

Test Report

Industry Canada RSS-Gen Issue 2/RSS-210 Issue 7
FCC Part15 Subpart C

Product Name : Eee PC
Model No. : Eee PC 1018PB
FCC ID : MSQE18NE785H
IC : 3568A-E18NE785H

Applicant : ASUSTEK COMPUTER INC.

Address : NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C

Date of Receipt : Apr. 27, 2010
Test Date : Apr. 28, 2010 ~ May. 05, 2010
Issued Date : May. 10, 2010
Report No. : 104S058R-RF-US-P05V01
Report Version : V1.0

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.

This report must not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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Test Report Certification

Issued Date : May. 10, 2010

Report No. : 104S058R-RF-US-P05V01



Product Name : Eee PC
 Applicant : ASUSTEK COMPUTER INC.
 Address : NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C
 Manufacturer(1) : PEGATRON CORP TAOYUAN MFG
 Address(1) : 5, SHING YEH ST., KWEI SHAN HSIANG, TAOYUAN
 333, TAIWAN
 Manufacturer(2) : PROTEK (SHANGHAI) LTD
 Address(2) : 3768 XIU YAN RD KANG QIAO TOWN PU DONG NEW
 District, Shanghai, China
 Manufacturer(3) : FULIN ELECTRONICAL TECHONOLOGY
 (CHANGSHU) CO LTD
 Address(3) : HUANGPU RD DONGNAN ECONOMICAL
 DEVELOPMENT ZONE CHANGSHU JIANGSU CHINA
 Manufacturer(4) : FUXIANG PRECISION INDUSTRIAL (KUNSHAN) CO
 LTD
 Address(4) : 299 NANSONG RD YU SHAN TOWN KUN SHAN
 JIANGSU CHINA
 Model No. : Eee PC 1018PB
 FCC ID : MSQE18NE785H
 IC : 3568A-E18NE785H
 EUT Voltage : 19Vdc
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
 ANSI C63.4: 2003
 RSS-Gen Issue 2/RSS-210 Issue 7
 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, IC Lab Code: 4075B

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

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

Approved By : Dream Cao
 (Engineering Manager: Dream Cao)

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:

Taiwan R.O.C.	: BSMI, NCC, TAF
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

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/emc/accreditations/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



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



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



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1. General Information

1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee PC 1018PB
EUT Voltage	19Vdc
WLAN Module	AW-NE785H
Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Tech. of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 135 Mbps
Channel Control	Auto
Antenna Delivery	1*Tx + 1*Rx
Antenna Type	PIFA
Peak Antenna Gain	2.12 dBi for 2.4GHz band

Channel List

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

Antenna Information:

Antenna	Manufacturer	Model No.	Antenna Gain(dBi)
PIFA	ACON	APP6P-700415	2.12

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 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11 n (20MHz)
Mode 4: Transmit by 802.11n (40MHz)

Note:

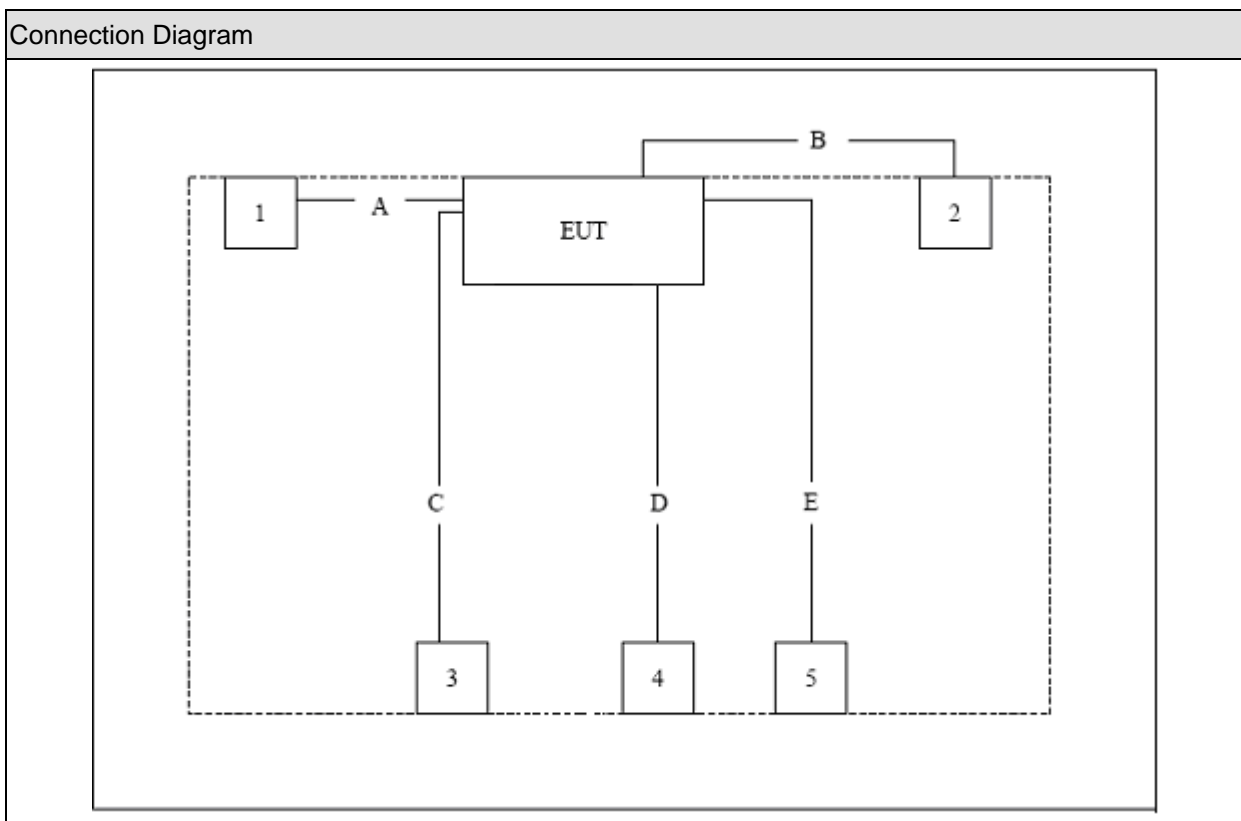
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The report number is 104393R.

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 LCD Monitor	Lenovo	L2240pwD	9M0337992301042	Non-Shielded, 1.8m
2 Printer	EPSON	P950A	3KTE013597	Non-Shielded, 1.8m
3 iPod	Apple	A1199	6U715UPHVQ5	Power by PC
4 USB Mouse	DELL	MO56UOA	F1B03EZZ	Power by PC
5 Microphone & Earphone	SOMIC	CD-2688M.V	N/A	N/A

1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.8m, with two ferrite core bonded
B	USB Cable	Non-Shielded, 1.8m
C	USB Cable	Shielded, 1.0m
D	USB Cable	Shielded, 1.8m
E	Earphone & Microphone Cable	Non-Shielded, 2.1m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above
2	Turn on the power of equipment.
3	Run control software "ART V1.4" provided by applicant.
4	Select test channel and test mode for test.

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
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2008 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(e)	Yes	No

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	RSS-Gen Issue 2 June 2007 Section 7.2.2	Yes	No
Radiated Emission	RSS-210 Issue 7 June 2007 Section 2.7 Table 2 and Table 3	Yes	No
RF Antenna Conducted Spurious	RSS-210 Issue 7 June 2007 Section A8.5	Yes	No
Radiated Emission Band Edge	RSS-210 Issue 7 June 2007 Section A8.5	Yes	No
Occupied Bandwidth	RSS-Gen Issue 2 June 2007 Section 4.6.1 and 4.6.2 RSS-210 Issue 7 June 2007 Section A8.2(1)	Yes	No
Power Output	RSS-210 Issue 7 June 2007 Section A8.4(4)	Yes	No
Power Spectral Density	RSS-210 Issue 7 June 2007 Section A8.2(2)	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

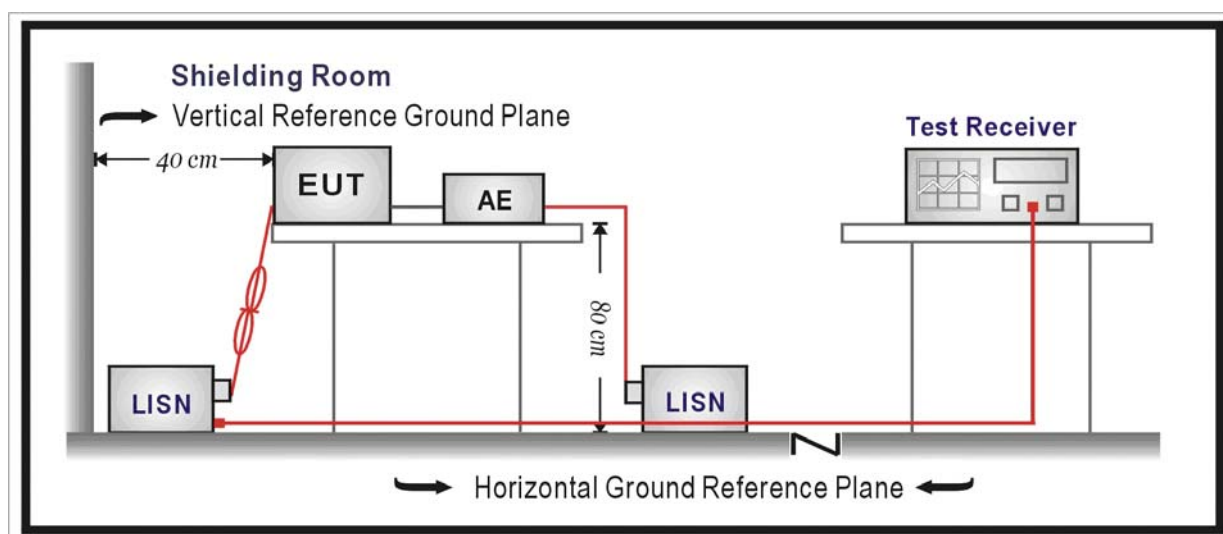
3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2010.04.23
Two-Line V-Network	R&S	ENV216	100043	2009.09.07
Two-Line V-Network	R&S	ENV216	100044	2009.09.07
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2010.05.25
50ohm Termination	SHX	TF2	07081401	2009.09.29
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2010.01.14

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, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. 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.

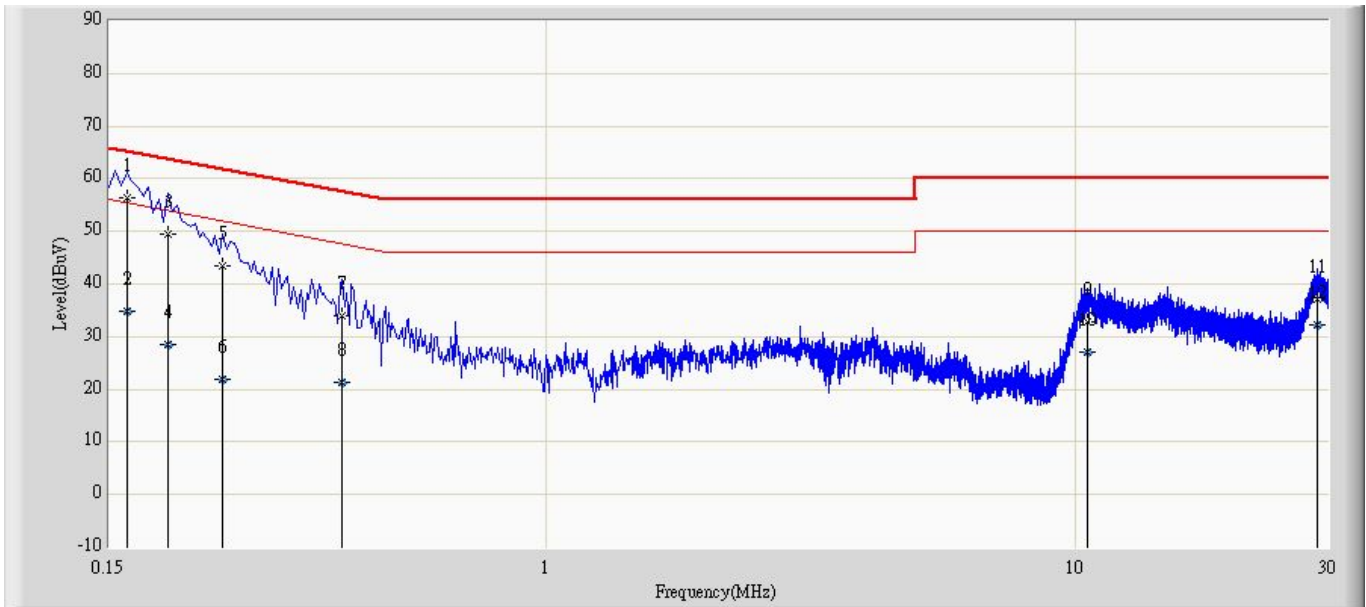
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

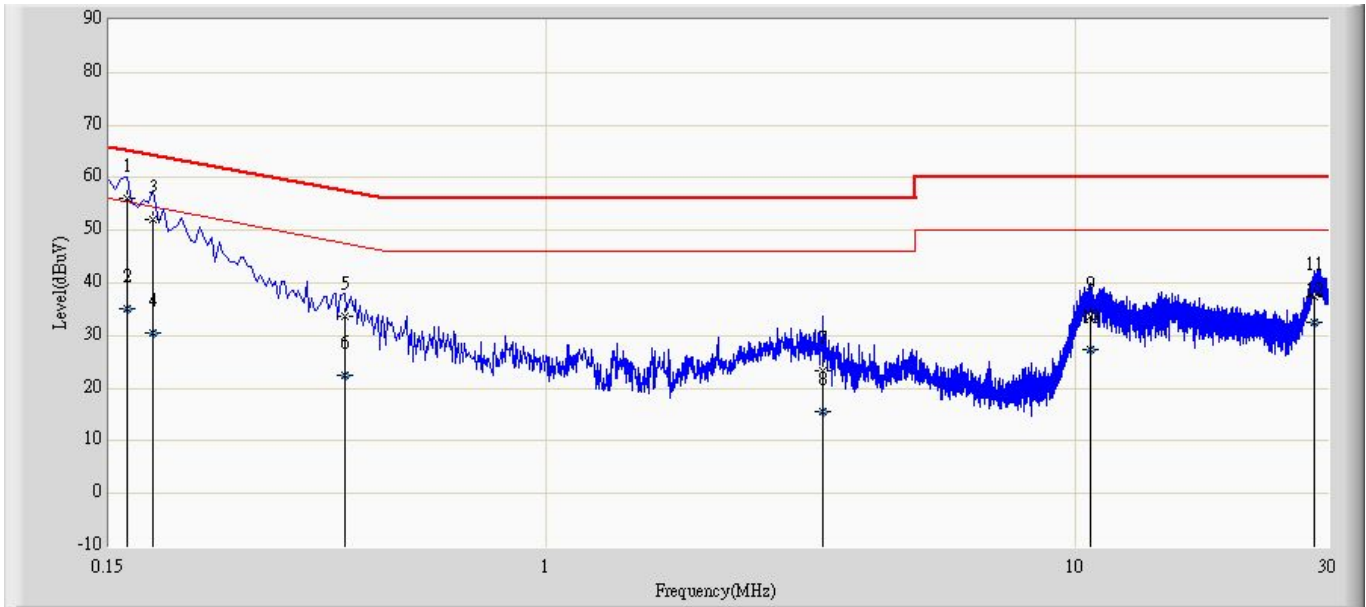
3.6. Test Result

Engineer: Seven	
Site: TR1	Time: 2010/04/29 - 13:53
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Line
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1		*	0.162	56.452	46.863	-8.909	65.361	9.589	QP
2			0.162	34.951	25.362	-20.41	55.361	9.589	AV
3			0.194	49.383	39.725	-14.48	63.864	9.658	QP
4			0.194	28.557	18.899	-25.307	53.864	9.658	AV
5			0.246	43.496	33.816	-18.396	61.891	9.68	QP
6			0.246	21.8	12.12	-30.091	51.891	9.68	AV
7			0.414	33.943	24.255	-23.625	57.568	9.688	QP
8			0.414	21.326	11.637	-26.242	47.568	9.688	AV
9			10.522	32.883	22.9	-27.117	60	9.983	QP
10			10.522	27.015	17.032	-22.985	50	9.983	AV
11			28.61	37.25	26.77	-22.75	60	10.48	QP
12			28.61	32.248	21.768	-17.752	50	10.48	AV

Engineer: Seven	
Site: TR1	Time: 2010/04/29 - 14:00
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Neutral
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1		*	0.162	56.229	46.487	-9.132	65.361	9.741	QP
2			0.162	35.187	25.445	-20.174	55.361	9.741	AV
3			0.182	52.011	42.318	-12.383	64.394	9.693	QP
4			0.182	30.612	20.919	-23.781	54.394	9.693	AV
5			0.418	33.613	23.946	-23.875	57.488	9.667	QP
6			0.418	22.495	12.828	-24.993	47.488	9.667	AV
7			3.334	23.372	13.599	-32.628	56	9.773	QP
8			3.334	15.503	5.729	-30.497	46	9.773	AV
9			10.718	33.601	23.581	-26.399	60	10.021	QP
10			10.718	27.427	17.406	-22.573	50	10.021	AV
11			28.306	37.413	26.845	-22.587	60	10.568	QP
12			28.306	32.501	21.933	-17.499	50	10.568	AV

4. Radiated Emission

4.1. Test Equipment

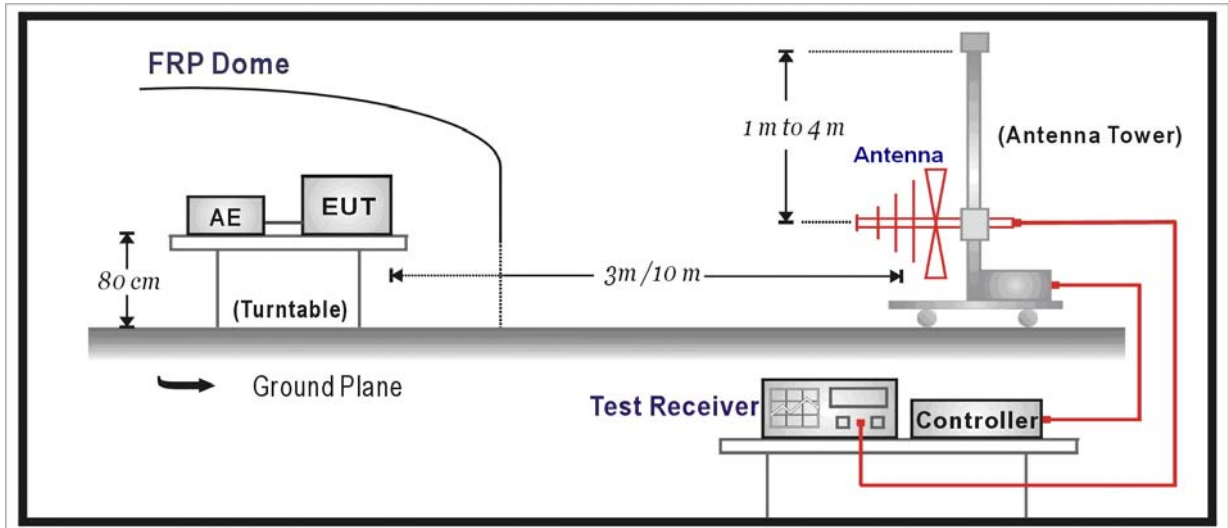
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2010.04.23
EMI Test Receiver	R&S	ESCI	100906	2010.01.15
Preamplifier	Quietek	AP-180C	CHM-0602013	2010.05.05
Preamplifier	Quietek	AP-040G	CHM-0906001	2010.05.05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2009.11.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2009.06.11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2010.03.03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2010.03.03
Lowpass Filter	Wainwright	WLKS4500-9SS	SN2	2009.03.03
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2010.01.14

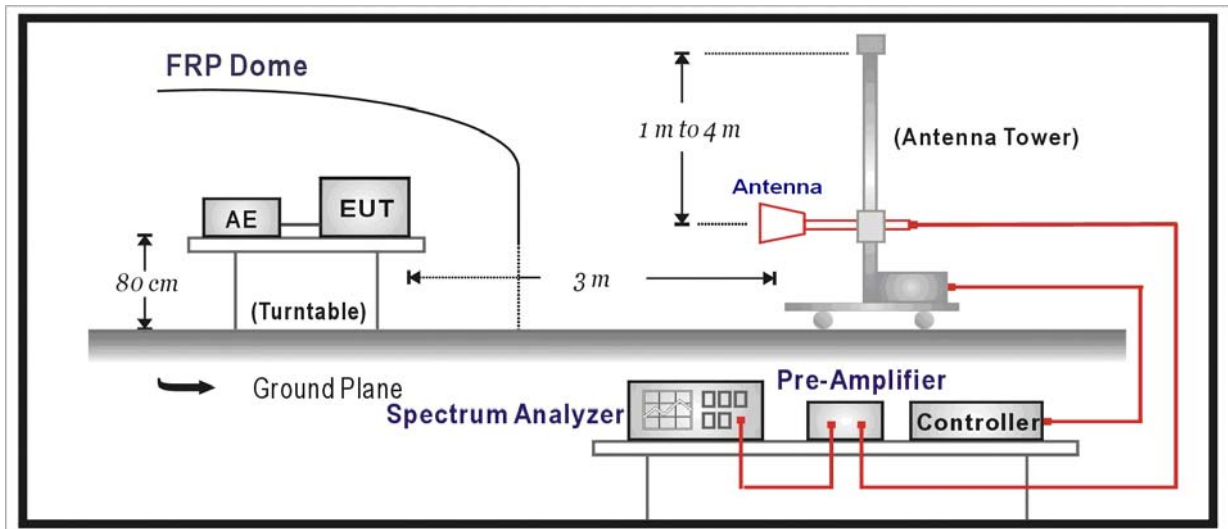
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 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 C63.4:2003 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 10~60 degrees for H-plane and 10~90 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.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

802.11b

CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2410.3	71.4	30.5	101.9	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4824.0	52.2	-14.0	38.2	54	-15.8	PK
	H	7236.0	49.4	-5.5	43.9	54	-10.1	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	74.4	31.2	105.6	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4874.0	54.8	-13.6	39.7	54	-14.3	PK
	H	7311.0	51.8	-5.3	45.9	54	-8.1	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2455.8	76.4	30.8	107.2	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4924.0	60.3	-13.7	43.8	54	-10.2	PK
	H	7386.0	51.9	-5.0	47.5	54	-6.5	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2406.7	70.5	30.5	101.0	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4824.0	53.1	-14.0	39.1	54	-14.4	PK
	H	7236.0	49.7	-5.5	44.2	54	-9.8	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.1	71.0	30.6	101.6	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4874.0	52.8	-13.6	39.2	54	-14.8	PK
	H	7311.0	50.7	-5.3	45.4	54	-8.6	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2464.6	71.1	30.7	101.8	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4924.0	56.8	-13.7	43.1	54	-10.9	PK
	H	7386.0	52.3	-5.0	47.3	54	-6.7	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(20MHz)

CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2408.9	68.9	30.5	99.4	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4824.0	51.9	-14.0	37.9	54	-16.1	PK
	H	7236.0	49.7	-5.5	44.2	54	-9.8	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2439.3	69.6	30.6	100.2	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4874.0	53.9	-13.6	40.3	54	-13.7	PK
	H	7311.0	51.5	-5.3	46.2	54	-7.8	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
11	H	2457.4	67.4	30.7	98.1	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4924.0	58.8	-13.7	45.1	54	-8.9	PK
	H	7386.0	53.8	-5.0	48.8	54	-5.2	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(40MHz)

CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	2410.8	60.3	30.5	90.8	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4844.0	52.5	-14.0	38.5	54	-15.5	PK
	H	7266.0	50.1	-5.5	44.6	54	-9.4	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	61.8	30.6	92.4	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4874.0	52.5	-13.6	38.9	54	-15.1	PK
	H	7311.0	51.7	-5.3	46.4	54	-7.6	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK
9	H	2455.1	61.4	30.8	92.2	Fundamental	/	PK
	V	336.0	12.7	16.6	29.3	46	-16.7	QP
	V	415.2	11.2	20.4	31.6	46	-14.4	QP
	V	3201.5	58.2	-17.1	41.1	54	-12.9	PK
	H	4904.0	58.8	-13.7	45.1	54	-8.9	PK
	H	7356.0	53.4	-5.0	48.4	54	-5.6	PK
	H	24000.0	59.1	-8.9	50.2	54	-3.8	PK

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

5. RF Antenna Conducted Spurious

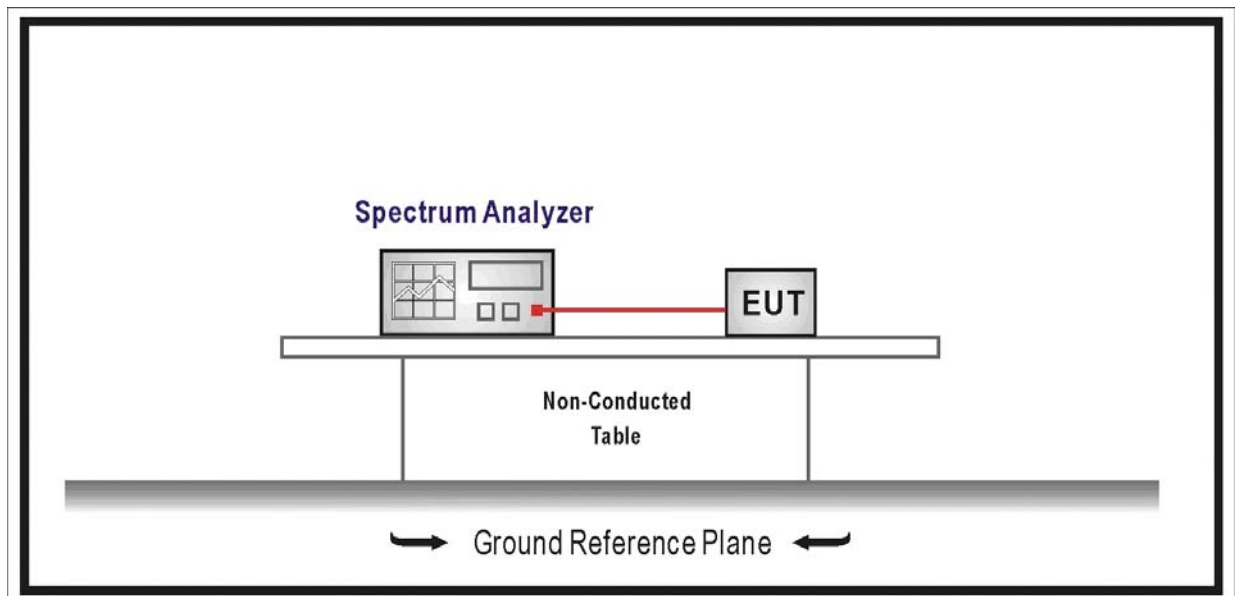
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2010.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

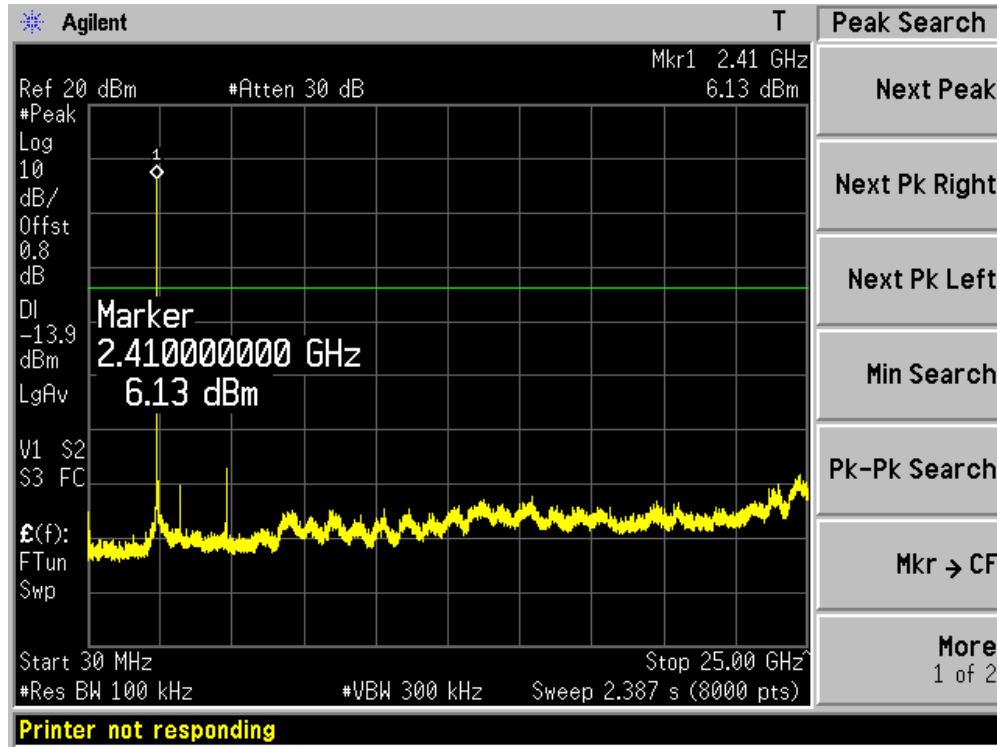
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

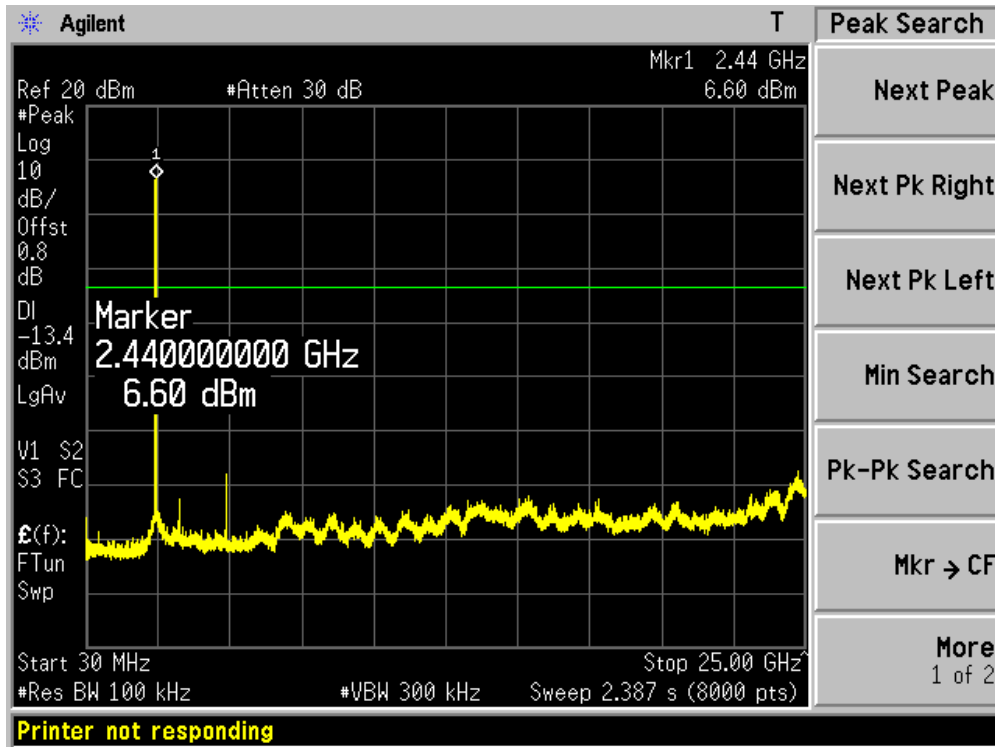
5.6. Test Result

Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 1: Transmit by 802.11b

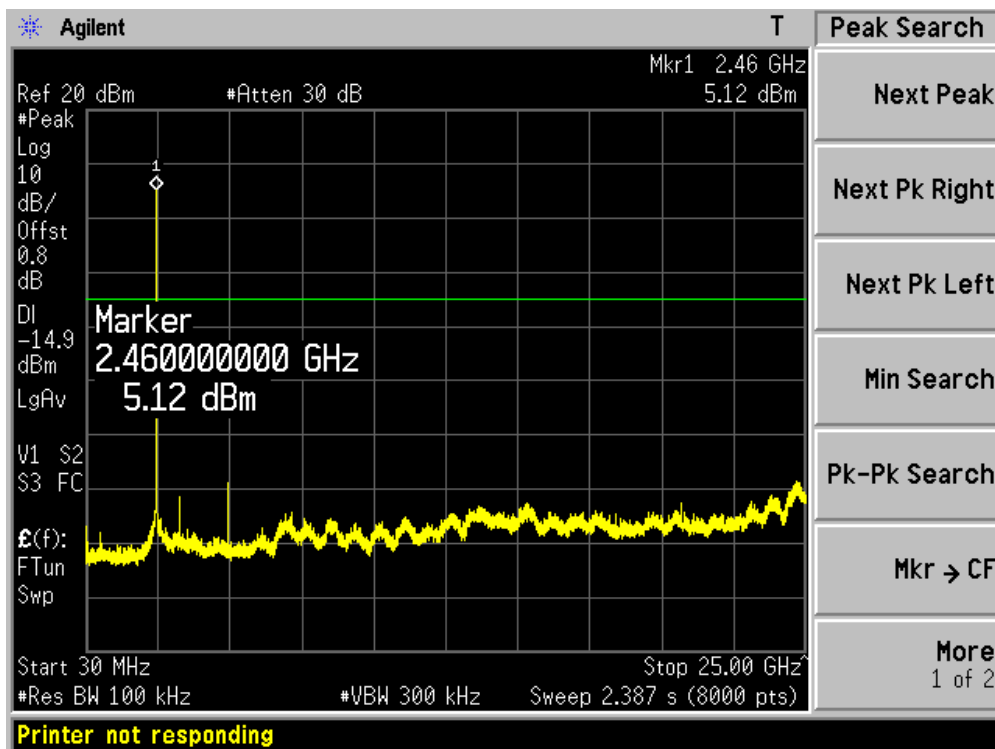
Channel 01 (2412MHz)



Channel 06 (2437MHz)

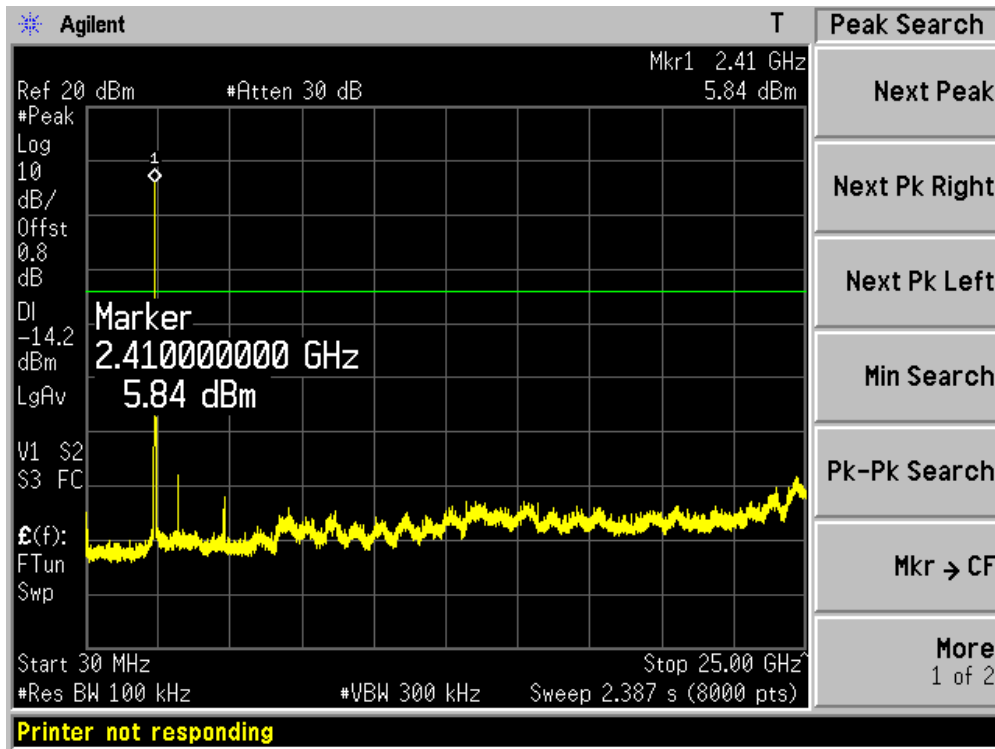


Channel 11 (2462MHz)

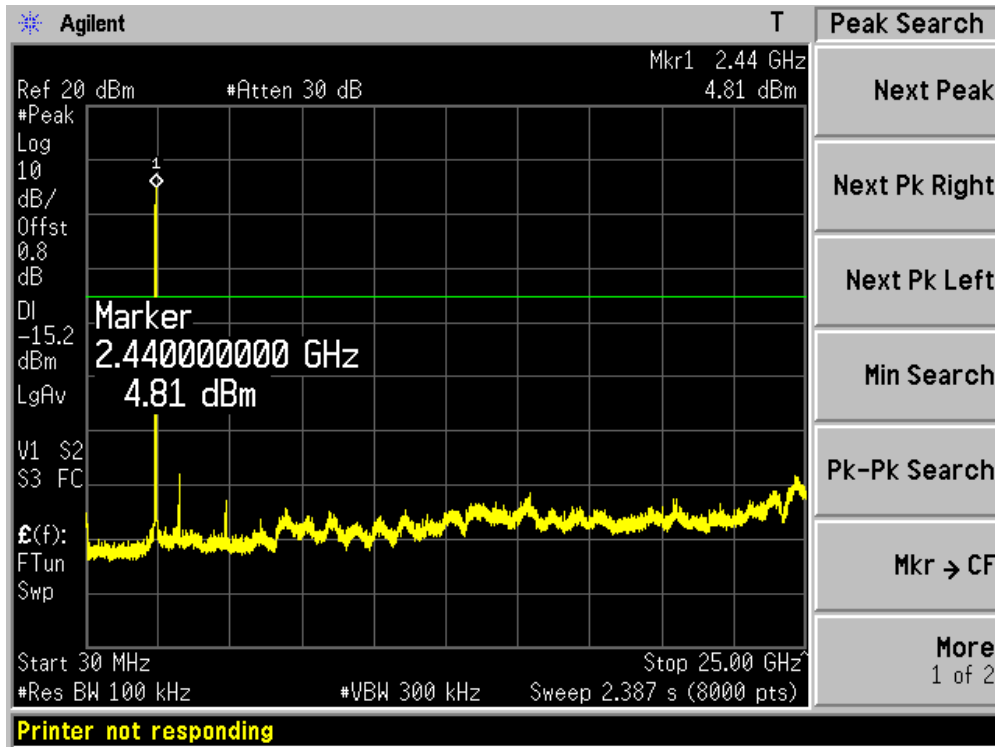


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g

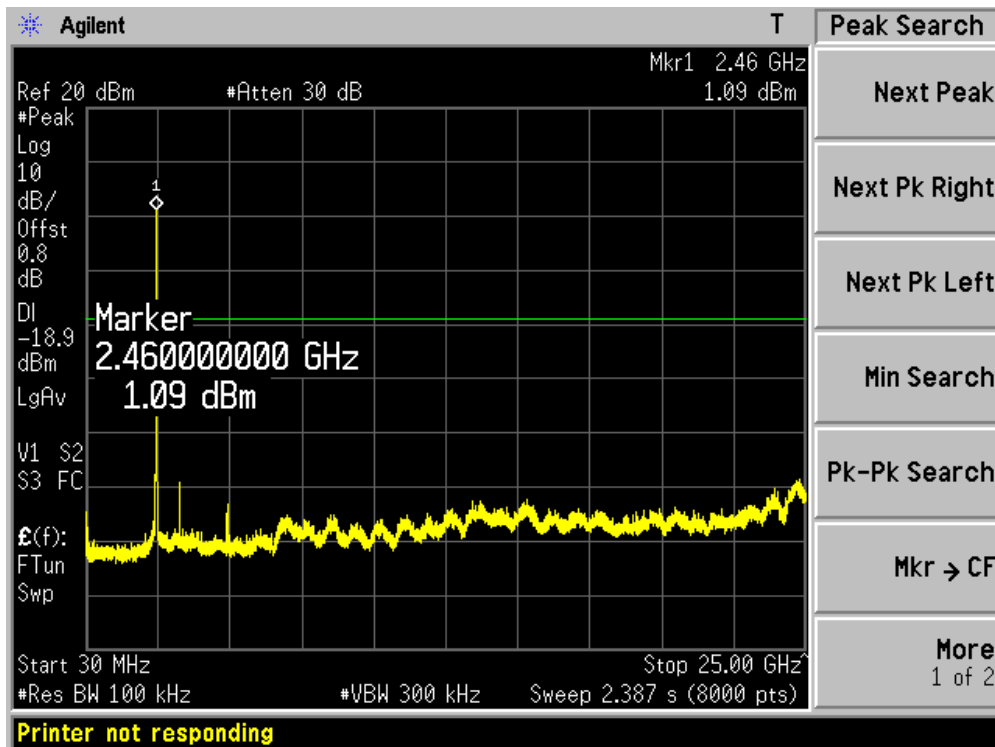
Channel 01 (2412MHz)



Channel 06 (2437MHz)

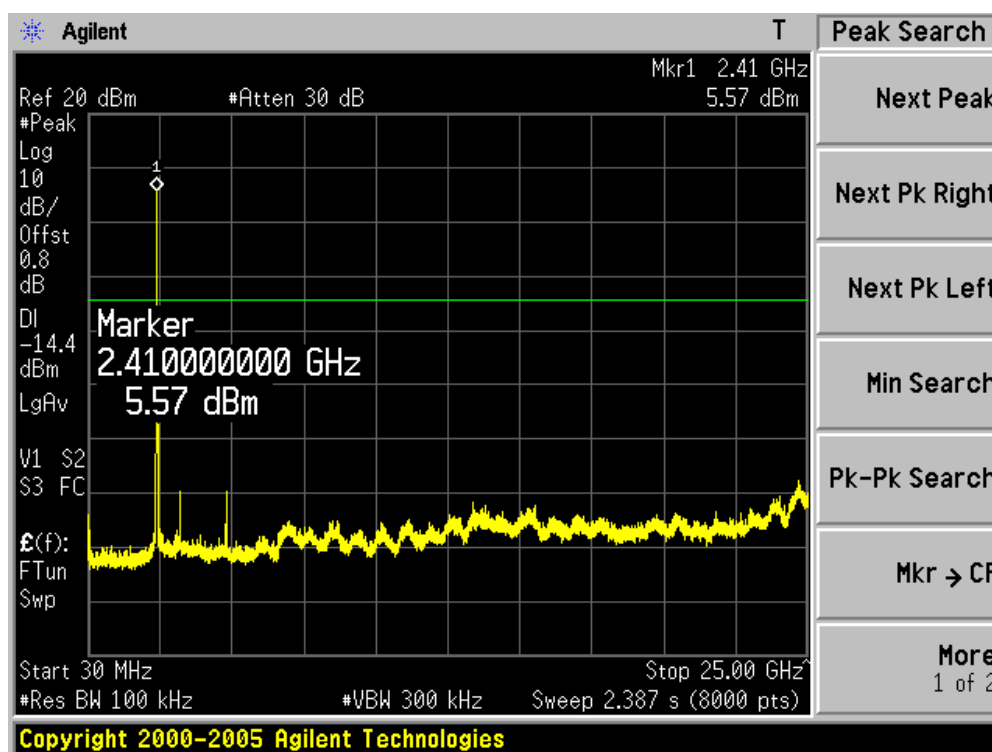


Channel 11 (2462MHz)

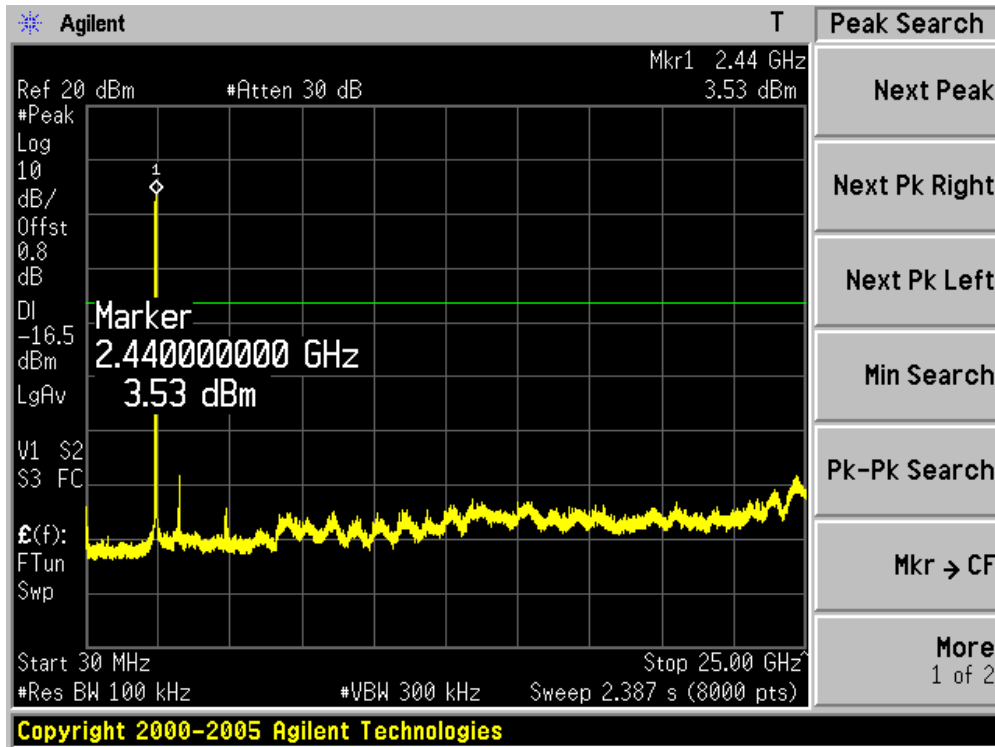


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

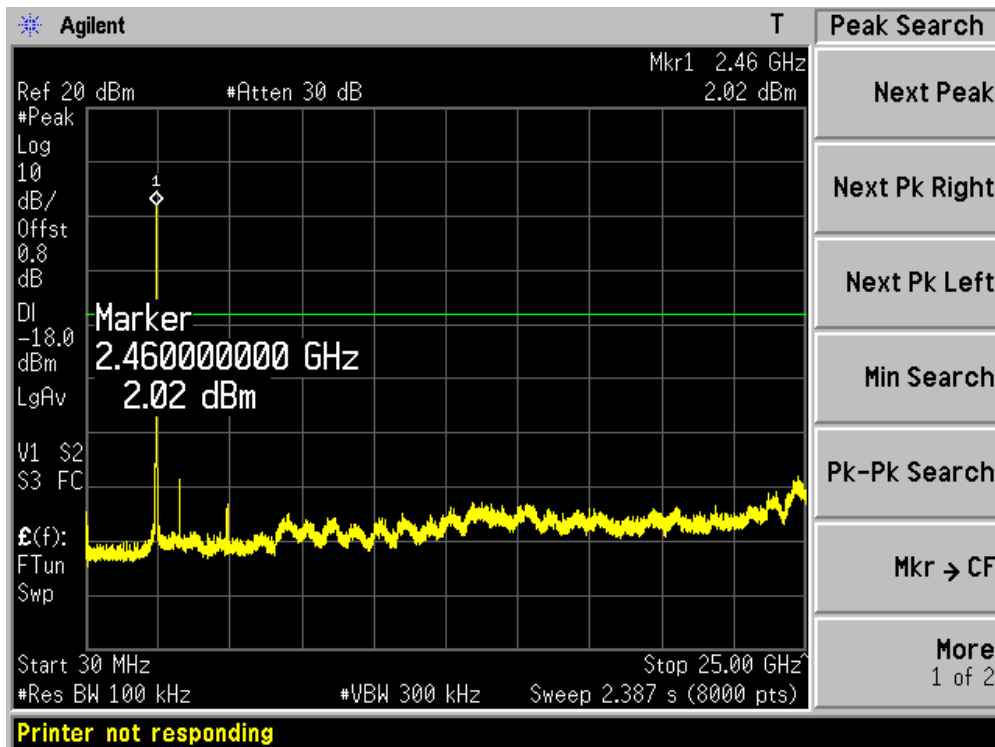
Channel 01 (2412MHz)



Channel 06 (2437MHz)

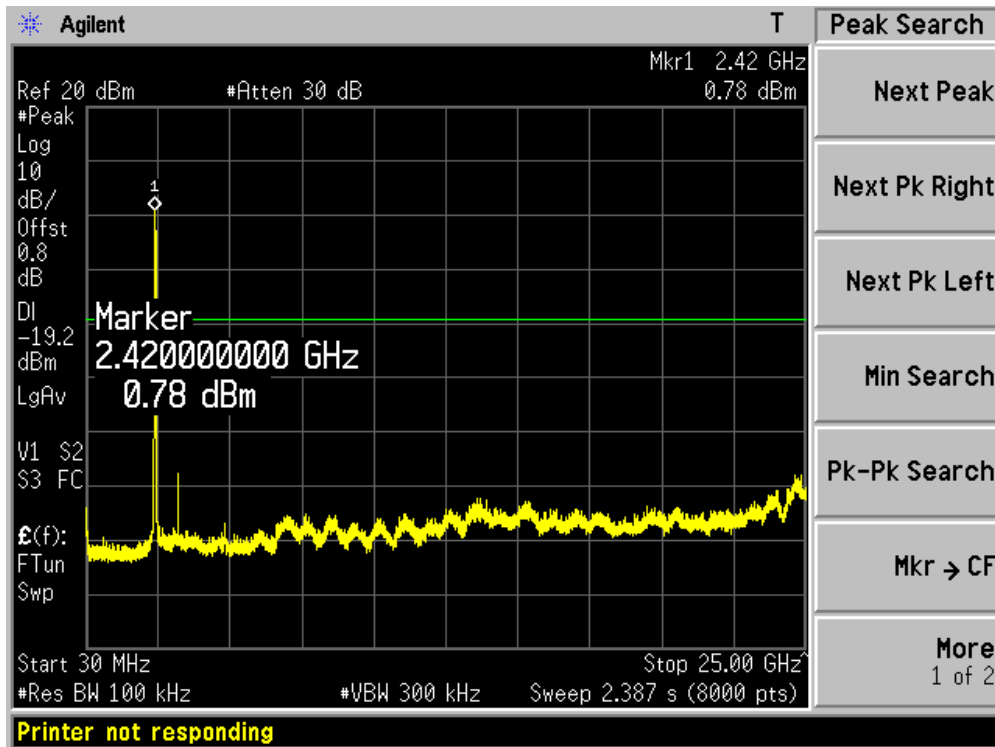


Channel 11 (2462MHz)

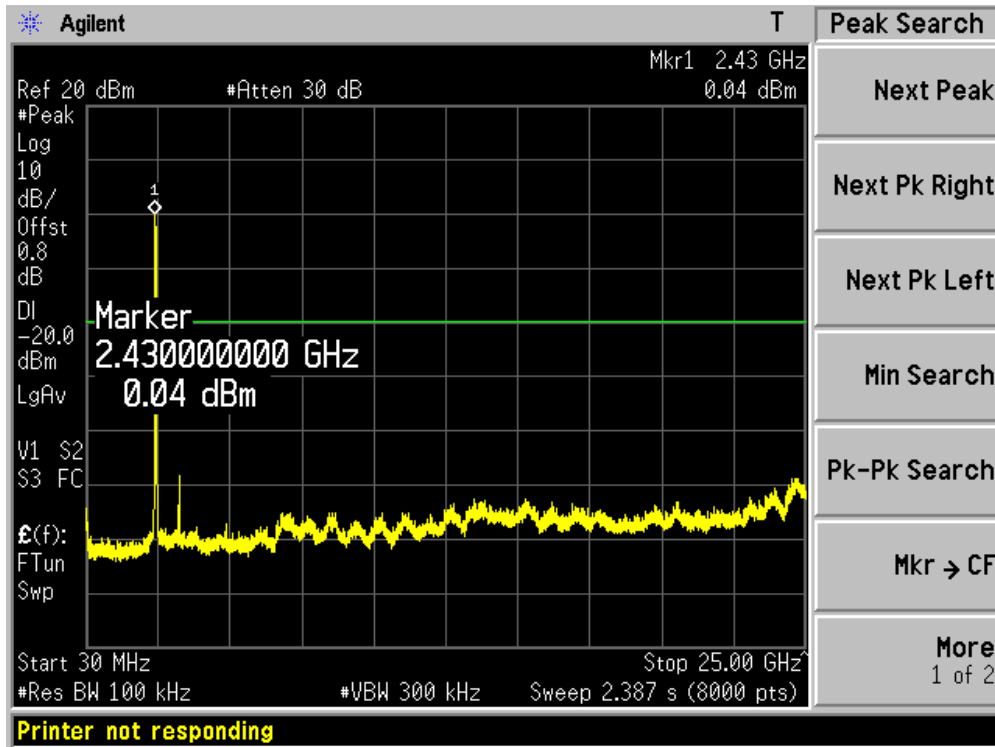


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

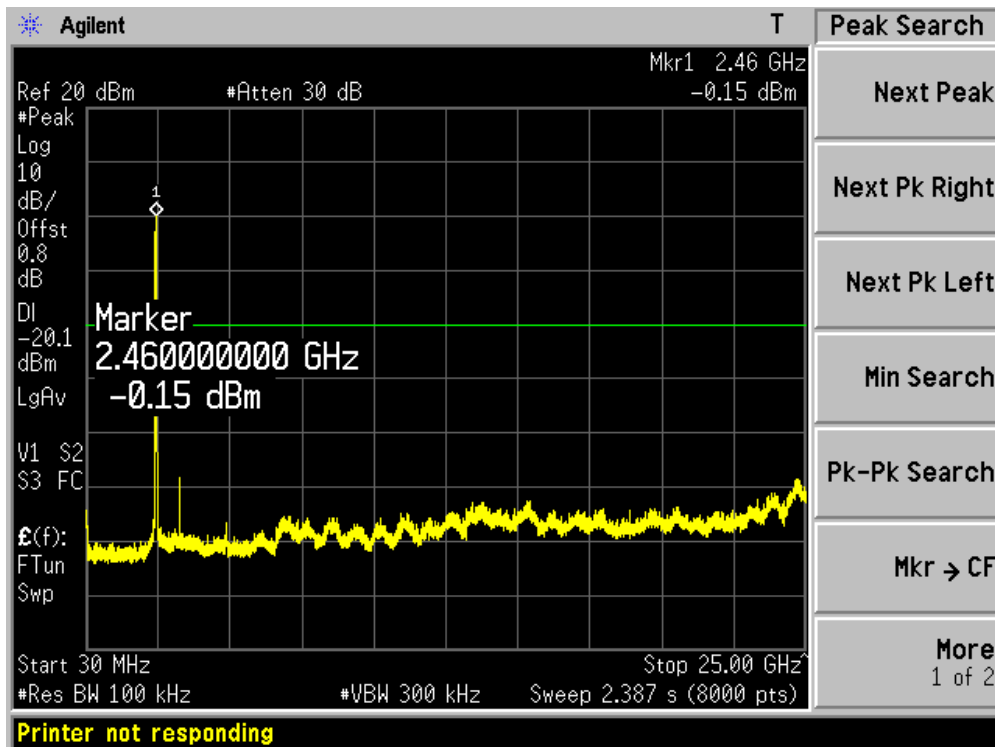
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

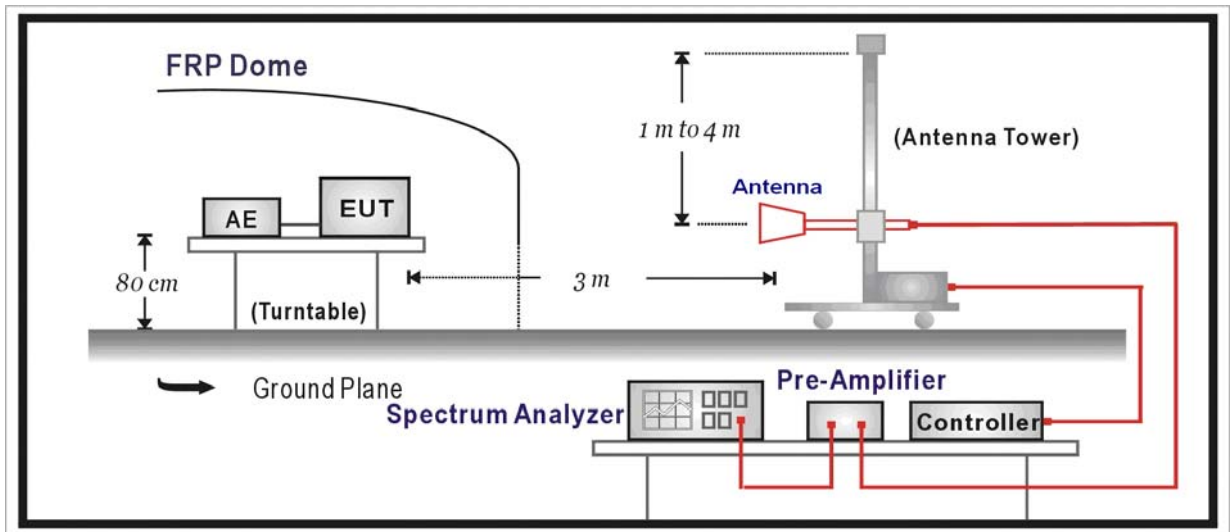
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2010.04.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2009.06.11
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2010.01.14

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

Note 2: The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup



6.3. Limit

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) (see Section 15.205(c)).

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 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 C63.4:2003 on radiated measurement.

6.5. Uncertainty

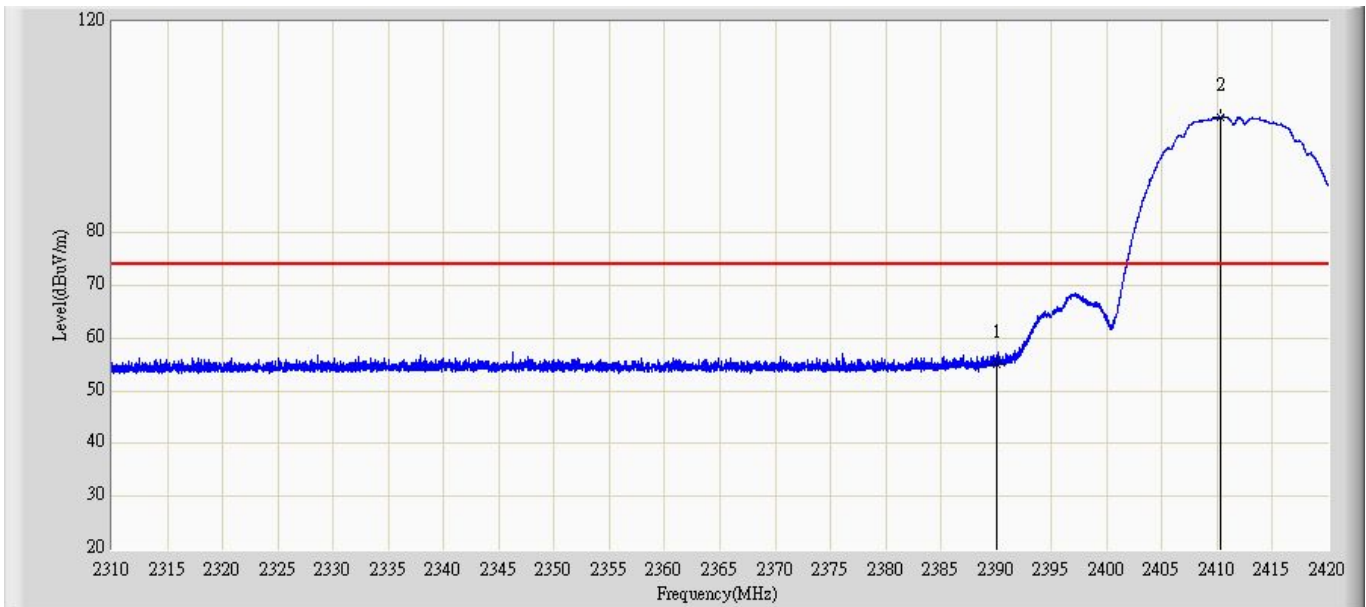
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

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

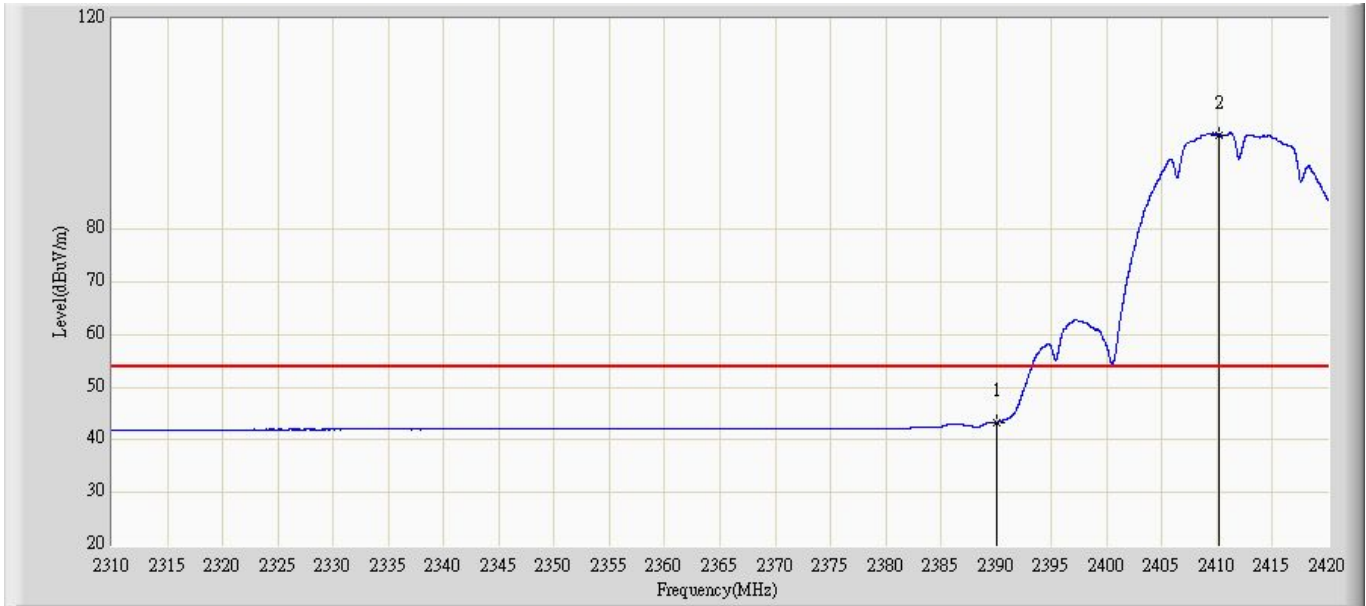
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



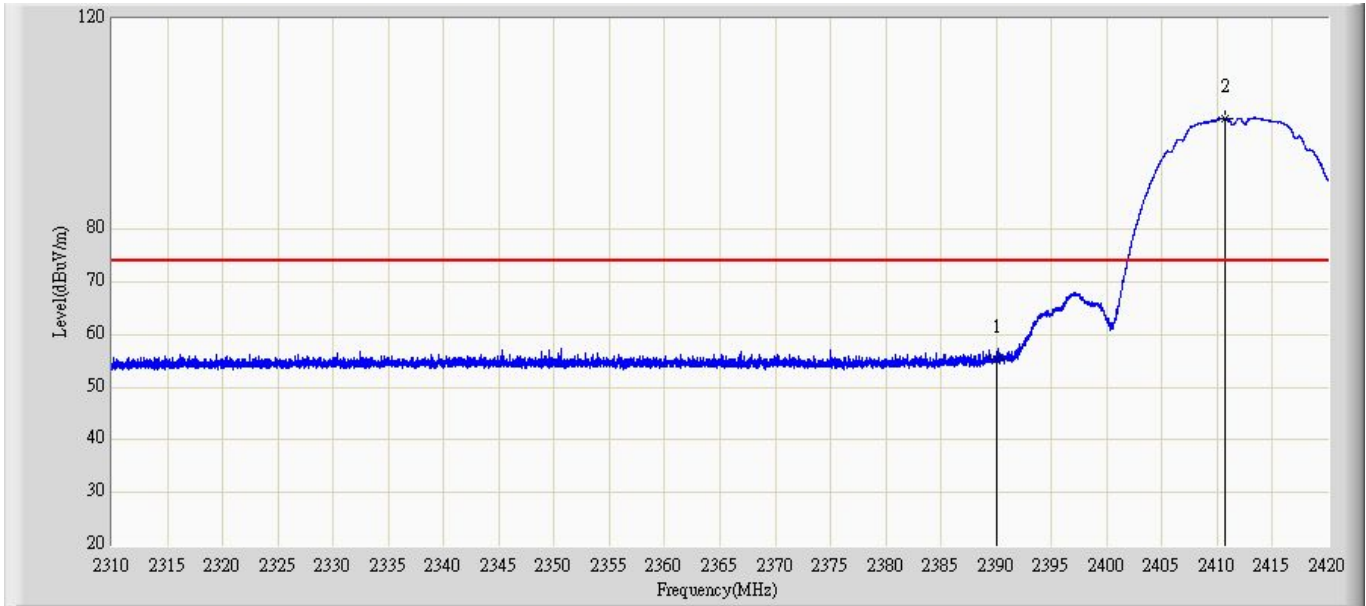
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	55.156	24.612	-18.844	74.000	30.543	PK
2		*	2410.347	101.912	71.344	N/A	N/A	30.568	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 13:50
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



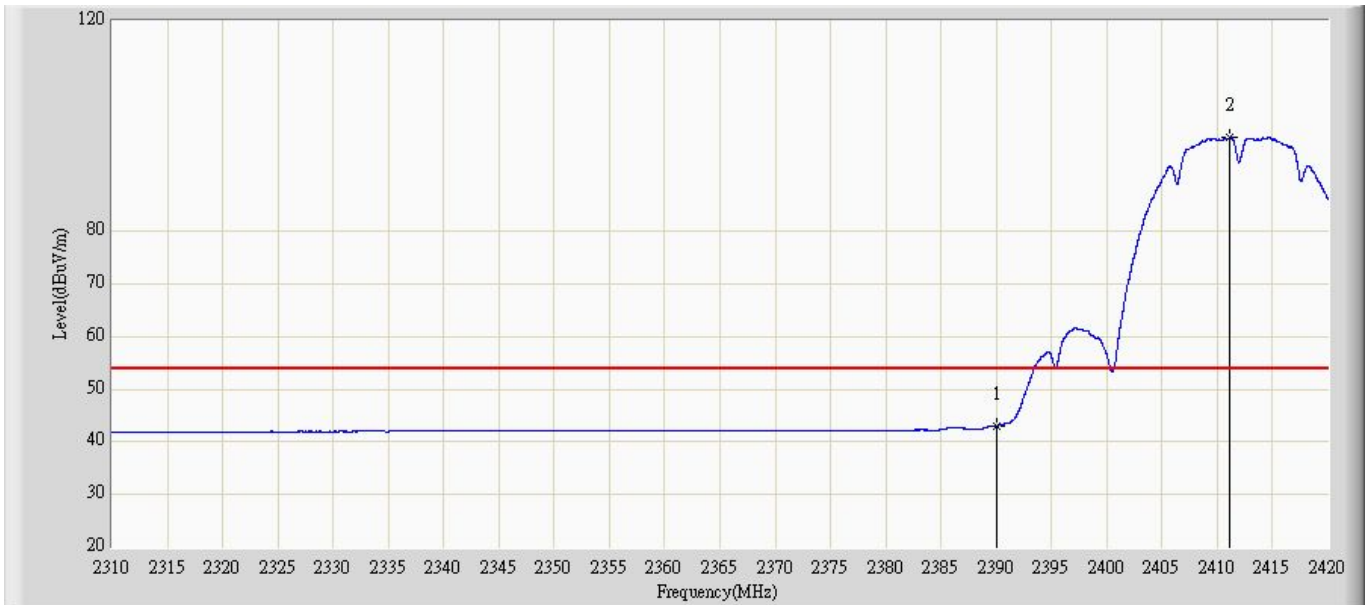
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.298	12.754	-10.702	54.000	30.543	AV
2		*	2410.169	97.991	67.423	N/A	N/A	30.568	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 13:52
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



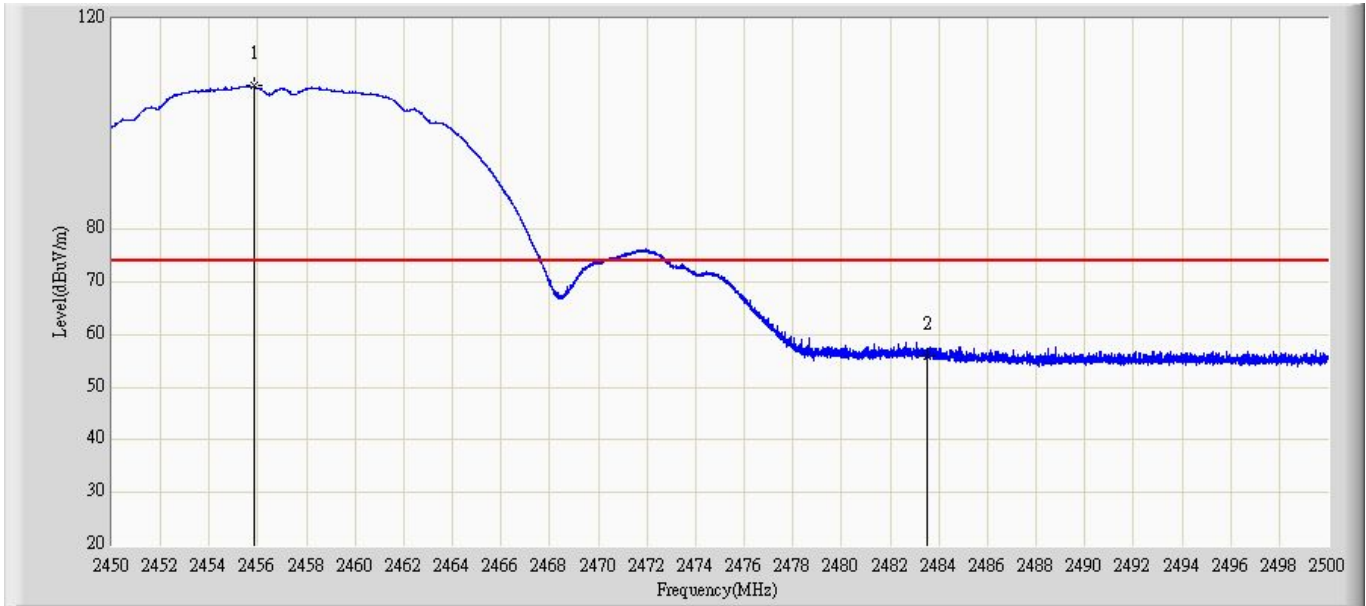
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	55.274	24.730	-18.726	74.000	30.543	PK
2		*	2410.677	101.076	70.507	N/A	N/A	30.569	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 13:55
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	43.003	12.459	-10.997	54.000	30.543	AV
2		*	2411.090	97.803	67.232	N/A	N/A	30.571	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 13:57
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



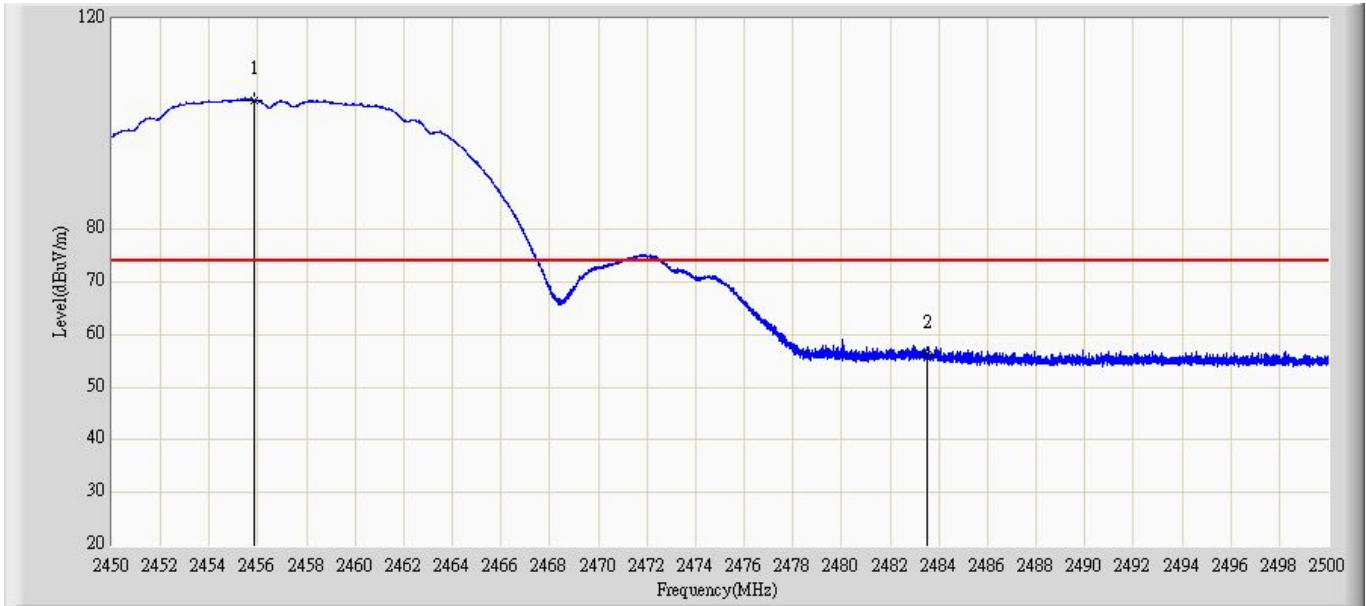
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.837	107.225	76.420	N/A	N/A	30.805	PK
2			2483.500	55.795	25.156	-18.205	74.000	30.638	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 14:05
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.187	103.653	72.849	N/A	N/A	30.804	AV
2			2483.500	44.795	14.156	-9.205	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 14:06
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



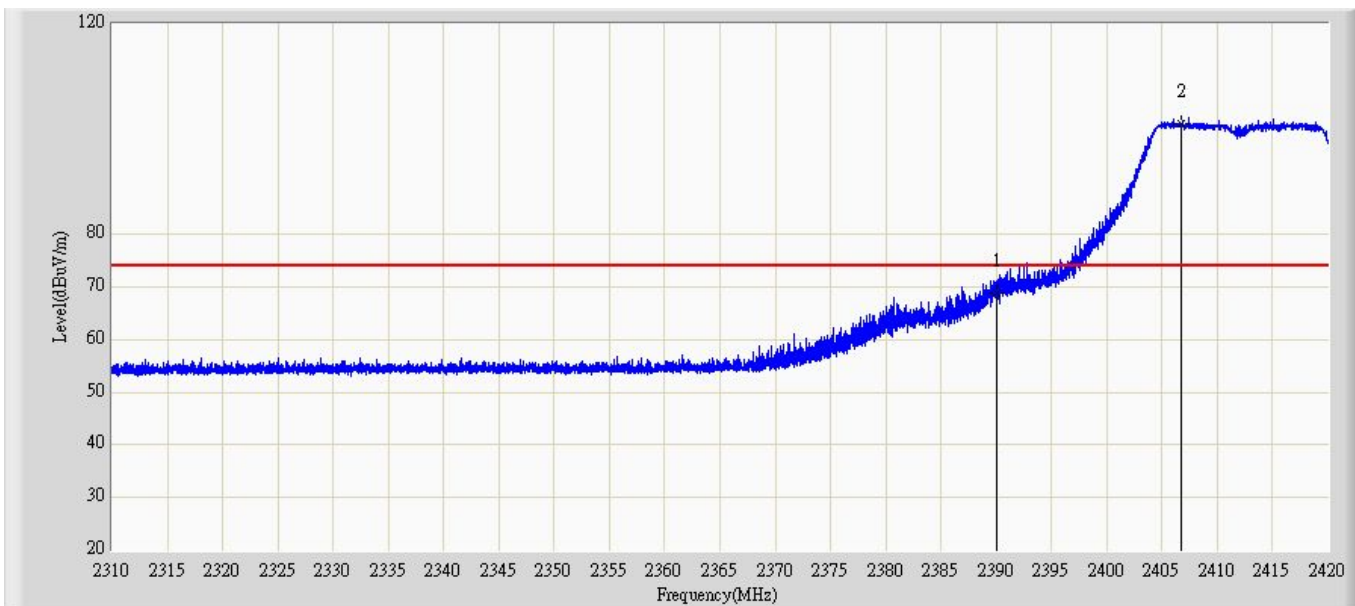
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.875	104.567	73.762	N/A	N/A	30.805	PK
2			2483.500	56.289	25.650	-17.711	74.000	30.638	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 14:14
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



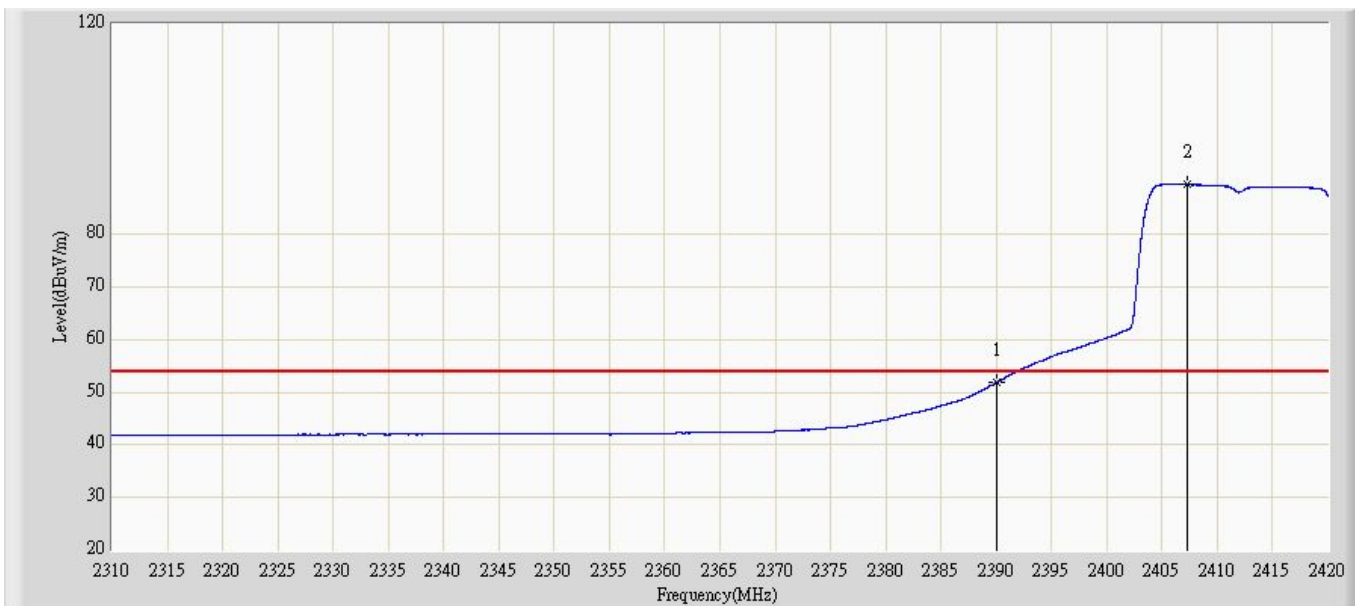
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.262	101.135	70.331	N/A	N/A	30.804	AV
2			2483.500	44.777	14.138	-9.223	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



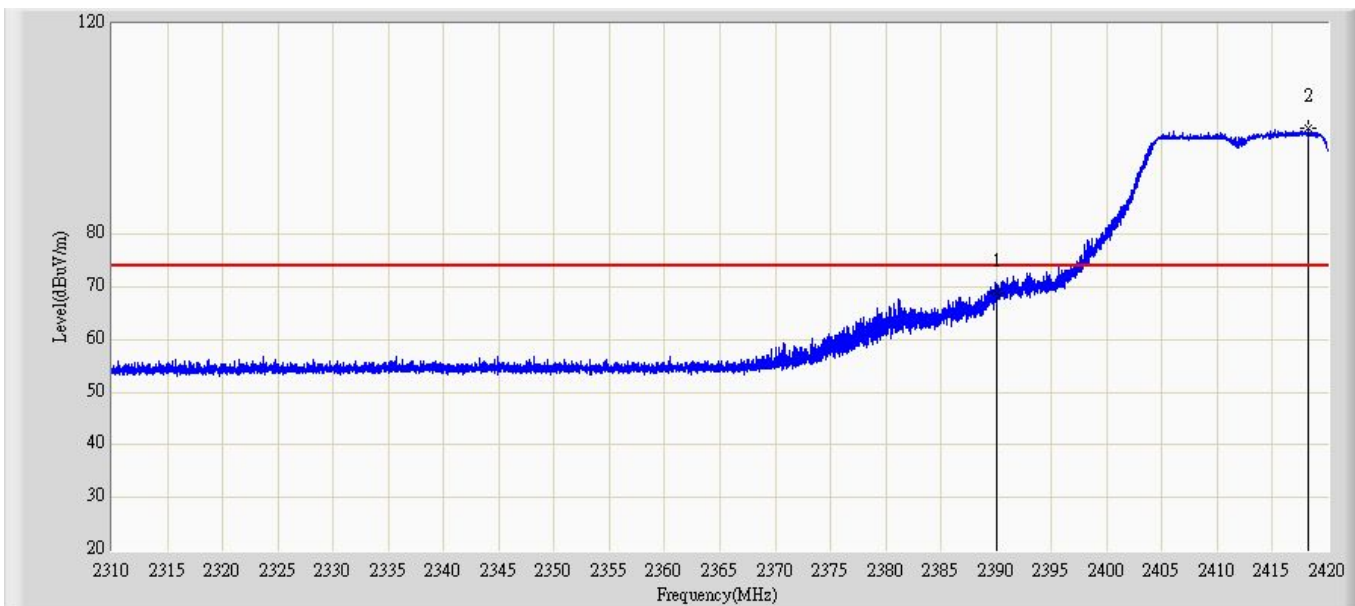
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	68.711	38.167	-5.289	74.000	30.543	PK
2		*	2406.759	101.002	70.444	N/A	N/A	30.558	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



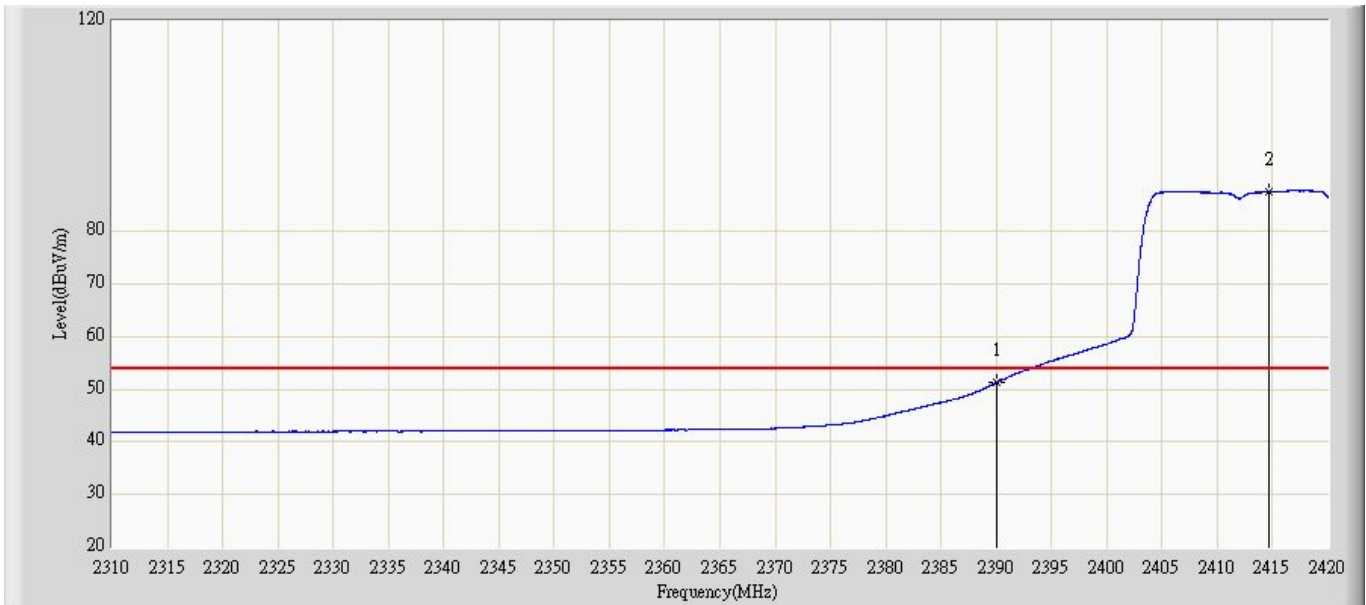
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	51.886	21.342	-2.114	54.000	30.543	AV
2		*	2407.268	89.475	58.916	N/A	N/A	30.559	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



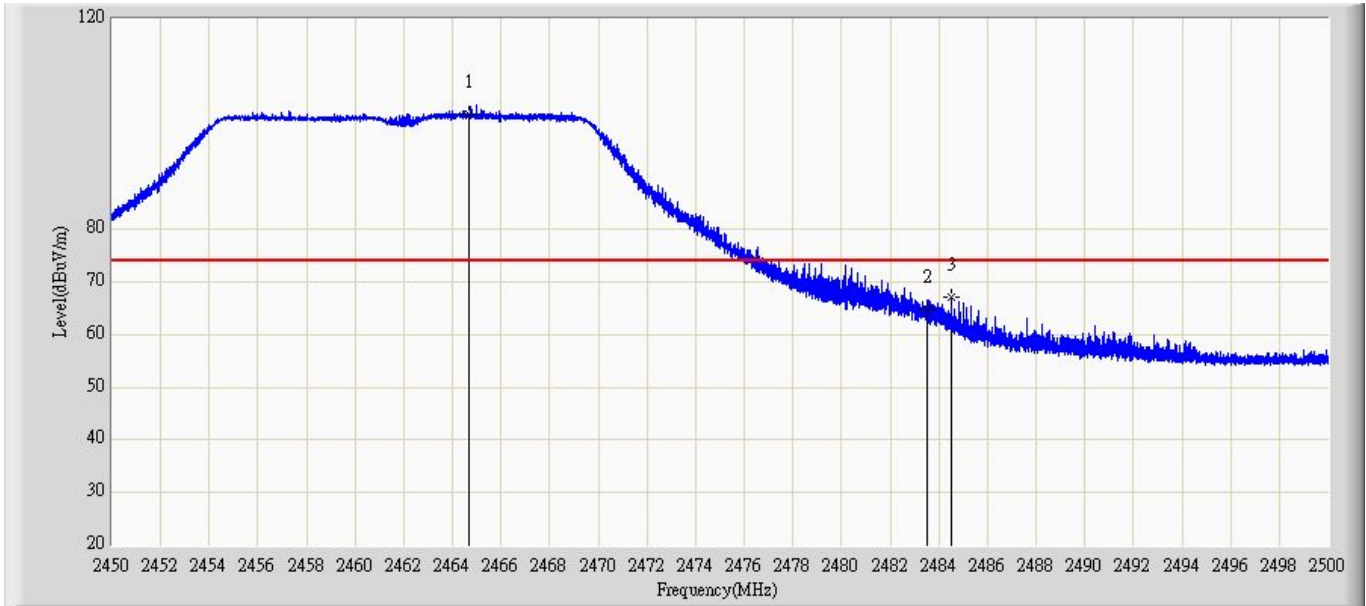
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	68.724	38.180	-5.276	74.000	30.543	PK
2		*	2418.240	100.152	69.518	N/A	N/A	30.634	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



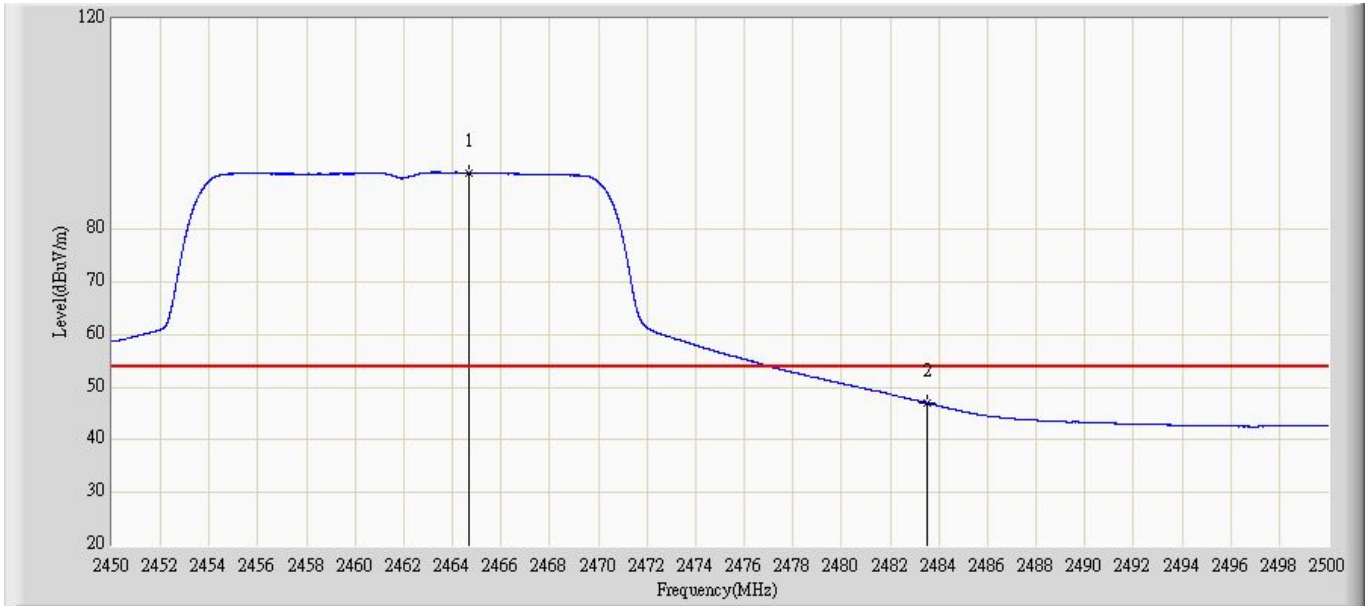
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	51.273	20.729	-2.727	54.000	30.543	AV
2		*	2414.610	87.551	56.949	N/A	N/A	30.602	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



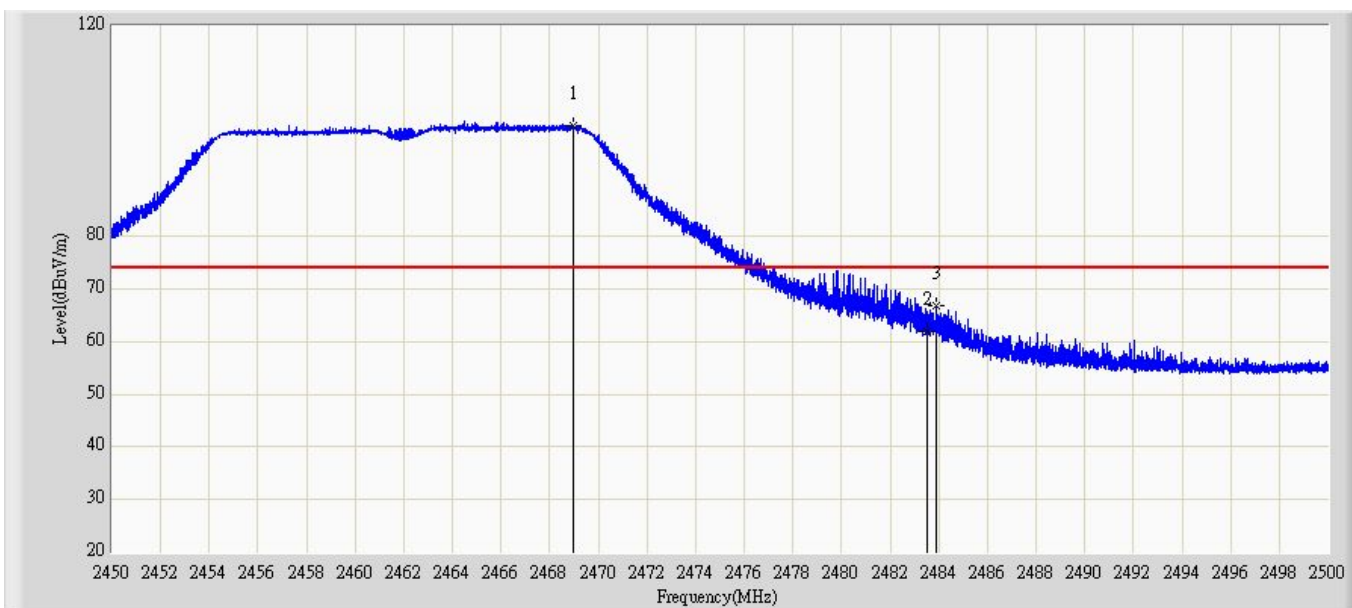
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.669	101.895	71.134	N/A	N/A	30.761	PK
2			2483.500	64.802	34.163	-9.198	74.000	30.638	PK
3			2484.525	67.235	36.601	-6.765	74.000	30.634	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



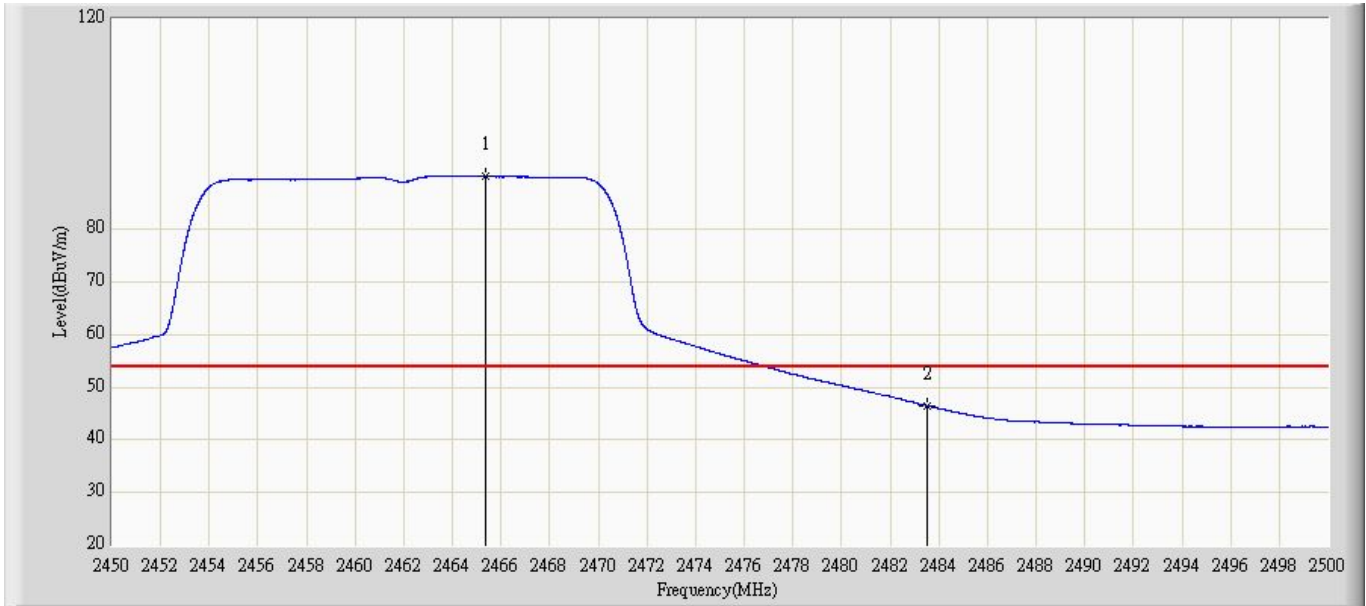
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2464.663	90.712	59.951	N/A	N/A	30.761	AV
2			2483.500	47.052	16.413	-6.948	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



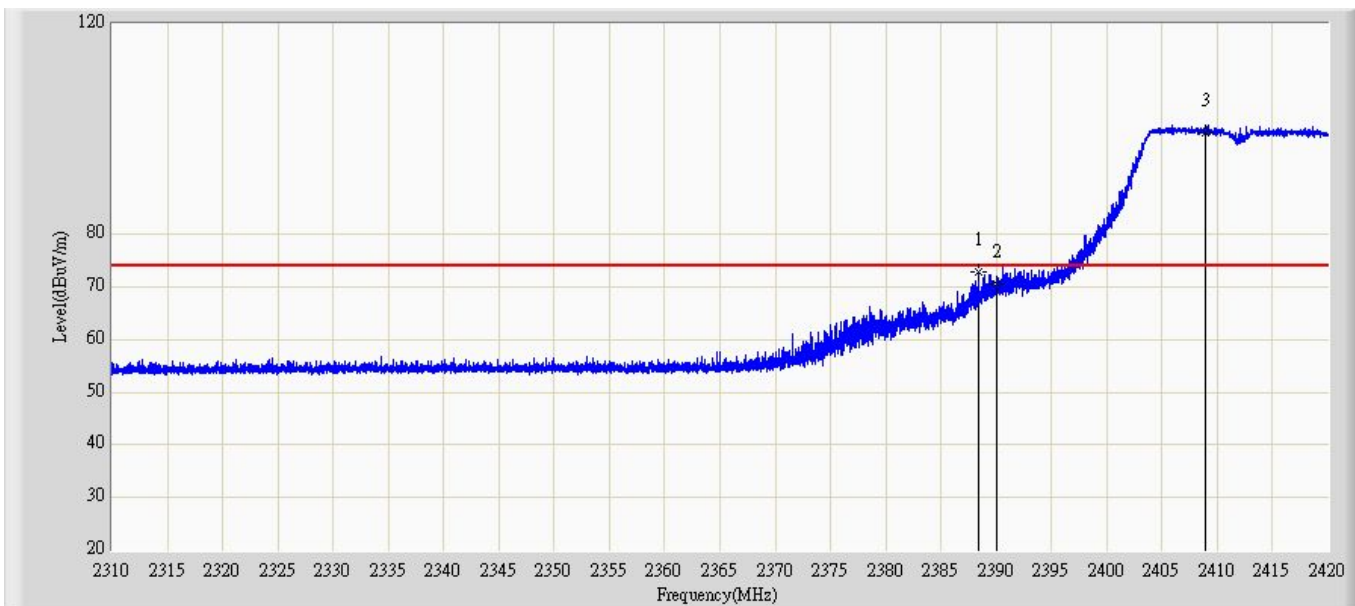
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2468.975	100.962	70.231	N/A	N/A	30.731	PK
2			2483.500	61.974	31.335	-12.026	74.000	30.638	PK
3			2483.881	66.906	36.269	-7.094	74.000	30.637	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



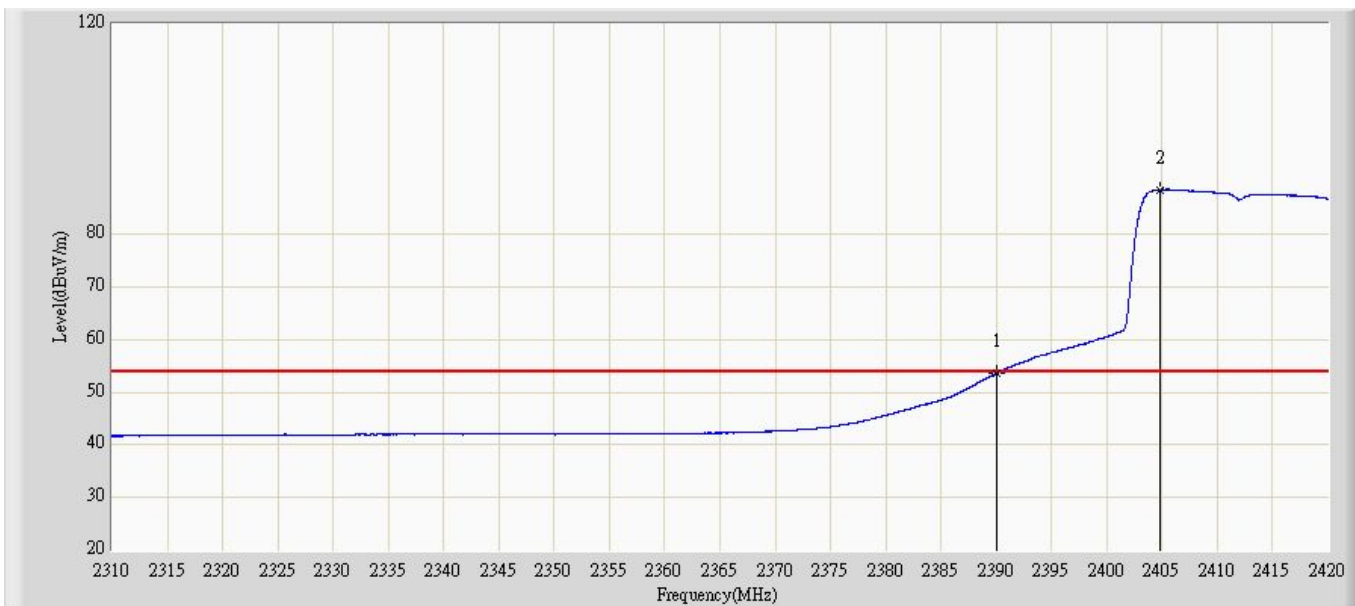
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2465.369	90.029	59.273	N/A	N/A	30.756	AV
2			2483.500	46.533	15.894	-7.467	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



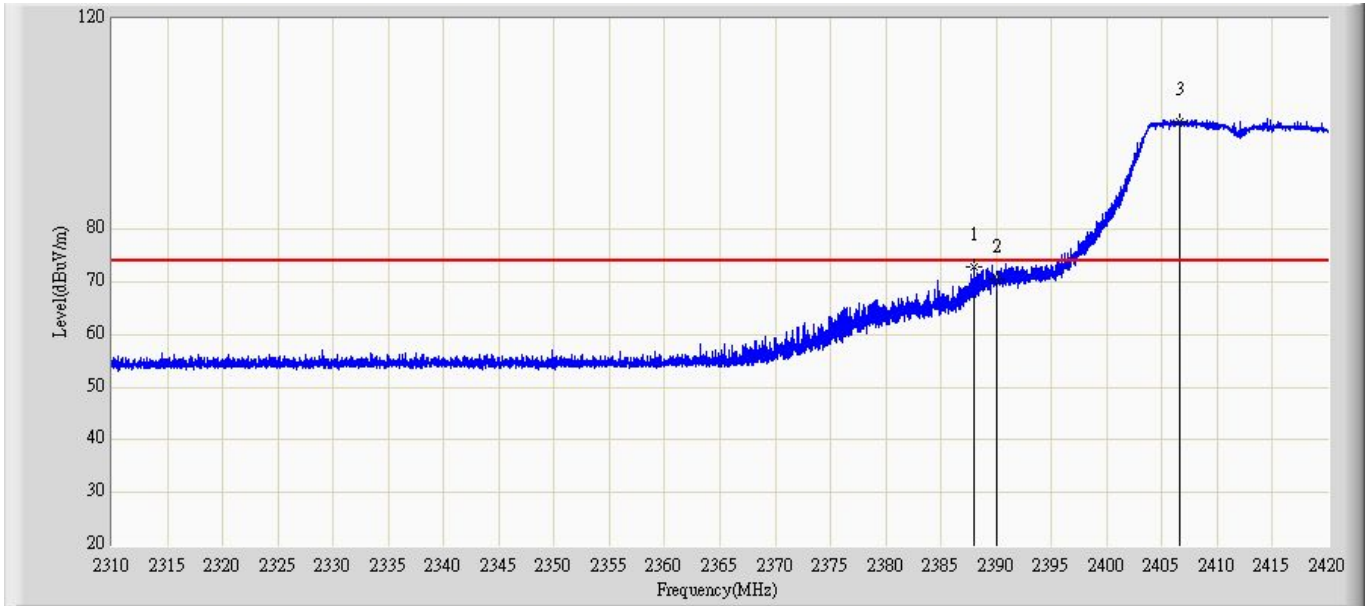
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.430	72.830	42.277	-1.170	74.000	30.552	PK
2			2390.000	70.574	40.030	-3.426	74.000	30.543	PK
3		*	2408.972	99.446	68.882	N/A	N/A	30.564	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



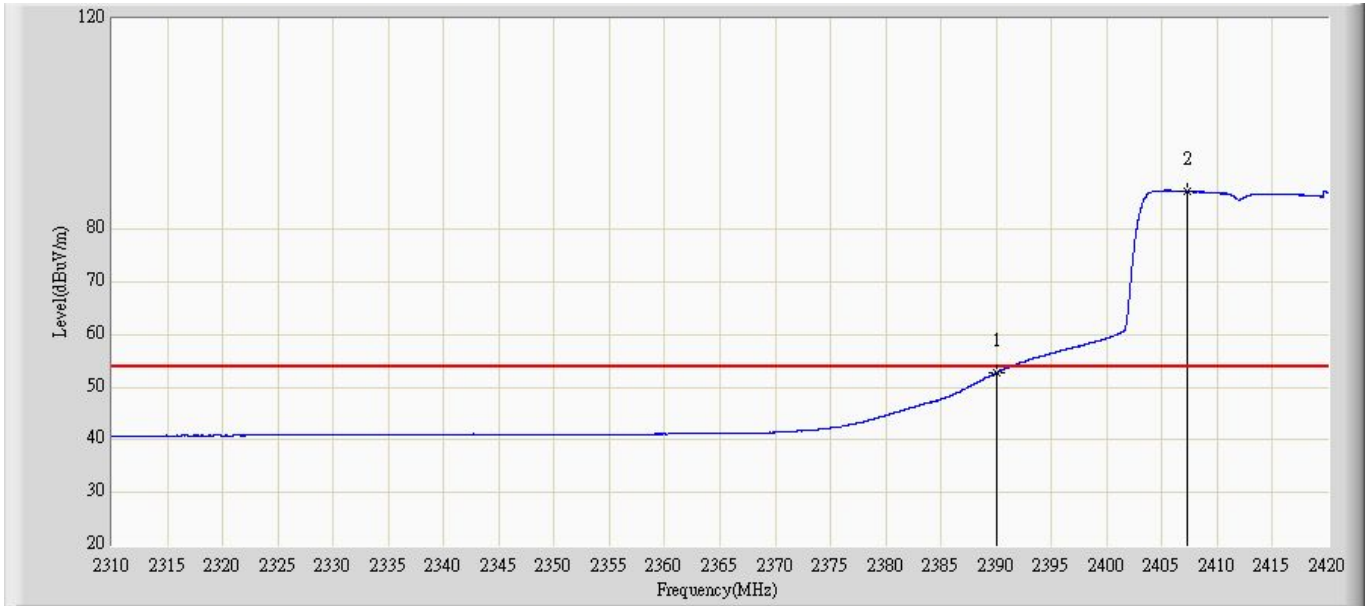
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	53.577	23.033	-0.423	54.000	30.543	AV
2		*	2404.875	88.479	57.927	N/A	N/A	30.552	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



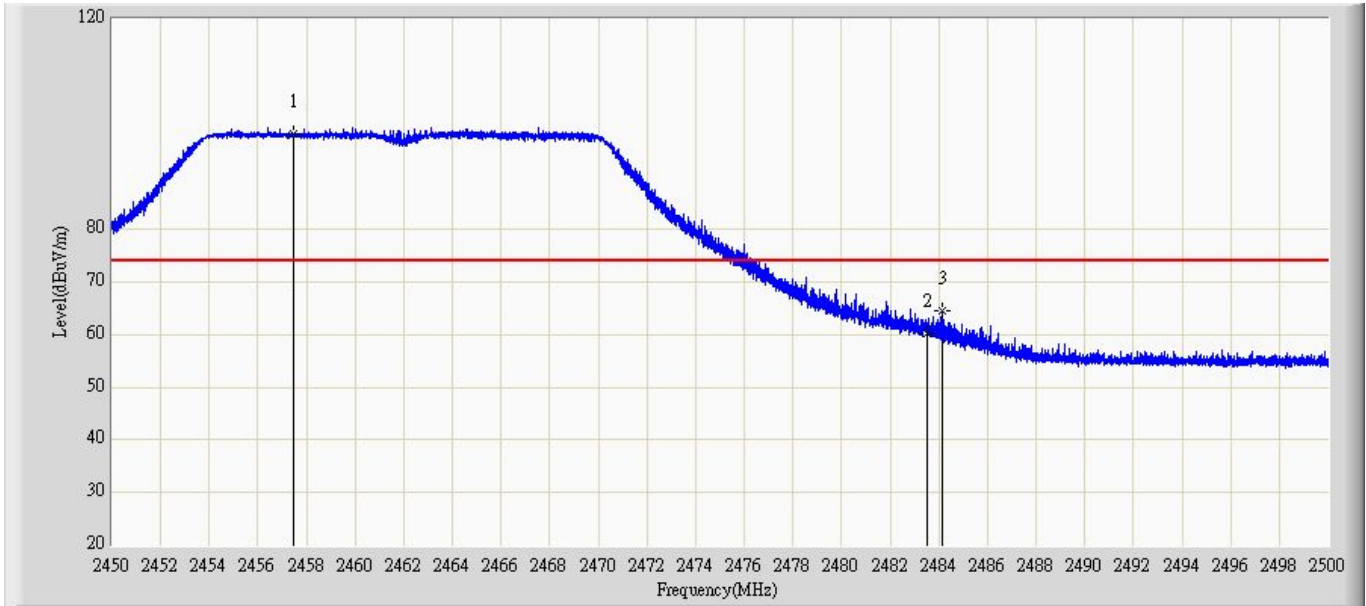
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.031	72.835	42.280	-1.165	74.000	30.555	PK
2			2390.000	70.440	39.896	-3.560	74.000	30.543	PK
3		*	2406.580	100.582	70.025	N/A	N/A	30.557	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 17:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



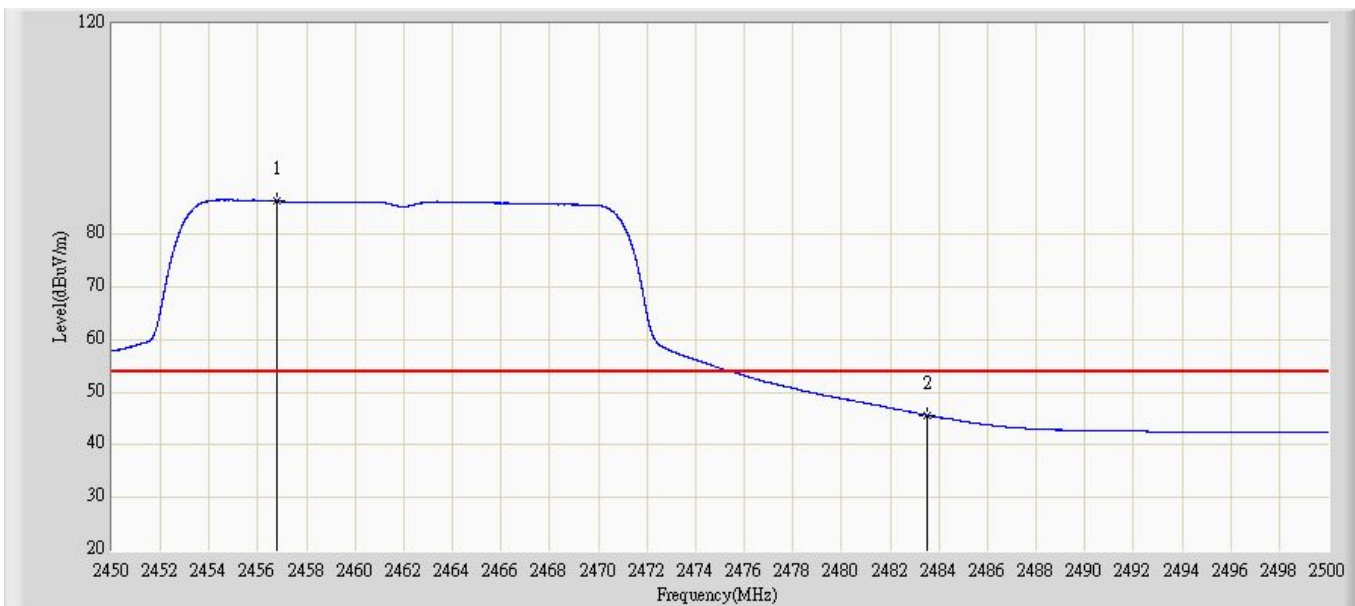
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	52.752	22.208	-1.248	54.000	30.543	AV
2		*	2407.295	87.245	56.686	N/A	N/A	30.559	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



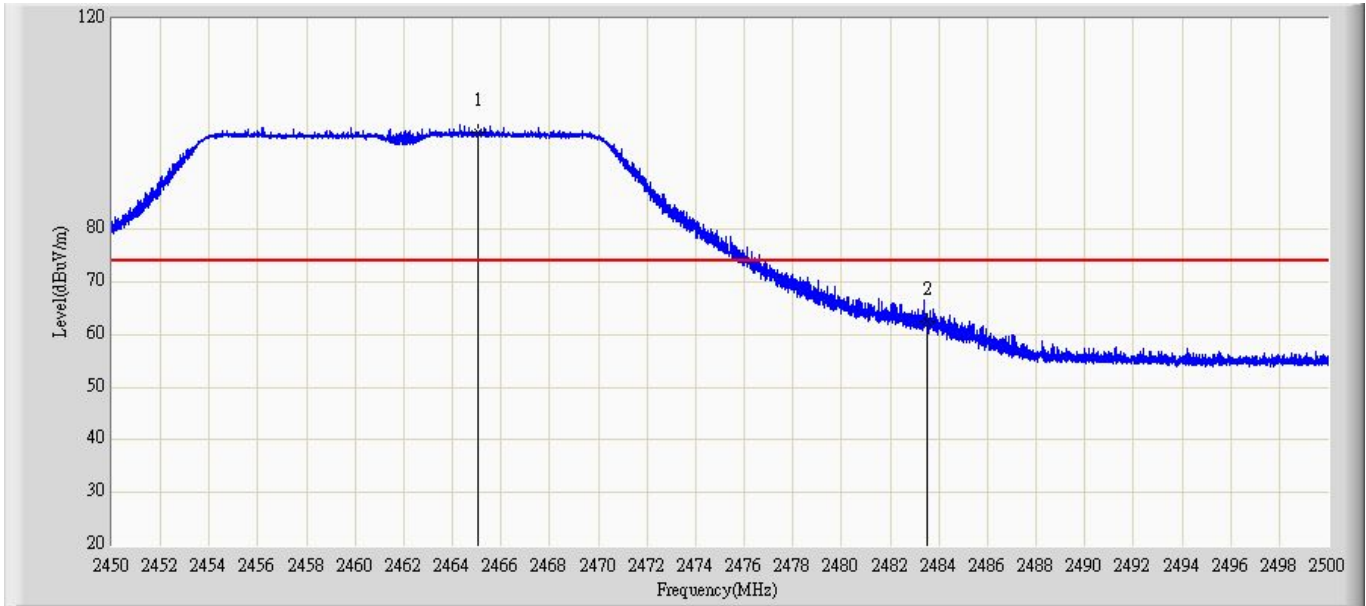
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2457.475	98.142	67.343	N/A	N/A	30.799	PK
2			2483.500	60.087	29.448	-13.913	74.000	30.638	PK
3			2484.125	64.540	33.904	-9.460	74.000	30.636	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



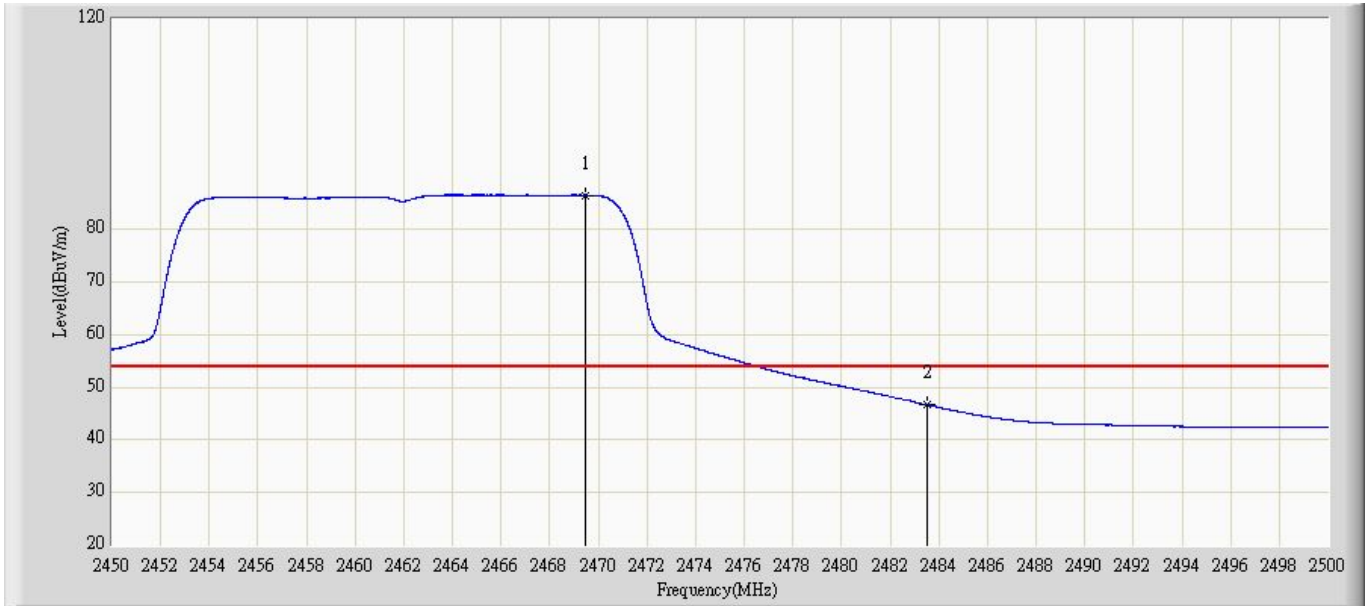
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2456.806	86.331	55.530	N/A	N/A	30.802	AV
2			2483.500	45.669	15.030	-8.331	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



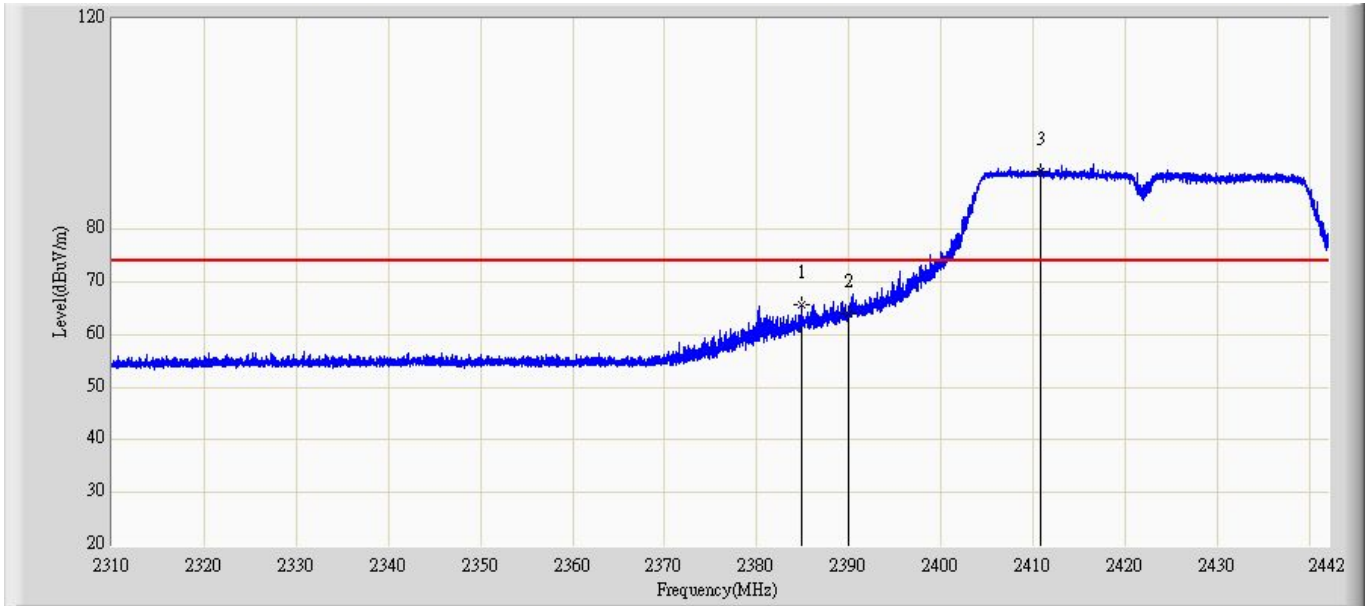
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2465.056	98.457	67.699	N/A	N/A	30.758	PK
2			2483.500	62.479	31.840	-11.521	74.000	30.638	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



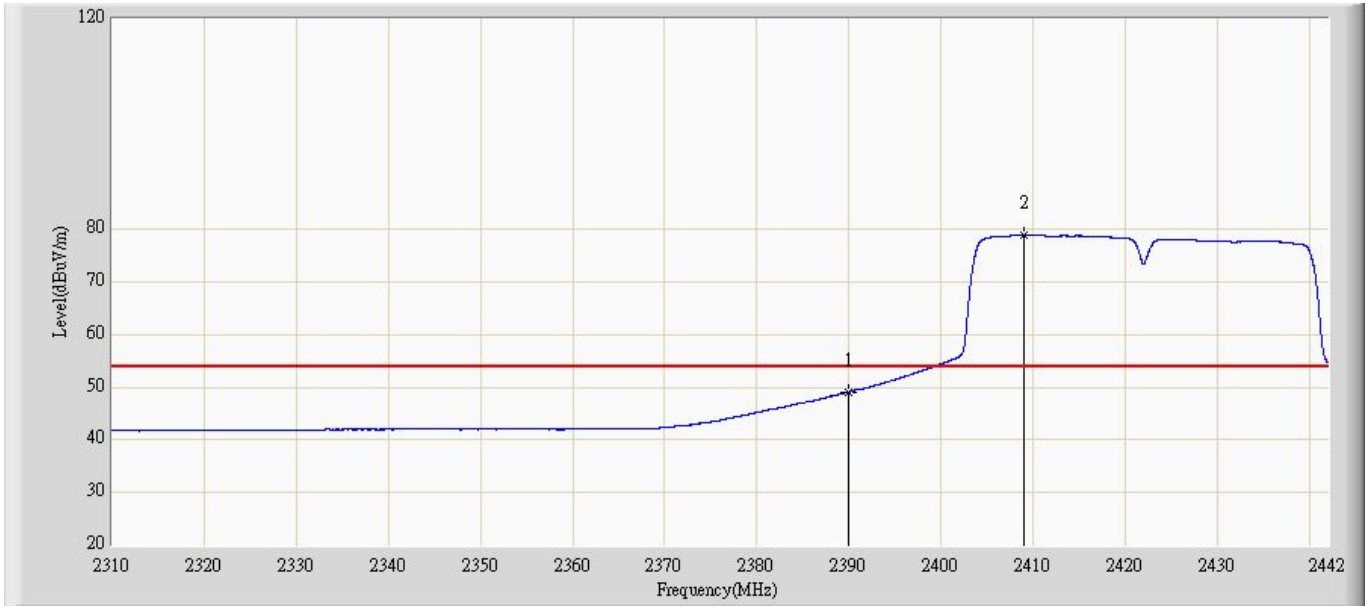
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2469.481	86.455	55.728	N/A	N/A	30.727	AV
2			2483.500	46.702	16.063	-7.298	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



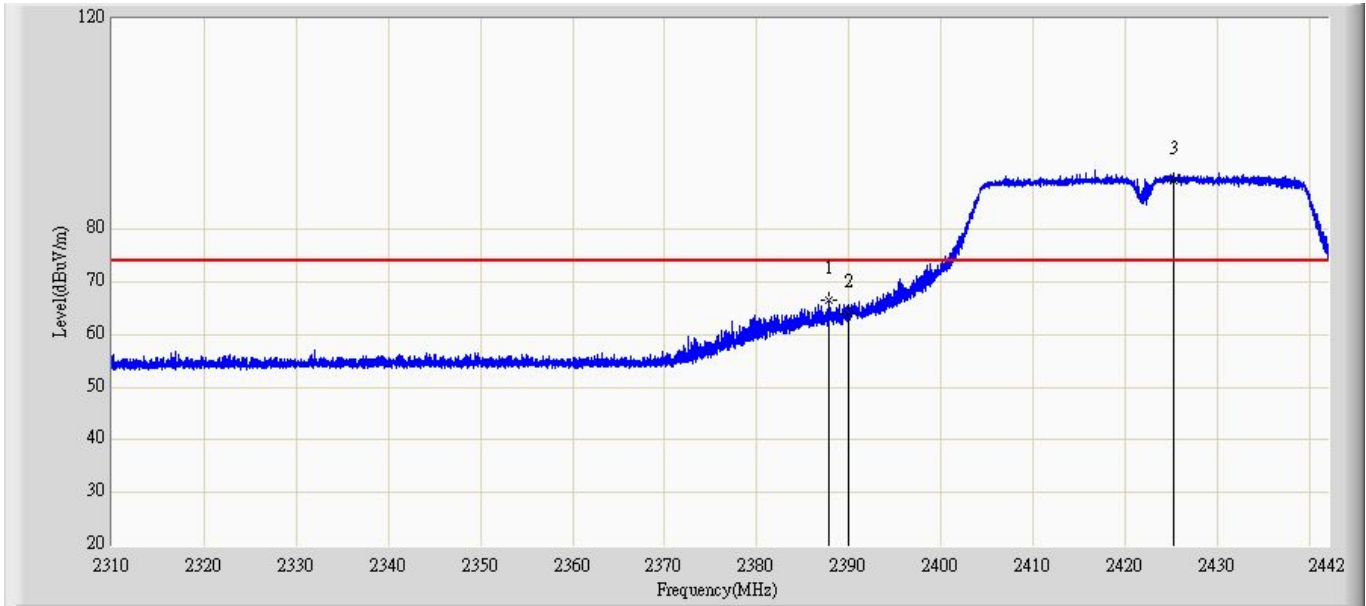
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2384.811	65.832	35.258	-8.168	74.000	30.574	PK
2			2390.000	63.846	33.302	-10.154	74.000	30.543	PK
3		*	2410.848	90.886	60.316	N/A	N/A	30.569	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



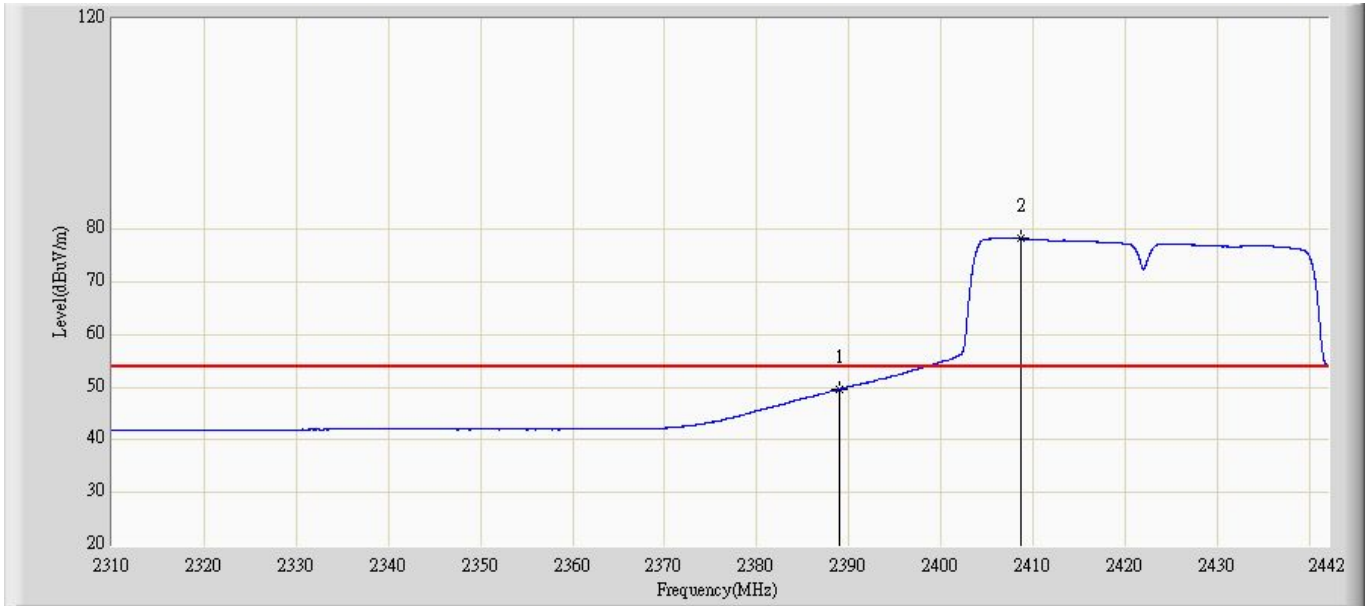
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	49.137	18.593	-4.863	54.000	30.543	AV
2		*	2409.066	78.834	48.270	N/A	N/A	30.564	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



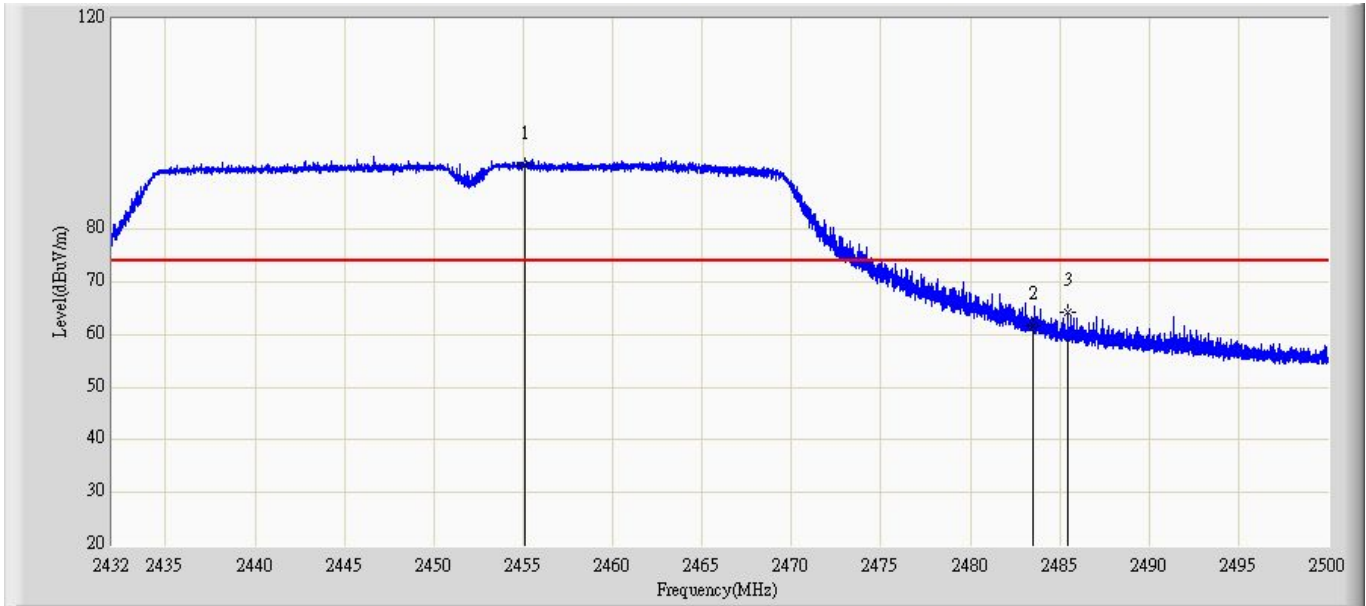
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2387.880	66.465	35.909	-7.535	74.000	30.556	PK
2			2390.000	63.898	33.354	-10.102	74.000	30.543	PK
3		*	2425.285	89.167	58.471	N/A	N/A	30.696	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



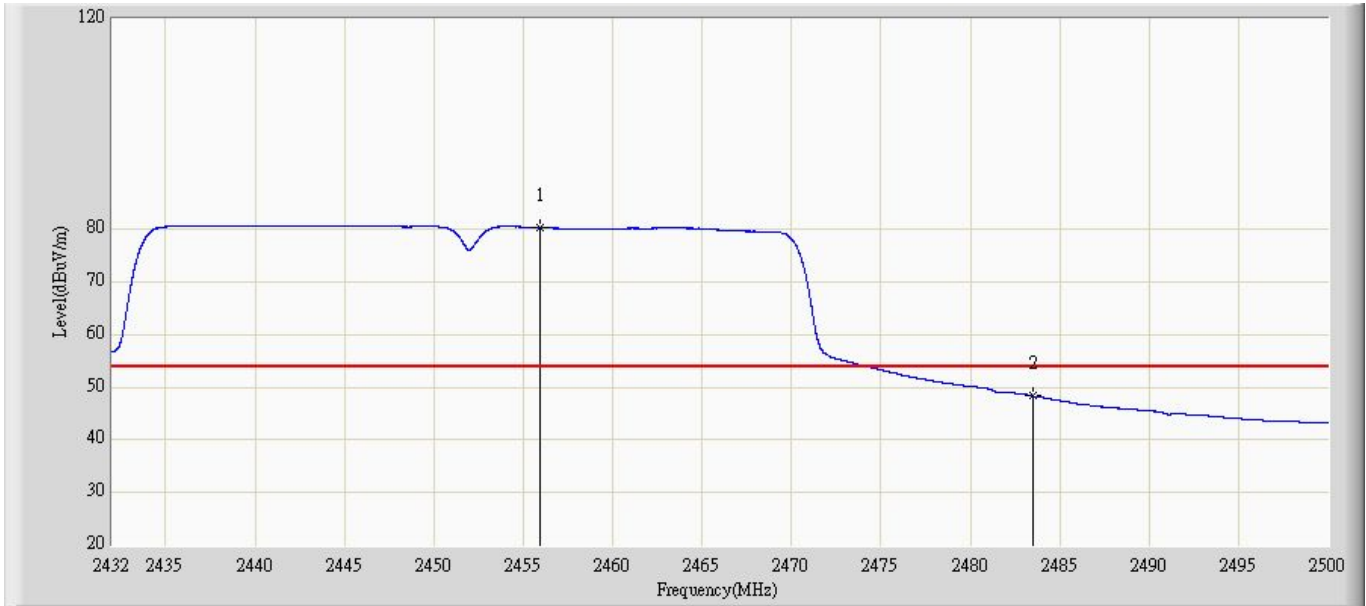
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.000	49.650	19.101	-4.350	54.000	30.549	AV
2		*	2408.604	78.222	47.659	N/A	N/A	30.563	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



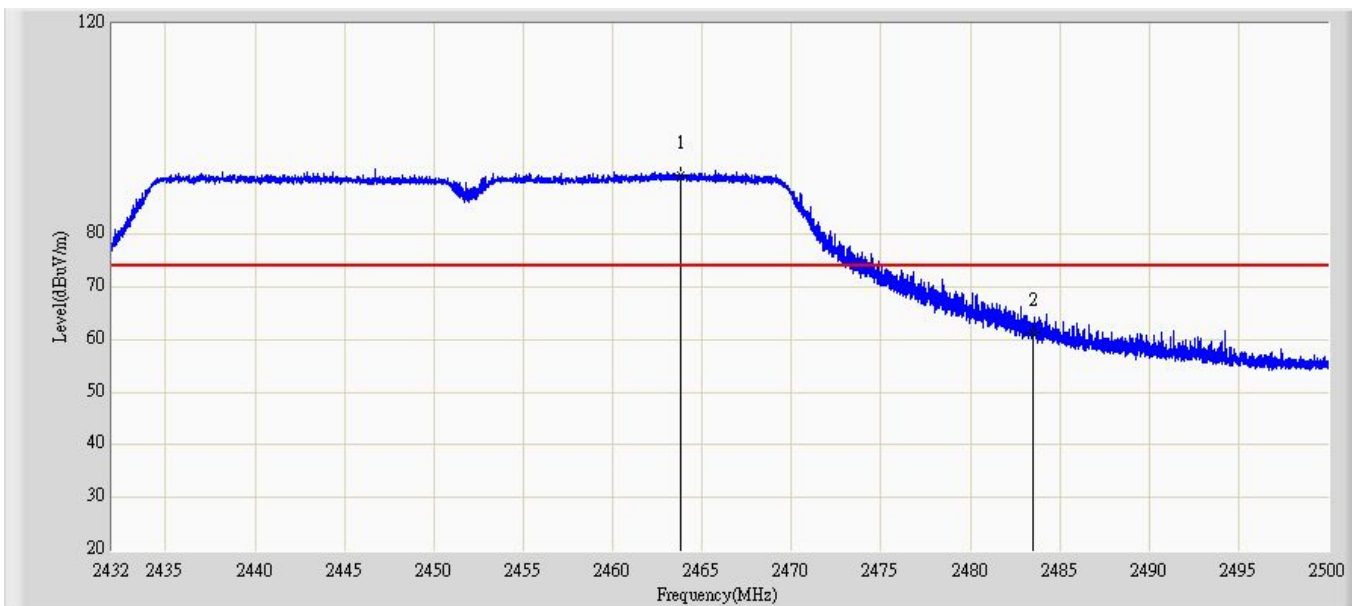
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.112	92.233	61.425	N/A	N/A	30.809	PK
2			2483.500	61.654	31.015	-12.346	74.000	30.638	PK
3			2485.473	64.170	33.540	-9.830	74.000	30.629	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



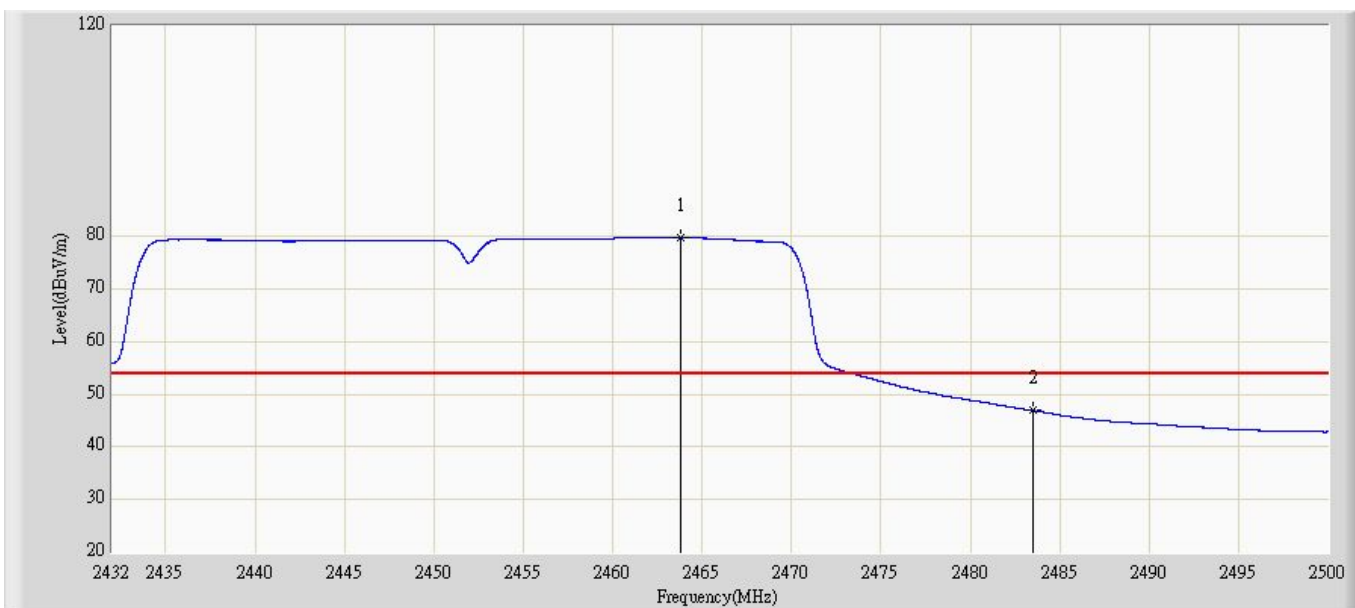
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2455.961	80.265	49.460	N/A	N/A	30.805	AV
2			2483.500	48.344	17.705	-5.656	54.000	30.638	AV

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.815	91.394	60.627	N/A	N/A	30.767	PK
2			2483.500	61.357	30.718	-12.643	74.000	30.638	PK

Engineer: Jame	
Site: AC5	Time: 2010/05/04 - 16:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.781	79.831	49.064	N/A	N/A	30.768	AV
2			2483.500	46.941	16.302	-7.059	54.000	30.638	AV

7. Operation Frequency Range of 20dB Bandwidth

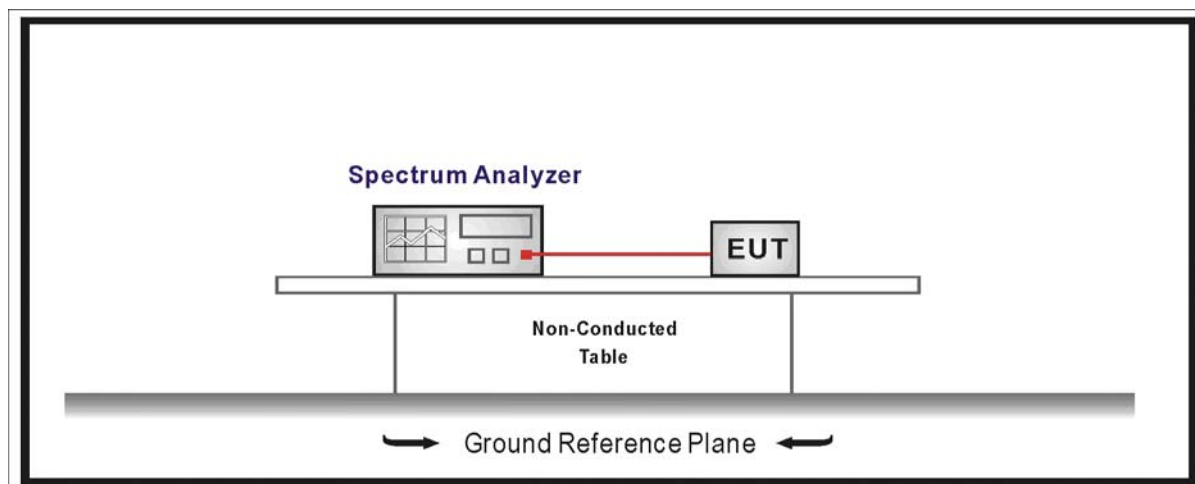
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2010.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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

20 dB bandwidth of the emission is contained within the operation frequency band.

7.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

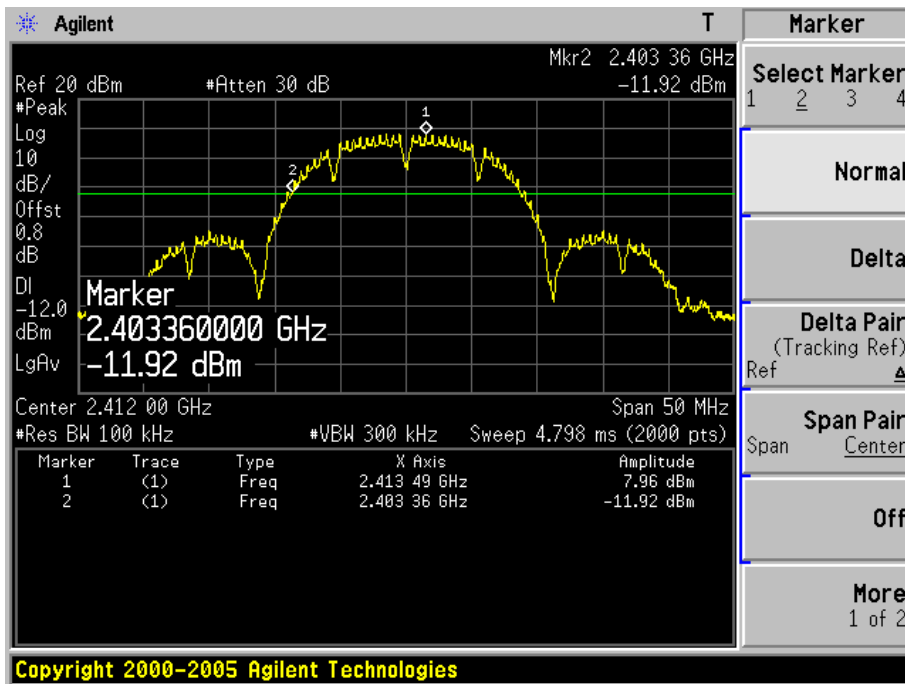
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

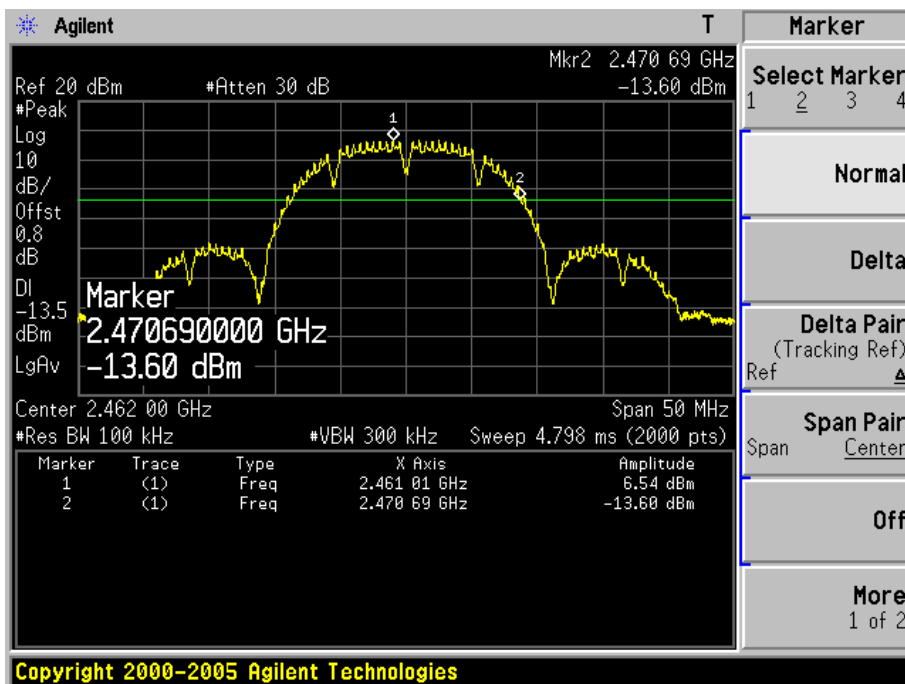
7.6. Test Result

Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

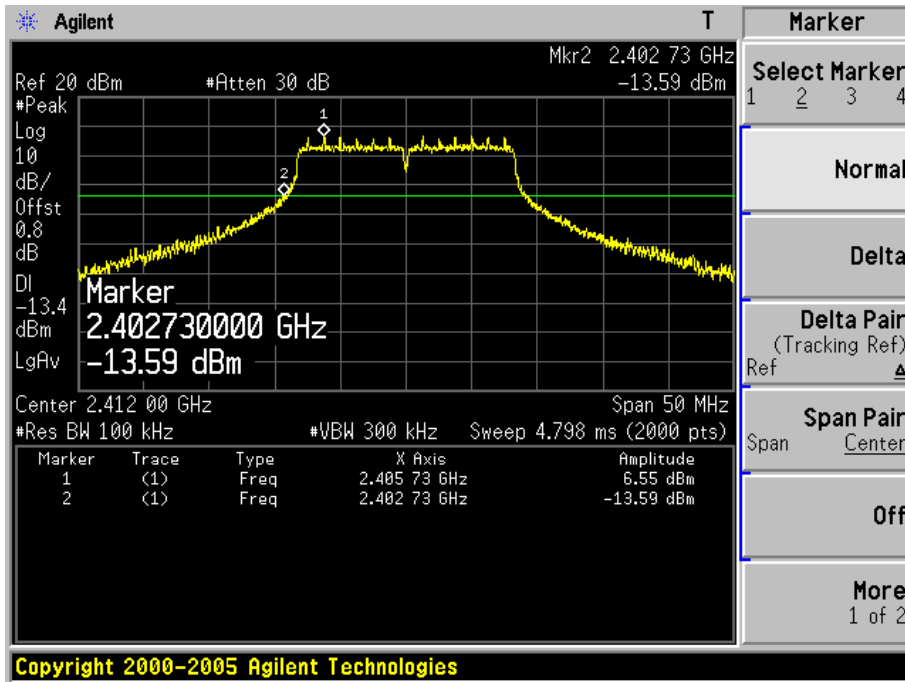


Channel 11 (2462MHz)

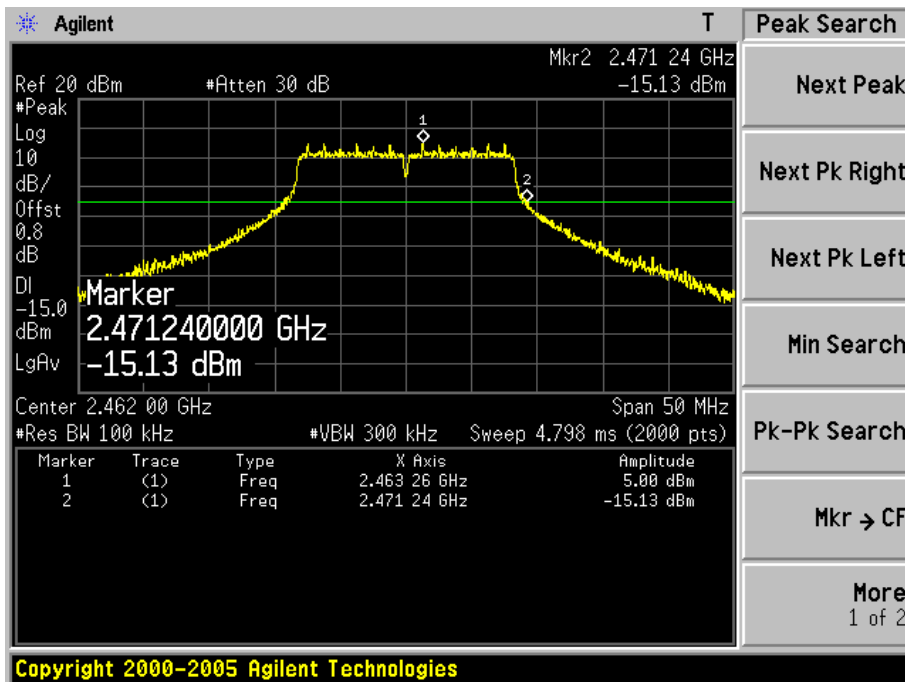


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

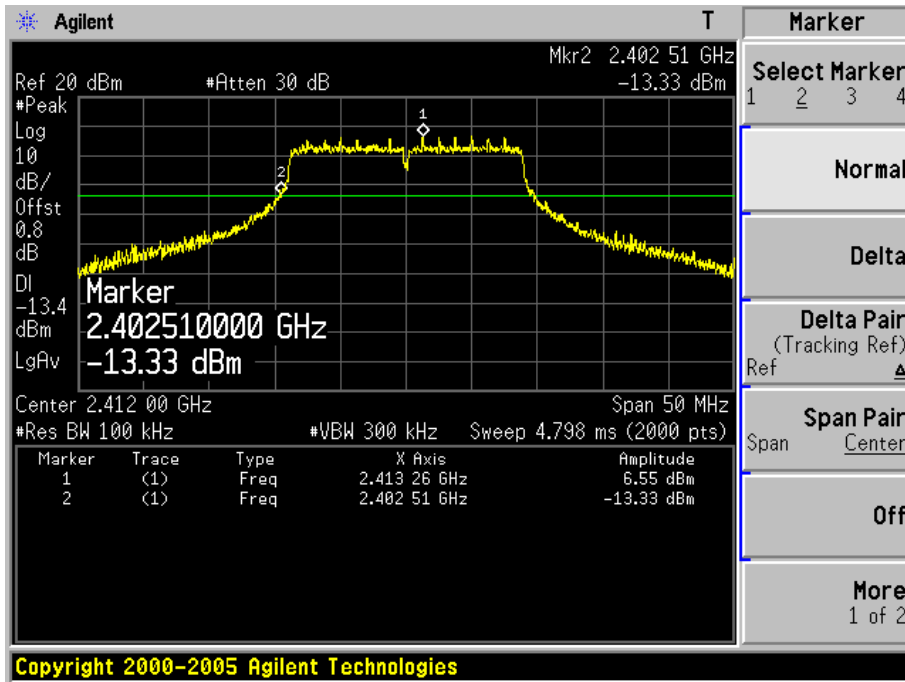


Channel 11 (2462MHz)

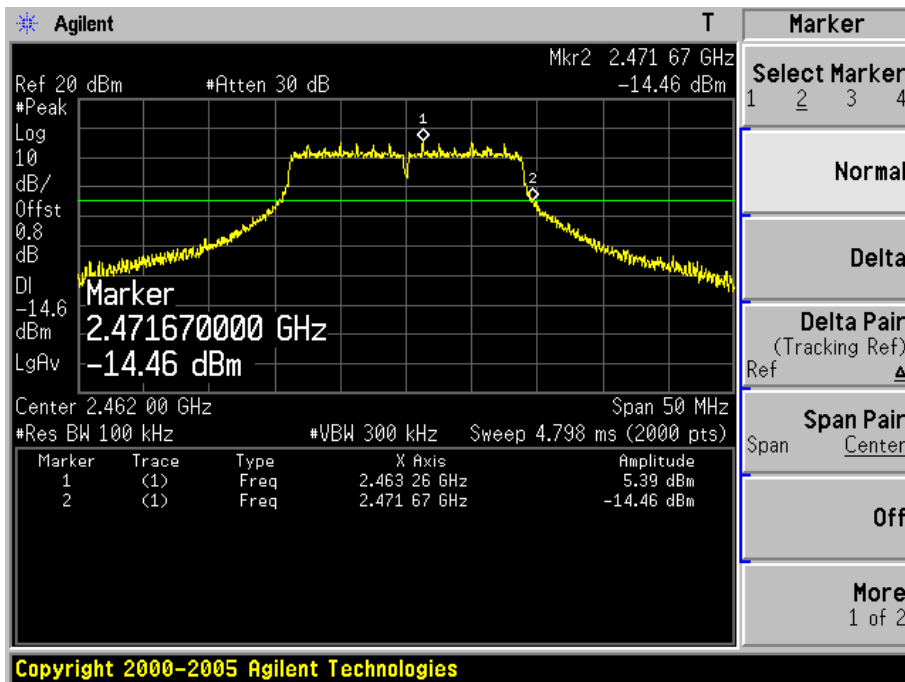


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

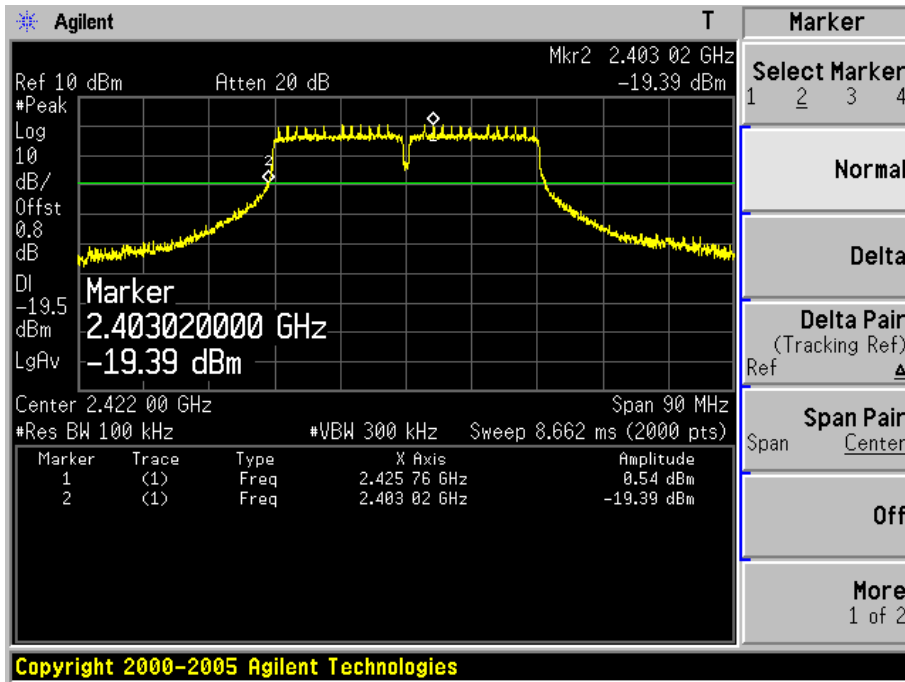


Channel 11 (2462MHz)

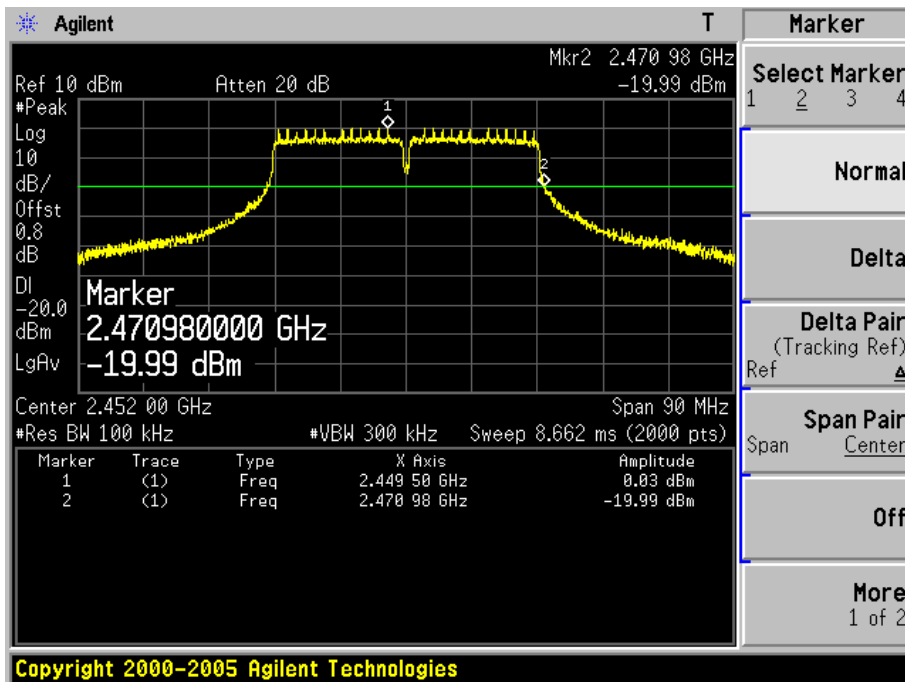


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

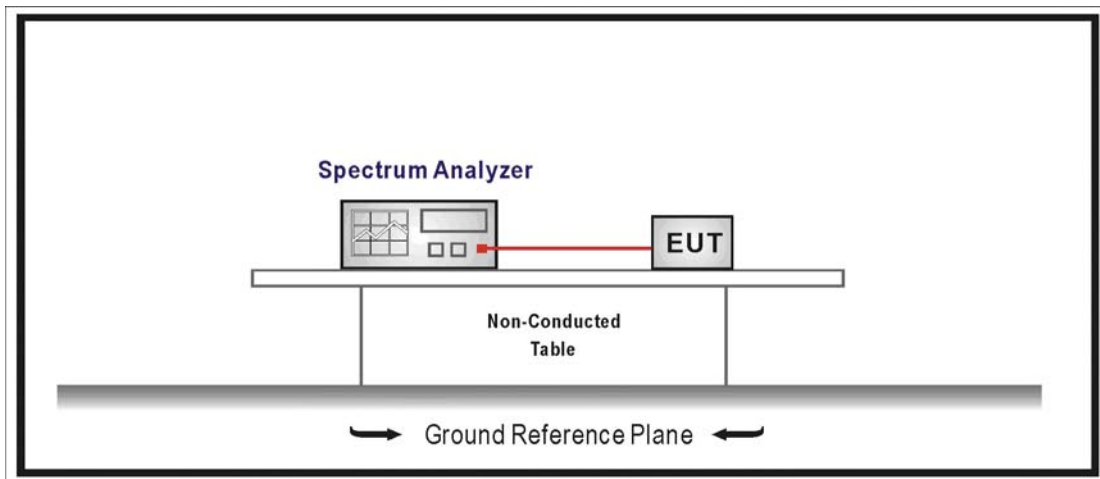
8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2010.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

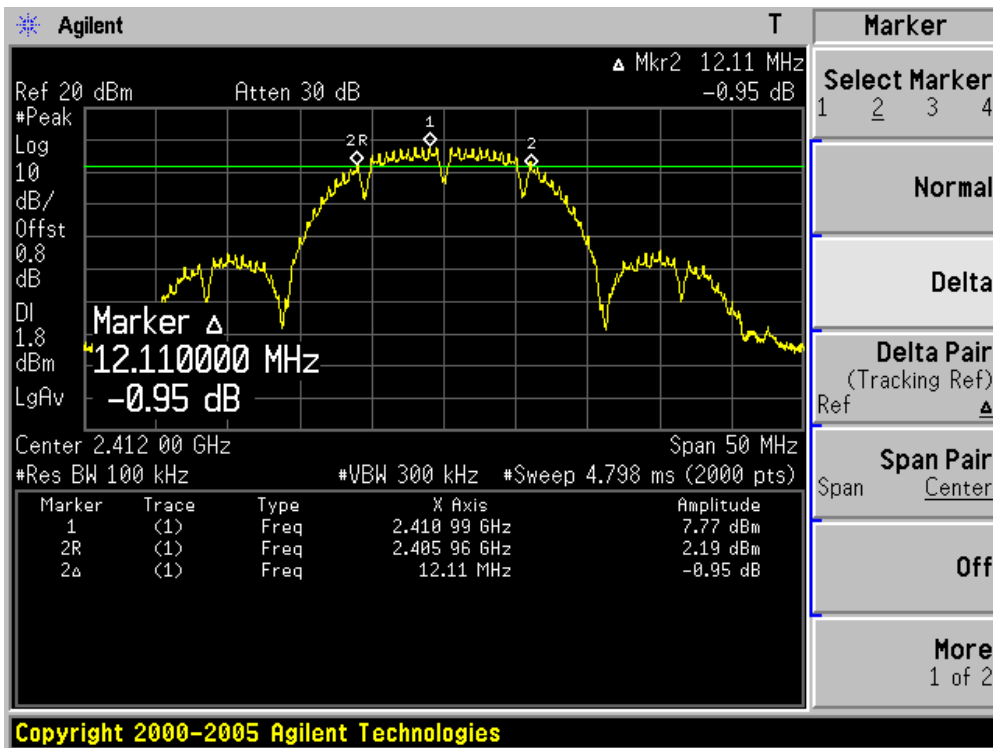
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

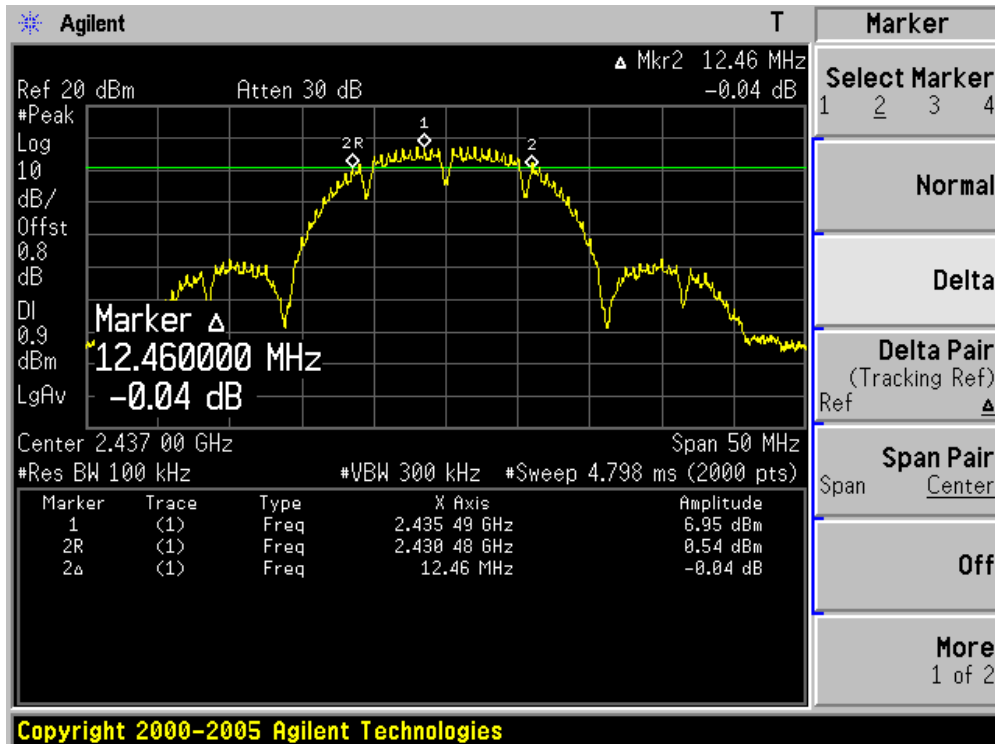
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12110	500	Pass
06	2437	12460	500	Pass
11	2462	12530	500	Pass

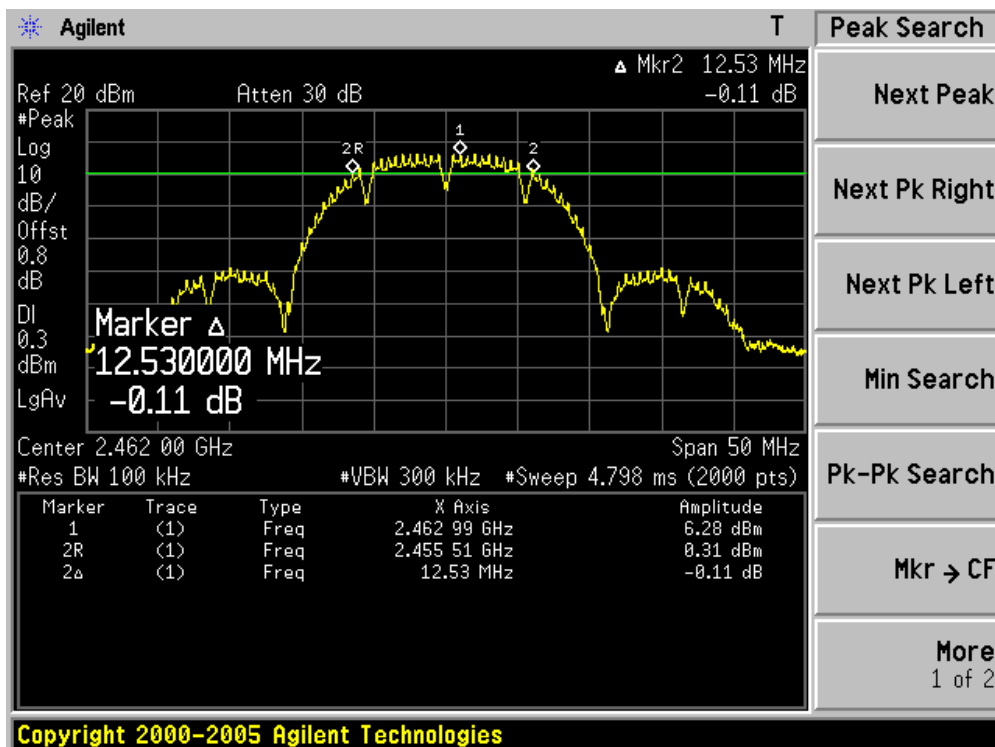
Channel 01 (2412MHz)



Channel 06 (2437MHz)



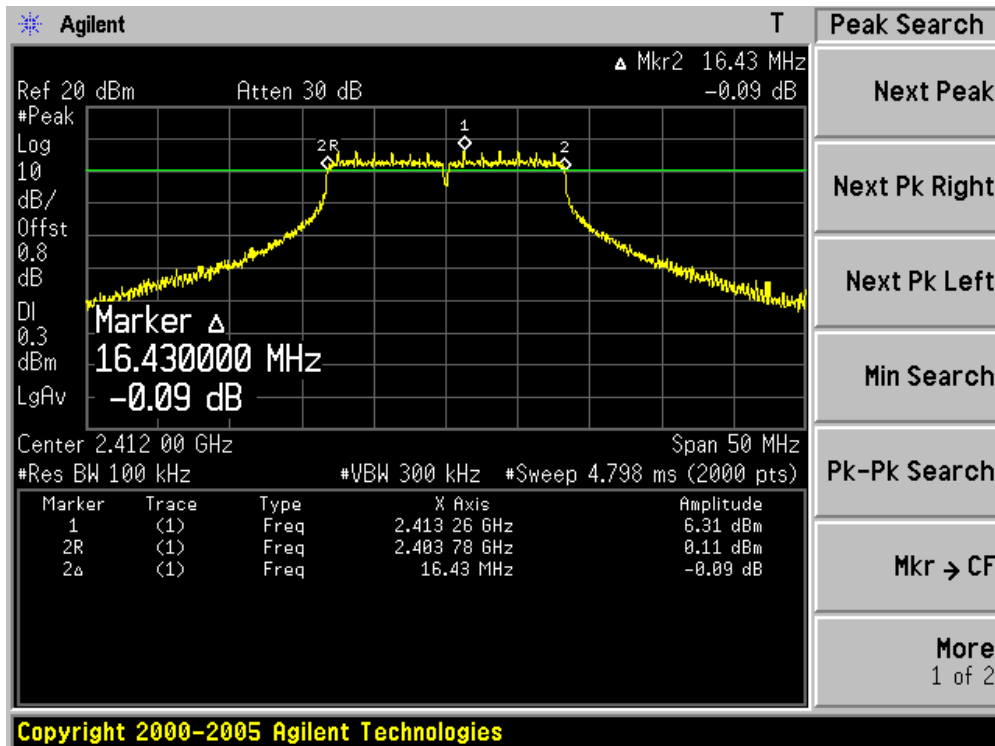
Channel 11 (2462MHz)



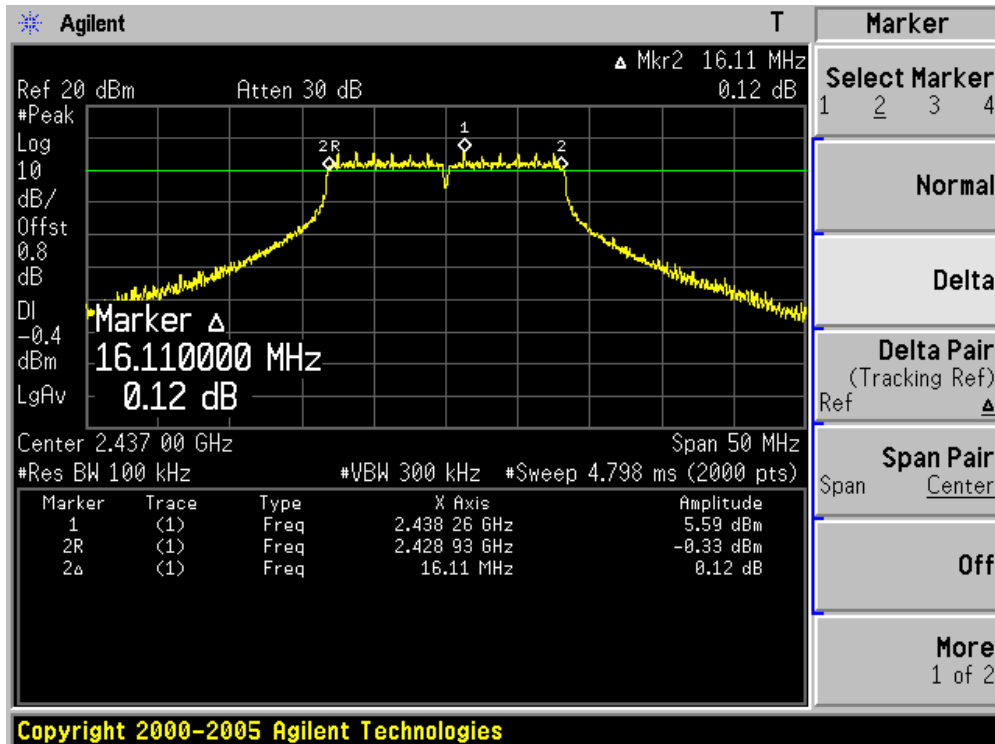
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16430	500	Pass
06	2437	16110	500	Pass
11	2462	16410	500	Pass

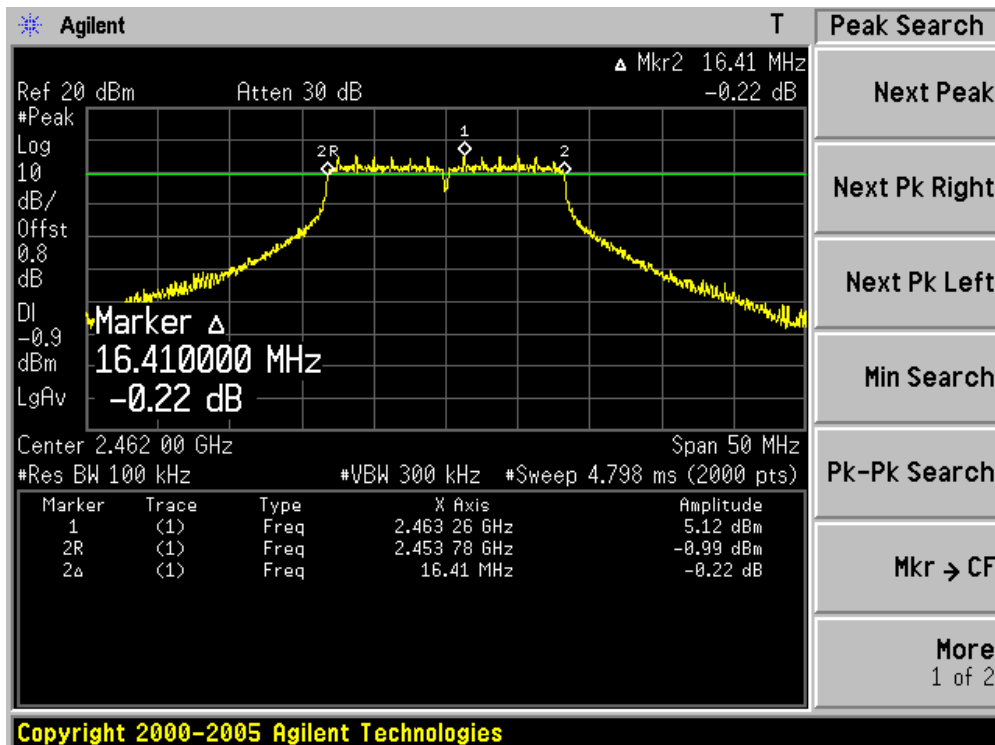
Channel 01 (2412MHz)



Channel 06 (2437MHz)



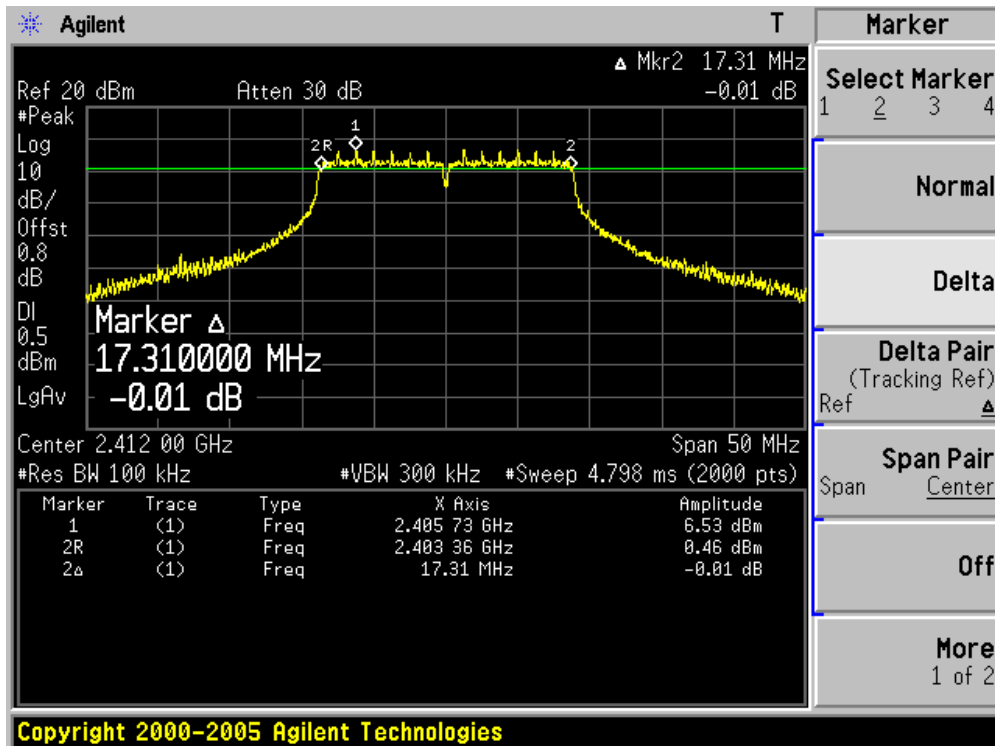
Channel 11 (2462MHz)



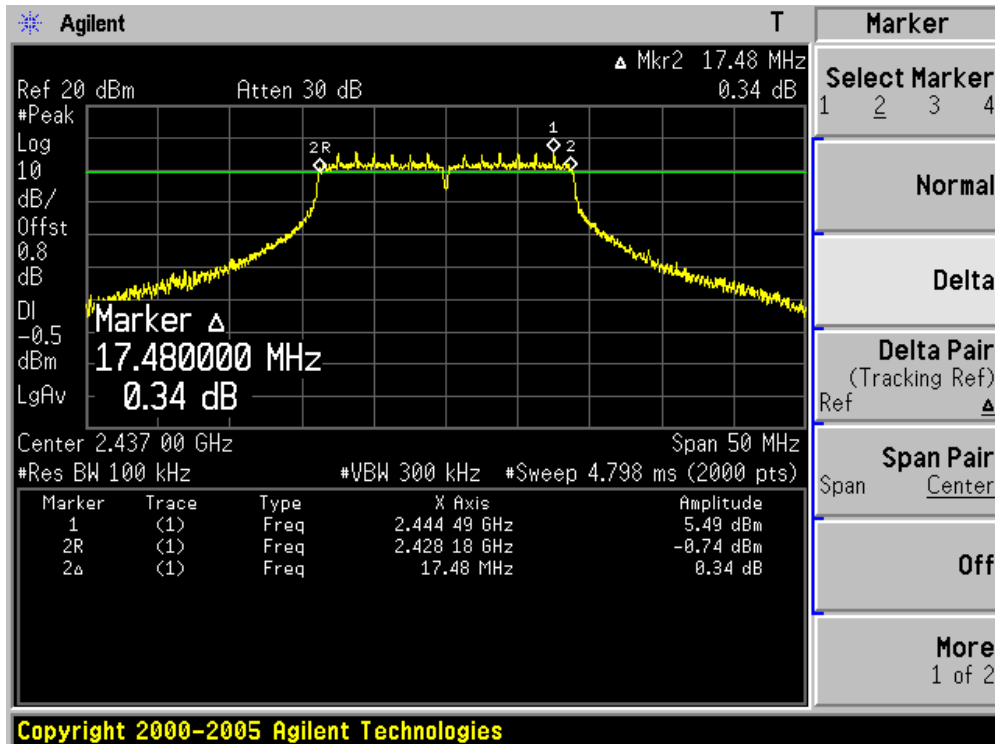
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17310	500	Pass
06	2437	17480	500	Pass
11	2462	17480	500	Pass

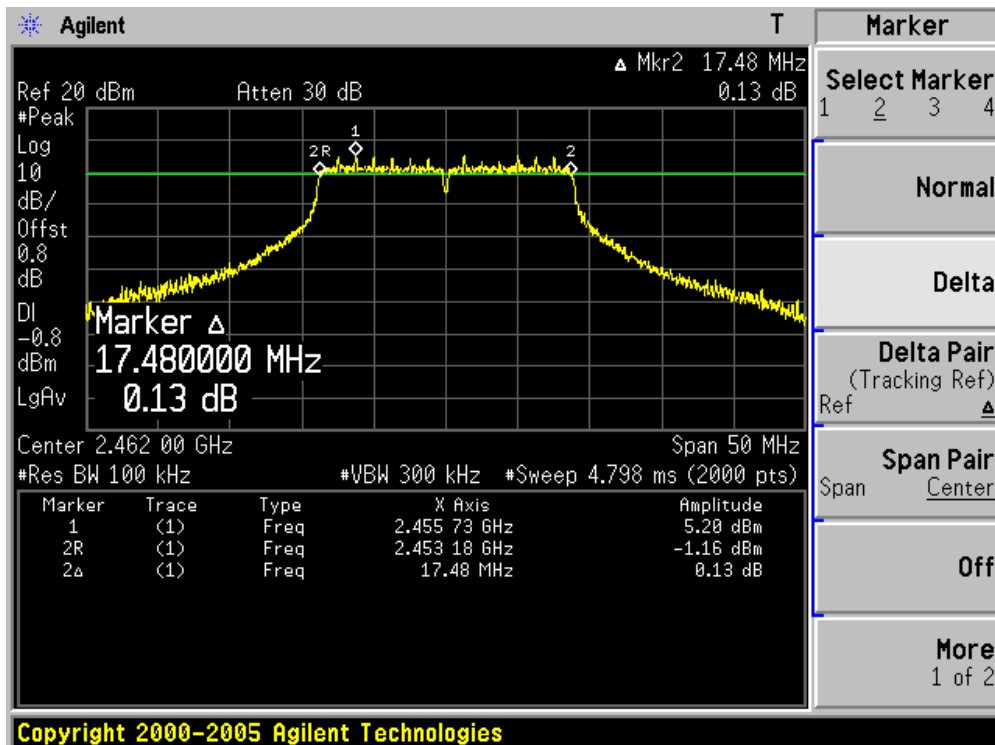
Channel 01 (2412MHz)



Channel 06 (2437MHz)



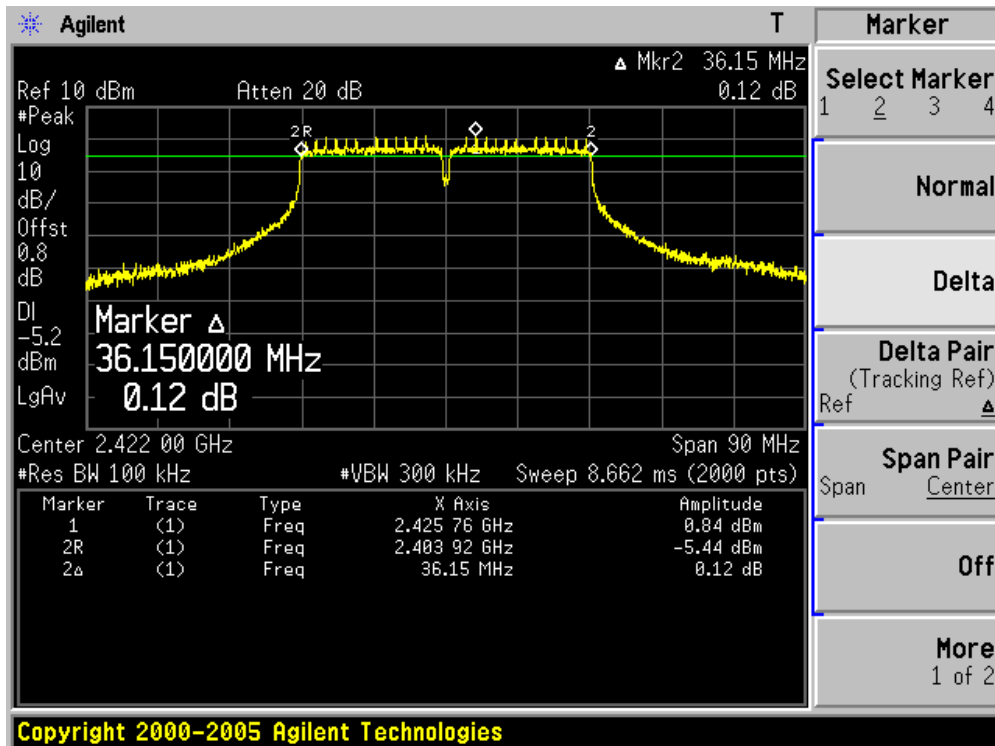
Channel 11 (2462MHz)



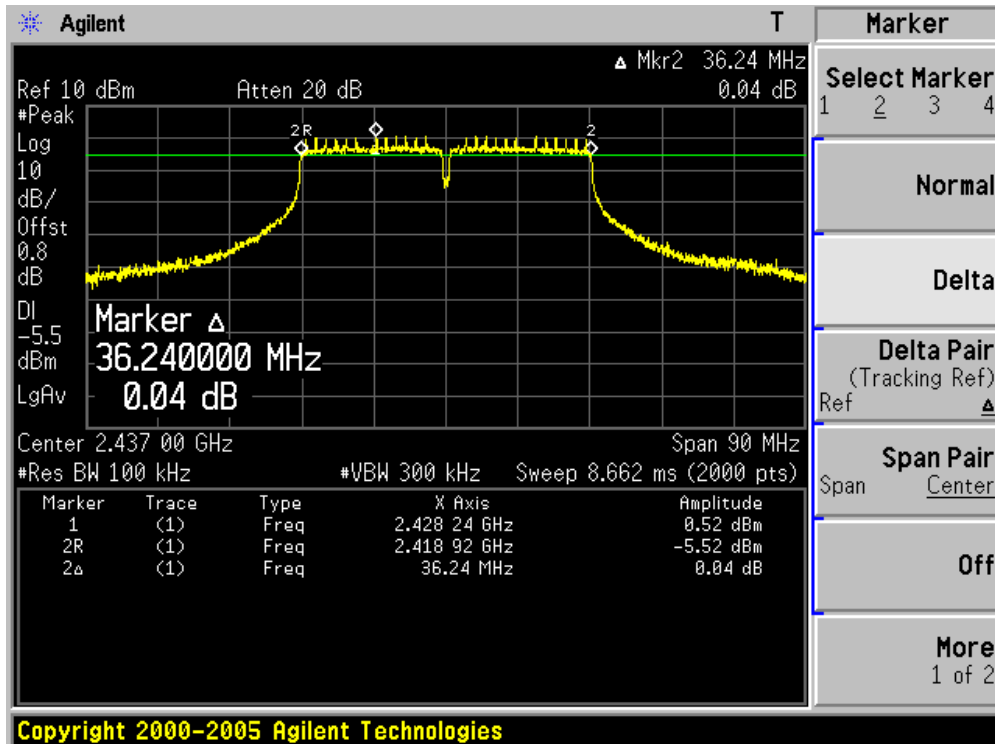
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36150	500	Pass
06	2437	36240	500	Pass
09	2452	36150	500	Pass

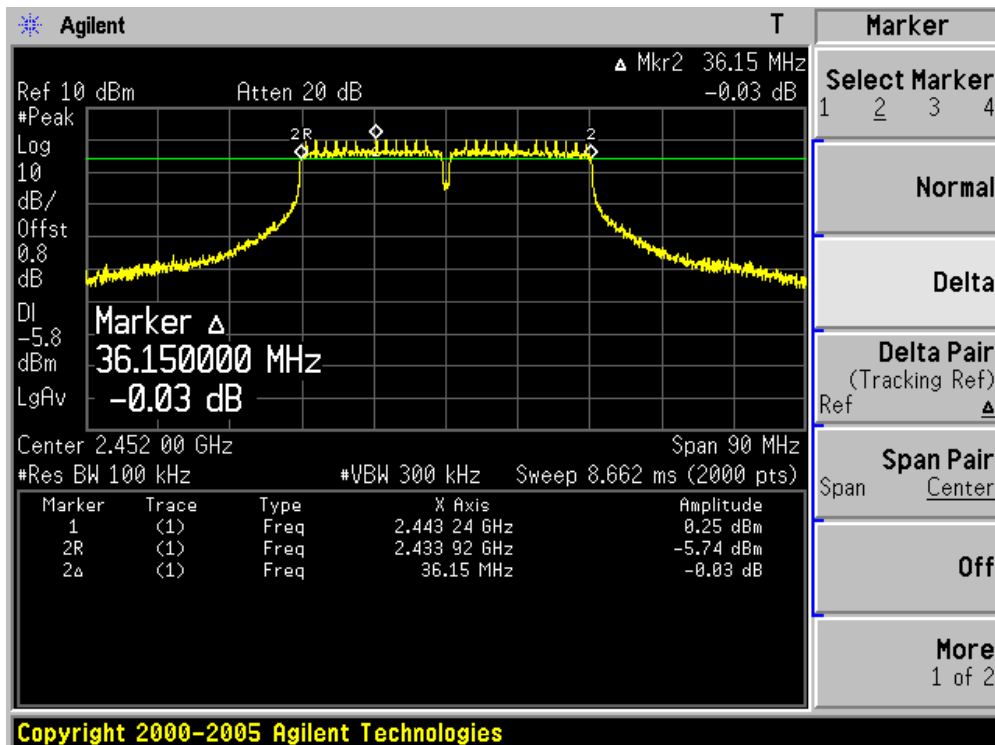
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



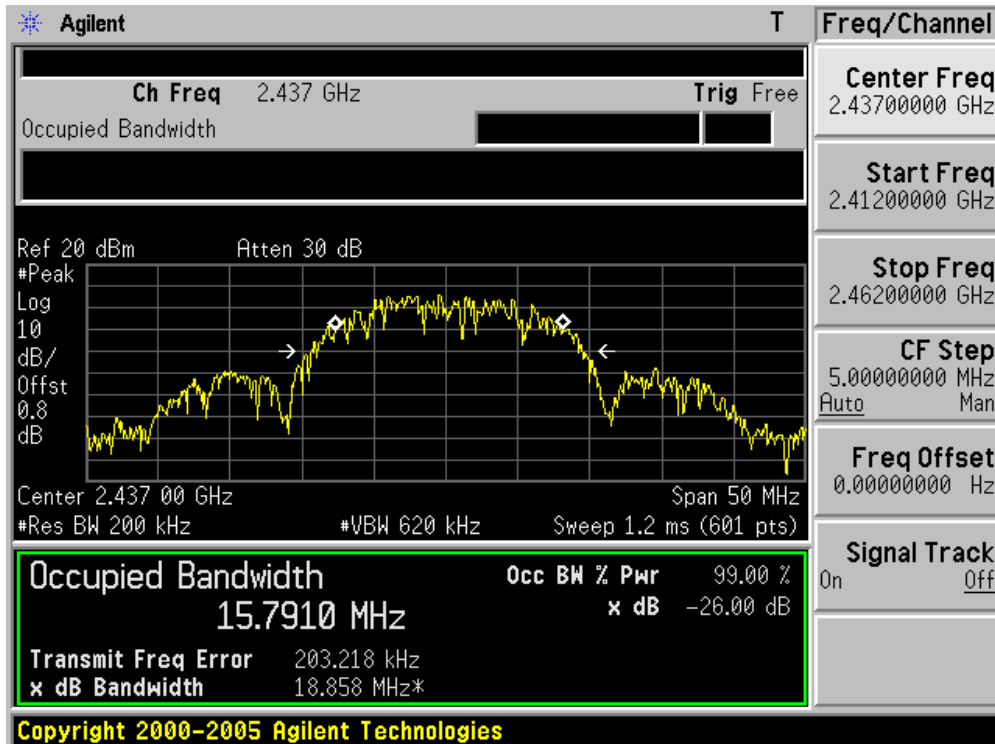
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Result
01	2412	15786.6	Pass
06	2437	15791.0	Pass
11	2462	15530.9	Pass

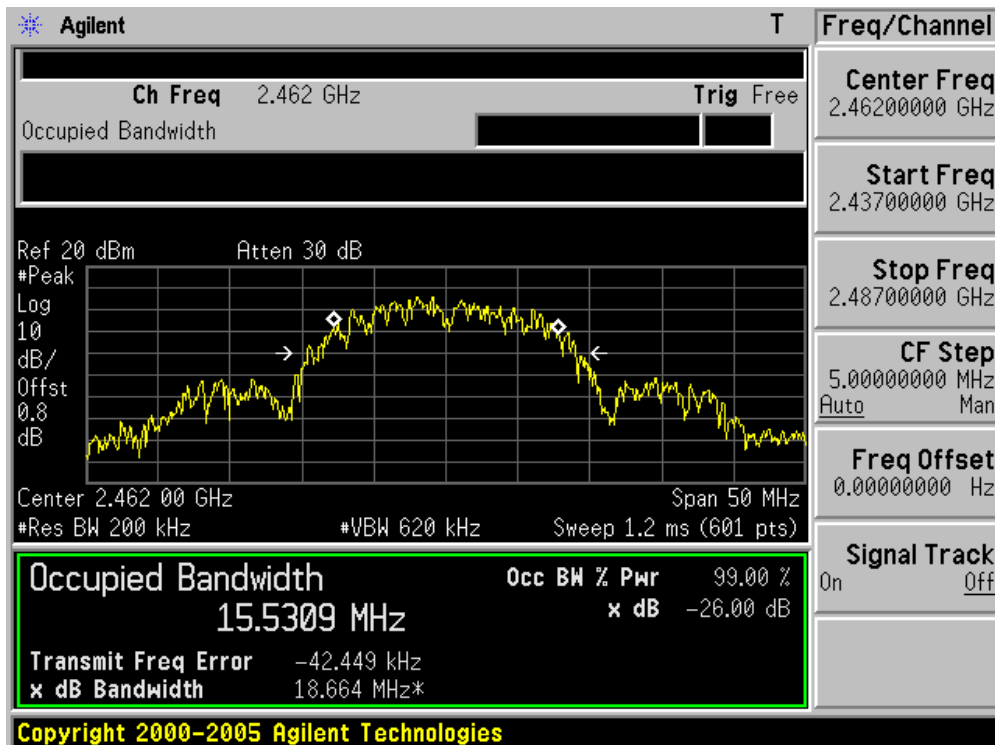
Channel 01 (2412MHz)



Channel 06 (2437MHz)



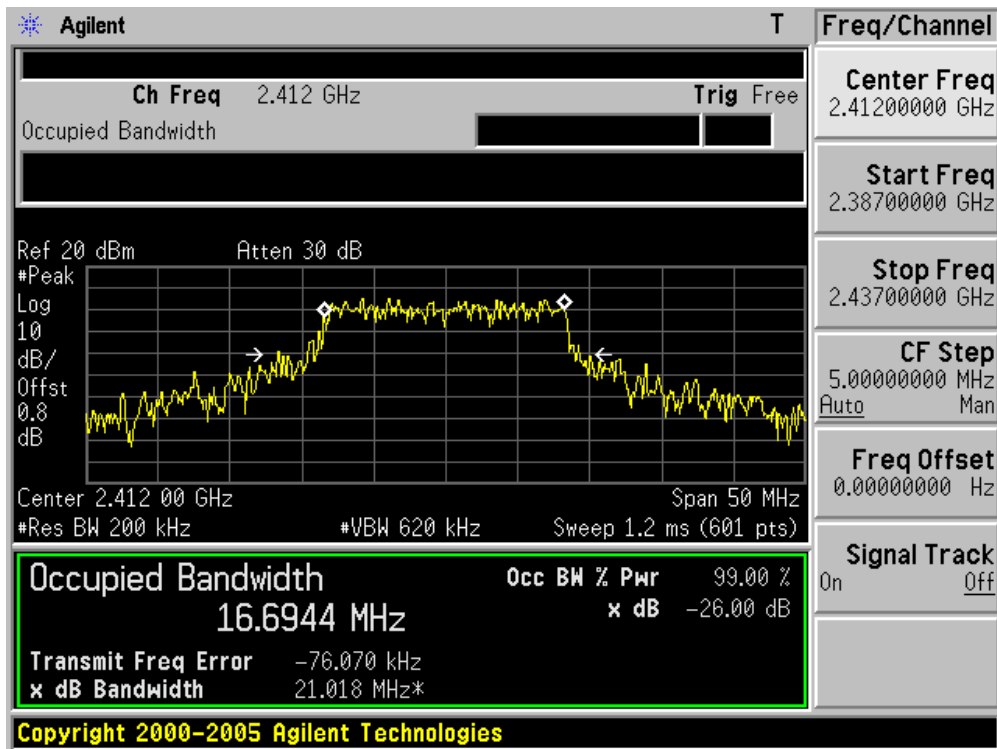
Channel 11 (2462MHz)



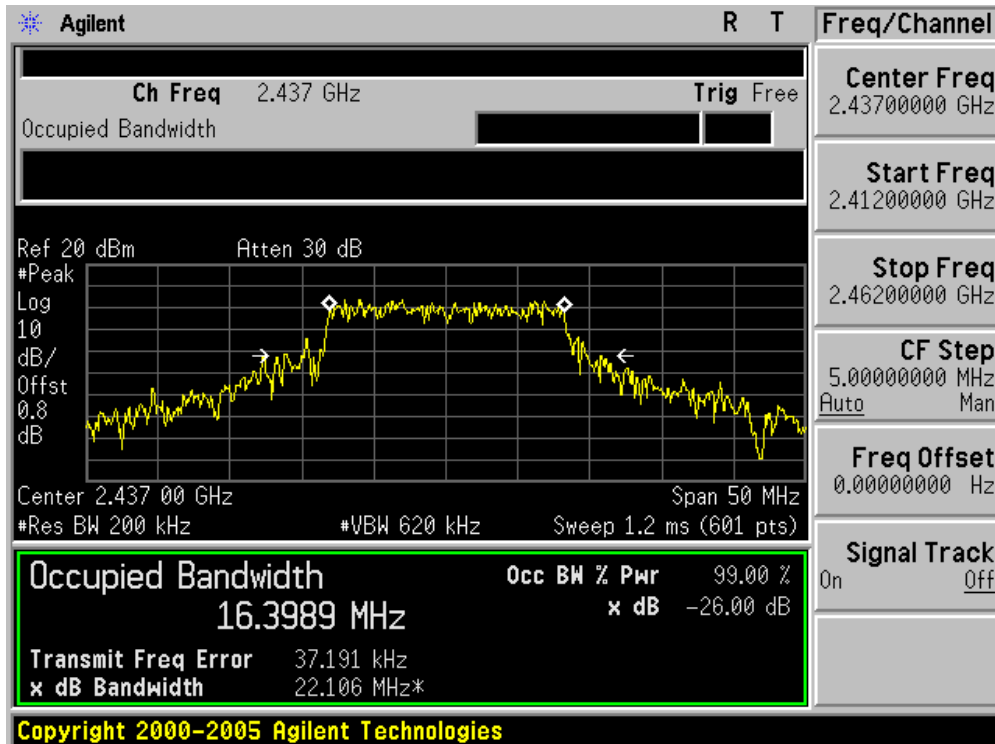
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Result
01	2412	16694.4	Pass
06	2437	16398.9	Pass
11	2462	16484.7	Pass

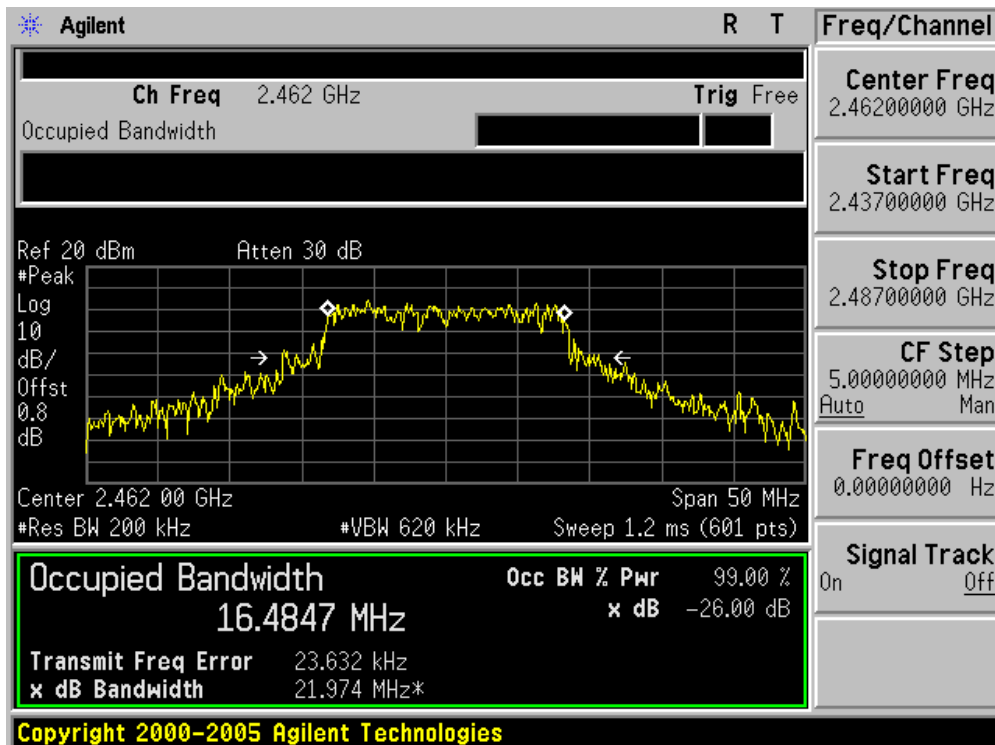
Channel 01 (2412MHz)



Channel 06 (2437MHz)



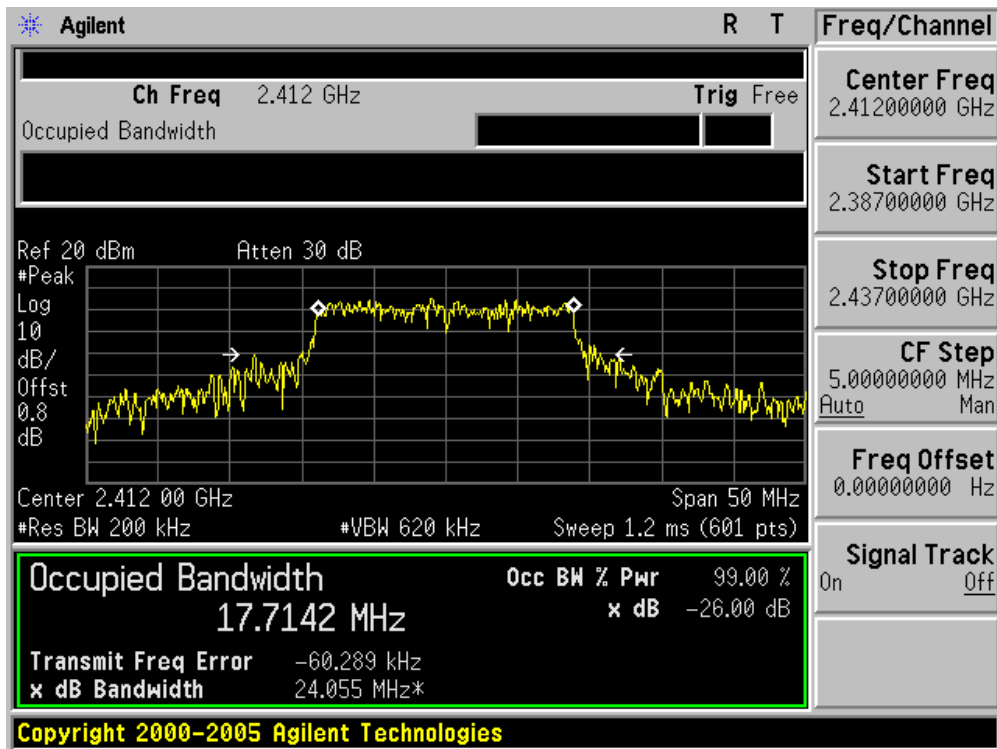
Channel 11 (2462MHz)



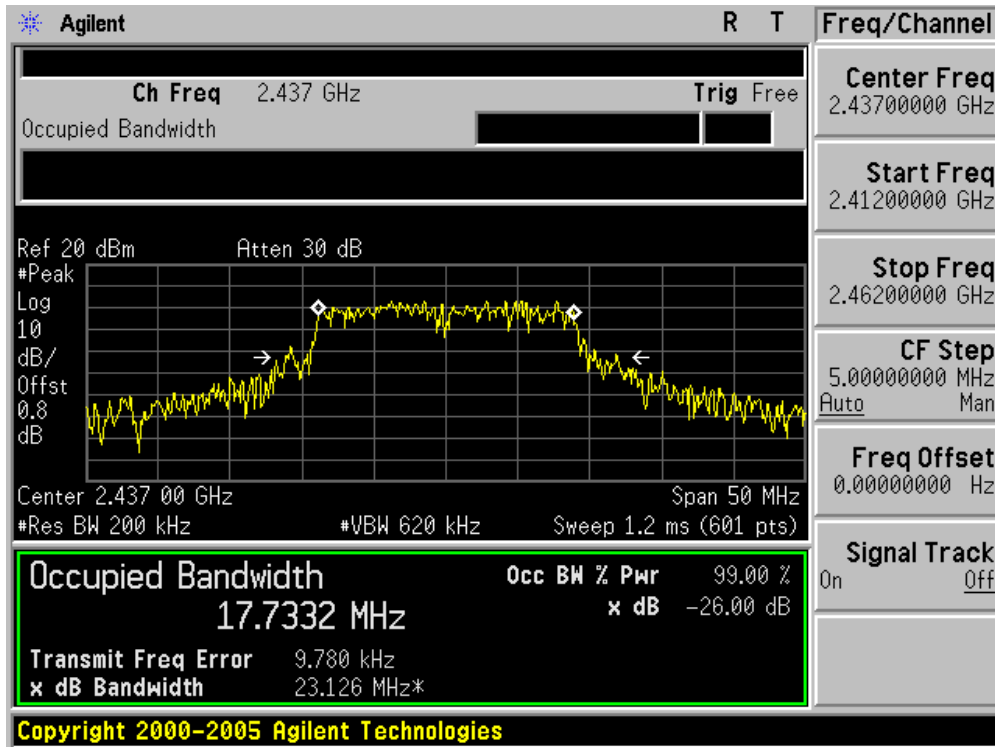
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Result
01	2412	17714.2	Pass
06	2437	17733.2	Pass
11	2462	17964.1	Pass

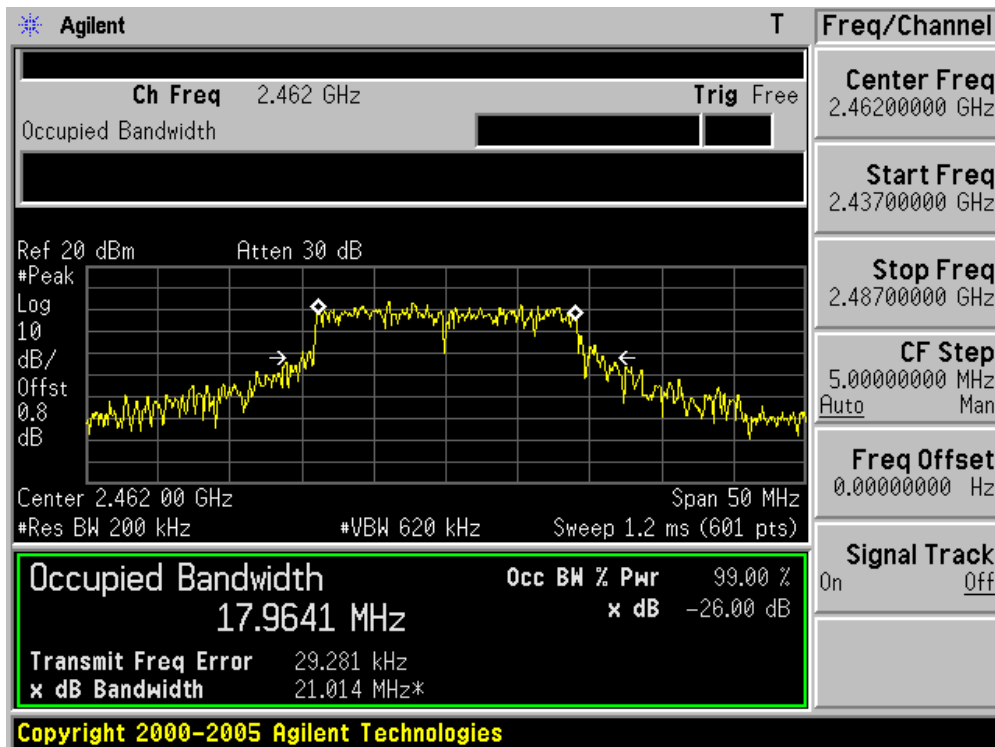
Channel 01 (2412MHz)



Channel 06 (2437MHz)



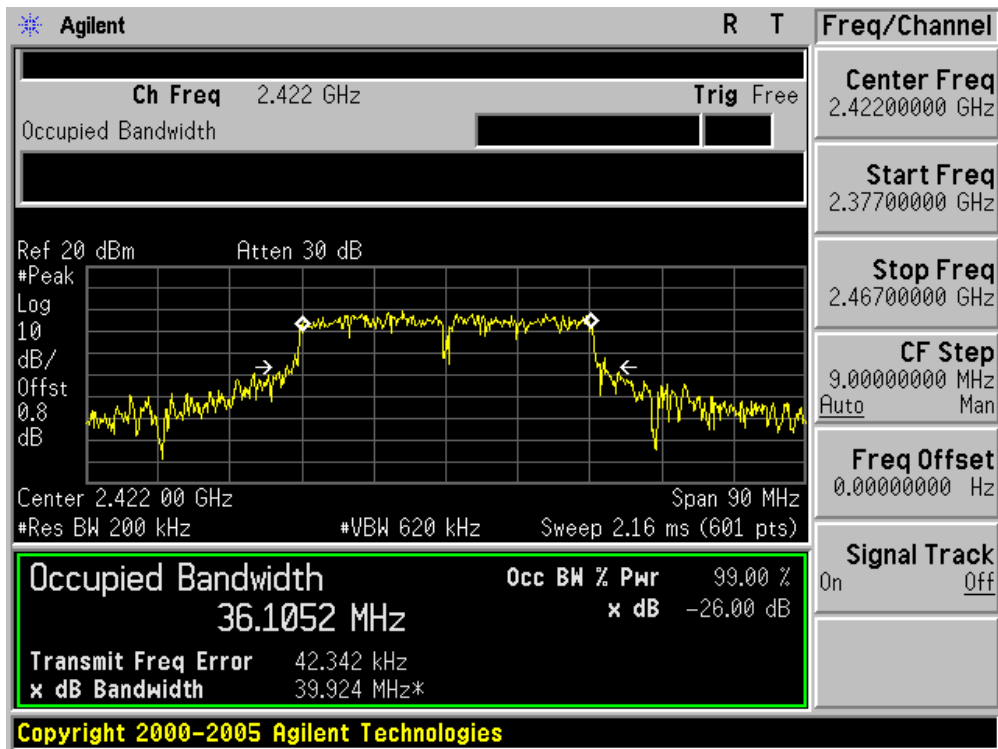
Channel 11 (2462MHz)



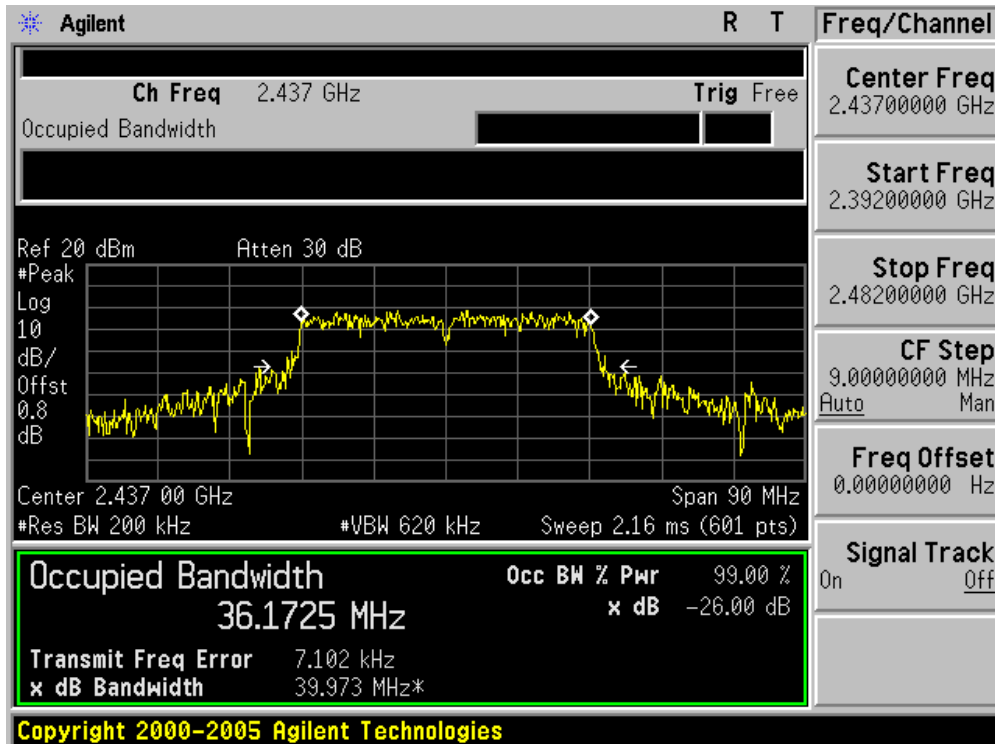
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Result
03	2422	36105.2	Pass
06	2437	36172.5	Pass
09	2452	36014.5	Pass

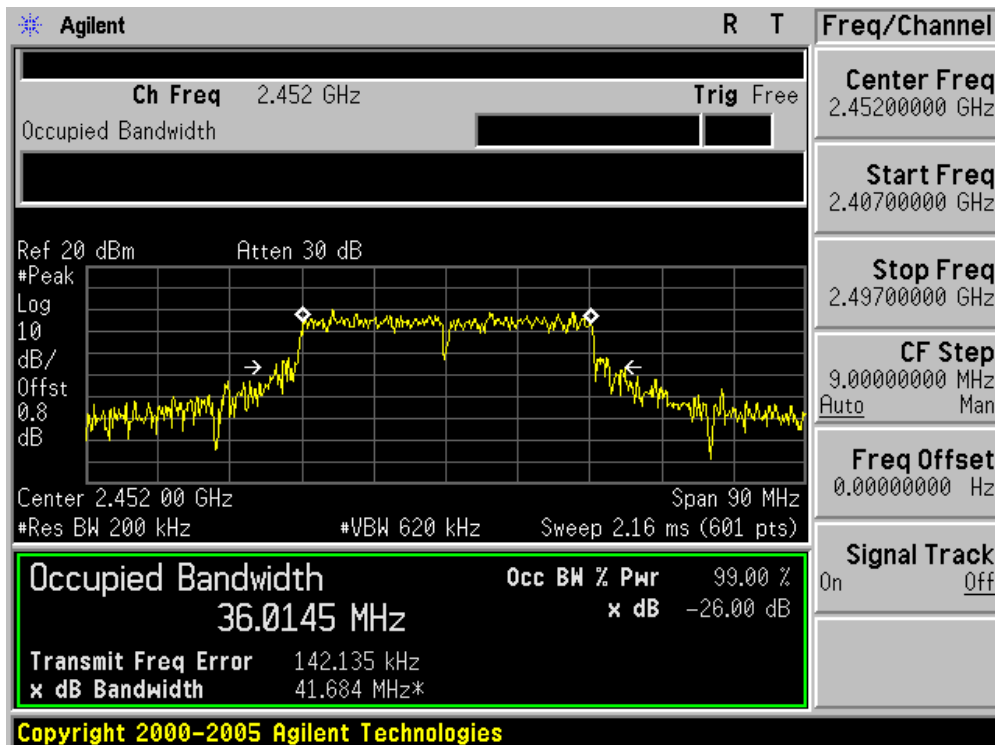
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

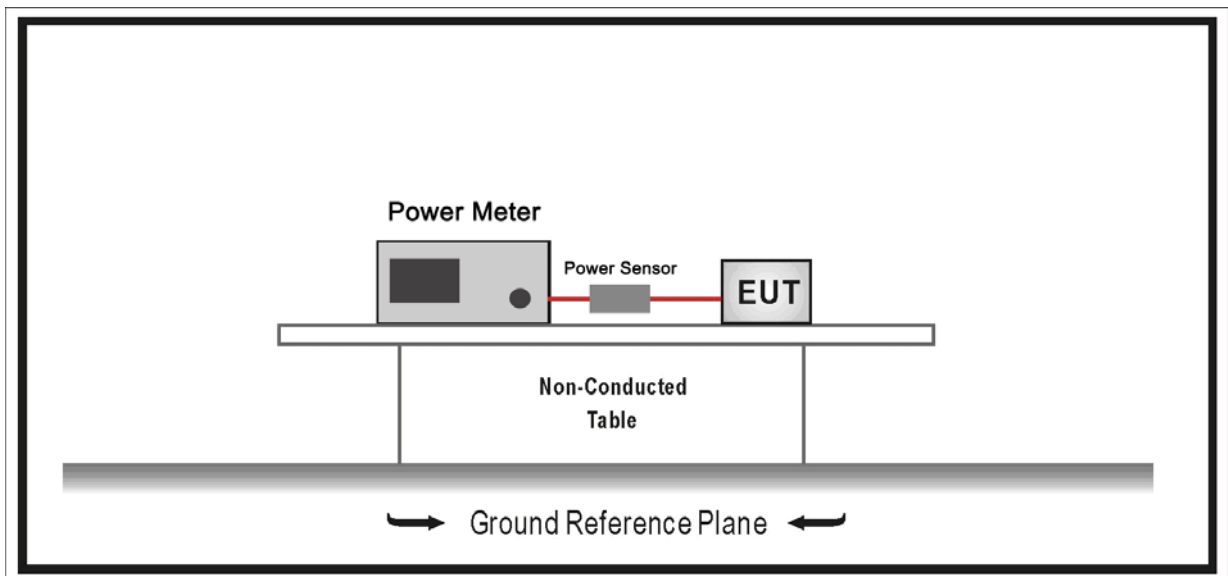
9.1. Test Equipment

Power Output / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2010.01.12
Power Sensor	Anritsu	MA2411B	0846014	2010.01.12
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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 maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

9.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

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)					
		802.11b	802.11g	20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6.5	7.2	13.5	15.0
1	1	2	9	13.0	14.4	27.0	30.0
2	1	5.5	12	19.5	21.7	40.5	45.0
3	1	11	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

Power output at various data rates:

Test Mode	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b	2437	6	1	18.54
			2	18.42
			5.5	18.34
			11	18.15
802.11g	2437	6	6	21.54
			9	21.46
			12	21.32
			18	21.18
			24	21.05
			36	21.02
			48	20.78
			54	20.64
802.11n (20M)	2437	6	6.5	21.54
			13.0	21.42
			19.5	21.38
			26.0	21.21
			39.0	21.07
			52.0	21.01
			58.5	20.92
			65.0	20.76
802.11n (40M)	2437	6	13.5	16.96
			27.0	16.92
			40.5	16.76
			54.0	16.54
			81.0	16.28
			108.0	16.12
			121.5	16.05
			135.0	15.86

Product	:	Eee PC
Test Item	:	Power Output

Test Mode	Channel No.	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
802.11b	01	2412	19.18	30	Pass
	06	2437	18.54	30	Pass
	11	2462	18.46	30	Pass
802.11g	01	2412	21.33	30	Pass
	06	2437	21.54	30	Pass
	11	2462	18.55	30	Pass
802.11n(20M)	01	2412	21.25	30	Pass
	06	2437	21.54	30	Pass
	11	2462	16.41	30	Pass
802.11n(40M)	03	2422	14.06	30	Pass
	06	2437	16.96	30	Pass
	09	2452	13.25	30	Pass

10. Power Spectral Density

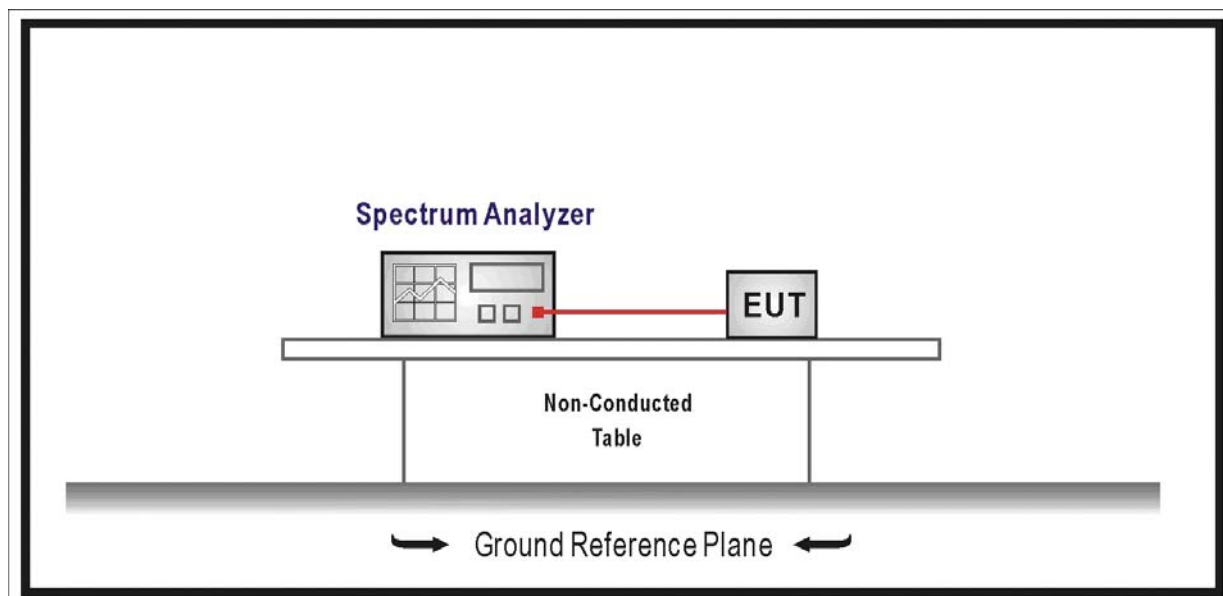
10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2010.04.30
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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

10.2. Test Setup



10.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

10.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW \geq 10 kHz, Sweep time=100s, Set detector=Peak detector.

10.5. Uncertainty

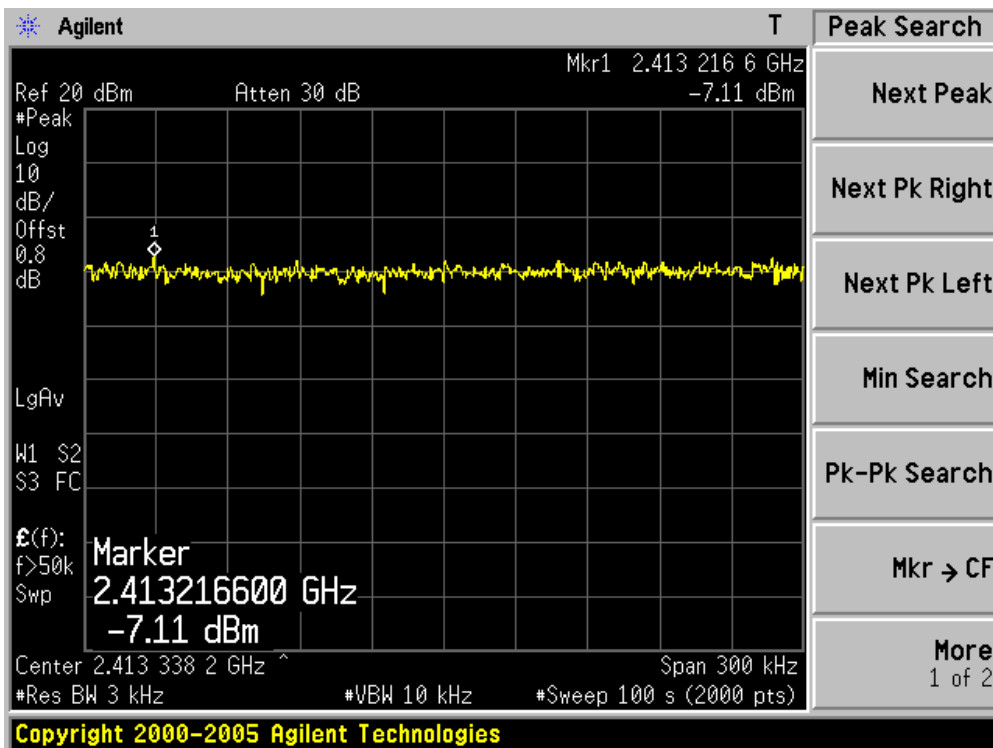
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

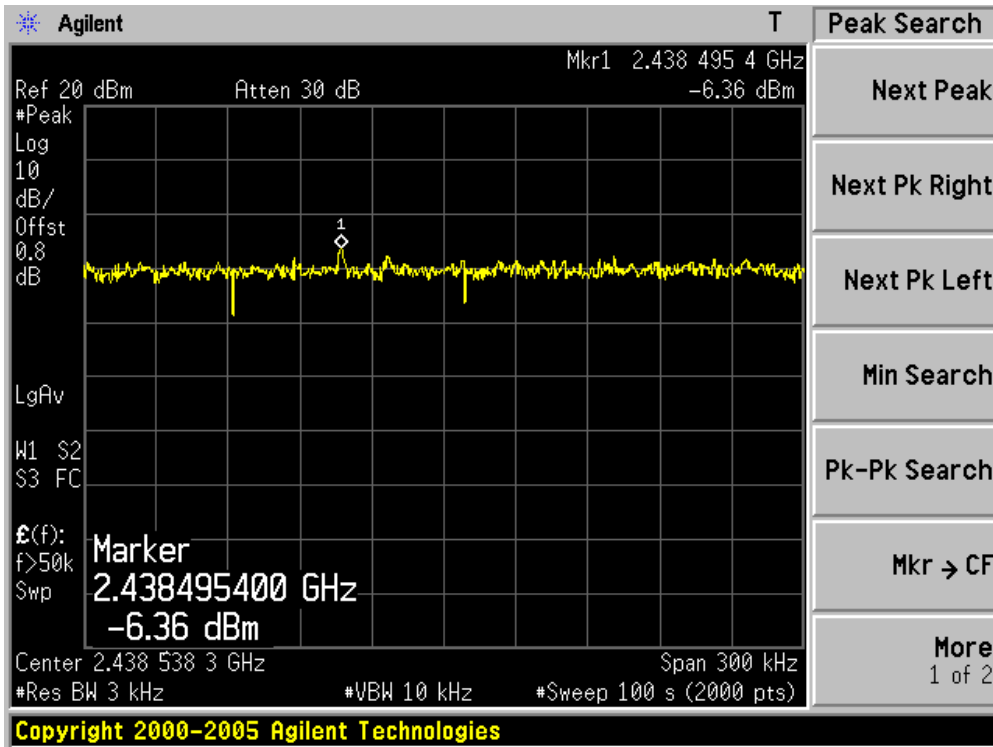
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-7.11	8	Pass
06	2437	-6.36	8	Pass
11	2462	-8.30	8	Pass

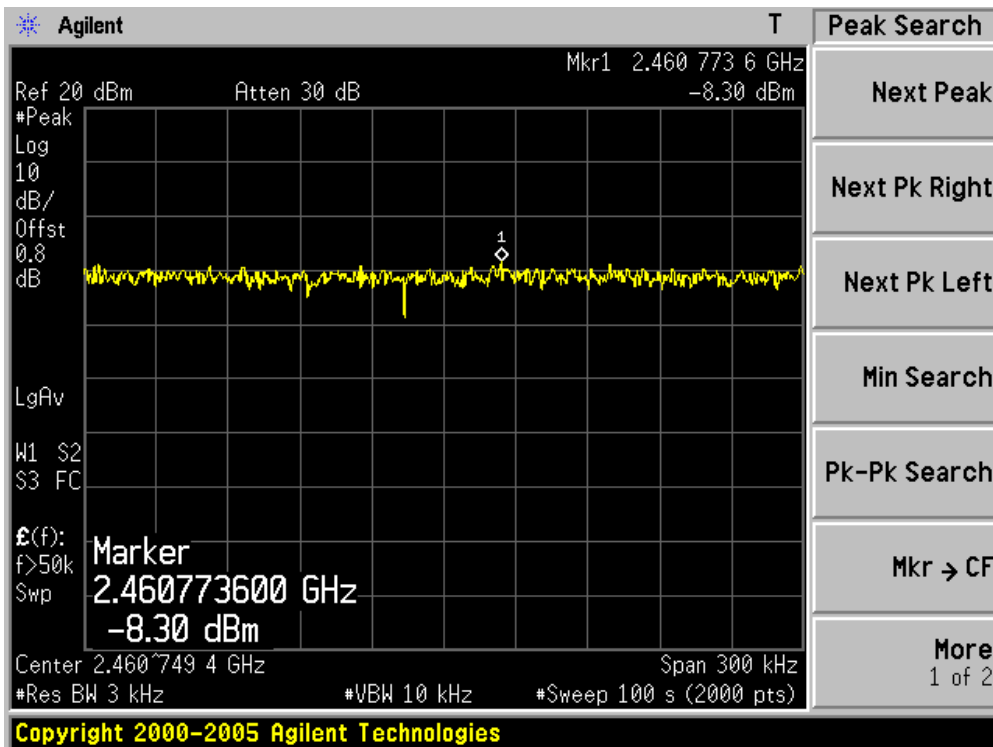
Channel 01 (2412MHz)



Channel 06 (2437MHz)



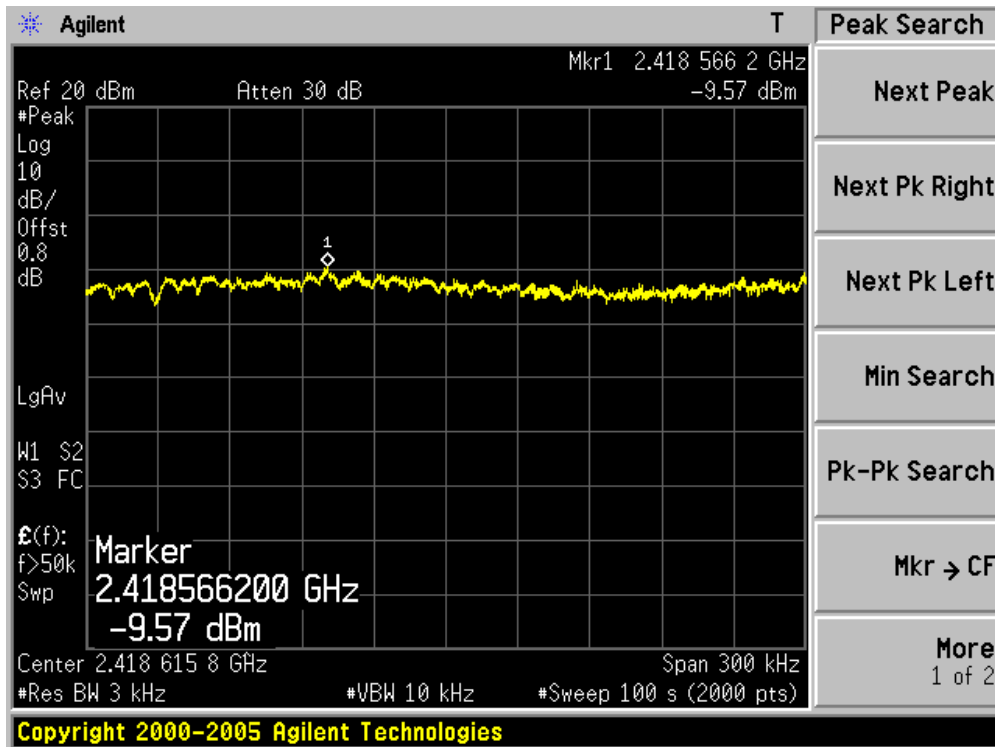
Channel 11 (2462MHz)



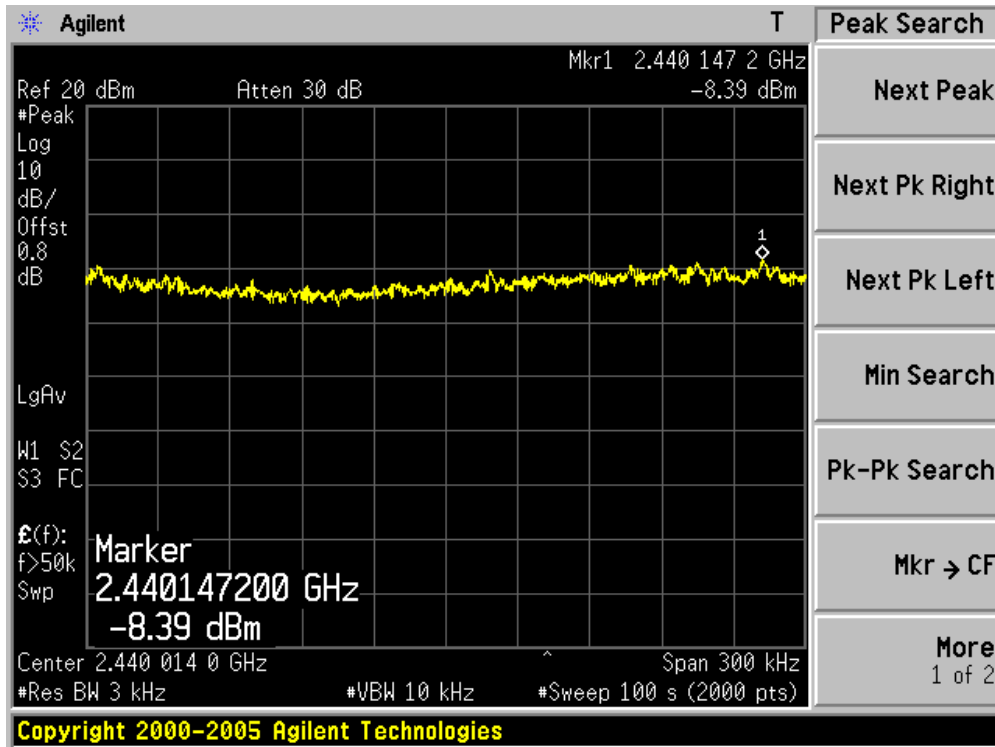
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-9.57	8	Pass
06	2437	-8.39	8	Pass
11	2462	-9.42	8	Pass

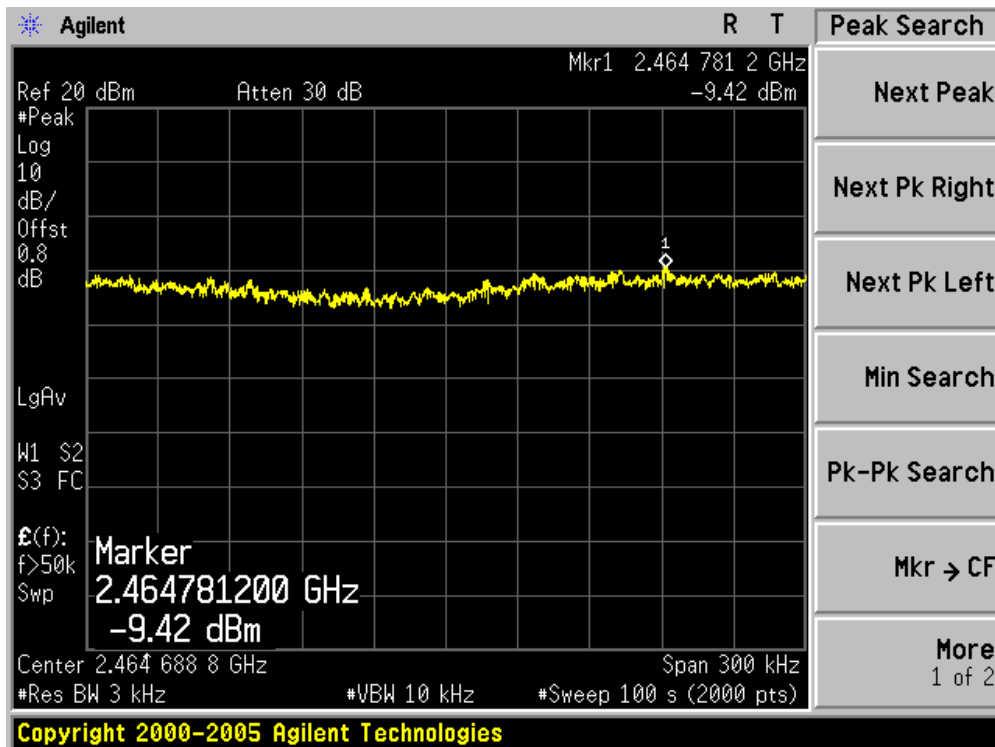
Channel 01 (2412MHz)



Channel 06 (2437MHz)



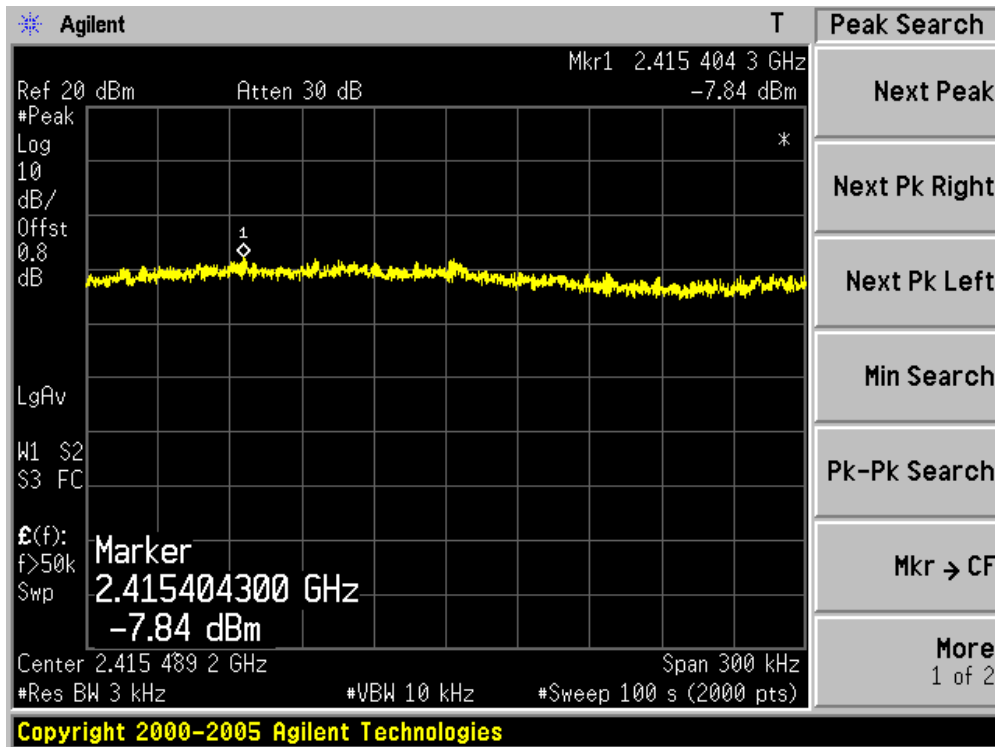
Channel 11 (2462MHz)



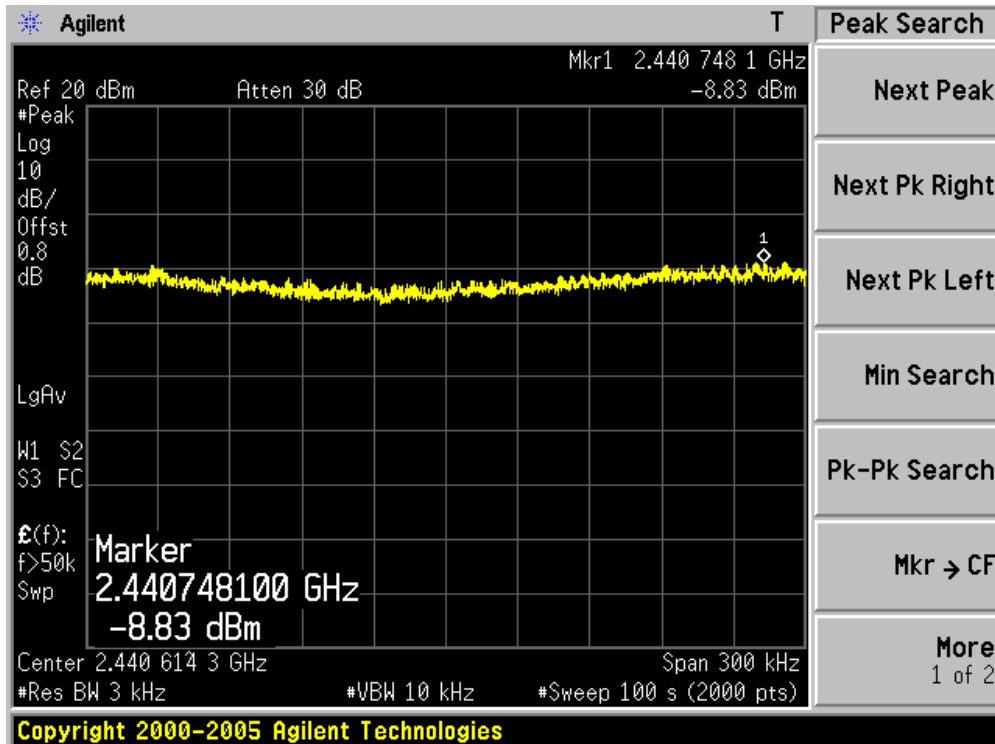
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-7.84	8	Pass
06	2437	-8.83	8	Pass
11	2462	-9.09	8	Pass

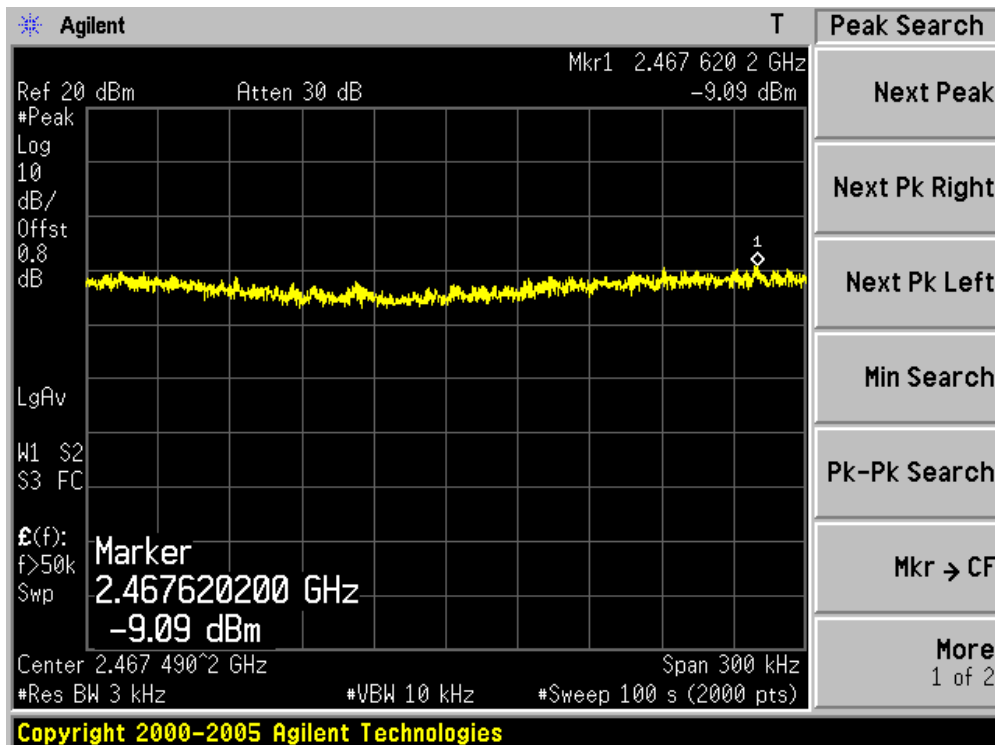
Channel 01 (2412MHz)



Channel 06 (2437MHz)



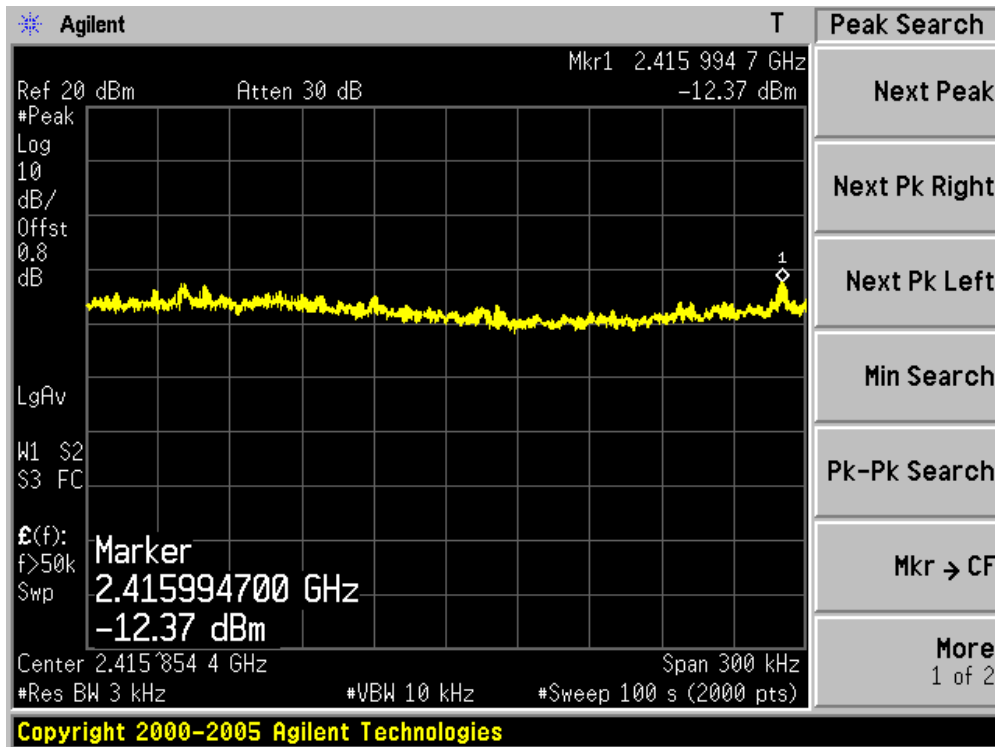
Channel 11 (2462MHz)



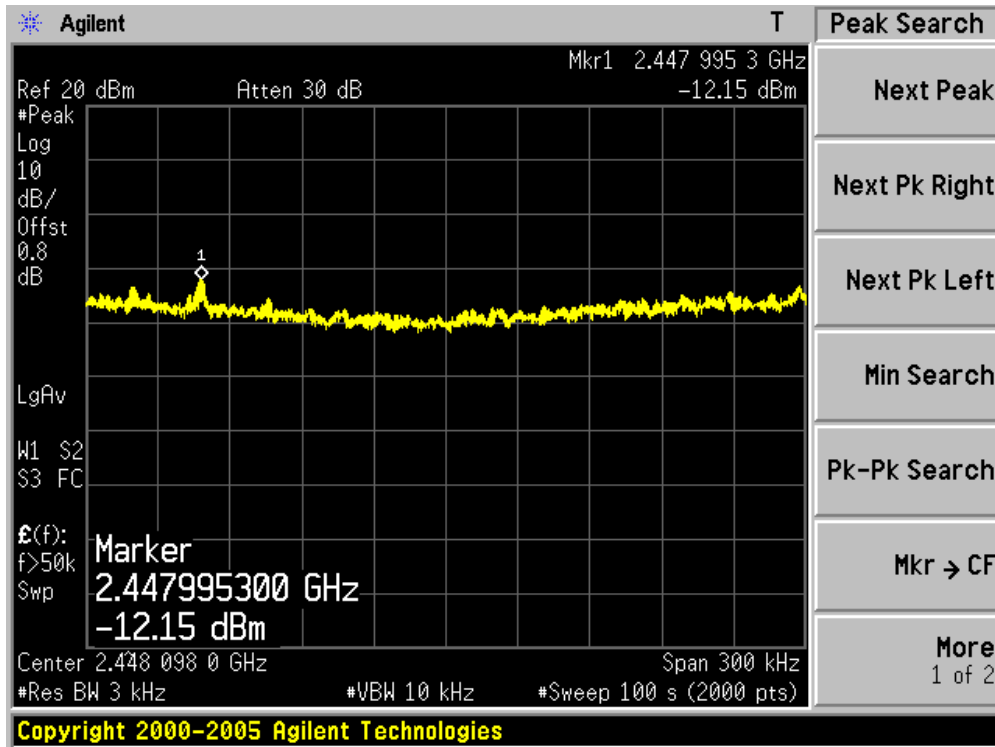
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
03	2422	-12.37	8	Pass
06	2437	-12.15	8	Pass
09	2452	-13.57	8	Pass

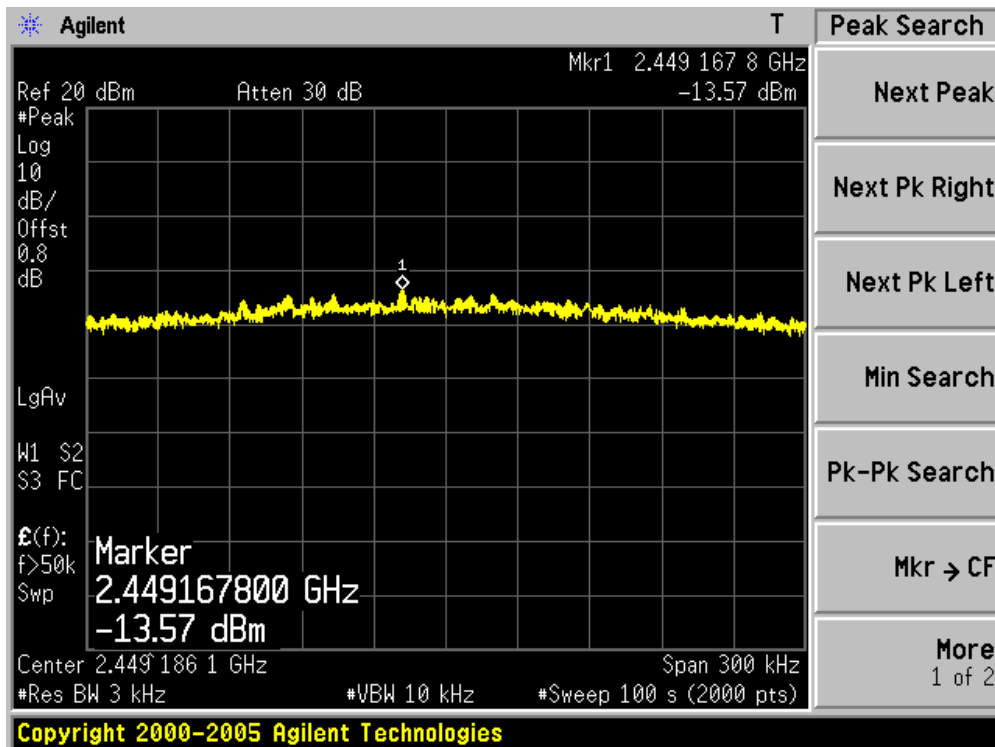
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



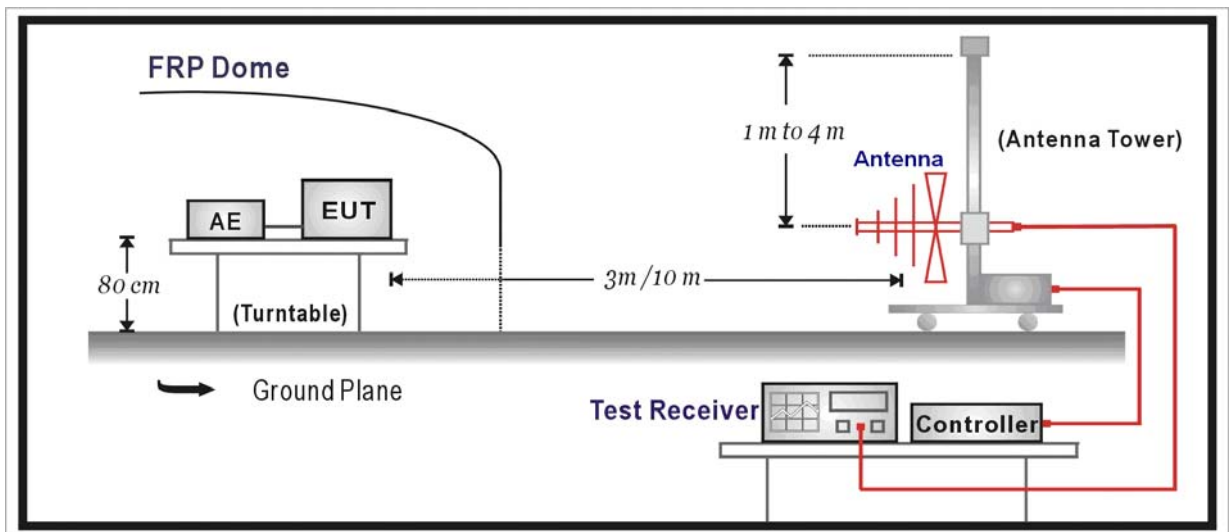
11. Receiver Spurious Emission for RSS-GEN

11.1. Test Specification

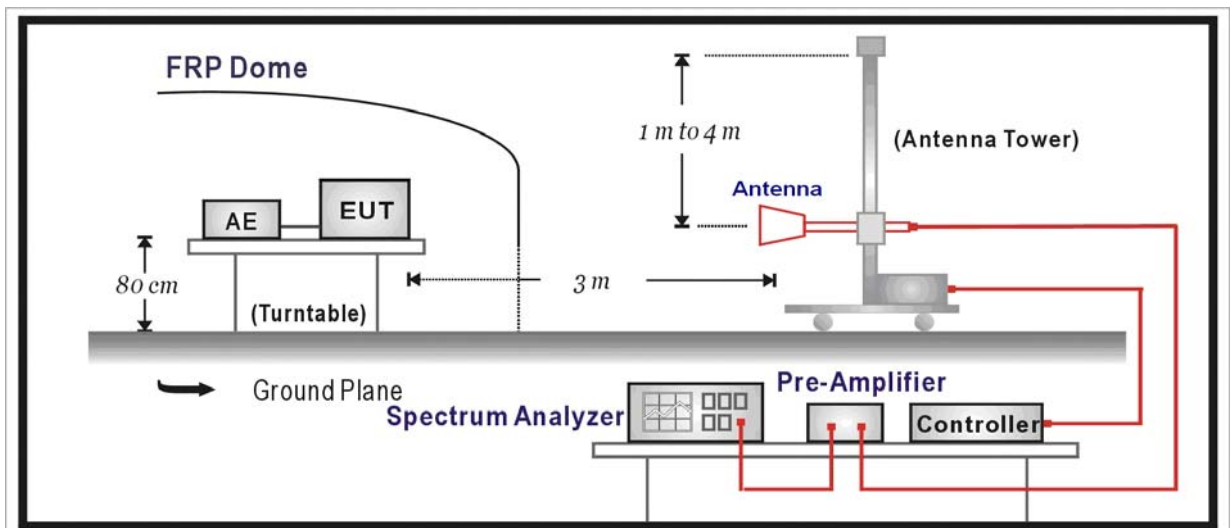
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4 or RSS-GEN

11.2. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



11.3. Limit

FCC Part 15 Subpart B Paragraph 15.109 & RSS-GEN		
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)

11.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 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 10 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000

500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

11.5. Deviation from Test Standard

No deviation.

11.6. 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.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preampifier Gain

802.11n(20MHz)

Channel	Frequency Range (MHz)	Measure Level (dBuV/m)	Detector Type	Limit (dBuV/m)
1	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)
6	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)
11	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n(40MHz)

Channel	Frequency Range (MHz)	Measure Level (dBuV/m)	Detector Type	Limit (dBuV/m)
3	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)
6	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)
9	30~88	≤21	QP	40
	88~216	≤18	QP	43.5
	216~960	≤31	QP	46
	960~1000	≤32	QP	54
	1000~25000	≤49	PK	54 (Note 1)

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.