



Test Report

Product Name	Eee PC
Model No	Eee PC1002HA, Eee PC 1002SA
FCC ID.	MSQEP12NE771
Transmitter Module	Atheros / AR5B91

Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	Sep. 23, 2008
Issue Date	Oct. 16, 2008
Report No.	089347R-RFUSP05V01-A
Version	V1.0

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Test Report Certification

Issue Date: Oct. 16, 2008

Report No.: 089347R-RFUSP05V01-A



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200533-0

Product Name	Eee PC
Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	1. PEGATRON CORPORATION Taoyuan Mfg 2. Protek (Shanghai) Limited. 3. NorthTec Asia (Shanghai) Limited.
Model No.	Eee PC1002HA, Eee PC 1002SA
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 3.3V(via Mini-PCI slot)
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2007 ANSI C63.4: 2003
Test Result	Complied



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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee PC1002HA, Eee PC 1002SA
FCC ID.	MSQEP12NE771
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW, 2422-2452MHz for 802.11n-40BW
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: 6.5-135Mbps
Type of Modulation	802.11b:DSSS DBPSK, DQPSK, CCK 802.11g/n:OFDM BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Power Adapter	MFR: DELTA, M/N: ADP-36EH C Cable out: Non-Shielded, 1.3m with one ferrite core bonded. Power Cord: Shielded, 0.9m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ACON	N/A	PIFA	3.66dBi in 2.4 GHz
2	YAGEO	N/A	PIFA	2.82dBi in 2.4 GHz

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11n-40MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2422 MHz	Channel 02:	2427 MHz	Channel 03:	2432 MHz	Channel 04:	2437 MHz
Channel 05:	2442 MHz	Channel 06:	2447 MHz	Channel 07:	2452 MHz		

Note:

1. The EUT is an Eee PC with a built-in 2.4GHz WLAN transceiver.
2. The different of the two model is shown as below:

Model Number	Description
Eee PC 1002SA	Without HDD with SSD
Eee PC 1002HA	With HDD without SSD

3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. Only the higher gain antenna Ant 1 was tested and recorded in this report.
5. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 11Mbps 、 802.11g is 54Mbps 、 802.11n(20M-BW) is 65Mbps and 、 802.11n(40M-BW) is 135Mbps)
6. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices
7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is an Eee PC with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps and the device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b). The device provided of eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11g).

The device provided of eight kinds of transmitting speed 6.5,13,19.5,26,39,52,58.5 and 65Mbps in 802.11n(20M-BW) mode and 13.5,27,40.5,54,81,108,121.5 and 135 Mbps(40M-BW) the device of RF carrier is BPSK, QPSK, 16QAM and 64QAM (IEEE 802.11n).

The device adapts direct sequence spread spectrum modulation. The antenna provides diversity function to improve the receiving function.

This Eee PC, compliant with IEEE 802.11b and IEEE 802.11g/n, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direst Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) radio transmission, the Eee PC Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g/n network.

Test Mode:	Mode 1: Transmitter (802.11b 11Mbps)-Ant 1
	Mode 2: Transmitter (802.11g 54Mbps)-Ant 1
	Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1
	Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

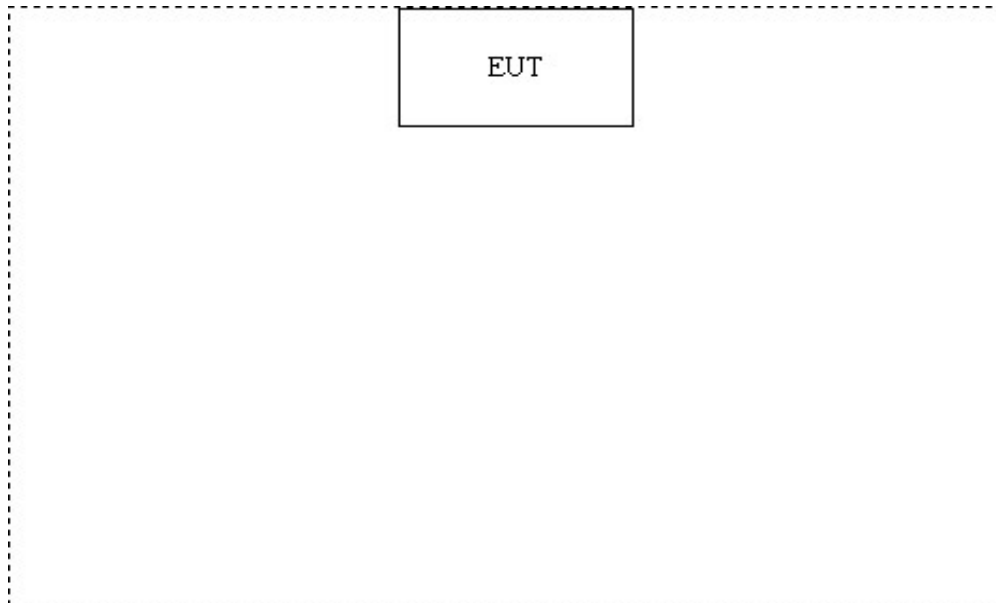
1.3. Tested System Details

The types for all equipment, 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

	Signal Cable Type	Signal cable Description
A	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute “ART 11n 0.6 b23” on the EUT.
- (3) Configure the test mode, the test channel, and the data rate to start the continuous transmit
- (4) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation’s Web Site : <http://tw.quietek.com/modules/myalbum/>
 The address and introduction of Quietek Corporation’s laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
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 Registration Number: 92195



Accreditation on NVLAP
 NVLAP Lab Code: 200533-0



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FCC Accreditation Number: TW1014



2. Conducted Emission

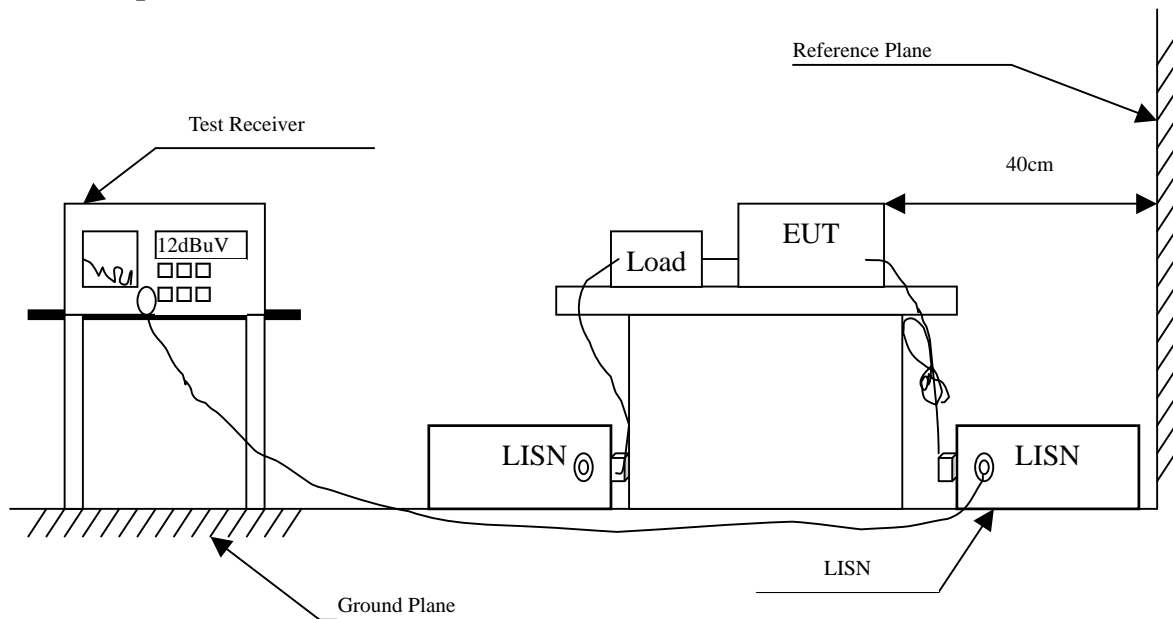
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2008	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2008	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2008	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2008	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

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

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

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

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.189	9.714	24.860	34.574	-30.312	64.886
0.232	9.685	20.860	30.545	-33.112	63.657
0.283	9.656	13.080	22.736	-39.464	62.200
0.322	9.650	10.310	19.960	-41.126	61.086
0.611	9.630	6.900	16.530	-39.470	56.000
3.154	9.690	7.200	16.890	-39.110	56.000
Average					
0.189	9.714	16.860	26.574	-28.312	54.886
0.232	9.685	14.200	23.885	-29.772	53.657
0.283	9.656	6.350	16.006	-36.194	52.200
0.322	9.650	4.860	14.510	-36.576	51.086
0.611	9.630	0.350	9.980	-36.020	46.000
3.154	9.690	1.980	11.670	-34.330	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.185	9.727	26.630	36.358	-28.642	65.000
0.279	9.667	15.310	24.977	-37.337	62.314
0.650	9.650	7.990	17.640	-38.360	56.000
2.591	9.690	1.220	10.910	-45.090	56.000
6.599	9.740	5.870	15.610	-44.390	60.000
26.345	10.160	6.020	16.180	-43.820	60.000
Average					
0.185	9.727	18.530	28.258	-26.742	55.000
0.279	9.667	7.820	17.487	-34.827	52.314
0.650	9.650	4.160	13.810	-32.190	46.000
2.591	9.690	-3.100	6.590	-39.410	46.000
6.599	9.740	0.820	10.560	-39.440	50.000
26.345	10.160	1.080	11.240	-38.760	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1(2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.181	9.724	22.740	32.464	-32.650	65.114
0.236	9.682	19.000	28.682	-34.861	63.543
0.275	9.659	12.820	22.479	-39.950	62.429
0.736	9.636	9.500	19.136	-36.864	56.000
3.537	9.700	5.790	15.490	-40.510	56.000
7.720	9.780	7.160	16.940	-43.060	60.000
Average					
0.181	9.724	13.540	23.264	-31.850	55.114
0.236	9.682	11.210	20.892	-32.651	53.543
0.275	9.659	5.310	14.969	-37.460	52.429
0.736	9.636	2.170	11.806	-34.194	46.000
3.537	9.700	0.630	10.330	-35.670	46.000
7.720	9.780	2.130	11.910	-38.090	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1(2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBUV	Measurement Level dBUV	Margin dB	Limit dBUV
Line 2					
Quasi-Peak					
0.181	9.732	22.760	32.492	-32.622	65.114
0.232	9.695	20.710	30.405	-33.252	63.657
0.283	9.666	13.400	23.066	-39.134	62.200
0.748	9.660	6.480	16.140	-39.860	56.000
3.361	9.690	4.990	14.680	-41.320	56.000
11.525	9.870	6.540	16.410	-43.590	60.000
Average					
0.181	9.732	13.690	23.422	-31.692	55.114
0.232	9.695	13.380	23.075	-30.582	53.657
0.283	9.666	5.530	15.196	-37.004	52.200
0.748	9.660	1.130	10.790	-35.210	46.000
3.361	9.690	0.330	10.020	-35.980	46.000
11.525	9.870	1.790	11.660	-38.340	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.185	9.719	26.610	36.329	-28.671	65.000
0.236	9.682	18.600	28.282	-35.261	63.543
0.275	9.659	13.560	23.219	-39.210	62.429
0.744	9.639	9.580	19.219	-36.781	56.000
3.212	9.690	8.340	18.030	-37.970	56.000
7.880	9.780	6.250	16.030	-43.970	60.000
Average					
0.185	9.719	18.980	28.699	-26.301	55.000
0.236	9.682	11.700	21.382	-32.161	53.543
0.275	9.659	6.960	16.619	-35.810	52.429
0.744	9.639	5.370	15.009	-30.991	46.000
3.212	9.690	3.030	12.720	-33.280	46.000
7.880	9.780	1.230	11.010	-38.990	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.181	9.732	23.280	33.012	-32.102	65.114
0.232	9.695	20.740	30.435	-33.222	63.657
0.322	9.660	9.810	19.470	-41.616	61.086
0.697	9.650	10.740	20.390	-35.610	56.000
1.916	9.680	1.450	11.130	-44.870	56.000
6.302	9.730	5.620	15.350	-44.650	60.000
Average					
0.181	9.732	14.480	24.212	-30.902	55.114
0.232	9.695	13.460	23.155	-30.502	53.657
0.322	9.660	2.780	12.440	-38.646	51.086
0.697	9.650	3.790	13.440	-32.560	46.000
1.916	9.680	-2.680	7.000	-39.000	46.000
6.302	9.730	0.660	10.390	-39.610	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 1					
Quasi-Peak					
0.189	9.714	25.090	34.804	-30.082	64.886
0.228	9.688	18.260	27.948	-35.823	63.771
0.701	9.630	10.860	20.490	-35.510	56.000
2.232	9.680	8.470	18.150	-37.850	56.000
7.115	9.760	6.220	15.980	-44.020	60.000
12.505	9.896	5.750	15.646	-44.354	60.000
Average					
0.189	9.714	17.110	26.824	-28.062	54.886
0.228	9.688	10.440	20.128	-33.643	53.771
0.701	9.630	4.810	14.440	-31.560	46.000
2.232	9.680	4.660	14.340	-31.660	46.000
7.115	9.760	1.130	10.890	-39.110	50.000
12.505	9.896	0.960	10.856	-39.144	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Eee PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
Line 2					
Quasi-Peak					
0.185	9.727	26.630	36.358	-28.642	65.000
0.279	9.667	15.370	25.037	-37.277	62.314
0.459	9.640	5.870	15.510	-41.661	57.171
1.771	9.680	1.510	11.190	-44.810	56.000
5.541	9.720	5.000	14.720	-45.280	60.000
15.904	10.000	6.330	16.330	-43.670	60.000
Average					
0.185	9.727	18.620	28.348	-26.652	55.000
0.279	9.667	7.890	17.557	-34.757	52.314
0.459	9.640	-0.110	9.530	-37.641	47.171
1.771	9.680	-2.660	7.020	-38.980	46.000
5.541	9.720	0.130	9.850	-40.150	50.000
15.904	10.000	1.480	11.480	-38.520	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

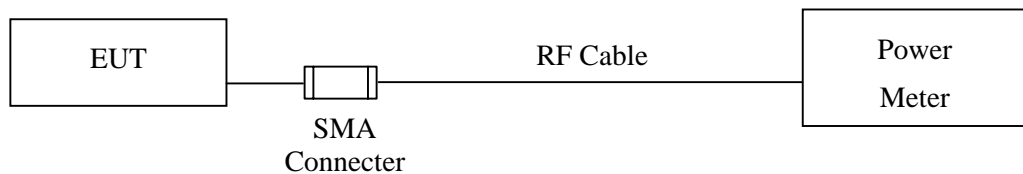
The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Power Meter	Anritsu	ML2495A/6K00003357	May, 2008
X Power Sensor	Anritsu	MA2491A/034457	May, 2008

Note: 1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

3.2. Test Setup

Conducted Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : Eee PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

Cable Loss=0.5dB		Peak Power Output				Required Limit
Channel No.	Frequency (MHz)	Data Rate				
		1	2	5.5	11	
1	2412.00	--	--	--	22.16	1Watt= 30 dBm
6	2437.00	21.85	21.92	21.81	22.81	1Watt= 30 dBm
11	2462.00	--	--	--	22.08	1Watt= 30 dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

Product : Eee PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

Cable Loss=0.5dB		Peak Power Output								
Channel No.	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412.00	--	--	--	--	--	--	--	24.05	1Watt= 30 dBm
6	2437.00	23.01	23.05	23.07	23.33	23.41	23.48	24.12	24.19	1Watt= 30 dBm
11	2462.00	--	--	--	--	--	--	--	24.18	1Watt= 30 dBm

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

Product : Eee PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

Ant A+ Ant B

Cable Loss=0.5dB		Peak Power Output								Required Limit
Channel No.	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5		
1	2412.00	--	--	--	--	--	--	--	23.82	1Watt= 30 dBm
6	2437.00	22.59	22.82	22.83	22.77	22.98	23.03	23.06	23.15	1Watt= 30 dBm
11	2462.00	--	--	--	--	--	--	--	23.67	1Watt= 30 dBm

Note: Peak Power Output Value =Ant A + Ant B

Product : Eee PC
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

Ant A + Ant B

Cable Loss=0.5dB		Peak Power Output									
Channel No.	Frequency (MHz)	Data Rate								Required Limit	
		13.5	27	40.5	54	81	108	121.5	135		
1	2422.00	--	--	--	--	--	--	--	--	23.22	1Watt= 30 dBm
4	2437.00	22.51	22.57	22.61	22.68	22.76	22.81	22.97	23.15		1Watt= 30 dBm
7	2452.00	--	--	--	--	--	--	--	--	22.98	1Watt= 30 dBm

Note: Peak Power Output Value =Ant A + Ant B

4. Radiated Emission

4.1. Test Equipment

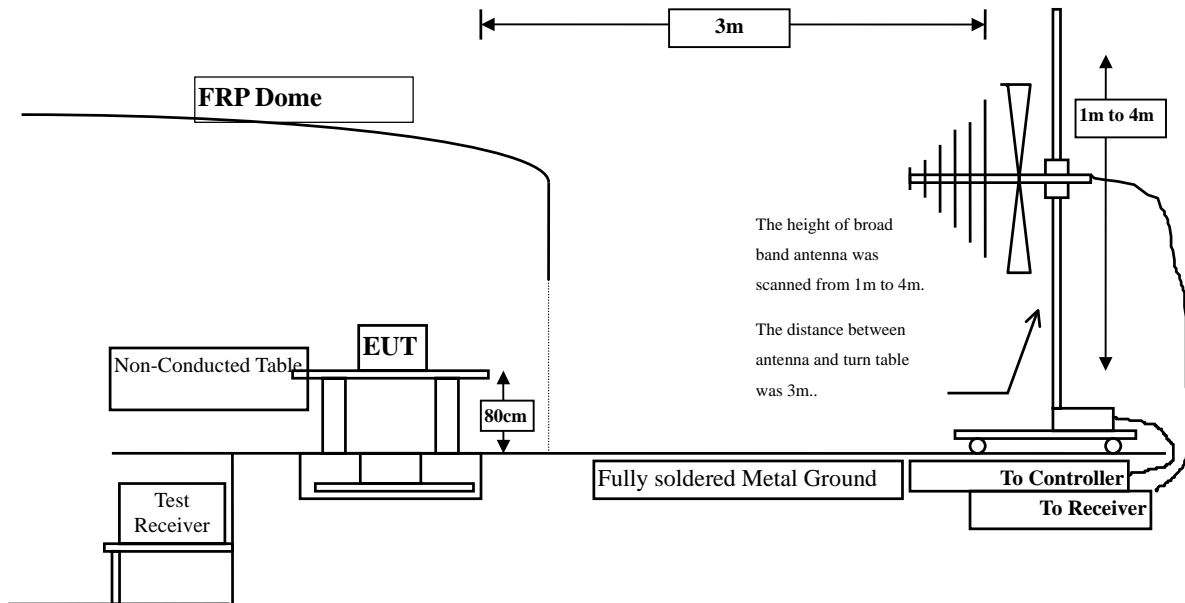
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2008
	X	Pre-Amplifier	AGILENT	8447D/2944A09549	Sep., 2008
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2008
	X	Spectrum Analyzer	Advantest	R3162/91700283	Oct., 2008
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2008
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

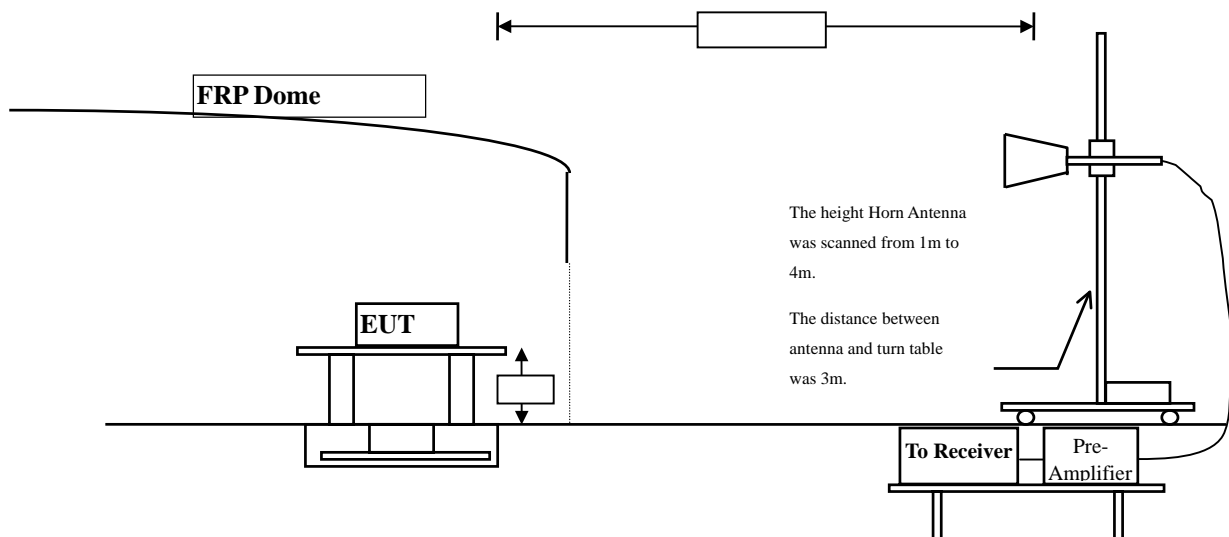
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with “X” are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: 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 Mar. 2005 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 between 1 meter and 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.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB beamwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

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

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.723	53.970	57.693	-16.307	74.000
7236.000	9.439	35.490	44.929	-29.071	74.000
9648.000	11.829	36.260	48.089	-25.911	74.000
Average Detector:					
4824.000	3.723	40.720	44.443	-9.557	54.000
Vertical					
Peak Detector:					
4824.000	3.723	46.980	50.703	-23.297	74.000
7236.000	9.439	36.920	46.359	-27.641	74.000
9648.000	11.829	34.980	46.809	-27.191	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	50.830	54.722	-19.278	74.000
7311.000	9.624	35.410	45.034	-28.966	74.000
9748.000	11.805	35.844	47.650	-26.350	74.000
Average Detector:					
4874.000	3.893	41.170	45.062	-8.938	54.000
Vertical					
Peak Detector:					
4874.000	3.893	55.140	59.032	-14.968	74.000
7311.000	9.624	34.790	44.414	-29.586	74.000
9748.000	11.805	36.330	48.136	-25.864	74.000
Average Detector:					
4874.000	3.893	41.750	45.642	-8.358	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	4.075	48.100	52.175	-21.825	74.000
7386.000	9.812	37.960	47.772	-26.228	74.000
9848.000	11.819	35.450	47.269	-26.731	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	4.075	53.560	57.635	-16.365	74.000
7386.000	9.812	38.280	48.092	-25.908	74.000
9848.000	11.819	37.190	49.009	-24.991	74.000
Average Detector:					
4924.000	4.075	39.950	44.025	-9.975	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.723	49.470	53.193	-20.807	74.000
7236.000	9.439	34.950	44.389	-29.611	74.000
9648.000	11.829	35.941	47.770	-26.230	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	3.723	44.120	47.843	-26.157	74.000
7236.000	9.439	36.420	45.859	-28.141	74.000
9648.000	11.829	35.040	46.869	-27.131	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	47.800	51.692	-22.308	74.000
7311.000	9.624	34.470	44.094	-29.906	74.000
9748.000	11.805	35.420	47.226	-26.774	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.893	50.390	54.282	-19.718	74.000
7311.000	9.624	39.470	49.094	-24.906	74.000
9748.000	11.805	35.180	46.986	-27.014	74.000
Average Detector:					
4874.000	3.893	36.330	40.222	-13.778	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	4.075	50.060	54.135	-19.865	74.000
7386.000	9.812	37.160	46.972	-27.028	74.000
9848.000	11.819	35.730	47.549	-26.451	74.000
Average Detector:					
4924.000	4.075	34.250	38.325	-15.675	54.000
Vertical					
Peak Detector:					
4924.000	4.075	46.690	50.765	-23.235	74.000
7386.000	9.812	36.460	46.272	-27.728	74.000
9848.000	11.819	36.880	48.699	-25.301	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.723	50.610	54.333	-19.667	74.000
7236.000	9.439	35.730	45.169	-28.831	74.000
9648.000	11.829	35.730	47.559	-26.441	74.000
Average					
Detector:					
4824.000	3.723	38.180	41.903	-12.097	54.000
Vertical					
Peak Detector:					
4824.000	3.723	51.720	55.443	-18.557	74.000
7236.000	9.439	35.460	44.899	-29.101	74.000
9648.000	11.829	36.630	48.459	-25.541	74.000
Average					
Detector:					
4824.000	3.723	38.360	42.083	-11.917	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	48.470	52.362	-21.638	74.000
7311.000	9.624	34.540	44.164	-29.836	74.000
9748.000	11.805	35.640	47.446	-26.554	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.893	47.990	51.882	-22.118	74.000
7311.000	9.624	36.040	45.664	-28.336	74.000
9748.000	11.805	35.480	47.286	-26.714	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	4.075	48.340	52.415	-21.585	74.000
7386.000	9.812	35.200	45.012	-28.988	74.000
9848.000	11.819	35.200	47.019	-26.981	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	4.075	45.870	49.945	-24.055	74.000
7386.000	9.812	36.340	46.152	-27.848	74.000
9848.000	11.819	35.010	46.829	-27.171	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2422MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4844.000	3.788	47.850	51.638	-22.362	74.000
7266.000	9.517	35.020	44.537	-29.463	74.000
9688.000	11.818	35.260	47.078	-26.922	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4844.000	3.788	50.810	54.598	-19.402	74.000
7266.000	9.517	35.070	44.587	-29.413	74.000
9688.000	11.818	36.590	48.408	-25.592	74.000
Average Detector:					
4844.000	3.788	35.810	39.598	-14.402	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.893	49.100	52.992	-21.008	74.000
7311.000	9.624	34.960	44.584	-29.416	74.000
9748.000	11.805	35.350	47.156	-26.844	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	3.893	49.540	53.432	-20.568	74.000
7311.000	9.624	36.800	46.424	-27.576	74.000
9748.000	11.805	36.800	48.606	-25.394	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2452 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4904.000	4.002	47.830	51.832	-22.168	74.000
7356.000	9.747	35.180	44.927	-29.073	74.000
9808.000	11.795	34.710	46.505	-27.495	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4904.000	4.002	47.080	51.082	-22.918	74.000
7356.000	9.747	32.850	42.597	-31.403	74.000
9808.000	11.795	34.710	46.505	-27.495	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
187.140	11.076	15.127	26.203	-17.297	43.500
315.180	15.947	13.205	29.152	-16.848	46.000
359.800	17.764	8.342	26.106	-19.894	46.000
449.040	21.075	3.554	24.628	-21.372	46.000
629.580	24.608	0.305	24.913	-21.087	46.000
829.280	26.424	1.724	28.148	-17.852	46.000
Vertical					
111.480	13.428	15.545	28.973	-14.527	43.500
187.500	11.141	15.209	26.350	-17.150	43.500
468.440	21.464	3.942	25.406	-20.594	46.000
625.360	24.772	0.651	25.423	-20.577	46.000
700.250	24.604	3.965	28.569	-17.431	46.000
847.230	26.126	2.604	28.730	-17.270	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
119.240	14.225	19.095	33.320	-10.180	43.500
352.360	17.362	15.268	32.630	-13.370	46.000
530.520	21.969	7.187	29.156	-16.844	46.000
668.360	24.469	1.851	26.320	-19.680	46.000
722.360	25.050	6.210	31.260	-14.740	46.000
825.360	26.381	1.984	28.365	-17.635	46.000
Vertical					
128.940	13.024	14.197	27.221	-16.279	43.500
313.250	16.237	12.088	28.325	-17.675	46.000
436.310	21.930	6.435	28.364	-17.636	46.000
569.580	24.627	4.721	29.348	-16.652	46.000
790.480	26.514	2.275	28.789	-17.211	46.000
932.250	28.970	1.980	30.950	-15.050	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
119.240	14.225	16.820	31.045	-12.455	43.500
431.580	20.600	8.880	29.480	-16.520	46.000
558.560	23.046	5.914	28.960	-17.040	46.000
800.265	26.198	0.771	26.968	-19.032	46.000
827.340	26.402	1.558	27.960	-18.040	46.000
949.580	27.756	0.609	28.365	-17.635	46.000
Vertical					
187.250	11.178	16.790	27.968	-15.532	43.500
313.250	16.237	12.398	28.635	-17.365	46.000
523.650	22.122	6.843	28.965	-17.035	46.000
632.580	24.455	4.235	28.690	-17.310	46.000
832.480	25.926	1.654	27.580	-18.420	46.000
961.250	27.964	0.381	28.345	-25.655	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1(2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
119.240	14.225	14.191	28.416	-15.084	43.500
315.180	15.947	13.418	29.365	-16.635	46.000
530.520	21.969	11.291	33.260	-12.740	46.000
633.256	24.546	4.104	28.650	-17.350	46.000
758.360	25.885	2.715	28.600	-17.400	46.000
889.365	27.096	2.653	29.750	-16.250	46.000
Vertical					
111.480	13.428	14.937	28.365	-15.135	43.500
313.350	16.240	12.125	28.365	-17.635	46.000
530.520	22.328	11.257	33.585	-12.415	46.000
625.360	24.772	3.678	28.450	-17.550	46.000
771.250	26.848	1.802	28.650	-17.350	46.000
962.360	27.981	0.475	28.456	-25.544	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

5. RF antenna conducted test

5.1. Test Equipment

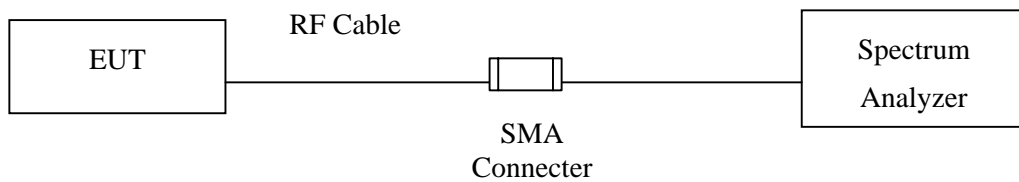
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	R&S	FSP40 / 100170	Nov, 2007
	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2008
	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2008

- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with “X” are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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

5.5. Uncertainty

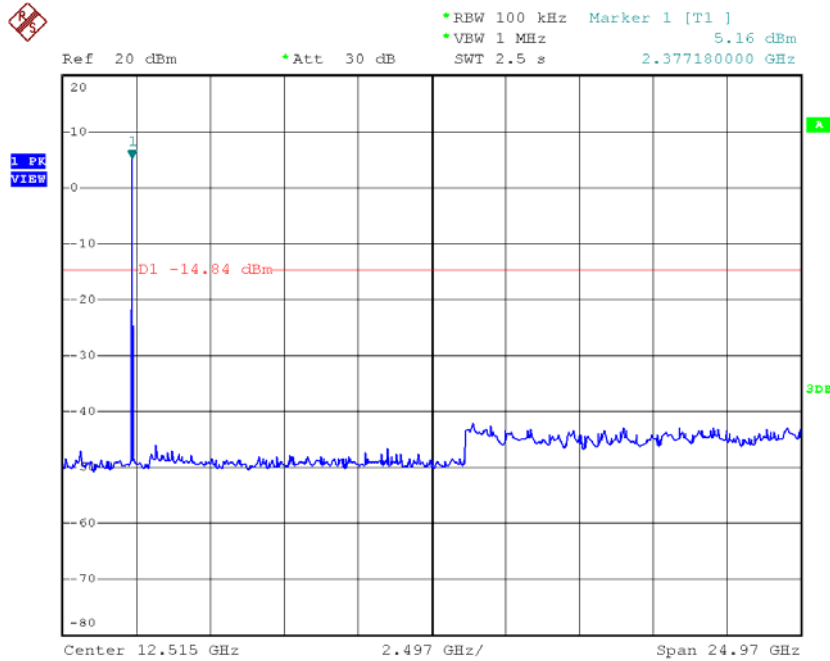
The measurement uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

5.6. Test Result of RF antenna conducted test

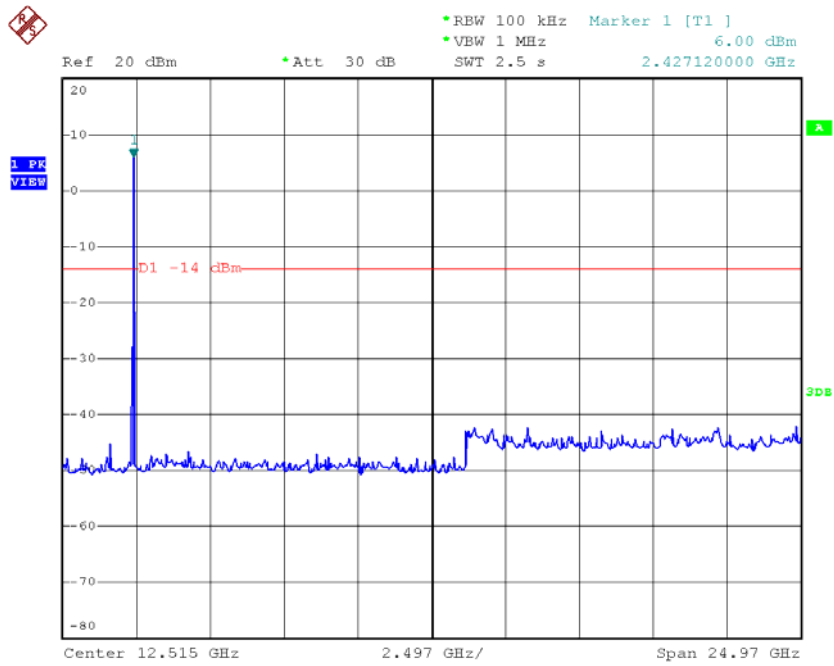
Product : Eee PC
Test Item : RF antenna conducted test
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

Channel 01 (2412MHz) 30-25GHz



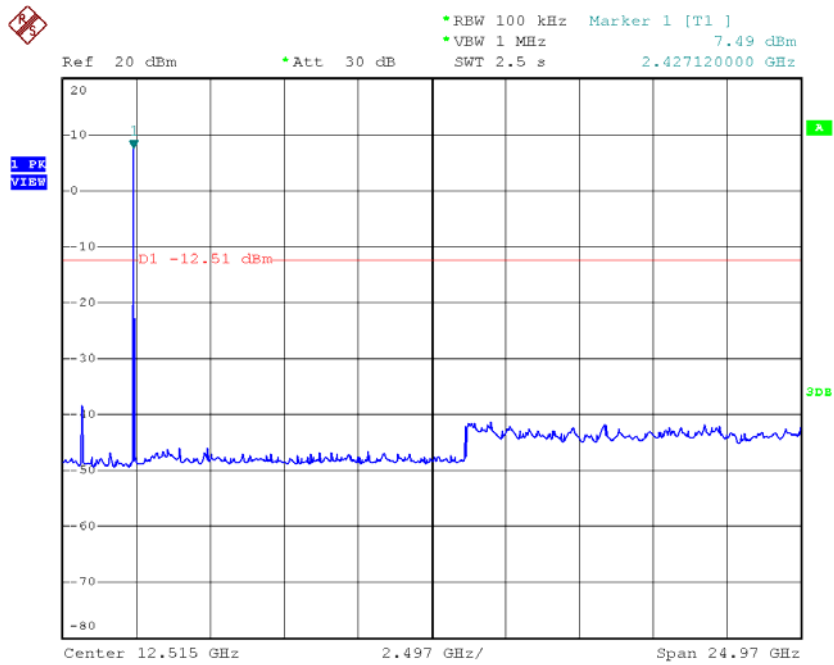
Date: 8.OCT.2008 18:49:30

Channel 06 (2437MHz) 30-25GHz



Date: 8.OCT.2008 19:06:13

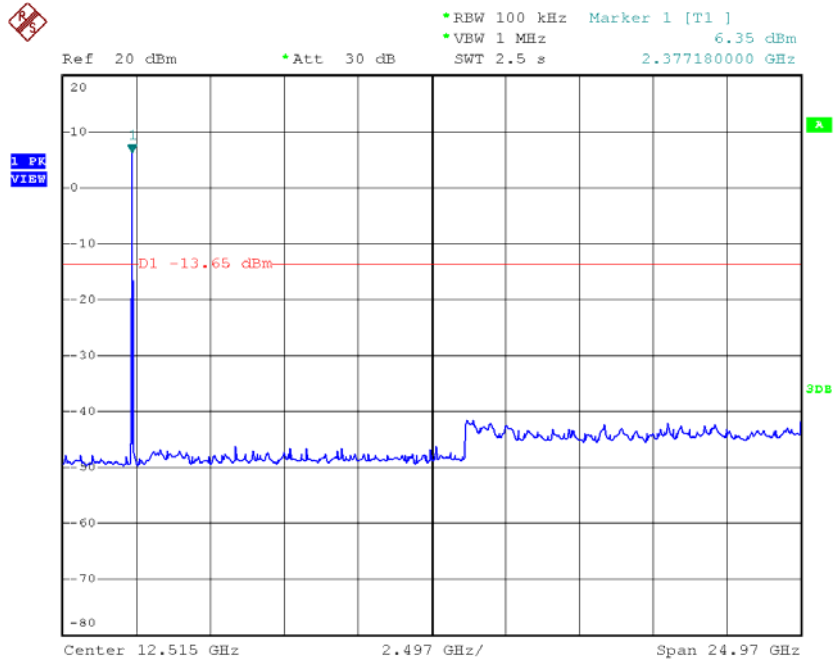
Channel 11 (2462MHz) 30-25GHz



Date: 8.OCT.2008 19:08:55

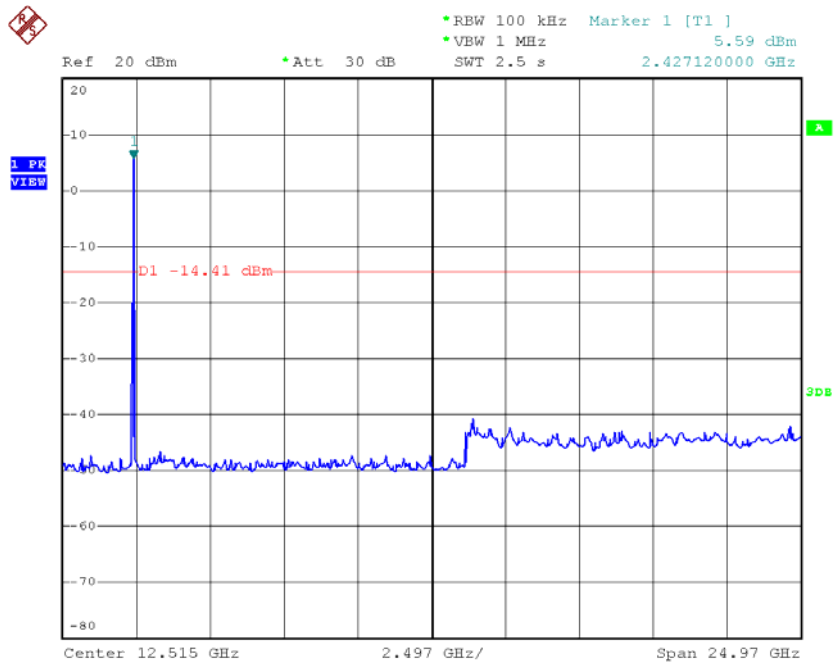
Product : Eee PC
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

Channel 01 (2412MHz) 30-25GHz



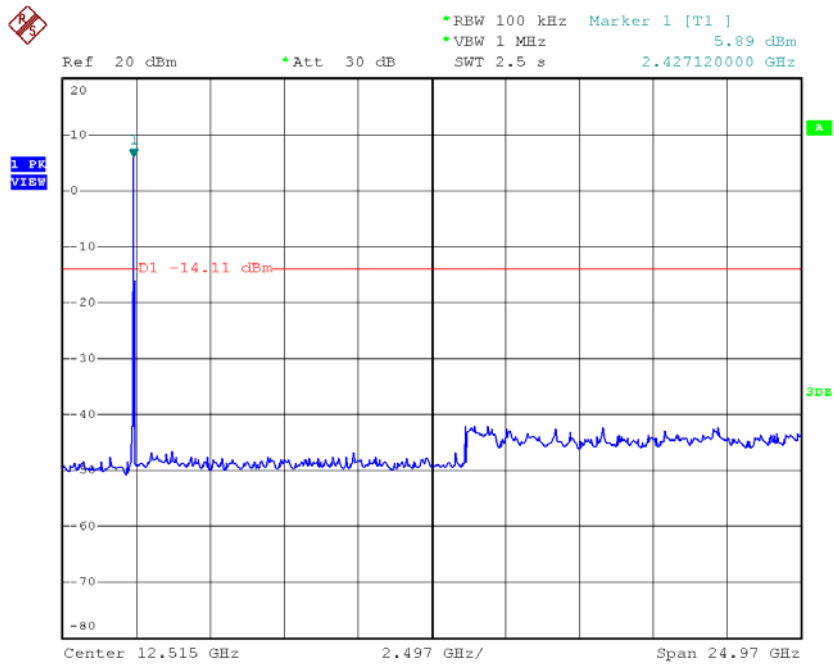
Date: 8.OCT.2008 18:46:05

Channel 06 (2437MHz) 30-25GHz



Date: 8.OCT.2008 18:47:04

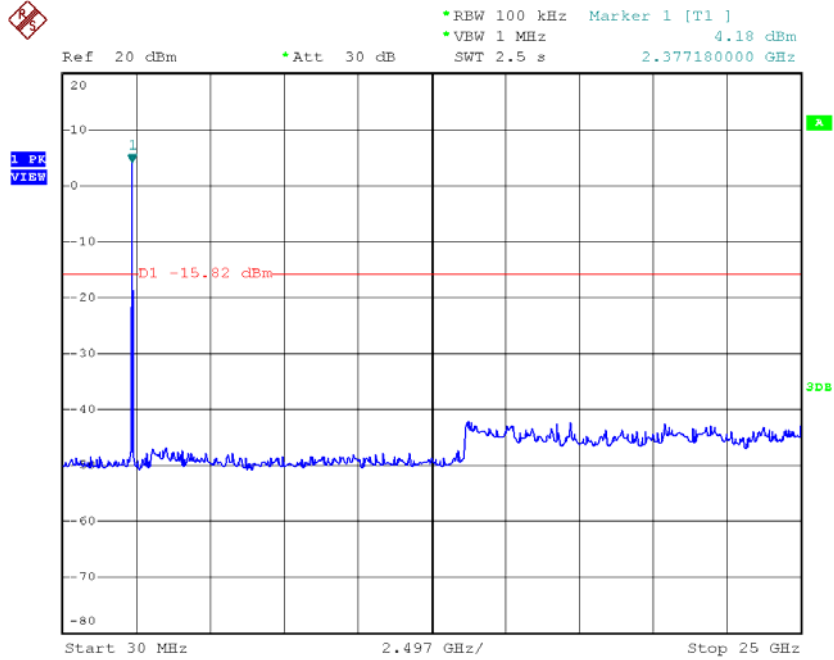
Channel 11 (2462MHz) 30-25GHz



Date: 8.OCT.2008 18:48:09

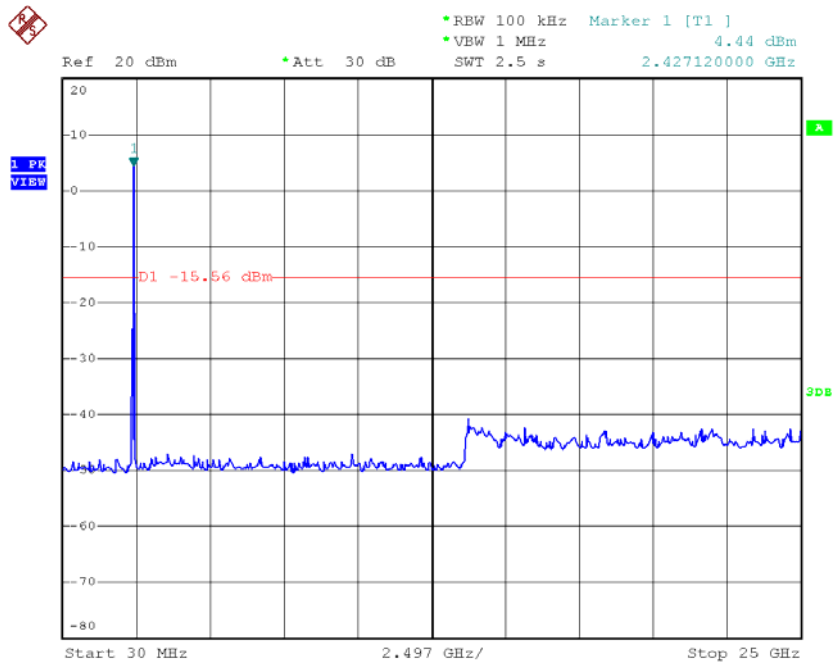
Product : Eee PC
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

Channel 01 (2412MHz) 30-25GHz



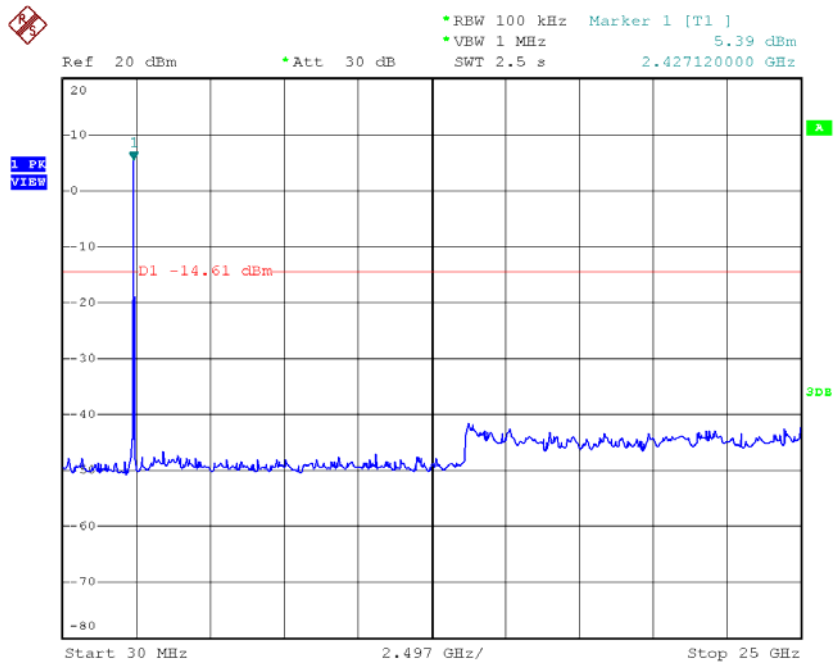
Date: 8.OCT.2008 18:42:02

Channel 06 (2437MHz) 30-25GHz



Date: 8.OCT.2008 18:42:51

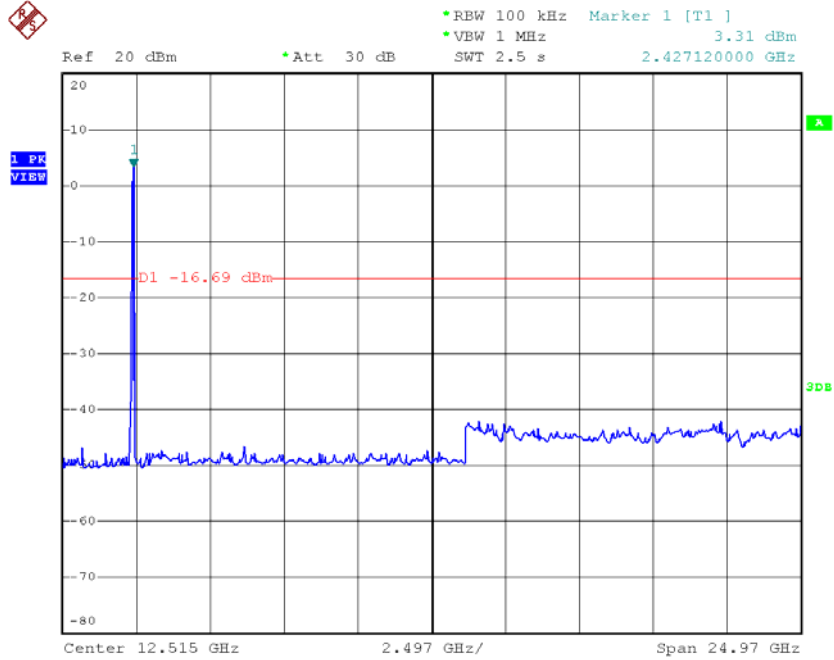
Channel 11 (2462MHz) 30-25GHz



Date: 8.OCT.2008 18:43:53

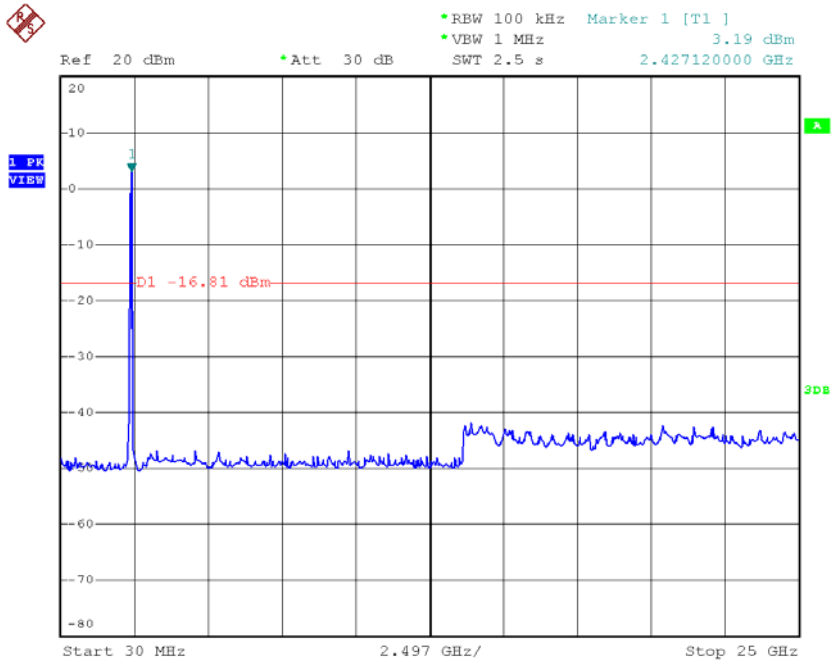
Product : Eee PC
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

Channel 01 (2422MHz) 30-25GHz



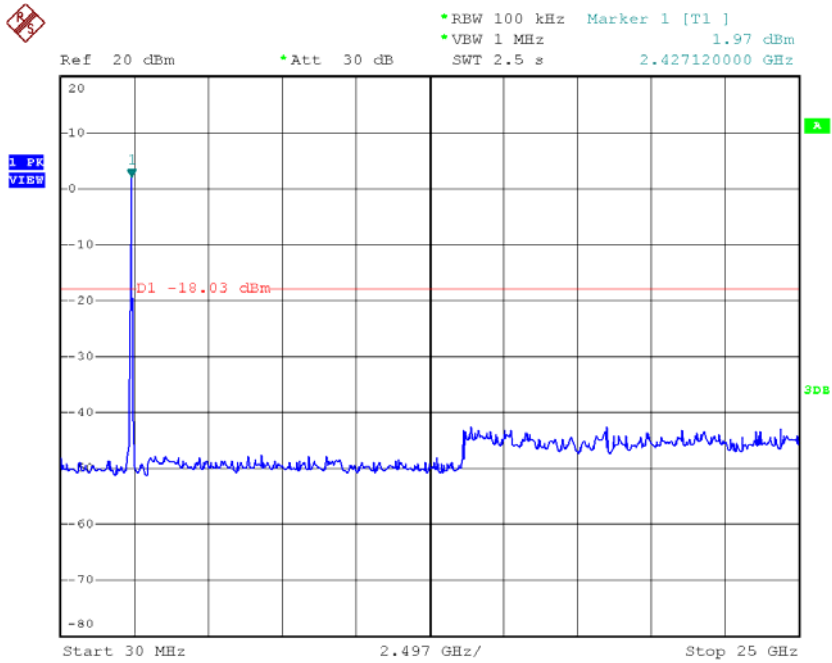
Date: 8.OCT.2008 18:29:52

Channel 04 (2437MHz) 30-25GHz



Date: 8.OCT.2008 18:38:33

Channel 07 (2452MHz) 30-25GHz



Date: 8.OCT.2008 18:39:46

6. Band Edge

6.1. Test Equipment

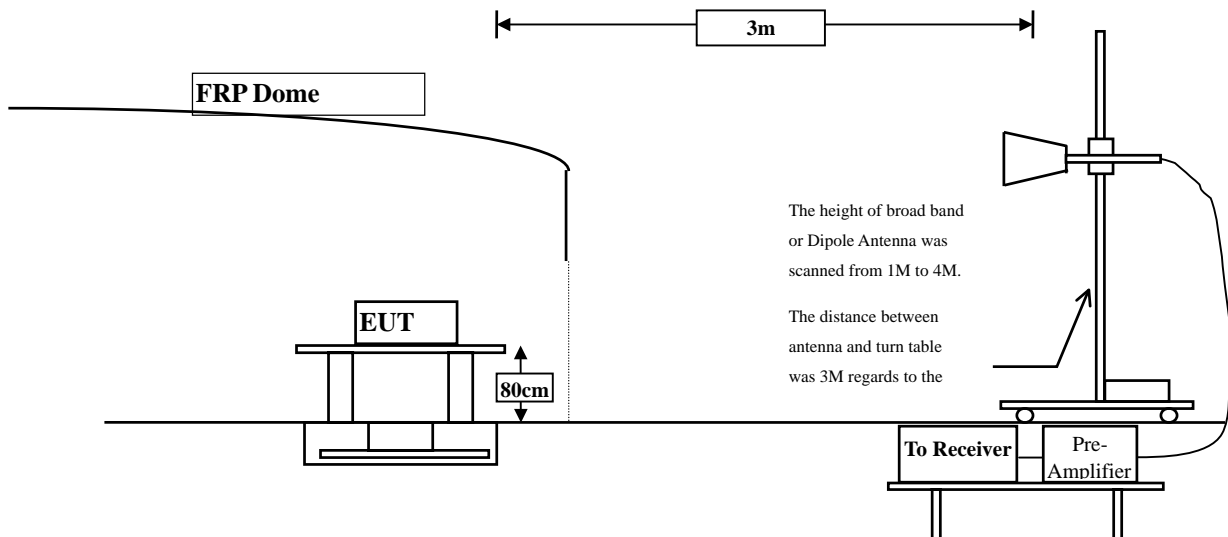
The following test equipments are used during the band edge tests:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2008
	X Pre-Amplifier	AGILENT	8447D/2944A09549	Sep., 2008
	X Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2008
	X Spectrum Analyzer	Advantest	R3162/91700283	Oct., 2008
	X Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2008
	X Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Mar. 2005 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

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

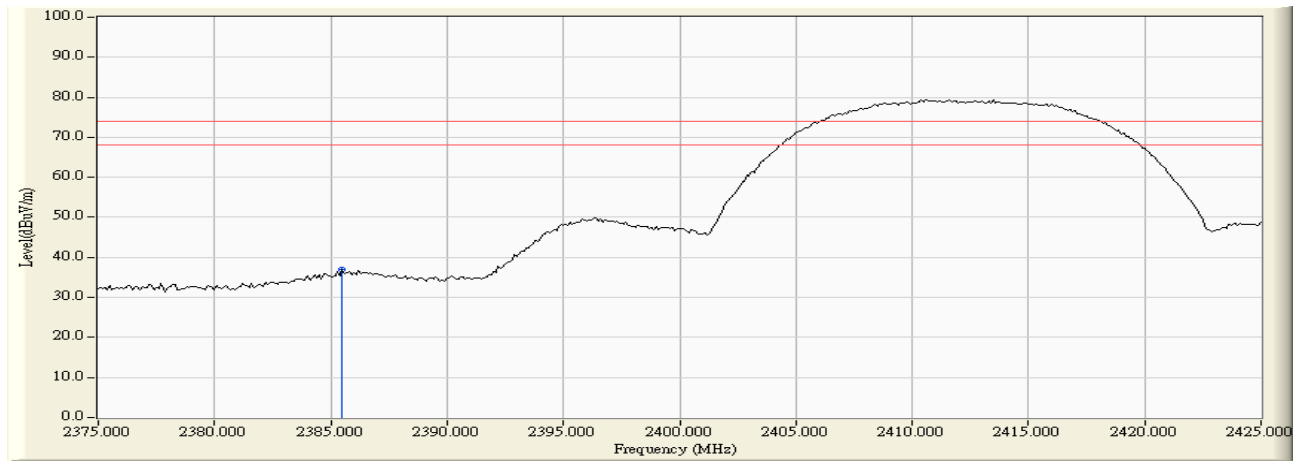
6.6. Test Result of Band Edge

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2385.500	-2.142	39.104	36.962	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: Horizontal (Peak)



Note:

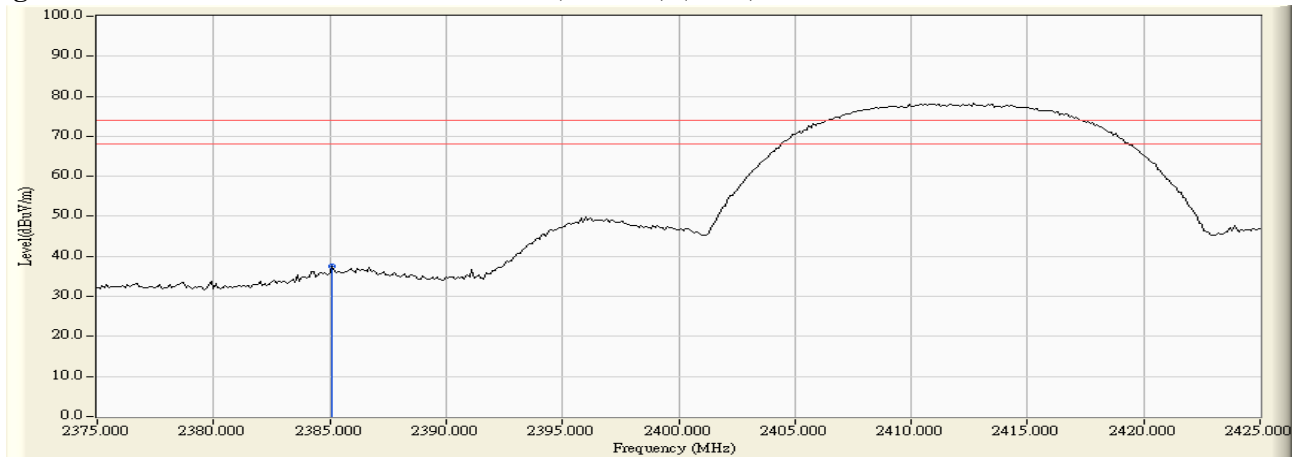
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2385.100	-2.144	39.648	37.504	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: (Vertical) (Peak)



Note:

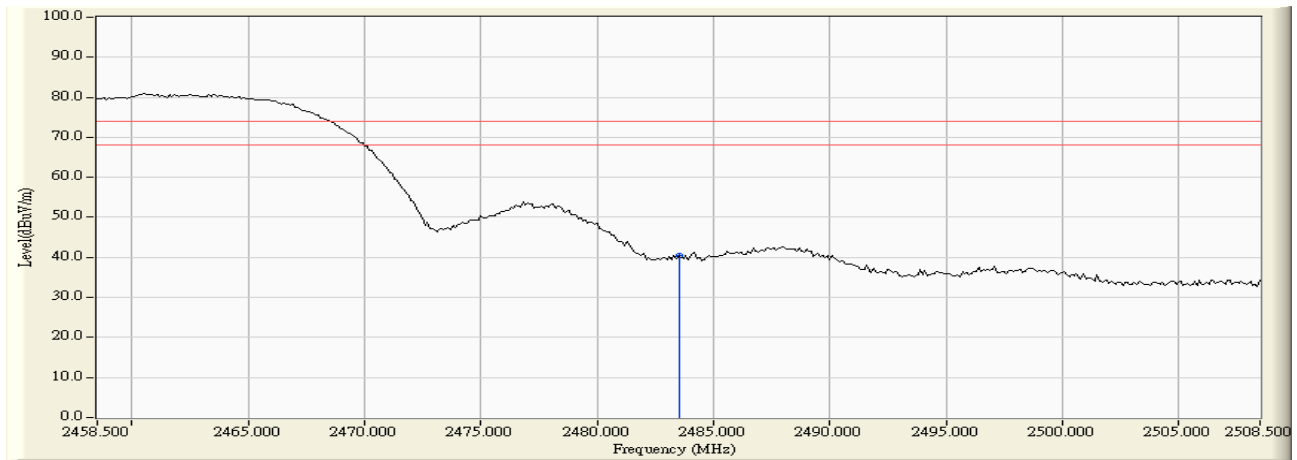
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	-1.707	42.073	40.366	74.00	54.00	Pass
11(Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)



Note:

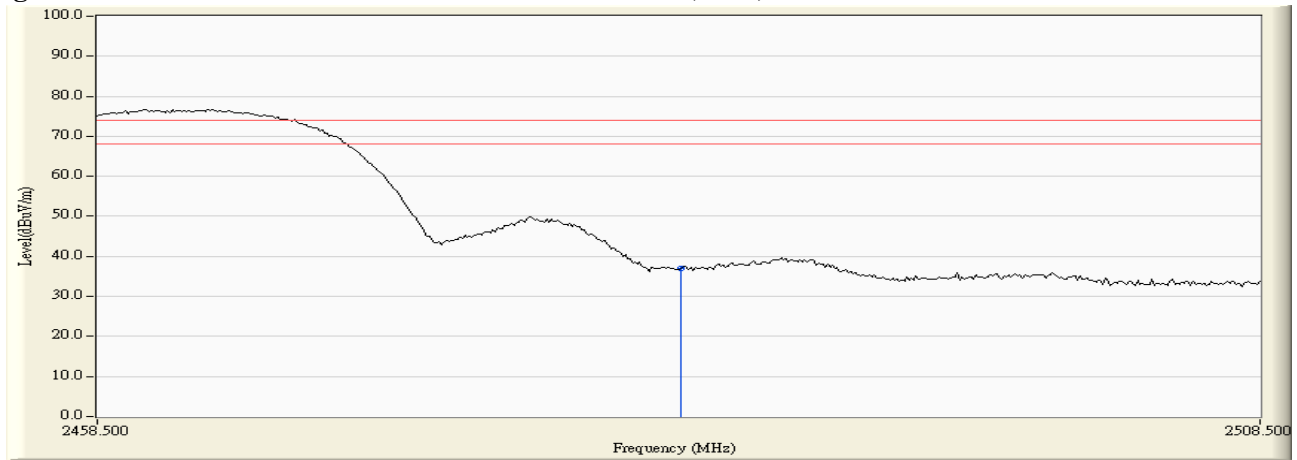
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	-1.707	38.692	36.985	74.00	54.00	Pass
11(Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)



Note:

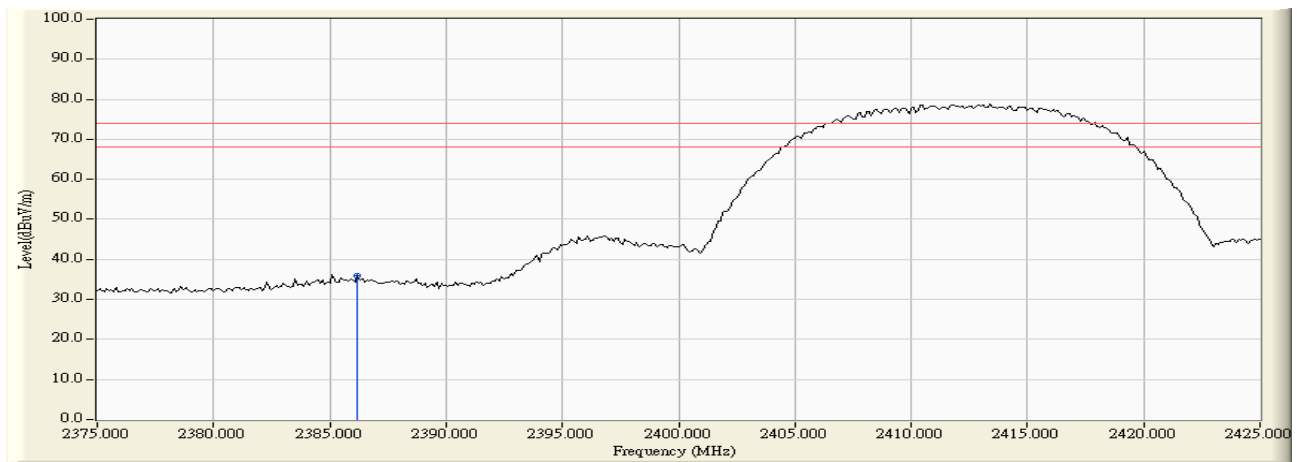
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2386.200	-2.137	38.035	35.897	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: Horizontal (Peak)



Note:

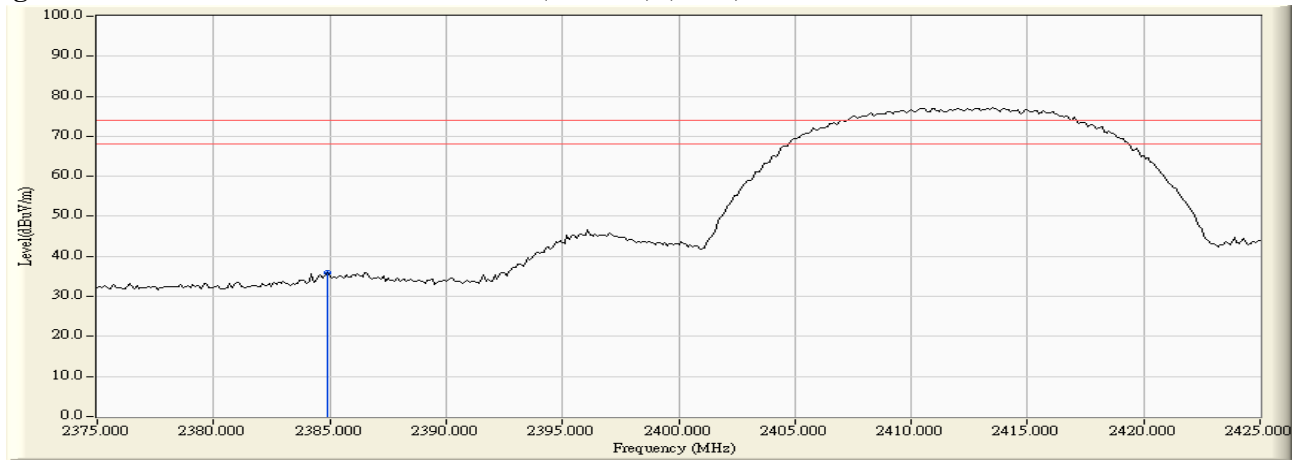
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2384.900	-2.145	38.171	36.026	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: (Vertical) (Peak)



Note:

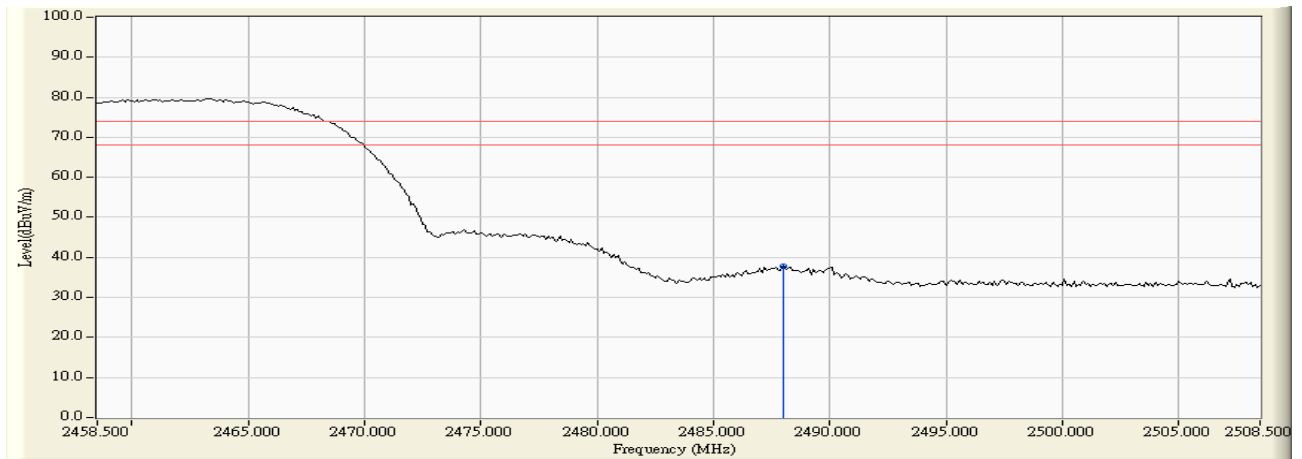
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2488.000	-1.694	39.517	37.822	74.00	54.00	Pass
11 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)



Note:

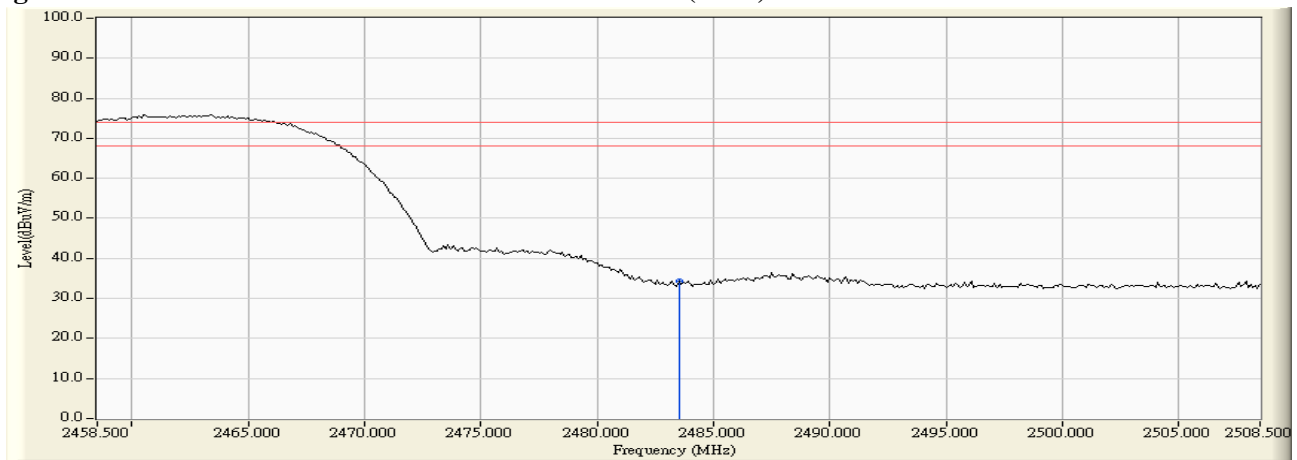
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	-1.707	35.894	34.187	74.00	54.00	Pass
11(Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)



Note:

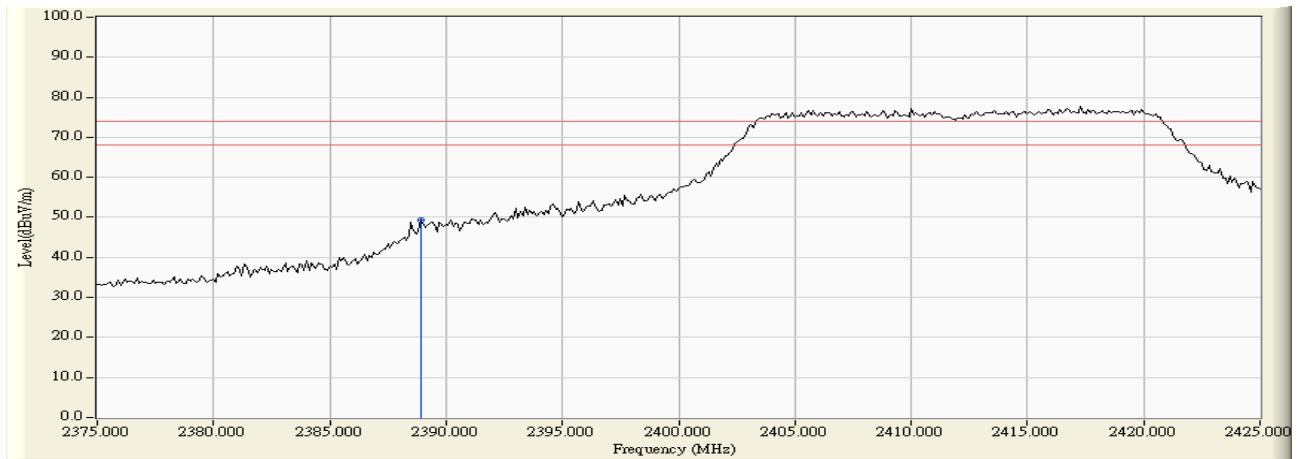
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2388.900	-2.124	51.342	49.218	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: Horizontal (Peak)



Note:

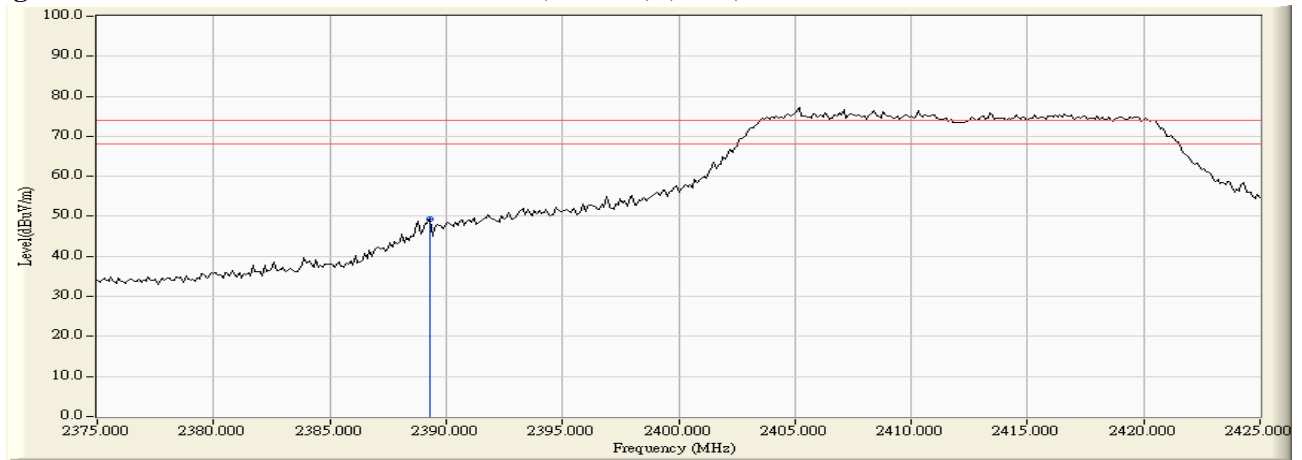
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.300	-2.123	51.495	49.373	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: (Vertical) (Peak)



Note:

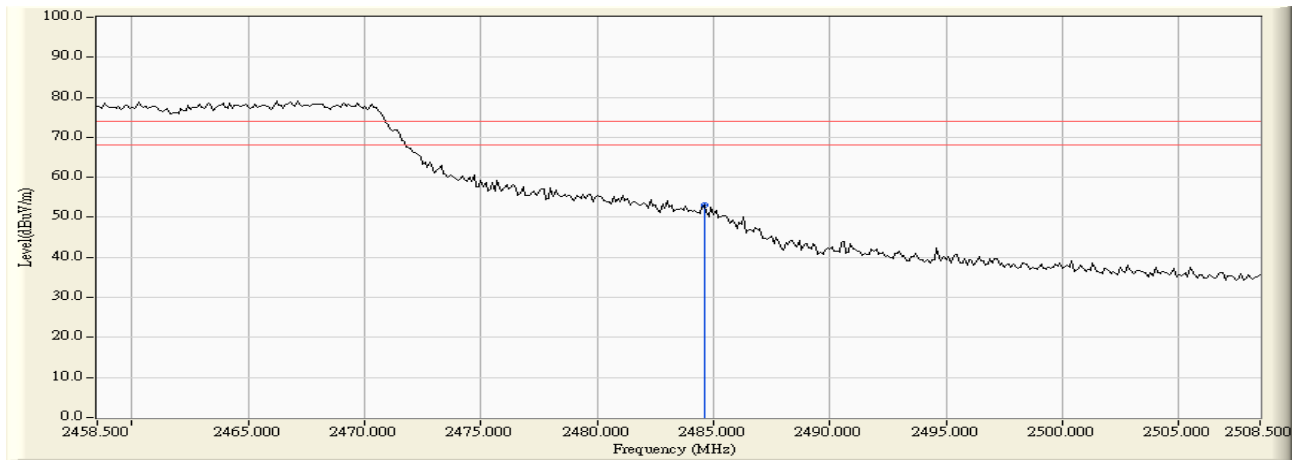
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2484.600	-1.704	54.814	53.110	74.00	54.00	Pass
11 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)



Note:

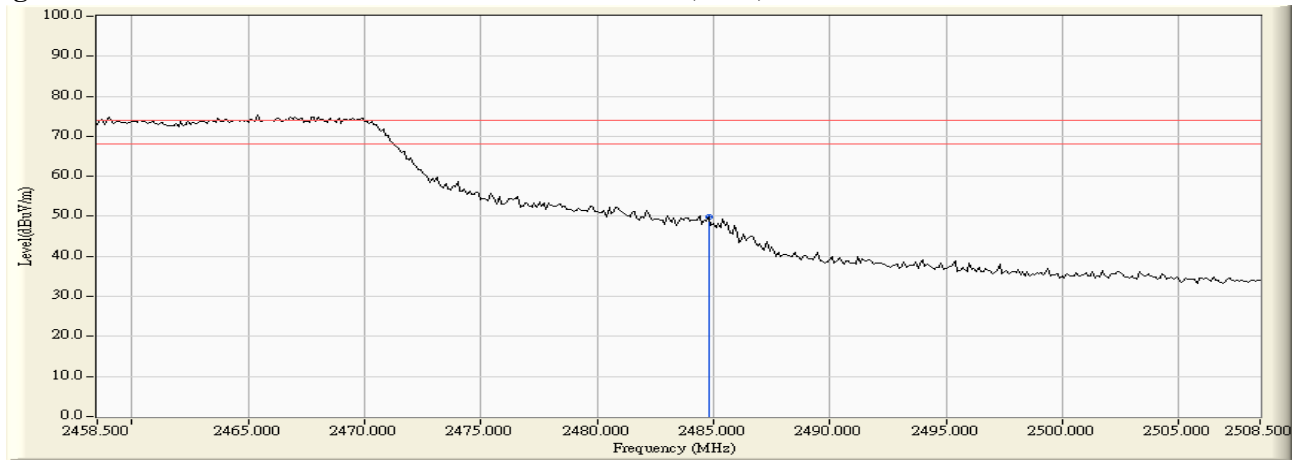
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2484.800	-1.704	51.496	49.793	74.00	54.00	Pass
11 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)



Note:

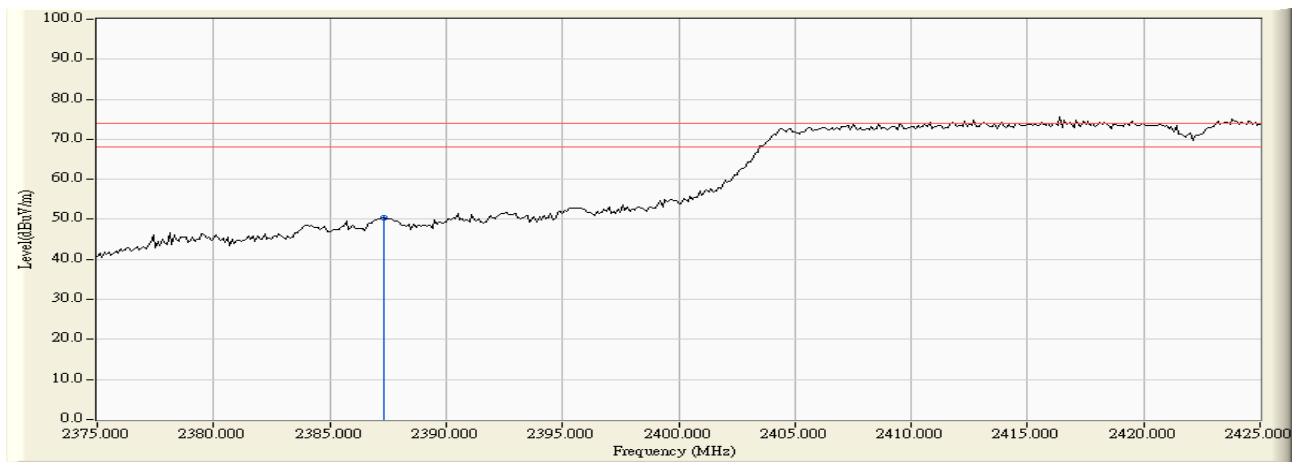
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2387.300	-2.133	52.517	50.384	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: Horizontal (Peak)



Note:

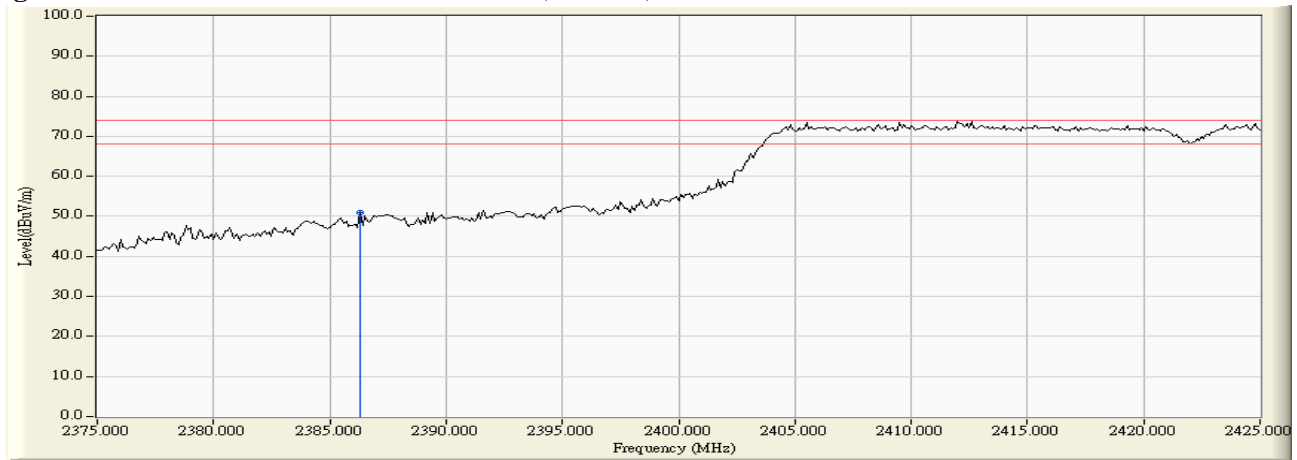
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2386.300	-2.137	52.964	50.826	74.00	54.00	Pass
01 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 01: (Vertical)



Note:

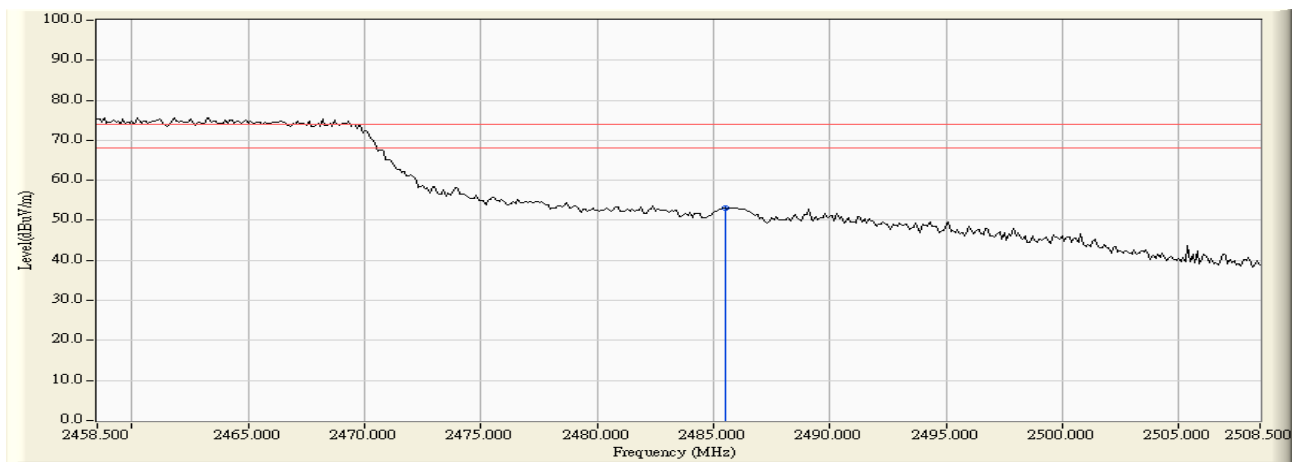
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “*”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
07 (Peak)	2485.500	-1.701	54.798	53.097	74.00	54.00	Pass
07 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 07: Horizontal (Peak)



Note:

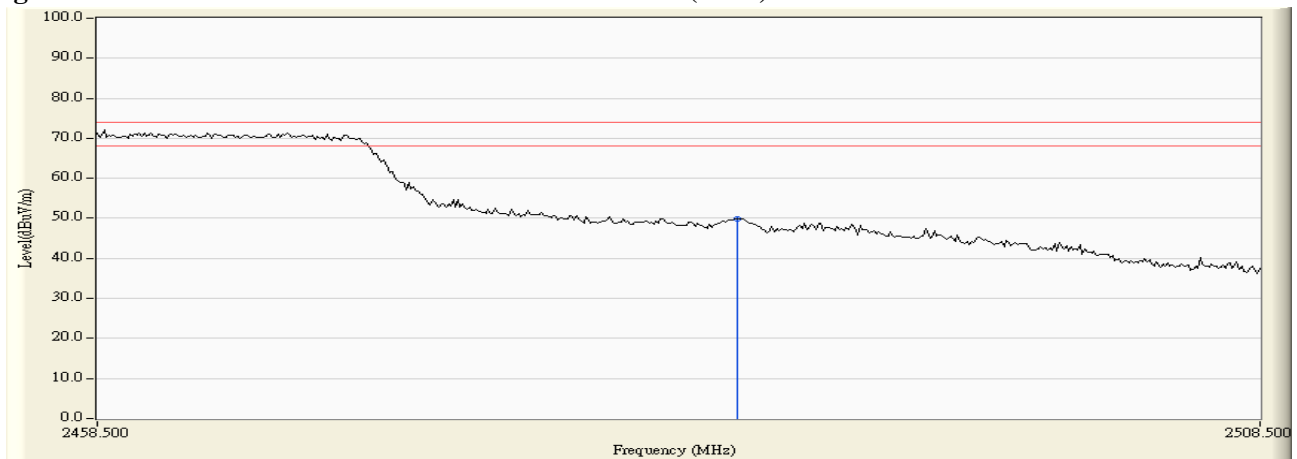
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Eee PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
07 (Peak)	2485.900	-1.700	51.453	49.753	74.00	54.00	Pass
07 (Average)	--	--	--	--	74.00	54.00	Pass

Figure Channel 07: Vertical (Peak)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

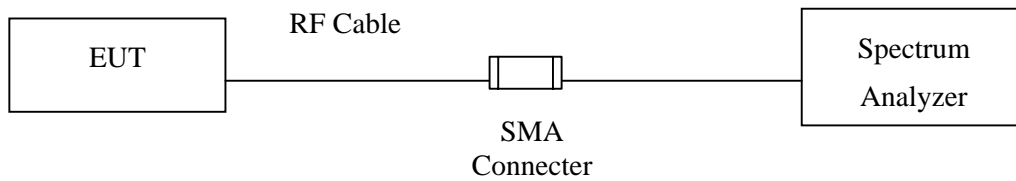
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	R&S	FSP40 / 100170	Nov, 2007

Note: 1. All instruments are calibrated every one year.
 2. The test instruments marked by “X” are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

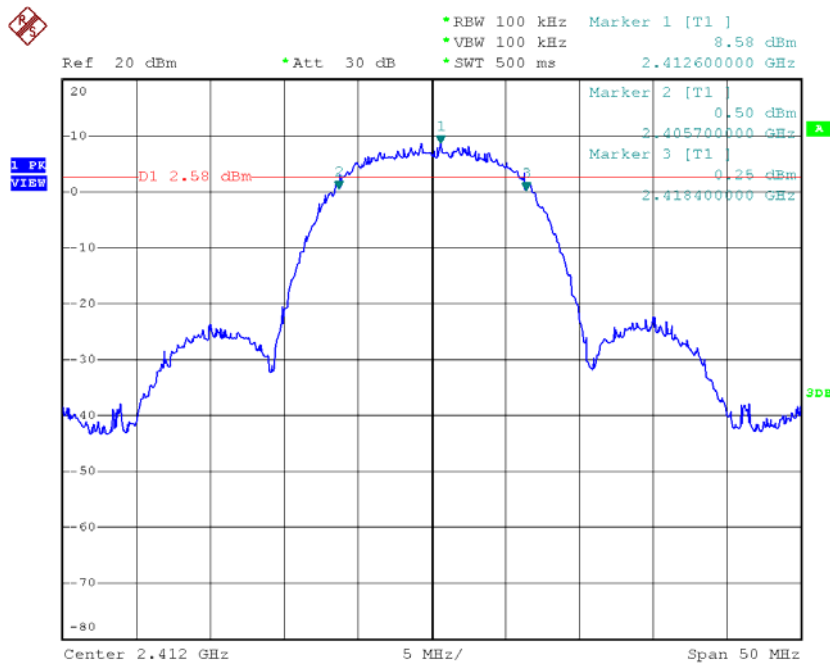
± 150Hz

7.6. Test Result of Occupied Bandwidth

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	12700	>500	Pass

Figure Channel 1:

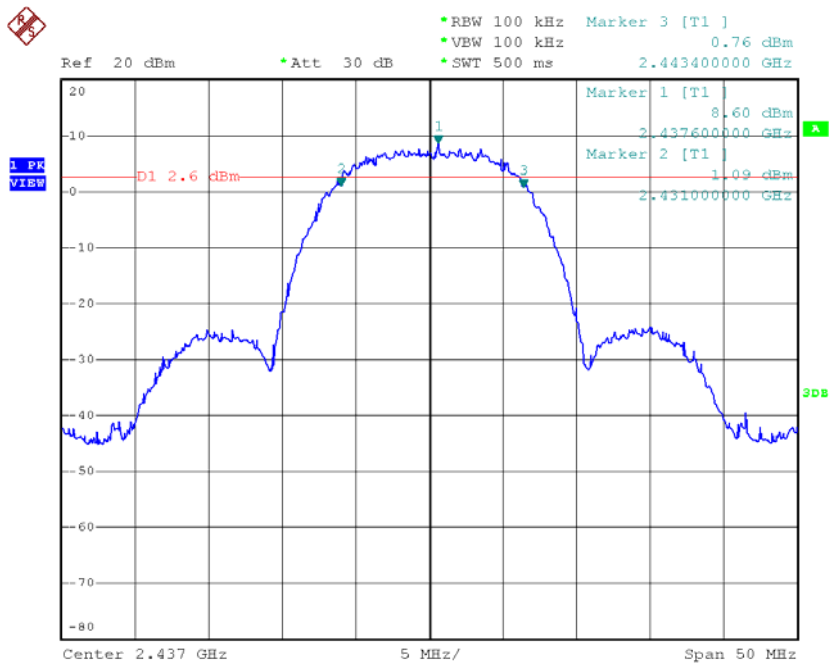


Date: 8.OCT.2008 17:02:56

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	12400	>500	Pass

Figure Channel 6:

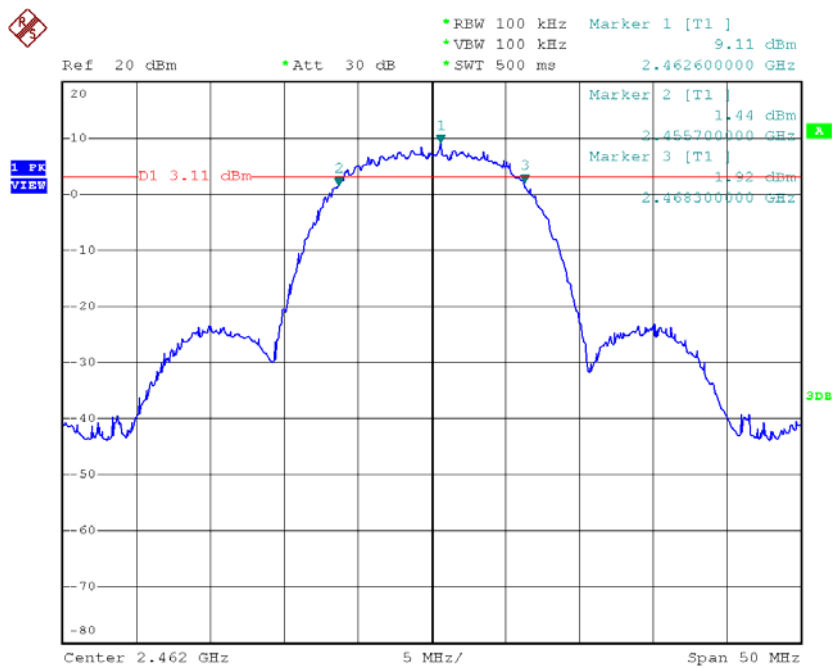


Date: 8.OCT.2008 17:04:12

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	12600	>500	Pass

Figure Channel 11:

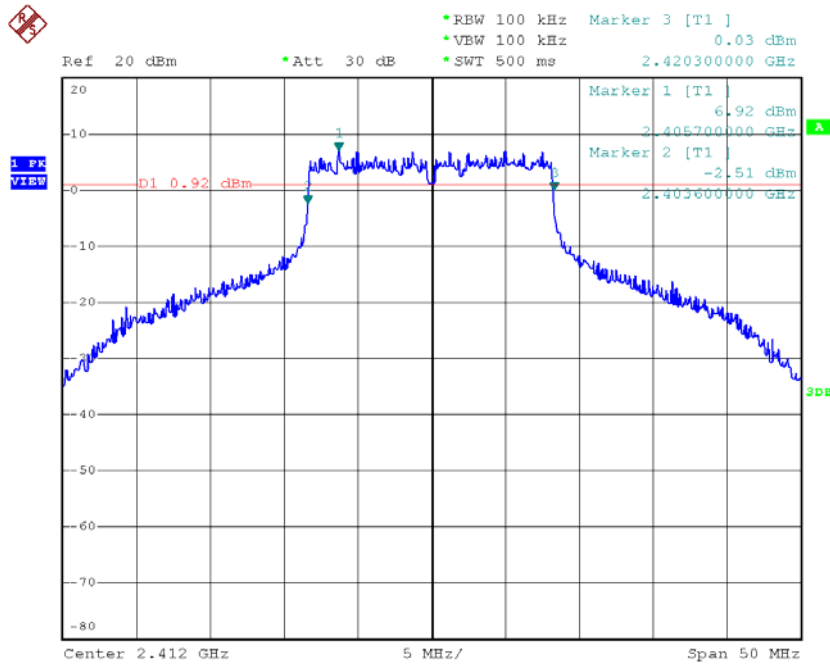


Date: 8.OCT.2008 17:06:24

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16700	>500	Pass

Figure Channel 1:

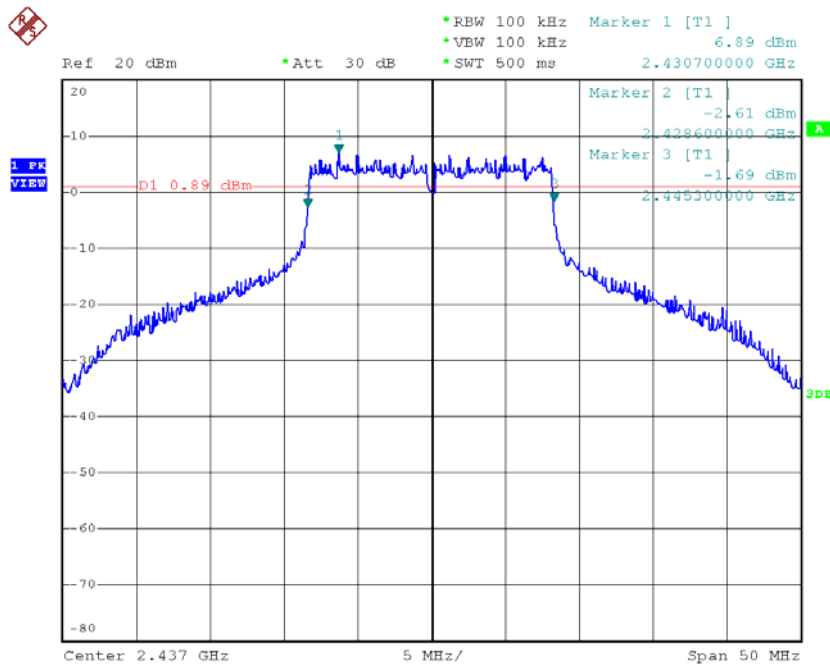


Date: 8.OCT.2008 17:09:37

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16700	>500	Pass

Figure Channel 6:

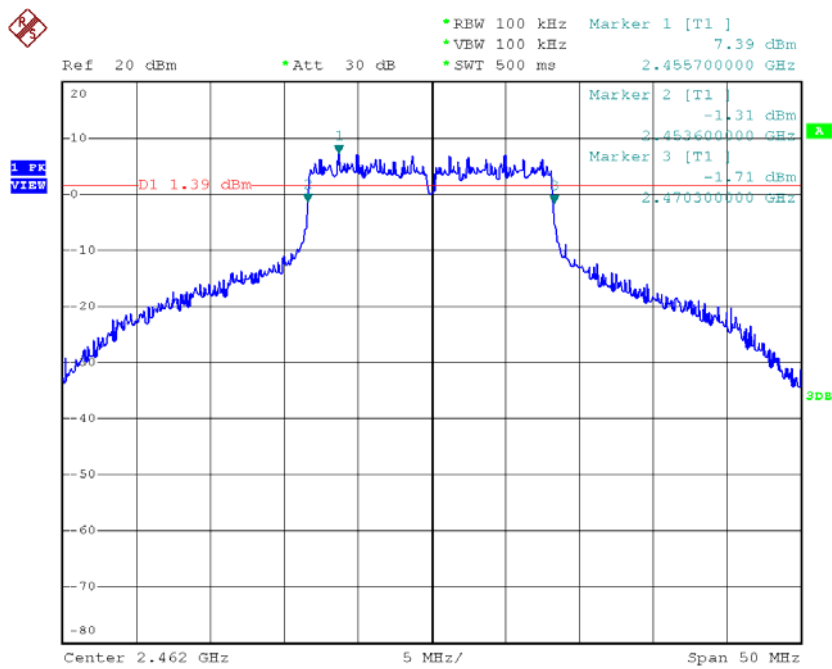


Date: 8.OCT.2008 17:10:58

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16700	>500	Pass

Figure Channel 11:

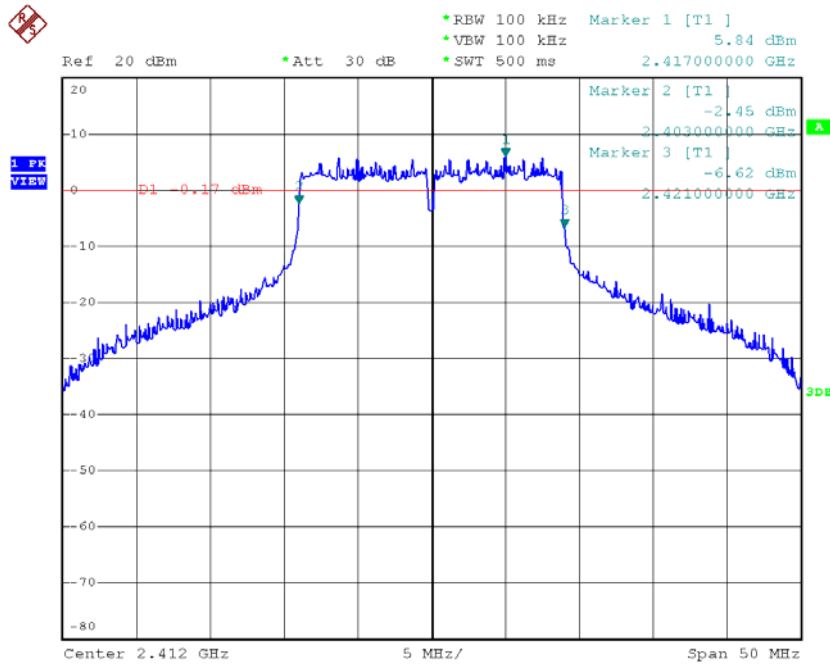


Date: 8.OCT.2008 17:12:05

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	18000	>500	Pass

Figure Channel 1:

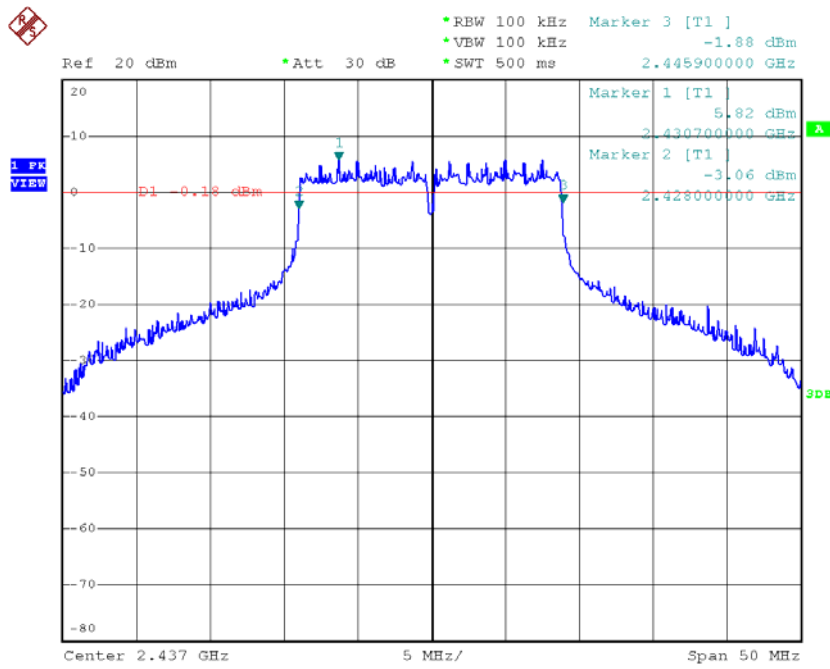


Date: 8.OCT.2008 17:14:07

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17900	>500	Pass

Figure Channel 6:

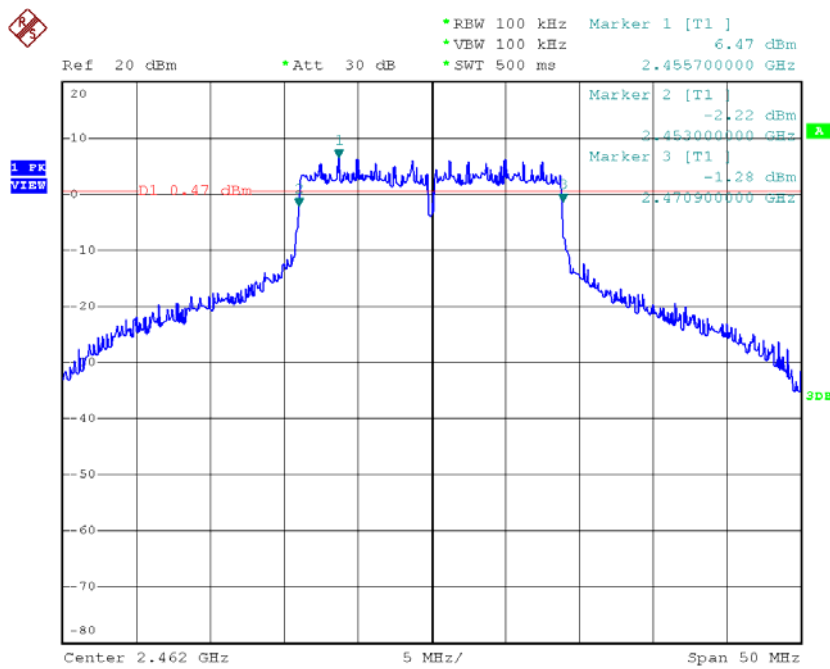


Date: 8.OCT.2008 17:15:31

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17900	>500	Pass

Figure Channel 11:

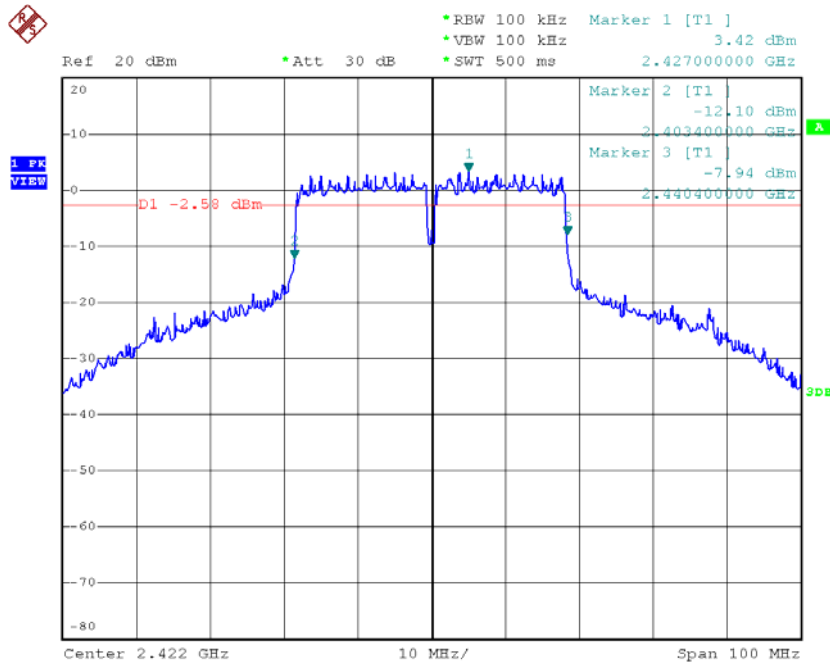


Date: 8.OCT.2008 17:16:49

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2422MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	37000	>500	Pass

Figure Channel 1:

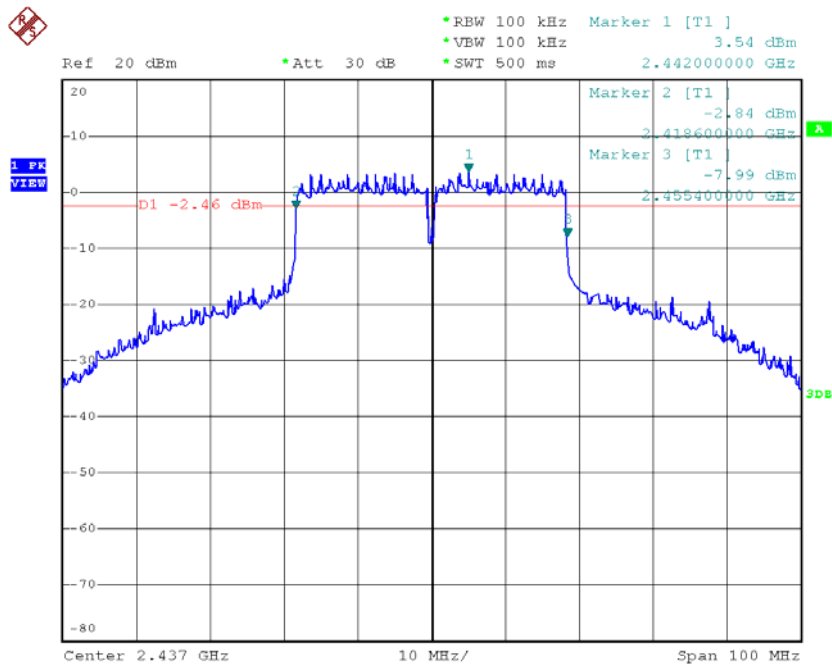


Date: 8.OCT.2008 17:18:44

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36800	>500	Pass

Figure Channel 4:

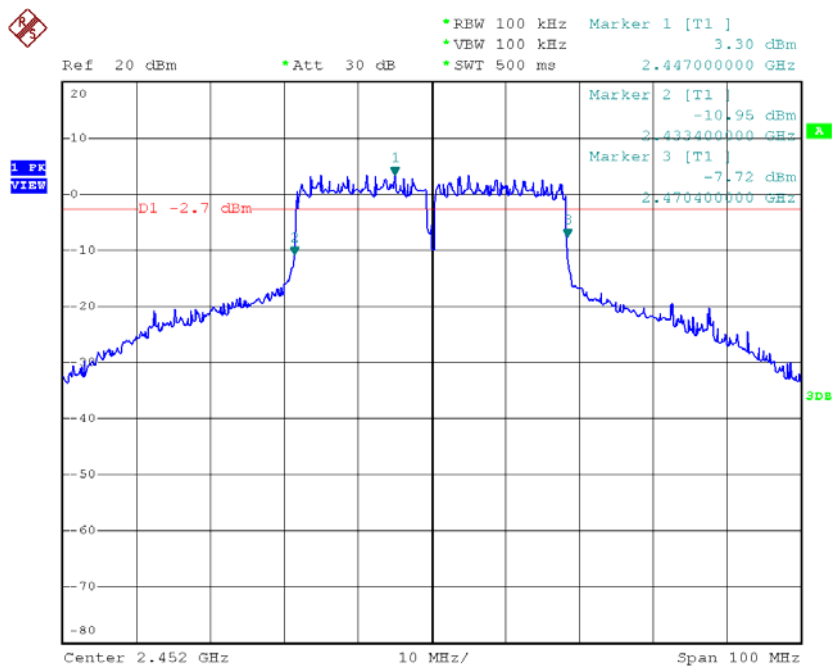


Date: 8.OCT.2008 17:19:58

Product : Eee PC
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2452MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	37000	>500	Pass

Figure Channel 7:



Date: 8.OCT.2008 17:21:02

8. Power Density

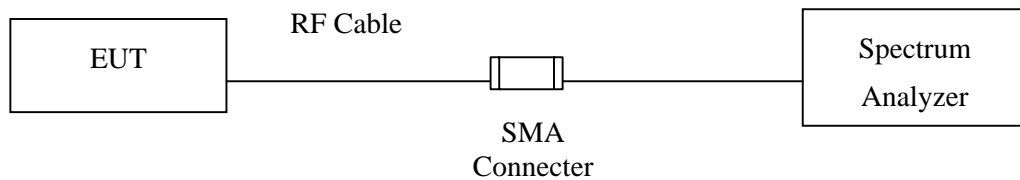
8.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	R&S	FSP40 / 100170	Nov, 2007

- Note:
1. All equipments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, VBW=10KHz, Sweep time=(SPAN/3KHz), detector=Peak detector

8.5. Uncertainty

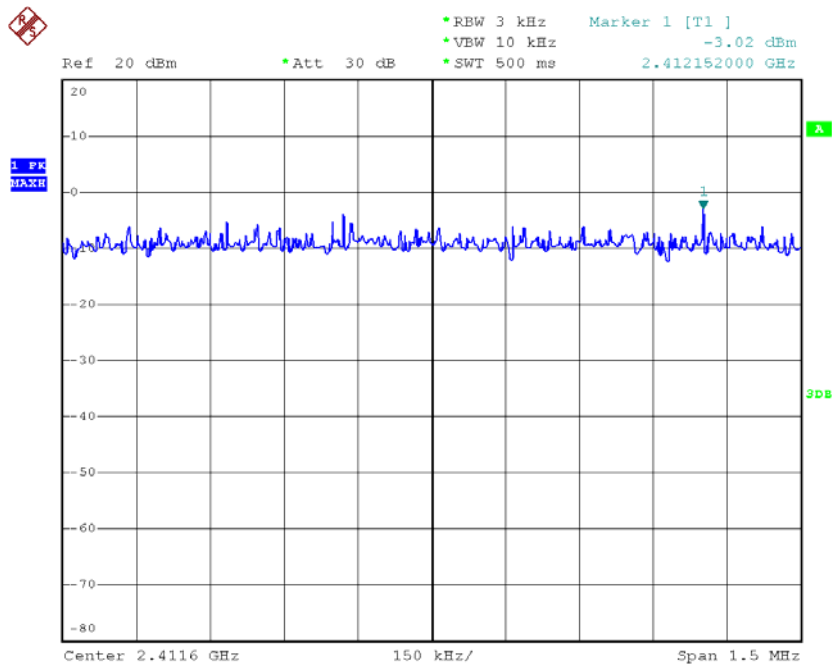
± 1.27 dB

8.6. Test Result of Power Density

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-3.02	< 8dBm	Pass

Figure Channel 1:

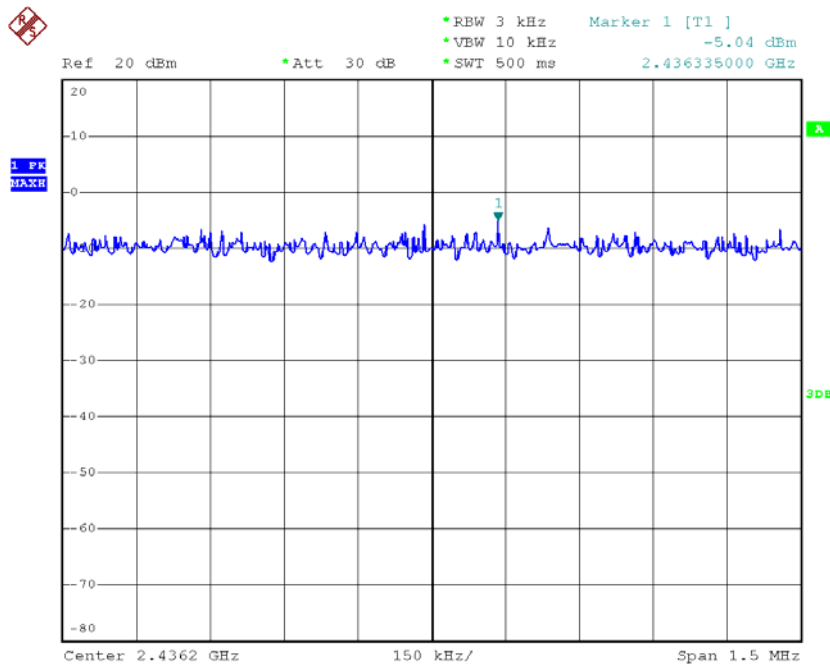


Date: 8.OCT.2008 17:33:48

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-5.04	< 8dBm	Pass

Figure Channel 6:

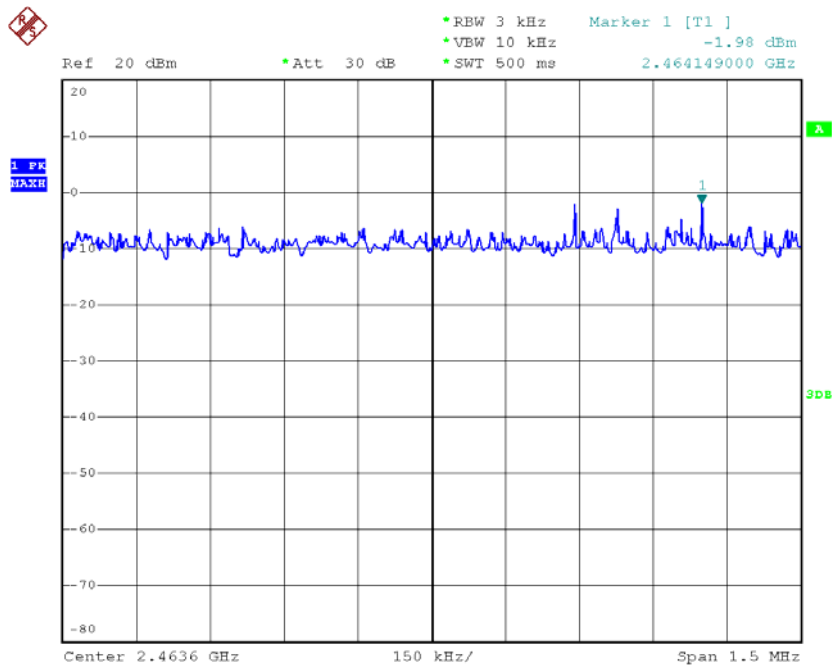


Date: 8.OCT.2008 17:34:45

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter (802.11b 11Mbps)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-1.98	< 8dBm	Pass

Figure Channel 11:

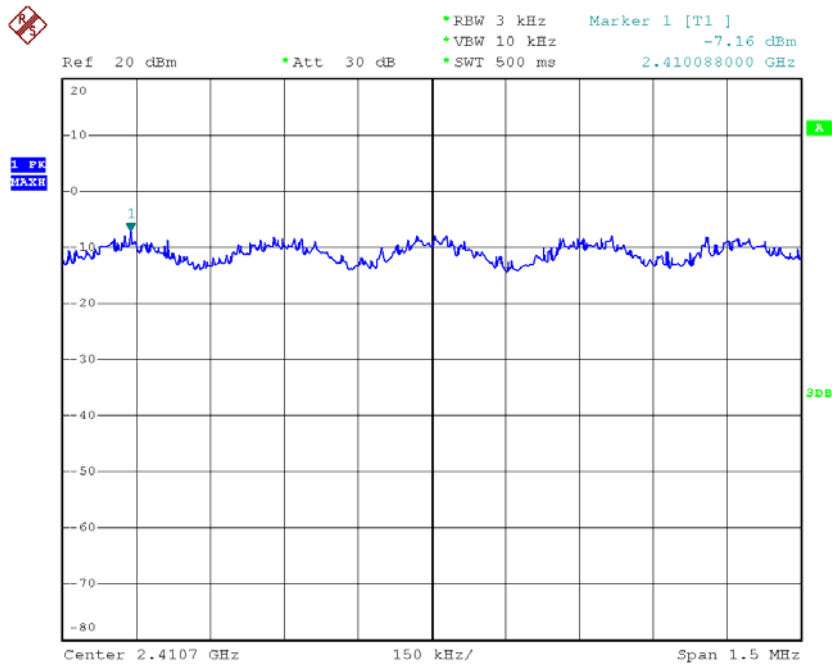


Date: 8.OCT.2008 17:36:08

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-7.16	< 8dBm	Pass

Figure Channel 1:

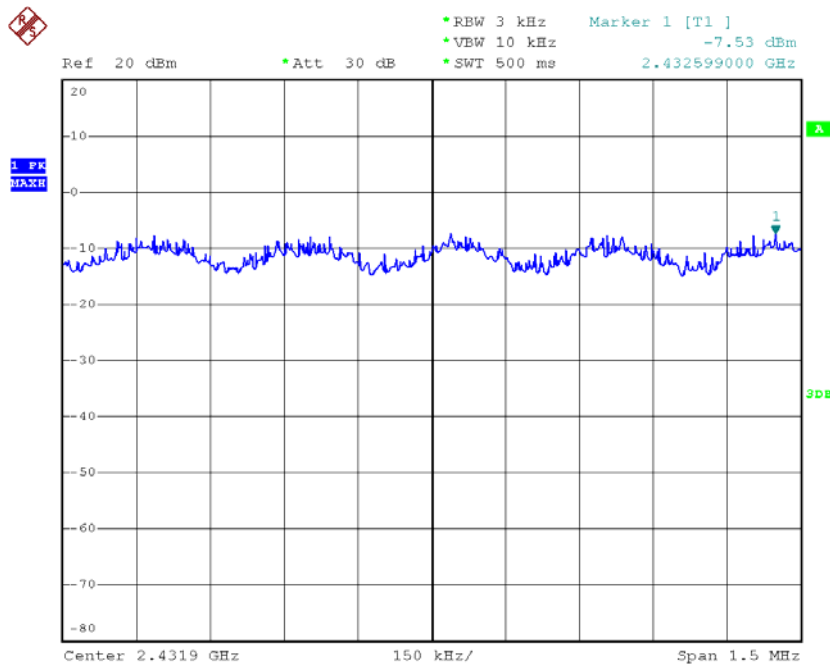


Date: 8.OCT.2008 17:44:21

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-7.53	< 8dBm	Pass

Figure Channel 6:

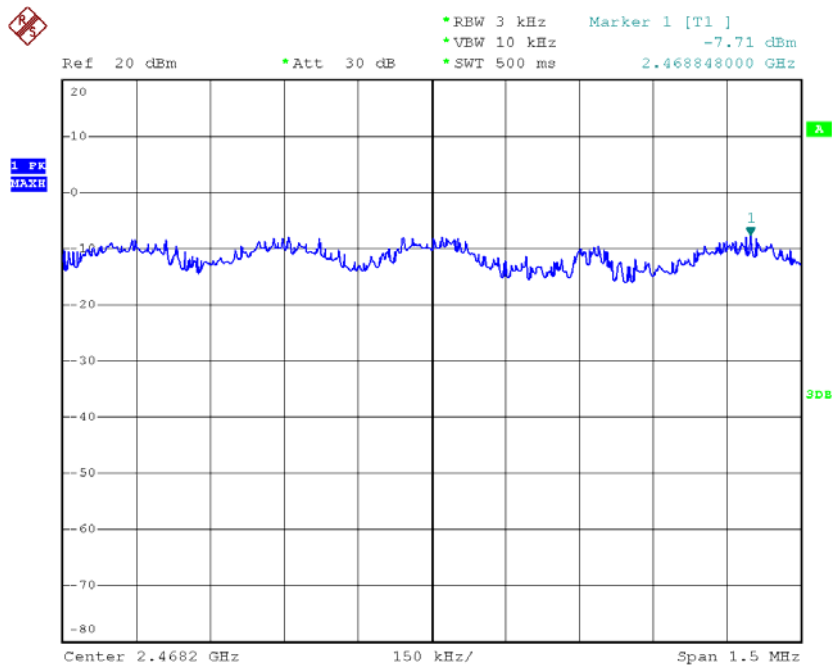


Date: 8.OCT.2008 17:53:01

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter (802.11g 54Mbps)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-7.71	< 8dBm	Pass

Figure Channel 11:

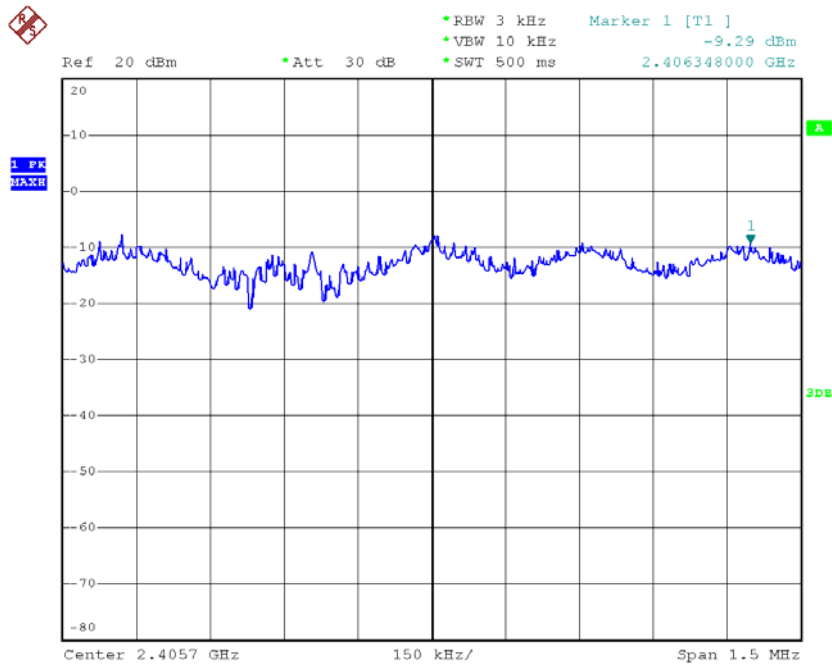


Date: 8.OCT.2008 17:54:18

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-9.29	< 8dBm	Pass

Figure Channel 1:

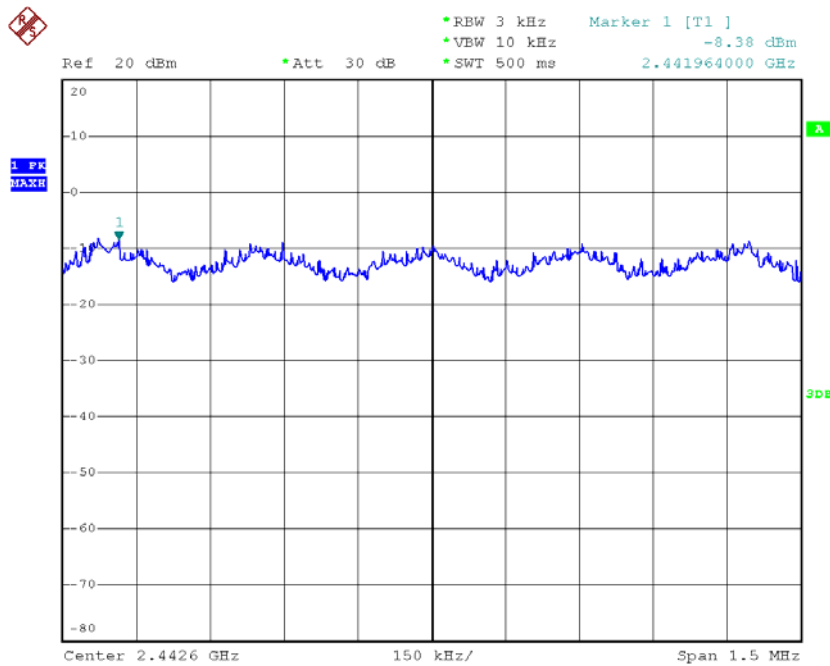


Date: 8.OCT.2008 17:57:30

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-8.38	< 8dBm	Pass

Figure Channel 6:

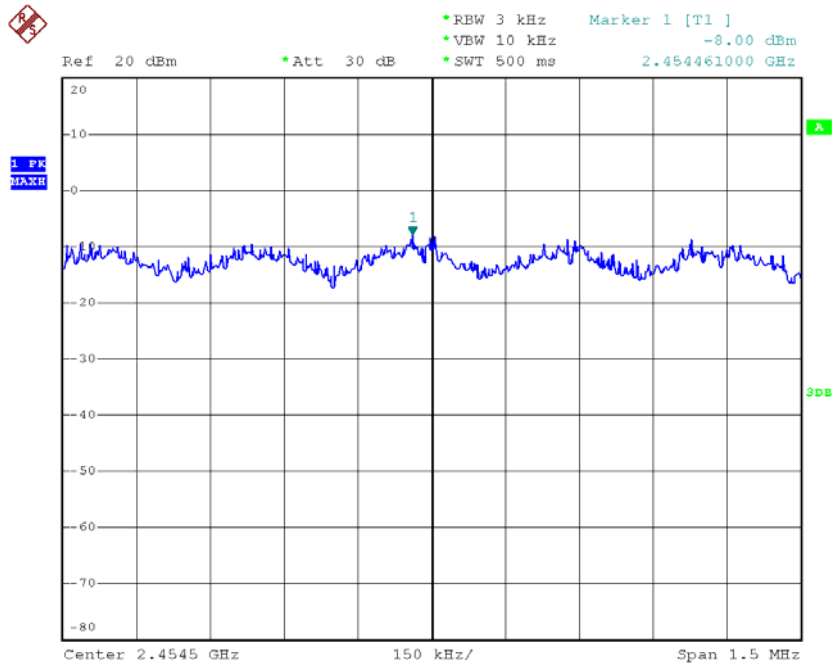


Date: 8.OCT.2008 17:59:02

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter (802.11n MCS7 65Mbps 20M-BW)-Ant 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-8.00	< 8dBm	Pass

Figure Channel 11:

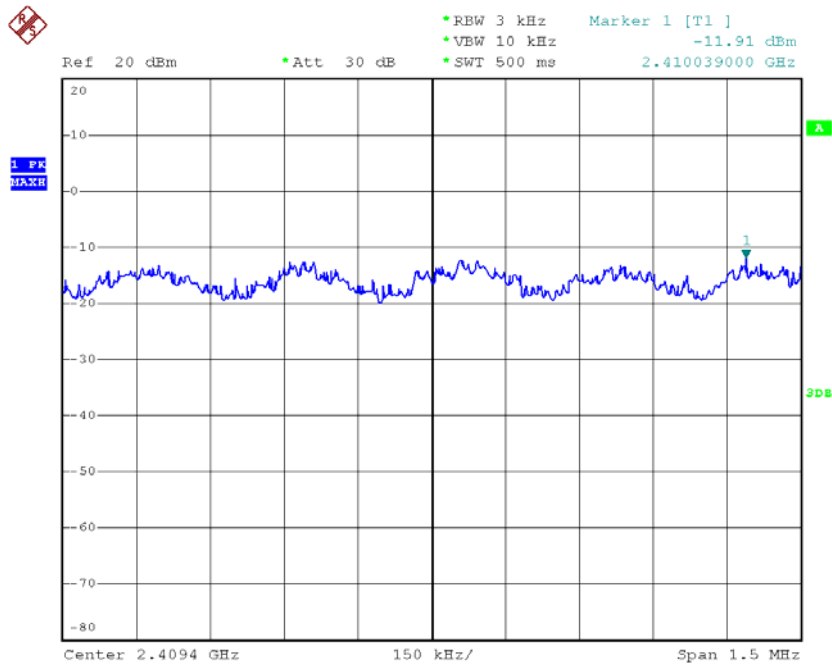


Date: 8.OCT.2008 17:59:55

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2422MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2422.00	-11.91	< 8dBm	Pass

Figure Channel 1:

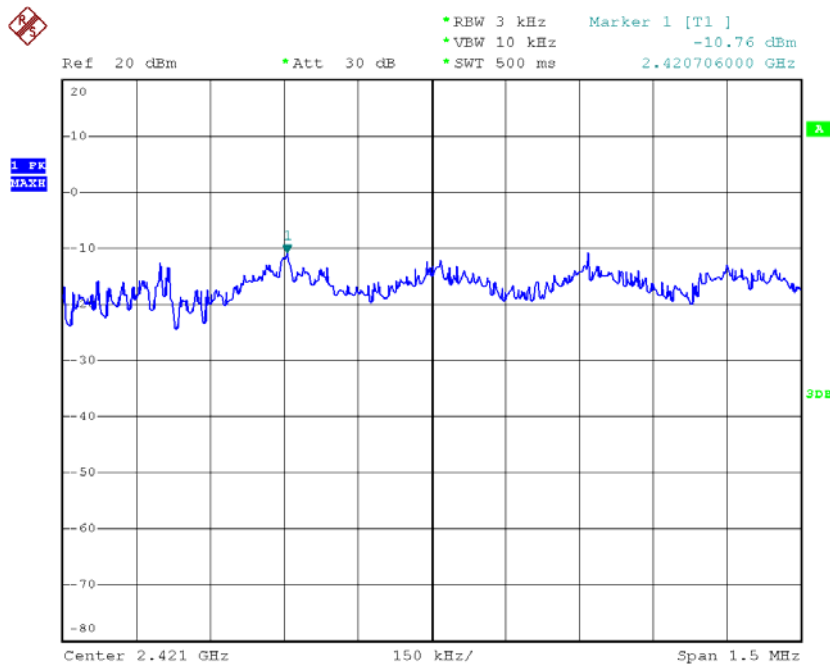


Date: 8.OCT.2008 18:06:15

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
4	2437.000	-10.76	< 8dBm	Pass

Figure Channel 4:

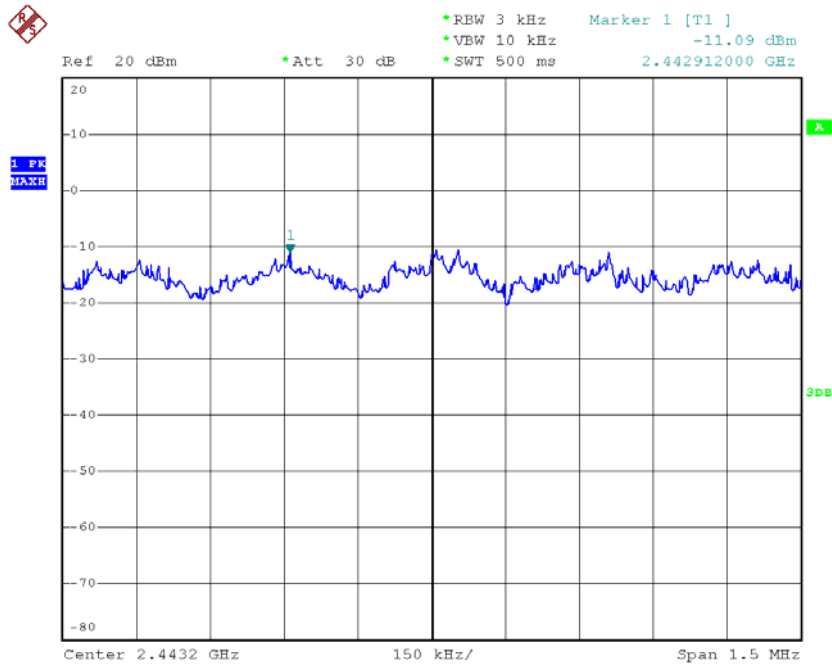


Date: 8.OCT.2008 18:09:24

Product : Eee PC
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter (802.11n MCS7 135Mbps 40M-BW)-Ant 1 (2452MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
7	2452.00	-11.09	< 8dBm	Pass

Figure Channel 7:



Date: 8.OCT.2008 18:10:12

9. EMI Reduction Method During Compliance Testing

No modification was made during testing.