

Test Report

Compliance with Industry Canada Interference-Causing
Equipment Standard RSS-Gen, RSS-210 and FCC Part15.247

Product Name : Eee PC
Model No. : Eee PC 1005HA, Eee PC1005HAB,
Eee PC 1005HV
FCC ID : MSQE05NE785
IC ID : 3568A-E05NE785

Applicant : ASUSTEK COMPUTER INC.

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

Date of Receipt : 2009/04/16

Issued Date : 2009/04/30

Report No. : 095S002R-RF-US-P05V01

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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Laboratory Information

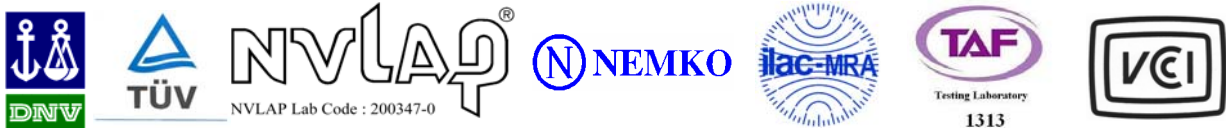
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1. General Information

1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee PC 1005HA, Eee PC1005HAB, Eee PC 1005HV
FCC ID	MSQE05NE785
IC ID	3568A-E05NE785

Note:

The EUT is including three models for different marketing requirement.

WLAN	Atheros / AR5B95
Working Voltage	DC 3.3V
Frequency Range	802.11b/g/n(20MHz): 2412 - 2462 MHz 802.11n(40MHz): 2422 - 2452 MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 135 Mbps
Channel Control	Auto
Antenna Type	PIFA
Antenna Gain	Refer to the "Antenna List"

Component	
Adapter	Manufacturer: PI M/N: AD6630 Input: AC 100-240V~, 50/60Hz, 1.0A Output: 19V, 2.1A

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

802.11b/g/n Antenna List

Antenna	Manufacturer	Model No.	Peak Gain
Combined Antenna	YAGEO	TX1: CAN4313908012501B	2.4GHz: 0.59dBi
Combined Antenna	YAGEO	TX1: CAN4313908032501B	2.4GHz: 0.59dBi
Combined Antenna	ACON	TX1: AMP6P-700052	2.4GHz: 1.4dBi
Combined Antenna	ACON	TX1: AMP6P-700053	2.4GHz: 1.4dBi

Note: During follow testing, we used the higher gain (ACON) of above for combined antennas.

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 802.11n (20MHz Bandwidth)
Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Note:

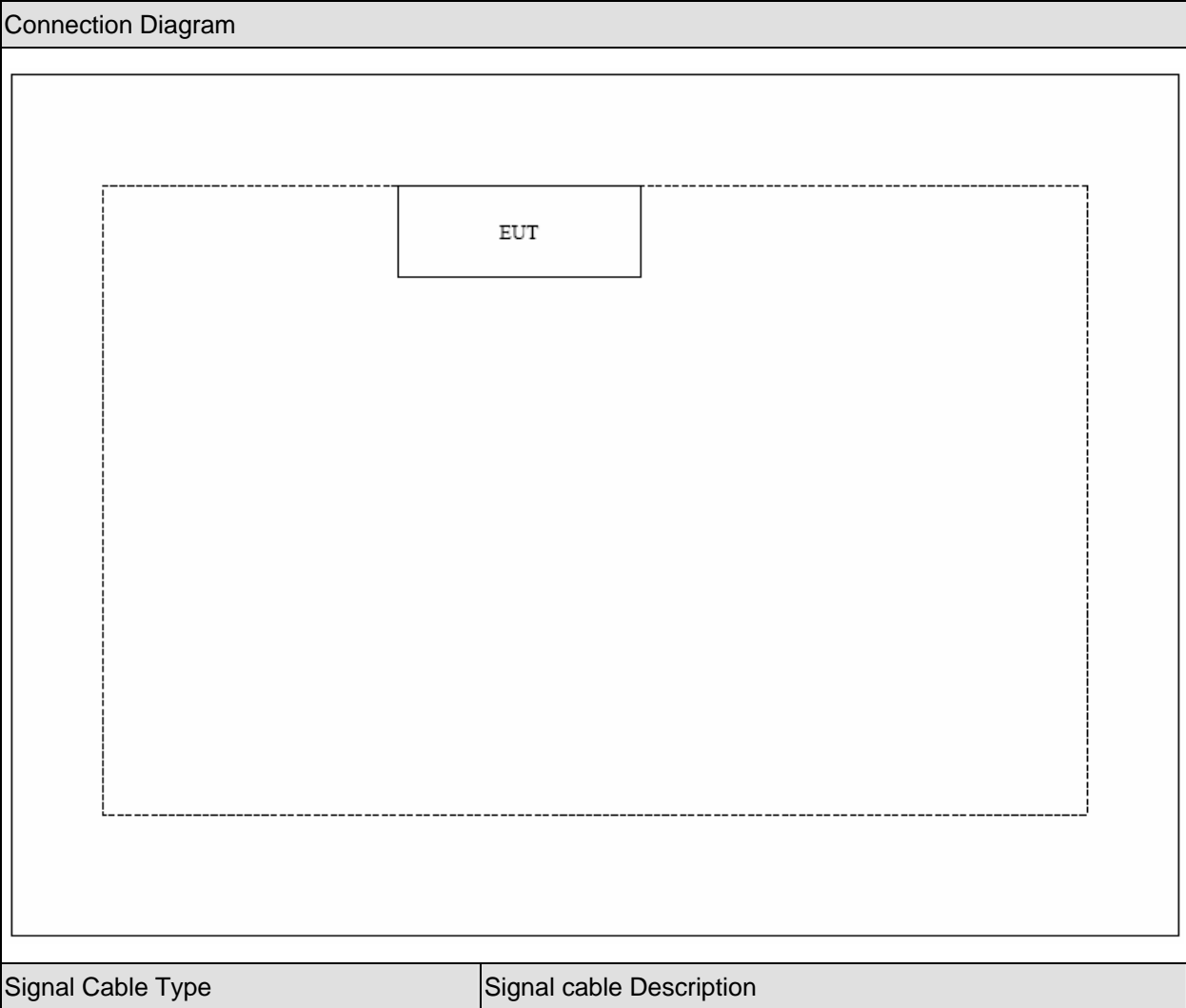
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 095S001-IT-US-P01V02, certified under Declaration of Conformity.

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	N/A	N/A	N/A	N/A	N/A

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 and run control software "ART" provided by applicant.
3	Select wireless mode bandwidth and channel for test; click the "Start Transmit" button.

2. Technical Test

2.1. Summary of Test Result

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

For FCC Part15.247

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

For RSS-GEN&RSS-210

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 2 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

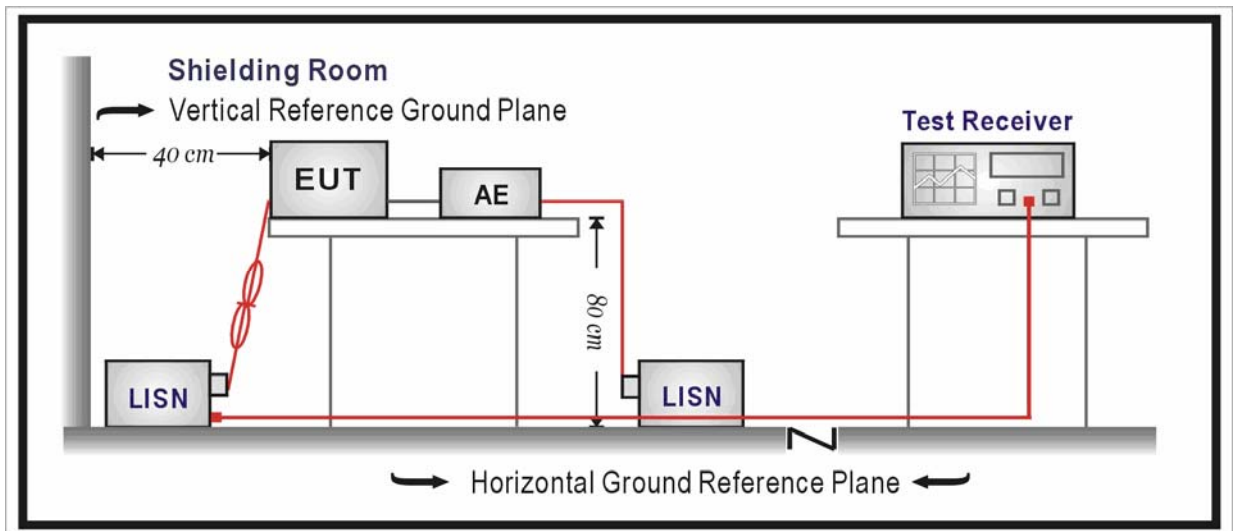
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2008/02/07
Two-Line V-Network	R&S	ENV216	100013	2008/06/28
Two-Line V-Network	R&S	ENV216	100014	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2008/11/24
50ohm Termination	SHX	TF2	07081401	2008/09/28
Coaxial Cable	Luthi	RG214	519358	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2008/03/31

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 9kHz.

3.5. Uncertainty

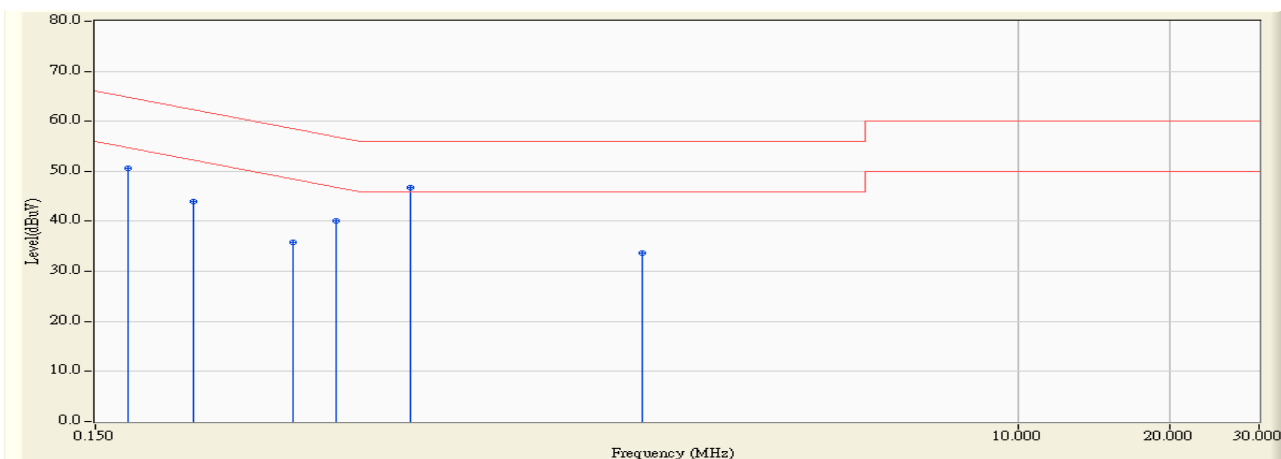
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:12
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b

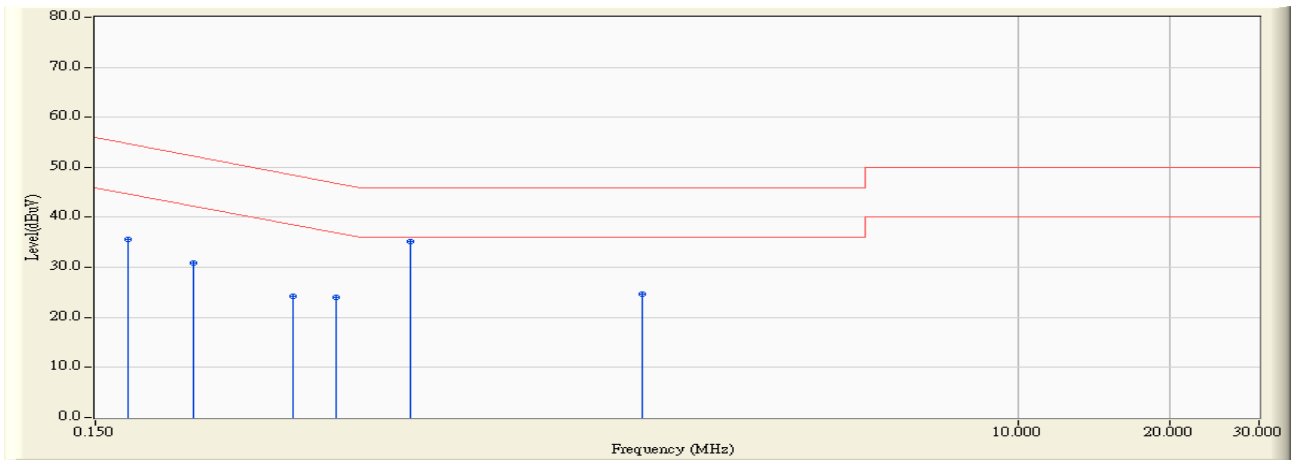


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:14
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b



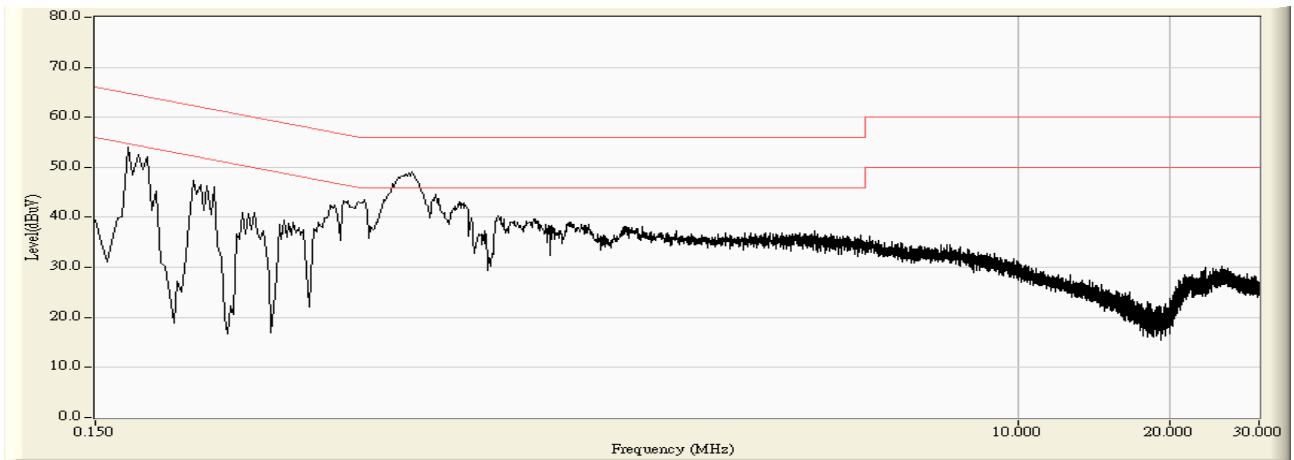
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.929	40.700	50.629	-14.685	65.314	QUASIPeAK
2		0.234	9.450	34.600	44.050	-19.550	63.600	QUASIPeAK
3		0.370	9.541	26.200	35.741	-23.973	59.714	QUASIPeAK
4		0.450	9.594	30.600	40.194	-17.235	57.429	QUASIPeAK
5	*	0.630	9.657	37.200	46.857	-9.143	56.000	QUASIPeAK
6		1.810	9.680	23.900	33.580	-22.420	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:14
Limit : FCC_Part15_B_00M_AV	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b

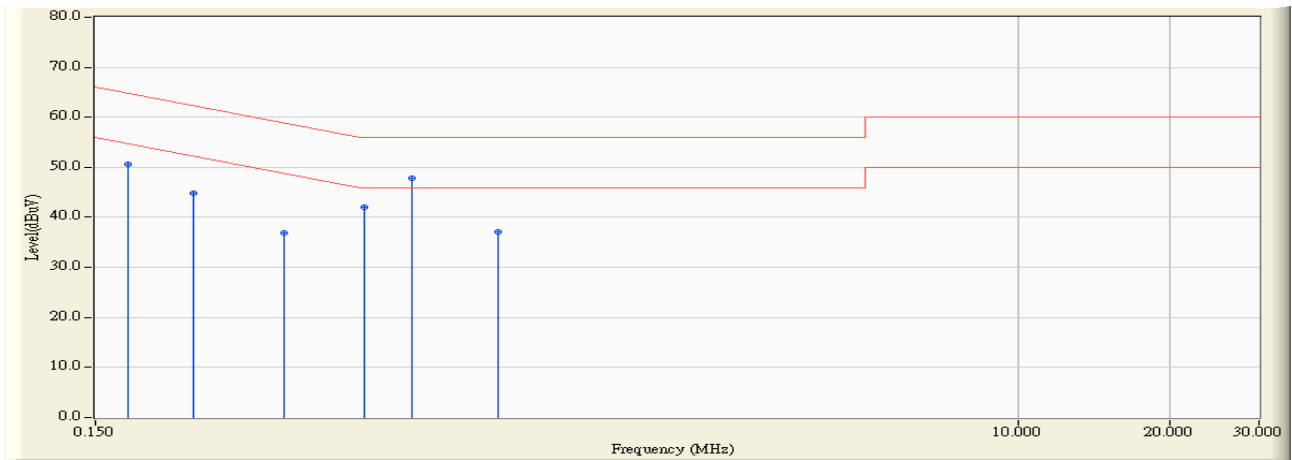


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.929	25.700	35.629	-19.685	55.314	AVERAGE
2		0.234	9.450	21.500	30.950	-22.650	53.600	AVERAGE
3		0.370	9.541	14.600	24.141	-25.573	49.714	AVERAGE
4		0.450	9.594	14.500	24.094	-23.335	47.429	AVERAGE
5	*	0.630	9.657	25.500	35.157	-10.843	46.000	AVERAGE
6		1.810	9.680	14.900	24.580	-21.420	46.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:16
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b

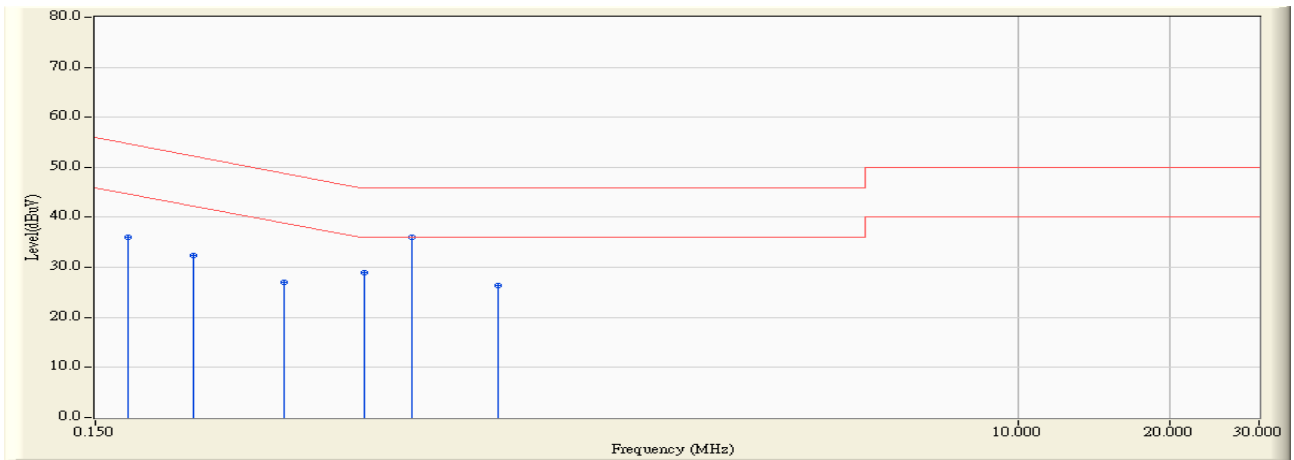


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:18
Limit : FCC_Part15_B_00M_QP	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.864	40.800	50.664	-14.650	65.314	QUASIPeAK
2		0.234	9.580	35.200	44.780	-18.820	63.600	QUASIPeAK
3		0.354	9.595	27.300	36.895	-23.276	60.171	QUASIPeAK
4		0.510	9.627	32.500	42.127	-13.873	56.000	QUASIPeAK
5	*	0.634	9.717	38.200	47.917	-8.083	56.000	QUASIPeAK
6		0.938	9.770	27.300	37.070	-18.930	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/04/23 - 07:18
Limit : FCC_Part15_B_00M_AV	Margin : 10
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.864	26.100	35.964	-19.350	55.314	AVERAGE
2		0.234	9.580	22.700	32.280	-21.320	53.600	AVERAGE
3		0.354	9.595	17.500	27.095	-23.076	50.171	AVERAGE
4		0.510	9.627	19.400	29.027	-16.973	46.000	AVERAGE
5	*	0.634	9.717	26.400	36.117	-9.883	46.000	AVERAGE
6		0.938	9.770	16.700	26.470	-19.530	46.000	AVERAGE

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2009/05/09
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/01
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/01
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/01
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/01
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/30

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/01
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/01
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/01
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/01
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24

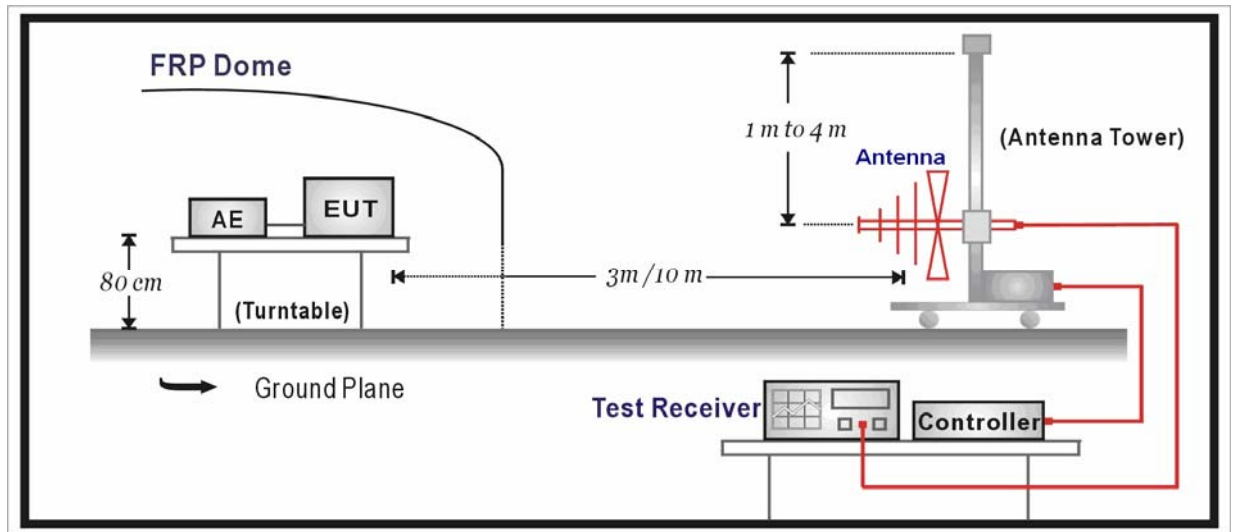
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/30
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

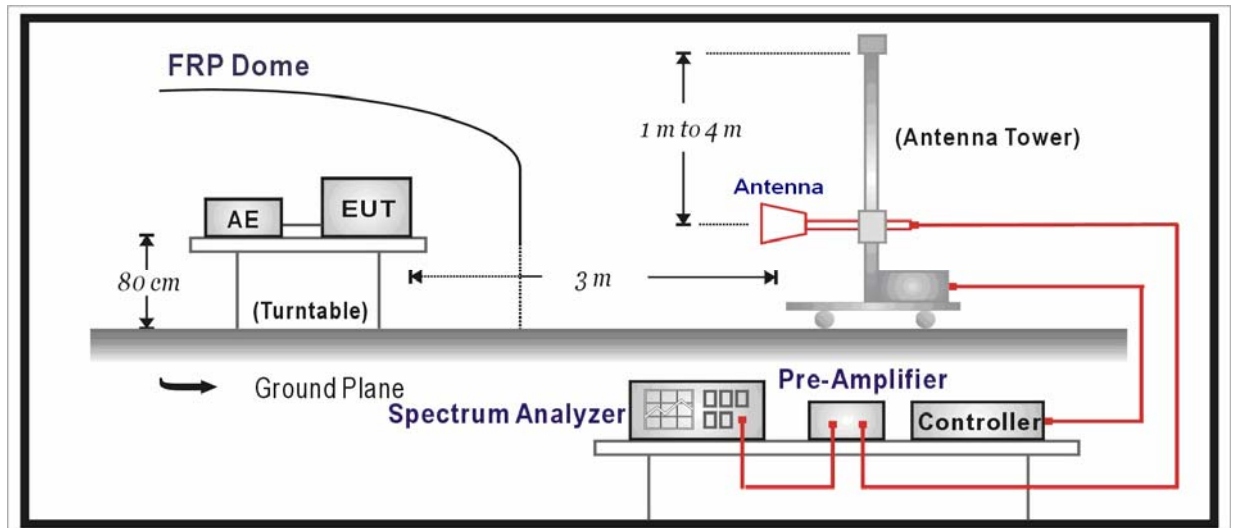
Note 2: The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Under 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 keep the antenna in the “cone of radiation” of EUT. The 3dB beamwidth for this horn antenna is 60 degrees for H-plane and 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

Below 1GHz

Mode 1: 802.11b							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
120.533	H	26.019	43.520	-17.501	QP	120.5	65.8
143.167	H	30.395	43.520	-13.125	QP	120.5	65.8
167.417	H	26.195	43.520	-17.325	QP	114.2	144.8
120.533	V	28.405	43.520	-15.115	QP	114.2	144.8
144.783	V	28.480	43.520	-15.040	QP	120.5	65.8
167.417	V	26.480	43.520	-17.040	QP	120.5	65.0
Channel 6 (2437MHz)							
191.667	H	26.531	43.520	-16.989	QP	120.5	65.8
199.750	H	22.669	43.520	-20.851	QP	120.5	65.8
215.917	H	29.000	43.520	-14.520	QP	114.2	144.8
191.667	V	26.285	43.520	-17.235	QP	114.2	144.8
199.750	V	22.285	43.520	-13.235	QP	120.5	65.8
215.917	V	29.168	43.520	-14.352	QP	120.5	65.0
Channel 11 (2462MHz)							
264.417	H	31.328	46.020	-14.692	QP	120.5	65.8
275.733	H	30.393	46.020	-15.627	QP	120.5	65.8
311.300	H	33.670	46.020	-12.350	QP	114.2	144.8
264.417	V	31.098	46.020	-14.922	QP	114.2	144.8
277.350	V	29.889	46.020	-16.131	QP	120.5	65.8
311.300	V	32.327	46.020	-13.693	QP	120.5	65.8

Mode 2: 802.11g							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
335.550	H	34.432	46.020	-11.588	QP	120.5	65.8
359.800	H	29.181	46.020	-16.839	QP	120.5	65.8
367.883	H	28.575	46.020	-17.445	QP	114.2	144.8
335.550	V	28.076	46.020	-17.944	QP	114.2	144.8
359.800	V	27.449	46.020	-18.571	QP	120.5	65.8
367.883	V	27.764	46.020	-18.256	QP	120.5	65.8
Channel 6 (2437MHz)							
408.300	H	27.839	46.020	-18.181	QP	120.5	65.8
432.550	H	32.937	46.020	-13.083	QP	120.5	65.8
489.133	H	28.286	46.020	-17.734	QP	114.2	144.8
408.300	V	25.834	46.020	-20.186	QP	114.2	144.8
432.550	V	28.729	46.020	-17.291	QP	120.5	65.8
489.133	V	31.650	46.020	-14.370	QP	120.5	65.8
Channel 11 (2462MHz)							
191.667	H	26.531	43.520	-16.989	QP	120.5	65.8
199.750	H	22.669	43.520	-20.851	QP	120.5	65.8
215.917	H	29.000	43.520	-14.520	QP	114.2	144.8
191.667	V	26.285	43.520	-17.235	QP	114.2	144.8
199.750	V	22.285	43.520	-13.235	QP	120.5	65.8
215.917	V	29.168	43.520	-14.352	QP	120.5	65.8

Mode 3: 802.11n(20MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
120.533	H	26.019	43.520	-17.501	QP	120.5	65.8
143.167	H	30.395	43.520	-13.125	QP	120.5	65.8
167.417	H	26.195	43.520	-17.325	QP	114.2	144.8
120.533	V	28.405	43.520	-15.115	QP	114.2	144.8
144.783	V	28.480	43.520	-15.040	QP	120.5	65.8
167.417	V	26.480	43.520	-17.040	QP	120.5	65.8
Channel 6 (2437MHz)							
191.667	H	26.531	43.520	-16.989	QP	120.5	65.8
199.750	H	22.669	43.520	-20.851	QP	120.5	65.8
215.917	H	29.000	43.520	-14.520	QP	114.2	144.8
191.667	V	26.285	43.520	-17.235	QP	114.2	144.8
199.750	V	22.285	43.520	-13.235	QP	120.5	65.8
215.917	V	29.168	43.520	-14.352	QP	120.5	65.8
Channel 11 (2462MHz)							
264.417	H	31.328	46.020	-14.692	QP	120.5	65.8
275.733	H	30.393	46.020	-15.627	QP	120.5	65.8
311.300	H	33.670	46.020	-12.350	QP	114.2	144.8
264.417	V	31.098	46.020	-14.922	QP	114.2	144.8
277.350	V	29.889	46.020	-16.131	QP	120.5	65.8
311.300	V	32.327	46.020	-13.693	QP	120.5	65.8

Mode 4: 802.11n(40MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
335.550	H	34.432	46.020	-11.588	QP	120.5	65.8
359.800	H	29.181	46.020	-16.839	QP	120.5	65.8
367.883	H	28.575	46.020	-17.445	QP	114.2	144.8
335.550	V	28.076	46.020	-17.944	QP	114.2	144.8
359.800	V	27.449	46.020	-18.571	QP	120.5	65.8
367.883	V	27.764	46.020	-18.256	QP	120.5	65.8
Channel 6 (2437MHz)							
408.300	H	27.839	46.020	-18.181	QP	120.5	65.8
432.550	H	32.937	46.020	-13.083	QP	120.5	65.8
489.133	H	28.286	46.020	-17.734	QP	114.2	144.8
408.300	V	25.834	46.020	-20.186	QP	114.2	144.8
432.550	V	28.729	46.020	-17.291	QP	120.5	65.8
489.133	V	31.650	46.020	-14.370	QP	120.5	65.8
Channel 9 (2452MHz)							
191.667	H	26.531	43.520	-16.989	QP	120.5	65.8
199.750	H	22.669	43.520	-20.851	QP	120.5	65.8
215.917	H	29.000	43.520	-14.520	QP	114.2	144.8
191.667	V	26.285	43.520	-17.235	QP	114.2	144.8
199.750	V	22.285	43.520	-13.235	QP	120.5	65.8
215.917	V	29.168	43.520	-14.352	QP	120.5	65.8

Above 1GHz

Mode 1: 802.11b							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
3210.0	H	44.61	74	-29.39	PK	120.5	65.8
3210.0	H	30.03	54	-23.97	AV	120.5	65.8
4995.0	H	51.96	74	-22.04	PK	114.2	144.8
4995.0	H	37.36	54	-16.64	AV	114.2	144.8
3210.0	V	42.10	74	-31.90	PK	120.5	65.8
3210.0	V	28.58	54	-25.42	AV	120.5	65.8
4995.0	V	46.32	74	-27.68	PK	114.2	144.8
4995.0	V	32.21	54	-21.79	AV	114.2	144.8
Channel 6 (2437MHz)							
3238.3	H	43.22	74	-30.78	PK	120.5	65.8
3238.3	H	28.27	54	-25.73	AV	120.5	65.8
4995.0	H	47.92	74	-26.08	PK	114.2	144.8
4995.0	H	33.44	54	-20.56	AV	114.2	144.8
3238.3	V	43.29	74	-30.71	PK	120.5	65.8
3238.3	V	28.97	54	-25.03	AV	120.5	65.8
4995.0	V	45.86	74	-28.14	PK	114.2	144.8
4995.0	V	31.57	54	-22.43	AV	114.2	144.8
Channel 11 (2462MHz)							
3295.0	H	43.41	74	-30.59	PK	120.5	65.8
3295.0	H	29.55	54	-24.45	AV	120.5	65.8
4995.0	H	48.95	74	-25.05	PK	114.2	144.8
4995.0	H	34.42	54	-19.58	AV	114.2	144.8
3295.0	V	43.82	74	-30.18	PK	120.5	65.8
3295.0	V	29.77	54	-24.23	AV	120.5	65.8
4995.0	V	48.78	74	-25.22	PK	114.2	144.8
4995.0	V	34.48	54	-19.52	AV	114.2	144.8

Mode 2: 802.11g							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
3295.0	H	42.52	74	-31.48	PK	120.5	65.8
3295.0	H	28.32	54	-25.68	AV	120.5	65.8
4995.0	H	49.41	74	-24.59	PK	114.2	144.8
4995.0	H	35.57	54	-18.43	AV	114.2	144.8
3295.0	V	39.02	74	-34.98	PK	120.5	65.8
3295.0	V	25.86	54	-28.14	AV	120.5	65.8
4995.0	V	48.16	74	-25.84	PK	114.2	144.8
4995.0	V	34.17	54	-19.83	AV	114.2	144.8
Channel 6 (2437MHz)							
3238.3	H	42.25	74	-31.75	PK	120.5	65.8
3238.3	H	28.55	54	-25.45	AV	120.5	65.8
4995.0	H	46.46	74	-27.54	PK	114.2	144.8
4995.0	H	32.57	54	-21.43	AV	114.2	144.8
3238.3	V	41.01	74	-32.99	PK	120.5	65.8
3238.3	V	27.57	54	-26.43	AV	120.5	65.8
4995.0	V	44.82	74	-29.18	PK	114.2	144.8
4995.0	V	30.54	54	-23.46	AV	114.2	144.8
Channel 11 (2462MHz)							
3295.0	H	40.35	74	-33.65	PK	120.5	65.8
3295.0	H	26.31	54	-27.69	AV	120.5	65.8
4995.0	H	49.51	74	-24.49	PK	114.2	144.8
4995.0	H	35.22	54	-18.78	AV	114.2	144.8
3295.0	V	40.07	74	-33.93	PK	120.5	65.8
3295.0	V	26.15	54	-27.85	AV	120.5	65.8
4995.0	V	45.39	74	-28.61	PK	114.2	144.8
4995.0	V	31.22	54	-22.78	AV	114.2	144.8

Mode 3: 802.11n(20MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
3210.0	H	46.37	74	-27.63	PK	120.5	65.8
3210.0	H	32.32	54	-21.68	AV	120.5	65.8
4853.3	H	47.32	74	-26.68	PK	114.2	144.8
4853.3	H	33.57	54	-20.43	AV	114.2	144.8
3210.0	V	44.76	74	-29.24	PK	120.5	65.8
3210.0	V	30.46	54	-23.54	AV	120.5	65.8
4853.3	V	47.69	74	-26.31	PK	114.2	144.8
4853.3	V	33.57	54	-20.43	AV	114.2	144.8
Channel 6 (2437MHz)							
3238.3	H	46.15	74	-27.85	PK	120.5	65.8
3238.3	H	32.55	54	-21.45	AV	120.5	65.8
4881.7	H	50.33	74	-23.67	PK	114.2	144.8
4881.7	H	36.57	54	-17.43	AV	114.2	144.8
3238.3	V	46.19	74	-27.81	PK	120.5	65.8
3238.3	V	32.57	54	-21.43	AV	120.5	65.8
4881.7	V	50.38	74	-23.62	PK	114.2	144.8
4881.6	V	36.24	54	-17.76	AV	114.2	144.8
Channel 11 (2462MHz)							
3295.0	H	46.44	74	-27.56	PK	120.5	65.8
3295.0	H	32.35	54	-21.65	AV	120.5	65.8
4938.3	H	53.37	74	-20.63	PK	114.2	144.8
4938.3	H	39.12	54	-14.88	AV	114.2	144.8
3295.0	V	46.50	74	-27.5	PK	120.5	65.8
3295.0	V	32.35	54	-21.65	AV	120.5	65.8
4938.3	V	55.77	74	-18.23	PK	114.2	144.8
4938.3	V	41.52	54	-12.48	AV	114.2	144.8

Mode 4: 802.11n(40MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
3238.3	H	45.70	74	-28.3	PK	120.5	65.8
3238.3	H	31.34	54	-22.66	AV	120.5	65.8
4995.0	H	47.16	74	-26.84	PK	114.2	144.8
4995.0	H	33.17	54	-20.83	AV	114.2	144.8
3238.3	V	44.38	74	-29.62	PK	120.5	65.8
3238.3	V	30.32	54	-23.68	AV	120.5	65.8
4995.0	V	49.35	74	-24.65	PK	114.2	144.8
4995.0	V	35.27	54	-18.73	AV	114.2	144.8
Channel 6 (2437MHz)							
3238.3	H	45.99	74	-28.01	PK	120.5	65.8
3238.3	H	31.55	54	-22.45	AV	120.5	65.8
4995.0	H	48.63	74	-25.37	PK	114.2	144.8
4995.0	H	34.57	54	-19.43	AV	114.2	144.8
3238.3	V	44.85	74	-29.15	PK	120.5	65.8
3238.3	V	30.57	54	-23.43	AV	120.5	65.8
4881.7	V	44.55	74	-29.45	PK	114.2	144.8
4881.6	V	30.44	54	-23.56	AV	114.2	144.8
Channel 9 (2452MHz)							
3266.6	H	45.38	74	-28.62	PK	120.5	65.8
3266.6	H	31.35	54	-22.65	AV	120.5	65.8
4995.0	H	48.51	74	-25.49	PK	114.2	144.8
4995.0	H	34.42	54	-19.58	AV	114.2	144.8
3266.6	V	45.06	74	-28.94	PK	120.5	65.8
3266.6	V	31.05	54	-22.95	AV	120.5	65.8
4995.0	V	49.28	74	-24.72	PK	114.2	144.8
4995.0	V	35.22	54	-18.78	AV	114.2	144.8

5. RF Antenna Conducted Spurious

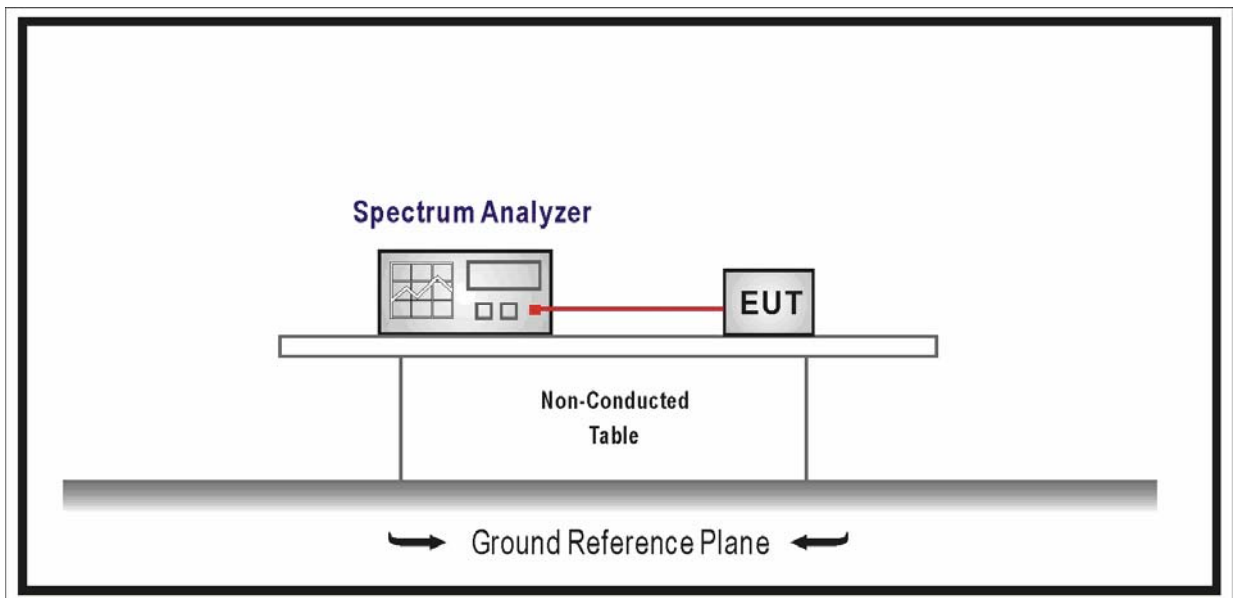
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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.

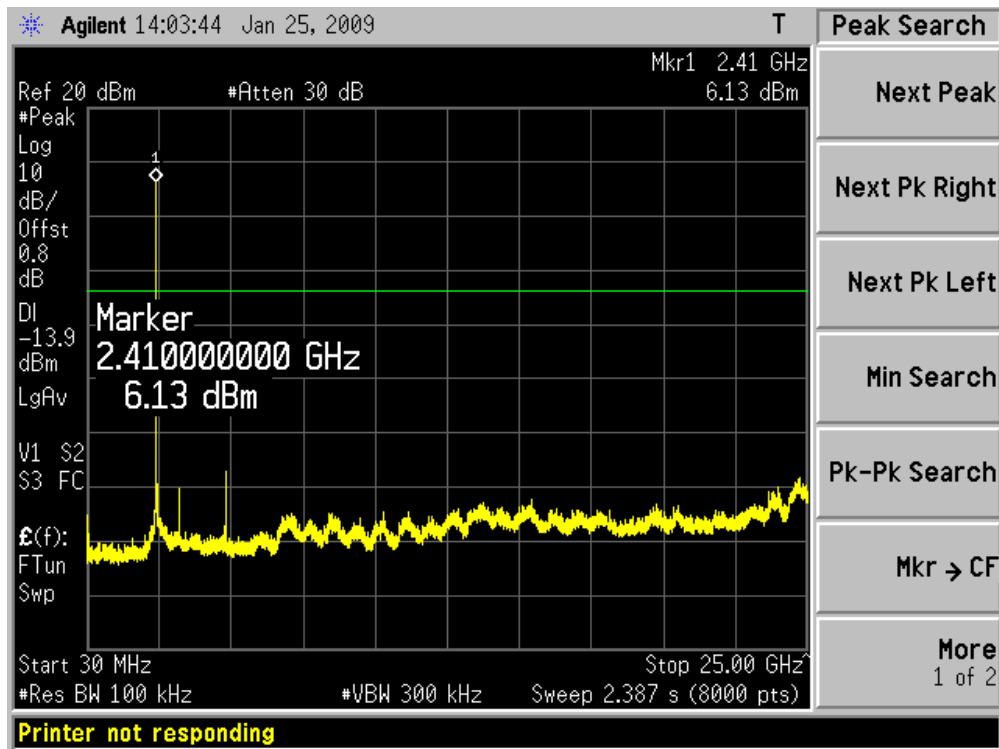
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

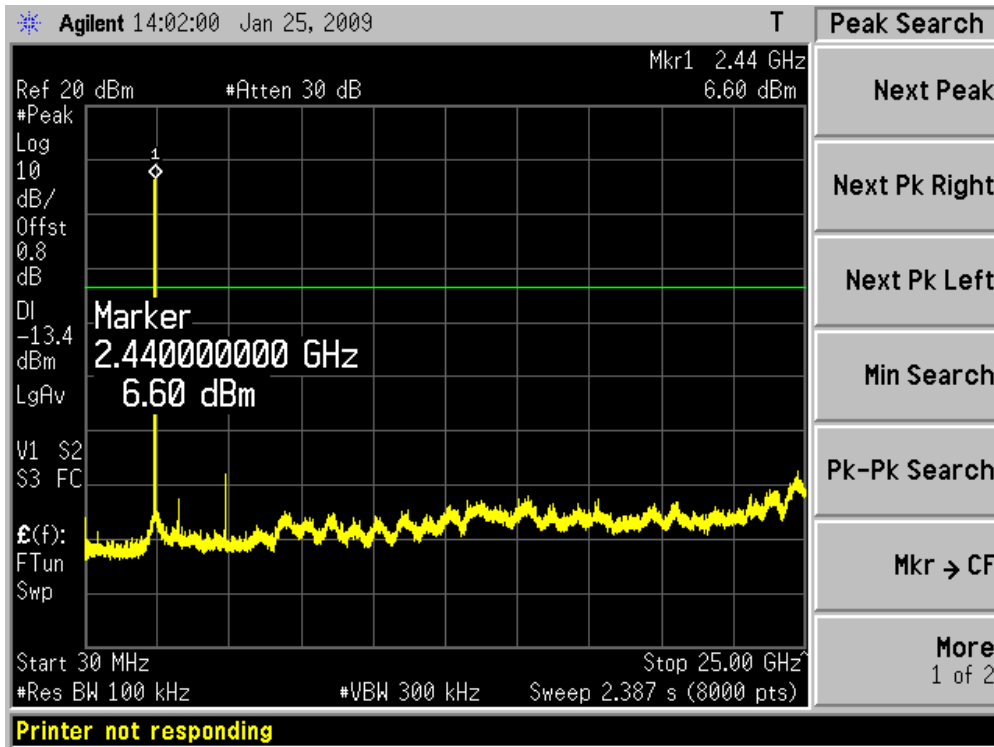
5.6. Test Result

Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

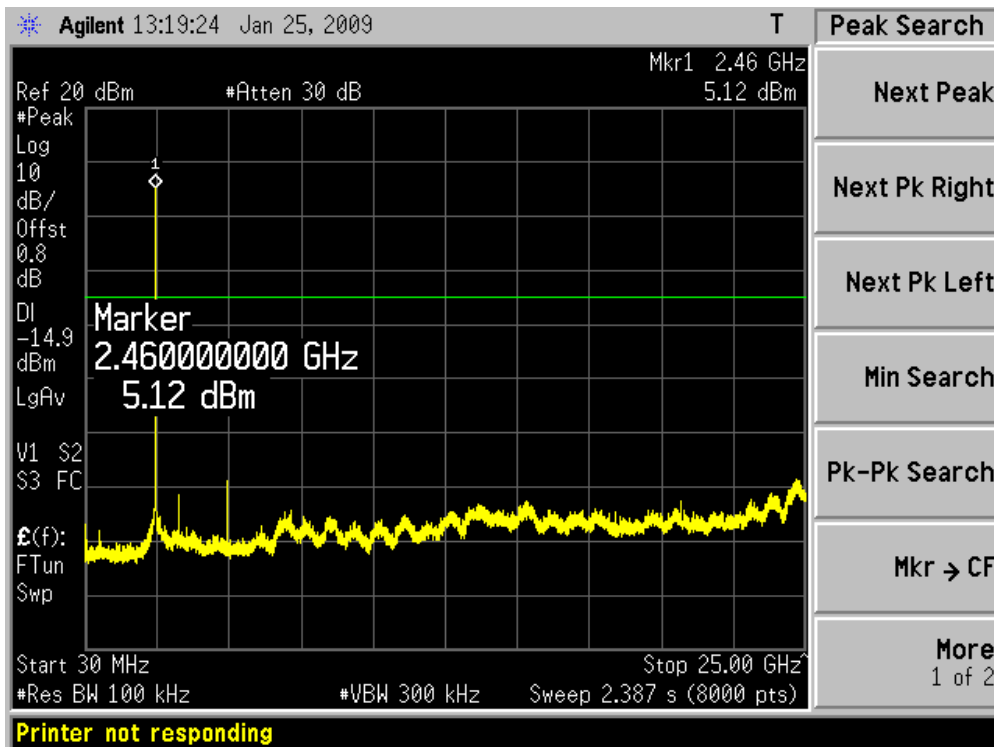
Channel 01 (2412MHz)



Channel 06 (2437MHz)

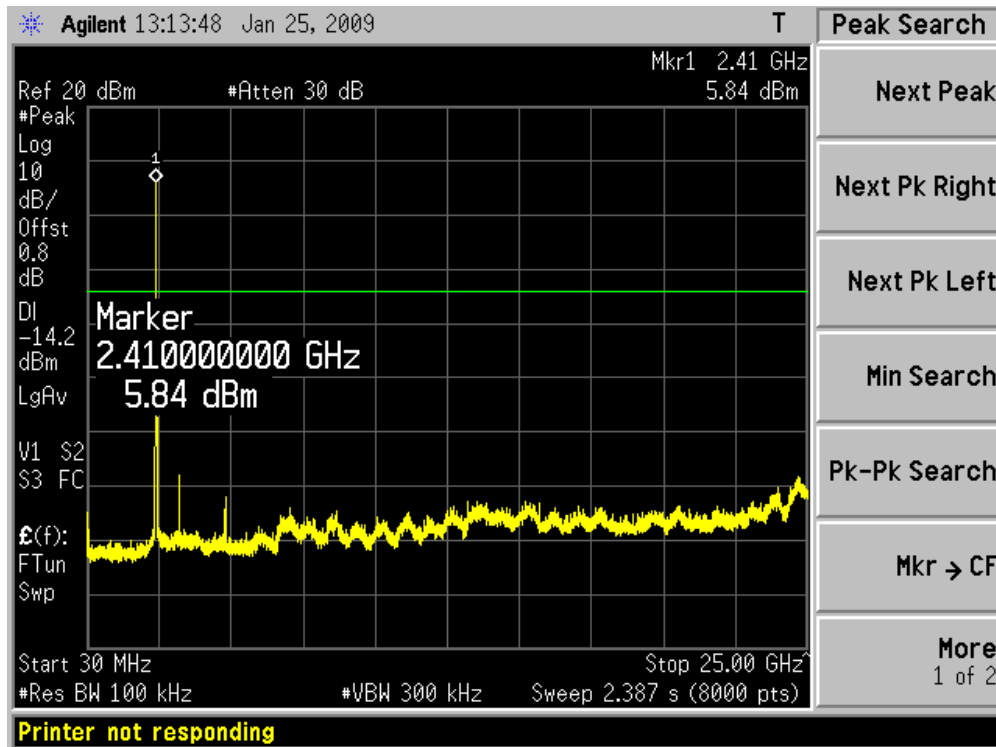


Channel 11 (2462MHz)

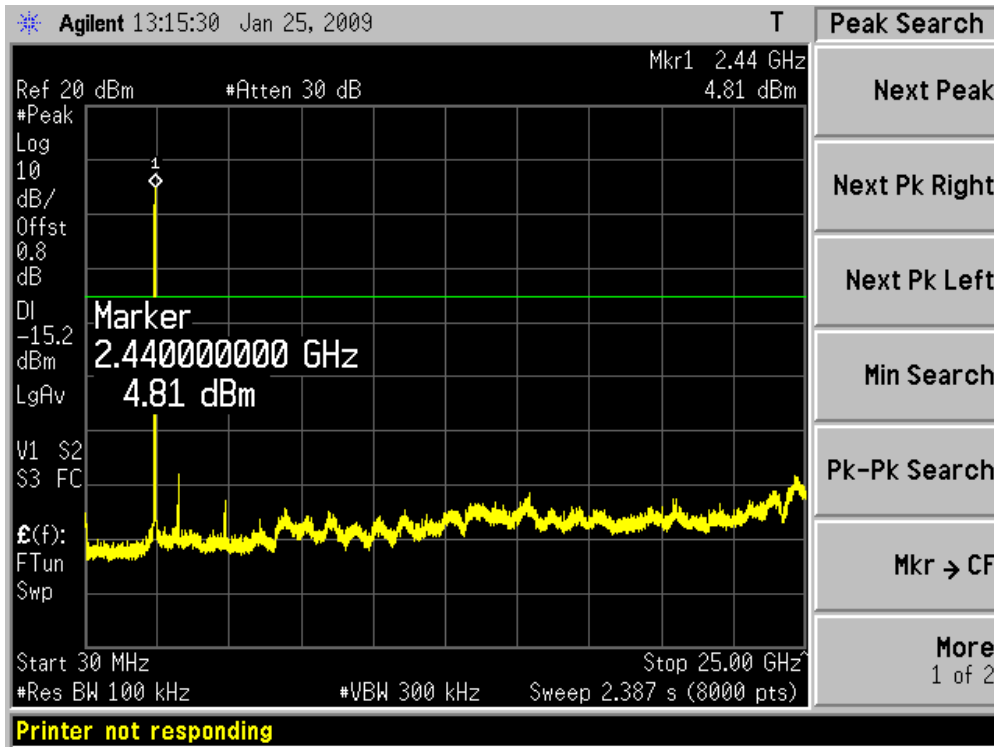


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

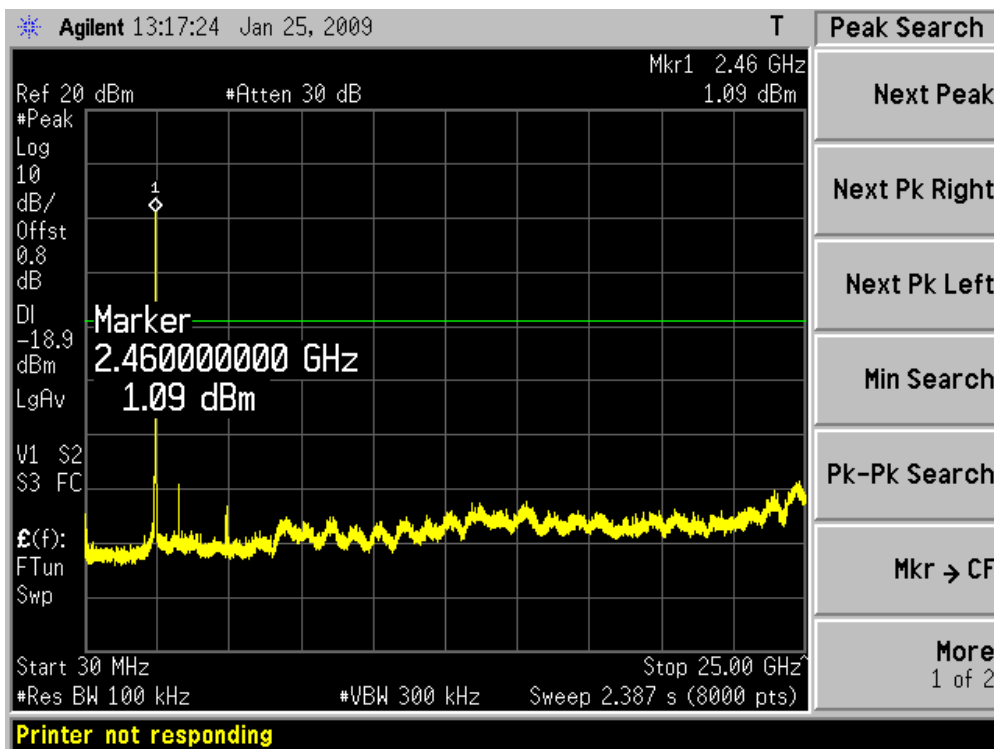
Channel 01 (2412MHz)



Channel 06 (2437MHz)

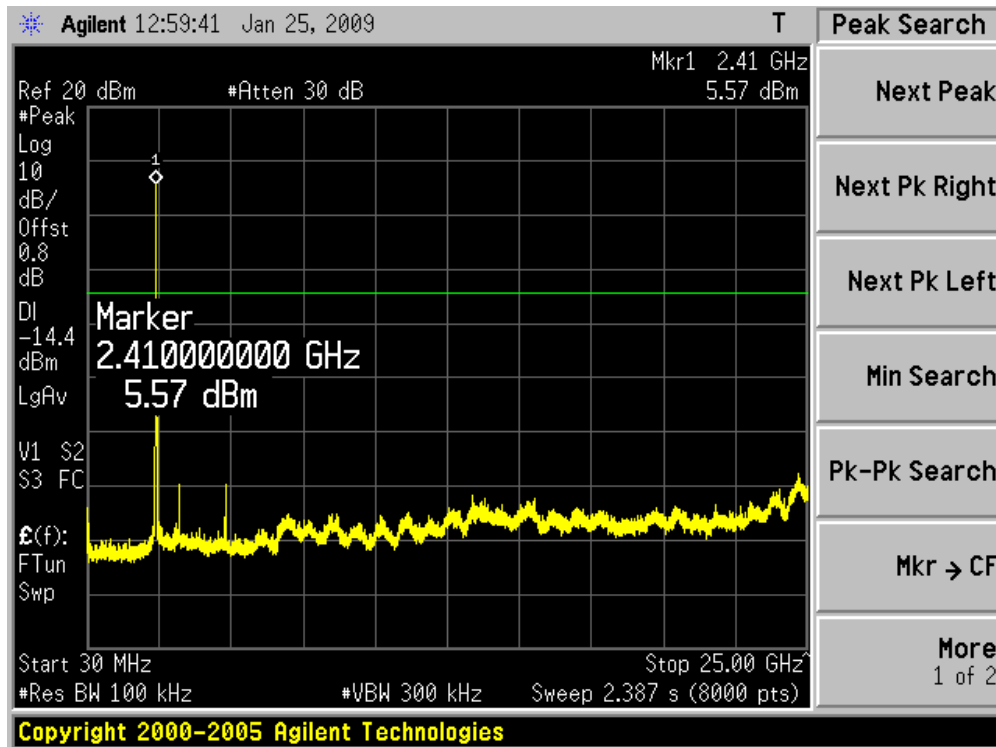


Channel 11 (2462MHz)

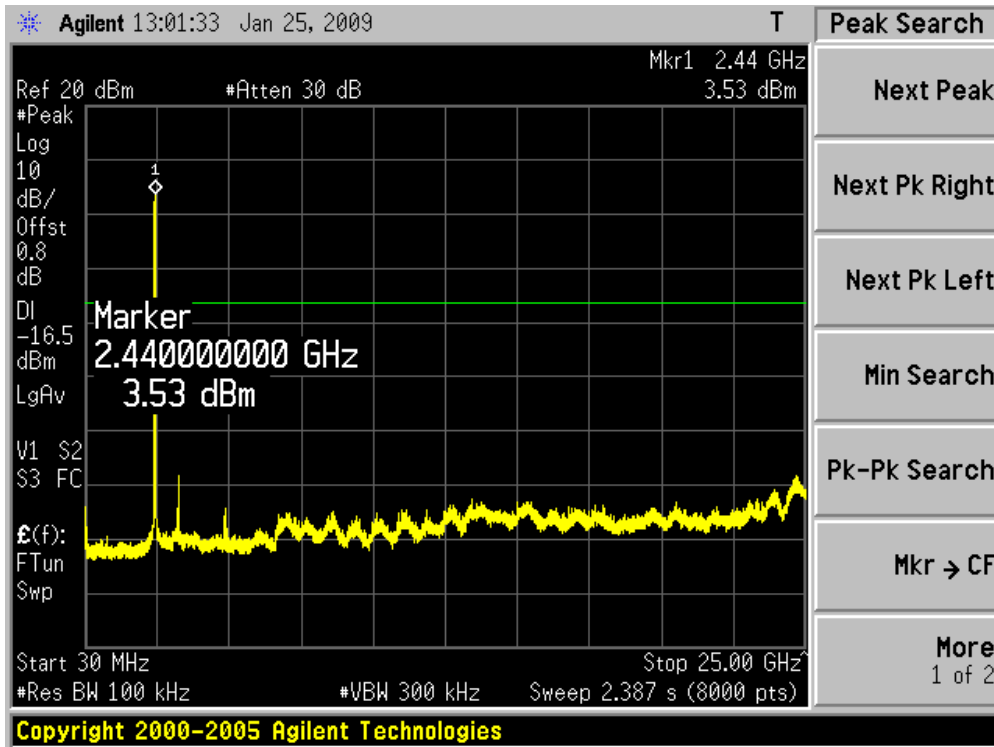


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

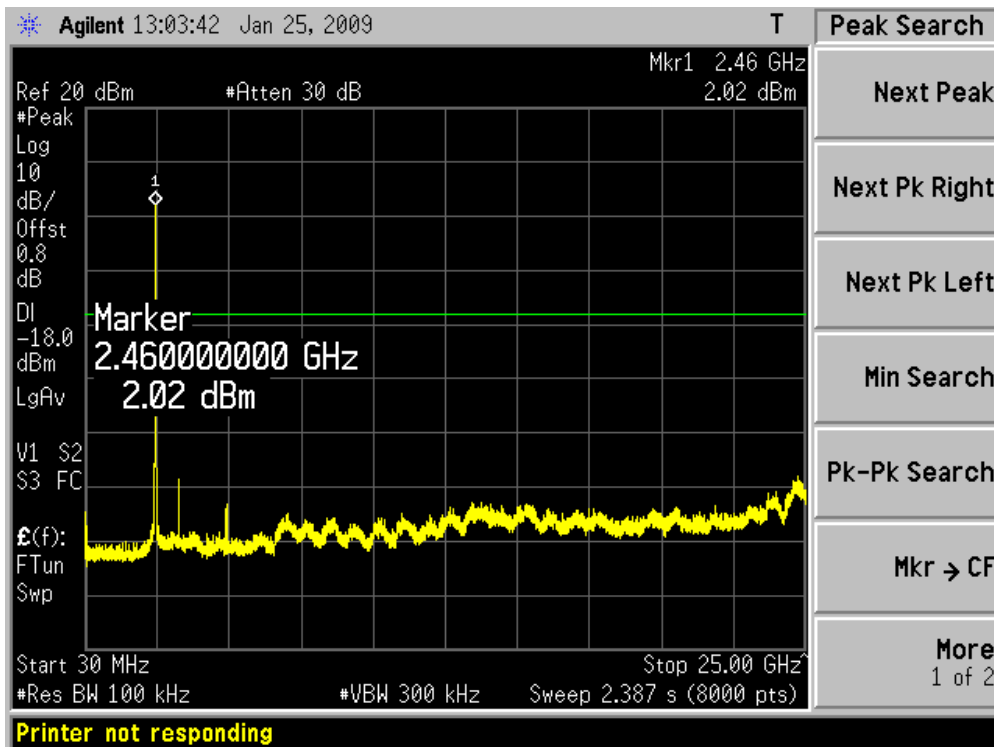
Channel 01 (2412MHz)



Channel 06 (2437MHz)

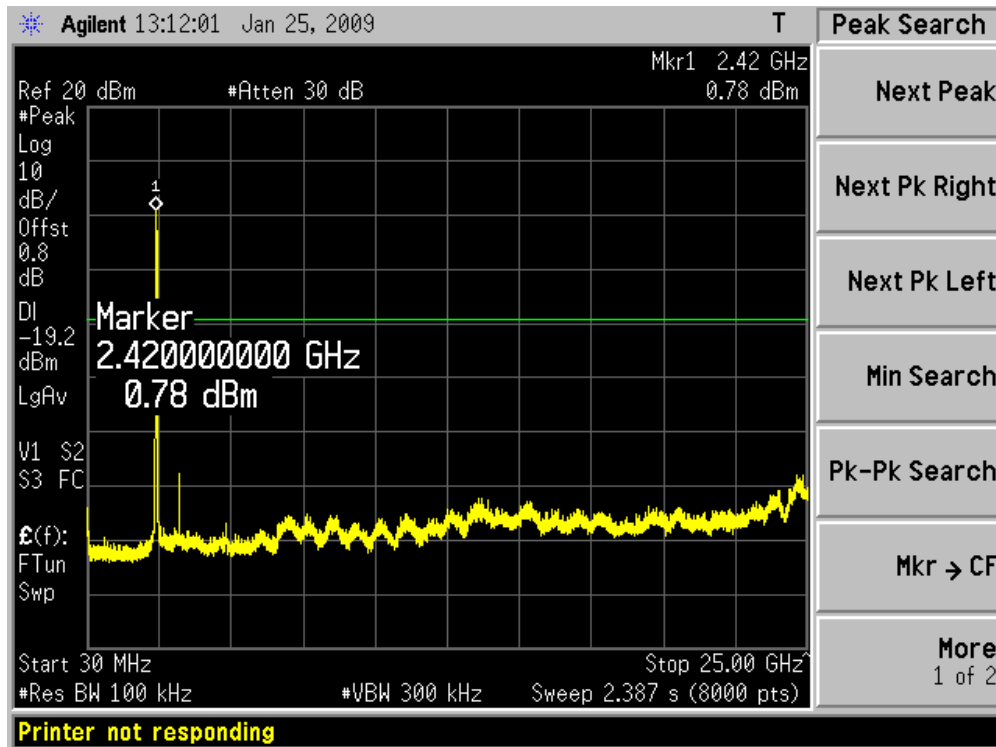


Channel 11 (2462MHz)

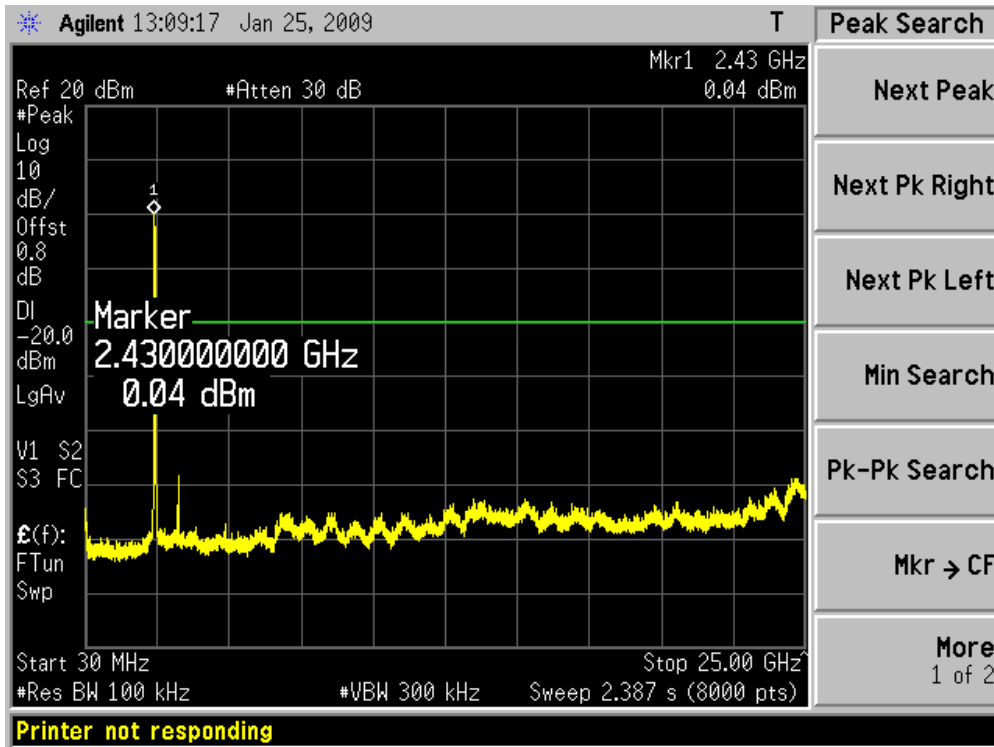


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

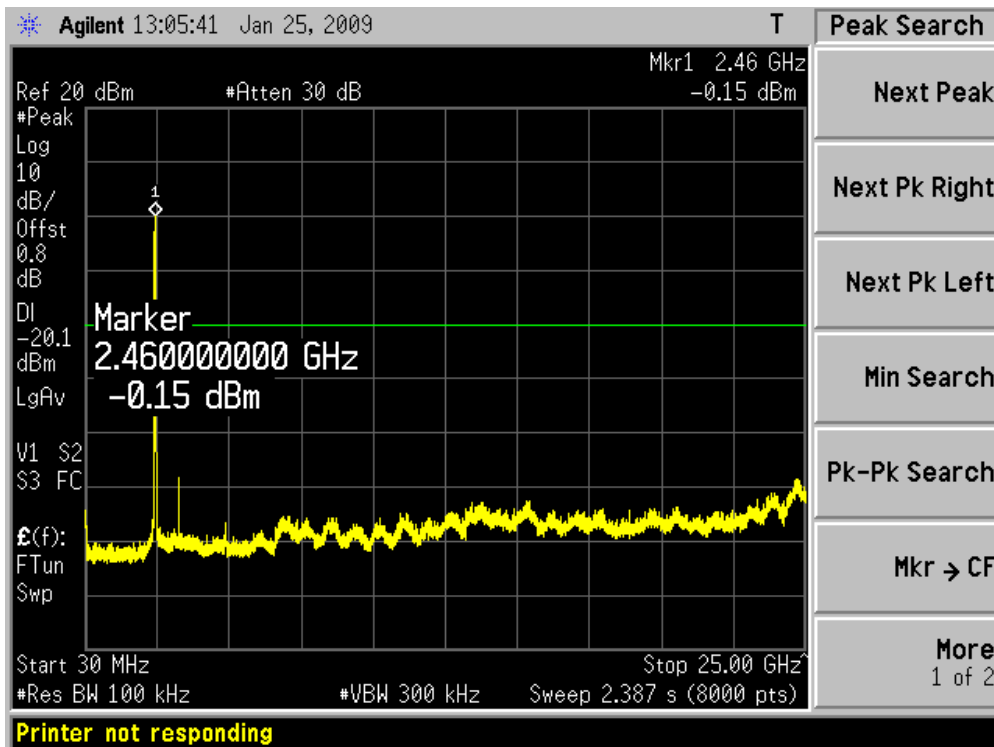
Channel 01 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (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	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2009/05/09
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/30

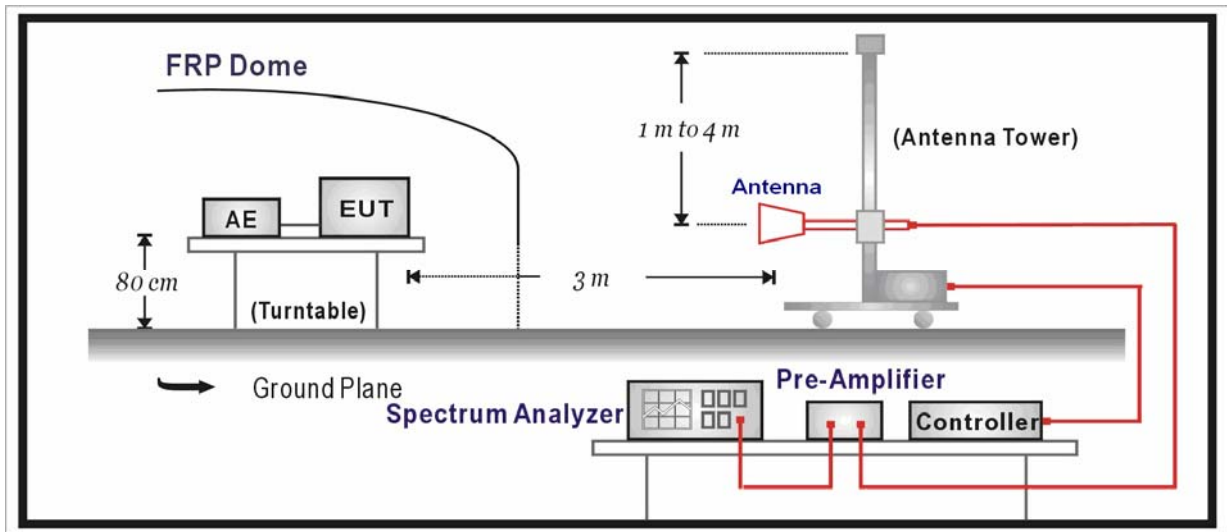
Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
EMI Test Receiver	R&S	ESCI	100176	2008/11/14
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/30

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

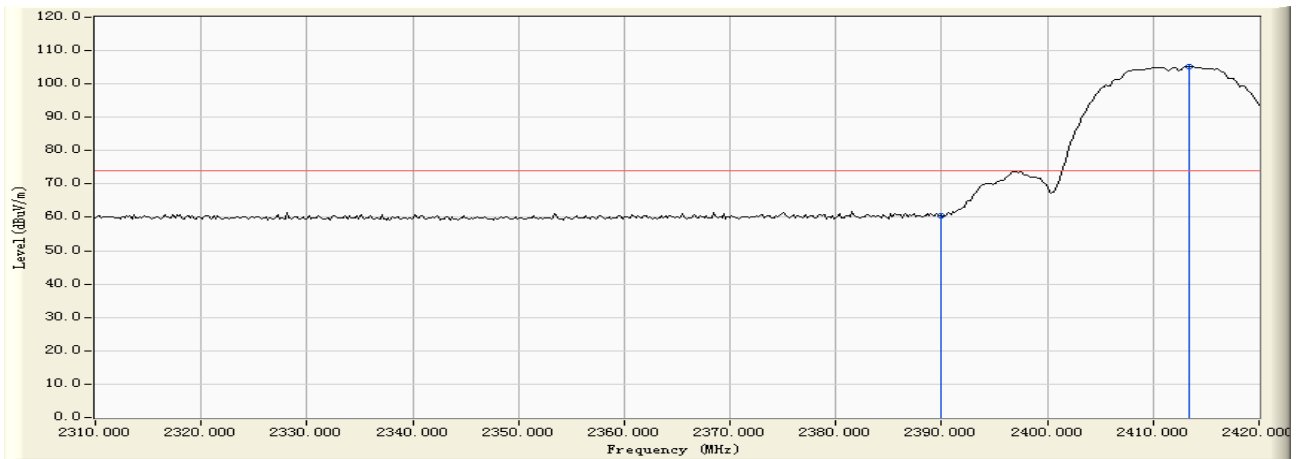
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum 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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2412MHz by 802.11b

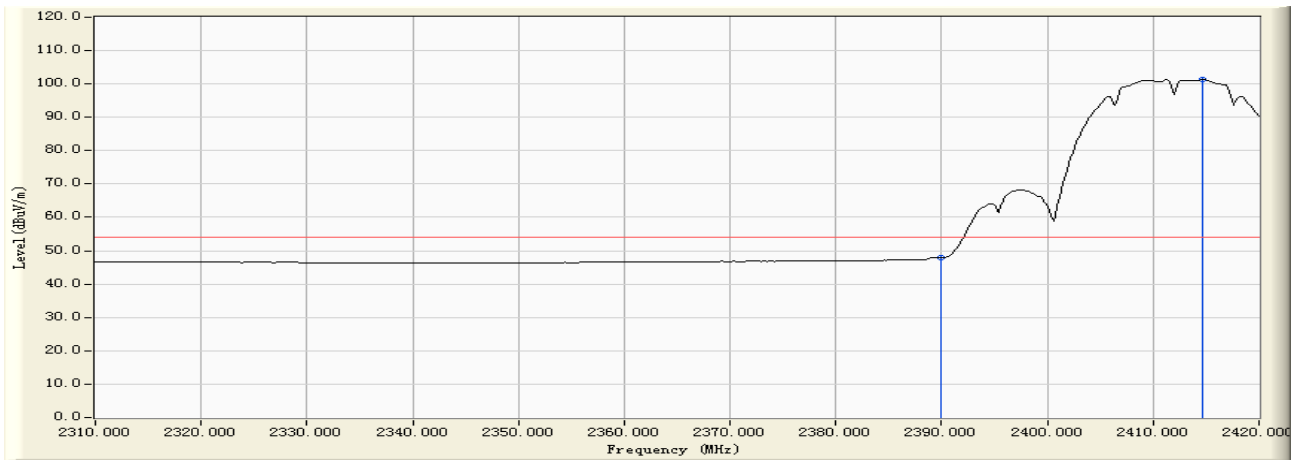


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.701	60.423	-13.547	73.970	PEAK
2	*	2413.400	32.735	72.392	105.126	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2412MHz by 802.11b

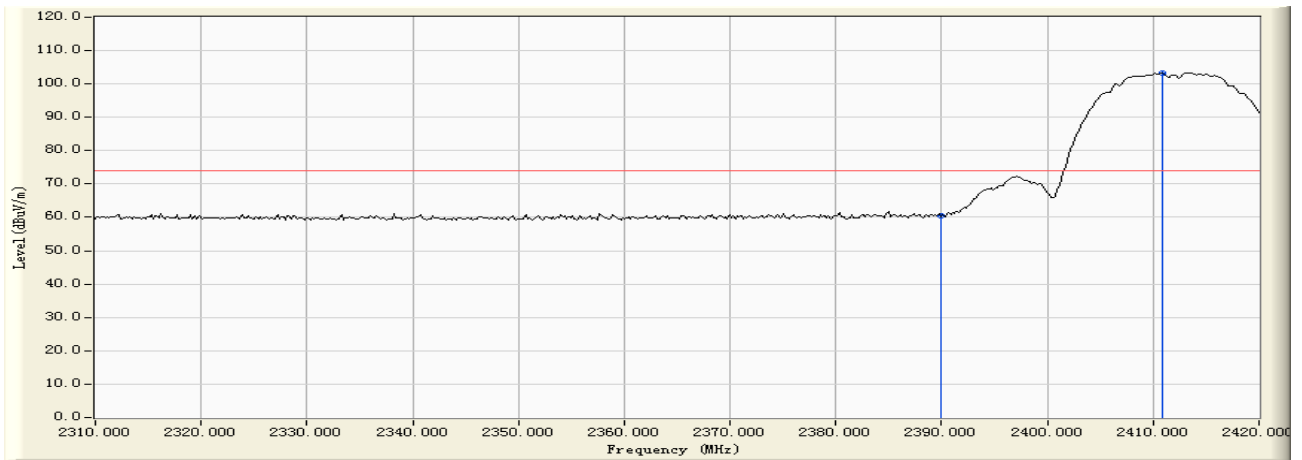


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	15.258	47.980	-5.990	53.970	AVERAGE
2	*	2414.683	32.737	68.565	101.302	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2412MHz by 802.11b

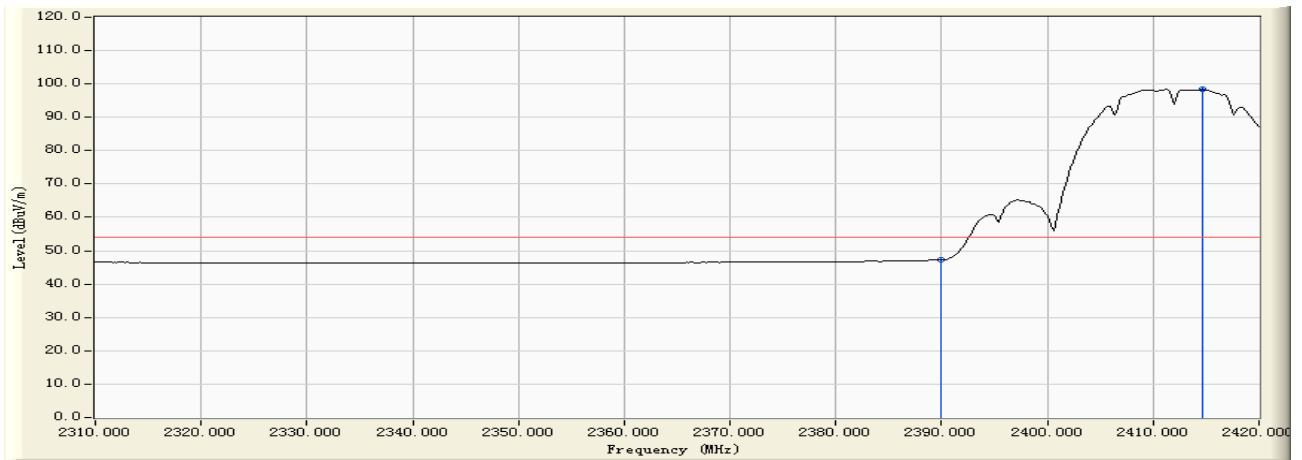


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.800	60.522	-13.448	73.970	PEAK
2	*	2410.833	32.730	70.623	103.353	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:37
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2412MHz by 802.11b

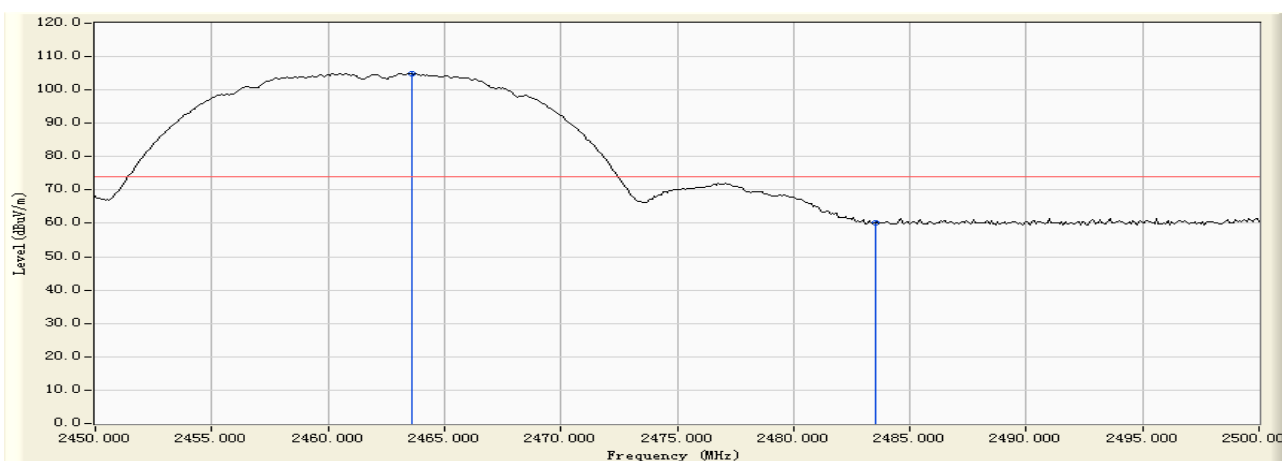


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.651	47.373	-6.597	53.970	AVERAGE
2	*	2414.683	32.737	65.620	98.357	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2462MHz by 802.11b

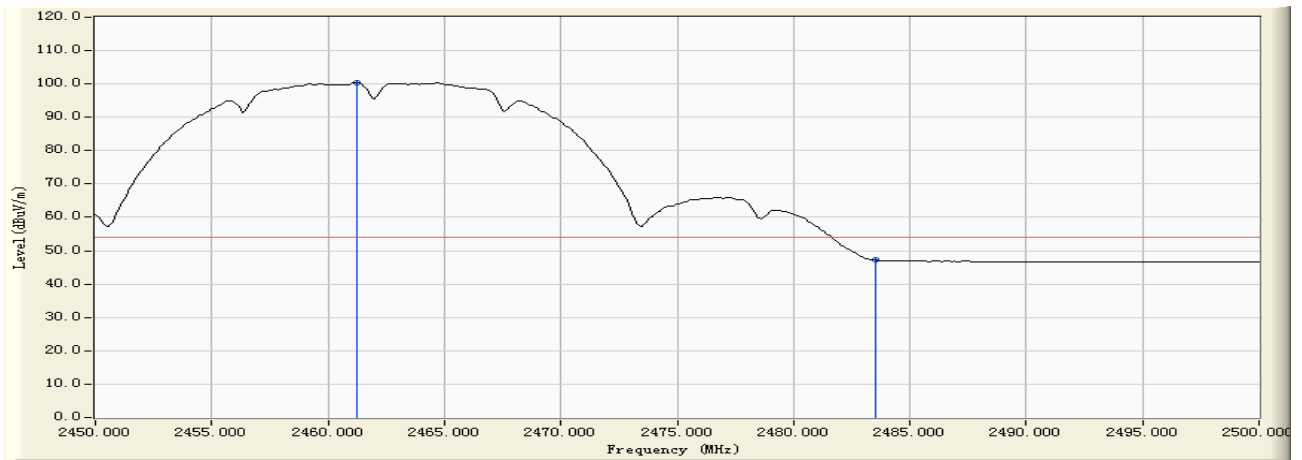


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.583	32.790	72.134	104.924	N/A	N/A	PEAK
2		2483.500	32.787	27.367	60.154	-13.816	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2462MHz by 802.11b

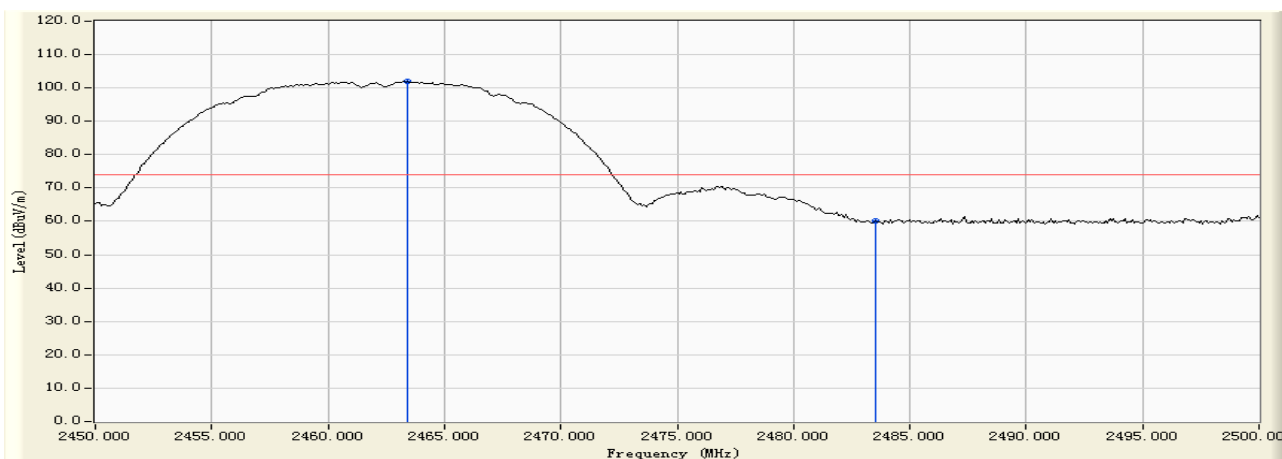


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.250	32.790	67.477	100.267	N/A	N/A	AVERAGE
2		2483.500	32.787	14.369	47.156	-6.814	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2462MHz by 802.11b

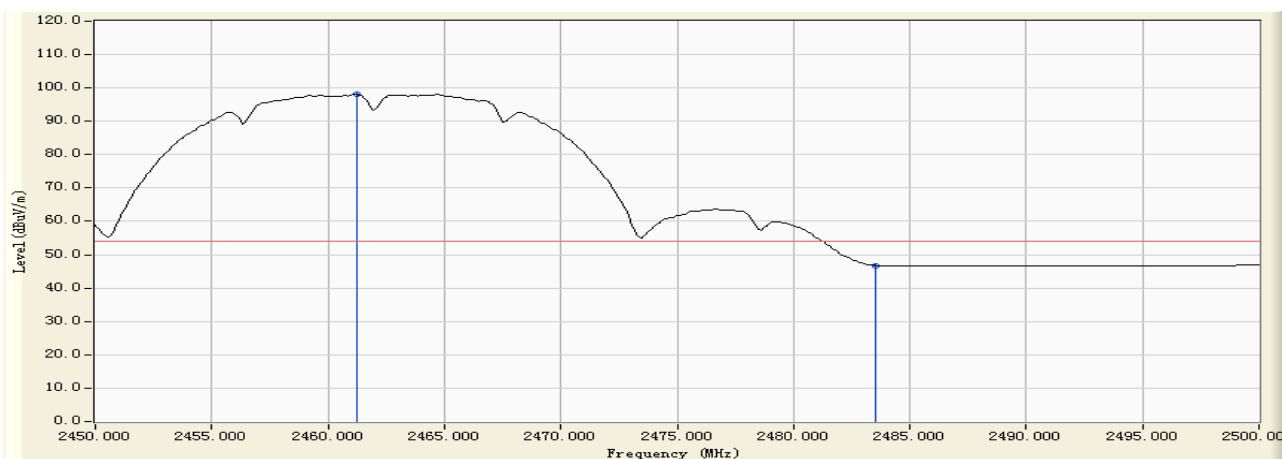


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.417	32.790	69.167	101.957	N/A	N/A	PEAK
2		2483.500	32.787	27.250	60.037	-13.933	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit at channel 2462MHz by 802.11b

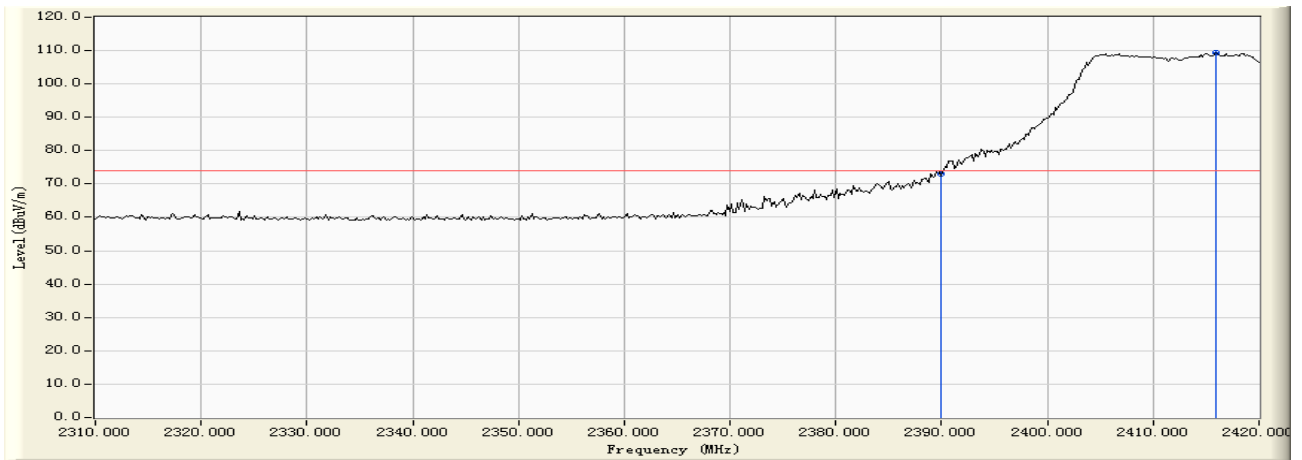


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.250	32.790	65.260	98.050	N/A	N/A	AVERAGE
2		2483.500	32.787	13.984	46.771	-7.199	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2412MHz by 802.11g

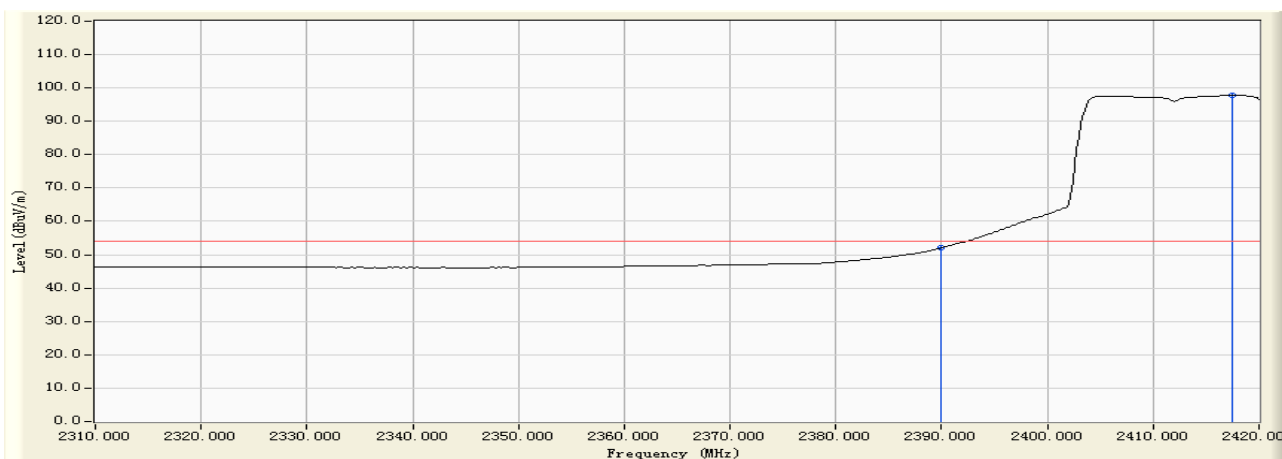


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	40.179	72.901	-1.069	73.970	PEAK
2	*	2415.967	32.739	76.537	109.276	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2412MHz by 802.11g

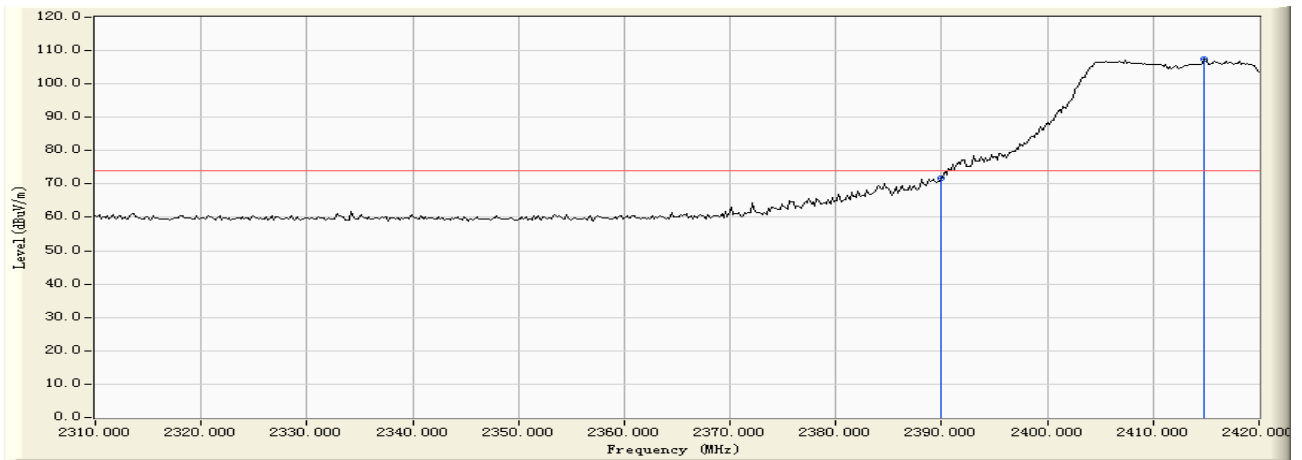


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	19.413	52.135	-1.835	53.970	AVERAGE
2	*	2417.433	32.741	65.016	97.757	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2412MHz by 802.11g

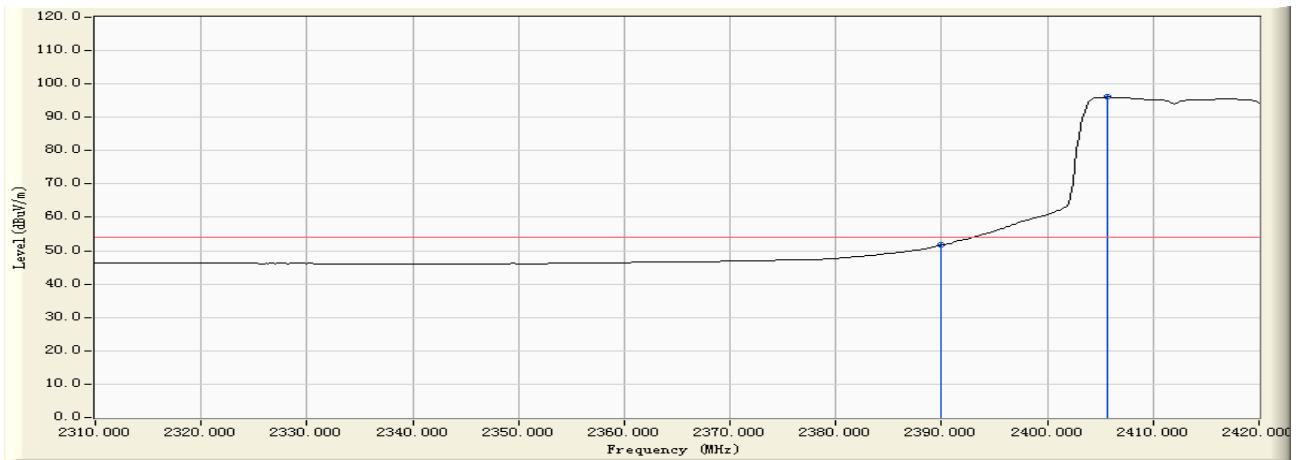


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	38.895	71.617	-2.353	73.970	PEAK
2	*	2414.867	32.737	74.608	107.345	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2412MHz by 802.11g

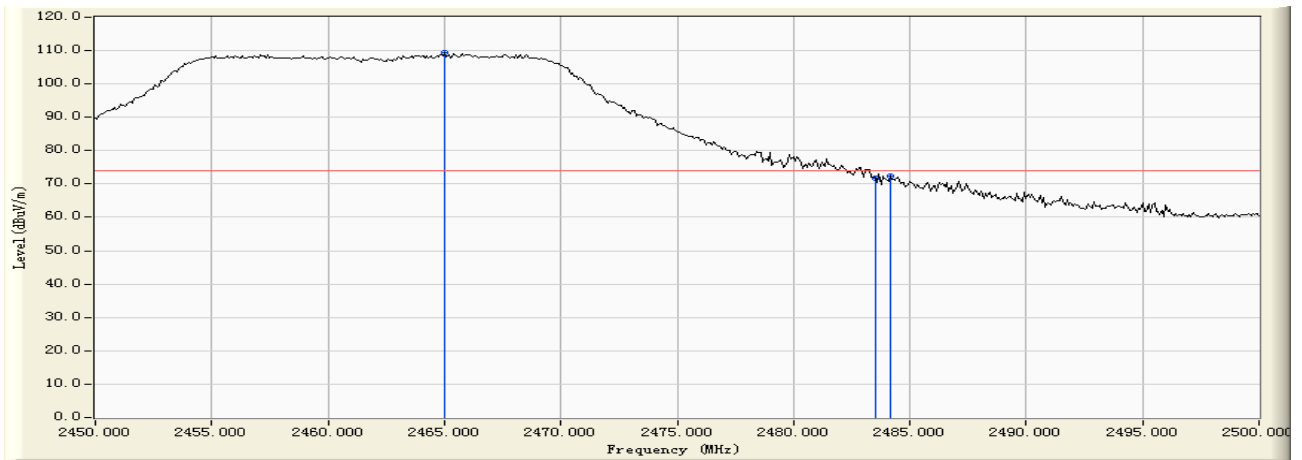


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	19.000	51.722	-2.248	53.970	AVERAGE
2	*	2405.700	32.727	63.368	96.095	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:24
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2462MHz by 802.11g

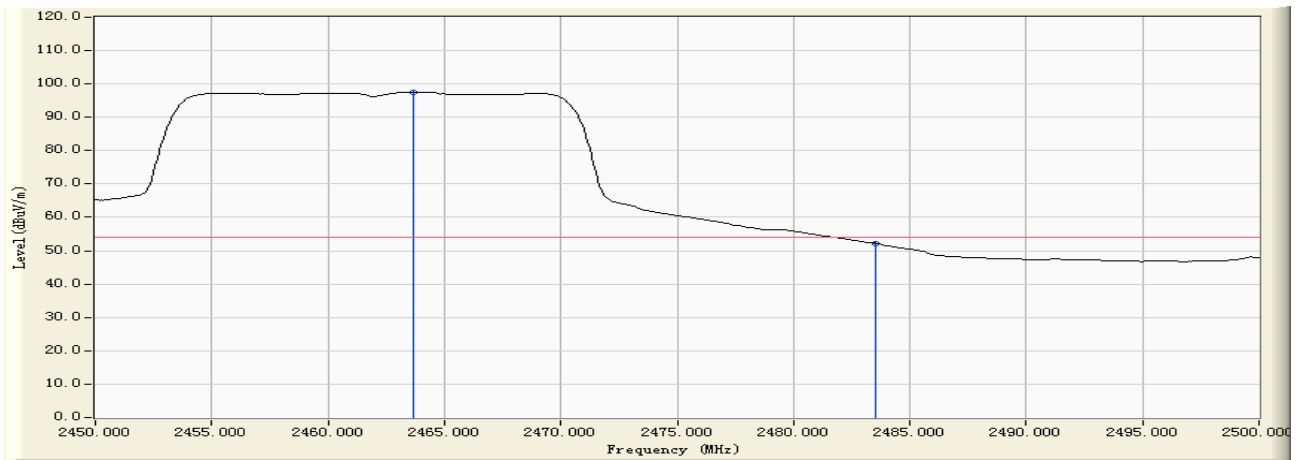


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.000	32.790	76.723	109.513	N/A	N/A	PEAK
2		2483.500	32.787	39.091	71.878	-2.092	73.970	PEAK
3		2484.167	32.787	39.564	72.351	-1.619	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2462MHz by 802.11g

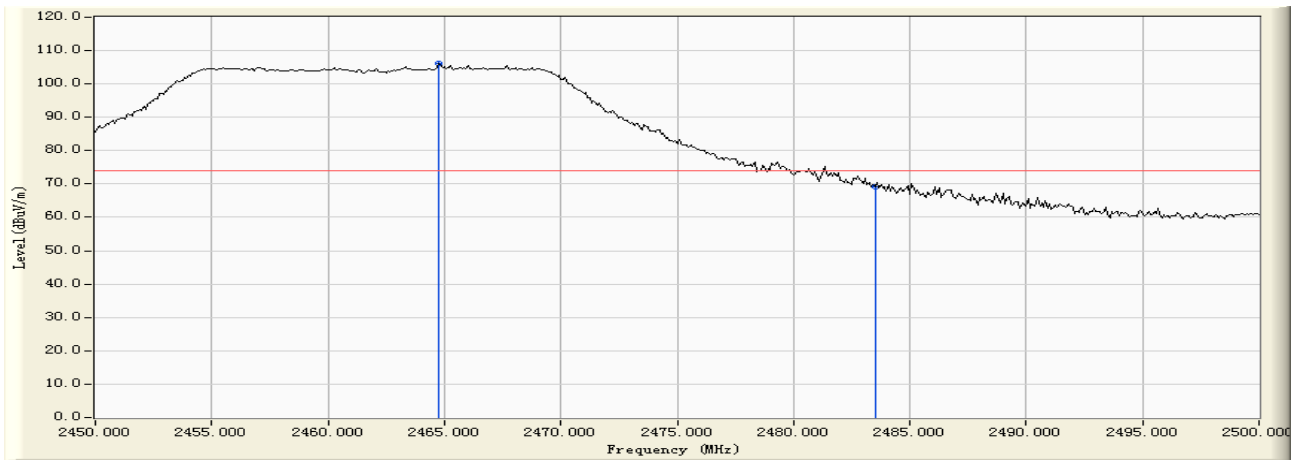


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.667	32.790	64.665	97.455	N/A	N/A	AVERAGE
2		2483.500	32.787	19.359	52.146	-1.824	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2462MHz by 802.11g

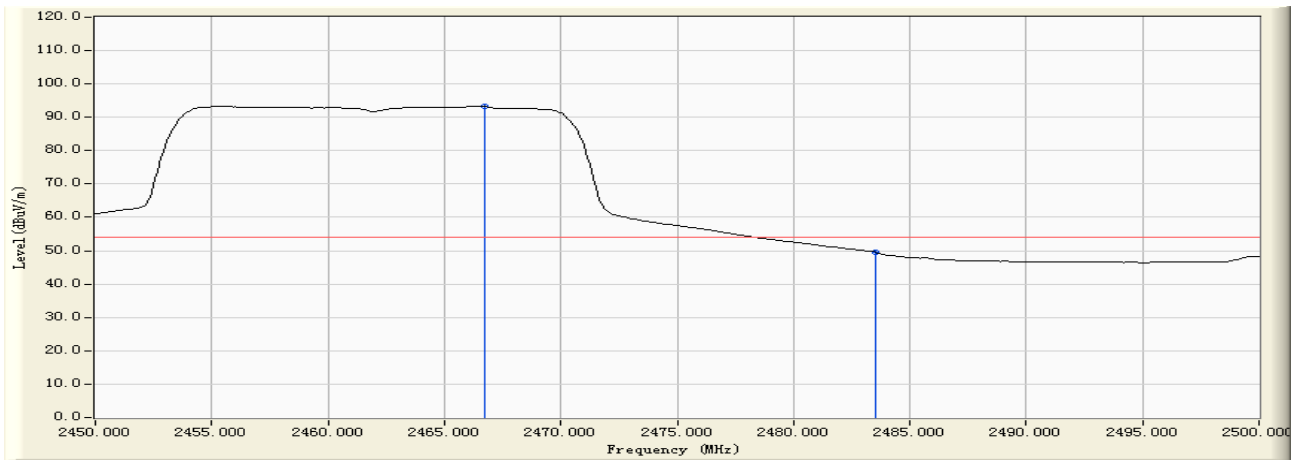


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.750	32.790	73.415	106.205	N/A	N/A	PEAK
2		2483.500	32.787	36.297	69.084	-4.886	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit at channel 2462MHz by 802.11g

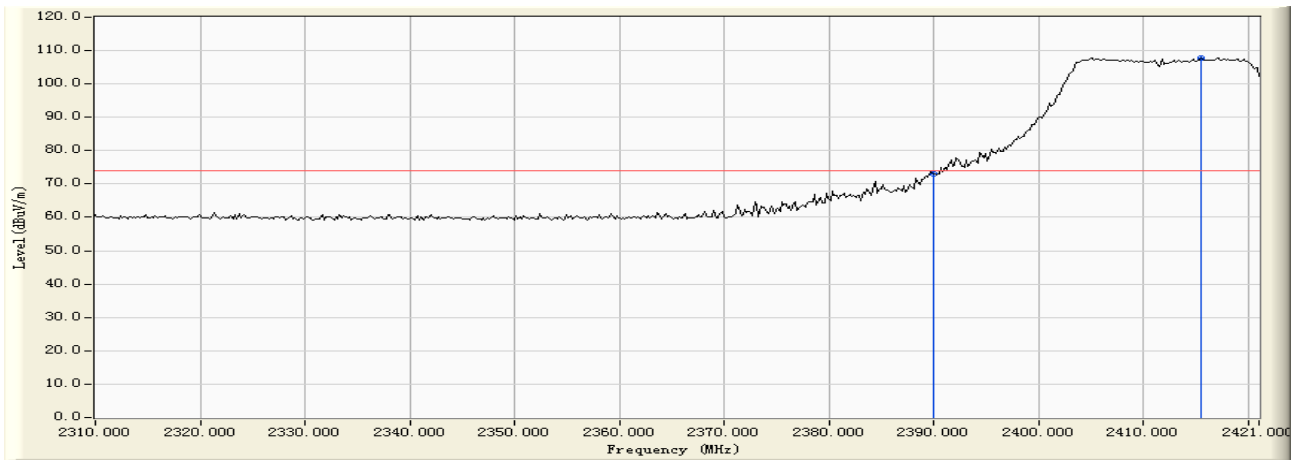


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.750	32.790	60.577	93.367	N/A	N/A	AVERAGE
2		2483.500	32.787	16.726	49.513	-4.457	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)

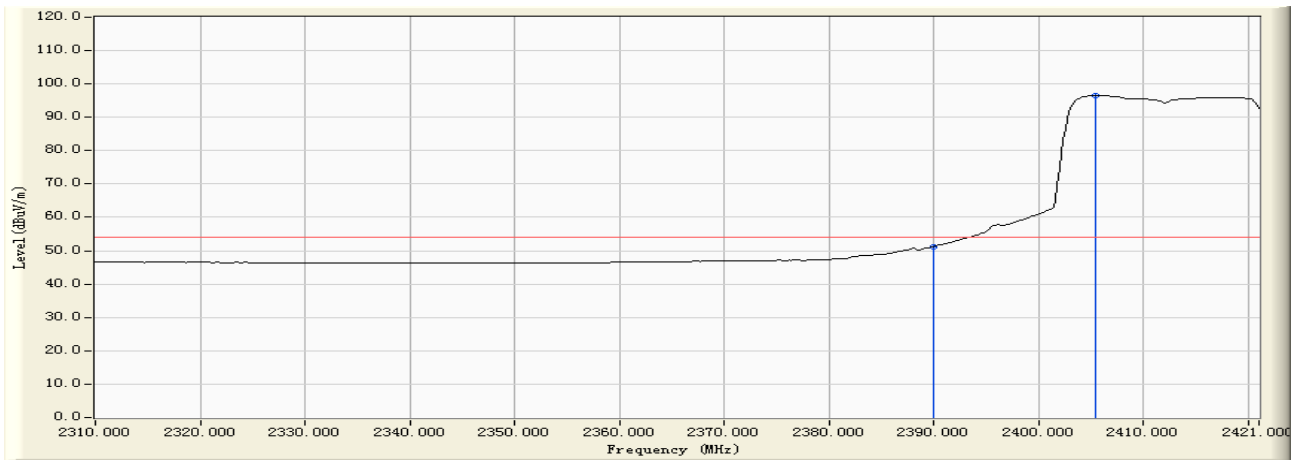


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	40.187	72.909	-1.061	73.970	PEAK
2	*	2415.450	32.737	75.072	107.810	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)

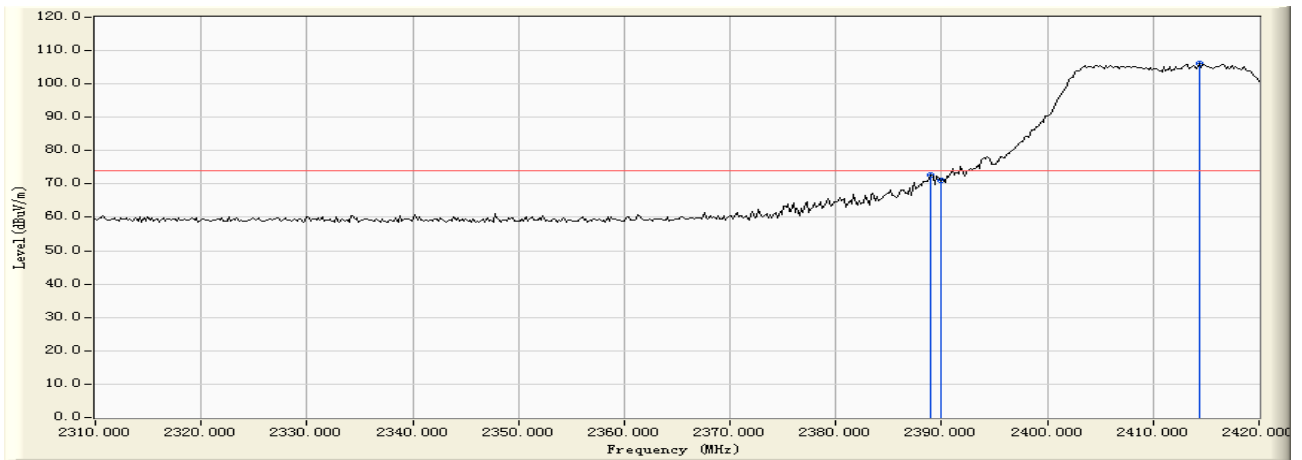


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	18.548	51.270	-2.700	53.970	AVERAGE
2	*	2405.460	32.726	63.747	96.474	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 17:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Not: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)

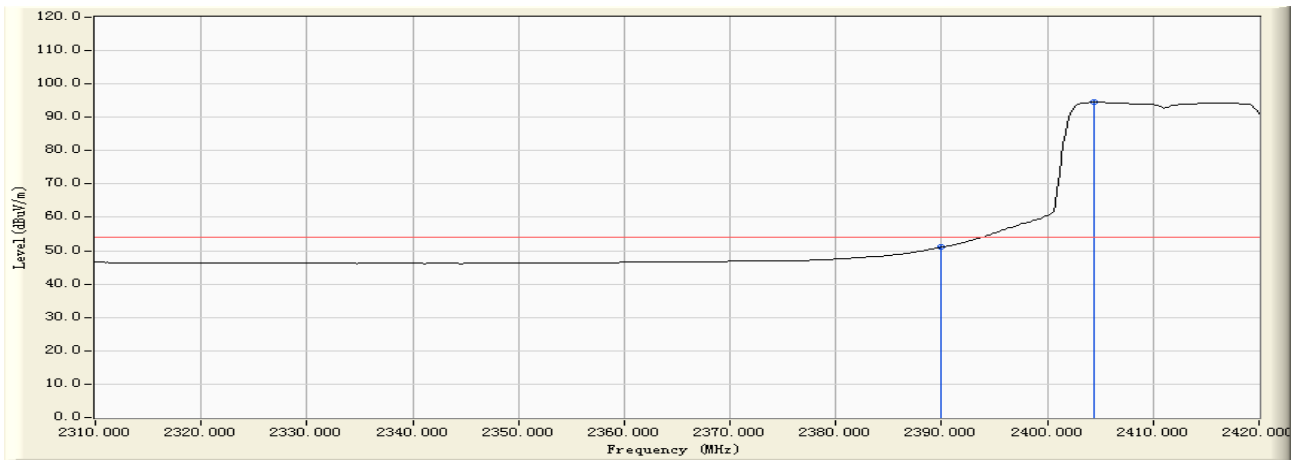


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.017	32.723	39.954	72.677	-1.293	73.970	PEAK
2		2390.000	32.722	38.296	71.018	-2.952	73.970	PEAK
3	*	2414.317	32.736	73.437	106.173	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:00
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)

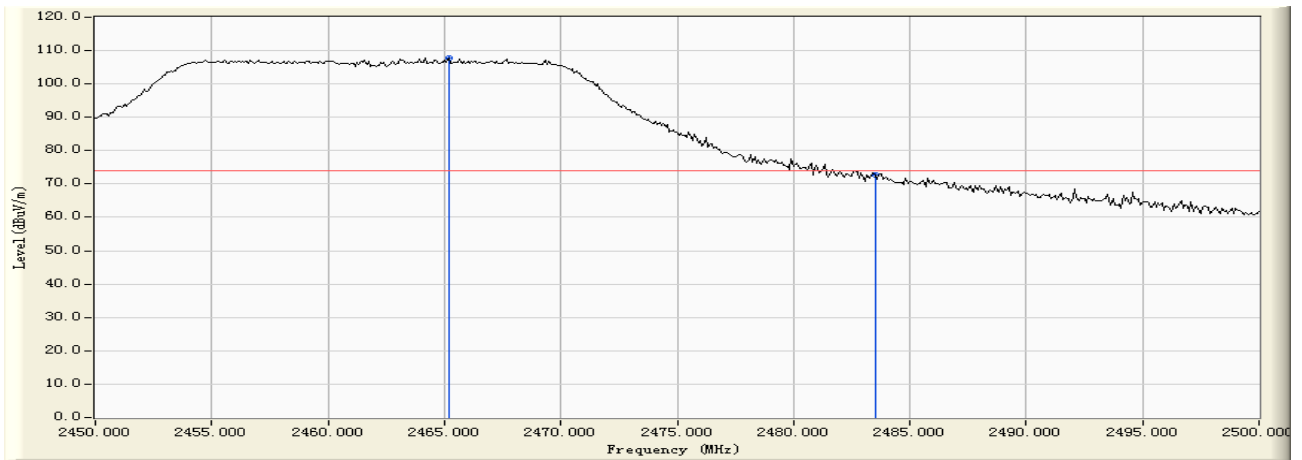


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	18.324	51.046	-2.924	53.970	AVERAGE
2	*	2404.417	32.726	61.785	94.511	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)

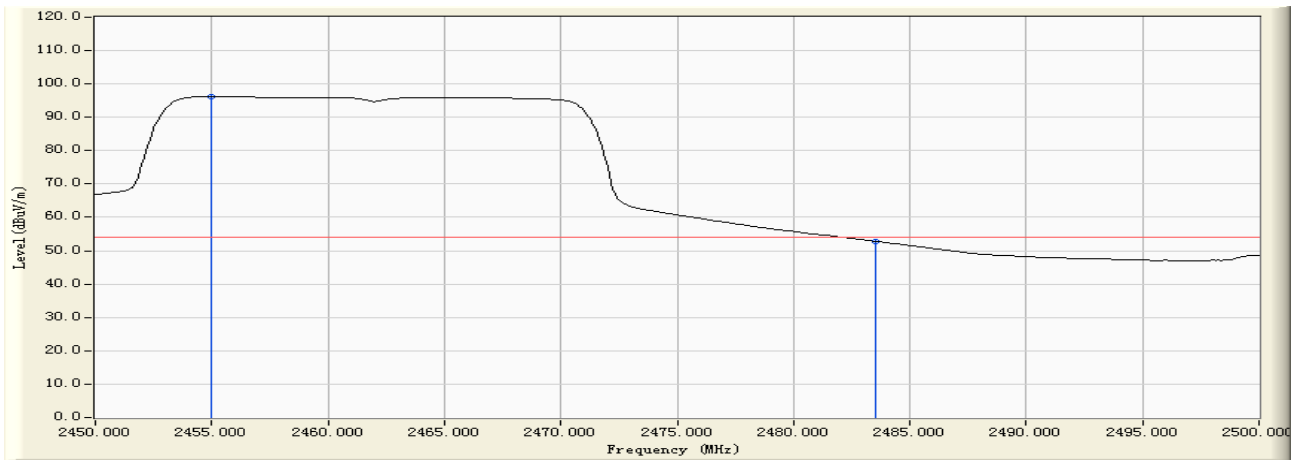


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.167	32.790	75.008	107.798	N/A	N/A	PEAK
2		2483.500	32.787	39.909	72.696	-1.274	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)

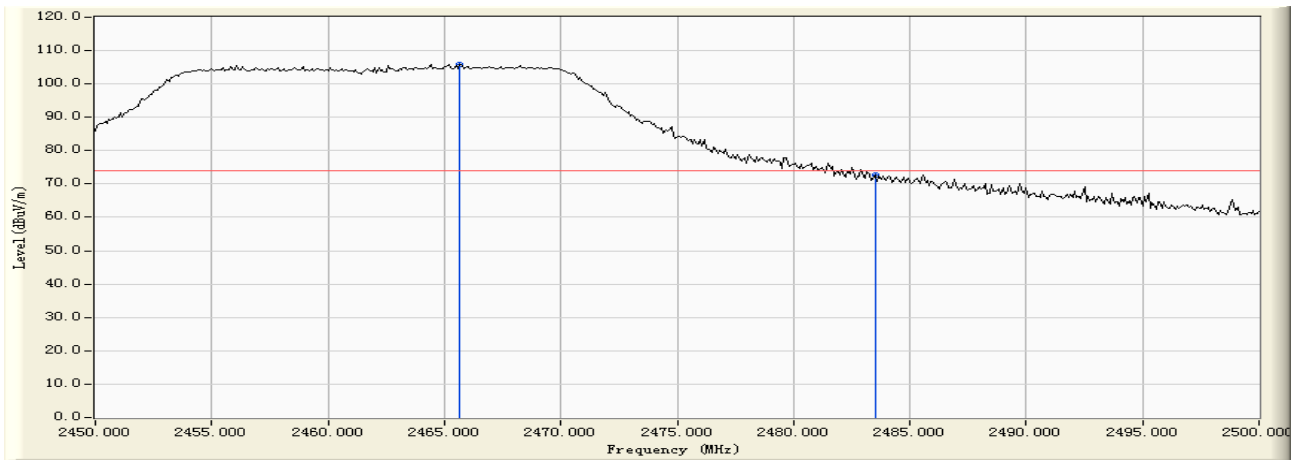


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.000	32.786	63.422	96.208	N/A	N/A	AVERAGE
2		2483.500	32.787	20.049	52.836	-1.134	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)

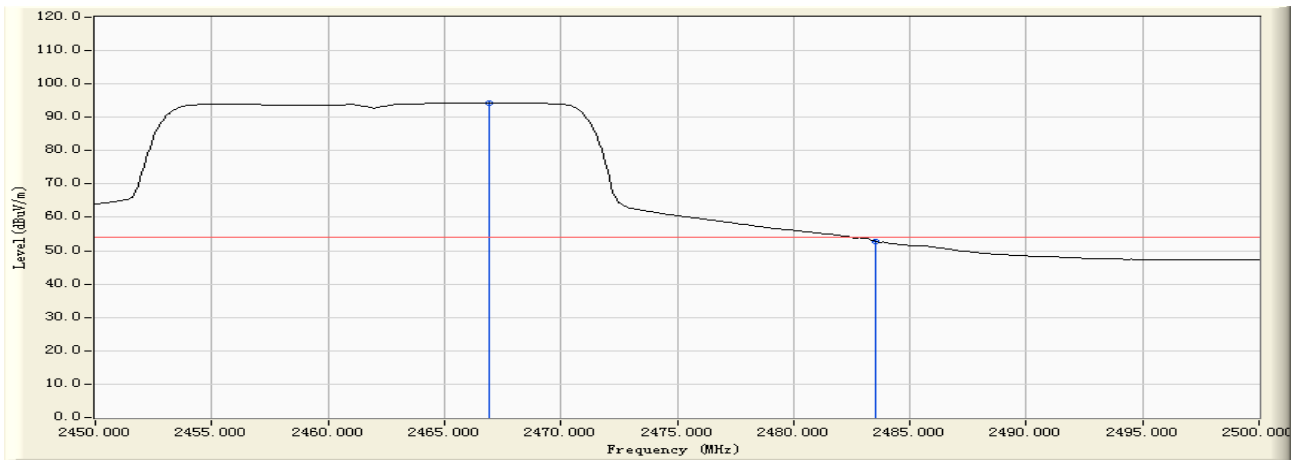


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.667	32.790	73.017	105.807	N/A	N/A	PEAK
2		2483.500	32.787	40.053	72.840	-1.130	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:45
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)

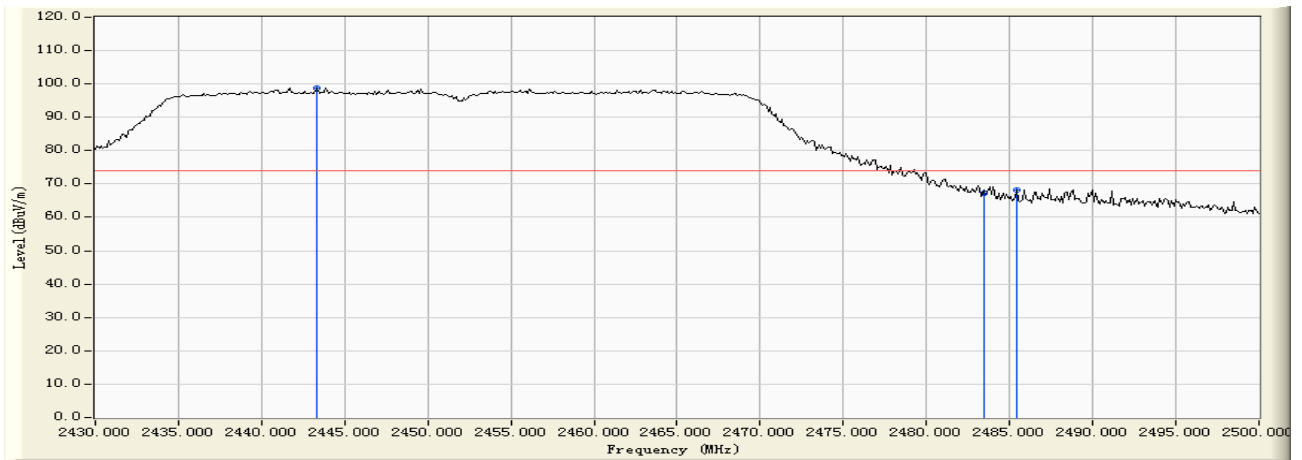


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.917	32.790	61.600	94.390	N/A	N/A	AVERAGE
2		2483.500	32.787	19.970	52.757	-1.213	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)

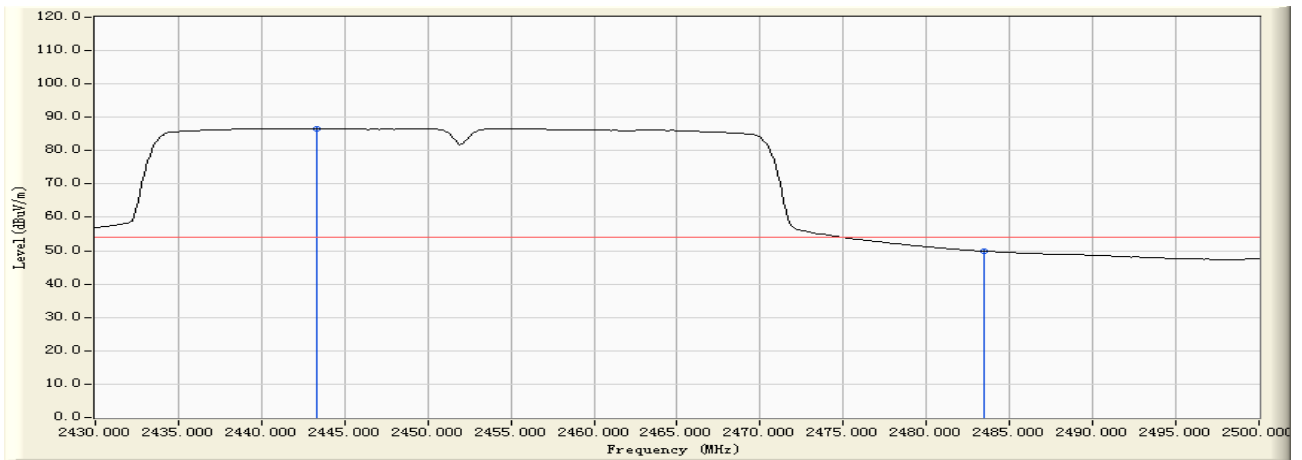


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2443.300	32.778	65.952	98.730	N/A	N/A	PEAK
2		2483.500	32.787	34.599	67.386	-6.584	73.970	PEAK
3		2485.417	32.786	35.488	68.274	-5.696	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)

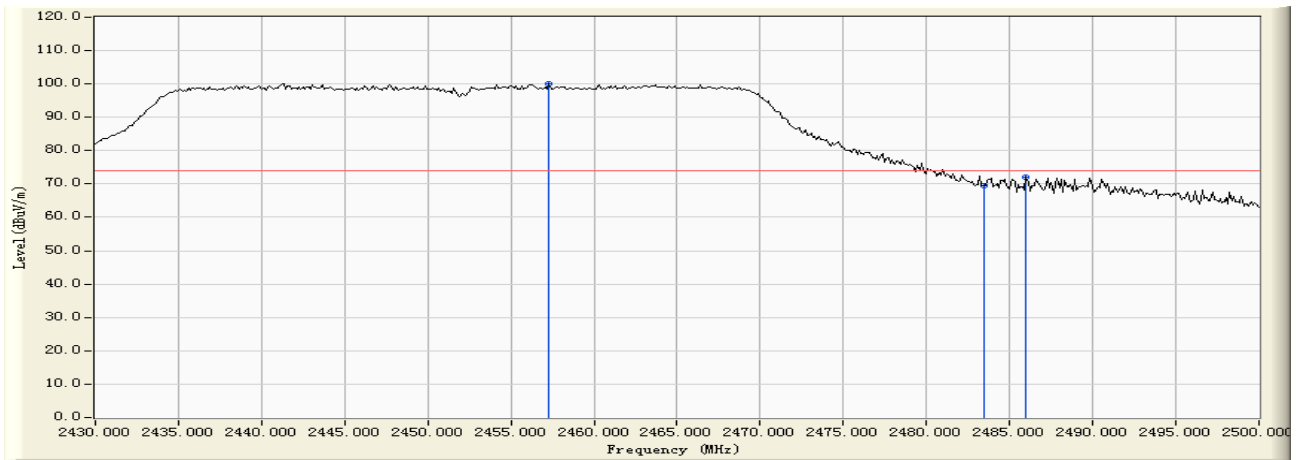


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2443.300	32.778	53.849	86.627	N/A	N/A	AVERAGE
2		2483.500	32.787	17.094	49.881	-4.089	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)

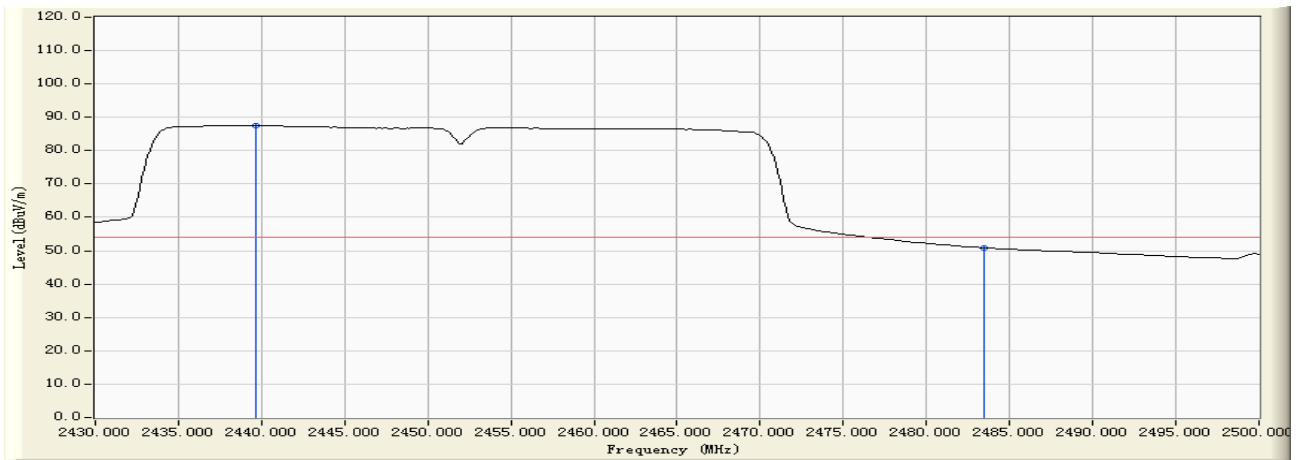


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.300	32.787	67.250	100.037	N/A	N/A	PEAK
2		2483.500	32.787	36.680	69.467	-4.503	73.970	PEAK
3		2486.000	32.786	39.219	72.005	-1.965	73.970	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)

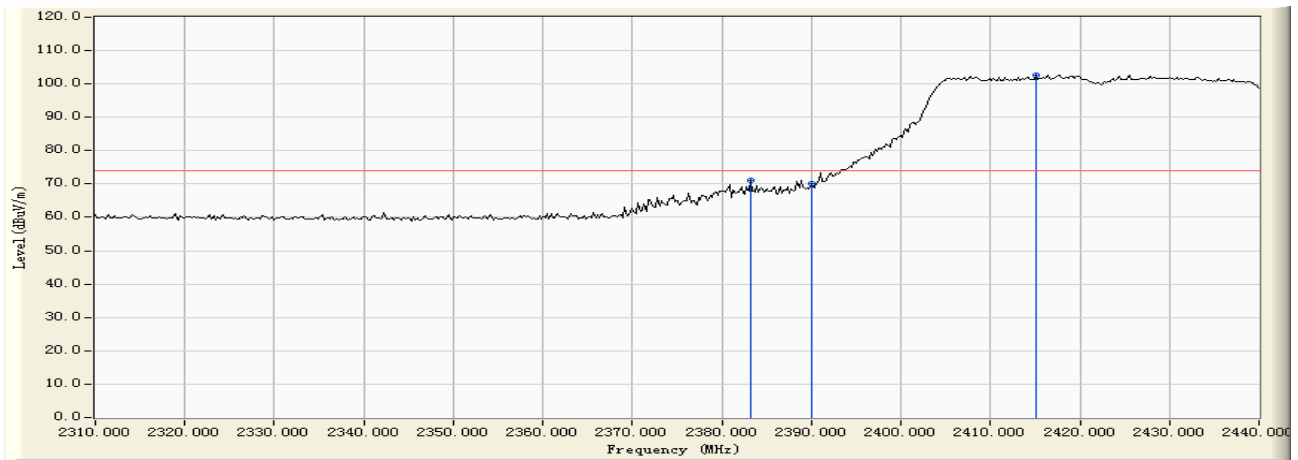


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2439.683	32.774	54.756	87.530	N/A	N/A	AVERAGE
2		2483.500	32.787	18.107	50.894	-3.076	53.970	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)

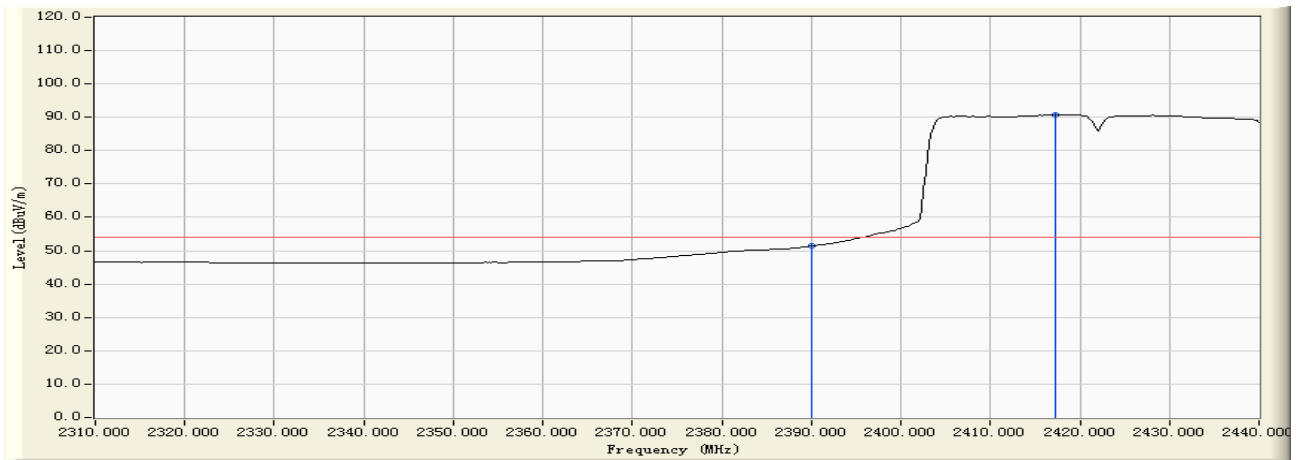


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2383.233	32.726	38.337	71.063	-2.907	73.970	PEAK
2		2390.000	32.722	37.285	70.007	-3.963	73.970	PEAK
3	*	2415.083	32.738	70.001	102.738	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 18:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)

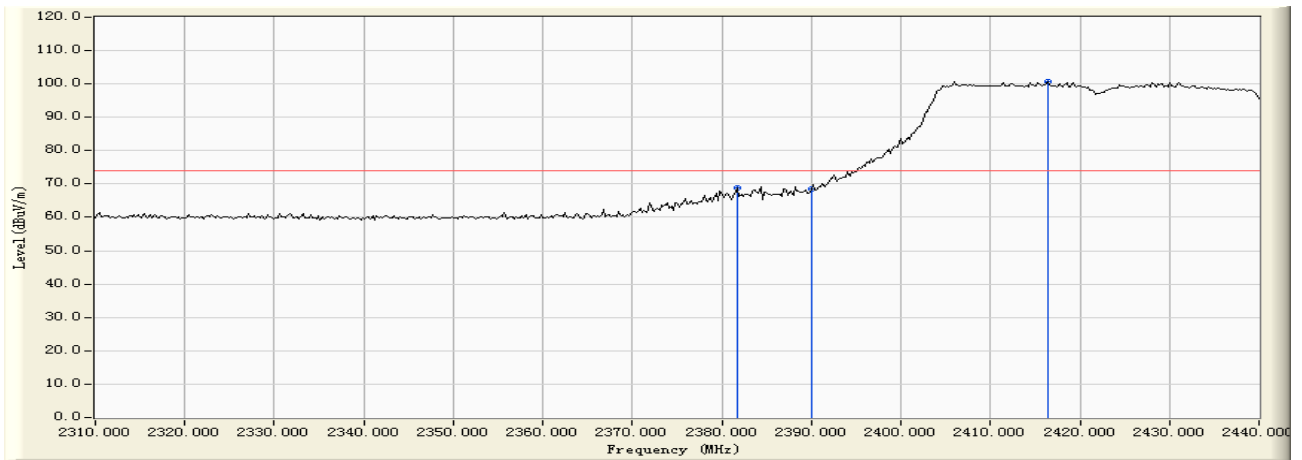


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	18.654	51.376	-2.594	53.970	AVERAGE
2	*	2417.250	32.741	58.032	90.773	N/A	N/A	AVERAGE

Note:

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

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 19:02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)

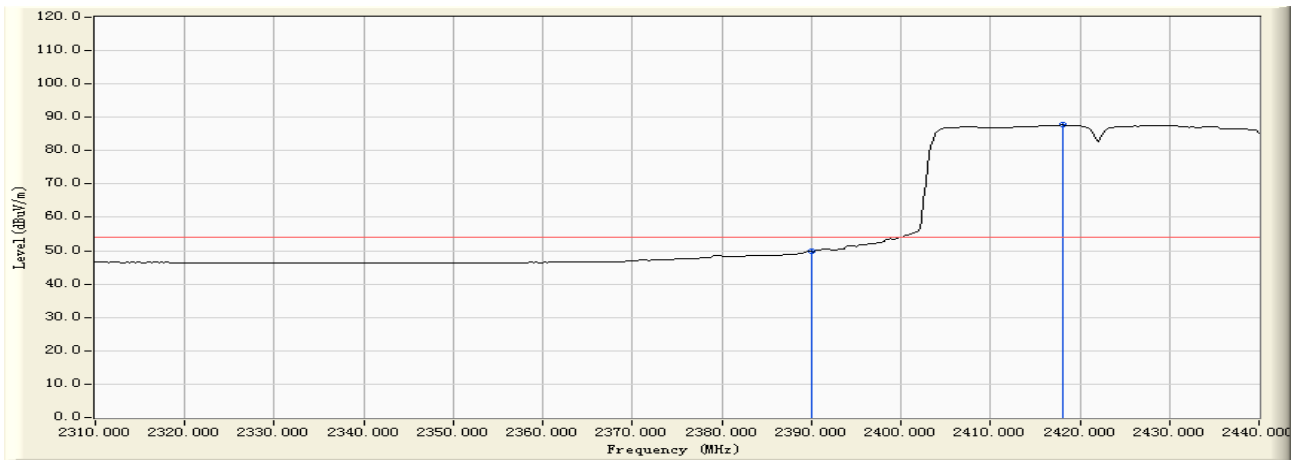


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2381.717	32.728	36.146	68.873	-5.097	73.970	PEAK
2		2390.000	32.722	35.793	68.515	-5.455	73.970	PEAK
3	*	2416.383	32.740	68.009	100.749	N/A	N/A	PEAK

Note:

Peak detector set as follows: RBW = 1MHz, VBW = 3MHz, sweep time = 500ms.

Engineer : Jame	
Site : AC 2 (Semi Anechoic Chamber)	Time : 2009/04/22 - 19:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC (M/N: Eee PC 1005HA)	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	17.146	49.868	-4.102	53.970	AVERAGE
2	*	2418.117	32.743	55.089	87.832	N/A	N/A	AVERAGE

Note:

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

7. Operation Frequency Range of 20dB Bandwidth

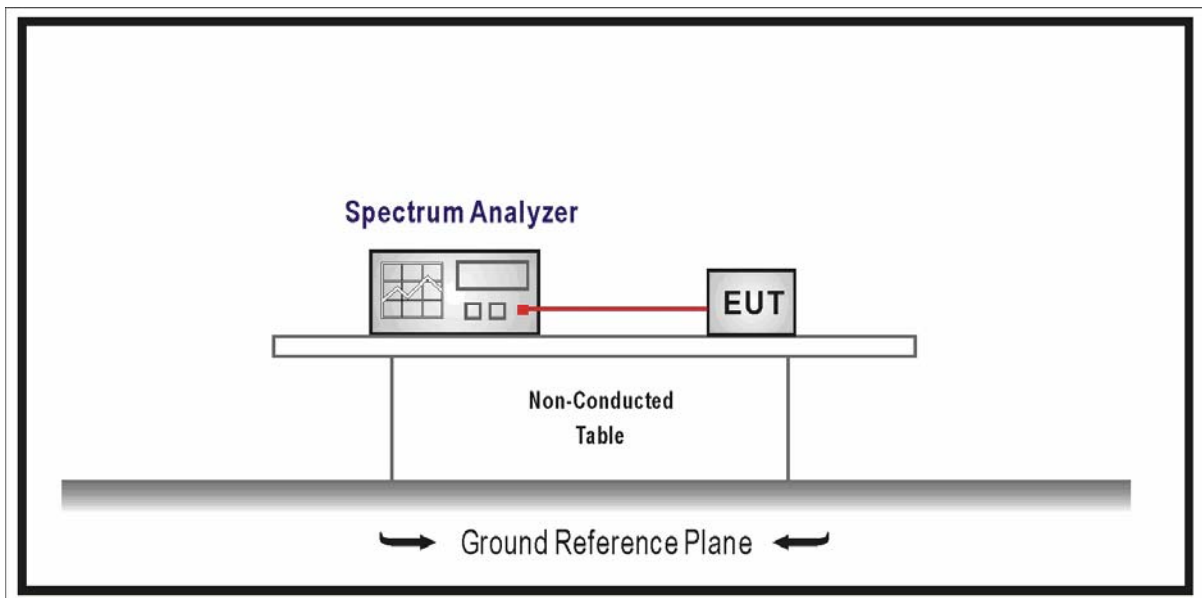
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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.

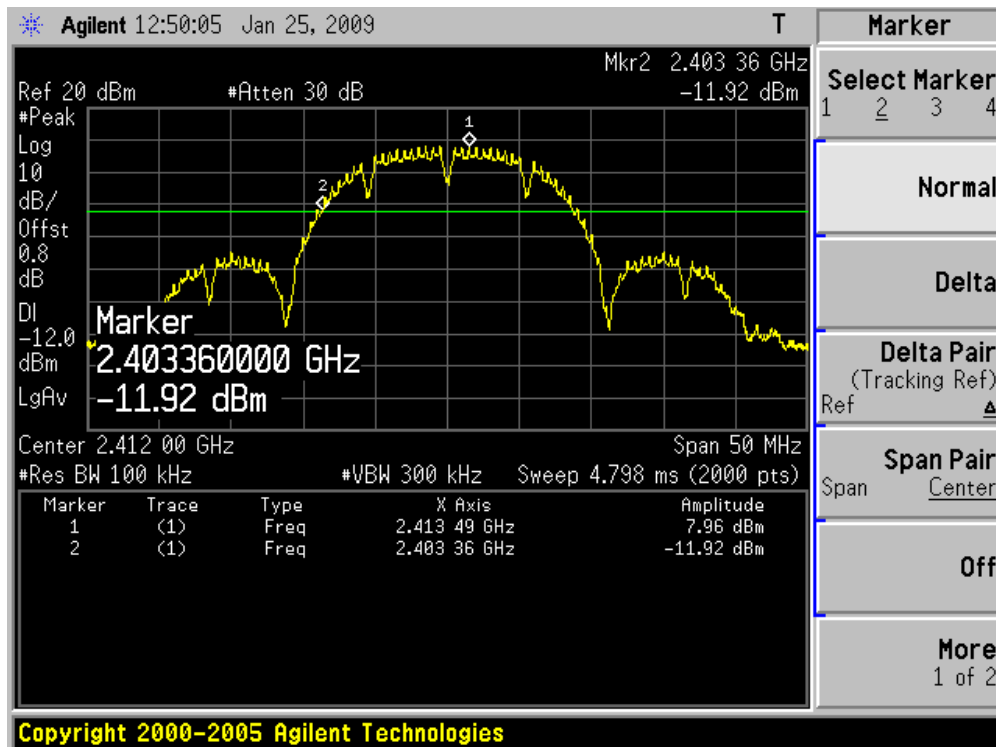
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

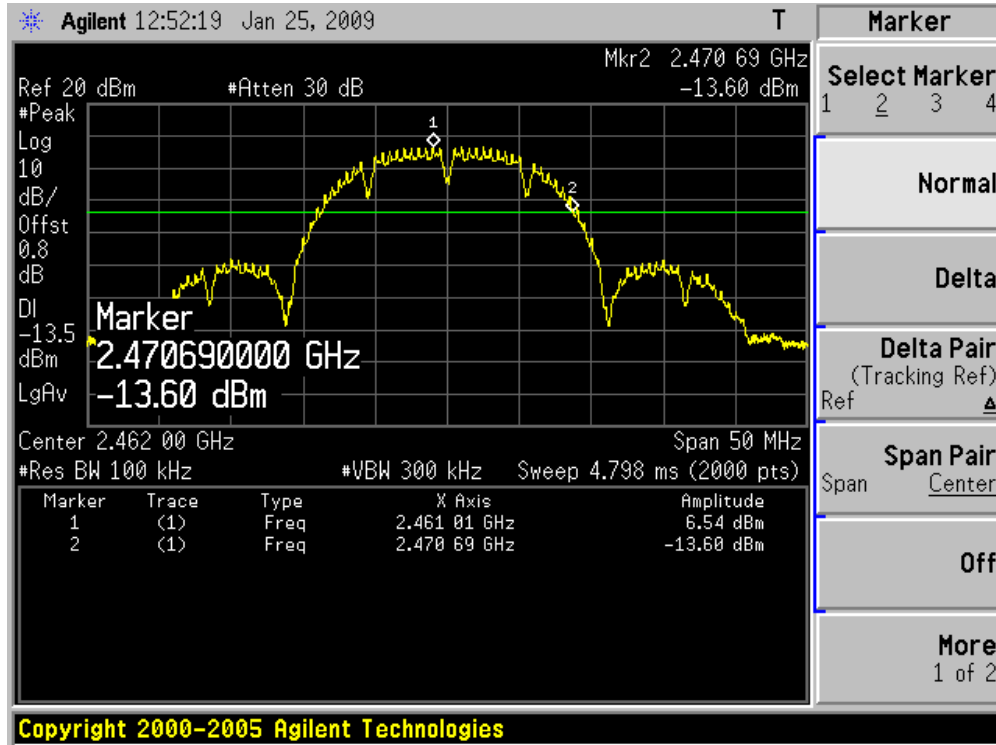
7.6. Test Result

Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

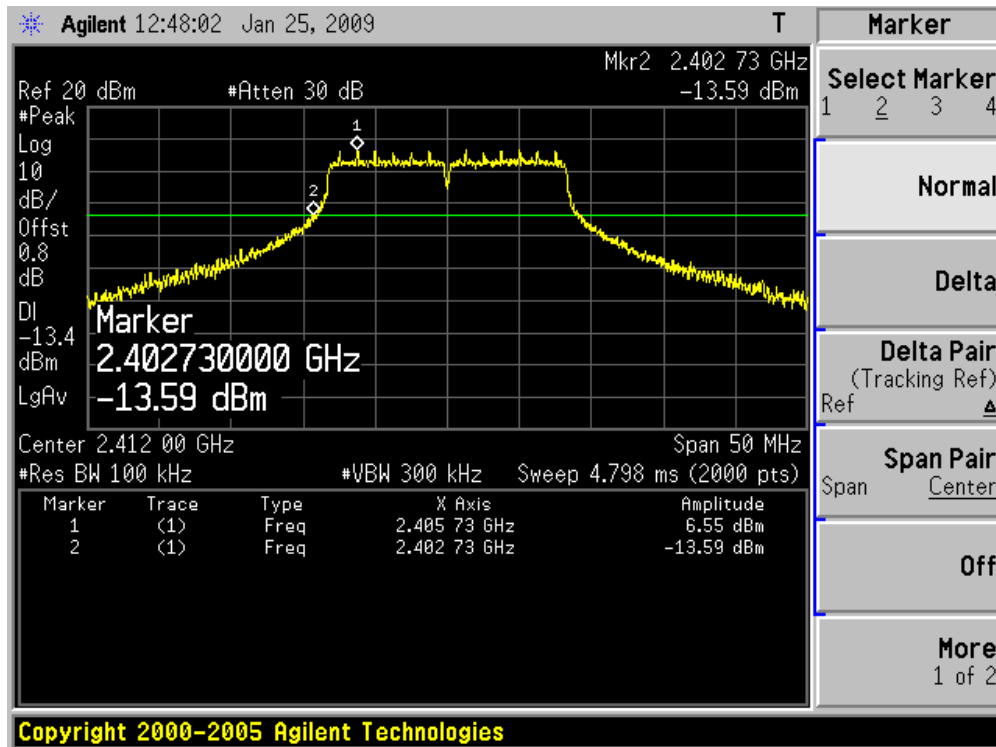


Channel 11 (2462MHz)

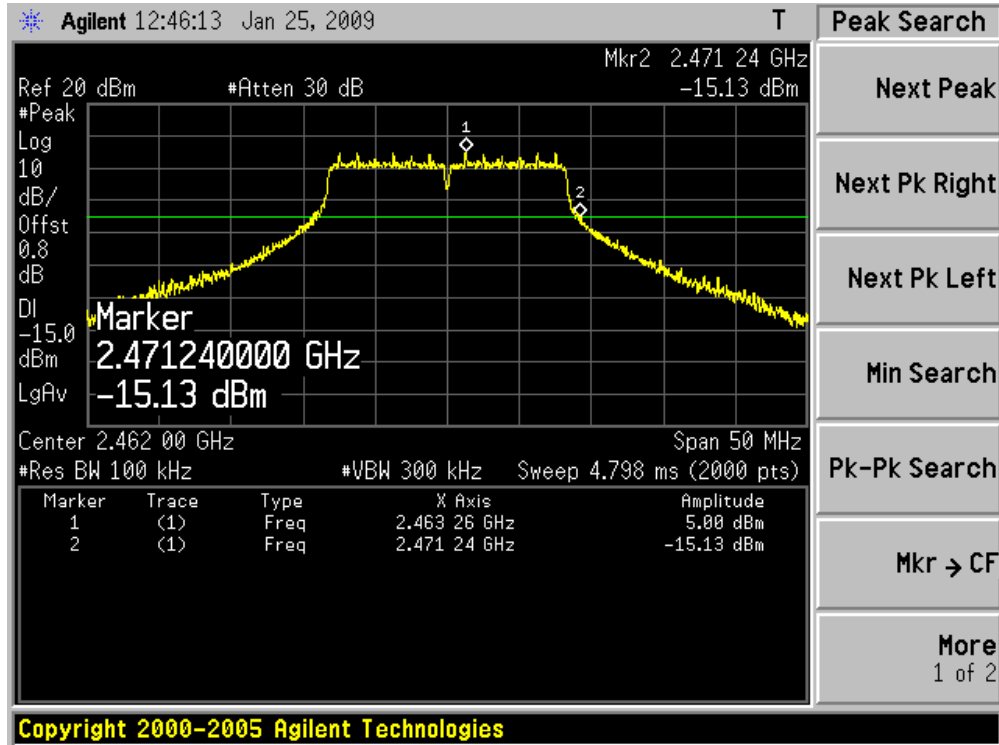


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

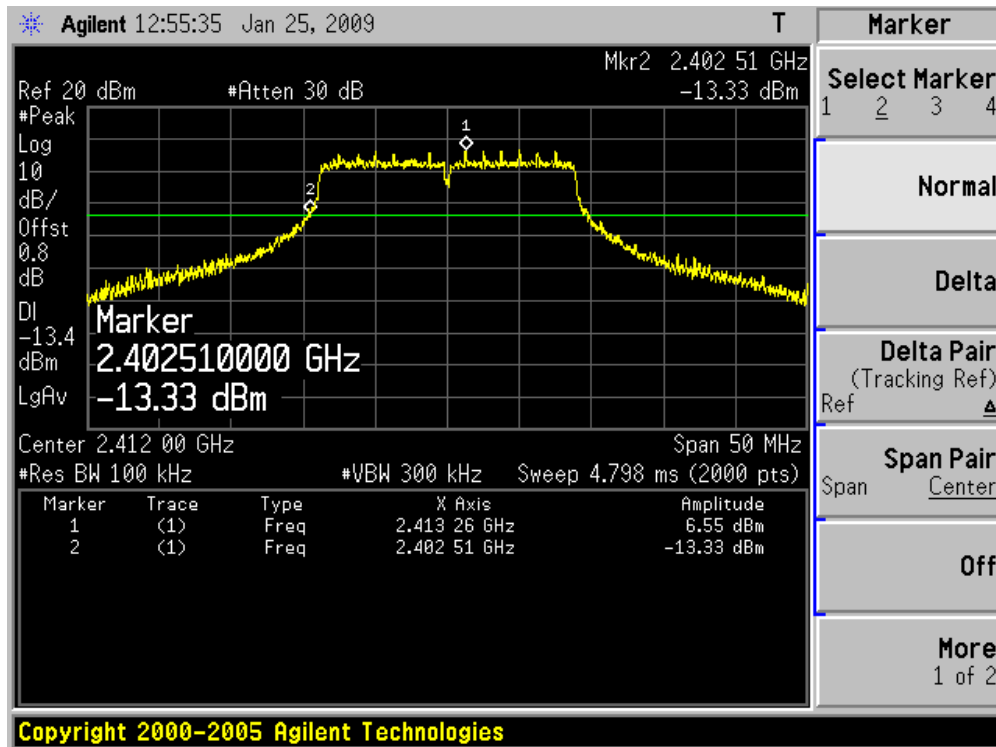


Channel 11 (2462MHz)

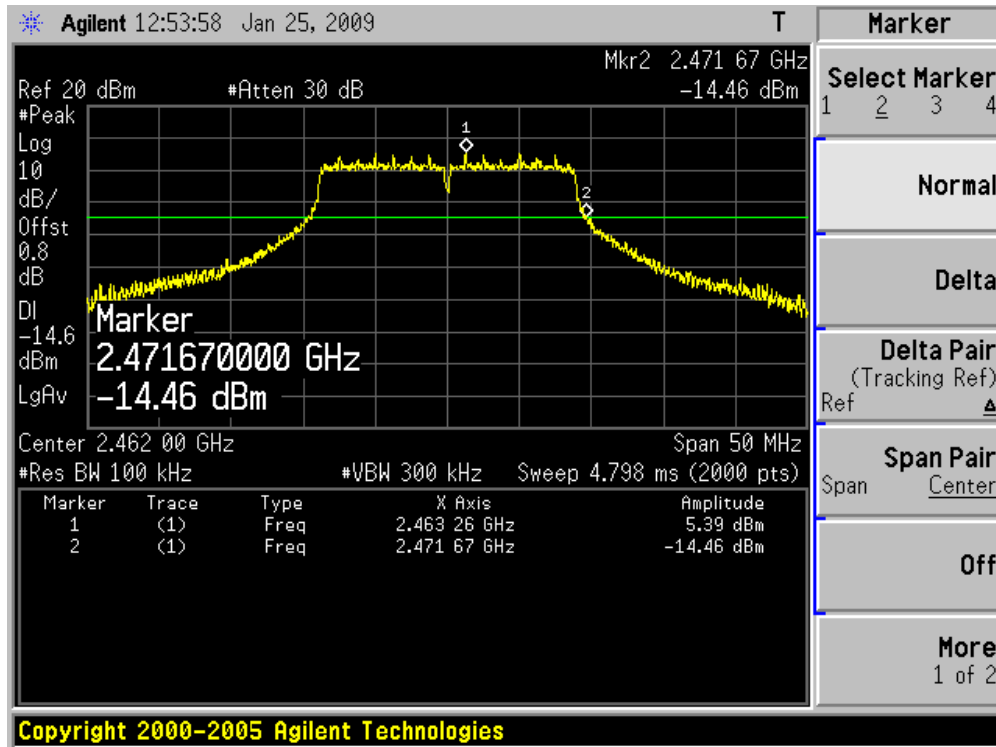


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel 01 (2412MHz)

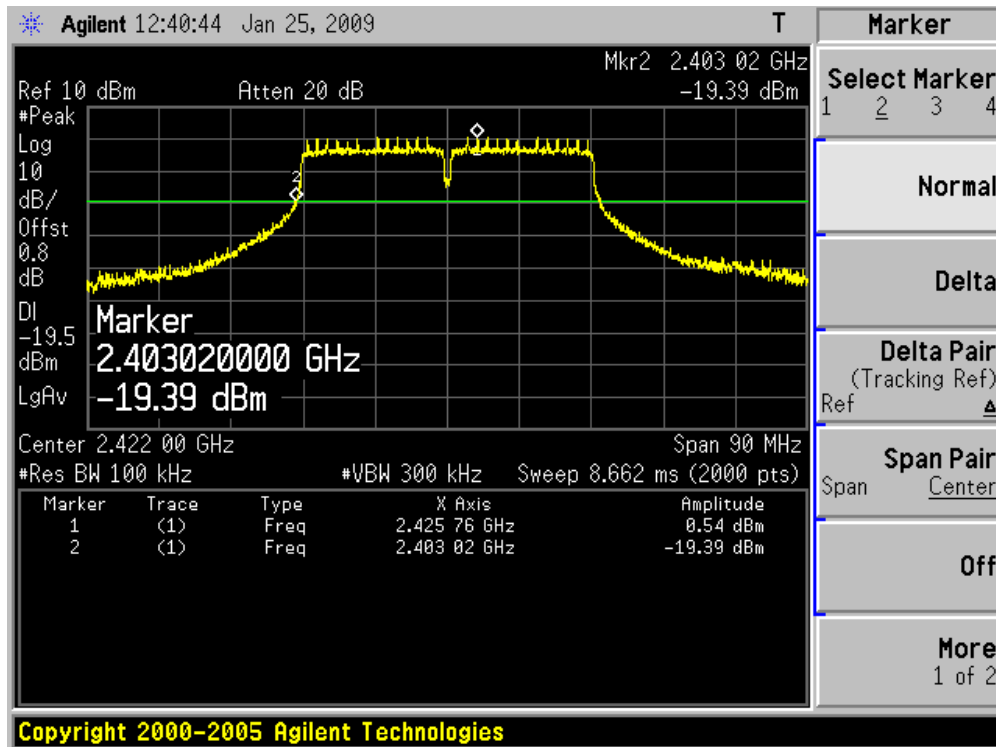


Channel 11 (2462MHz)

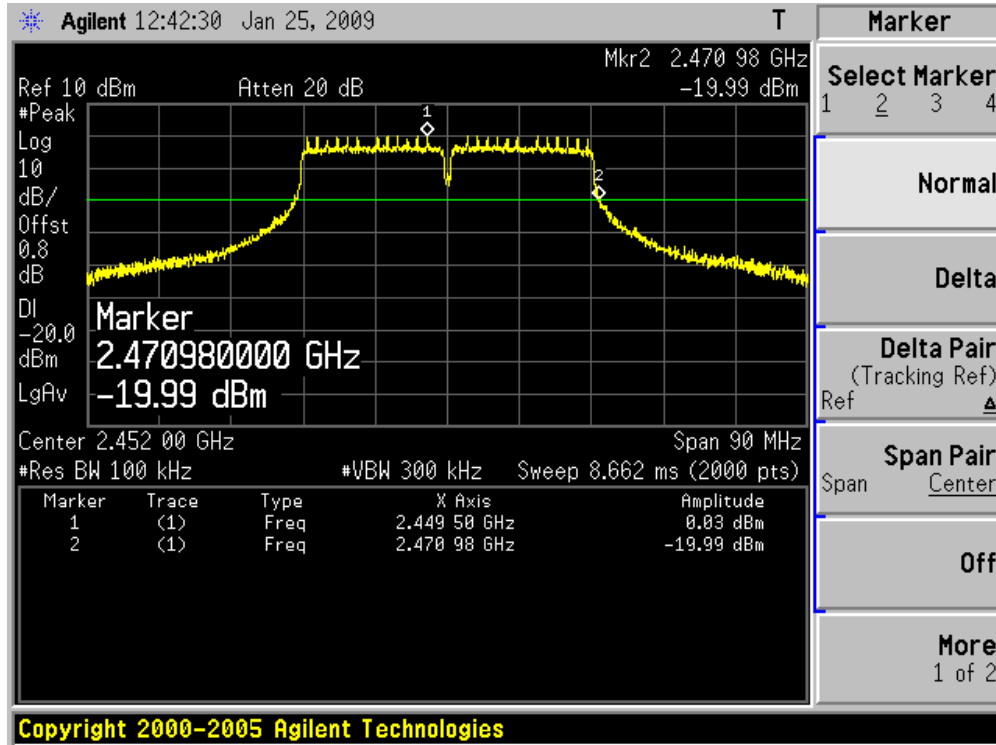


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel 01 (2422MHz)



Channel 11 (2452MHz)



8. Occupied Bandwidth

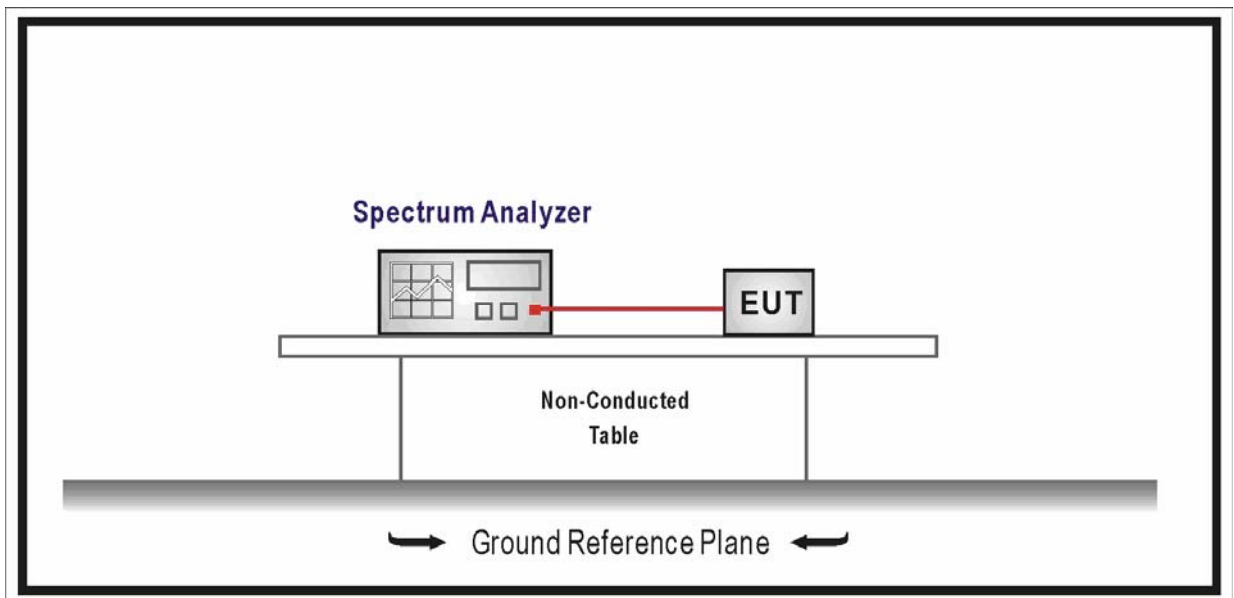
8.1. Test Equipment

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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

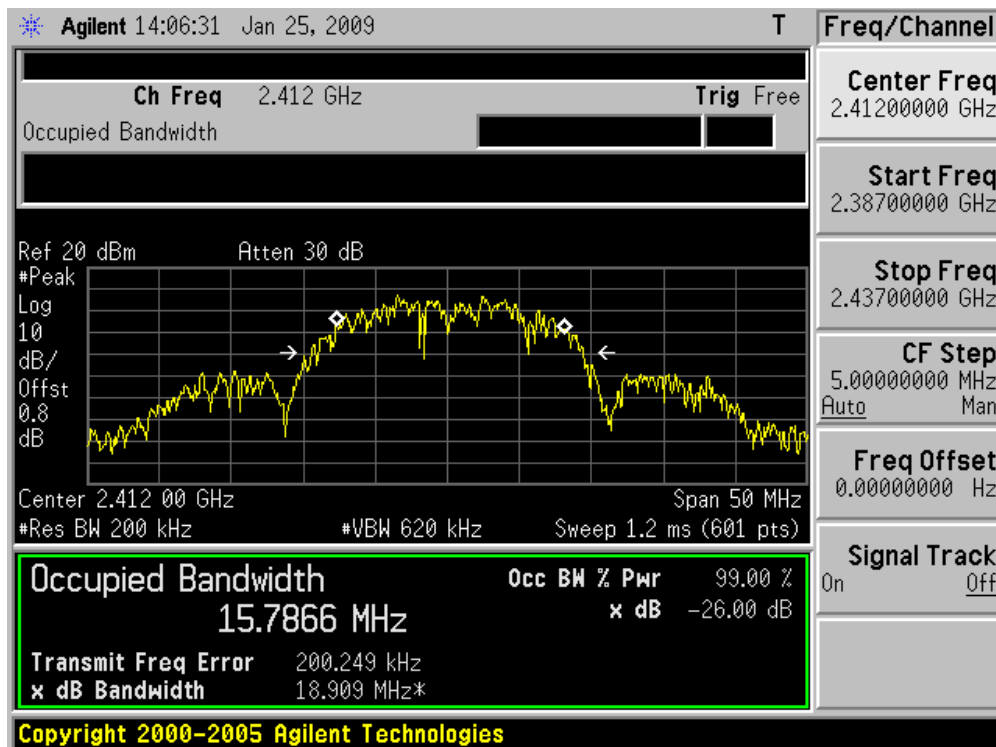
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

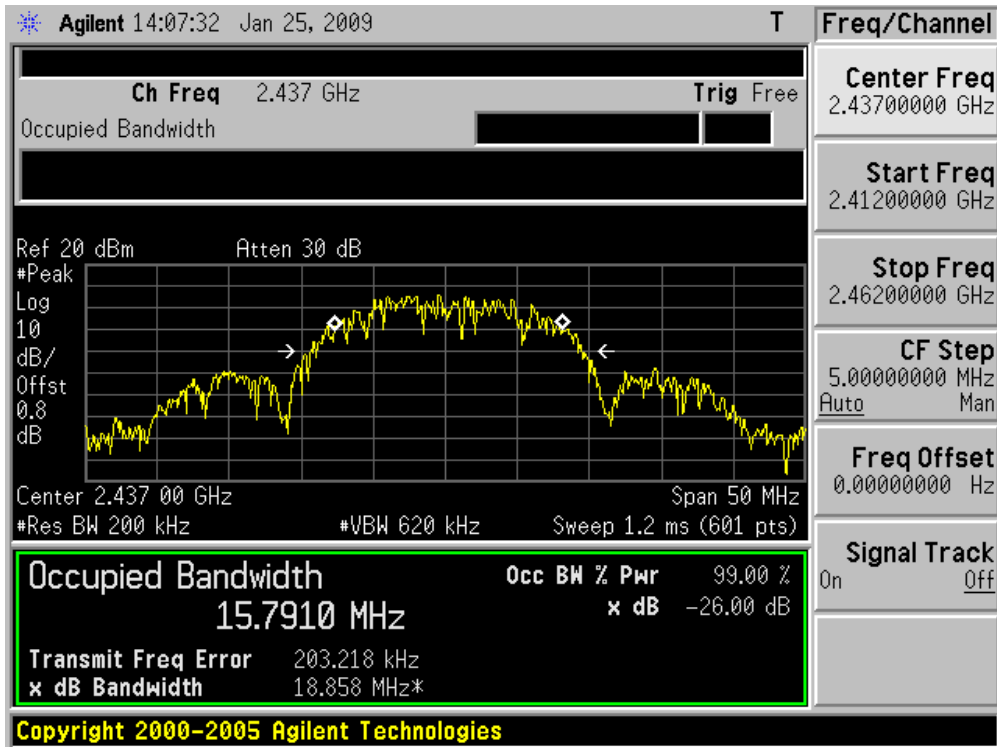
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	157866	N/A	Pass
06	2437	157910	N/A	Pass
11	2462	155309	N/A	Pass

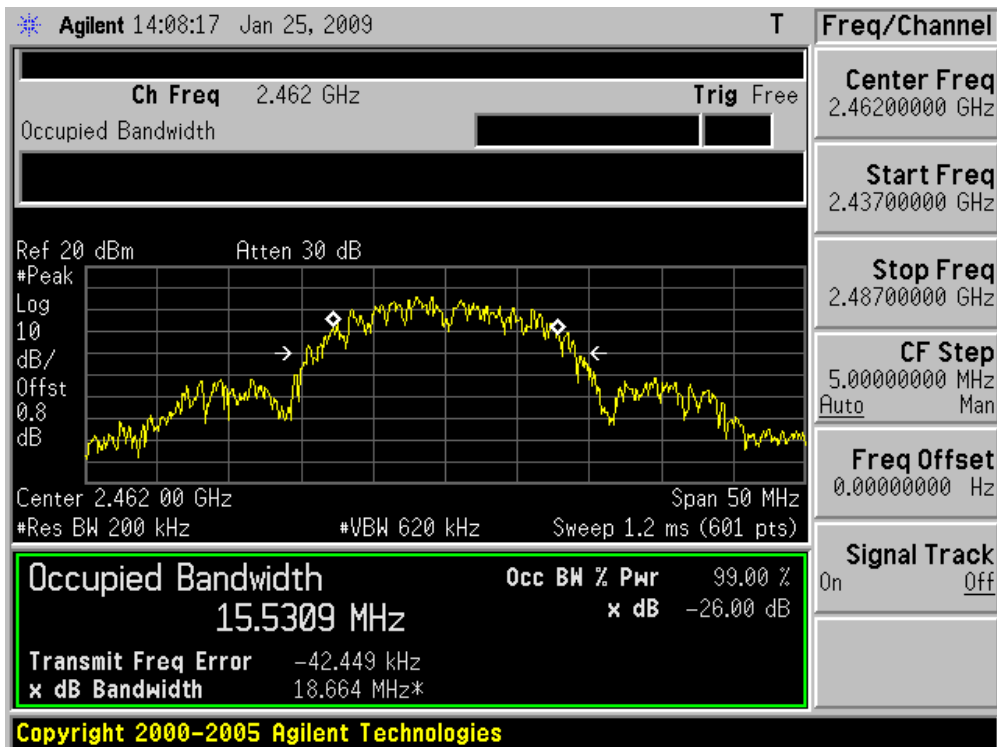
Channel 01 (2412MHz)



Channel 06 (2437MHz)



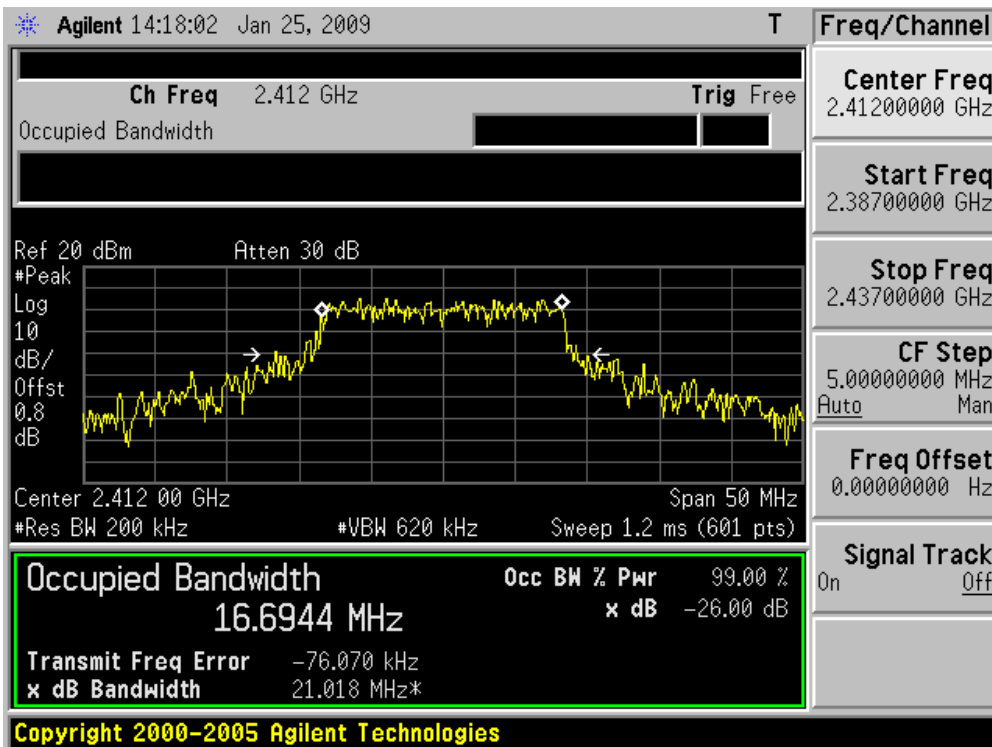
Channel 11 (2462MHz)



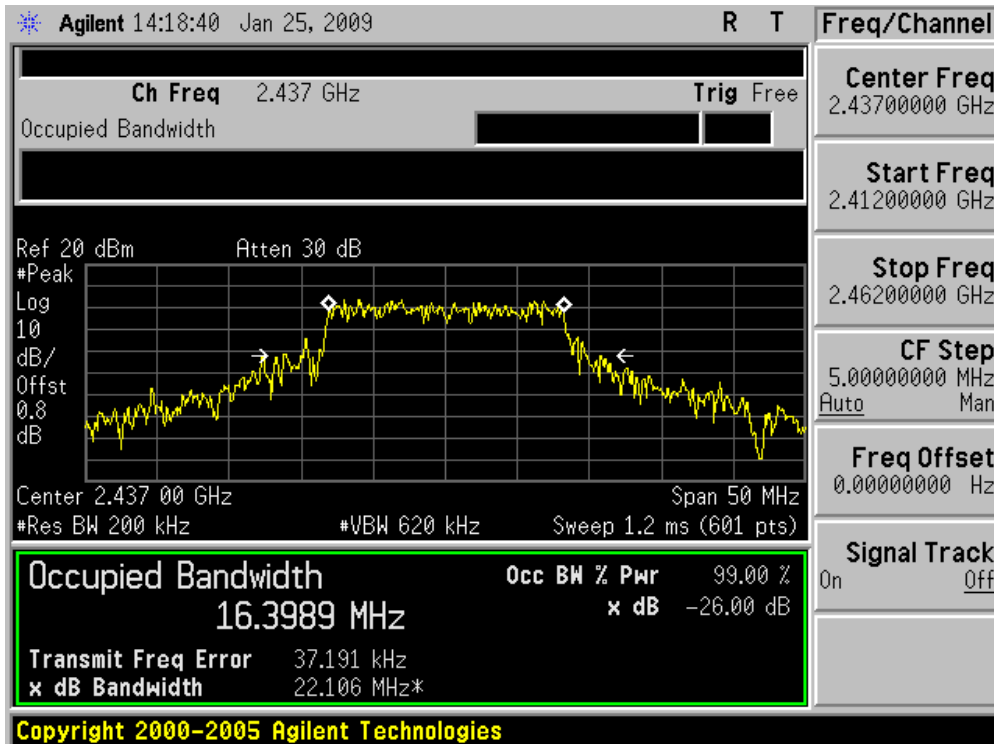
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	166944	N/A	Pass
06	2437	163989	N/A	Pass
11	2462	164847	N/A	Pass

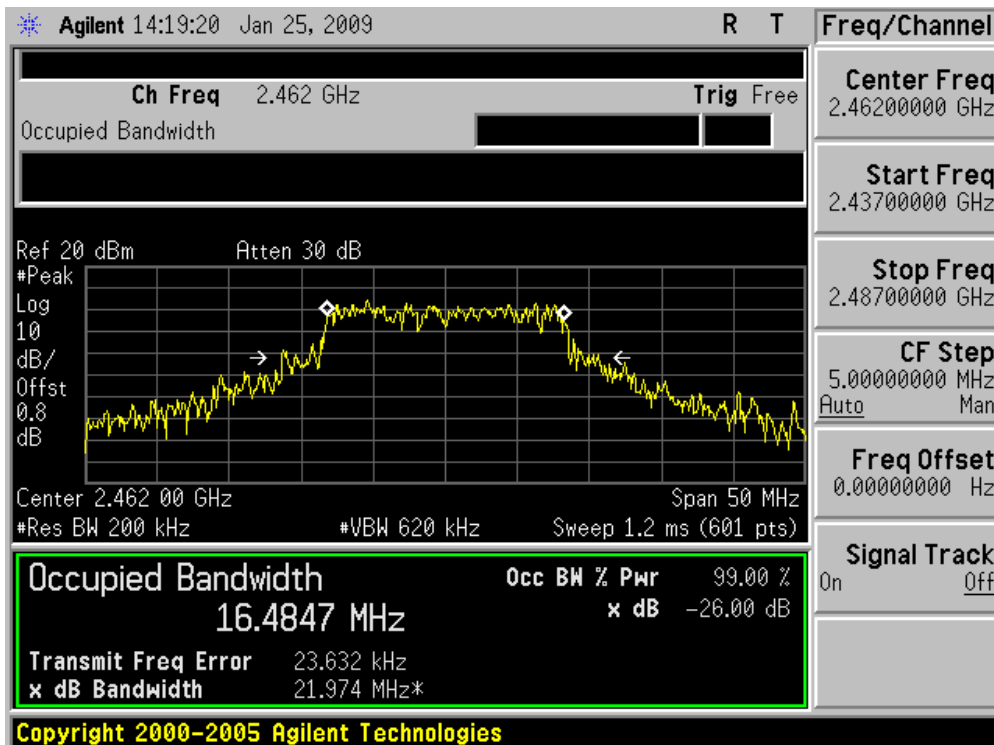
Channel 01 (2412MHz)



Channel 06 (2437MHz)



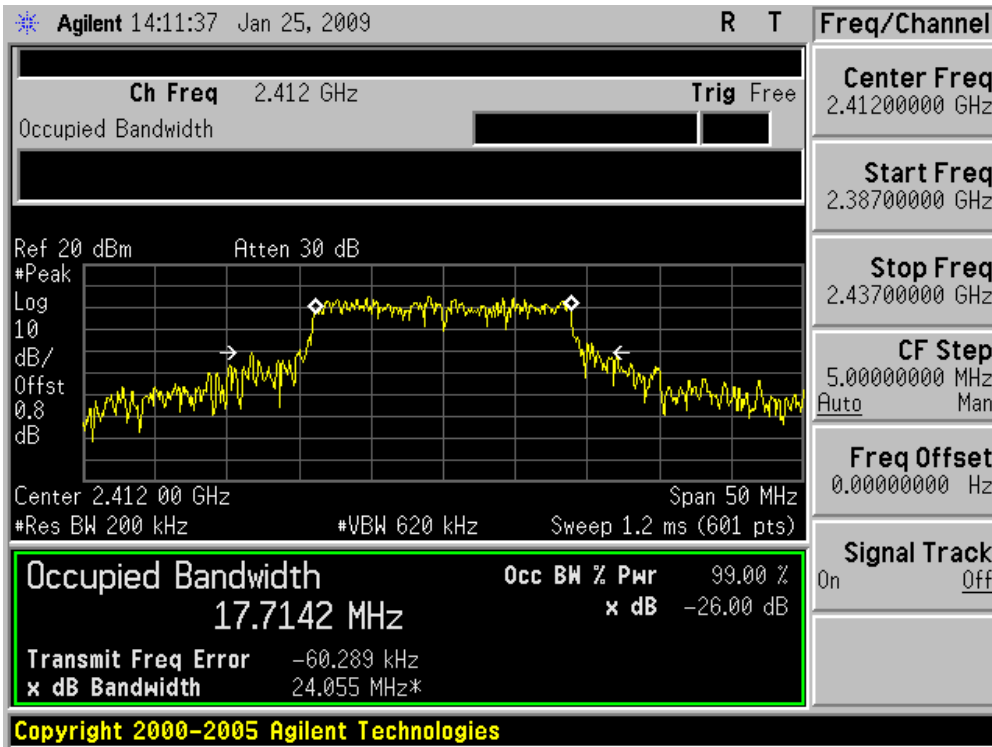
Channel 11 (2462MHz)



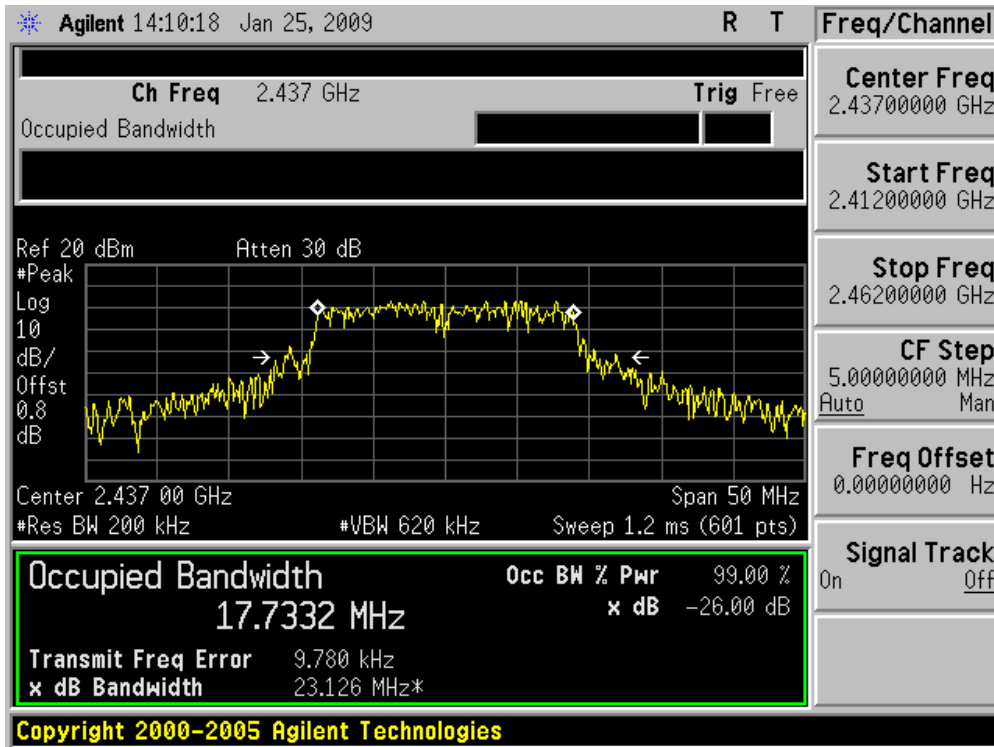
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	177142	N/A	Pass
06	2437	177332	N/A	Pass
11	2462	179641	N/A	Pass

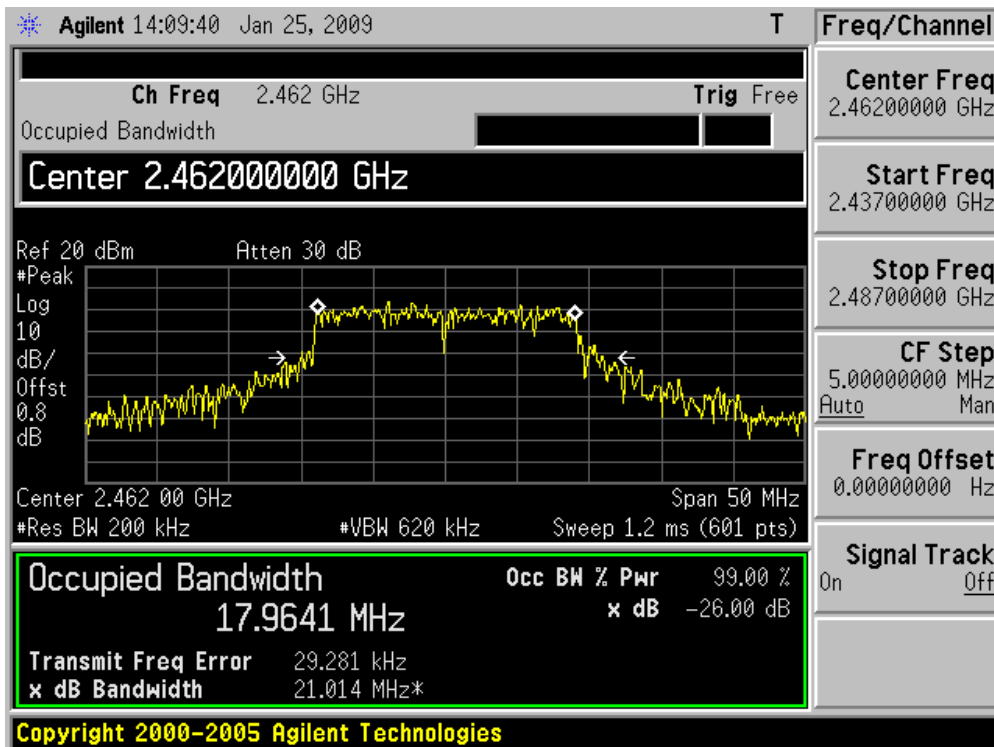
Channel 01 (2412MHz)



Channel 06 (2437MHz)



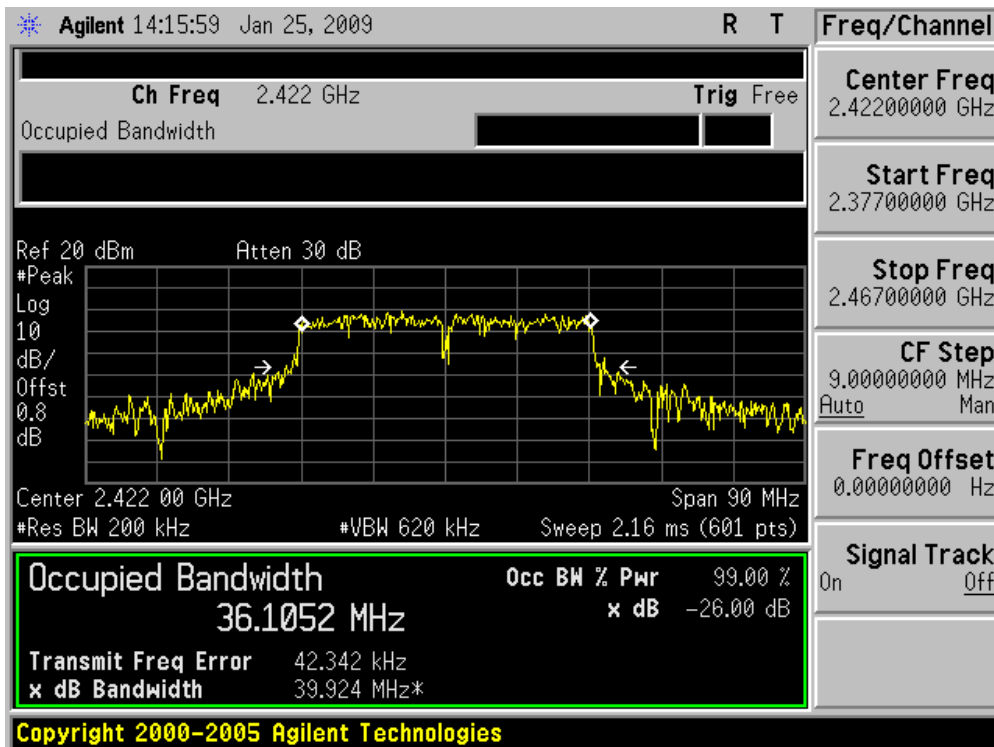
Channel 11 (2462MHz)



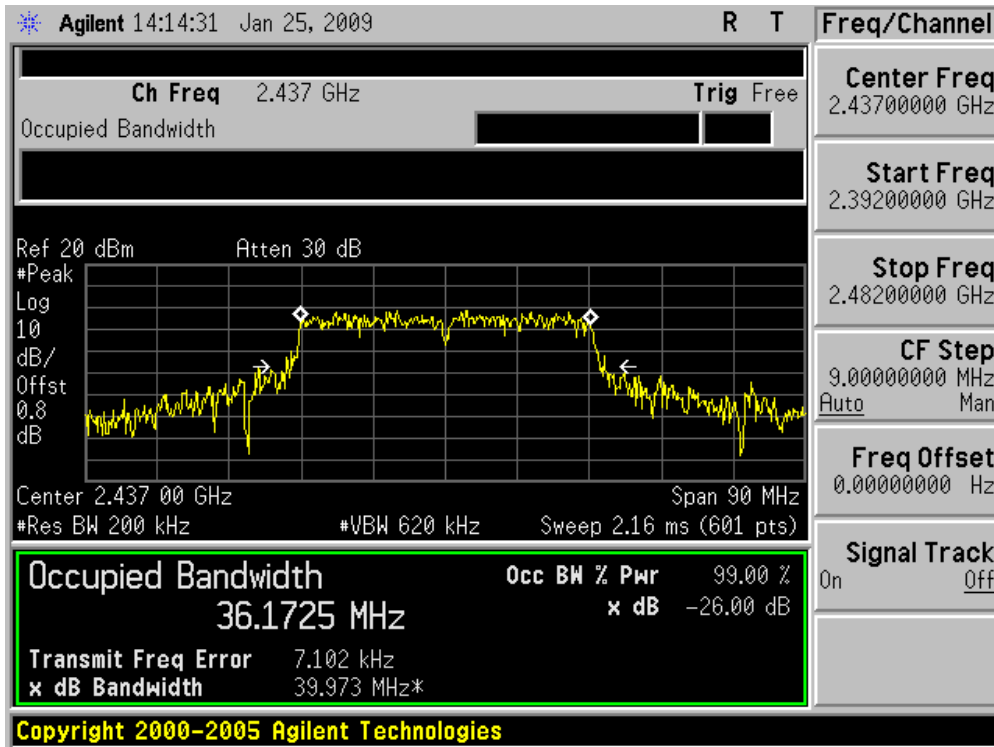
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	361052	N/A	Pass
06	2437	361725	N/A	Pass
09	2452	360145	N/A	Pass

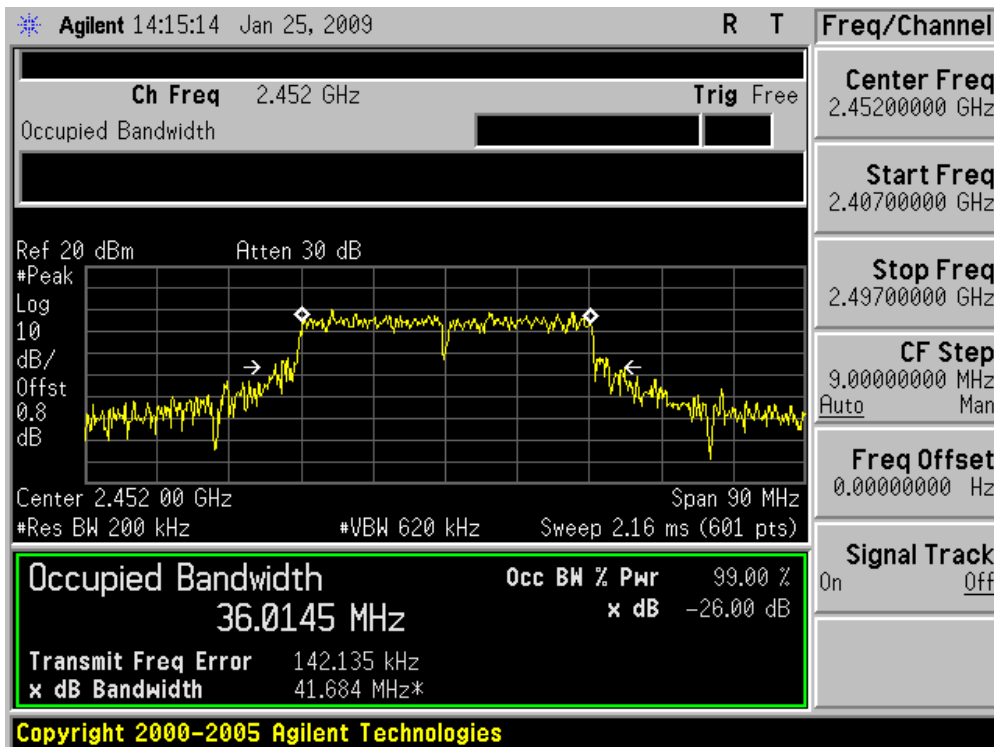
Channel 03 (2422MHz)



Channel 06 (2437MHz)



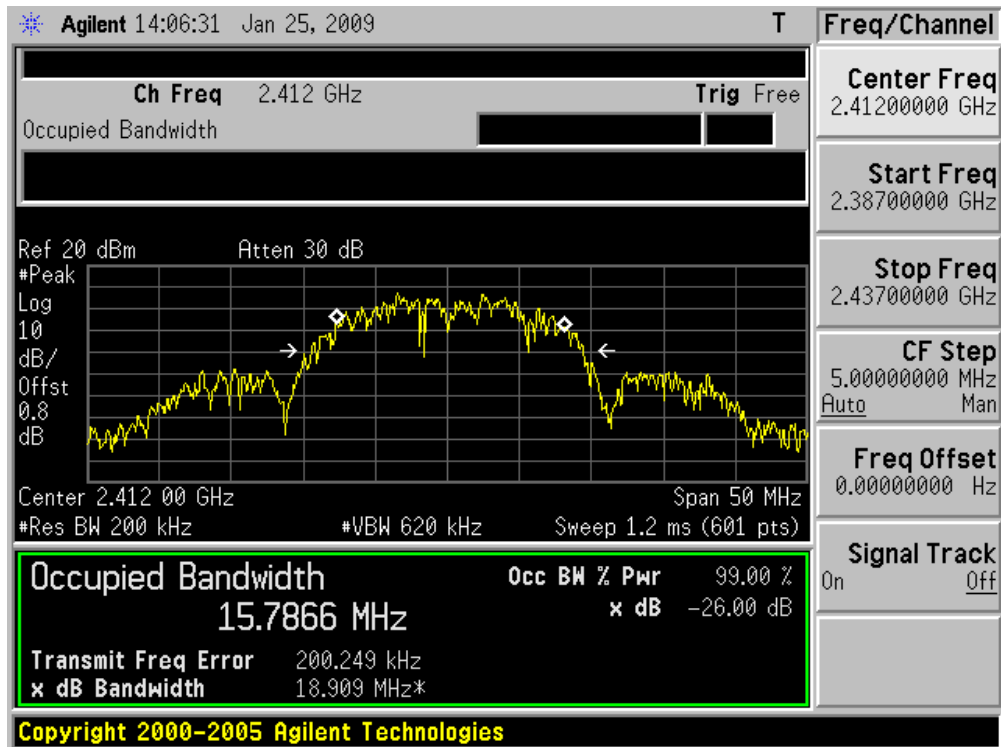
Channel 09 (2452MHz)



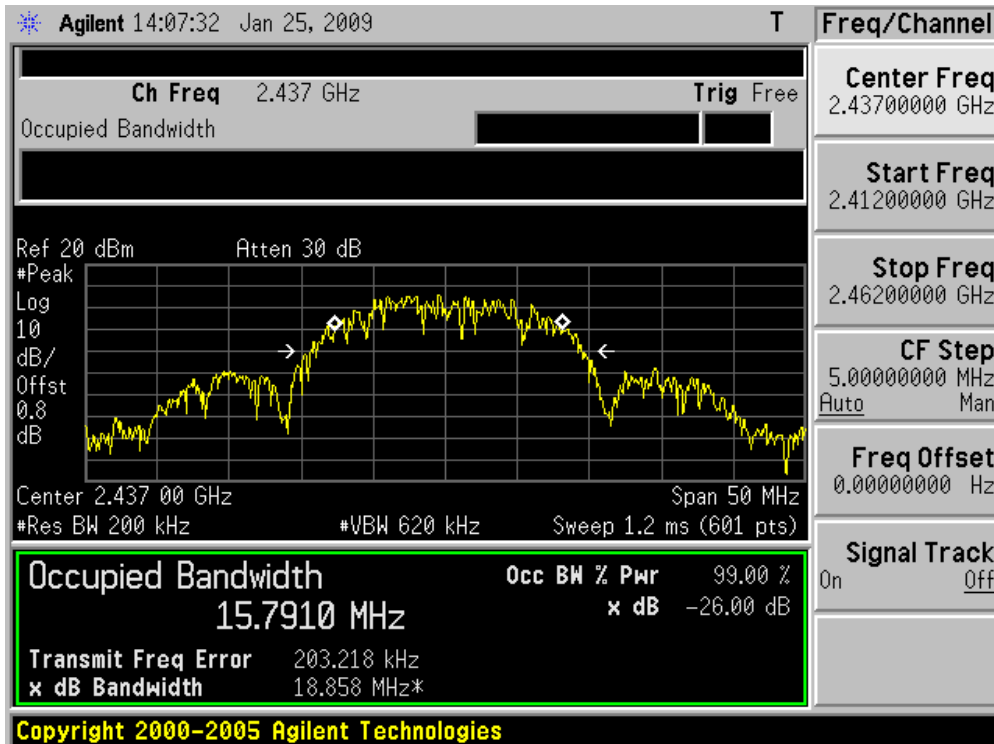
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15786.6	500	Pass
06	2437	15791.0	500	Pass
11	2462	15530.9	500	Pass

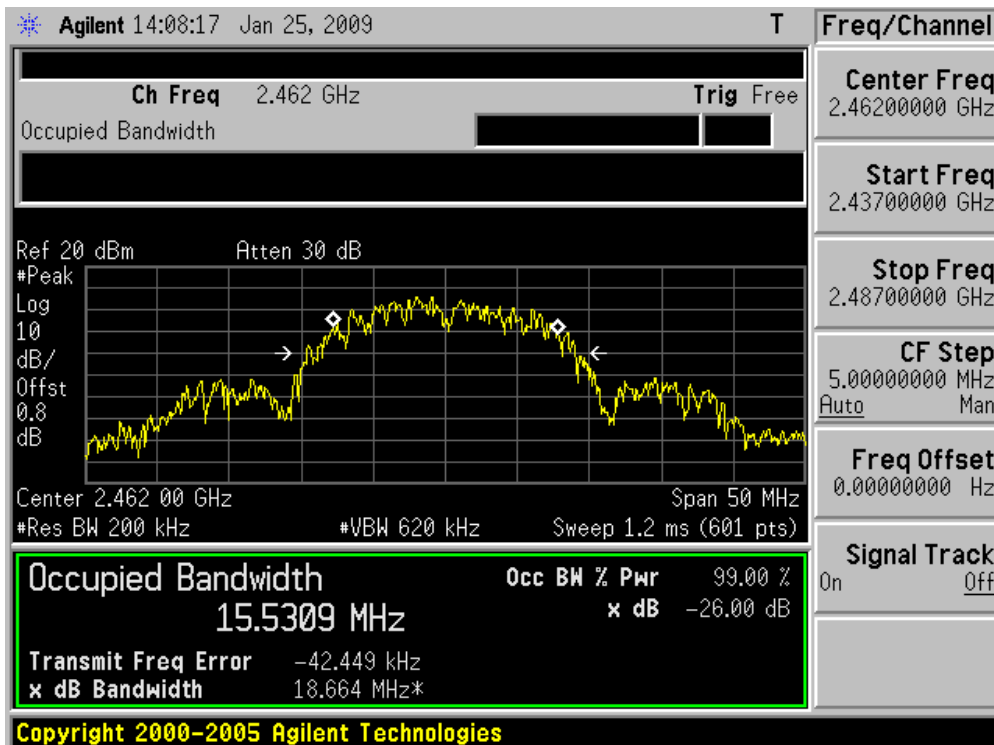
Channel 01 (2412MHz)



Channel 06 (2437MHz)



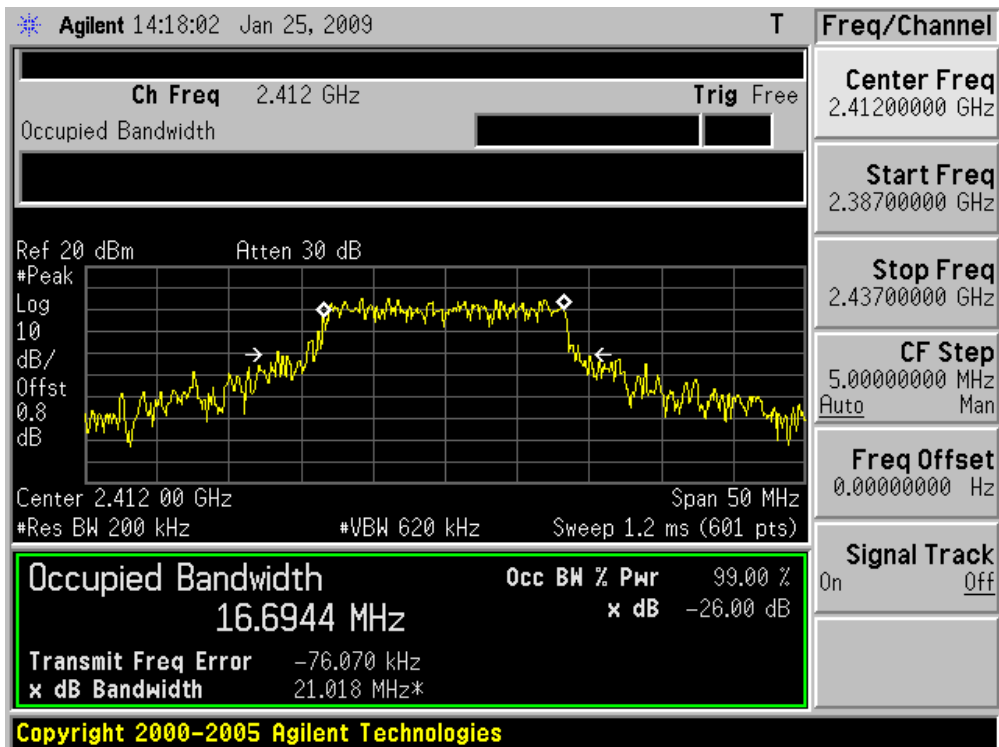
Channel 11 (2462MHz)



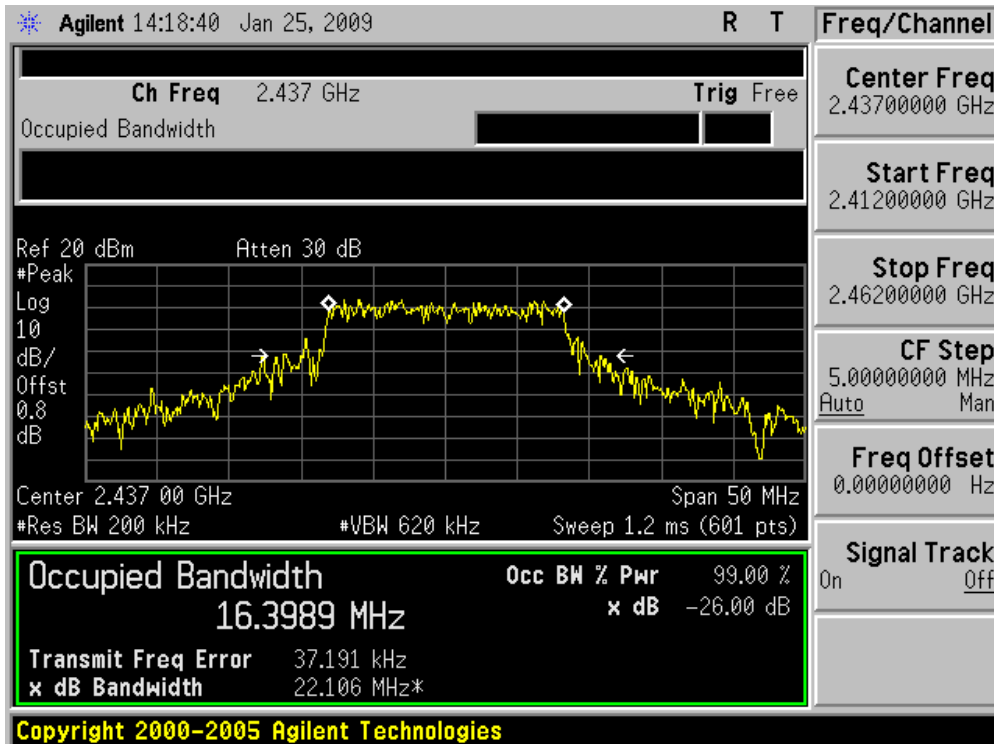
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16694.4	500	Pass
06	2437	16398.9	500	Pass
11	2462	16484.7	500	Pass

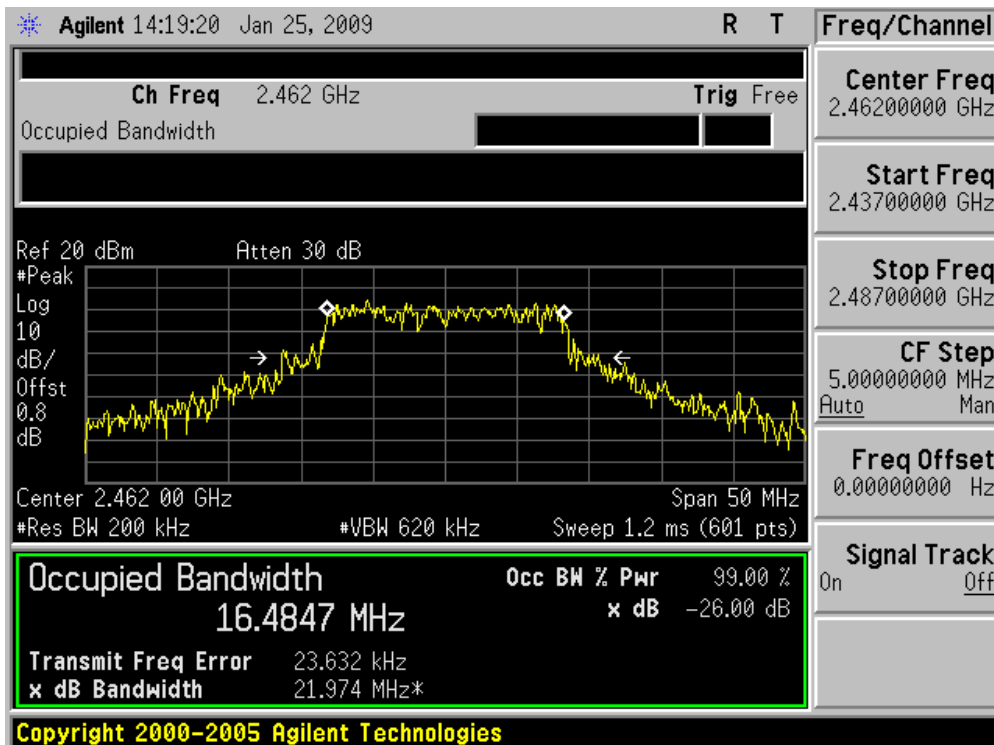
Channel 01 (2412MHz)



Channel 06 (2437MHz)



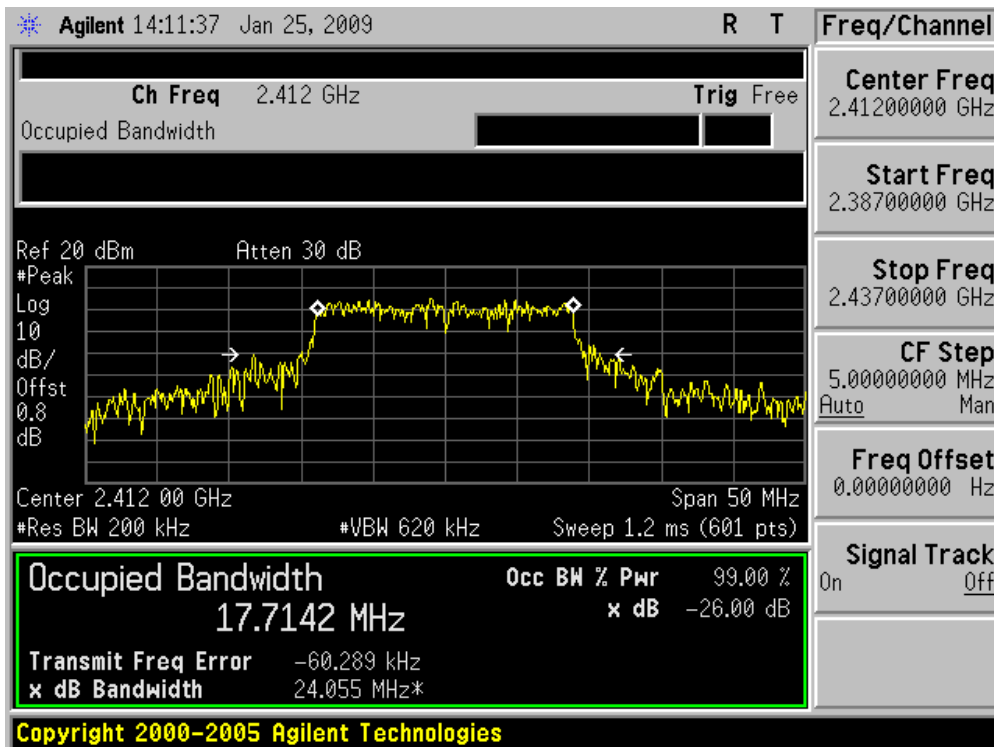
Channel 11 (2462MHz)



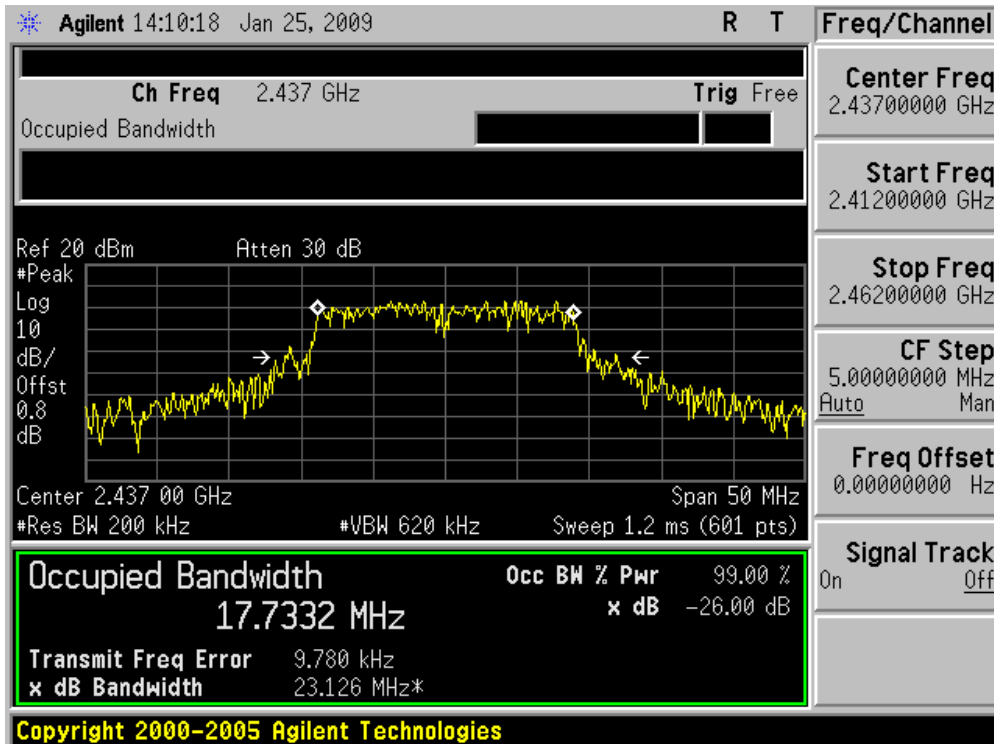
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17714.2	500	Pass
06	2437	17733.2	500	Pass
11	2462	17964.1	500	Pass

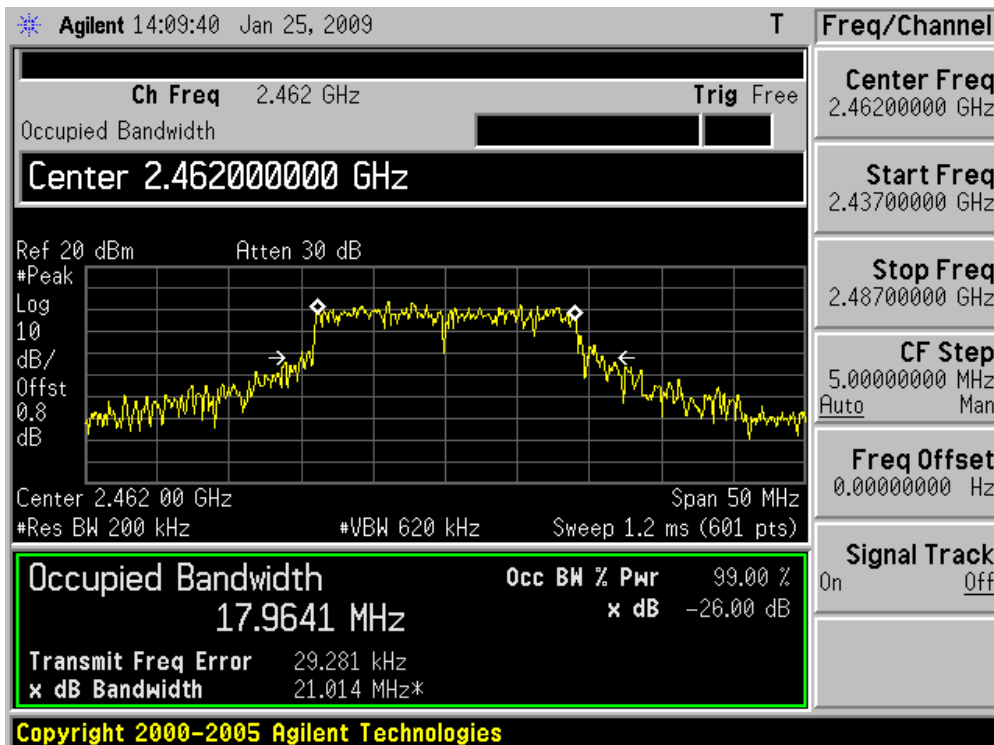
Channel 01 (2412MHz)



Channel 06 (2437MHz)



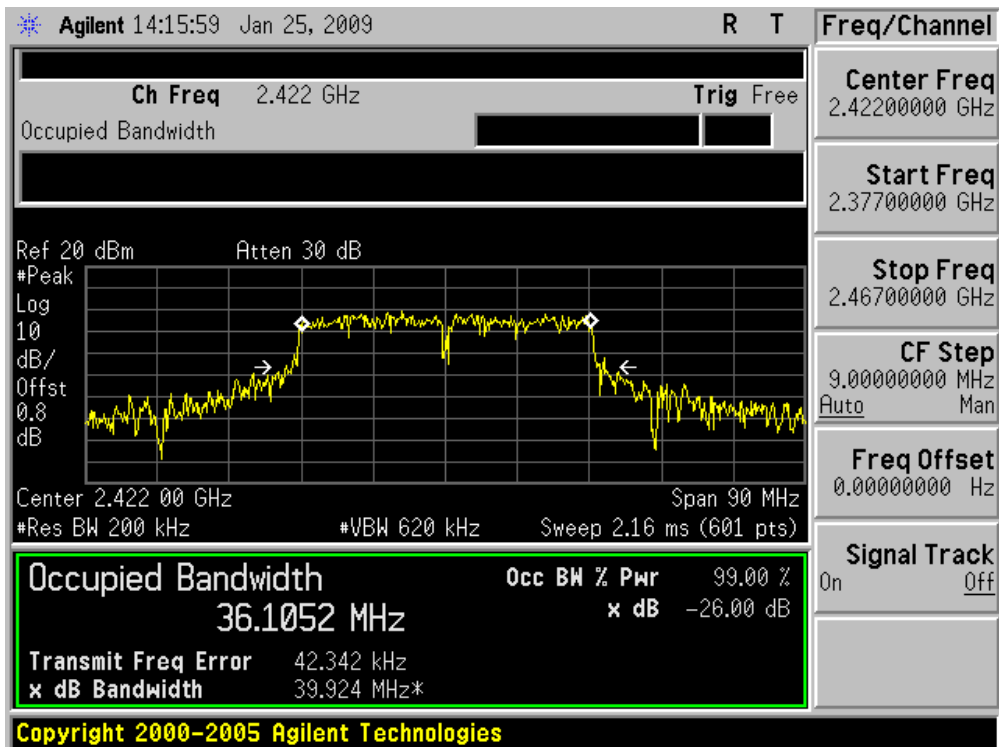
Channel 11 (2462MHz)



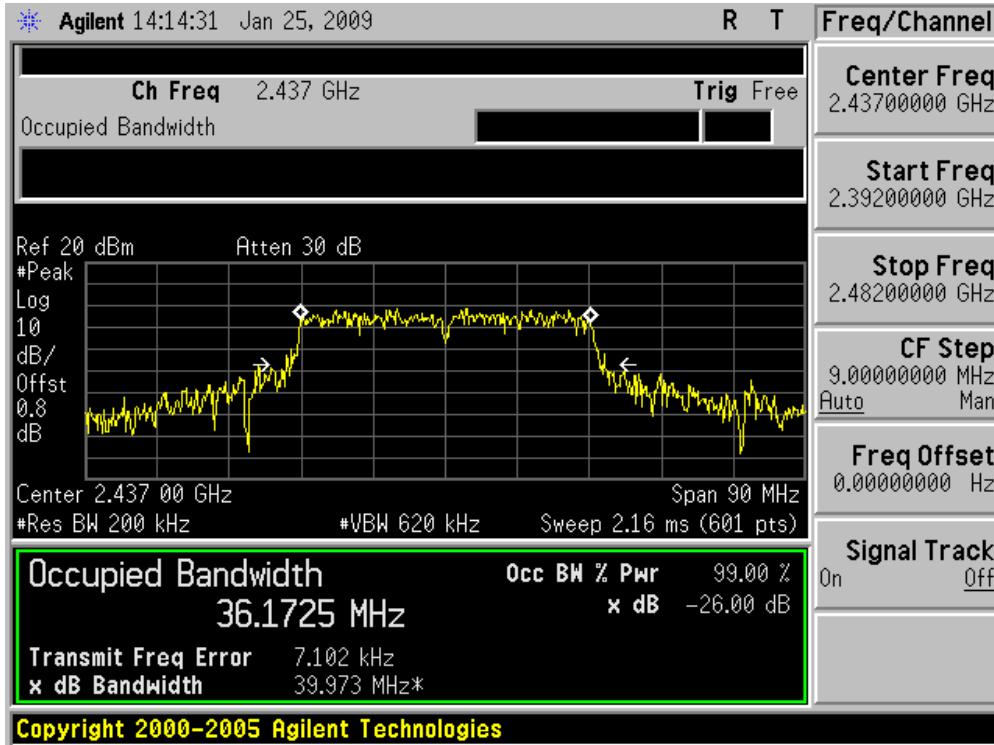
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36105.2	500	Pass
06	2437	36172.5	500	Pass
09	2452	36014.5	500	Pass

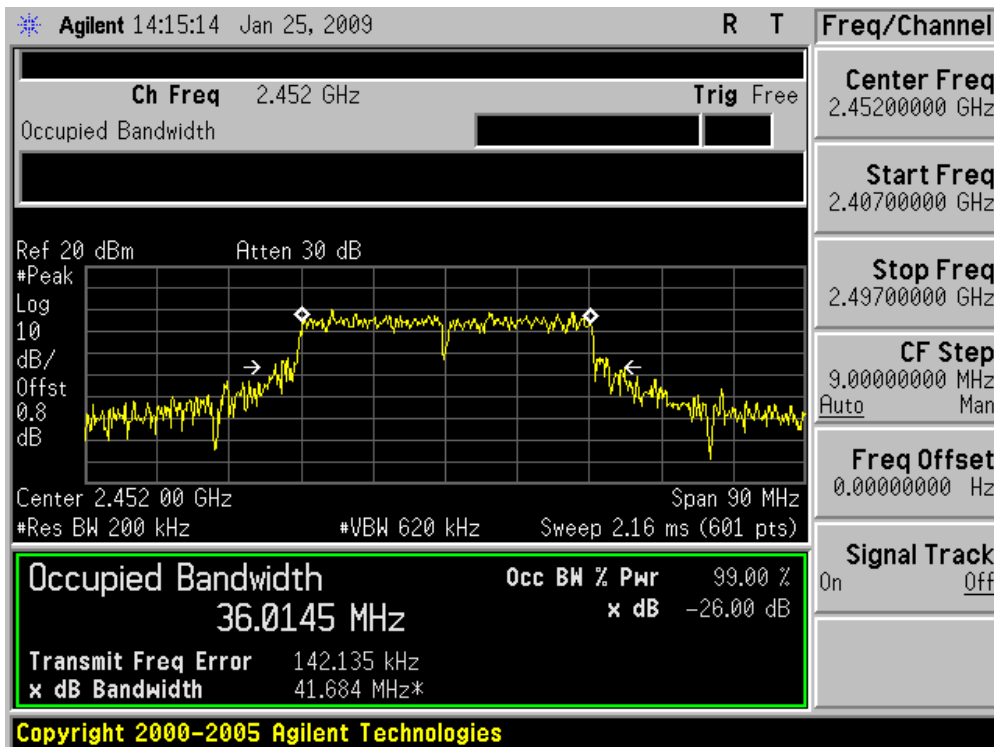
Channel 01 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



9. Power Output

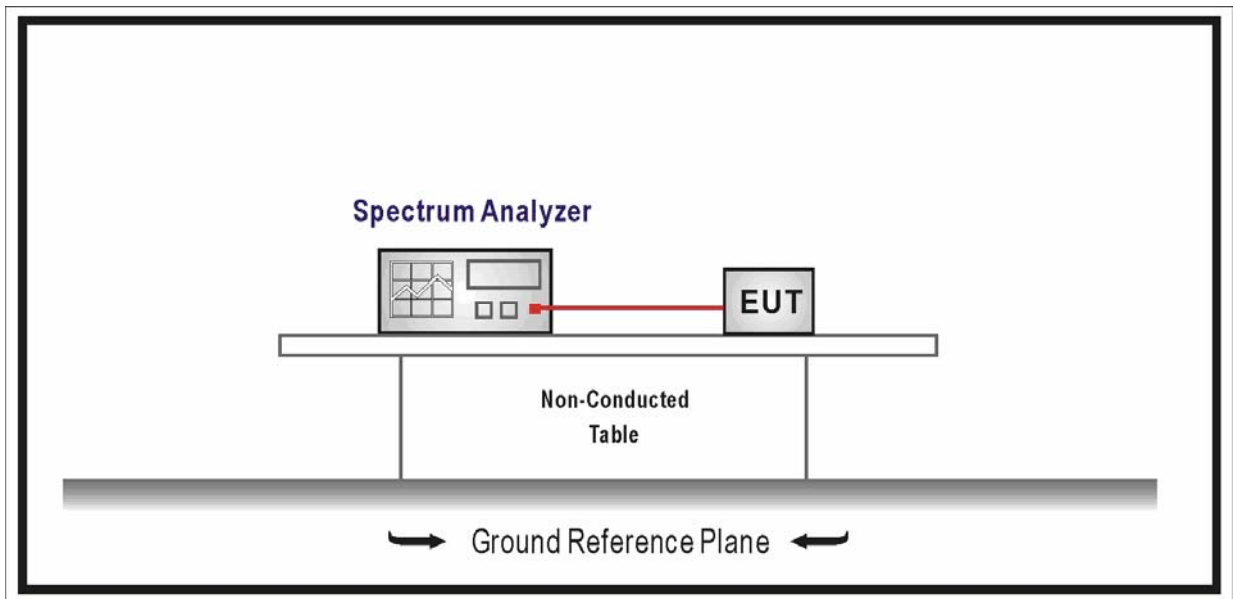
9.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2009.02.12
Power Sensor	Anritsu	MA2411B	0846014	2009.01.12
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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.

Power output measurement allowed per Section 15.247(b)(3).

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

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	18.84	0.8	19.64	30.00	Pass
6	2437	18.01	0.8	18.81	30.00	Pass
11	2462	17.83	0.8	18.63	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	24.48	0.8	25.28	30.00	Pass
6	2437	24.38	0.8	25.18	30.00	Pass
11	2462	24.10	0.8	24.90	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	24.40	0.8	25.20	30.00	Pass
6	2437	24.25	0.8	25.05	30.00	Pass
11	2462	24.10	0.8	24.90	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2422	23.17	0.8	23.97	30.00	Pass
6	2437	22.82	0.8	23.62	30.00	Pass
11	2452	22.55	0.8	23.35	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

10. Power Spectral Density

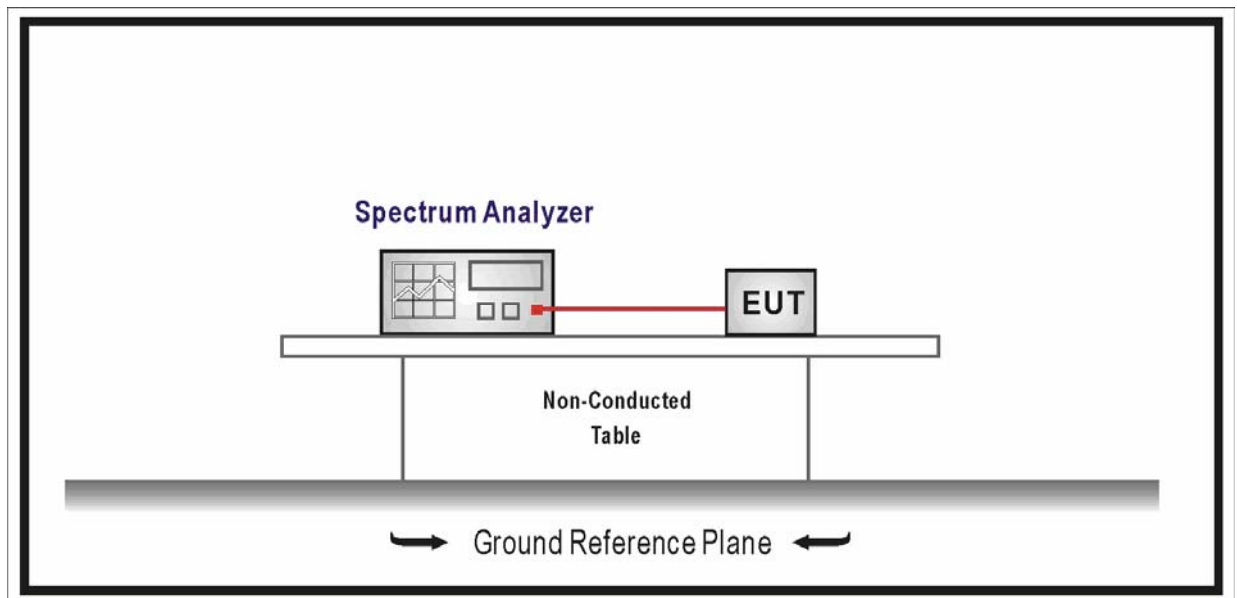
10.1. Test Equipment

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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, and choose option 2 test method for this item.

Set RBW= 3 kHz, Set VBW \cong 9 kHz, Sweep time=Auto, Set detector=Peak detector.

10.5. Uncertainty

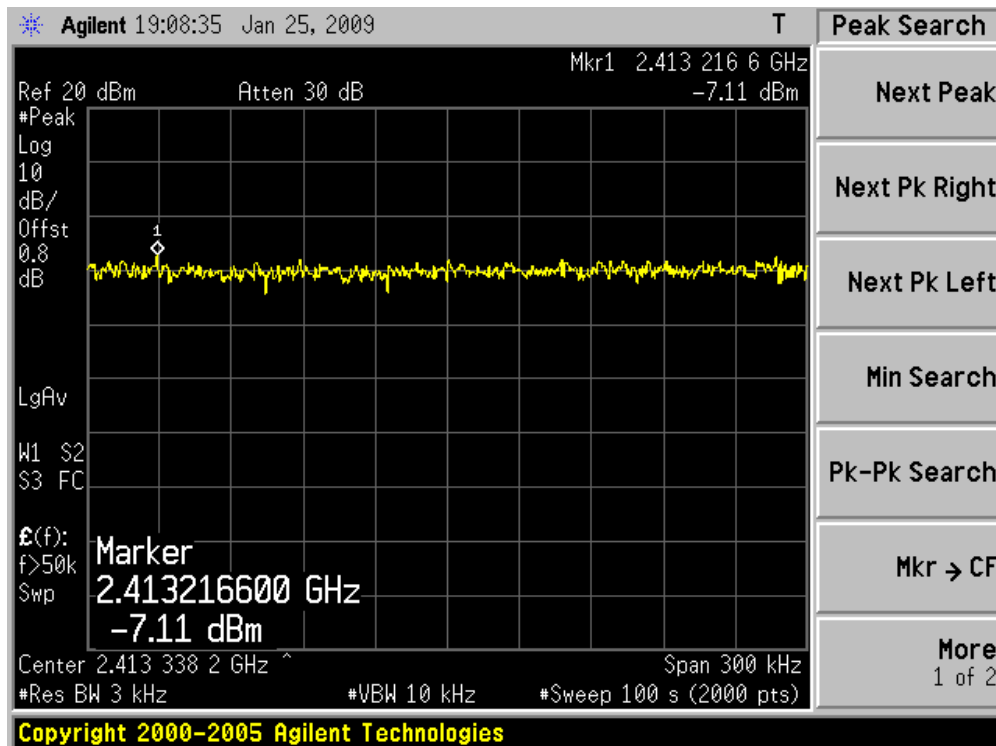
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

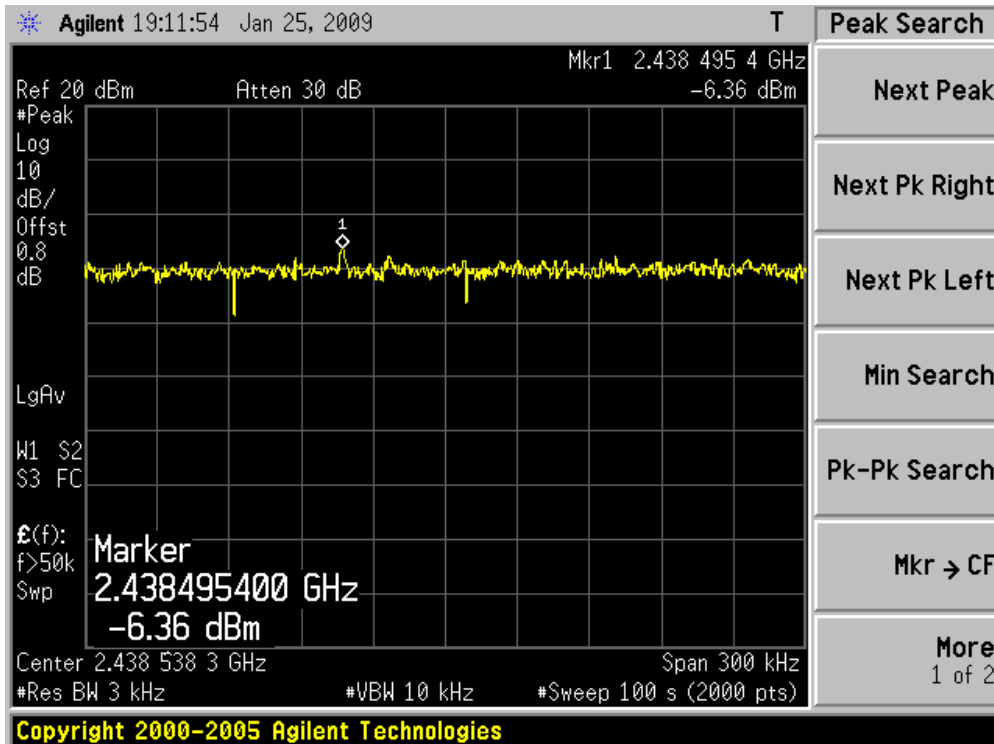
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

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

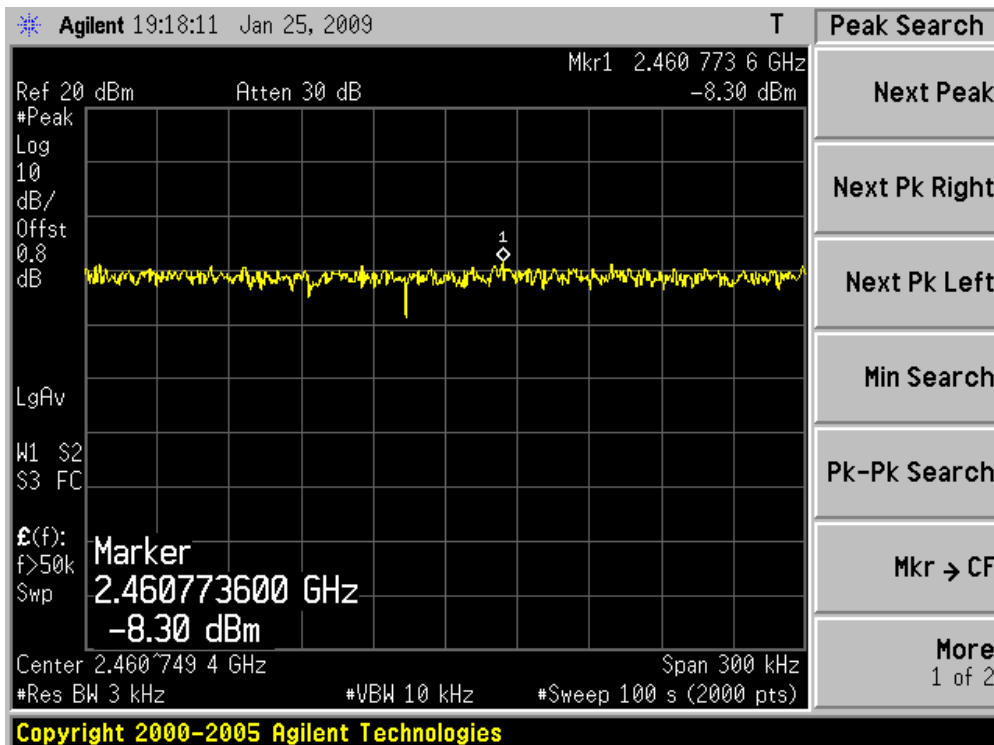
Channel 01 (2412MHz)



Channel 06 (2437MHz)



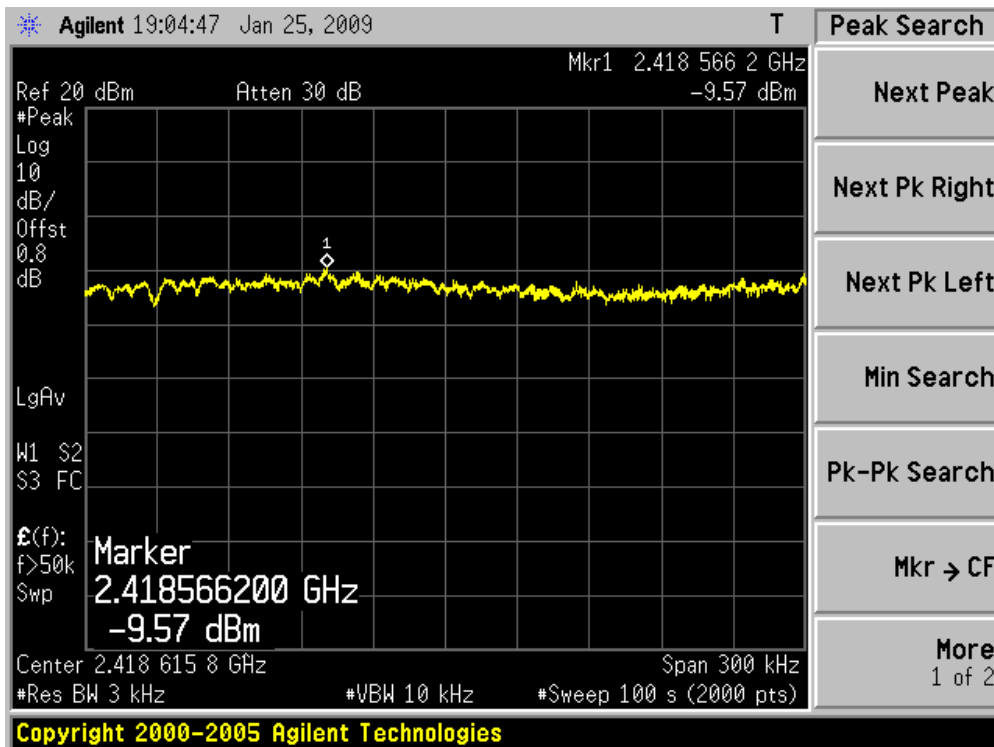
Channel 11 (2462MHz)



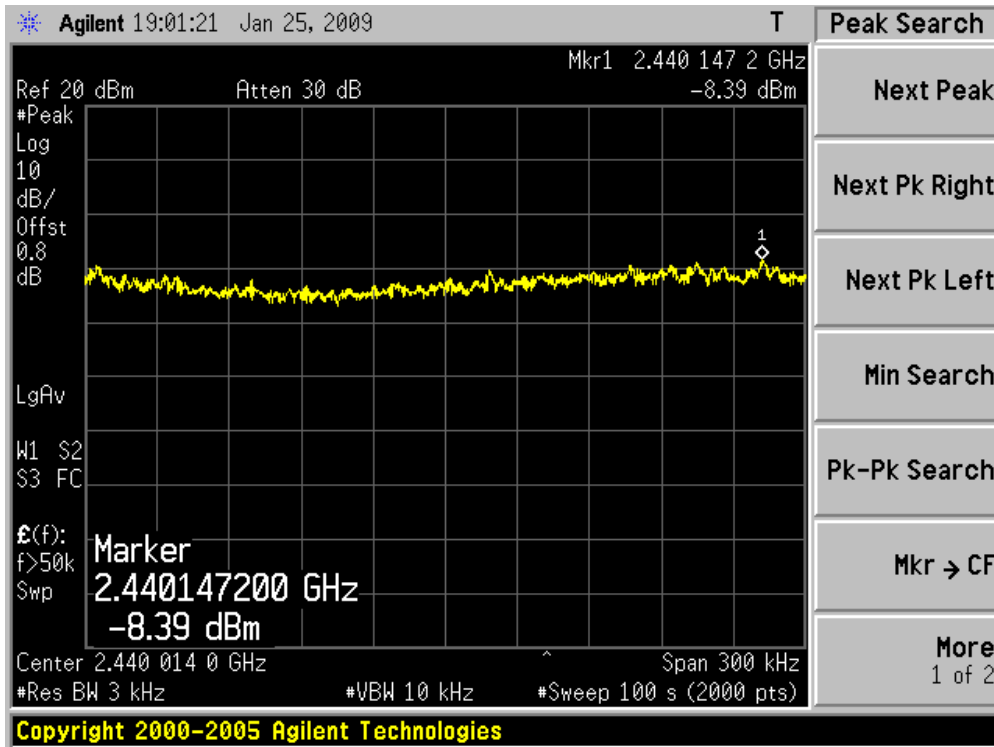
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

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

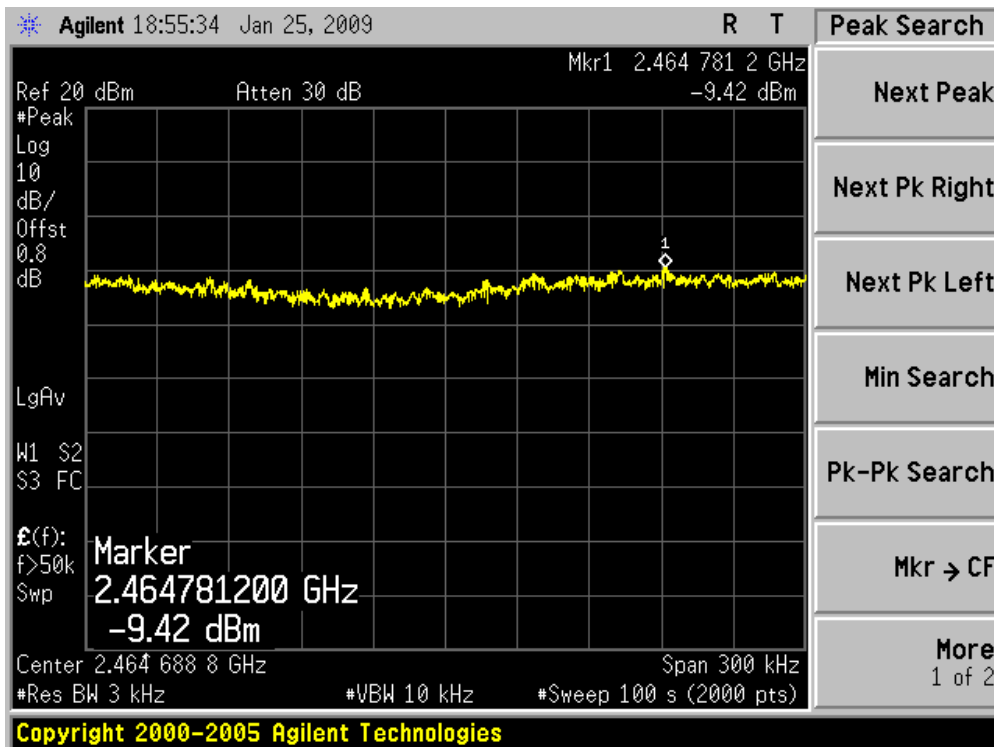
Channel 01 (2412MHz)



Channel 06 (2437MHz)



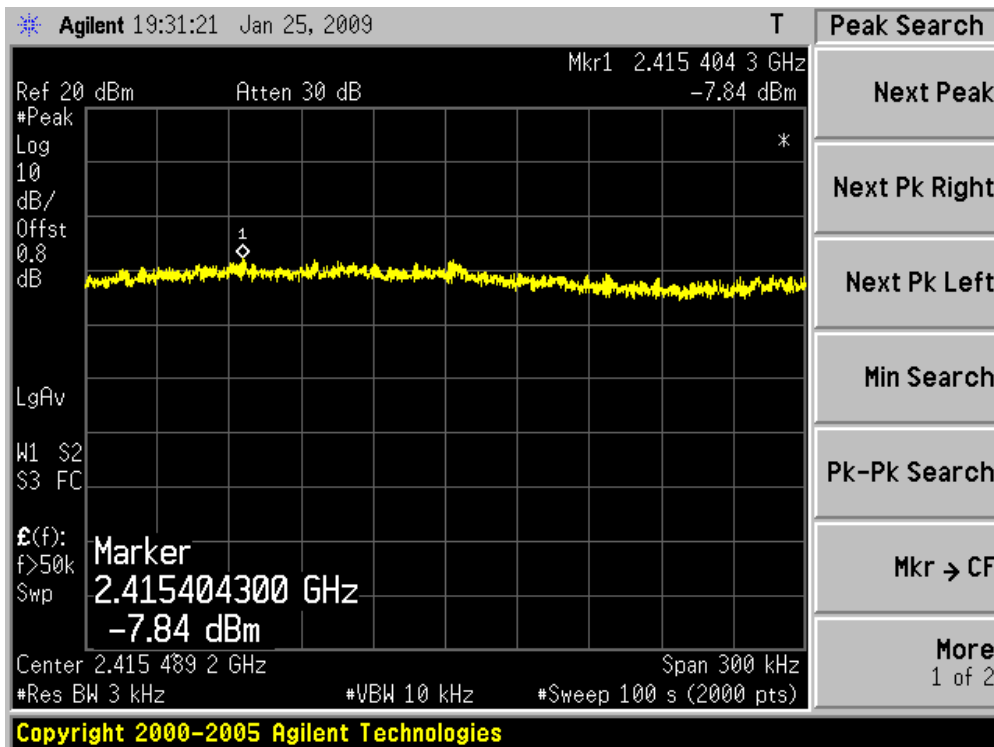
Channel 11 (2462MHz)



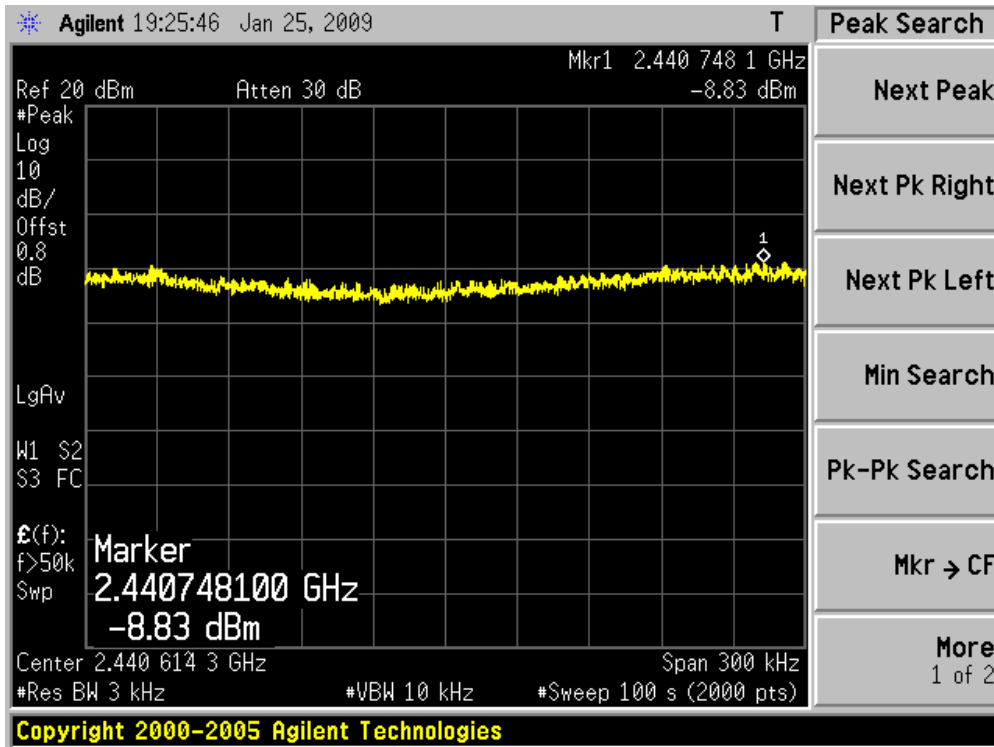
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

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

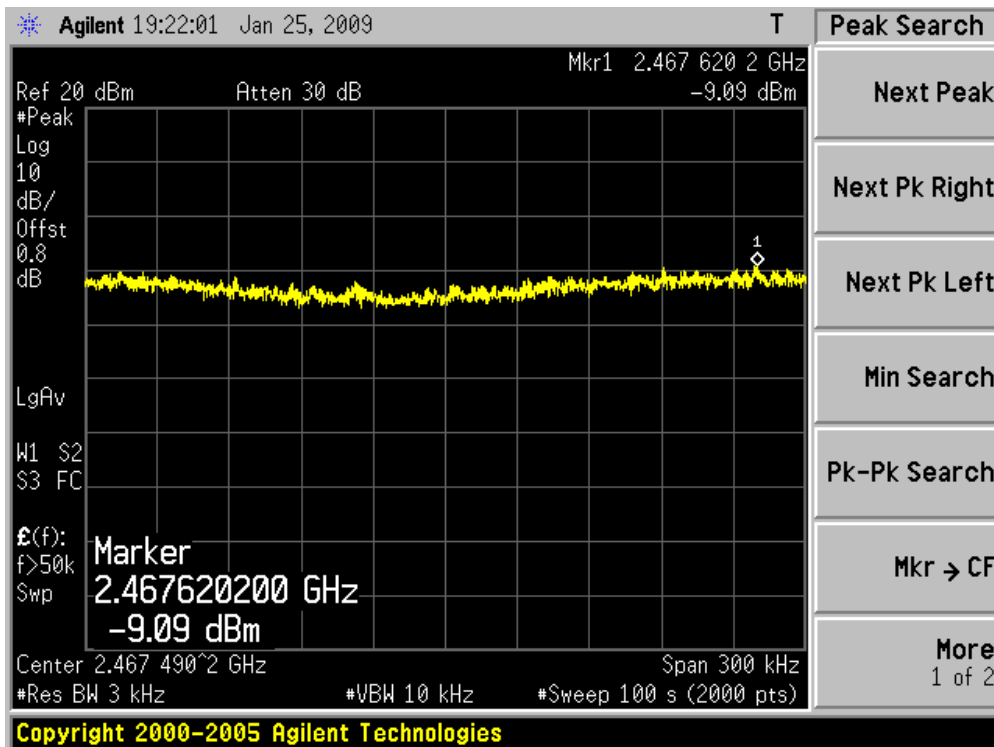
Channel 01 (2412MHz)



Channel 06 (2437MHz)



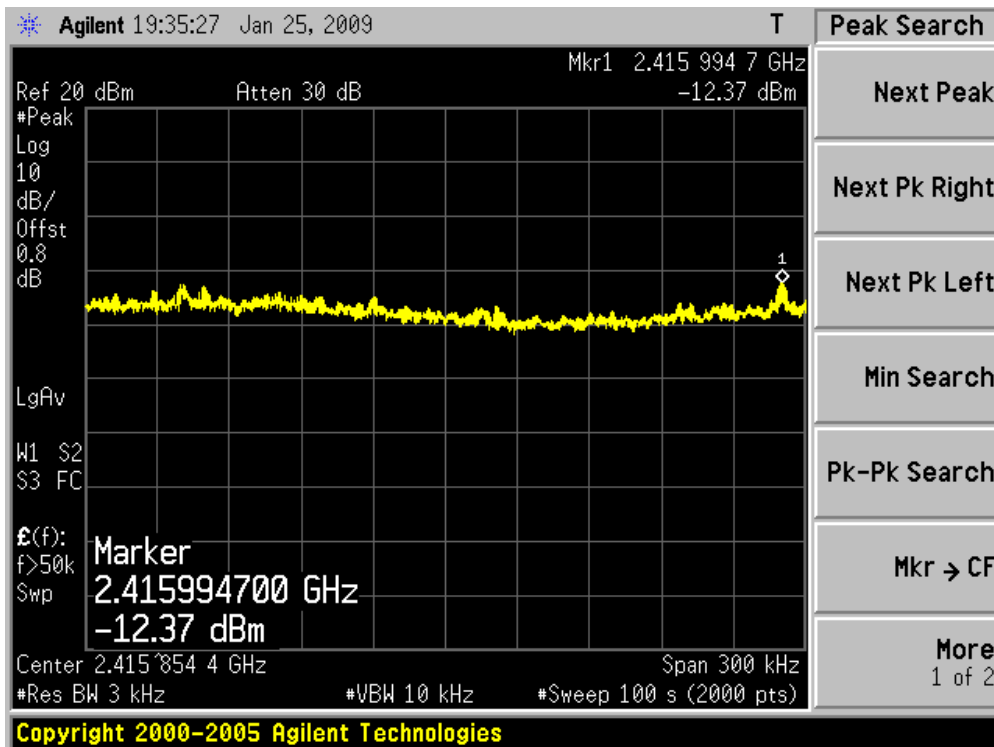
Channel 11 (2462MHz)



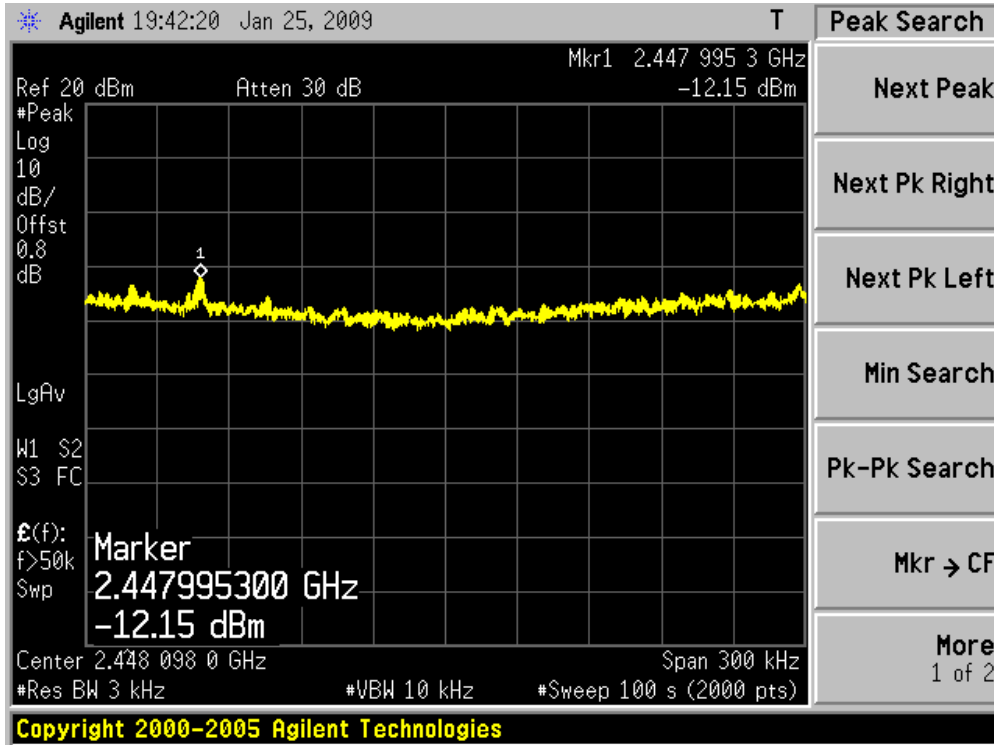
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

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

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

