



Test Report

Product Name : WIRELESS-G NETWORK ACCESS POINT
Model No. : NETPASSAGE WPE53G
FCC ID : TK4-08-WPE53G

Applicant : Compex Systems Pte Ltd
Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Date of Receipt : 2008/02/19
Issued Date : 2008/03/25
Report No. : 083S007-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.

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

Issued Date : 2008/03/25

Report No. : 083S007-RF-US-P05V01



Product Name : WIRELESS-G NETWORK ACCESS POINT

Applicant : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Manufacturer : Compex Systems Pte Ltd

Address : 135 Joo Seng Road, #08-01 PM Industrial Building
Singapore 368363

Model No. : NETPASSAGE WPE53G

FCC ID : TK4-08-WPE53G

Rated Voltage : AC 120 V / 60 Hz


EUT Voltage : DC 9V

Trade Name : Compex


Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007
ANSI C63.4: 2003

Test Result : Complied


Performed Location : SuZhou EMC laboratory
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FCC Registration Number: 800392

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(Murphy Wang)

Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

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

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://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/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	NETPASSAGE WPE53G
Trade Name	Compex
Model No.	NETPASSAGE WPE53G
FCC ID	TK4-08-WPE53G
Working Voltage	DC 5.0V
Frequency Range	2412 - 2462 MHz
Channel Number	11
Type of Modulation	802.11b: DSSS
	802.11g: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
Channel Control	Auto
Antenna Type	Dipole
Antenna Gain	2.0dBi

Component	
AC Adapter	Model No: AD-0970B Input: 230V~, 50Hz Output: 9VDC, 700mA Cable Out: Non-Shielded, 1.8m

802.11b/g Antenna List

No.	Manufacturer	Model No.	Peak Gain
1	Baohua	A5-FCS-003A1	2.0dBi of 2.4G

802.11b/g 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	--	--

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

Note:

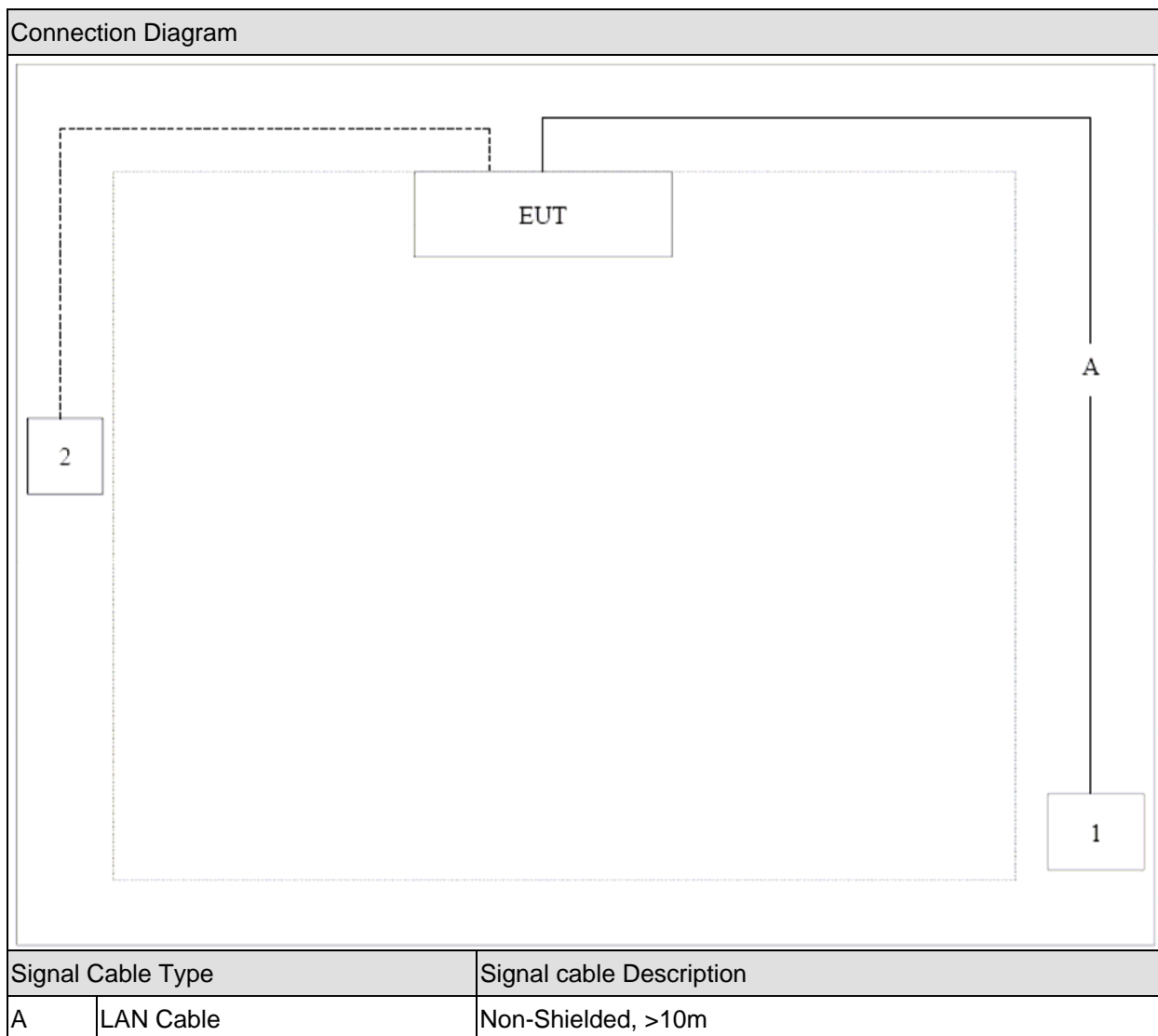
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 083S007-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	MacBook	Apple	MB061CH	W8732B4TZ5V	Power by adaptor
2	Notebook	DELL	PP19L	JH097 A01	Power by adaptor

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Execute the "briks" software, and then transmit data between EUT and notebook by wireless.

2. Technical Test

2.1. Summary of Test Result

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

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

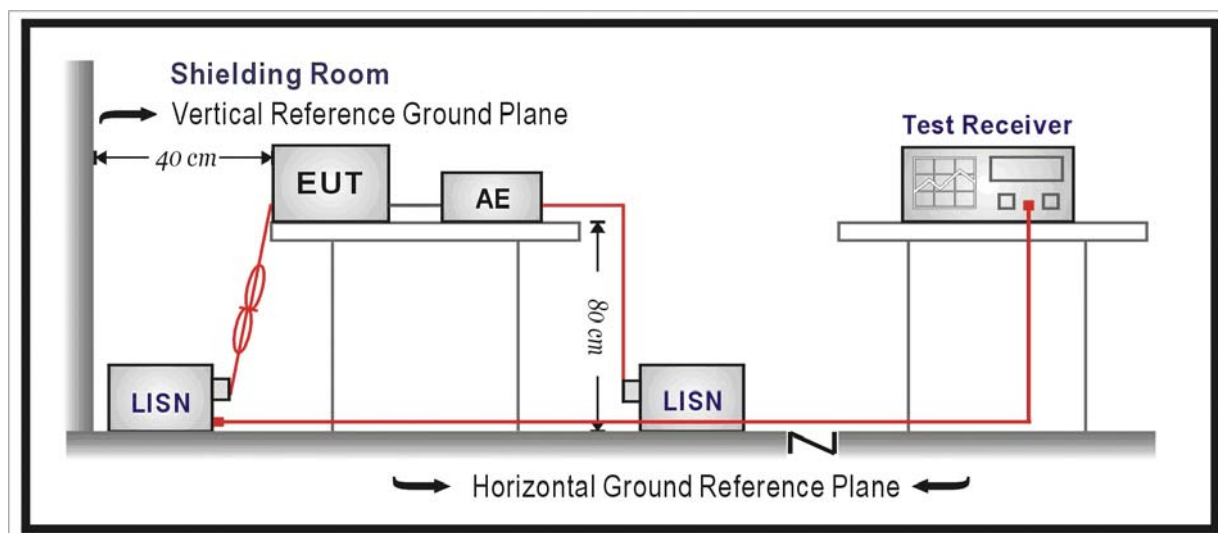
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Two-Line V-Network	R&S	ENV216	100013	2007/11/15
Two-Line V-Network	R&S	ENV216	100014	2007/11/15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2007/11/25
50ohm Termination	SHX	TF2	07081401	2007/10/19
Coaxial Cable	Luthi	RG214	519358	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2007/03/31

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.

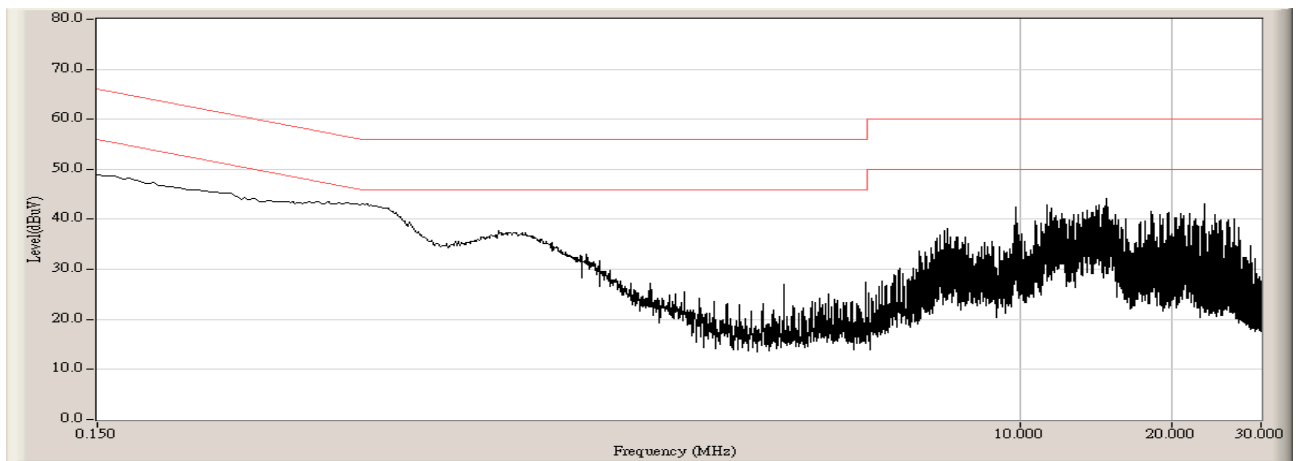
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

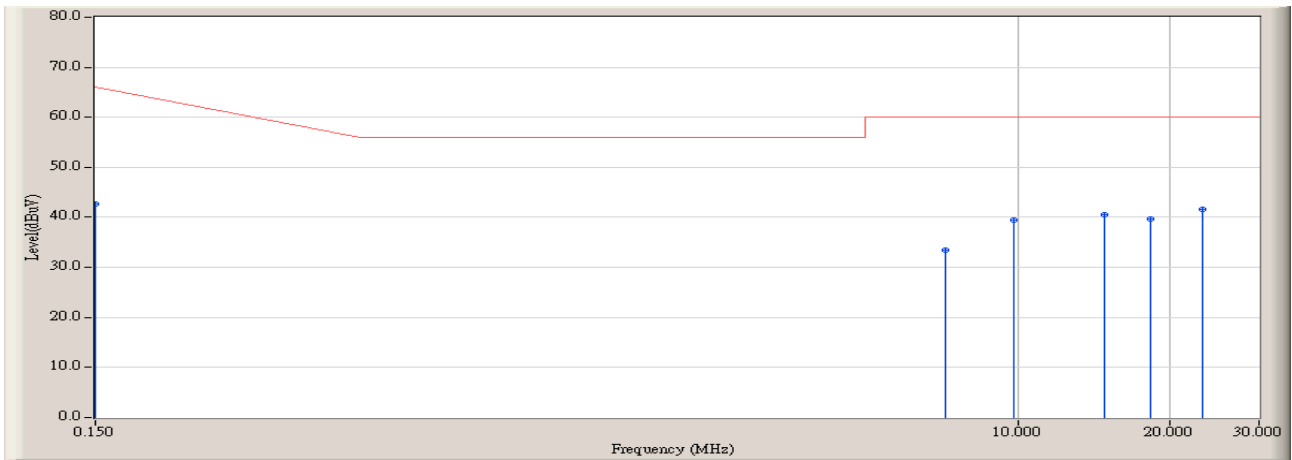
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:05
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at Channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:08
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at Channel 2437MHz

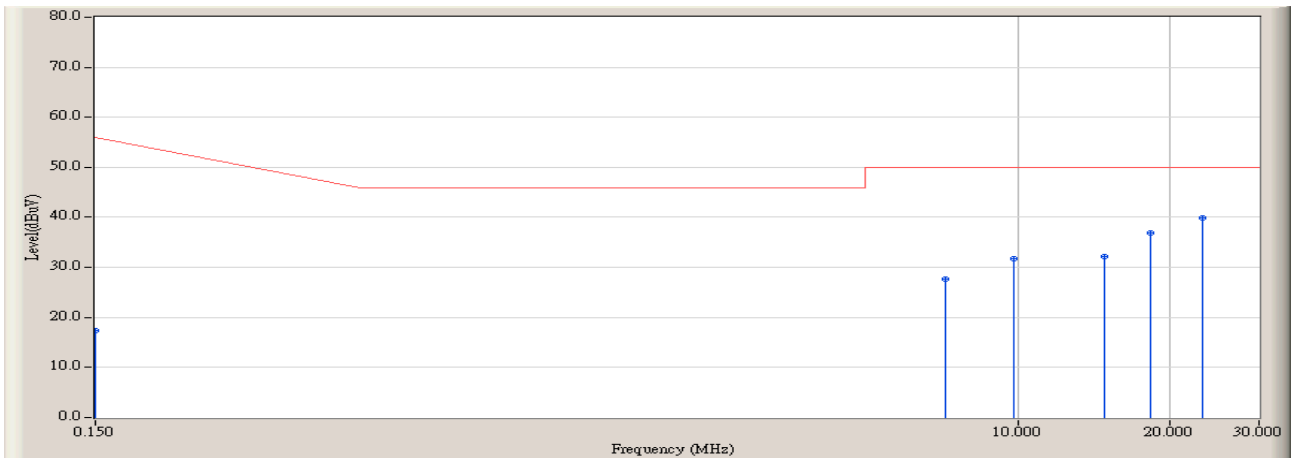


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	32.500	42.660	-23.340	66.000	QUASIPeAK
2		7.184	9.880	23.600	33.480	-26.520	60.000	QUASIPeAK
3		9.818	9.880	29.600	39.480	-20.520	60.000	QUASIPeAK
4		14.850	10.030	30.500	40.530	-19.470	60.000	QUASIPeAK
5		18.246	10.110	29.600	39.710	-20.290	60.000	QUASIPeAK
6	*	23.130	10.450	31.100	41.550	-18.450	60.000	QUASIPeAK

Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:08
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at Channel 2437MHz

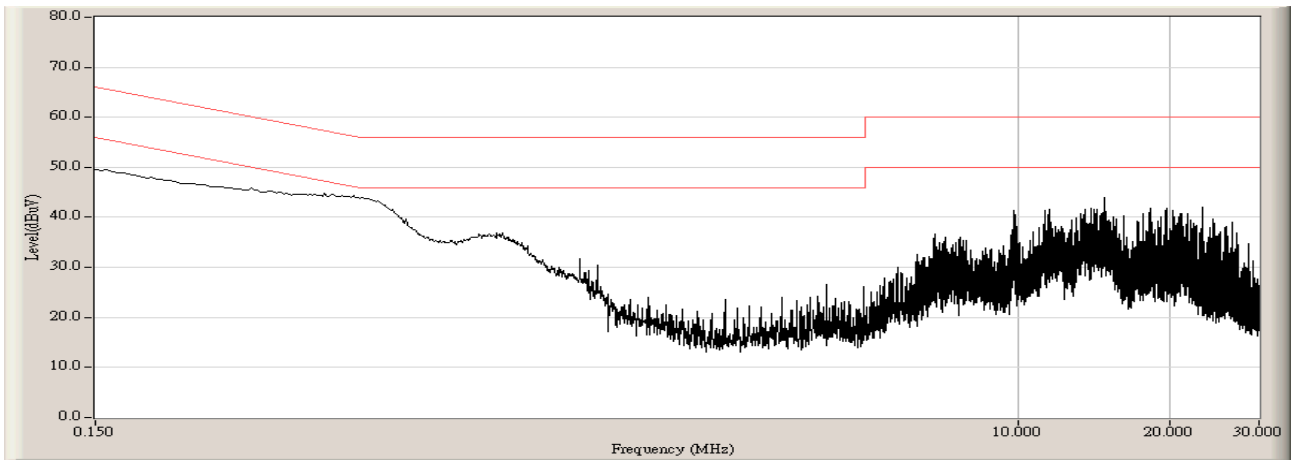


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	7.200	17.360	-38.640	56.000	AVERAGE
2		7.184	9.880	17.800	27.680	-22.320	50.000	AVERAGE
3		9.818	9.880	21.800	31.680	-18.320	50.000	AVERAGE
4		14.850	10.030	22.100	32.130	-17.870	50.000	AVERAGE
5		18.246	10.110	26.800	36.910	-13.090	50.000	AVERAGE
6	*	23.130	10.450	29.400	39.850	-10.150	50.000	AVERAGE

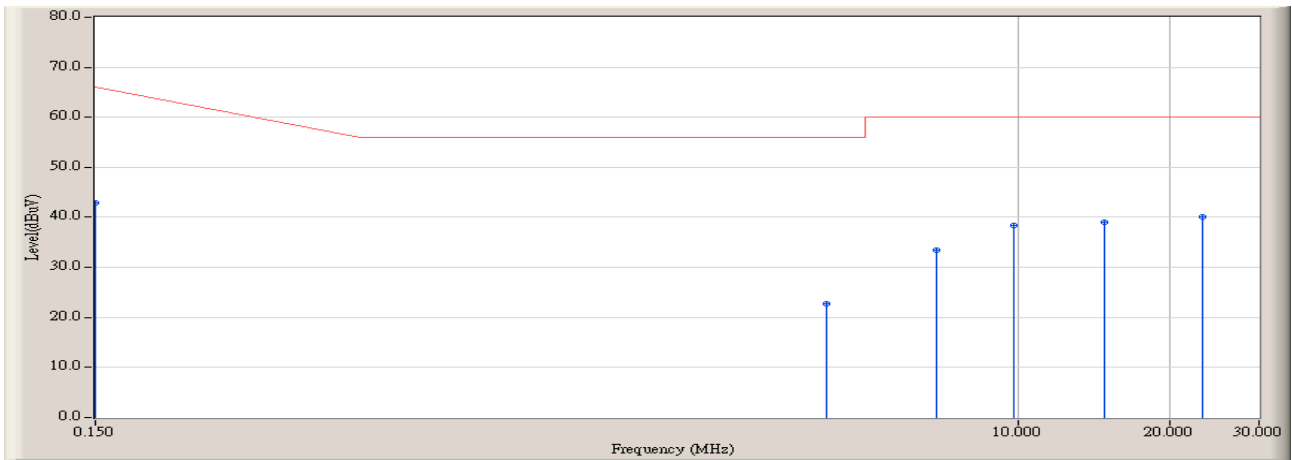
Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:11
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b Channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:13
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at Channel 2437MHz

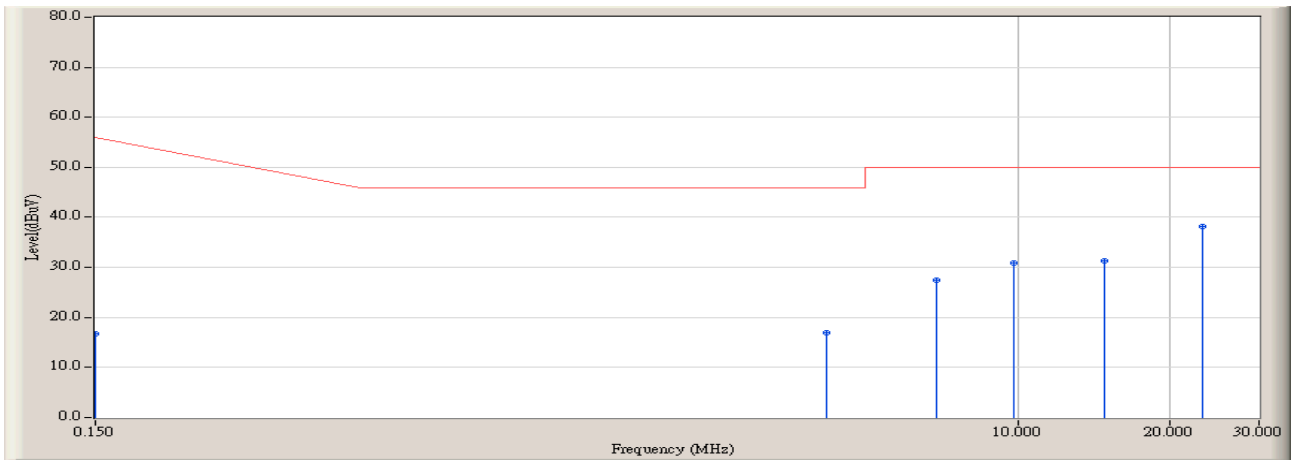


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	32.800	42.806	-23.194	66.000	QUASIPeAK
2		4.190	9.710	13.000	22.710	-33.290	56.000	QUASIPeAK
3		6.886	9.850	23.600	33.450	-26.550	60.000	QUASIPeAK
4		9.818	9.860	28.600	38.460	-21.540	60.000	QUASIPeAK
5		14.846	10.107	29.000	39.107	-20.893	60.000	QUASIPeAK
6	*	23.130	10.290	29.800	40.090	-19.910	60.000	QUASIPeAK

Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:13
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at Channel 2437MHz

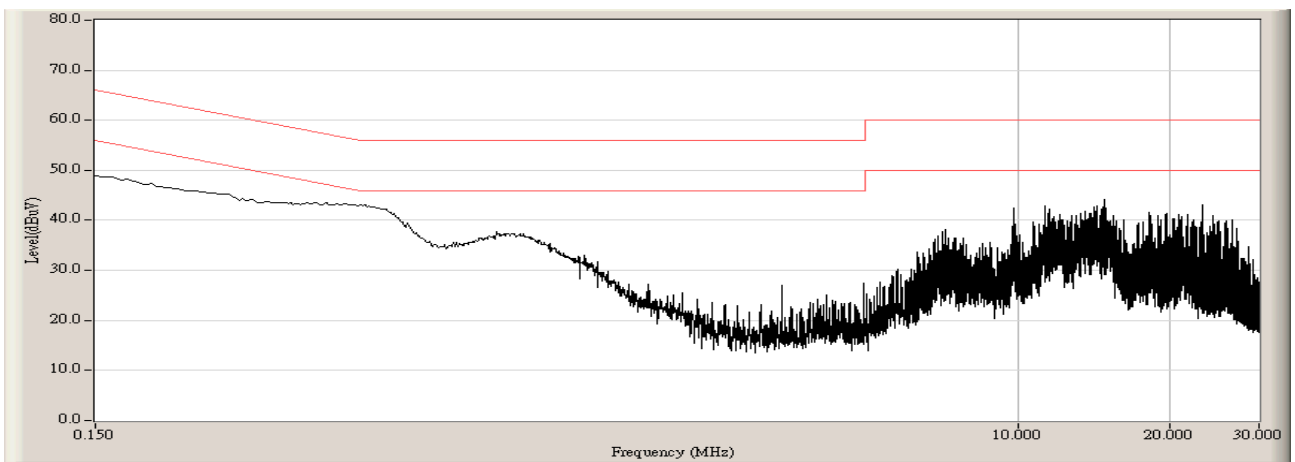


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	6.700	16.706	-39.294	56.000	AVERAGE
2		4.190	9.710	7.300	17.010	-28.990	46.000	AVERAGE
3		6.886	9.850	17.700	27.550	-22.450	50.000	AVERAGE
4		9.818	9.860	21.000	30.860	-19.140	50.000	AVERAGE
5		14.846	10.107	21.100	31.207	-18.793	50.000	AVERAGE
6	*	23.130	10.290	27.900	38.190	-11.810	50.000	AVERAGE

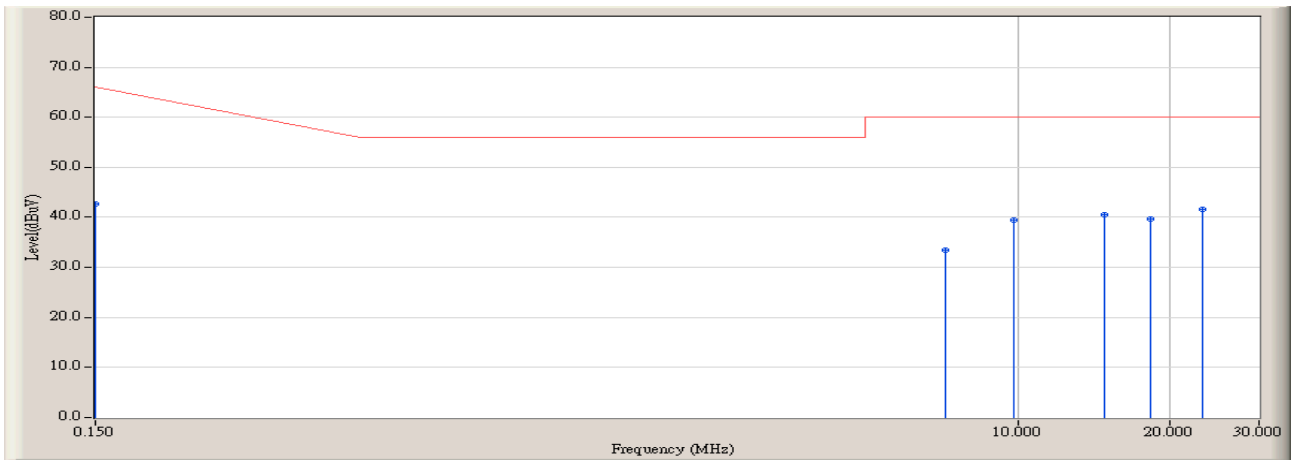
Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:15
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:18
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz

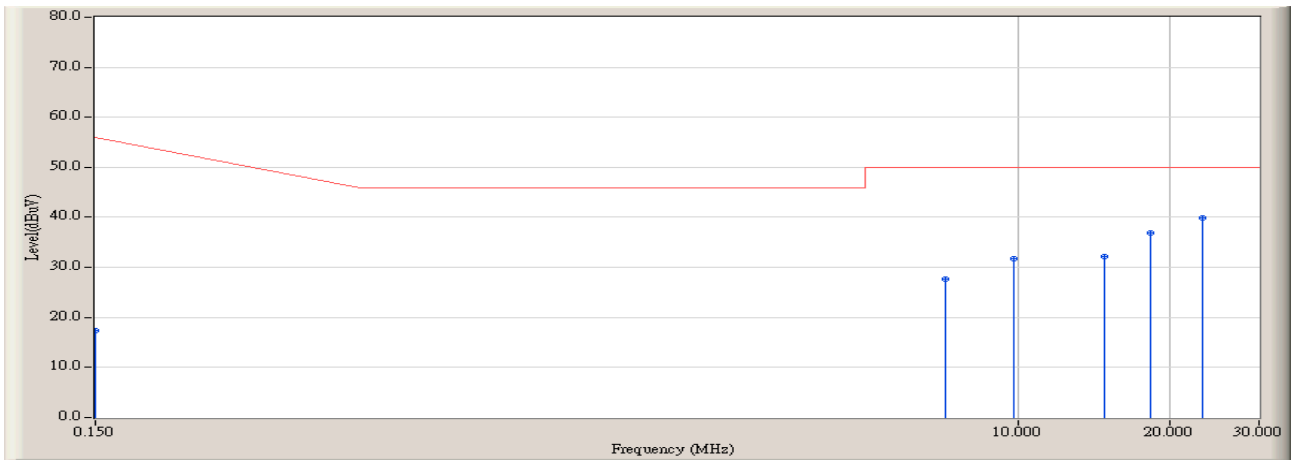


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	32.500	42.660	-23.340	66.000	QUASIPeAK
2		7.184	9.880	23.600	33.480	-26.520	60.000	QUASIPeAK
3		9.818	9.880	29.600	39.480	-20.520	60.000	QUASIPeAK
4		14.850	10.030	30.500	40.530	-19.470	60.000	QUASIPeAK
5		18.246	10.110	29.600	39.710	-20.290	60.000	QUASIPeAK
6	*	23.130	10.450	31.100	41.550	-18.450	60.000	QUASIPeAK

Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:18
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz

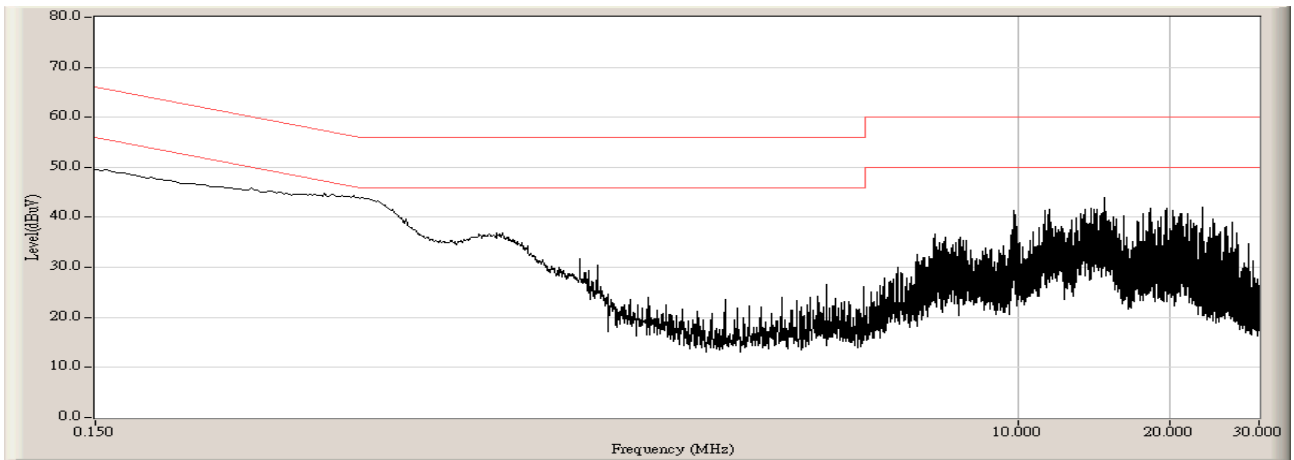


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	7.200	17.360	-38.640	56.000	AVERAGE
2		7.184	9.880	17.800	27.680	-22.320	50.000	AVERAGE
3		9.818	9.880	21.800	31.680	-18.320	50.000	AVERAGE
4		14.850	10.030	22.100	32.130	-17.870	50.000	AVERAGE
5		18.246	10.110	26.800	36.910	-13.090	50.000	AVERAGE
6	*	23.130	10.450	29.400	39.850	-10.150	50.000	AVERAGE

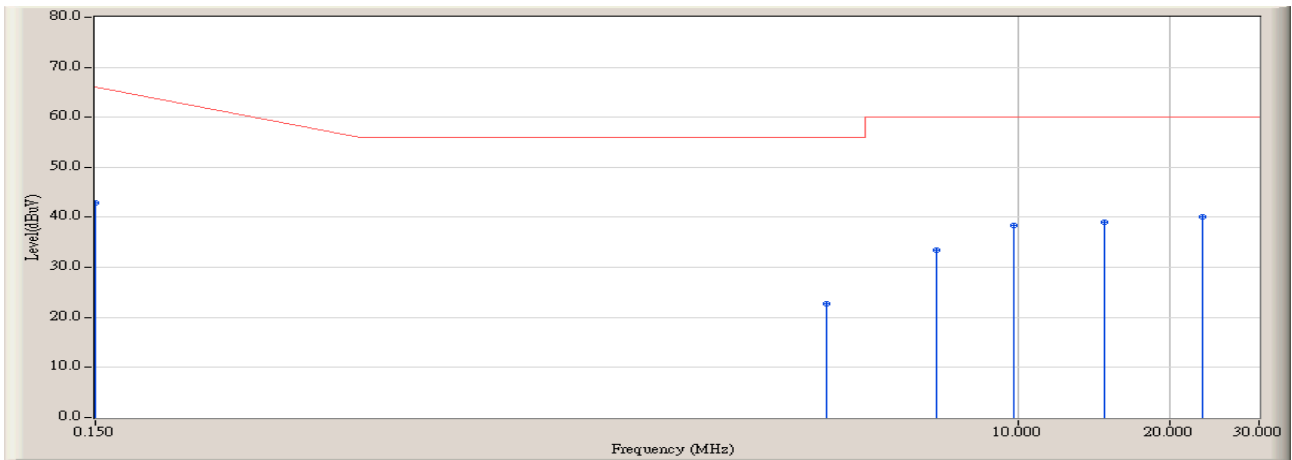
Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:21
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:23
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz

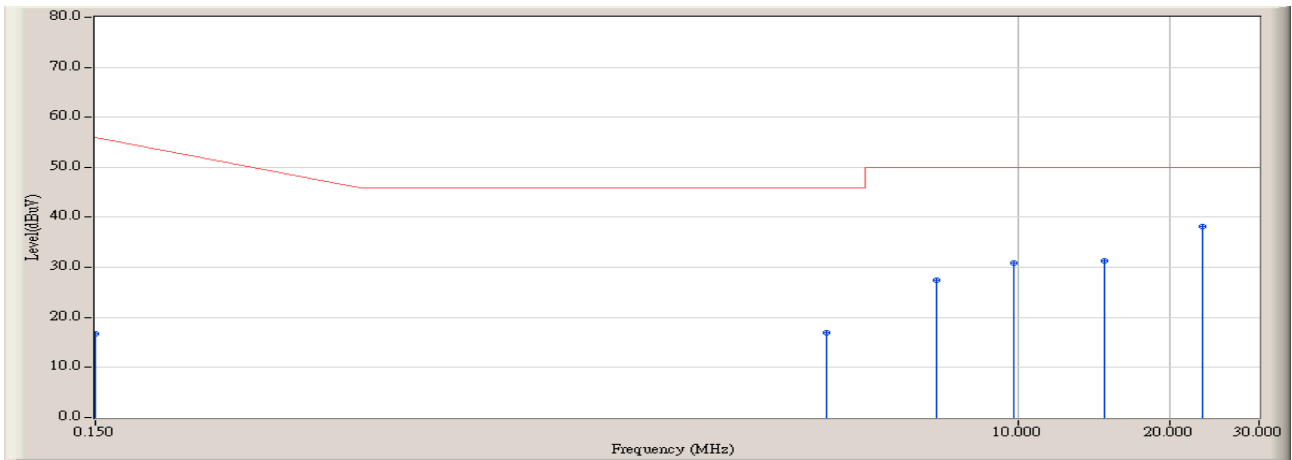


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
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2		4.190	9.710	13.000	22.710	-33.290	56.000	QUASIPeAK
3		6.886	9.850	23.600	33.450	-26.550	60.000	QUASIPeAK
4		9.818	9.860	28.600	38.460	-21.540	60.000	QUASIPeAK
5		14.846	10.107	29.000	39.107	-20.893	60.000	QUASIPeAK
6	*	23.130	10.290	29.800	40.090	-19.910	60.000	QUASIPeAK

Note:

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/21 - 15:23
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at Channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	6.700	16.706	-39.294	56.000	AVERAGE
2		4.190	9.710	7.300	17.010	-28.990	46.000	AVERAGE
3		6.886	9.850	17.700	27.550	-22.450	50.000	AVERAGE
4		9.818	9.860	21.000	30.860	-19.140	50.000	AVERAGE
5		14.846	10.107	21.100	31.207	-18.793	50.000	AVERAGE
6	*	23.130	10.290	27.900	38.190	-11.810	50.000	AVERAGE

Note:

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

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
EMI Test Receiver	R&S	ESCI	100573	2007/05/23
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2007/03/31

Radiated Emission / AC-3

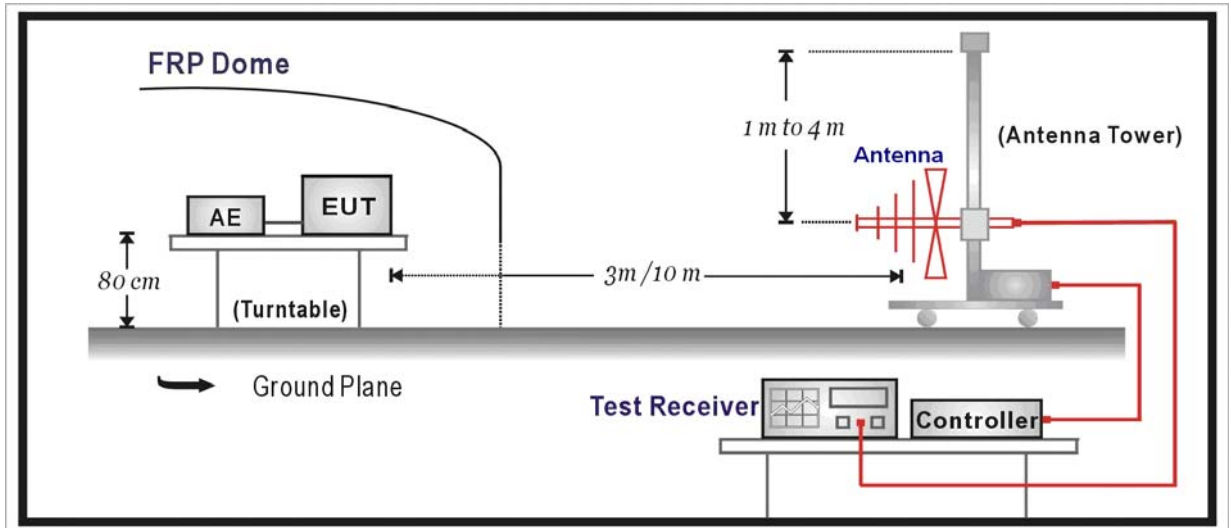
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2007/03/31

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

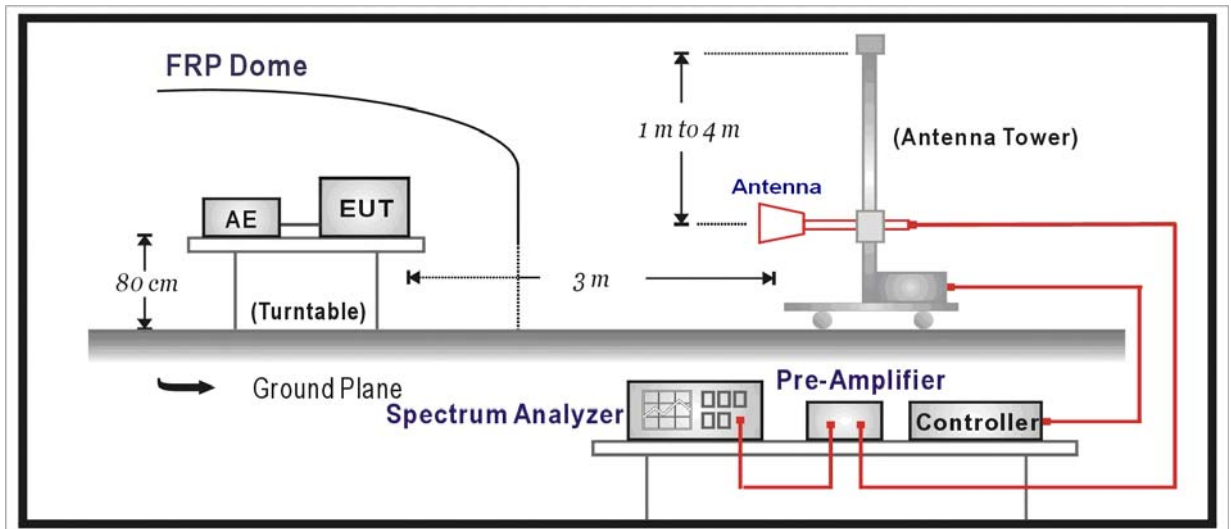
Note 2: The test instruments marked with "X" are used to measure the final test results.

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.

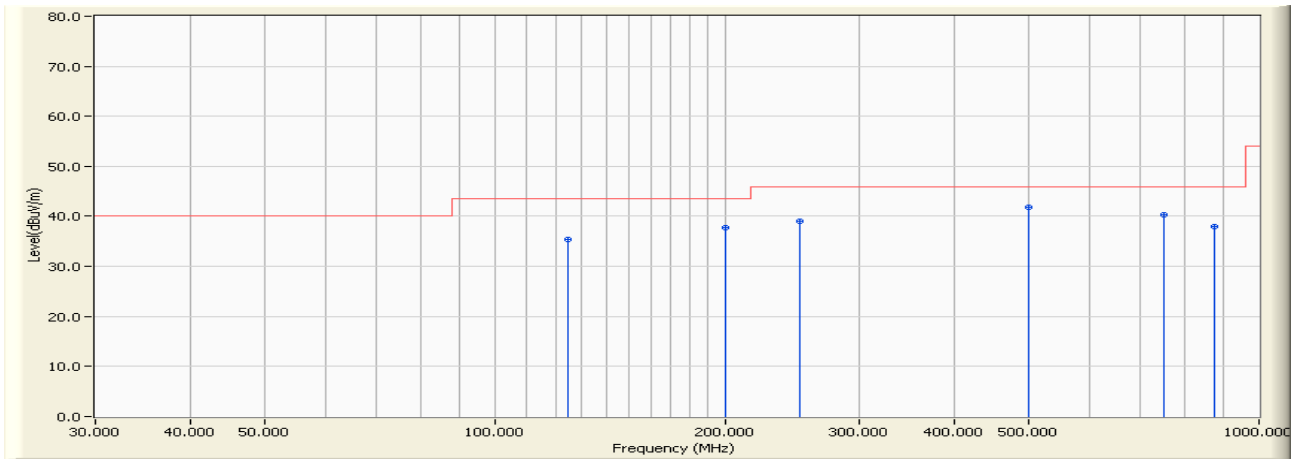
The frequency range from 30MHz to 10th harmonic is checked.

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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 09:44
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

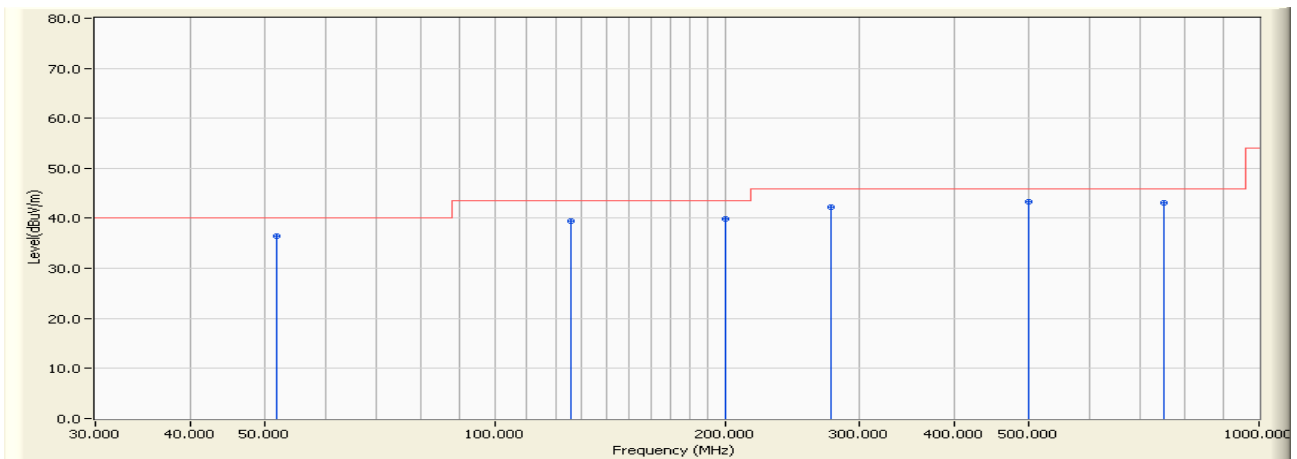


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	124.750	-10.074	45.400	35.326	-8.174	43.500	QUASIPeAK	125.000	116.400
2	200.750	-12.784	50.600	37.817	-5.683	43.500	QUASIPeAK	145.300	96.500
3	250.125	-9.546	48.500	38.953	-7.047	46.000	QUASIPeAK	241.000	73.200
4	* 500.450	-3.182	44.900	41.718	-4.282	46.000	QUASIPeAK	215.200	12.500
5	750.225	0.128	40.200	40.328	-5.672	46.000	QUASIPeAK	144.200	88.100
6	875.325	0.678	37.300	37.978	-8.022	46.000	QUASIPeAK	116.200	65.600

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 09:48
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

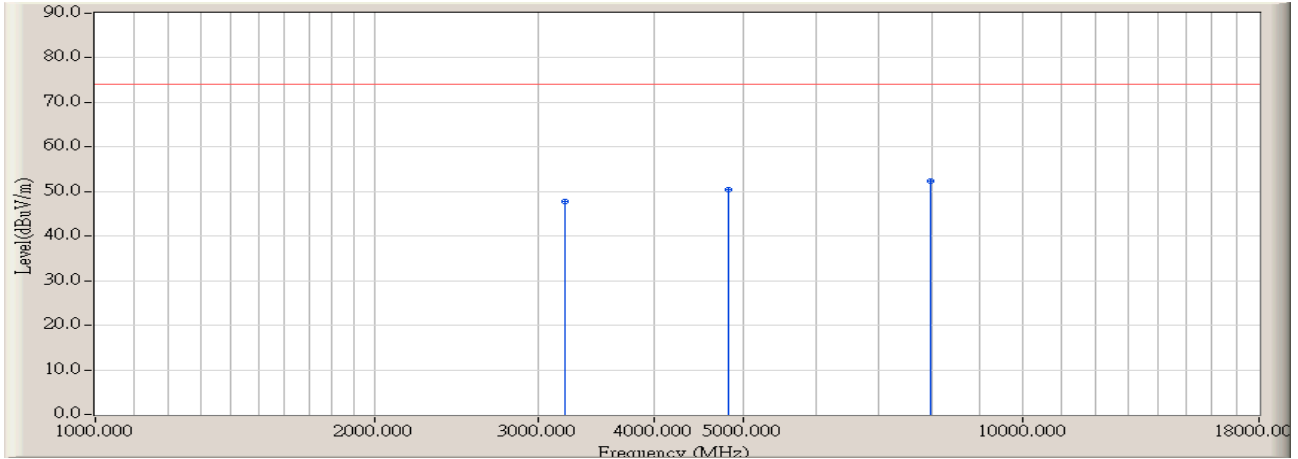


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	51.825	-15.144	51.600	36.456	-3.544	40.000	QUASIPeAK	100.000	74.600
2	125.575	-10.086	49.600	39.515	-3.985	43.500	QUASIPeAK	102.600	45.300
3	200.750	-12.784	52.600	39.817	-3.683	43.500	QUASIPeAK	100.000	92.500
4	275.925	-8.947	51.200	42.253	-3.747	46.000	QUASIPeAK	100.000	322.800
5	* 500.450	-3.182	46.400	43.218	-2.782	46.000	QUASIPeAK	100.000	42.500
6	750.225	0.128	43.000	43.128	-2.872	46.000	QUASIPeAK	100.000	115.800

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:22
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

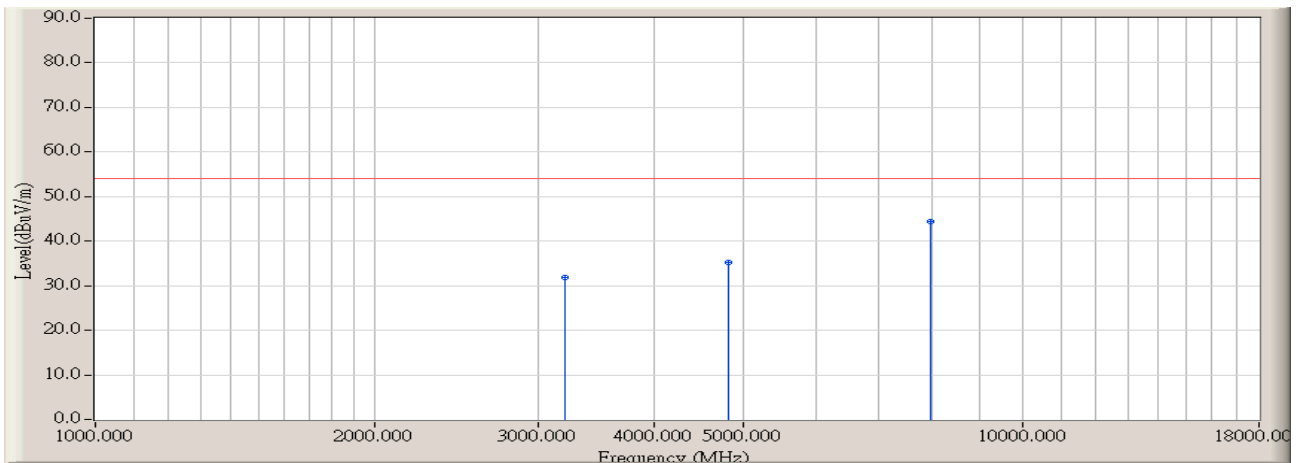


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	49.304	47.814	-26.186	74.000	PEAK	106.000	74.200
2	4825.000	3.610	46.904	50.514	-23.486	74.000	PEAK	100.000	95.800
3	* 7970.000	13.530	38.786	52.316	-21.684	74.000	PEAK	120.600	117.900

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:22
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

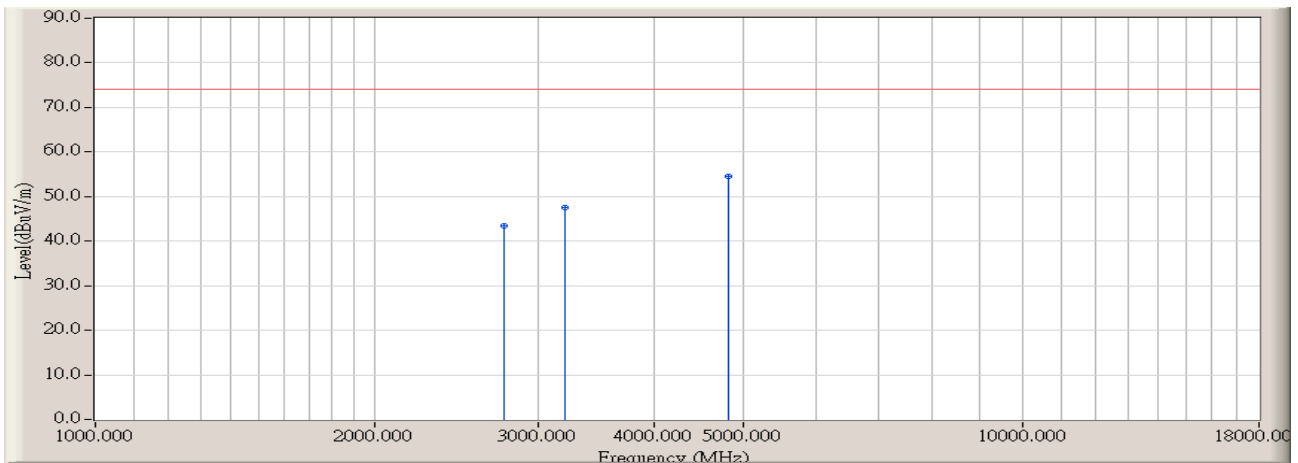


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	33.400	31.910	-22.090	54.000	AVERAGE	106.000	74.200
2	4825.000	3.610	31.700	35.310	-18.690	54.000	AVERAGE	100.000	95.800
3	* 7970.000	13.530	30.900	44.430	-9.570	54.000	AVERAGE	120.600	117.900

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:24
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

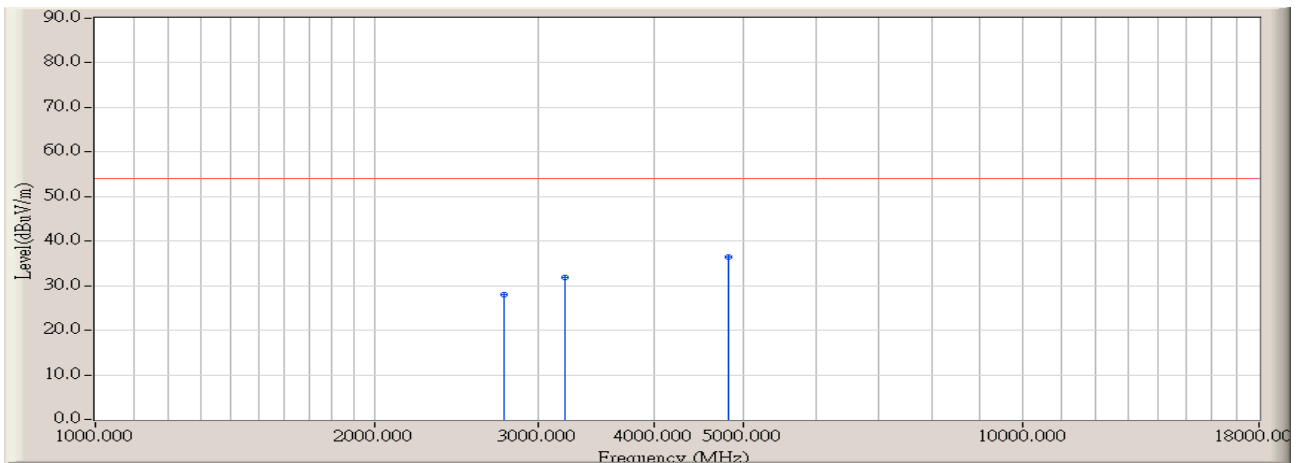


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2756.667	-2.494	46.009	43.516	-30.484	74.000	PEAK	100.000	136.500
2	3210.000	-1.490	48.987	47.497	-26.503	74.000	PEAK	100.000	77.100
3	* 4825.000	3.610	50.851	54.461	-19.539	74.000	PEAK	105.000	244.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:24
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

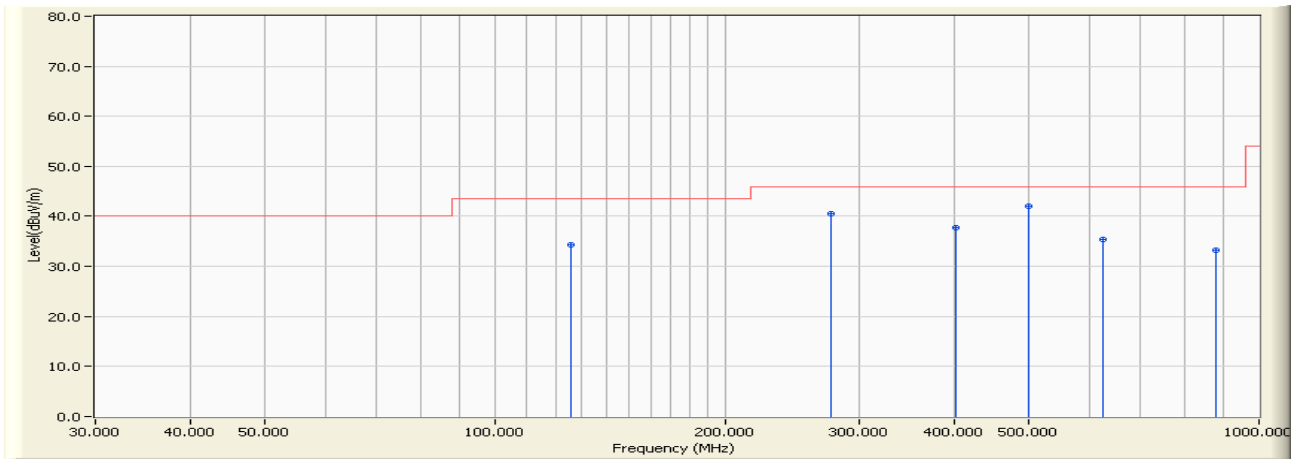


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2756.667	-2.494	30.500	28.007	-25.993	54.000	AVERAGE	100.000	136.500
2	3210.000	-1.490	33.400	31.910	-22.090	54.000	AVERAGE	100.000	77.100
3	* 4825.000	3.610	32.900	36.510	-17.490	54.000	AVERAGE	105.000	244.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 09:54
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b by 2437MHz

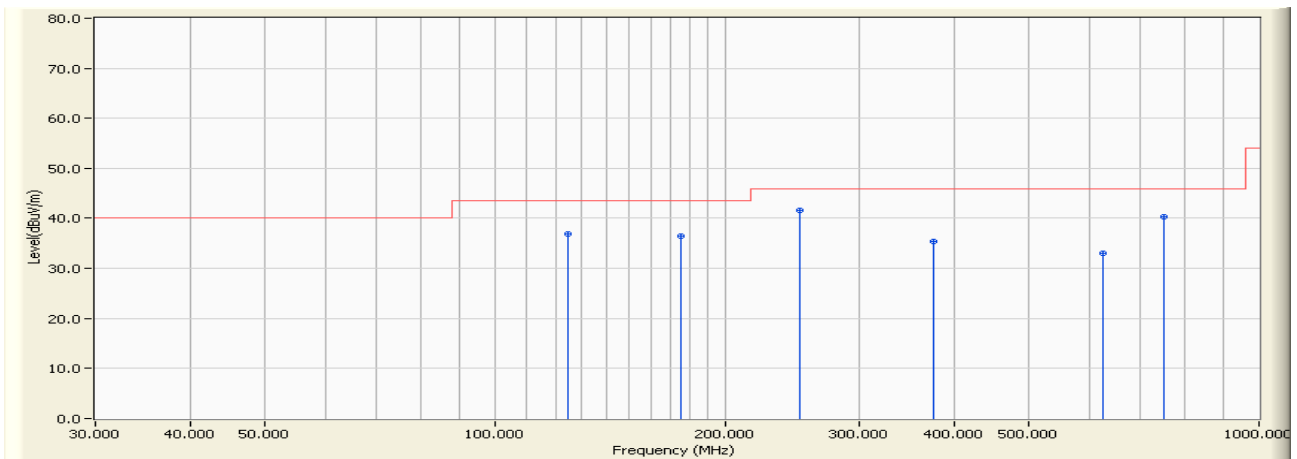


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	125.575	-10.086	44.500	34.415	-9.085	43.500	QUASIPeAK	125.200	74.600
2	274.925	-8.957	49.400	40.443	-5.557	46.000	QUASIPeAK	216.400	85.900
3	401.025	-5.010	42.800	37.790	-8.210	46.000	QUASIPeAK	312.500	96.000
4	* 500.500	-3.186	45.200	42.015	-3.985	46.000	QUASIPeAK	204.000	117.500
5	624.150	-1.134	36.600	35.465	-10.535	46.000	QUASIPeAK	133.000	77.500
6	876.325	0.646	32.700	33.346	-12.654	46.000	QUASIPeAK	146.000	228.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 09:56
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b by 2437MHz

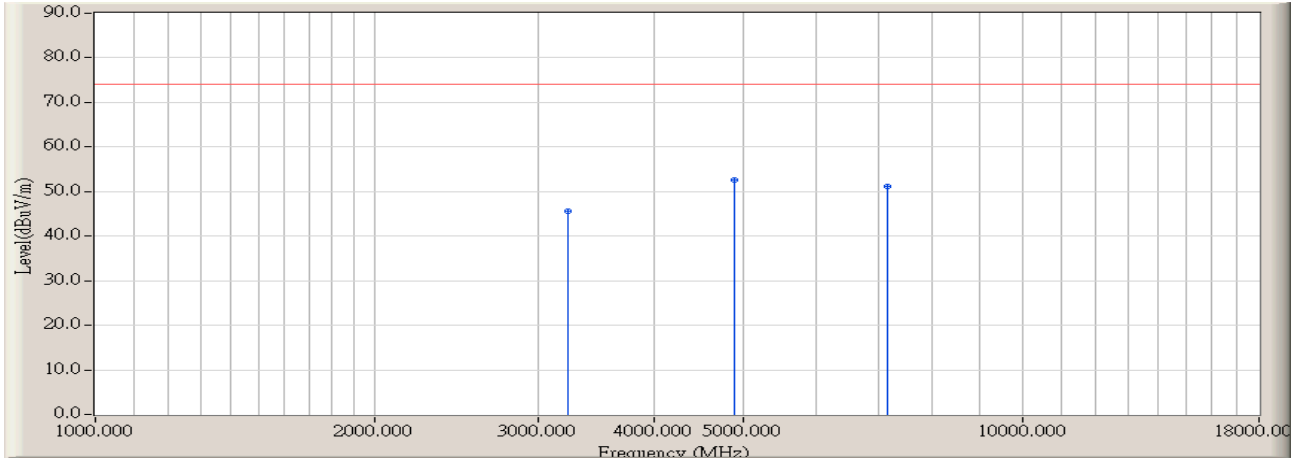


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	124.750	-10.074	46.900	36.826	-6.674	43.500	QUASIPeAK	100.000	65.900
2	175.500	-12.863	49.400	36.537	-6.963	43.500	QUASIPeAK	112.500	46.900
3	* 250.125	-9.546	51.100	41.553	-4.447	46.000	QUASIPeAK	104.600	117.000
4	374.500	-5.982	41.400	35.417	-10.583	46.000	QUASIPeAK	100.000	99.300
5	625.500	-1.084	34.100	33.016	-12.984	46.000	QUASIPeAK	100.000	114.700
6	750.250	0.128	40.300	40.428	-5.572	46.000	QUASIPeAK	100.000	89.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:27
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

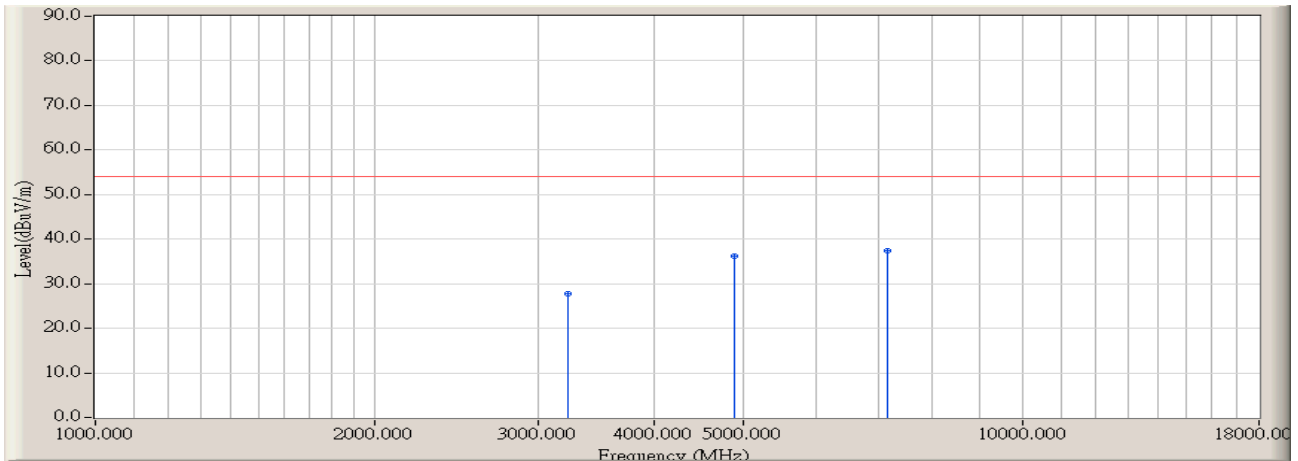


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	47.323	45.580	-28.420	74.000	PEAK	119.500	48.300
2	* 4881.667	3.633	49.086	52.719	-21.281	74.000	PEAK	126.500	302.000
3	7148.333	13.013	38.202	51.215	-22.785	74.000	PEAK	136.000	98.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:27
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

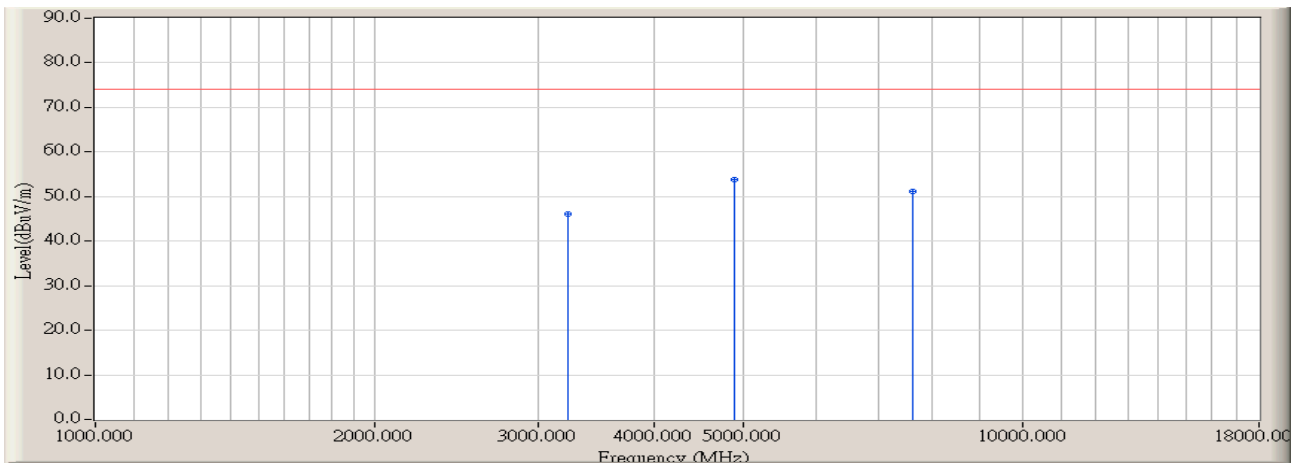


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	29.400	27.657	-26.343	54.000	AVERAGE	119.500	48.300
2	4881.667	3.633	32.600	36.233	-17.767	54.000	AVERAGE	126.500	302.000
3	* 7148.333	13.013	24.400	37.413	-16.587	54.000	AVERAGE	136.000	98.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:30
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

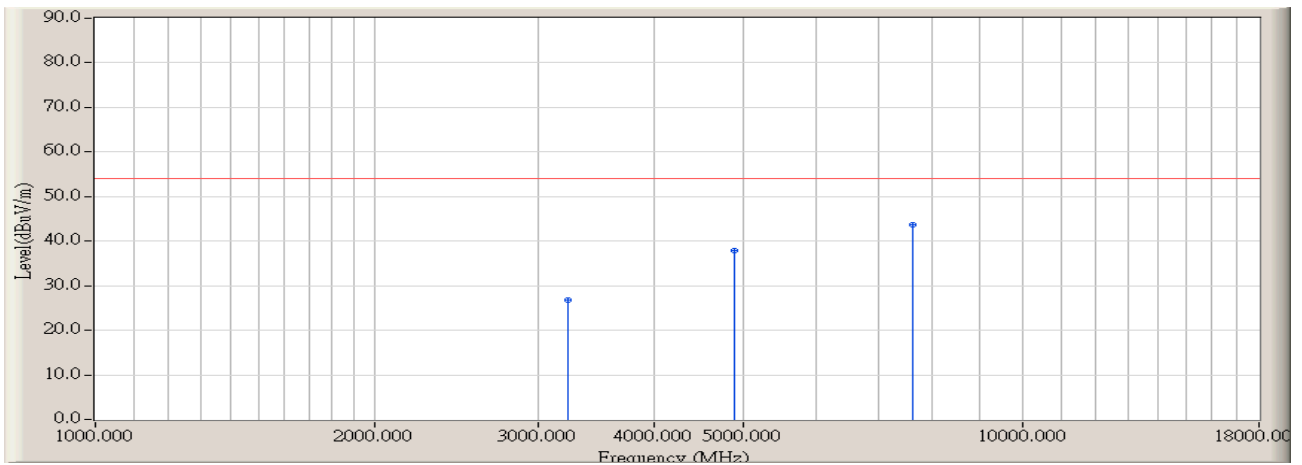


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	47.716	45.973	-28.027	74.000	PEAK	100.000	29.800
2	* 4881.667	3.633	50.259	53.892	-20.108	74.000	PEAK	107.600	118.000
3	7630.000	12.570	38.624	51.194	-22.806	74.000	PEAK	104.500	77.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:30
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

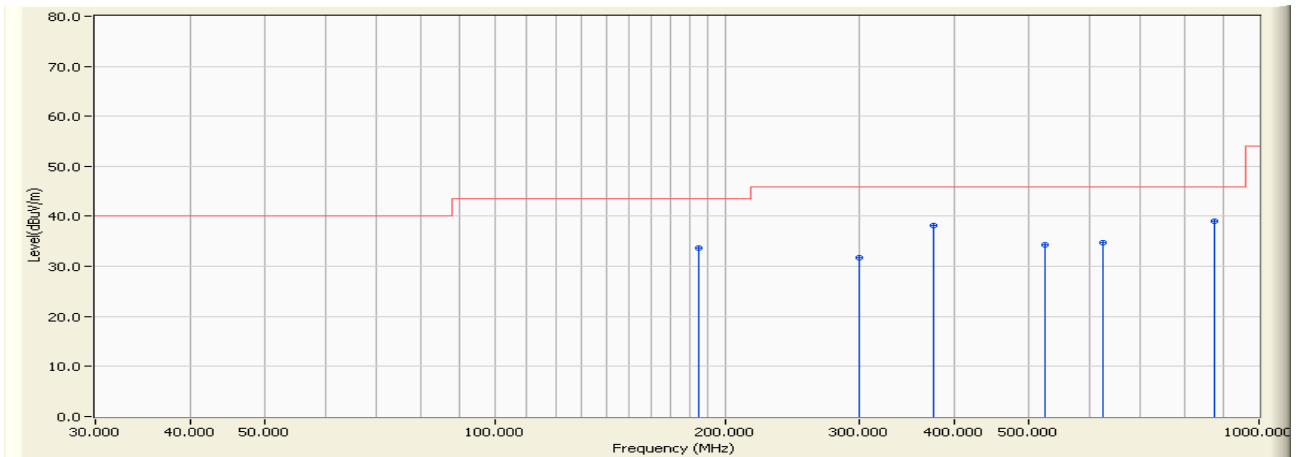


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	28.600	26.857	-27.143	54.000	AVERAGE	100.000	29.800
2	4881.667	3.633	34.300	37.933	-16.067	54.000	AVERAGE	107.600	118.000
3	* 7630.000	12.570	31.200	43.770	-10.230	54.000	AVERAGE	104.500	77.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:06
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

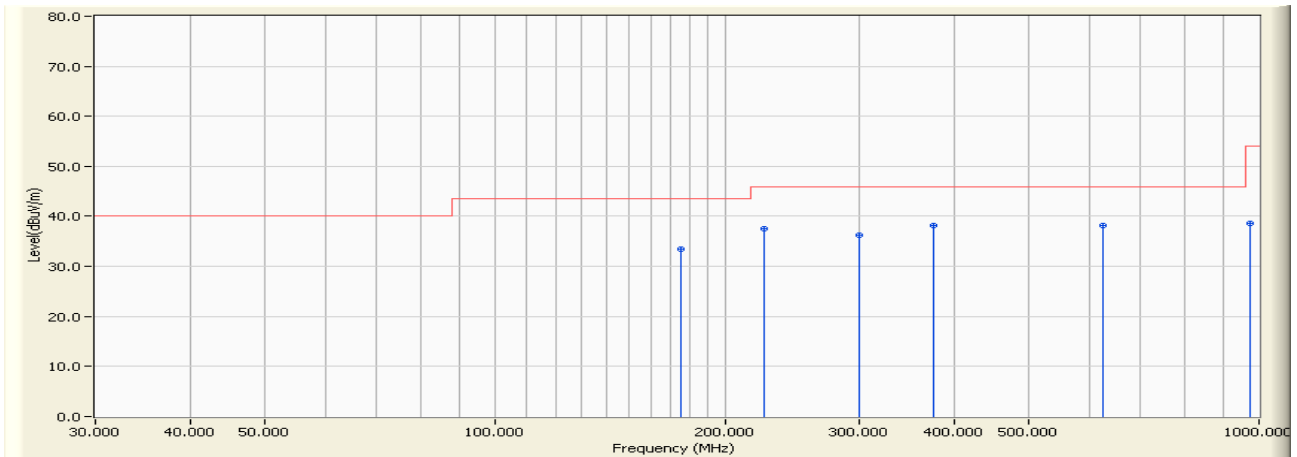


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	185.200	-13.097	46.700	33.603	-9.897	43.500	QUASPEAK	214.600	78.400
2	299.750	-8.500	40.300	31.800	-14.200	46.000	QUASPEAK	322.600	46.200
3	375.500	-5.997	44.200	38.203	-7.797	46.000	QUASPEAK	122.600	136.900
4	524.700	-2.726	37.100	34.374	-11.626	46.000	QUASPEAK	109.500	83.000
5	624.125	-1.135	35.800	34.665	-11.335	46.000	QUASPEAK	100.000	74.900
6	* 875.250	0.681	38.400	39.081	-6.919	46.000	QUASPEAK	106.200	115.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:09
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

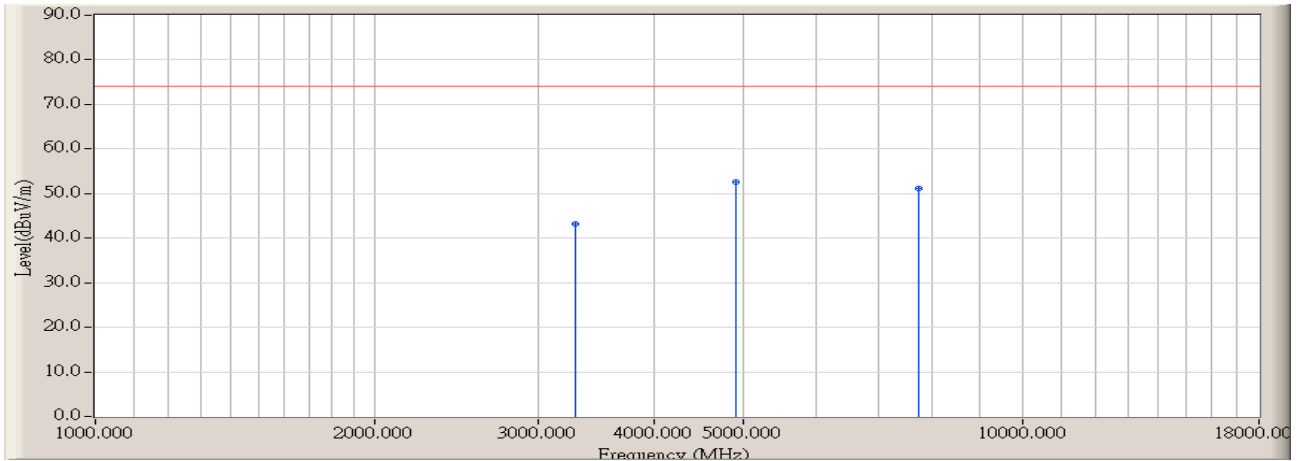


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	175.500	-12.863	46.400	33.537	-9.963	43.500	QUASIPeAK	100.000	36.400
2	225.000	-12.635	50.200	37.566	-8.434	46.000	QUASIPeAK	104.500	93.300
3	300.125	-8.482	44.800	36.318	-9.682	46.000	QUASIPeAK	115.200	265.300
4	* 374.350	-5.980	44.100	38.120	-7.880	46.000	QUASIPeAK	100.000	84.700
5	625.500	-1.084	39.200	38.116	-7.884	46.000	QUASIPeAK	100.000	172.600
6	975.250	1.057	37.600	38.657	-15.343	54.000	QUASIPeAK	100.000	49.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:34
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

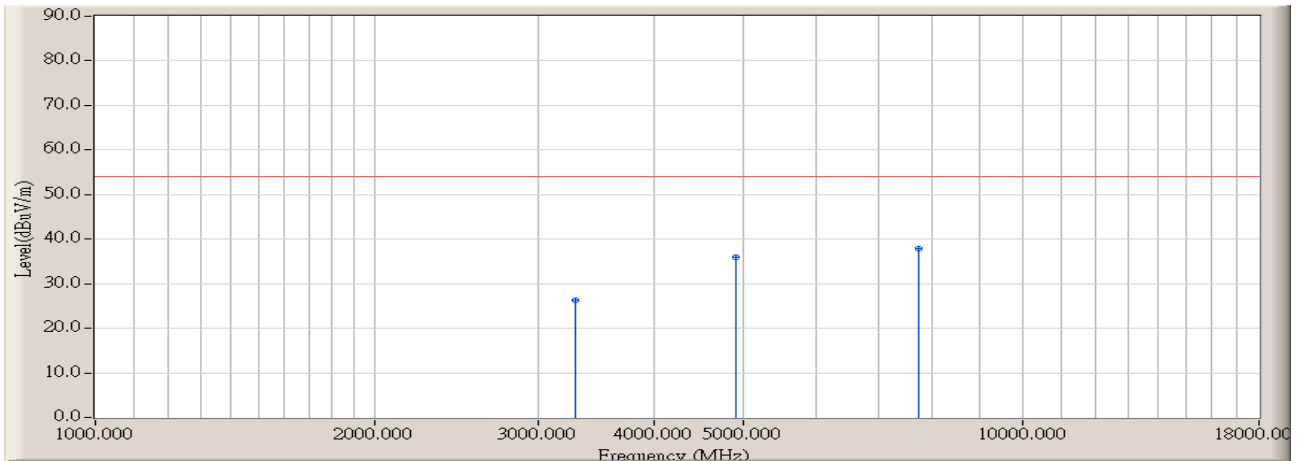


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	44.922	43.202	-30.798	74.000	PEAK	141.600	85.400
2	* 4910.000	3.720	48.924	52.644	-21.356	74.000	PEAK	122.500	71.000
3	7743.333	12.976	38.281	51.258	-22.742	74.000	PEAK	103.600	310.200

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:34
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

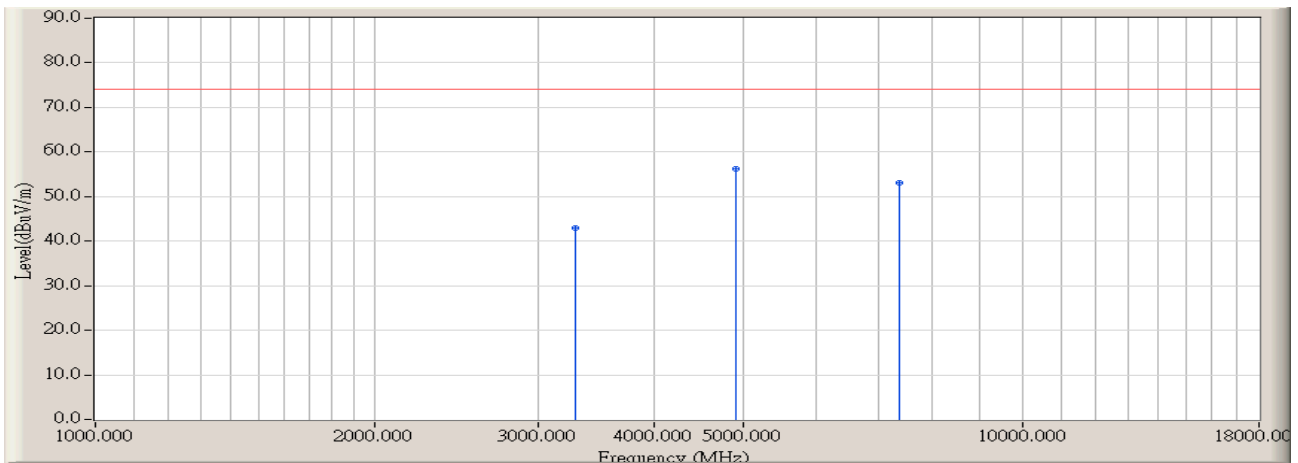


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	27.900	26.180	-27.820	54.000	AVERAGE	141.600	85.400
2	4910.000	3.720	32.200	35.920	-18.080	54.000	AVERAGE	122.500	71.000
3	* 7743.333	12.976	25.000	37.977	-16.023	54.000	AVERAGE	103.600	310.200

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:37
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

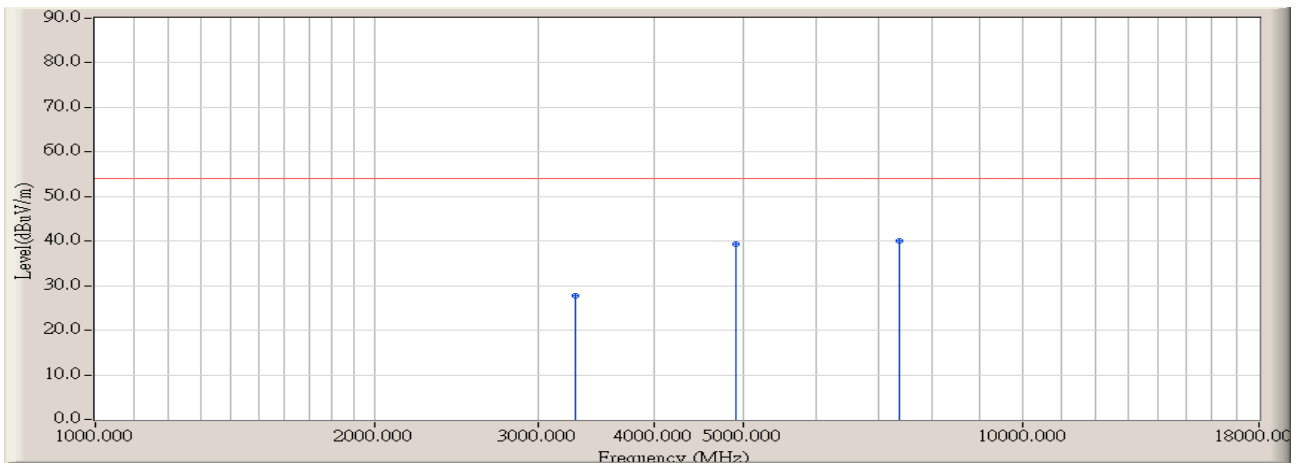


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	44.732	43.012	-30.988	74.000	PEAK	100.000	76.500
2	* 4910.000	3.720	52.532	56.252	-17.748	74.000	PEAK	106.500	74.300
3	7375.000	11.650	41.463	53.113	-20.887	74.000	PEAK	110.500	126.500

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:37
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

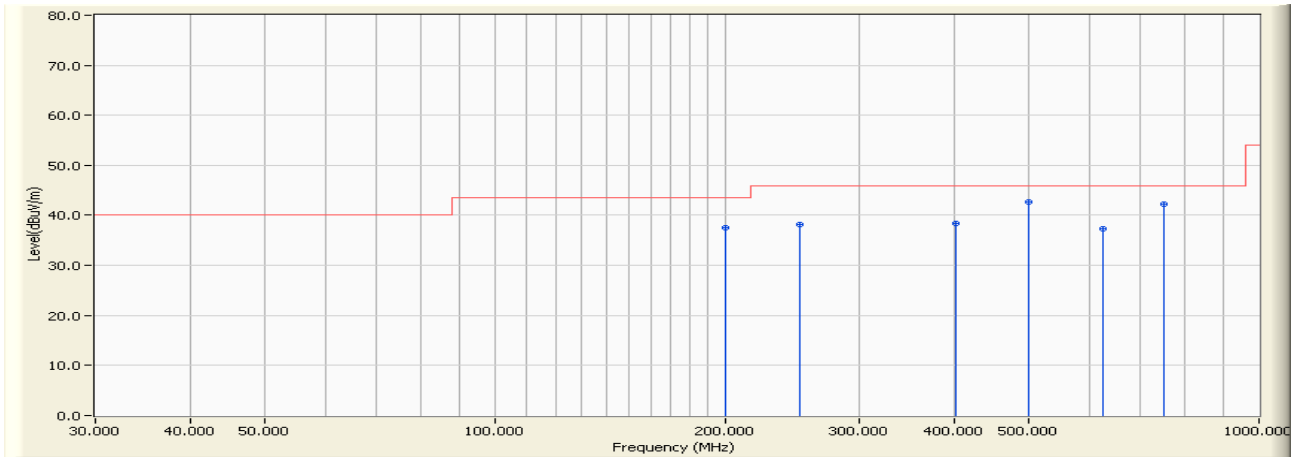


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	29.500	27.780	-26.220	54.000	AVERAGE	100.000	76.500
2	4910.000	3.720	35.700	39.420	-14.580	54.000	AVERAGE	106.500	74.300
3	* 7375.000	11.650	28.400	40.050	-13.950	54.000	AVERAGE	110.500	126.500

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:20
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

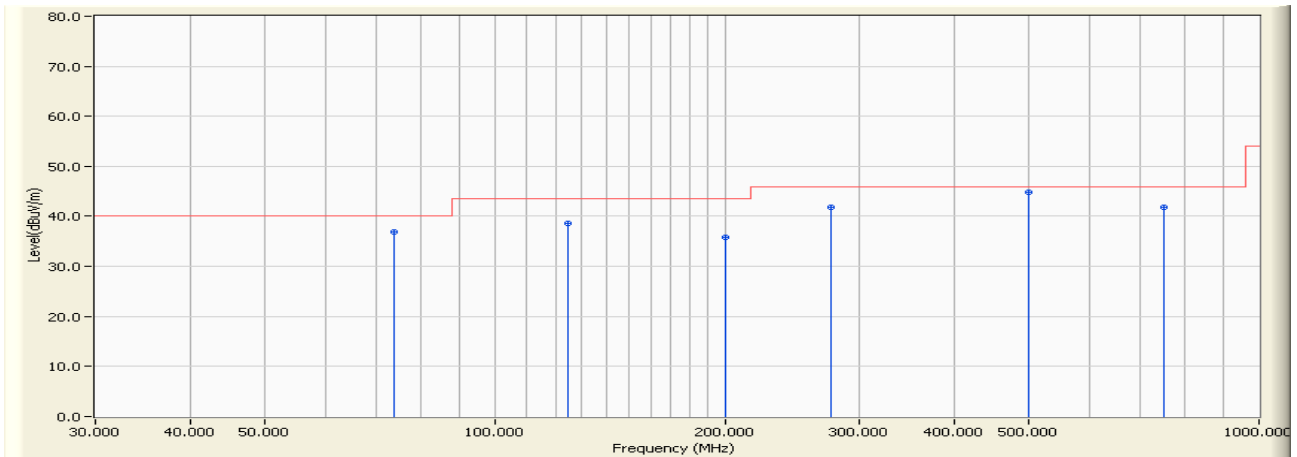


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	200.750	-12.784	50.300	37.517	-5.983	43.500	QUASIPeAK	106.200	75.400
2	250.675	-9.518	47.700	38.182	-7.818	46.000	QUASIPeAK	126.000	99.500
3	401.025	-5.010	43.300	38.290	-7.710	46.000	QUASIPeAK	140.000	125.000
4	* 500.500	-3.186	45.900	42.715	-3.285	46.000	QUASIPeAK	100.000	84.900
5	625.125	-1.103	38.500	37.397	-8.603	46.000	QUASIPeAK	203.000	77.900
6	750.250	0.128	42.100	42.228	-3.772	46.000	QUASIPeAK	114.000	82.300

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:23
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

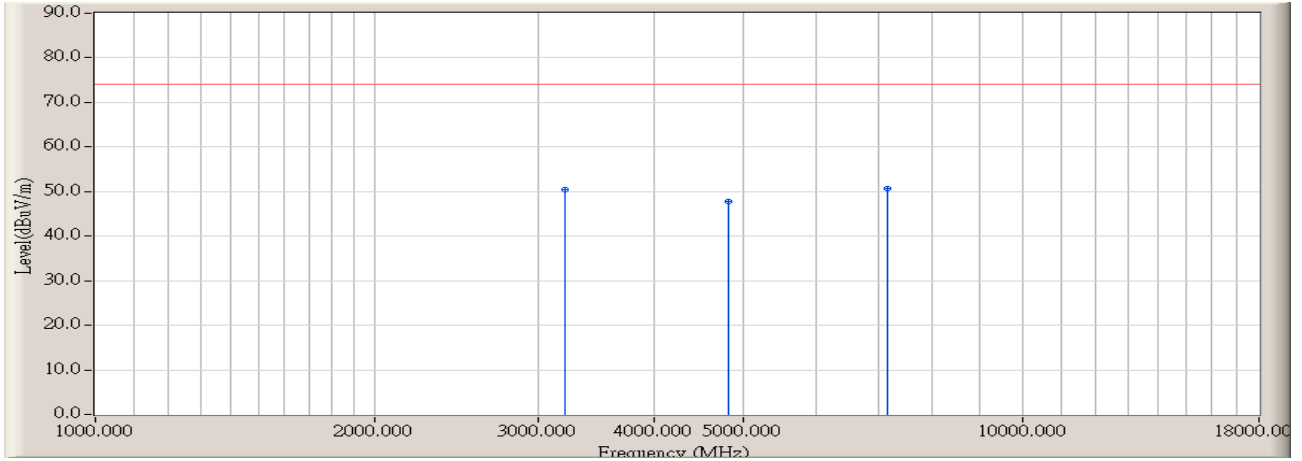


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	73.650	-16.253	53.200	36.947	-3.053	40.000	QUASIPeAK	100.000	36.400
2	124.750	-10.074	48.600	38.526	-4.974	43.500	QUASIPeAK	100.000	78.500
3	200.750	-12.784	48.600	35.817	-7.683	43.500	QUASIPeAK	106.300	105.000
4	275.125	-8.953	50.800	41.847	-4.153	46.000	QUASIPeAK	100.000	49.300
5	* 500.450	-3.182	48.000	44.818	-1.182	46.000	QUASIPeAK	100.000	116.900
6	750.250	0.128	41.600	41.728	-4.272	46.000	QUASIPeAK	100.000	244.500

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:44
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

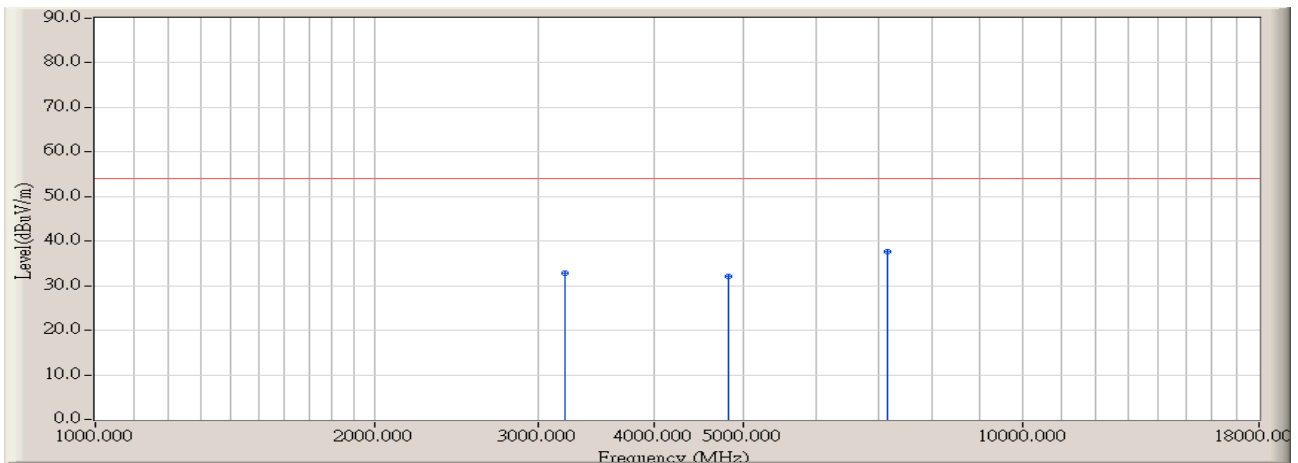


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	51.819	50.329	-23.671	74.000	PEAK	146.200	101.700
2	4825.000	3.610	44.142	47.752	-26.248	74.000	PEAK	113.500	46.300
3	* 7148.333	13.013	37.617	50.630	-23.370	74.000	PEAK	133.500	93.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:44
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

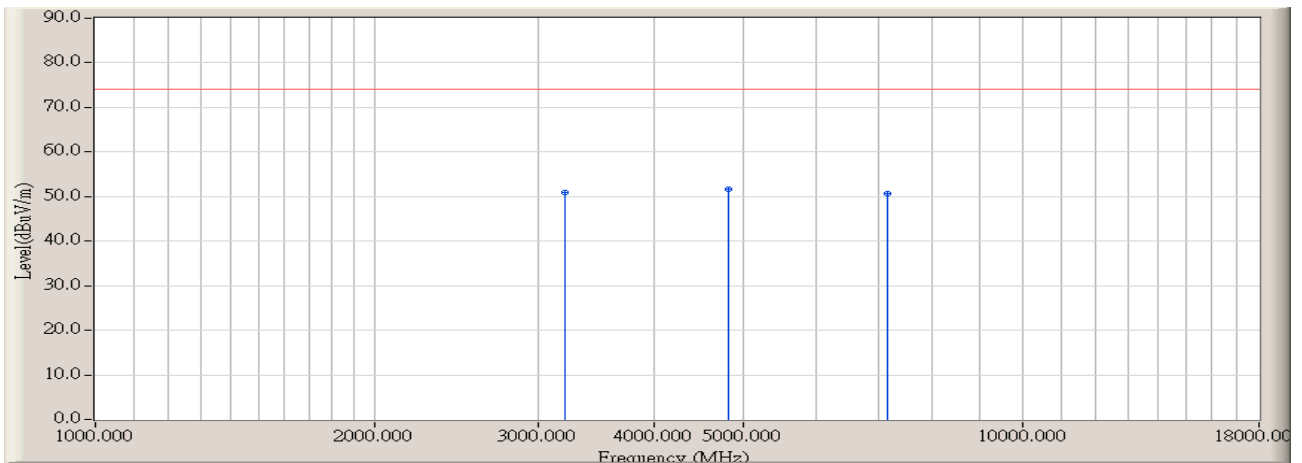


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	34.200	32.710	-21.290	54.000	AVERAGE	146.200	101.700
2	4825.000	3.610	28.500	32.110	-21.890	54.000	AVERAGE	113.500	46.300
3	* 7148.333	13.013	24.600	37.613	-16.387	54.000	AVERAGE	133.500	93.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:47
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

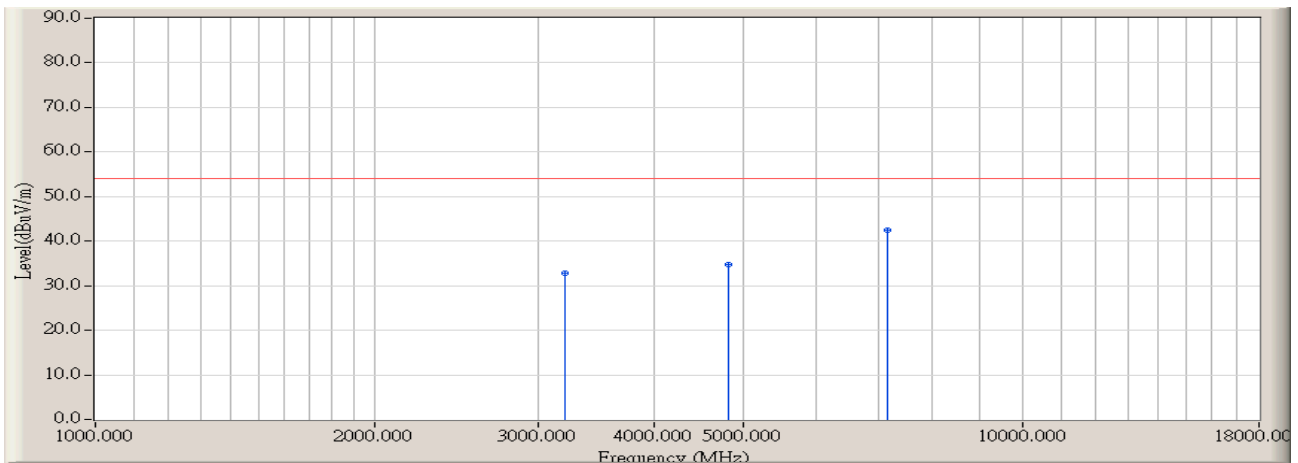


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	52.360	50.870	-23.130	74.000	PEAK	100.000	77.400
2	* 4825.000	3.610	48.140	51.750	-22.250	74.000	PEAK	112.500	92.400
3	7148.333	13.013	37.542	50.555	-23.445	74.000	PEAK	100.000	46.800

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:47
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

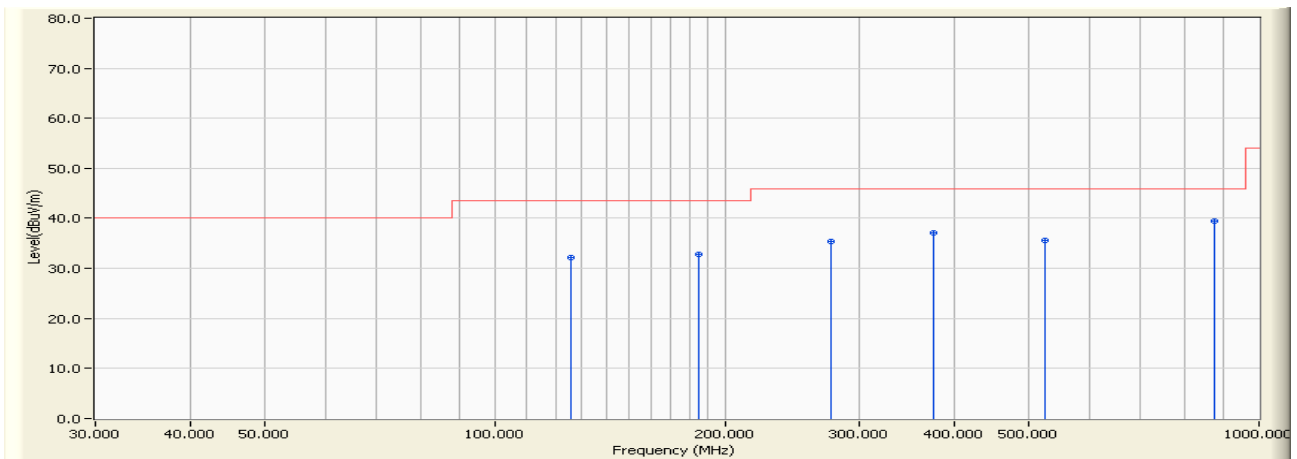


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-1.490	34.400	32.910	-21.090	54.000	AVERAGE	100.000	77.400
2	4825.000	3.610	31.200	34.810	-19.190	54.000	AVERAGE	112.500	92.400
3	* 7148.333	13.013	29.400	42.413	-11.587	54.000	AVERAGE	100.000	46.800

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:28
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

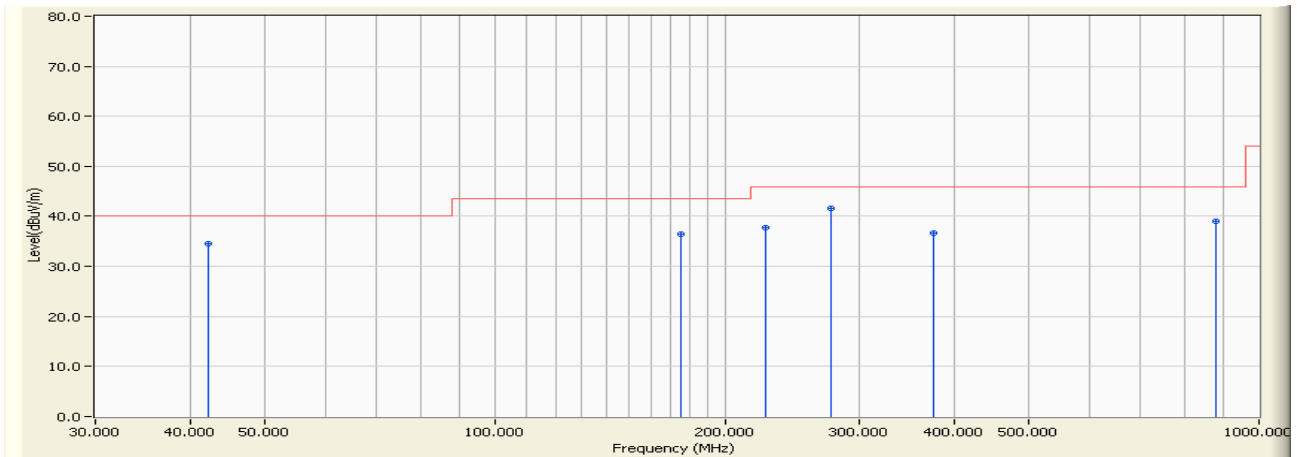


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	125.750	-10.087	42.300	32.213	-11.287	43.500	QUASPEAK	201.000	74.600
2	185.200	-13.097	45.900	32.803	-10.697	43.500	QUASPEAK	312.600	95.400
3	275.250	-8.950	44.400	35.450	-10.550	46.000	QUASPEAK	135.700	65.800
4	374.750	-5.986	43.100	37.114	-8.886	46.000	QUASPEAK	100.000	93.800
5	525.750	-2.732	38.400	35.669	-10.331	46.000	QUASPEAK	185.000	49.000
6	* 875.650	0.663	38.700	39.362	-6.638	46.000	QUASPEAK	109.500	215.700

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:31
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

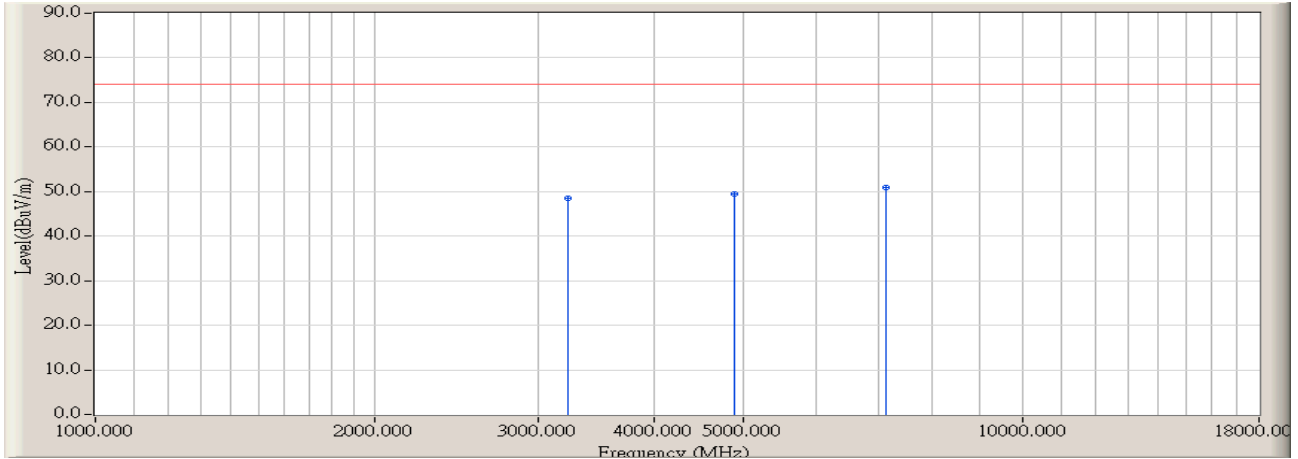


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	42.250	-11.299	45.800	34.501	-5.499	40.000	QUASIPeAK	100.000	62.900
2	175.500	-12.863	49.300	36.437	-7.063	43.500	QUASIPeAK	112.600	84.900
3	226.250	-12.503	50.200	37.697	-8.303	46.000	QUASIPeAK	100.000	253.900
4	* 275.525	-8.947	50.500	41.553	-4.447	46.000	QUASIPeAK	100.000	169.400
5	375.350	-5.996	42.700	36.704	-9.296	46.000	QUASIPeAK	100.000	354.000
6	876.250	0.648	38.300	38.947	-7.053	46.000	QUASIPeAK	100.000	115.900

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:50
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

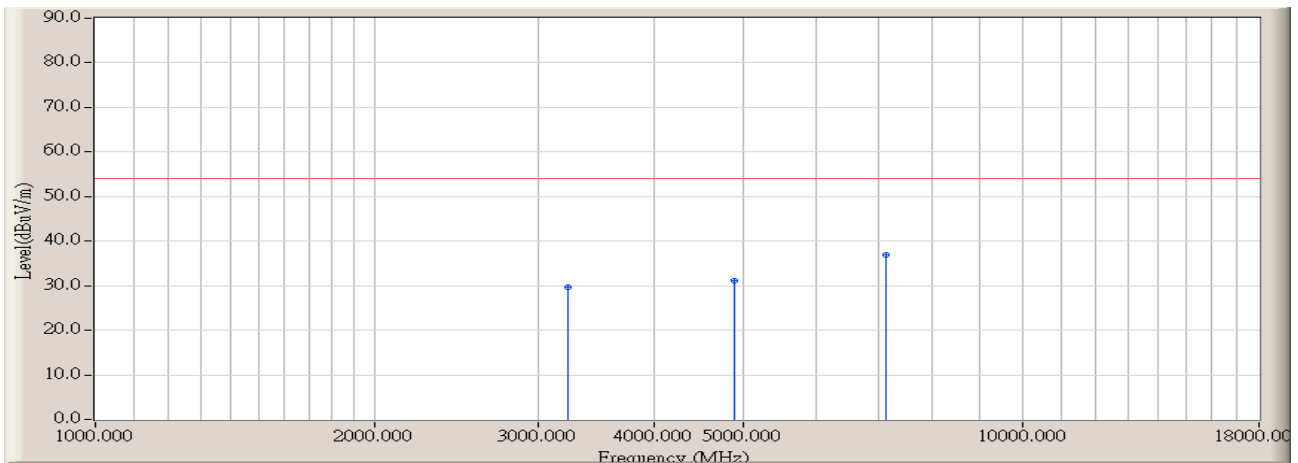


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	50.354	48.611	-25.389	74.000	PEAK	130.000	47.500
2	4881.667	3.633	45.894	49.527	-24.473	74.000	PEAK	105.000	99.200
3	* 7120.000	12.580	38.350	50.930	-23.070	74.000	PEAK	100.000	226.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:50
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

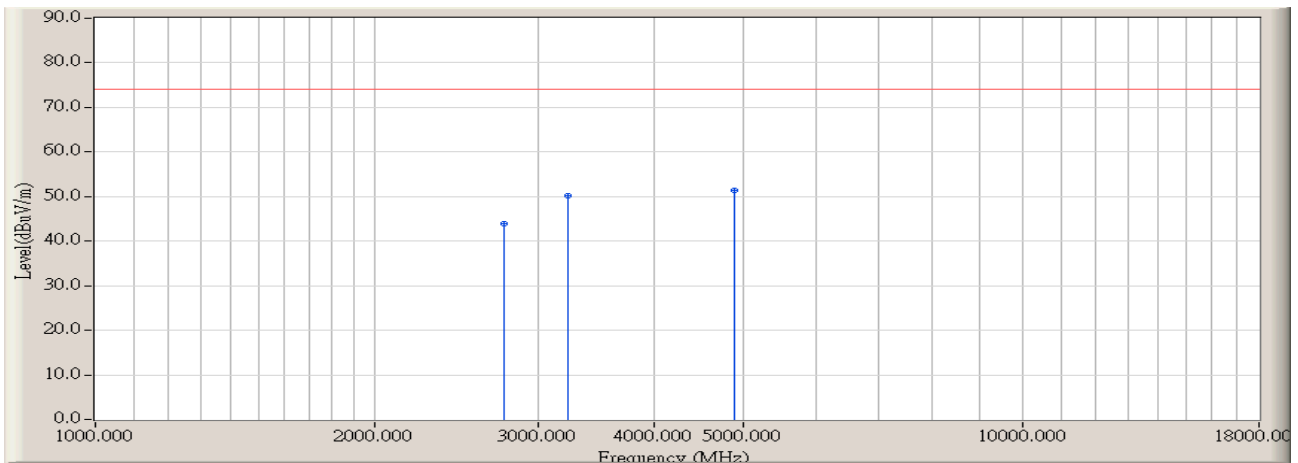


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.743	31.400	29.657	-24.343	54.000	AVERAGE	130.000	47.500
2	4881.667	3.633	27.500	31.133	-22.867	54.000	AVERAGE	105.000	99.200
3	* 7120.000	12.580	24.300	36.880	-17.120	54.000	AVERAGE	100.000	226.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:53
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

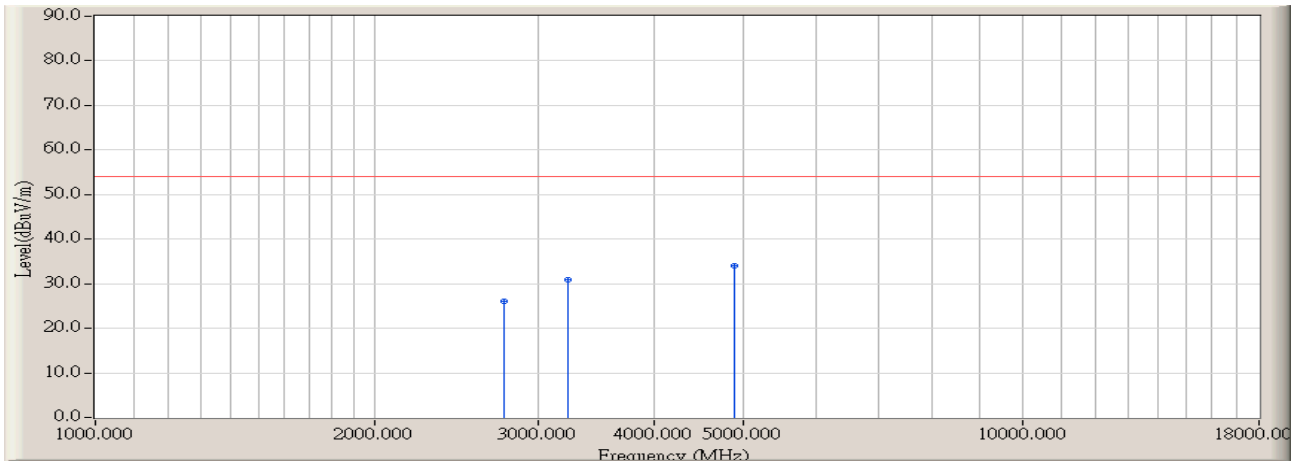


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2756.667	-2.494	46.357	43.864	-30.136	74.000	PEAK	100.000	93.000
2	3238.333	-1.743	51.956	50.213	-23.787	74.000	PEAK	100.000	112.400
3	* 4881.667	3.633	47.819	51.452	-22.548	74.000	PEAK	100.000	136.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:53
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

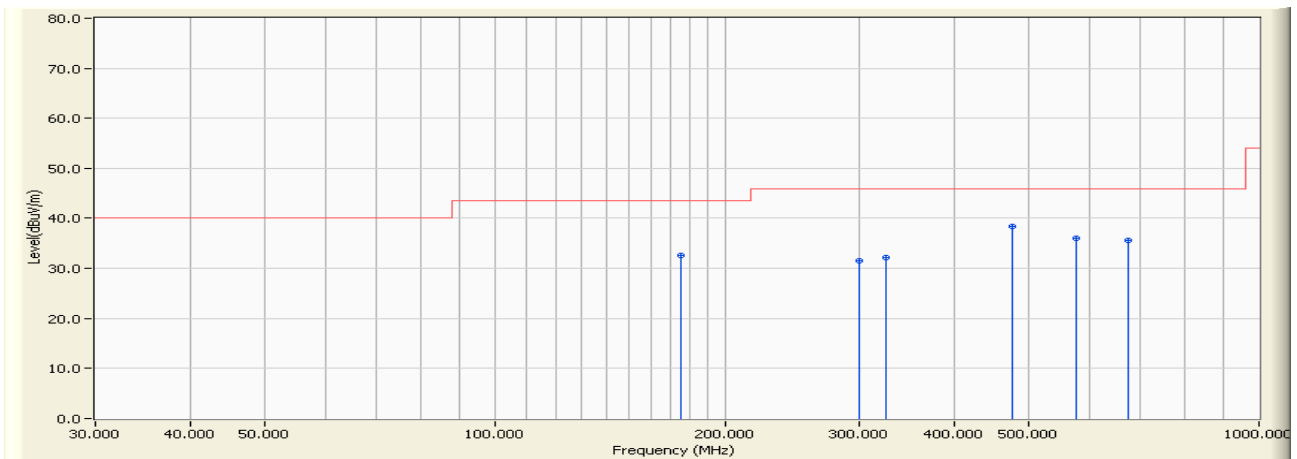


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2756.667	-2.494	28.600	26.107	-27.893	54.000	AVERAGE	100.000	93.000
2	3238.333	-1.743	32.700	30.957	-23.043	54.000	AVERAGE	100.000	112.400
3	* 4881.667	3.633	30.400	34.033	-19.967	54.000	AVERAGE	100.000	136.400

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:35
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

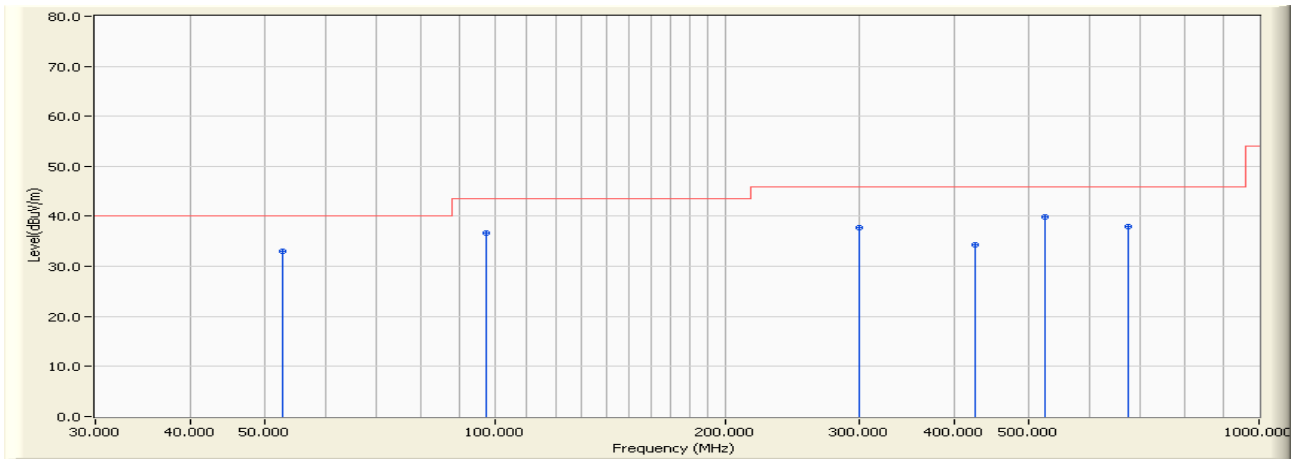


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	175.500	-12.863	45.400	32.537	-10.963	43.500	QUASIPeAK	133.400	76.900
2	300.175	-8.479	39.900	31.421	-14.579	46.000	QUASIPeAK	206.000	146.000
3	325.585	-7.603	39.800	32.198	-13.802	46.000	QUASIPeAK	175.600	49.000
4	* 476.250	-3.446	41.800	38.355	-7.645	46.000	QUASIPeAK	203.000	116.900
5	575.750	-1.482	37.600	36.117	-9.883	46.000	QUASIPeAK	100.000	94.600
6	675.500	-0.681	36.300	35.620	-10.380	46.000	QUASIPeAK	114.800	71.900

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/05 - 10:38
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

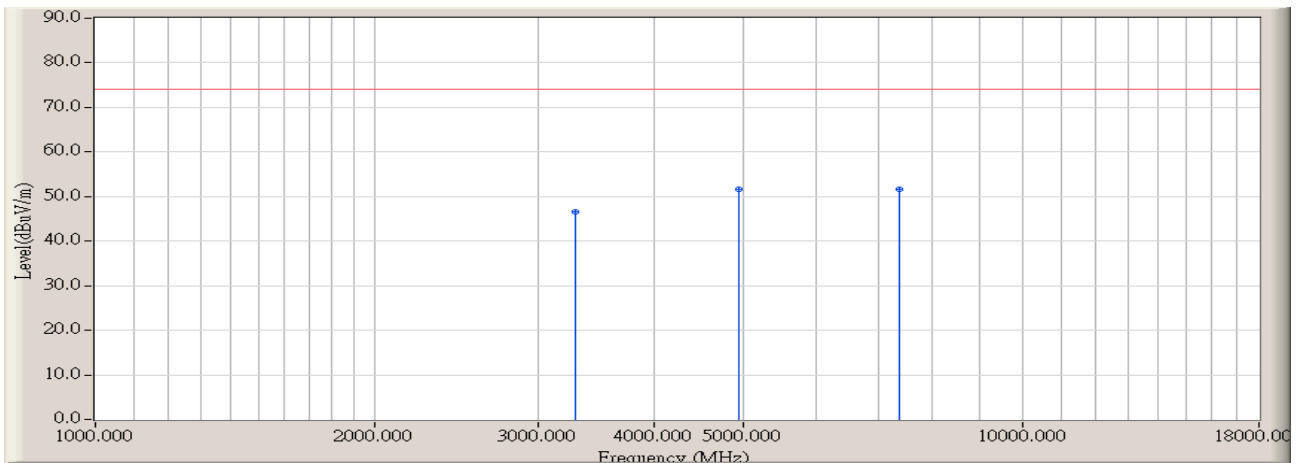


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	52.825	-15.387	48.500	33.113	-6.887	40.000	QUASIPeAK	100.000	44.800
2	97.250	-11.889	48.500	36.610	-6.890	43.500	QUASIPeAK	100.000	46.600
3	300.175	-8.479	46.300	37.821	-8.179	46.000	QUASIPeAK	122.800	136.500
4	425.275	-4.412	38.700	34.288	-11.712	46.000	QUASIPeAK	112.900	326.000
5	* 524.700	-2.726	42.700	39.974	-6.026	46.000	QUASIPeAK	100.000	106.600
6	675.050	-0.654	38.600	37.946	-8.054	46.000	QUASIPeAK	105.000	92.600

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:57
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

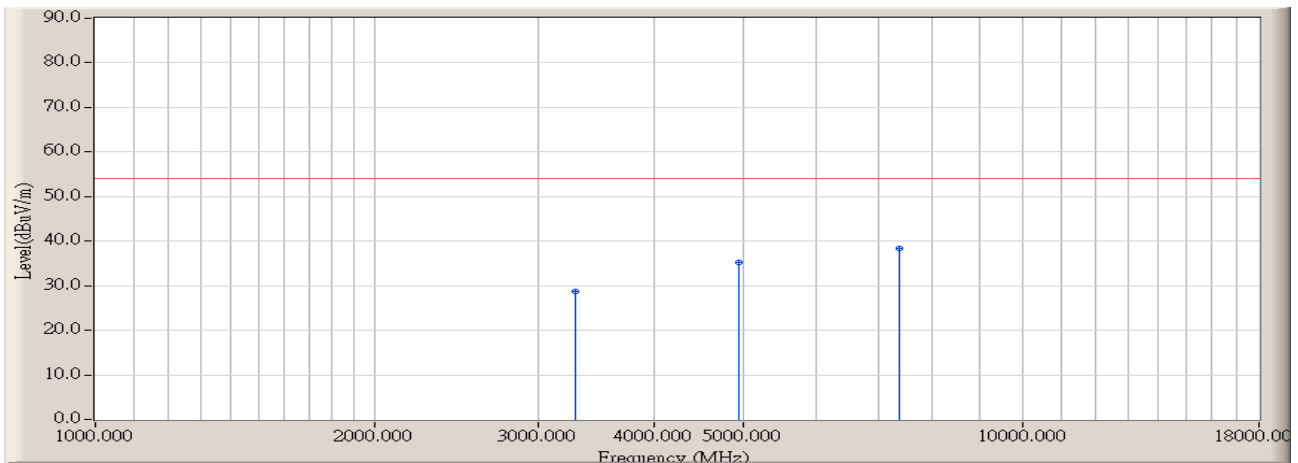


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	48.250	46.530	-27.470	74.000	PEAK	147.500	119.000
2	4938.333	4.046	47.582	51.629	-22.371	74.000	PEAK	115.400	66.800
3	* 7375.000	11.650	40.078	51.728	-22.272	74.000	PEAK	152.000	99.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 16:57
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

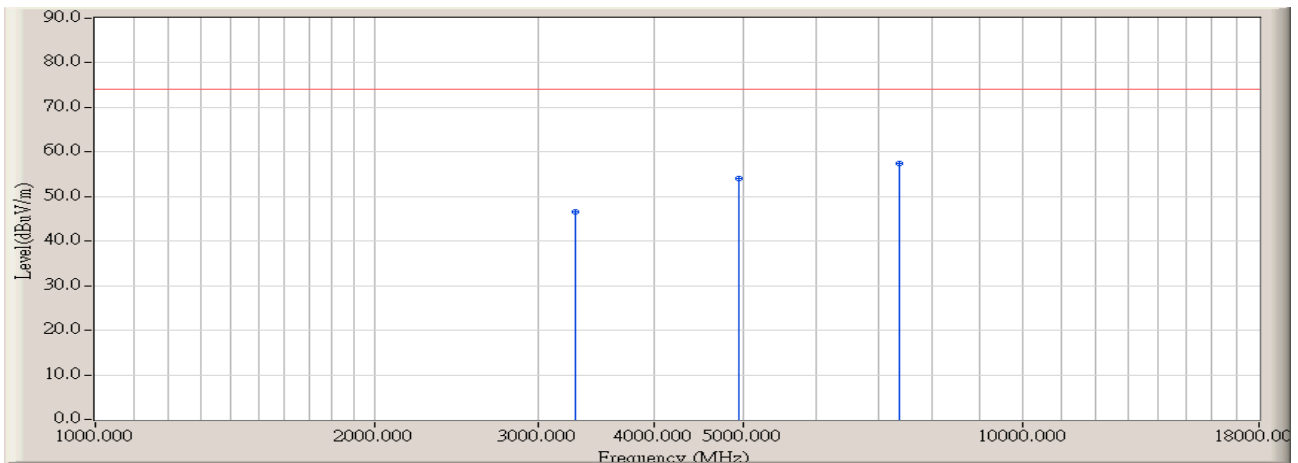


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	30.500	28.780	-25.220	54.000	AVERAGE	147.500	119.000
2	4938.333	4.046	31.200	35.247	-18.753	54.000	AVERAGE	115.400	66.800
3	* 7375.000	11.650	26.700	38.350	-15.650	54.000	AVERAGE	152.000	99.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 17:00
Limit : FCC_B_(Above_1G)_3M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

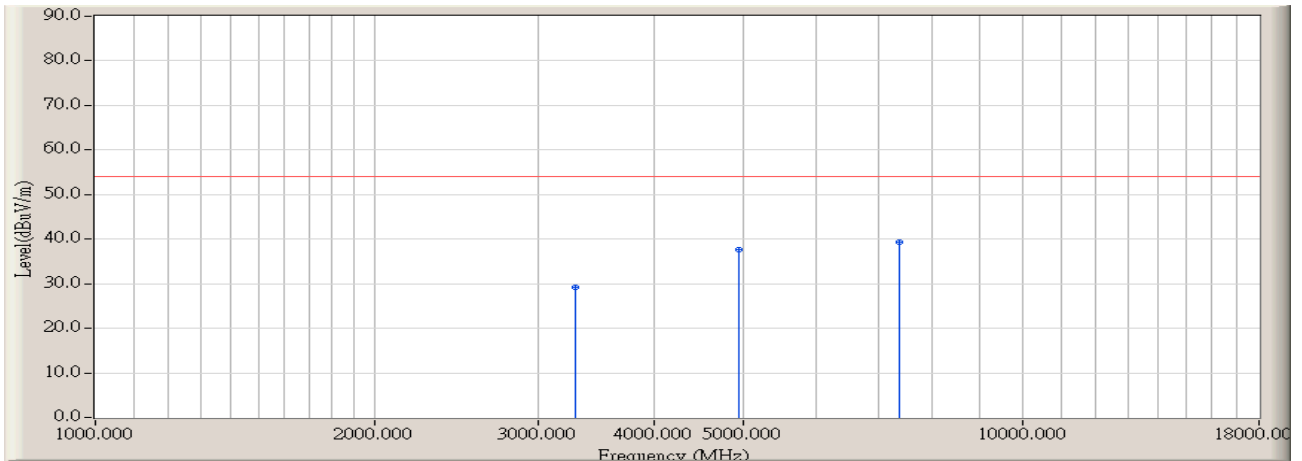


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	48.349	46.629	-27.371	74.000	PEAK	100.000	75.300
2	4938.333	4.046	50.024	54.071	-19.929	74.000	PEAK	104.000	113.500
3	* 7375.000	11.650	45.804	57.454	-16.546	74.000	PEAK	100.000	211.500

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/10 - 17:00
Limit : FCC_B_(Above_1G)_3M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.720	30.900	29.180	-24.820	54.000	AVERAGE	100.000	75.300
2	4938.333	4.046	33.700	37.747	-16.253	54.000	AVERAGE	104.000	113.500
3	* 7375.000	11.650	27.600	39.250	-14.750	54.000	AVERAGE	100.000	211.500

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

5. RF Antenna Conducted Spurious

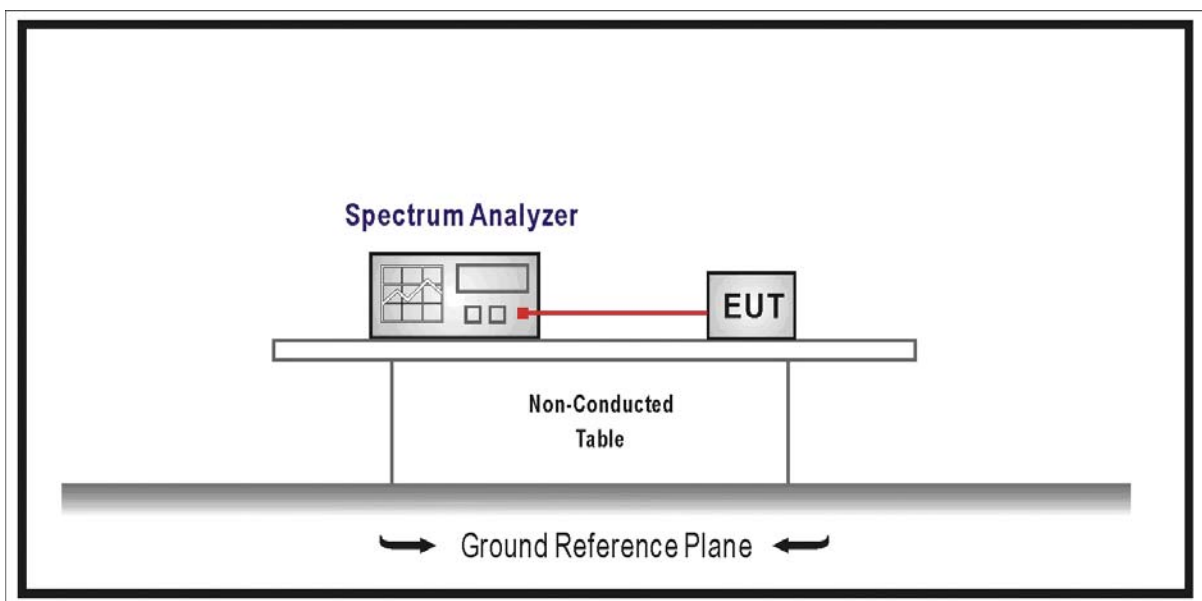
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

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.

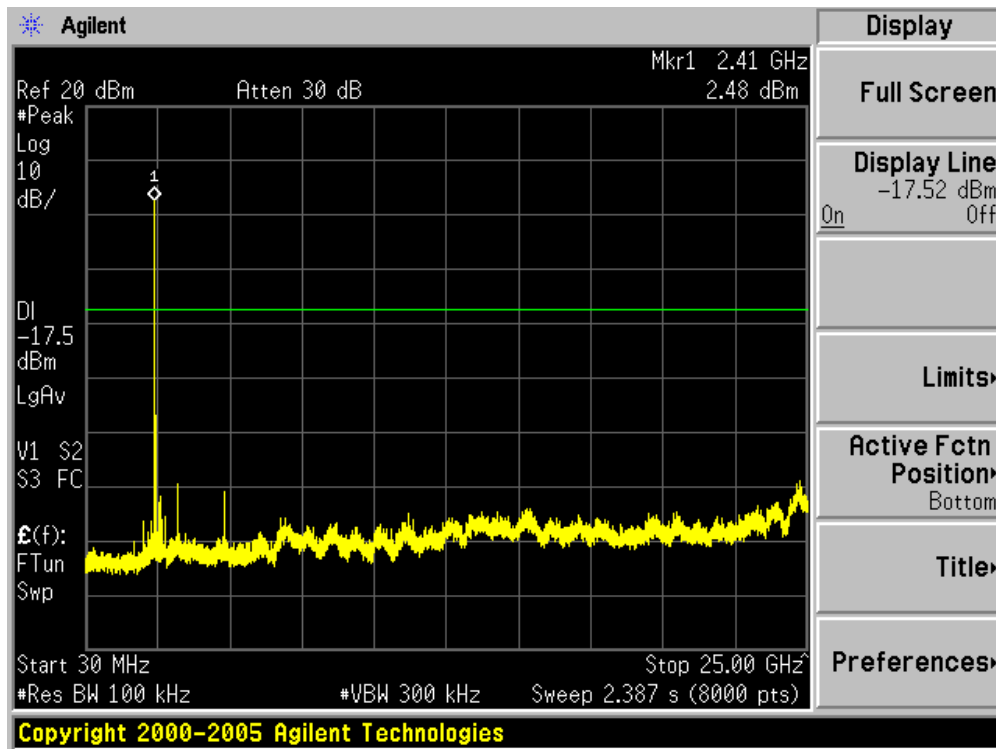
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

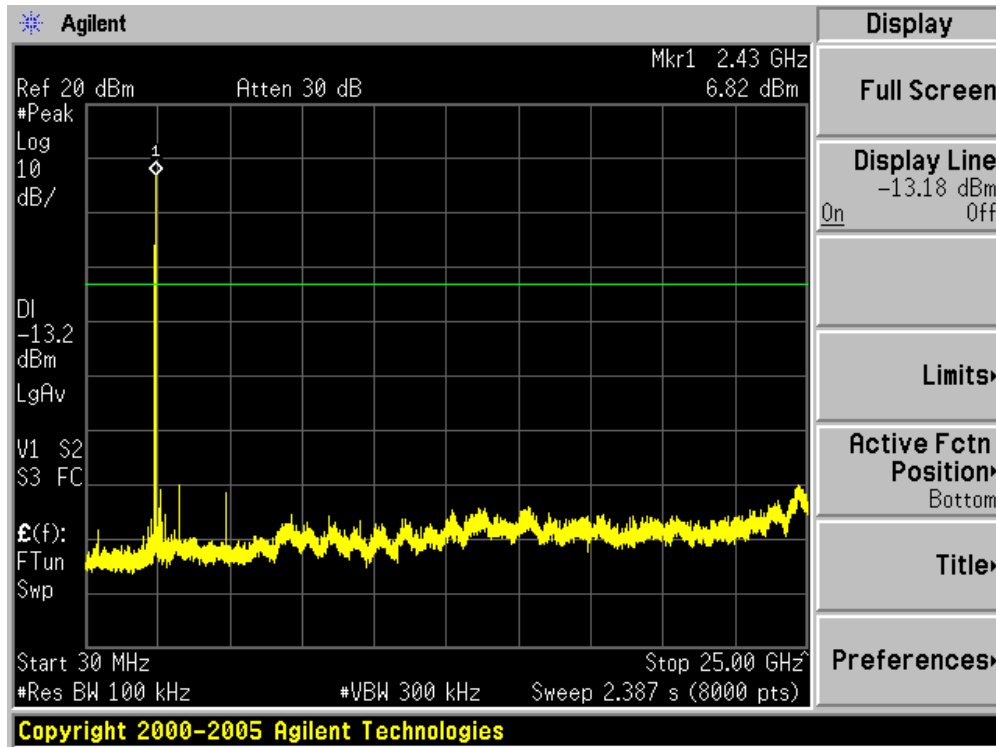
5.6. Test Result

Product	:	NETPASSAGE WPE53G
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

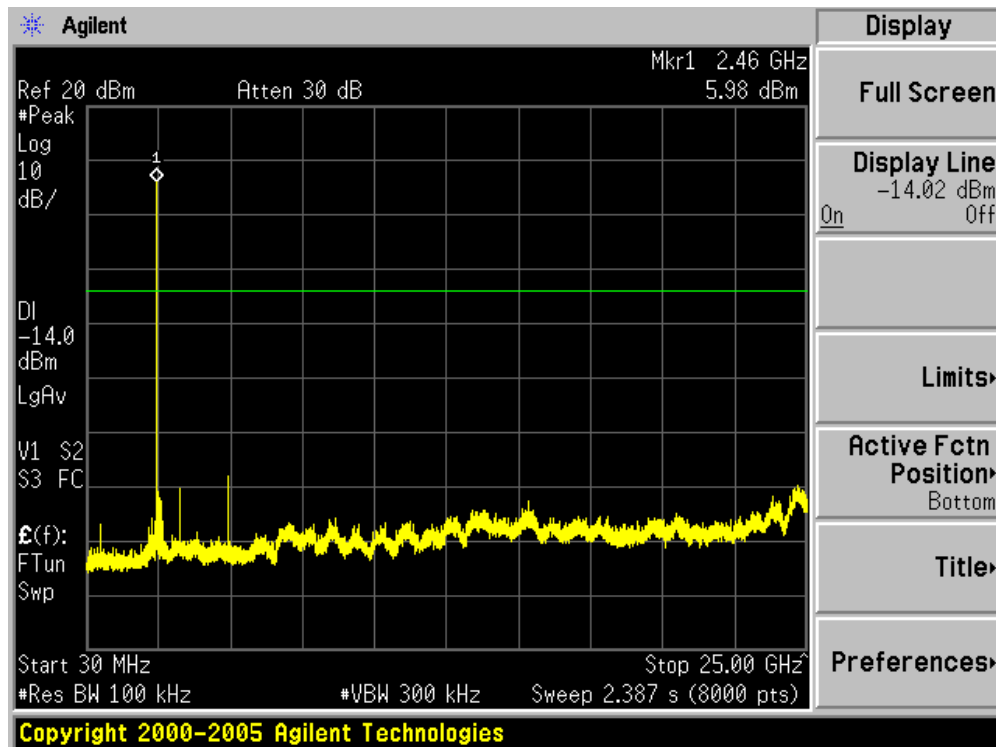
Channel 01 (2412MHz)



Channel 06 (2437MHz)

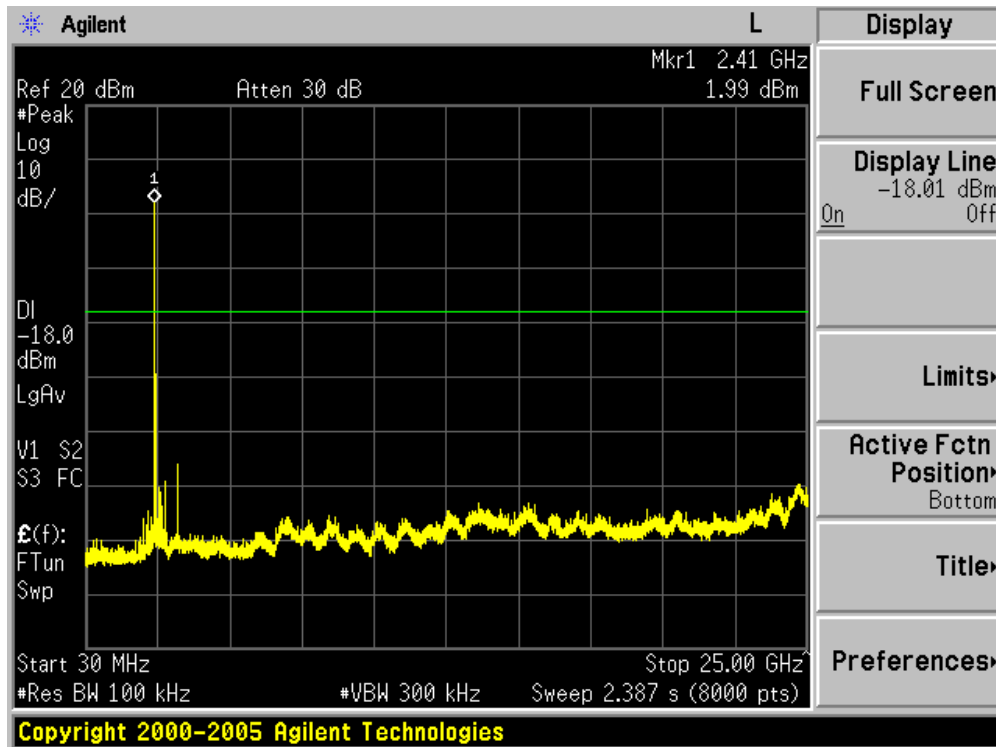


Channel 11 (2462MHz)

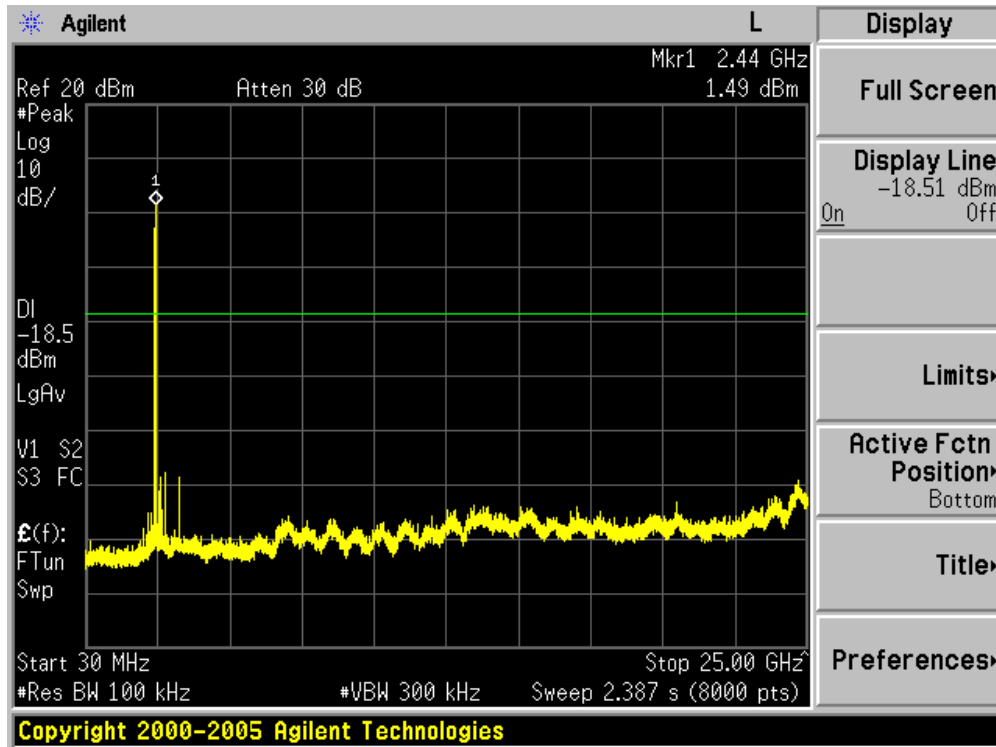


Product	:	NETPASSAGE WPE53G
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

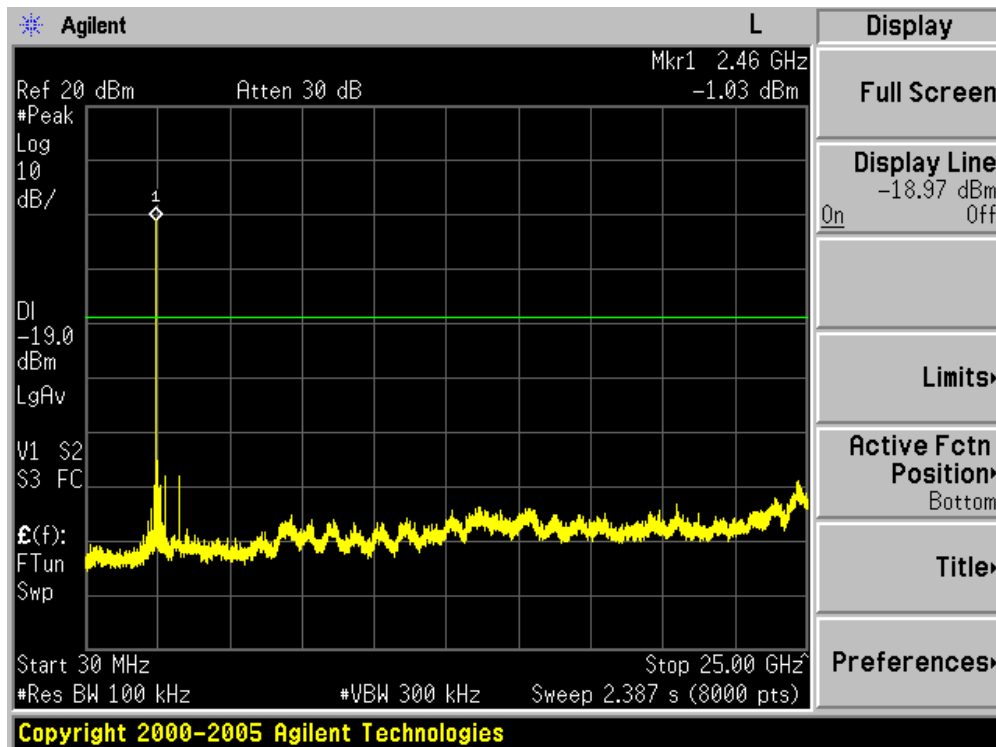
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission Band Edge / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2007/03/31

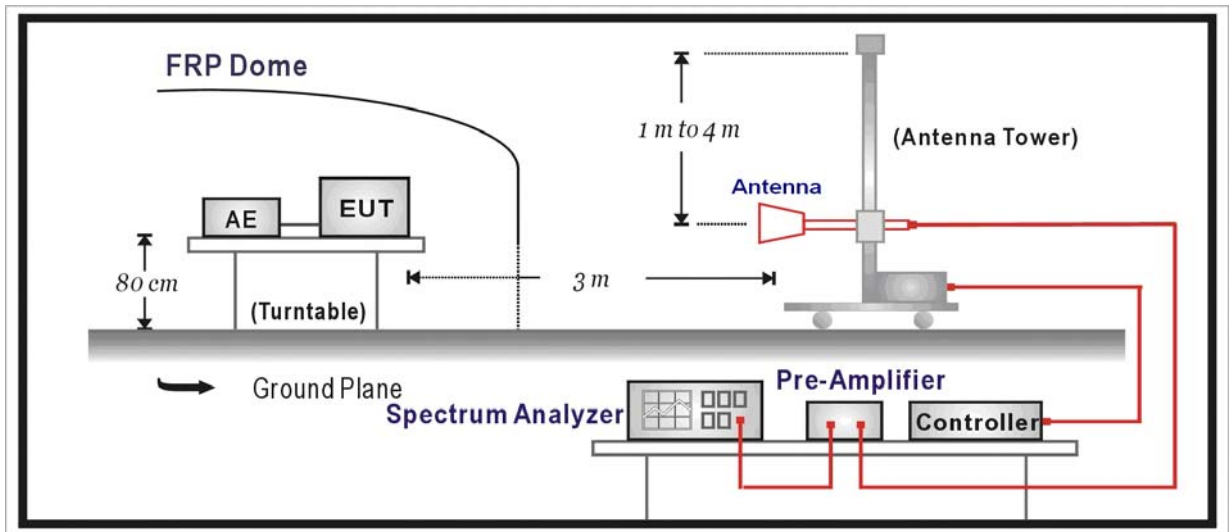
Radiated Emission Band Edge / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2007/03/31

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

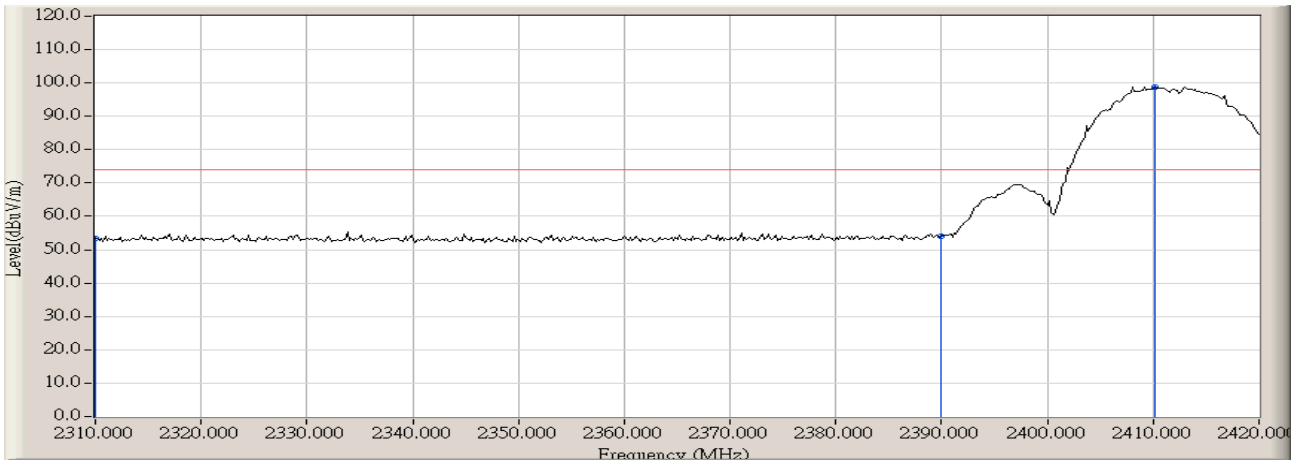
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum 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 : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

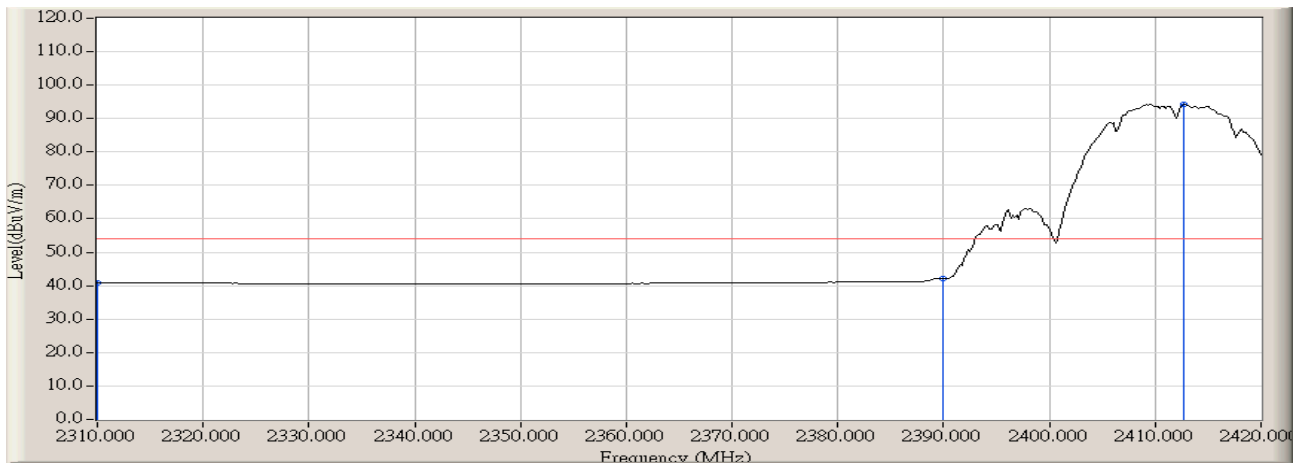


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	56.629	53.368	-20.602	73.970	PEAK
2		2390.000	-3.202	57.391	54.189	-19.781	73.970	PEAK
3	*	2410.100	-3.208	102.106	98.897	24.927	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:15
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

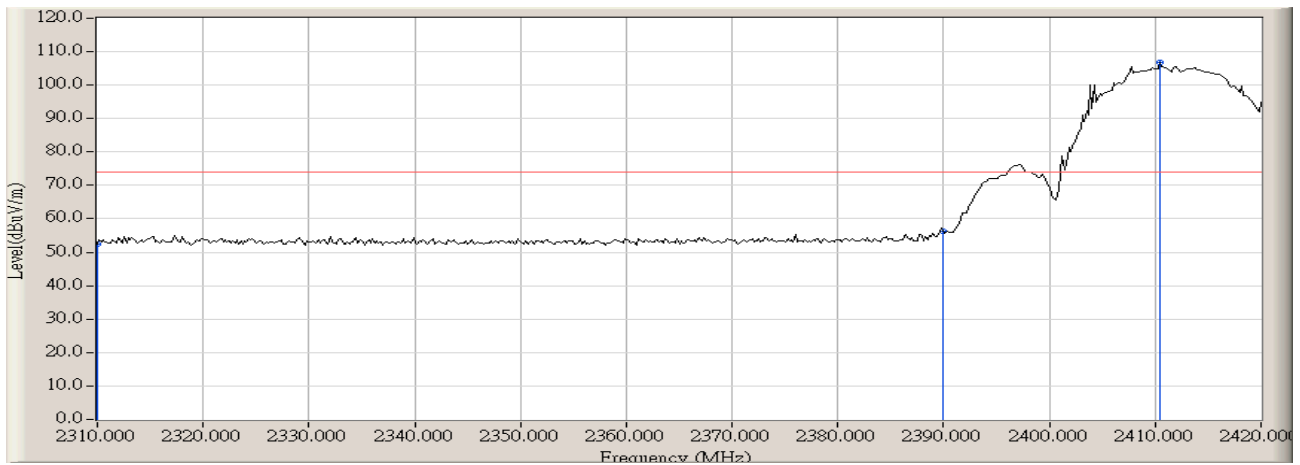


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.151	40.890	-13.080	53.970	AVERAGE
2	2390.000	-3.202	45.251	42.049	-11.921	53.970	AVERAGE
3	* 2412.667	-3.214	97.370	94.156	40.186	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	55.646	52.385	-21.585	73.970	PEAK
2		2390.000	-3.202	59.486	56.284	-17.686	73.970	PEAK
3	*	2410.467	-3.210	110.025	106.816	32.846	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

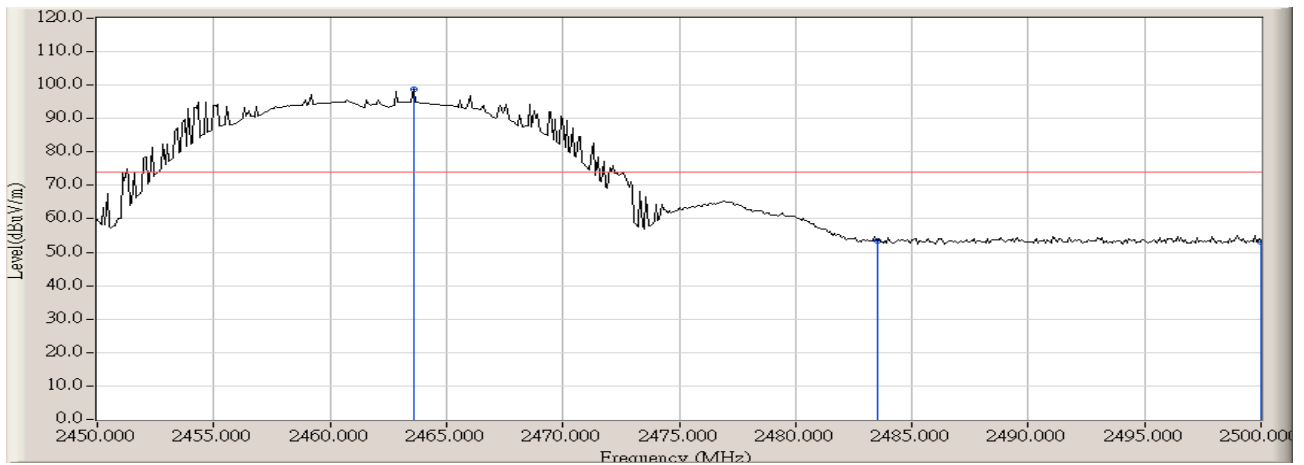


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	44.204	40.943	-13.027	53.970	AVERAGE
2		2390.000	-3.202	47.187	43.985	-9.985	53.970	AVERAGE
3	*	2409.367	-3.208	104.272	101.064	47.094	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

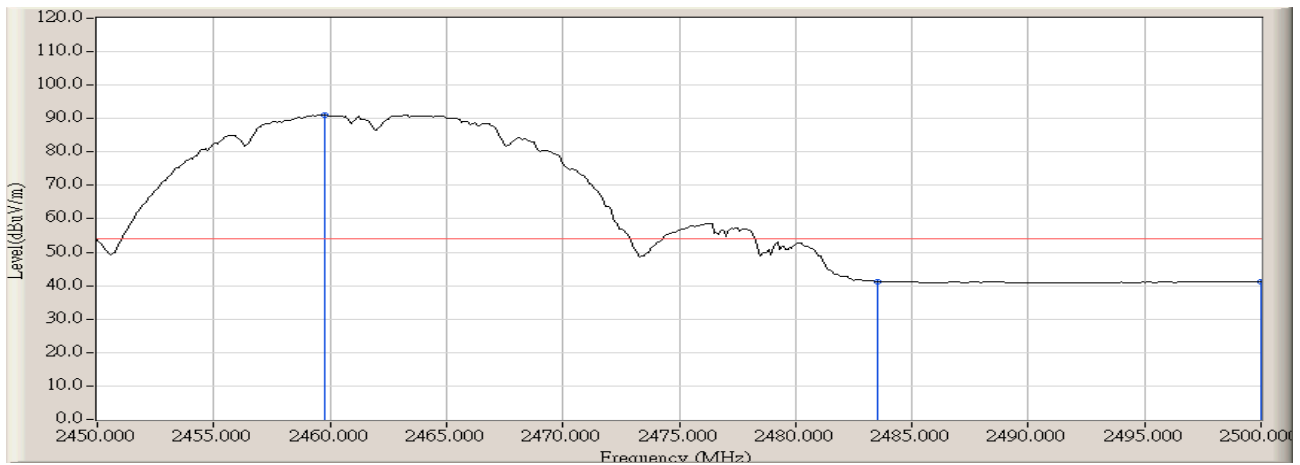


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.583	-3.253	101.882	98.629	24.659	73.970	PEAK
2		2483.500	-3.177	56.428	53.251	-20.719	73.970	PEAK
3		2500.000	-3.135	56.259	53.124	-20.846	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

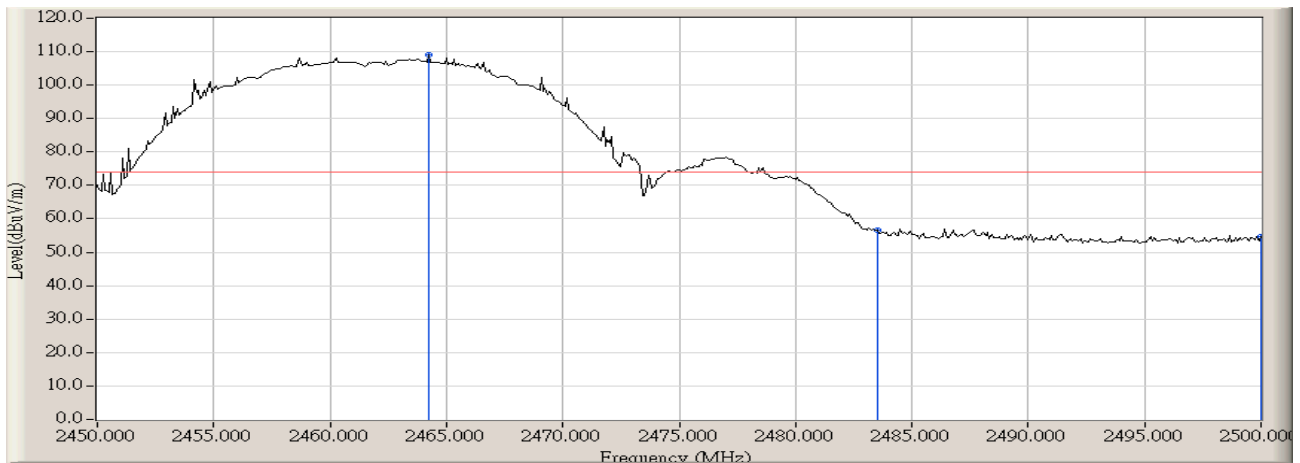


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.750	-3.265	94.336	91.071	37.101	53.970	AVERAGE
2		2483.500	-3.177	44.431	41.254	-12.716	53.970	AVERAGE
3		2500.000	-3.135	44.234	41.099	-12.871	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

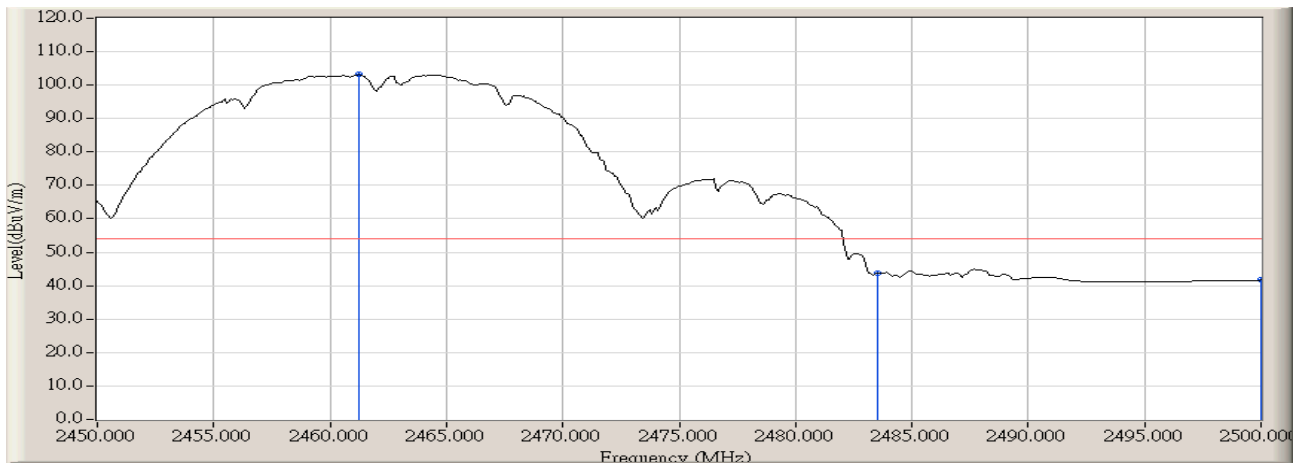


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.250	-3.251	112.368	109.117	35.147	73.970	PEAK
2		2483.500	-3.177	59.850	56.673	-17.297	73.970	PEAK
3		2500.000	-3.135	57.794	54.659	-19.311	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

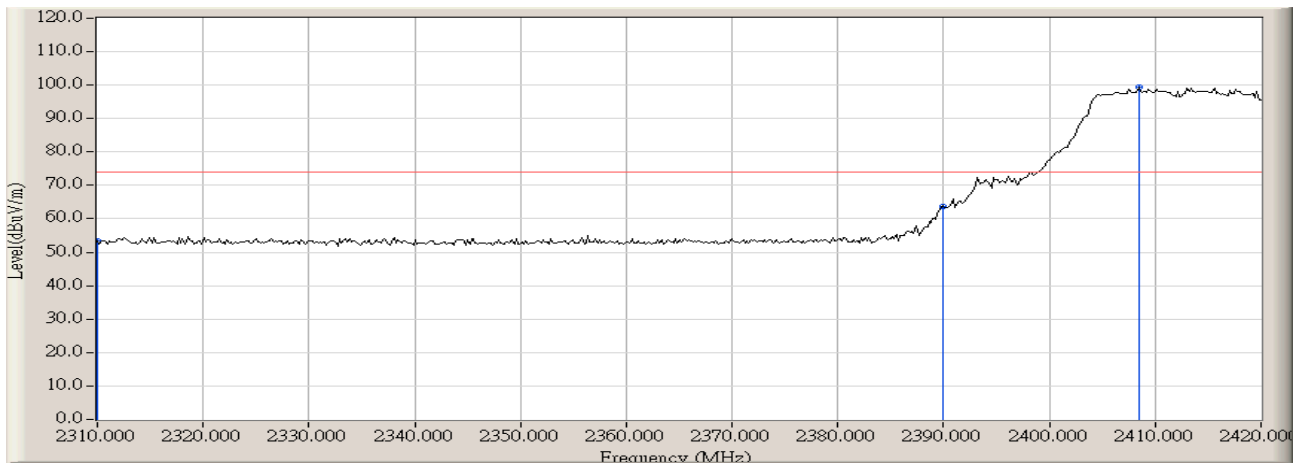


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.250	-3.261	106.380	103.118	49.148	53.970	AVERAGE
2		2483.500	-3.177	46.873	43.696	-10.274	53.970	AVERAGE
3		2500.000	-3.135	44.809	41.674	-12.296	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	56.638	53.377	-20.593	73.970	PEAK
2	2390.000	-3.202	66.980	63.778	-10.192	73.970	PEAK
3	* 2408.450	-3.206	102.466	99.259	25.289	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

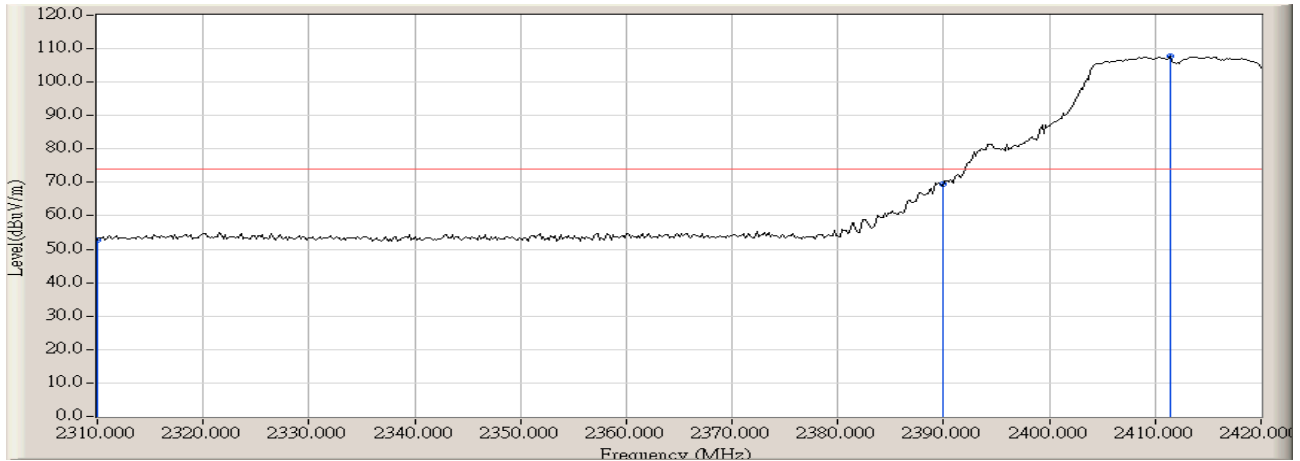


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.166	40.905	-13.065	53.970	AVERAGE
2	2390.000	-3.202	47.502	44.300	-9.670	53.970	AVERAGE
3	* 2407.167	-3.206	89.049	85.844	31.874	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	56.109	52.848	-21.122	73.970	PEAK
2		2390.000	-3.202	72.711	69.509	-4.461	73.970	PEAK
3	*	2411.383	-3.211	110.998	107.787	33.817	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

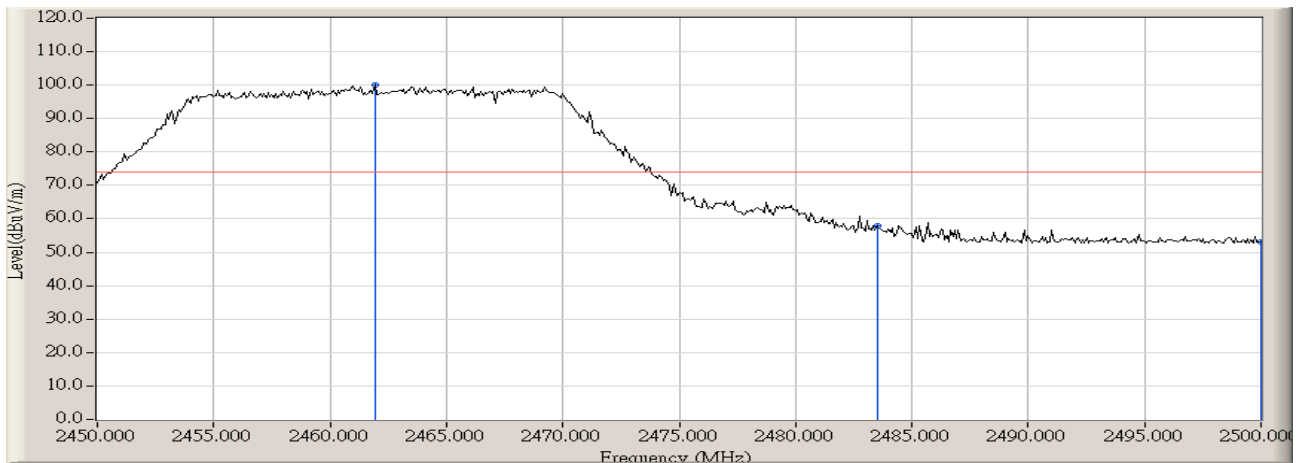


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.280	41.019	-12.951	53.970	AVERAGE
2	2390.000	-3.202	53.290	50.088	-3.882	53.970	AVERAGE
3	* 2411.017	-3.210	97.146	93.936	39.966	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

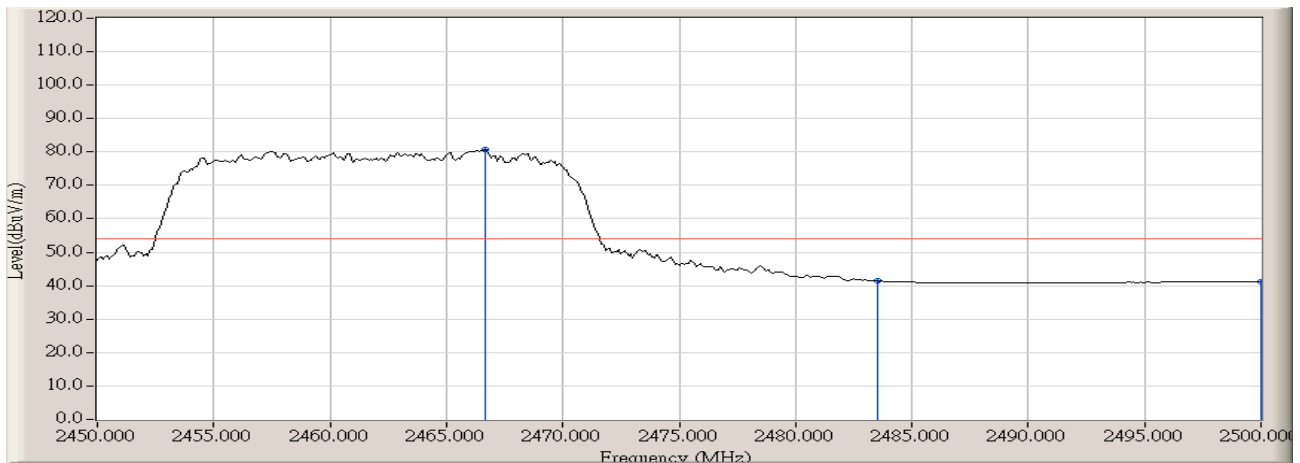


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.917	-3.260	103.470	100.210	26.240	73.970	PEAK
2		2483.500	-3.177	61.161	57.984	-15.986	73.970	PEAK
3		2500.000	-3.135	56.241	53.106	-20.864	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 15:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

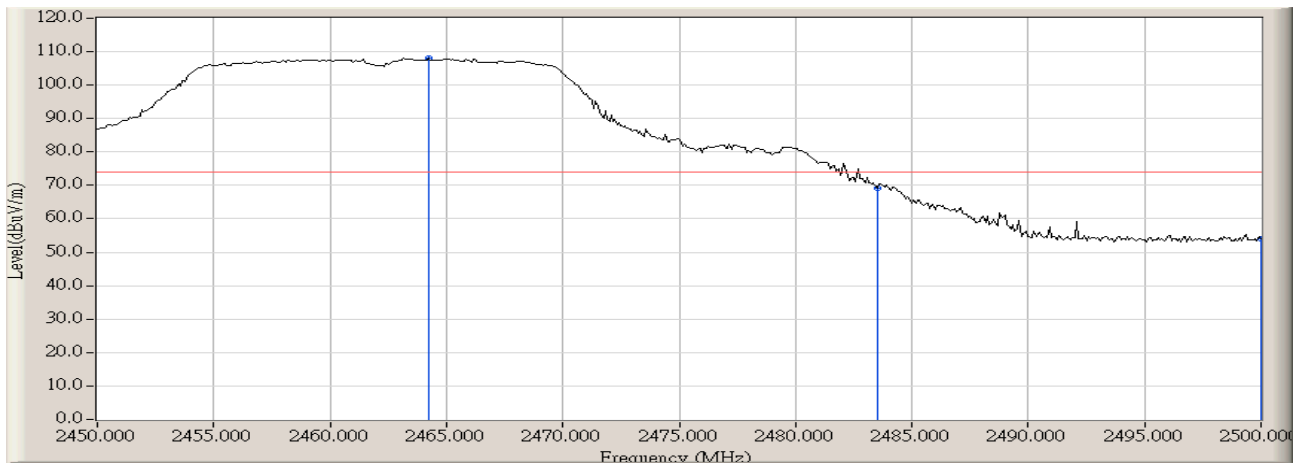


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.667	-3.241	83.831	80.590	26.620	53.970	AVERAGE
2		2483.500	-3.177	44.571	41.394	-12.576	53.970	AVERAGE
3		2500.000	-3.135	44.248	41.113	-12.857	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 16:01
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

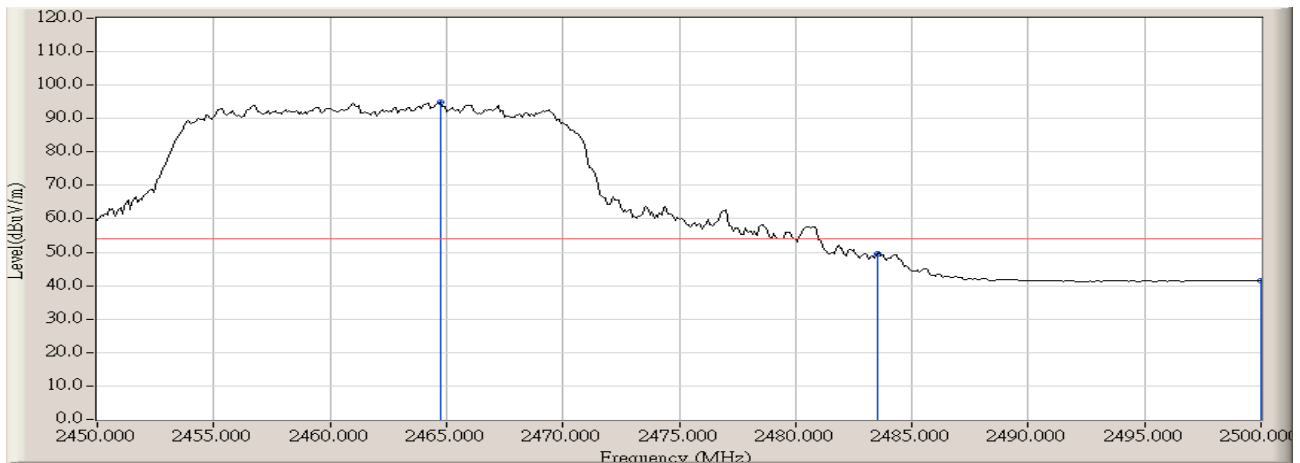


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.250	-3.251	111.369	108.118	34.148	73.970	PEAK
2		2483.500	-3.177	72.333	69.156	-4.814	73.970	PEAK
3		2500.000	-3.135	57.058	53.923	-20.047	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/02/28 - 16:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE WPE53G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.750	-3.249	98.147	94.898	40.928	53.970	AVERAGE
2		2483.500	-3.177	52.592	49.415	-4.555	53.970	AVERAGE
3		2500.000	-3.135	44.636	41.501	-12.469	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

7. Operation Frequency Range of 20dB Bandwidth

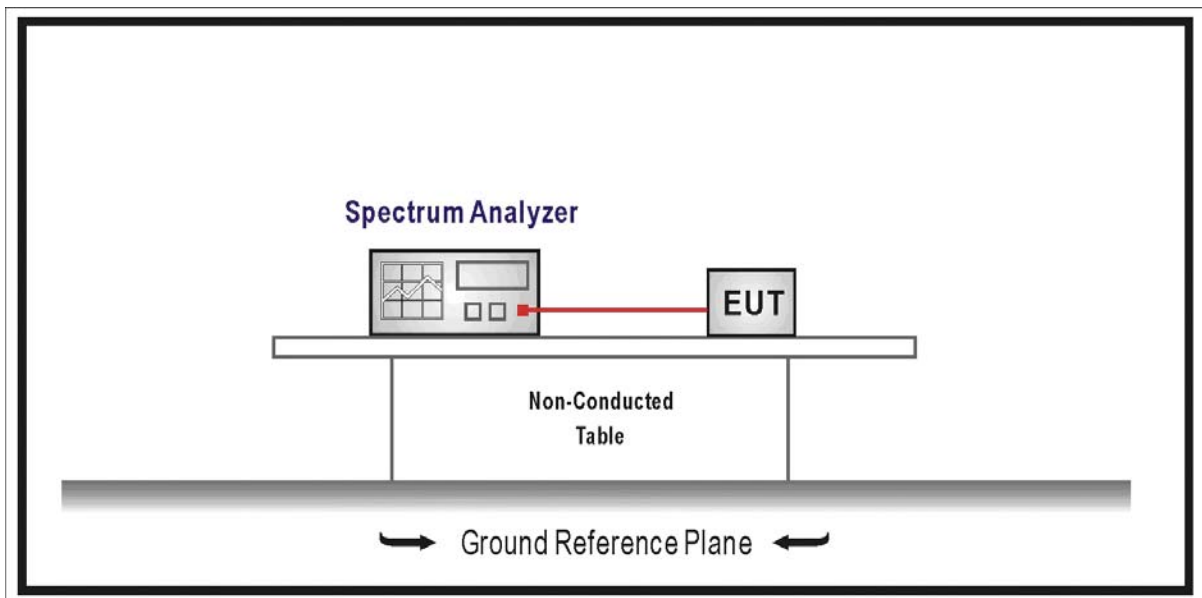
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

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.

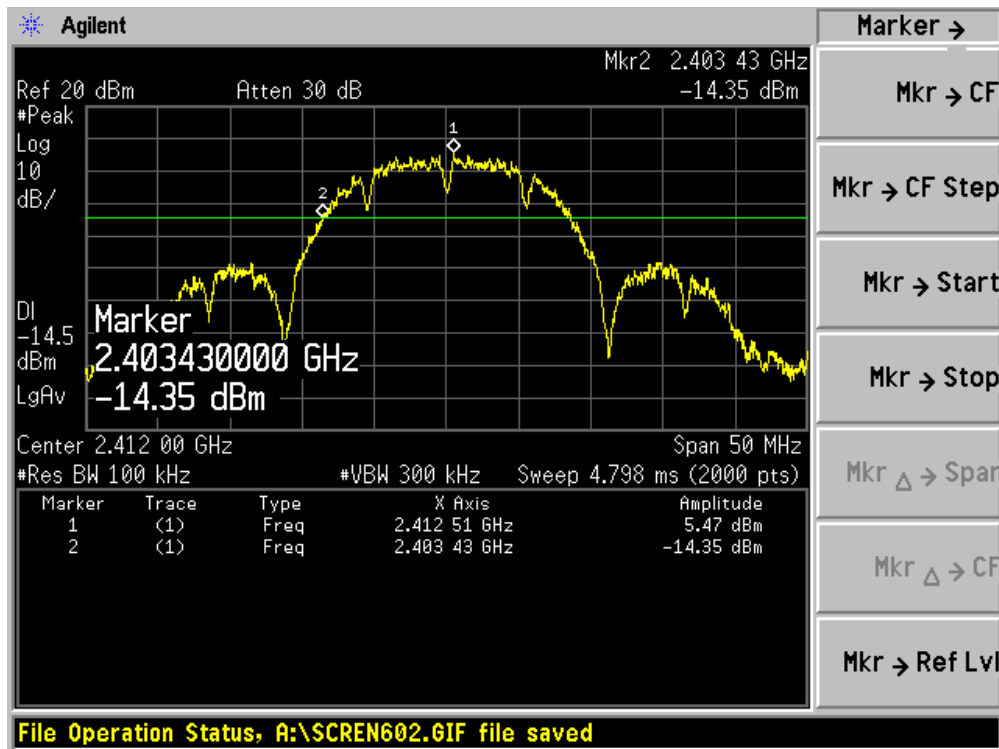
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

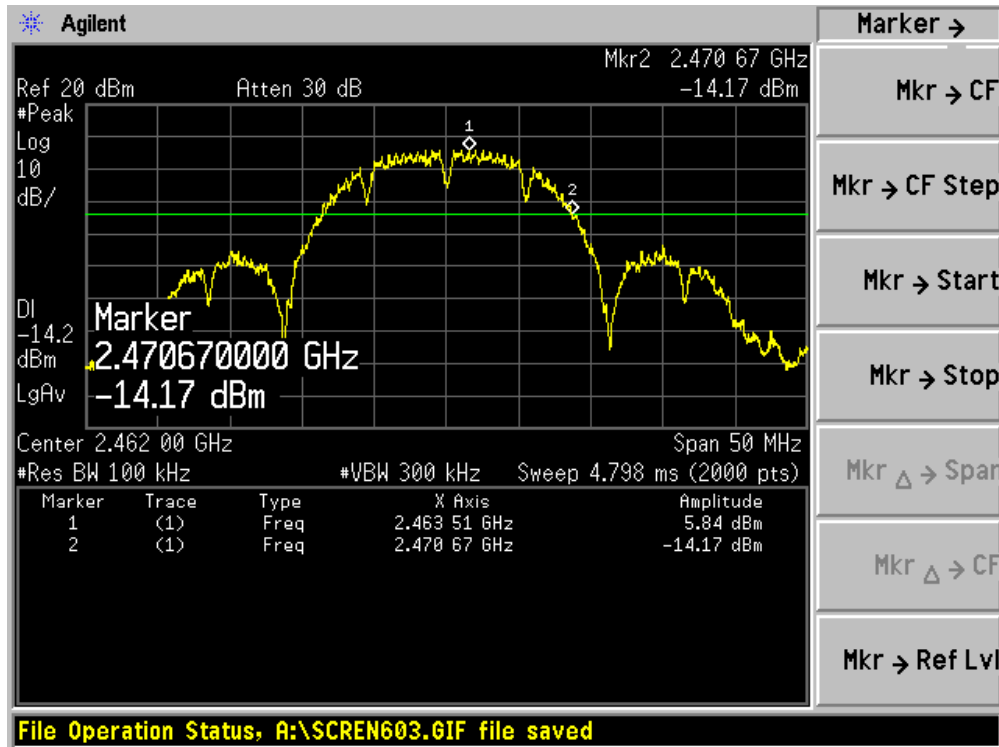
7.6. Test Result

Product	:	NETPASSAGE WPE53G
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

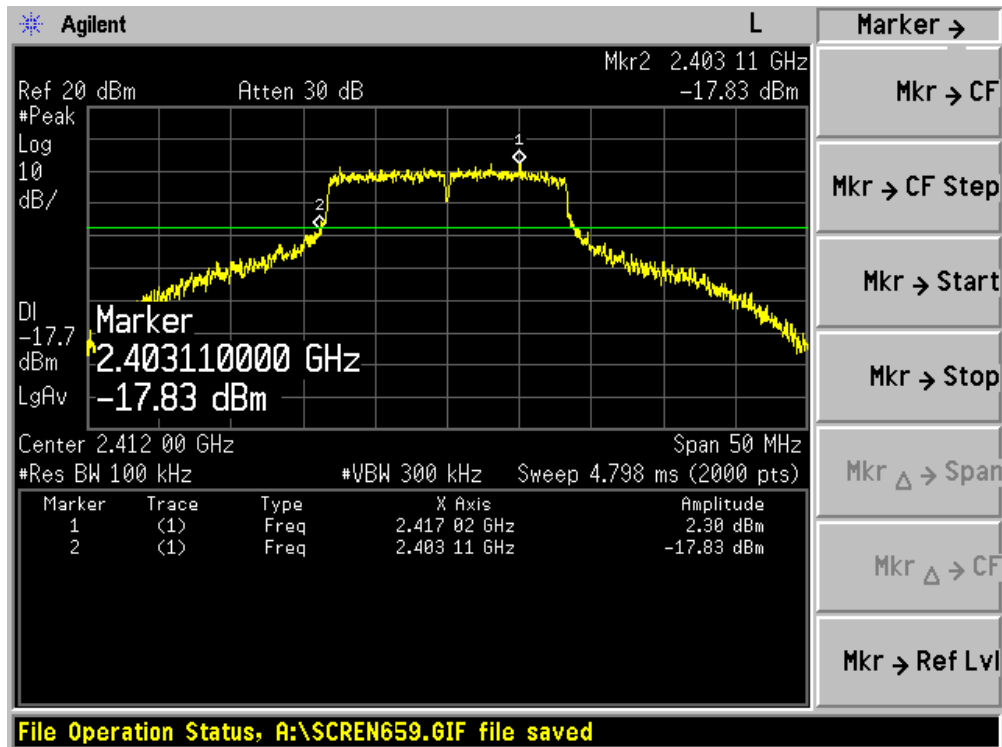


Channel 11 (2462MHz)

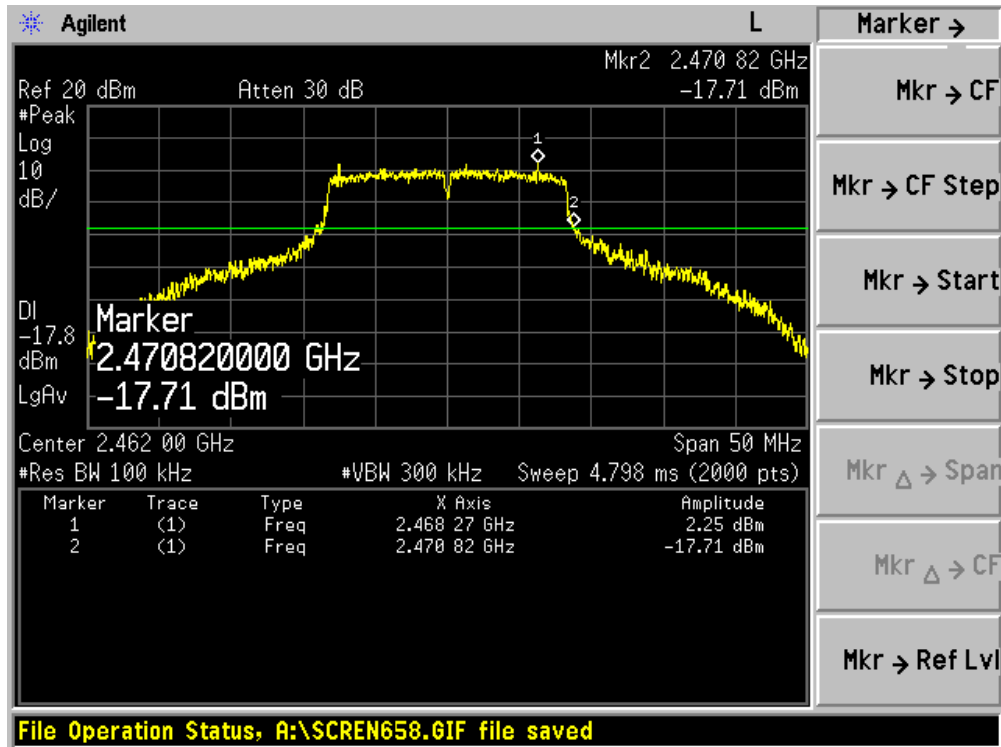


Product	: NETPASSAGE WPE53G
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)



Channel 11 (2462MHz)



8. Occupied Bandwidth

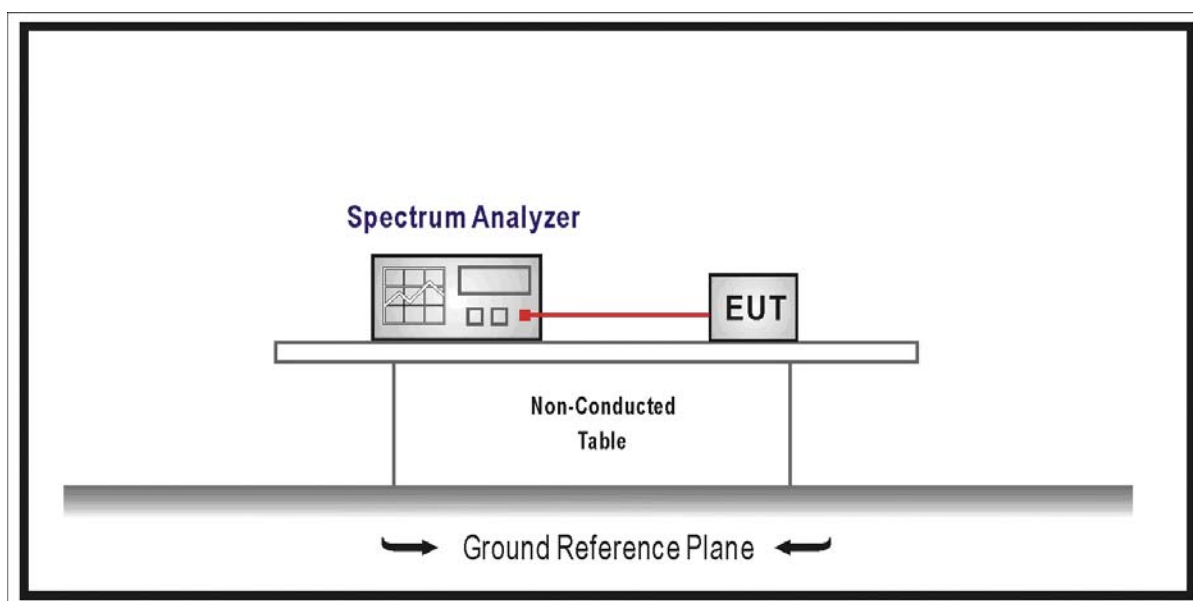
8.1. Test Equipment

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

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

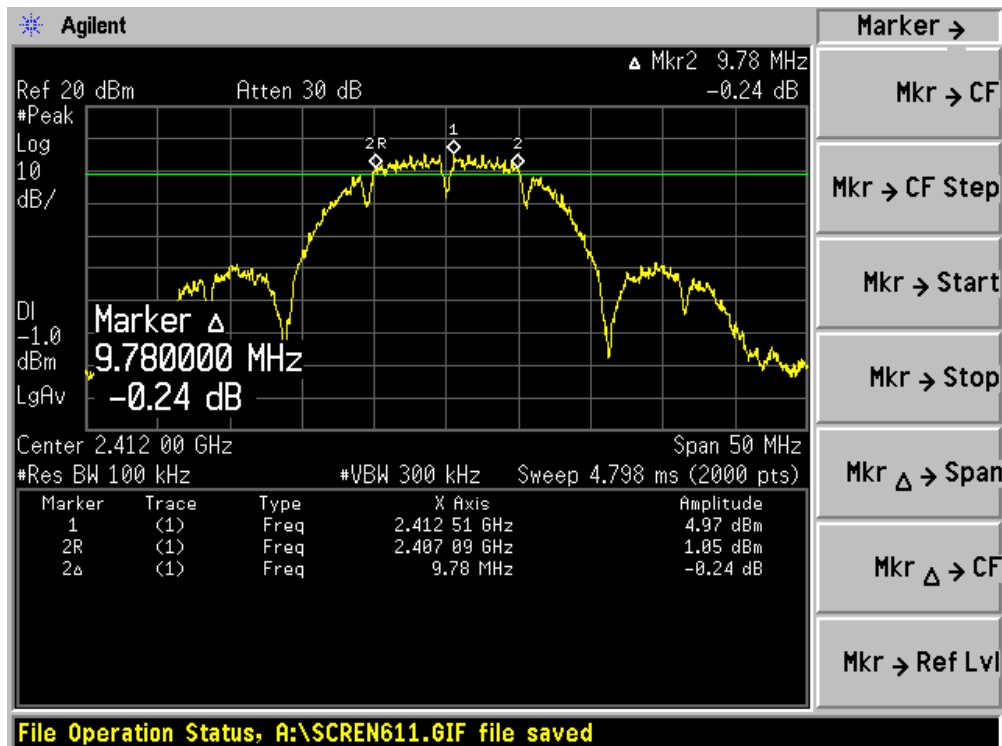
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

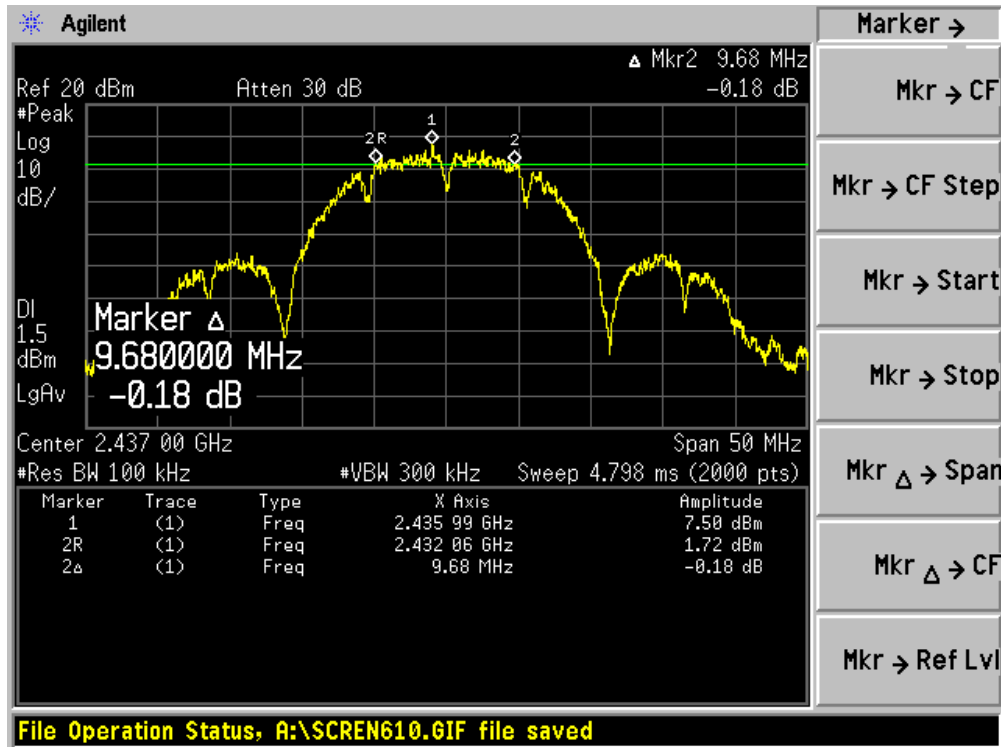
Product	:	NETPASSAGE WPE53G
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	9780	500	Pass
06	2437	9680	500	Pass
11	2462	9950	500	Pass

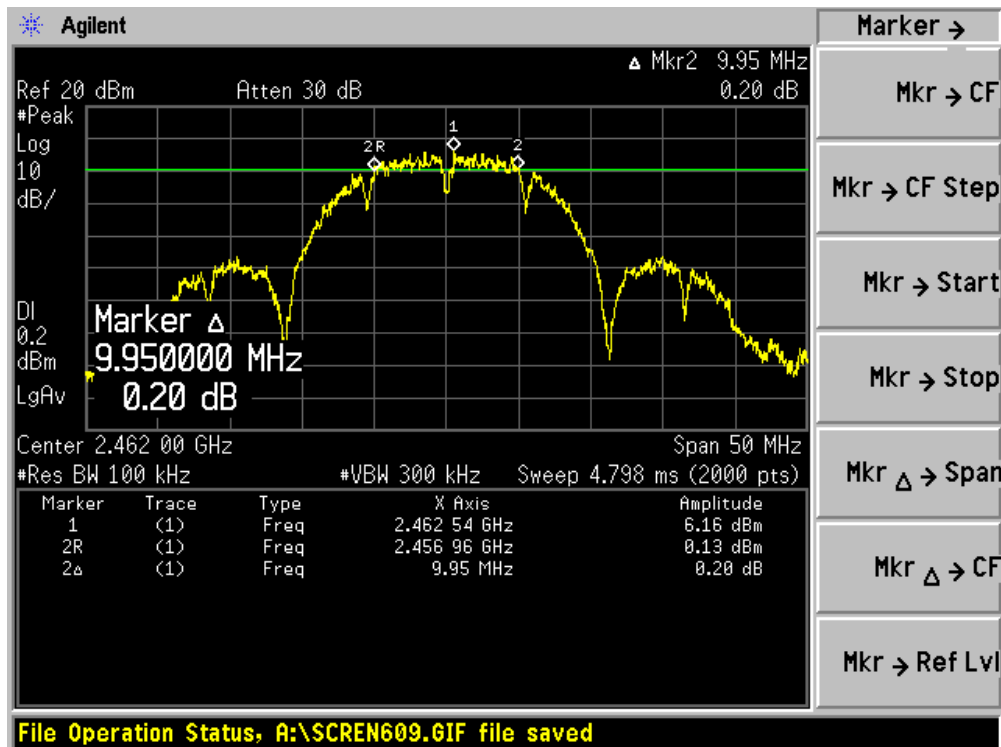
Channel 01 (2412MHz)



Channel 06 (2437MHz)



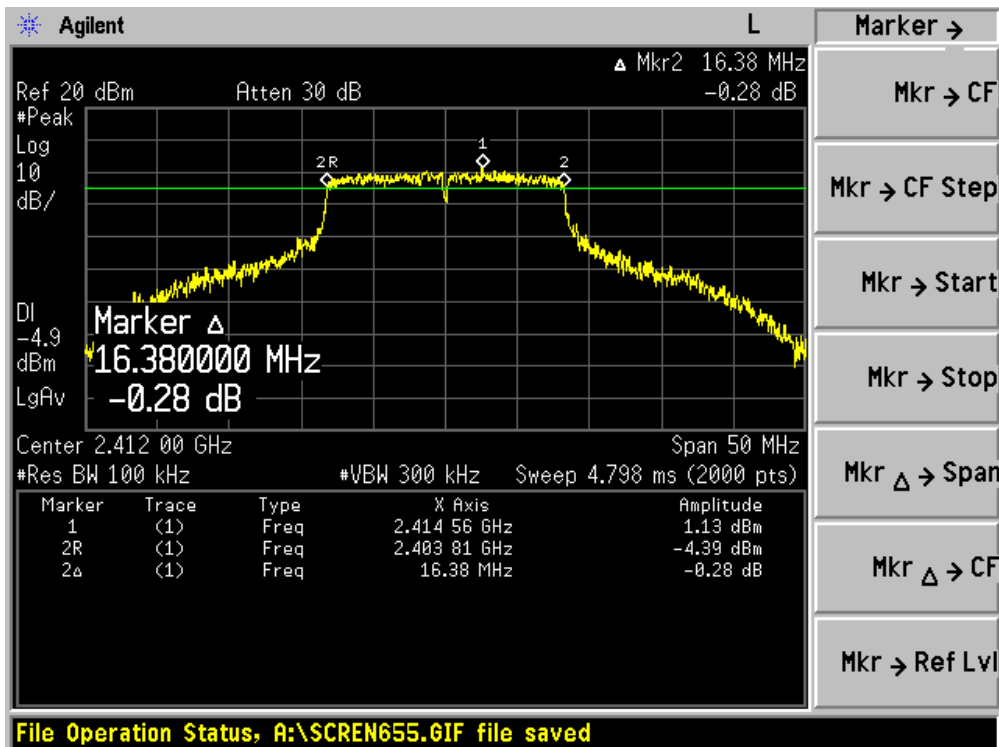
Channel 11 (2462MHz)



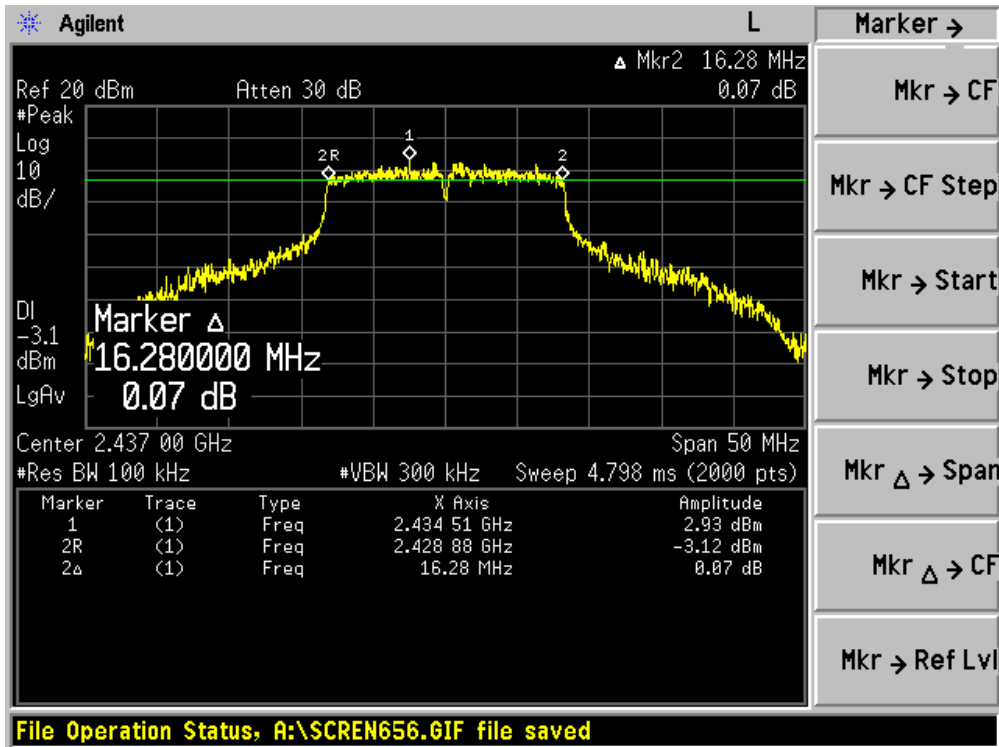
Product	:	NETPASSAGE WPE53G
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16380	500	Pass
06	2437	16280	500	Pass
11	2462	16380	500	Pass

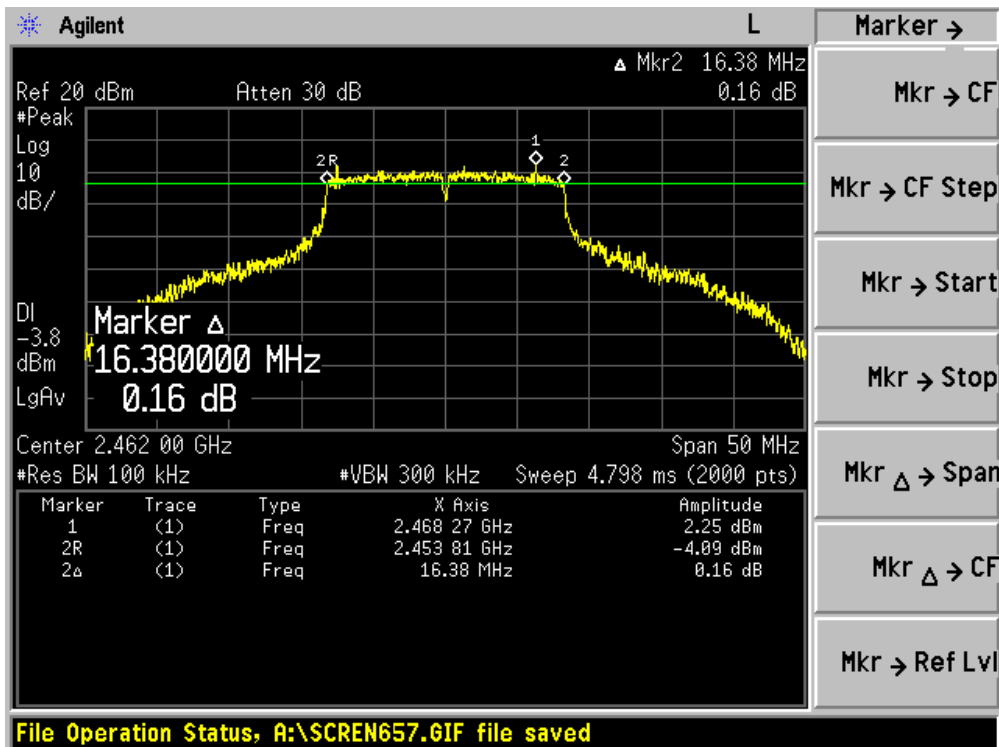
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



9. Power Output

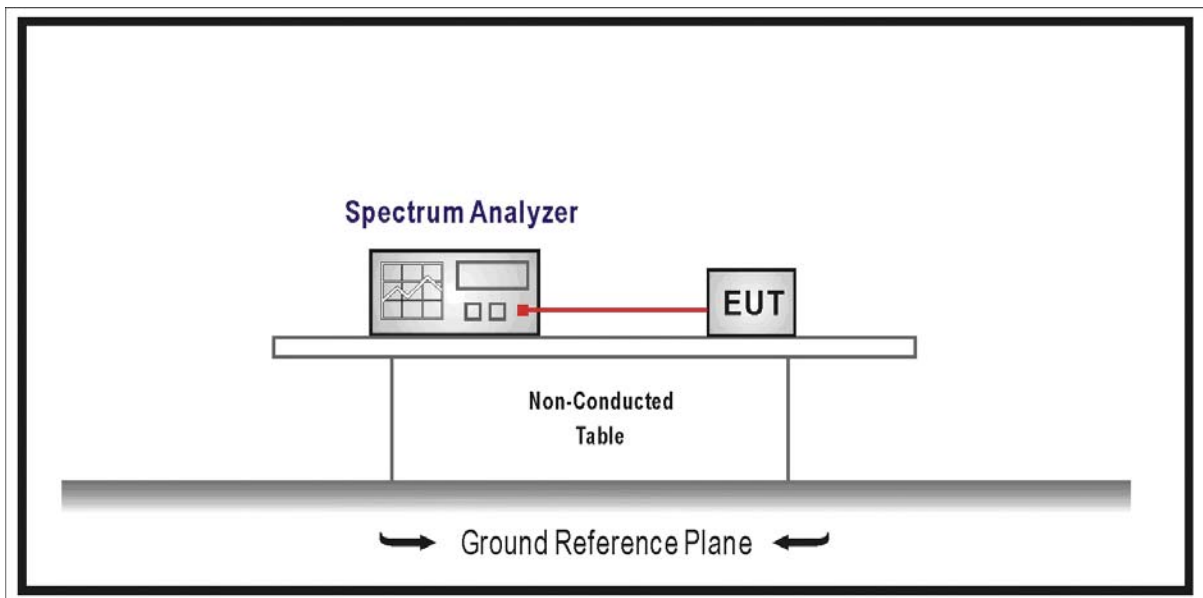
9.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

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).

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time.

As “T” \geq sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW \geq 3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

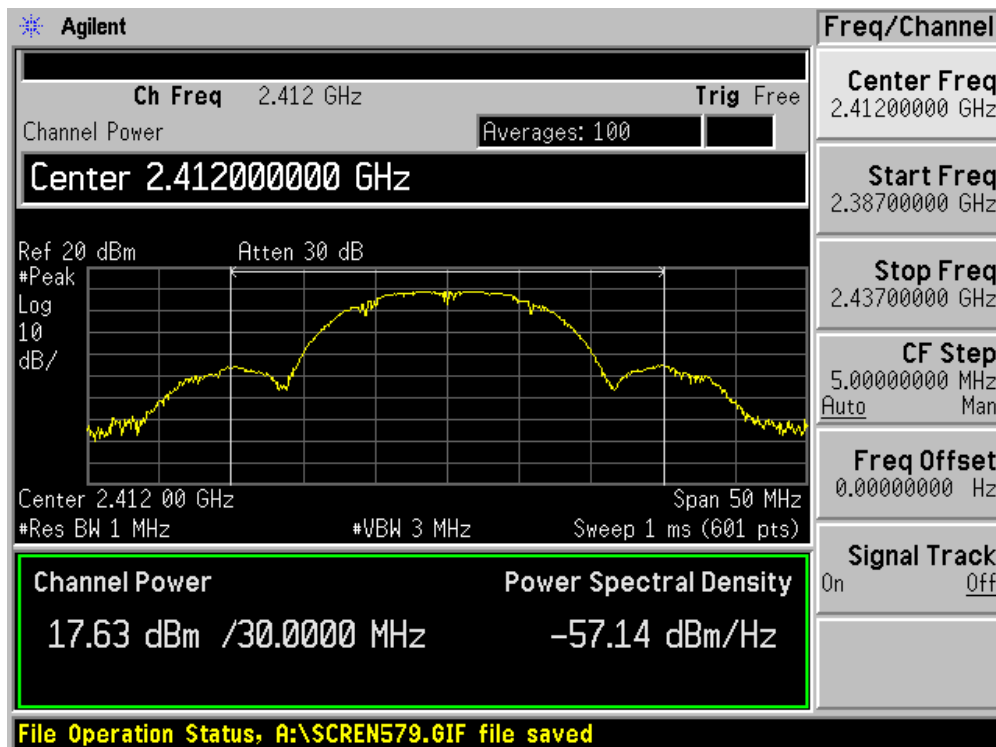
9.6. Test Result

Product	:	NETPASSAGE WPE53G
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

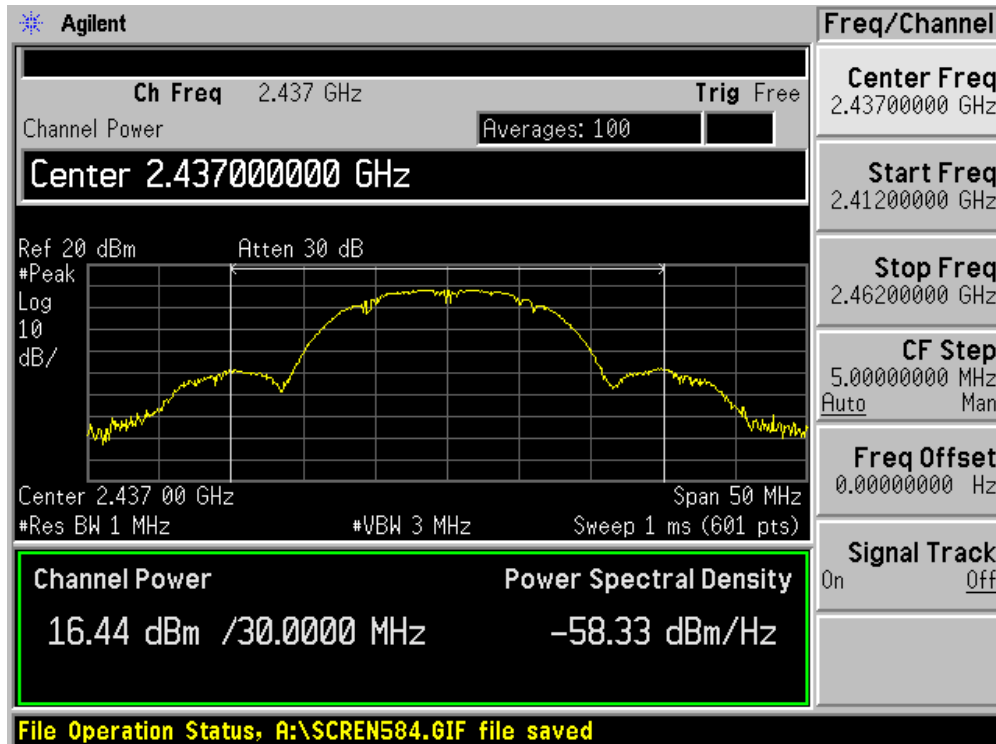
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	17.63	--	--	--	30
06	2437	16.44	16.23	16.07	15.86	30
11	2462	17.32	--	--	--	30

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.

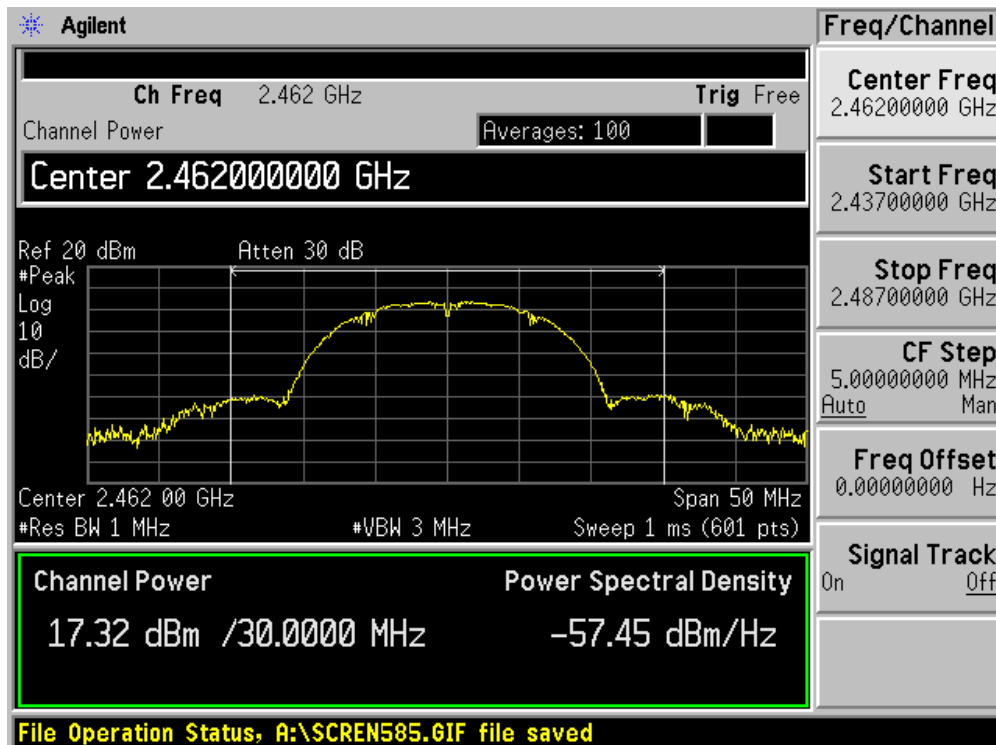
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

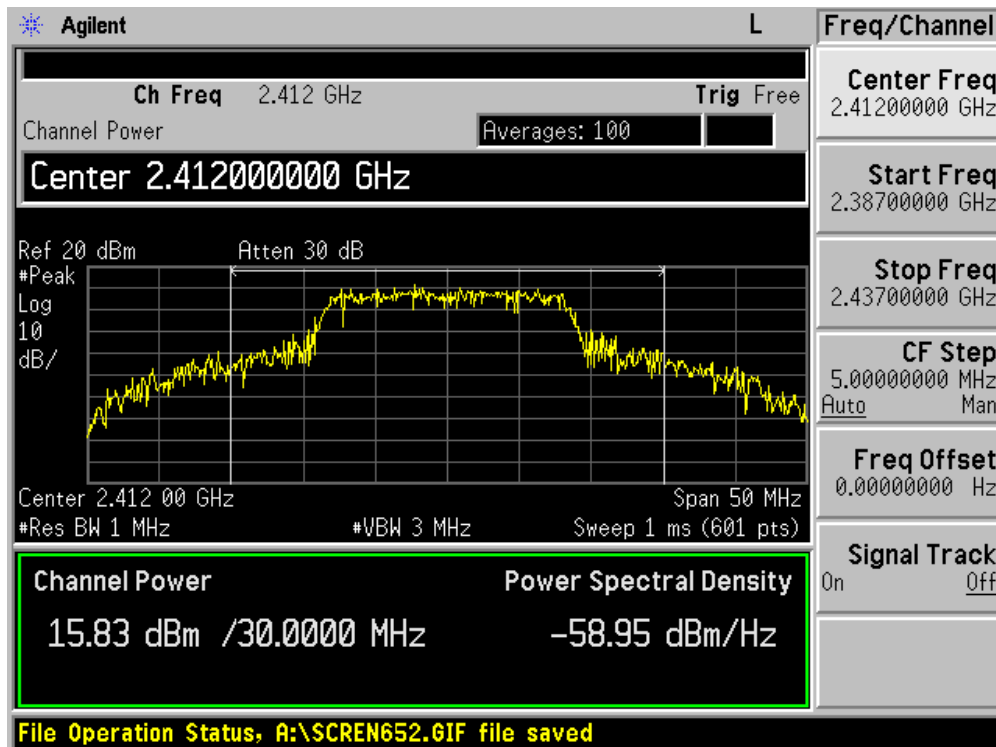


Product	:	NETPASSAGE WPE53G
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

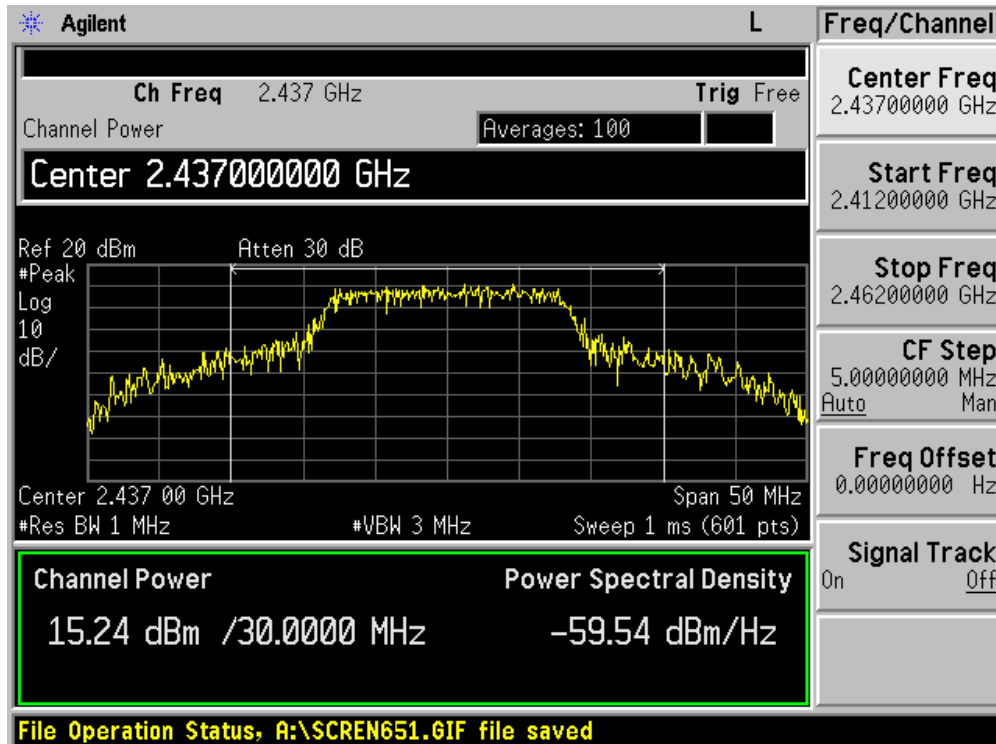
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	15.83	--	--	--	--	--	--	--	30
06	2437	15.24	15.13	15.00	14.92	14.85	14.72	14.68	14.55	30
11	2462	15.67	--	--	--	--	--	--	--	30

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.

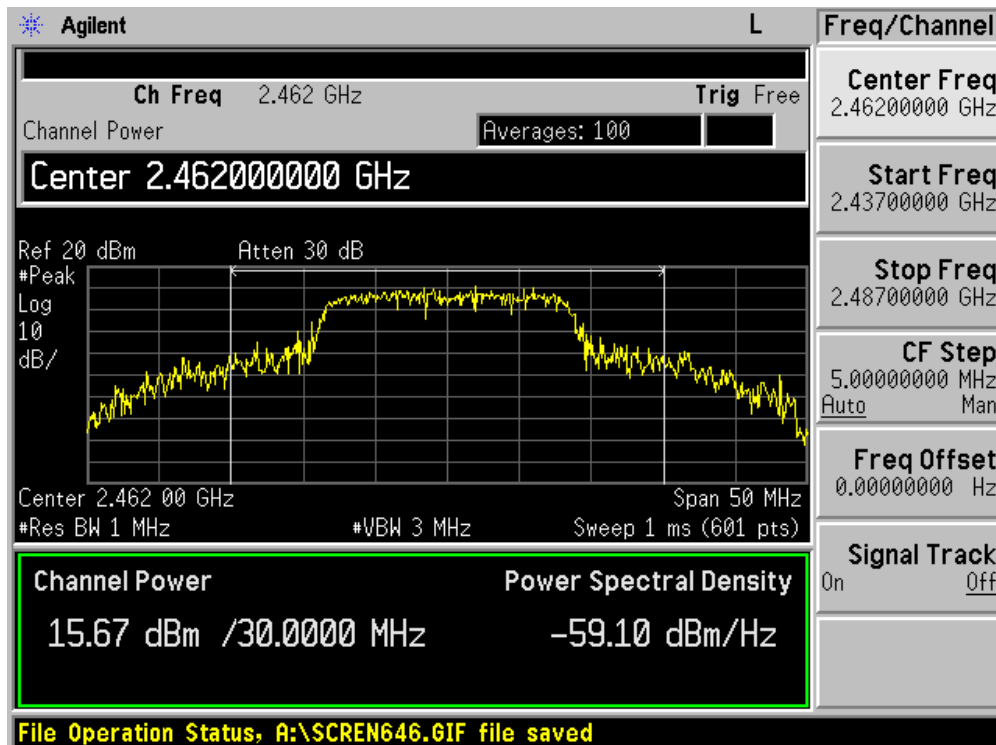
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



10. Power Spectral Density

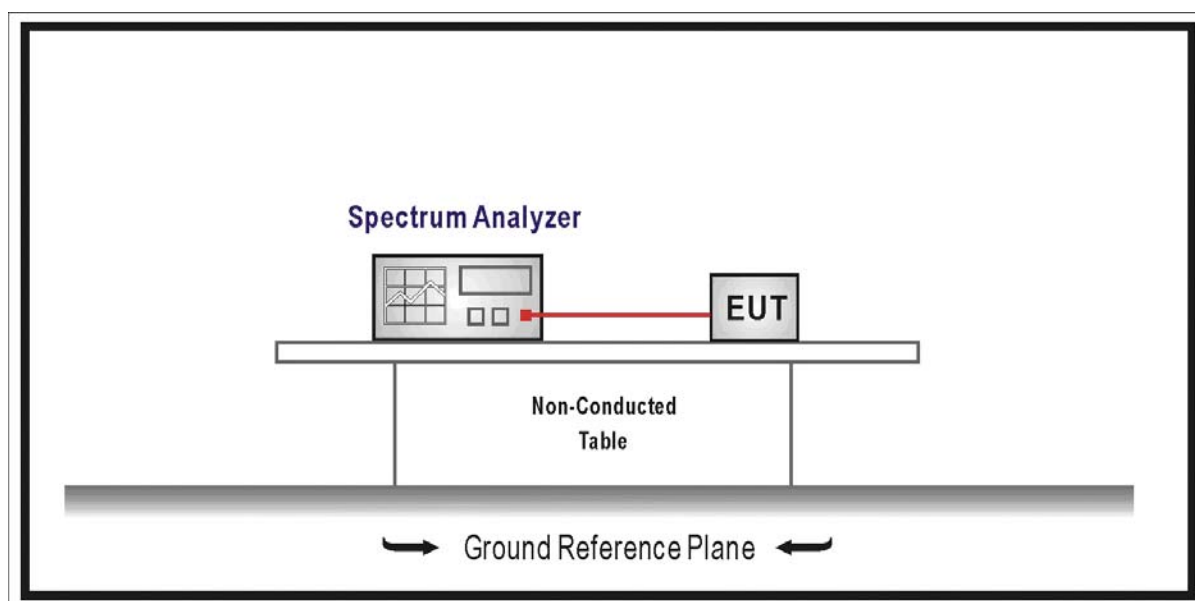
10.1. Test Equipment

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

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

10.2. Test Setup



10.3. Limit

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

10.4. Test Procedure

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

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

10.5. Uncertainty

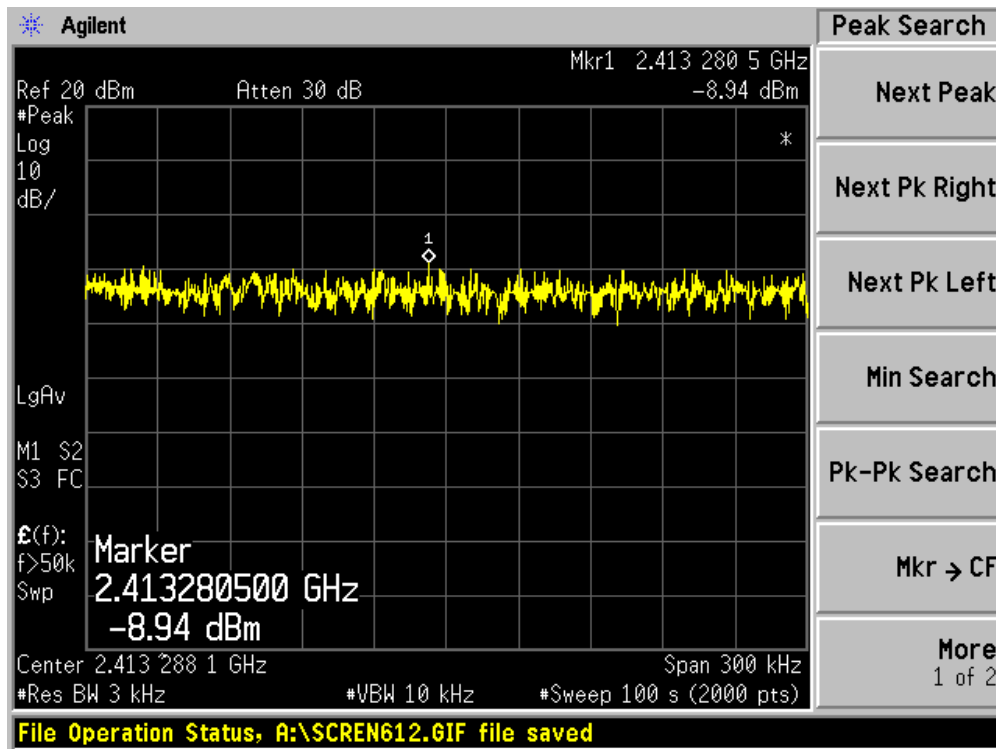
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

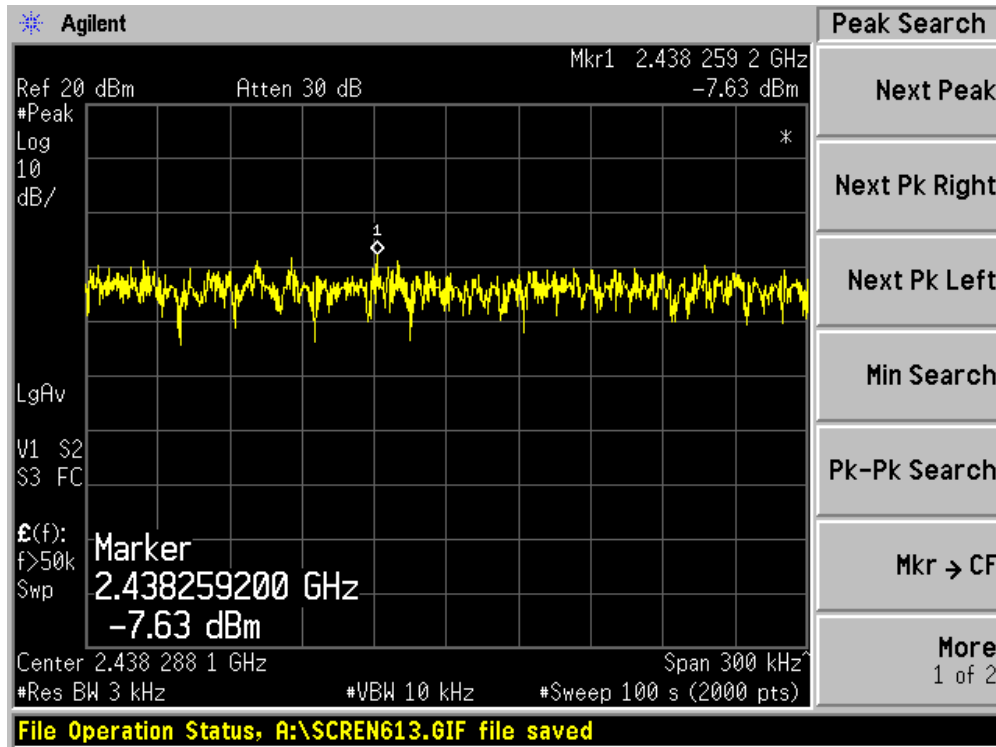
Product	:	NETPASSAGE WPE53G
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-8.94	8	Pass
06	2437	-7.63	8	Pass
11	2462	-6.01	8	Pass

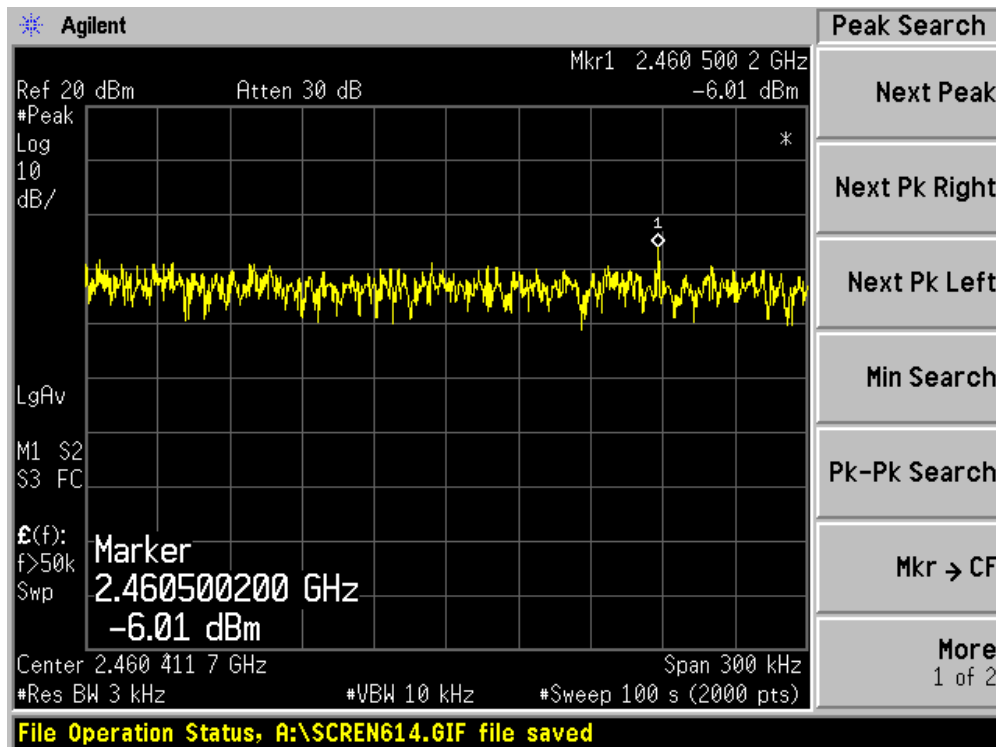
Channel 01 (2412MHz)



Channel 06 (2437MHz)



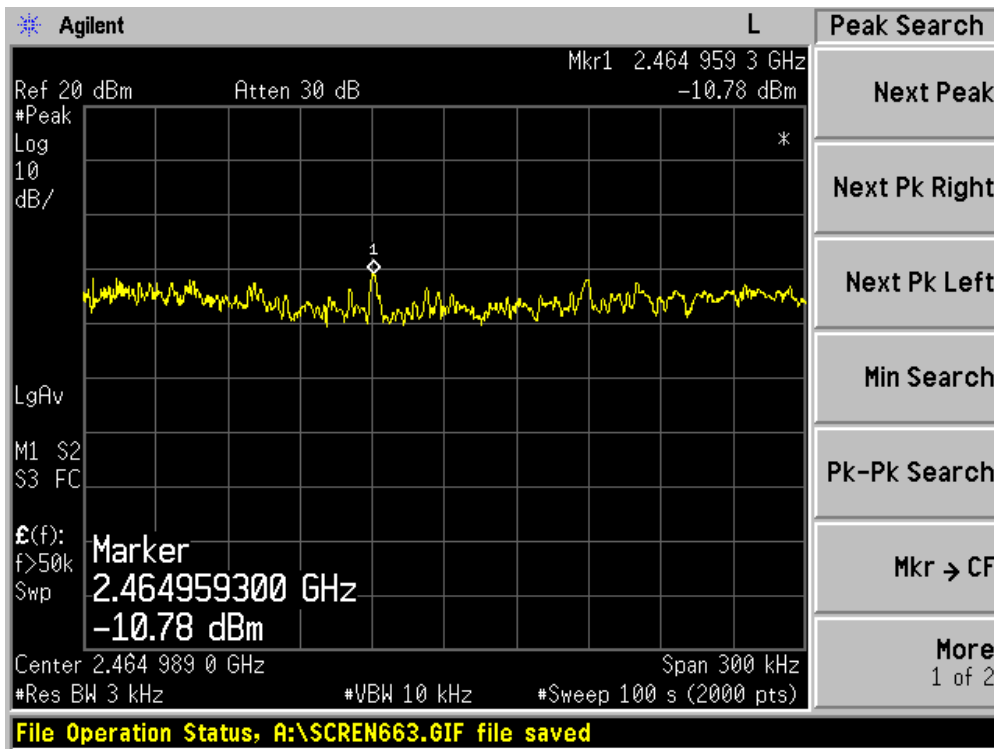
Channel 11 (2462MHz)



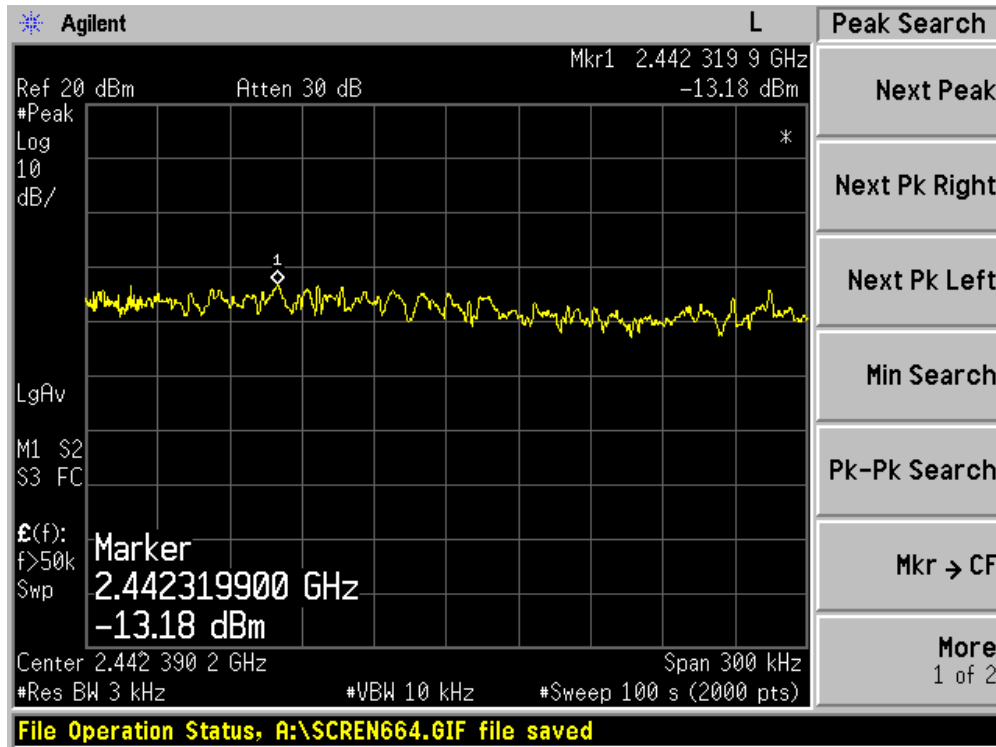
Product	:	NETPASSAGE WPE53G
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-10.78	8	Pass
06	2437	-13.18	8	Pass
11	2462	-9.32	8	Pass

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

