

Test Report

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

Product Name : Eee PC
Model No. : Eee PC 1015T
FCC ID : MSQ15TNE785
IC : 3568A-15TNE785

Applicant : ASUSTEK COMPUTER INC.

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

Date of Receipt : Aug. 19, 2010
Test Date : Aug. 20, 2010 ~ Aug. 24, 2010
Issued Date : Aug. 25, 2010
Report No. : 108S013R-RF-US-P05V02
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.

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Test Report Certification

Issued Date : Aug. 25, 2010

Report No. : 108S013R-RF-US-P05V02



Product Name : Eee PC

Applicant : ASUSTEK COMPUTER INC.

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

Manufacturer : PROTEK (SHANGHAI) LTD

Address : NO.3768 Xiu Yan Rd.Kang Qiao Town, PuDong Dist,
Shang Hai

Model No. : Eee PC 1015T

FCC ID : MSQ15TNE785

IC : 3568A-15TNE785

EUT Voltage : 19Vdc

Trade Name : ASUS

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
ANSI C63.4: 2009
ANSI C63.10: 2009
RSS-Gen Issue 2/RSS-210 Issue 7

Test Result : Complied

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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 1015T
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 150 Mbps
Channel Control	Auto
Antenna Delivery	1*Tx + 1*Rx
Antenna Type	PIFA
Peak Antenna Gain	1.63 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-700448	1.63

1.2. Mode of Operation

QuietTek 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 802.11 n (40MHz)

Note:

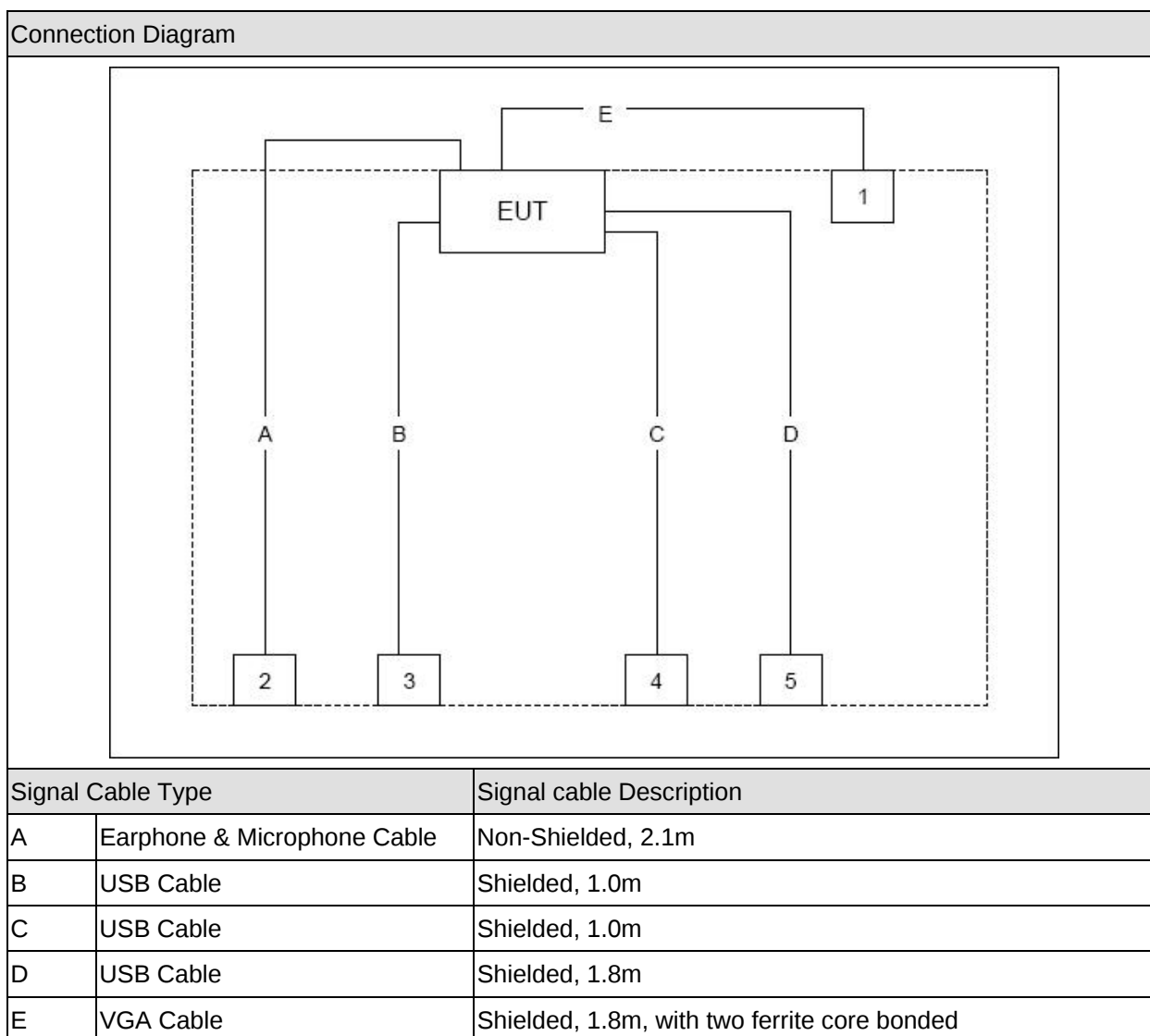
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations.

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	DELL	U2410f	CN-OJ257M-72872-99E-1KJL	Non-Shielded, 1.8m
2	Microphone & Earphone	SOMIC	CD-2688M.V	N/A	N/A
3	iPod	Apple	A1199	6U715UPHVQ5	Power by PC
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	Open the software "ART" 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

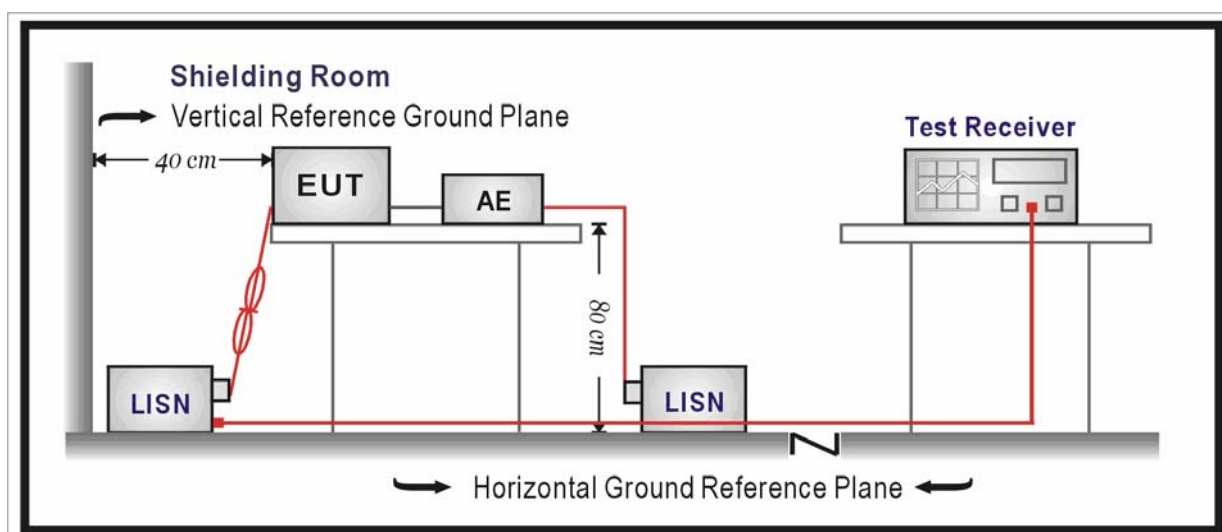
3.1. Test Equipment

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	2010.06.18
Two-Line V-Network	R&S	ENV216	100044	2009.09.07
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2010.05.05
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: 2009 and tested according to ANSI C63.10: 2009 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.

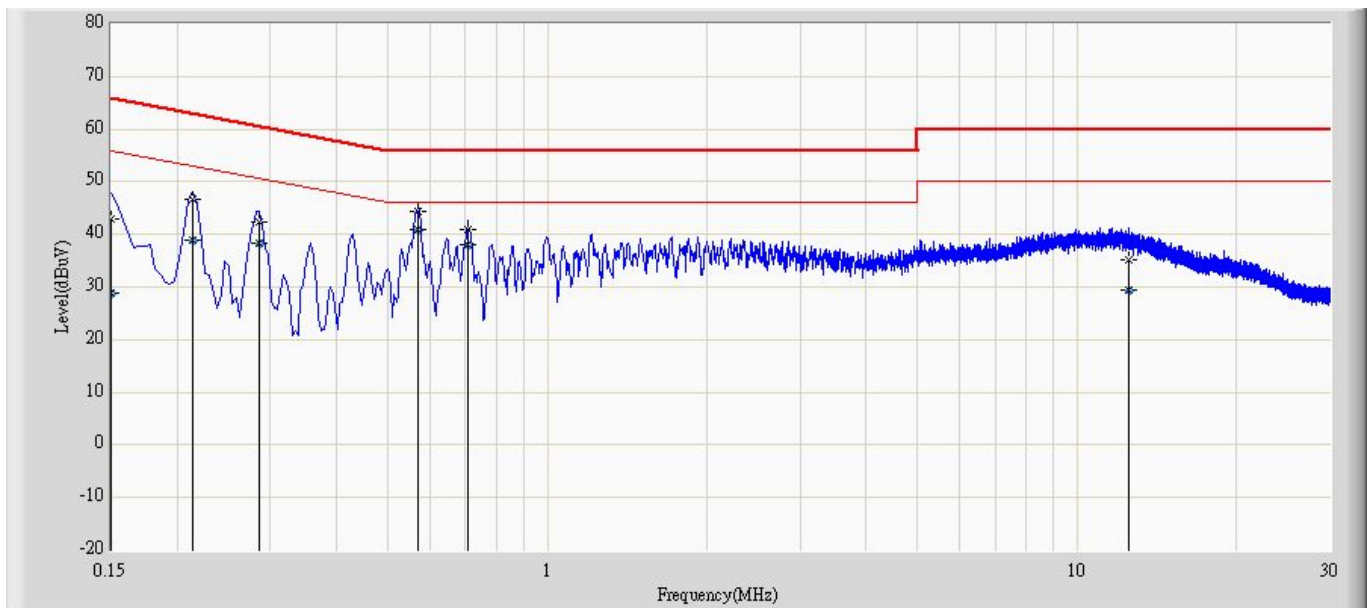
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

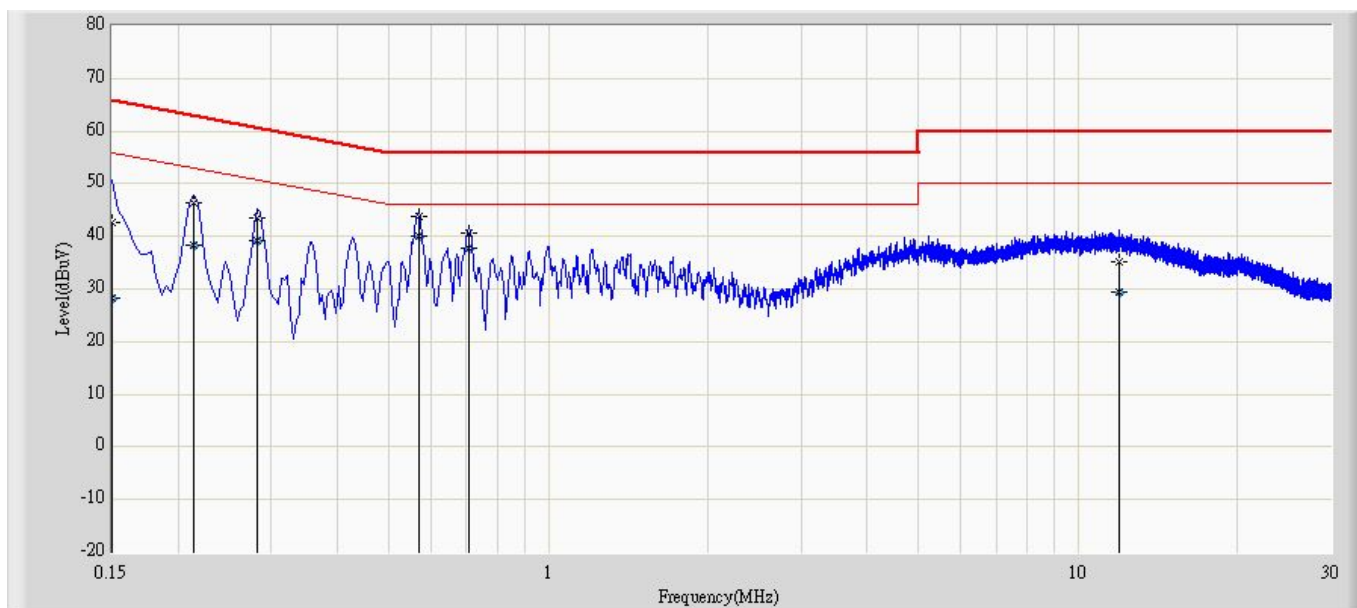
3.6. Test Result

Engineer: Sunny	
Site: TR1	Time: 2010/08/20 - 05:55
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	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.150	43.035	33.447	-22.965	66.000	9.588	QP
2		0.150	28.870	19.282	-27.130	56.000	9.588	AV
3		0.214	46.667	36.991	-16.382	63.049	9.676	QP
4		0.214	38.885	29.209	-14.164	53.049	9.676	AV
5		0.286	42.304	32.624	-18.336	60.640	9.680	QP
6		0.286	38.328	28.648	-12.312	50.640	9.680	AV
7		0.570	44.251	34.561	-11.749	56.000	9.690	QP
8	*	0.570	40.961	31.271	-5.039	46.000	9.690	AV
9		0.706	40.944	31.254	-15.056	56.000	9.690	QP
10		0.706	37.949	28.260	-8.051	46.000	9.690	AV
11		12.510	35.082	25.019	-24.918	60.000	10.063	QP
12		12.510	29.426	19.362	-20.574	50.000	10.063	AV

Engineer: Sunny	
Site: TR1	Time: 2010/08/20 - 06:00
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	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.150	42.588	32.847	-23.412	66.000	9.741	QP
2		0.150	28.262	18.521	-27.738	56.000	9.741	AV
3		0.214	46.400	36.745	-16.649	63.049	9.655	QP
4		0.214	38.282	28.627	-14.766	53.049	9.655	AV
5		0.282	43.418	33.765	-17.339	60.757	9.653	QP
6		0.282	39.205	29.553	-11.551	50.757	9.653	AV
7		0.570	43.682	34.005	-12.318	56.000	9.677	QP
8	*	0.570	40.056	30.379	-5.944	46.000	9.677	AV
9		0.706	40.585	30.895	-15.415	56.000	9.690	QP
10		0.706	37.867	28.177	-8.133	46.000	9.690	AV
11		11.958	35.182	25.117	-24.818	60.000	10.065	QP
12		11.958	29.467	19.402	-20.533	50.000	10.065	AV

4. Radiated Emission

4.1. Test Equipment

☒ Radiated Emission / AC-2

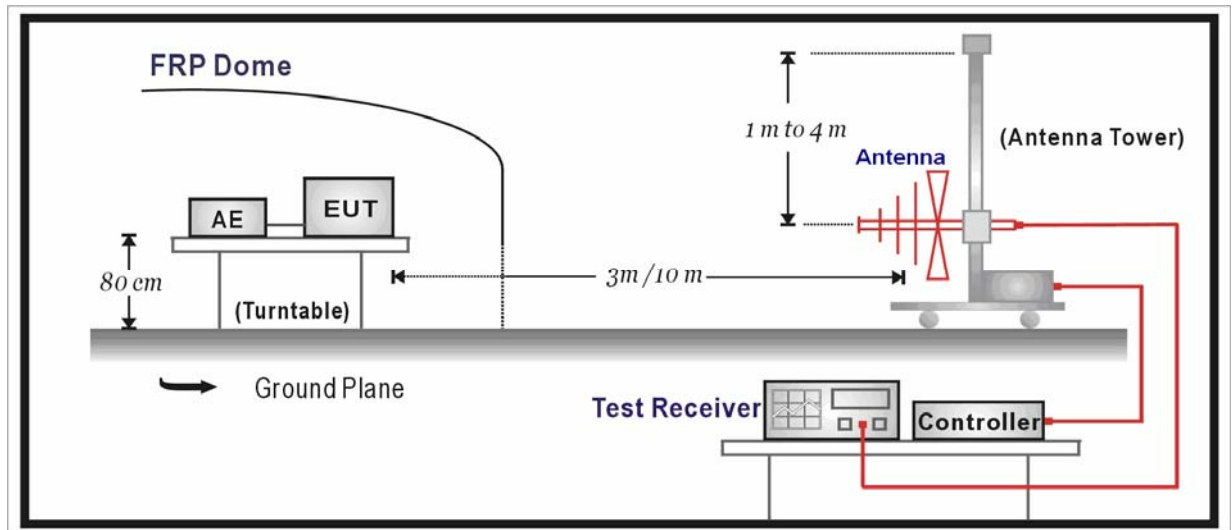
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2010/04/23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2009/11/12
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2010/05/05
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2010/01/14

☒ Radiated Emission / AC-5

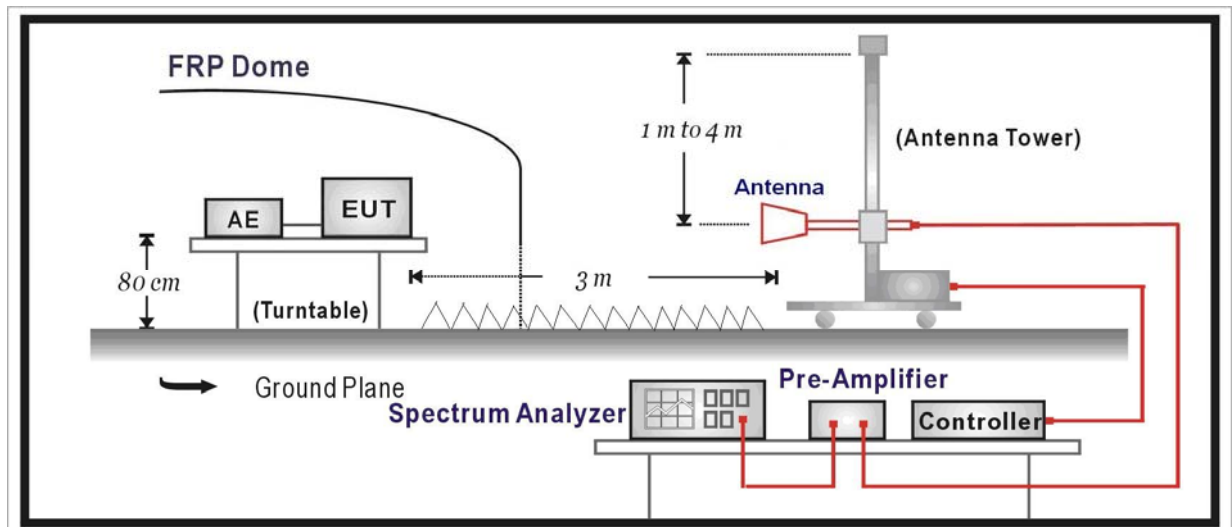
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2010.04.23
EMI Test Receiver	R&S	ESCI	100573	2010.04.23
Preamplifier	Quietek	AP-025C	CHM-0511006	2010.05.05
Preamplifier	Quietek	AP-180C	CHM-0602013	2010.05.05
Bilog Type Antenna	Schaffner	CBL6112B	2932	2009.11.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2010.06.11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2010.03.03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2010.03.03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2010.03.03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2010.03.03
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2010.05.05
Temperature/Humidity Meter	zhicheng	ZC1-2	AC5-TH	2010.01.14

4.2. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

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

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

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

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

4.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to ANSI C63.10: 2009 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 C63.4:2009 on radiated measurement.

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

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

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the "cone of radiation" of EUT. The 3dB beamwidth is 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	2410.5	70.7	30.9	101.6	Fundamental	/	PK
	V	33.9	39.1	-6.1	33.0	40.0	-7.0	QP
	H	91.1	47.2	-13.0	34.2	43.5	-9.3	QP
	V	3218.5	45.4	-4.4	41.0	54(note)	-13.0	PK
	H	4825.0	43.9	0.4	44.3	54(note)	-9.7	PK
	H	6525.0	41.4	4.1	45.5	54(note)	-8.5	PK
	H	24000.0	59.1	-8.9	50.2	54(note)	-3.8	PK
6	H	2435.5	69.8	30.9	100.7	Fundamental	/	PK
	V	33.9	39.2	-6.1	33.1	40.0	-6.9	QP
	H	91.1	46.5	-13.0	33.5	43.5	-10.0	QP
	V	3252.5	44.4	-4.6	39.8	54(note)	-14.2	PK
	V	4995.0	43.5	0.4	43.9	54(note)	-10.1	PK
	H	7205.0	40.6	7.4	48.0	54(note)	-6.0	PK
	H	24000.0	59.1	-8.9	50.2	54(note)	-3.8	PK
11	H	2461.9	74.2	31.0	105.2	Fundamental	/	PK
	V	33.9	39.1	-6.1	33.0	40.0	-7.0	QP
	H	91.1	47.5	-13.0	34.5	43.5	-9.0	QP
	V	3286.5	44.0	-4.7	39.3	54(note)	-14.7	PK
	H	4927.0	45.9	0.5	46.4	54(note)	-7.6	PK
	H	7386.0	47.0	-5.6	41.4	54(note)	-12.6	PK
	H	24000.0	59.1	-8.9	50.2	54(note)	-3.8	PK

802.11g

CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2414.8	73.0	30.9	103.9	Fundamental	/	PK
	V	33.9	39.2	-6.1	33.1	40.0	-6.9	QP
	H	91.1	47.1	-13.0	34.1	43.5	-9.4	QP
	V	2997.5	59.9	-17.8	42.1	54(Note)	-11.9	PK
	H	4825.0	56.4	-14.3	42.1	54(Note)	-11.9	PK
	H	7236.0	57.4	-6.1	51.3	54(Note)	-2.7	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
6	H	2435.1	74.0	30.8	104.8	Fundamental	/	PK
	V	33.9	39.1	-6.1	33.0	40.0	-7.0	QP
	H	91.1	47.4	-13.0	34.4	43.5	-9.1	QP
	V	3252.5	48.9	-4.6	44.3	54(Note)	-9.7	PK
	H	6533.5	41.6	4.1	45.7	54(Note)	-8.3	PK
	H	7154.0	40.3	7.1	47.4	54(Note)	-6.6	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
11	H	2465.2	74.3	31.0	105.3	Fundamental	/	PK
	V	33.9	39.6	-6.1	33.5	40.0	-6.5	QP
	H	91.1	47.5	-13.0	34.5	43.5	-9.0	QP
	V	3286.5	45.7	-4.7	41.0	54(Note)	-13.0	PK
	V	4995.0	44.0	0.4	44.4	54(Note)	-9.6	PK
	V	7171.0	40.6	7.1	47.7	54(Note)	-6.3	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-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	2415.4	71.0	30.9	101.9	Fundamental	/	PK
	V	33.9	39.6	-6.1	33.5	40.0	-6.5	QP
	H	91.1	47.3	-13.0	34.3	43.5	-9.2	QP
	V	3218.5	44.5	-4.4	40.1	54(Note)	-13.9	PK
	H	4986.5	43.9	0.4	44.3	54(Note)	-9.7	PK
	H	9134.5	38.9	8.9	47.8	54(Note)	-6.2	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
6	H	2439.3	75.2	30.8	106.0	Fundamental	/	PK
	V	33.9	39.1	-6.1	33.0	40.0	-7.0	QP
	H	91.1	47.2	-13.0	34.2	43.5	-9.3	QP
	V	3252.5	48.6	-4.6	44.0	54(Note)	-10.0	PK
	V	4995.0	44.0	0.4	44.4	54(Note)	-9.6	PK
	V	8259.0	39.7	7.4	47.1	54(Note)	-6.9	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
11	V	2462.4	73.2	31.0	104.2	Fundamental	/	PK
	V	33.9	38.5	-6.1	32.4	40.0	-7.6	QP
	H	91.1	47.2	-13.0	34.2	43.5	-9.3	QP
	V	3286.5	45.4	-4.6	40.8	54(Note)	-13.2	PK
	V	4995.0	44.0	0.4	44.4	54(Note)	-9.6	PK
	V	8259.0	39.7	7.4	47.1	54(Note)	-6.9	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-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	2409.4	59.9	30.9	90.8	Fundamental	/	PK
	V	33.9	39.1	-6.1	33.0	40.0	-7.0	QP
	H	91.1	47.8	-13.0	34.8	43.5	-8.7	QP
	H	3227.0	42.7	-4.5	38.2	54(Note)	-15.8	PK
	V	4995.0	44.4	0.4	44.8	54(Note)	-9.2	PK
	V	7060.5	40.3	6.5	46.8	54(Note)	-7.2	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
6	H	2439.3	70.1	30.8	100.9	Fundamental	/	PK
	V	33.9	39.4	-6.1	33.3	40.0	-6.7	QP
	H	91.1	47.2	-13.0	34.2	43.5	-9.3	QP
	V	3252.5	46.9	-4.6	42.3	54(Note)	-11.7	PK
	V	4995.0	44.5	0.4	44.9	54(Note)	-9.1	PK
	V	7154.0	39.9	7.1	47.0	54(Note)	-7.0	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK
9	V	2455.1	66.9	31.0	97.9	Fundamental	/	PK
	V	33.9	39.2	-6.1	33.1	40.0	-6.9	QP
	H	91.1	47.5	-13.0	34.5	43.5	-9.0	QP
	V	3269.5	44.3	-4.6	39.7	54(Note)	-14.3	PK
	V	4995.0	44.1	0.4	44.5	54(Note)	-9.5	PK
	V	11803.5	39.8	11.0	50.8	54(Note)	-3.2	PK
	H	24000.0	59.1	-8.9	50.2	54(Note)	-3.8	PK

Note: 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

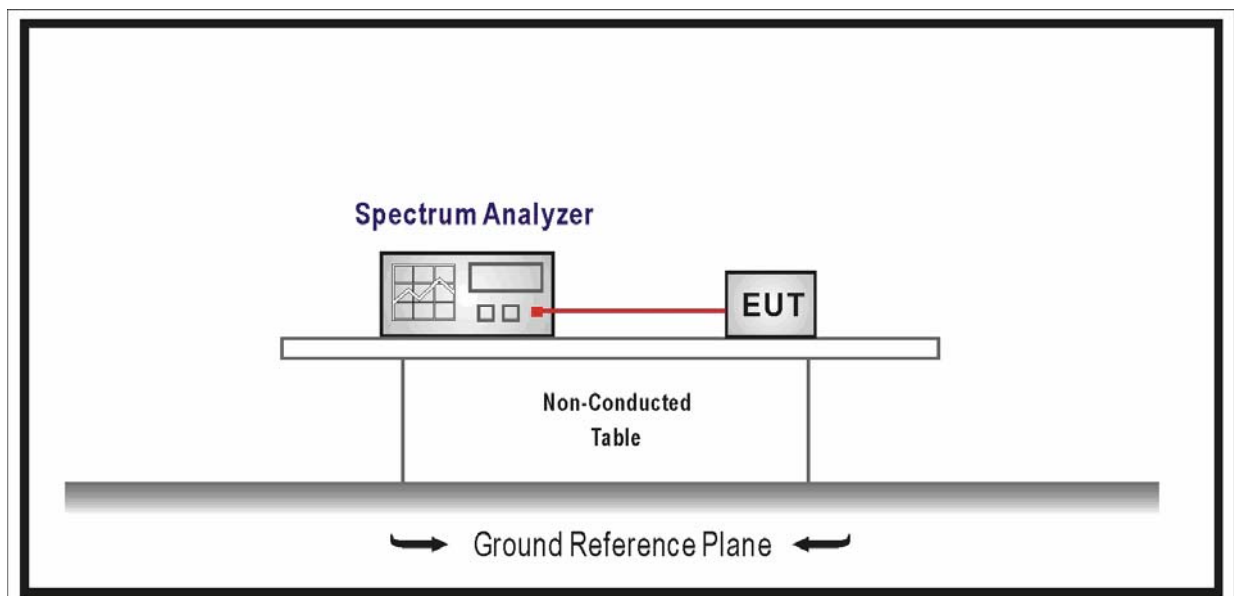
5.1. Test Equipment

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 ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

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

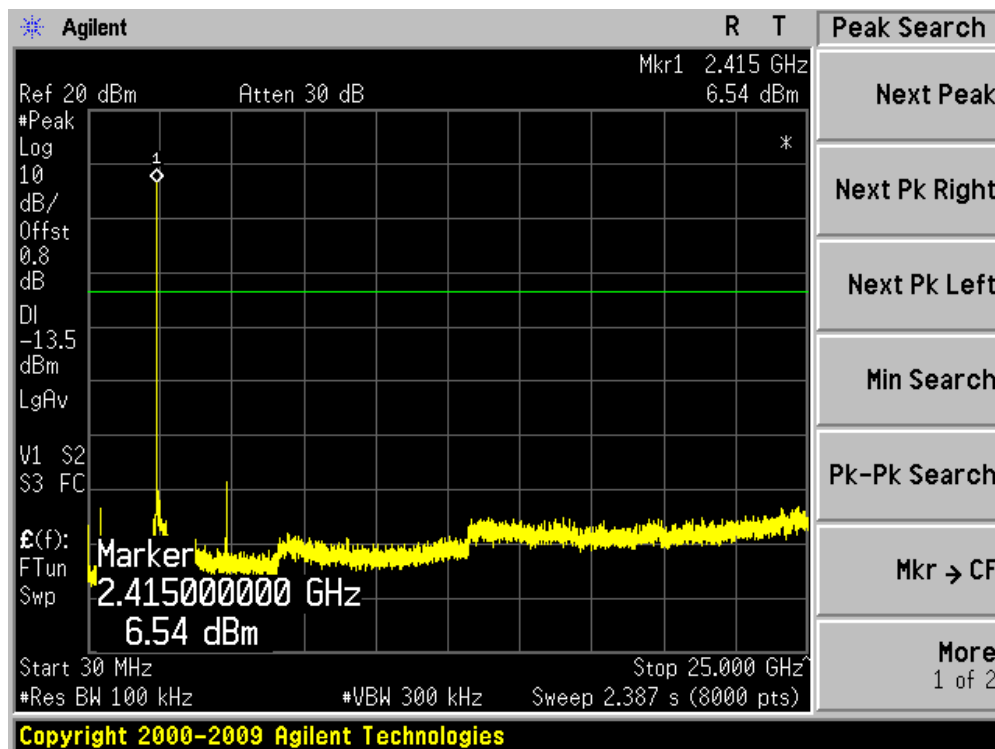
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

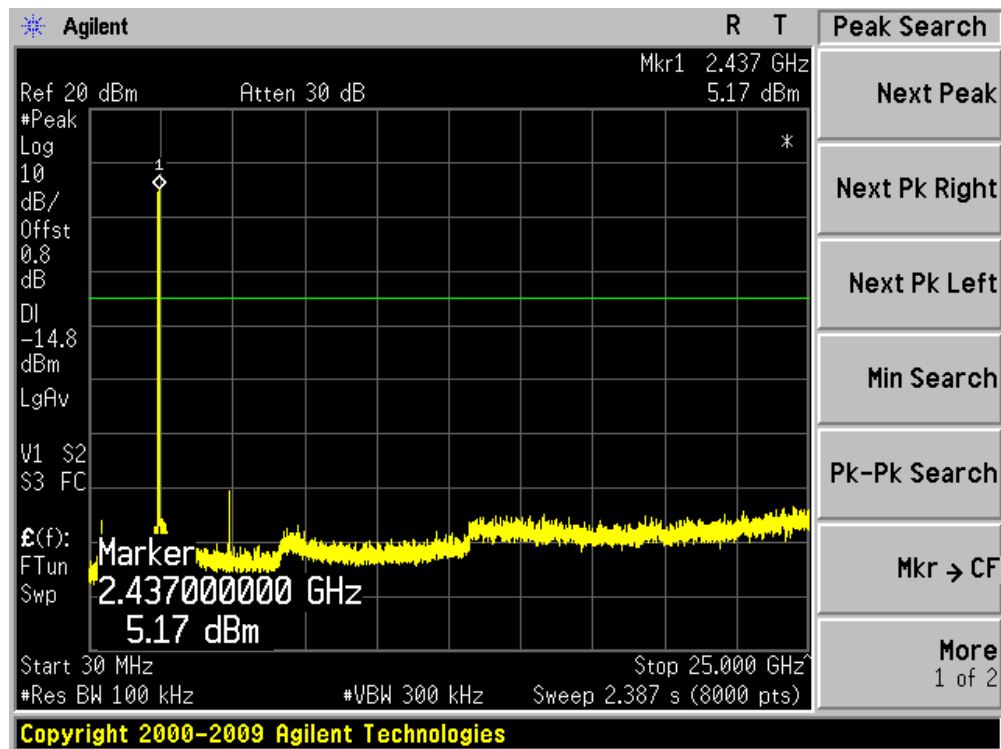
5.6. Test Result

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

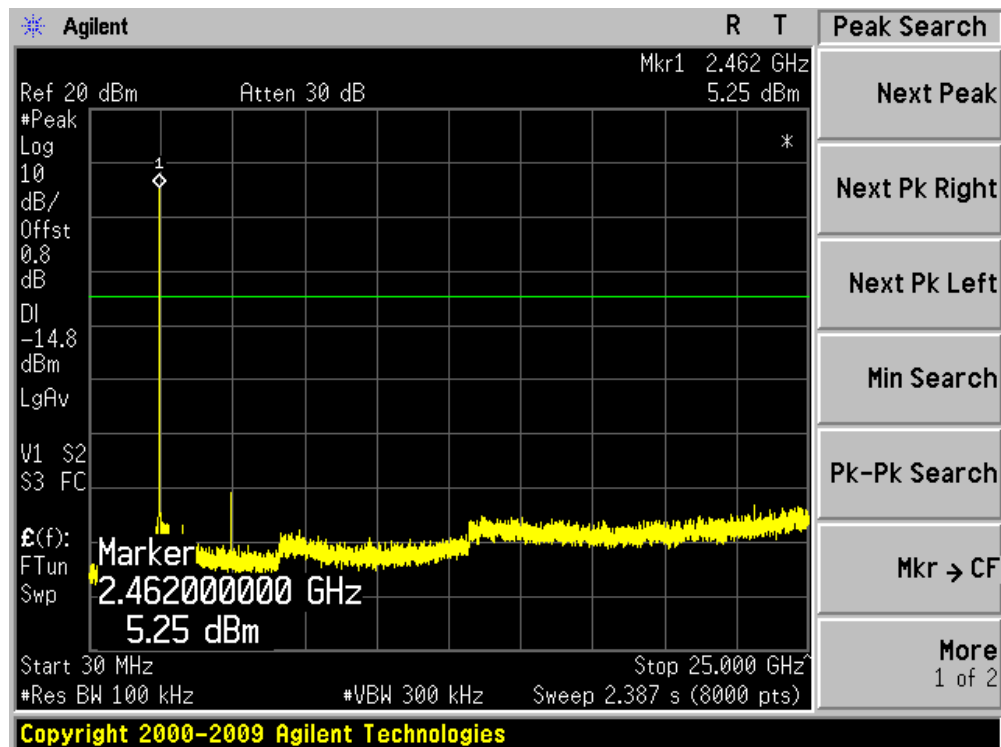
Channel 01 (2412MHz)



Channel 06 (2437MHz)

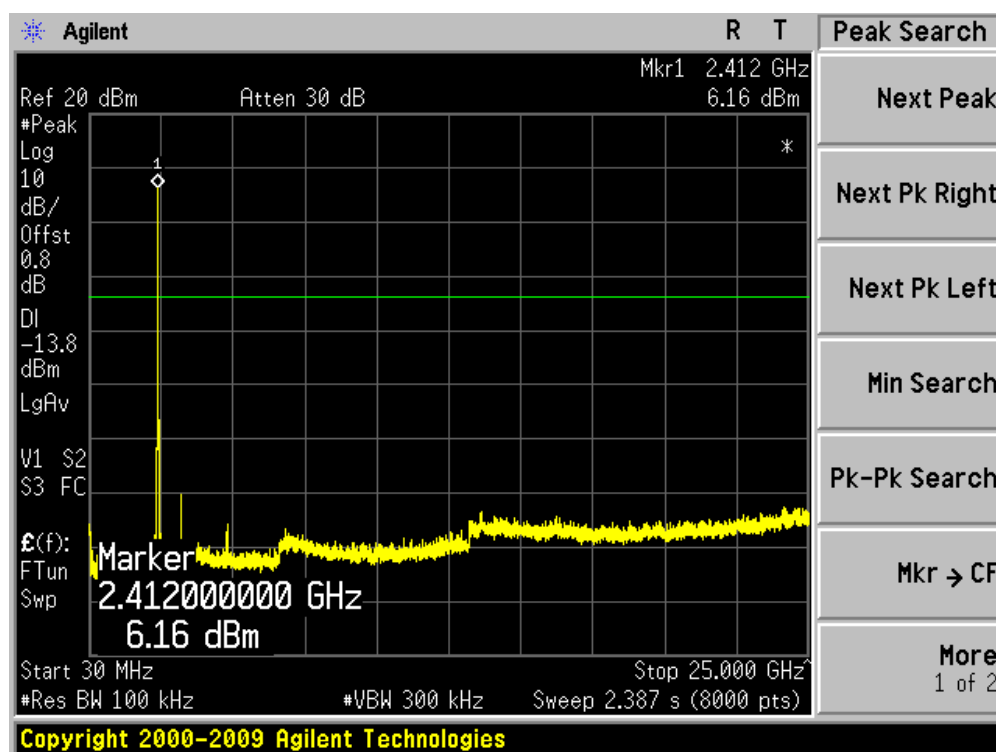


Channel 11 (2462MHz)

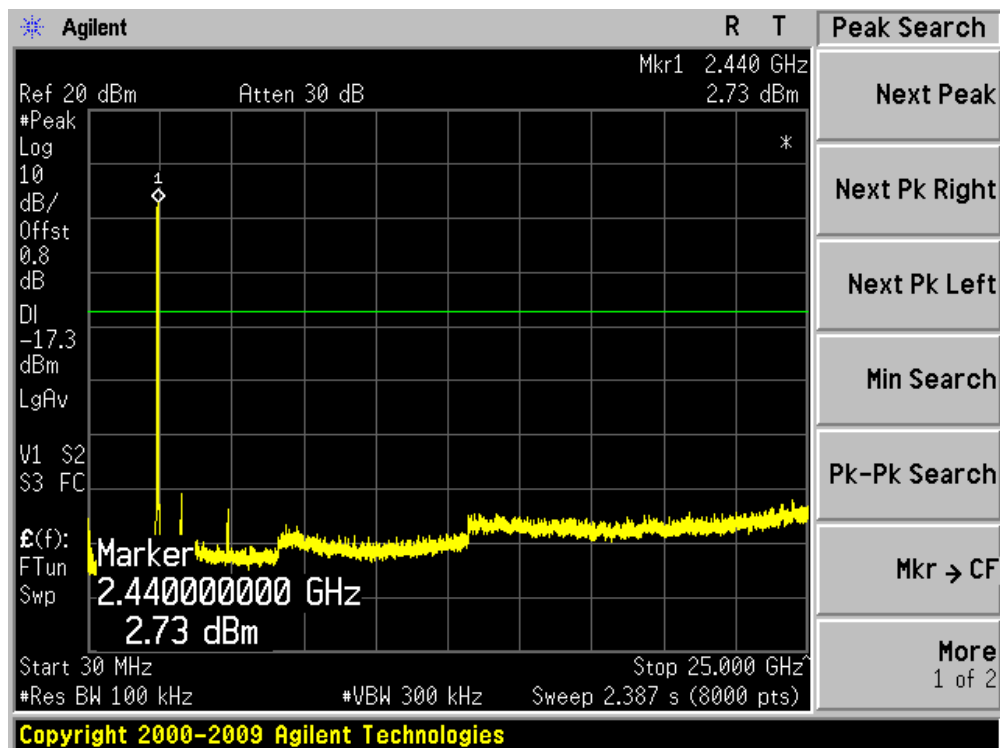


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g

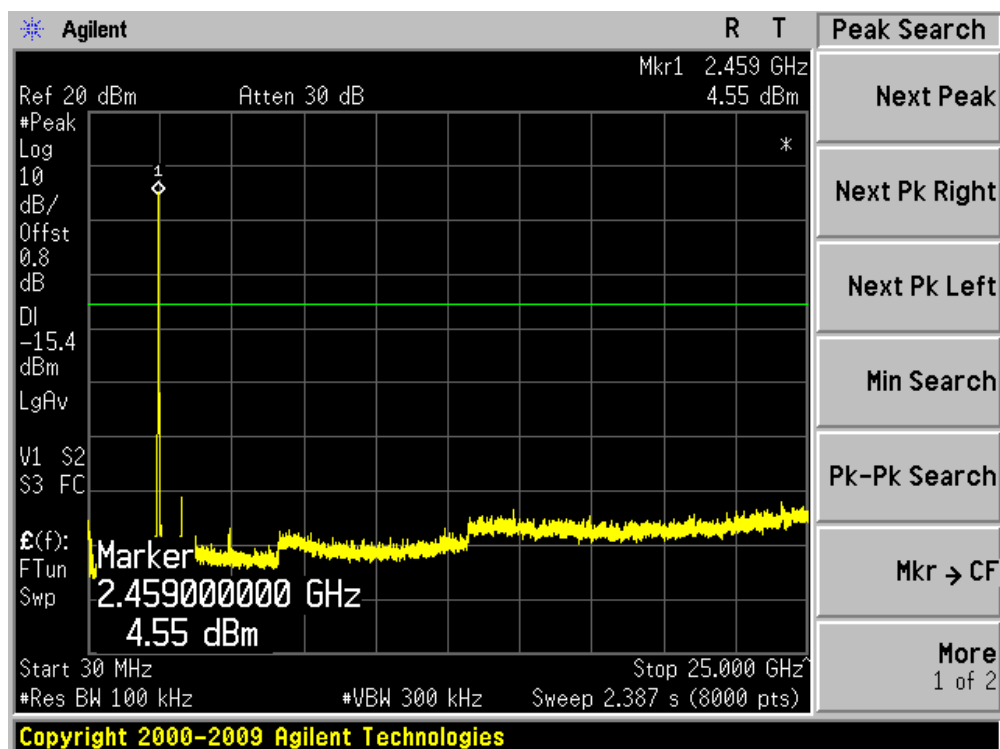
Channel 01 (2412MHz)



Channel 06 (2437MHz)

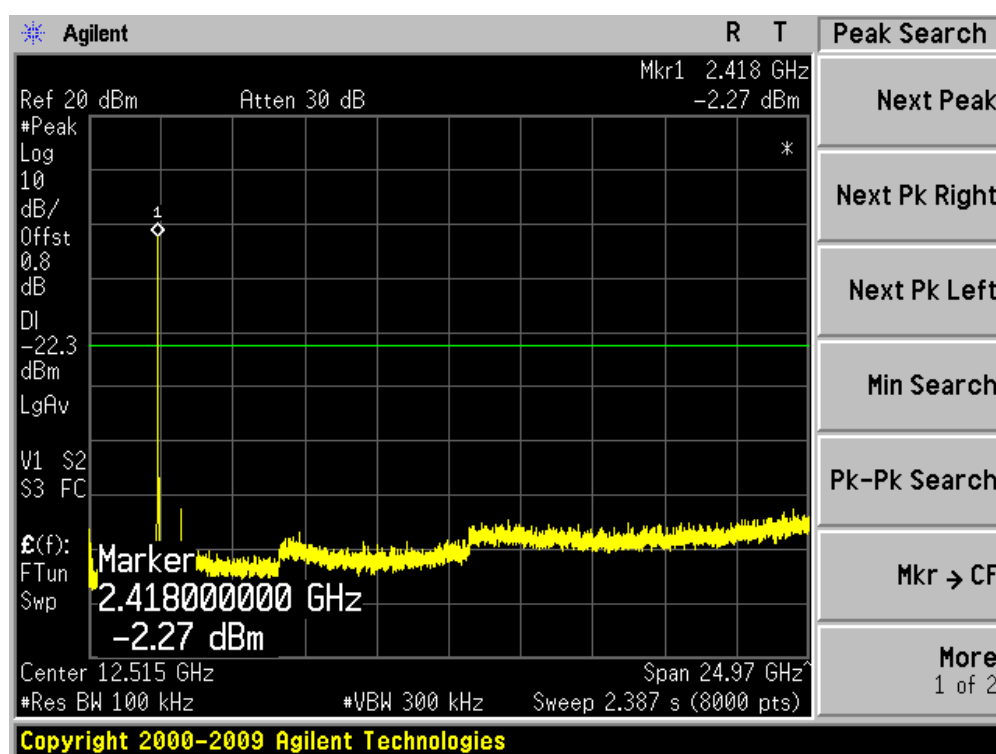


Channel 11 (2462MHz)

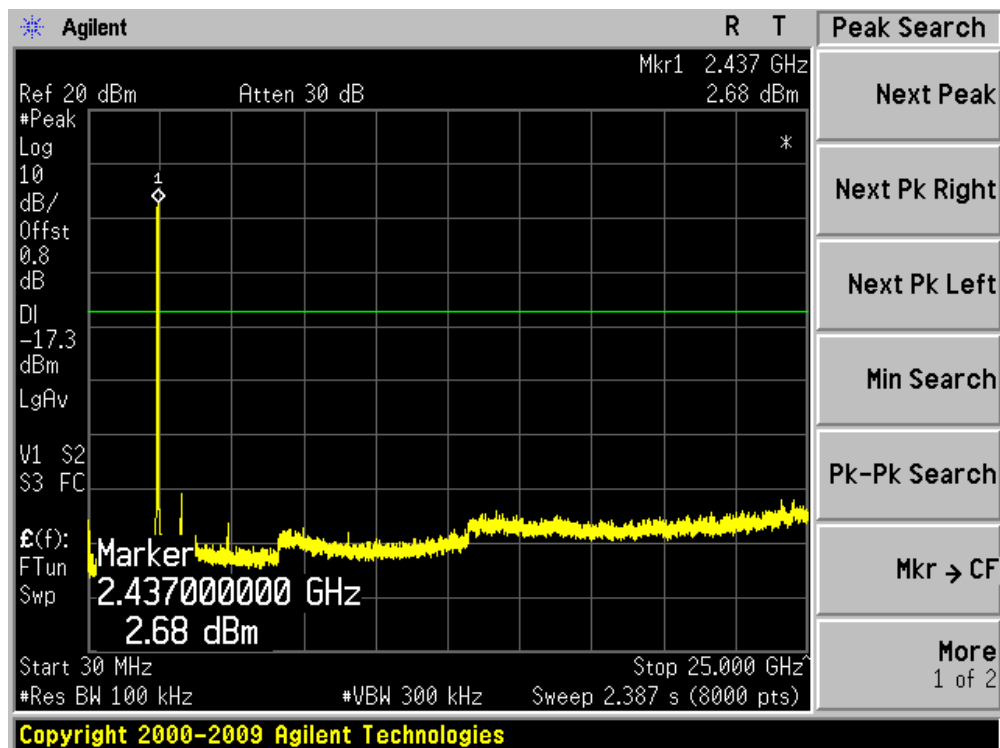


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

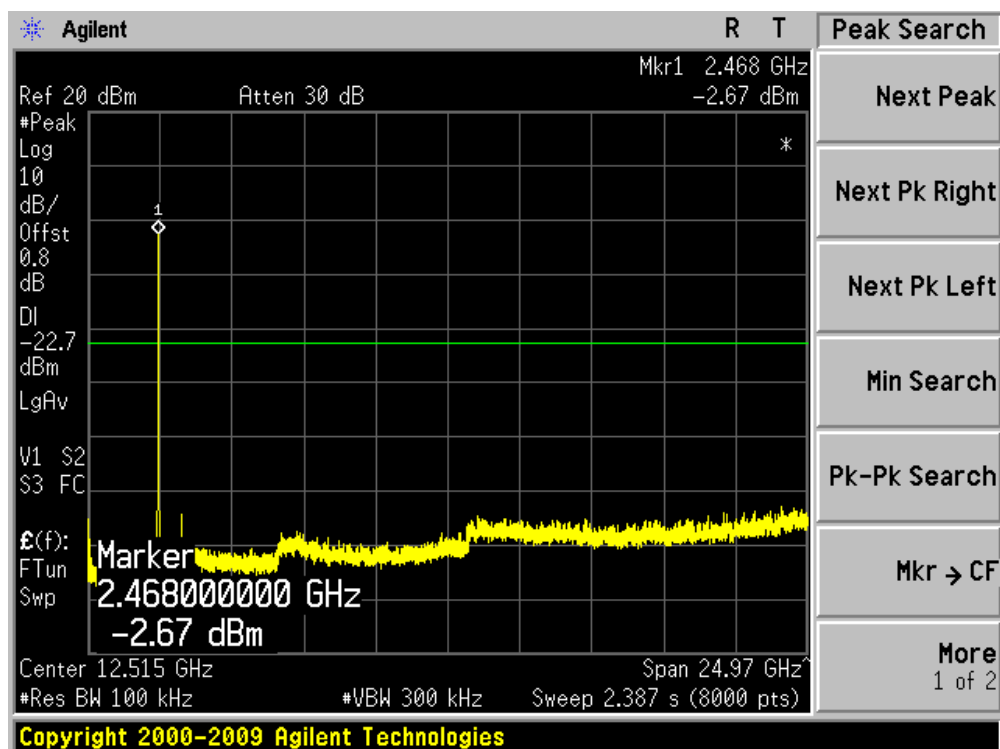
Channel 01 (2412MHz)



Channel 06 (2437MHz)

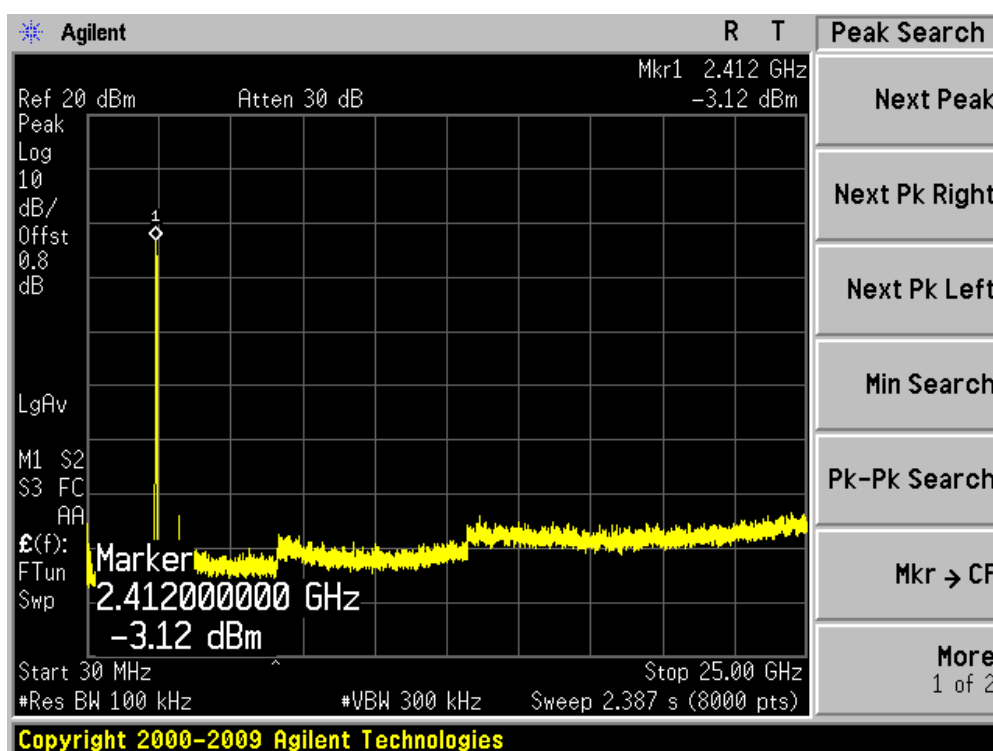


Channel 11 (2462MHz)

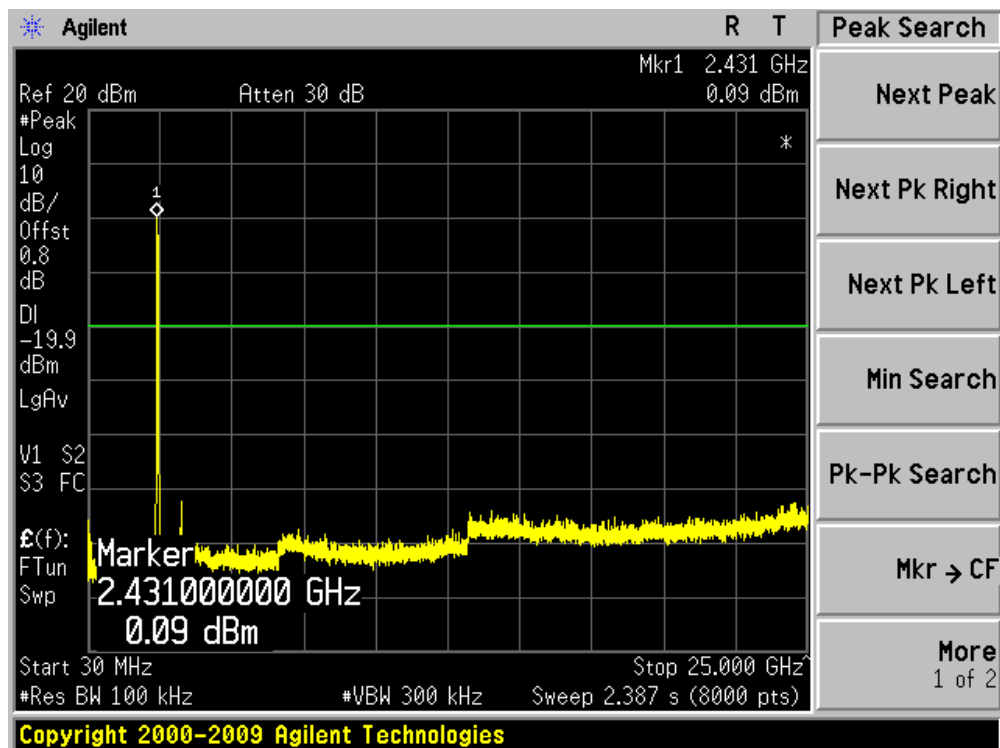


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

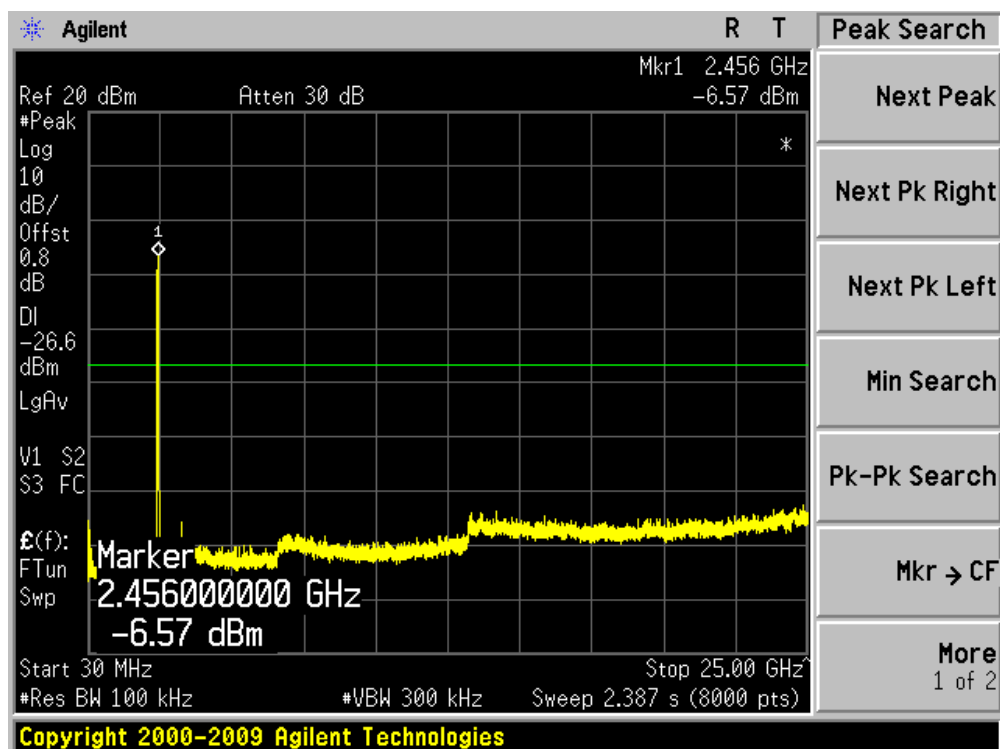
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

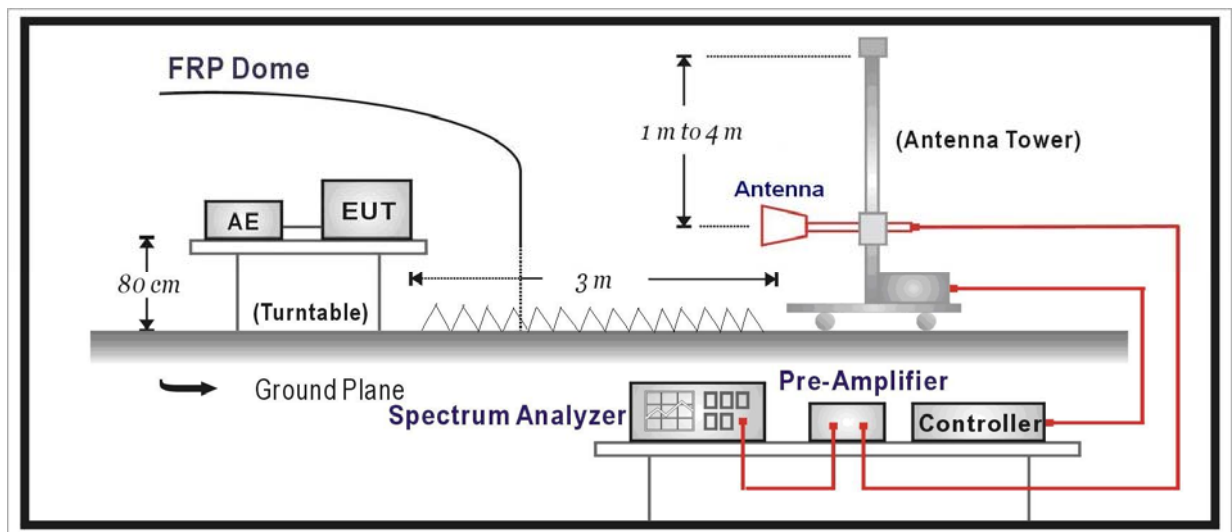
☒ Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2010.04.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2010.06.11
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: 2009 and tested according to ANSI C63.10: 2009 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: 2009 on radiated measurement.

6.5. Uncertainty

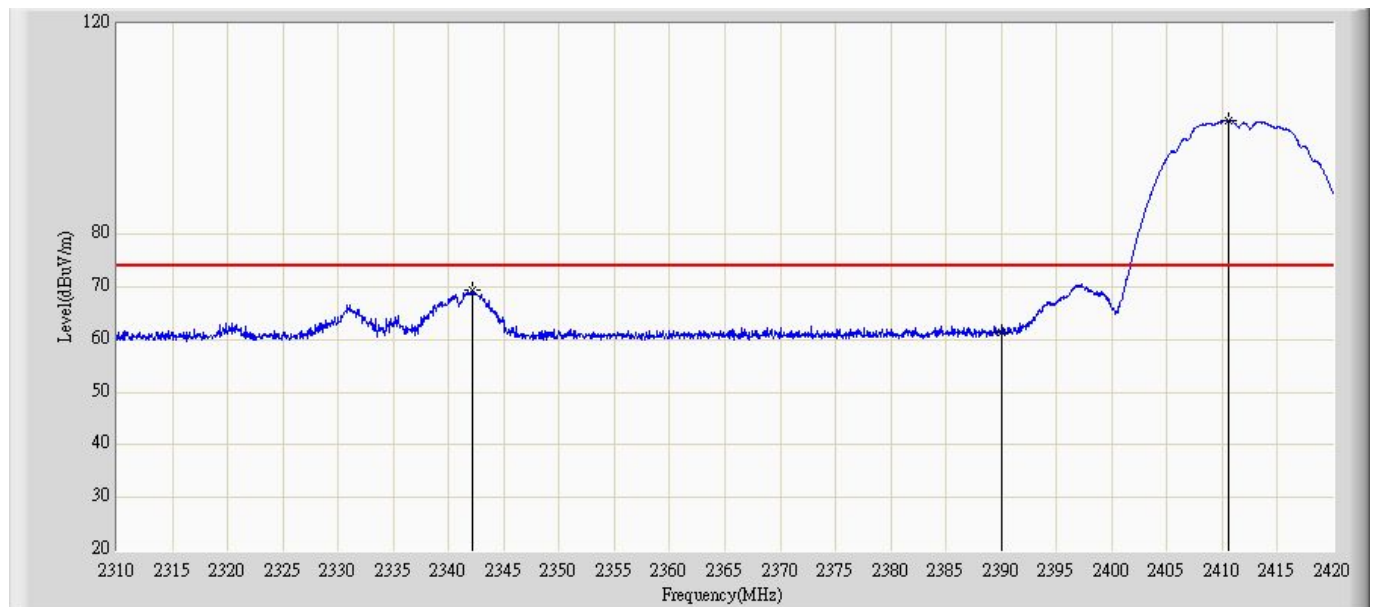
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

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

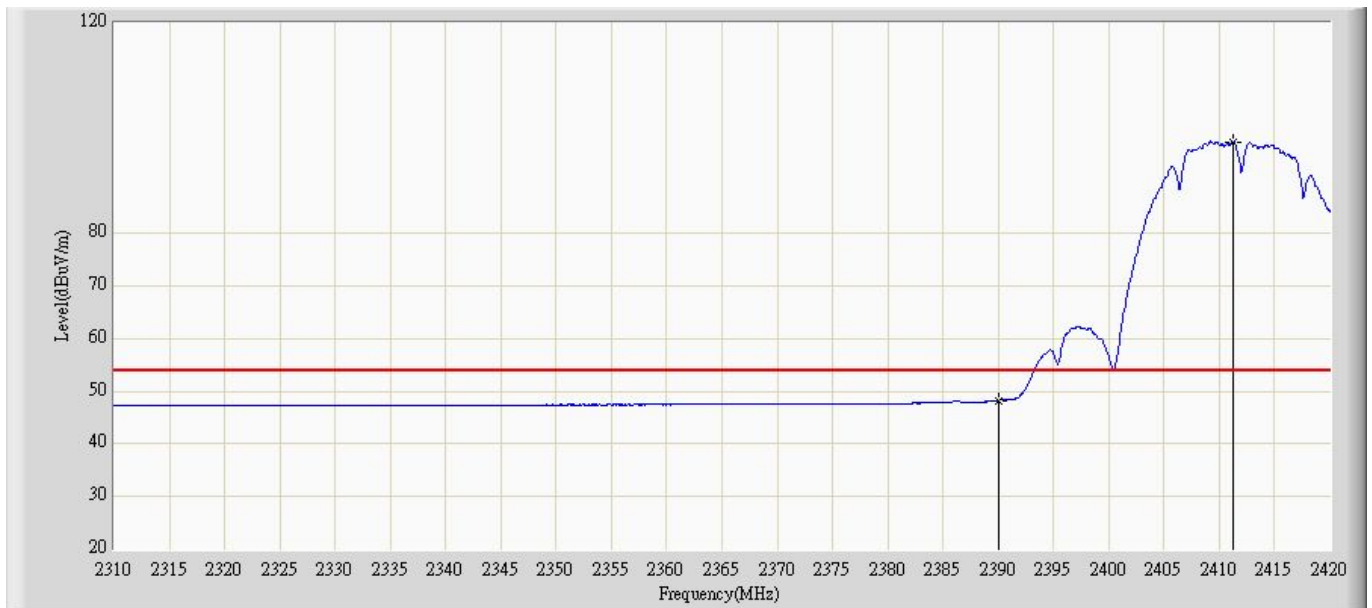
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Profile: 108S013R	Page No.: 41
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:35
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	



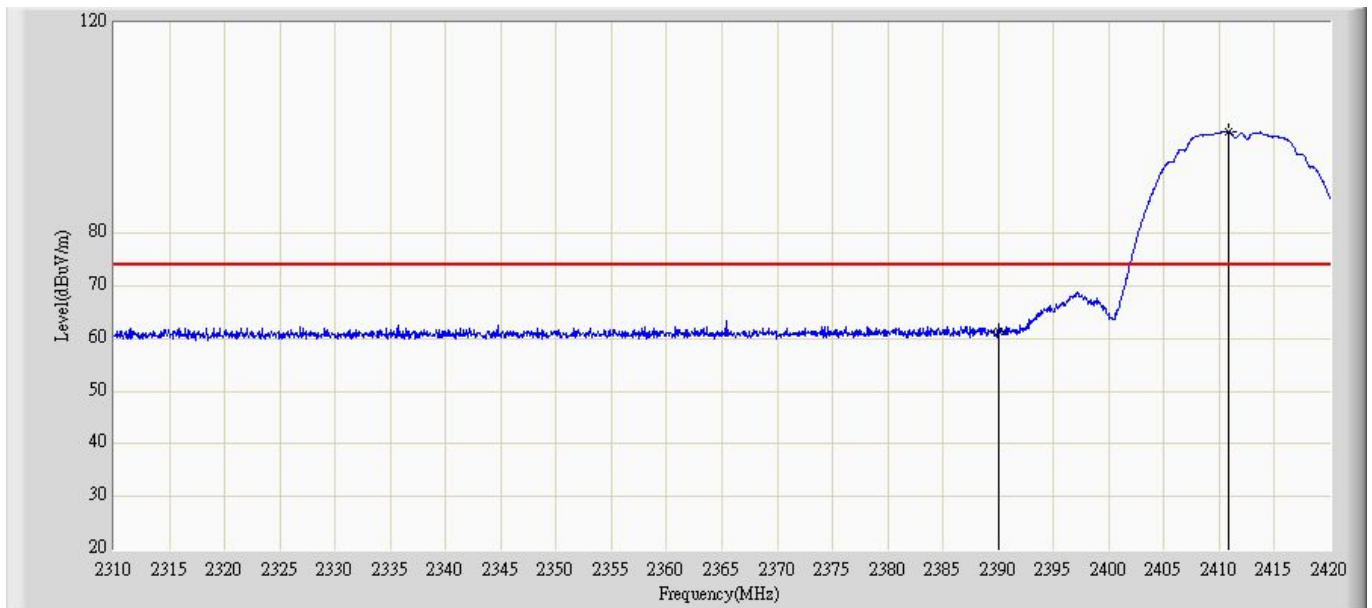
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2342.175	69.421	38.472	-4.579	74.000	30.948	PK
2		2390.000	61.261	30.349	-12.739	74.000	30.911	PK
3	*	2410.540	101.613	70.735	N/A	N/A	30.878	PK

Profile: 108S013R	Page No.: 42
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:39
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	



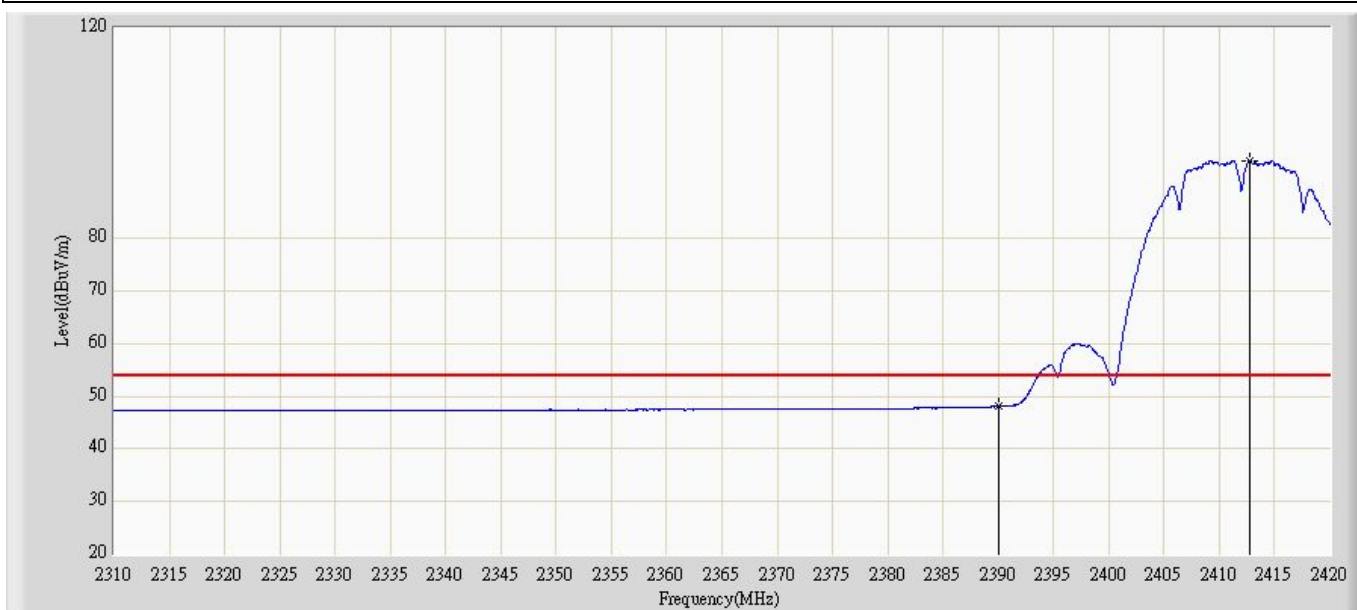
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.269	17.357	-5.731	54.000	30.911	AV
2	*	2411.310	97.313	66.437	N/A	N/A	30.876	AV

Profile: 108S013R	Page No.: 43
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:42
Limit: FCC_Part15.209_RE(3m)	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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.236	30.324	-12.764	74.000	30.911	PK
2	*	2410.815	99.249	68.372	N/A	N/A	30.877	PK

Profile: 108S013R	Page No.: 44
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:44
Limit: FCC_Part15.209_RE(3m)	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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.108	17.196	-5.892	54.000	30.911	AV
2	*	2412.685	94.711	63.840	N/A	N/A	30.871	AV

Profile: 108S013R	Page No.: 45
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:46
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 2462MHz By 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.850	105.285	74.245	N/A	N/A	31.040	PK
2		2483.500	61.878	30.944	-12.122	74.000	30.934	PK

Profile: 108S013R	Page No.: 46
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:48
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 2462MHz By 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.300	100.634	69.598	N/A	N/A	31.036	AV
2		2483.500	48.641	17.707	-5.359	54.000	30.934	AV

Profile: 108S013R	Page No.: 47
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:49
Limit: FCC_Part15.209_RE(3m)	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	



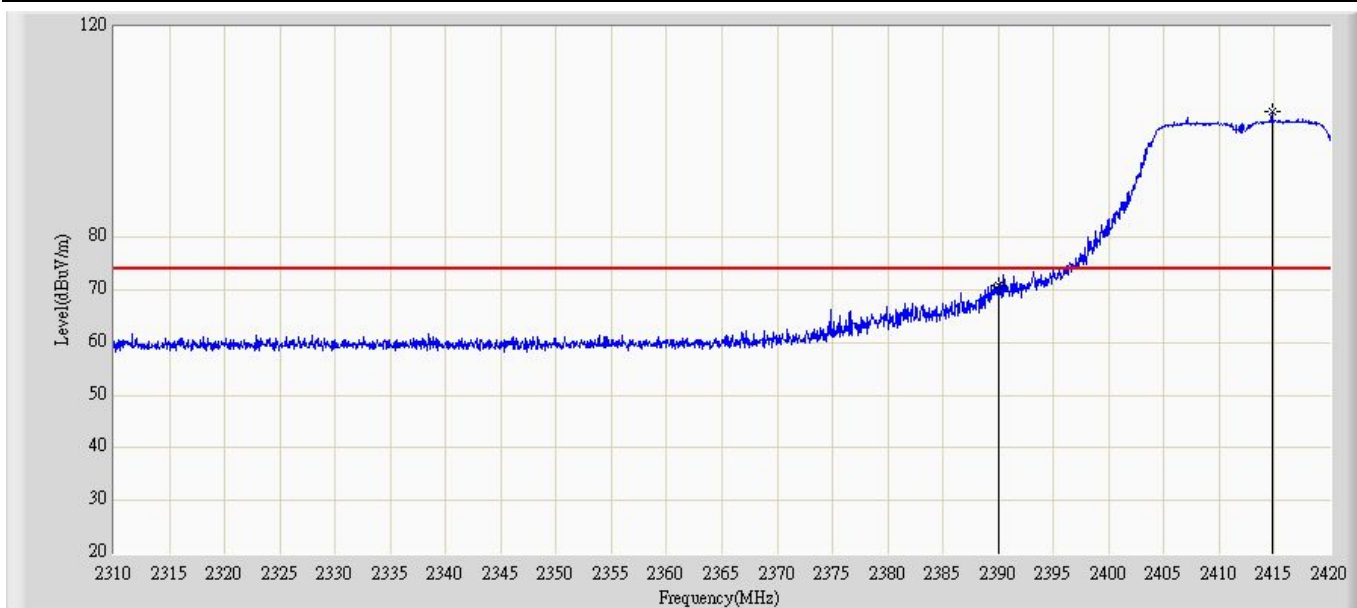
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.100	104.403	73.362	N/A	N/A	31.041	PK
2		2483.500	62.208	31.274	-11.792	74.000	30.934	PK

Profile: 108S013R	Page No.: 48
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:51
Limit: FCC_Part15.209_RE(3m)	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	



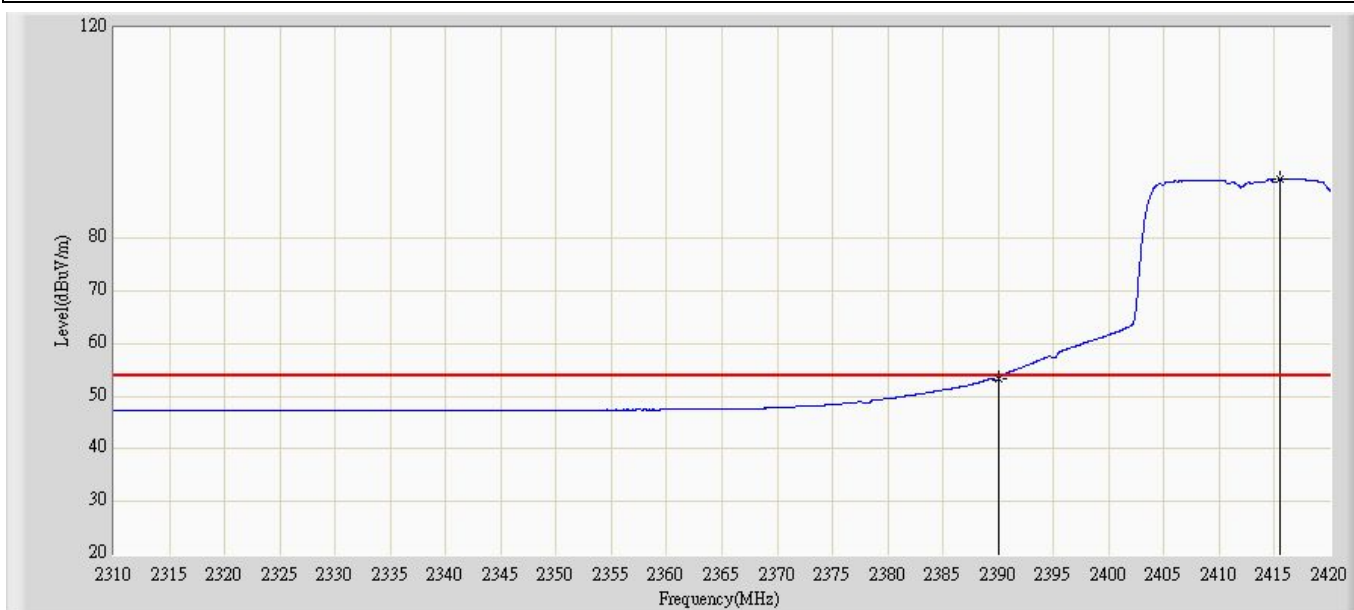
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.200	100.005	68.970	N/A	N/A	31.035	AV
2		2483.500	48.593	17.659	-5.407	54.000	30.934	AV

Profile: 108S013R	Page No.: 49
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:53
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	



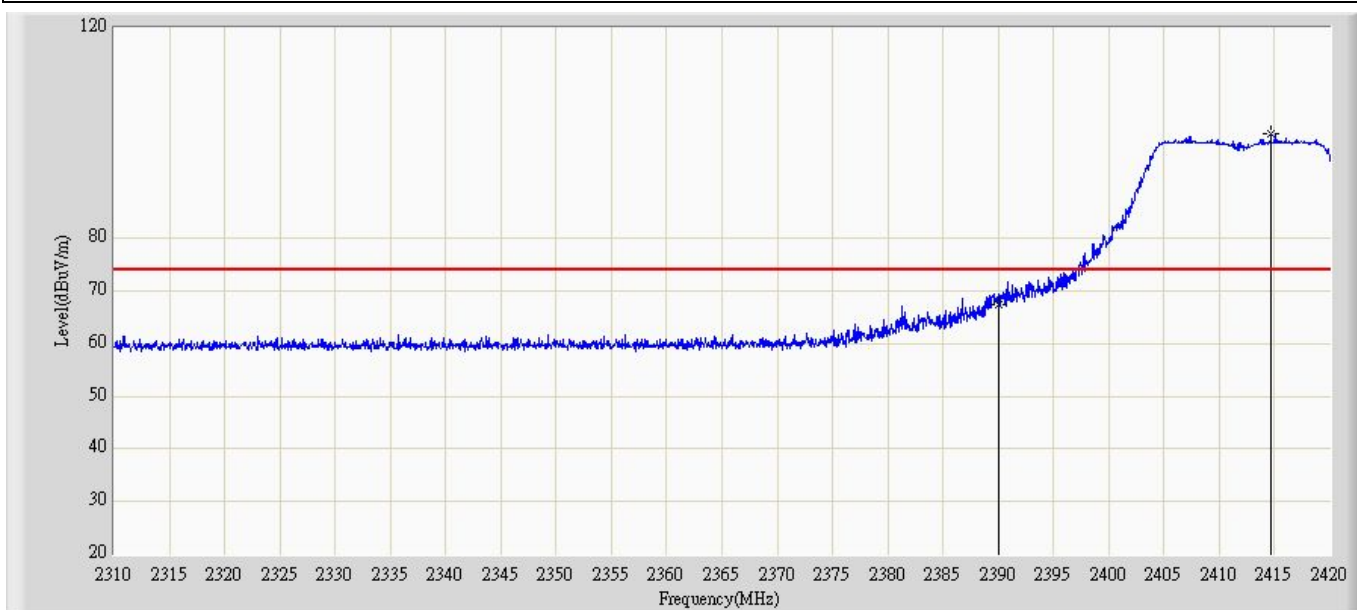
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	70.958	40.046	-3.042	74.000	30.911	PK
2	*	2414.775	103.840	72.975	N/A	N/A	30.865	PK

Profile: 108S013R	Page No.: 50
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:57
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	



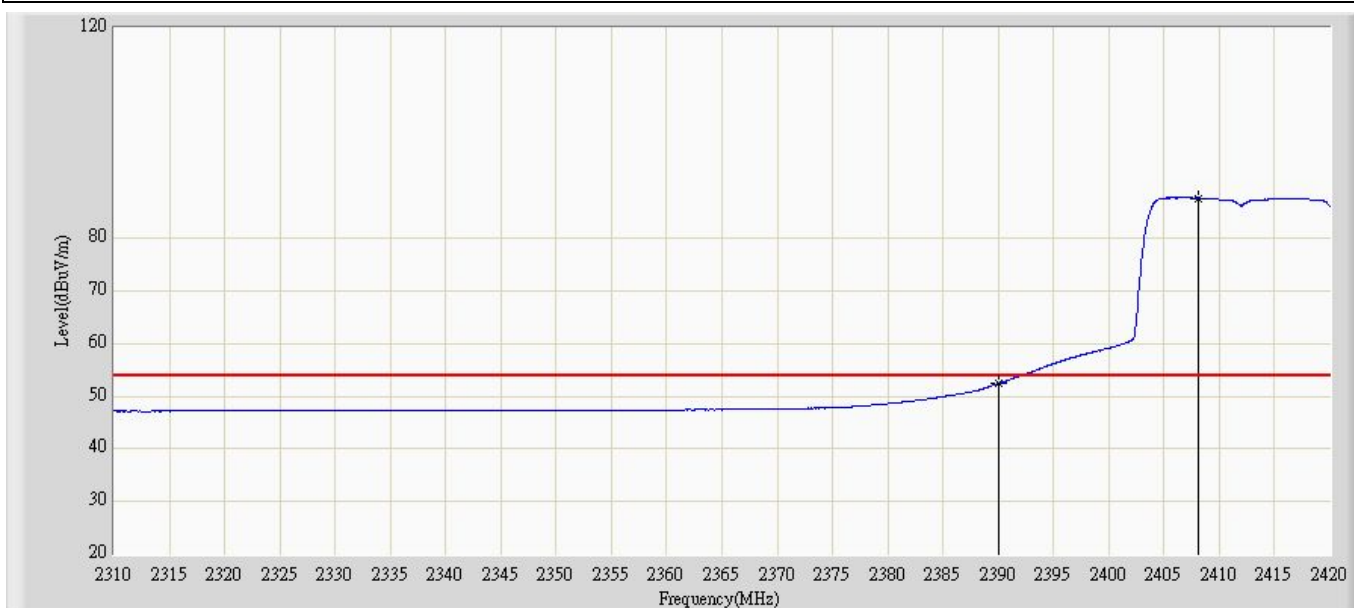
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.399	22.487	-0.601	54.000	30.911	AV
2	*	2415.490	91.282	60.420	N/A	N/A	30.862	AV

Profile: 108S013R	Page No.: 51
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 12:02
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	



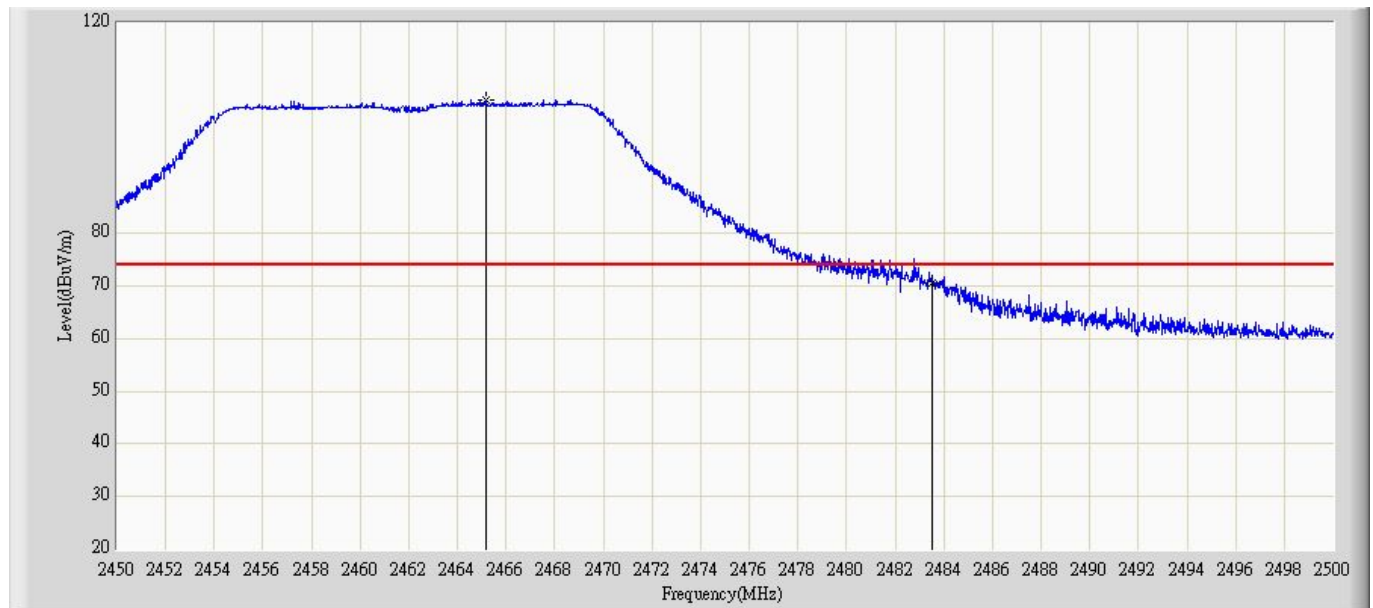
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.480	36.568	-6.520	74.000	30.911	PK
2	*	2414.665	99.840	68.975	N/A	N/A	30.865	PK

Profile: 108S013R	Page No.: 52
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 12:04
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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.393	21.481	-1.607	54.000	30.911	AV
2	*	2408.065	87.634	56.750	N/A	N/A	30.884	AV

Profile: 108S013R	Page No.: 53
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 13:19
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 2462MHz By 802.11g	



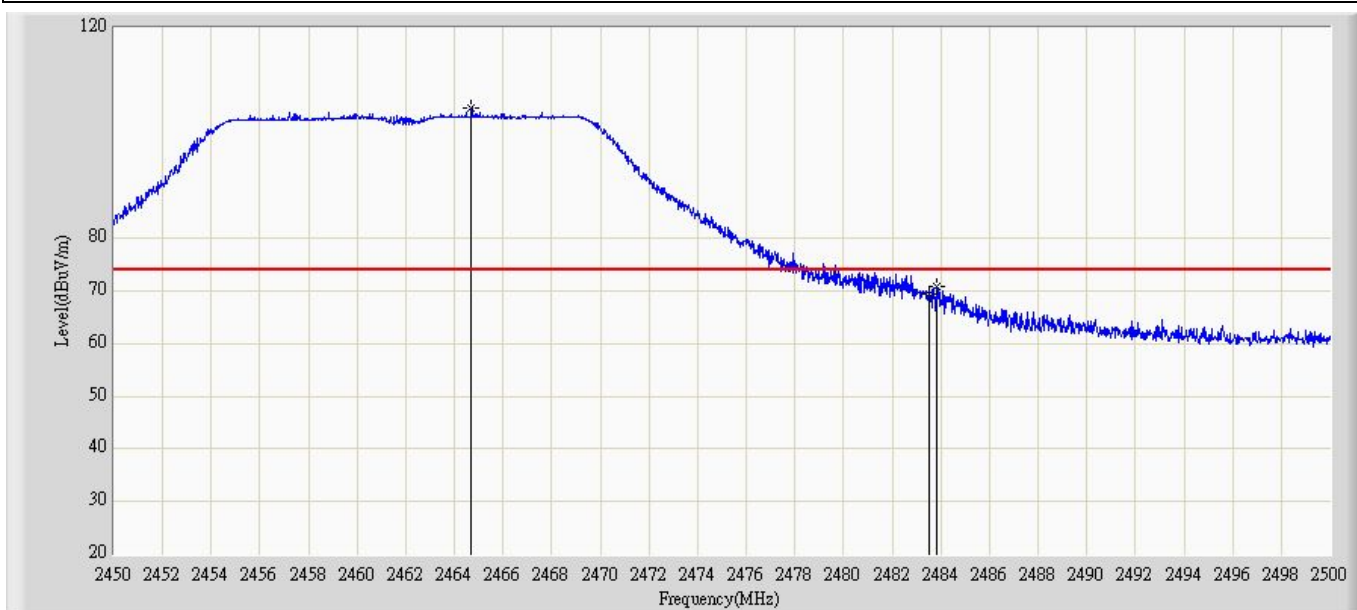
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.175	105.327	74.300	N/A	N/A	31.027	PK
2		2483.500	70.449	39.515	-3.551	74.000	30.934	PK

Profile: 108S013R	Page No.: 54
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 13:34
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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2469.075	93.512	62.503	N/A	N/A	31.010	AV
2		2483.500	52.991	22.057	-1.009	54.000	30.934	AV

Profile: 108S013R	Page No.: 55
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 13:36
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	



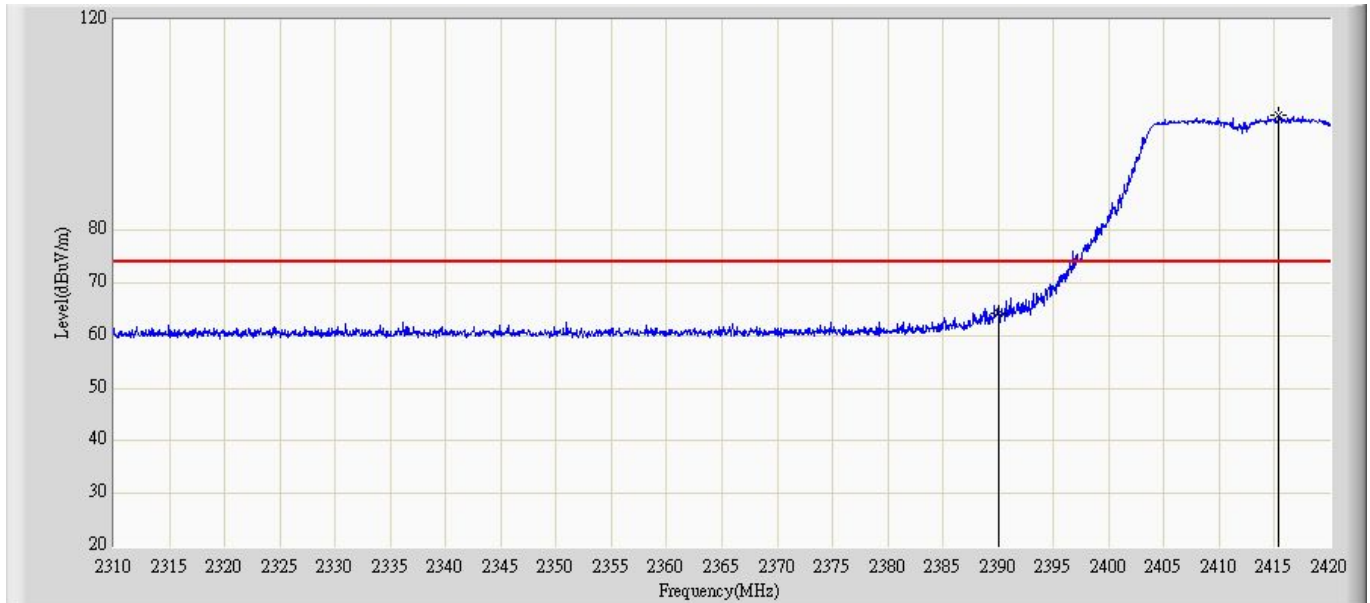
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.675	104.731	73.702	N/A	N/A	31.029	PK
2		2483.500	69.474	38.540	-4.526	74.000	30.934	PK
3		2483.850	70.895	39.963	-3.105	74.000	30.932	PK

Profile: 108S013R	Page No.: 56
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 13:38
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	



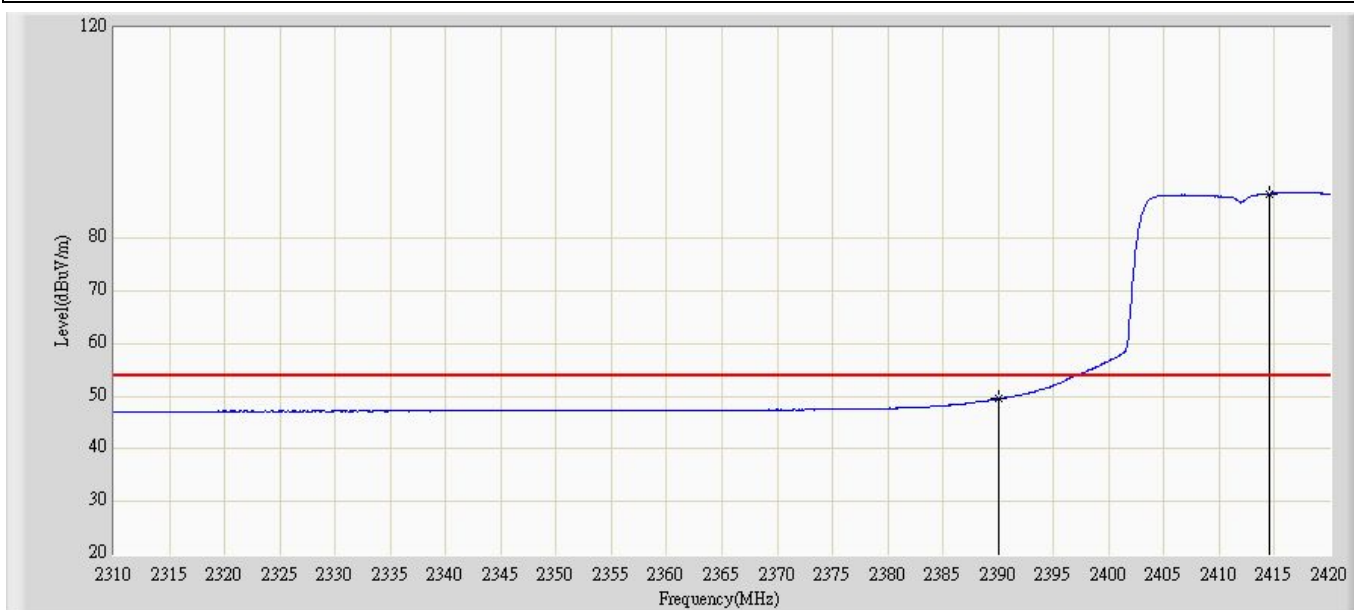
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.275	92.221	61.186	N/A	N/A	31.035	AV
2		2483.500	52.277	21.343	-1.723	54.000	30.934	AV

Profile: 108S013R	Page No.: 93
Engineer: Sunny	
Site: AC5	Time: 2010/08/21 - 01:27
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 2412MHz By 802.11n(20)	



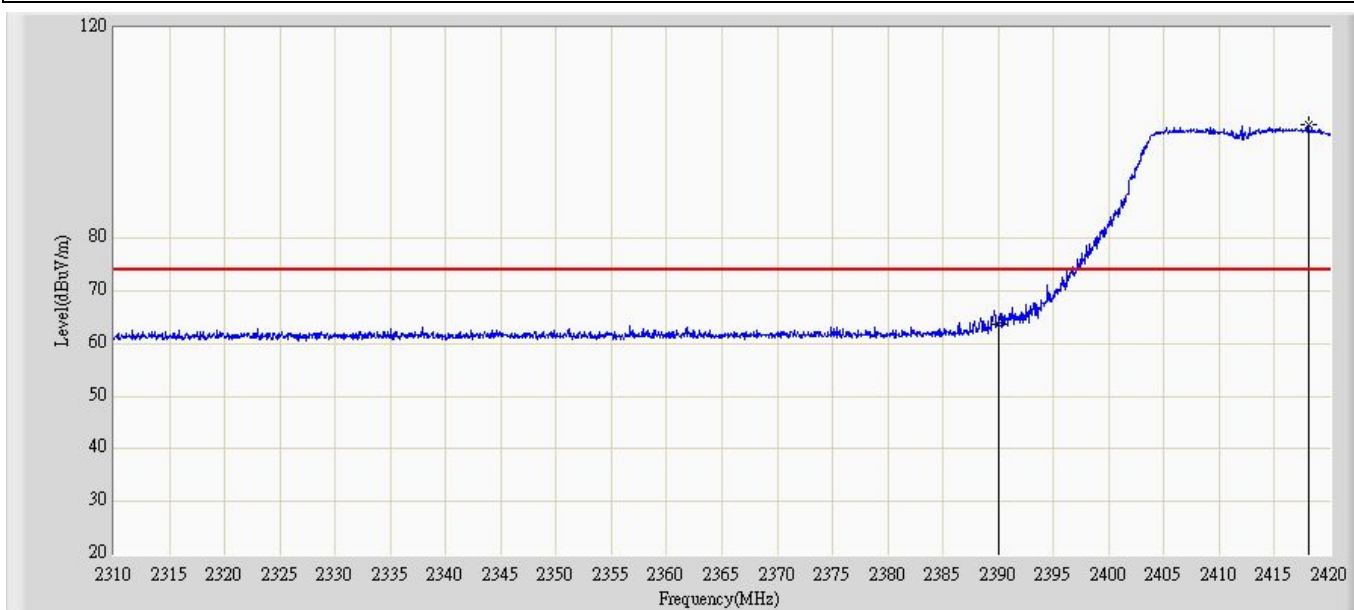
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	64.365	33.453	-9.635	74.000	30.911	PK
2	*	2415.380	101.892	71.029	N/A	N/A	30.862	PK

Profile: 108S013R	Page No.: 94
Engineer: Sunny	
Site: AC5	Time: 2010/08/21 - 01:30
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 802.11n(20)	



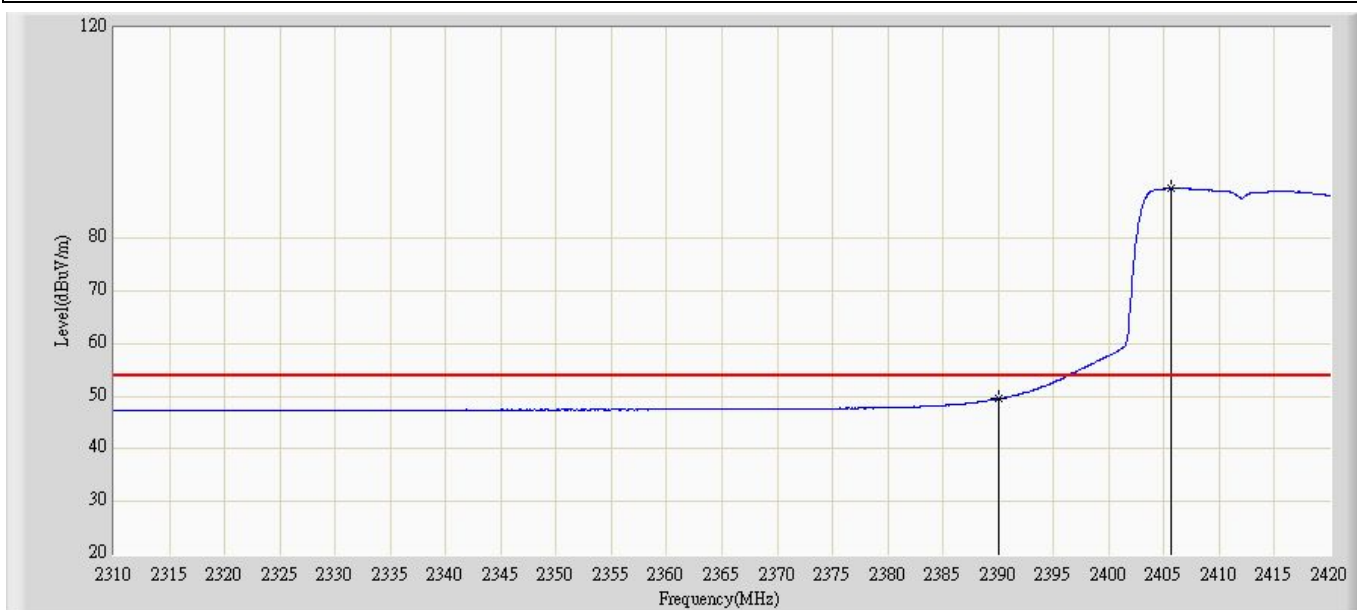
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.489	18.577	-4.511	54.000	30.911	AV
2	*	2414.555	88.490	57.625	N/A	N/A	30.865	AV

Profile: 108S013R	Page No.: 95
Engineer: Sunny	
Site: AC5	Time: 2010/08/21 - 01:30
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 802.11n(20)	



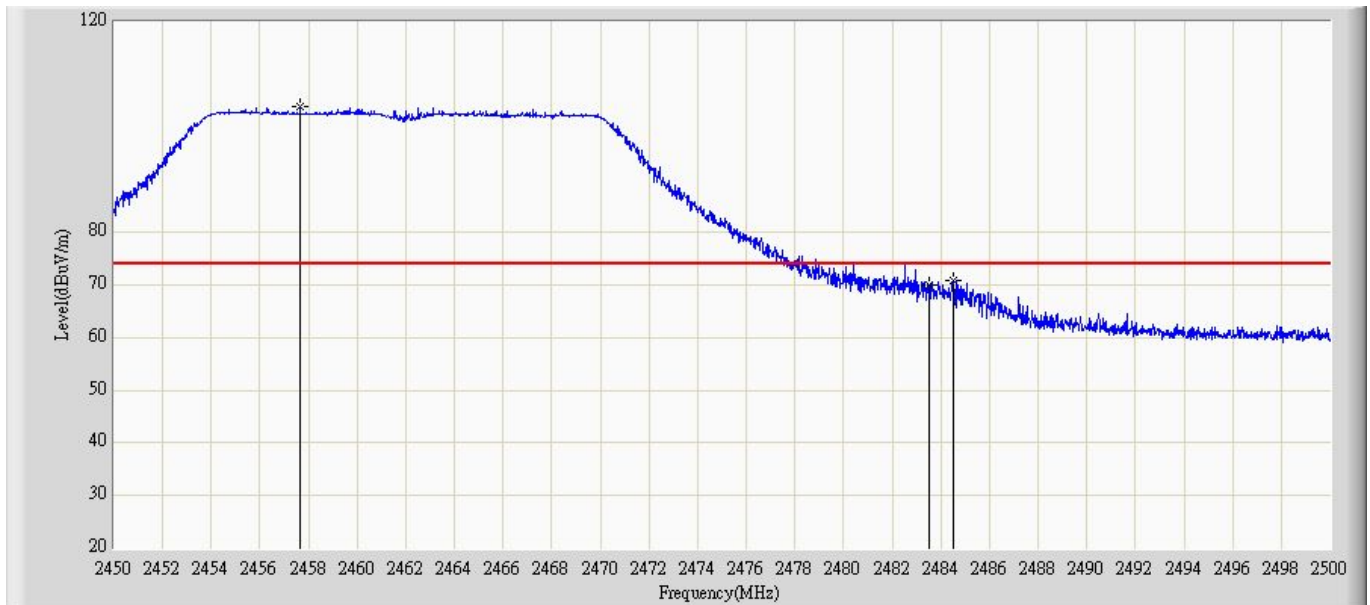
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	63.708	32.796	-10.292	74.000	30.911	PK
2	*	2418.020	101.638	70.784	N/A	N/A	30.854	PK

Profile: 108S013R	Page No.: 96
Engineer: Sunny	
Site: AC5	Time: 2010/08/21 - 01:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2 :Transmit at channel 2412MHz By 802.11n(20)	



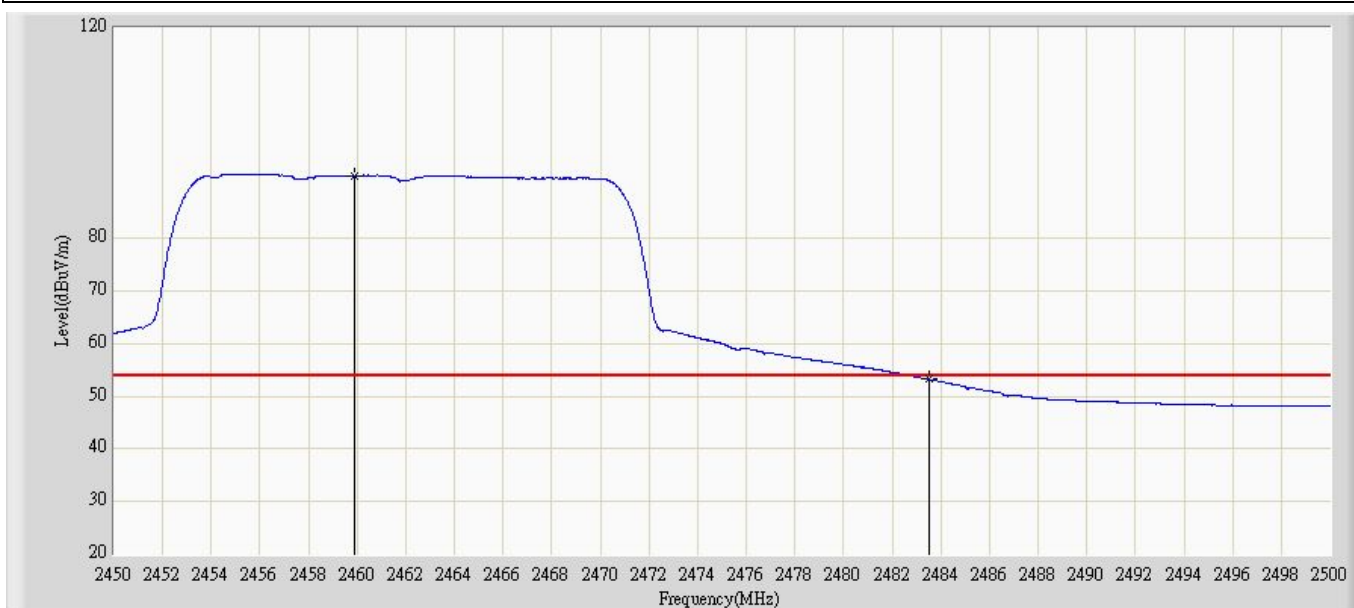
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.537	18.625	-4.463	54.000	30.911	AV
2	*	2405.645	89.488	58.599	N/A	N/A	30.889	AV

Profile: 108S013R	Page No.: 29
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 10:38
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)	



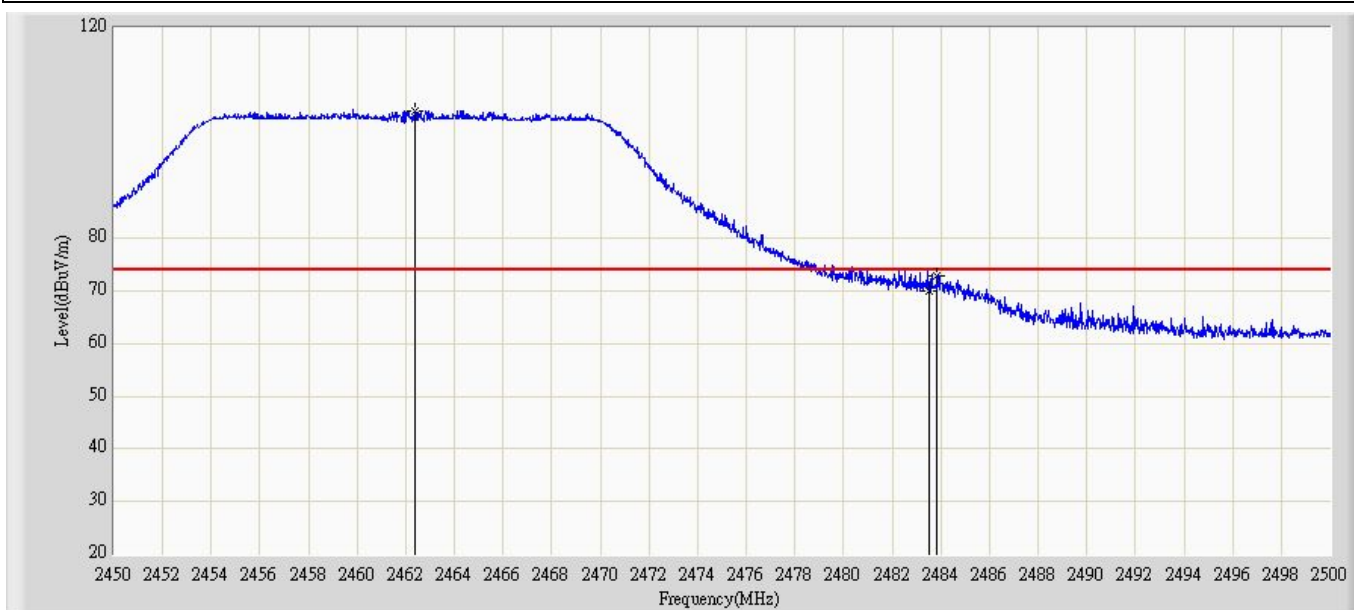
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.650	103.972	72.964	N/A	N/A	31.008	PK
2		2483.500	69.883	38.949	-4.117	74.000	30.934	PK
3		2484.500	70.959	40.032	-3.041	74.000	30.928	PK

Profile: 108S013R	Page No.: 30
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 10:40
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)	



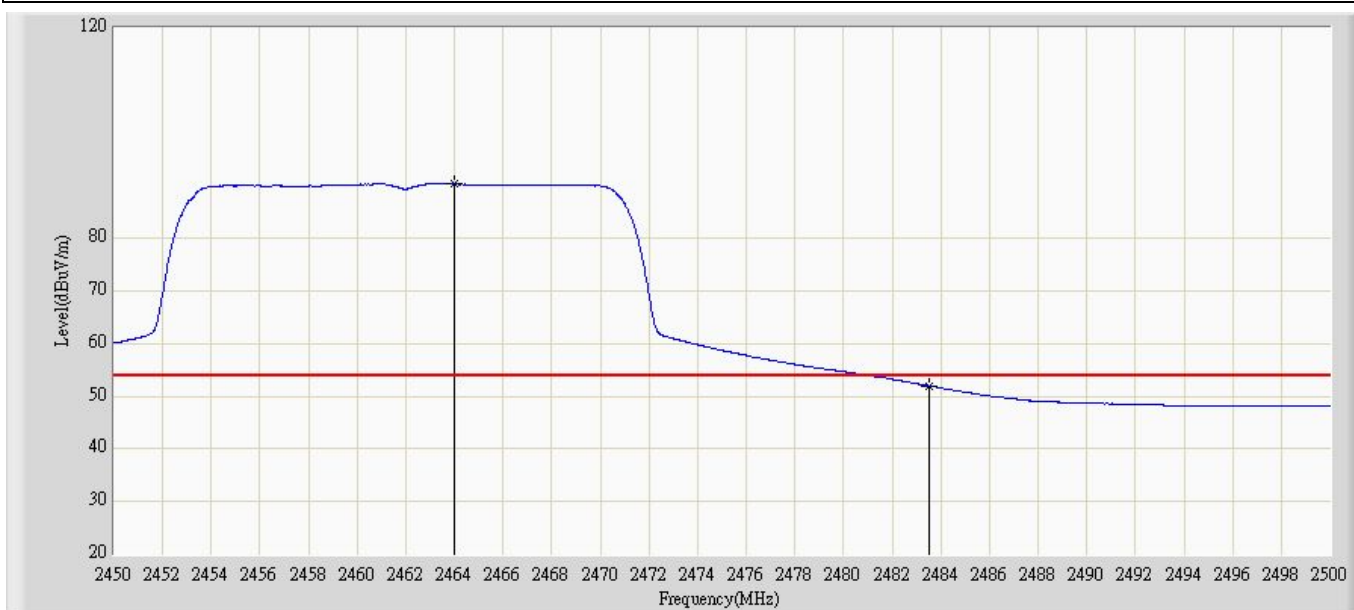
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.900	91.928	60.903	N/A	N/A	31.025	AV
2		2483.500	53.211	22.277	-0.789	54.000	30.934	AV

Profile: 108S013R	Page No.: 31
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 10:57
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)	



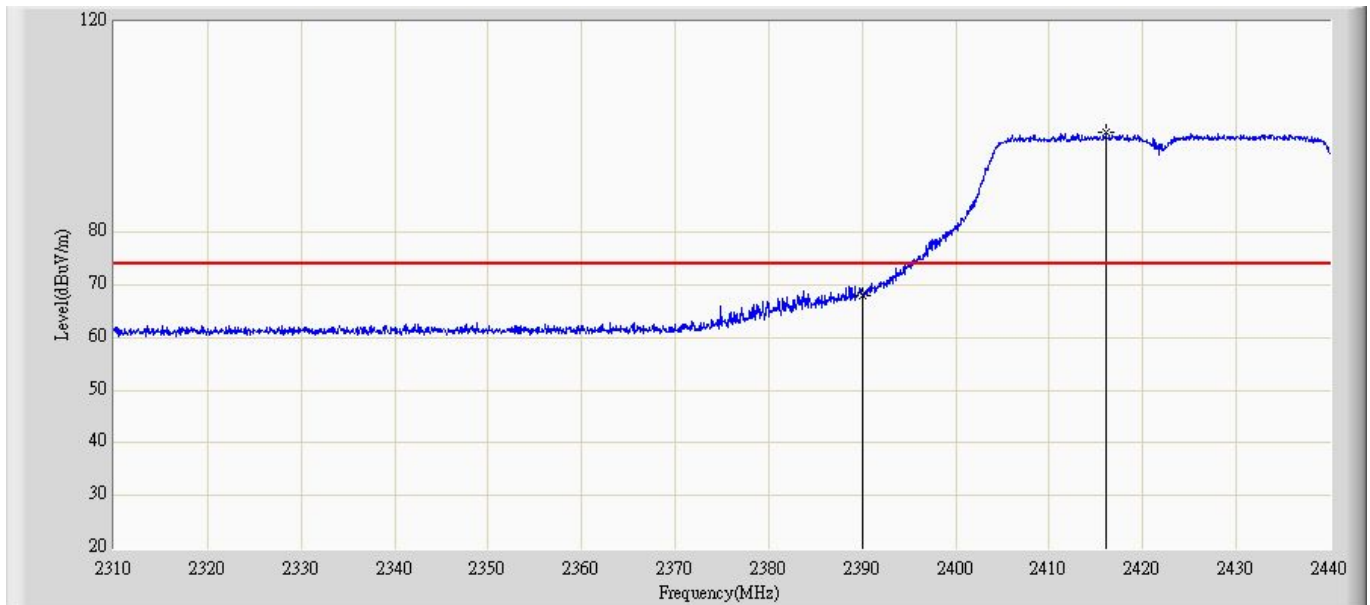
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.350	104.270	73.231	N/A	N/A	31.040	PK
2		2483.500	69.883	38.949	-4.117	74.000	30.934	PK
3		2483.825	72.743	41.811	-1.257	74.000	30.932	PK

Profile: 108S013R	Page No.: 32
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:00
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)	



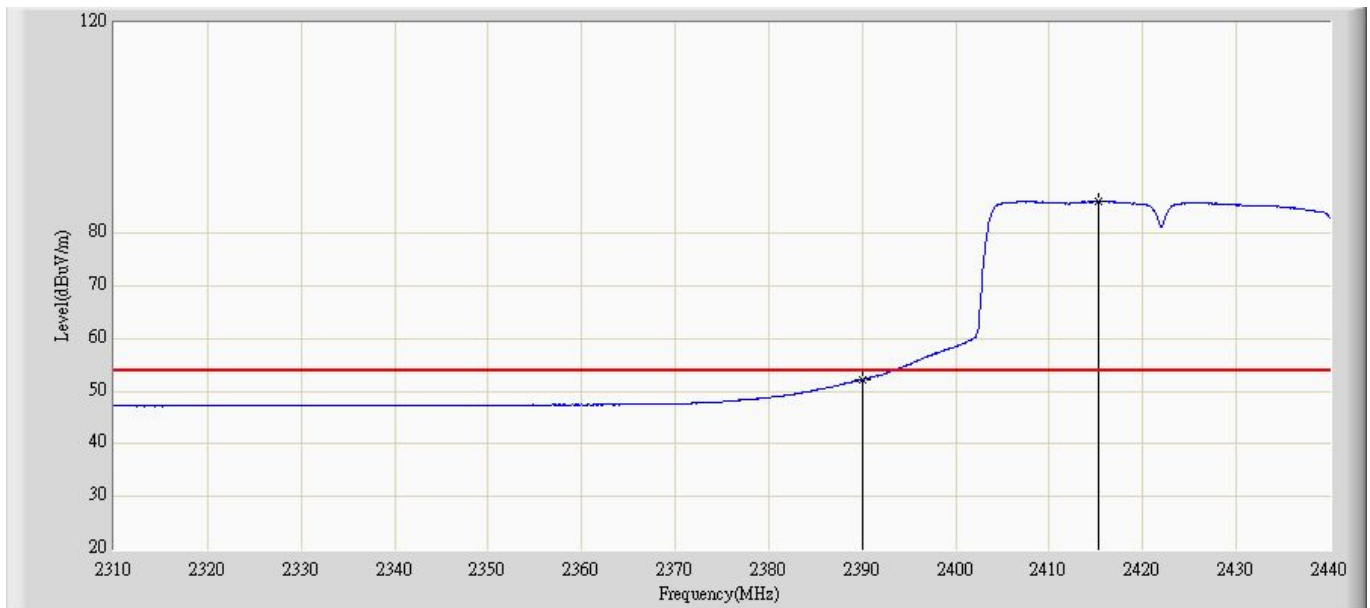
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.975	90.346	59.314	N/A	N/A	31.032	AV
2		2483.500	51.949	21.015	-2.051	54.000	30.934	AV

Profile: 108S013R	Page No.: 101
Engineer: Sunny	
Site: AC5	Time: 2010/08/24 - 09:03
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)	



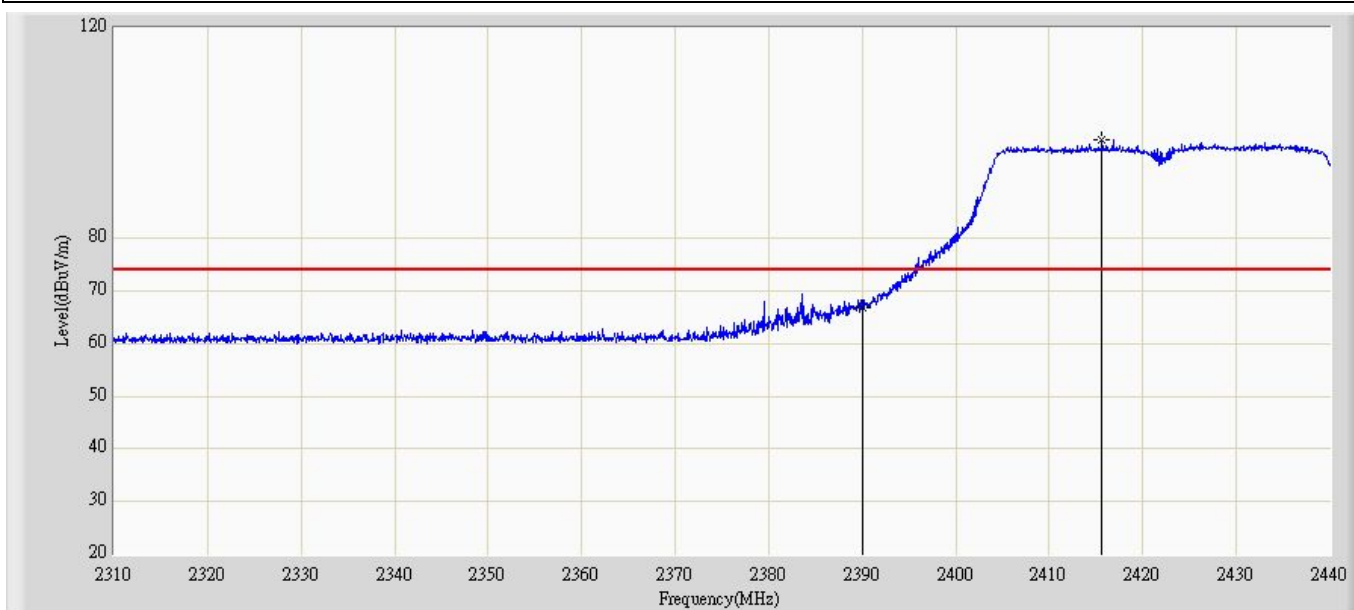
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.968	37.056	-6.032	74.000	30.911	PK
2	*	2416.080	99.008	68.148	N/A	N/A	30.860	PK

Profile: 108S013R	Page No.: 102
Engineer: Sunny	
Site: AC5	Time: 2010/08/24 - 09:10
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)	



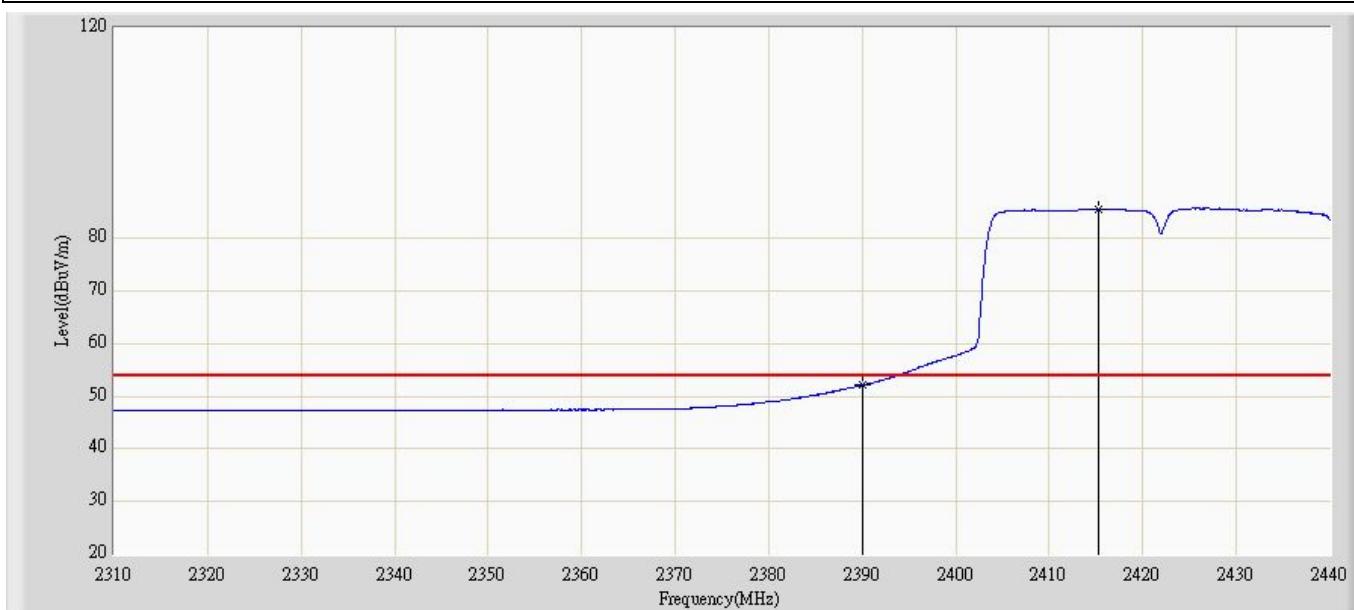
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.207	21.295	-1.793	54.000	30.911	AV
2	*	2415.300	85.999	55.136	N/A	N/A	30.862	AV

Profile: 108S013R	Page No.: 103
Engineer: Sunny	
Site: AC5	Time: 2010/08/24 - 09:10
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)	



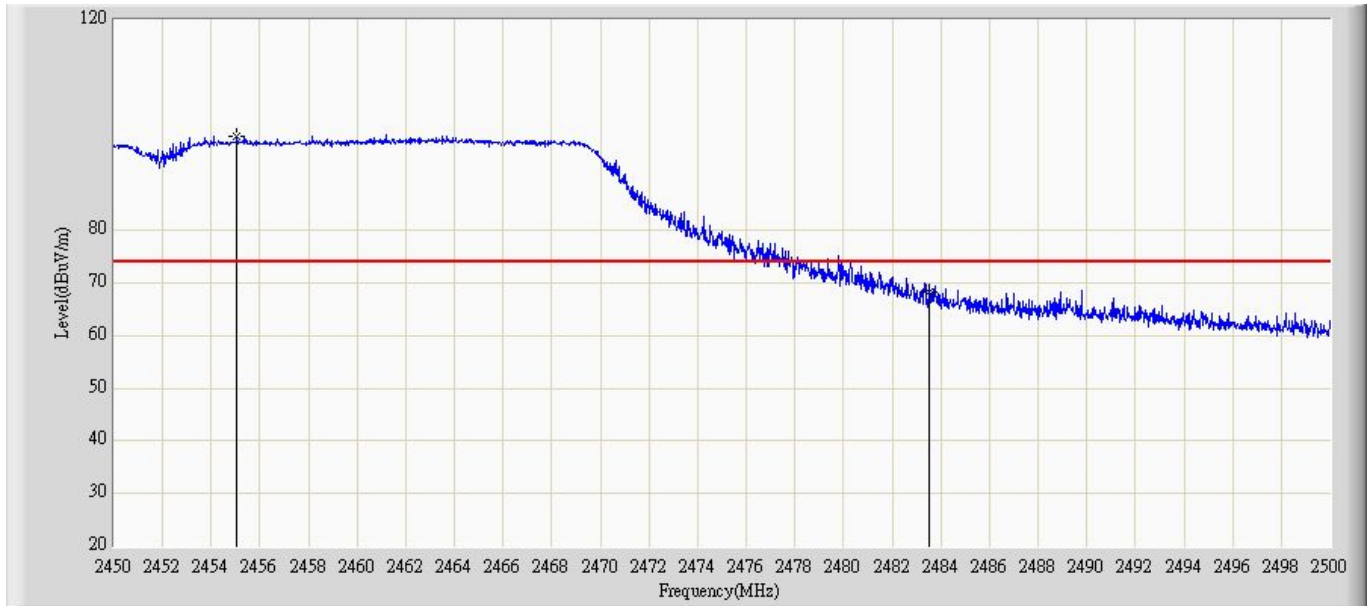
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.875	35.963	-7.125	74.000	30.911	PK
2	*	2415.625	98.605	67.743	N/A	N/A	30.861	PK

Profile: 108S013R	Page No.: 104
Engineer: Sunny	
Site: AC5	Time: 2010/08/24 - 09:13
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)	



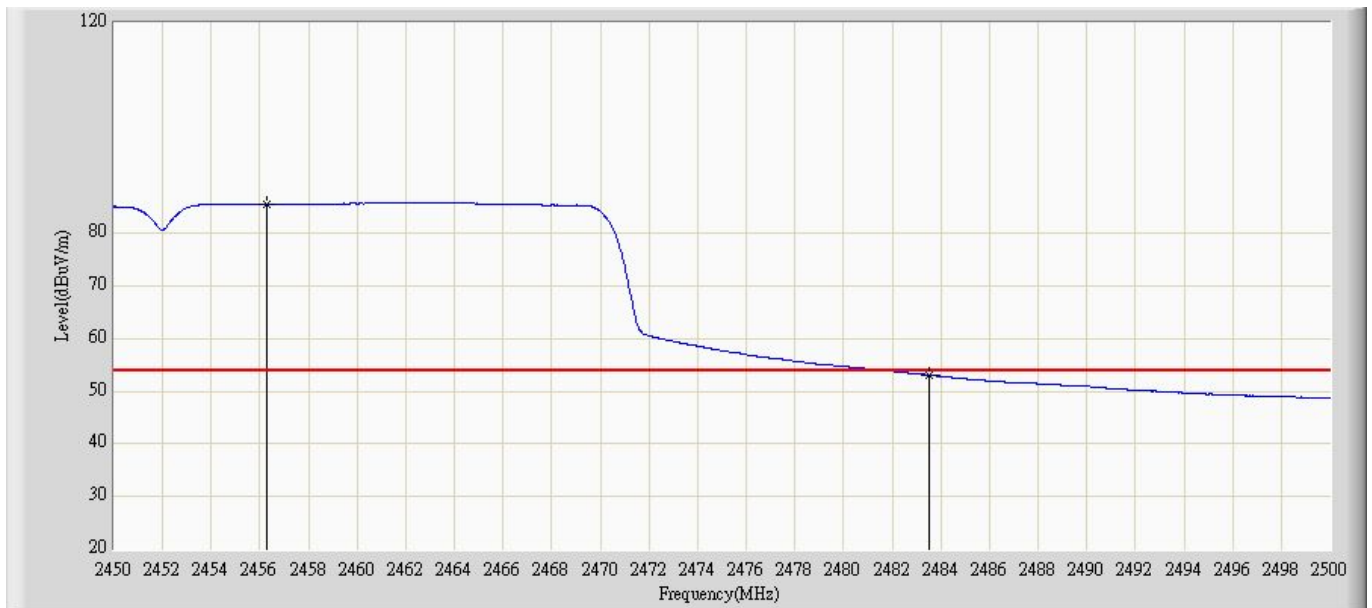
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.142	21.230	-1.858	54.000	30.911	AV
2	*	2415.300	85.596	54.733	N/A	N/A	30.862	AV

Profile: 108S013R	Page No.: 37
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:21
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)	



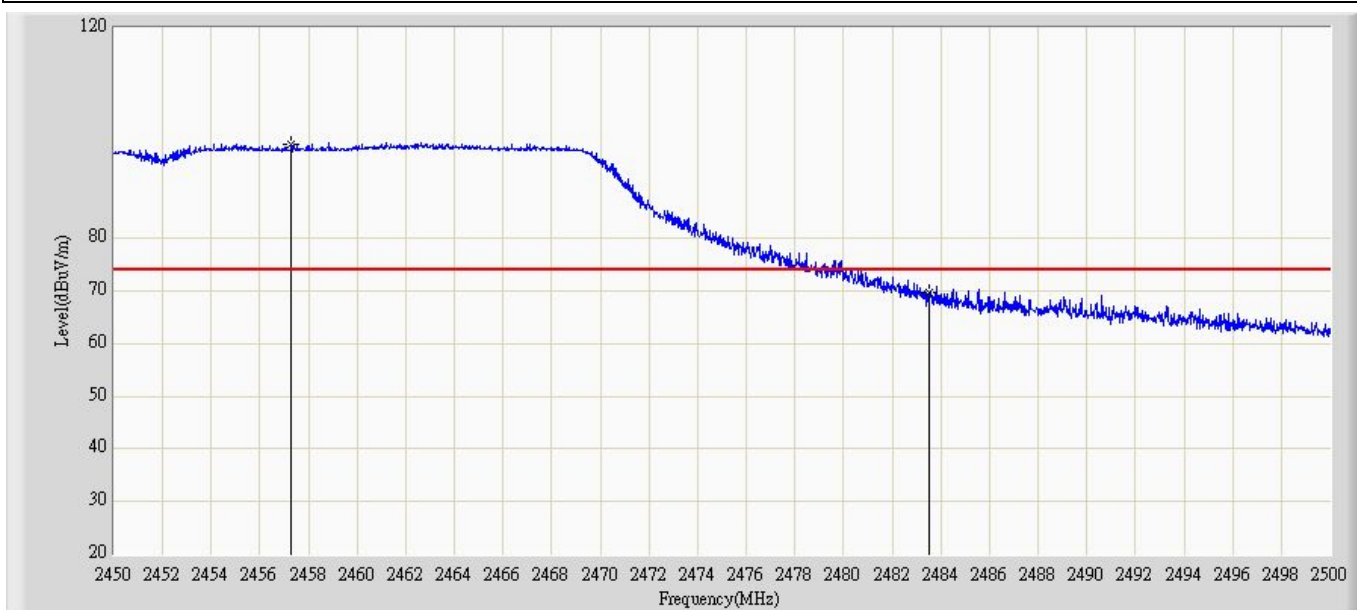
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.050	97.907	66.919	N/A	N/A	30.988	PK
2		2483.500	68.150	37.216	-5.850	74.000	30.934	PK

Profile: 108S013R	Page No.: 38
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4 :Transmit at channel 2452MHz By 802.11n(40MHz)	



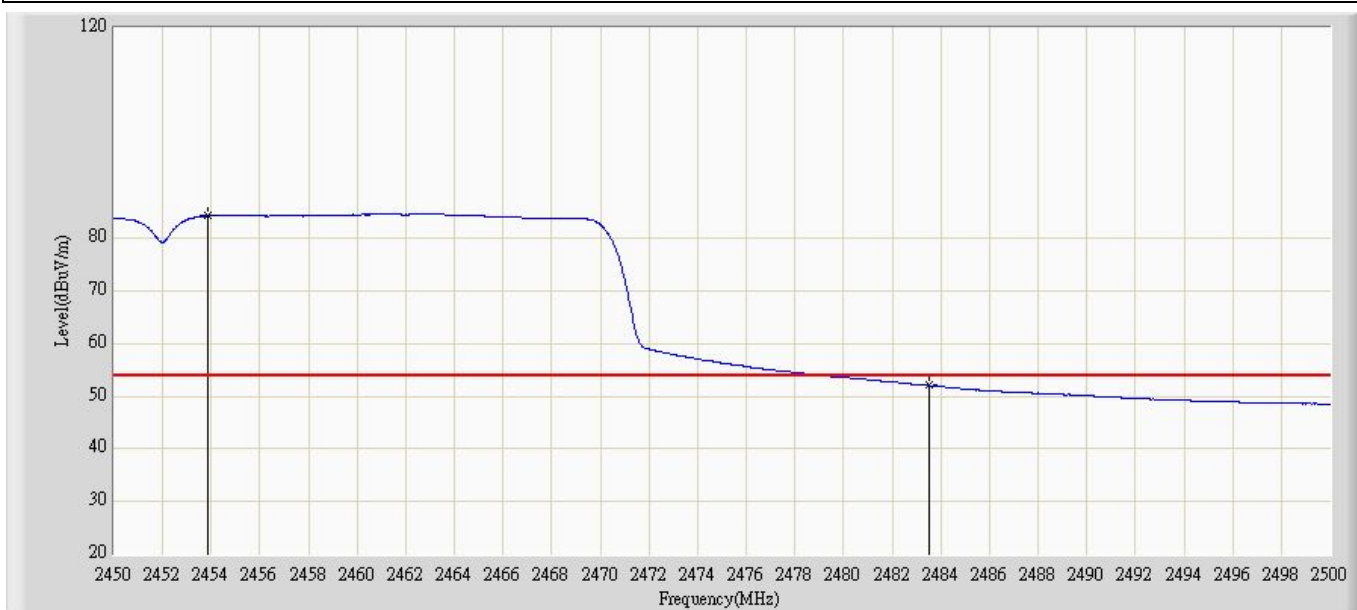
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2456.250	85.440	54.443	N/A	N/A	30.997	AV
2		2483.500	53.092	22.158	-0.908	54.000	30.934	AV

Profile: 108S013R	Page No.: 39
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:31
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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.300	97.812	66.807	N/A	N/A	31.005	PK
2		2483.500	69.777	38.843	-4.223	74.000	30.934	PK

Profile: 108S013R	Page No.: 40
Engineer: Sunny	
Site: AC5	Time: 2010/08/20 - 11:33
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	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2453.850	84.263	53.284	N/A	N/A	30.979	AV
2		2483.500	52.071	21.137	-1.929	54.000	30.934	AV

7. Operation Frequency Range of 20dB Bandwidth

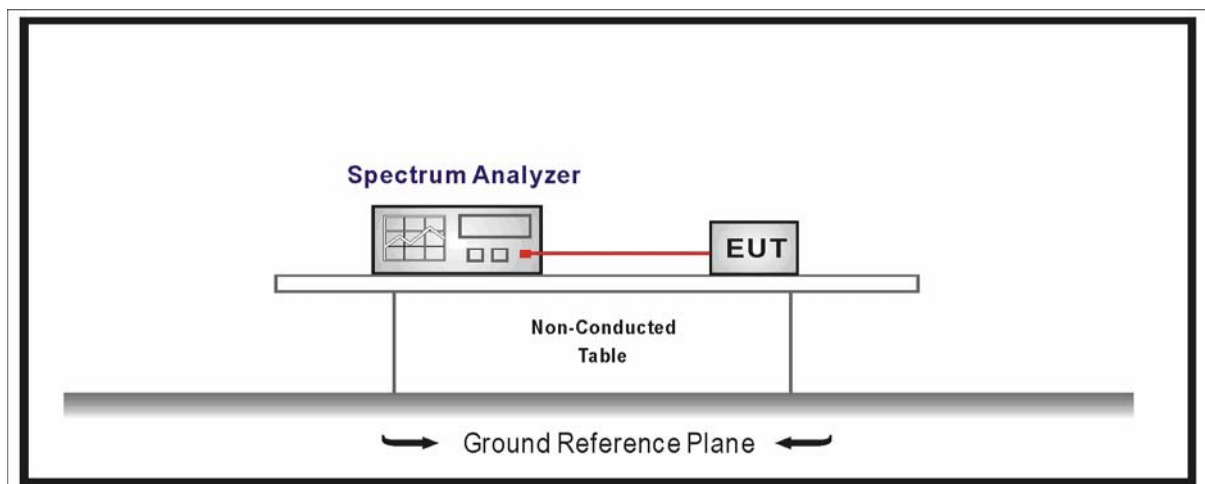
7.1. Test Equipment

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 ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

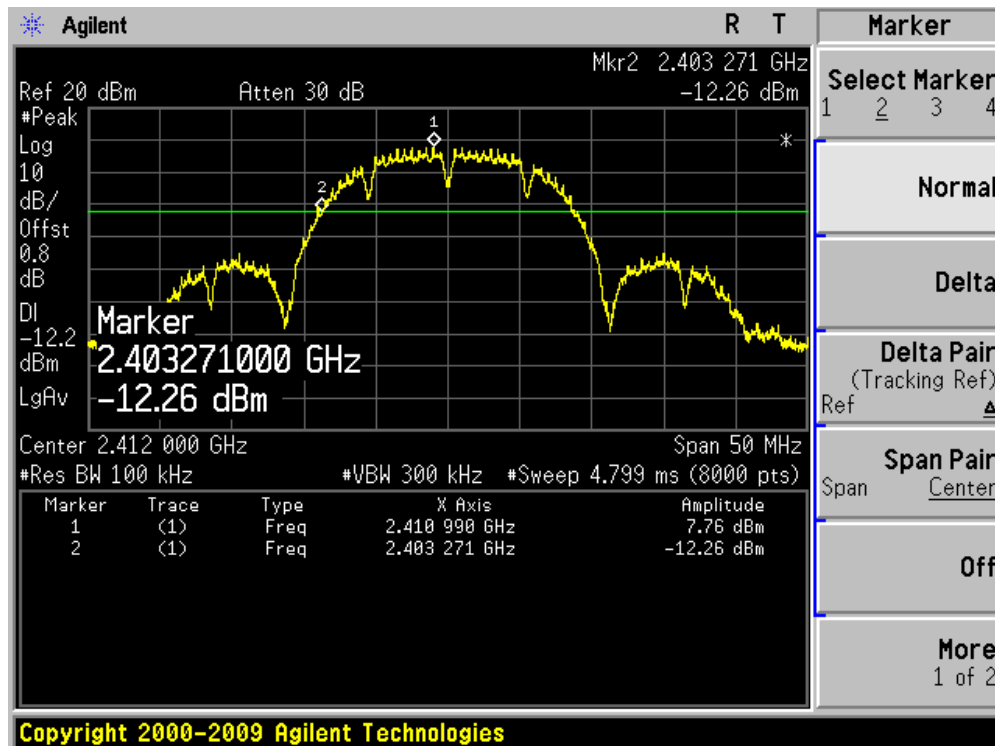
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

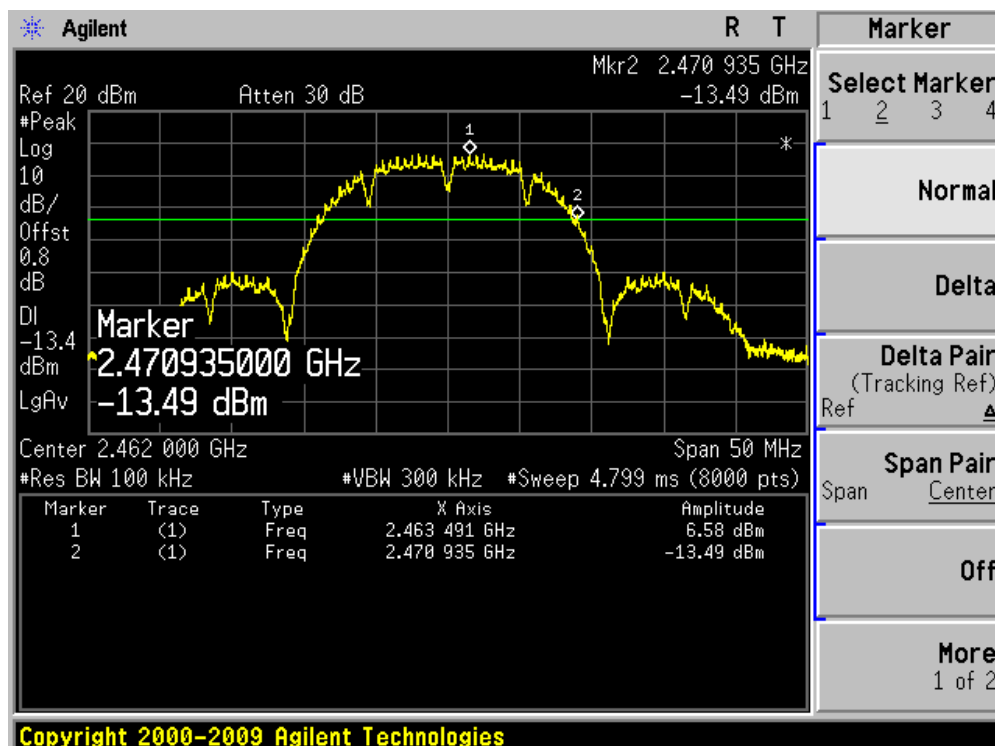
7.6. Test Result

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

Channel 01 (2412MHz)

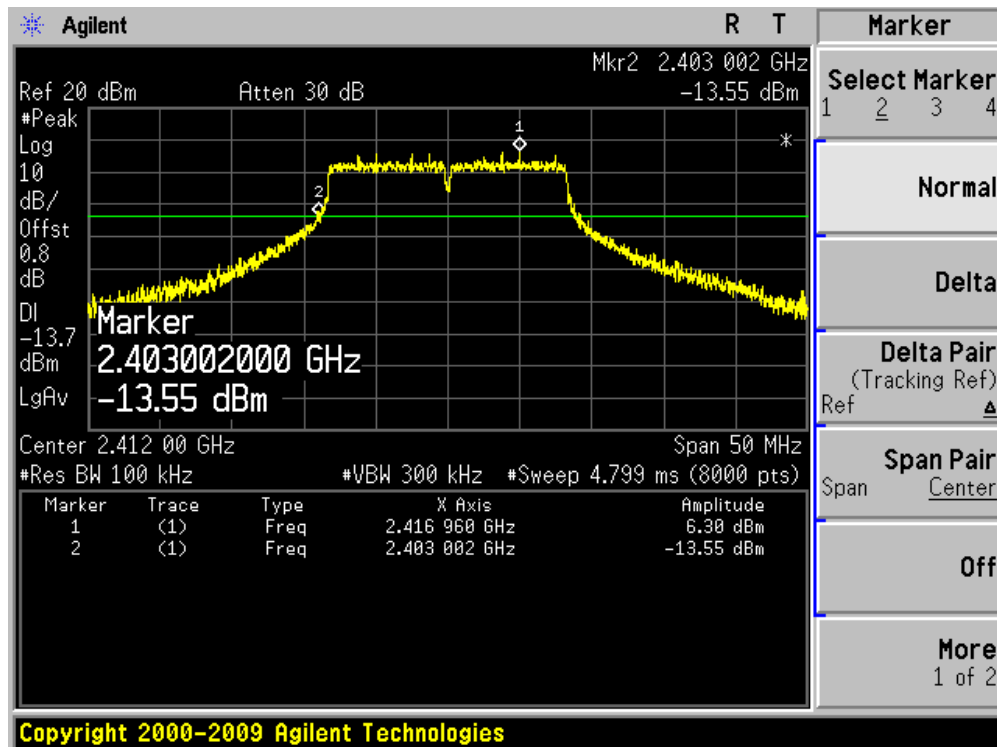


Channel 11 (2462MHz)

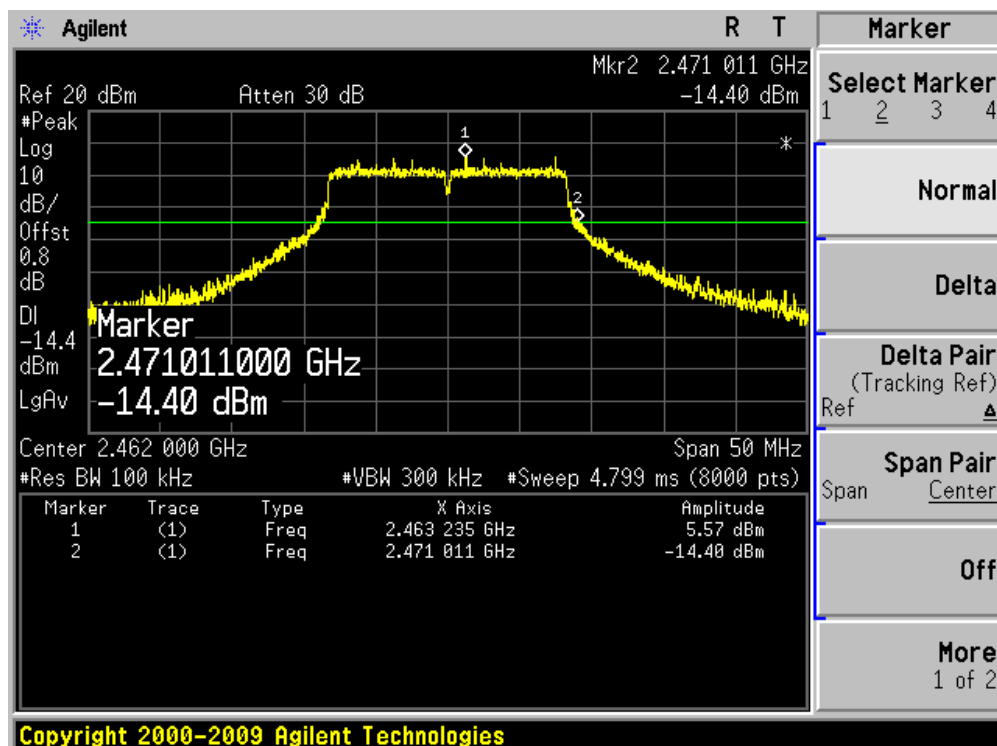


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

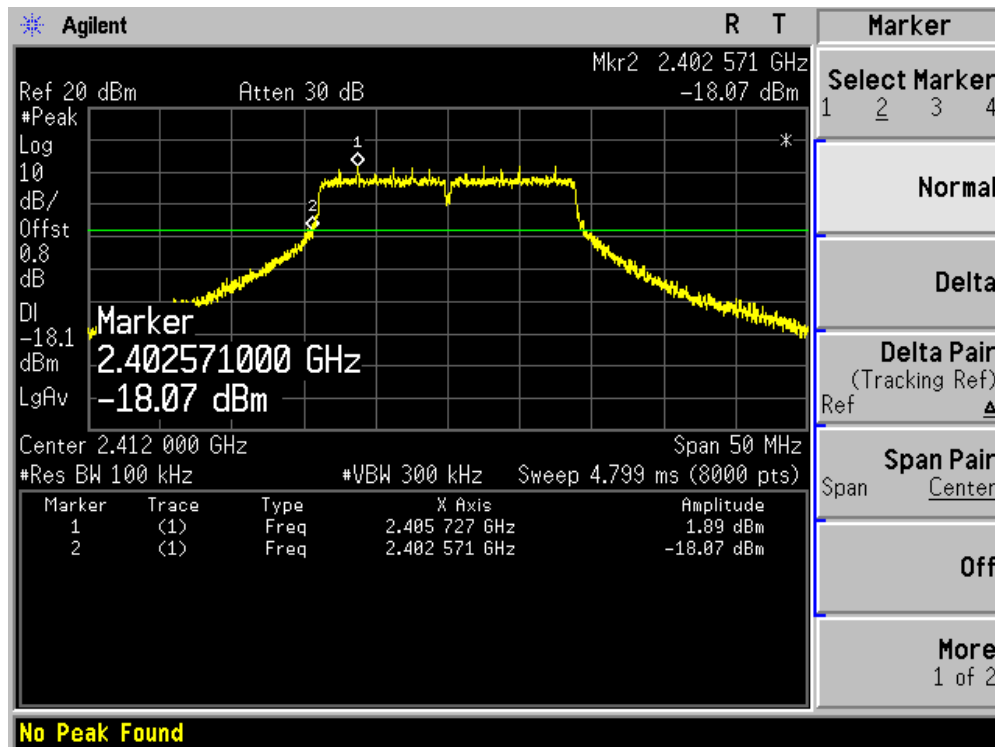


Channel 11 (2462MHz)

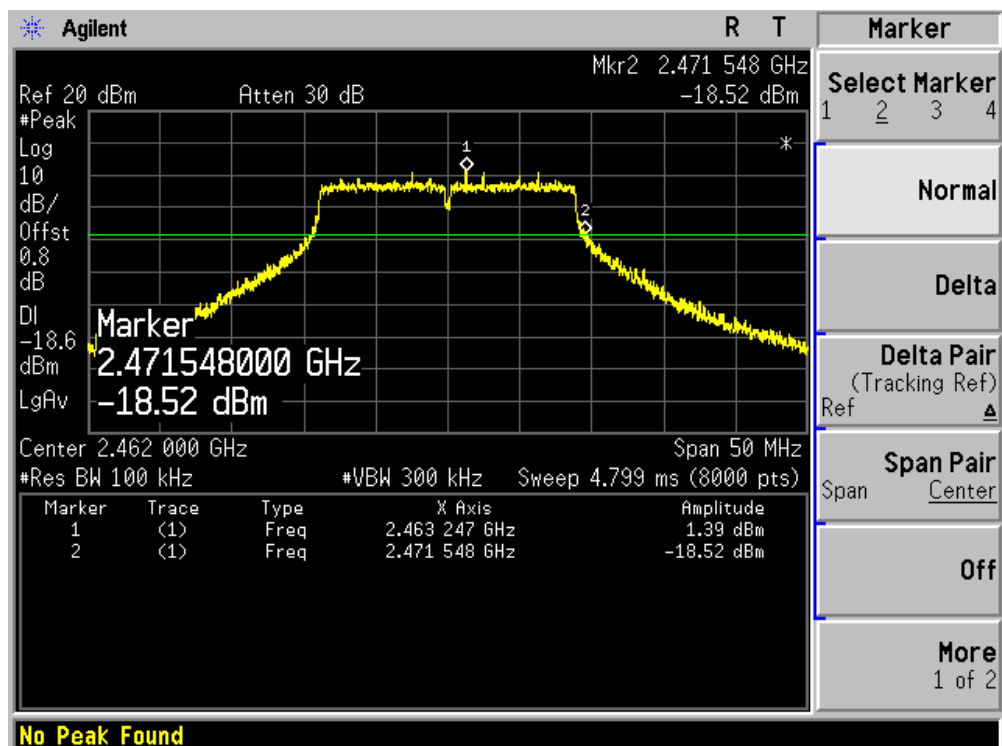


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

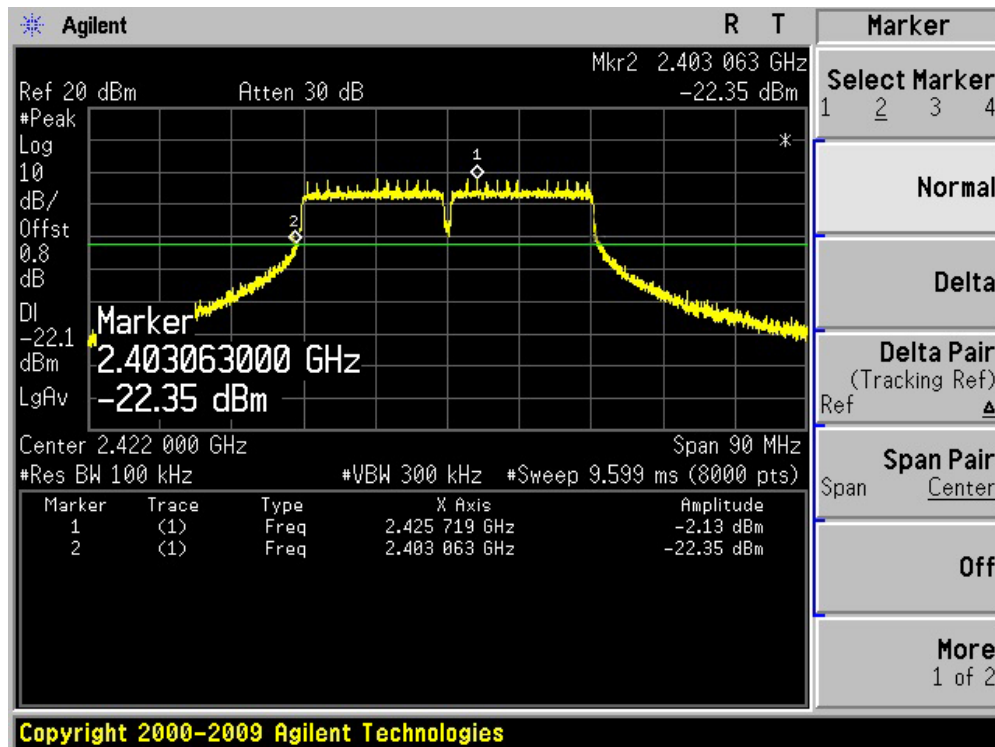


Channel 11 (2462MHz)

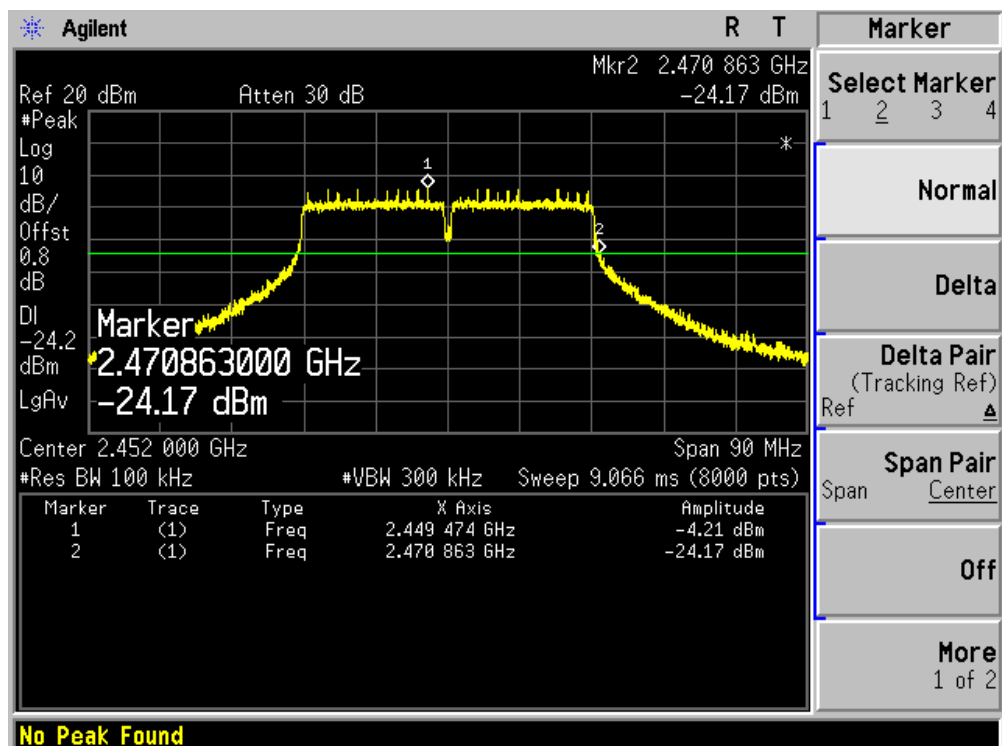


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

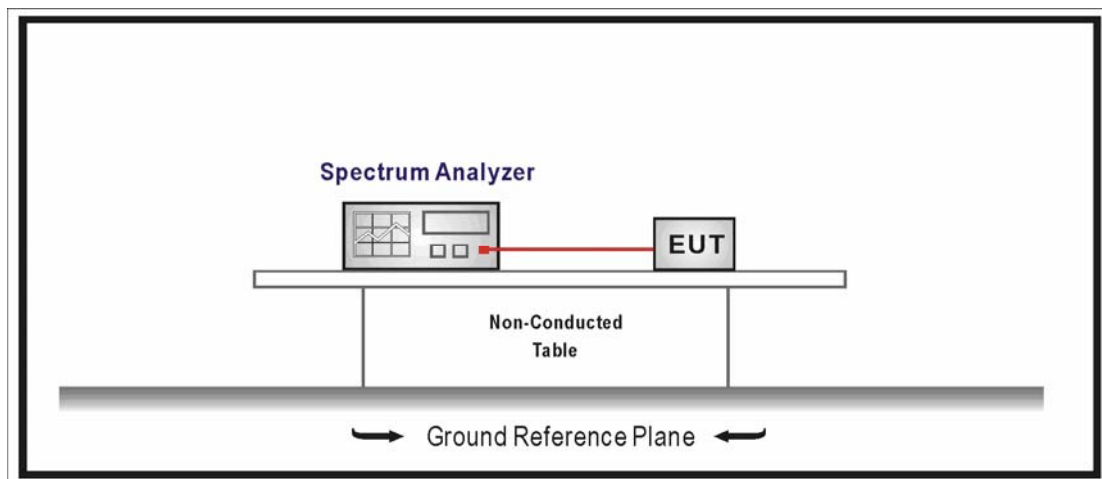
8.1. Test Equipment

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 ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

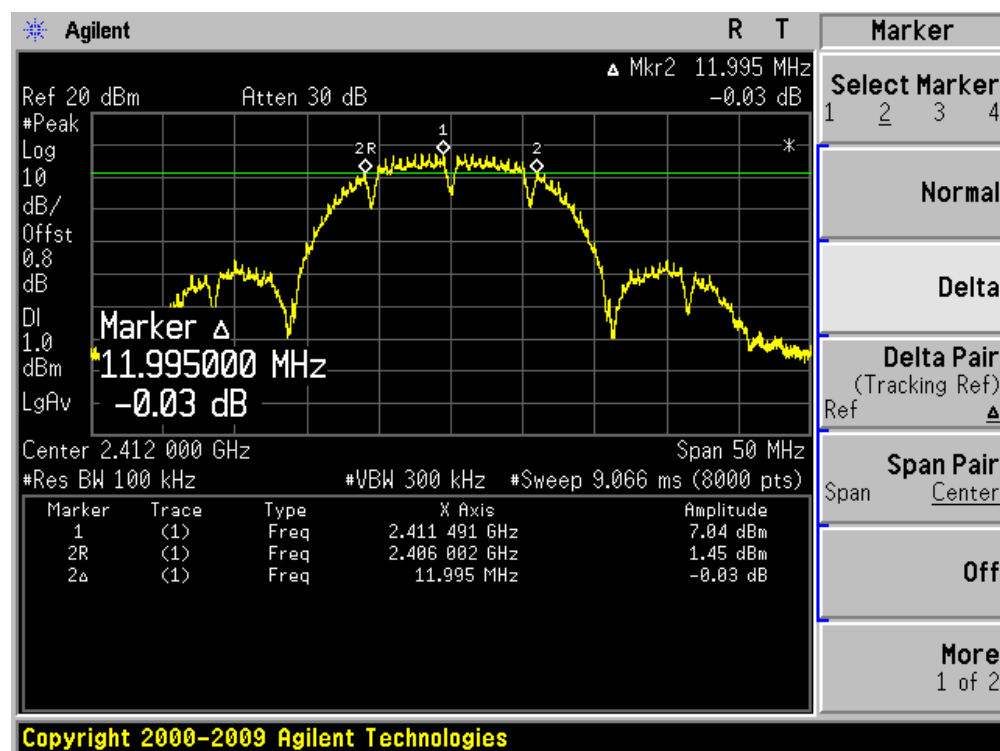
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

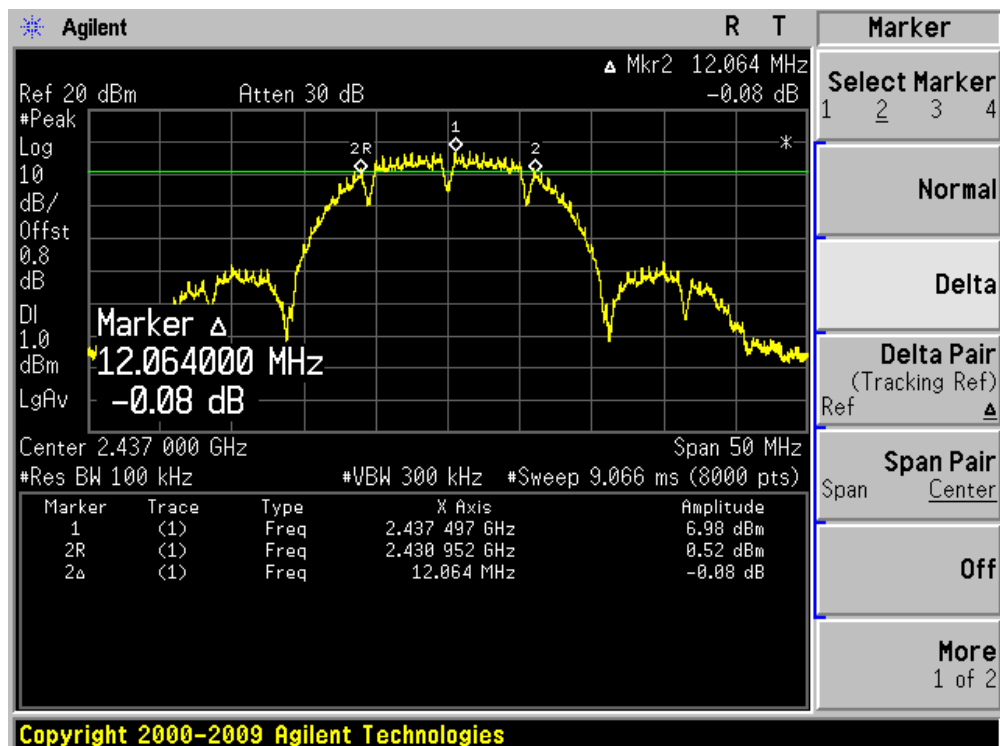
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	11995	500	Pass
06	2437	12064	500	Pass
11	2462	12083	500	Pass

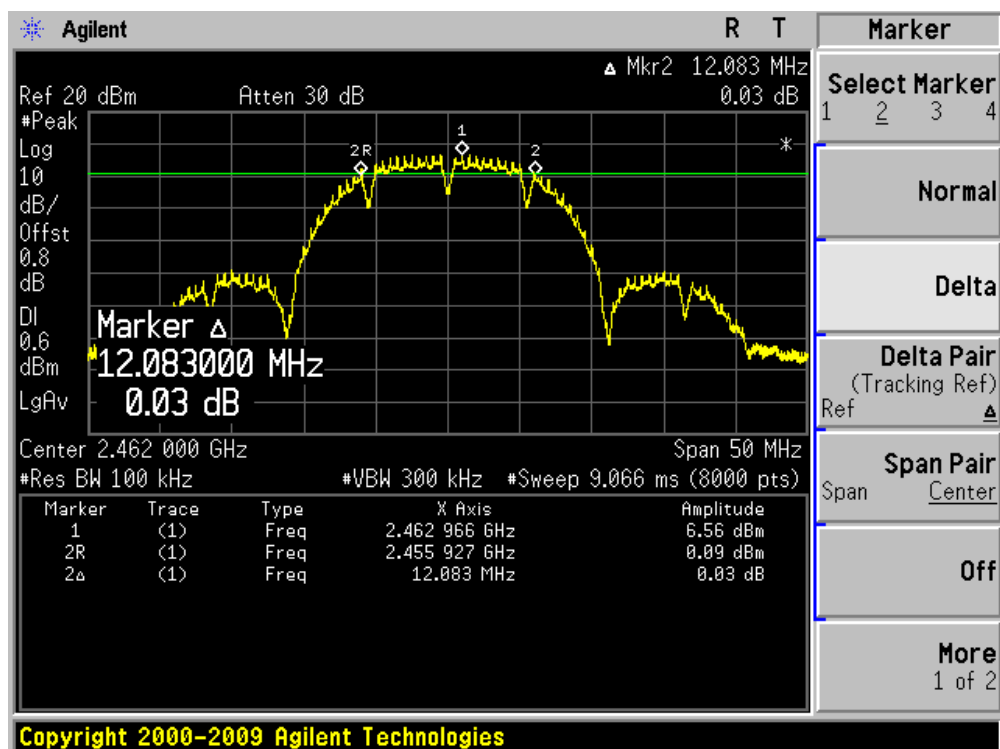
Channel 01 (2412MHz)



Channel 06 (2437MHz)



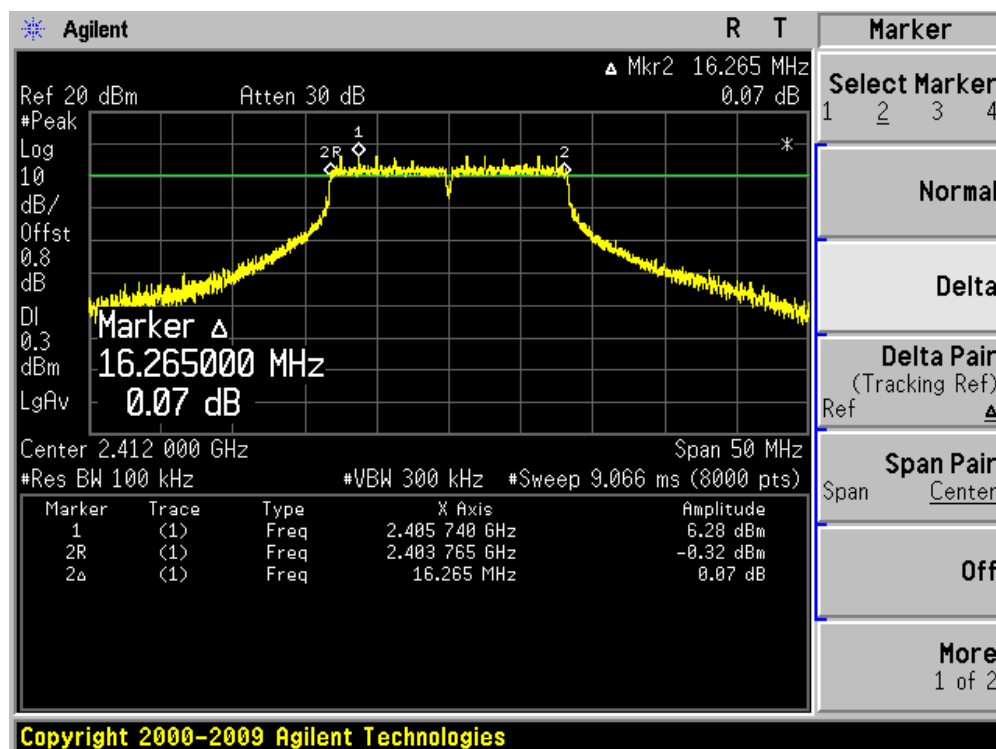
Channel 11 (2462MHz)



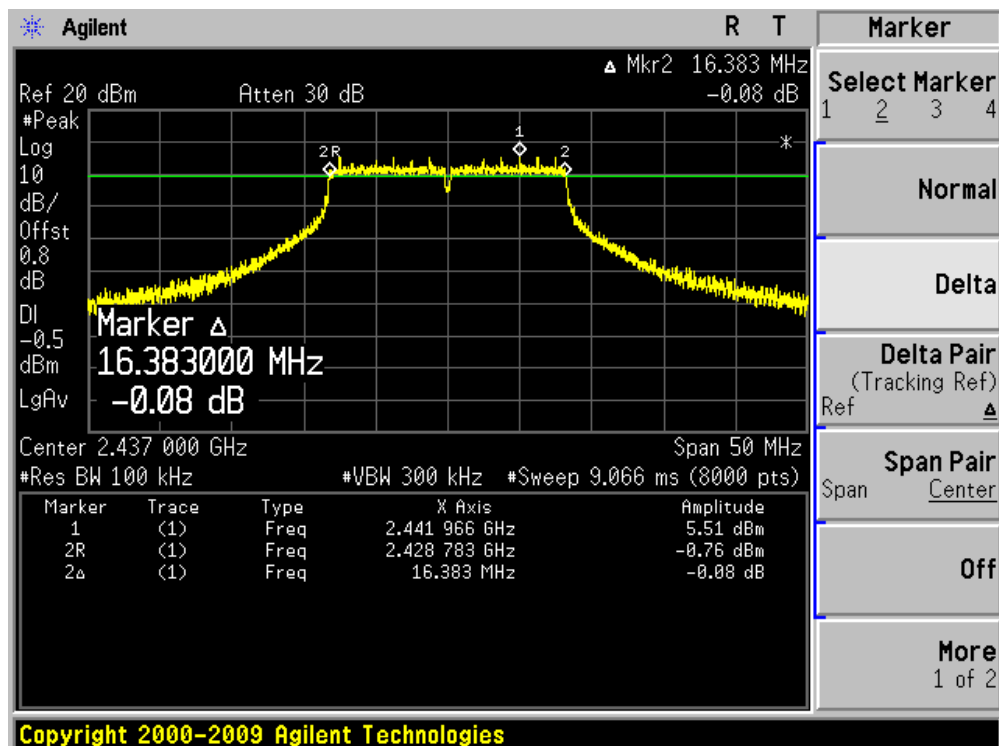
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16265	500	Pass
06	2437	16383	500	Pass
11	2462	16385	500	Pass

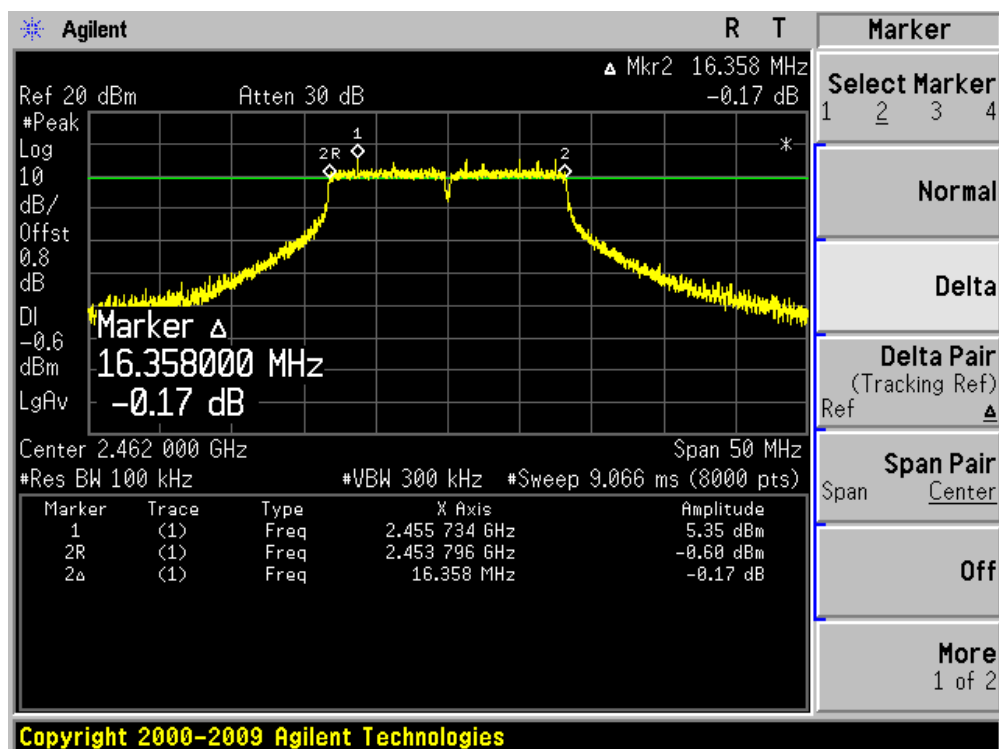
Channel 01 (2412MHz)



Channel 06 (2437MHz)

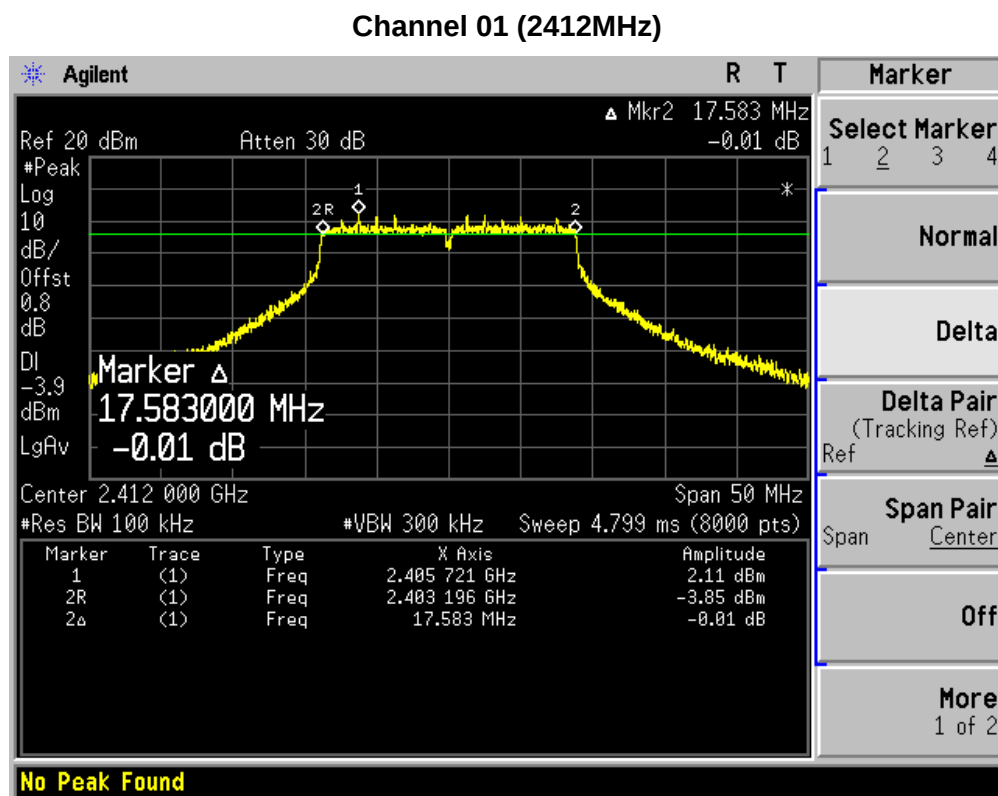


Channel 11 (2462MHz)

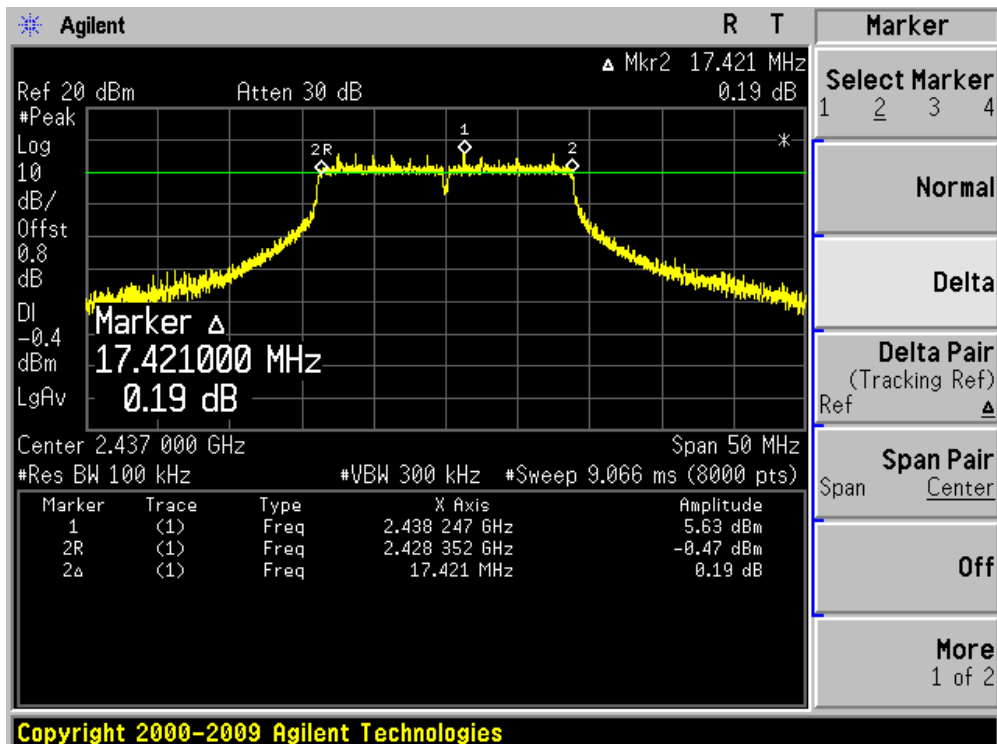


Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

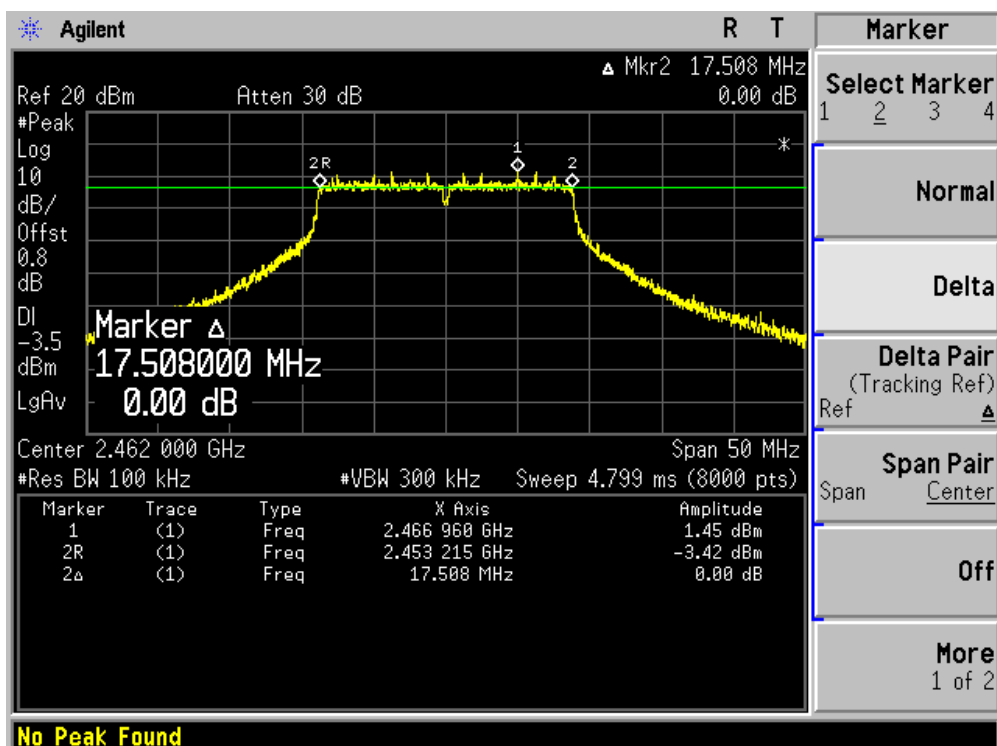
Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17583	500	Pass
06	2437	17421	500	Pass
11	2462	17508	500	Pass



Channel 06 (2437MHz)



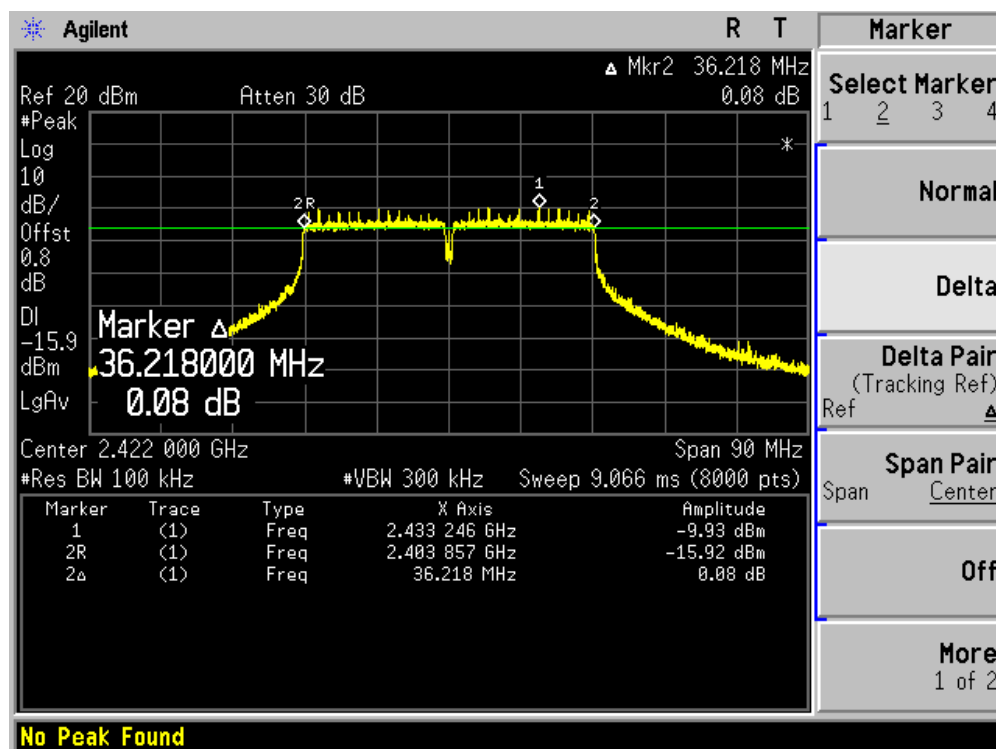
Channel 11 (2462MHz)



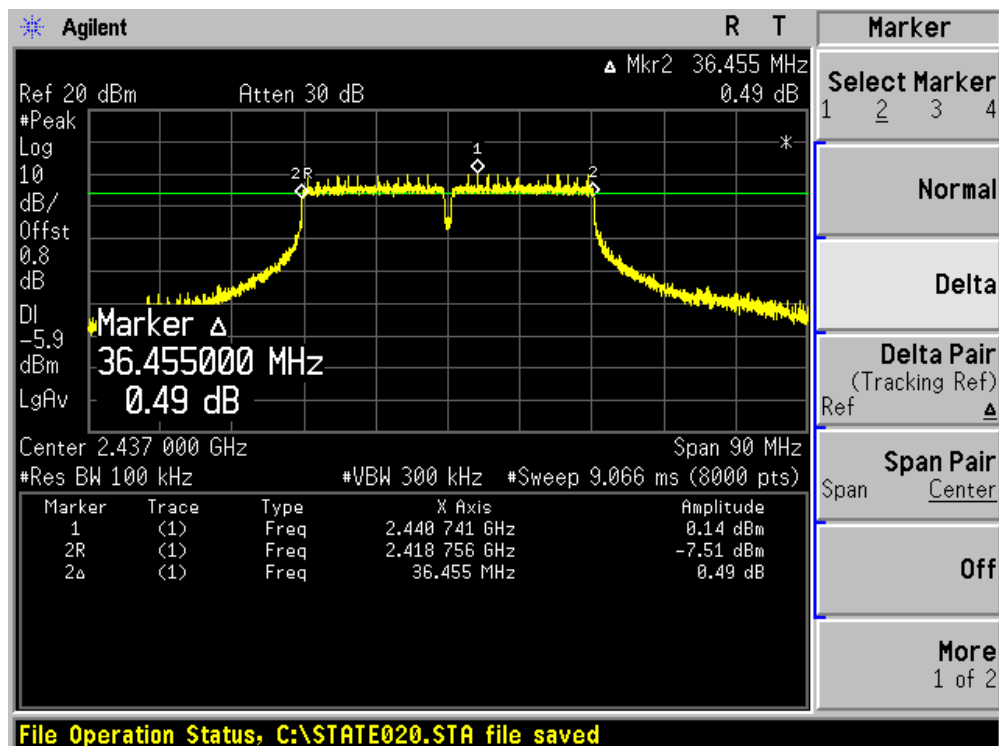
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36218	500	Pass
06	2437	36455	500	Pass
09	2452	36196	500	Pass

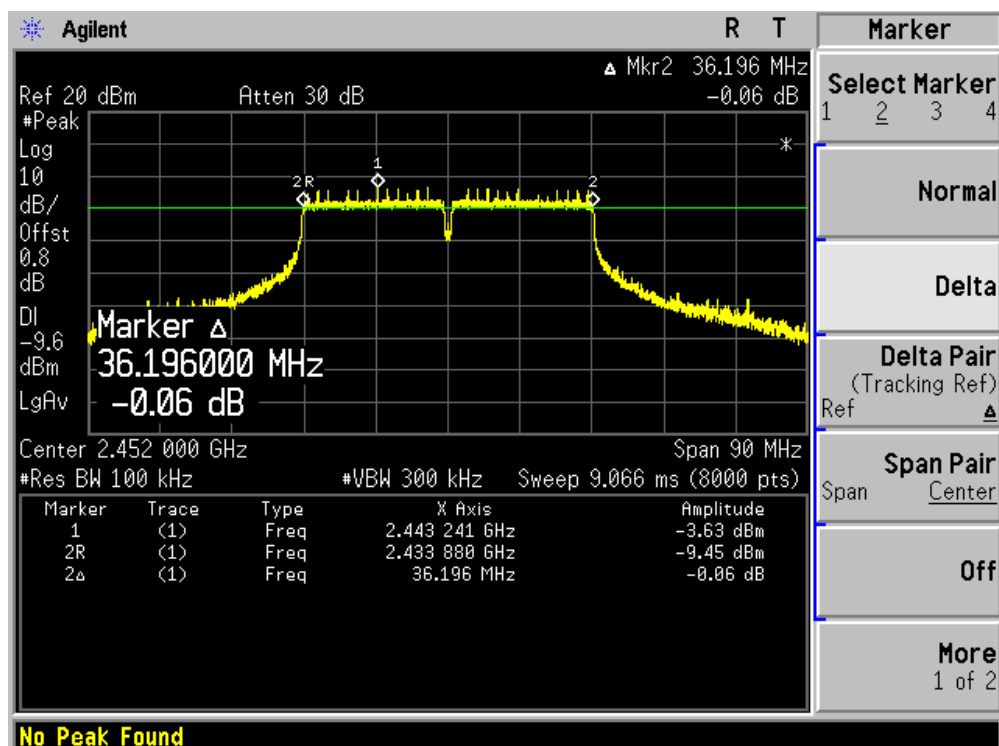
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



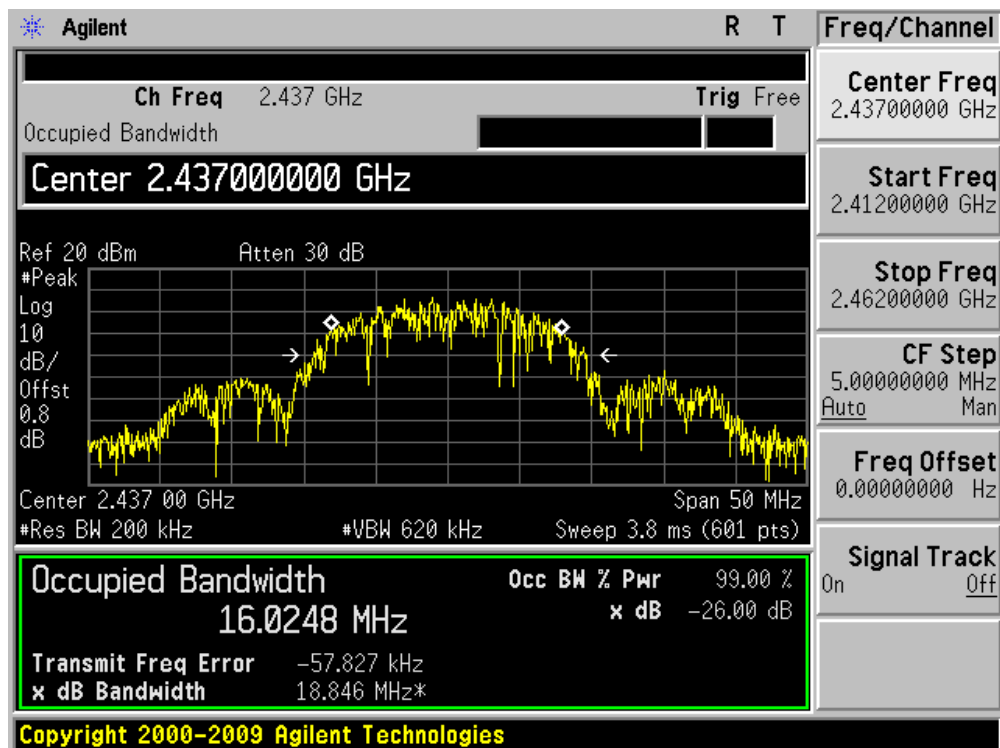
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Result
01	2412	15651.4	Pass
06	2437	16024.8	Pass
11	2462	15887.9	Pass

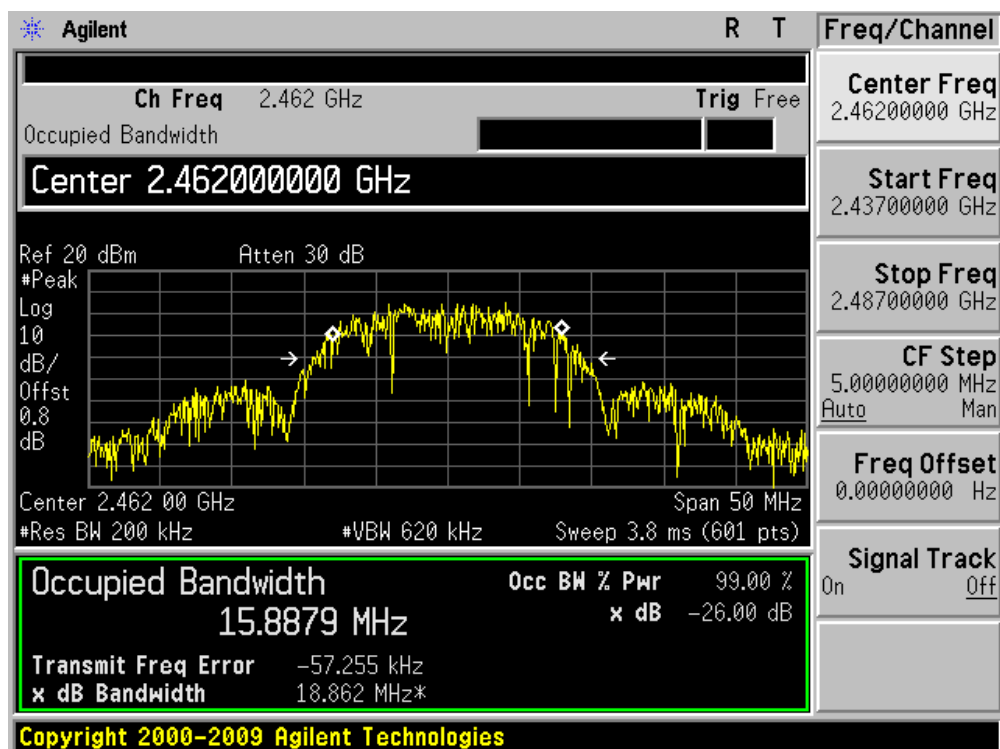
Channel 01 (2412MHz)



Channel 06 (2437MHz)



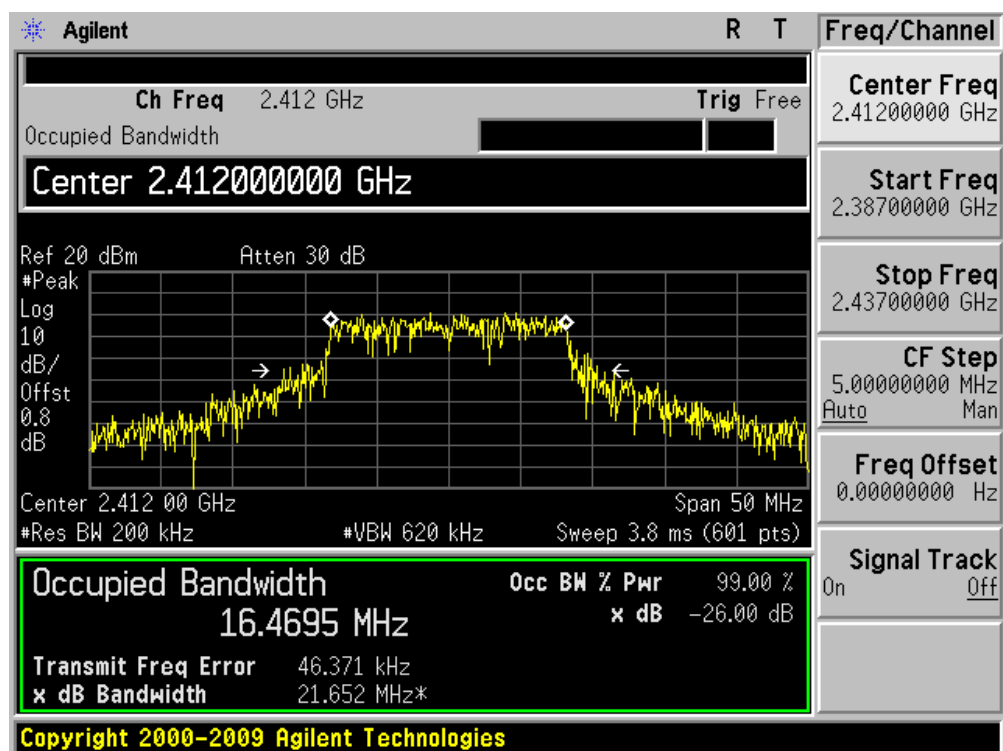
Channel 11 (2462MHz)



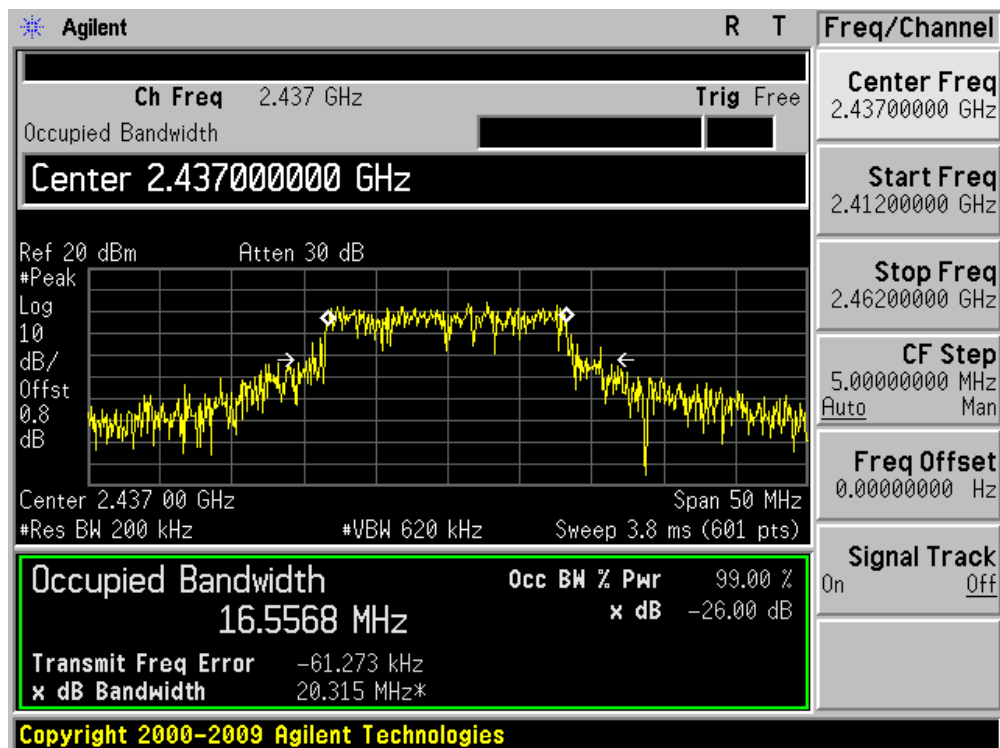
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Result
01	2412	16469.5	Pass
06	2437	16556.8	Pass
11	2462	16425.3	Pass

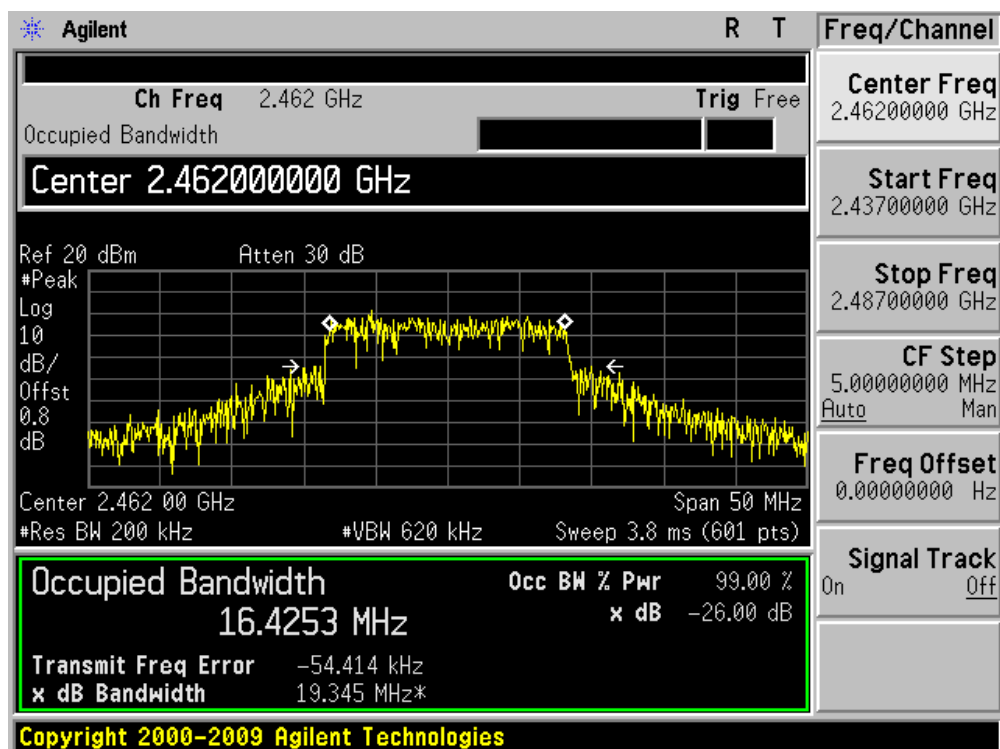
Channel 01 (2412MHz)



Channel 06 (2437MHz)



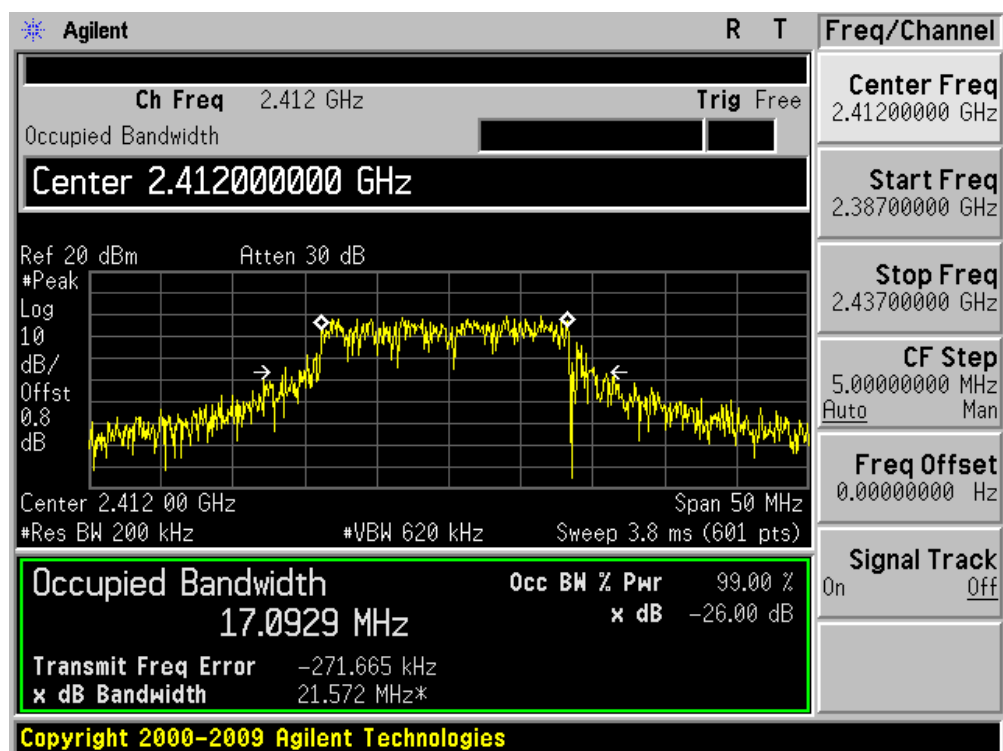
Channel 11 (2462MHz)



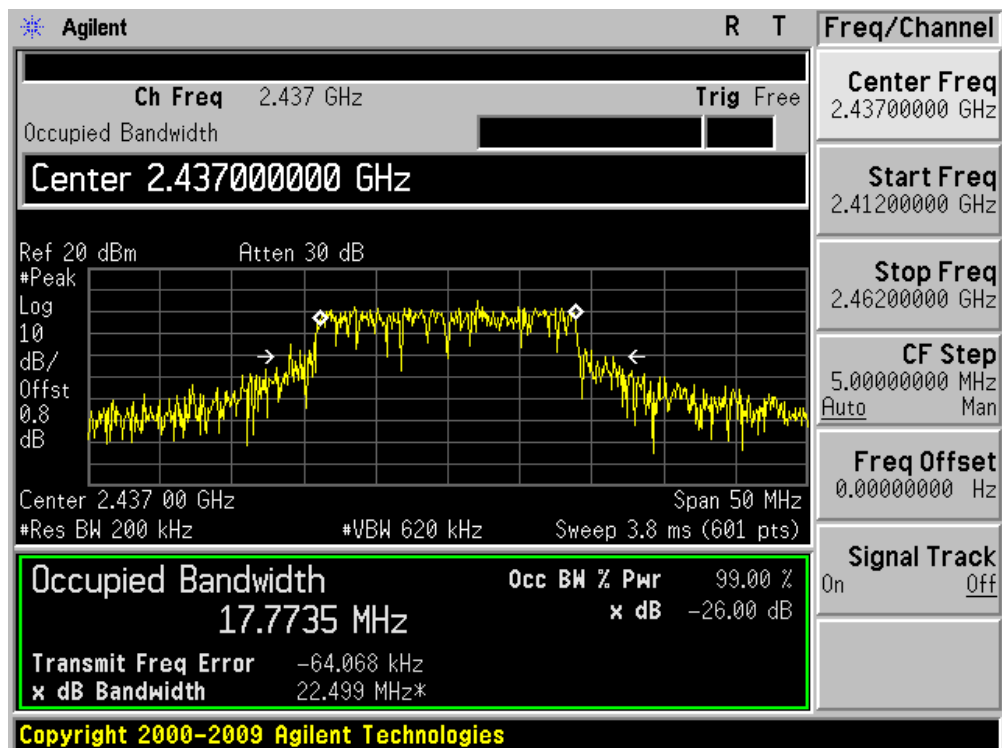
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Result
01	2412	17092.9	Pass
06	2437	17773.5	Pass
11	2462	17683.0	Pass

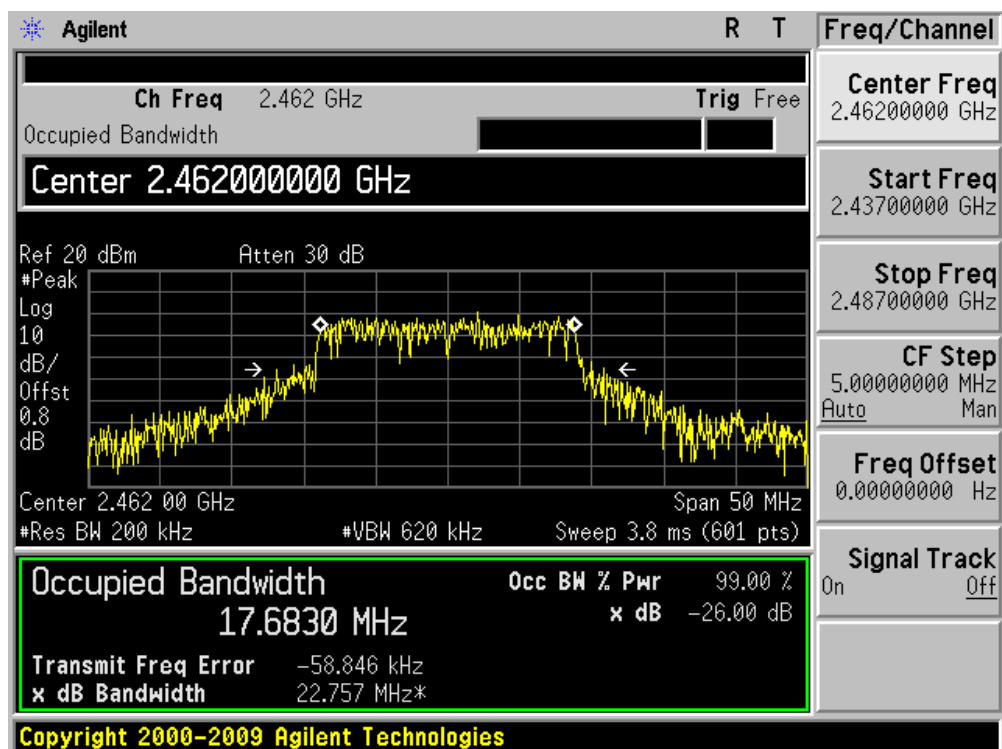
Channel 01 (2412MHz)



Channel 06 (2437MHz)



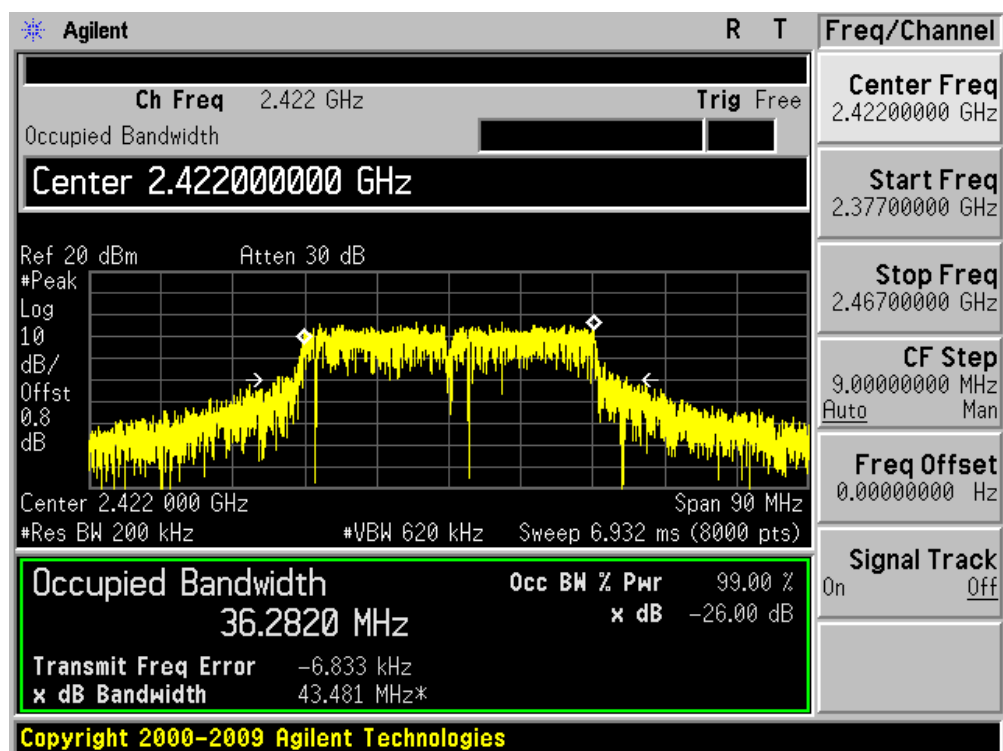
Channel 11 (2462MHz)



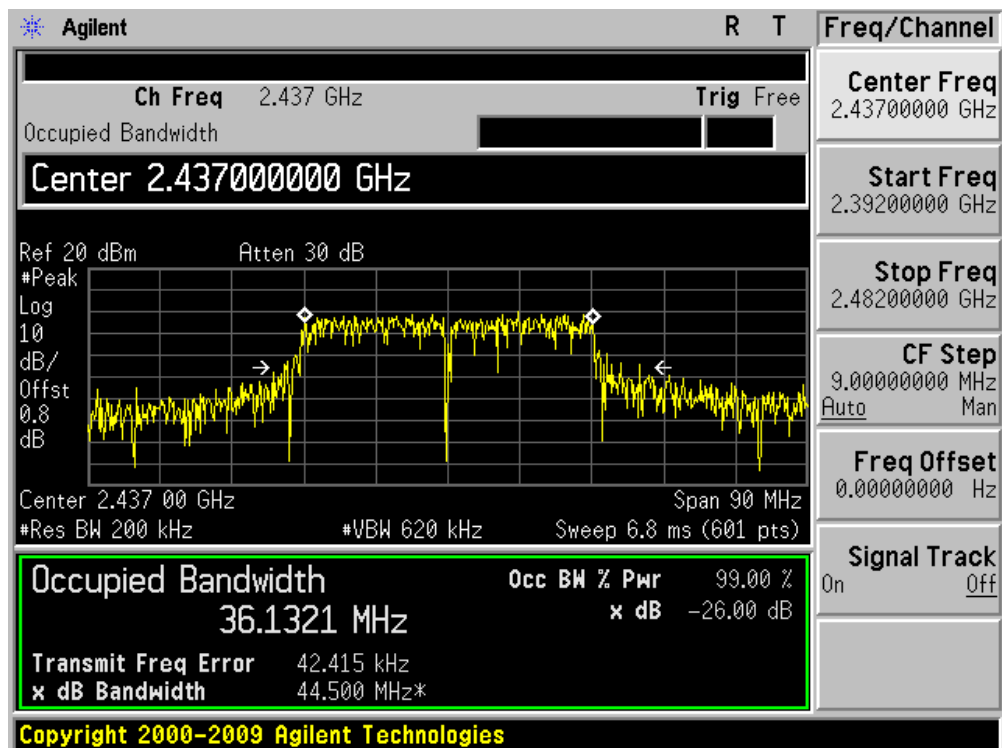
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Result
03	2422	36282.0	Pass
06	2437	36132.1	Pass
09	2452	36238.6	Pass

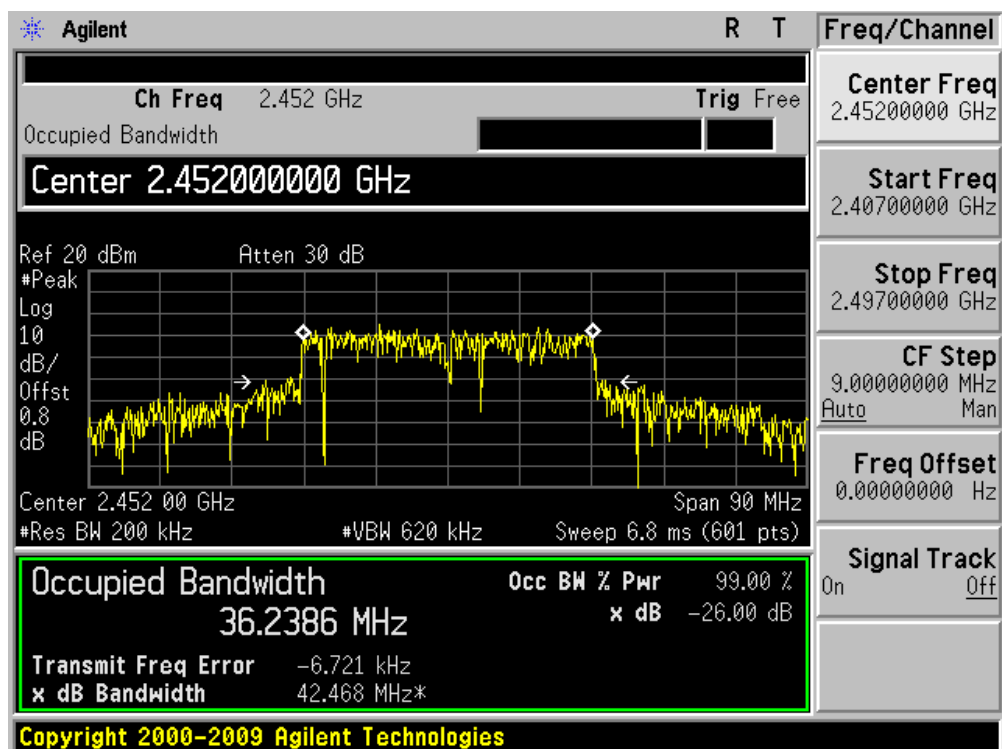
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2462MHz)



9. Power Output

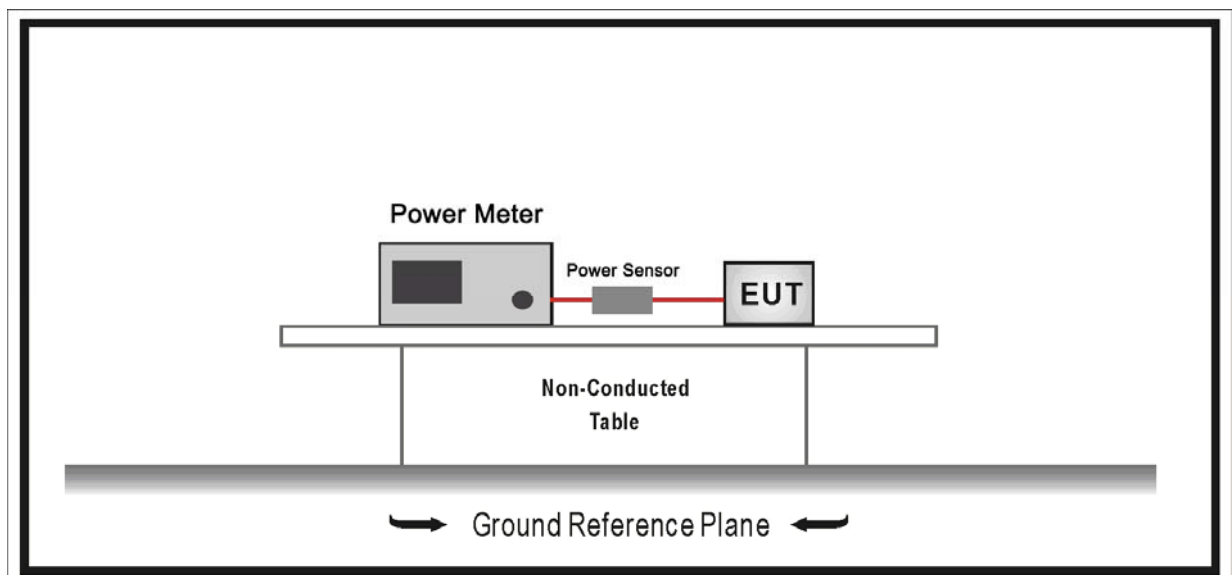
9.1. Test Equipment

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 ANSI C63.10: 2009 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	
				800ns GI	400ns GI
0	1	1	6	6.5	7.2
1	1	2	9	13.0	14.4
2	1	5.5	12	19.5	21.7
3	1	11	18	26.0	28.9
4	1	---	24	39.0	43.3
5	1	---	36	52.0	57.8
6	1	---	48	58.5	65.0
7	1	---	54	65.0	72.2

Power output at various data rates:

Test Mode	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b	2437	6	1	19.98
			2	19.62
			5.5	19.46
			11	19.21
802.11g	2437	6	6	21.05
			9	20.91
			12	20.79
			18	20.55
			24	20.41
			36	20.36
			48	20.22
			54	20.14
802.11n (20M)	2437	6	6.5	21.56
			13.0	21.42
			19.5	21.31
			26.0	21.25
			39.0	21.10
			52.0	20.96
			58.5	20.53
			65.0	20.04

Product	:	Eee PC
Test Item	:	Power Output

Test Mode	Channel No.	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
802.11b	01	2412	20.89	30	Pass
	06	2437	19.98	30	Pass
	11	2462	19.20	30	Pass
802.11g	01	2412	18.34	30	Pass
	06	2437	21.05	30	Pass
	11	2462	17.48	30	Pass
802.11n(20M)	01	2412	17.63	30	Pass
	06	2437	21.56	30	Pass
	11	2462	17.74	30	Pass
802.11n(40M)	03	2422	11.87	30	Pass
	06	2437	21.37	30	Pass
	09	2452	14.26	30	Pass

10. Power Spectral Density

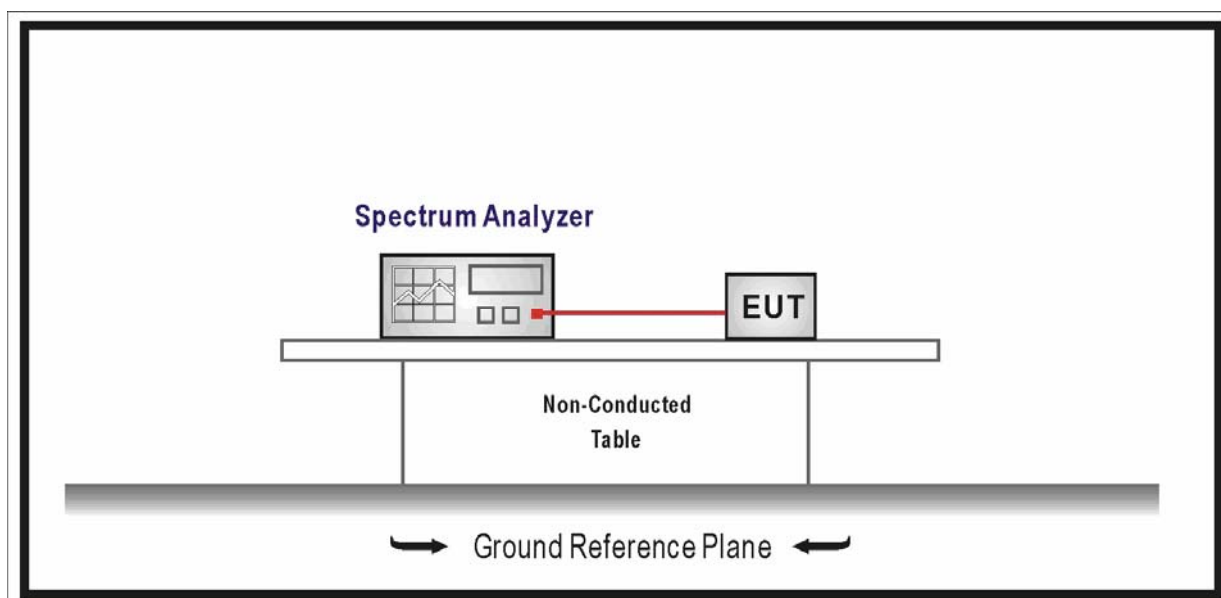
10.1. Test Equipment

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 ANSI C63.10: 2009 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

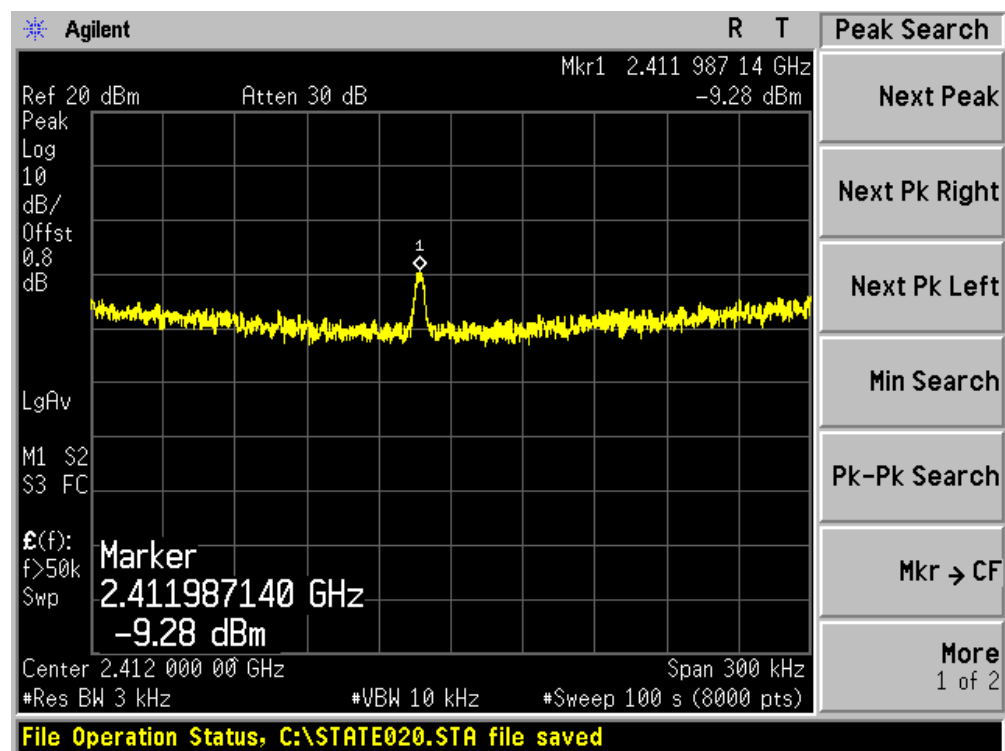
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

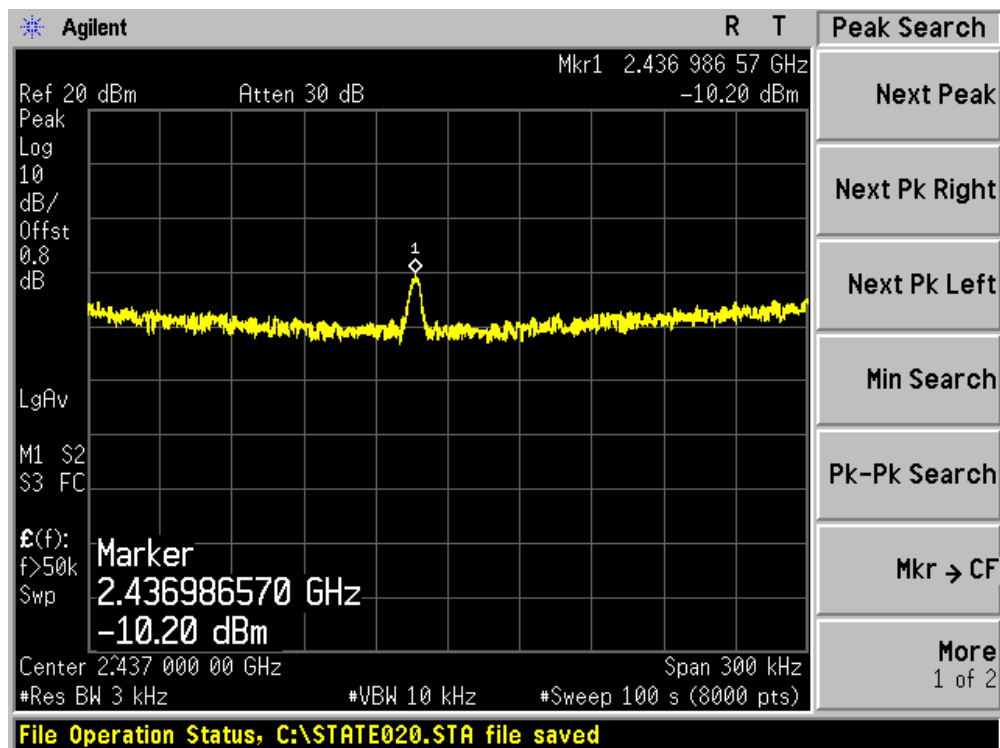
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-9.28	8	Pass
06	2437	-10.2	8	Pass
11	2462	-10.6	8	Pass

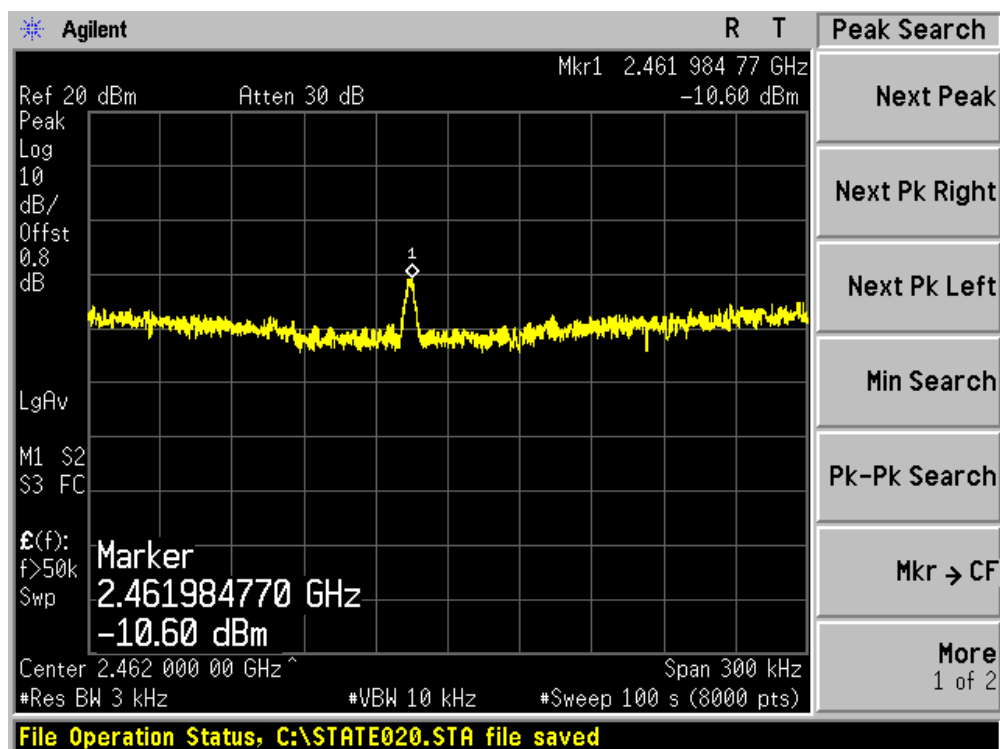
Channel 01 (2412MHz)



Channel 06 (2437MHz)



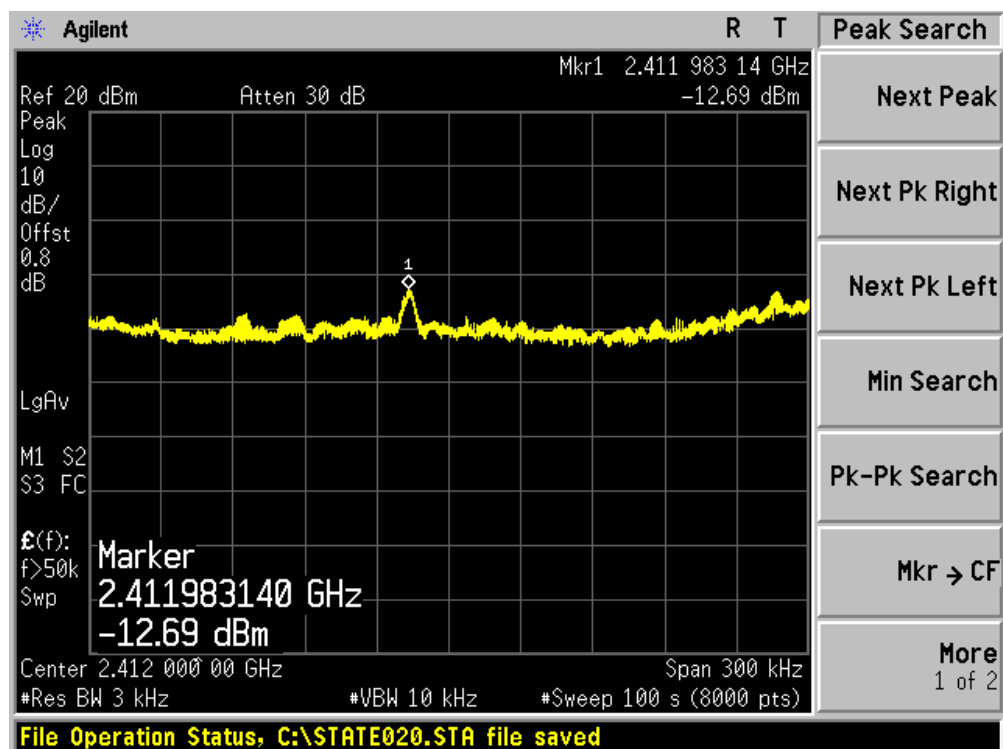
Channel 11 (2462MHz)



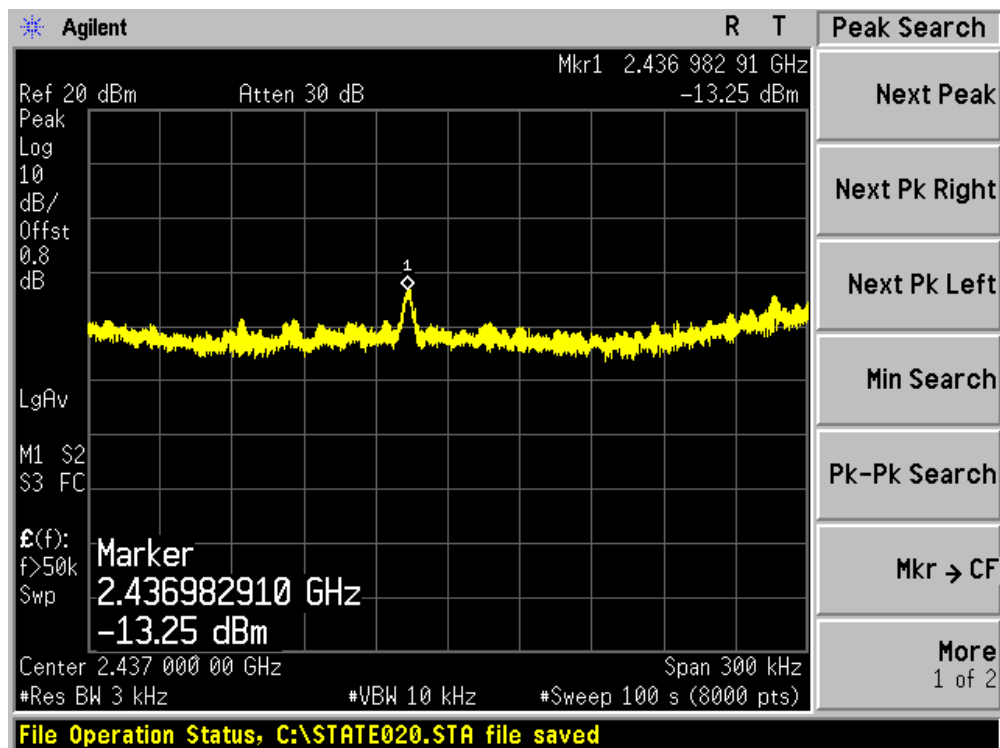
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-12.69	8	Pass
06	2437	-13.25	8	Pass
11	2462	-11.86	8	Pass

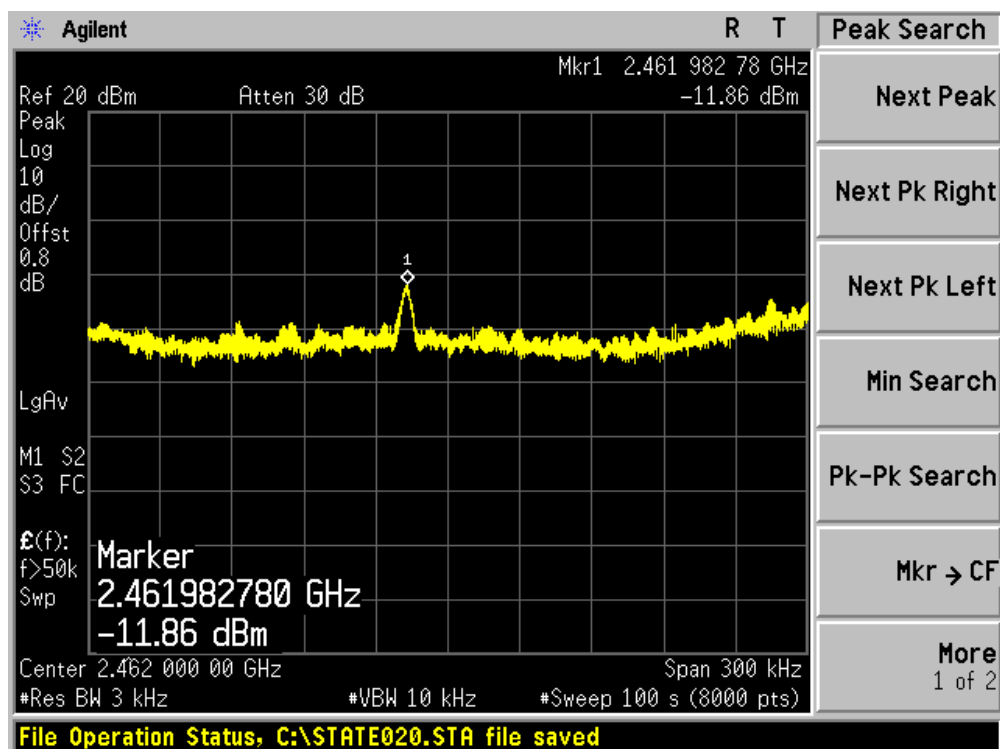
Channel 01 (2412MHz)



Channel 06 (2437MHz)



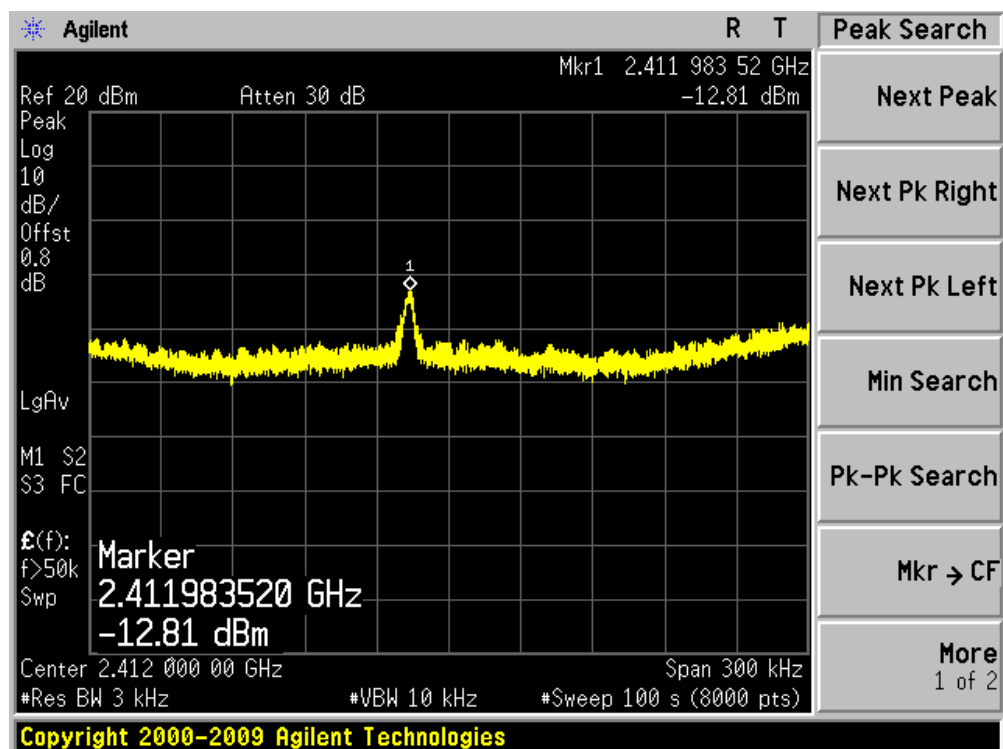
Channel 11 (2462MHz)



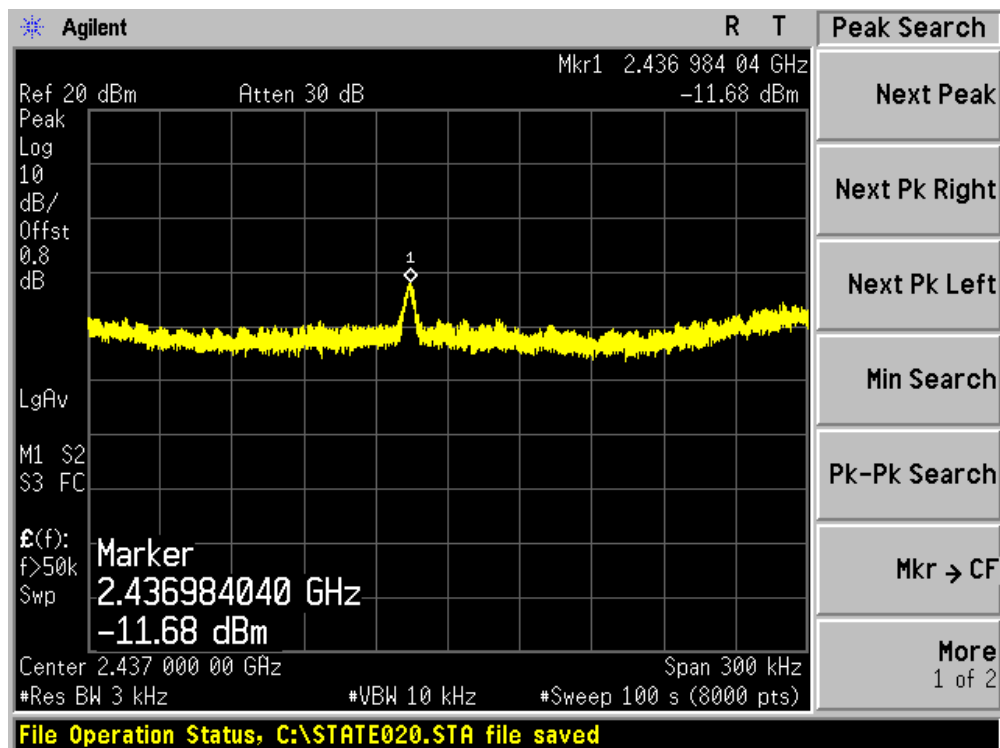
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-12.82	8	Pass
06	2437	-11.68	8	Pass
11	2462	-10.87	8	Pass

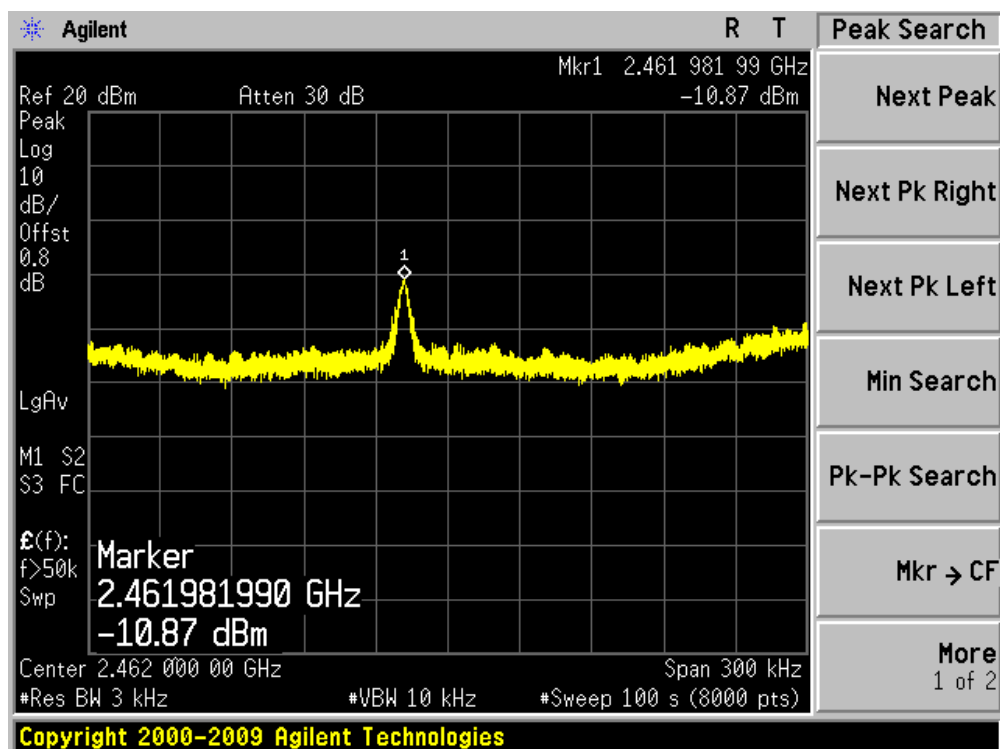
Channel 01 (2412MHz)



Channel 06 (2437MHz)



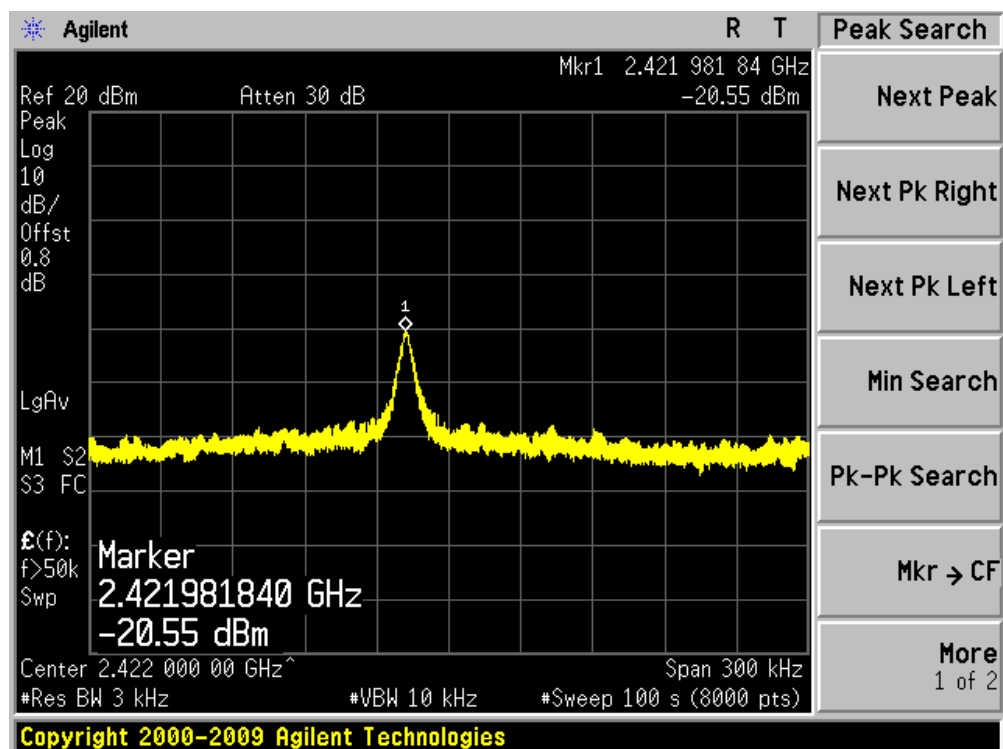
Channel 11 (2462MHz)



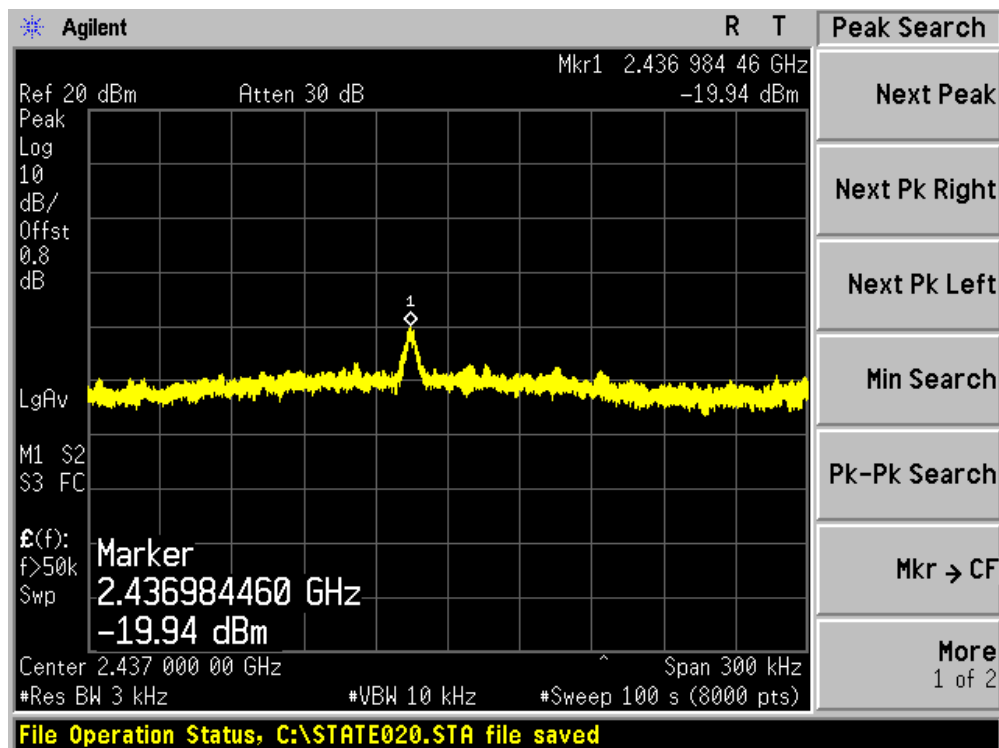
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
03	2422	-12.82	8	Pass
06	2437	-11.68	8	Pass
09	2452	-10.87	8	Pass

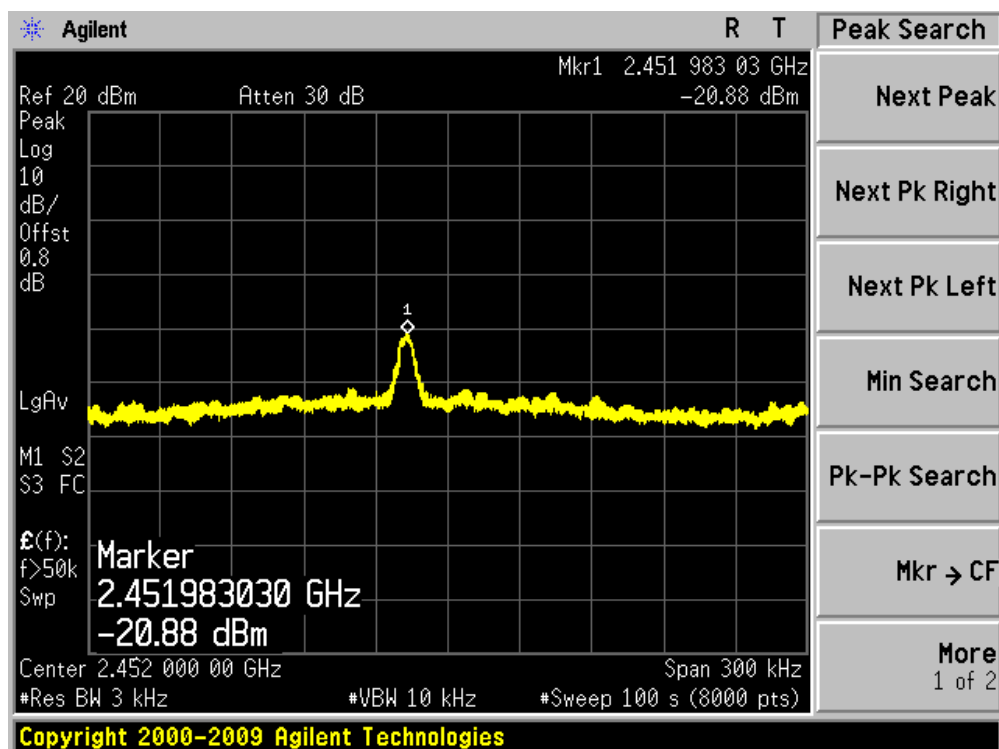
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



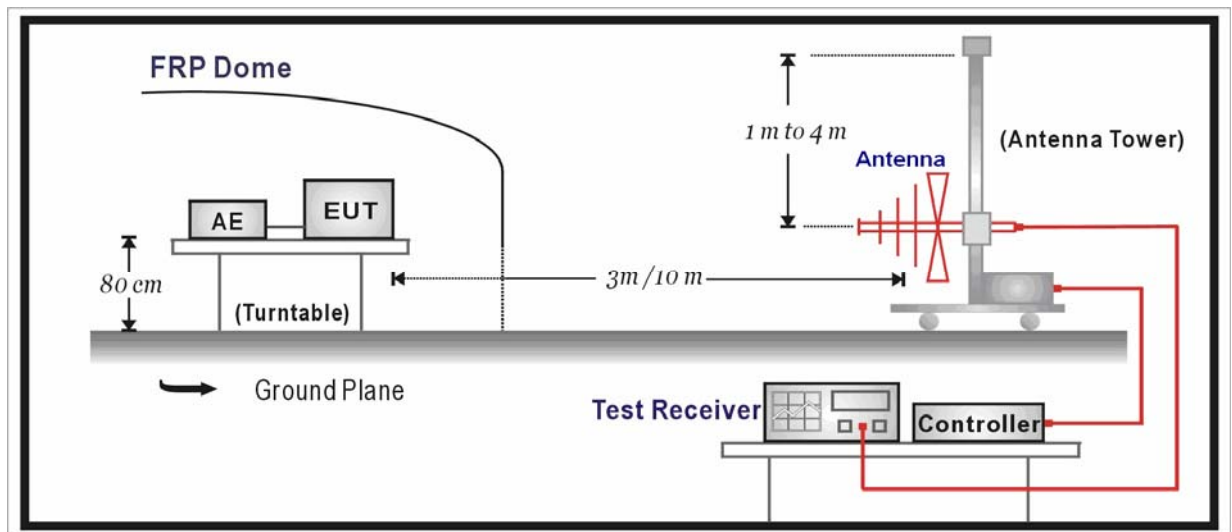
11. Receiver Spurious Emission for RSS-GEN

11.1. Test Specification

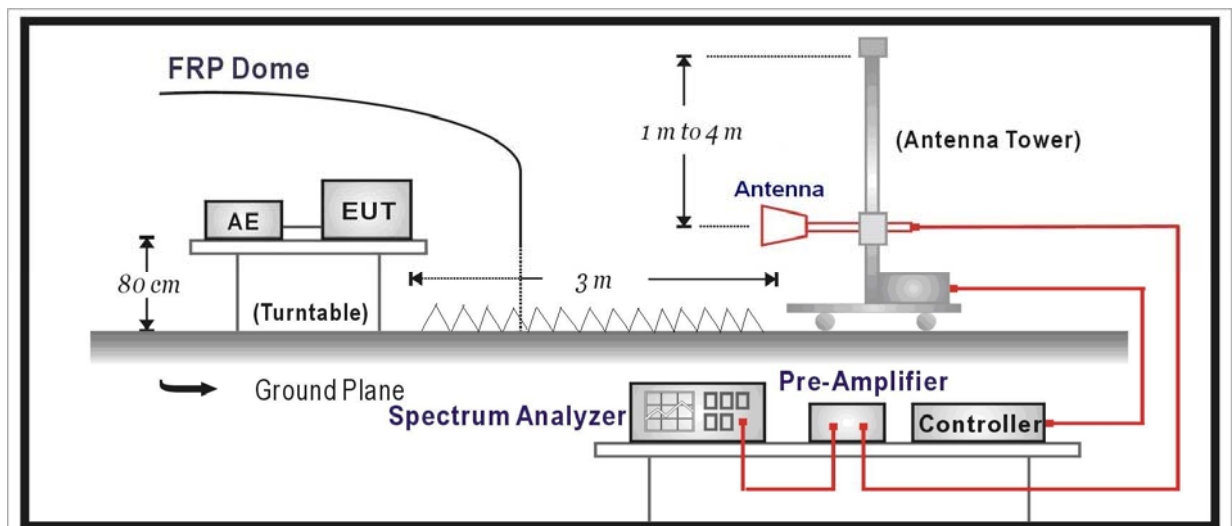
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4 or RSS-GEN

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 3 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 3 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 3 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

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	V	2496.0	52.0	-5.8	46.2	54(note)	-7.8	PK
	H	3864.5	48.2	-2.8	45.4	54(note)	-8.6	PK
	V	3864.5	49.5	-2.8	46.7	54(note)	-7.3	PK
	H	7188.0	39.9	7.2	47.1	54(note)	-6.9	PK
6	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	H	2615.0	42.4	-5.5	36.9	54(note)	-17.1	PK
	H	3864.5	47.2	-2.8	44.4	54(note)	-9.6	PK
	V	3864.5	47.7	-2.8	44.9	54(note)	-9.1	PK
	V	7196.5	39.5	7.3	46.8	54(note)	-7.2	PK
11	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	V	2496.0	50.9	-5.8	45.1	54(note)	-8.9	PK
	H	3864.5	47.7	-2.8	44.9	54(note)	-9.1	PK
	V	3864.5	48.8	-2.8	46.0	54(note)	-8.0	PK
	V	4978.0	45.4	0.5	45.9	54(note)	-8.1	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
1	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	V	2496.0	50.9	-5.8	45.1	54(note)	-8.9	PK
	H	3864.5	47.7	-2.8	44.9	54(note)	-9.1	PK
	V	3864.5	49.3	-2.8	46.5	54(note)	-7.5	PK
	V	4995.0	46.9	0.4	47.3	54(note)	-6.7	PK
6	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	H	2615.0	42.4	-5.5	36.9	54(note)	-17.1	PK
	H	3864.5	47.2	-2.8	44.4	54(note)	-9.6	PK
	V	3864.5	47.7	-2.8	44.9	54(note)	-9.1	PK
	V	7196.5	39.5	7.3	46.8	54(note)	-7.2	PK
11	V	33.9	37.3	-6.1	31.2	40	-8.2	QP
	V	264.3	41.2	-8.5	32.7	46	-13.3	QP
	V	403.0	34.9	-4.8	30.1	46	-15.9	QP
	V	699.8	36.5	-0.7	35.8	46	-10.2	QP
	V	2487.5	50.9	-5.8	45.1	54(note)	-8.9	PK
	H	3864.5	48.7	-2.8	45.9	54(note)	-8.1	PK
	V	3864.5	49.6	-2.8	46.8	54(note)	-7.2	PK
	H	7519.5	40.4	6.8	47.2	54(note)	-6.2	PK

Note: 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.