40.8	15.0	55.8	74	-18.2	PK
		H	10620.0	26.8	15.0	41.8	54	-12.2	AV
		H	15930.0	41.7	15.8	57.5	74	-16.5	PK
H		15930.0	27.7	15.8	43.5	54	-10.5	AV	
Chain 001	54	V	5270.2	59.6	37.6	97.2	Fundamental	/	PK
		H	312.1	4.6	17.8	22.4	46	-23.6	QP
		H	618.9	5.4	24.7	30.1	46	-15.9	QP
		H	3200.0	42.3	-1.9	40.4	54(Note1)	-13.6	PK
		H	10600.0	40.7	14.6	55.3	74	-18.7	PK
		H	10600.0	26.7	14.6	41.3	54	-12.7	AV
		H	15810.0	41.9	15.6	57.5	74	-16.5	PK
		H	15810.0	27.9	15.6	43.5	54	-10.5	AV

		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	62	V	5296.5	57.2	38.0	95.2	Fundamental	/	PK
		H	312.1	4.6	17.7	22.3	46	-23.7	QP
		H	618.9	5.3	24.7	30.0	46	-16.0	QP
		H	3200.0	42.3	-1.9	40.4	54(Note1)	-13.6	PK
		H	10620.0	41.3	15.0	56.3	74	-17.7	PK
		H	10620.0	27.3	15.0	42.3	54	-11.7	AV
		H	15930.0	41.9	15.8	57.7	74	-16.3	PK
		H	15930.0	27.9	15.8	43.7	54	-10.3	AV
		H	24000.0	59.1	-8.9	50.2	54(Note1)	-3.8	PK
Chain 101	54	V	5270.5	63.4	37.5	100.9	Fundamental	/	PK
		H	312.1	4.2	17.7	21.9	46	-24.1	QP
		H	618.9	5.2	24.6	29.8	46	-16.2	QP
		H	3200.0	42.9	-1.9	41.0	54(Note1)	-13.0	PK
		H	10600.0	41.5	14.6	56.1	74	-17.9	PK
		H	10600.0	27.5	14.6	42.1	54	-11.9	AV
		H	15810.0	42.1	15.6	57.7	74	-16.3	PK
		H	15810.0	28.1	15.6	43.7	54	-10.3	AV
		H	24000	59.1	-8.9	50.2	54(Note1)	-3.8	PK
	62	V	5316.2	65.2	37.9	103.1	Fundamental	/	PK
		H	312.1	4.6	17.8	22.4	46	-23.6	QP
		H	618.9	5.5	24.6	30.1	46	-15.9	QP
		H	3200.0	43.3	-1.9	41.4	54(Note1)	-12.6	PK
		H	10620.0	42.4	15.0	57.4	74	-16.6	PK
		H	10620.0	28.4	15.0	43.4	54	-10.6	AV
		H	15930.0	42.0	15.8	57.8	74	-16.2	PK
		H	15930.0	28.0	15.8	43.8	54	-10.2	AV
		H	24000	59.1	-8.9	50.2	54(Note1)	-3.8	PK

Note1: this limit (54dBuV/m) applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

## 5. Operation Frequency Range of 20dB Bandwidth

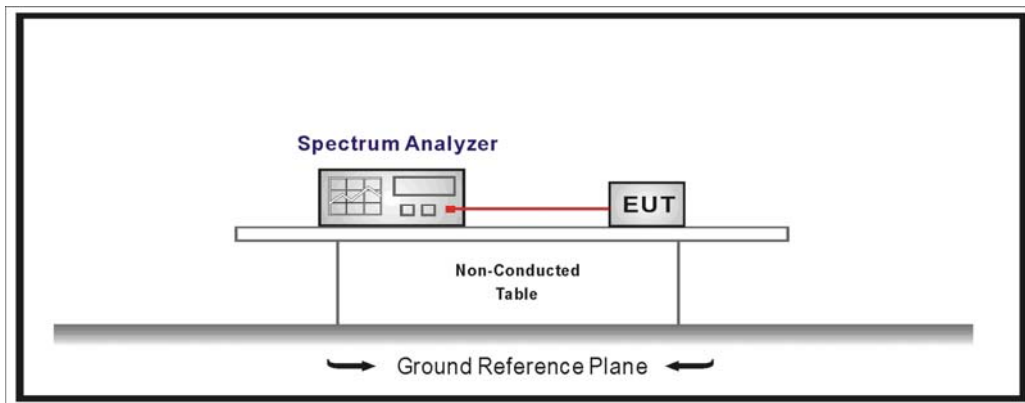
### 5.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth /TR8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



### 5.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band. FCC Part15.215(c).

### 5.4. Test Procedure

The EUT was tested according to UNII test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

Set RBW = 100 kHz, Span greater than RBW.

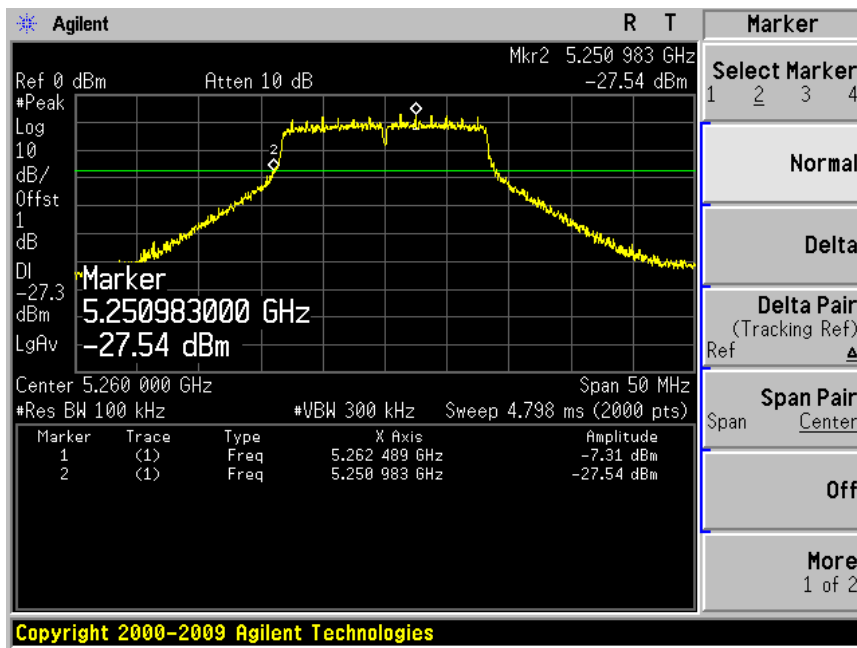
### 5.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1$  kHz

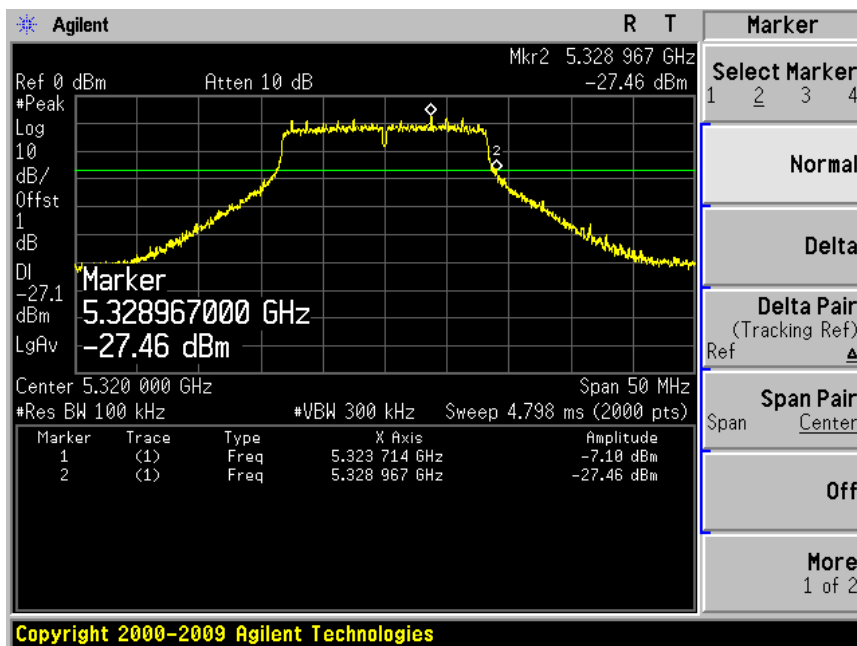
5.6. Test Result

Product	:	Wireless LAN access Point
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 100)

Channel 52 (5260MHz)

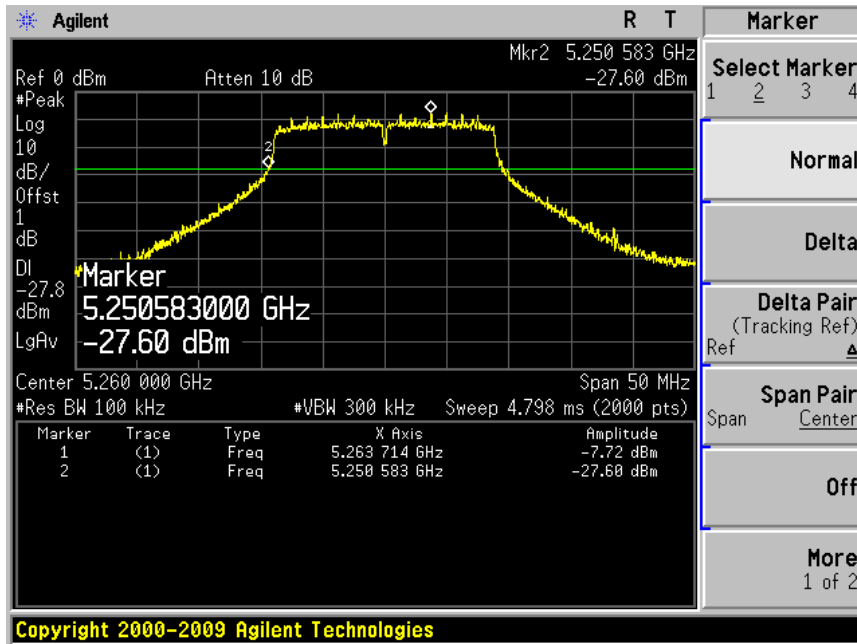


Channel 64 (5320MHz)

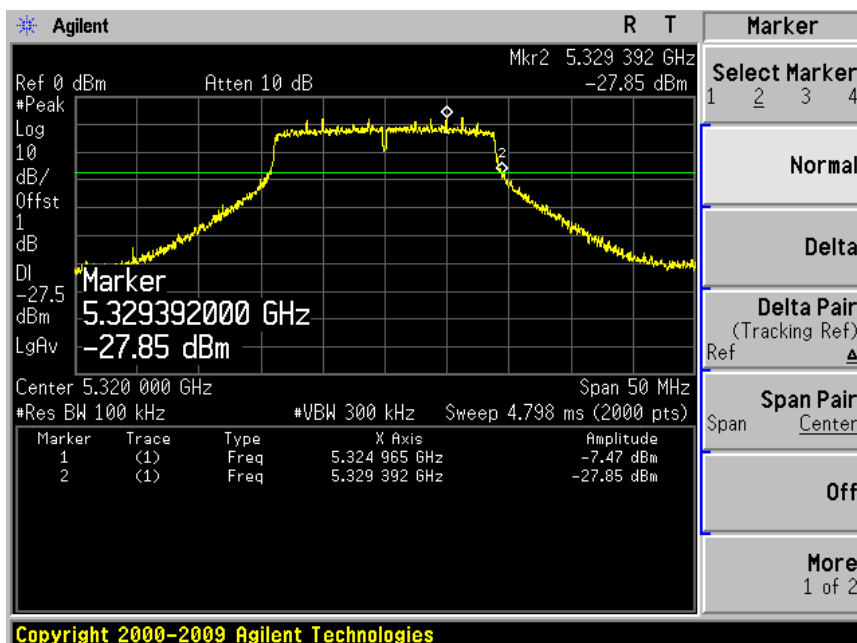


Product	: Wireless LAN access Point
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n (20MHz) (Chain 100)

### Channel 52 (5260MHz)

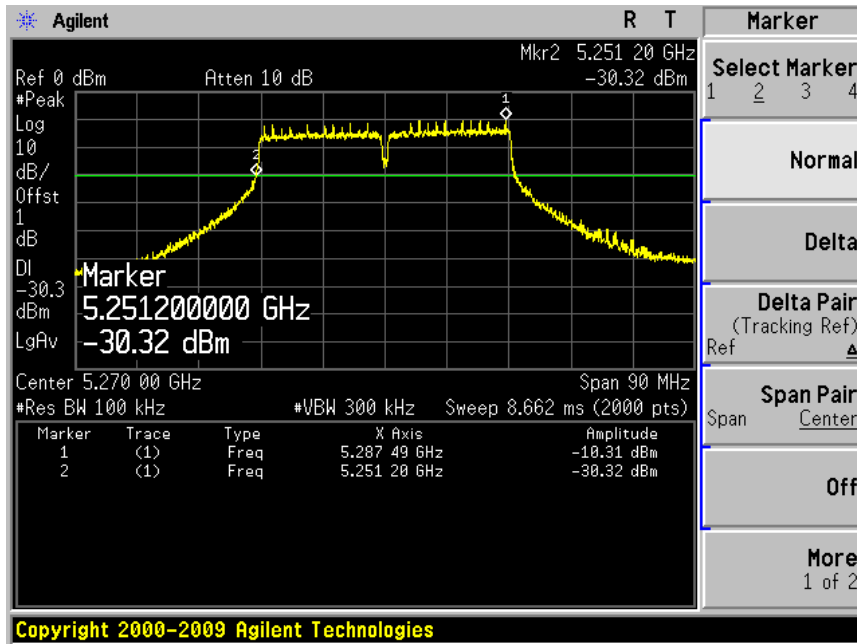


### Channel 64 (5320MHz)

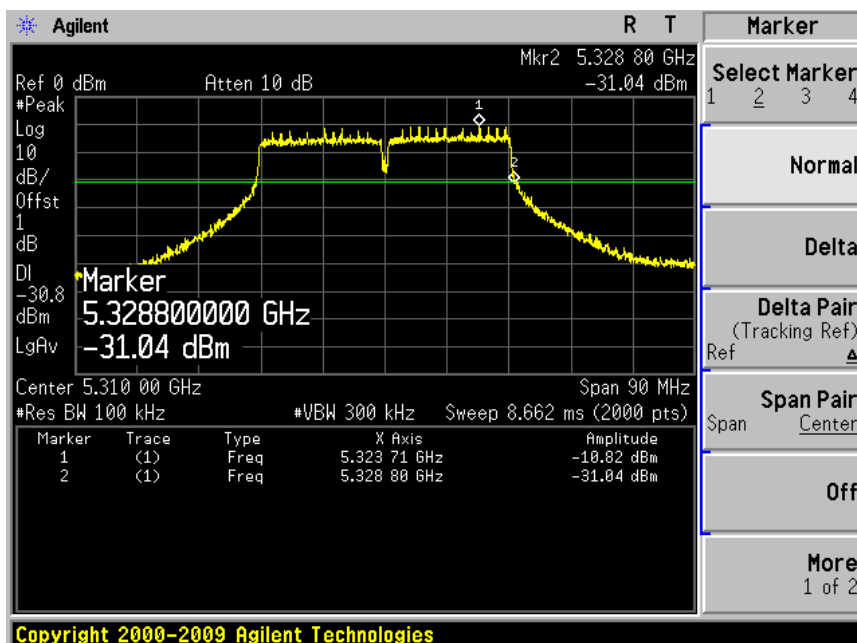


Product	: Wireless LAN access Point
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n (40MHz) (Chain 100)

### Channel 54 (5270MHz)

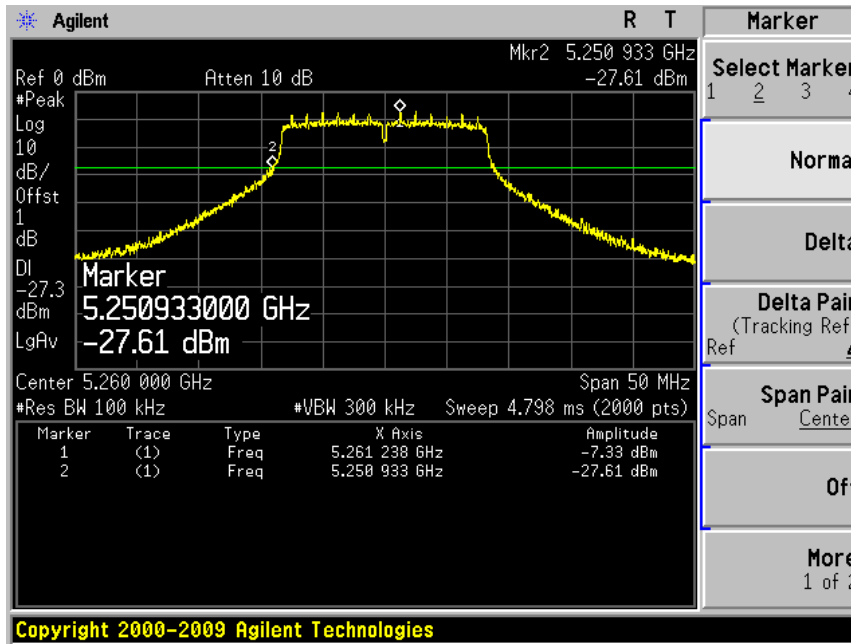


### Channel 62 (5310MHz)

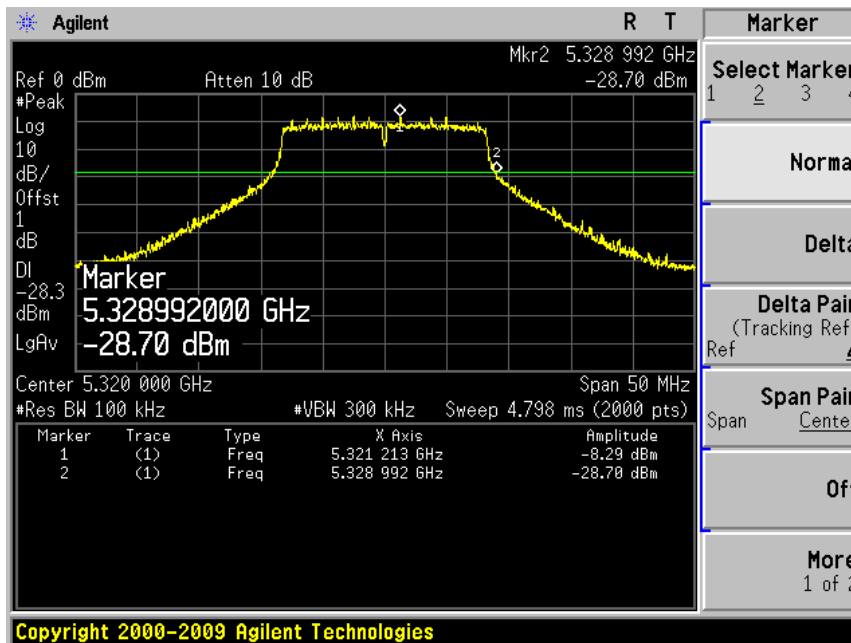


Product	: Wireless LAN access Point
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11a (Chain 001)

### Channel 52 (5260MHz)



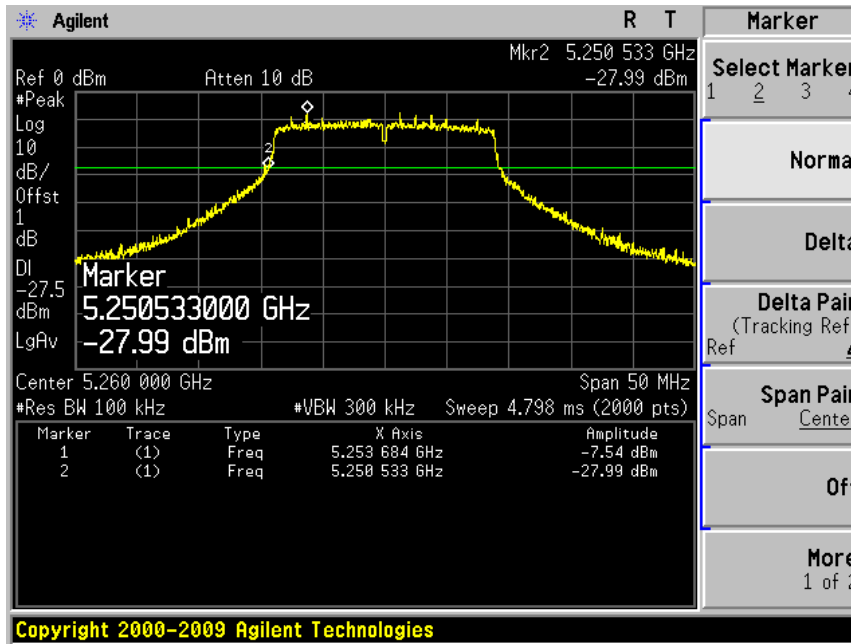
### Channel 64 (5320MHz)



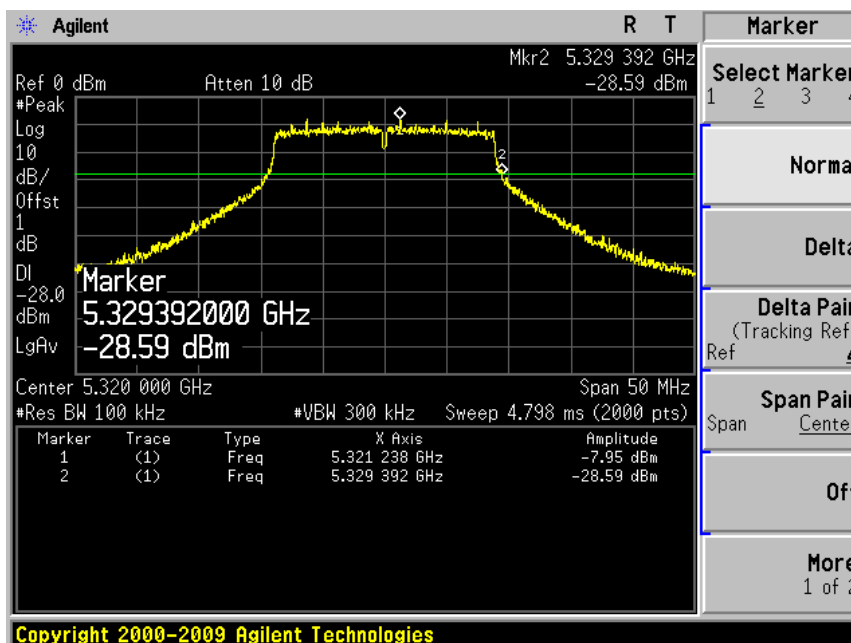


Product	: Wireless LAN access Point
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n (20MHz) (Chain 001)

### Channel 52 (5260MHz)

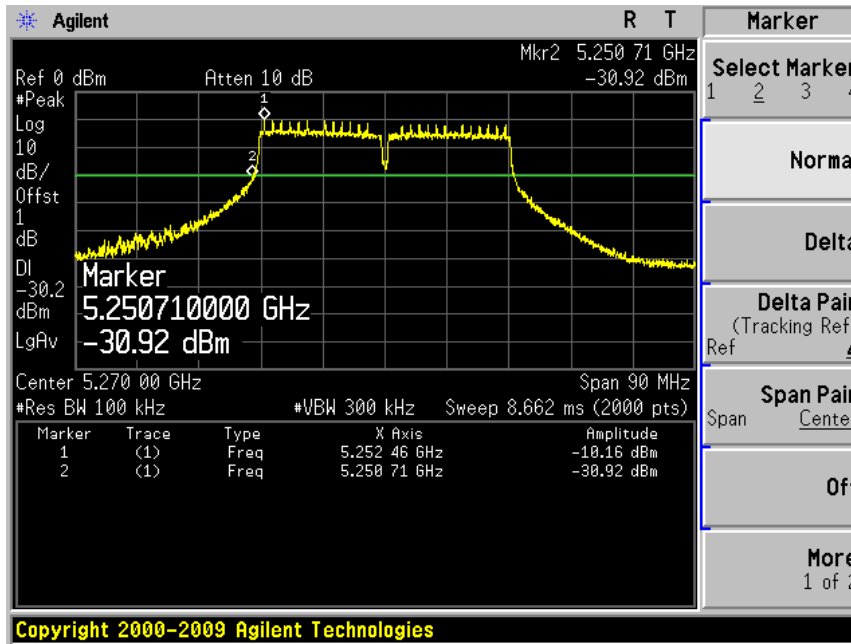


### Channel 64 (5320MHz)

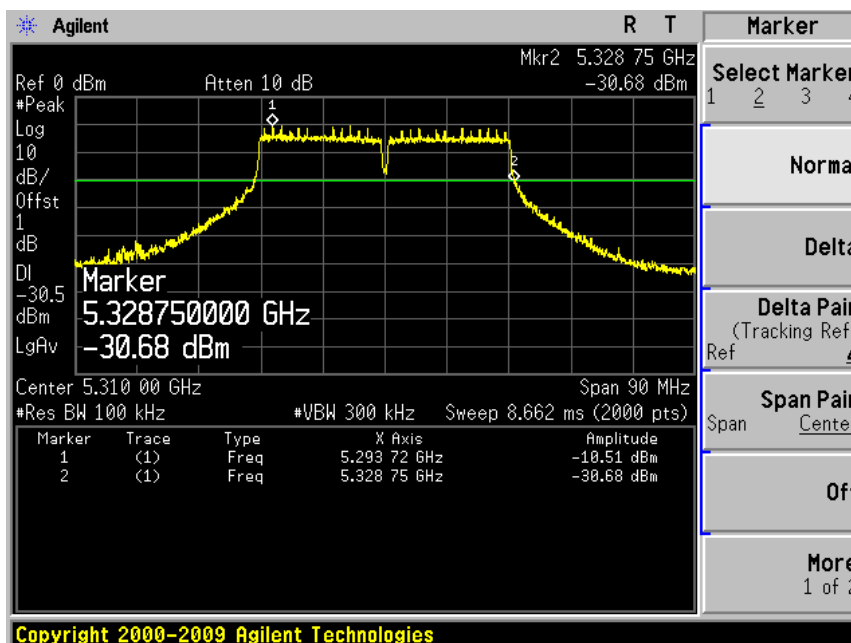


Product	: Wireless LAN access Point
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n (40MHz) (Chain 001)

### Channel 54 (5270MHz)



### Channel 62 (5310MHz)



## 6. Occupied Bandwidth

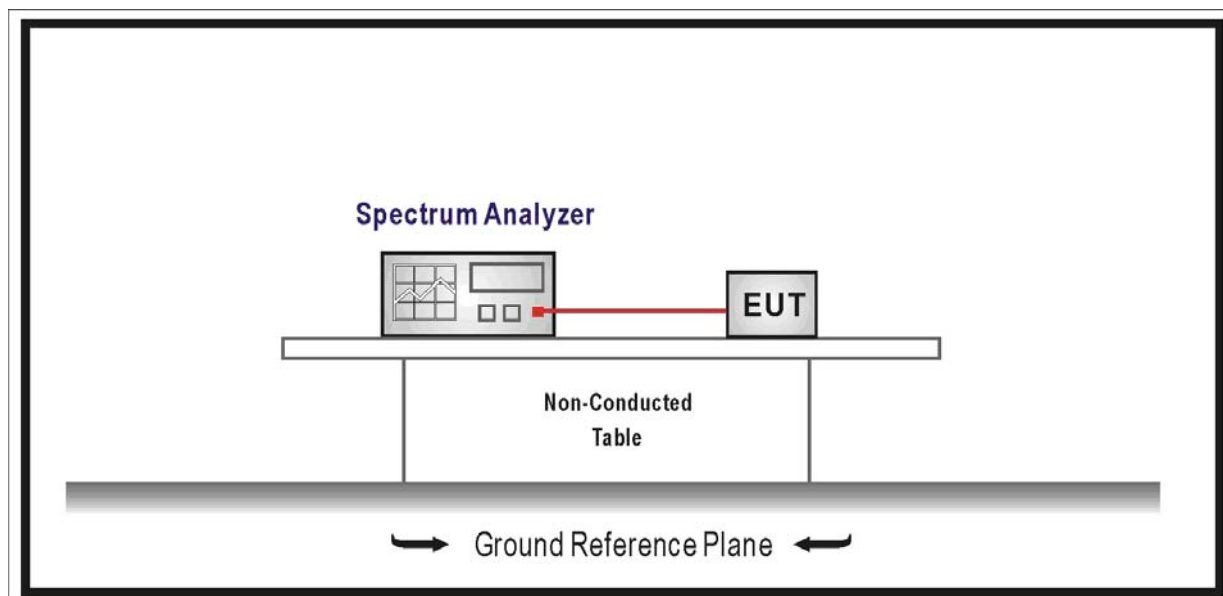
### 6.1. Test Equipment

Occupied Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 6.2. Test Setup



### 6.3. Limit

N/A

#### 6.4. Test Procedure

The EUT was tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

##### Emission bandwidth "B" MHz.

- Use a RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW
- Use a peak detector.
- Do not use the Max Hold function. Rather, use the view button to capture the emission.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 6.5. Uncertainty

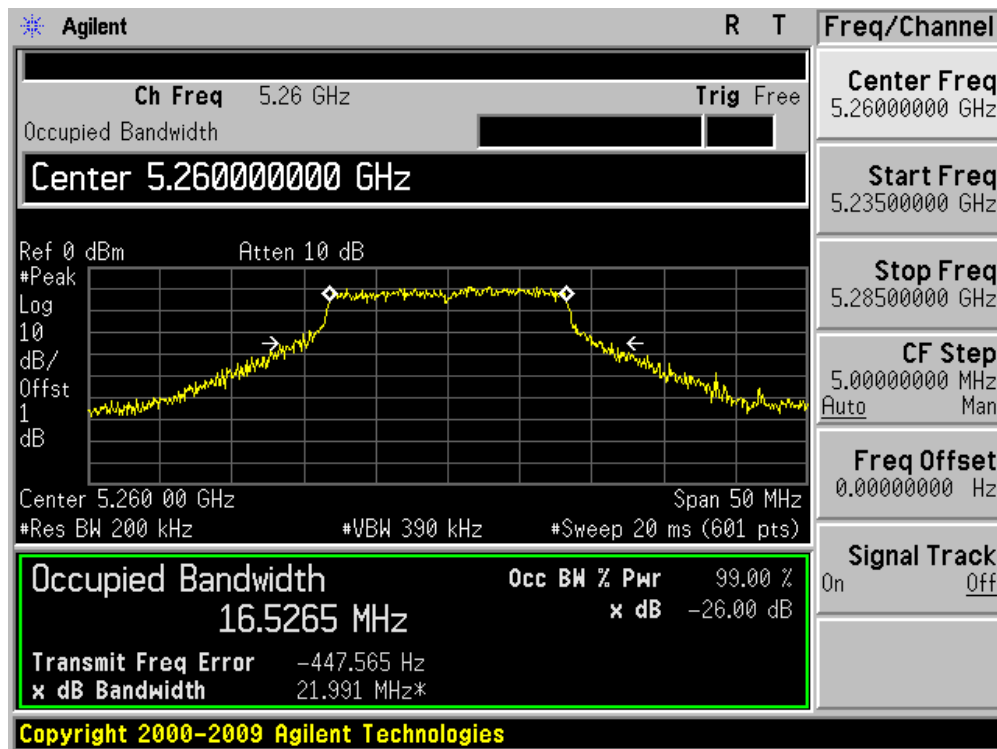
The measurement uncertainty is defined as  $\pm 1$  kHz

6.6. Test Result

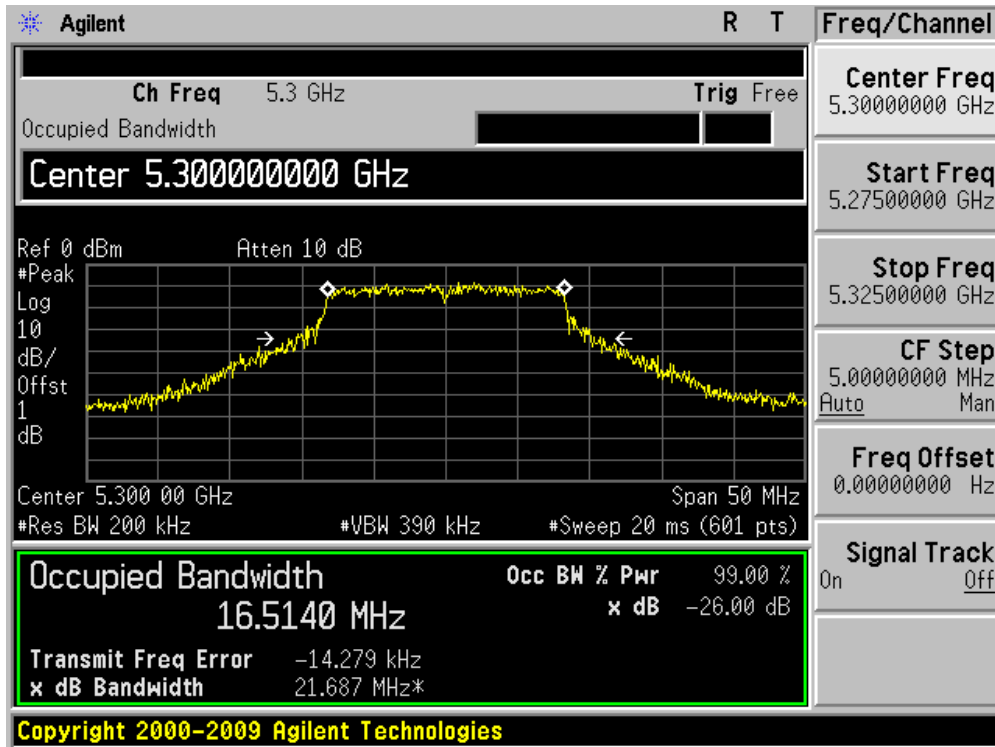
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 100)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	21.991	16.527
60	5300	21.687	16.514
64	5320	20.929	16.459

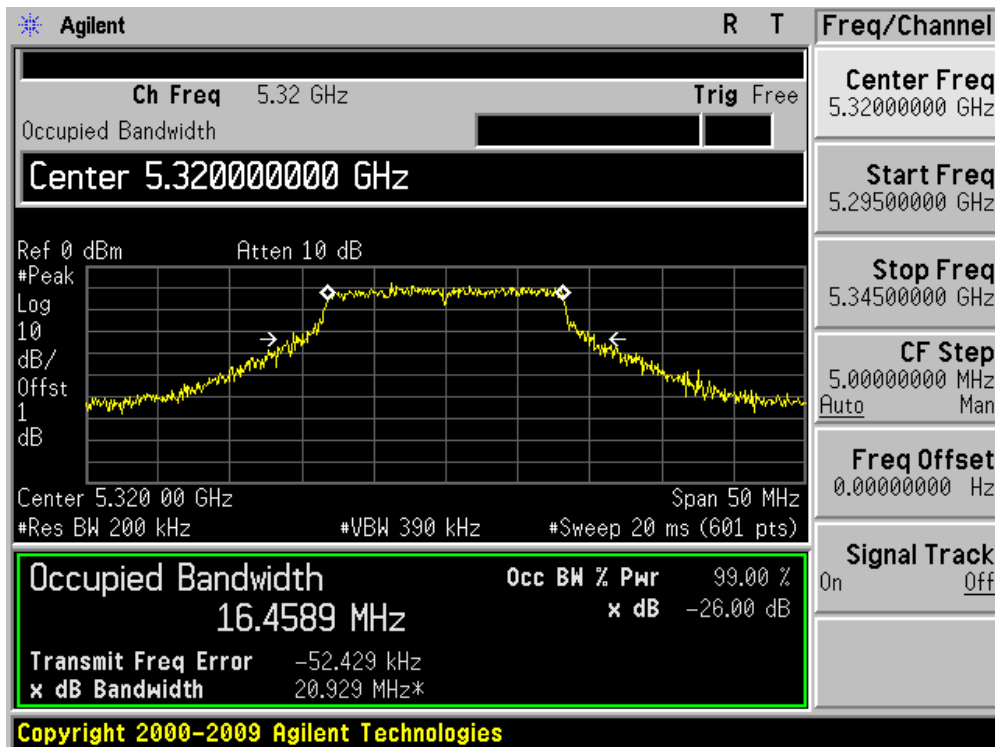
Channel 48 (5260MHz)



Channel 60 (5300MHz)



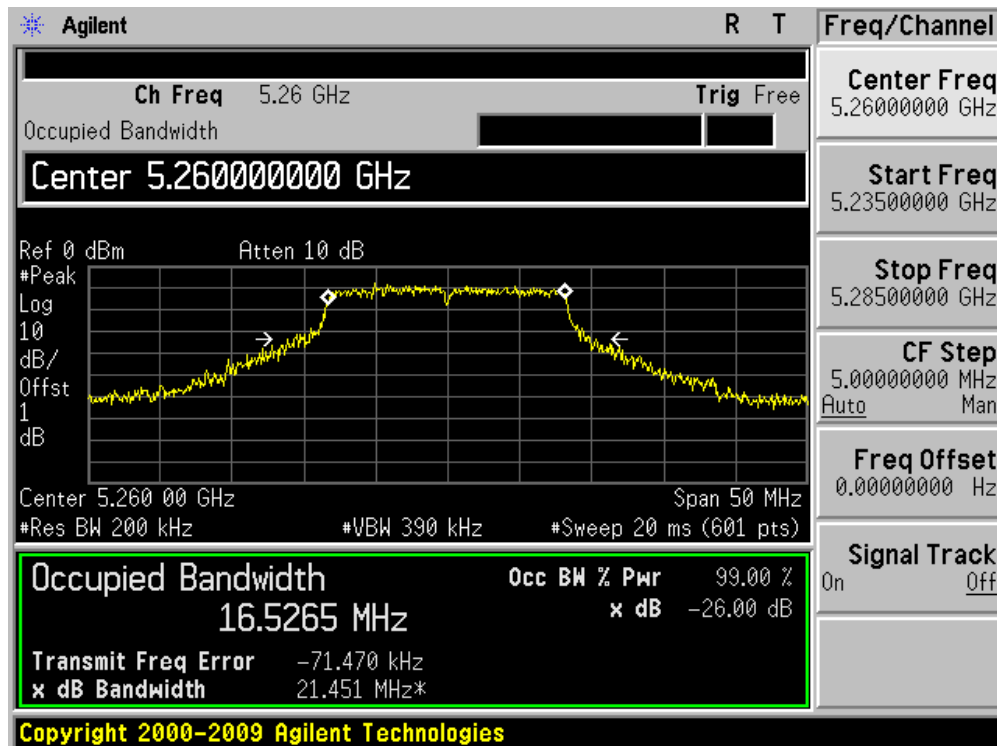
Channel 64 (5320MHz)



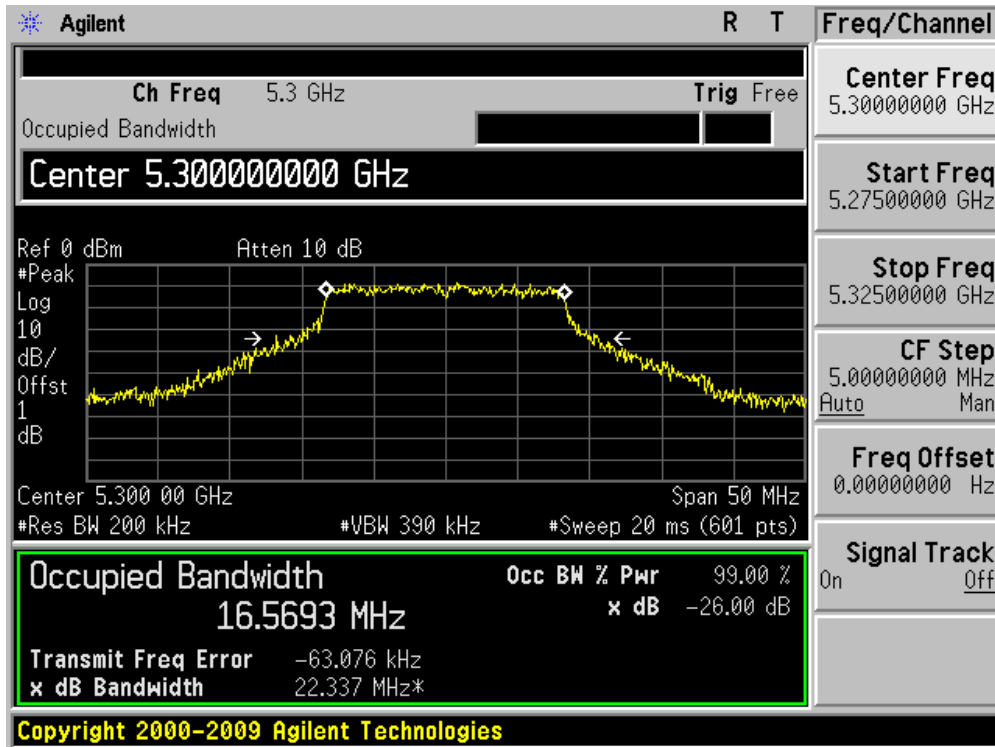
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 001)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	21.451	16.527
60	5300	22.337	16.569
64	5320	21.250	16.581

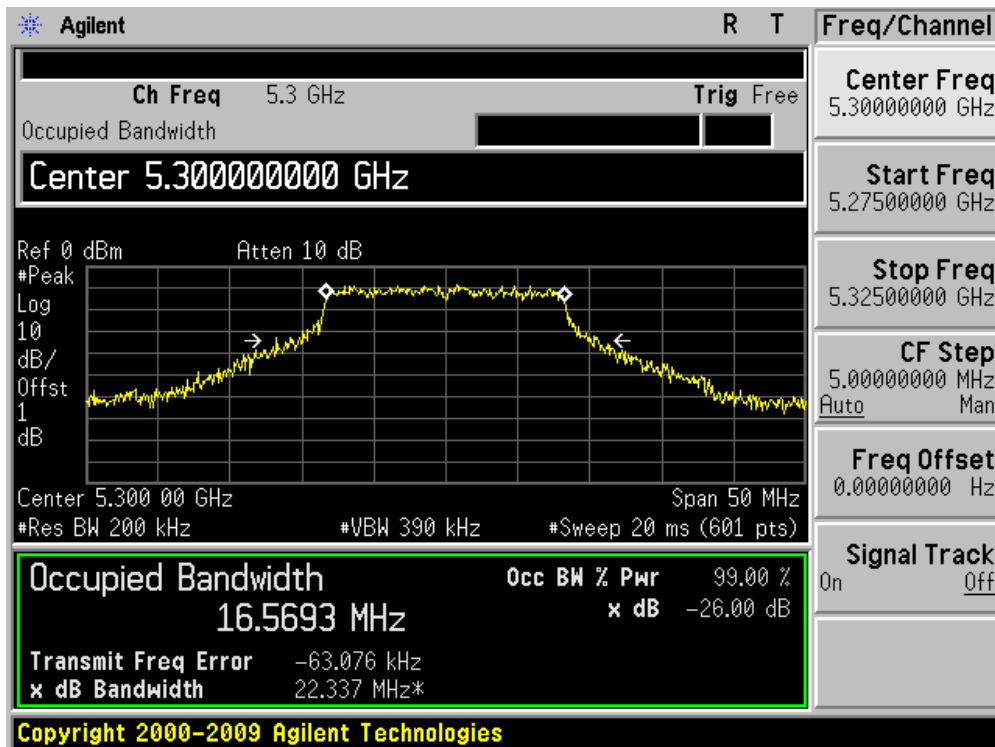
### Channel 48 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

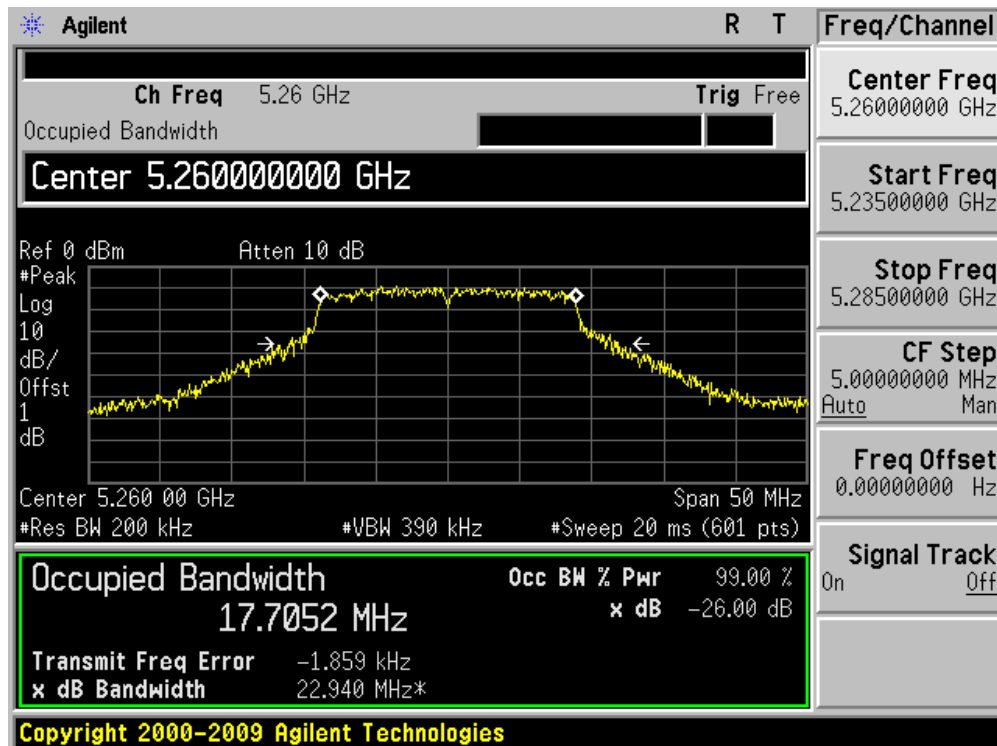




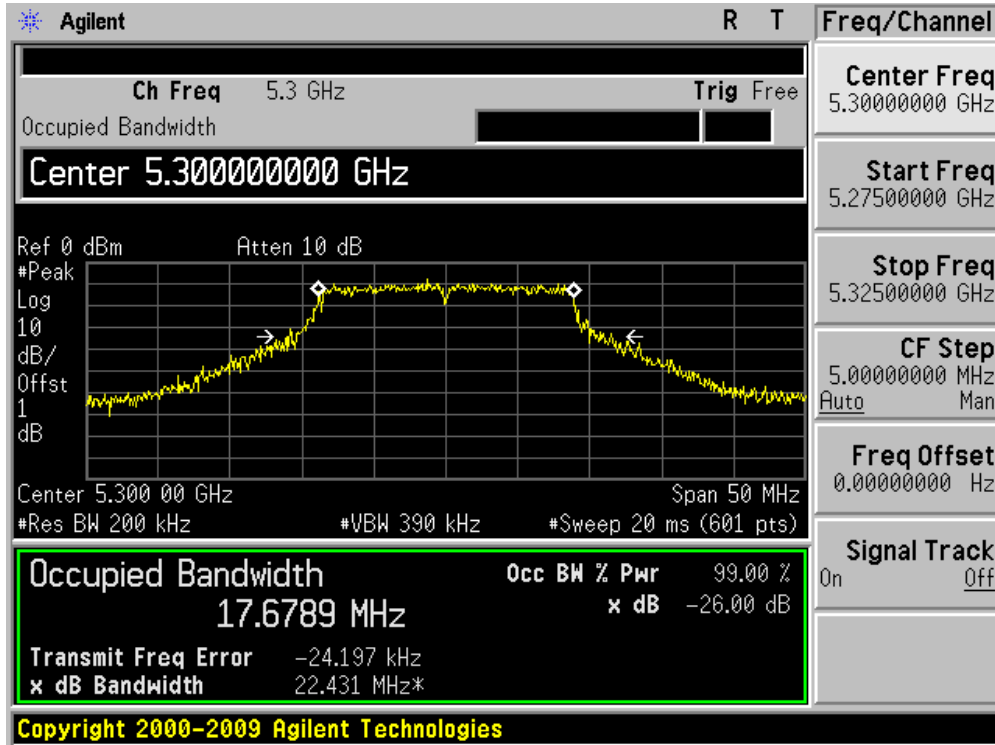
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) (Chain 100)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	22.940	17.705
60	5300	22.431	17.679
64	5320	20.786	17.763

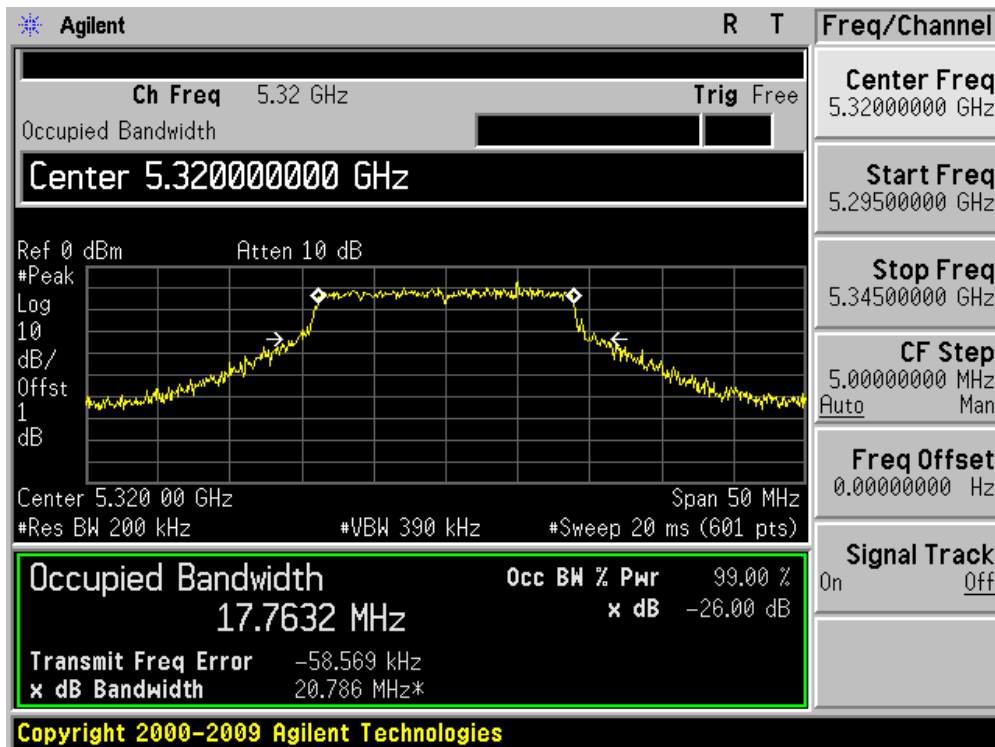
### Channel 48 (5260MHz)



Channel 60 (5300MHz)



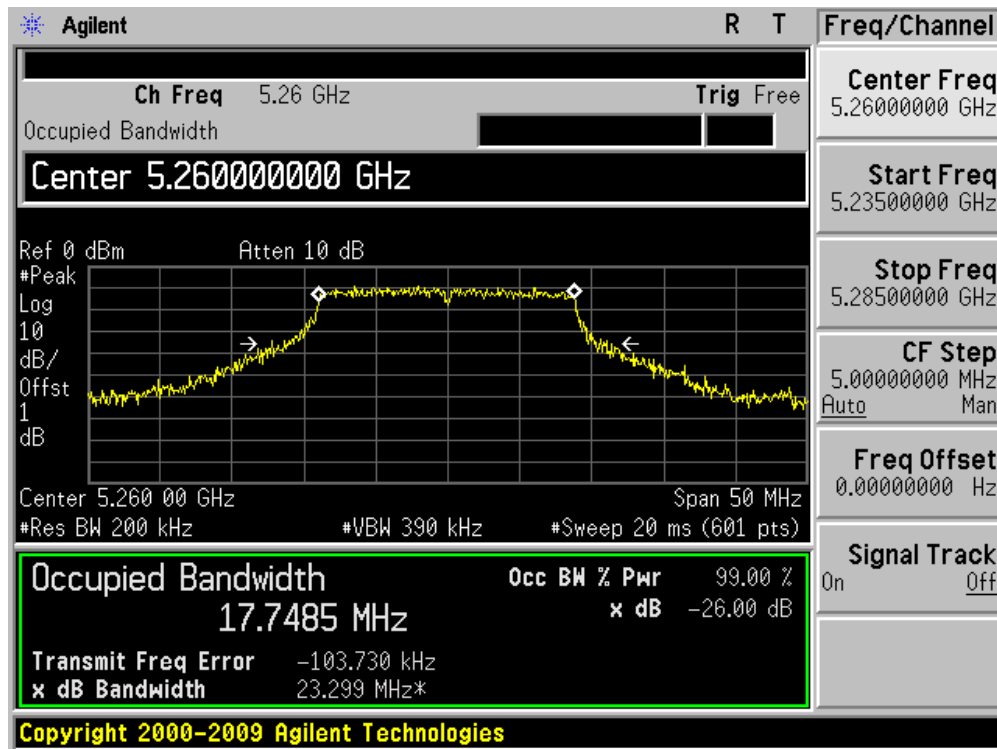
Channel 64 (5320MHz)



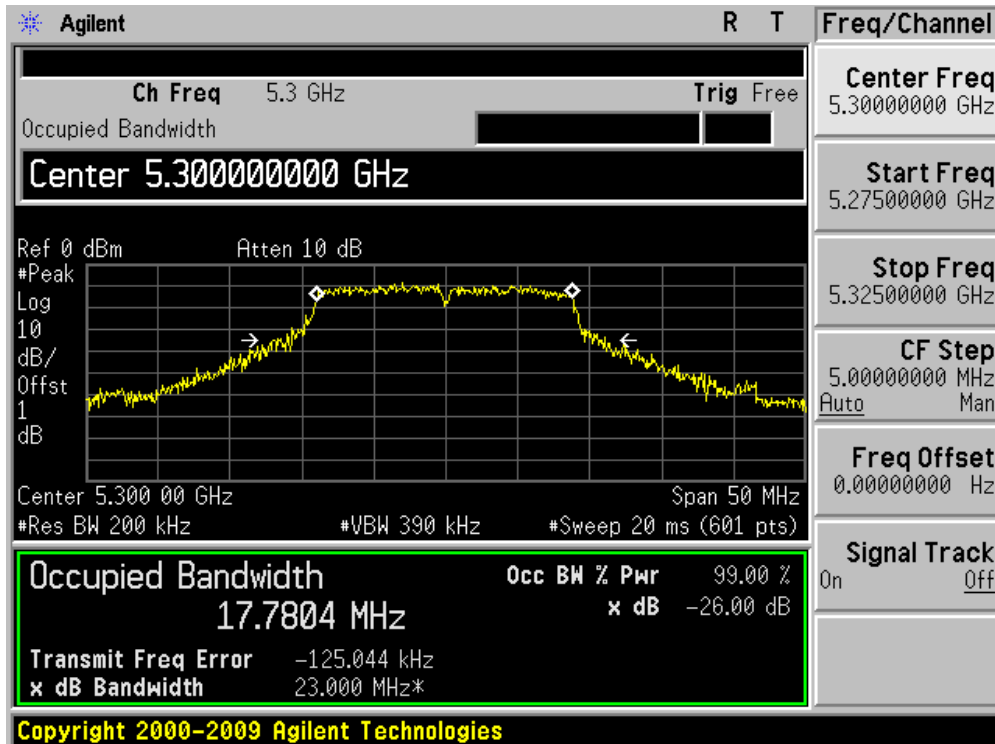
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) (Chain 001)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
52	5260	23.299	17.749
60	5300	23.000	17.780
64	5320	22.358	17.758

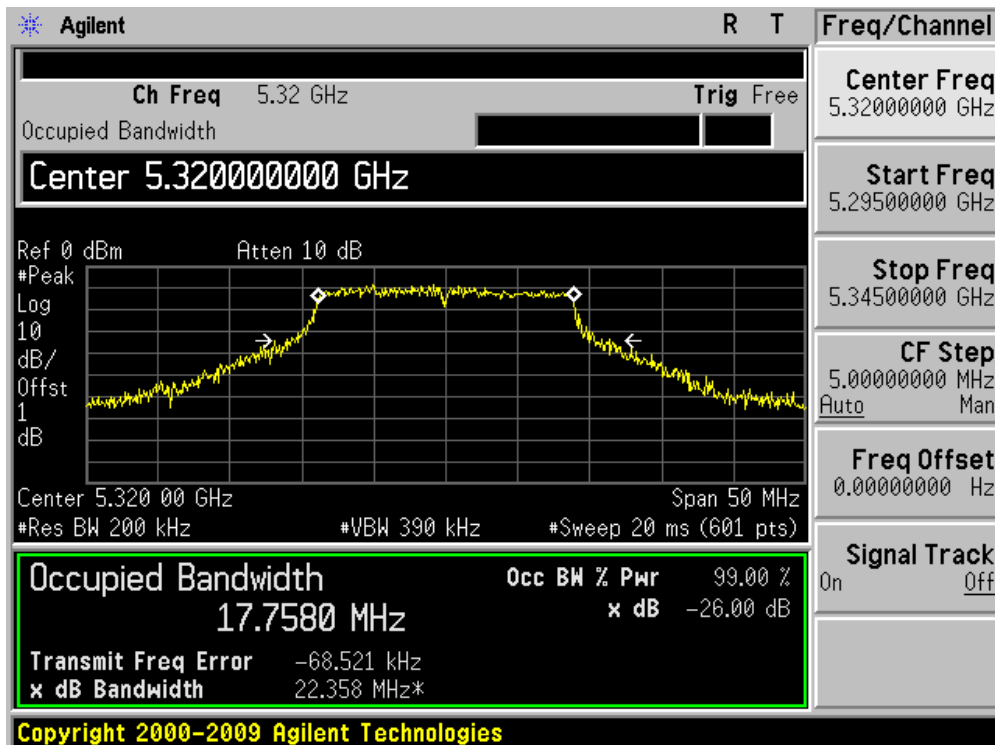
### Channel 48 (5260MHz)



Channel 60 (5300MHz)



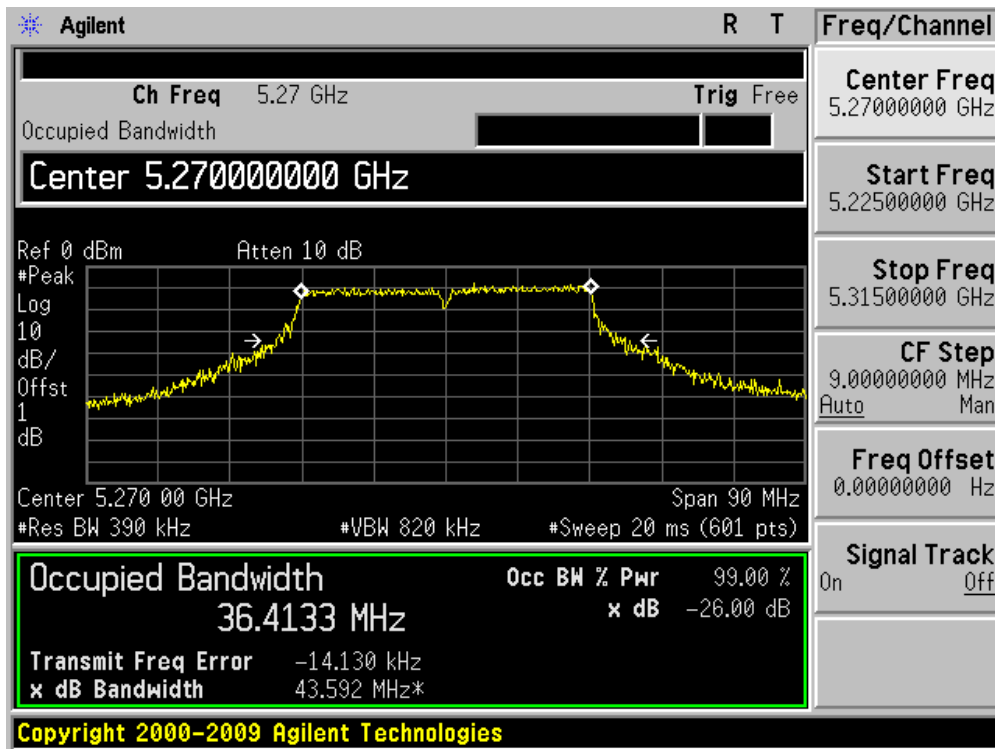
Channel 64 (5320MHz)



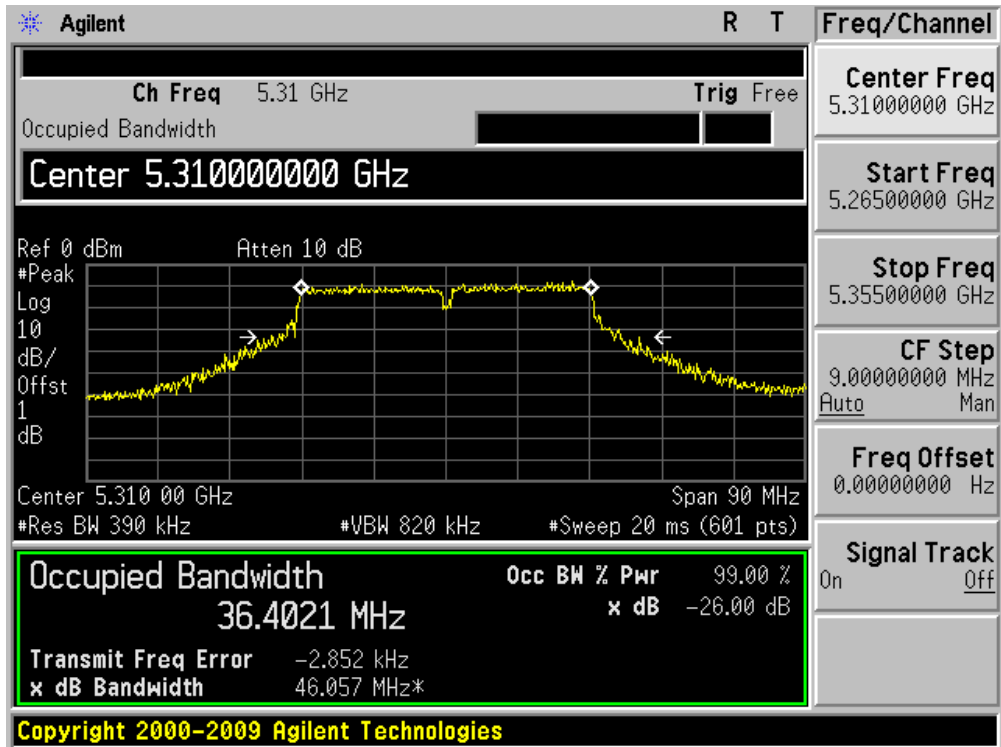
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 100)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
54	5270	43.592	36.413
62	5310	46.057	36.402

### Channel 54 (5270MHz)



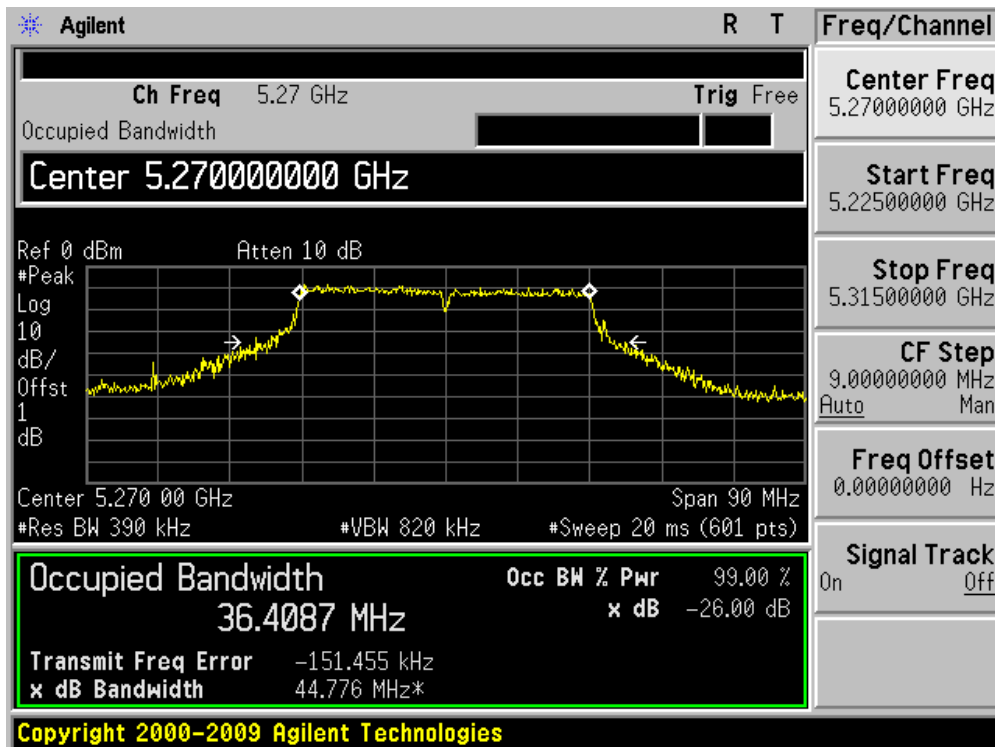
Channel 62 (5310MHz)



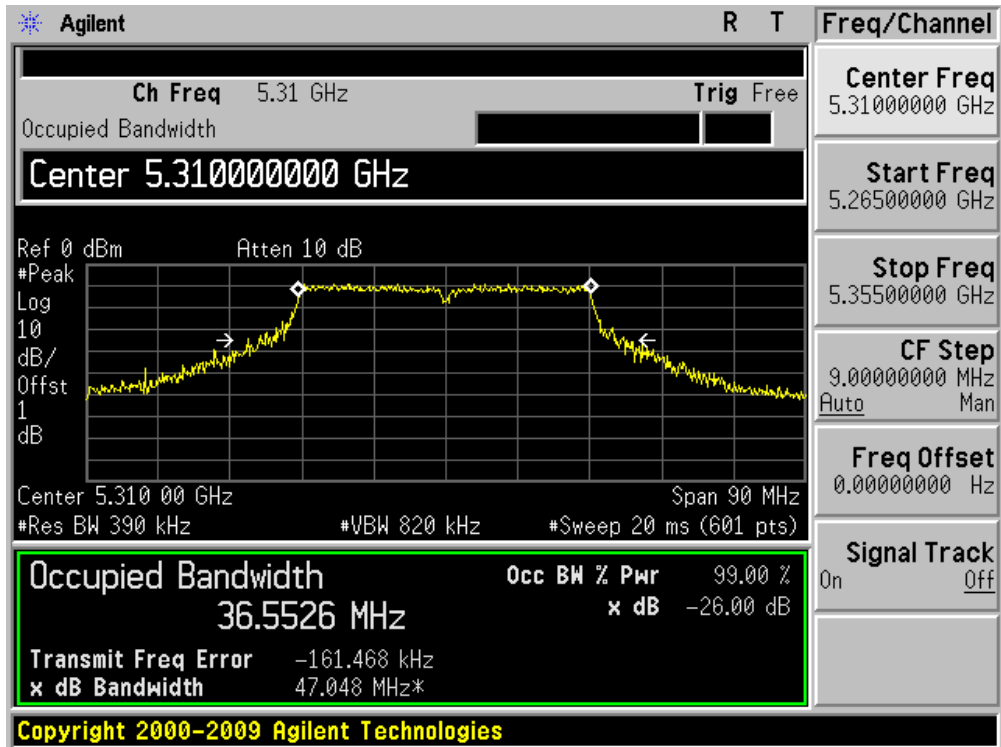
Product	:	Wireless LAN access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 001)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
54	5270	44.776	36.409
62	5310	47.048	36.553

### Channel 54 (5270MHz)



Channel 62 (5310MHz)





## 7. Power Output

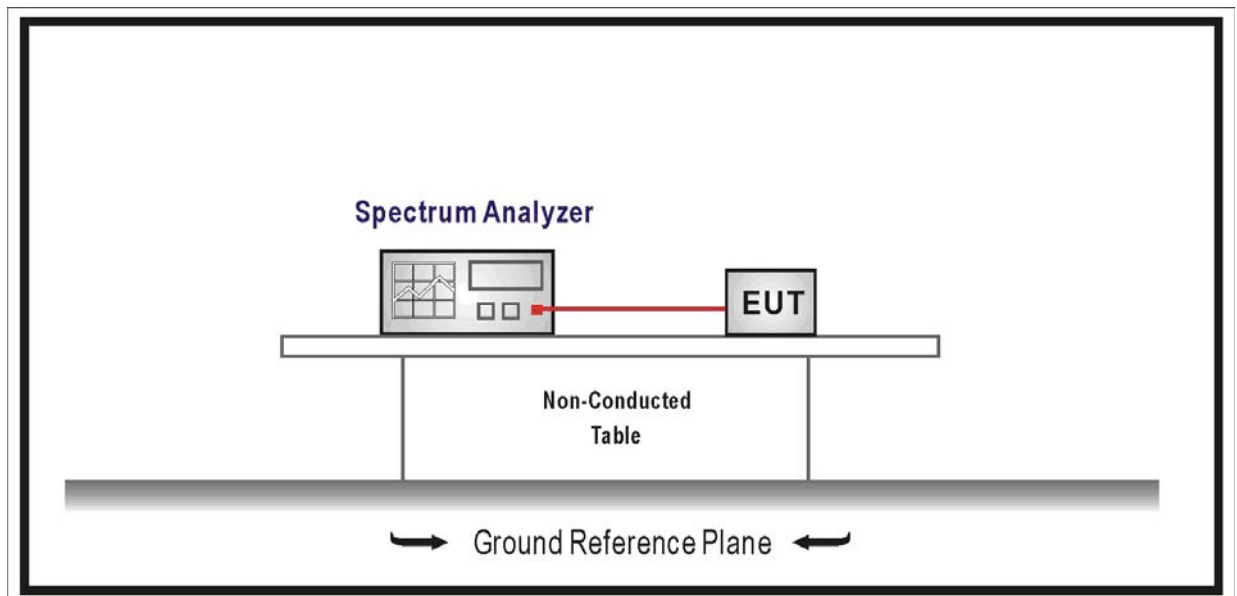
### 7.1. Test Equipment

Power Output / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup



### 7.3. Limit

- For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or  $4 \text{ dBm} + 10\log B$ , where B is the 26 dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- For the band 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10\log B$ , where B is the 26 dB emission bandwidth in megahertz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output

power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

- For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or 17 dBm + 10log B, where B is the 26 dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power. For fixed, point-to-point U-NII transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in peak transmitter power for each 1 dB of antenna gain in excess of 23 dBi would be required.

#### 7.4. Test Procedure

The EUT was tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

Use the wideband power meter to test peak power and record the result.

#### 7.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1.27$  dB

**7.6. Test Result**

5GHz Antenna Gain is 11dBi, greater than 6dBi, the maximum conducted output power is as below:

5.25-5.35GHz 24dBm-(11-6)dBm=19dBm;

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)				
		802.11a	20MHz Bandwidth		40MHz Bandwidth	
			800ns GI	400ns GI	800ns GI	400ns GI
0	1	6	6.5	7.2	13.5	15.0
1	1	9	13.0	14.4	27.0	30.0
2	1	12	19.5	21.7	40.5	45.0
3	1	18	26.0	28.9	54.0	60.0
4	1	24	39.0	43.3	81.0	90.0
5	1	36	52.0	57.8	108.0	120.0
6	1	48	58.5	65.0	121.5	135.0
7	1	54	65.0	72.2	135.0	150.0
8	2	---	13.0	14.4	27.0	30.0
9	2	---	26.0	28.9	54.0	60.0
10	2	---	39.0	43.3	81.0	90.0
11	2	---	52.0	57.8	108.0	120.0
12	2	---	78.0	86.7	162.0	180.0
13	2	---	104.0	115.6	216.0	240.0
14	2	---	117.0	130.0	243.0	270.0
15	2	---	130.0	144.0	270.0	300.0

Power output at various data rates:

Test Mode	Bandwidth	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11a(Chain 100)	20	5300	100	6	9.75
				24	8.92
				54	8.51
802.11n(Chain 100)	20	5300	100	HT0	9.86
				HT4	9.09
				HT7	8.69
802.11n(Chain 100)	40	5310	102	HT0	9.52
				HT4	9.59
				HT7	8.43

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11a (Chain 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
52	5260	8.46	N/A	8.46	19.00	Pass
60	5300	9.75	N/A	9.75	19.00	Pass
64	5320	9.54	N/A	9.54	19.00	Pass

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n(20MHz) (Chain 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
52	5260	8.49	N/A	8.49	19.00	Pass
60	5300	9.86	N/A	9.86	19.00	Pass
64	5320	9.62	N/A	9.62	19.00	Pass

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(40MHz) (Chain 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
54	5270	8.55	N/A	8.55	19.00	Pass
62	5310	9.52	N/A	9.52	19.00	Pass

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11a (Chain 001)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
52	5260	N/A	8.65	8.65	19.00	Pass
60	5300	N/A	9.90	9.90	19.00	Pass
64	5320	N/A	9.91	9.91	19.00	Pass

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11n(20MHz) (Chain 001)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
52	5260	N/A	8.02	8.02	19.00	Pass
60	5300	N/A	9.78	9.78	19.00	Pass
64	5320	N/A	9.72	9.72	19.00	Pass

Product	: Wireless LAN access Point
Test Item	: Power Output
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(40MHz) (Chain 001)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
54	5270	N/A	8.53	8.53	19.00	Pass
62	5310	N/A	10.00	10.00	19.00	Pass

Product	:	Wireless LAN access Point
Test Item	:	Power Output
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) (Chain 101)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
52	5260	5.24	5.78	8.53	19.00	Pass
60	5300	6.69	6.06	9.40	19.00	Pass
64	5320	6.88	6.02	9.48	19.00	Pass

Product	:	Wireless LAN access Point
Test Item	:	Power Output
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(40MHz) (Chain 101)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain 100	Chain 001			
54	5270	5.03	5.49	8.28	19.00	Pass
62	5310	6.79	5.54	9.22	19.00	Pass

## 8. Peak Power Spectral Density

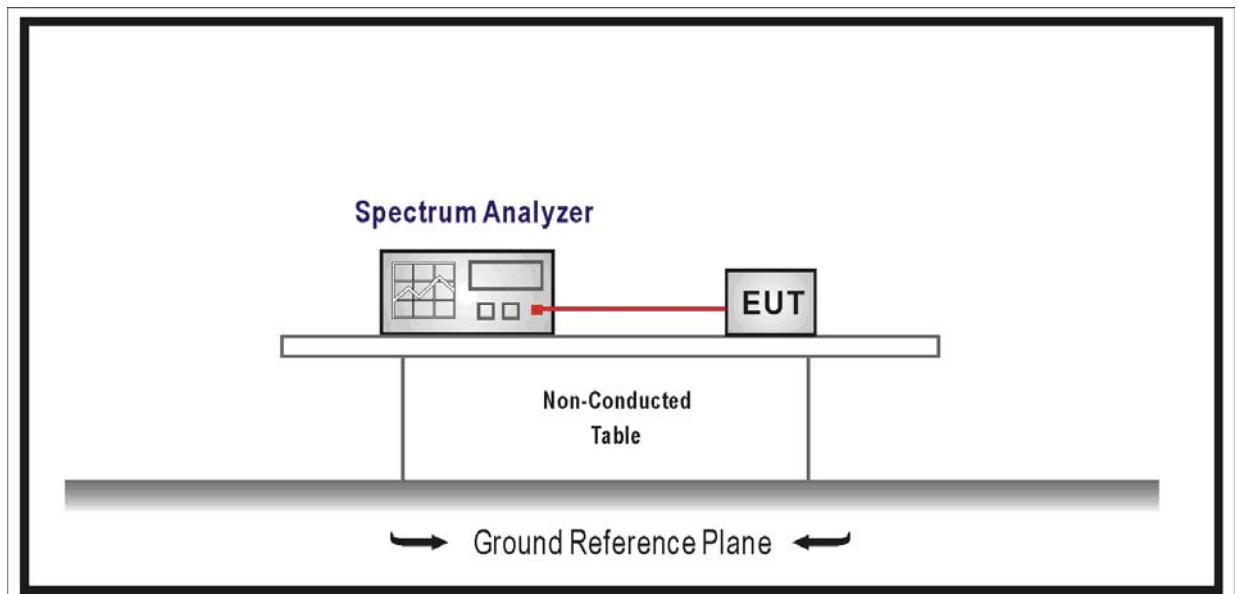
### 8.1. Test Equipment

Peak Power Spectral Density / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



### 8.3. Limit

- For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or  $4 \text{ dBm} + 10\log B$ , where B is the 26 dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- For the band 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10\log B$ , where B is the 26 dB emission bandwidth in megahertz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output



power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

- For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W or 17 dBm + 10log B, where B is the 26 dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain up to 23 dBi without any corresponding reduction in the transmitter peak output power. For fixed, point-to-point U-NII transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in peak transmitter power for each 1 dB of antenna gain in excess of 23 dBi would be required.

#### 8.4. Test Procedure

The EUT was tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

Use sample detector and power averaging (not video averaging) mode. Set RBW= 1 MHz\*, VBW > 1 MHz. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging. This method is permitted only if the transmission pulse or sequence of pulses remains at maximum transmit power throughout each of the 100 sweeps of averaging and that the interval between pulses is not included in any of the sweeps (e.g., 100 sweeps should occur during one transmission, or each sweep gated to occur during a transmission).

#### 8.5. Uncertainty

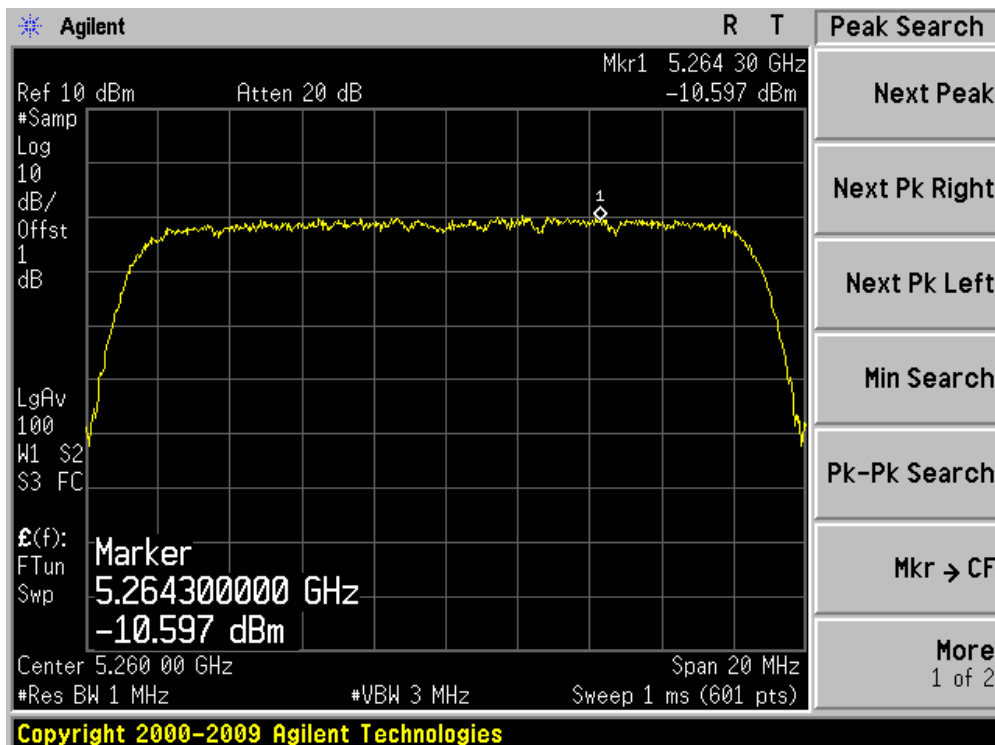
The measurement uncertainty is defined as  $\pm 1.27$  dB

8.6. Test Result

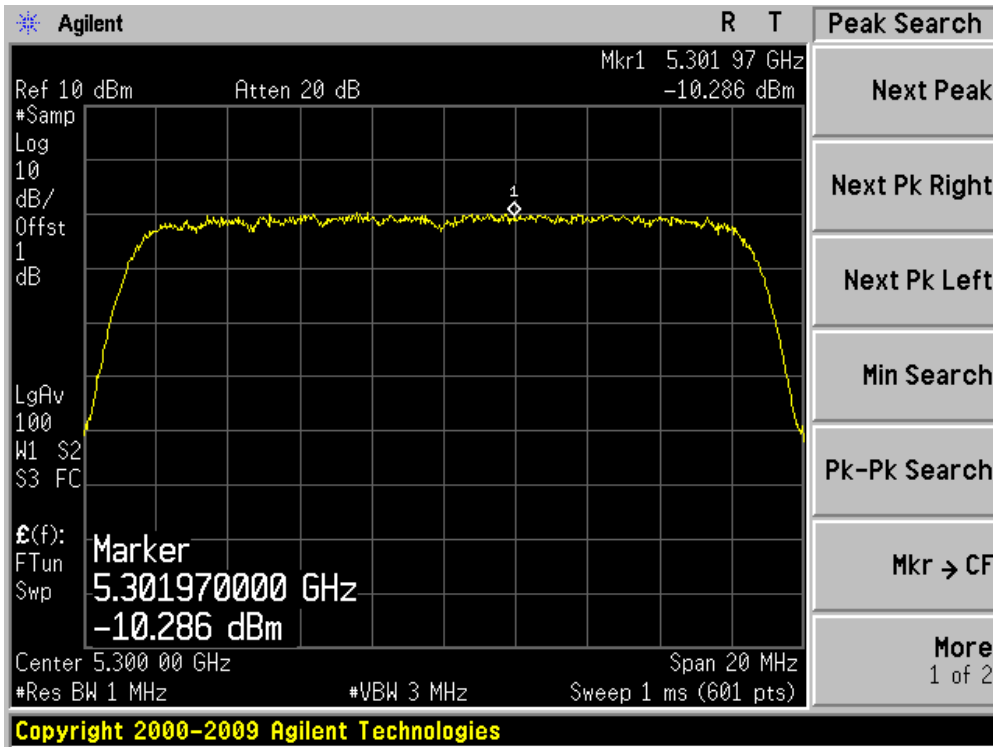
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
52	5260	-10.597	N/A	-10.597	6	Pass
60	5300	-10.286	N/A	-10.286	6	Pass
64	5320	-10.076	N/A	-10.076	6	Pass

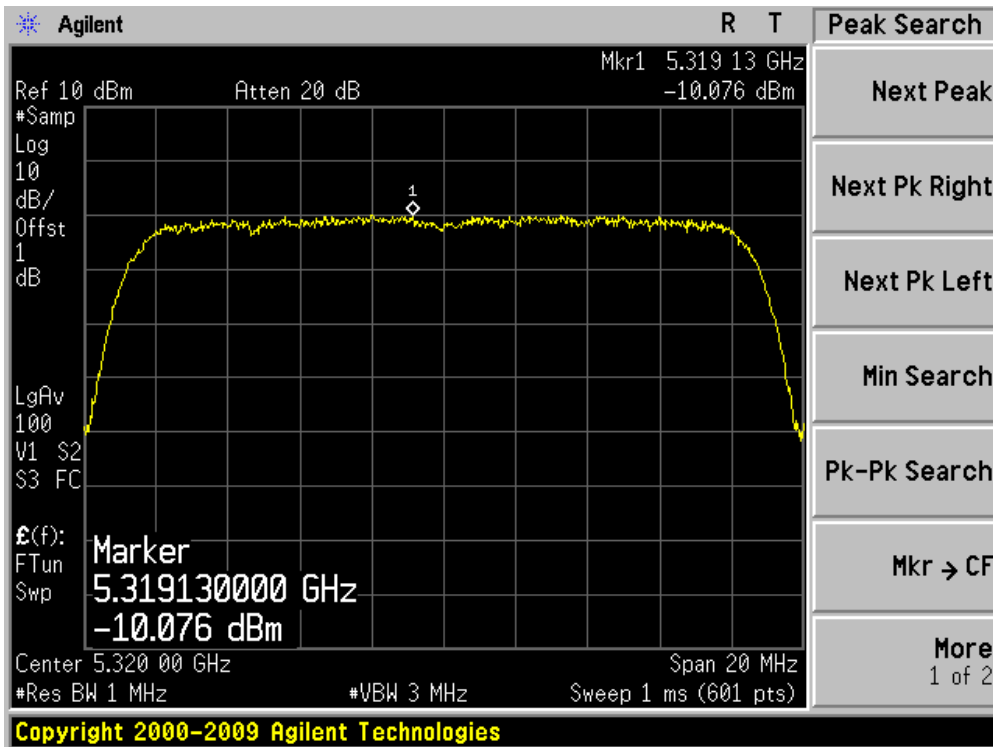
Channel 52 (5260MHz)



Channel 60 (5300MHz)



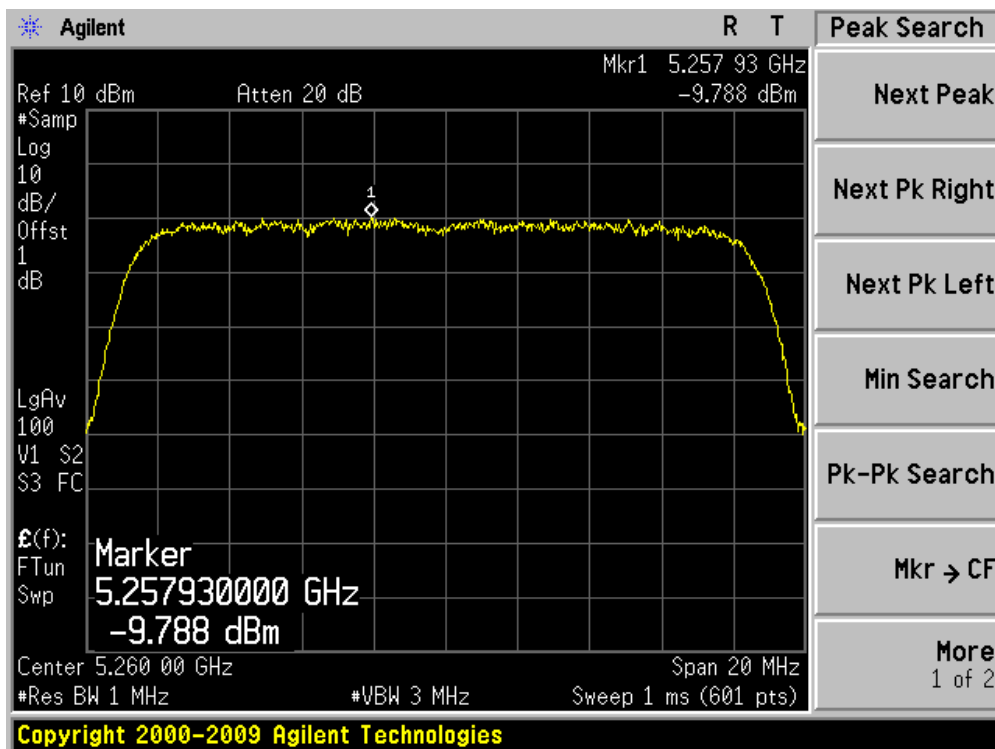
Channel 64 (5320MHz)



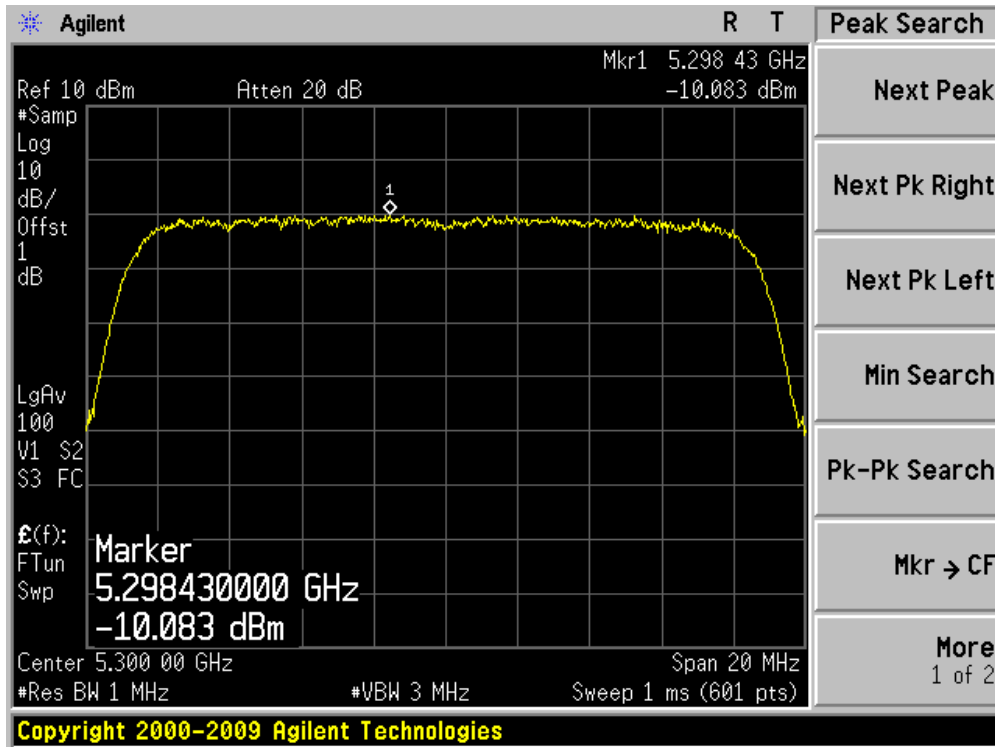
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 001)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
52	5260	N/A	-9.788	-9.788	6	Pass
60	5300	N/A	-10.083	-10.083	6	Pass
64	5320	N/A	-9.572	-9.572	6	Pass

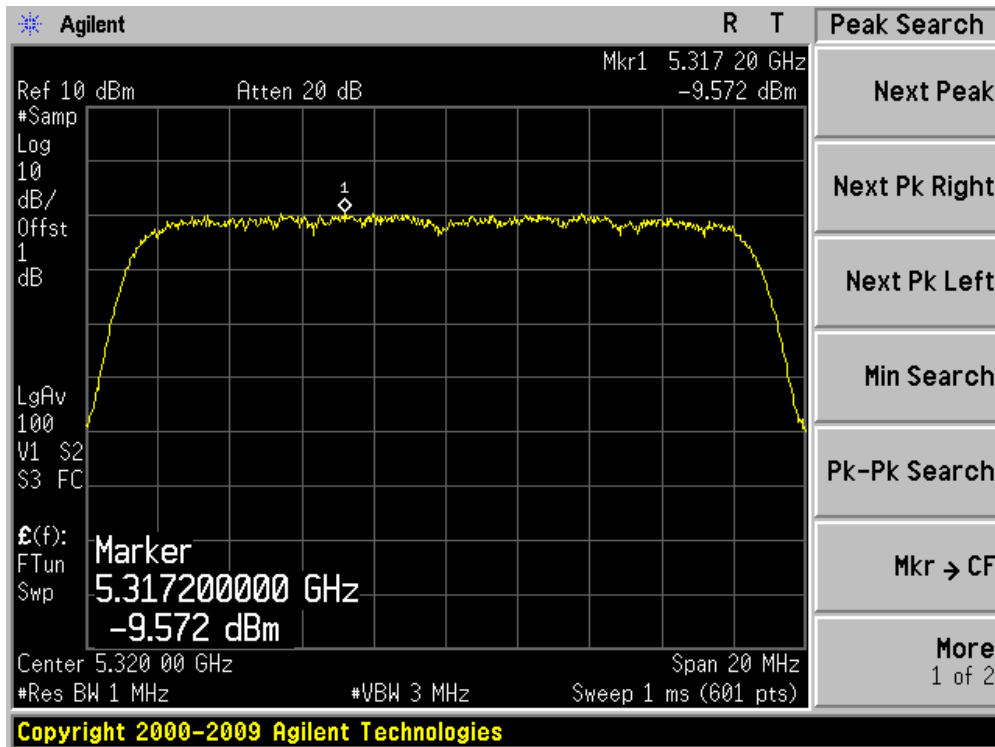
### Channel 52 (5260MHz)



Channel 60 (5300MHz)



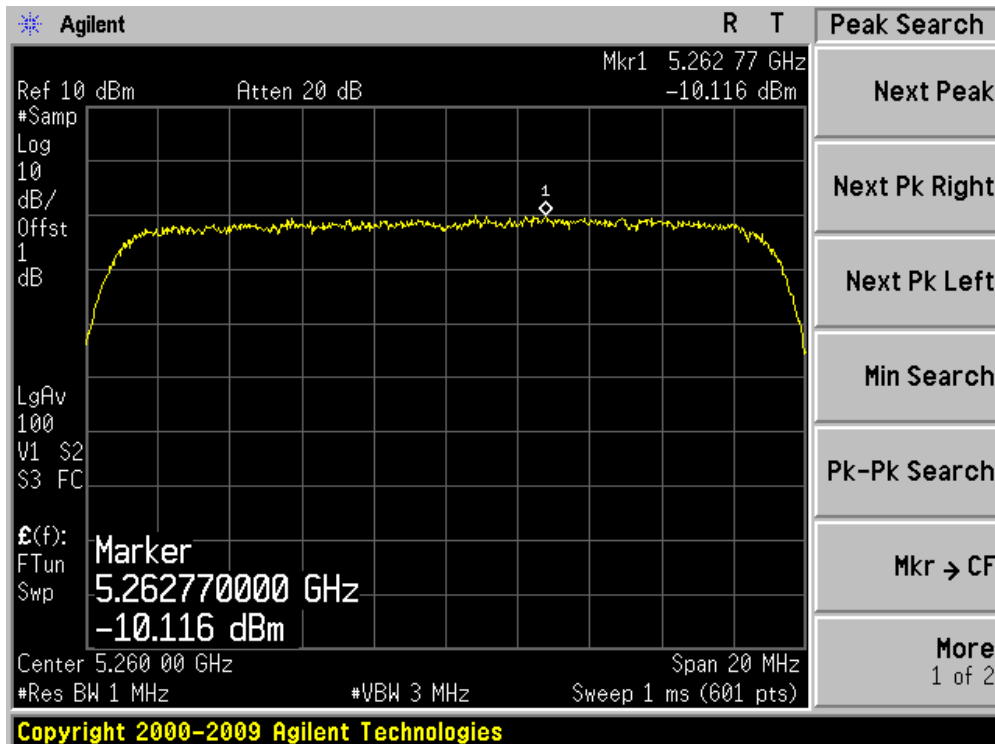
Channel 64 (5320MHz)



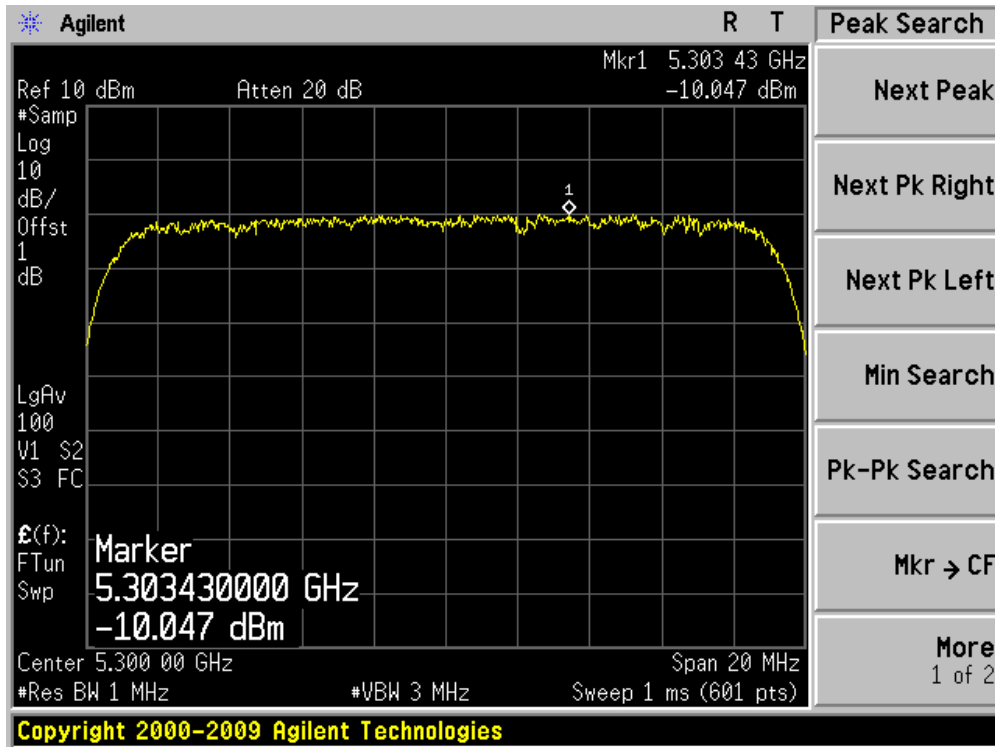
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
52	5260	-10.116	N/A	-10.116	6	Pass
60	5300	-10.047	N/A	-10.047	6	Pass
64	5320	-9.917	N/A	-9.917	6	Pass

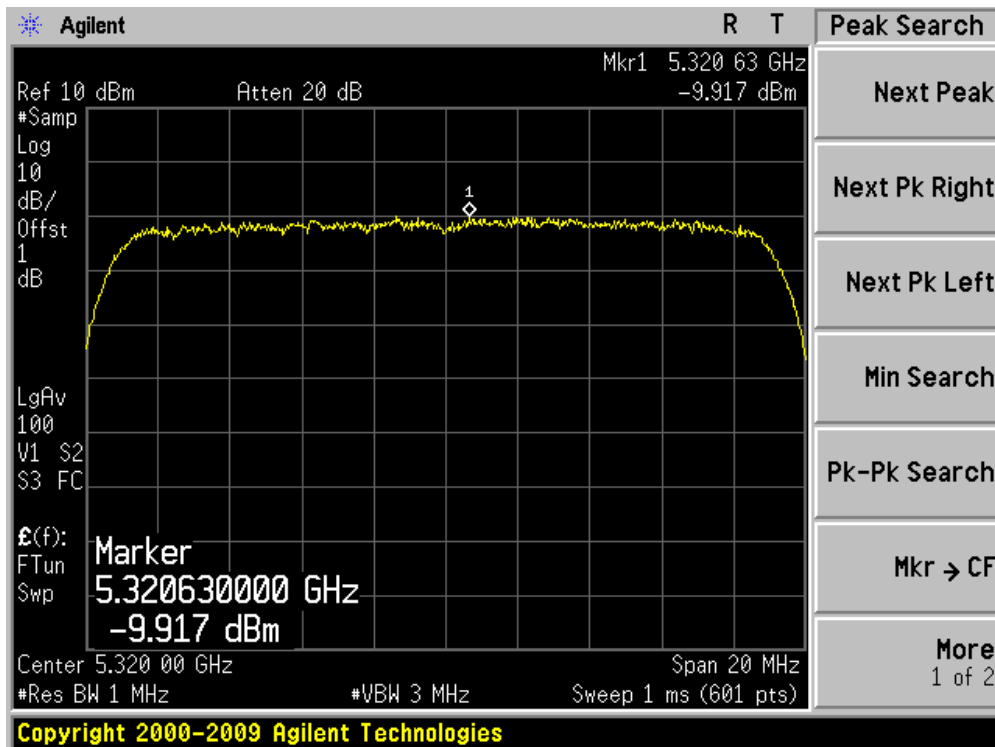
Channel 52 (5260MHz)



Channel 60 (5300MHz)



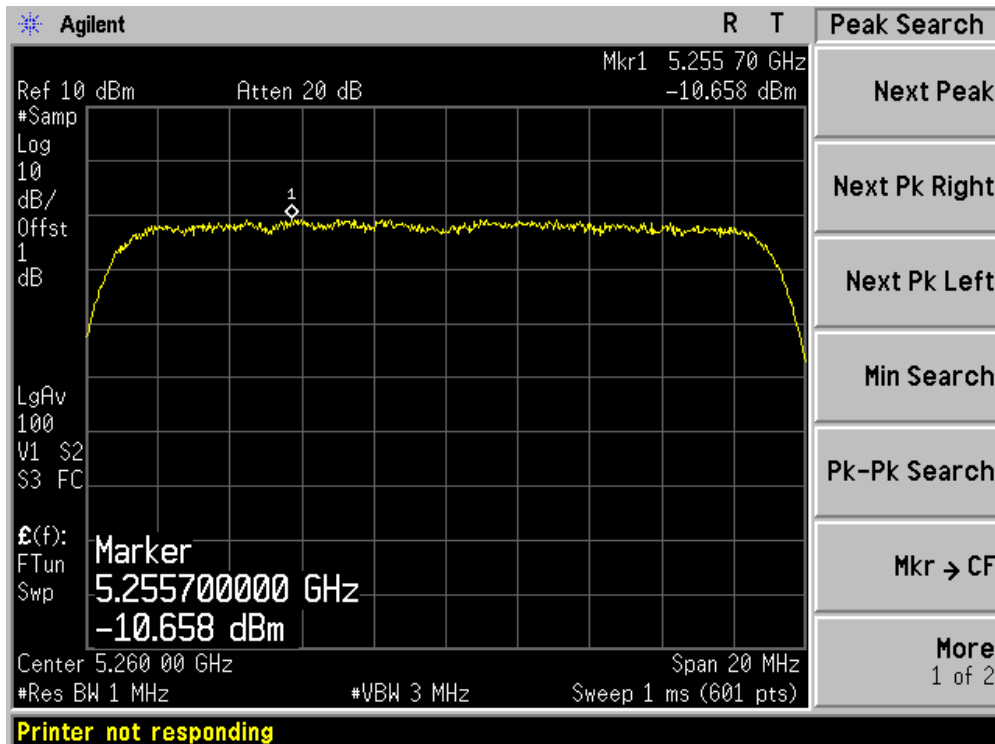
Channel 64 (5320MHz)



Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 001)

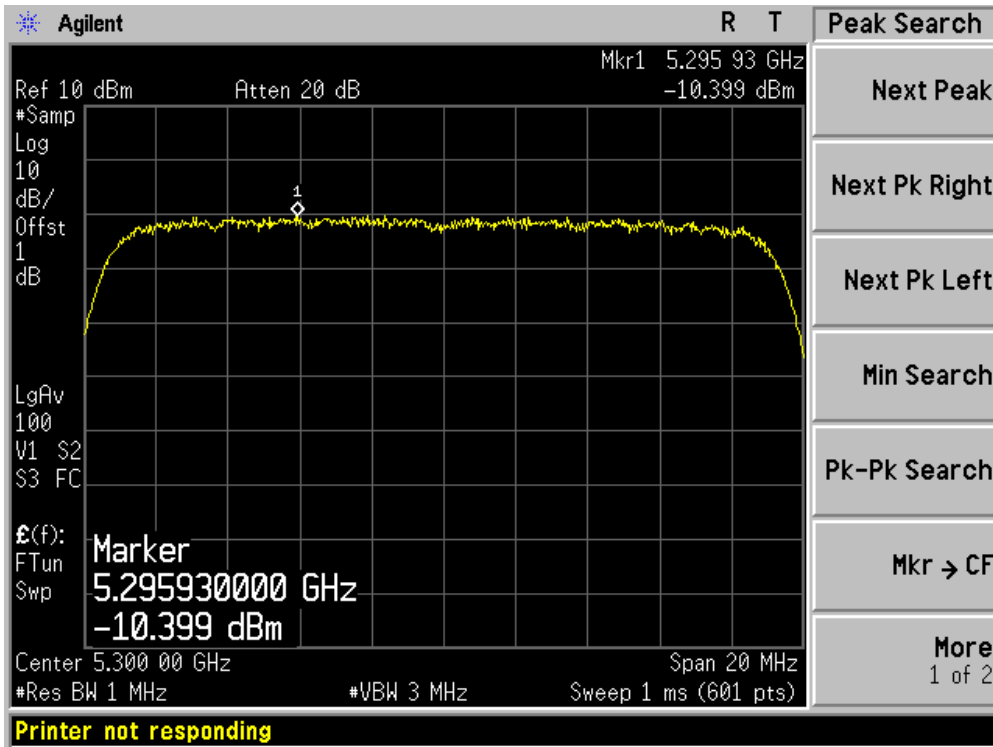
Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
52	5260	N/A	-10.658	-10.658	6	Pass
60	5300	N/A	-10.339	-10.339	6	Pass
64	5320	N/A	-10.210	-10.210	6	Pass

### Channel 52 (5260MHz)

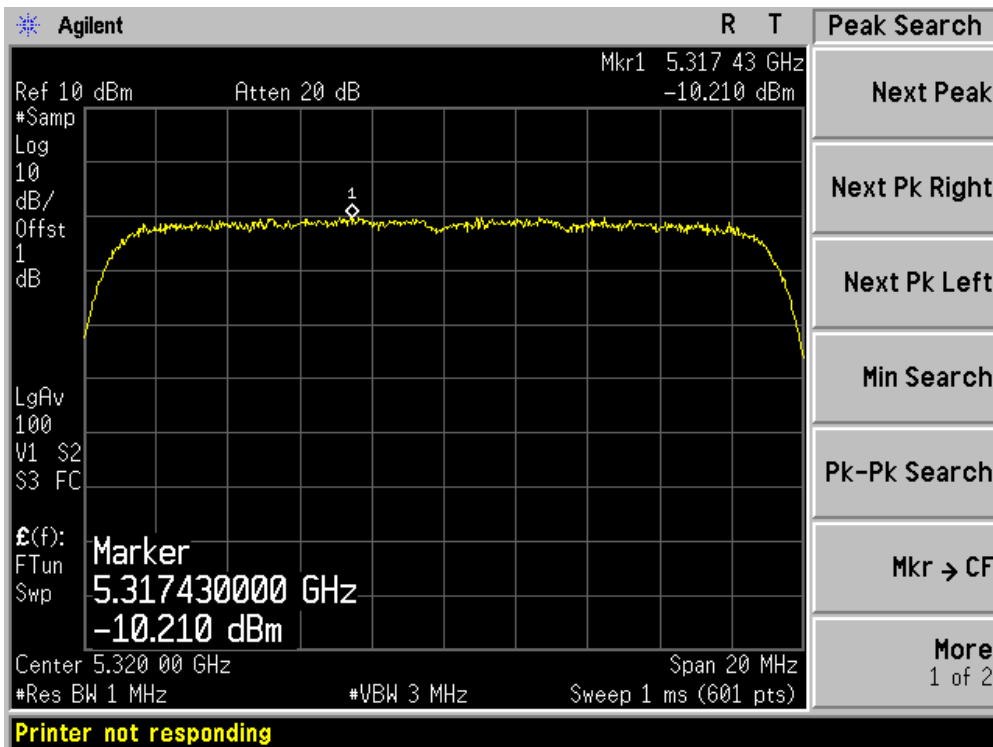




Channel 60 (5300MHz)



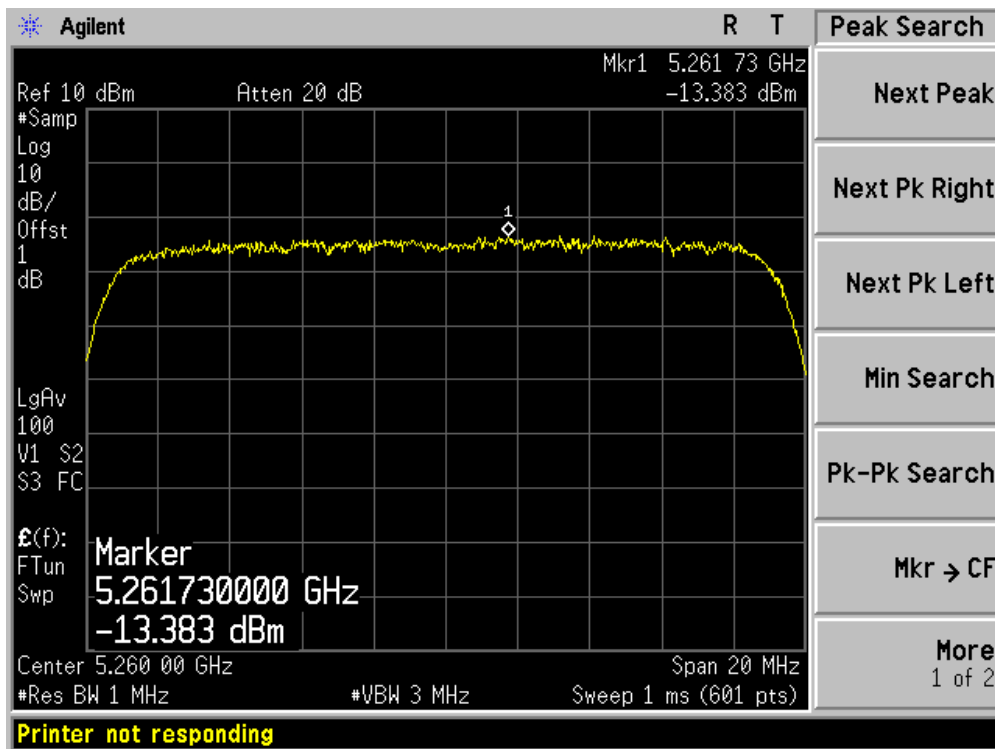
Channel 64 (5320MHz)



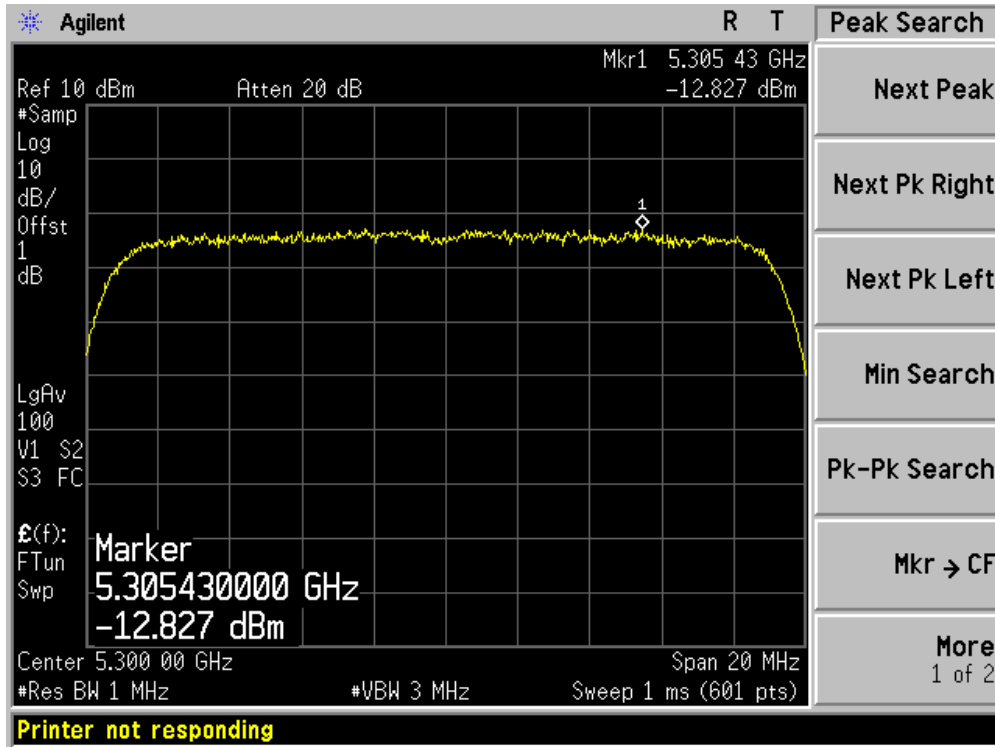
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 101)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
52	5260	-13.383	-12.998	-10.176	6	Pass
60	5300	-12.827	-14.167	-10.435	6	Pass
64	5320	-12.786	-14.090	-10.379	6	Pass

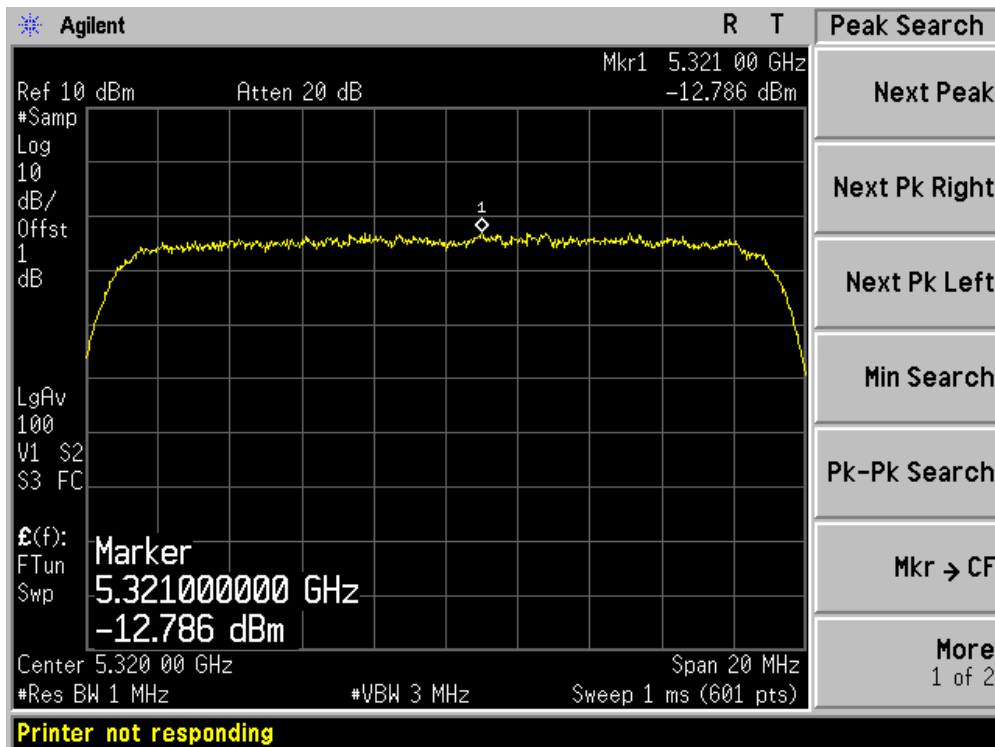
### Channel 52 (5260MHz) - Chain 100



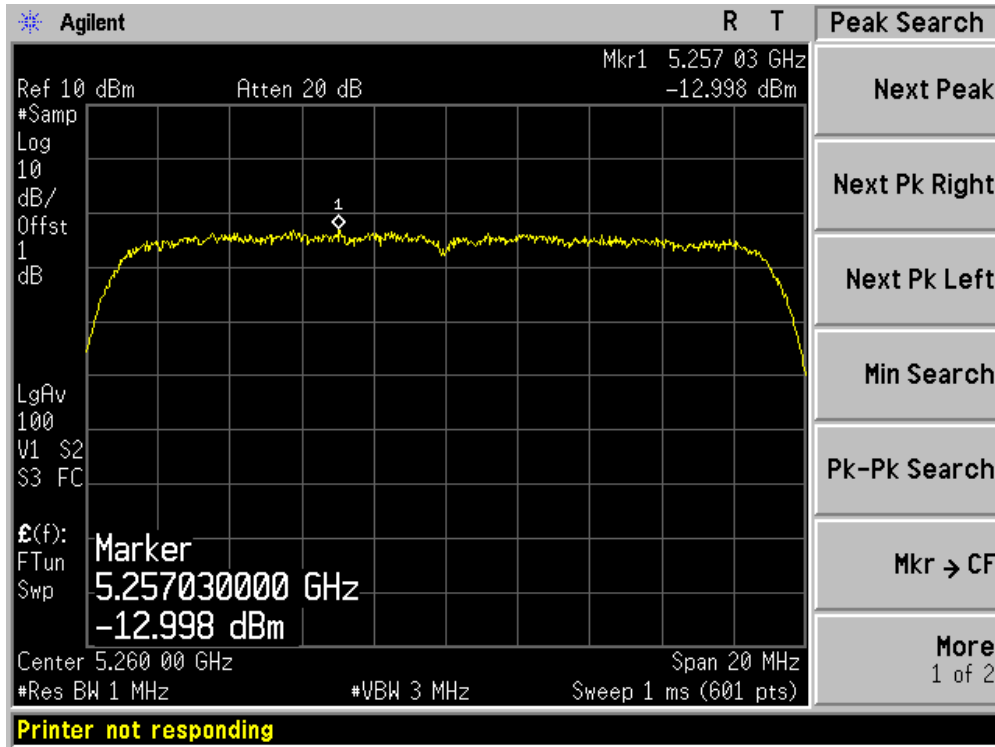
Channel 60 (5300MHz) - Chain 100



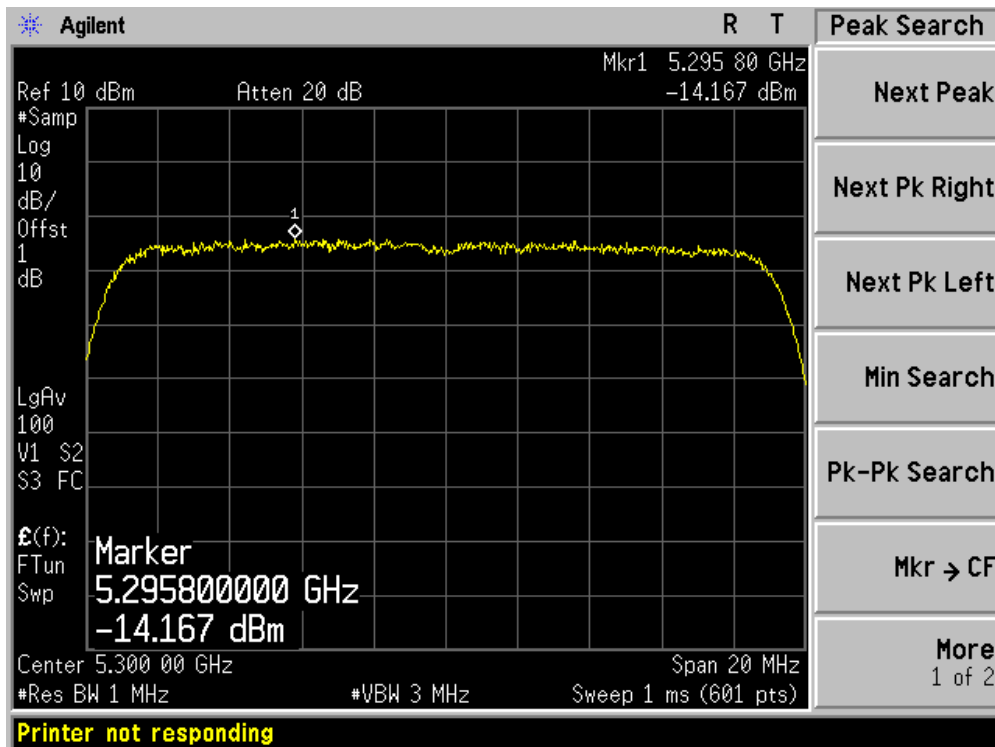
Channel 64 (5320MHz) - Chain 100



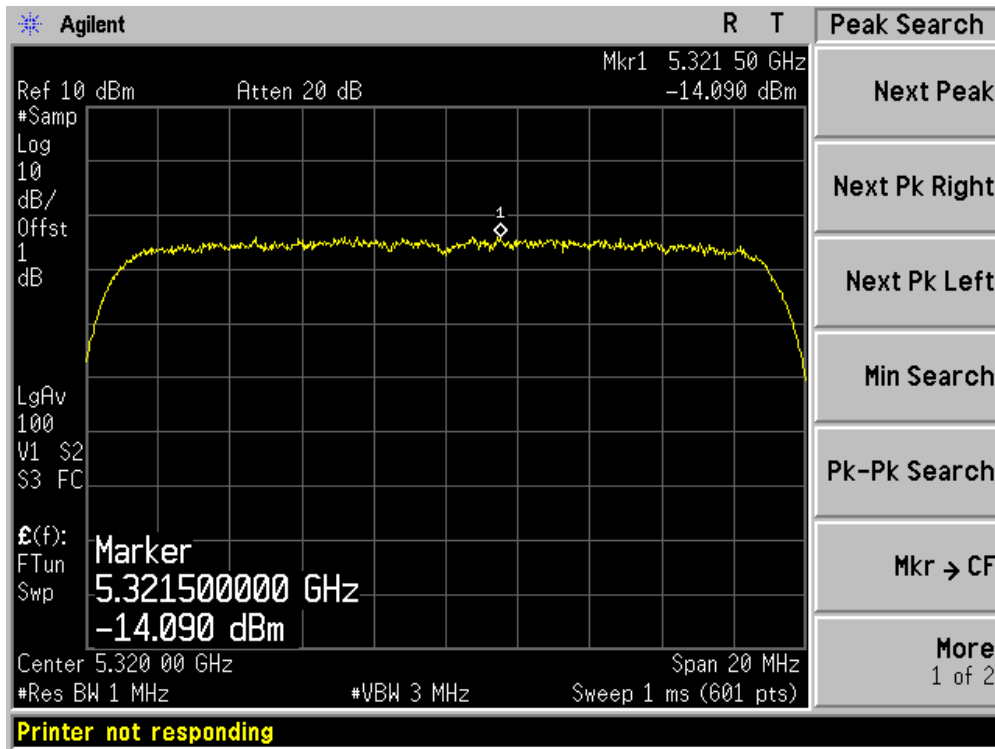
Channel 52 (5260MHz) - Chain 001



Channel 60 (5300MHz) - Chain 001



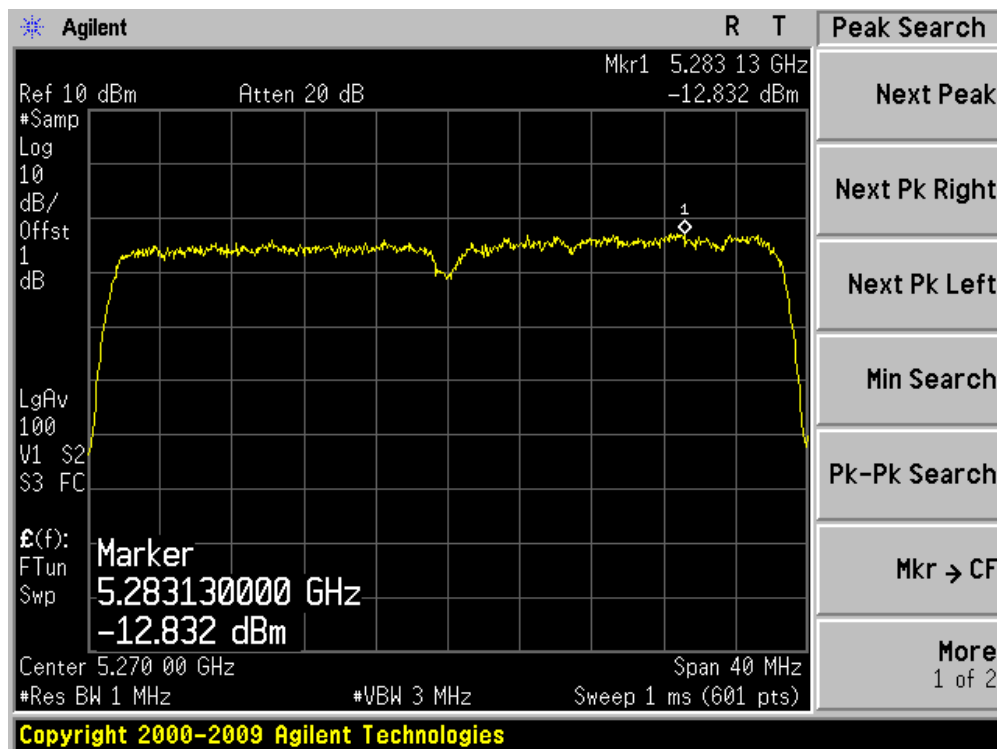
Channel 64 (5320MHz) - Chain 001



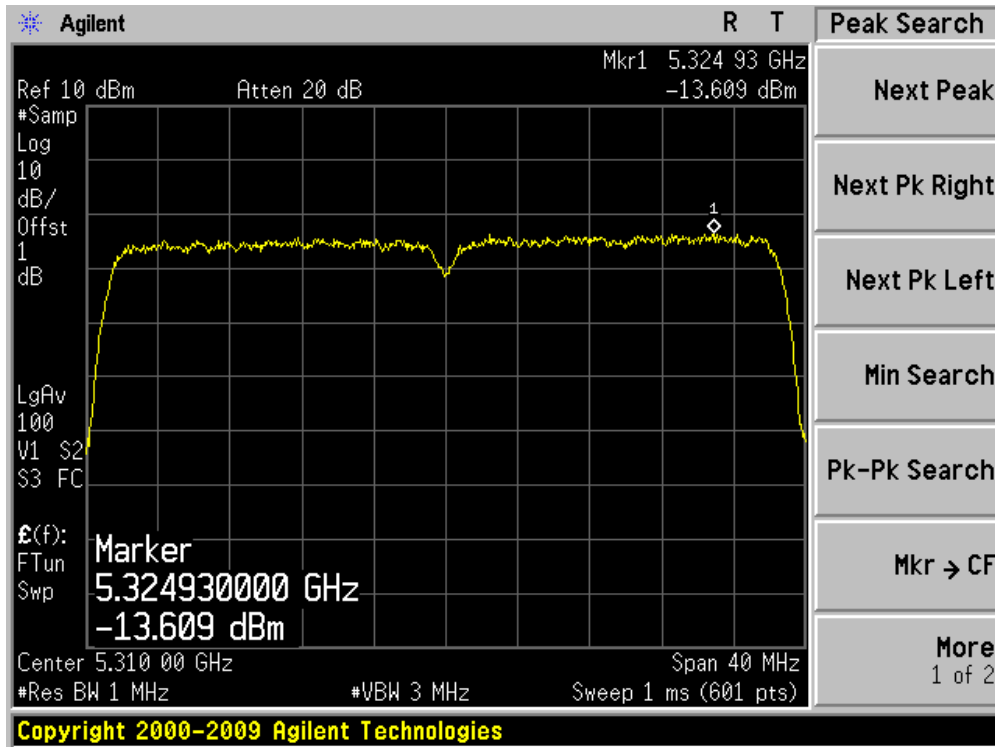
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
54	5270	-12.832	N/A	-12.832	6	Pass
62	5310	-13.609	N/A	-13.609	6	Pass

### Channel 54 (5270MHz)



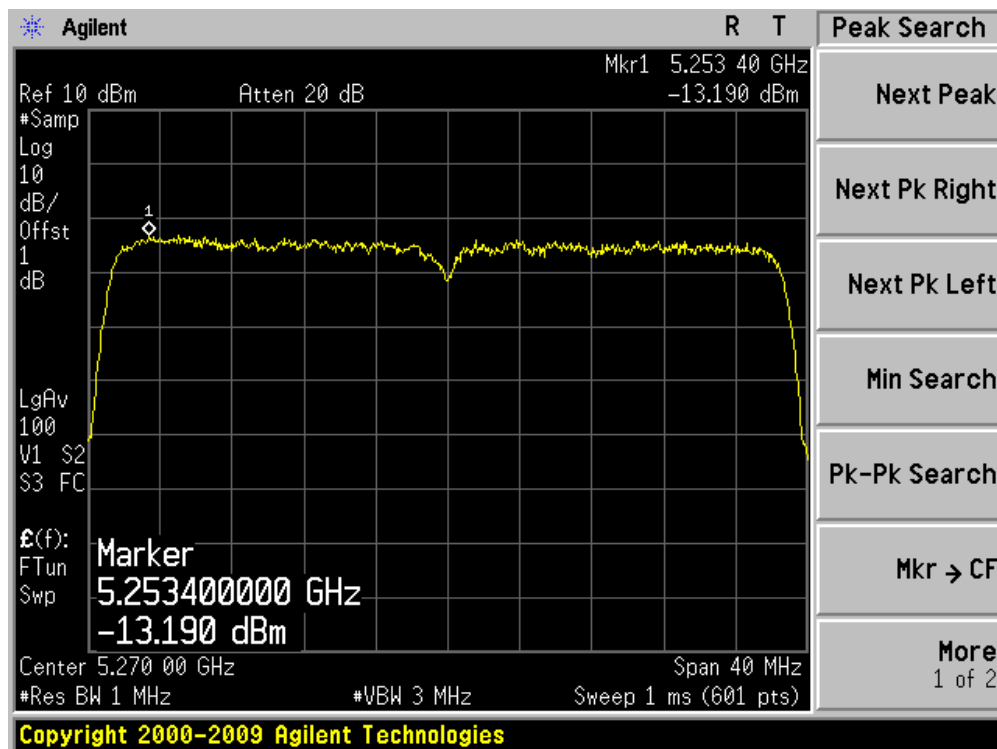
Channel 62 (5310MHz)



Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 001)

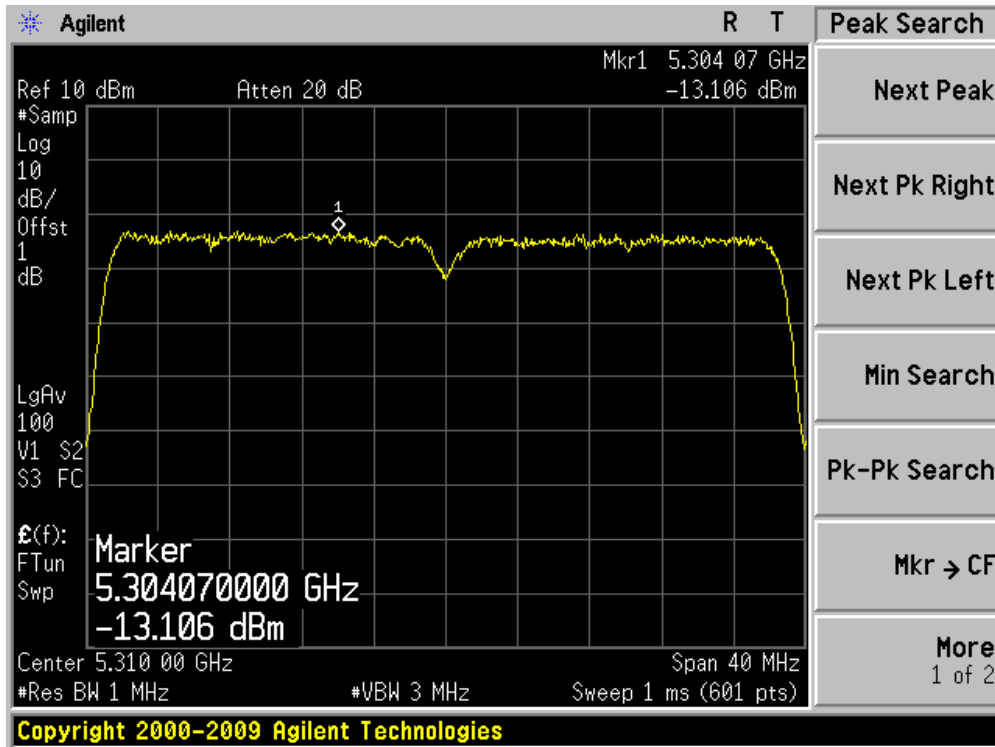
Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
54	5270	N/A	-13.190	-13.190	6	Pass
62	5310	N/A	-13.106	-13.106	6	Pass

### Channel 54 (5270MHz)





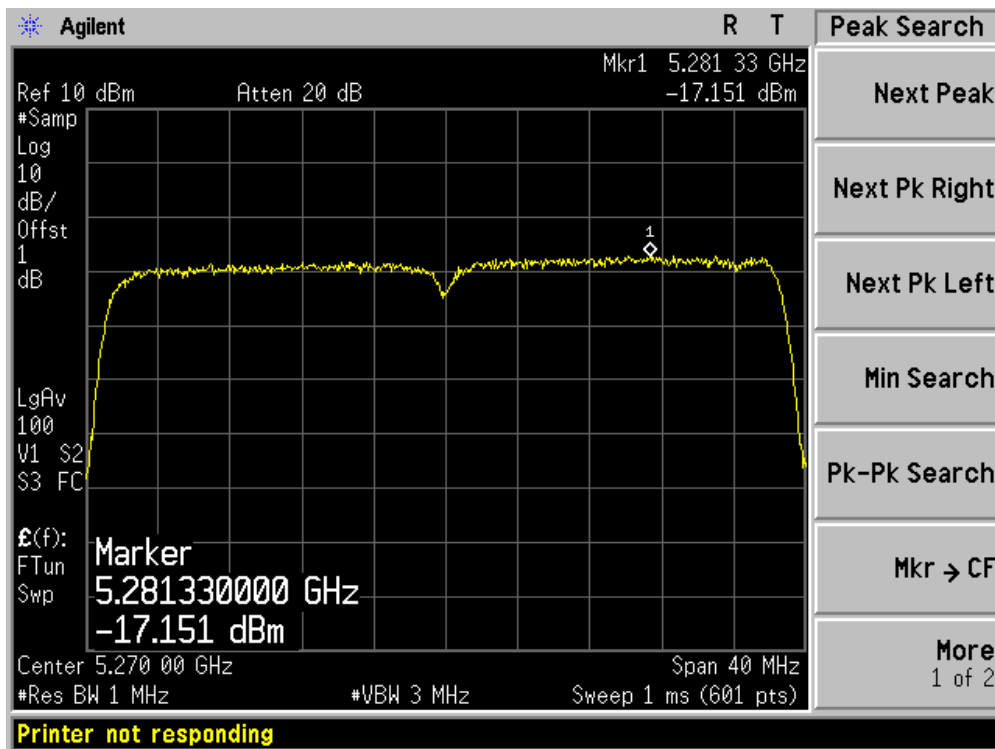
Channel 62 (5310MHz)



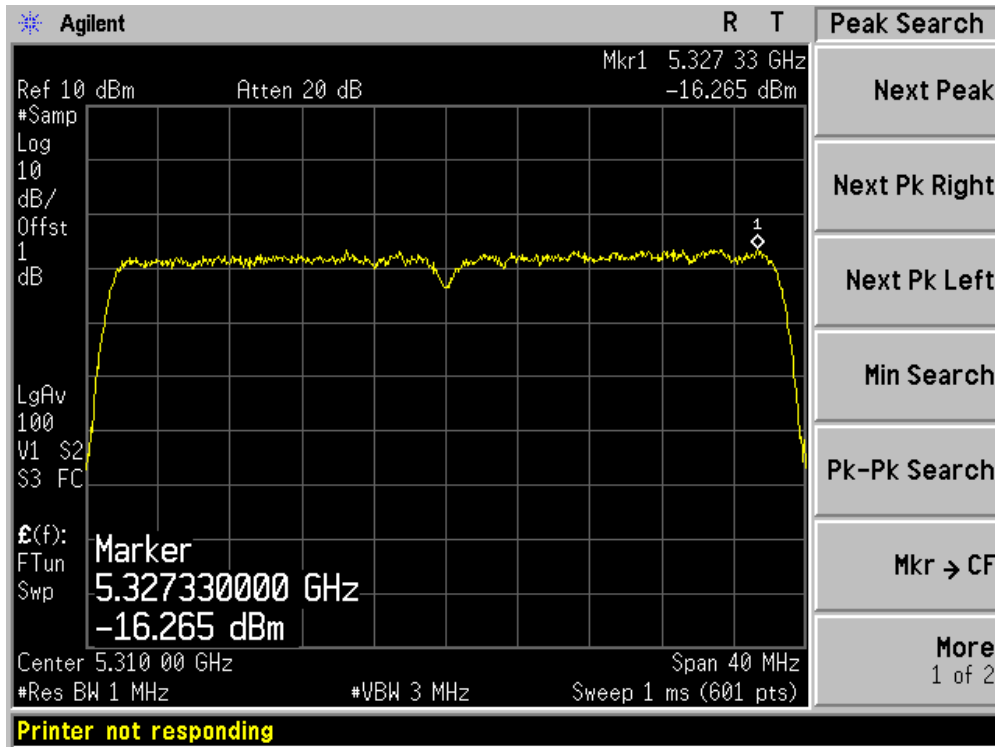
Product	:	Wireless LAN access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 101)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Chain 100	Chain 001			
54	5270	-17.151	-17.338	-14.233	6	Pass
62	5310	-16.265	-17.769	-13.942	6	Pass

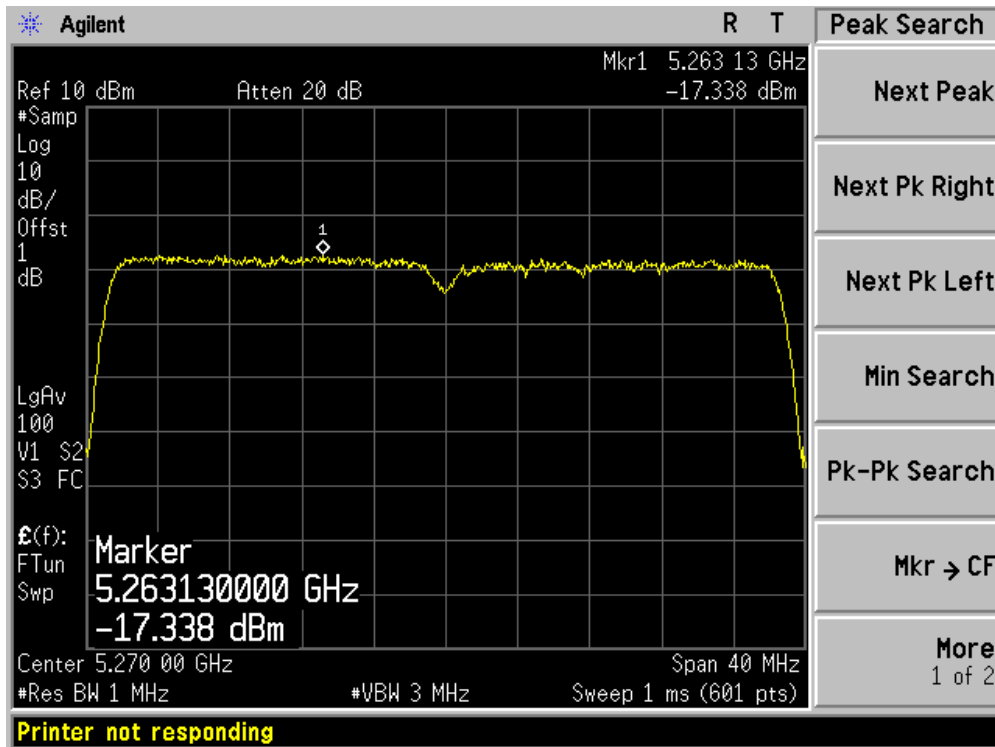
### Channel 54 (5270MHz) - Chain 100



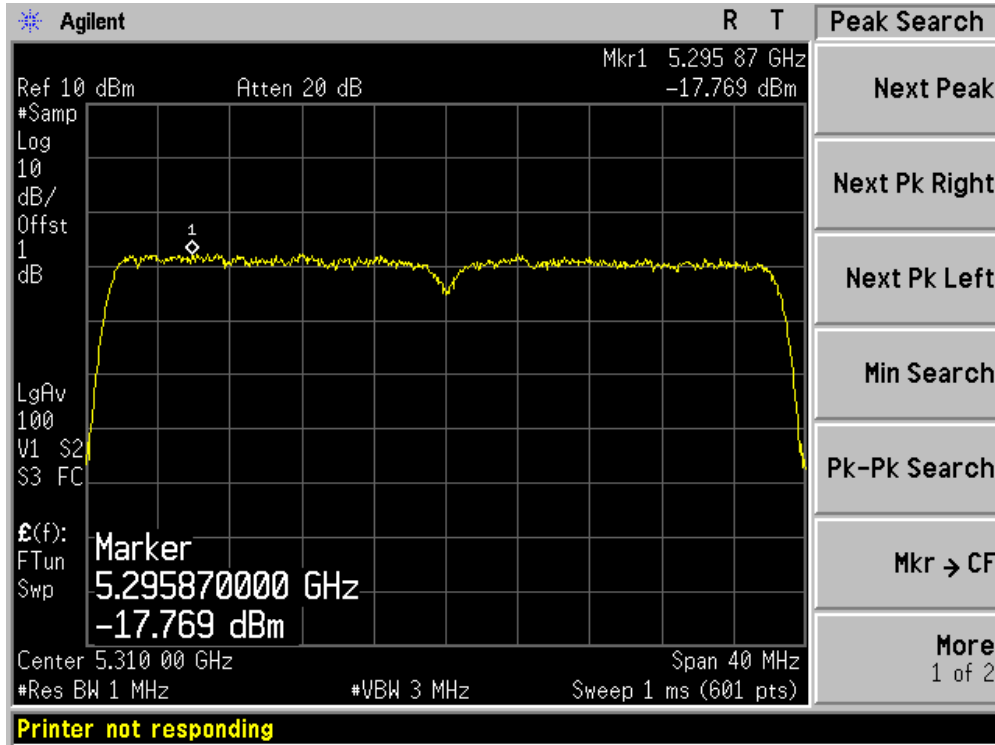
Channel 62 (5310MHz) - Chain 100



Channel 54 (5270MHz) - Chain 001



Channel 62 (5310MHz) - Chain 001



## 9. Peak Excursion

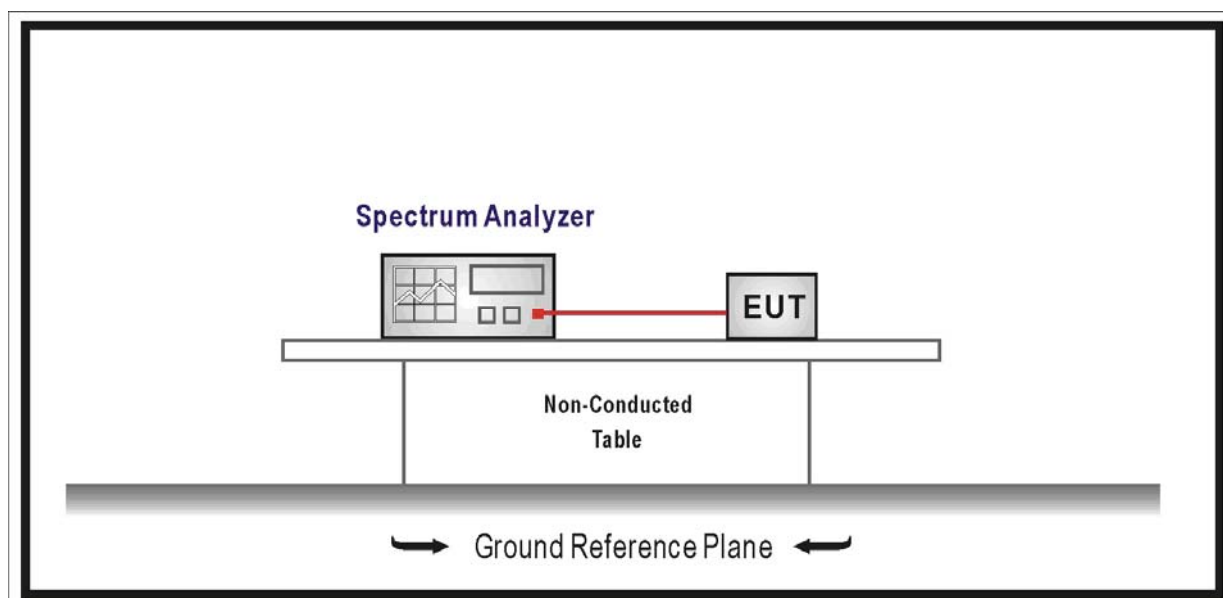
### 9.1. Test Equipment

Peak Excursion / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



### 9.3. Limit

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

#### 9.4. Test Procedure

The EUT was tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be  $\leq 13$  dB for all frequencies across the emission bandwidth.

- 1st Trace: Set RBW = 1 MHz, VBW  $\geq 3$  MHz with peak detector and maxhold settings.
- 2nd Trace: Set RBW = 1 MHz, VBW = 30 kHz with peak detector and maxhold settings.

#### 9.5. Uncertainty

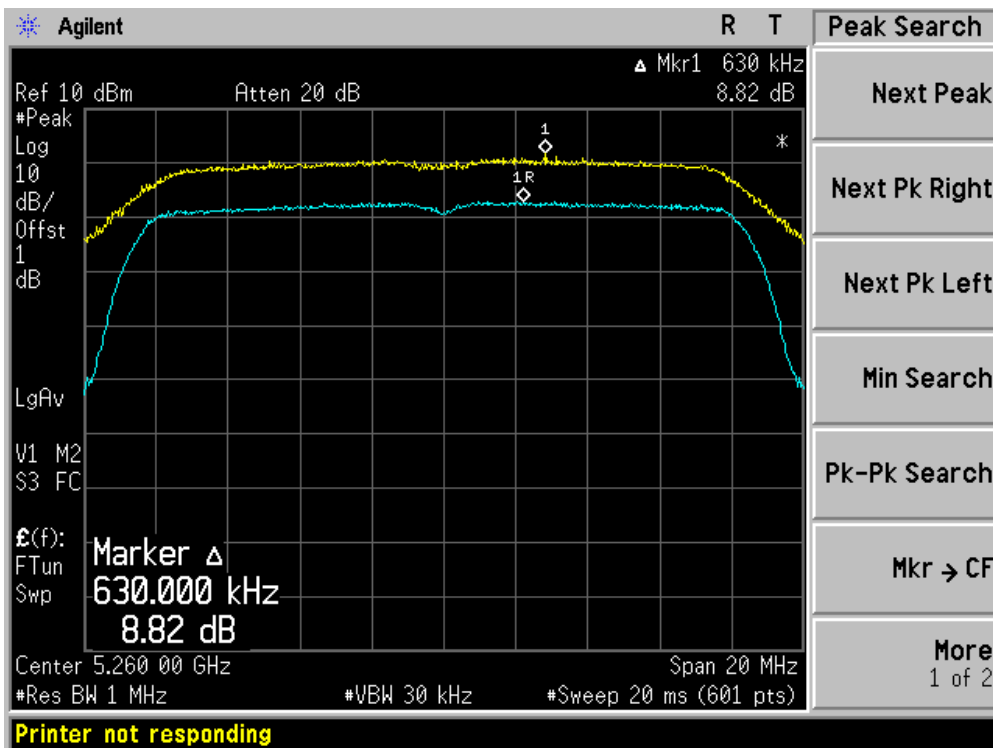
The measurement uncertainty is defined as  $\pm 1.27$  dB

9.6. Test Result

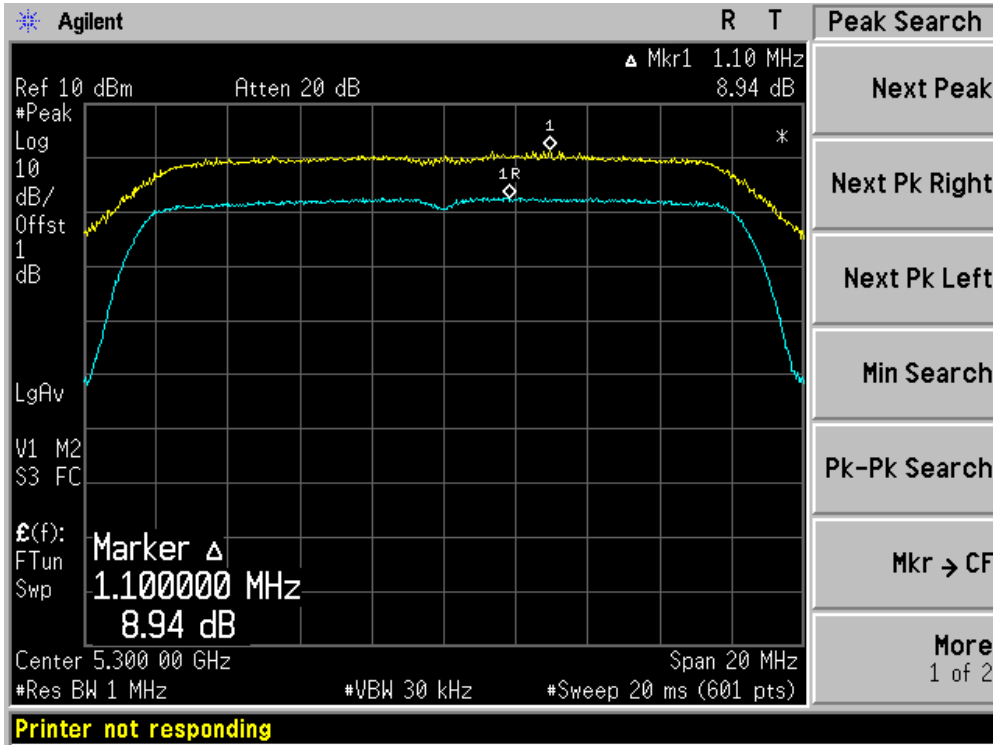
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 100)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
52	5260	8.82	13	Pass
60	5300	8.94	13	Pass
64	5320	8.87	13	Pass

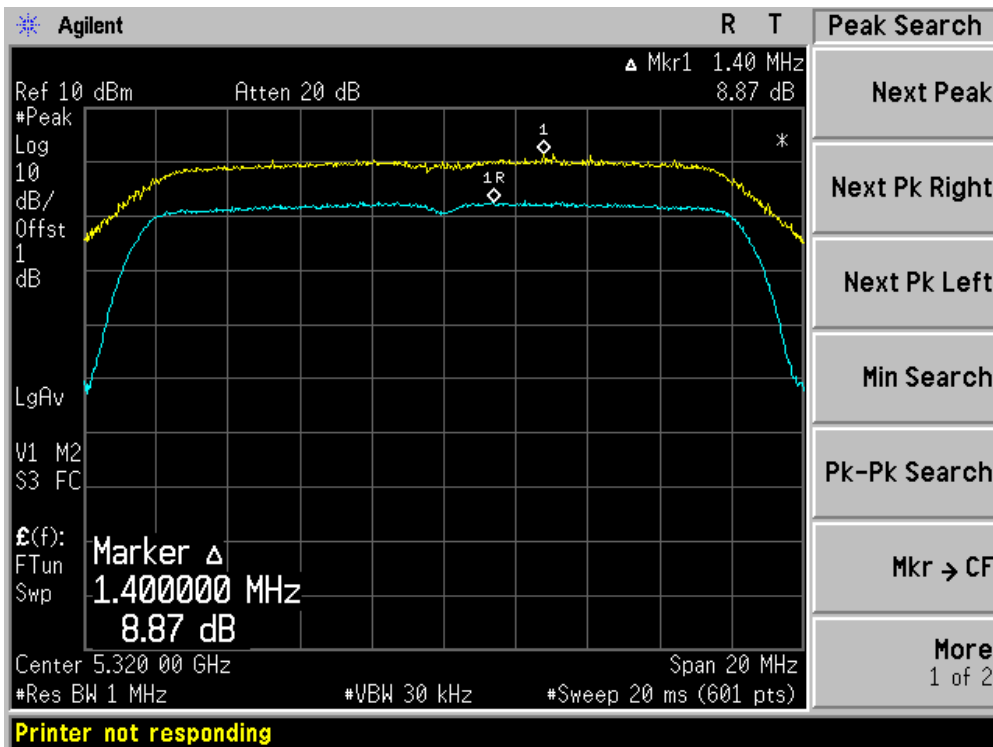
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

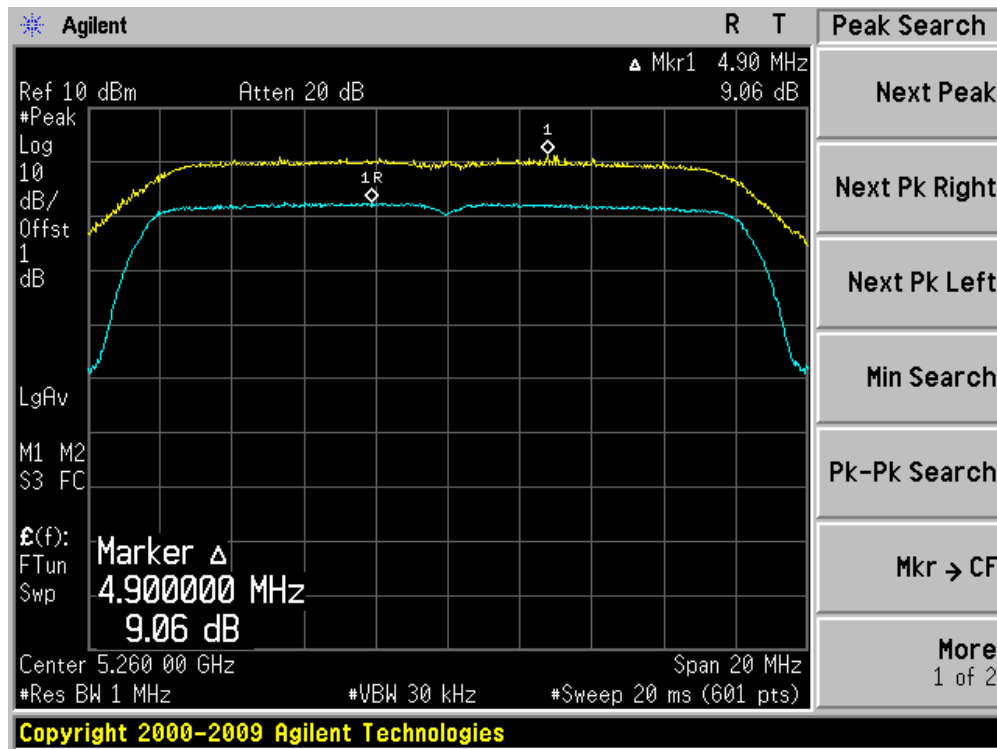




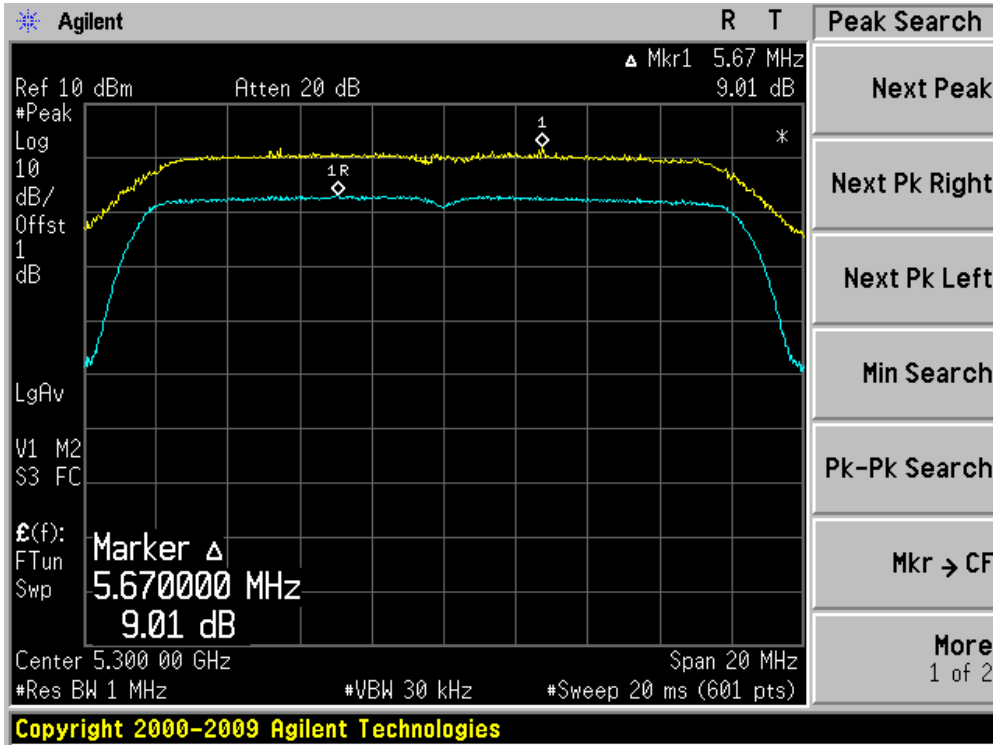
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a (Chain 001)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
52	5260	9.06	13	Pass
60	5300	9.01	13	Pass
64	5320	8.69	13	Pass

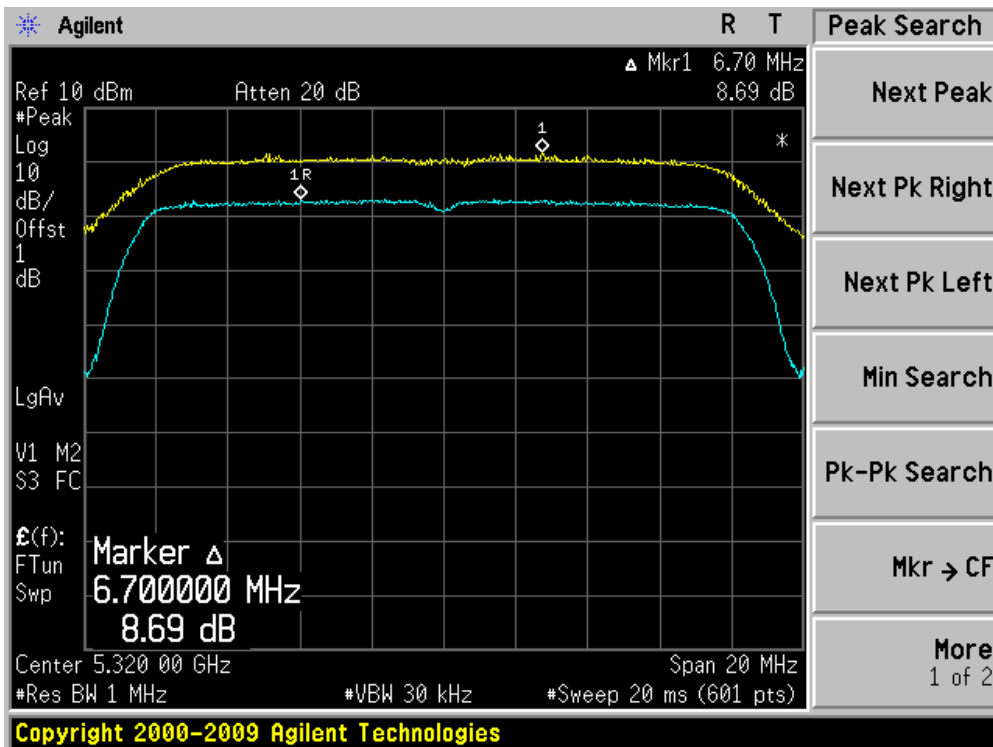
### Channel 52 (5260MHz)



Channel 60 (5300MHz)



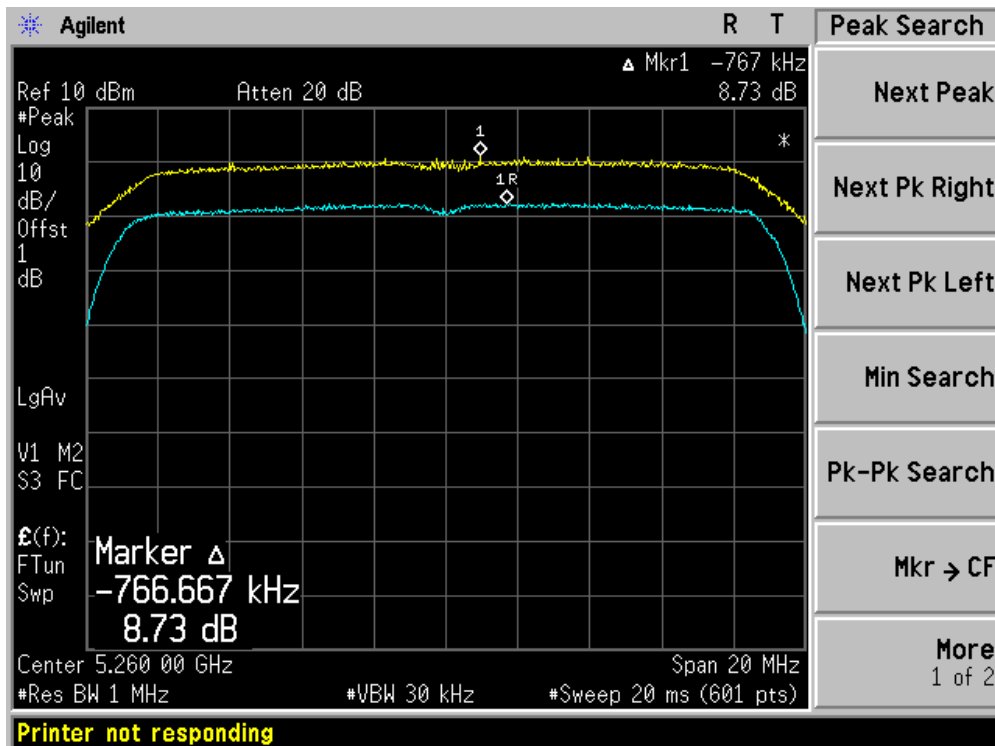
Channel 64 (5320MHz)



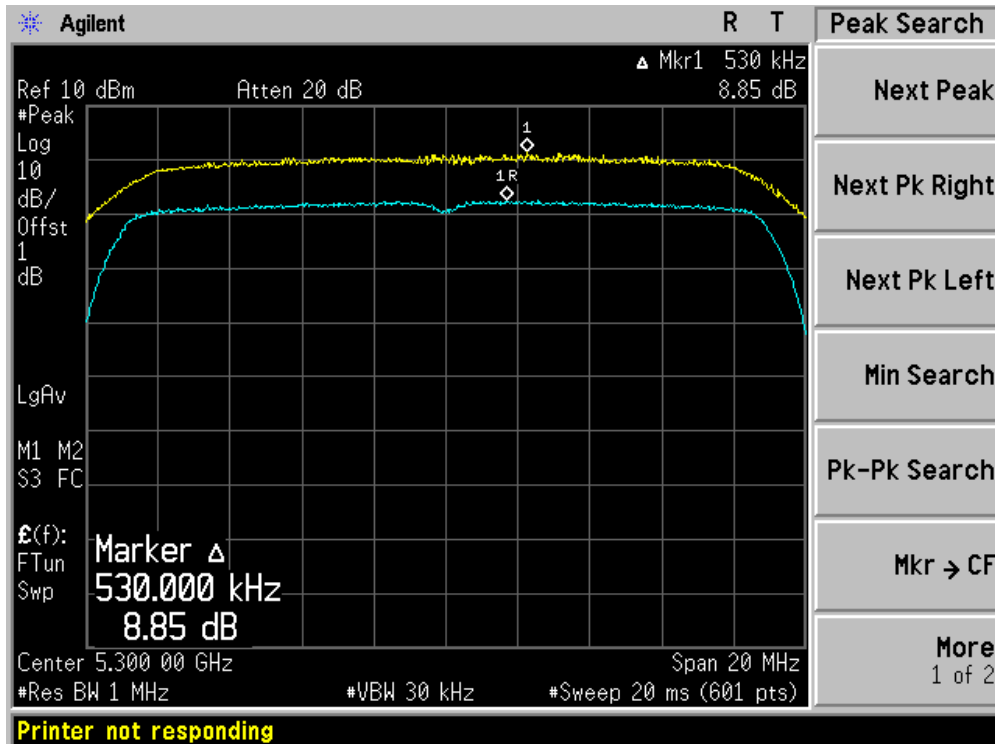
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 100)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
52	5260	8.73	13	Pass
60	5300	8.85	13	Pass
64	5320	8.90	13	Pass

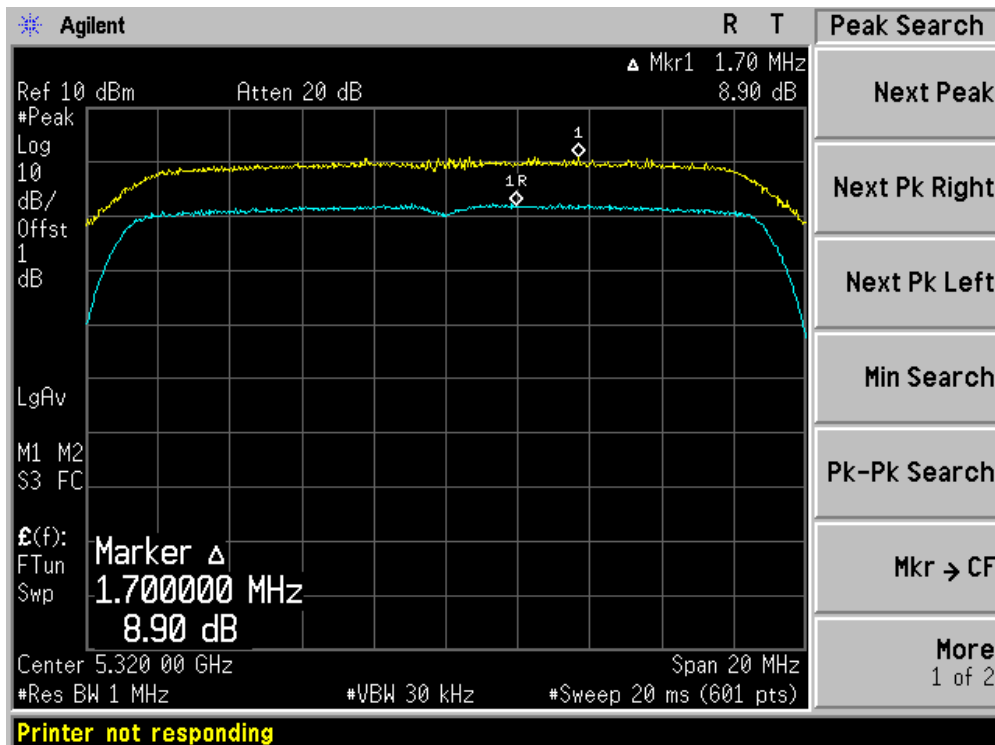
### Channel 52 (5260MHz)



Channel 60 (5300MHz)



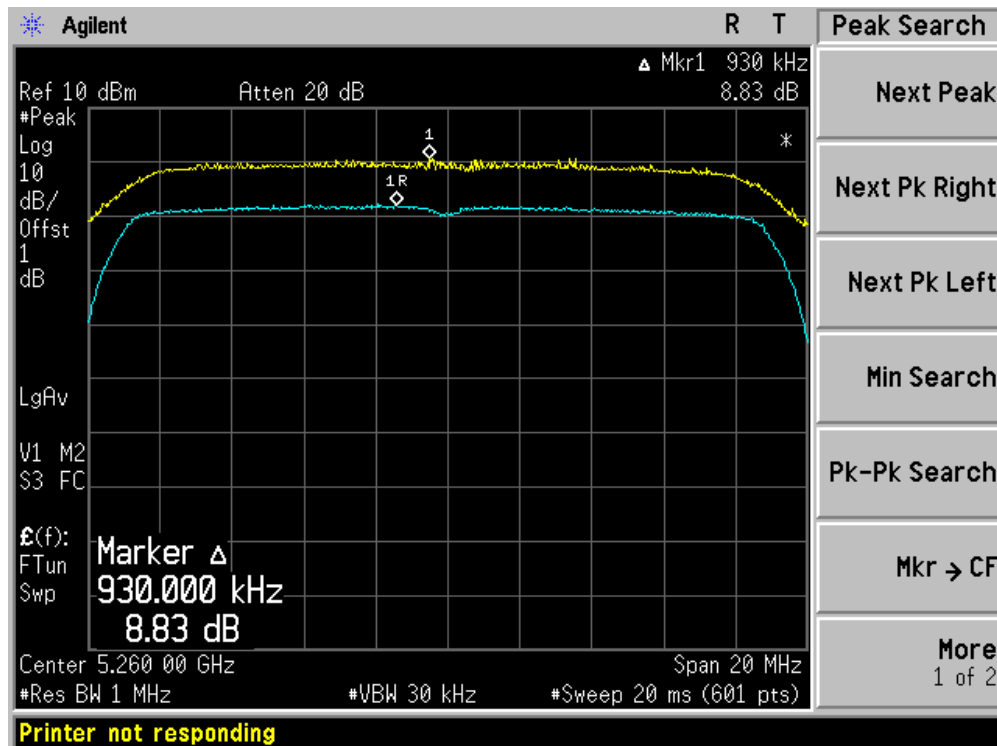
Channel 64 (5320MHz)



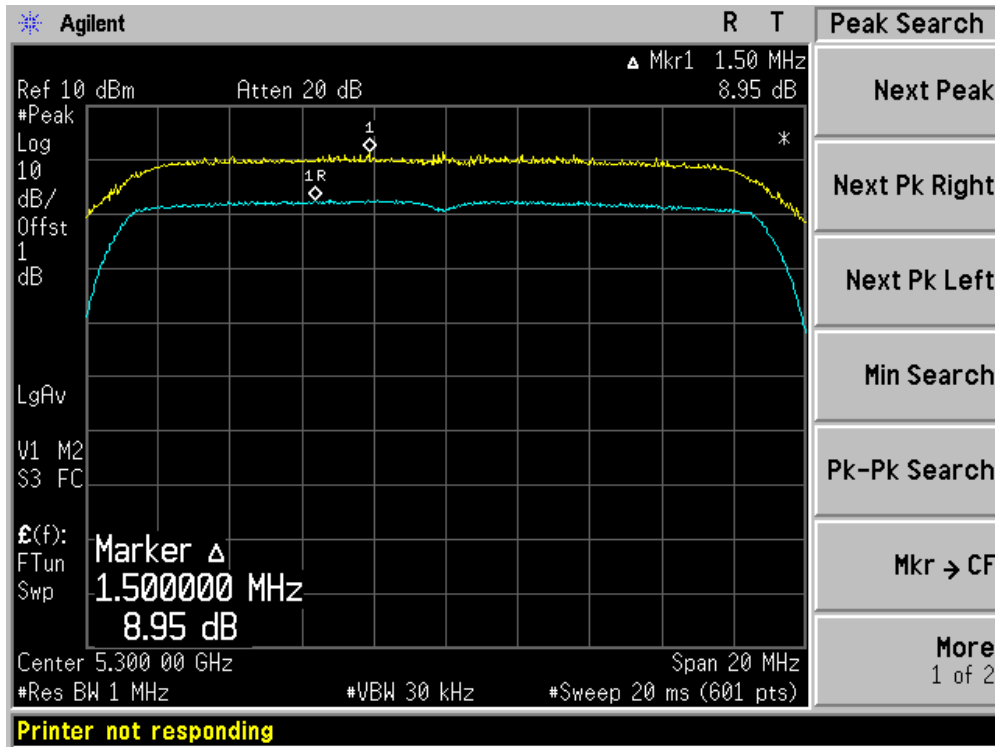
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11n (20MHz) (Chain 001)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
52	5260	8.83	13	Pass
60	5300	8.95	13	Pass
64	5320	8.55	13	Pass

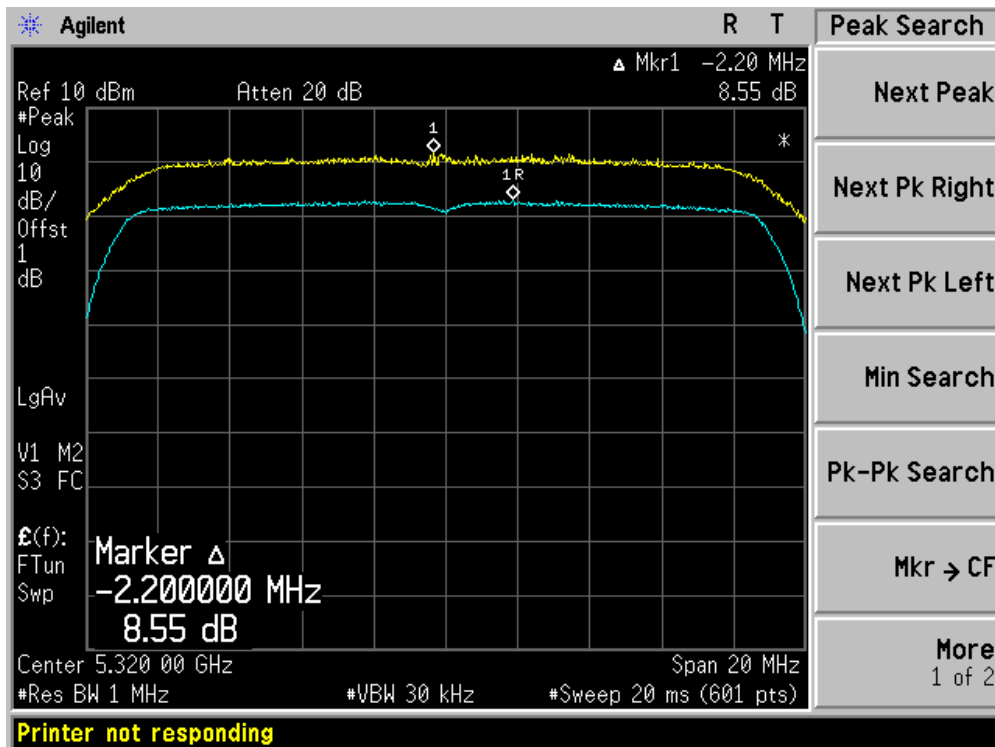
### Channel 52 (5260MHz)



Channel 60 (5300MHz)



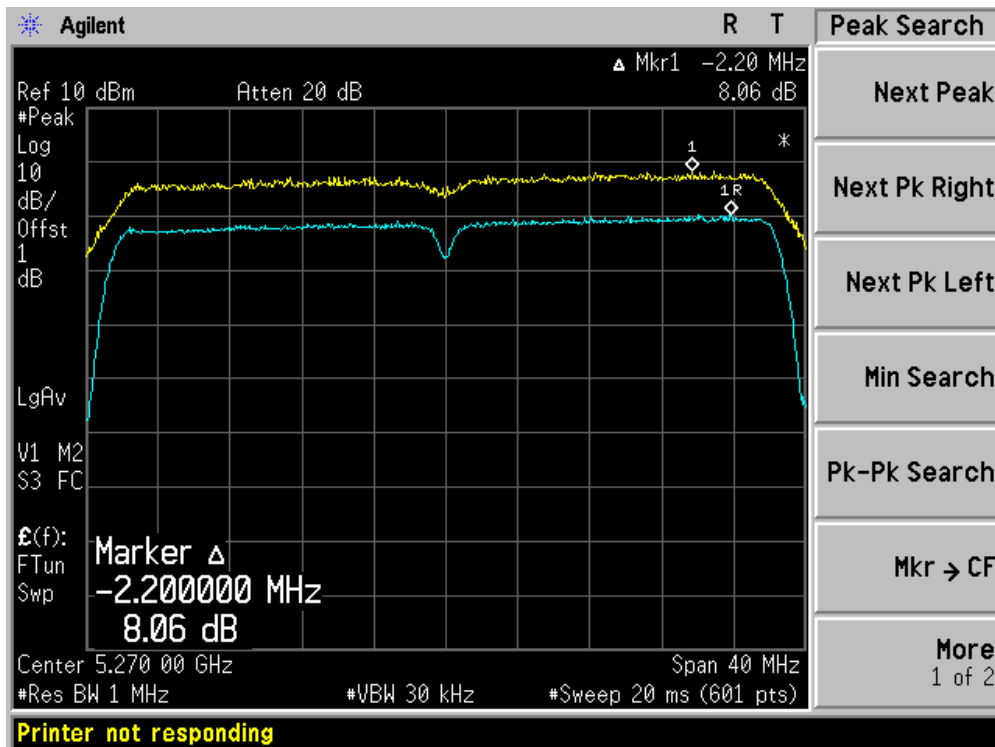
Channel 64 (5320MHz)



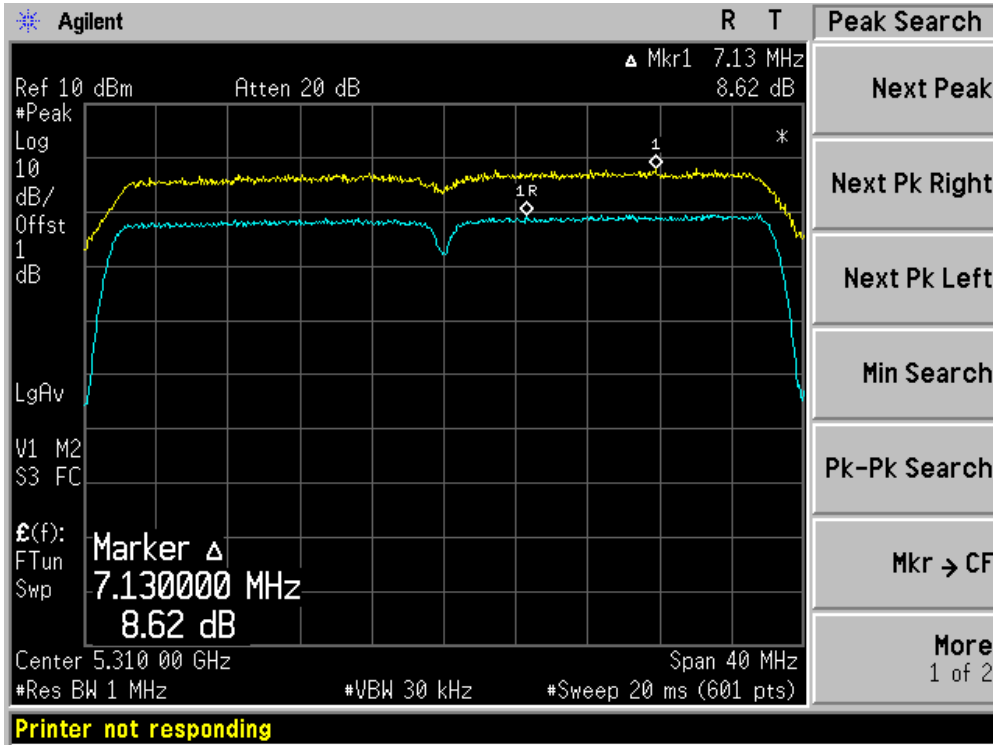
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 100)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
54	5270	8.06	13	Pass
62	5310	8.62	13	Pass

Channel 54 (5270MHz)



Channel 62 (5310MHz)

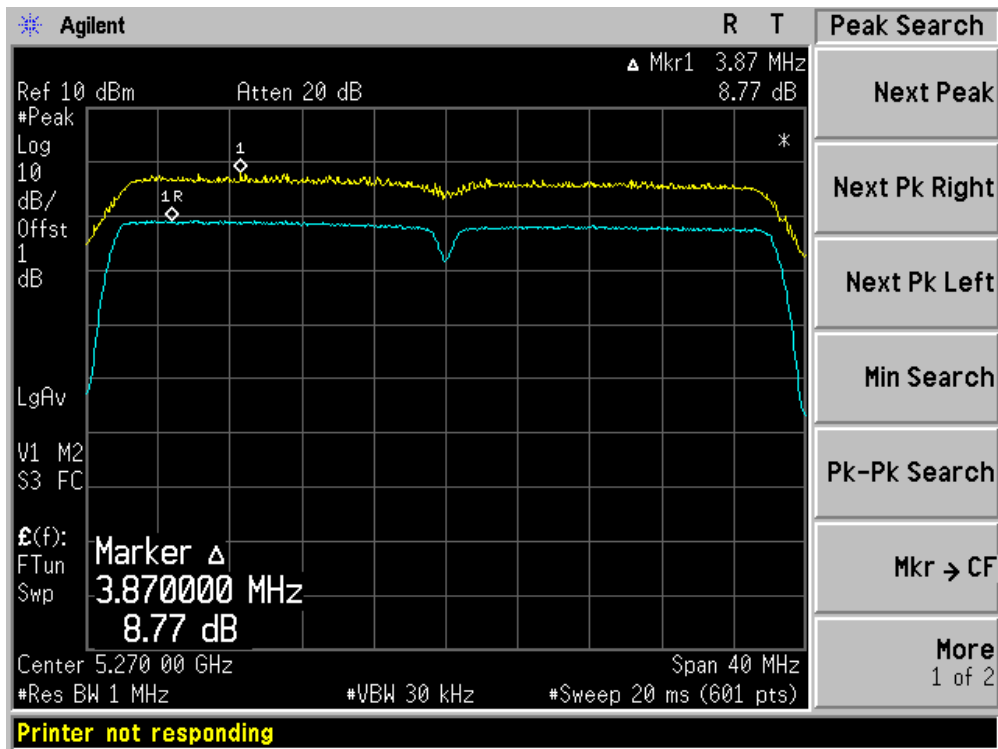




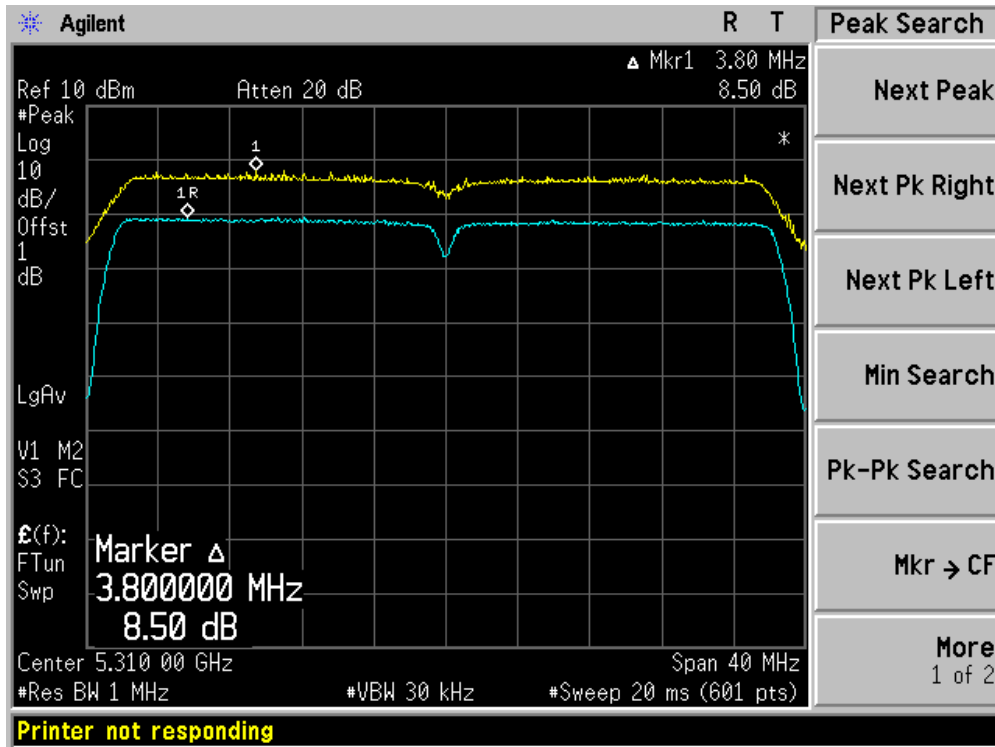
Product	:	Wireless LAN access Point
Test Item	:	Peak Excursion
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (Chain 001)

Channel No.	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Result
54	5270	8.77	13	Pass
62	5310	8.50	13	Pass

### Channel 54 (5270MHz)



Channel 62 (5310MHz)



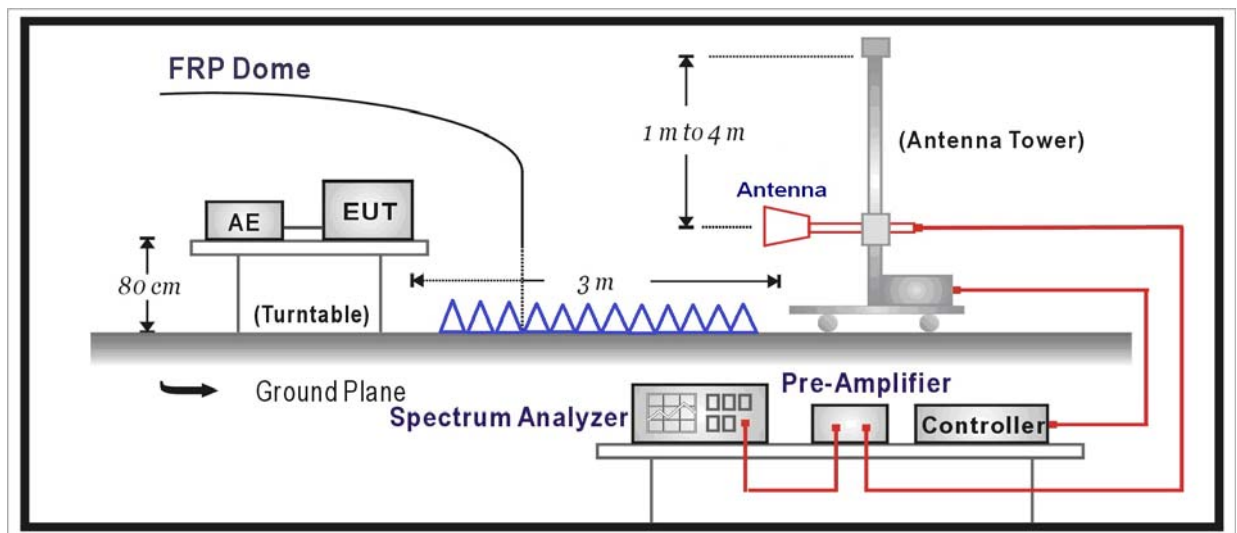
## 10. Radiated Emission Band Edge

### 10.1. Test Equipment

☒ Radiated Emission Band Edge / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2011.04.23
EMI Test Receiver	R&S	ESCI	100573	2011.04.23
Preamplifier	Quietek	AP-025C	CHM-0511006	2012.04.12
Preamplifier	Quietek	AP-180C	CHM-0602013	2012.03.07
Bilog Type Antenna	Schaffner	CBL6112B	2932	2011.10.18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2011.05.05
Temperature/Humidity Meter	zhicheng	ZC1-2	AC5-TH	2012.01.14

### 10.2. Test Setup



### 10.3. Limit

**For 15.205 requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

**For 15.407(b) requirement:**

- For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27dBm/MHz in the 5.15-5.25 GHz band.
- For transmitters operating in the 5.47-5.725 GHz band: all emission outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- For transmitters operating in the 5.725-5.825 GHz band: all emission within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5825	-27 [Note(1)]	68.3
	-17 [Note(2)]	78.3
<p>Note(1): Outside the frequency range 5715 - 5835MHz.</p> <p>Note(2): Within the frequency range from the band edge to 10MHz below or above the band edge, 5715 – 5725MHz and 5825 - 5835MHz.</p>		

**10.4. Test Procedure**

The EUT was tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.407 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

**10.5. Uncertainty**

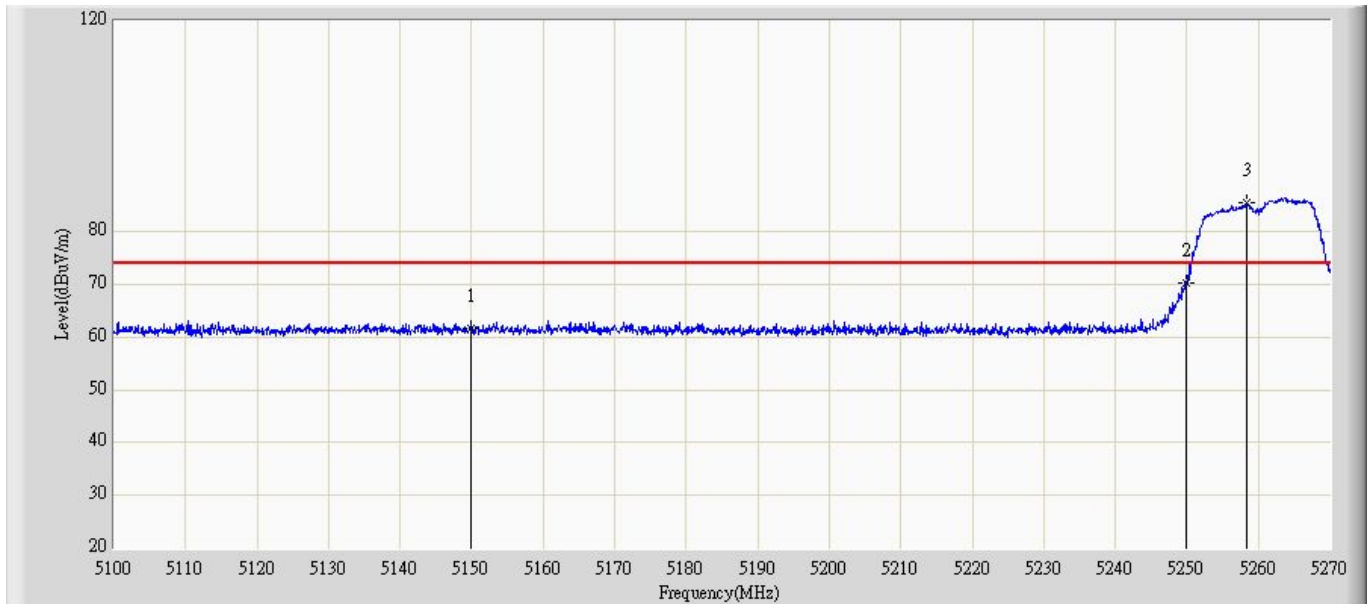
The measurement uncertainty above 1GHz is defined as  $\pm 3.9$  dB

## 10.6. Test Result

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

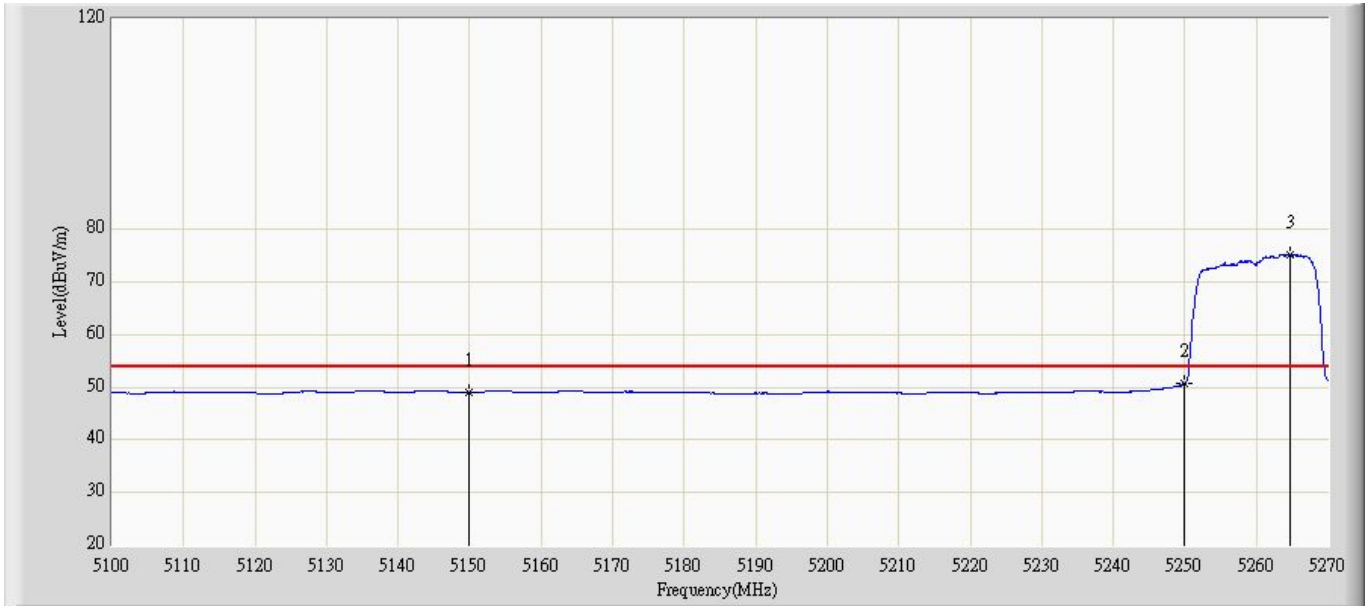
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Engineer: Aileen	
Site: AC5	Time: 2011/04/03 - 14:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 100)	



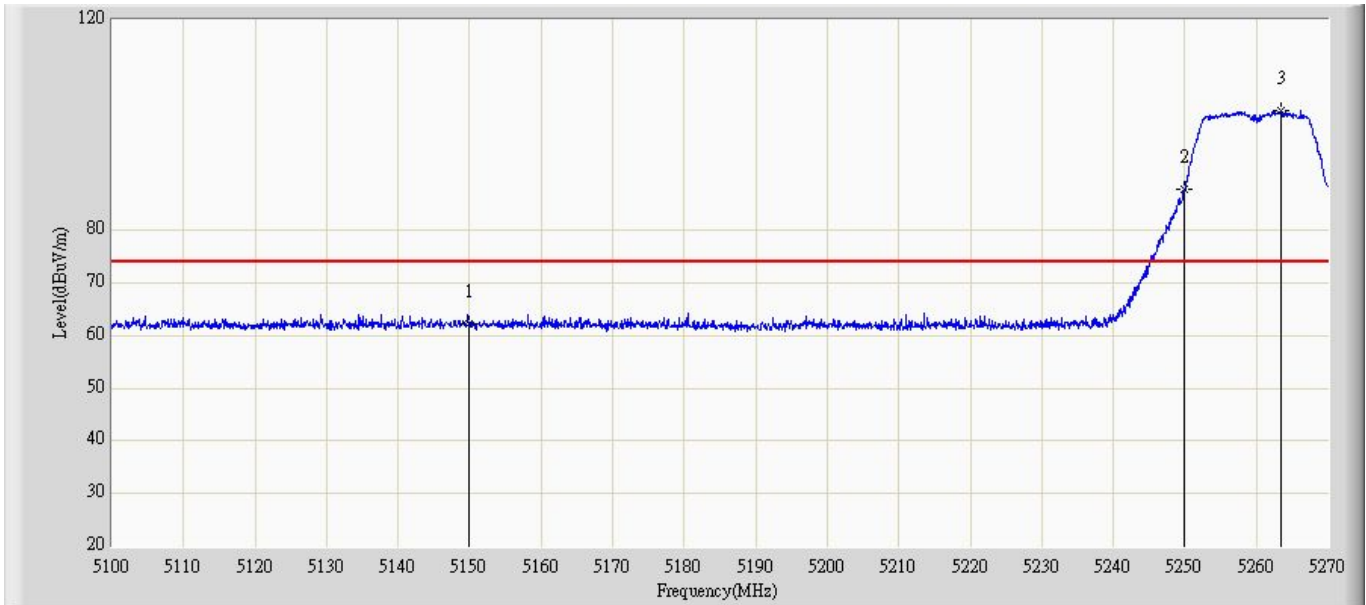
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.588	70.172	-12.412	74.000	-8.584	PK
2			5250.000	70.305	78.760	-17.995	88.300	-8.455	PK
3		*	5258.440	85.422	93.935	N/A	N/A	-8.514	PK

Engineer: Aileen	
Site: AC5	Time: 2011/06/27 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 100)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.001	57.585	-4.999	54.000	-8.584	AV
2			5250.000	50.789	59.244	-17.511	68.300	-8.455	AV
3		*	5264.730	75.151	83.707	N/A	N/A	-8.555	AV

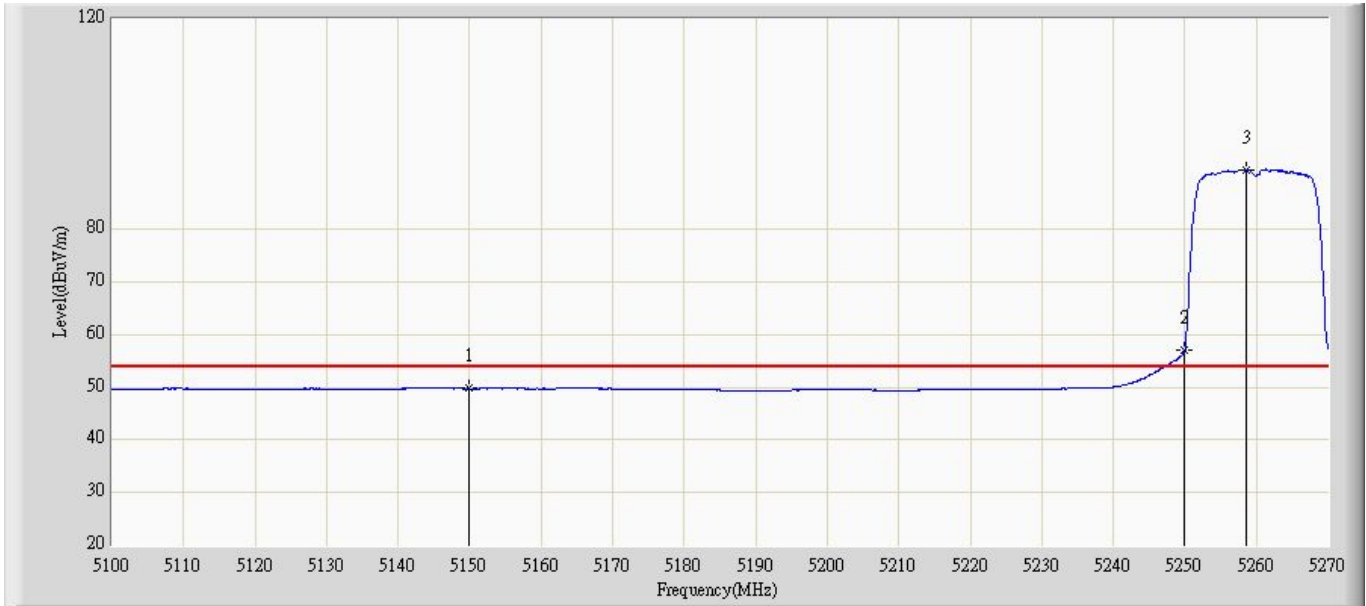
Engineer: Aileen	
Site: AC5	Time: 2011/06/27 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 100)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.334	70.958	-11.666	74.000	-8.624	PK
2			5250.000	86.133	94.788	-2.167	88.300	-8.655	PK
3		*	5263.370	102.646	111.387	N/A	N/A	-8.741	PK

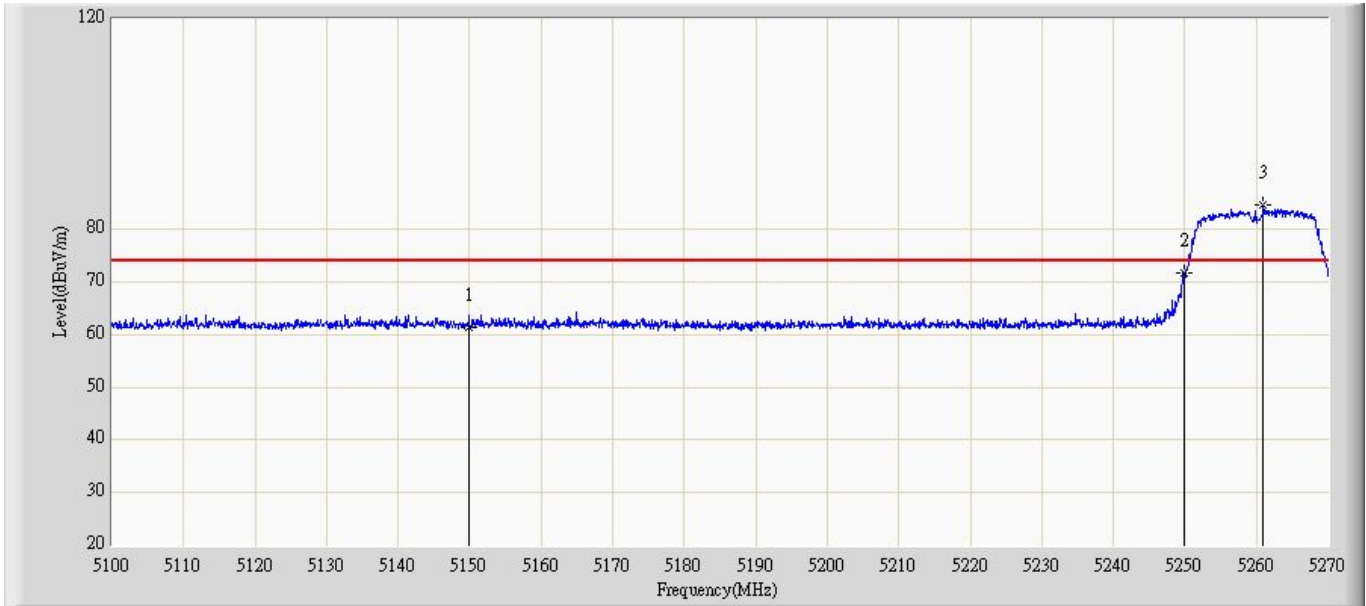


Engineer: Aileen	
Site: AC5	Time: 2011/06/27 - 11:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 100)	



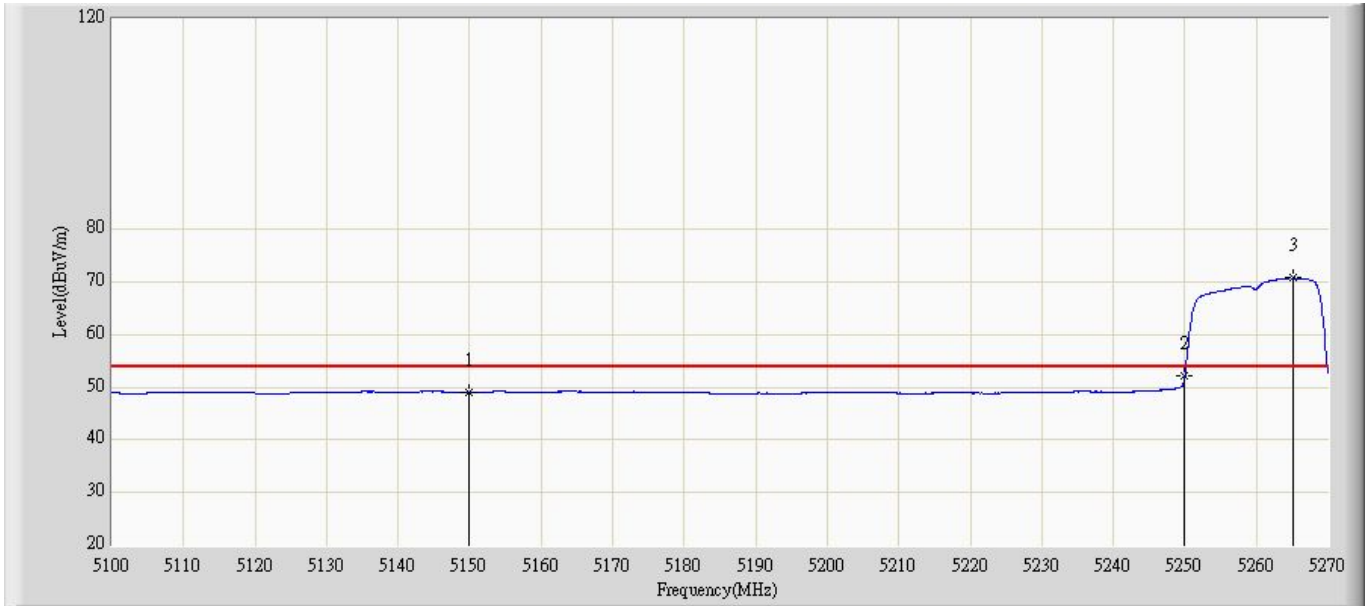
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.743	58.367	-4.257	54.000	-8.624	AV
2			5250.000	56.963	65.618	-11.337	68.300	-8.655	AV
3		*	5258.525	91.273	99.983	N/A	N/A	-8.709	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 100)	



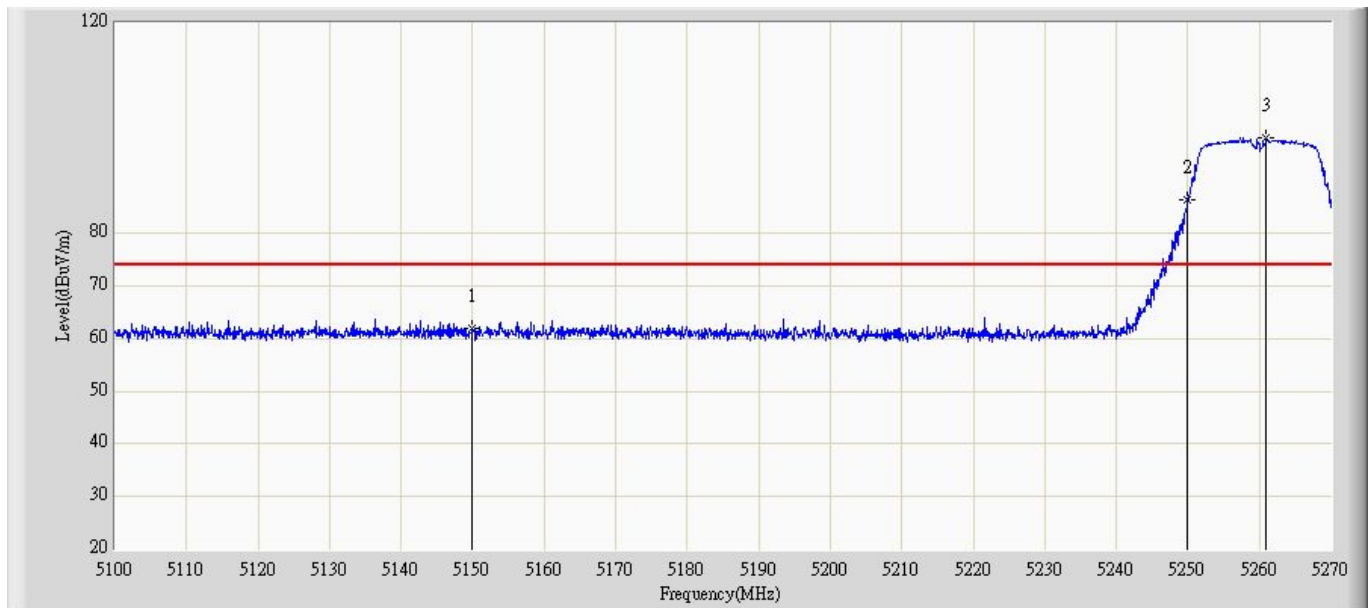
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.276	69.860	-12.724	74.000	-8.584	PK
2			5250.000	71.628	80.083	-16.672	88.300	-8.455	PK
3		*	5260.990	84.612	93.142	N/A	N/A	-8.529	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 100)	



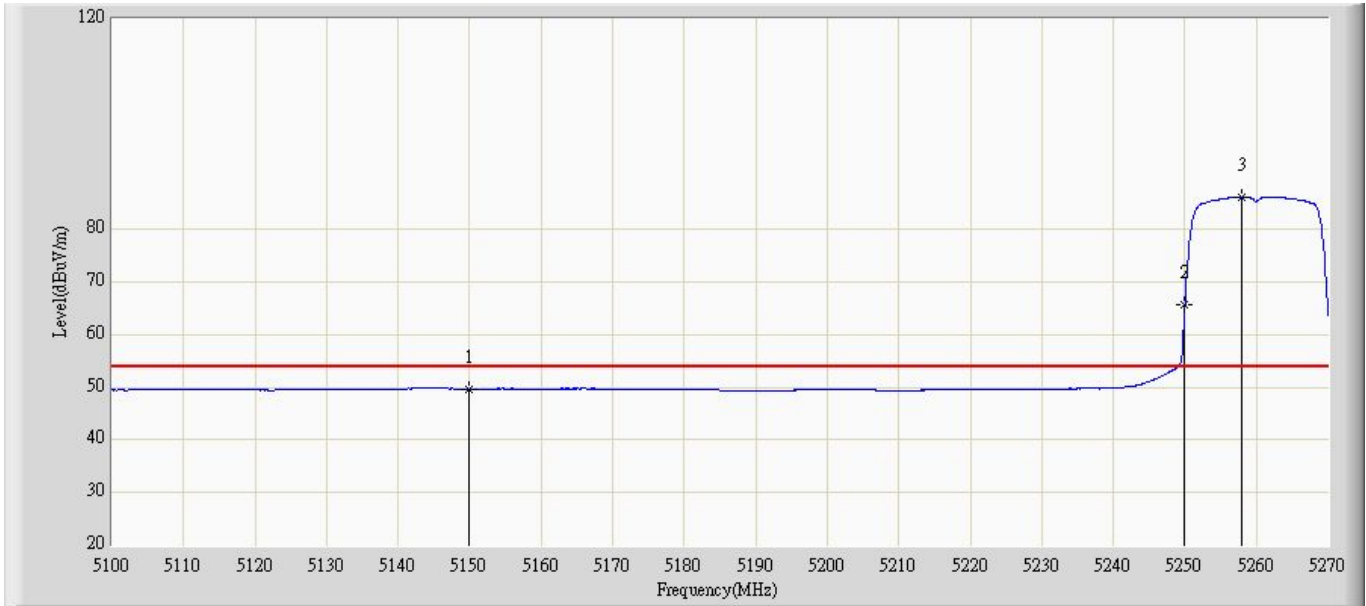
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	48.940	57.524	-5.060	54.000	-8.584	AV
2			5250.000	52.088	60.543	-16.212	68.300	-8.455	AV
3		*	5265.155	70.722	79.280	N/A	N/A	-8.559	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 100)	



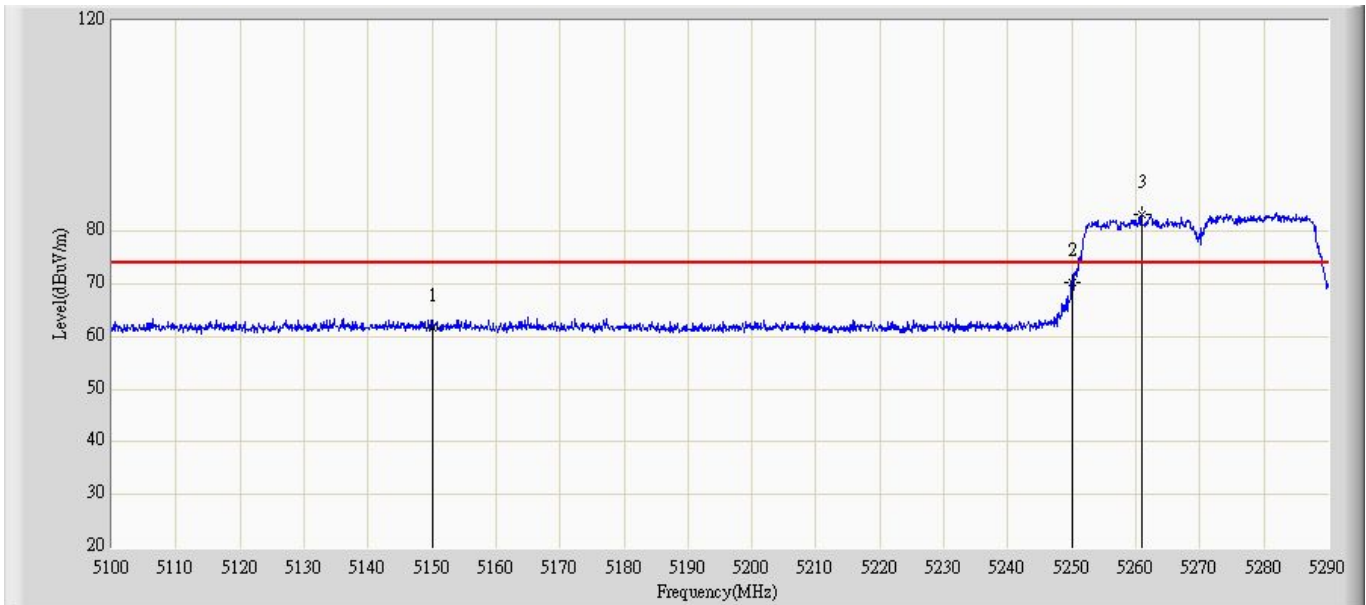
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.889	70.513	-12.111	74.000	-8.624	PK
2			5250.000	86.223	94.878	-2.077	88.300	-8.655	PK
3		*	5260.905	98.133	106.858	N/A	N/A	-8.725	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 100)	



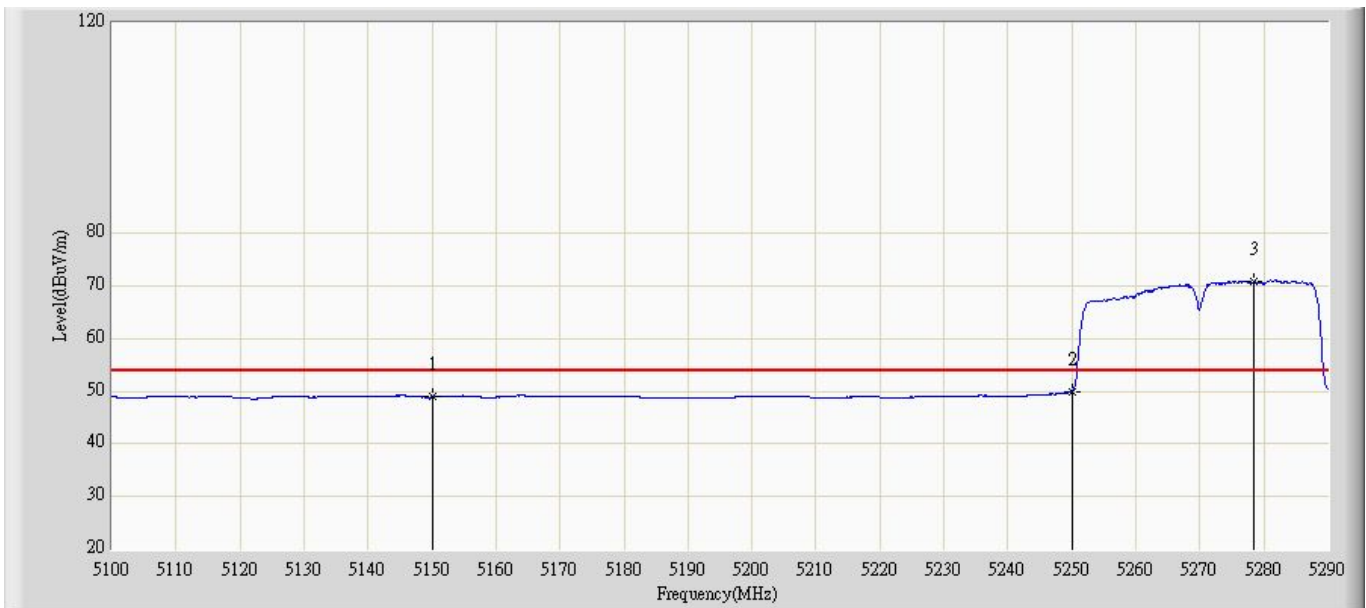
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.683	58.307	-4.317	54.000	-8.624	AV
2			5250.000	65.653	74.308	-2.647	68.300	-8.655	AV
3		*	5258.015	86.146	94.852	N/A	N/A	-8.706	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 100)	



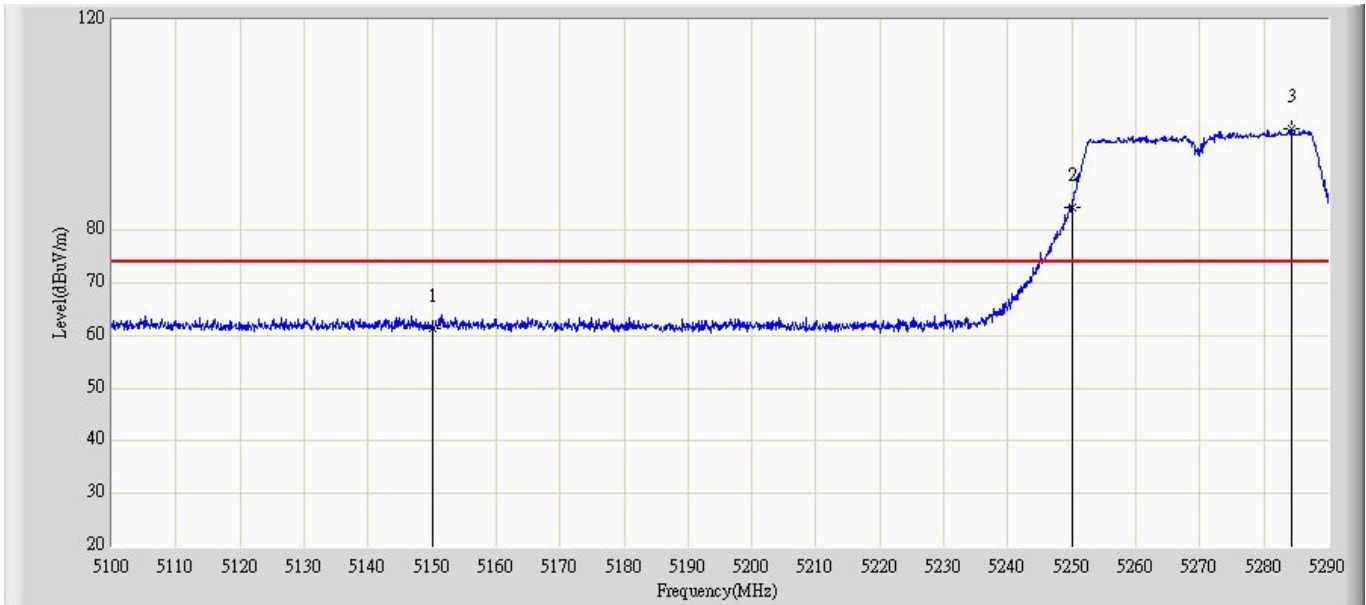
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.649	104.273	-12.351	74.000	-42.624	PK
2			5250.000	70.372	113.027	-17.928	88.300	-42.655	PK
3		*	5260.835	83.209	125.942	N/A	N/A	-42.733	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 100)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	48.900	57.484	-5.100	54.000	-8.584	AV
2			5250.000	49.961	58.416	-18.339	68.300	-8.455	AV
3		*	5278.315	70.790	79.300	N/A	N/A	-8.510	AV

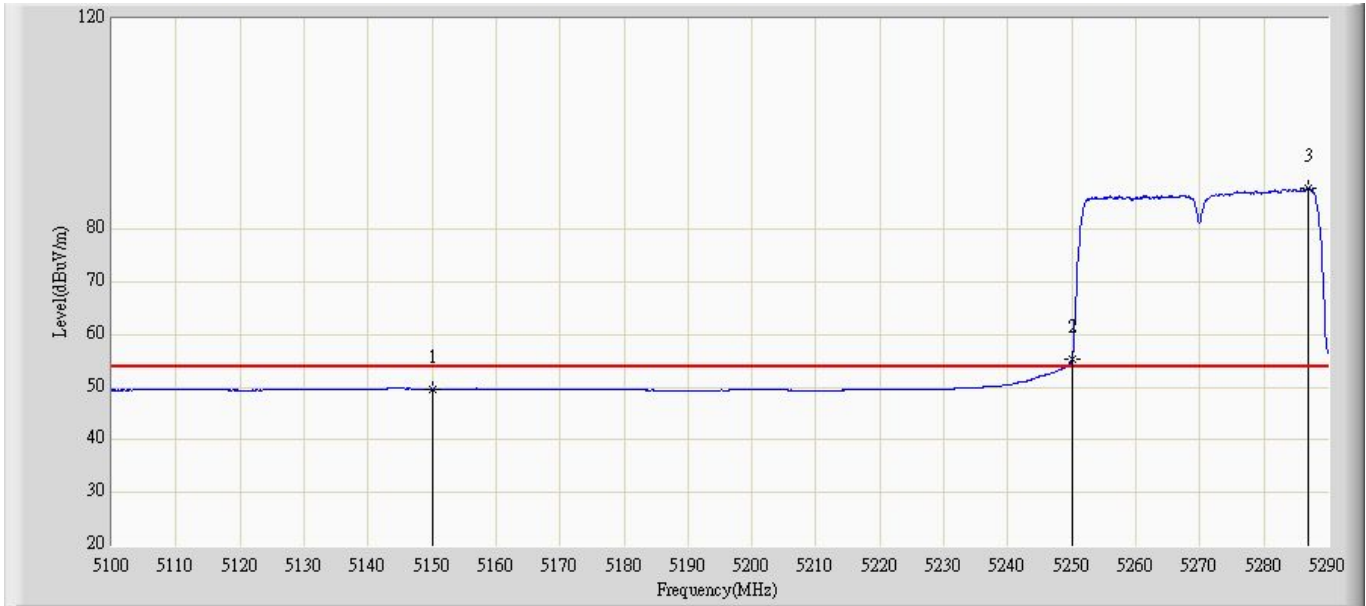
Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 100)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.393	70.017	-12.607	74.000	-8.624	PK
2			5250.000	84.493	93.148	-3.807	88.300	-8.655	PK
3		*	5284.300	99.292	107.959	N/A	N/A	-8.668	PK

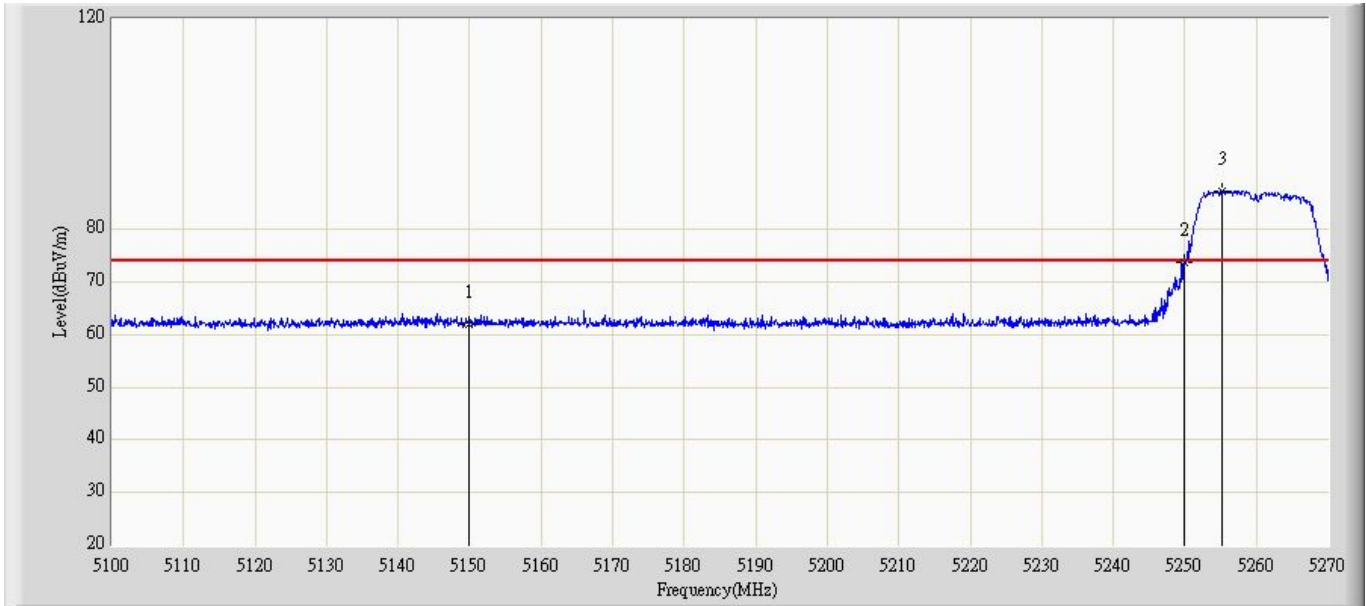


Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 100)	



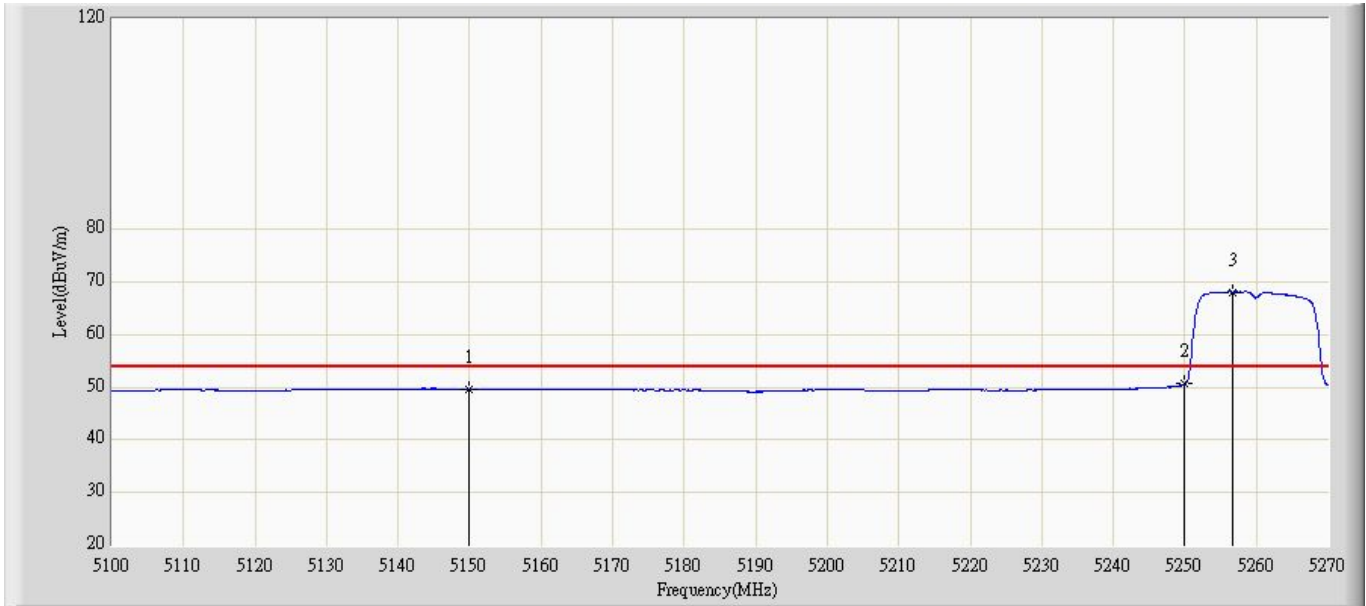
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.632	58.256	-4.368	54.000	-8.624	AV
2			5250.000	55.204	63.859	-13.096	68.300	-8.655	AV
3		*	5286.960	87.870	96.540	N/A	N/A	-8.670	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 001)	



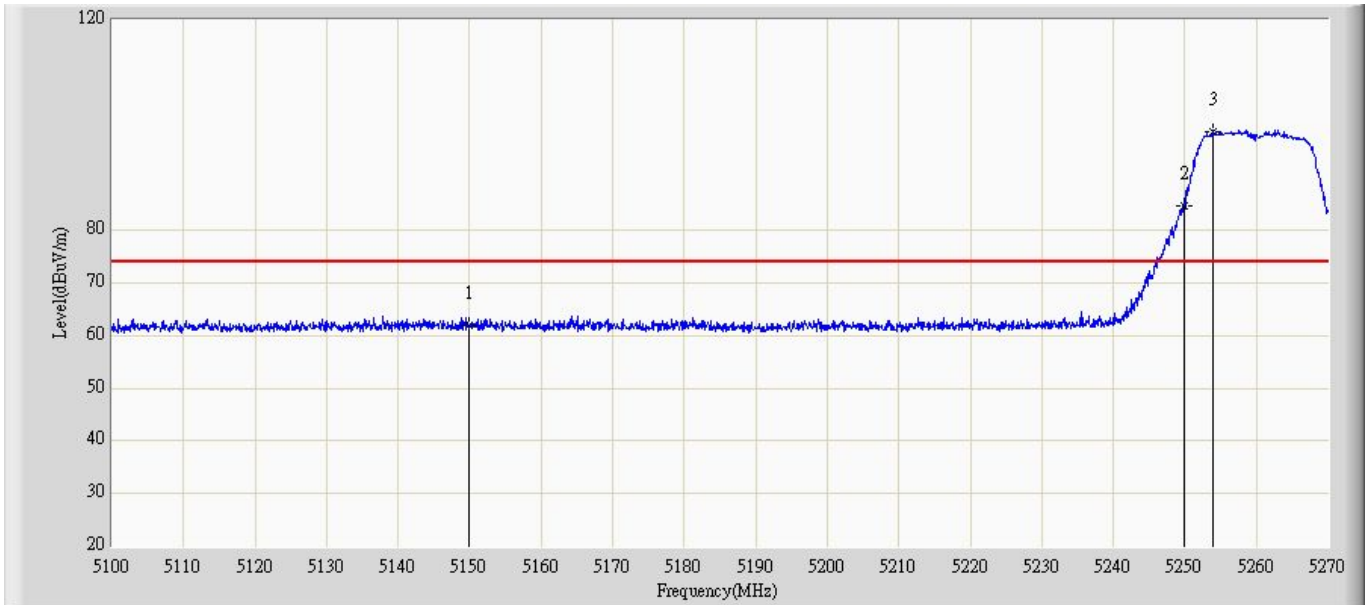
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.969	70.553	-12.031	74.000	-8.584	PK
2			5250.000	73.676	82.131	-14.624	88.300	-8.455	PK
3		*	5255.295	87.249	95.740	N/A	N/A	-8.491	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 001)	



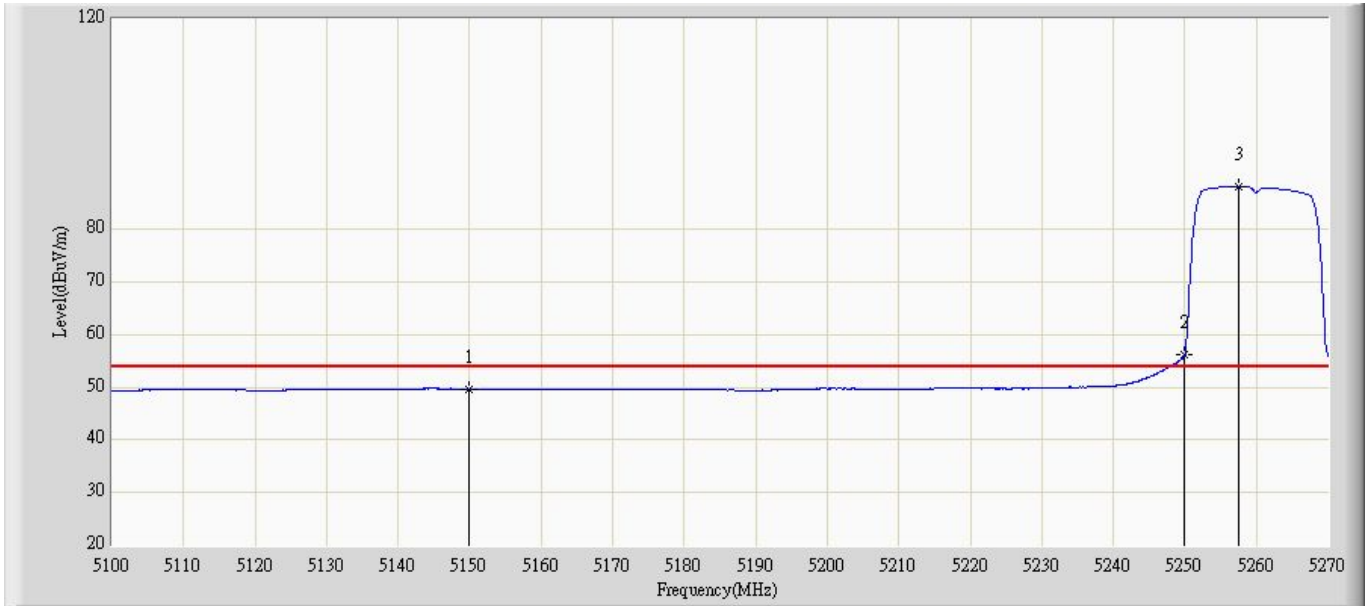
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.611	58.195	-4.389	54.000	-8.584	AV
2			5250.000	50.661	59.116	-17.639	68.300	-8.455	AV
3		*	5256.655	68.093	76.593	N/A	N/A	-8.500	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 001)	



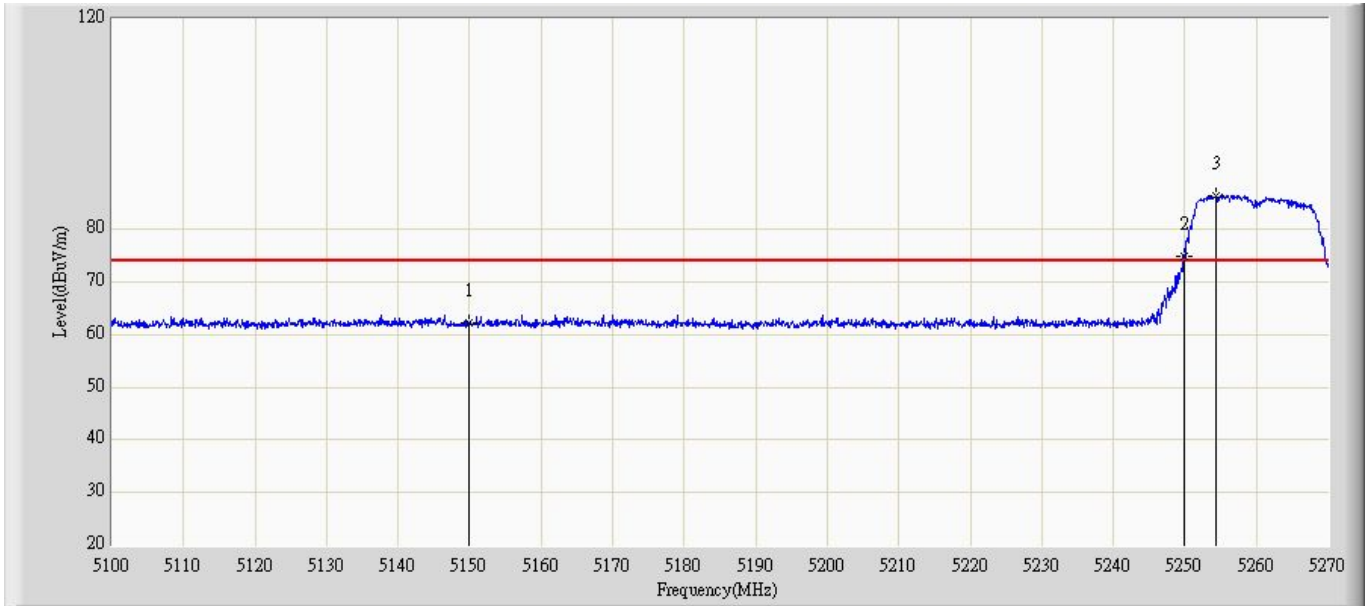
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.088	70.712	-11.912	74.000	-8.624	PK
2			5250.000	84.764	93.419	-3.536	88.300	-8.655	PK
3		*	5253.935	98.877	107.557	N/A	N/A	-8.681	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5260MHz By 802.11a (Chain 001)	



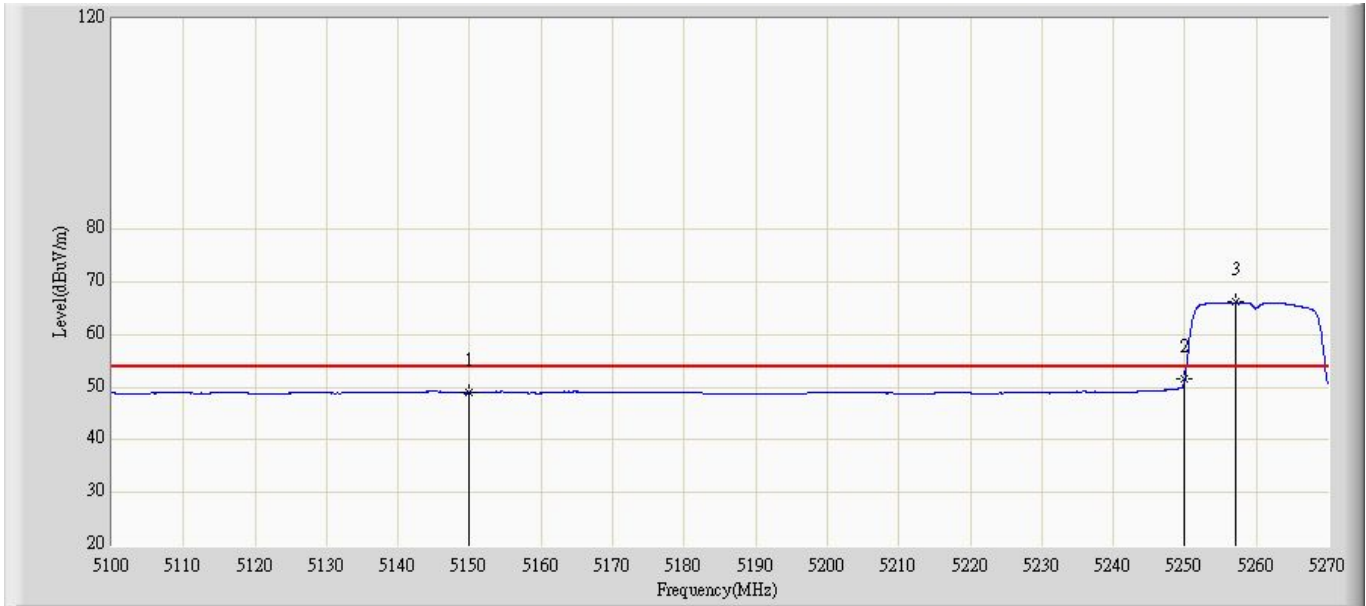
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.639	58.263	-4.361	54.000	-8.624	AV
2			5250.000	56.228	64.883	-12.072	68.300	-8.655	AV
3		*	5257.505	88.130	96.833	N/A	N/A	-8.703	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 001)	



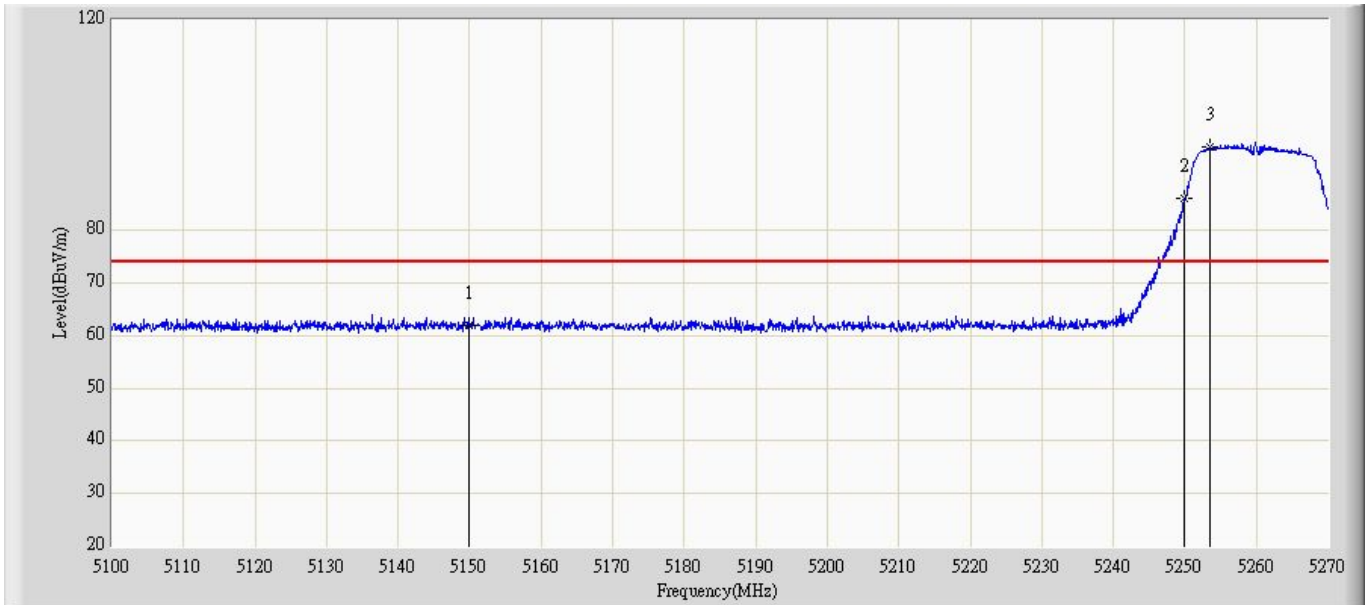
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.155	70.739	-11.845	74.000	-8.584	PK
2			5250.000	74.973	83.428	-13.327	88.300	-8.455	PK
3		*	5254.275	86.349	94.833	N/A	N/A	-8.484	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 001)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	48.915	57.499	-5.085	54.000	-8.584	AV
2			5250.000	51.496	59.951	-16.804	68.300	-8.455	AV
3		*	5257.165	66.127	74.631	N/A	N/A	-8.504	AV

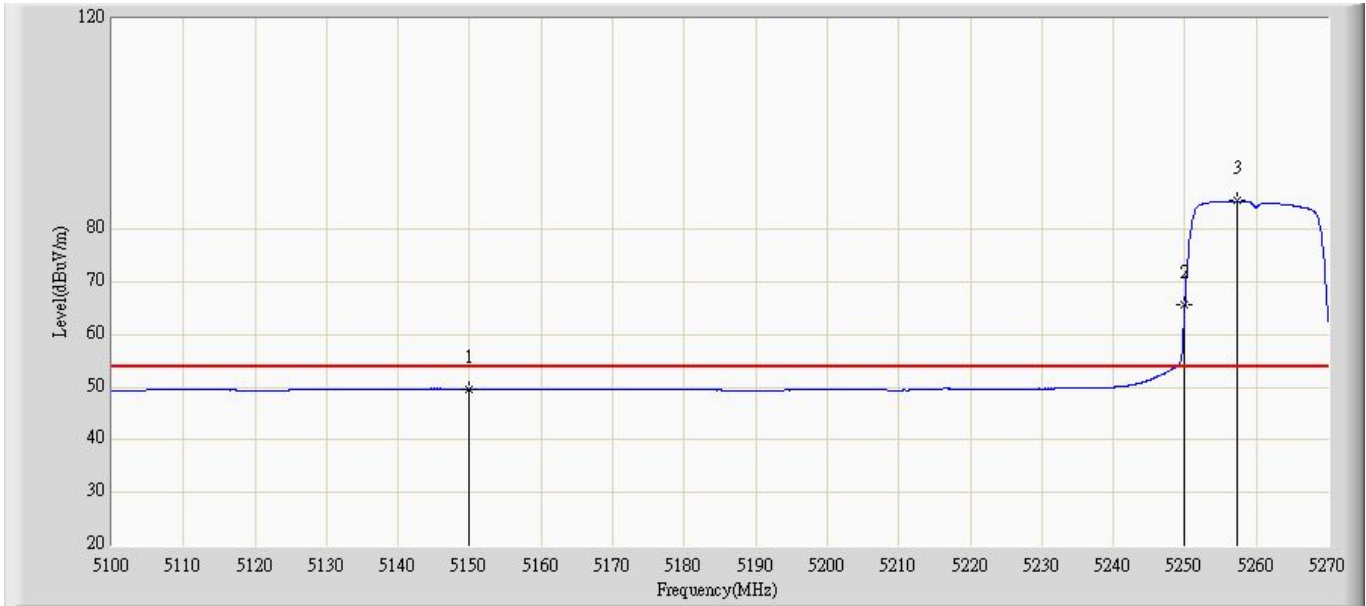
Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 001)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.051	70.675	-11.949	74.000	-8.624	PK
2			5250.000	86.035	94.690	-2.265	88.300	-8.655	PK
3		*	5253.510	95.997	104.675	N/A	N/A	-8.677	PK

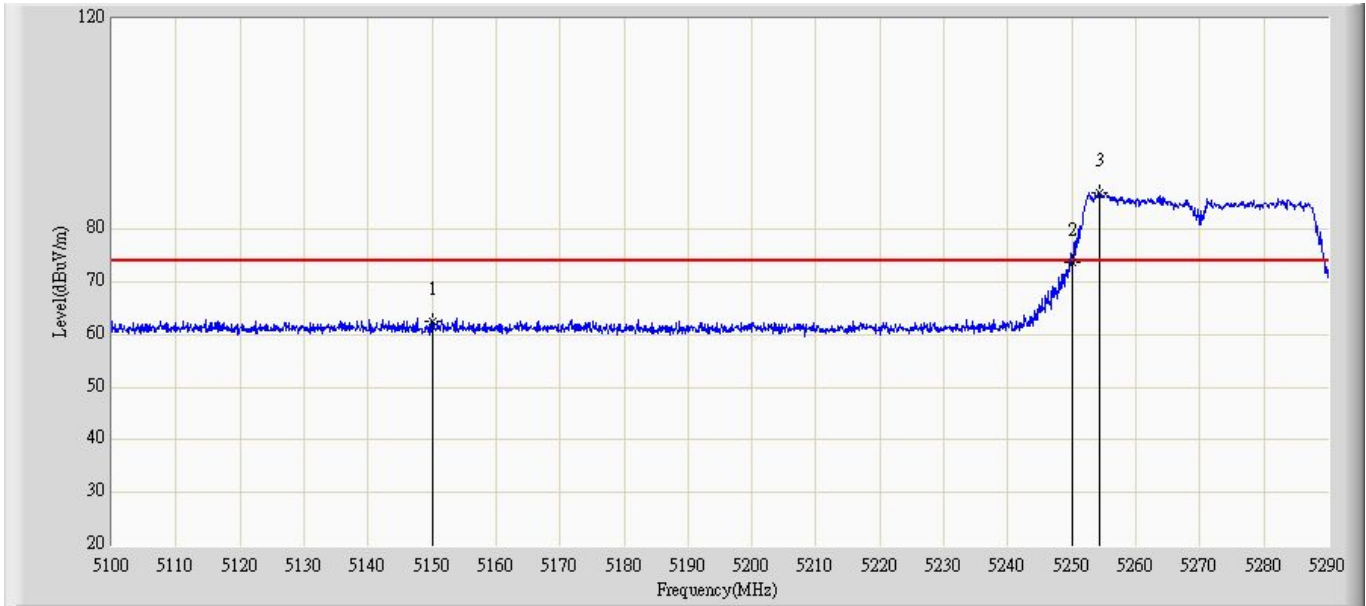


Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz By 802.11n(20MHz) (Chain 001)	



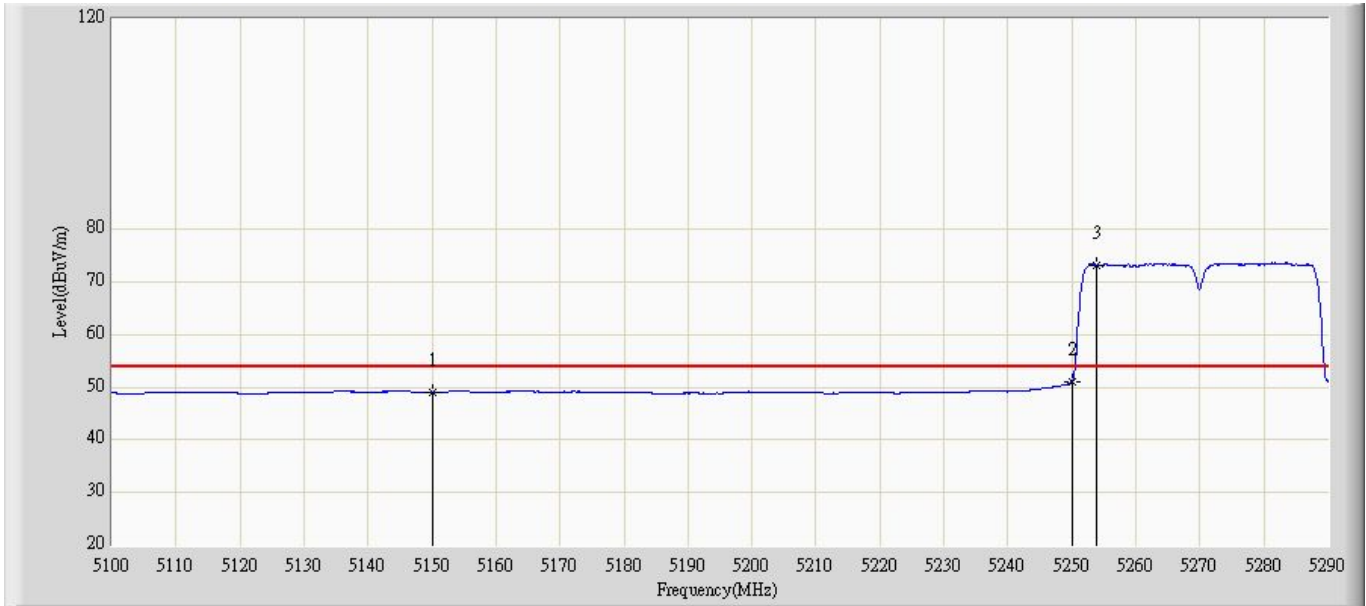
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.610	58.234	-4.390	54.000	-8.624	AV
2			5250.000	65.830	74.485	-2.47	68.300	-8.655	AV
3		*	5257.250	85.378	94.079	N/A	N/A	-8.701	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 001)	



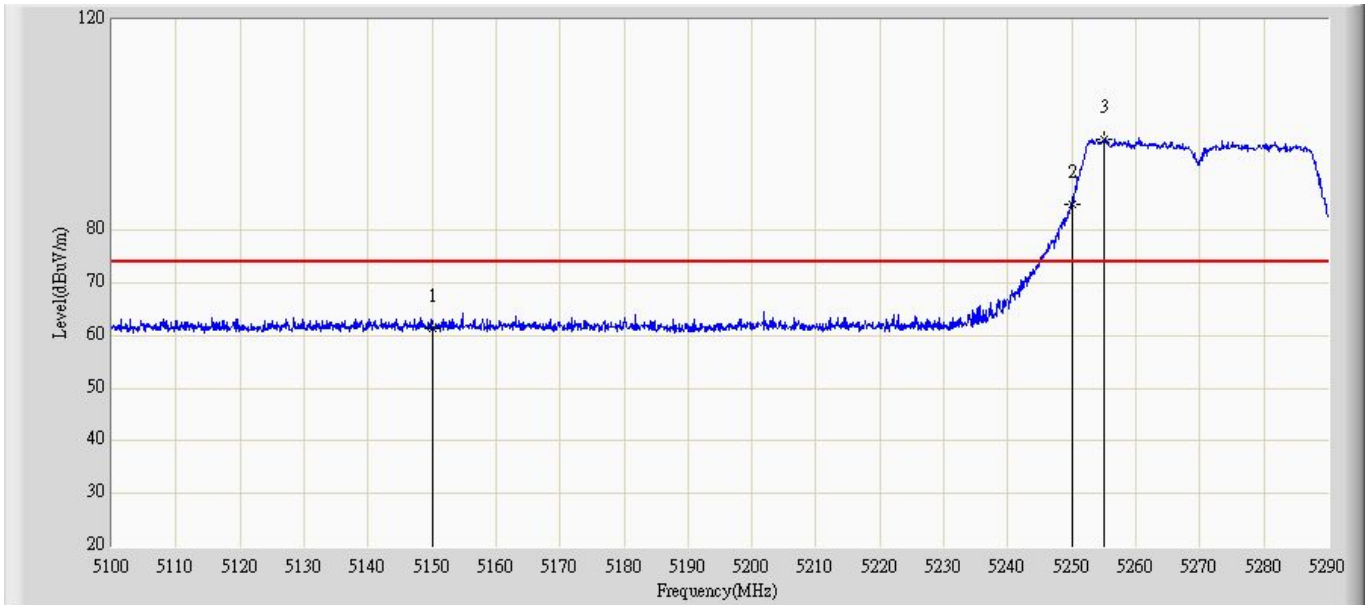
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.409	70.993	-11.591	74.000	-8.584	PK
2			5250.000	73.865	82.320	-14.435	88.300	-8.455	PK
3		*	5254.375	86.944	95.429	N/A	N/A	-8.485	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 001)	



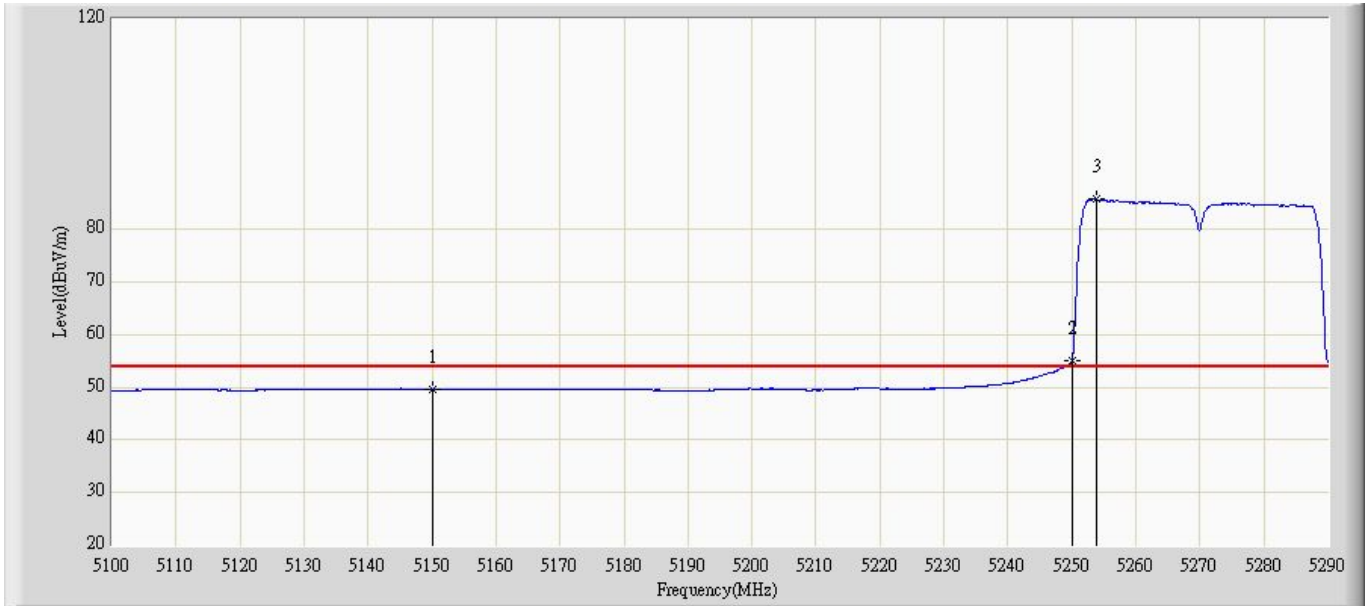
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	48.994	57.578	-5.006	54.000	-8.584	AV
2			5250.000	51.069	59.524	-17.231	68.300	-8.455	AV
3		*	5253.900	73.269	81.751	N/A	N/A	-8.481	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz By 802.11n(40MHz) (Chain 001)	



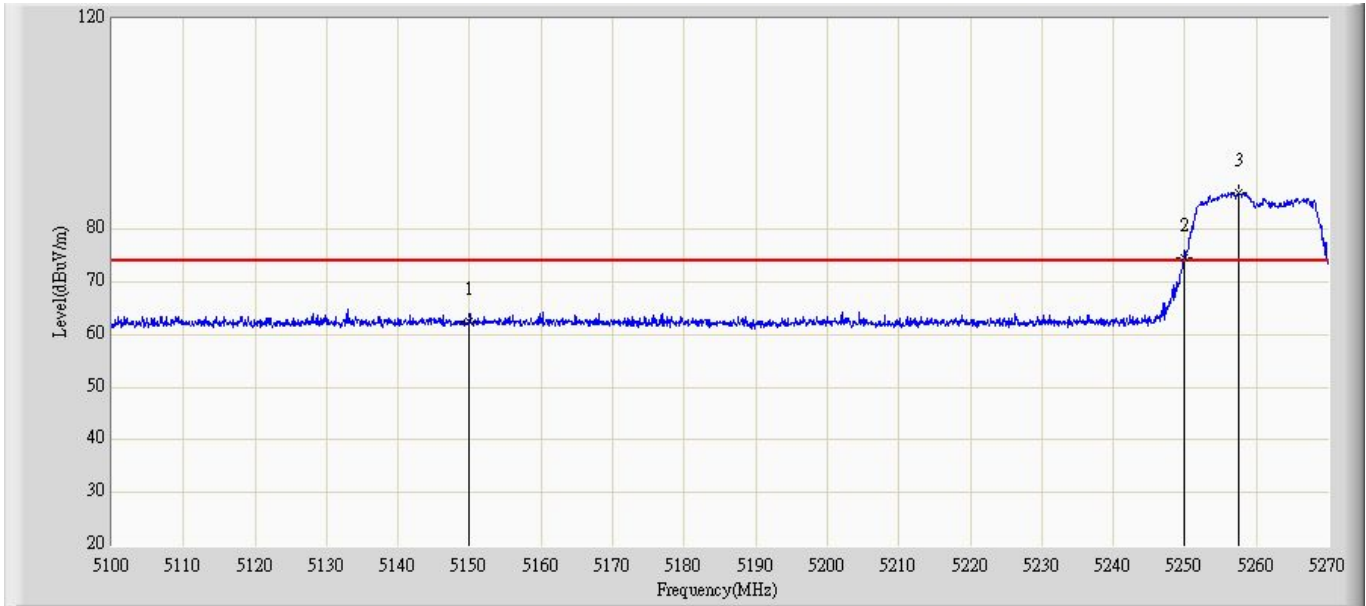
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	61.370	69.994	-12.630	74.000	-8.624	PK
2			5250.000	84.984	93.639	-3.316	88.300	-8.655	PK
3		*	5255.040	97.197	105.884	N/A	N/A	-8.687	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz by 802.11n(40MHz) (Chain 001)	



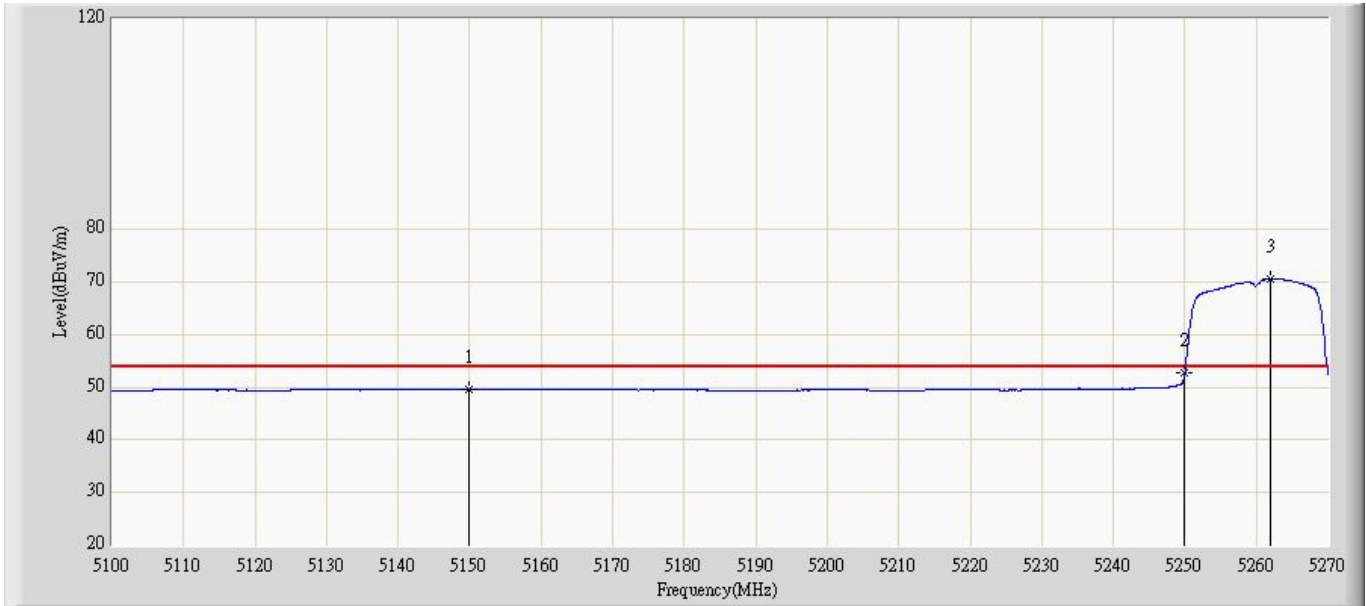
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.572	58.196	-4.428	54.000	-8.624	AV
2			5250.000	55.137	63.792	-13.163	68.300	-8.655	AV
3		*	5253.805	85.702	94.381	N/A	N/A	-8.680	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz by 802.11n(20MHz) (Chain 101)	



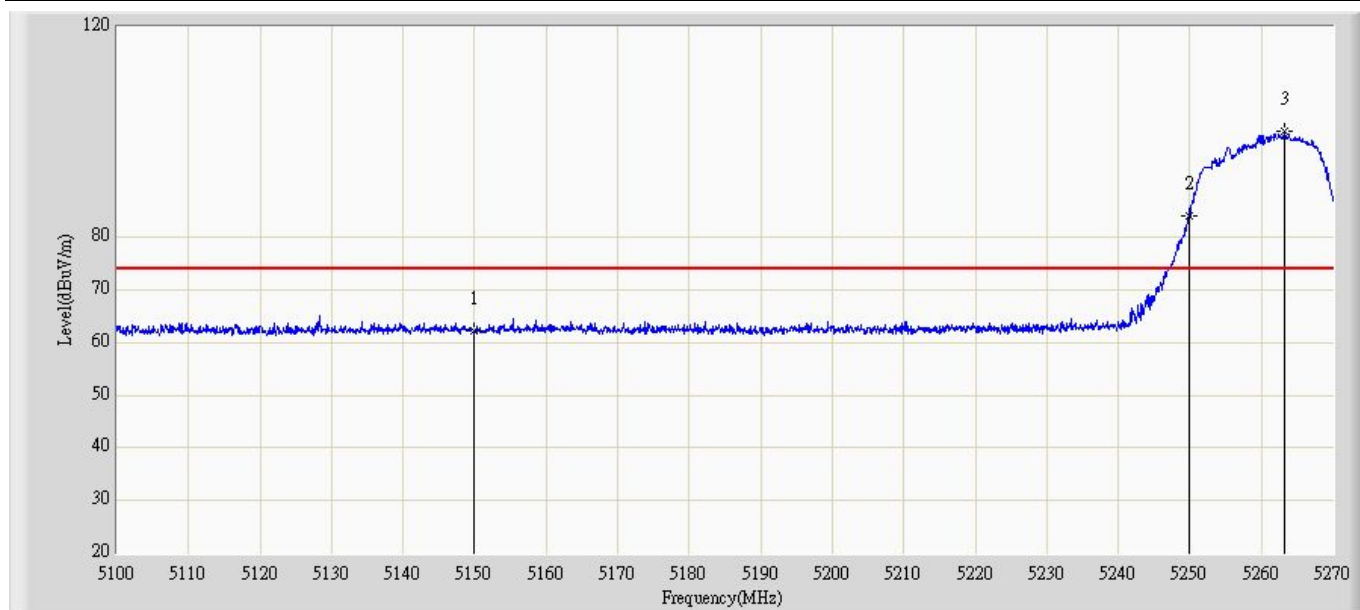
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.539	71.123	-11.461	74.000	-8.584	PK
2			5250.000	74.666	83.121	-13.634	88.300	-8.455	PK
3		*	5257.590	86.890	95.397	N/A	N/A	-8.507	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz by 802.11n(20MHz) (Chain 101)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.547	58.131	-4.453	54.000	-8.584	AV
2			5250.000	52.709	61.164	-15.591	68.300	-8.455	AV
3		*	5262.010	70.508	79.045	N/A	N/A	-8.537	AV

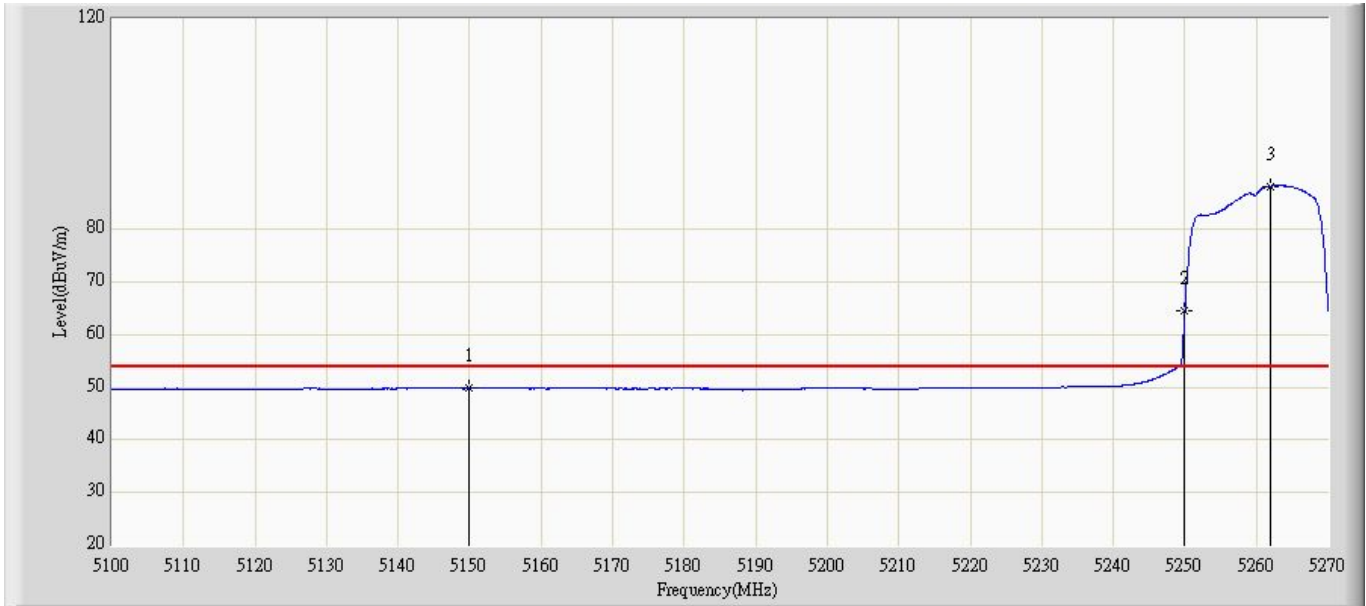
Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz by 802.11n(20MHz) (Chain 101)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.168	70.792	-11.832	74.000	-8.624	PK
2			5250.000	84.157	92.812	-4.143	88.300	-8.655	PK
3		*	5263.285	100.222	108.962	N/A	N/A	-8.740	PK

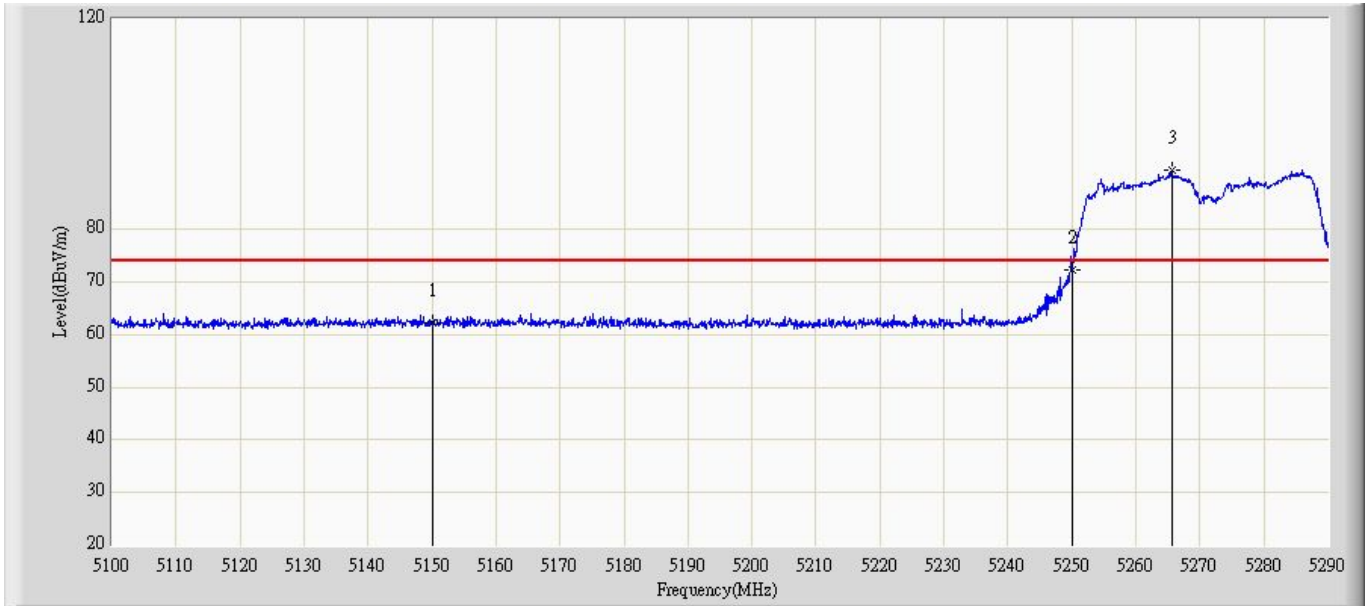


Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5260MHz by 802.11n(20MHz) (Chain 101)	



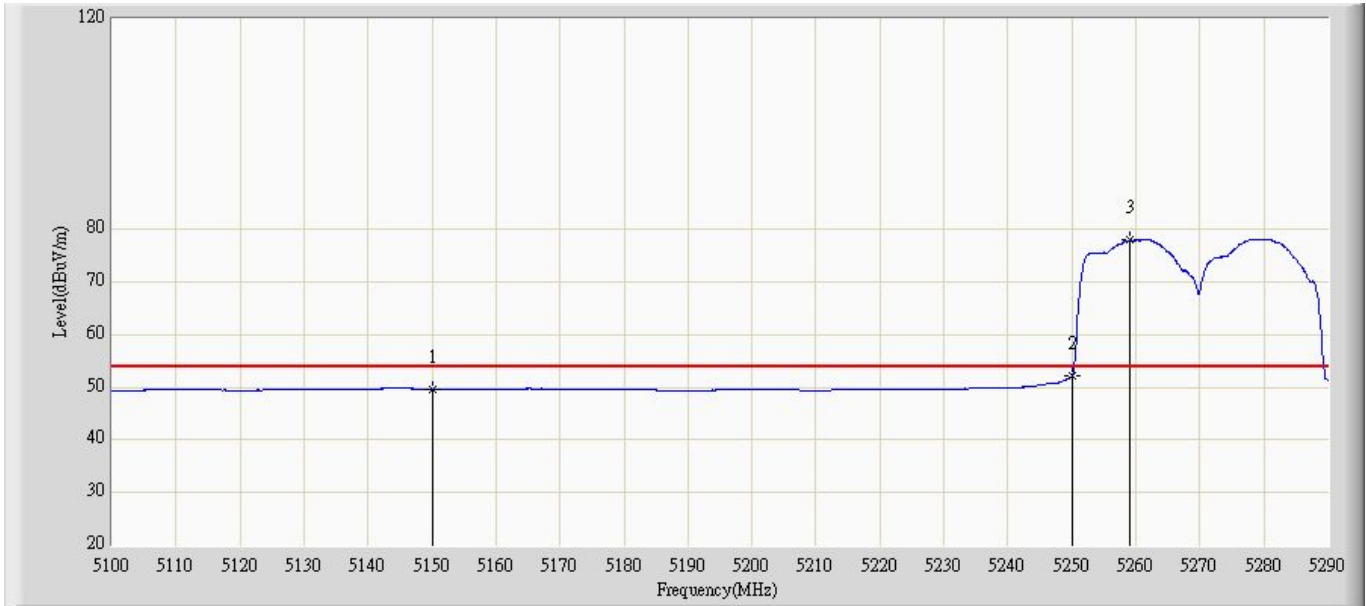
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.777	58.401	-4.223	54.000	-8.624	AV
2			5250.000	64.622	73.277	-3.678	68.300	-8.655	AV
3		*	5262.010	88.204	96.936	N/A	N/A	-8.732	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 14:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz by 802.11n(40MHz) (Chain 101)	



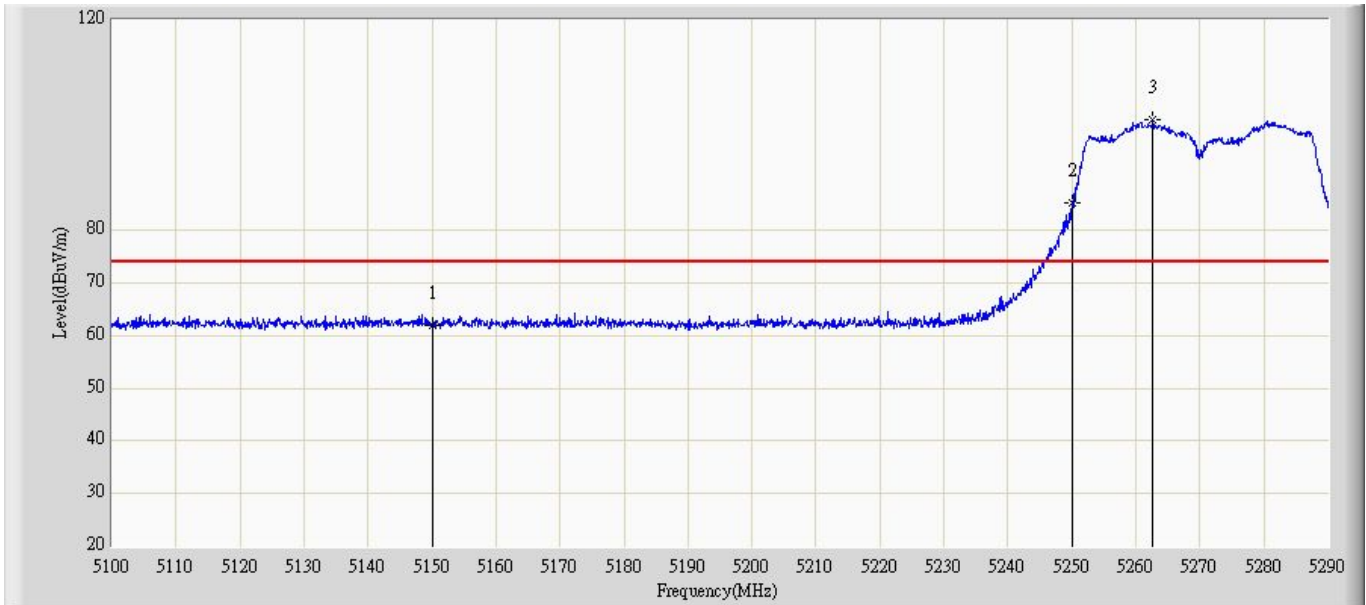
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.265	70.849	-11.735	74.000	-8.584	PK
2			5250.000	72.239	80.694	-16.061	88.300	-8.455	PK
3		*	5265.680	91.209	99.771	N/A	N/A	-8.563	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 14:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz by 802.11n(40MHz) (Chain 101)	



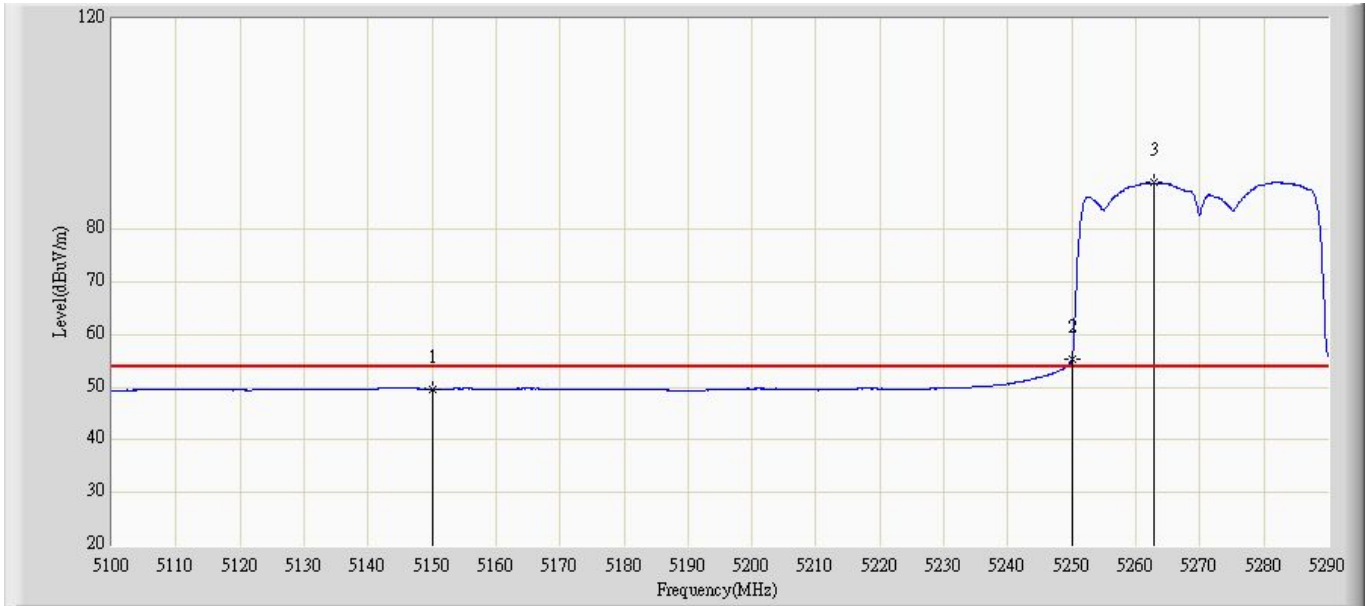
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.633	58.217	-4.367	54.000	-8.584	AV
2			5250.000	52.169	60.624	-16.131	68.300	-8.455	AV
3		*	5259.125	78.020	86.537	N/A	N/A	-8.517	AV

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 13:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz by 802.11n(40MHz) (Chain 101)	



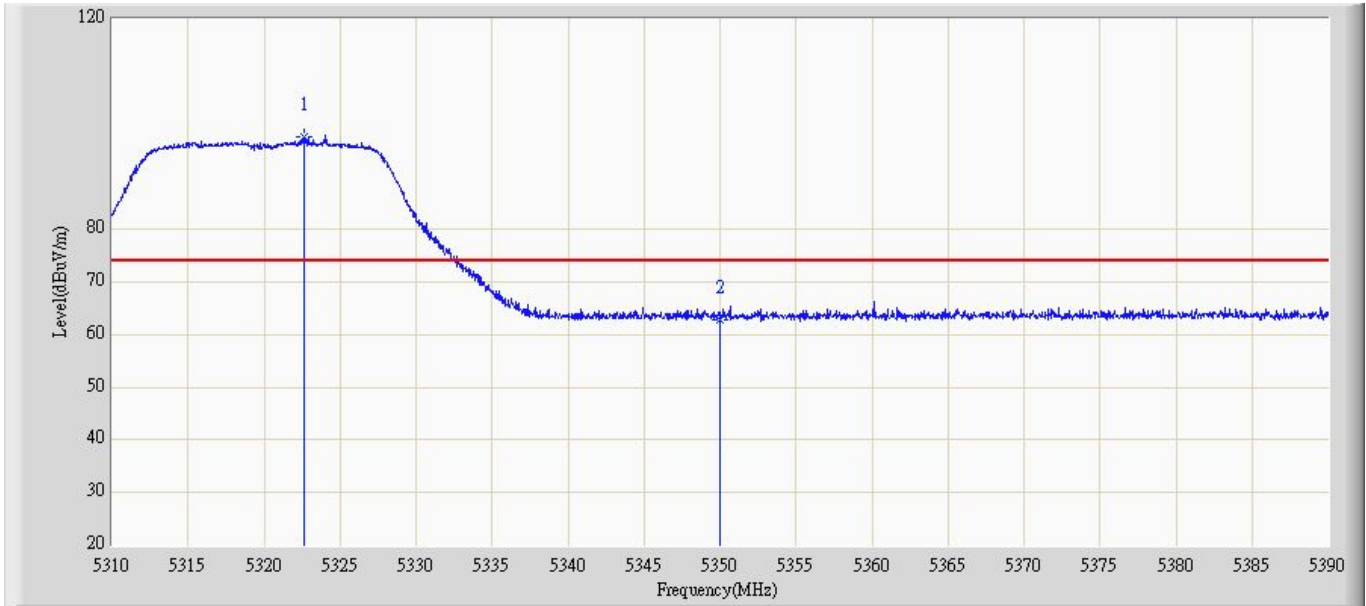
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	62.072	70.696	-11.928	74.000	-8.624	PK
2			5250.000	85.346	94.001	-2.954	88.300	-8.655	PK
3		*	5262.640	100.924	109.660	N/A	N/A	-8.736	PK

Engineer: Aileen	
Site: AC5	Time: 2011/07/03 - 14:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless Lan access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5270MHz by 802.11n(40MHz) (Chain 101)	



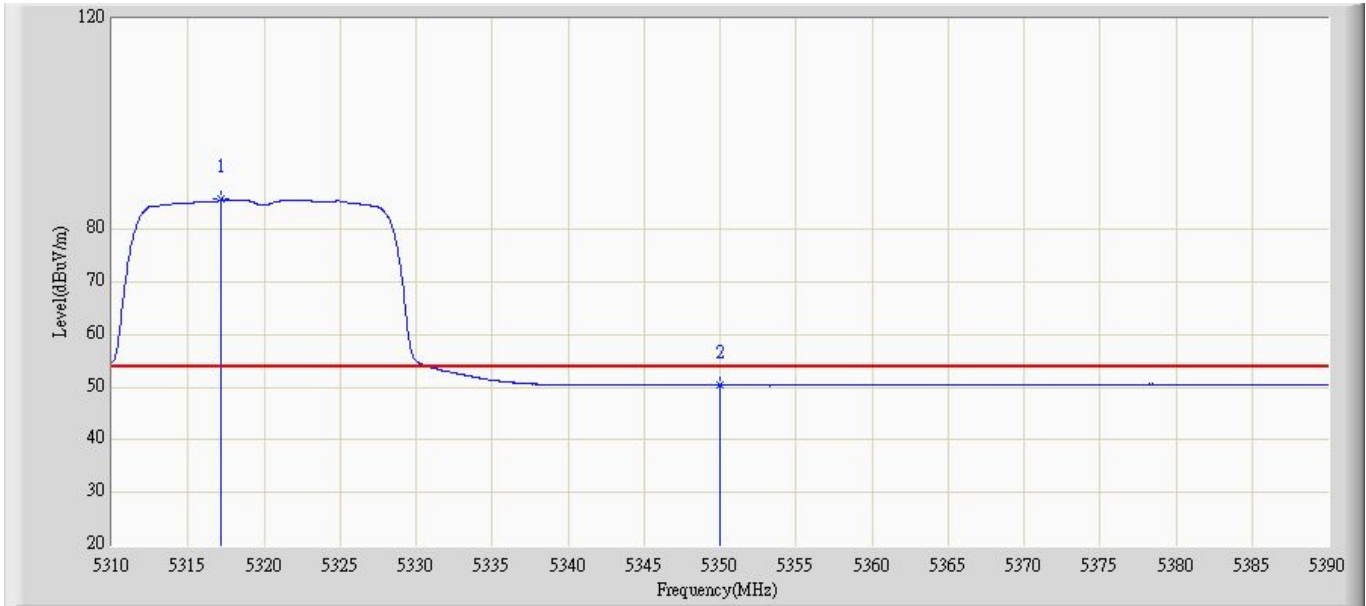
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			5150.000	49.684	58.308	-4.316	54.000	-8.624	AV
2			5250.000	55.235	63.890	-13.065	68.300	-8.655	AV
3		*	5262.735	88.844	97.581	N/A	N/A	-8.737	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 16:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 100)	



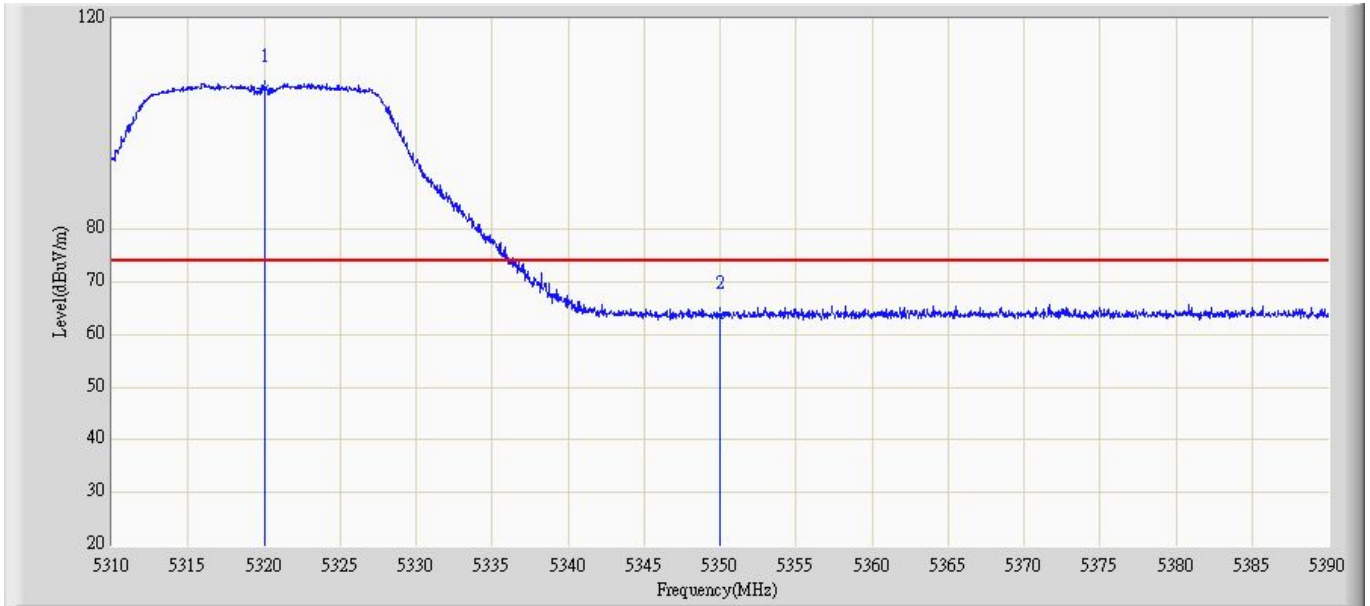
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.680	97.630	59.719	N/A	N/A	37.911	PK
2		5350.000	62.858	24.992	-11.142	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 16:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 100)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.200	85.684	47.755	N/A	N/A	37.929	AV
2		5350.000	50.380	12.514	-3.620	54.000	37.866	AV

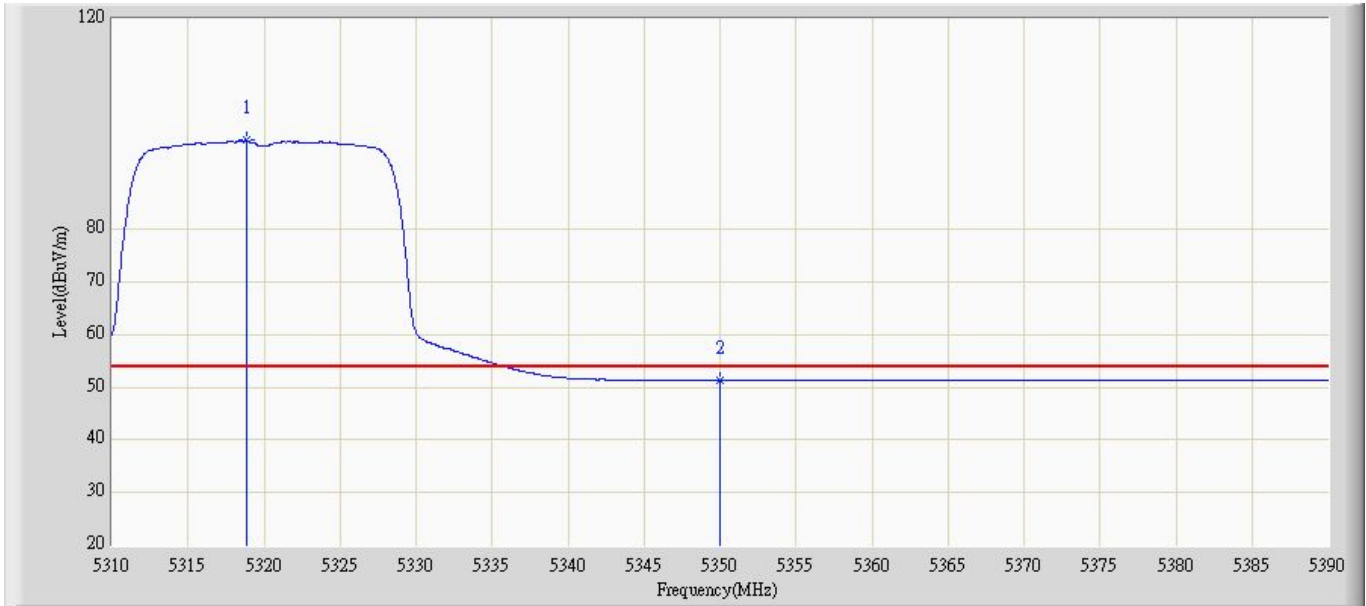
Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 16:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 100)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5320.000	106.739	68.820	N/A	N/A	37.919	PK
2		5350.000	63.587	25.721	-10.413	74.000	37.866	PK

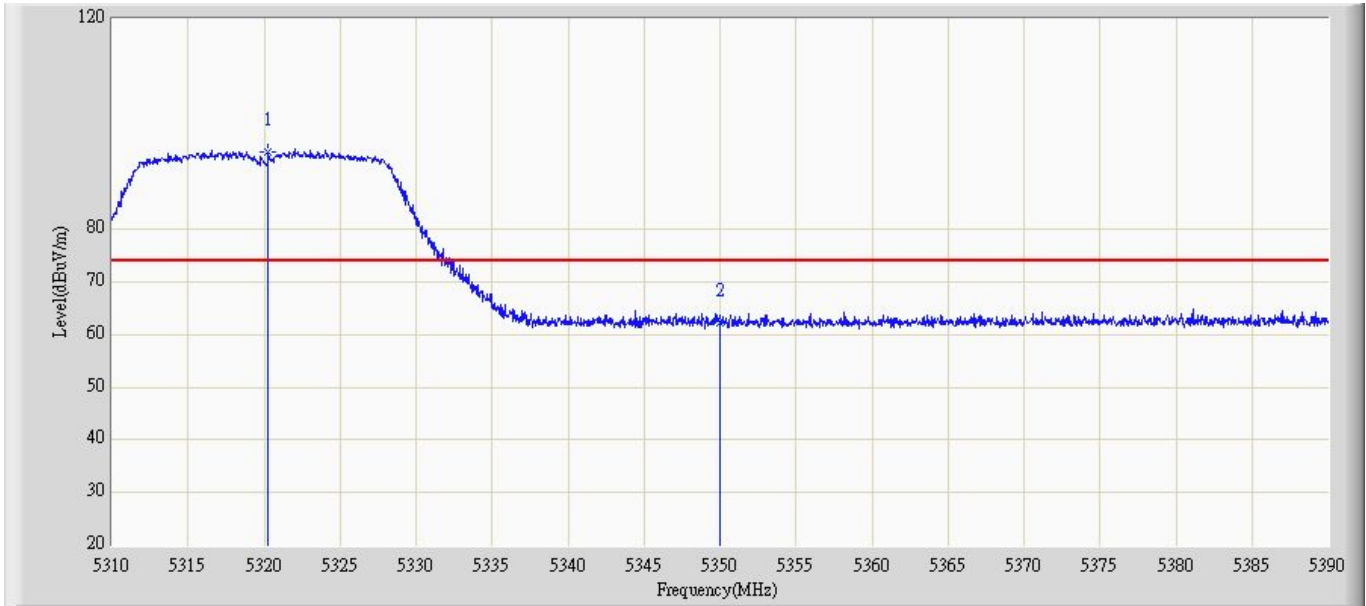


Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 17:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 100)	



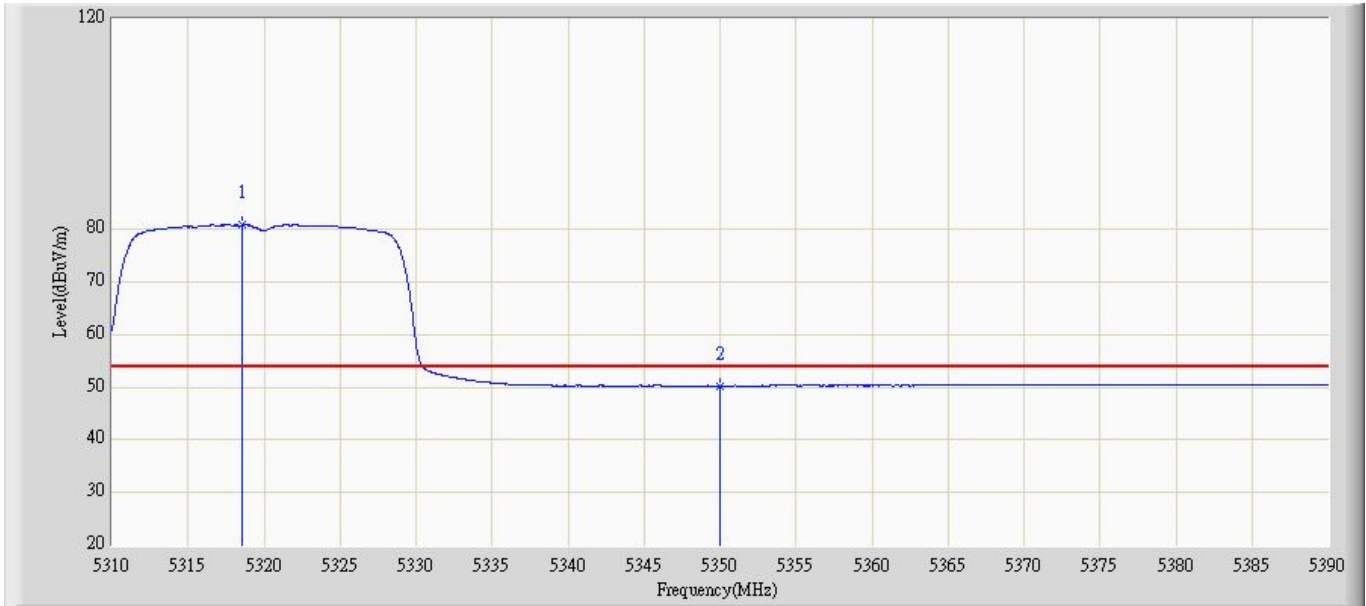
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.840	96.884	58.962	N/A	N/A	37.922	AV
2		5350.000	51.220	13.354	-2.780	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 17:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 100)	



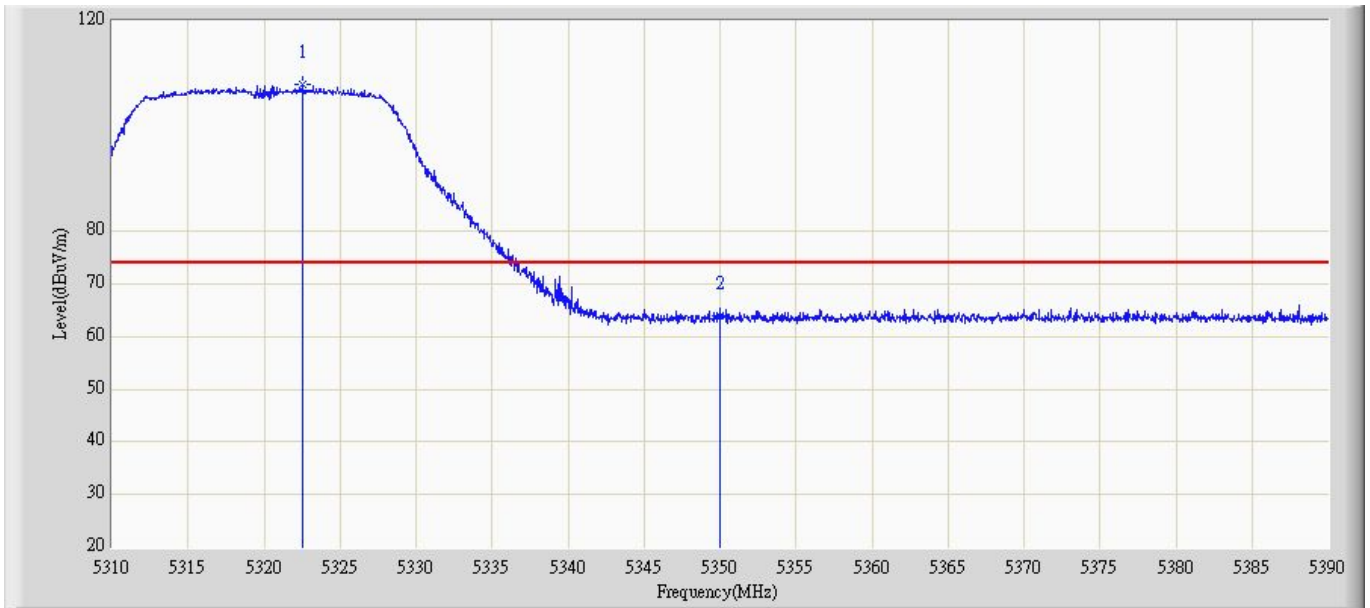
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5320.280	94.791	56.873	N/A	N/A	37.918	PK
2		5350.000	62.118	24.252	-11.882	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 100)	



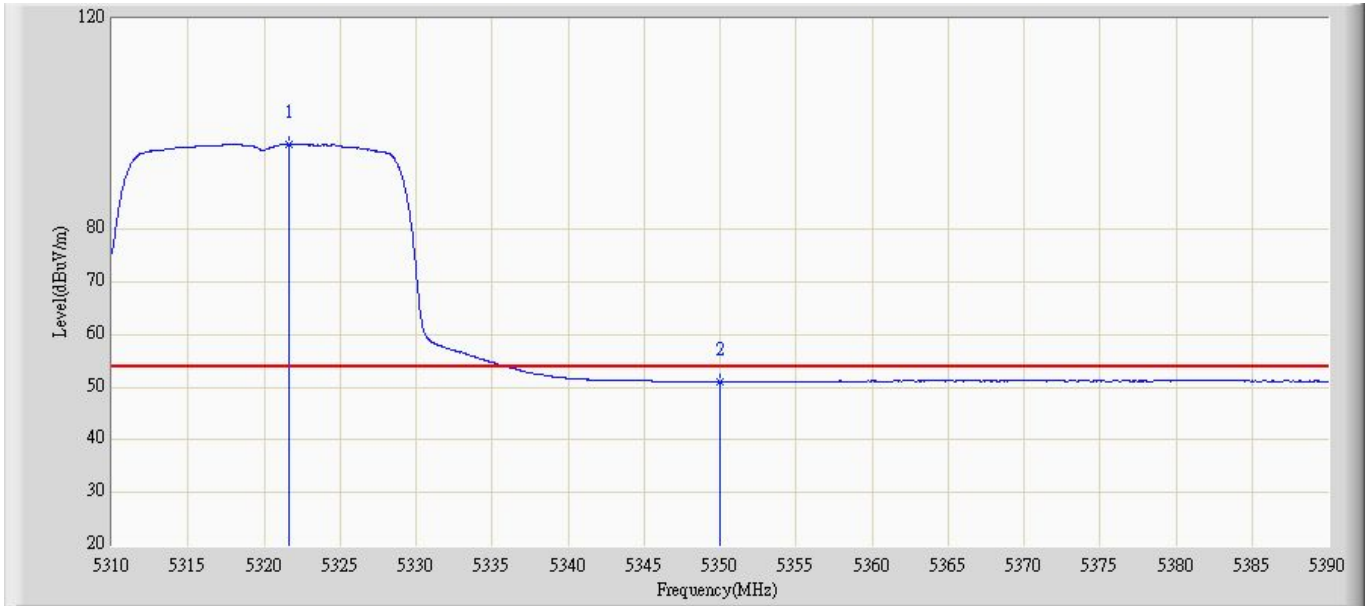
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.600	80.825	42.902	N/A	N/A	37.923	AV
2		5350.000	50.271	12.405	-3.729	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 100)	



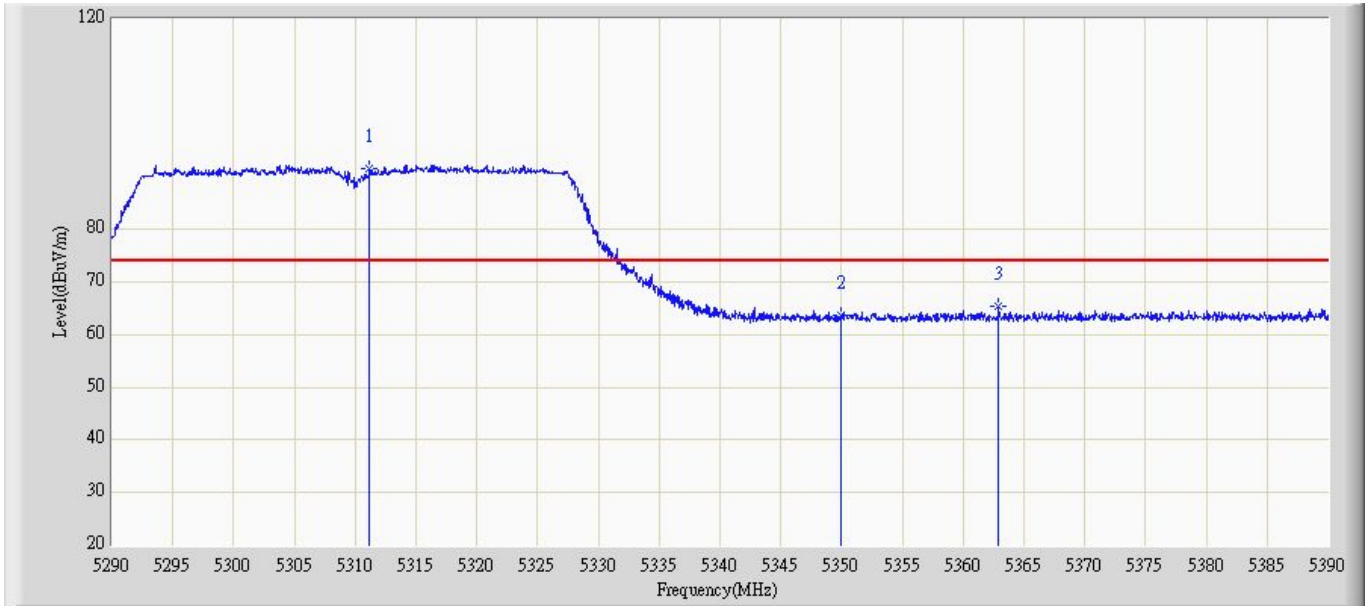
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.520	107.862	69.951	N/A	N/A	37.912	PK
2		5350.000	64.095	26.229	-9.905	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 17:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 100)	



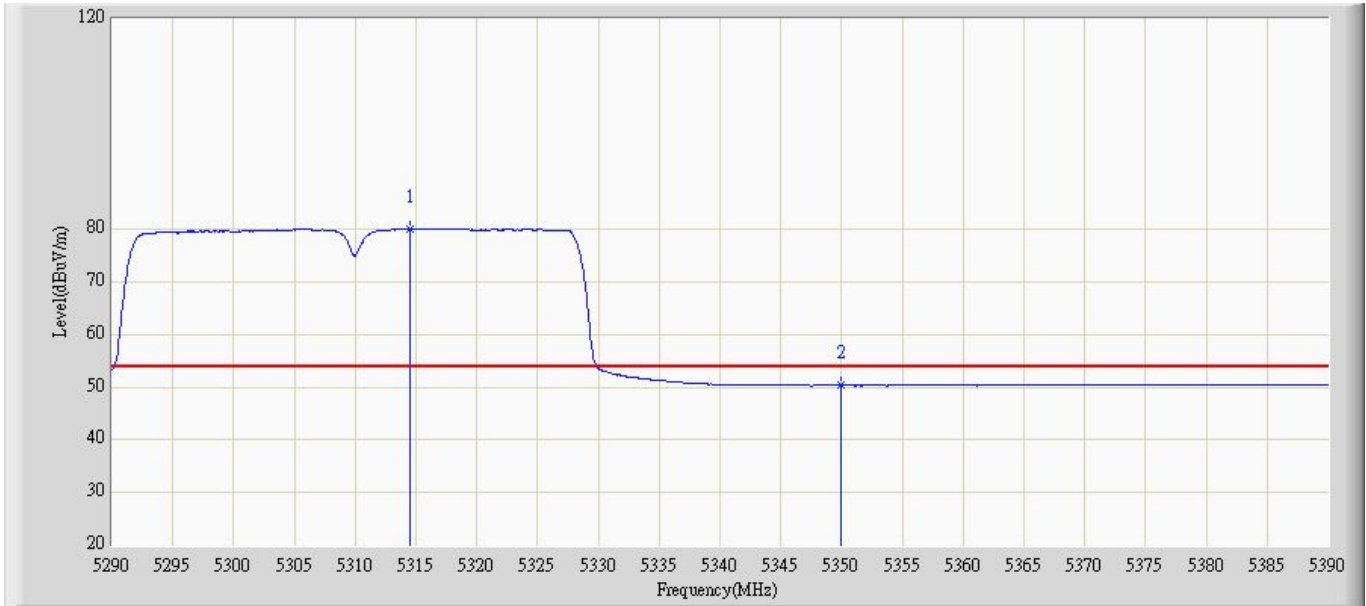
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5321.600	96.129	58.215	N/A	N/A	37.914	AV
2		5350.000	51.089	13.223	-2.911	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 19:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 100)	



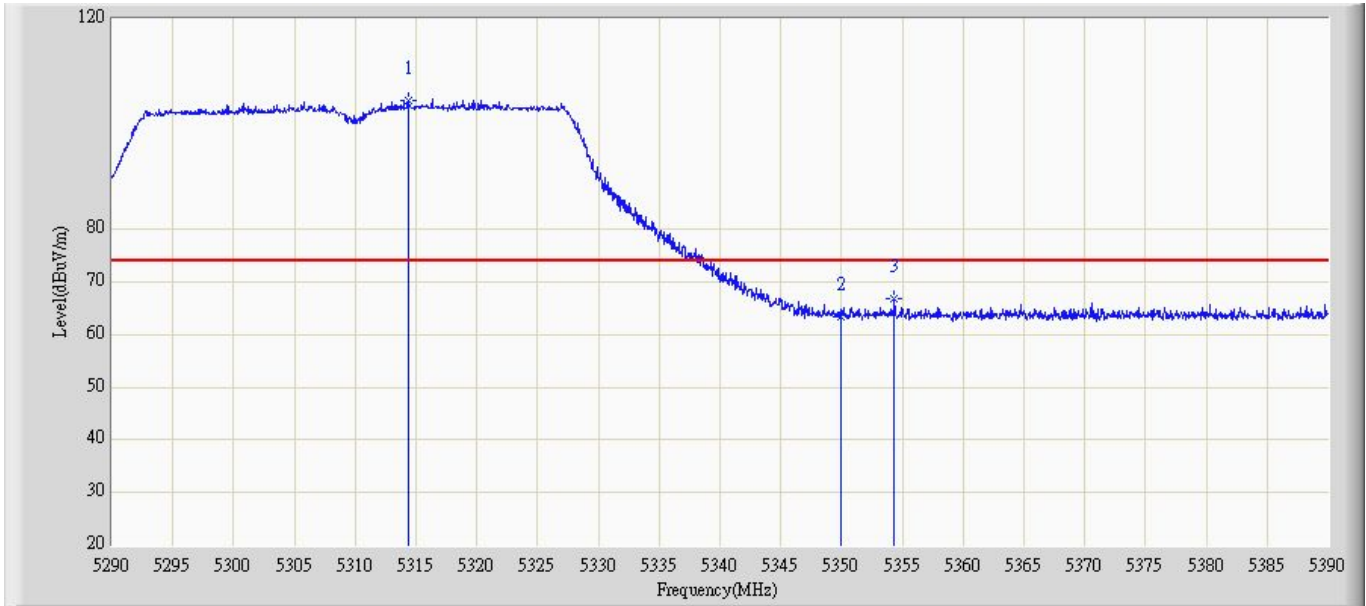
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5311.200	91.664	53.707	N/A	N/A	37.957	PK
2		5350.000	63.739	25.873	-10.261	74.000	37.866	PK
3		5362.900	65.419	27.507	-8.581	74.000	37.912	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 19:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 100)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.500	80.158	42.216	N/A	N/A	37.942	AV
2		5350.000	50.349	12.483	-3.651	54.000	37.866	AV

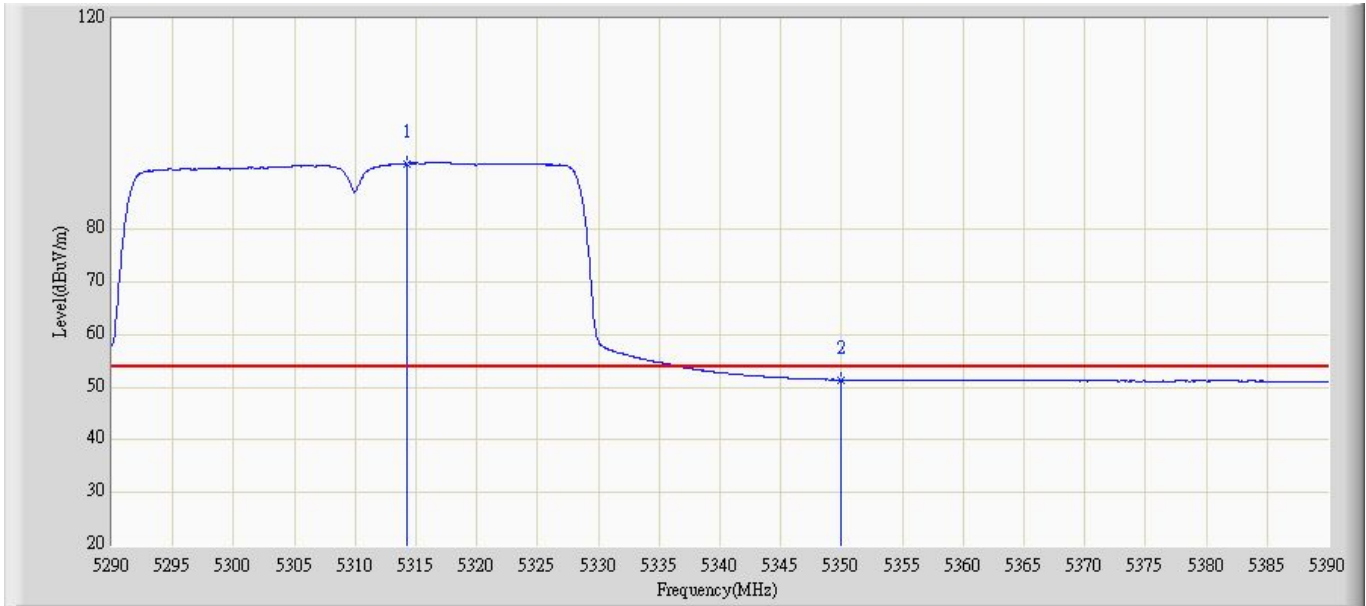
Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 19:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 100)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.400	104.356	66.414	N/A	N/A	37.942	PK
2		5350.000	63.337	25.471	-10.663	74.000	37.866	PK
3		5354.350	66.824	28.949	-7.176	74.000	37.875	PK

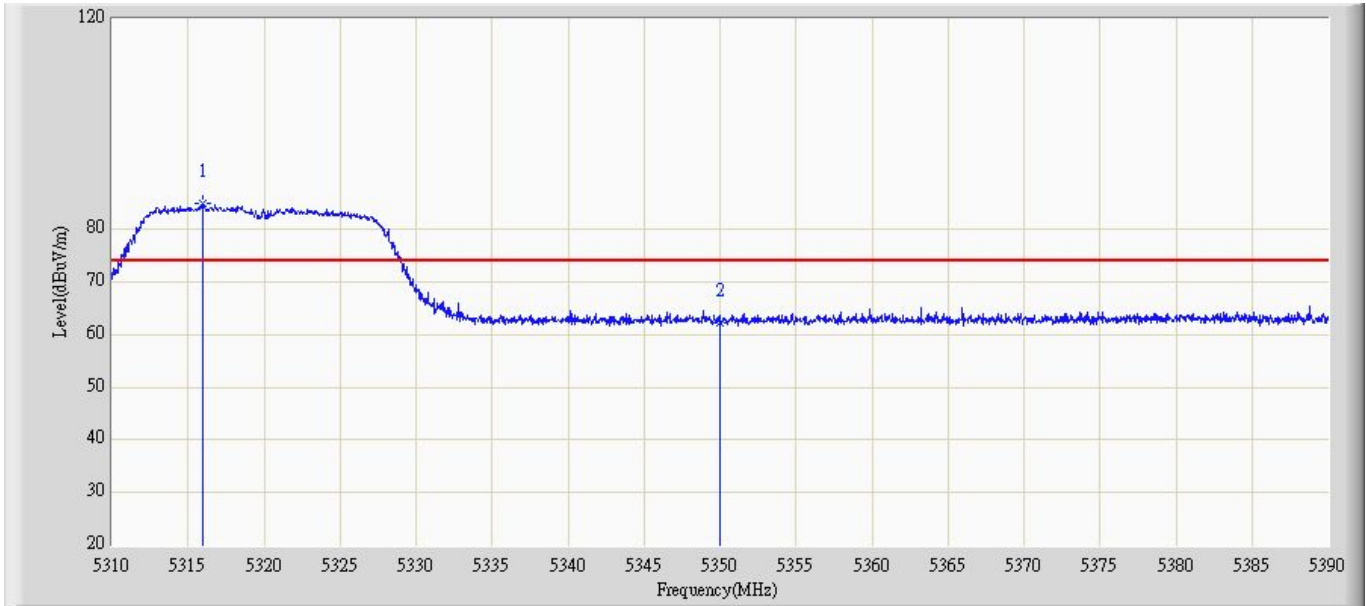


Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 19:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 100)	



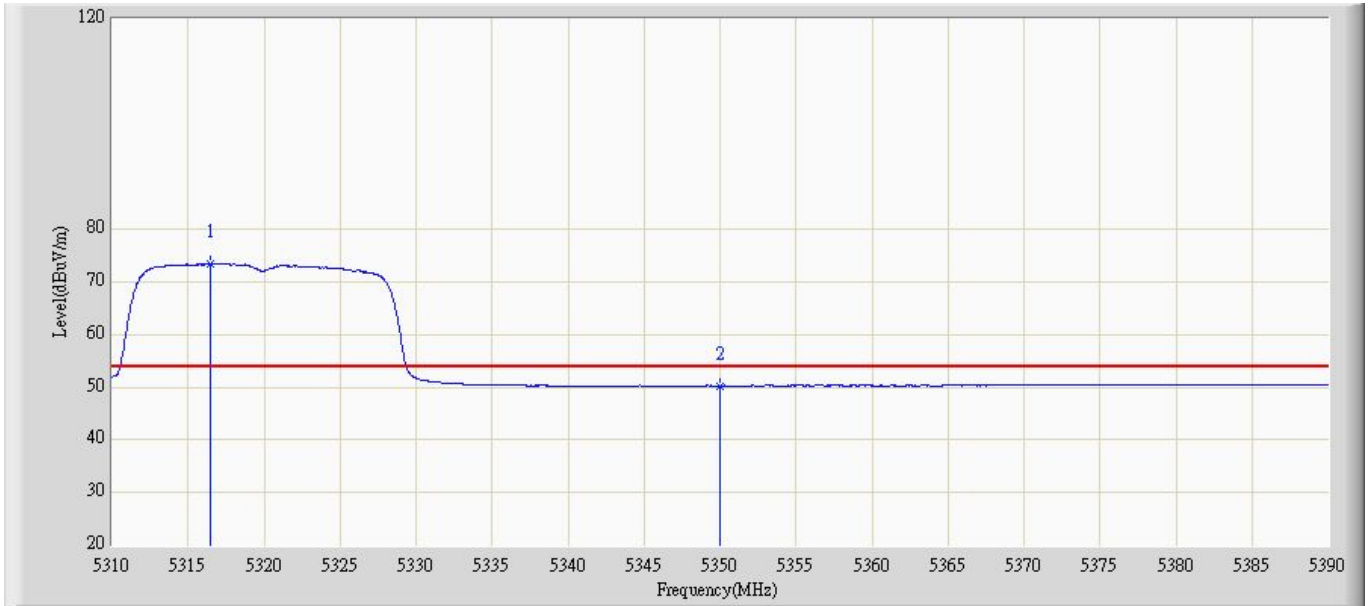
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.300	92.517	54.574	N/A	N/A	37.942	AV
2		5350.000	51.461	13.595	-2.539	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 001)	



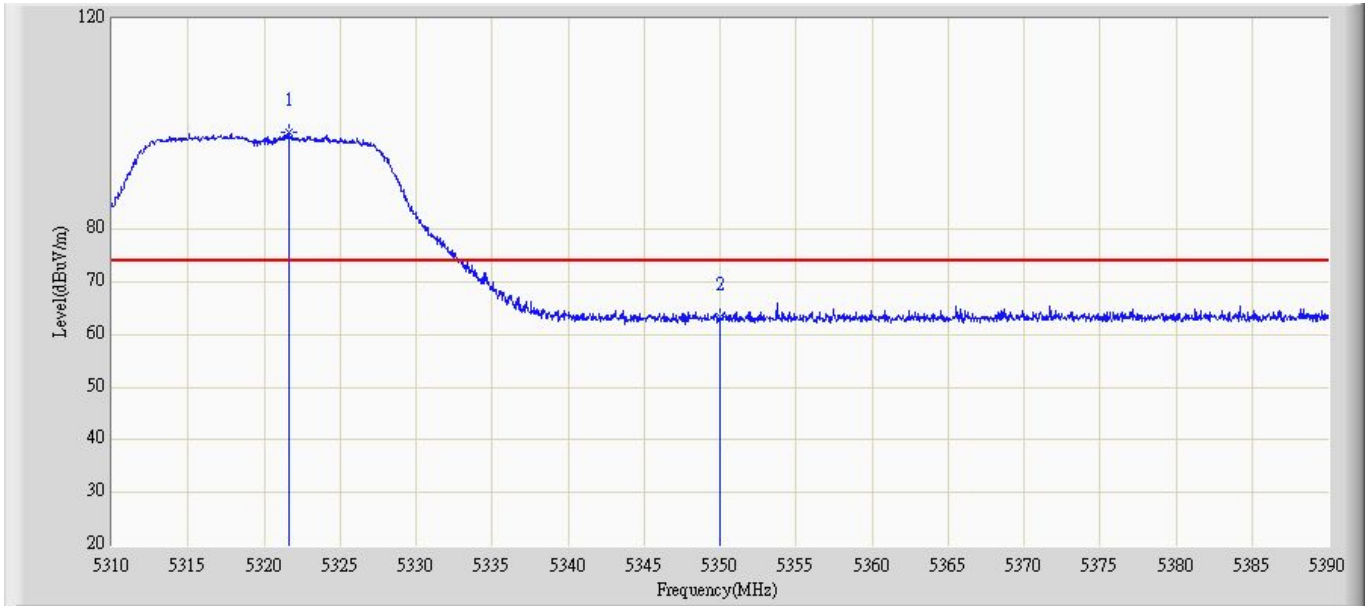
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5315.960	84.927	46.992	N/A	N/A	37.934	PK
2		5350.000	62.327	24.461	-11.673	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 001)	



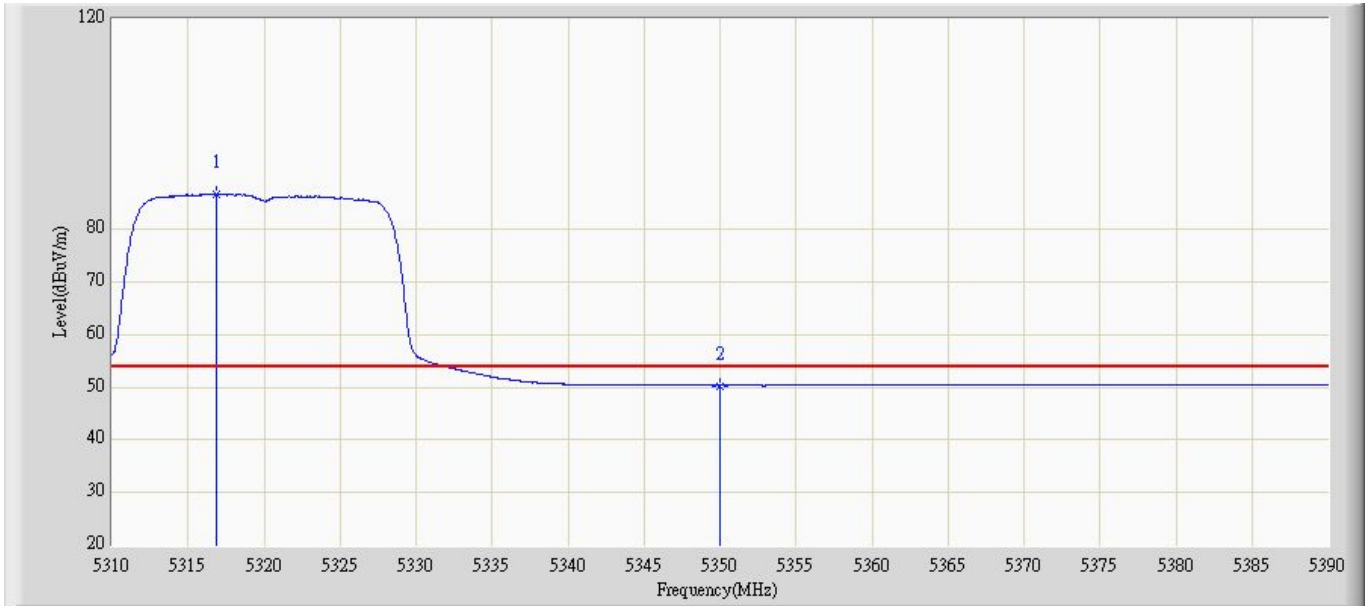
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5316.480	73.426	35.494	N/A	N/A	37.932	AV
2		5350.000	50.302	12.436	-3.698	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 001)	



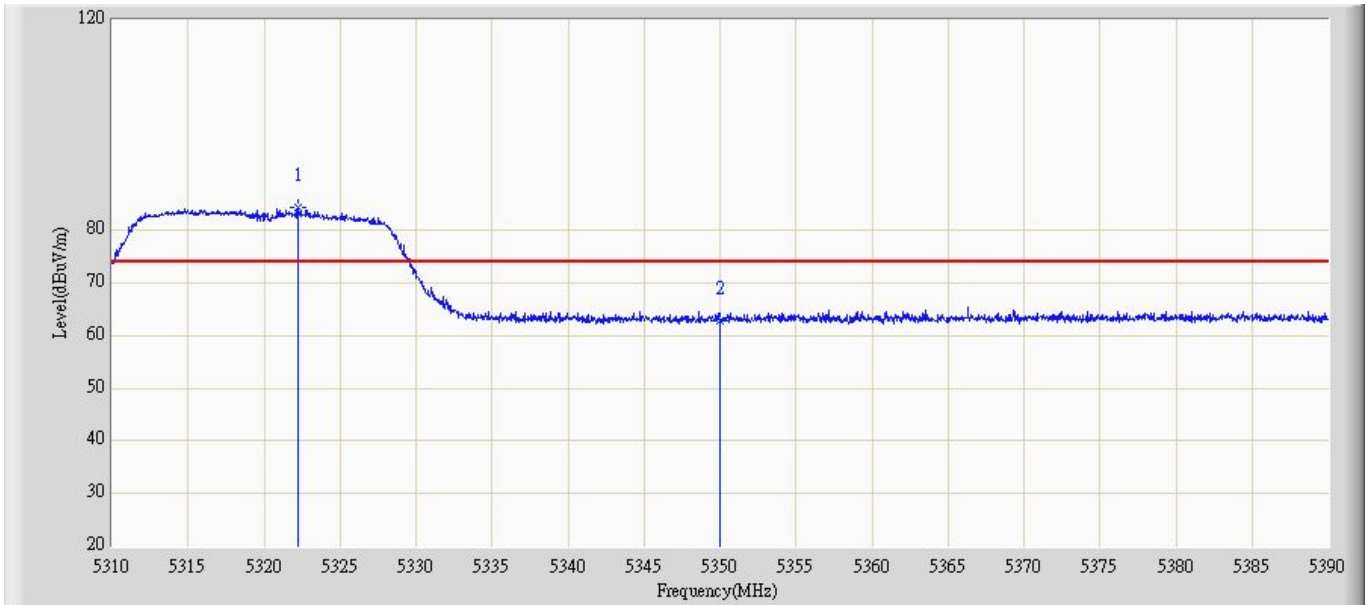
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5321.680	98.388	60.474	N/A	N/A	37.914	PK
2		5350.000	63.432	25.566	-10.568	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 5320MHz by 802.11a (Chain 001)	



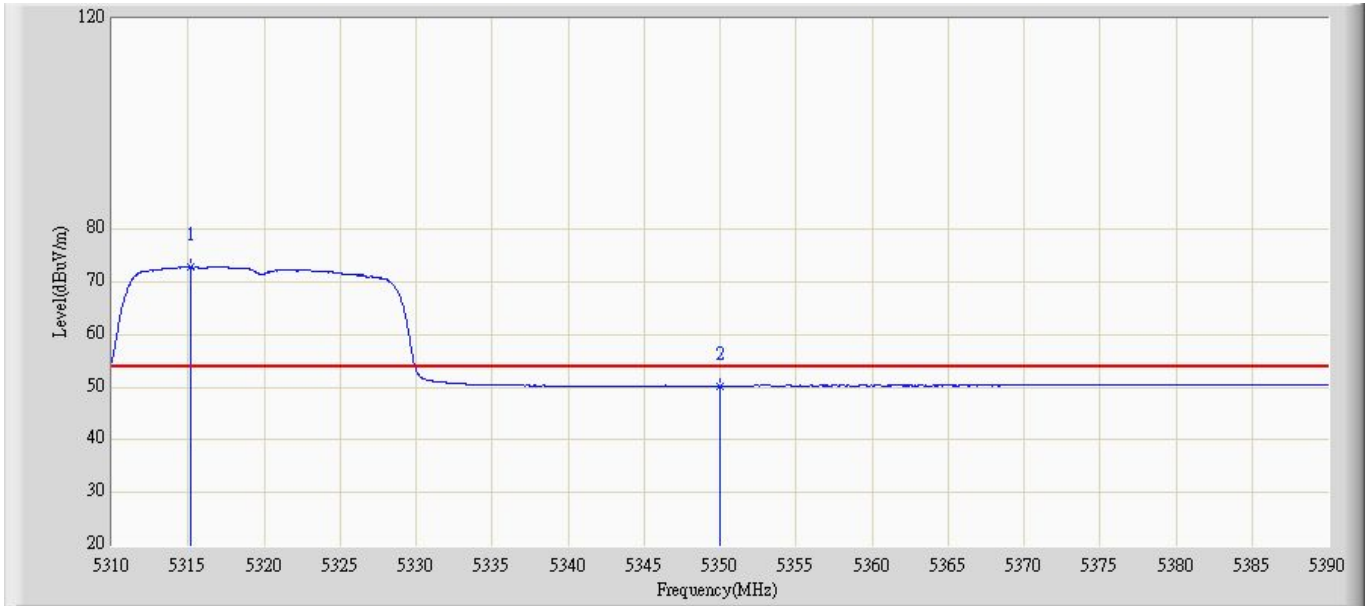
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5316.840	86.701	48.770	N/A	N/A	37.930	AV
2		5350.000	50.315	12.449	-3.685	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 001)	



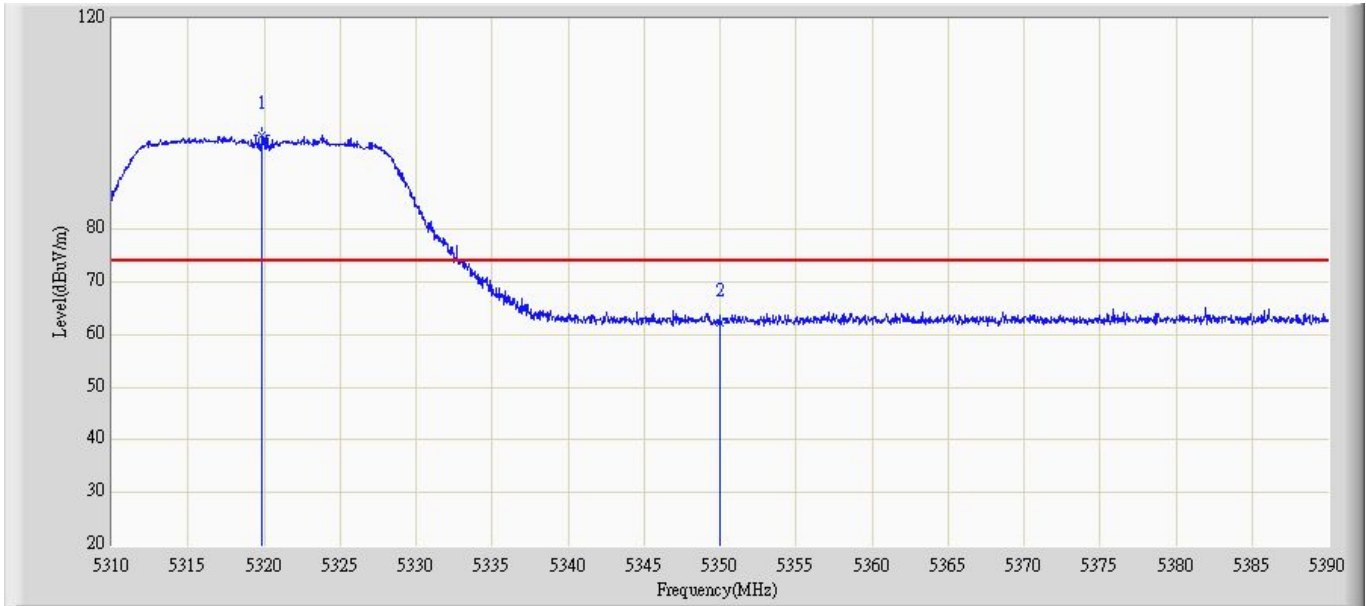
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5322.240	84.293	46.381	N/A	N/A	37.912	PK
2		5350.000	62.789	24.923	-11.211	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 001)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5315.200	72.762	34.824	N/A	N/A	37.938	AV
2		5350.000	50.266	12.400	-3.734	54.000	37.866	AV

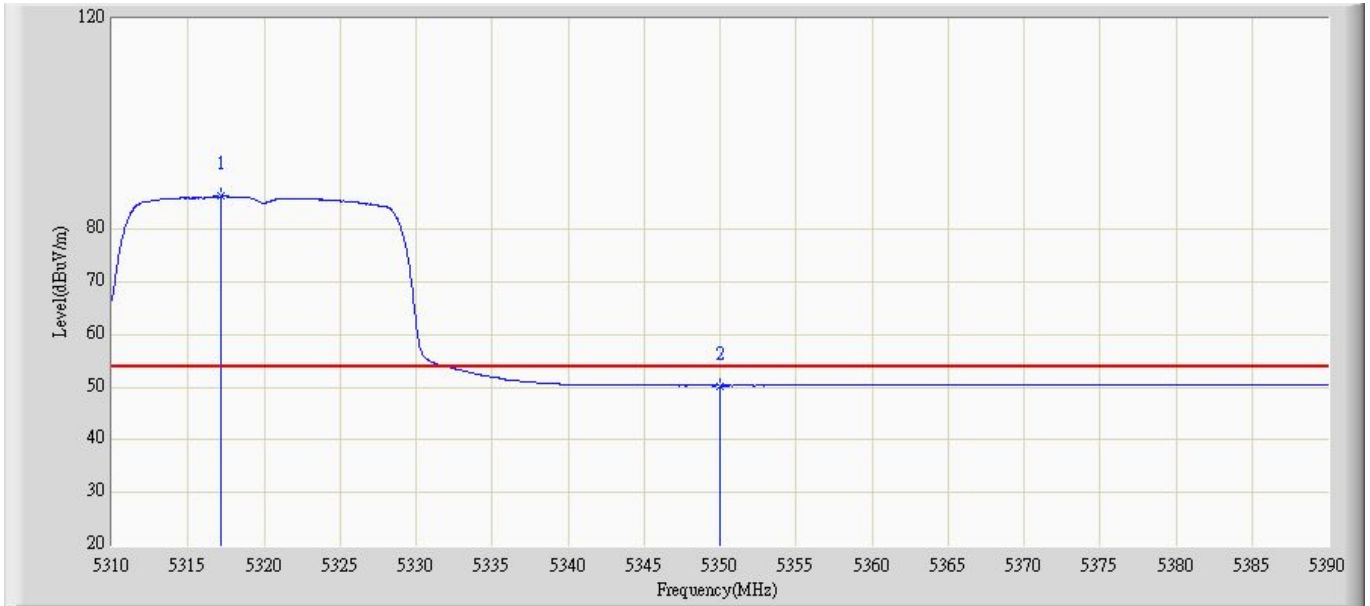
Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 001)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5319.880	97.931	60.012	N/A	N/A	37.919	PK
2		5350.000	62.244	24.378	-11.756	74.000	37.866	PK

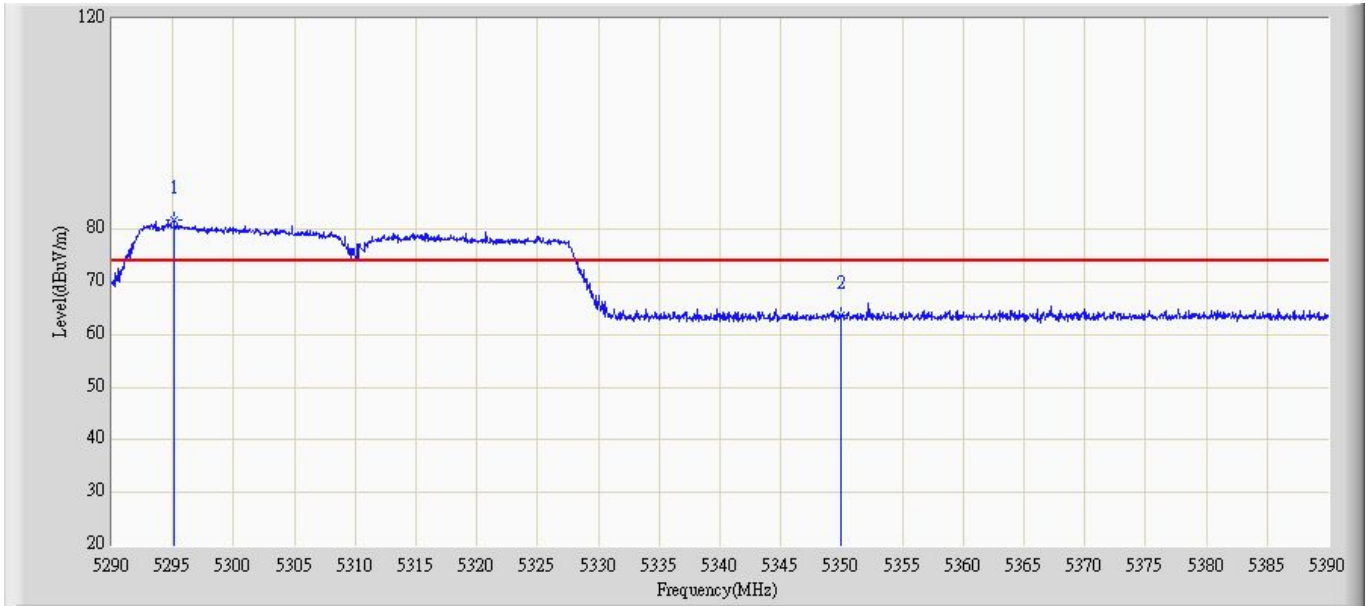


Engineer: Aileen	
Site: AC5	Time: 2011/04/07 - 20:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 001)	



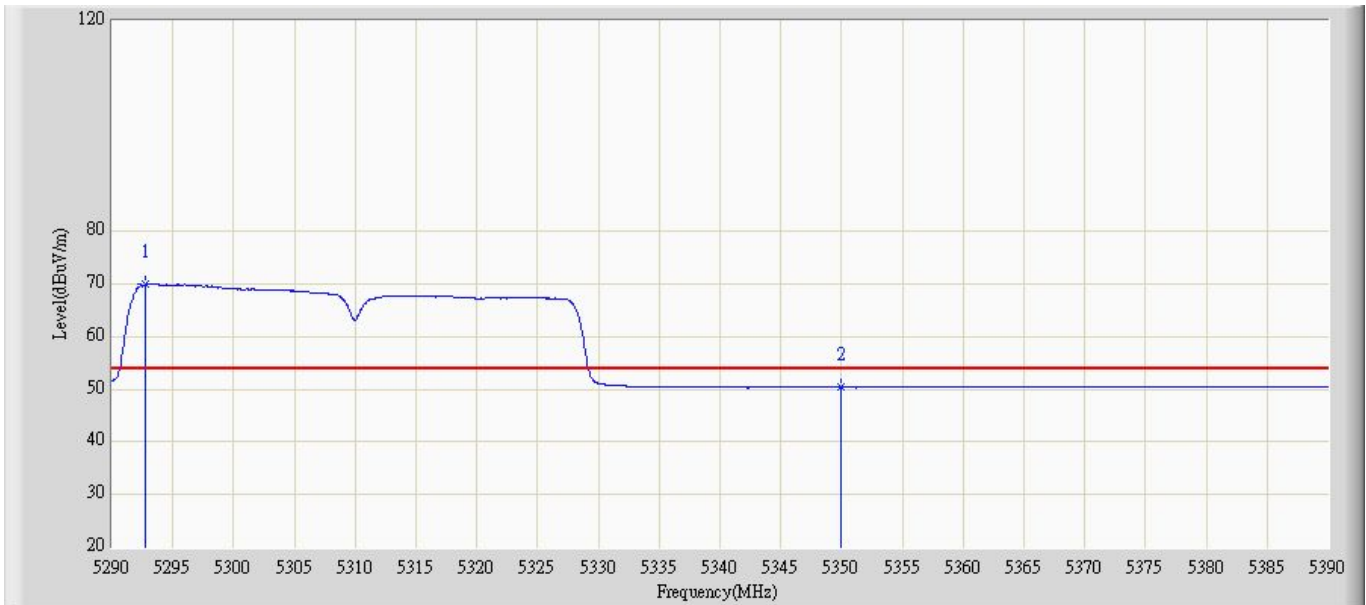
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.200	86.353	48.424	N/A	N/A	37.929	AV
2		5350.000	50.307	12.441	-3.693	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 09:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 001)	



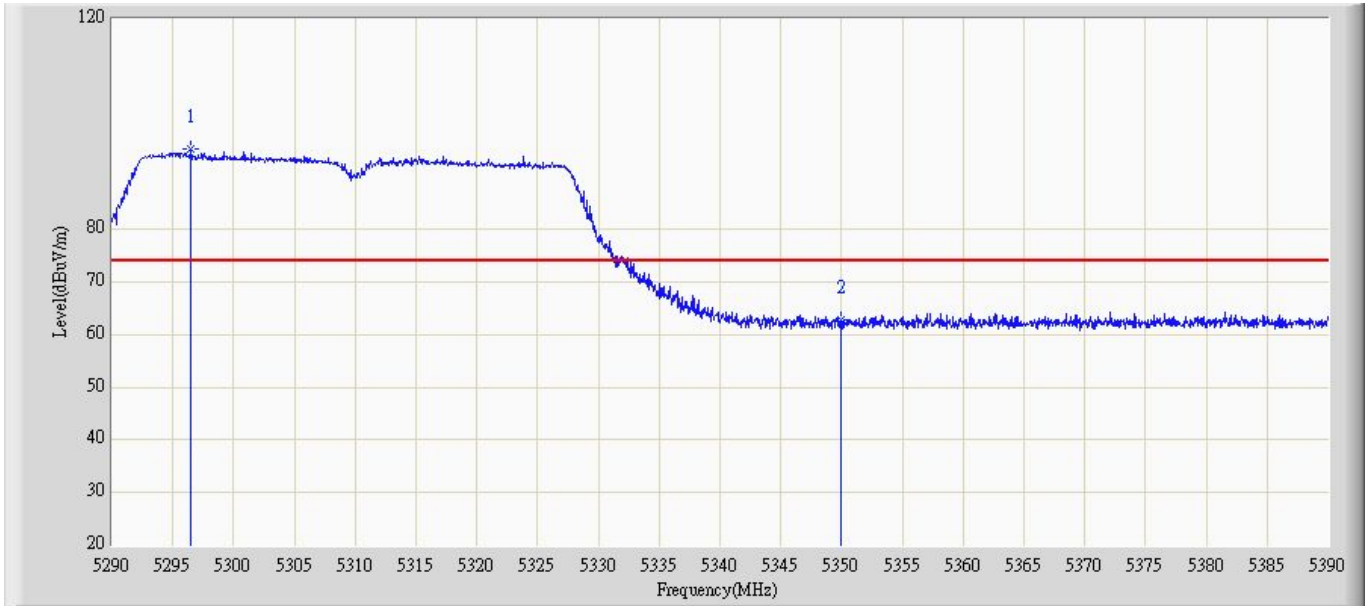
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5295.100	81.652	43.639	N/A	N/A	38.013	PK
2		5350.000	63.747	25.881	-10.253	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 09:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 001)	



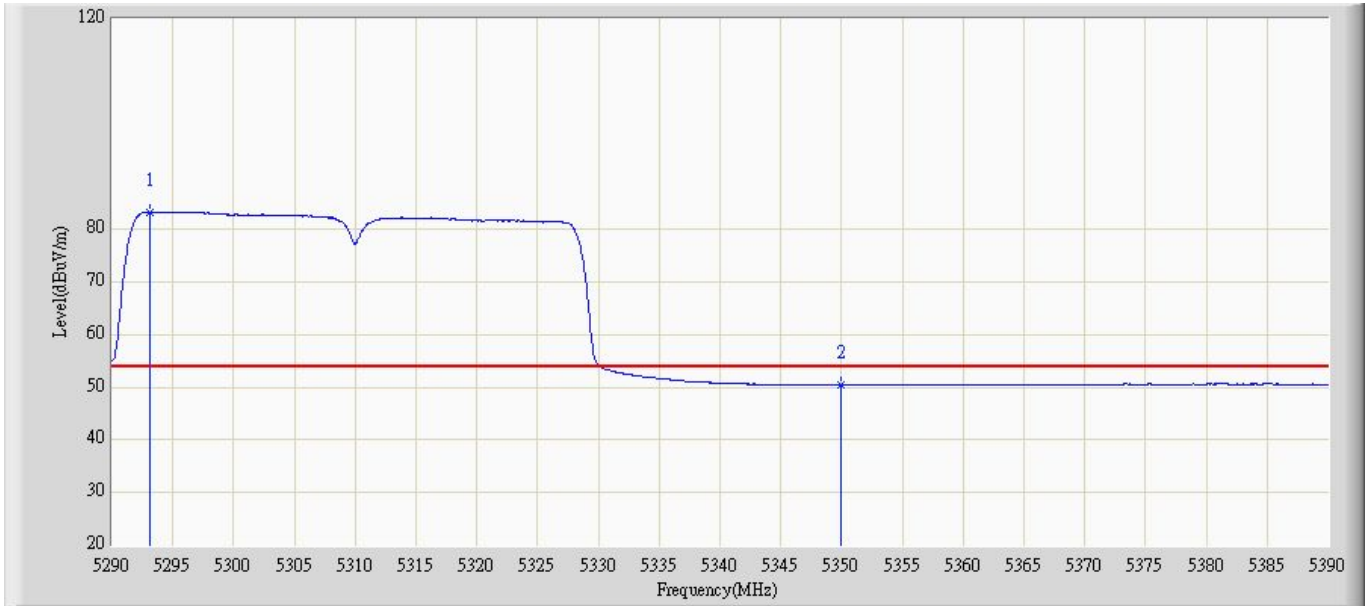
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5292.700	69.858	31.842	N/A	N/A	38.016	AV
2		5350.000	50.368	12.502	-3.632	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 09:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 001)	



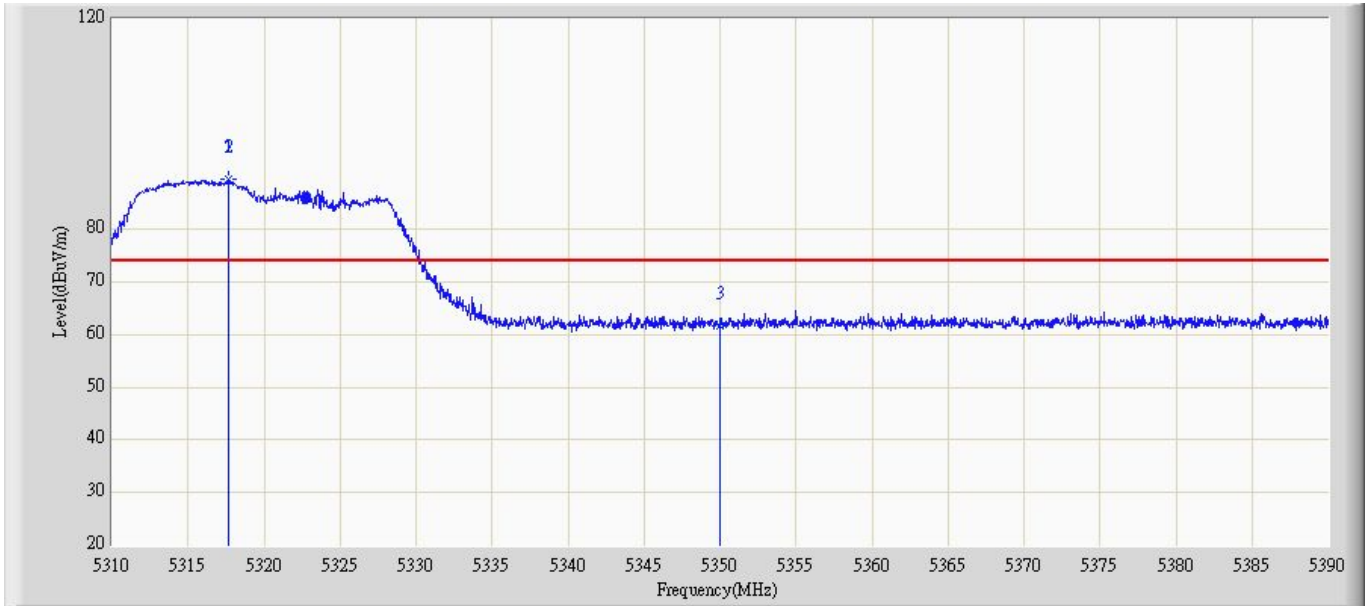
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5296.500	95.254	57.242	N/A	N/A	38.011	PK
2		5350.000	62.766	24.900	-11.234	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 09:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 001)	



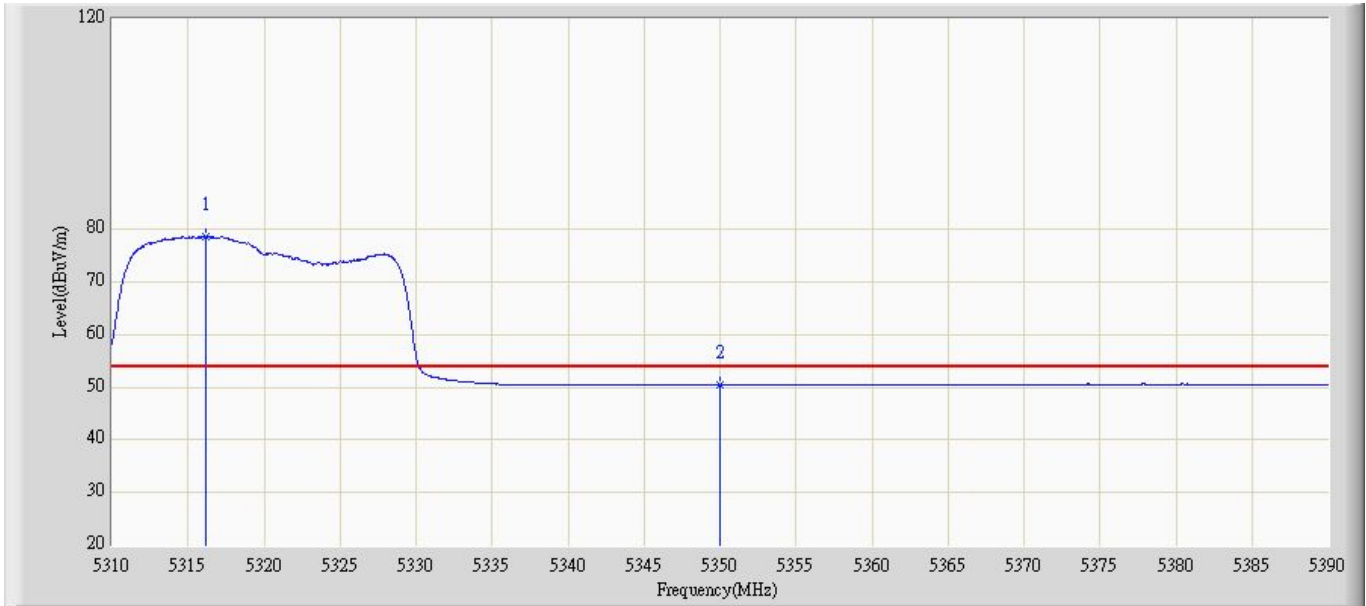
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5293.100	83.238	45.222	N/A	N/A	38.015	AV
2		5350.000	50.460	12.594	-3.540	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 101)	



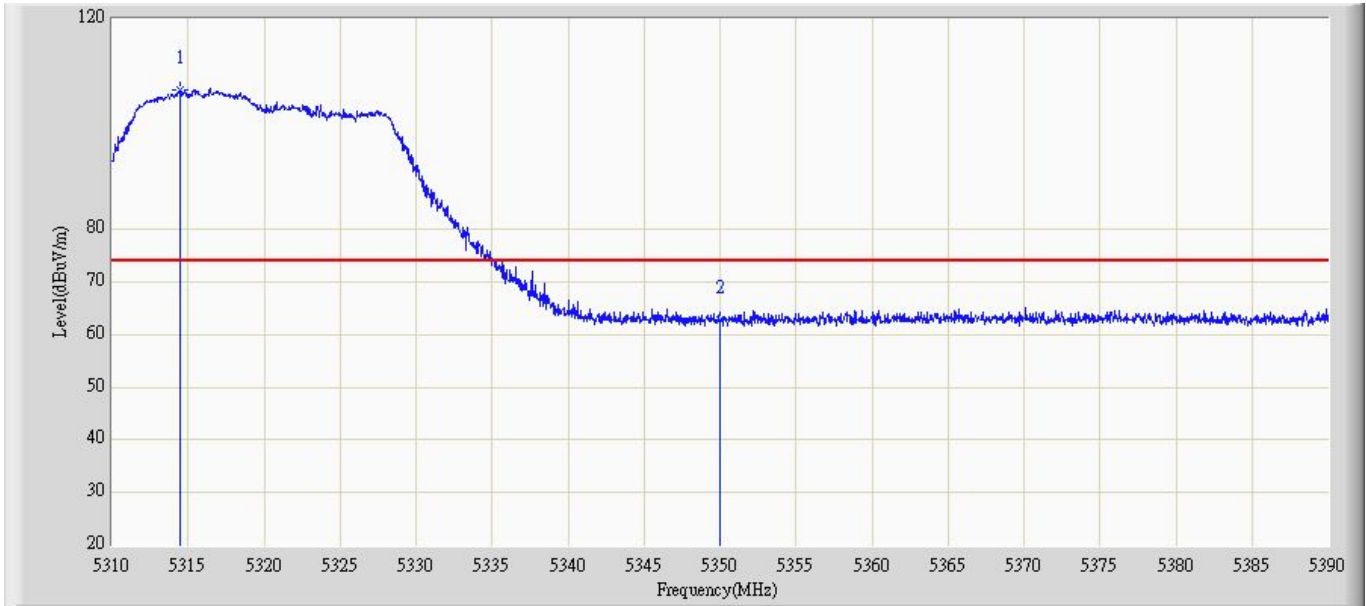
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5317.640	89.418	51.491	N/A	N/A	37.926	PK
2		5350.000	61.784	23.918	-12.216	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 101)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5316.200	78.600	40.666	N/A	N/A	37.933	AV
2		5350.000	50.387	12.521	-3.613	54.000	37.866	AV

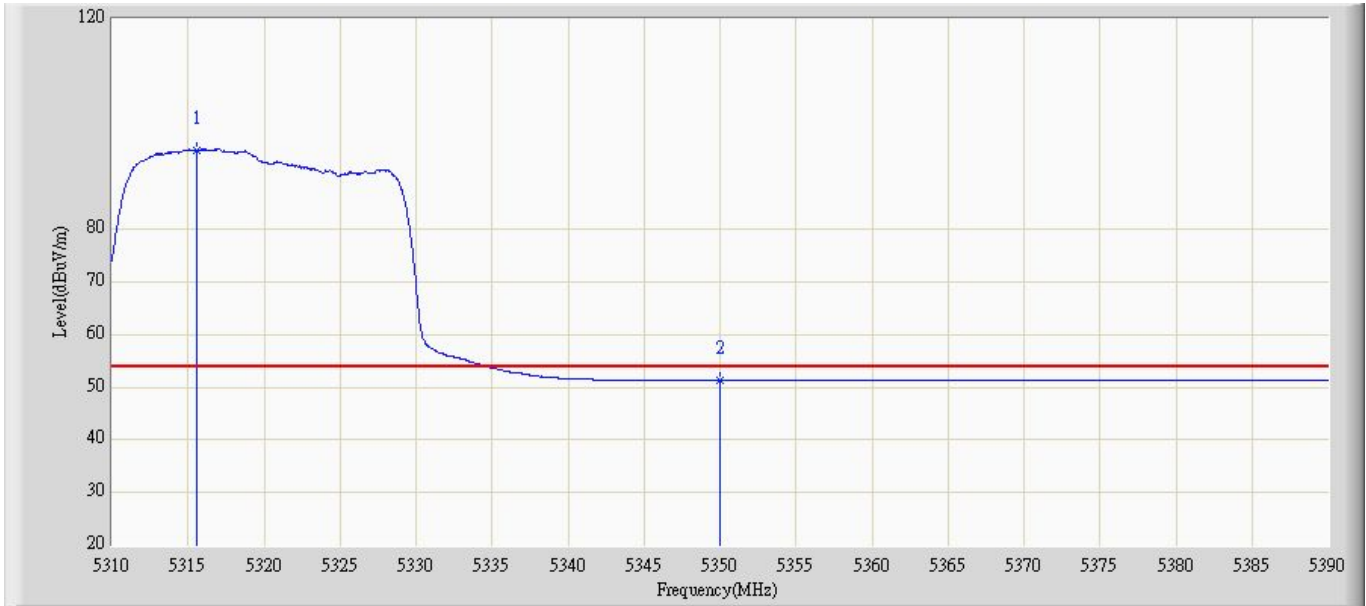
Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 101)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.520	106.500	68.558	N/A	N/A	37.941	PK
2		5350.000	62.731	24.865	-11.269	74.000	37.866	PK

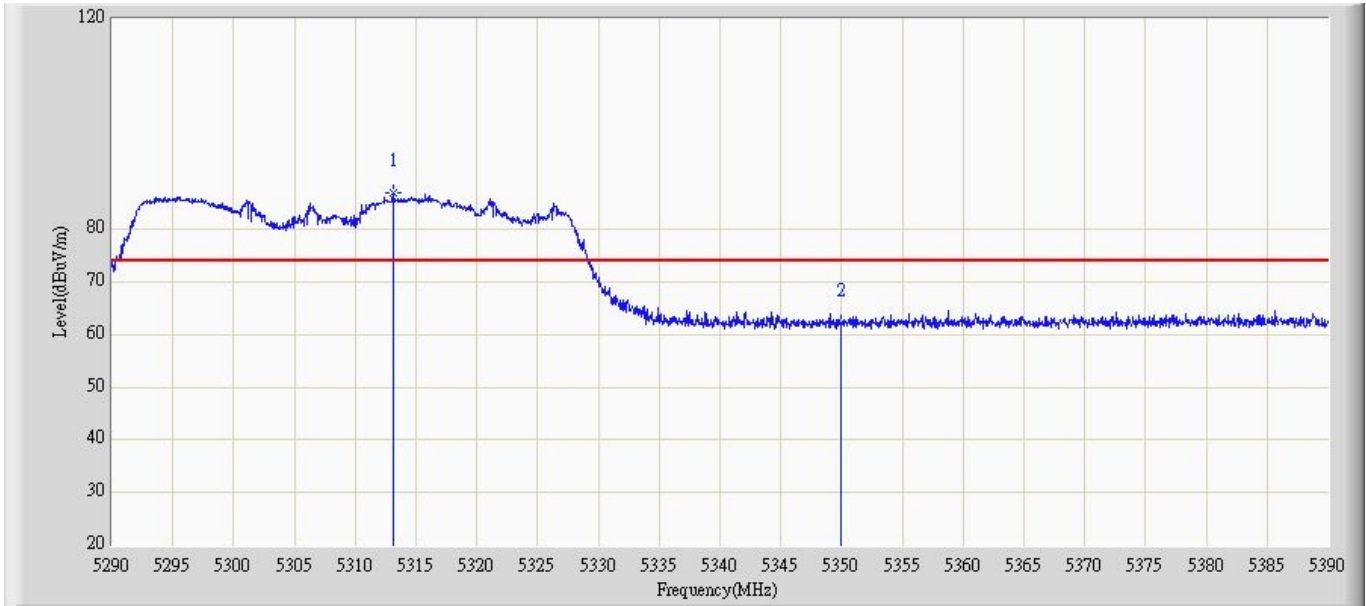


Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 5320MHz by 802.11n(20MHz) (Chain 101)	



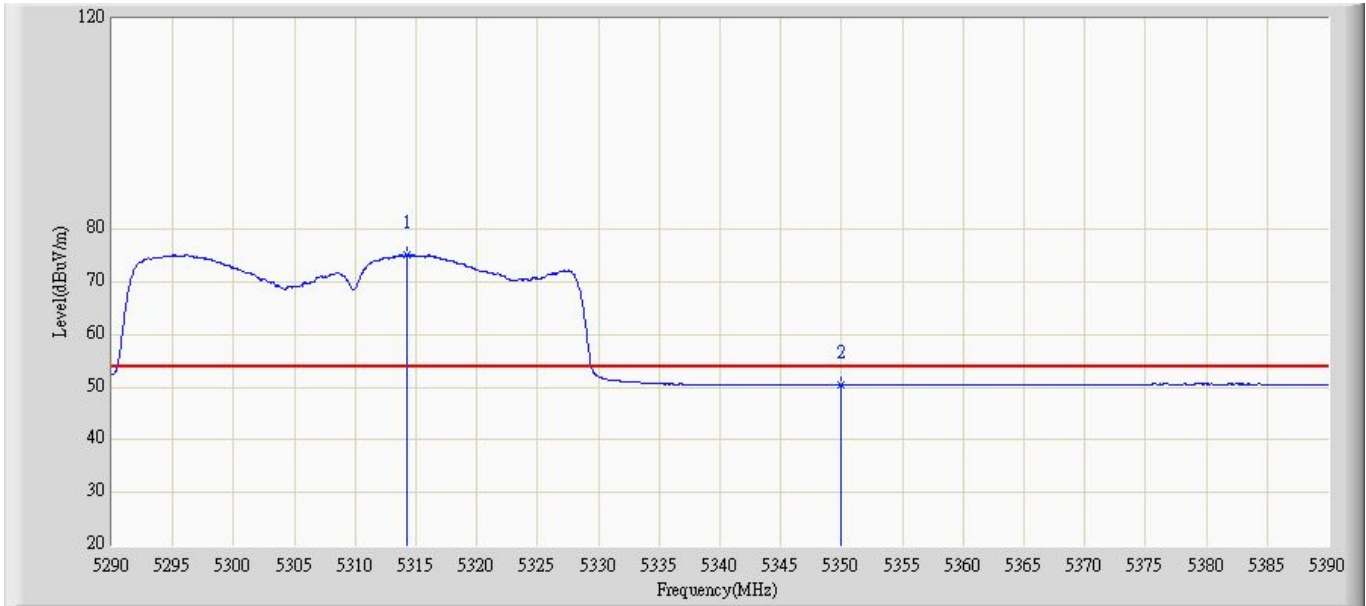
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5315.600	95.068	57.132	N/A	N/A	37.937	AV
2		5350.000	51.242	13.376	-2.758	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 101)	



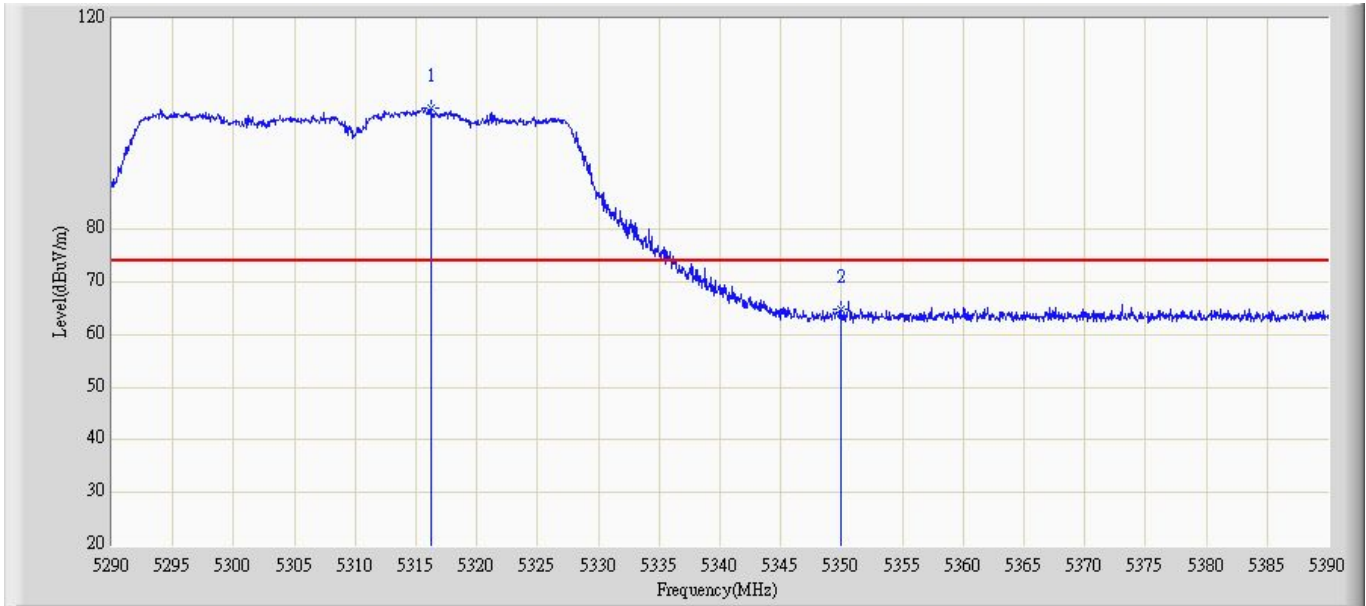
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5313.100	86.822	48.874	N/A	N/A	37.949	PK
2		5350.000	62.253	24.387	-11.747	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Horizontal
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 101)	



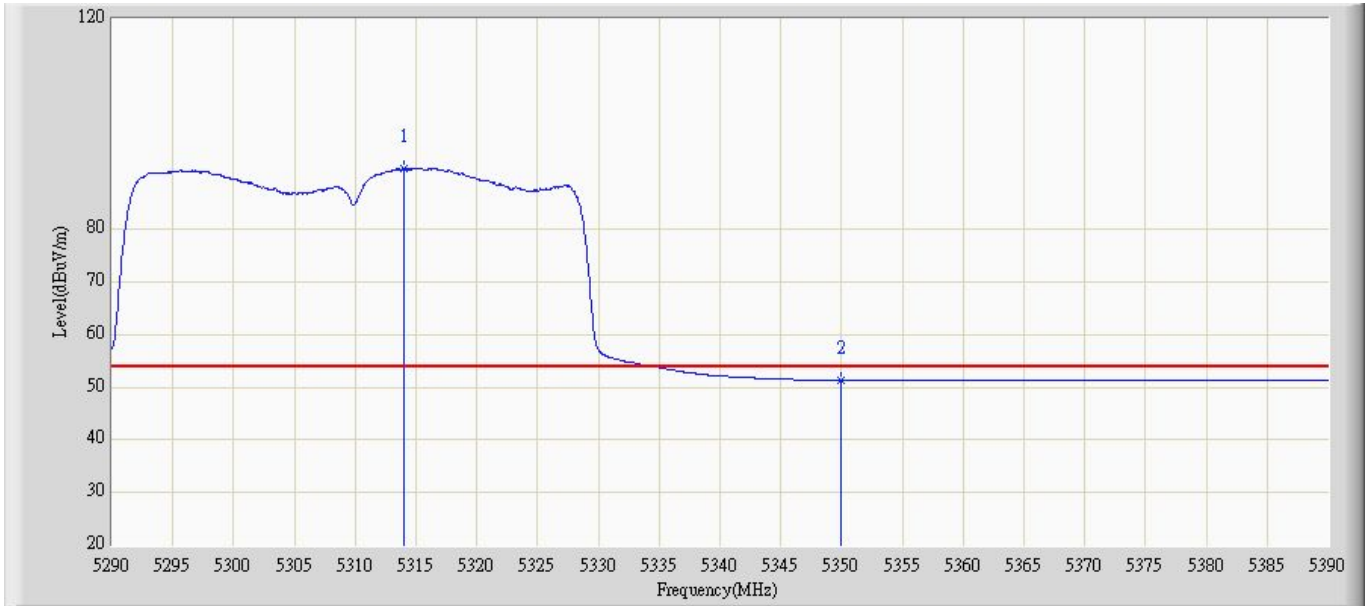
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.200	75.128	37.185	N/A	N/A	37.943	AV
2		5350.000	50.413	12.547	-3.587	54.000	37.866	AV

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 101)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5316.250	103.136	65.203	N/A	N/A	37.933	PK
2		5350.000	64.757	26.891	-9.243	74.000	37.866	PK

Engineer: Aileen	
Site: AC5	Time: 2011/04/08 - 10:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-499(1-18GHz)	Polarity: Vertical
EUT: Wireless LAN access Point	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 5310MHz by 802.11n(40MHz) (Chain 101)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5314.050	91.599	53.655	N/A	N/A	37.944	AV
2		5350.000	51.356	13.490	-2.644	54.000	37.866	AV

## 11. Frequency Stability

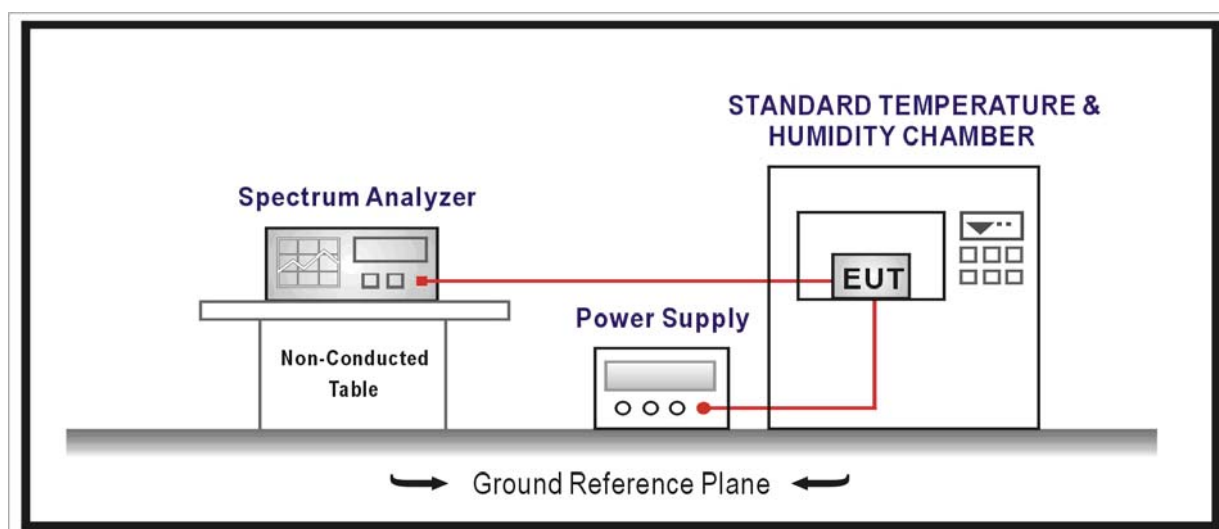
### 11.1. Test Equipment

Frequency Stability / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2011.04.30
AC Power Supply	IDRC	CF-500TP	979422	2011.09.27
DC Power Supply	IDRC	CD-035-020PR	977272	2011.09.27
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2012.01.19
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2011.05.04

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 11.2. Test Setup



### 11.3. Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

## 11.4. Test Procedure

### **Frequency Stability Under Temperature Variations:**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

### **Frequency Stability Under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

## 11.5. Uncertainty

The measurement uncertainty is defined as  $\pm 100$  Hz

**11.6. Test Result**

Product	:	Wireless LAN access Point
Test Item	:	Frequency Stability
Test Site	:	TR-8
Test Mode	:	Carrier Transmit

Operating Frequency: 5300MHz					
Temp (°C)	Voltage (AC)	Frequency Tolerance (ppm)			
		0 minutes	2 minutes	5 minutes	10 minutes
-30	102	2.14	2.14	2.19	2.18
	120	1.98	1.97	1.96	1.97
	138	2.22	2.21	2.21	2.14
20	102	2.13	2.13	2.19	2.18
	120	1.95	1.95	1.96	1.93
	138	2.21	2.21	2.21	2.14
55	102	2.13	2.13	2.19	2.18
	120	1.98	1.97	1.95	1.94
	138	2.24	2.21	2.16	2.18