

FCC Part15 Subpart C Test Report

Product Name : Eee PC
Model No. : Eee Pc 1015P, Eee PC 1015PE
FCC ID : MSQE15NE762

Applicant : ASUSTEK COMPUTER INC.

Address : 4FL., NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C

Date of Receipt : Mar. 24, 2010
Test Date : Mar. 25, 2010 ~ Mar. 28, 2010
Issued Date : Mar. 29, 2010
Report No. : 103S080R-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 : Mar. 29, 2010
 Report No. : 103S080R-RF-US-P05V01



Product Name : Eee PC
 Applicant : ASUSTEK COMPUTER INC.
 Address : 4FL., NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C
 Manufacturer : PROTEK (Shanghai) Limited
 Address : NO.3768 Xiu Yan Rd.Kang Qiao Town, PuDong Dist,
 Shang Hai
 Model No. : Eee Pc 1015P, Eee PC 1015PE
 FCC ID : MSQE15NE762
 EUT Voltage : 19Vdc
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
 ANSI C63.4: 2003
 Test Result : Complied
 Performed Location : SuZhou EMC laboratory
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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/>
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1. General Information

1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee Pc 1015P, Eee PC 1015PE
EUT Voltage	19Vdc
WLAN Module	AW-NE762H
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	4.13 dBi for 2.4GHz band
AC Adapter	Manufacturer: PI ELECTRONICS (China Plant) M/N: AD6630 Input: 100-240V~50/60Hz 1.0A Output: 19Vdc, 2.1A

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)
802.11bgn Antenna	Yageo	C660-520265-A	1.85dBi for 2.4G
802.11bgn Antenna	ACON	APP6P-700398	4.13dBi for 2.4G
802.11bgn Antenna	Pegatron	C660-520265-A	0.77dBi for 2.4G

Note: Antenna manufactured by ACON was used for testing.

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:

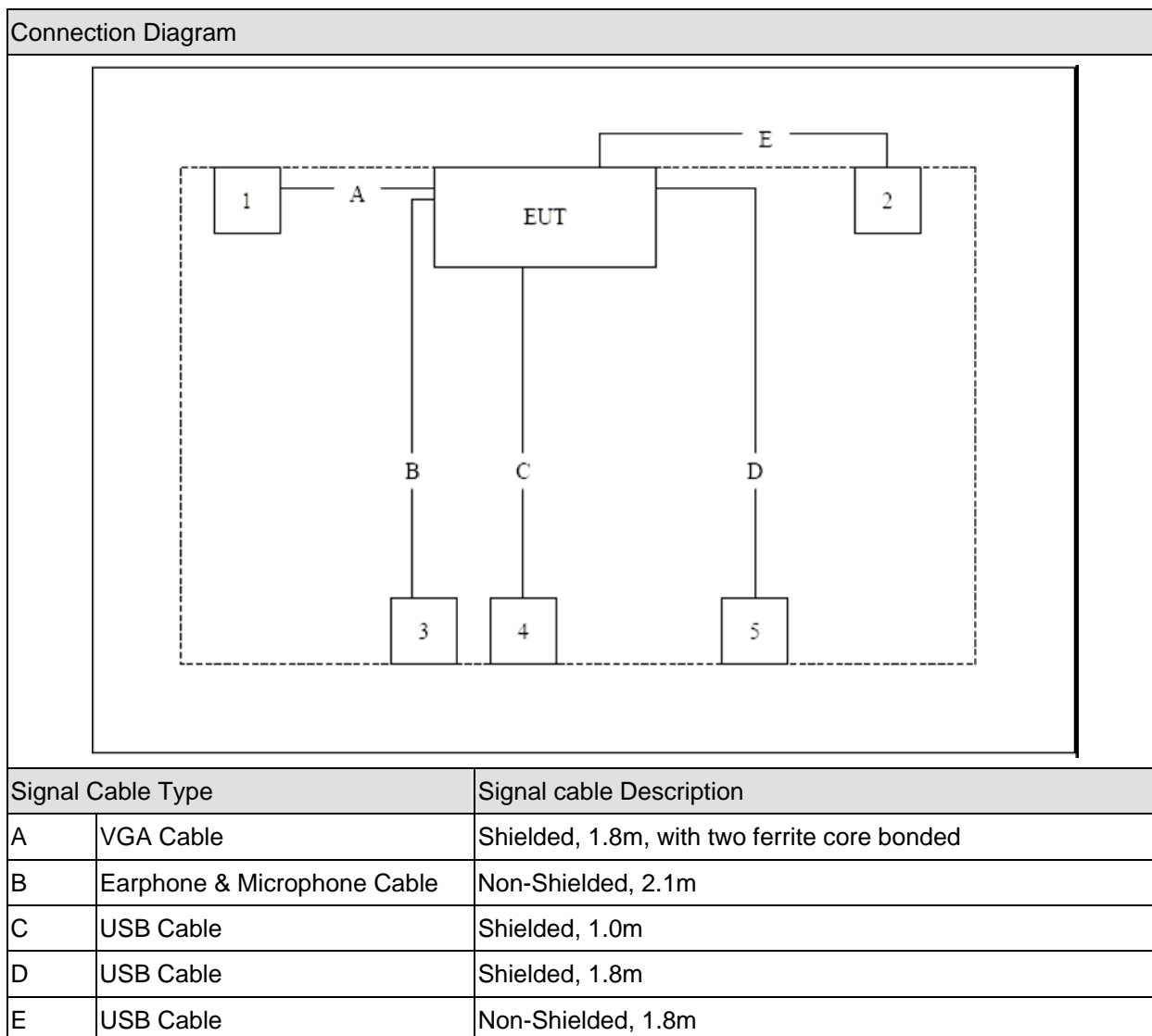
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 103S080R-RF-US-P02V01.

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 Microphone & Earphone	SOMIC	CD-2688M.V	N/A	N/A
4 iPod	Apple	A1199	6U715UPHVQ5	Power by PC
5 USB Mouse	DELL	MO56UOA	F1B03EZZ	Power by PC

1.4. Configuration of Tested System



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 "RaUI" 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

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

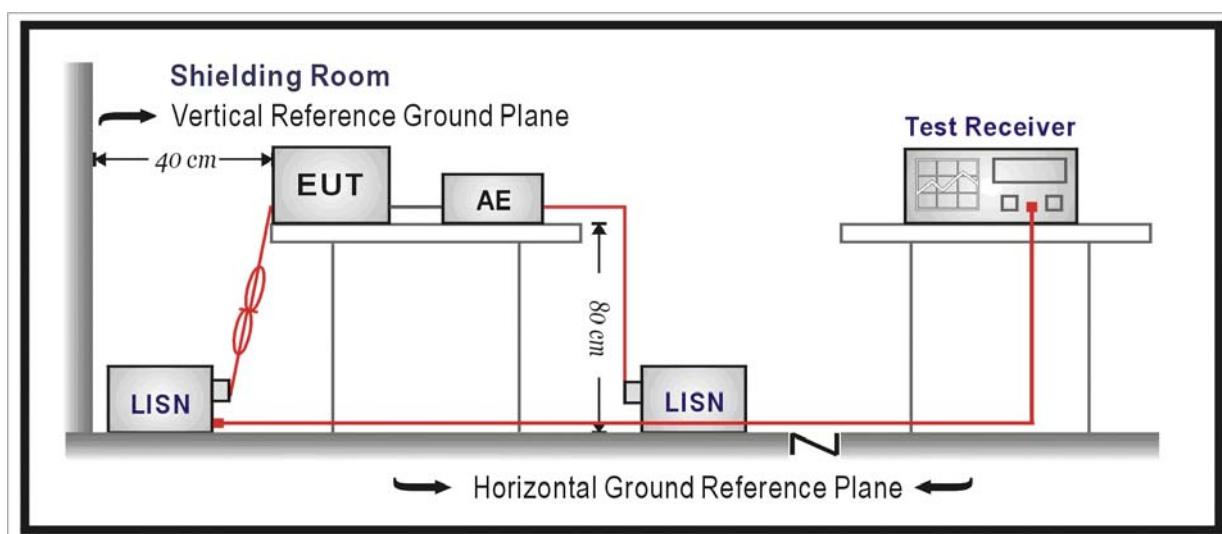
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2009/04/23
Two-Line V-Network	R&S	ENV216	100013	2009/06/11
Two-Line V-Network	R&S	ENV216	100014	2009/04/23
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2009/05/25
50ohm Termination	SHX	TF2	07081401	2009/09/29
Temperature/Humidity Meter	zhicheng	ZC1-2	SR1-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.

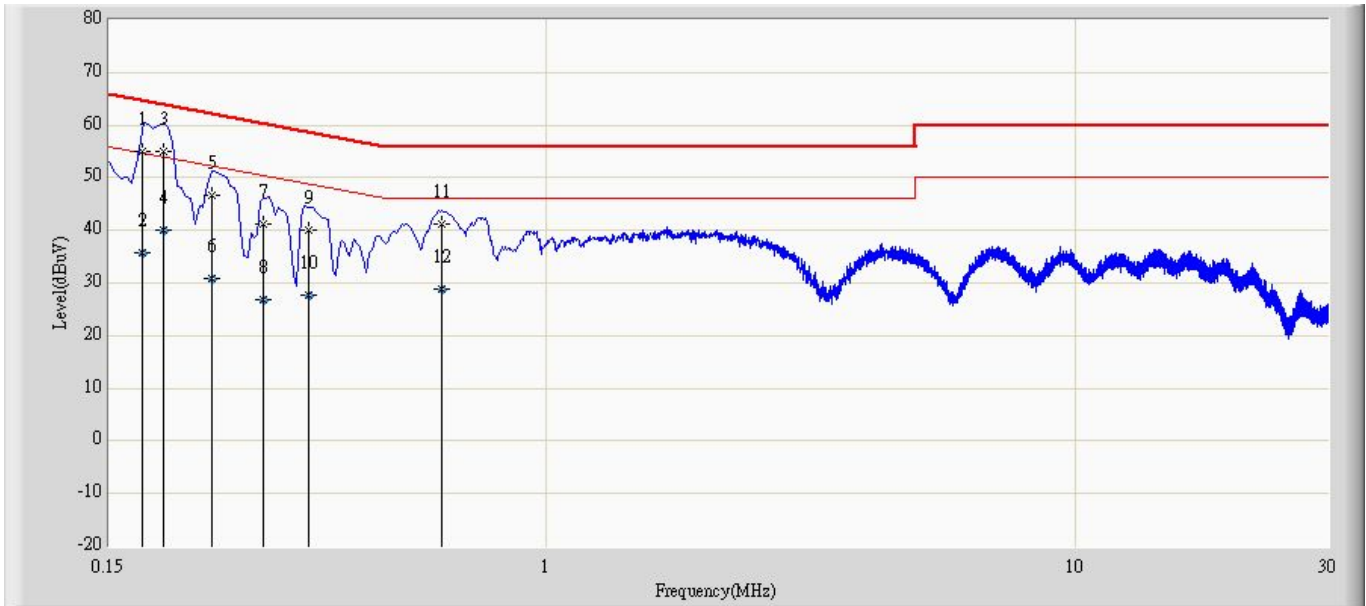
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

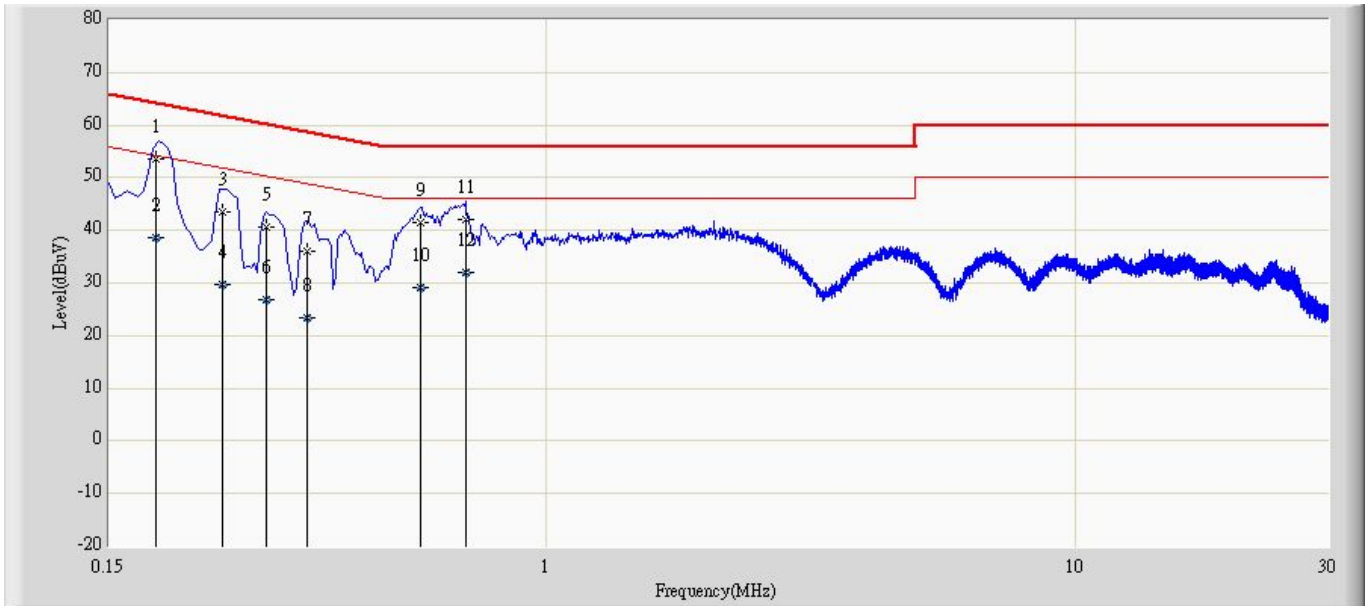
3.6. Test Result

Profile: 103S080R	Page No.: 3
Engineer: Ken	
Site: SR1	Time: 2010/03/26 - 19:01
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			0.173	54.894	45.28	-9.942	64.837	9.614	QP
2			0.173	35.862	26.248	-18.975	54.837	9.614	AV
3		*	0.19	54.939	45.285	-9.097	64.037	9.654	QP
4			0.19	40.032	30.378	-14.004	54.037	9.654	AV
5			0.234	46.549	36.869	-15.758	62.307	9.68	QP
6			0.234	30.964	21.284	-21.343	52.307	9.68	AV
7			0.294	41.196	31.516	-19.215	60.411	9.68	QP
8			0.294	26.929	17.249	-23.482	50.411	9.68	AV
9			0.358	39.946	30.266	-18.828	58.775	9.68	QP
10			0.358	27.731	18.051	-21.044	48.775	9.68	AV
11			0.638	41.11	31.42	-14.89	56	9.69	QP
12			0.638	28.898	19.208	-17.102	46	9.69	AV

Profile: 103S080R	Page No.: 4
Engineer: Ken	
Site: SR1	Time: 2010/03/26 - 19:07
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		*	0.184	53.538	43.85	-10.751	64.289	9.688	QP
2			0.184	38.56	28.872	-15.729	54.289	9.688	AV
3			0.246	43.64	33.989	-18.251	61.891	9.652	QP
4			0.246	29.663	20.012	-22.228	51.891	9.652	AV
5			0.298	40.772	31.119	-19.526	60.298	9.653	QP
6			0.298	26.831	17.177	-23.468	50.298	9.653	AV
7			0.354	36.011	26.356	-22.857	58.868	9.655	QP
8			0.354	23.503	13.848	-25.365	48.868	9.655	AV
9			0.582	41.495	31.817	-14.505	56	9.678	QP
10			0.582	29.008	19.33	-16.992	46	9.678	AV
11			0.706	42.017	32.326	-13.983	56	9.69	QP
12			0.706	32.069	22.378	-13.931	46	9.69	AV

4. Radiated Emission

4.1. Test Equipment

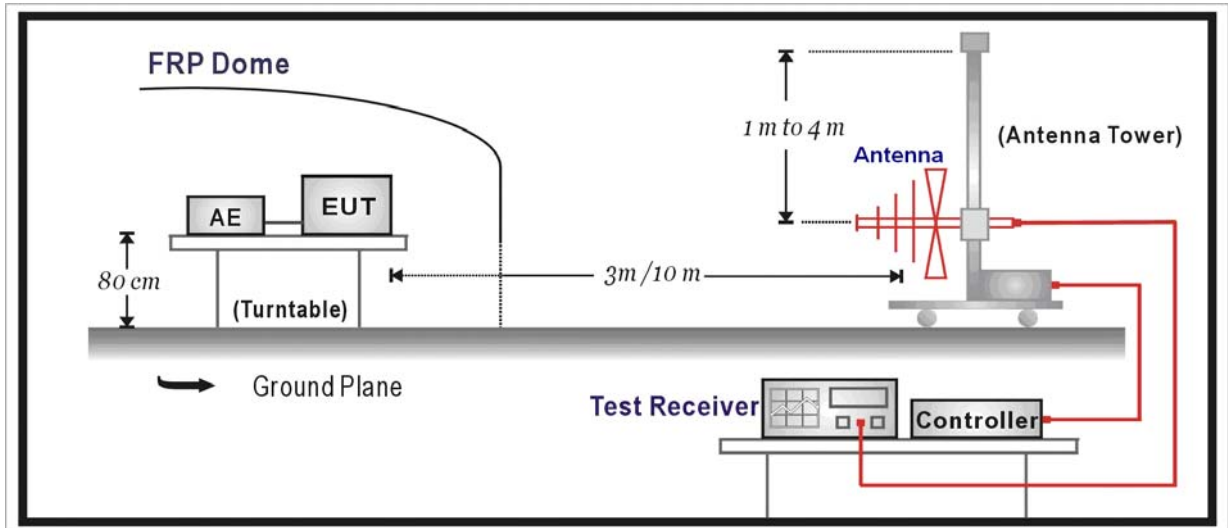
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
EMI Test Receiver	R&S	ESCI	100906	2010.01.15
Preamplifier	Quietek	AP-180C	CHM-0602013	2009.05.25
Preamplifier	Quietek	AP-040G	CHM-0906001	2009.06.18
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2009.11.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2009.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2009.11.24
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2010.01.14

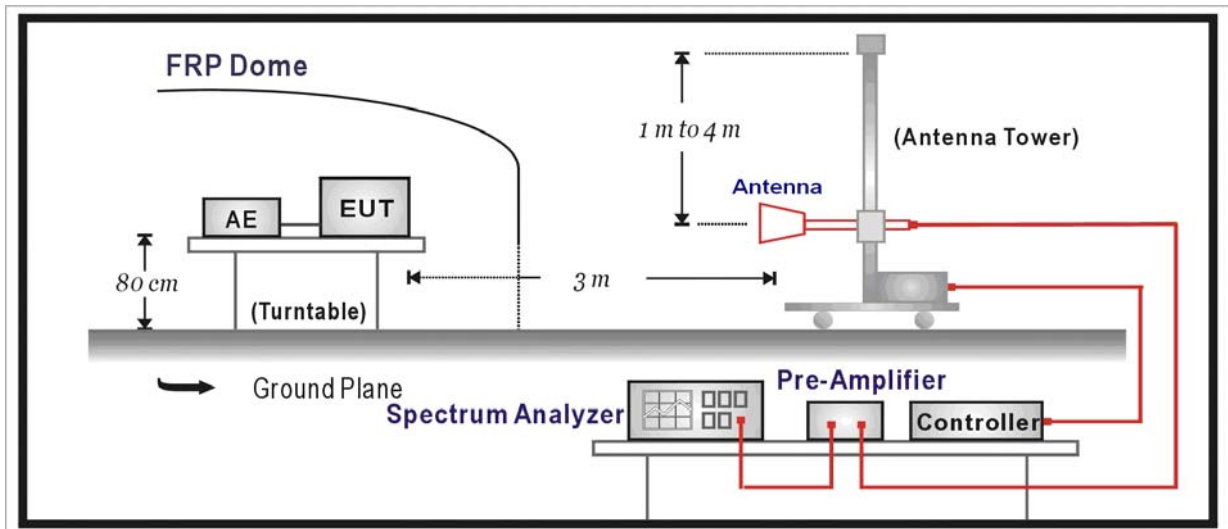
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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 - Preampifier 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	2410.6	75.4	32.0	107.4	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4824.0	54.2	-14.0	40.2	54	-13.8	PK
	V	7236.0	52.7	-5.4	47.3	54	-6.7	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	74.4	31.2	105.6	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4874.0	50.2	-13.6	36.6	54	-17.4	PK
	V	7311.0	48.8	-5.3	43.5	54	-10.5	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2462.0	73.3	31.2	104.5	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	56.4	-17.4	41.7	54	-12.3	PK
	V	4924.0	57.1	-13.7	43.4	54	-10.6	PK
	V	7386.0	51.9	-5.0	46.9	54	-7.1	PK
	V	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	2407.1	75.0	31.1	106.1	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4824.0	54.2	-14.0	40.2	54	-13.8	PK
	V	7236.0	51.5	-5.4	46.1	54	-7.9	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.1	75.2	31.2	106.4	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4874.0	52.4	-13.6	38.8	54	-15.2	PK
	V	7311.0	51.1	-5.3	45.8	54	-8.2	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2457.1	75.3	30.8	106.1	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4924.0	57.3	-13.7	43.6	54	-10.4	PK
	V	7386.0	50.2	-5.0	45.2	54	-8.8	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2410.4	75.9	31.1	107.0	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4824.0	54.1	-14.0	40.1	54	-13.9	PK
	V	7236.0	51.2	-5.4	45.8	54	-8.2	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2439.3	71.4	31.2	102.6	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4874.0	53.2	-13.6	39.6	54	-14.4	PK
	V	7311.0	50.7	-5.3	45.4	54	-8.6	PK
	V	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	2464.8	76.2	31.2	107.4	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	55.2	-17.4	41.7	54	-12.3	PK
	V	4924.0	58.1	-13.7	44.4	54	-9.6	PK
	V	7386.0	51.9	-5.0	46.9	54	-7.1	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	2423.5	72.3	30.6	102.9	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4844.0	53.8	-14.0	39.8	54	-14.2	PK
	V	7266.0	49.7	-5.5	44.2	54	-9.8	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	71.2	31.2	102.4	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4874.0	54.2	-13.6	40.6	54	-13.4	PK
	V	7311.0	50.4	-5.3	45.1	54	-8.9	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
9	H	2448.8	70.9	30.9	101.8	Fundamental	/	PK
	H	195.9	48.3	-21.3	27.0	43.5	-16.5	QP
	H	227.2	45.2	-21.3	23.9	46	-22.1	QP
	V	2999.6	59.1	-17.4	41.7	54	-12.3	PK
	V	4904.0	57.3	-13.7	43.6	54	-10.4	PK
	V	7356.0	51.7	-5.0	46.7	54	-7.3	PK
	V	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

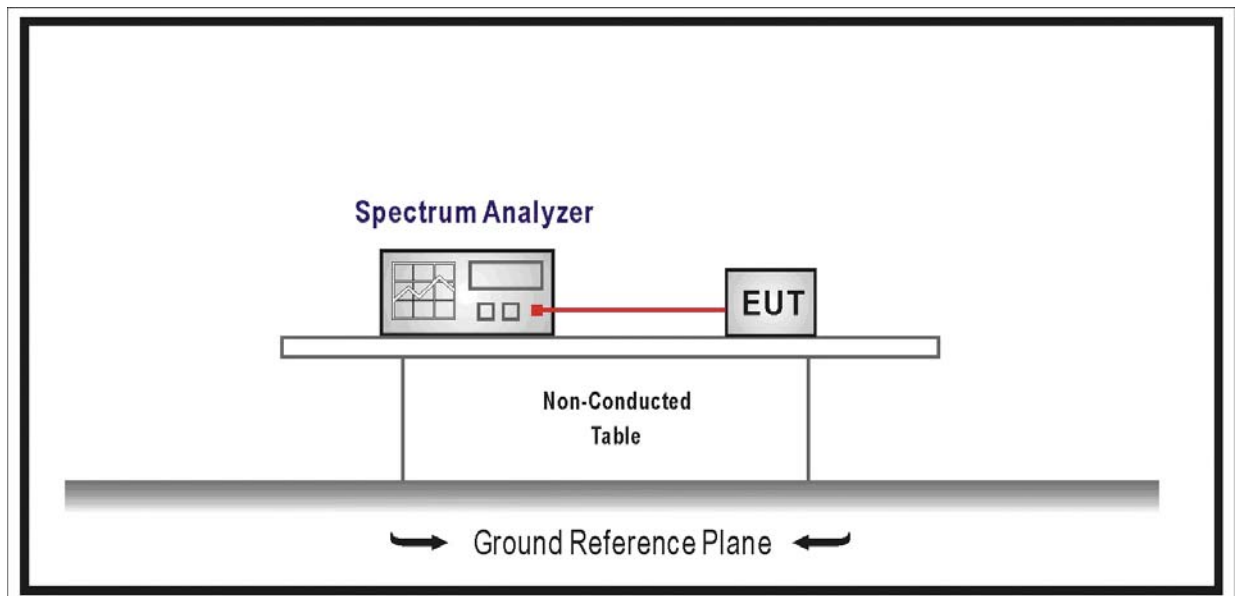
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
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.

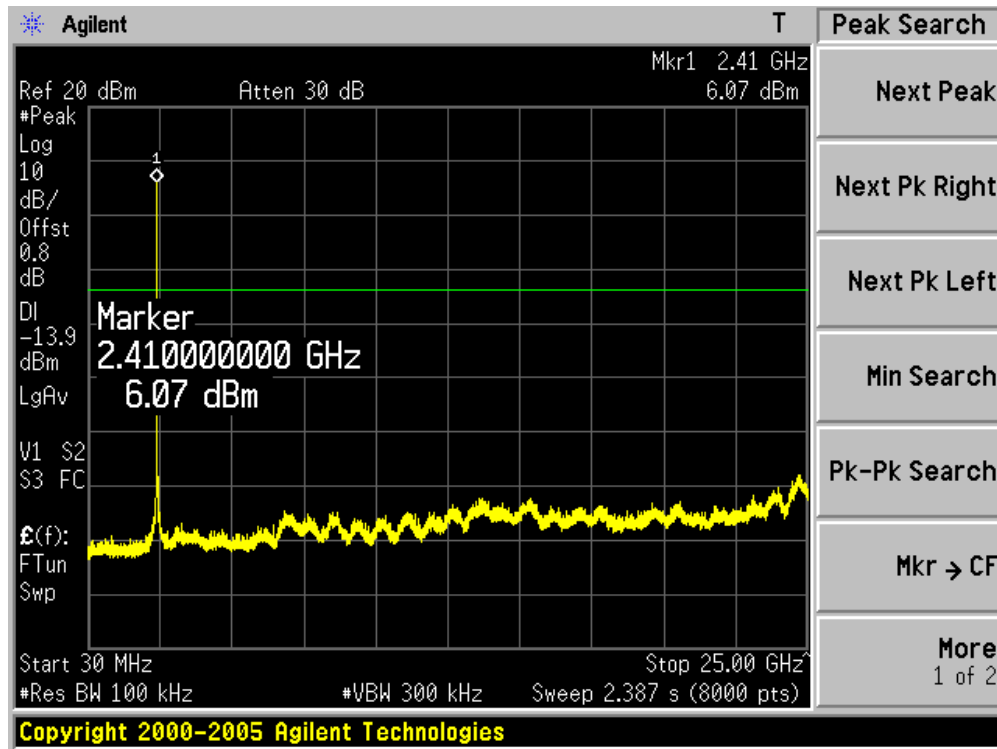
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

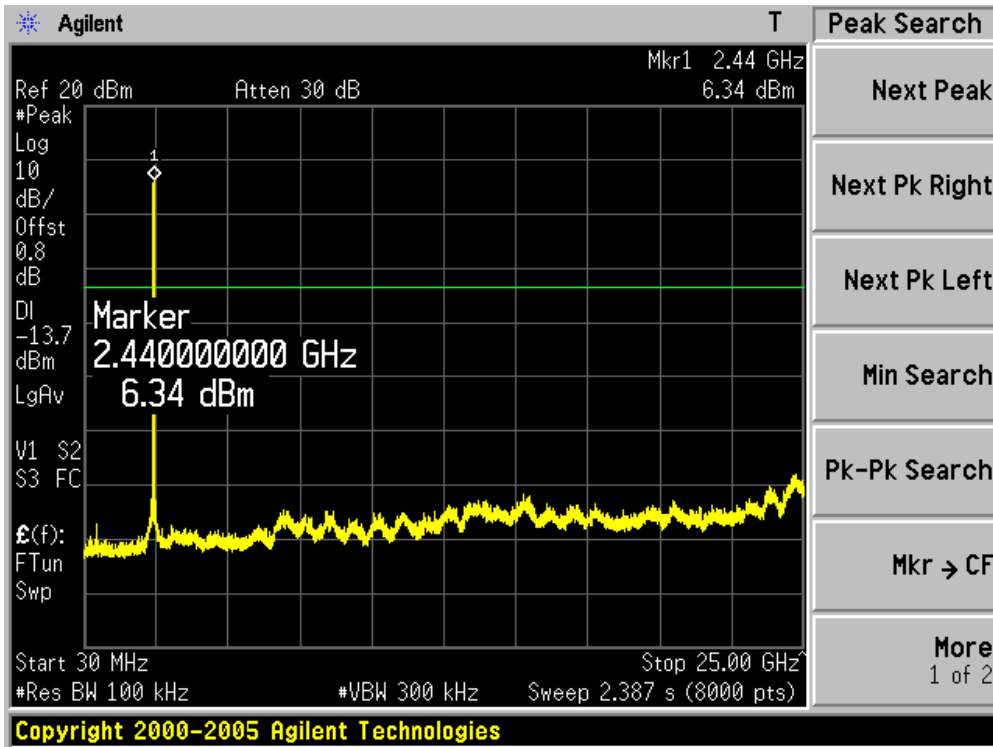
5.6. Test Result

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

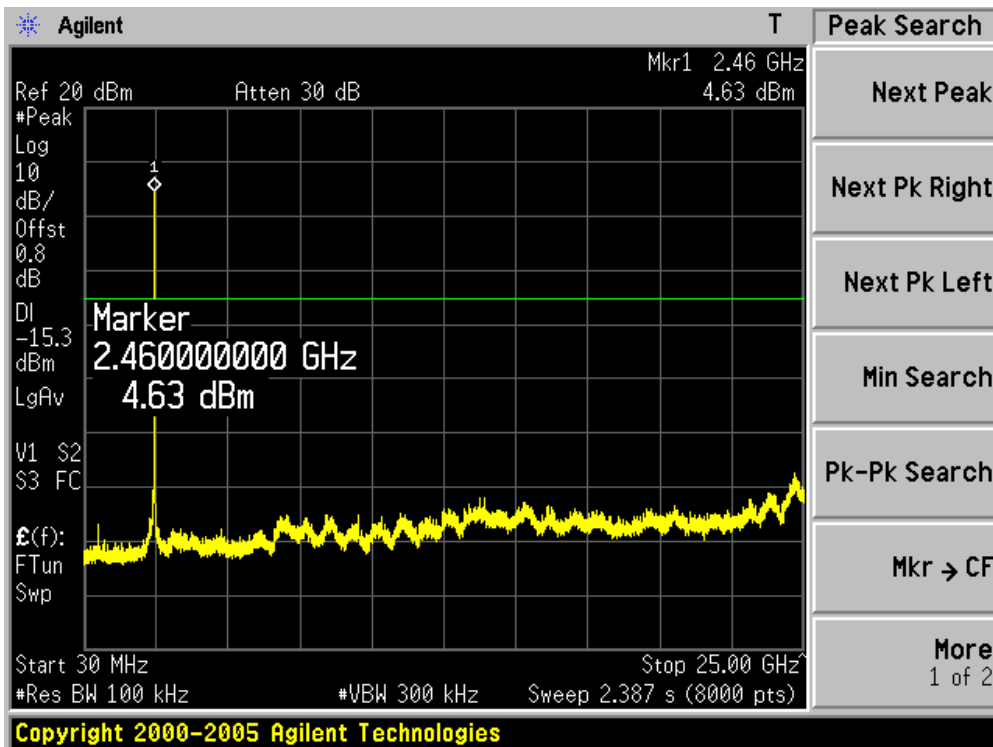
Channel 01 (2412MHz)



Channel 06 (2437MHz)

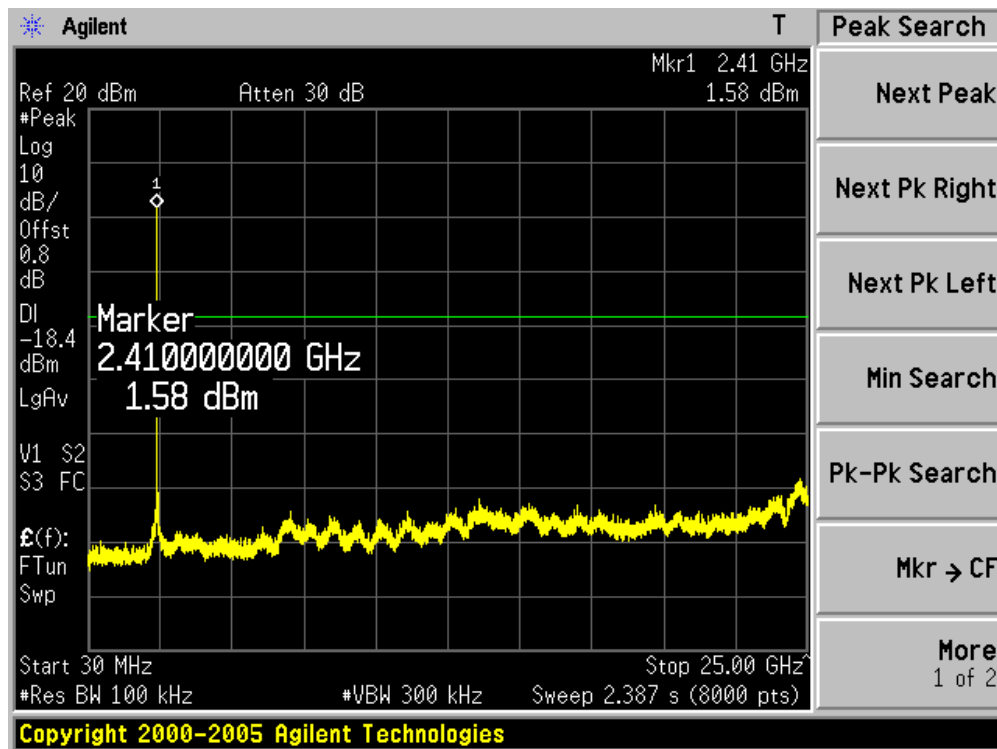


Channel 11 (2462MHz)

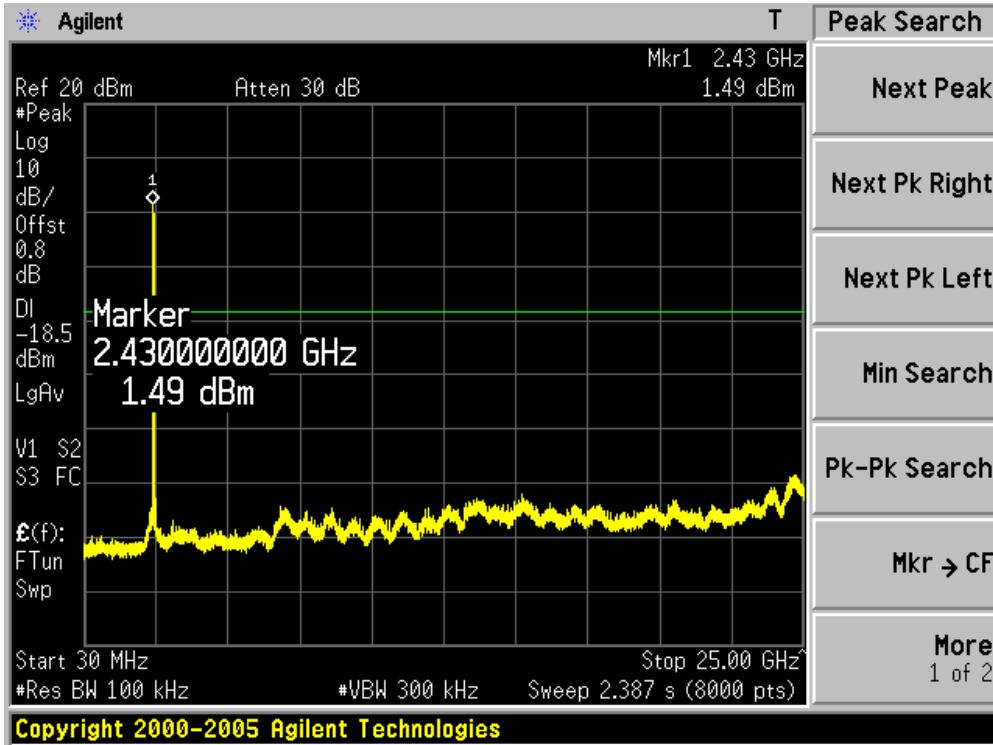


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g

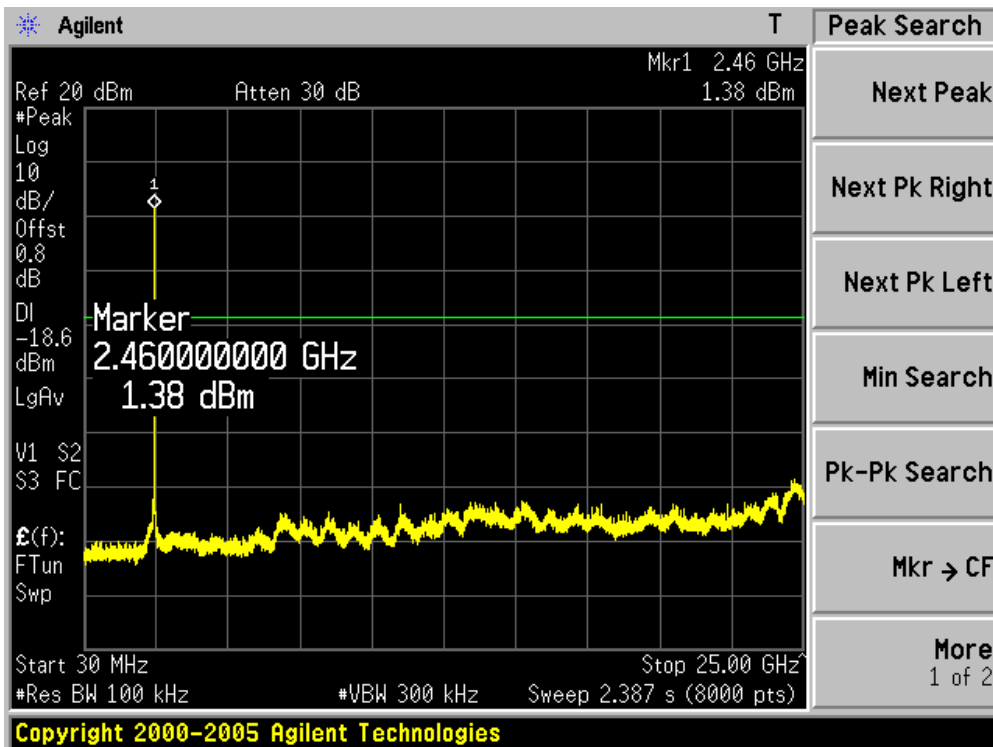
Channel 01 (2412MHz)



Channel 06 (2437MHz)

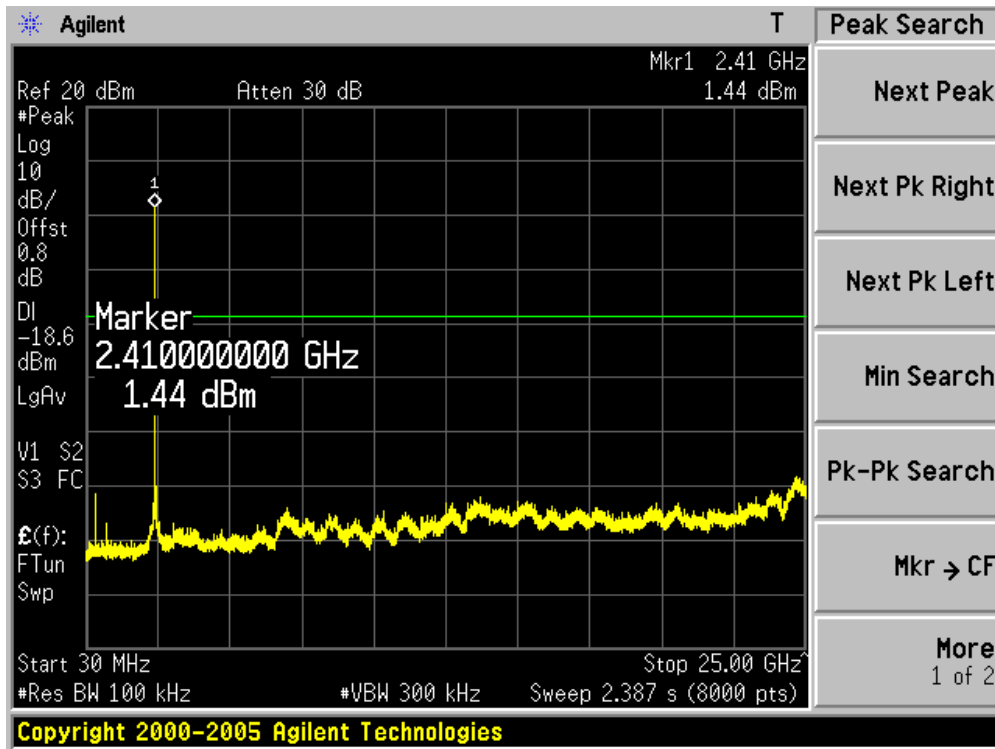


Channel 11 (2462MHz)

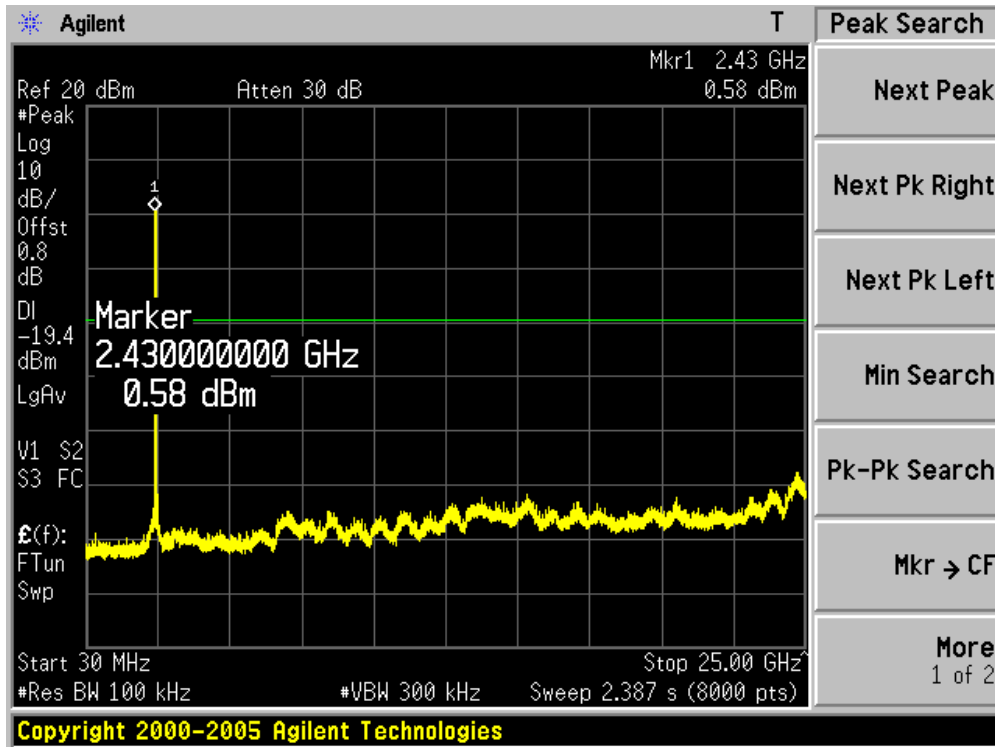


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

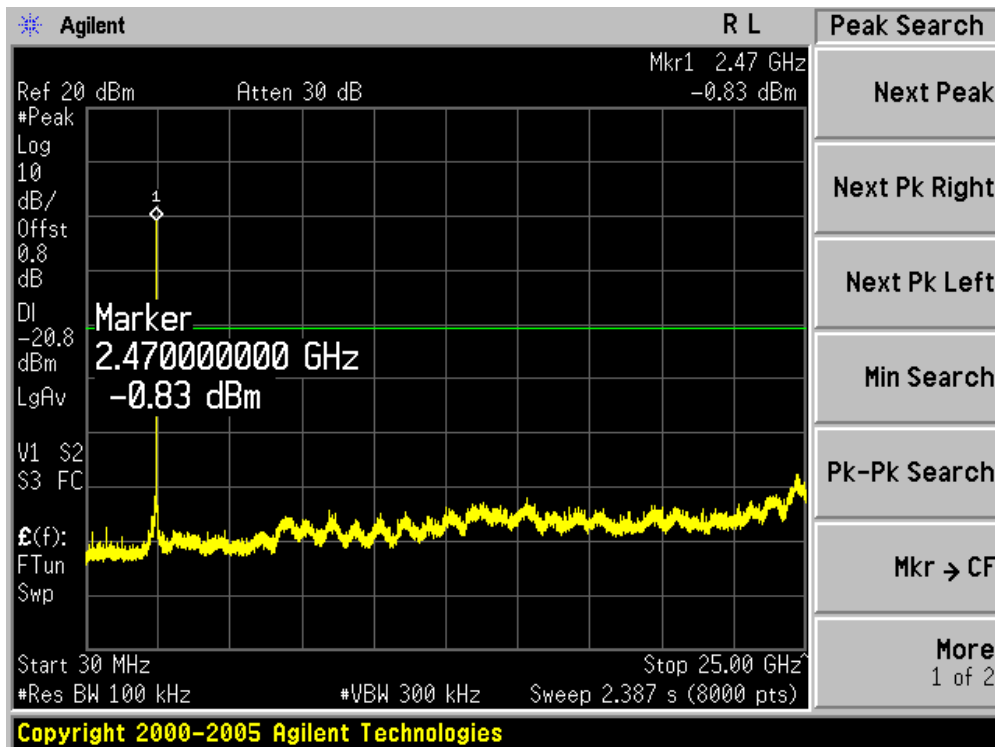
Channel 01 (2412MHz)



Channel 06 (2437MHz)

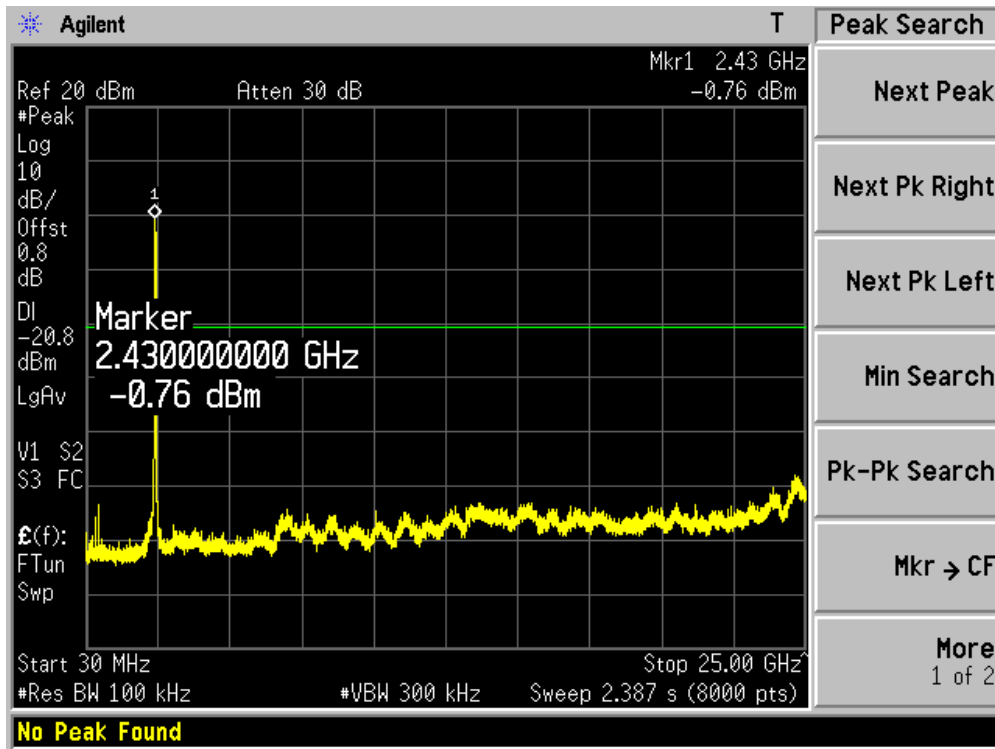


Channel 11 (2462MHz)

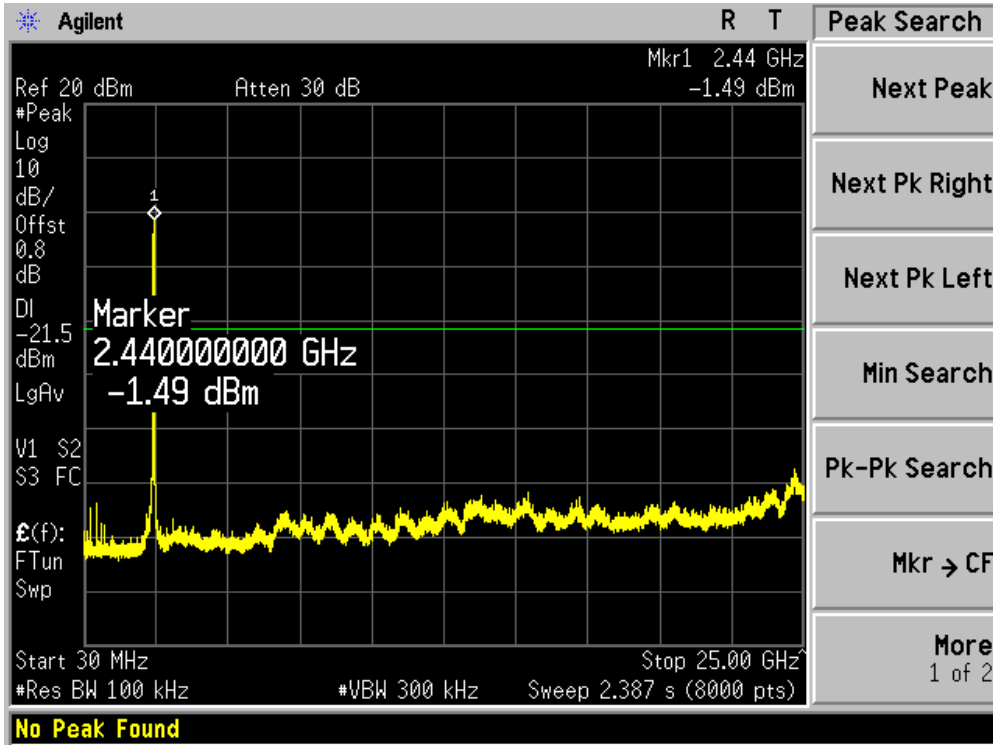


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

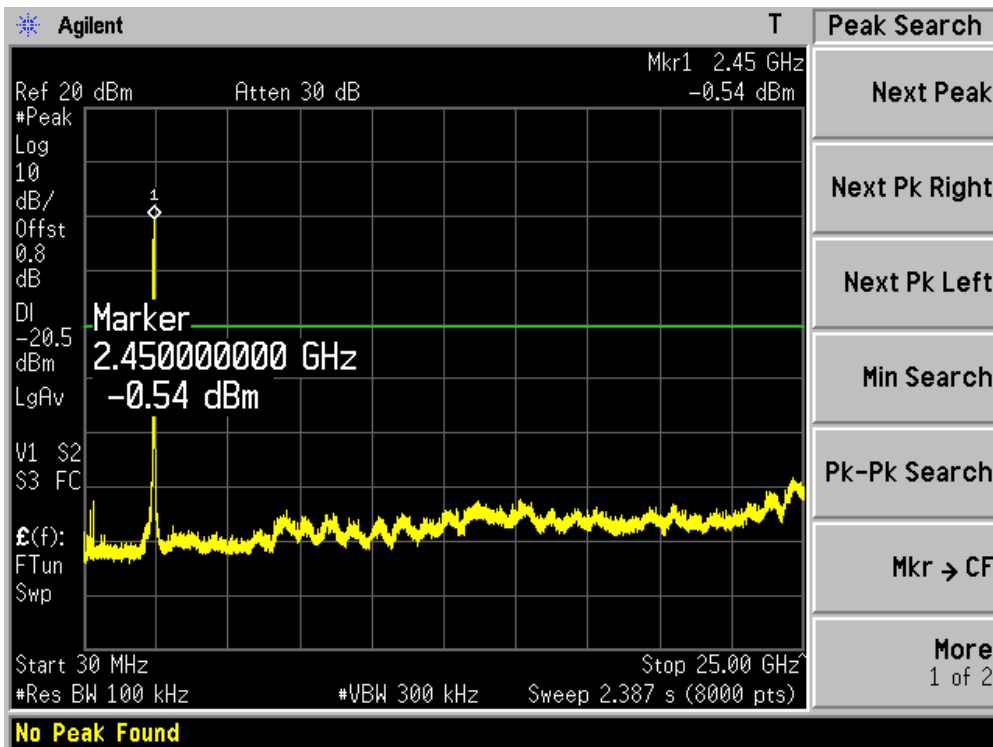
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

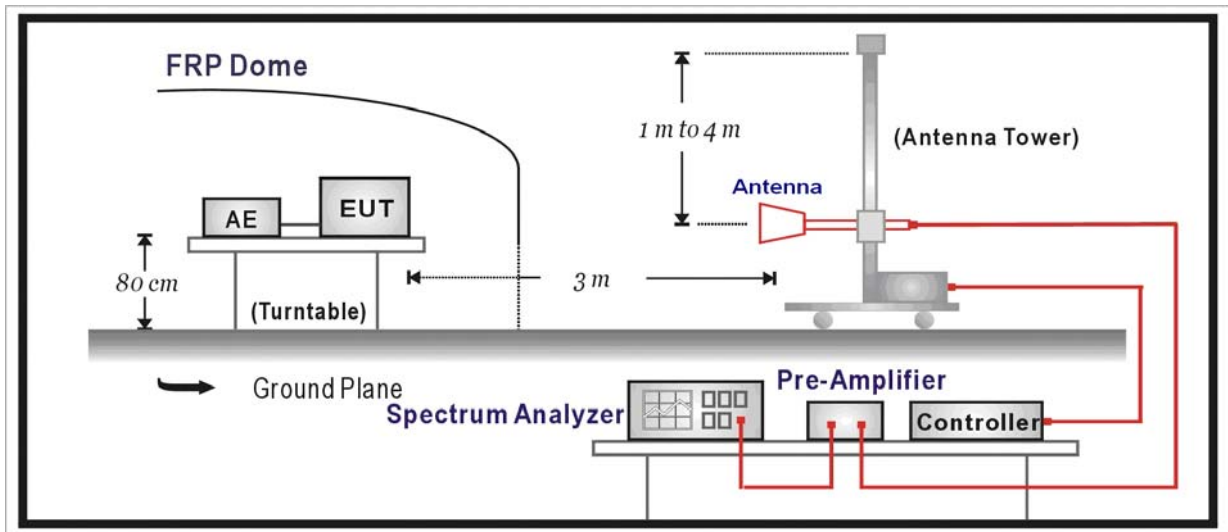
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2009.11.24
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

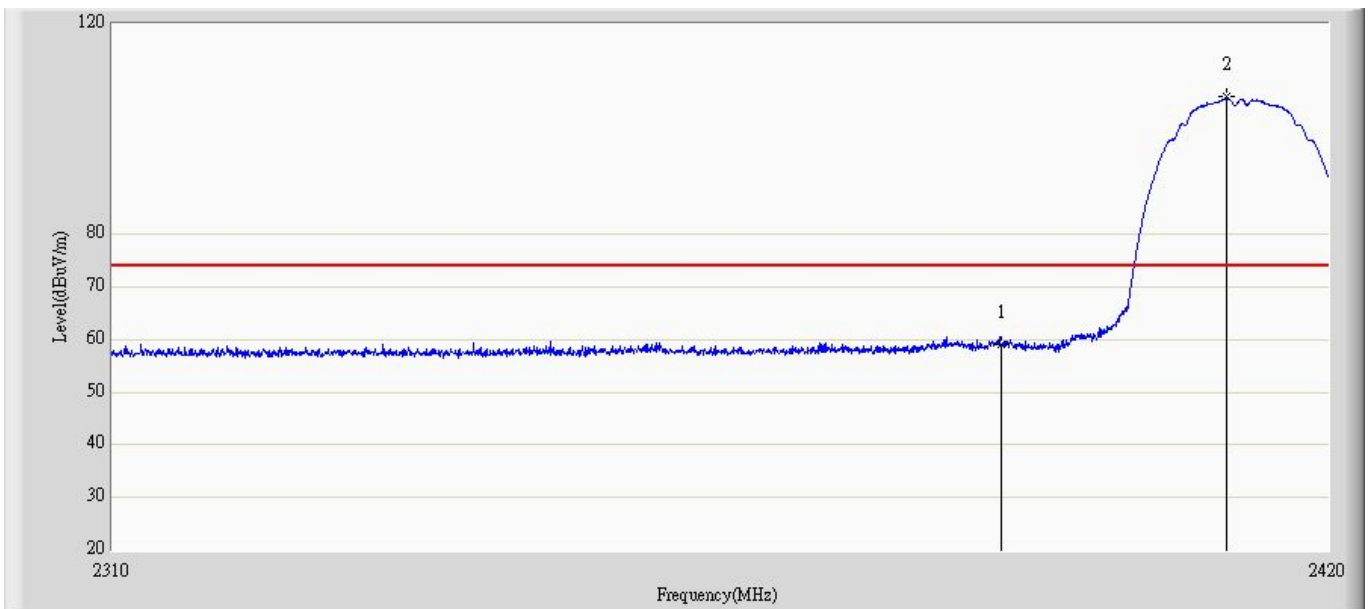
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

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

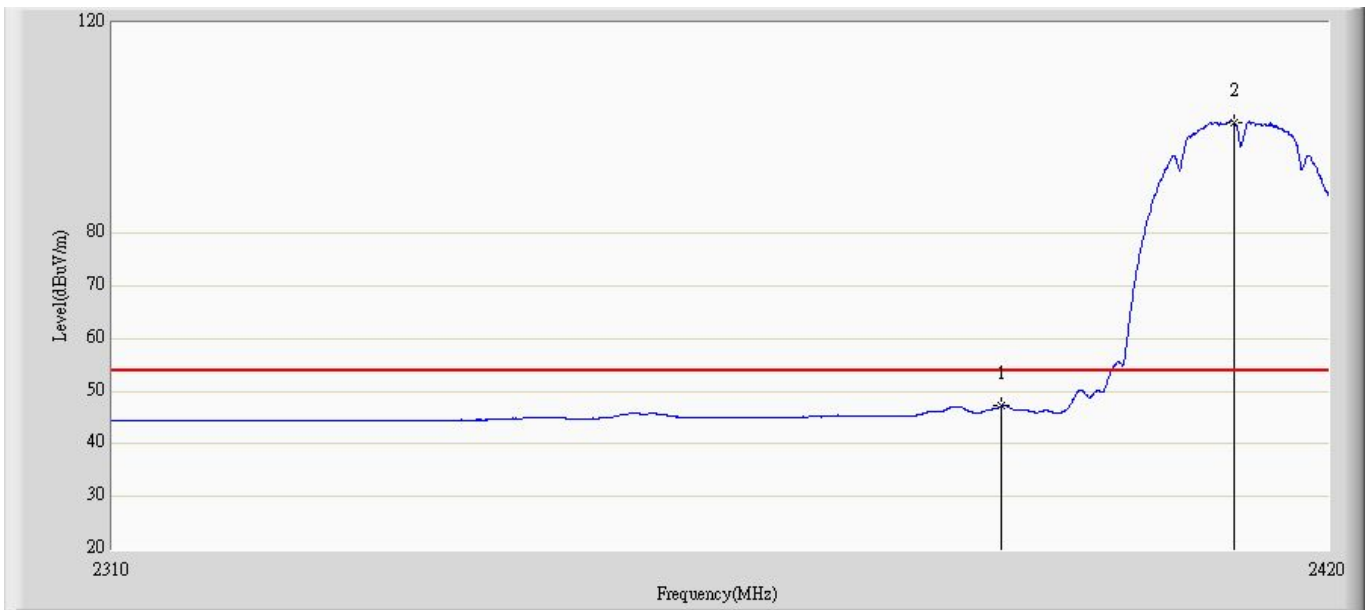
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Profile: 103S080R	Page No.: 33
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



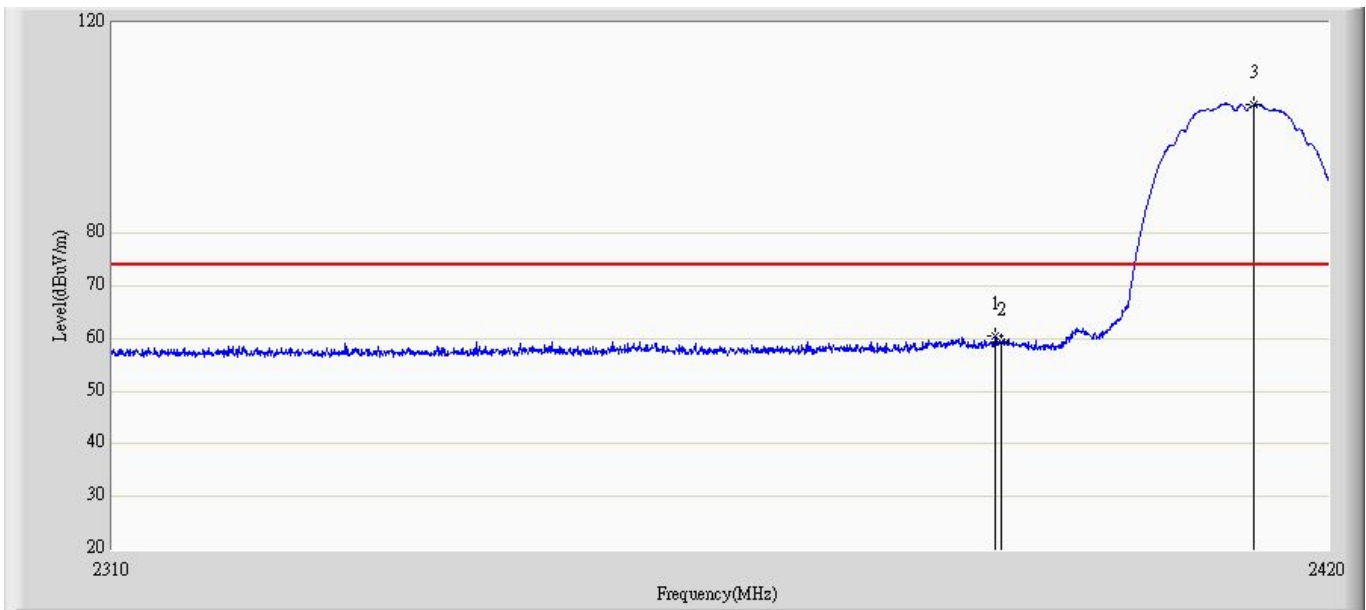
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	59.093	28.549	-14.907	74	30.543	PK
2	X	*	2410.65	106.066	75.497	N/A	N/A	30.569	PK

Profile: 103S080R	Page No.: 34
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



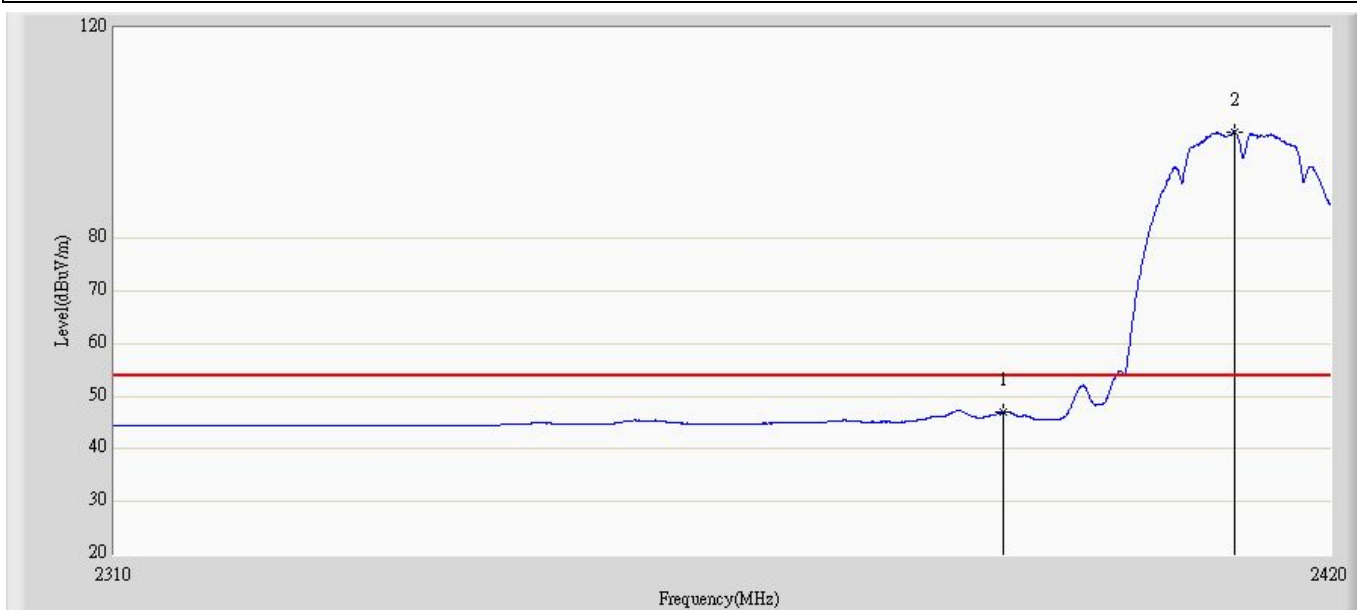
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	47.16	16.616	-6.84	54	30.543	AV
2	X	*	2411.365	101.145	70.572	N/A	N/A	30.573	AV

Profile: 103S080R	Page No.: 35
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



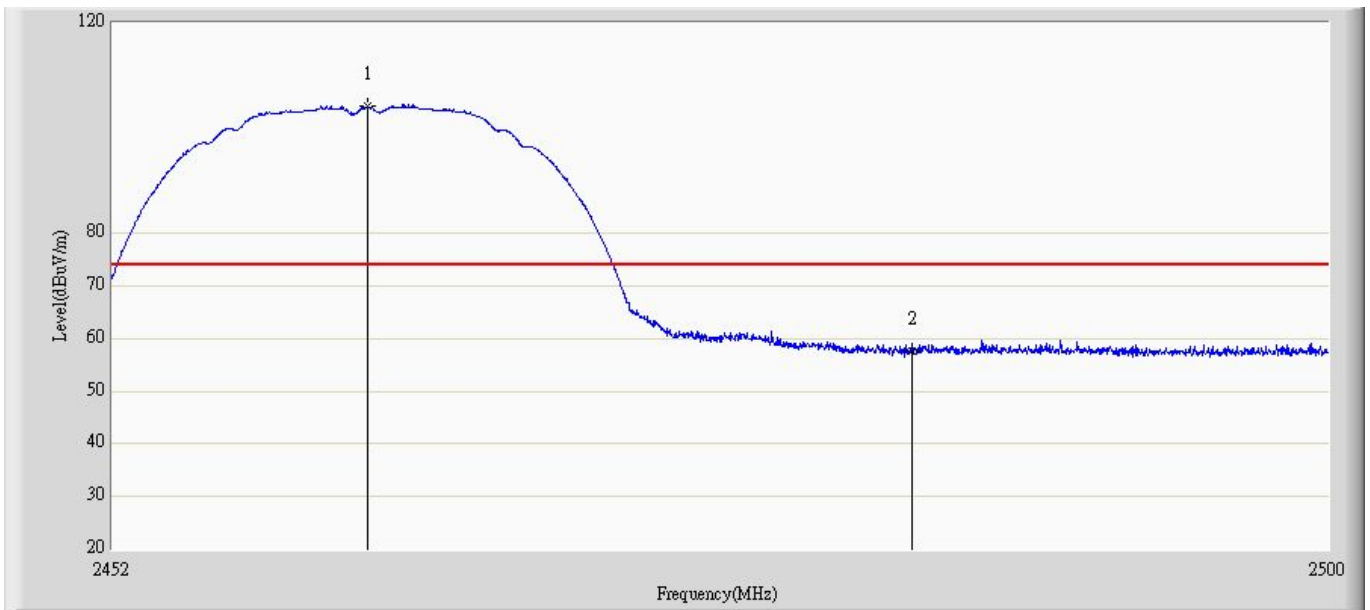
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.42	60.638	30.091	-13.362	74	30.547	PK
2			2390	59.269	28.725	-14.731	74	30.543	PK
3	X	*	2413.18	104.477	73.888	N/A	N/A	30.589	PK

Profile: 103S080R	Page No.: 36
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



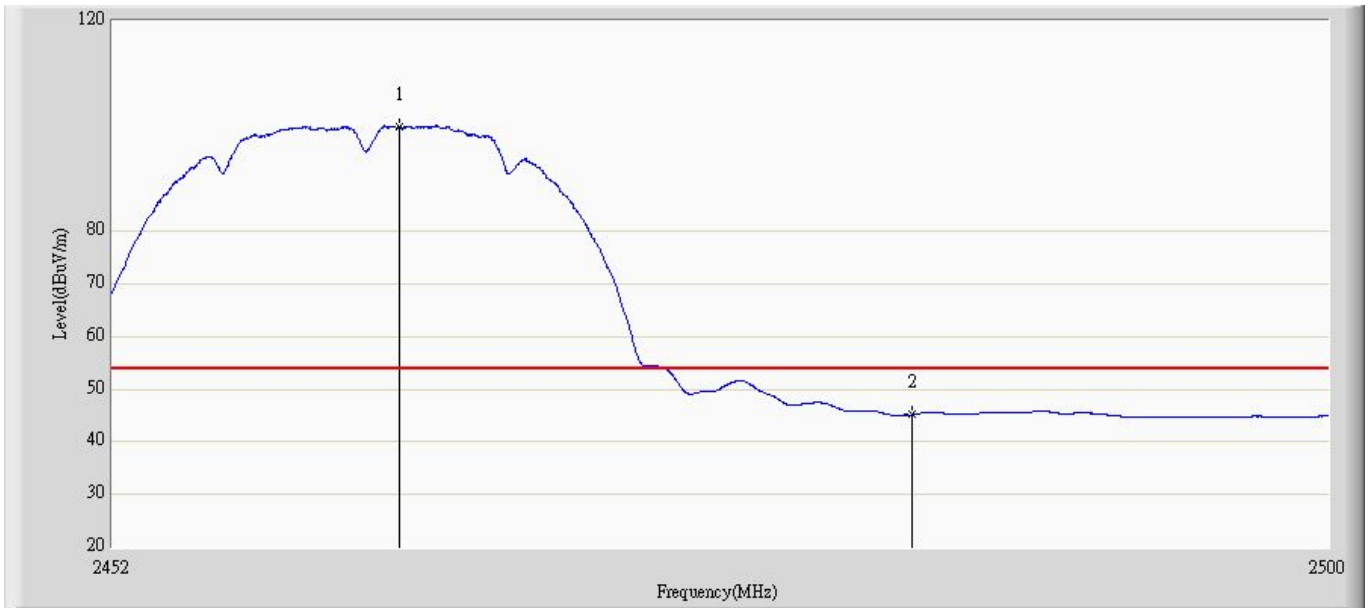
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	47.104	16.56	-6.896	54	30.543	AV
2	X	*	2411.2	100.161	69.589	N/A	N/A	30.572	AV

Profile: 103S080R	Page No.: 37
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



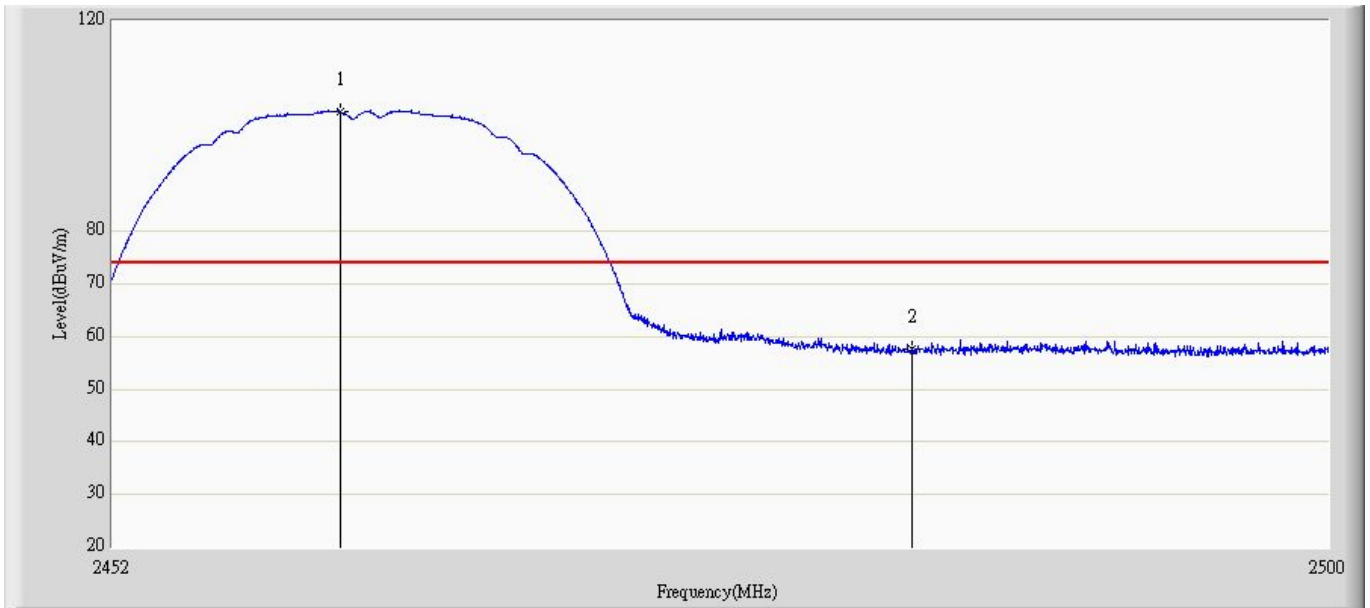
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2462.008	104.147	73.367	30.147	N/A	30.780	PK
2			2483.5	57.72	27.081	N/A	74	30.638	PK

Profile: 103S080R	Page No.: 38
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



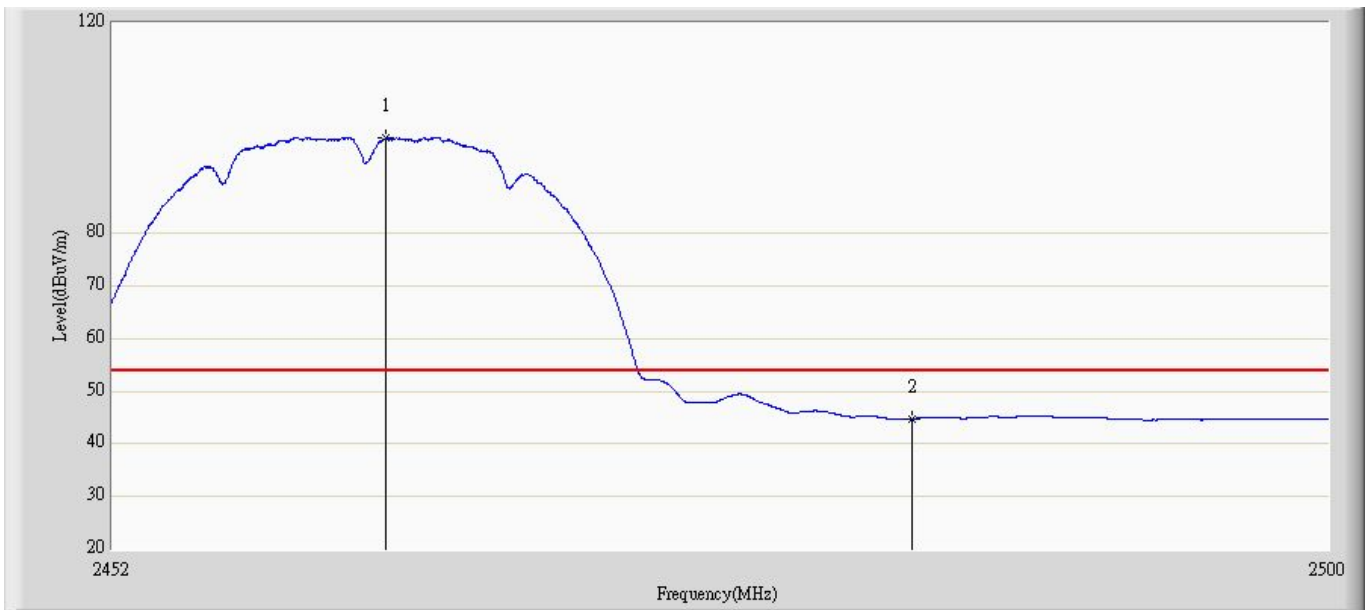
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.28	99.848	69.077	N/A	N/A	30.771	AV
2			2483.5	45.159	14.52	-8.841	54	30.638	AV

Profile: 103S080R	Page No.: 39
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



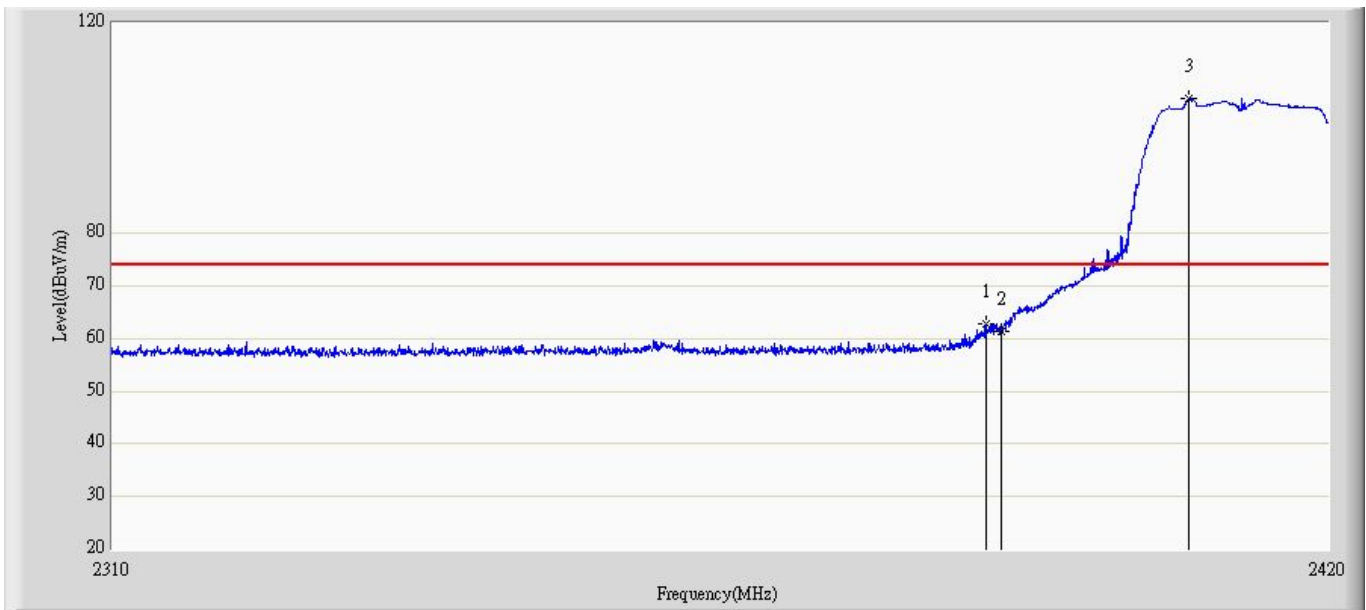
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2460.952	102.795	72.011	N/A	N/A	30.784	PK
2			2483.5	57.548	26.909	-16.452	74	30.638	PK

Profile: 103S080R	Page No.: 40
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



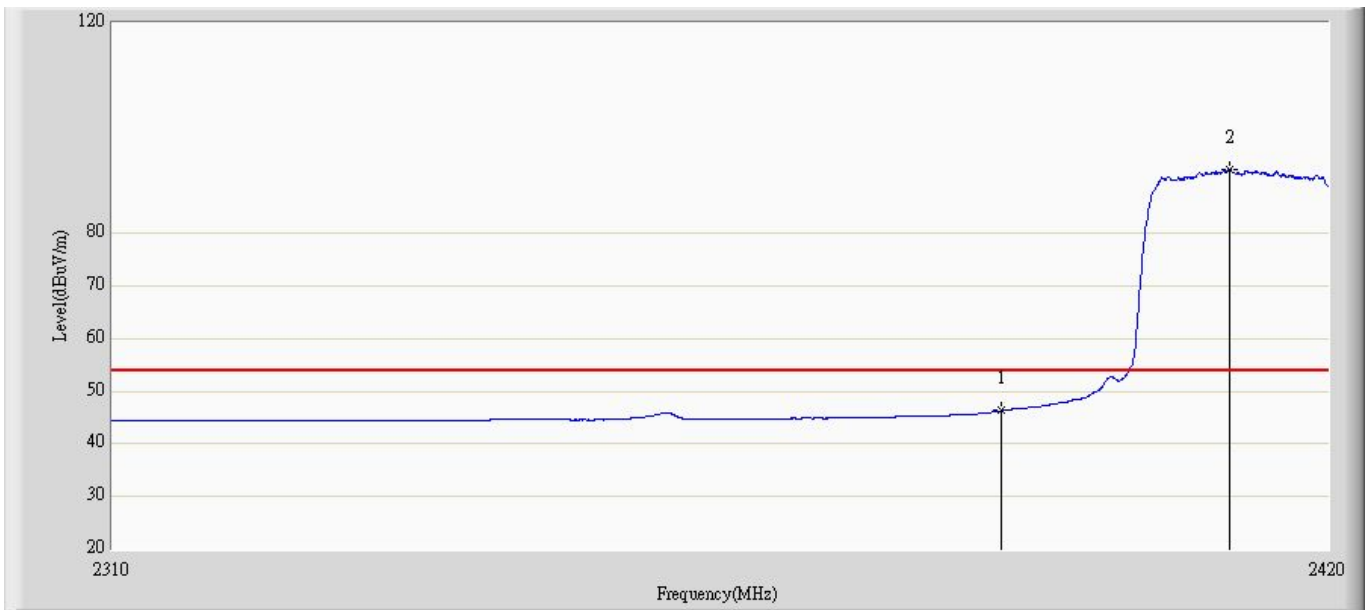
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2462.728	98.113	67.338	N/A	N/A	30.775	AV
2			2483.5	44.789	14.15	-9.211	54	30.638	AV

Profile: 103S080R	Page No.: 41
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



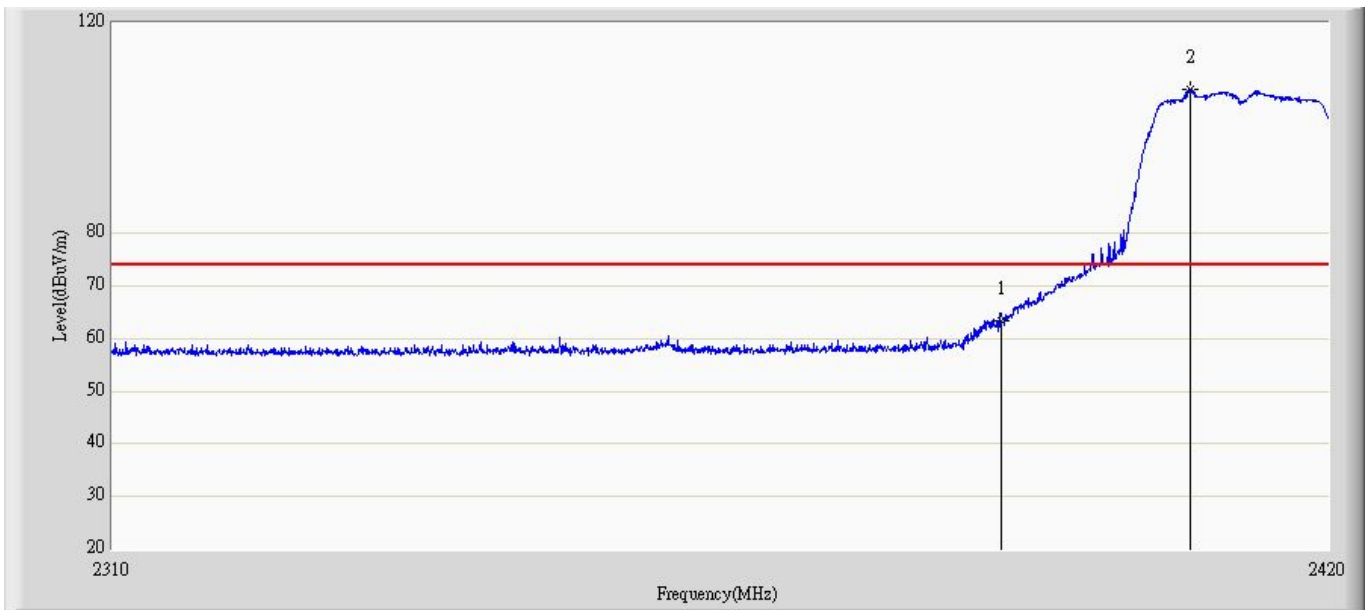
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.54	62.745	32.193	-11.255	74	30.553	PK
2			2390	61.419	30.875	-12.581	74	30.543	PK
3	X	*	2407.13	105.599	75.04	N/A	N/A	30.559	PK

Profile: 103S080R	Page No.: 42
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



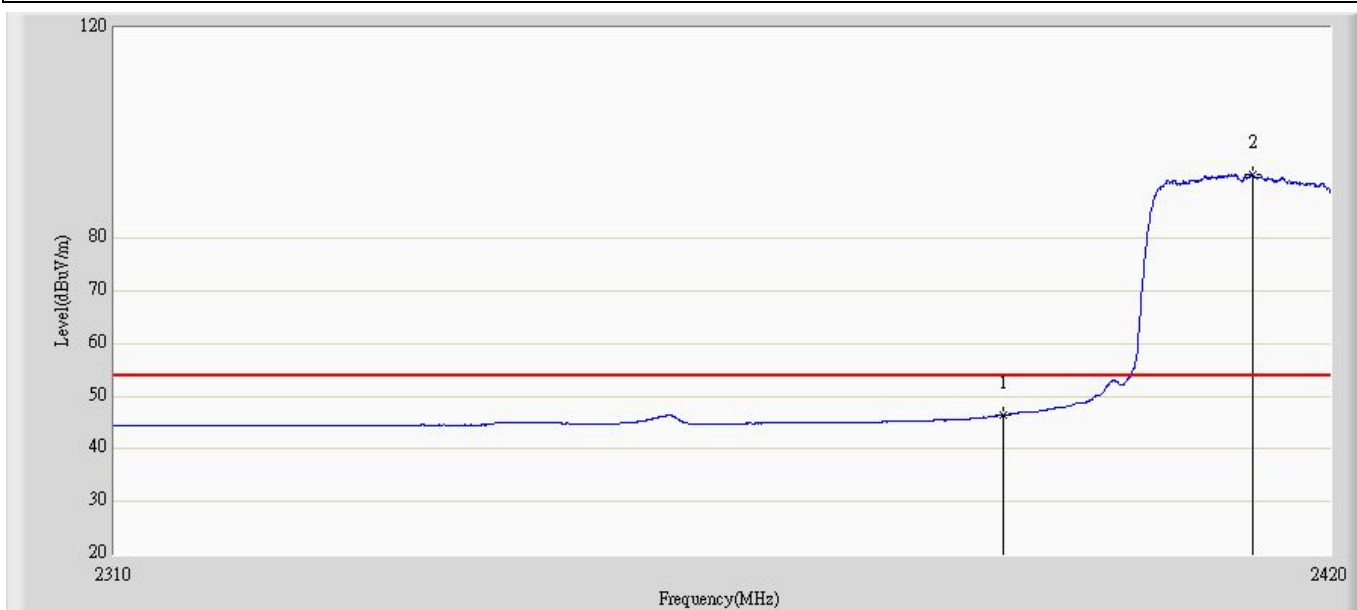
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	46.343	15.799	-7.657	54	30.543	AV
2	X	*	2410.925	92.144	61.574	N/A	N/A	30.570	AV

Profile: 103S080R	Page No.: 43
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



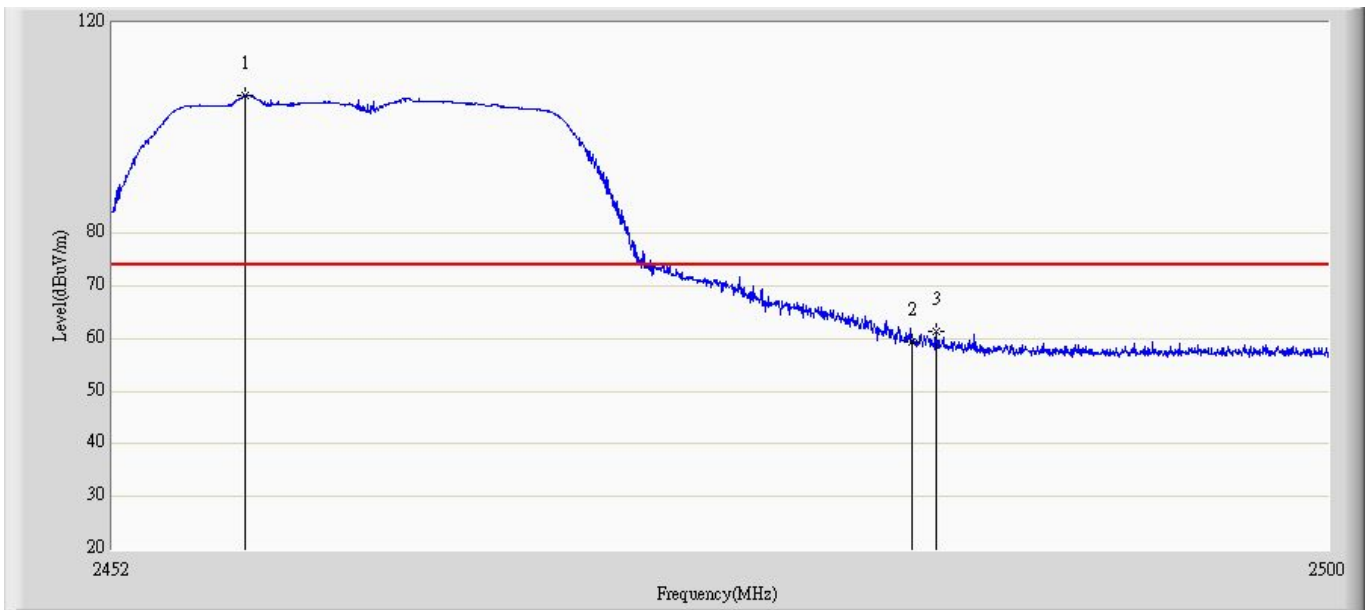
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	63.418	32.874	-10.582	74	30.543	PK
2	X	*	2407.295	107.497	76.938	N/A	N/A	30.559	PK

Profile: 103S080R	Page No.: 44
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



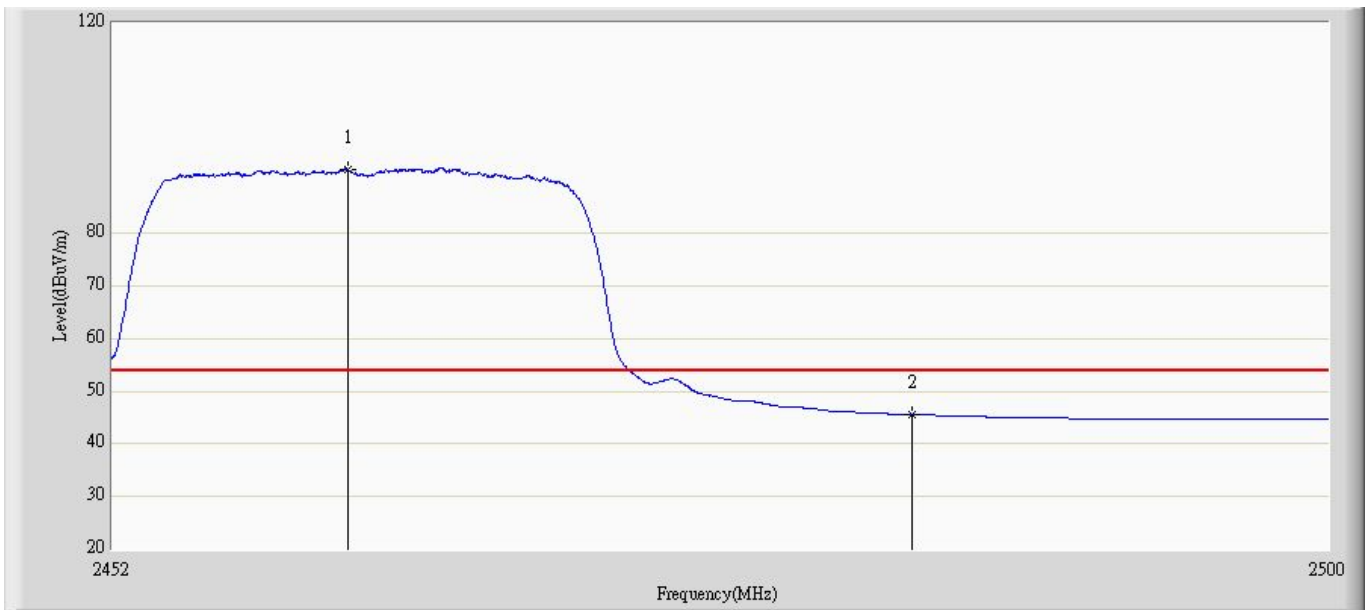
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	46.458	15.914	-7.542	54	30.543	AV
2	X	*	2412.905	92.094	61.507	N/A	N/A	30.587	AV

Profile: 103S080R	Page No.: 45
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 15:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



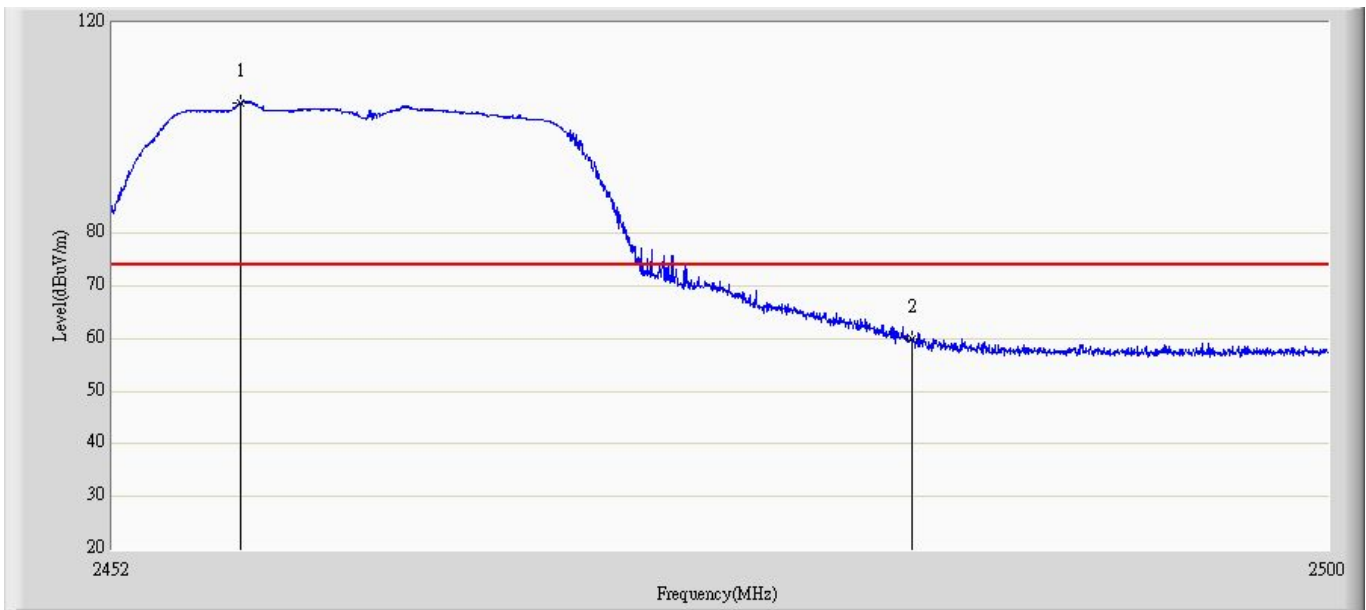
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2457.184	106.13	75.33	N/A	N/A	30.800	PK
2			2483.5	59.485	28.846	-14.515	74	30.638	PK
3			2484.424	61.468	30.834	-12.532	74	30.635	PK

Profile: 103S080R	Page No.: 46
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



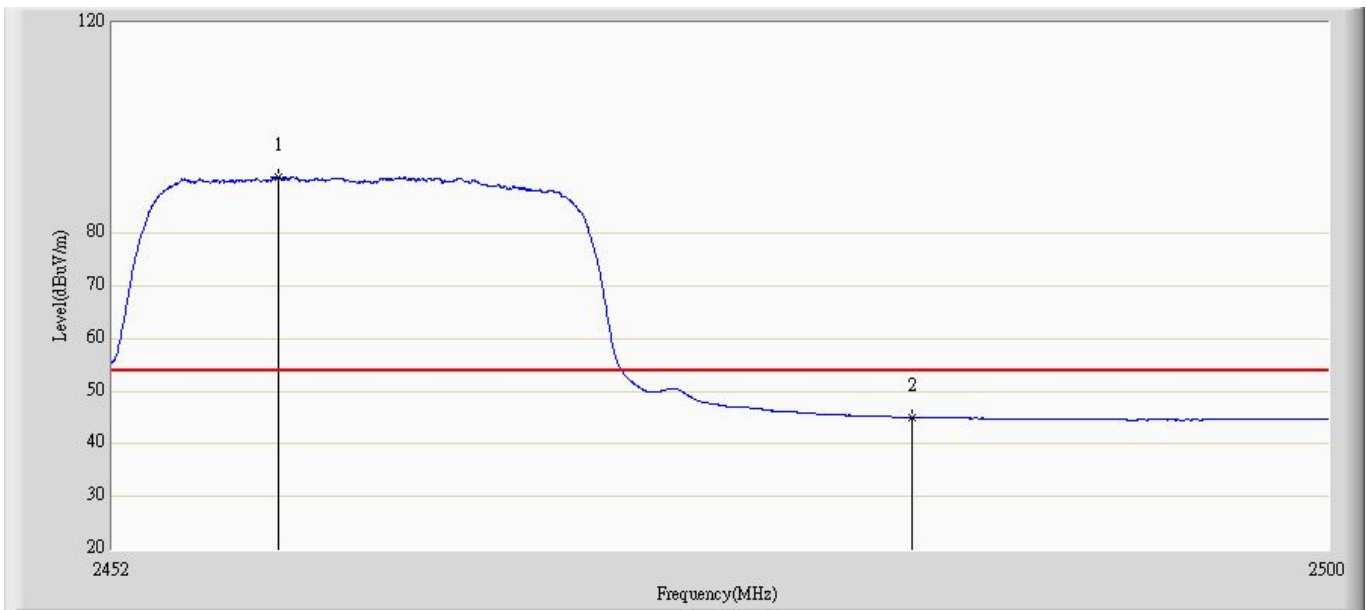
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2461.264	92.116	61.333	N/A	N/A	30.783	AV
2			2483.5	45.605	14.966	-8.395	54	30.638	AV

Profile: 103S080R	Page No.: 47
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



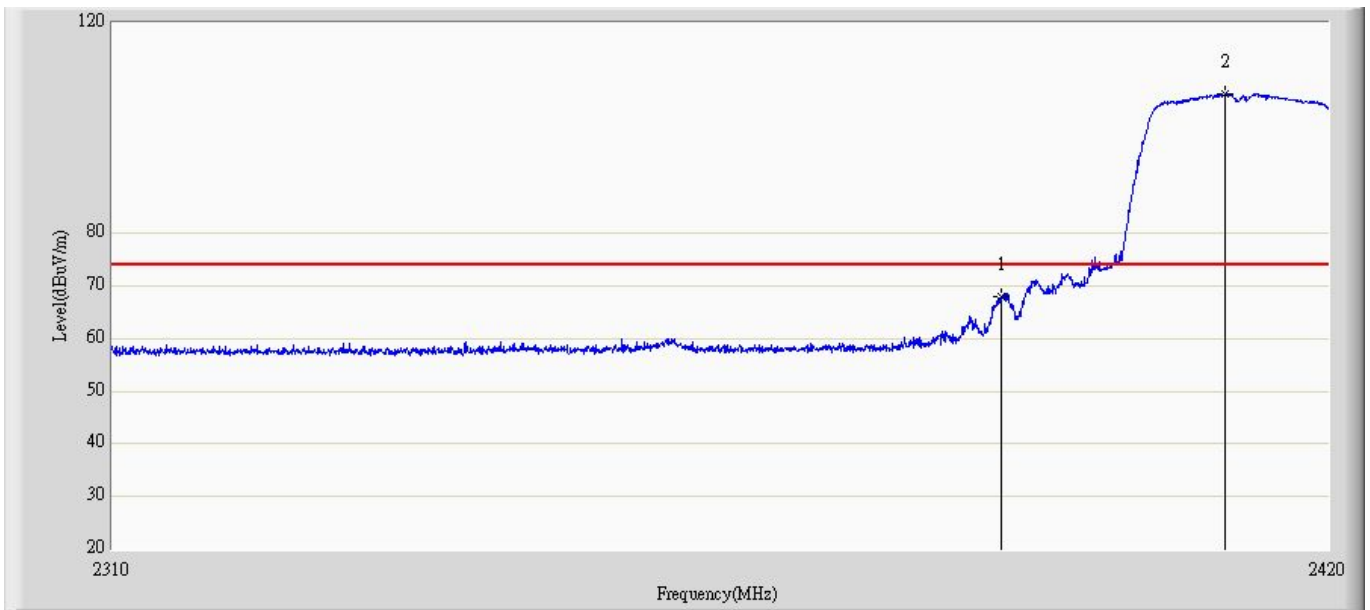
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2457.04	104.862	74.062	N/A	N/A	30.800	PK
2			2483.5	59.854	29.215	-14.146	74	30.638	PK

Profile: 103S080R	Page No.: 48
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(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	X	*	2458.504	90.802	60.008	N/A	N/A	30.794	AV
2			2483.5	45.108	14.469	-8.892	54	30.638	AV

Profile: 103S080R	Page No.: 49
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



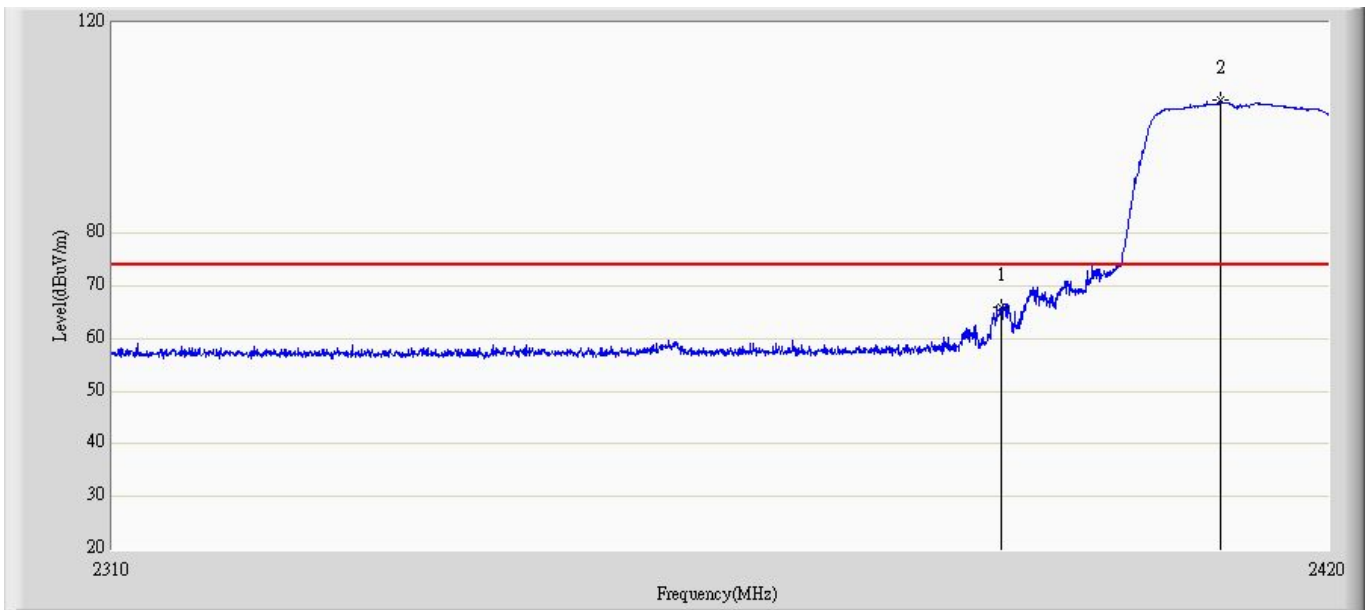
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	67.957	37.413	-6.043	74	30.543	PK
2	X	*	2410.43	106.529	75.961	N/A	N/A	30.568	PK

Profile: 103S080R	Page No.: 50
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(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	46.608	16.064	-7.392	54	30.543	AV
2	X	*	2409.825	91.798	61.231	N/A	N/A	30.567	AV

Profile: 103S080R	Page No.: 51
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



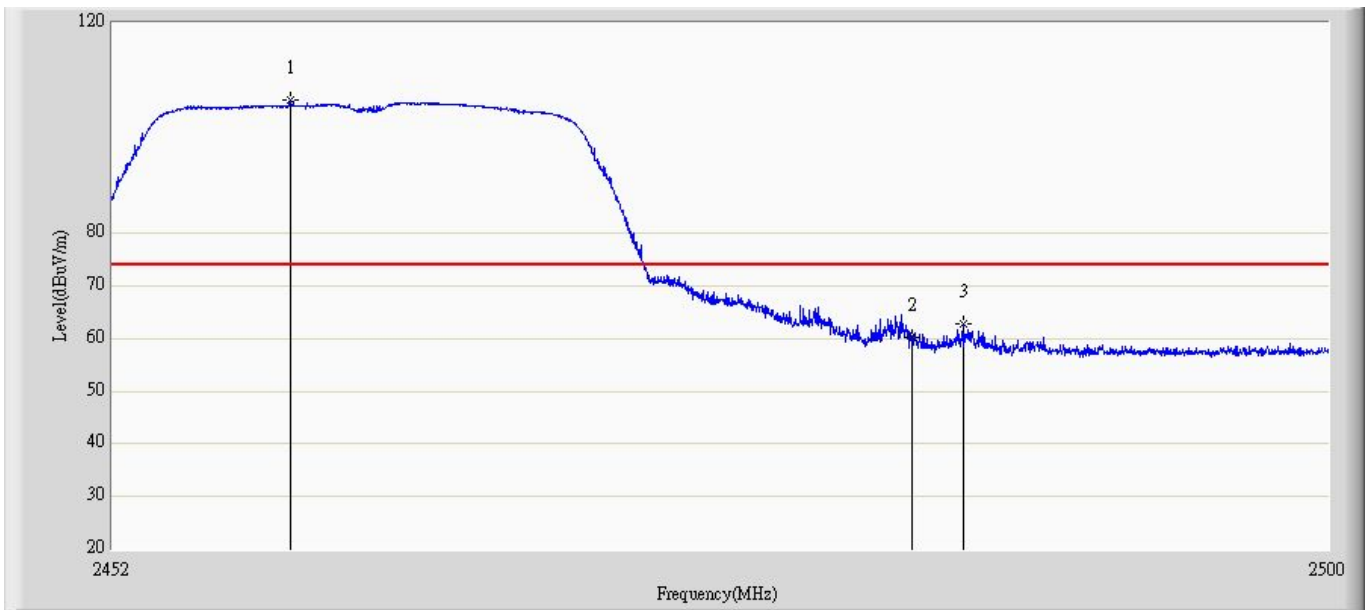
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	65.955	35.411	-8.045	74	30.543	PK
2	X	*	2410.045	105.245	74.678	N/A	N/A	30.567	PK

Profile: 103S080R	Page No.: 52
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



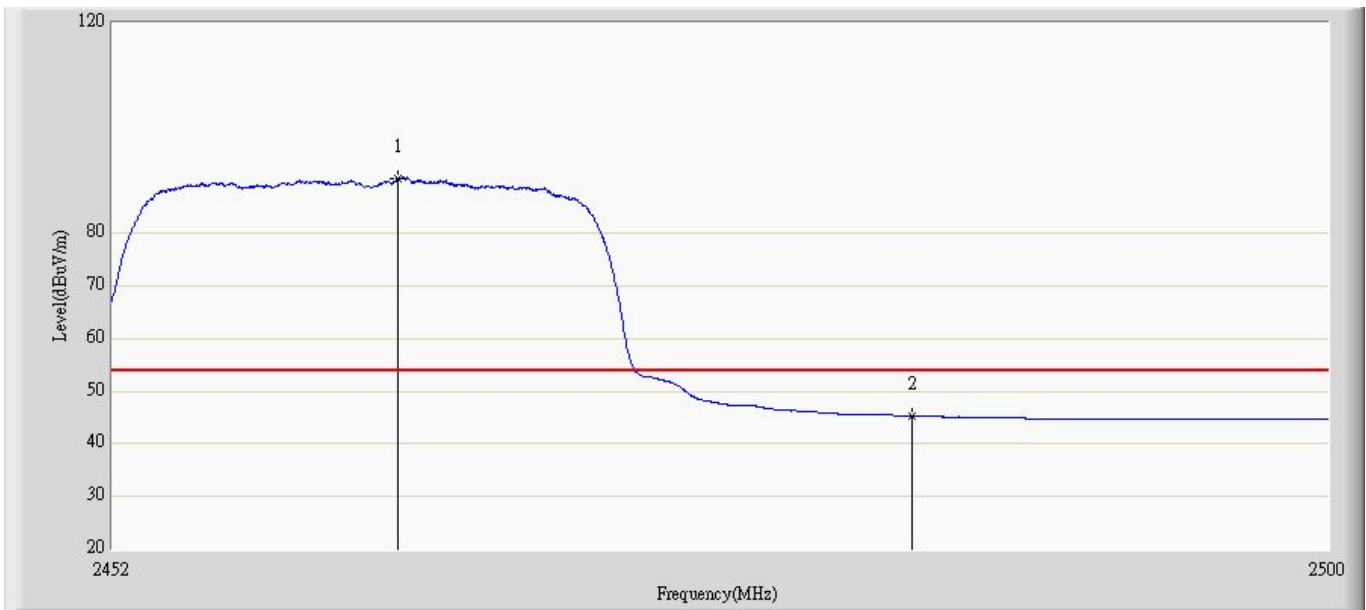
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	46.321	15.777	-7.679	54	30.543	AV
2	X	*	2410.375	91.778	61.21	N/A	N/A	30.568	AV

Profile: 103S080R	Page No.: 53
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



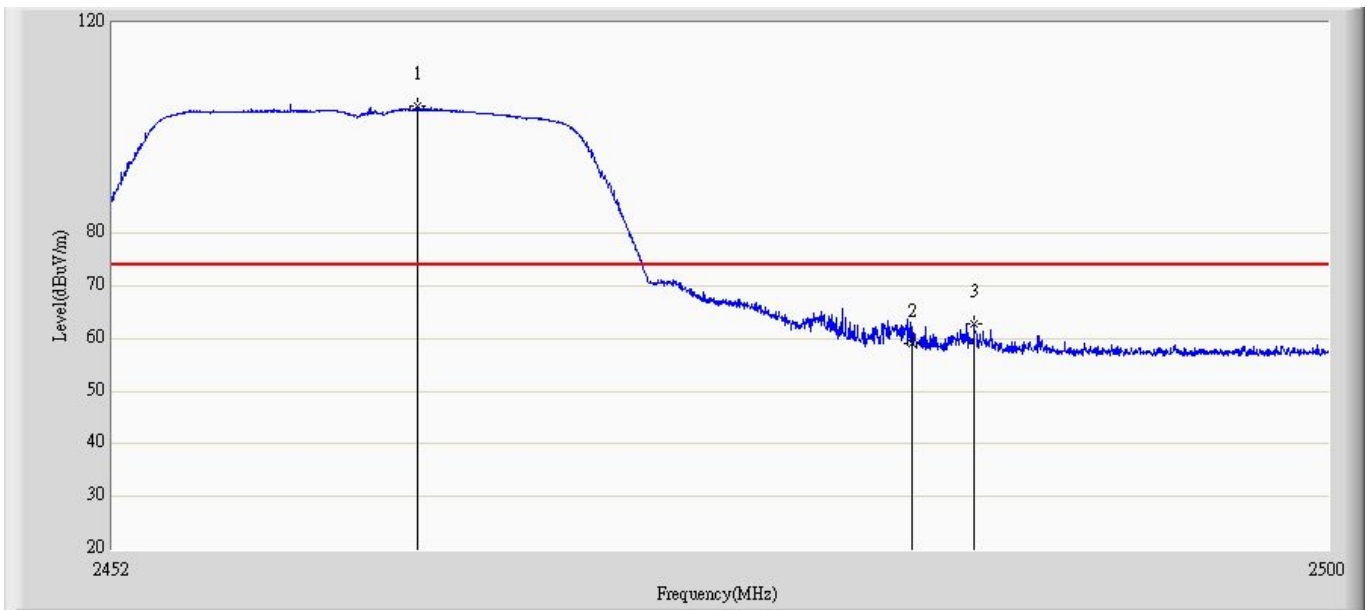
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2458.984	105.295	74.503	N/A	N/A	30.792	PK
2			2483.5	60.247	29.608	-13.753	74	30.638	PK
3			2485.504	62.907	32.278	-11.093	74	30.629	PK

Profile: 103S080R	Page No.: 54
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



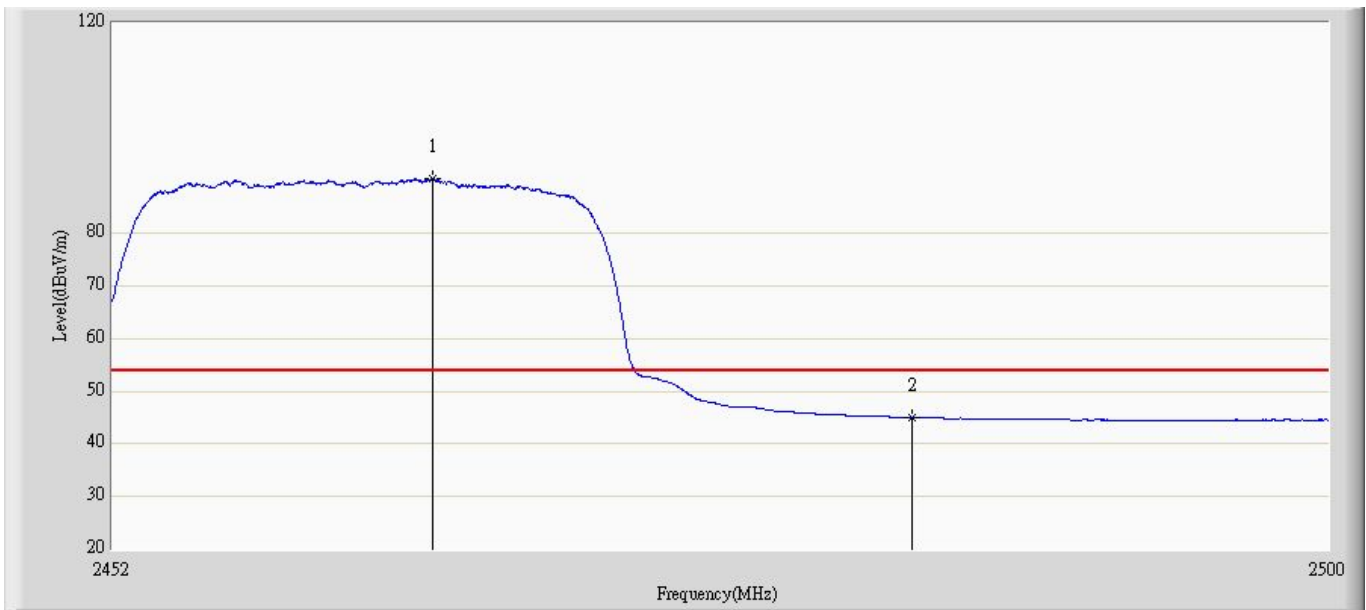
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.184	90.41	59.638	N/A	N/A	30.772	AV
2			2483.5	45.297	14.658	-8.703	54	30.638	AV

Profile: 103S080R	Page No.: 55
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



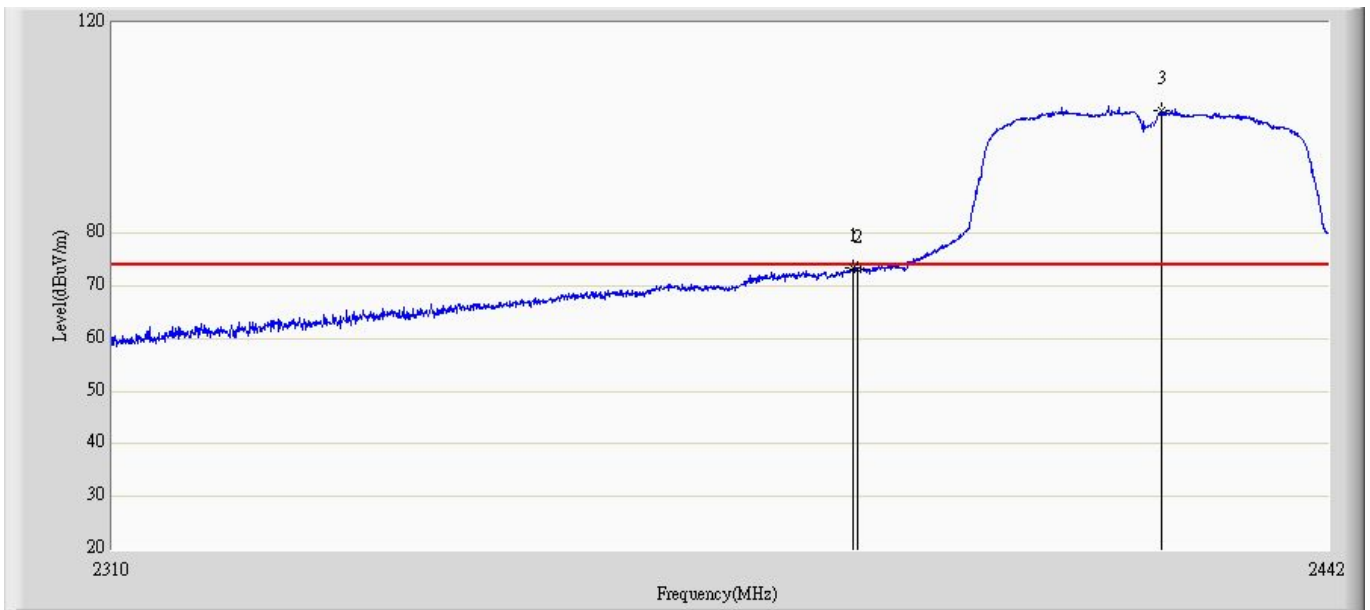
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.952	104.251	73.485	N/A	N/A	30.766	PK
2			2483.5	59.144	28.505	-14.856	74	30.638	PK
3			2485.936	62.678	32.051	-11.322	74	30.627	PK

Profile: 103S080R	Page No.: 56
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



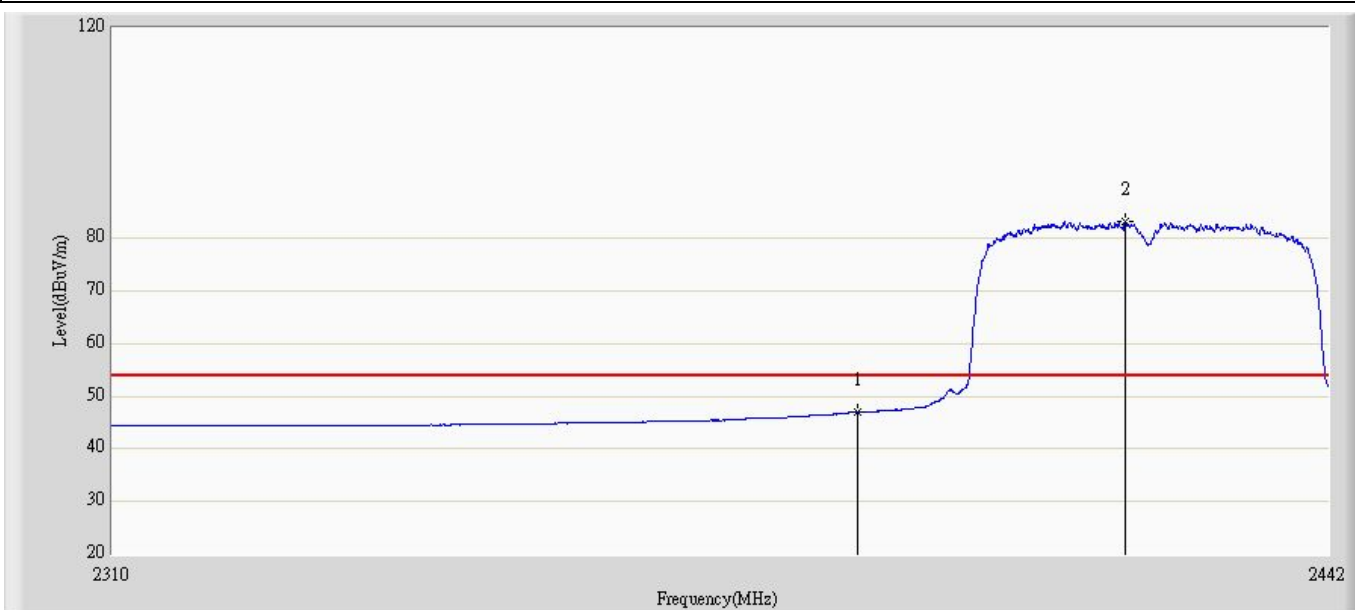
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2464.576	90.429	59.667	N/A	N/A	30.762	AV
2			2483.5	45.039	14.4	-8.961	54	30.638	AV

Profile: 103S080R	Page No.: 57
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



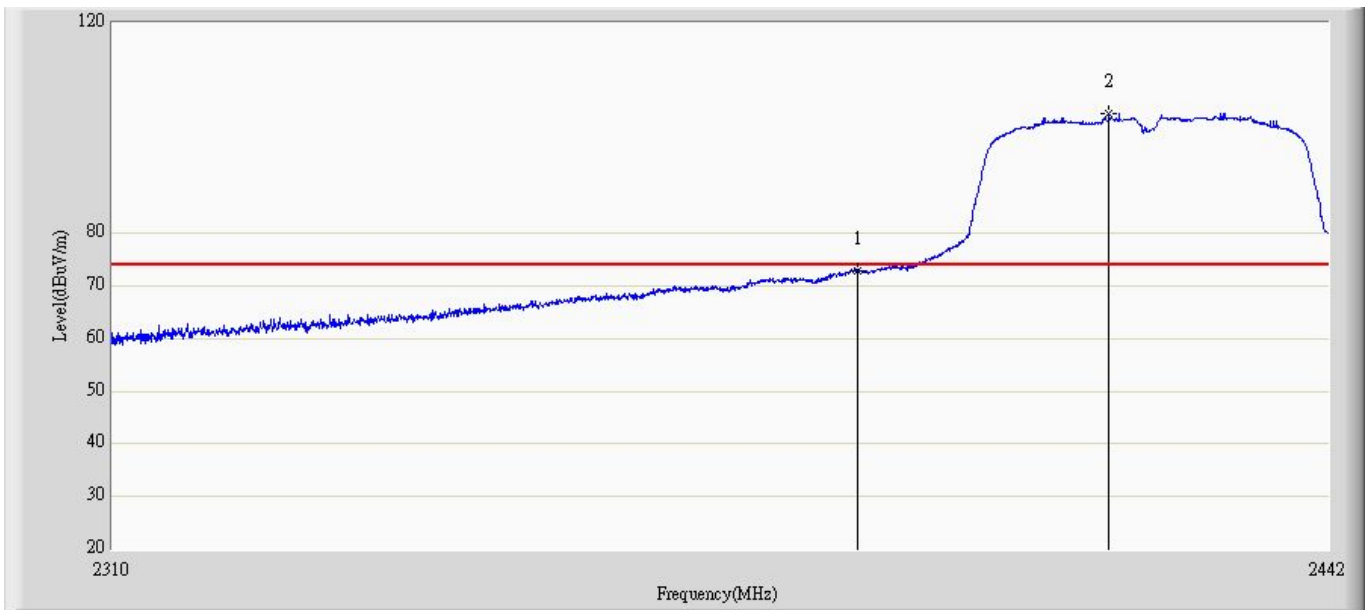
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.53	73.379	42.833	-0.621	74	30.547	PK
2			2390	73.193	42.649	-0.807	74	30.543	PK
3	X	*	2423.586	103.47	72.789	N/A	N/A	30.681	PK

Profile: 103S080R	Page No.: 58
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



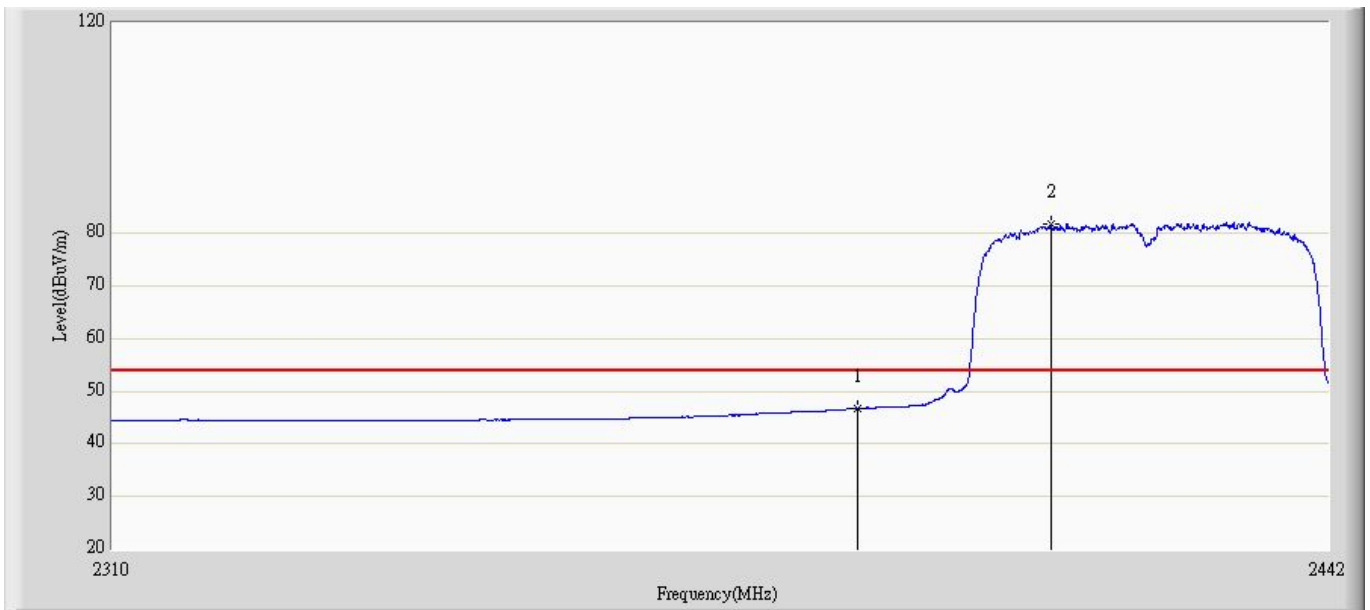
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	46.951	16.407	-7.049	54	30.543	AV
2	X	*	2419.494	83.126	52.481	N/A	N/A	30.645	AV

Profile: 103S080R	Page No.: 59
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



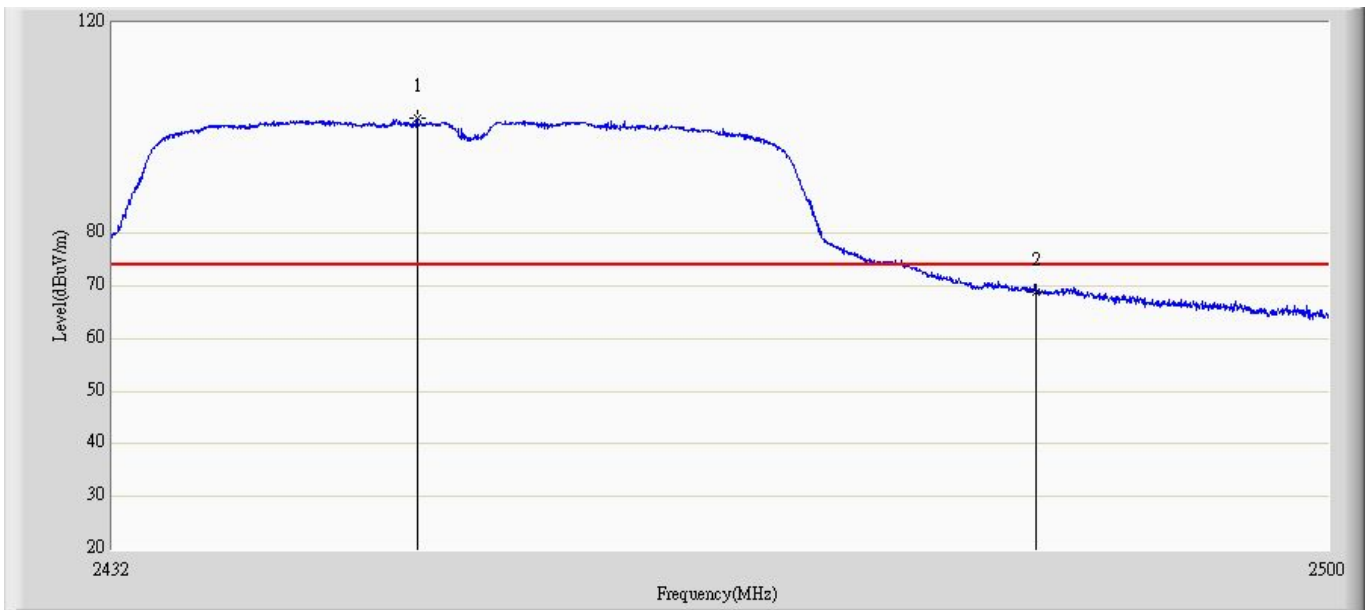
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	72.794	42.25	-1.206	74	30.543	PK
2	X	*	2417.646	102.621	71.992	N/A	N/A	30.629	PK

Profile: 103S080R	Page No.: 60
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



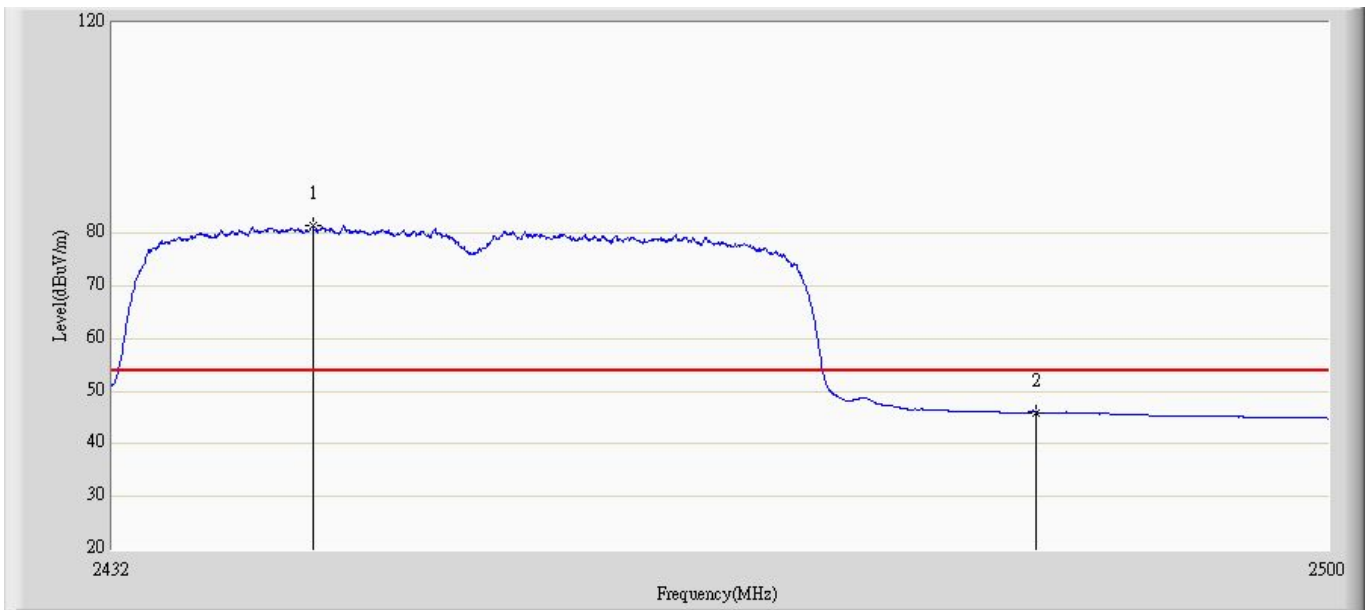
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	46.721	16.177	-7.279	54	30.543	AV
2	X	*	2411.31	81.707	51.134	N/A	N/A	30.573	AV

Profile: 103S080R	Page No.: 61
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(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	X	*	2448.898	101.827	70.993	N/A	N/A	30.834	PK
2			2483.5	68.857	38.218	-5.143	74	30.638	PK

Profile: 103S080R	Page No.: 62
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



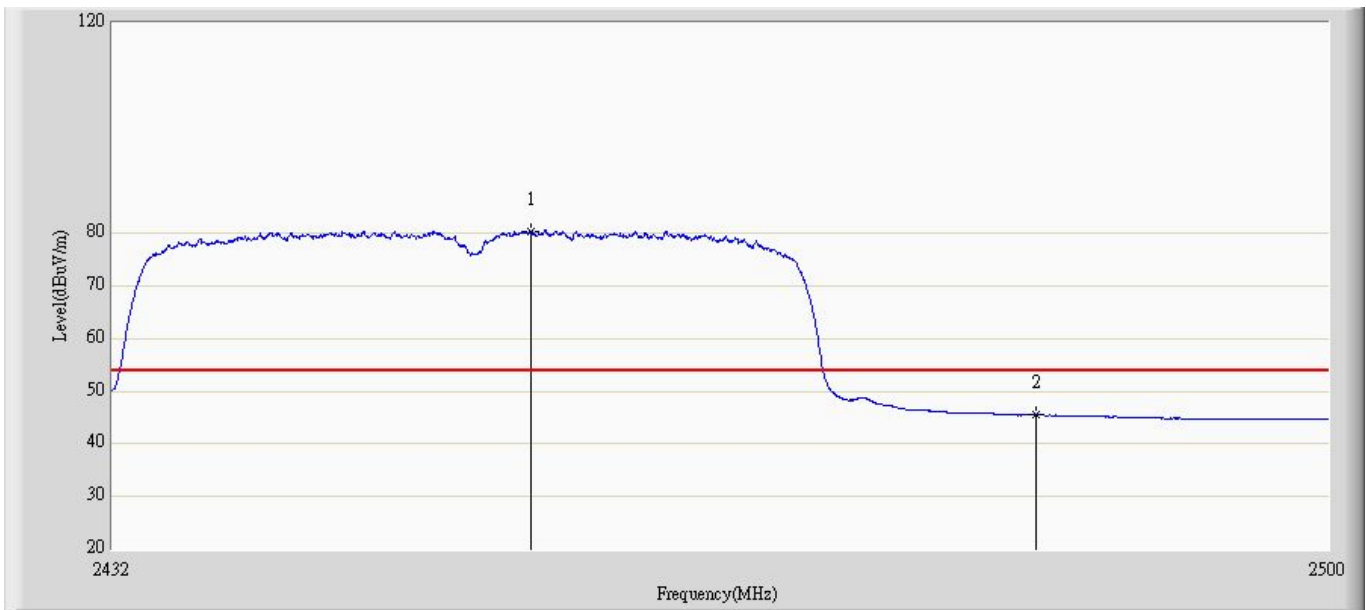
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2443.084	81.417	50.582	N/A	N/A	30.835	AV
2			2483.5	45.997	15.358	-8.003	54	30.638	AV

Profile: 103S080R	Page No.: 63
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(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	X	*	2449.102	101.817	70.984	N/A	N/A	30.833	PK
2			2483.5	69.022	38.383	-4.978	74	30.638	PK

Profile: 103S080R	Page No.: 64
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 16:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(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	X	*	2455.188	80.389	49.581	N/A	N/A	30.808	AV
2			2483.5	45.451	14.812	-8.549	54	30.638	AV

7. Operation Frequency Range of 20dB Bandwidth

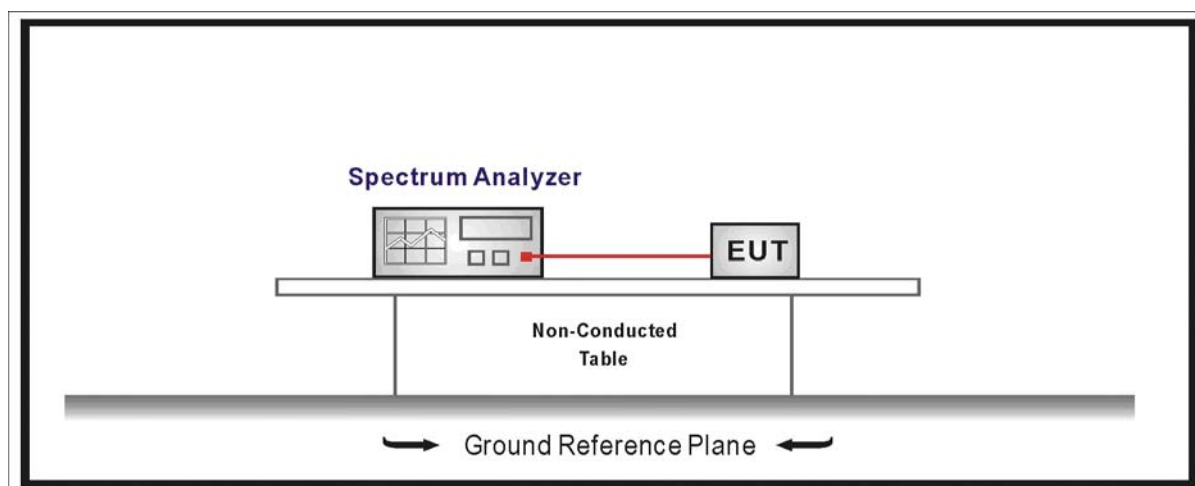
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
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.

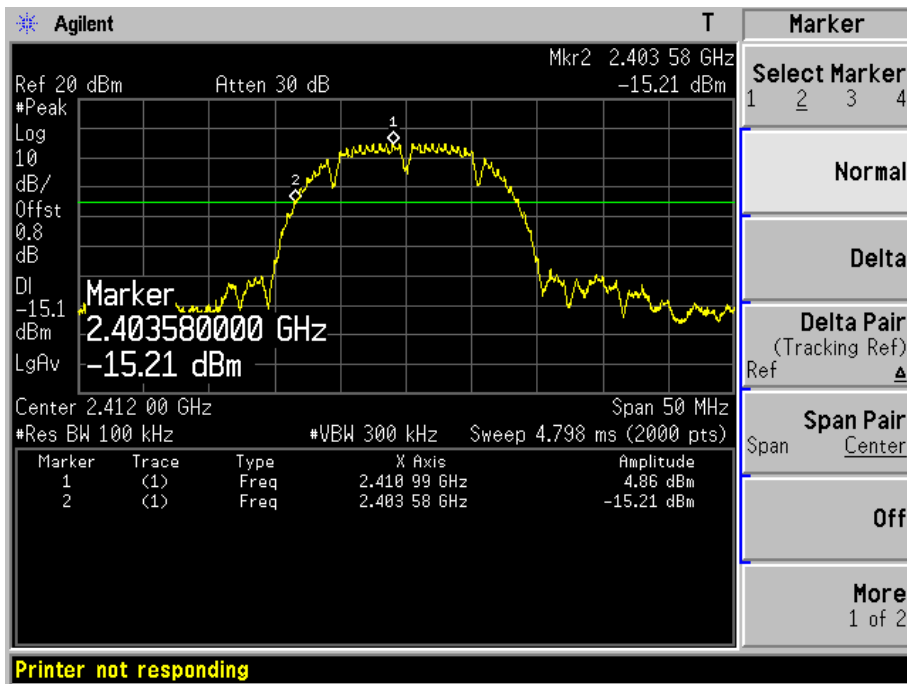
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

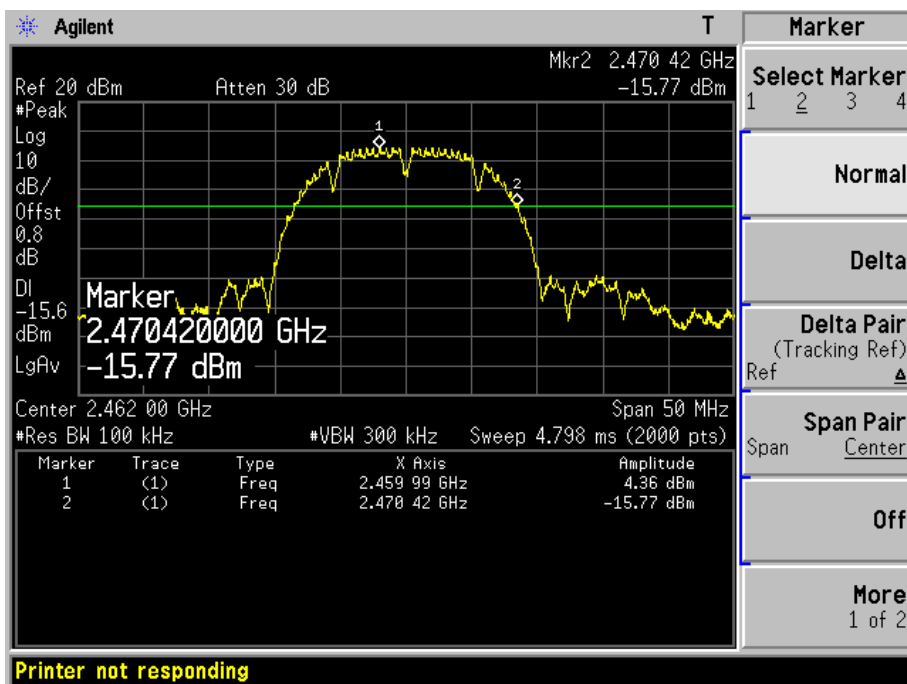
7.6. Test Result

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

Channel 01 (2412MHz)

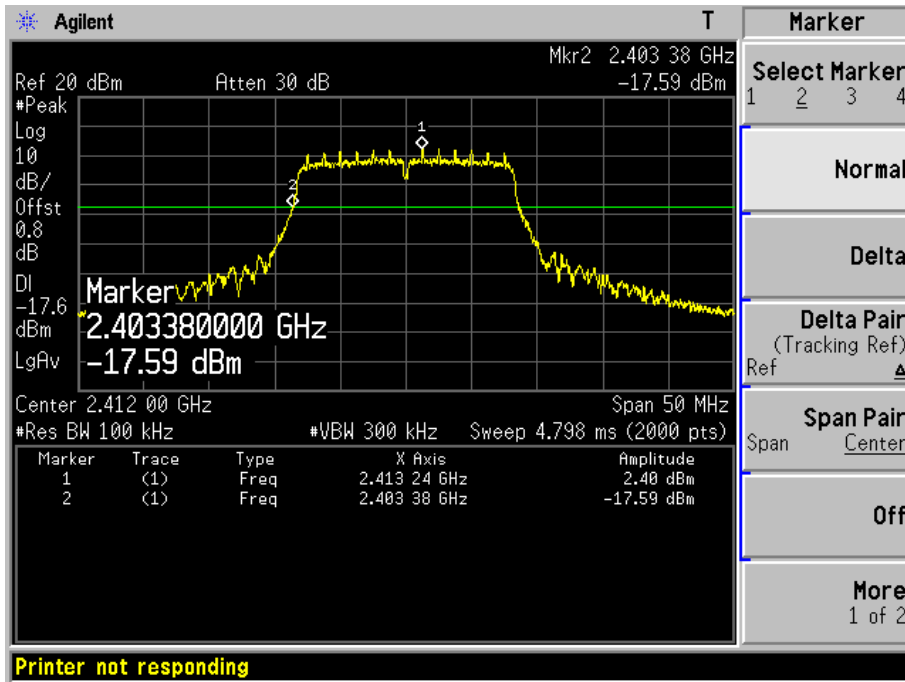


Channel 11 (2462MHz)

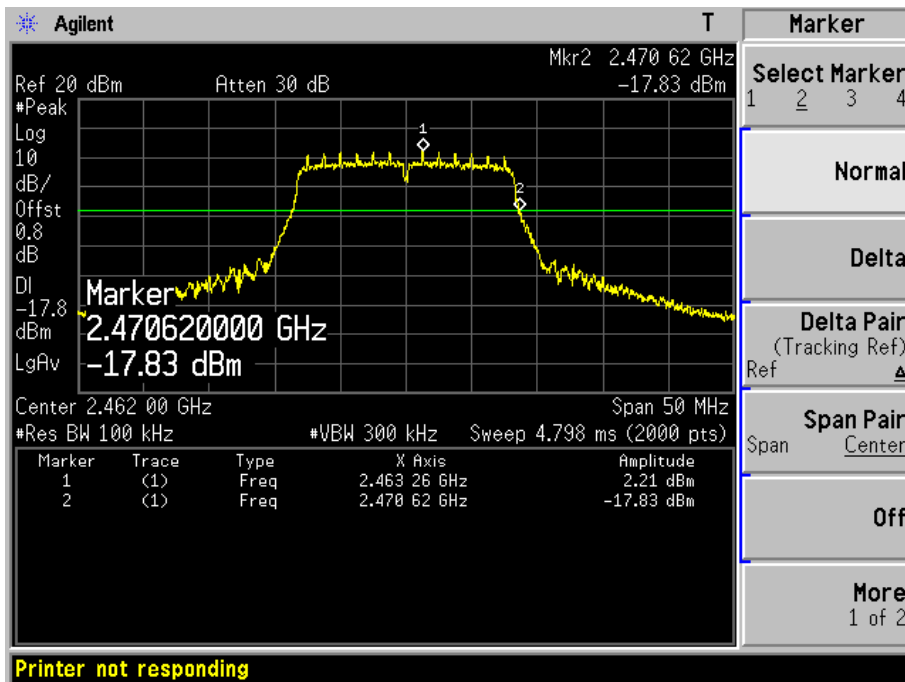


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

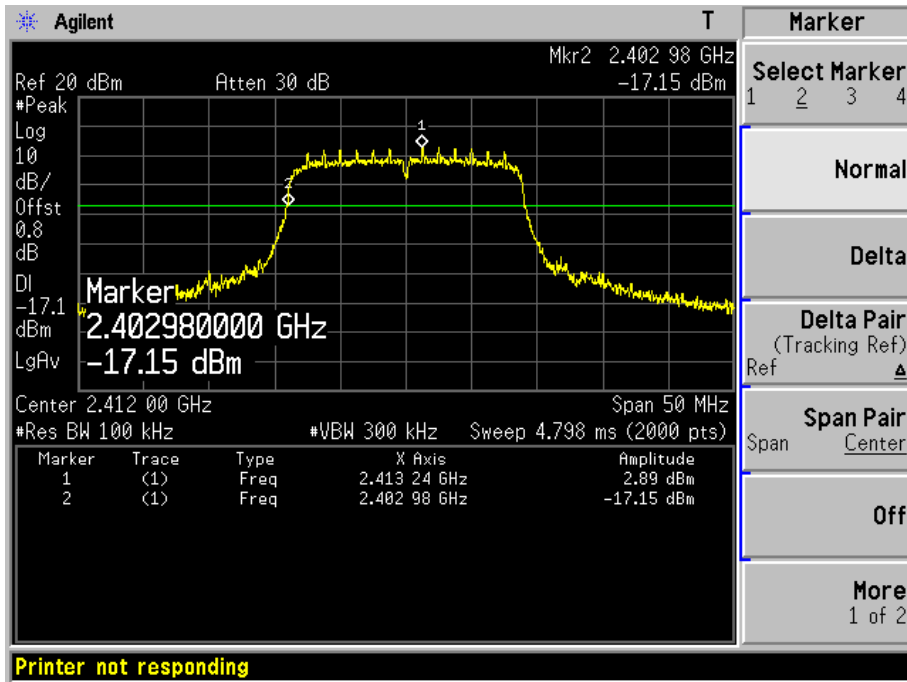


Channel 11 (2462MHz)

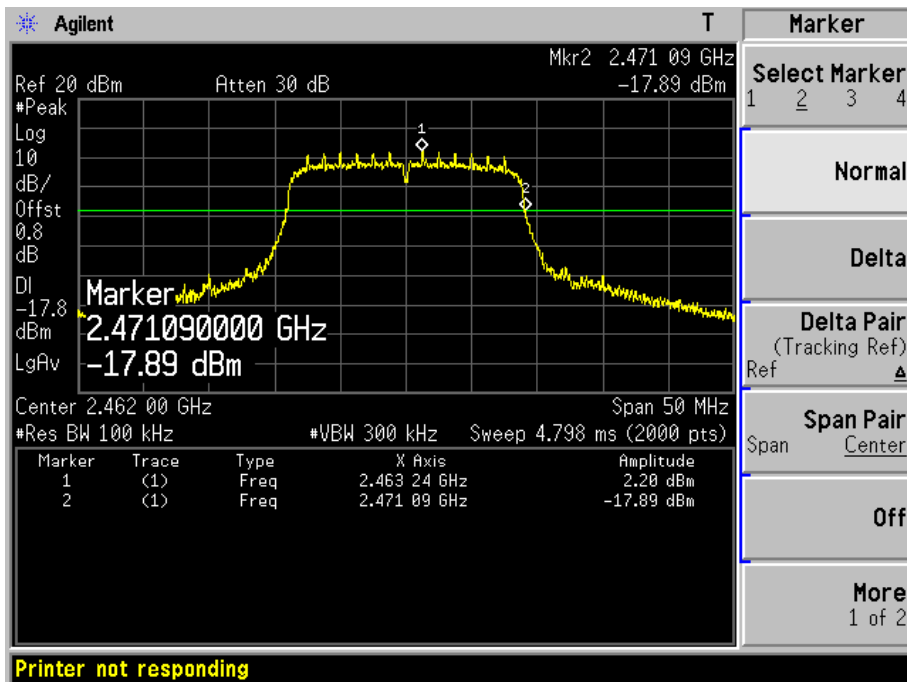


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

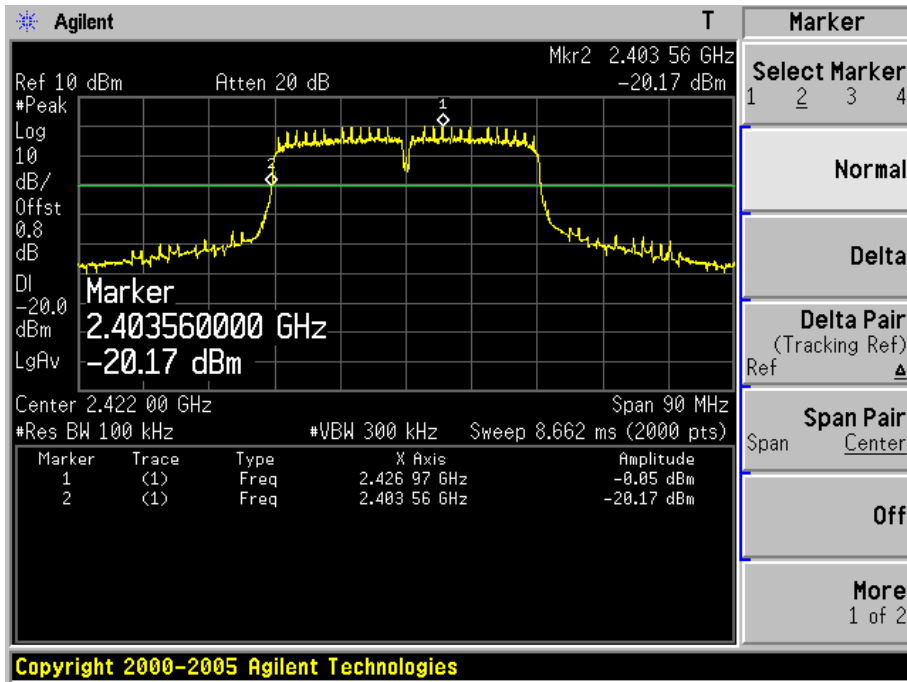


Channel 11 (2462MHz)

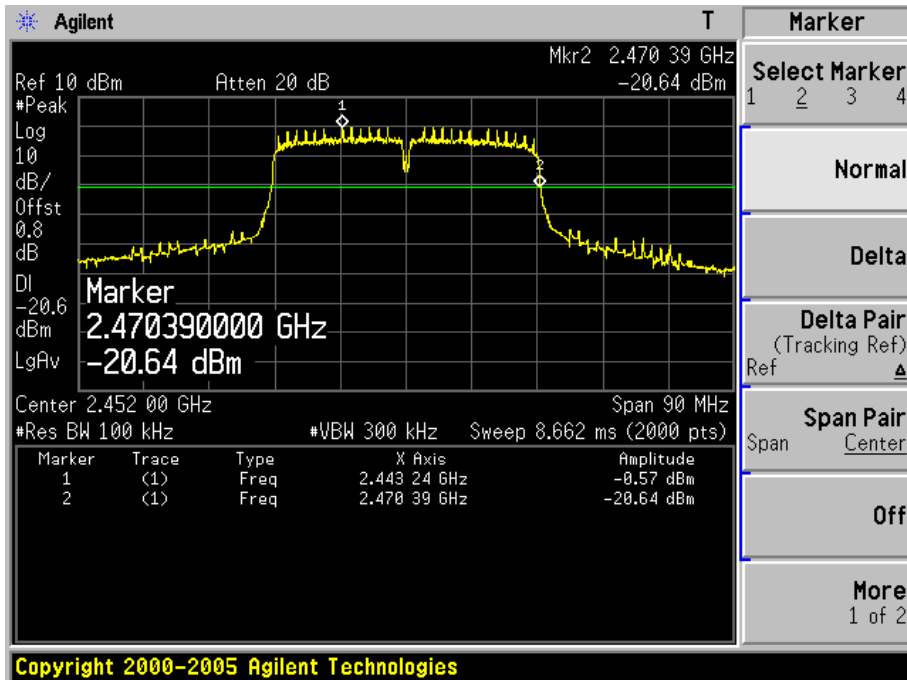


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

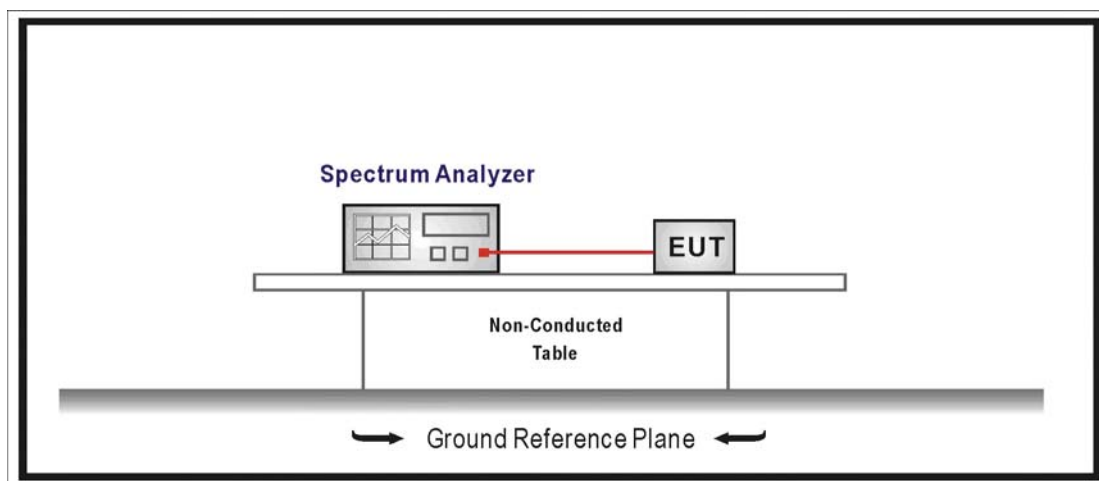
8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
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

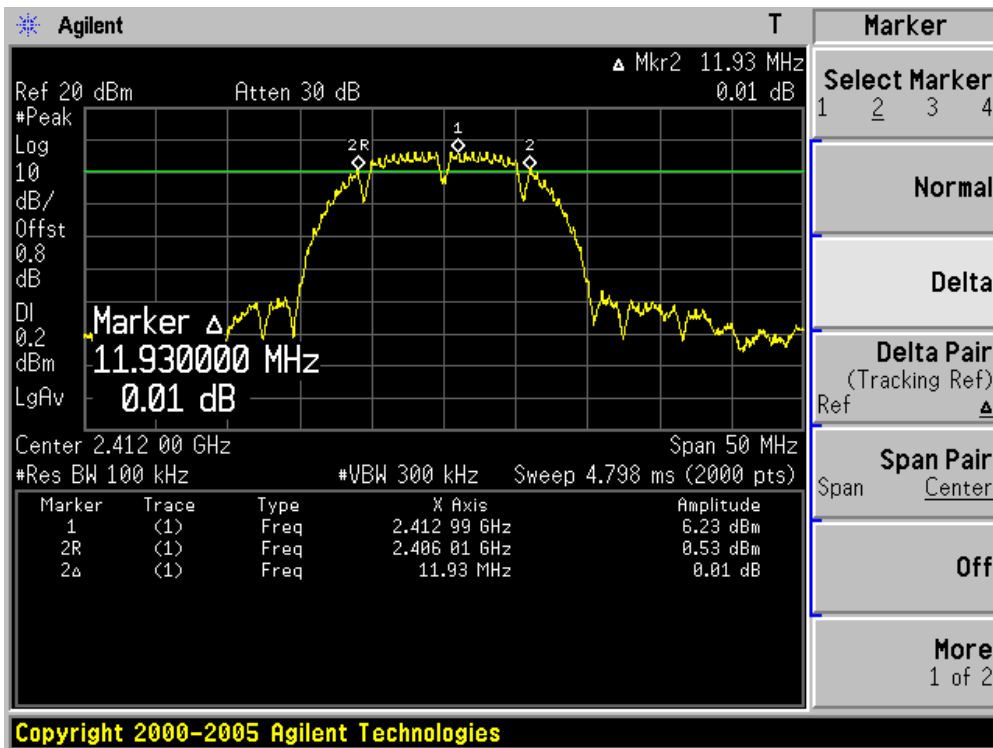
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

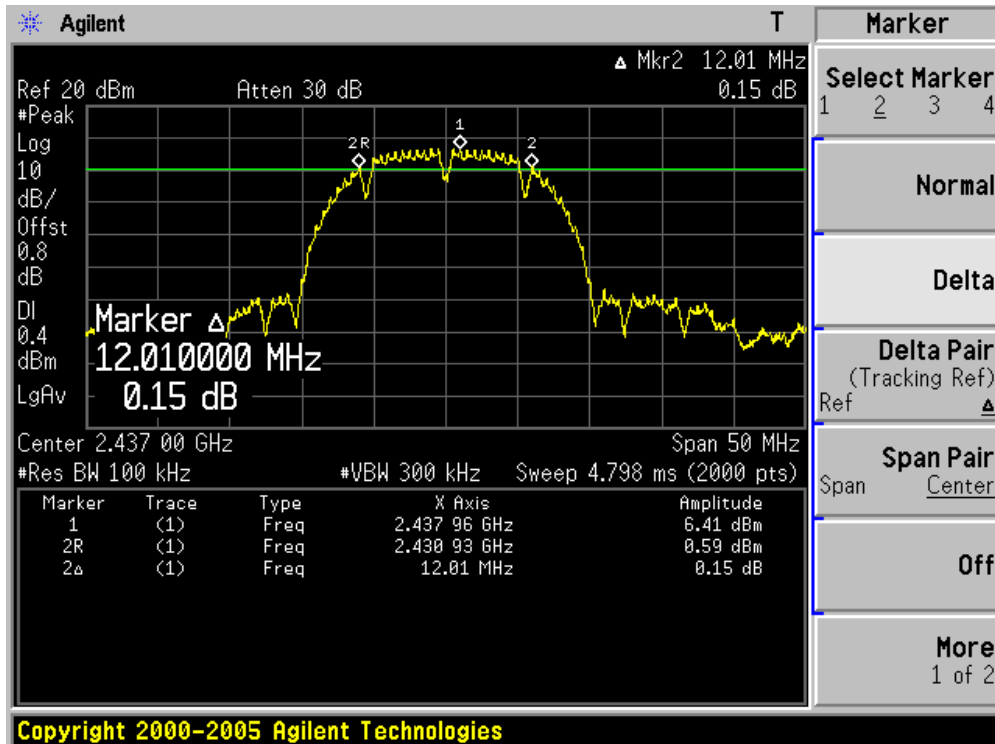
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	11930	500	Pass
06	2437	12010	500	Pass
11	2462	11910	500	Pass

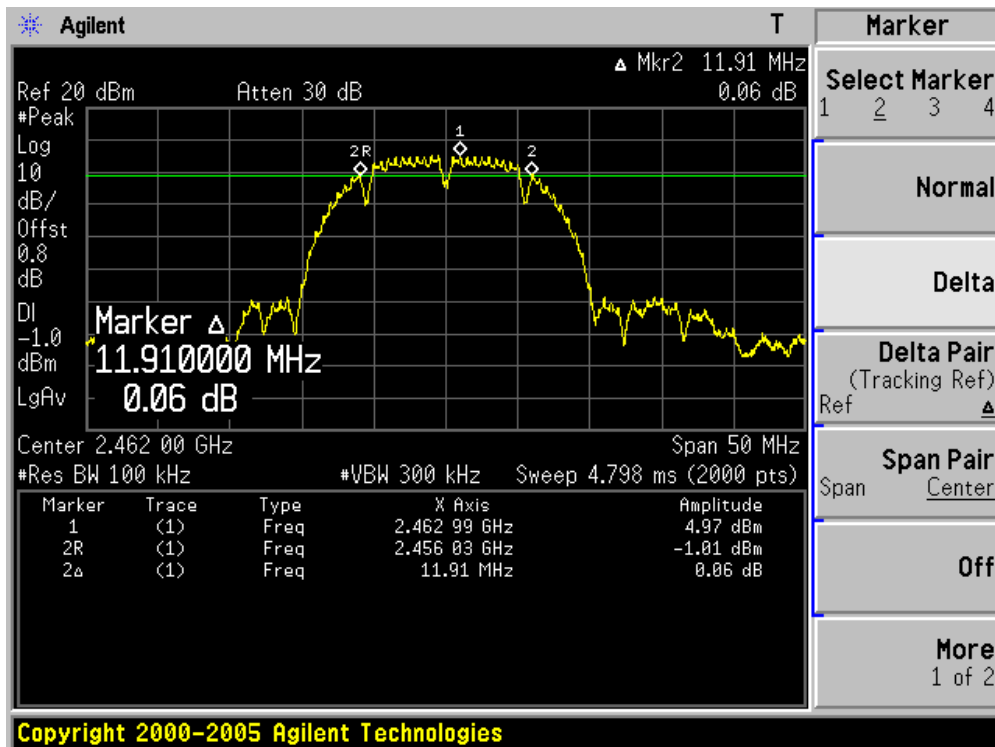
Channel 01 (2412MHz)



Channel 06 (2437MHz)



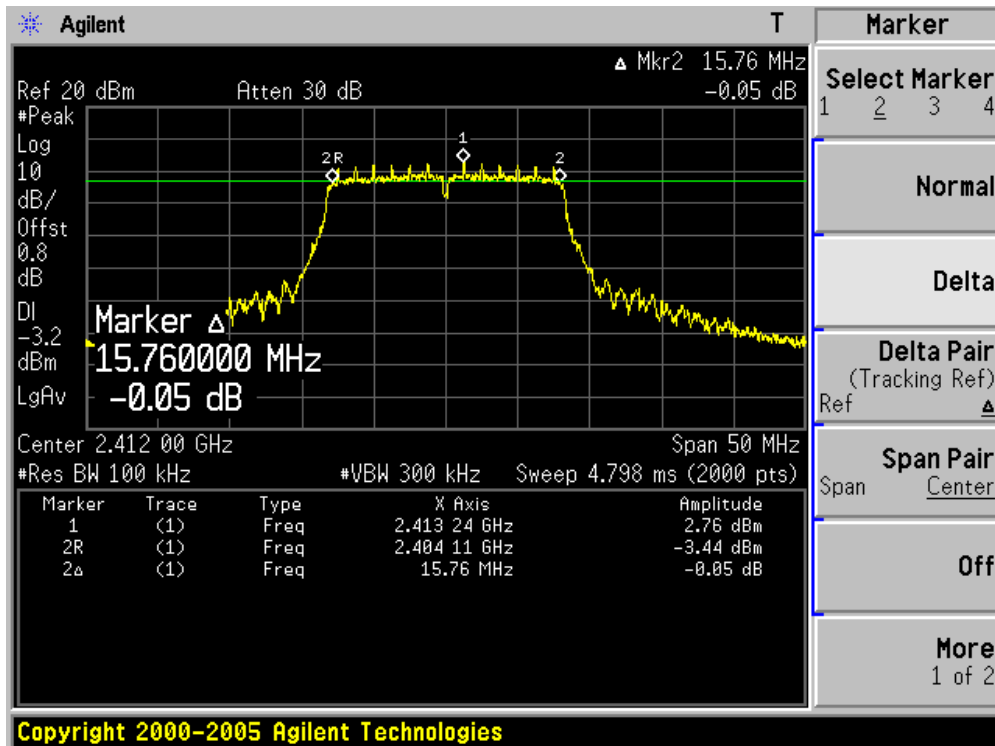
Channel 11 (2462MHz)



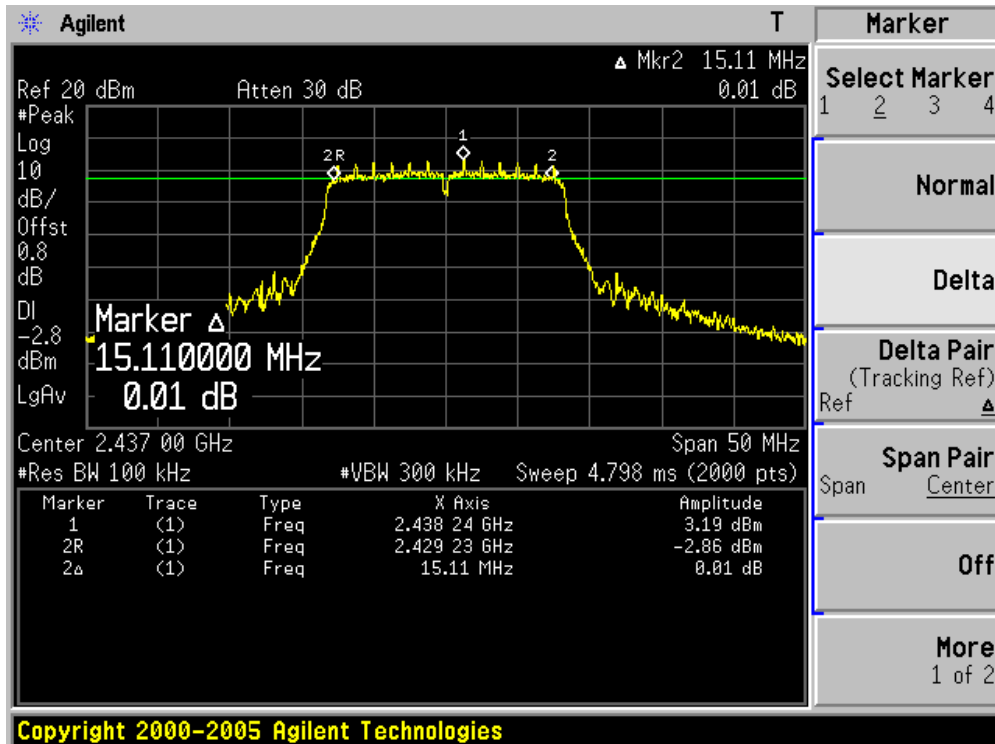
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15760	500	Pass
06	2437	15110	500	Pass
11	2462	15510	500	Pass

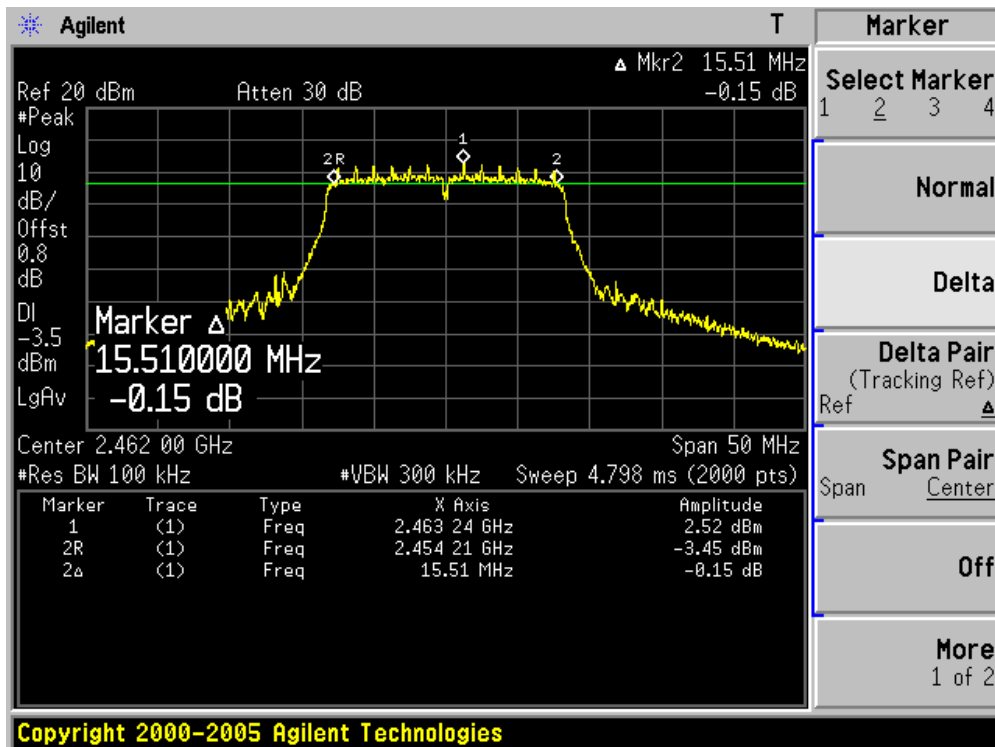
Channel 01 (2412MHz)



Channel 06 (2437MHz)



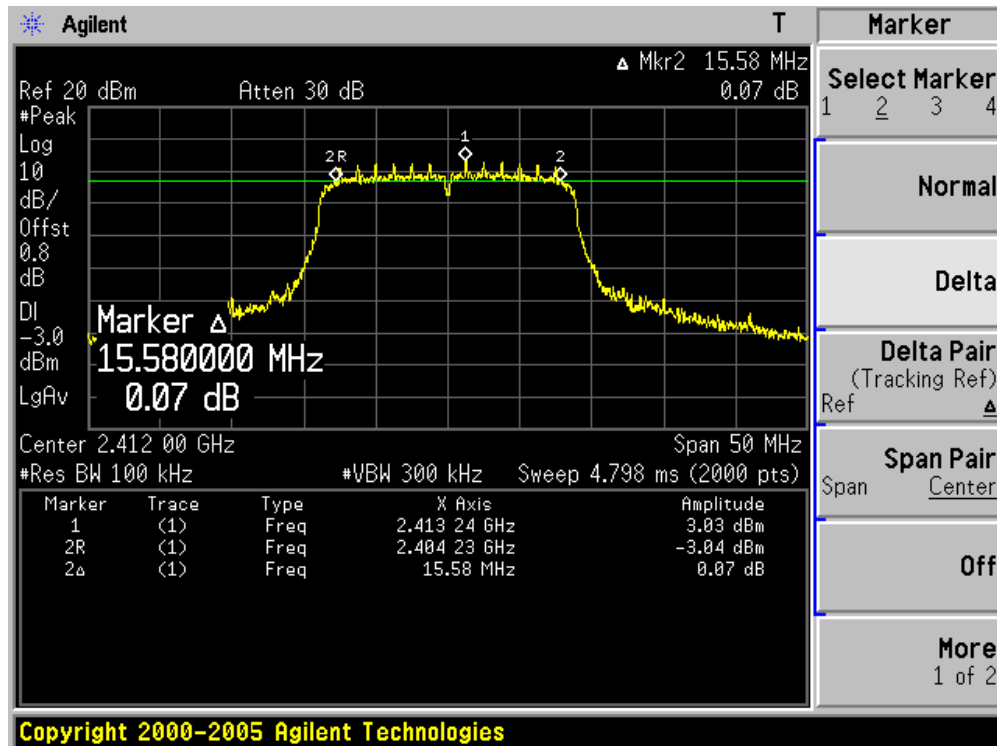
Channel 11 (2462MHz)



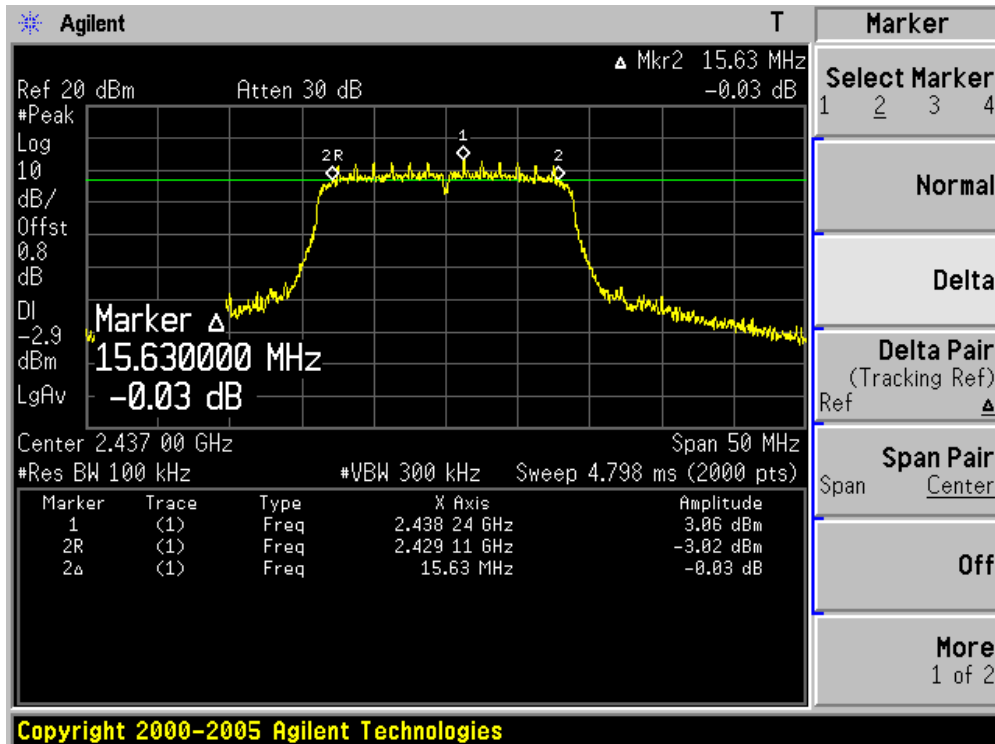
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15580	500	Pass
06	2437	15630	500	Pass
11	2462	15360	500	Pass

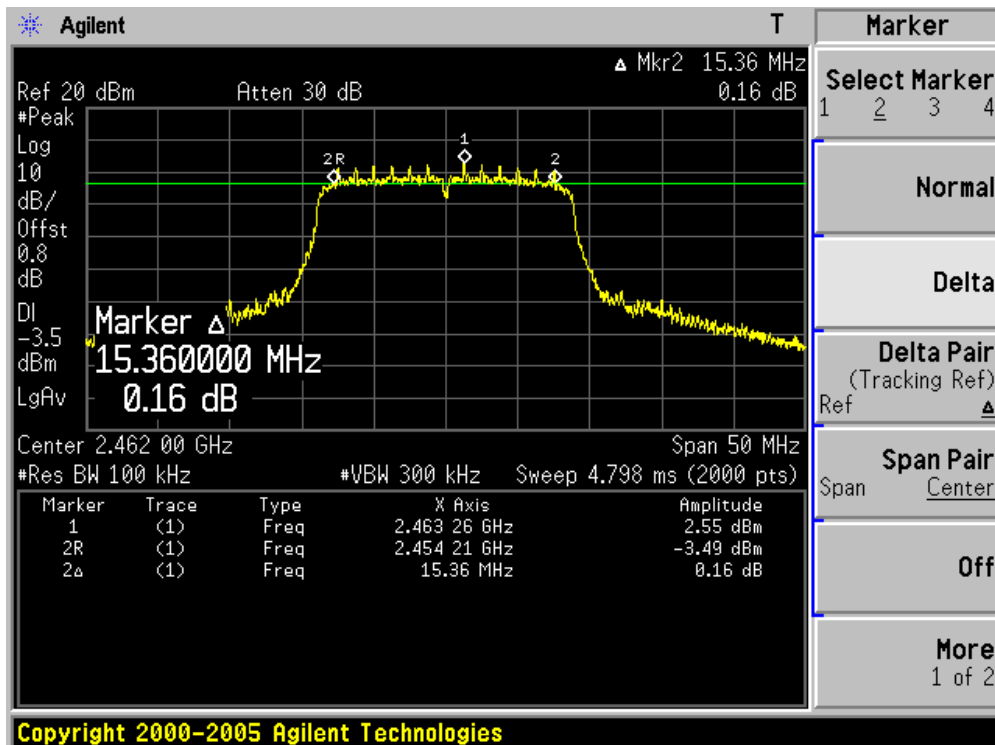
Channel 01 (2412MHz)



Channel 06 (2437MHz)



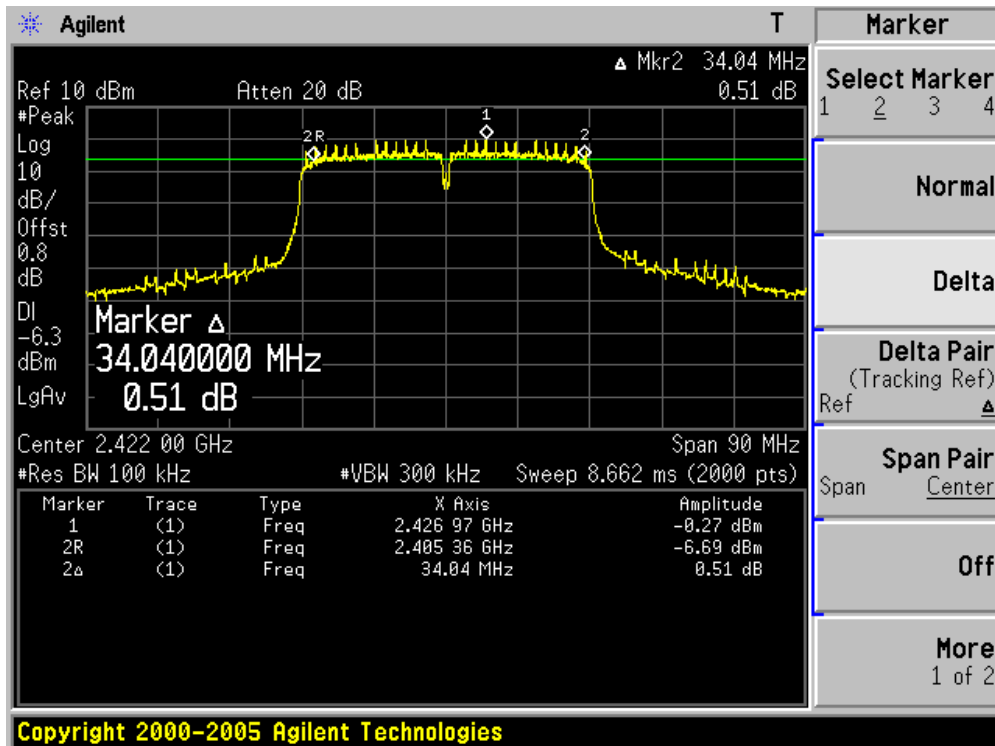
Channel 11 (2462MHz)



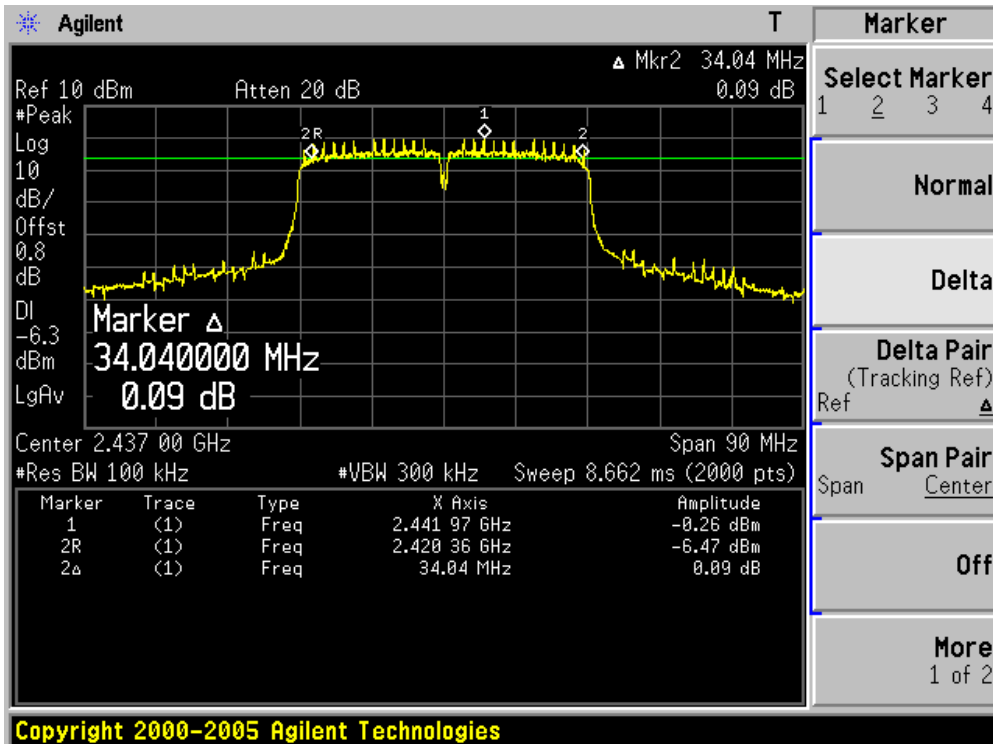
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	34040	500	Pass
06	2437	34040	500	Pass
09	2452	34800	500	Pass

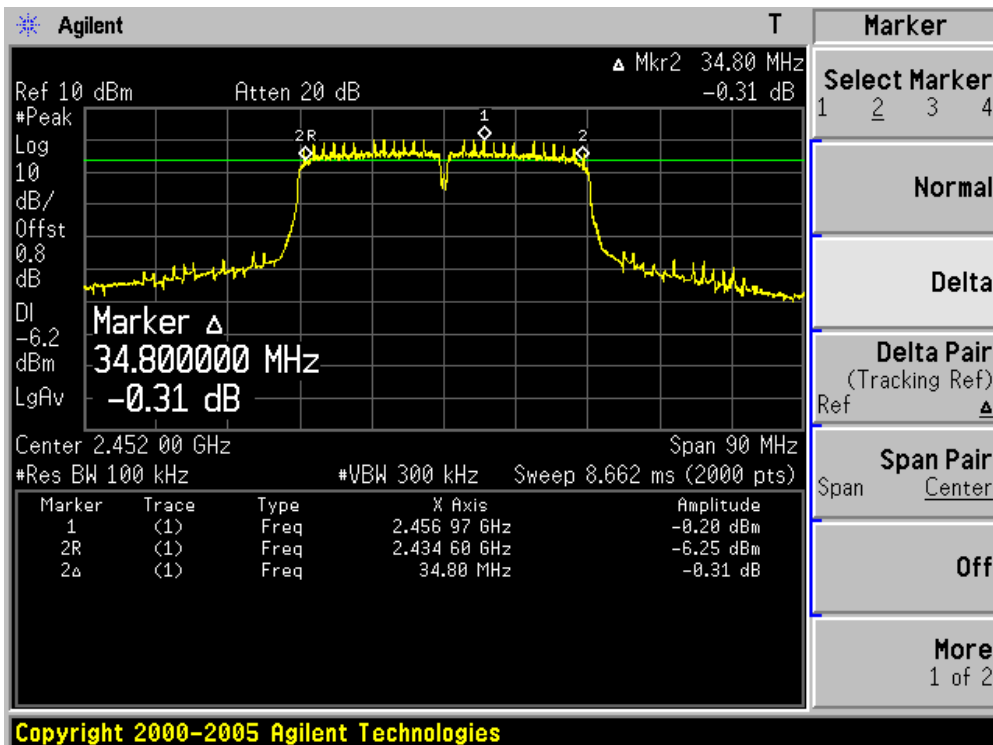
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

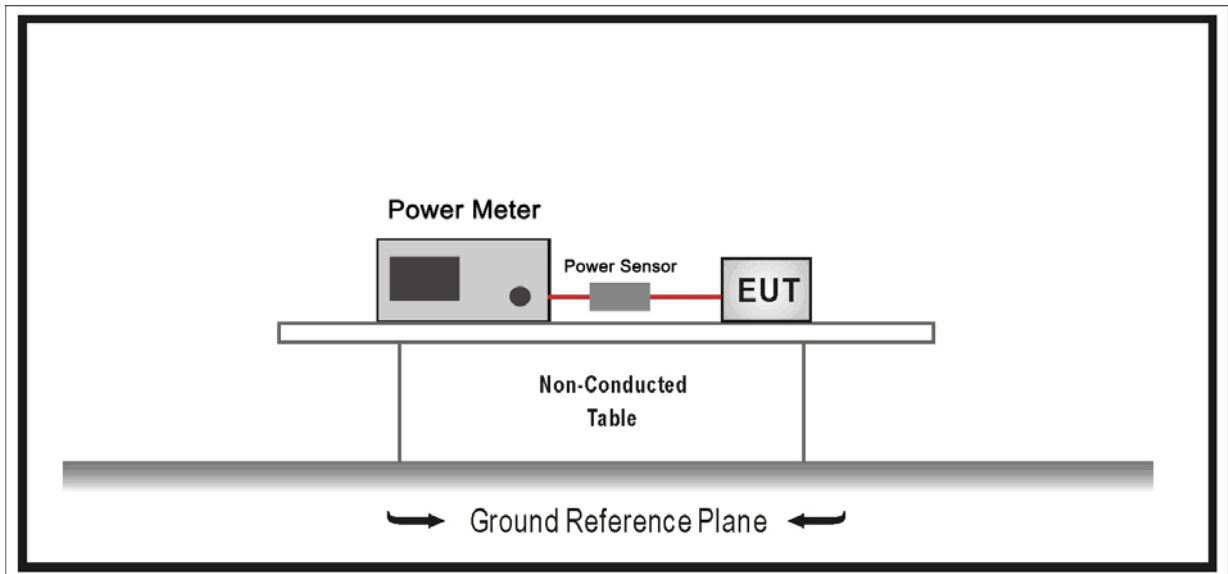
9.1. Test Equipment

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	18.89
			2	18.76
			5.5	18.58
			11	18.42
802.11g	2437	6	6	19.23
			9	19.16
			12	19.15
			18	19.02
			24	19.01
			36	18.79
			48	18.72
			54	18.54
802.11n (20M)	2437	6	6.5	19.51
			13.0	19.42
			19.5	19.34
			26.0	19.18
			39.0	19.06
			52.0	18.84
			58.5	18.65
			65.0	18.12
802.11n (40M)	2437	6	13.5	18.25
			27.0	18.09
			40.5	18.05
			54.0	17.84
			81.0	17.65
			108.0	17.42
			121.5	17.04
			135.0	16.42

Product	:	Eee PC
Test Item	:	Power Output

Test Mode	Channel No.	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
802.11b	01	2412	18.33	30	Pass
	06	2437	18.89	30	Pass
	11	2462	18.51	30	Pass
802.11g	01	2412	18.77	30	Pass
	06	2437	19.23	30	Pass
	11	2462	18.95	30	Pass
802.11n(20M)	01	2412	18.96	30	Pass
	06	2437	19.51	30	Pass
	11	2462	19.14	30	Pass
802.11n(40M)	03	2422	17.55	30	Pass
	06	2437	18.25	30	Pass
	09	2452	18.18	30	Pass

10. Power Spectral Density

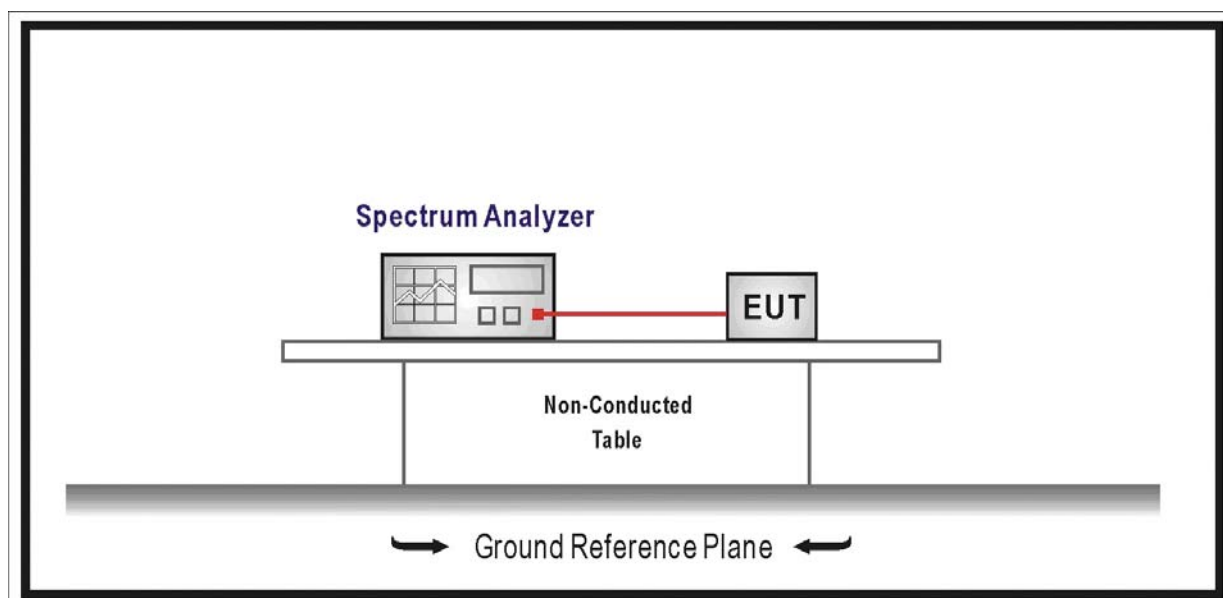
10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
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

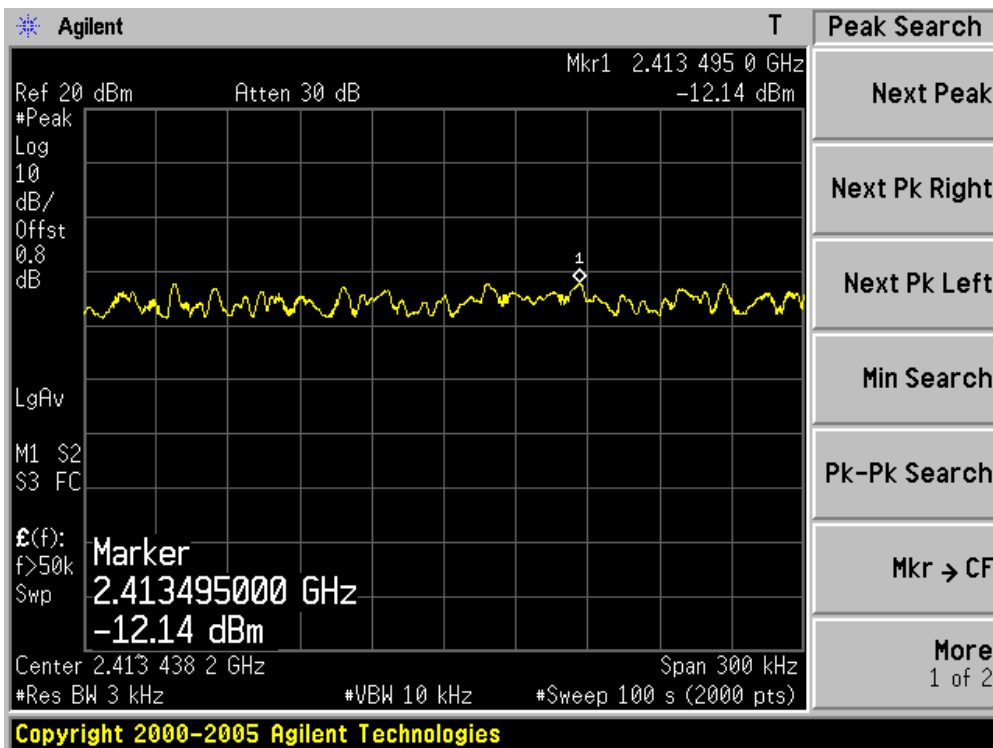
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

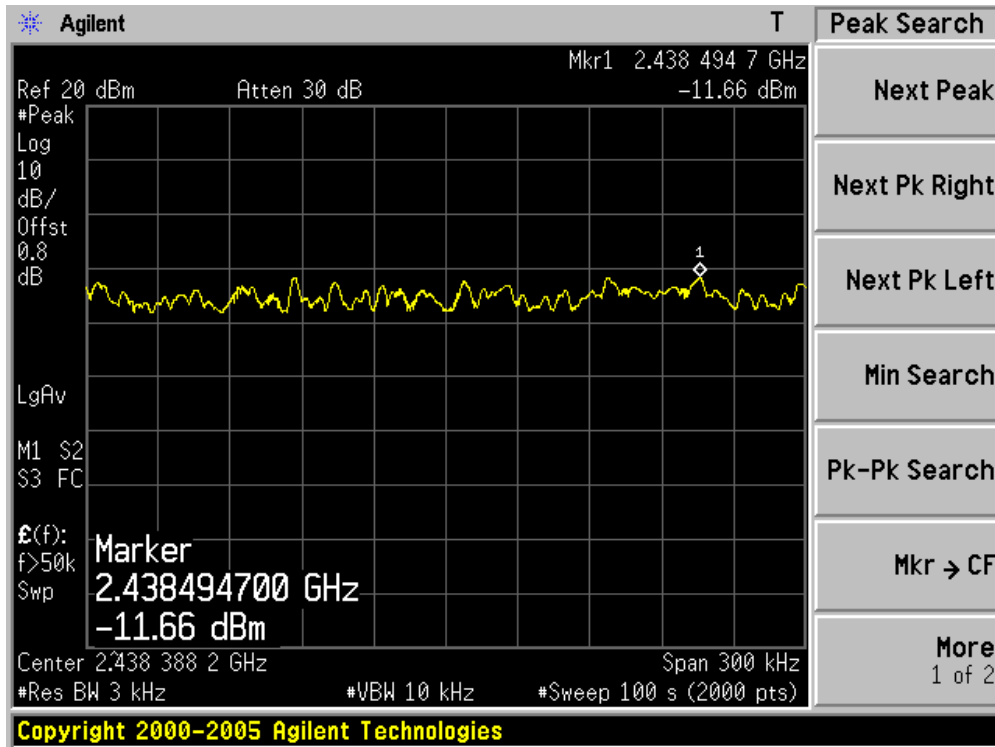
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-12.14	8	Pass
06	2437	-11.66	8	Pass
11	2462	-10.39	8	Pass

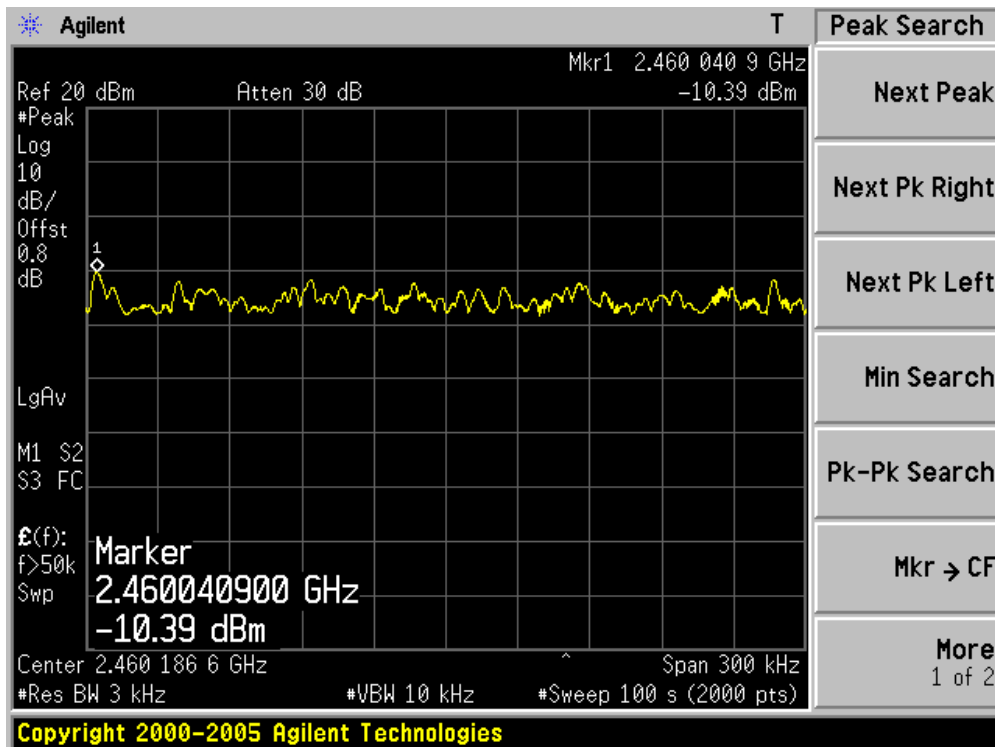
Channel 01 (2412MHz)



Channel 06 (2437MHz)



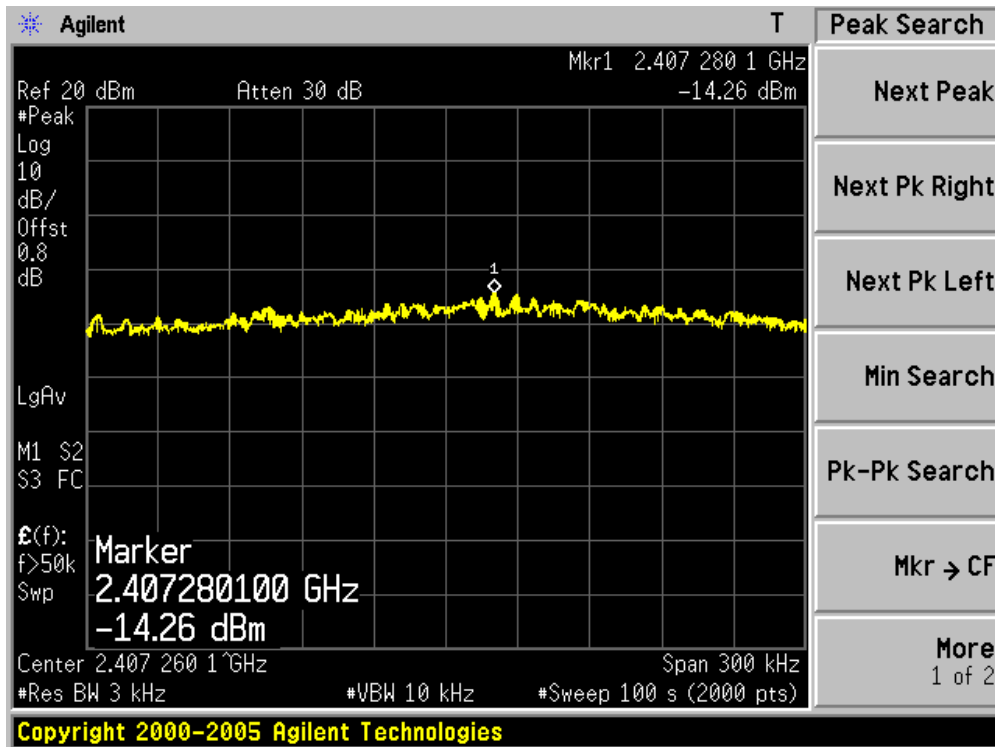
Channel 11 (2462MHz)



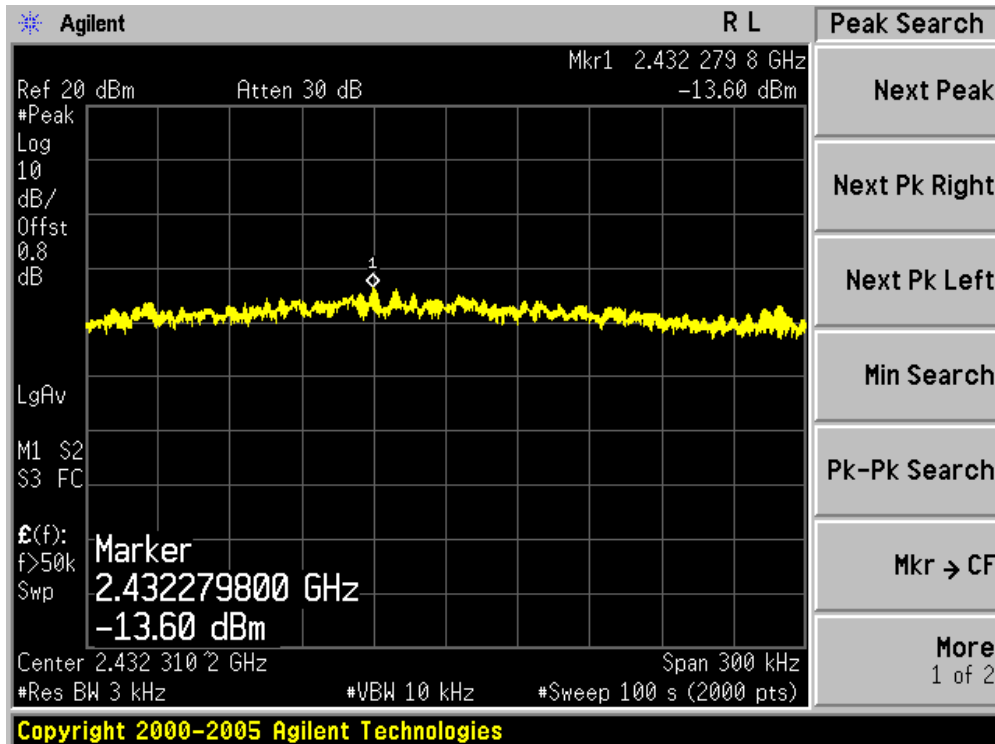
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-14.26	8	Pass
06	2437	-13.60	8	Pass
11	2462	-14.28	8	Pass

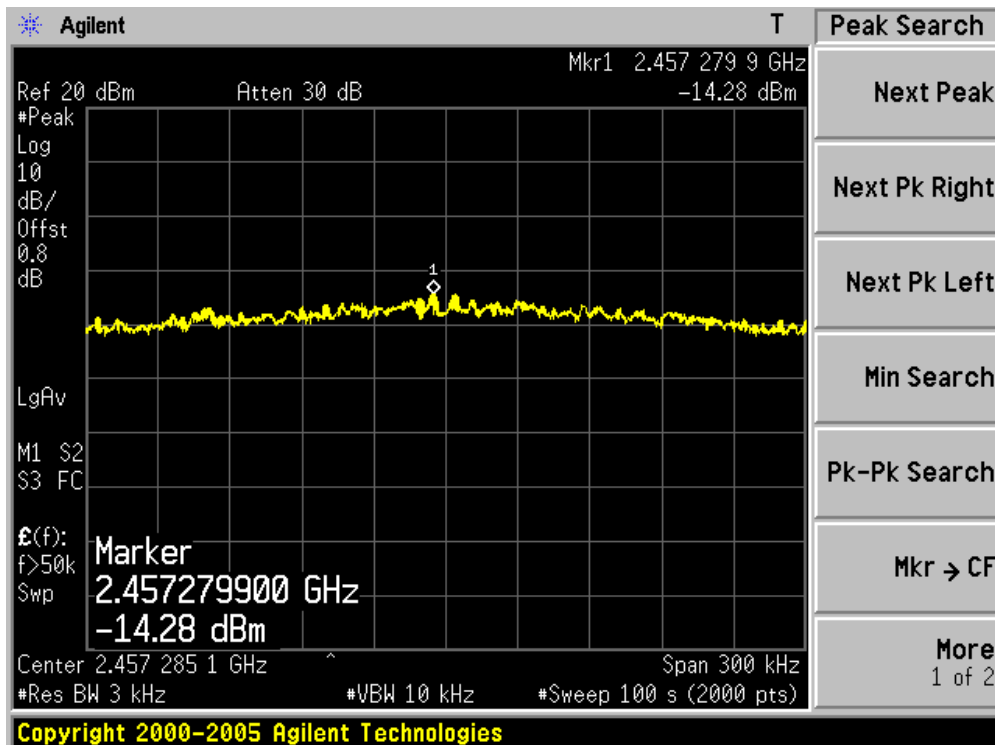
Channel 01 (2412MHz)



Channel 06 (2437MHz)



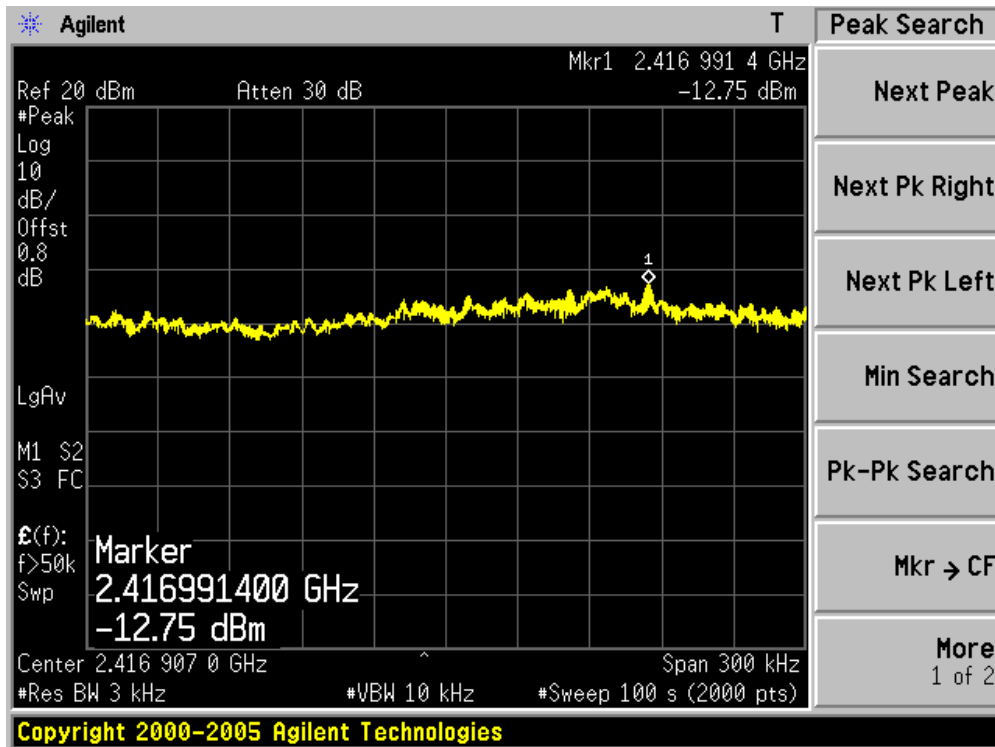
Channel 11 (2462MHz)



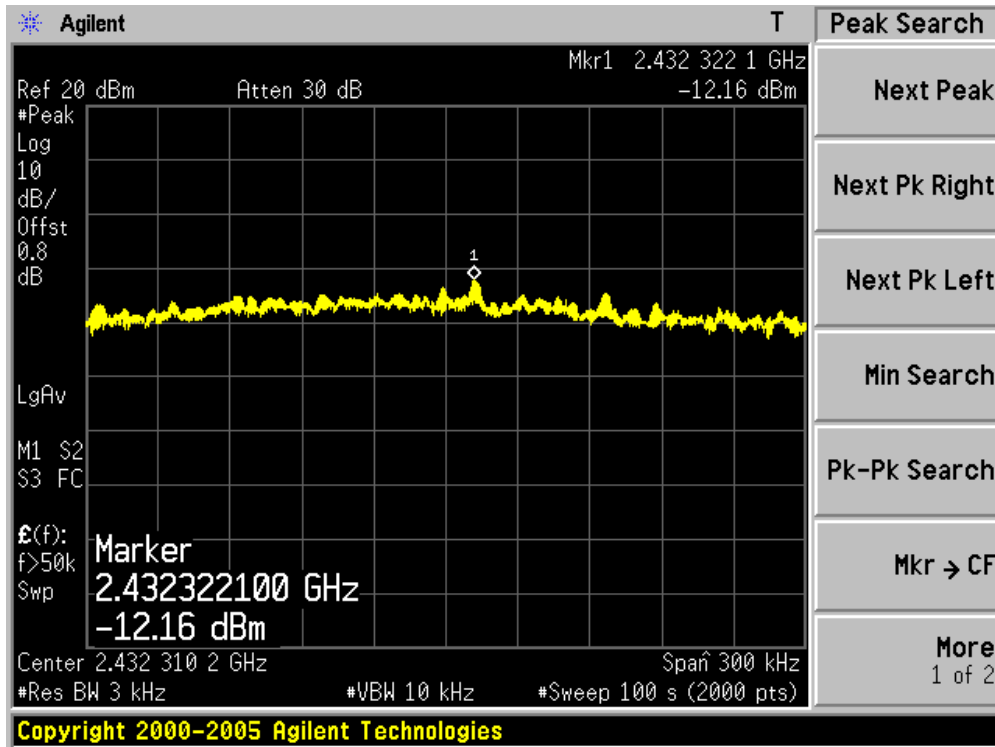
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-12.75	8	Pass
06	2437	-12.16	8	Pass
11	2462	-12.91	8	Pass

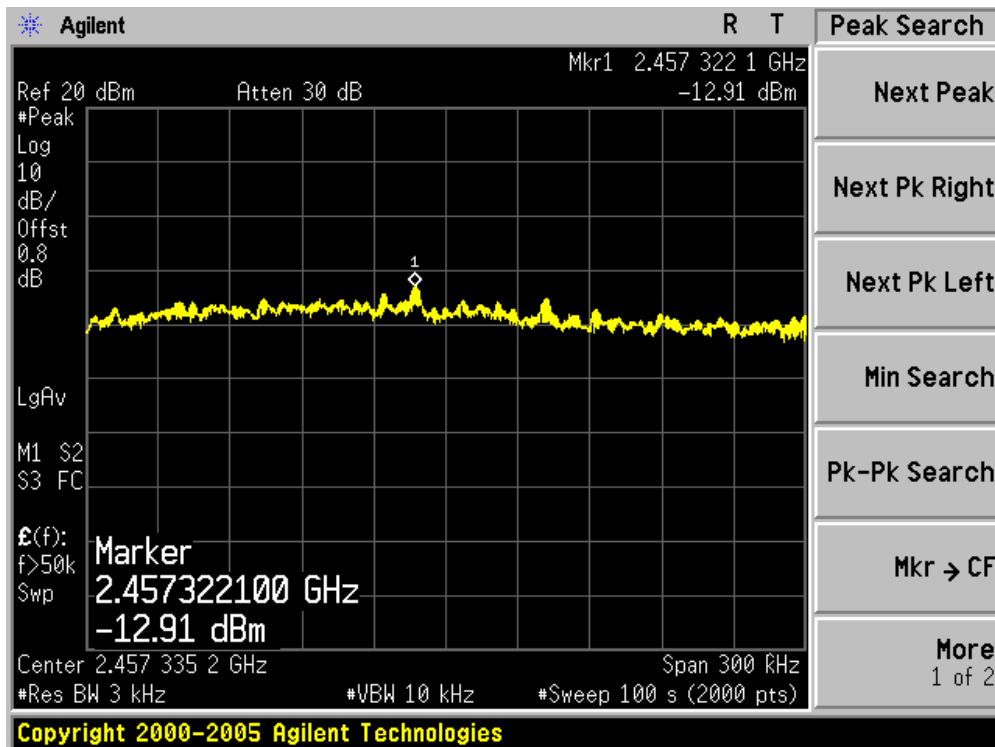
Channel 01 (2412MHz)



Channel 06 (2437MHz)



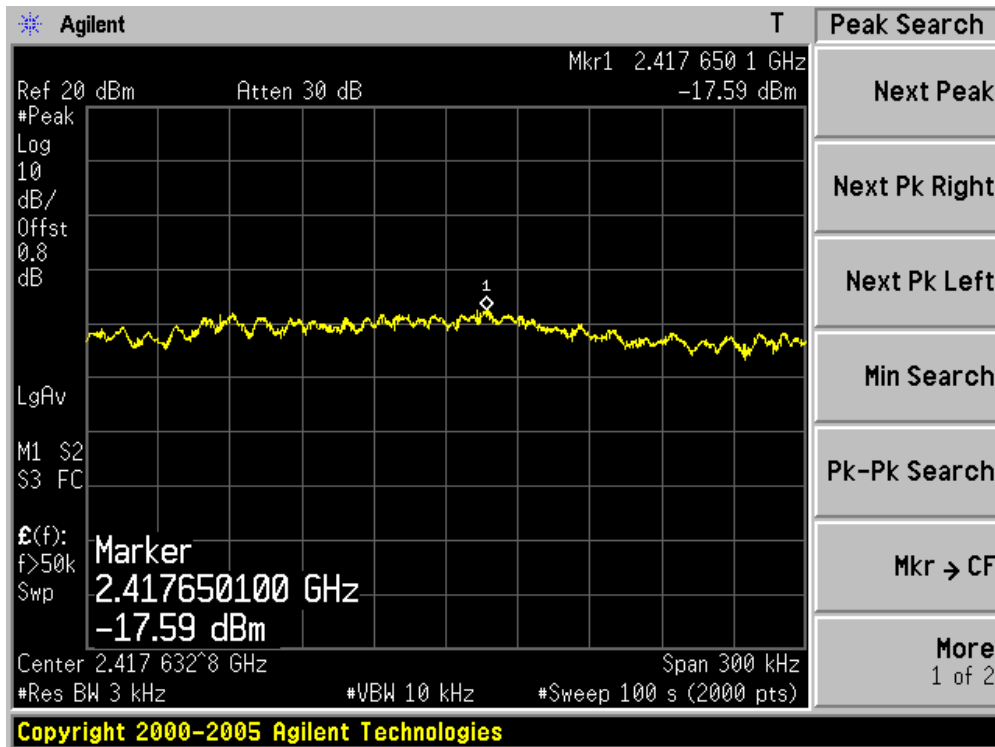
Channel 11 (2462MHz)



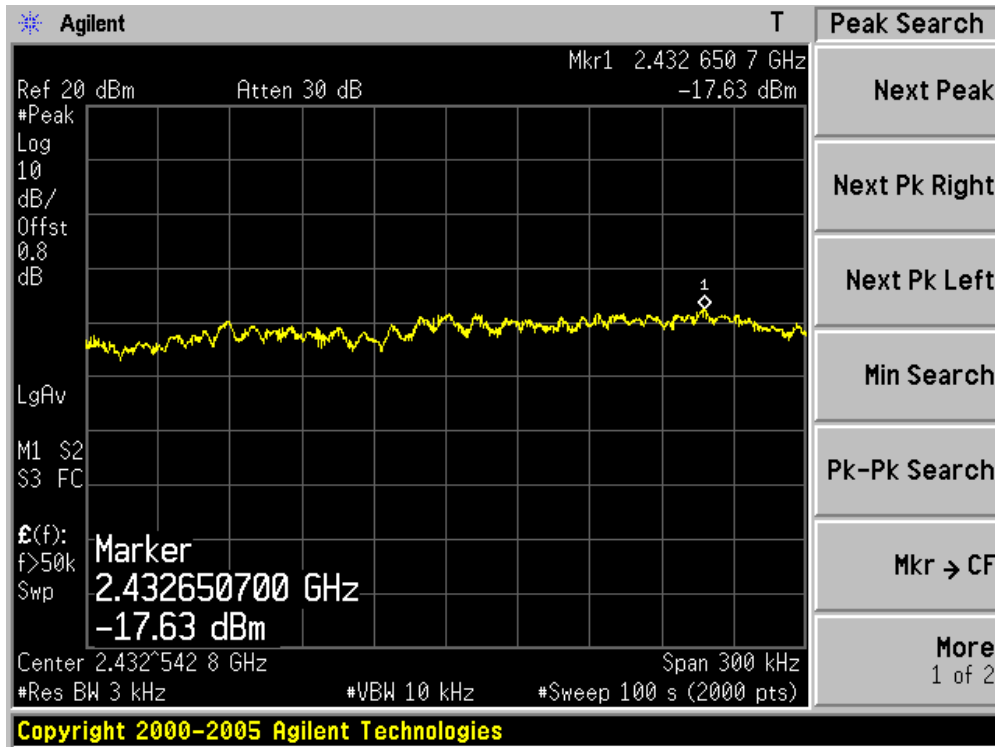
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
03	2422	-17.59	8	Pass
06	2437	-17.63	8	Pass
09	2452	-17.77	8	Pass

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

