



# Test Report

Product Name : WIRELESS-G INTERNET ROUTER  
Model No. : NETPASSAGE NP25G  
FCC ID : TK4-08-NP25G

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 : 2008/03/24  
Report No. : 083S006-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 : 2008/03/24

Report No. : 083S006-RF-US-P05V01



Product Name : WIRELESS-G INTERNET ROUTER

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 NP25G

FCC ID : TK4-08-NP25G

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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Hi-Tech Development Zone., SuZhou, China  
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FCC Registration Number: 800392

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Approved By :   
\_\_\_\_\_

( 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:

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

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:

### HsinChu Testing Laboratory :

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 TEL : +886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



### Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China  
 TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com



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## 1. General Information

### 1.1. EUT Description

Product Name	NETPASSAGE NP25G
Trade Name	Compex
Model No.	NETPASSAGE NP25G
FCC ID	TK4-08-NP25G
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 083S006-IT-US-P01V02, certified under Declaration of Conformity.

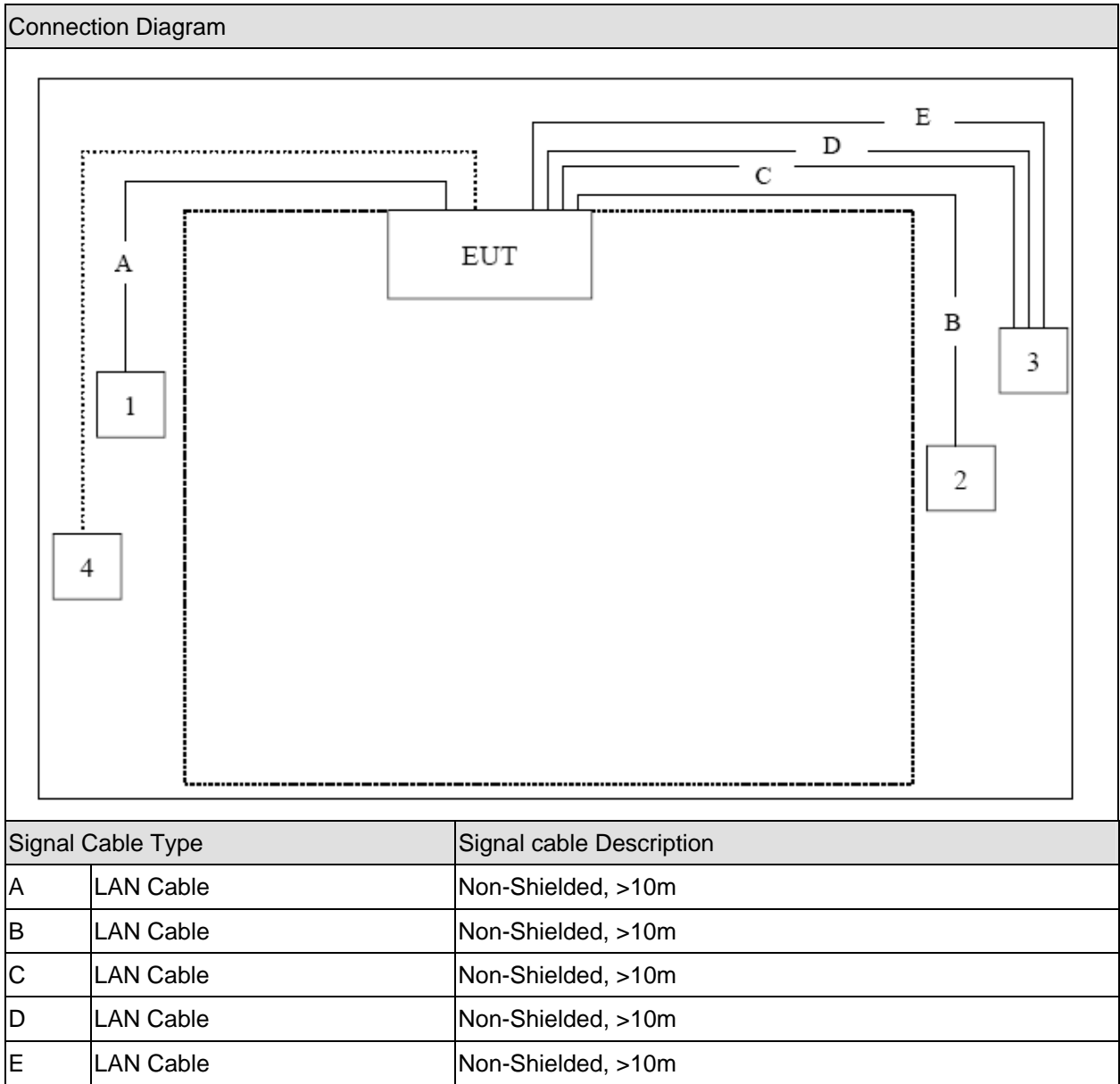


**1.3. Tested System Details**

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   Notebook	DELL	PP19L	JH097 A01	Power by adaptor
2   MacBook	Apple	MB061CH	W8732B4TZ5V	Power by adaptor
3   Hub	TP-LINK	TL-SF1008D	7529400587	Power by Adapter
4   Notebook	HP	HP520	N/A	Power by Adapter

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

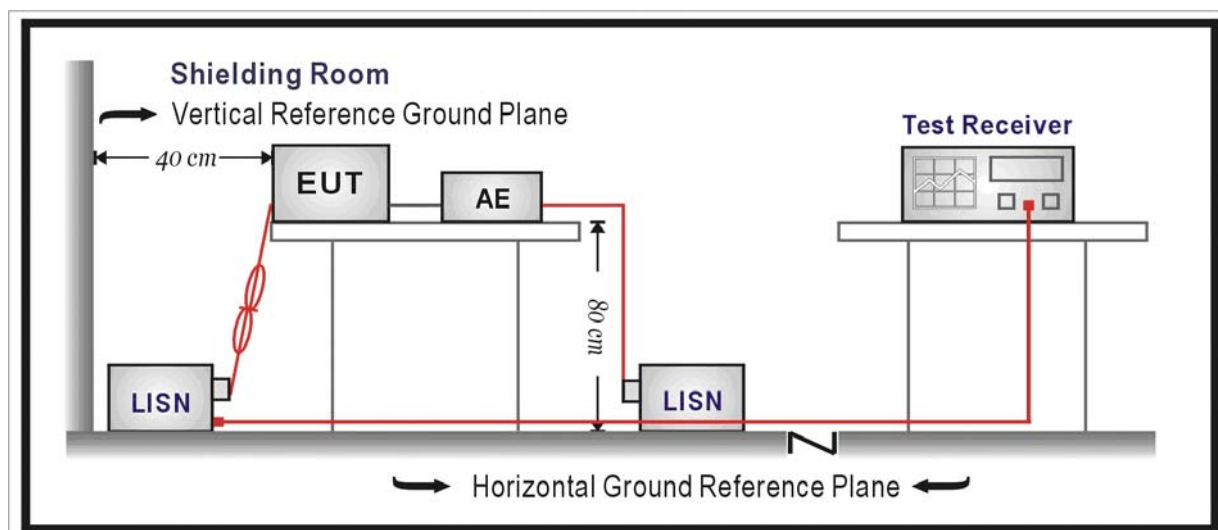
#### 3.1. Test Equipment

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.

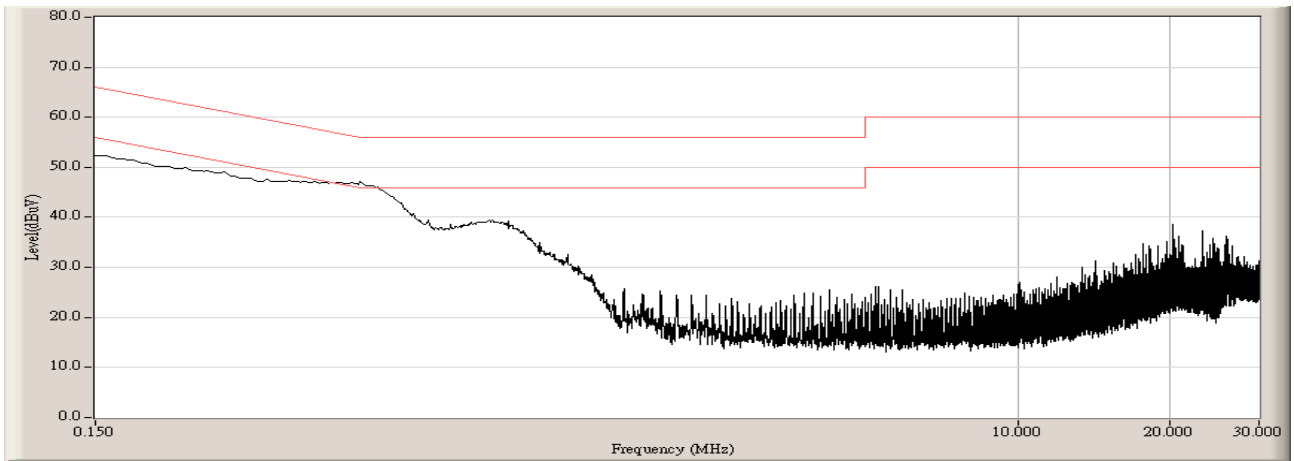
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**3.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 2.02$  dB

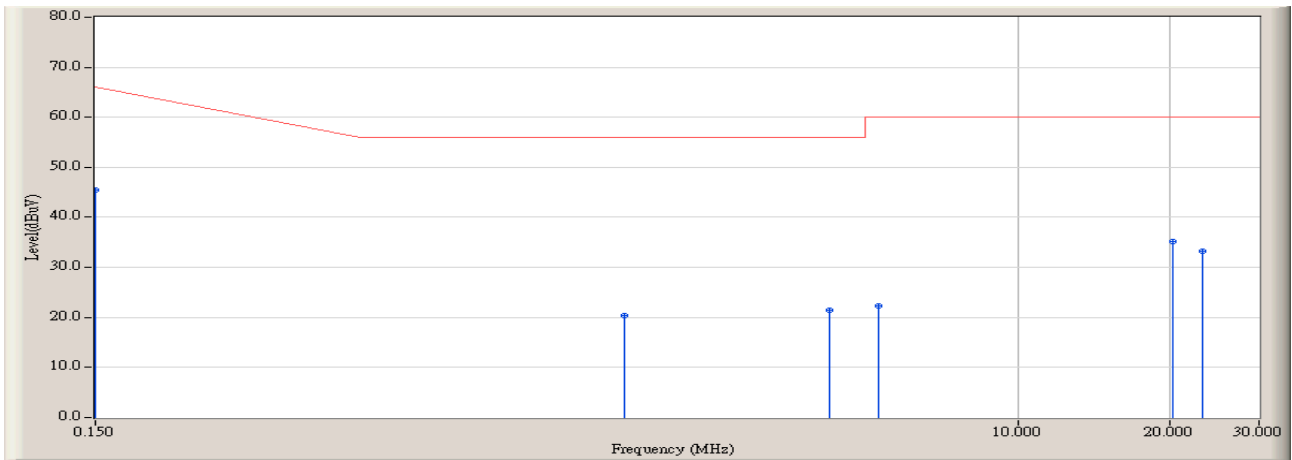
**3.6. Test Result**

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/24 - 13:01
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE NP25G	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 : 2008/02/24 - 13:04
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

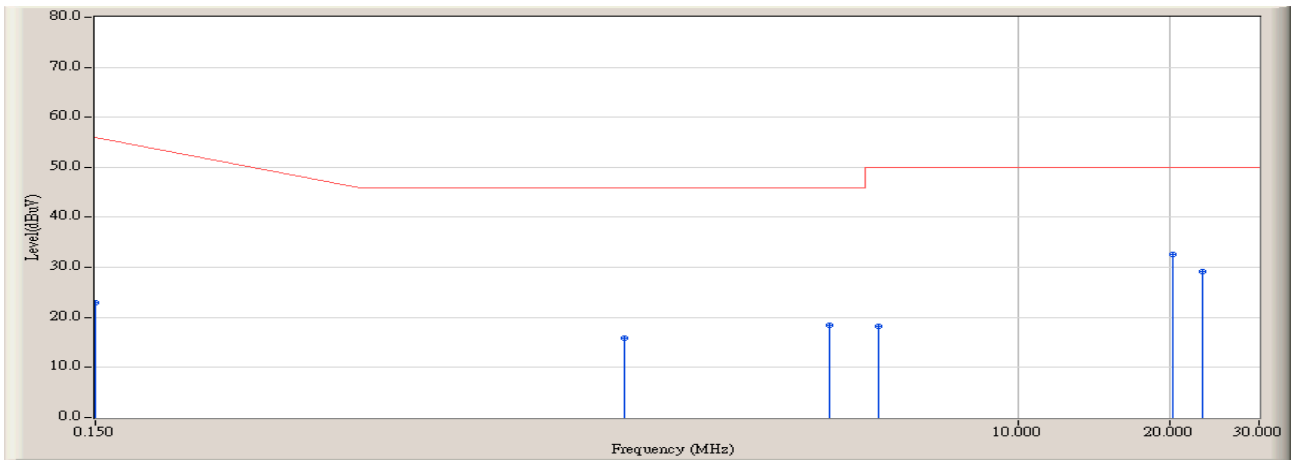


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.160	35.300	45.460	-20.540	66.000	QUASIPeAK
2		1.665	9.700	10.700	20.400	-35.600	56.000	QUASIPeAK
3		4.238	9.830	11.600	21.430	-34.570	56.000	QUASIPeAK
4		5.297	9.880	12.400	22.280	-37.720	60.000	QUASIPeAK
5		20.258	10.240	25.000	35.240	-24.760	60.000	QUASIPeAK
6		23.130	10.450	22.700	33.150	-26.850	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 : 2008/02/24 - 13:04
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

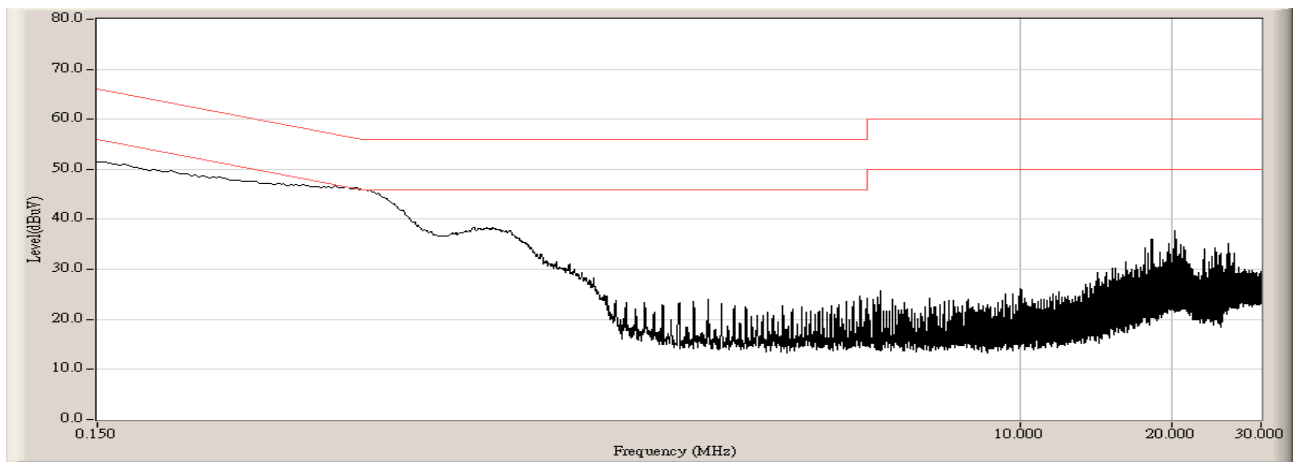


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	12.800	22.960	-33.040	56.000	AVERAGE
2		1.665	9.700	6.100	15.800	-30.200	46.000	AVERAGE
3		4.238	9.830	8.600	18.430	-27.570	46.000	AVERAGE
4		5.297	9.880	8.400	18.280	-31.720	50.000	AVERAGE
5	*	20.258	10.240	22.300	32.540	-17.460	50.000	AVERAGE
6		23.130	10.450	18.700	29.150	-20.850	50.000	AVERAGE

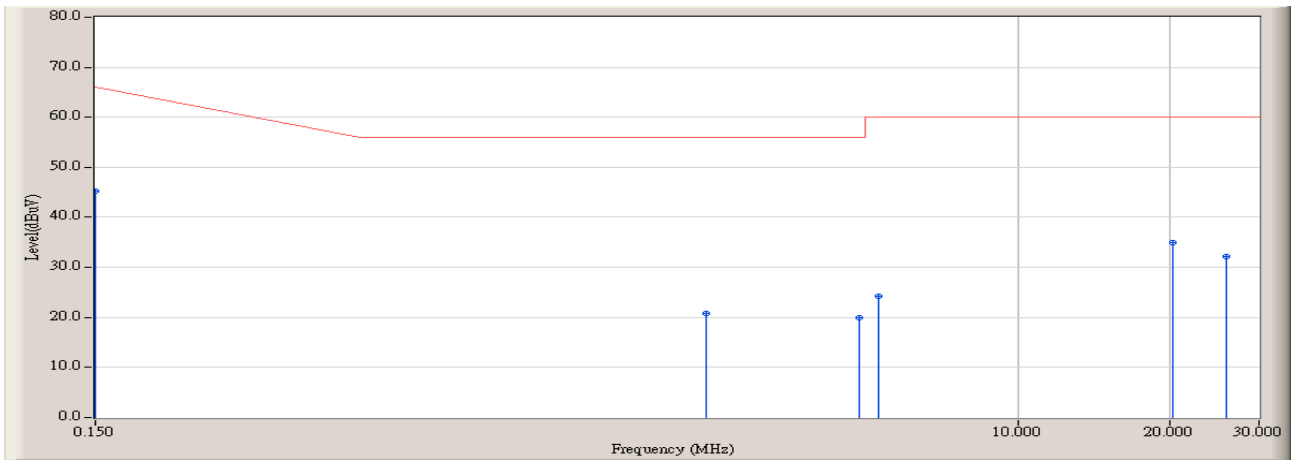
**Note:**

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 : 2008/02/24 - 13:13
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line2
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 : 2008/02/24 - 13:16
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

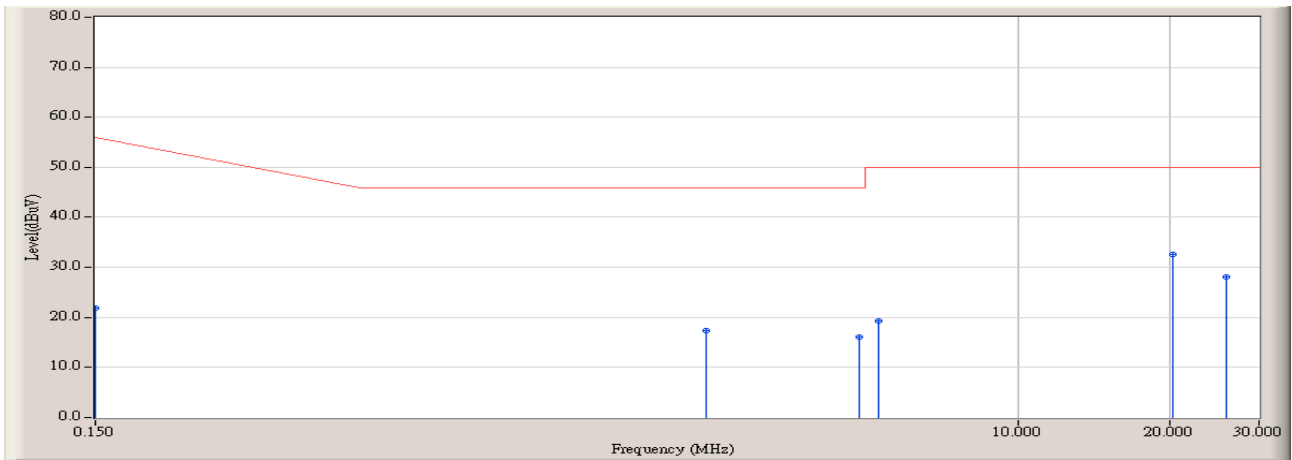


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	35.200	45.206	-20.794	66.000	QUASIPeAK
2		2.422	9.670	11.100	20.770	-35.230	56.000	QUASIPeAK
3		4.845	9.730	10.300	20.030	-35.970	56.000	QUASIPeAK
4		5.298	9.750	14.500	24.250	-35.750	60.000	QUASIPeAK
5		20.258	10.230	24.800	35.030	-24.970	60.000	QUASIPeAK
6		25.878	10.340	21.800	32.140	-27.860	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 : 2008/02/24 - 13:16
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

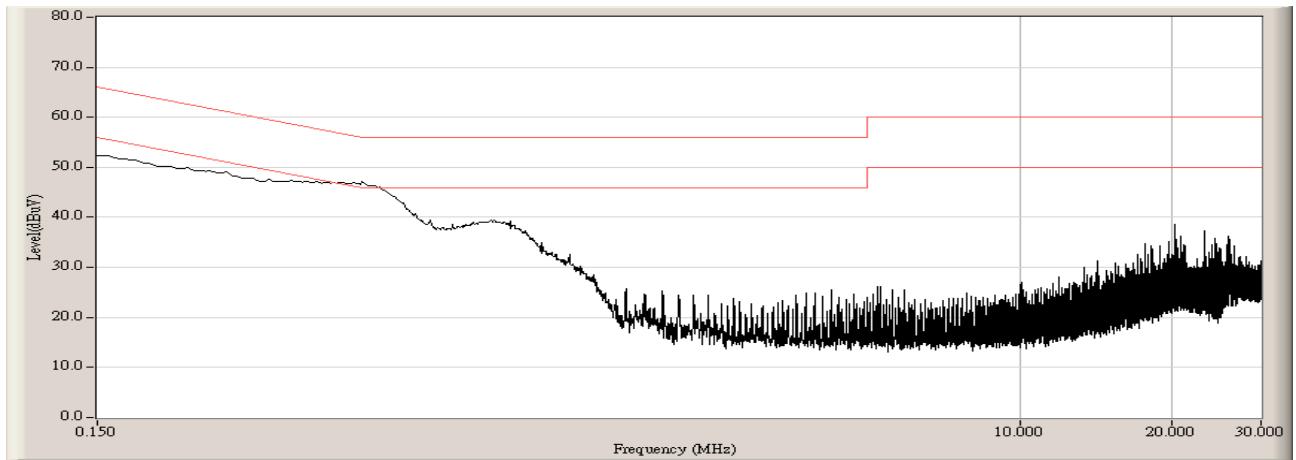


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	11.900	21.906	-34.094	56.000	AVERAGE
2		2.422	9.670	7.800	17.470	-28.530	46.000	AVERAGE
3		4.845	9.730	6.400	16.130	-29.870	46.000	AVERAGE
4		5.298	9.750	9.500	19.250	-30.750	50.000	AVERAGE
5	*	20.258	10.230	22.400	32.630	-17.370	50.000	AVERAGE
6		25.878	10.340	17.700	28.040	-21.960	50.000	AVERAGE

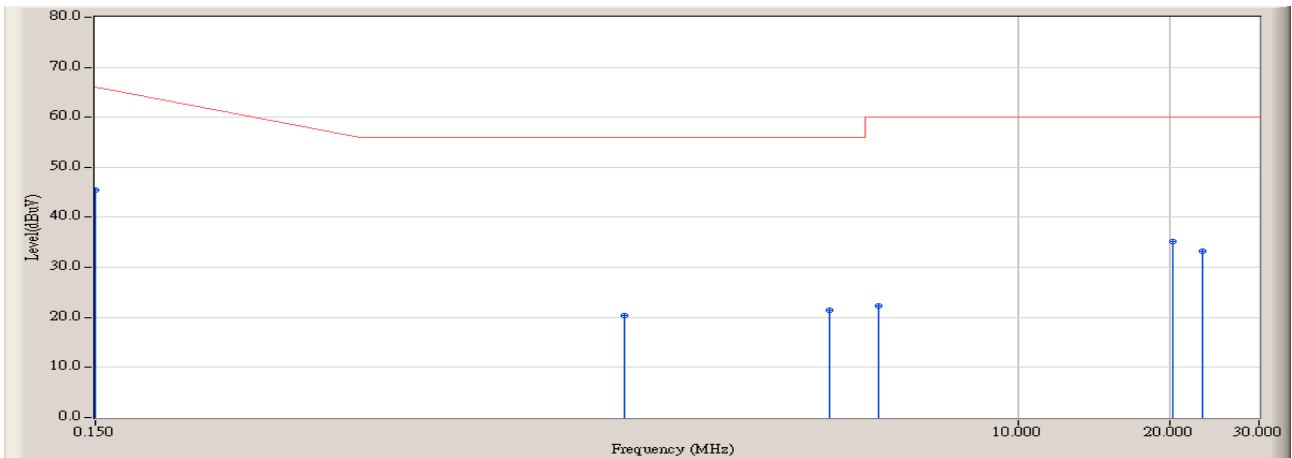
**Note:**

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 : 2008/02/24 - 13:21
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE NP25G	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 : 2008/02/24 - 13:24
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

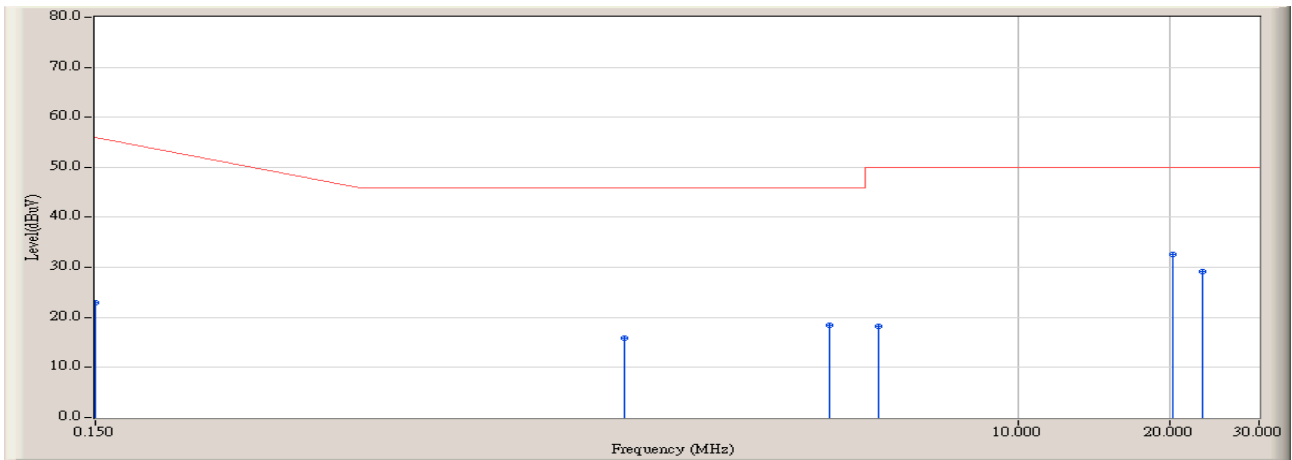


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.160	35.300	45.460	-20.540	66.000	QUASIPeAK
2		1.665	9.700	10.700	20.400	-35.600	56.000	QUASIPeAK
3		4.238	9.830	11.600	21.430	-34.570	56.000	QUASIPeAK
4		5.297	9.880	12.400	22.280	-37.720	60.000	QUASIPeAK
5		20.258	10.240	25.000	35.240	-24.760	60.000	QUASIPeAK
6		23.130	10.450	22.700	33.150	-26.850	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 : 2008/02/24 - 13:24
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



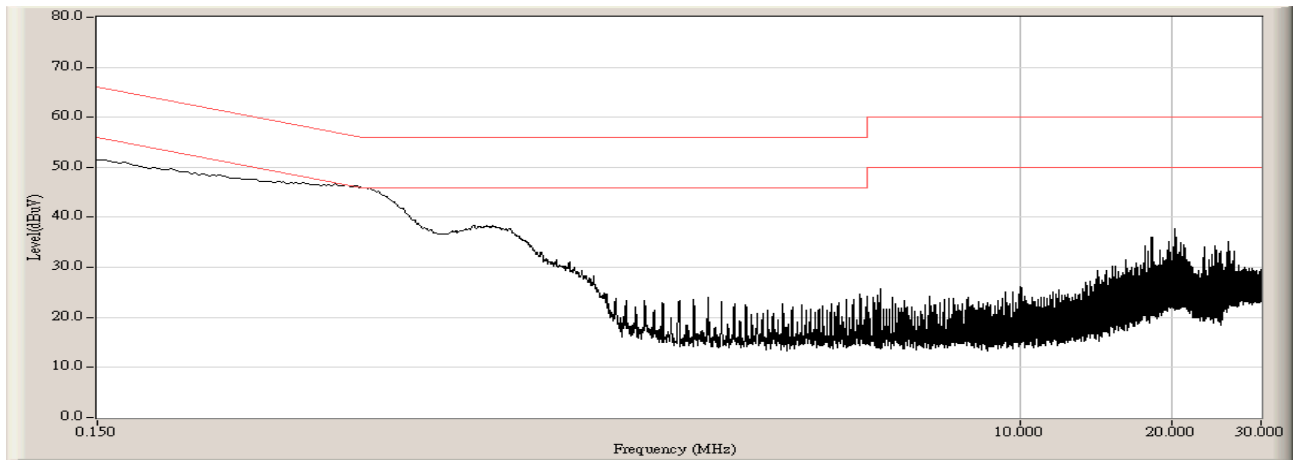
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	12.800	22.960	-33.040	56.000	AVERAGE
2		1.665	9.700	6.100	15.800	-30.200	46.000	AVERAGE
3		4.238	9.830	8.600	18.430	-27.570	46.000	AVERAGE
4		5.297	9.880	8.400	18.280	-31.720	50.000	AVERAGE
5	*	20.258	10.240	22.300	32.540	-17.460	50.000	AVERAGE
6		23.130	10.450	18.700	29.150	-20.850	50.000	AVERAGE

**Note:**

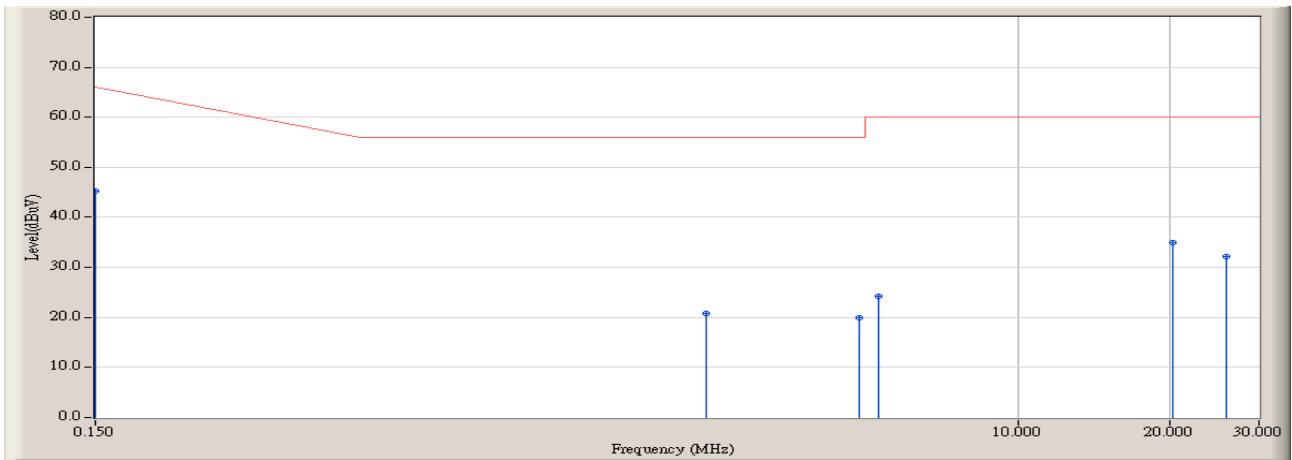
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/02/24 - 13:27
Limit : FCC_Part15.207_QP	Margin : 10
EUT : NETPASSAGE NP25G	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 : 2008/02/24 - 13:30
Limit : FCC_Part15.207_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

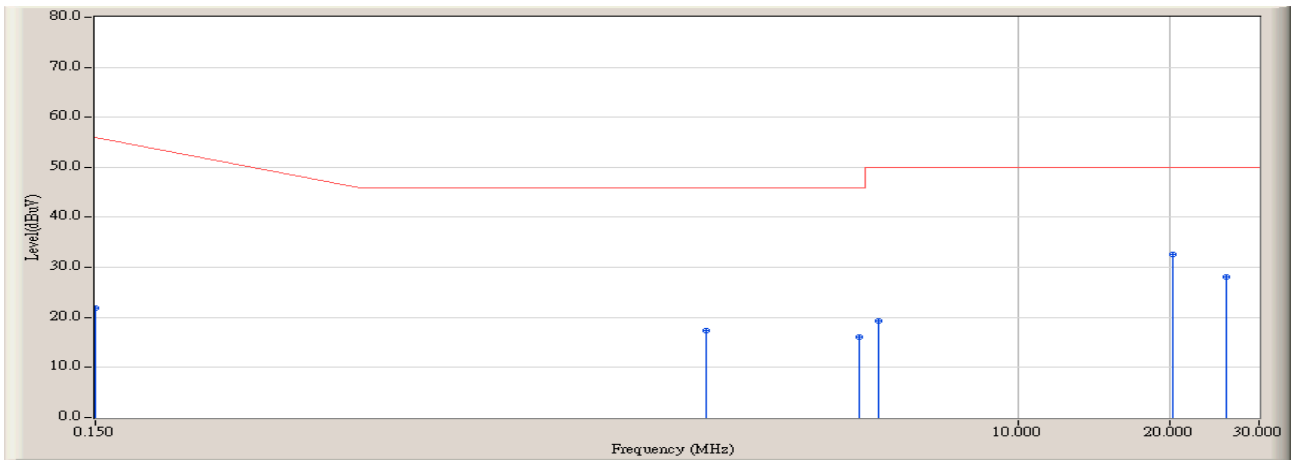


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	35.200	45.206	-20.794	66.000	QUASIPeAK
2		2.422	9.670	11.100	20.770	-35.230	56.000	QUASIPeAK
3		4.845	9.730	10.300	20.030	-35.970	56.000	QUASIPeAK
4		5.298	9.750	14.500	24.250	-35.750	60.000	QUASIPeAK
5		20.258	10.230	24.800	35.030	-24.970	60.000	QUASIPeAK
6		25.878	10.340	21.800	32.140	-27.860	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 : 2008/02/24 - 13:30
Limit : FCC_Part15.207_AV	Margin : 0
EUT : NETPASSAGE NP25G	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	11.900	21.906	-34.094	56.000	AVERAGE
2		2.422	9.670	7.800	17.470	-28.530	46.000	AVERAGE
3		4.845	9.730	6.400	16.130	-29.870	46.000	AVERAGE
4		5.298	9.750	9.500	19.250	-30.750	50.000	AVERAGE
5	*	20.258	10.230	22.400	32.630	-17.370	50.000	AVERAGE
6		25.878	10.340	17.700	28.040	-21.960	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

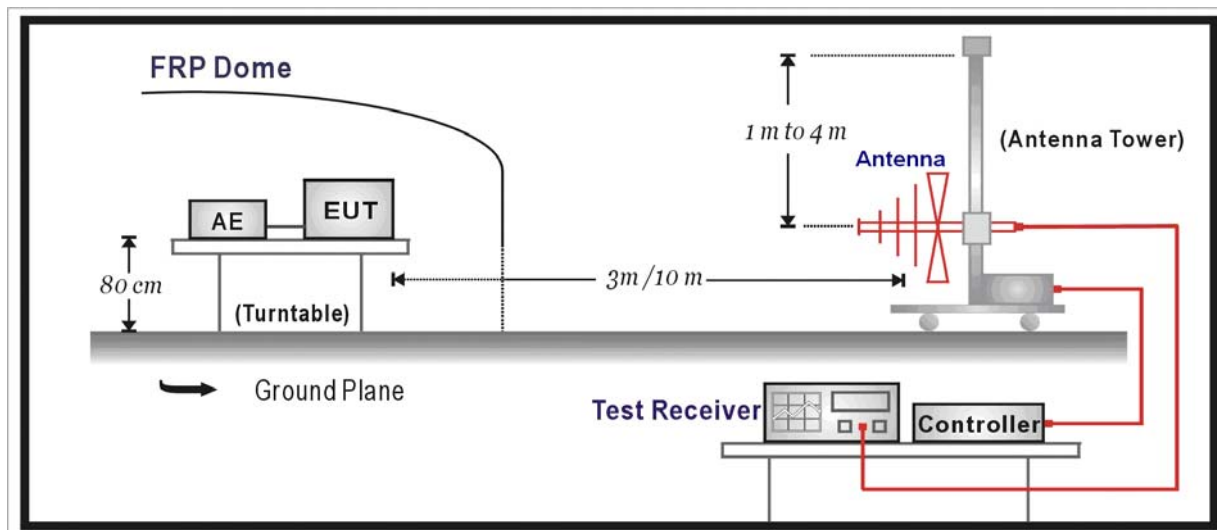
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
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.

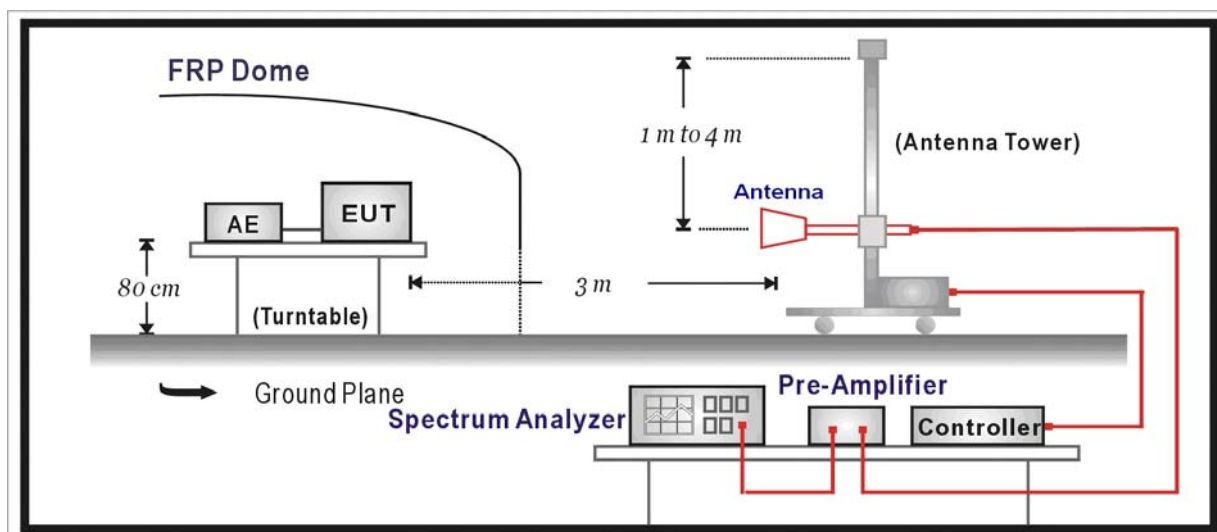
Note 2: The test instruments marked with "X" are used to measure the final test results.

## 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.

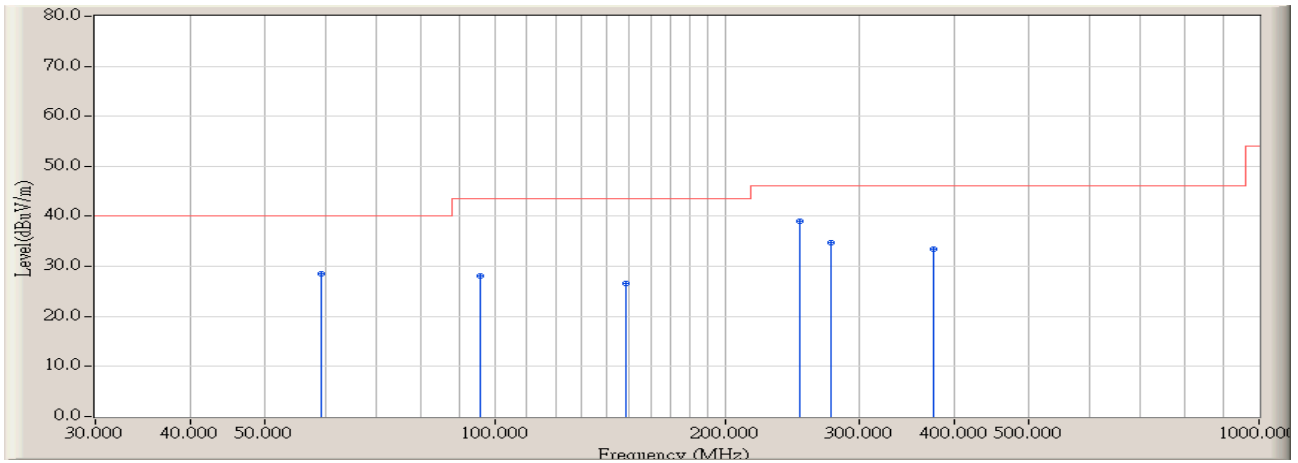
The frequency range from 30MHz to 10th harmonic is checked.

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 13:28
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

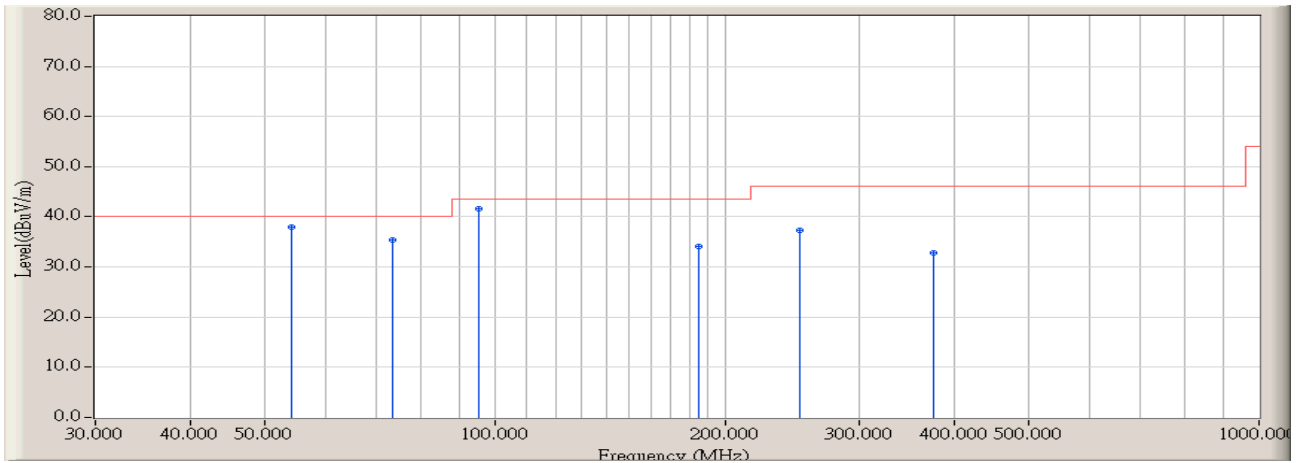


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	59.250	-16.424	44.900	28.476	-11.524	40.000	QUASIPeAK	226.500	93.000
2	95.825	-12.066	40.100	28.033	-15.487	43.520	QUASIPeAK	136.500	184.000
3	148.725	-11.781	38.400	26.619	-16.901	43.520	QUASIPeAK	105.400	147.000
4	* 250.675	-9.518	48.600	39.082	-6.938	46.020	QUASIPeAK	176.500	215.600
5	275.450	-8.946	43.600	34.653	-11.367	46.020	QUASIPeAK	122.000	139.000
6	375.350	-5.996	39.400	33.404	-12.616	46.020	QUASIPeAK	184.600	113.900

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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 13:31
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



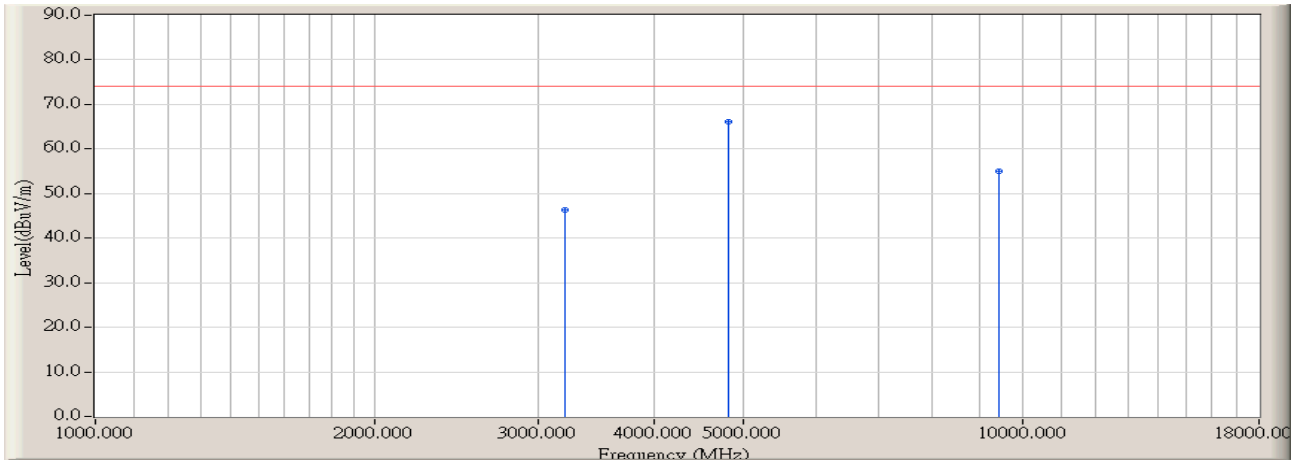
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	54.250	-15.691	53.600	37.909	-2.091	40.000	QUASIPeAK	100.000	74.900
2	73.625	-16.256	51.700	35.444	-4.556	40.000	QUASIPeAK	103.000	116.000
3	* 95.375	-12.140	53.800	41.660	-1.860	43.520	QUASIPeAK	100.000	125.700
4	185.125	-13.100	47.200	34.101	-9.419	43.520	QUASIPeAK	117.300	235.800
5	250.525	-9.525	46.800	37.274	-8.746	46.020	QUASIPeAK	100.000	93.700
6	375.350	-5.996	38.800	32.804	-13.216	46.020	QUASIPeAK	105.000	177.900

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

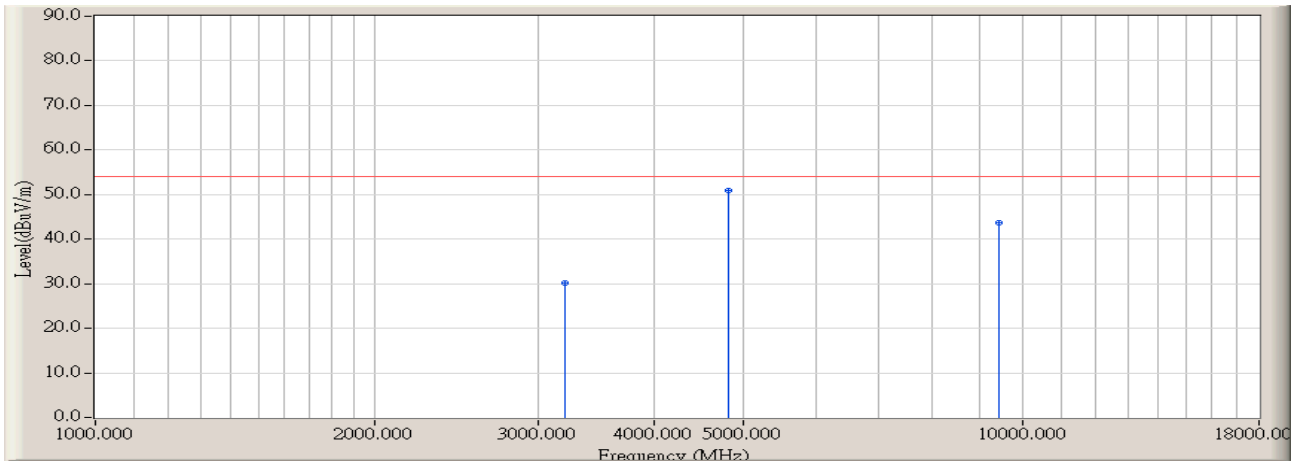


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	47.162	46.222	-27.748	73.970	PEAK	106.000	73.800
2	* 4825.000	2.700	63.385	66.085	-7.885	73.970	PEAK	100.000	128.000
3	9443.333	15.173	39.732	54.905	-19.065	73.970	PEAK	114.000	217.300

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

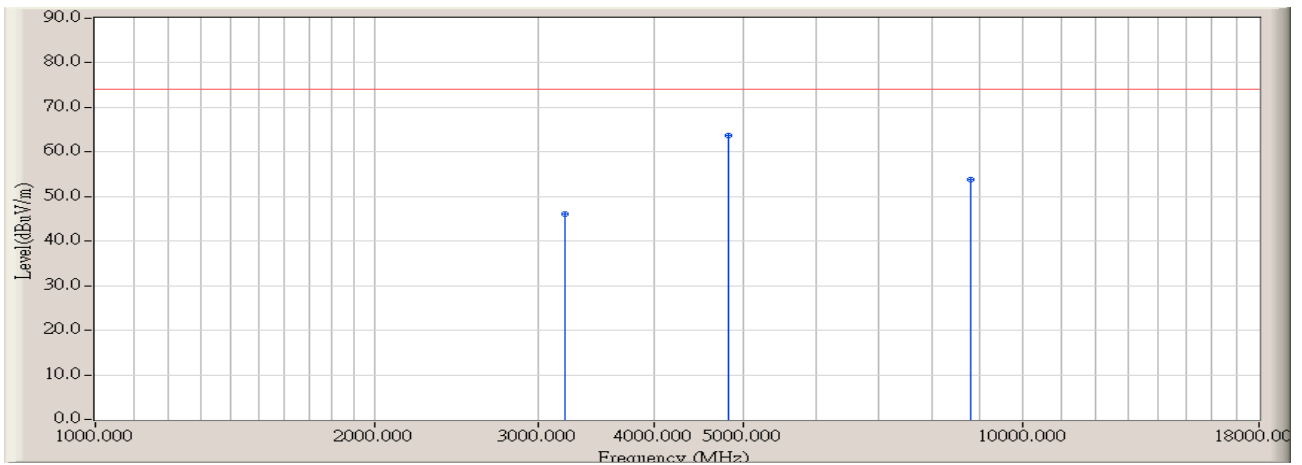


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	31.200	30.260	-23.710	53.970	AVERAGE	106.000	73.800
2	* 4825.000	2.700	48.300	51.000	-2.970	53.970	AVERAGE	100.000	128.000
3	9443.333	15.173	28.400	43.573	-10.397	53.970	AVERAGE	114.000	217.300

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

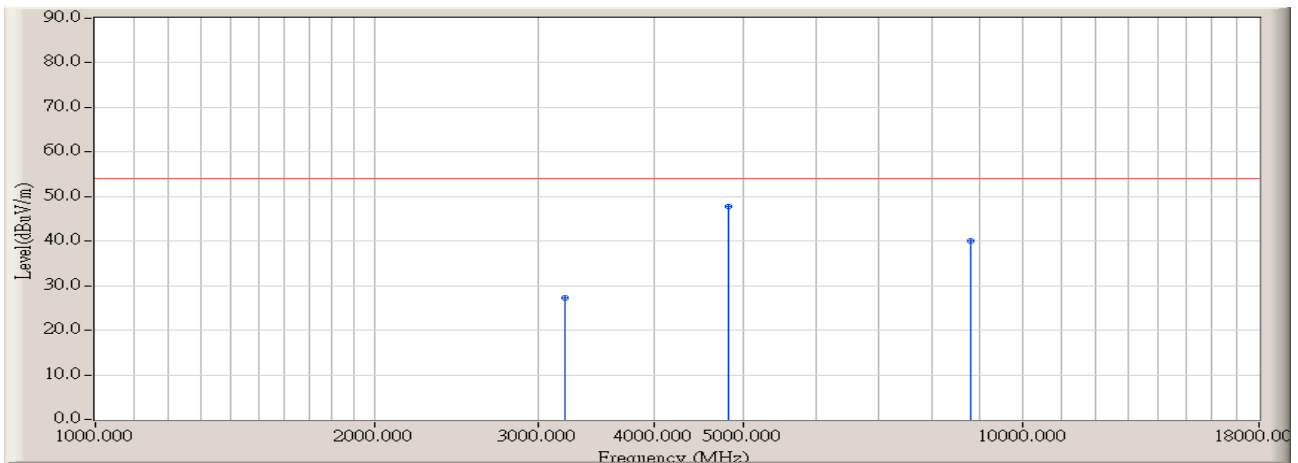


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	46.987	46.047	-27.923	73.970	PEAK	100.000	103.000
2	* 4825.000	2.700	61.088	63.788	-10.182	73.970	PEAK	106.000	132.500
3	8791.667	14.391	39.302	53.692	-20.278	73.970	PEAK	113.000	108.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:25
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

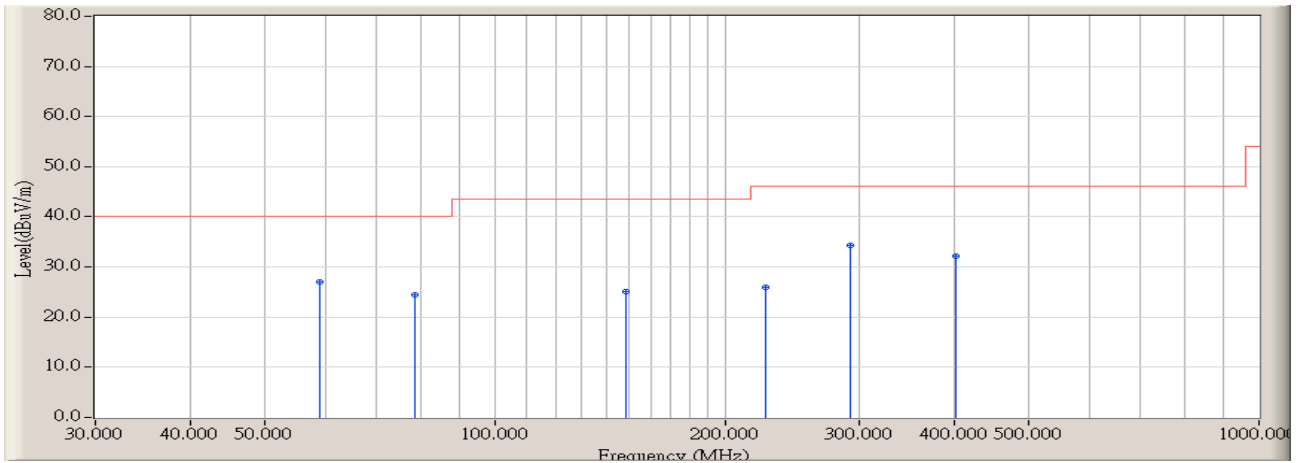


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	28.300	27.360	-26.610	53.970	AVERAGE	100.000	103.000
2	* 4825.000	2.700	45.100	47.800	-6.170	53.970	AVERAGE	106.000	132.500
3	8791.667	14.391	25.700	40.090	-13.880	53.970	AVERAGE	113.000	108.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 14:39
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

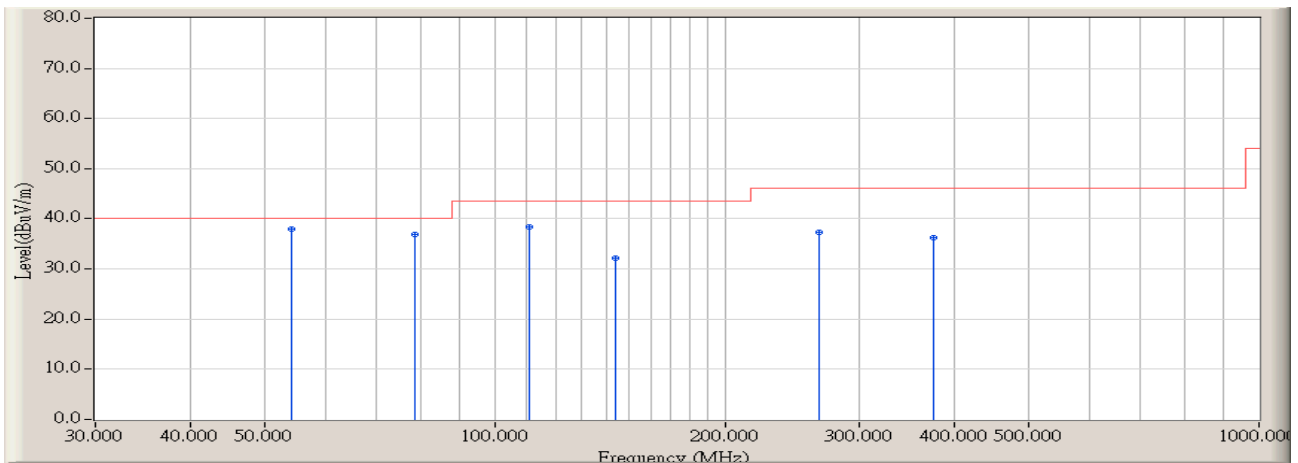


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	59.100	-16.411	43.500	27.089	-12.911	40.000	QUASIPeAK	216.500	116.700
2	78.500	-15.614	40.100	24.486	-15.514	40.000	QUASIPeAK	142.000	77.600
3	148.725	-11.781	36.900	25.119	-18.401	43.520	QUASIPeAK	113.000	215.000
4	226.250	-12.503	38.500	25.997	-20.023	46.020	QUASIPeAK	147.000	93.400
5	* 291.650	-8.665	42.900	34.234	-11.786	46.020	QUASIPeAK	110.400	226.500
6	401.725	-4.980	37.200	32.220	-13.800	46.020	QUASIPeAK	243.000	93.300

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 14:44
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

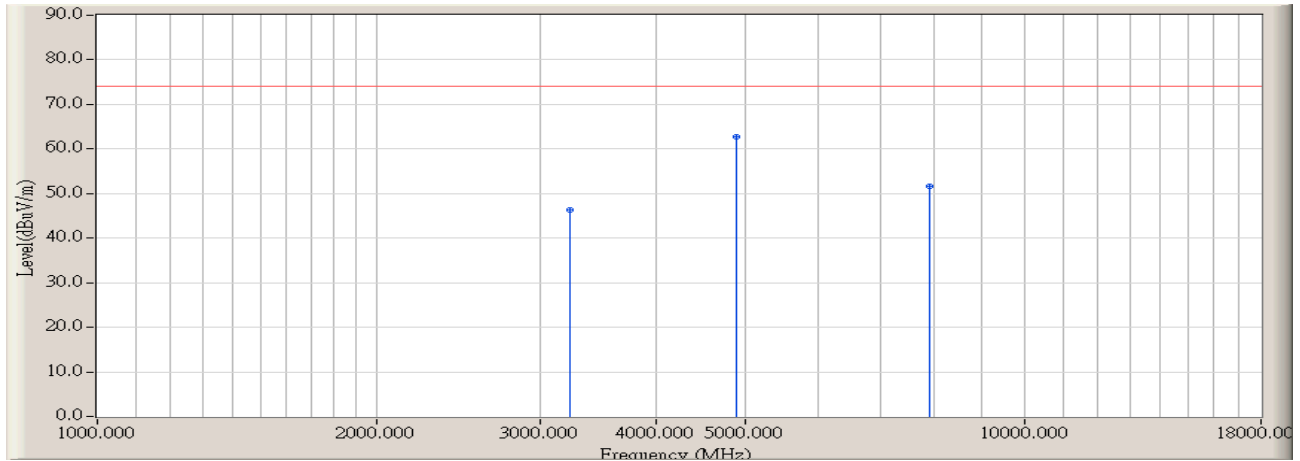


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	54.250	-15.691	53.700	38.009	-1.991	40.000	QUASIPeAK	100.000	86.500
2		78.750	-15.578	52.400	36.821	-3.179	40.000	QUASIPeAK	116.000	21.500
3		110.850	-10.230	48.600	38.371	-5.149	43.520	QUASIPeAK	105.300	74.000
4		143.975	-11.342	43.600	32.258	-11.262	43.520	QUASIPeAK	100.000	177.800
5		265.650	-8.987	46.200	37.213	-8.807	46.020	QUASIPeAK	106.000	216.500
6		375.250	-5.994	42.300	36.306	-9.714	46.020	QUASIPeAK	100.000	145.900

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

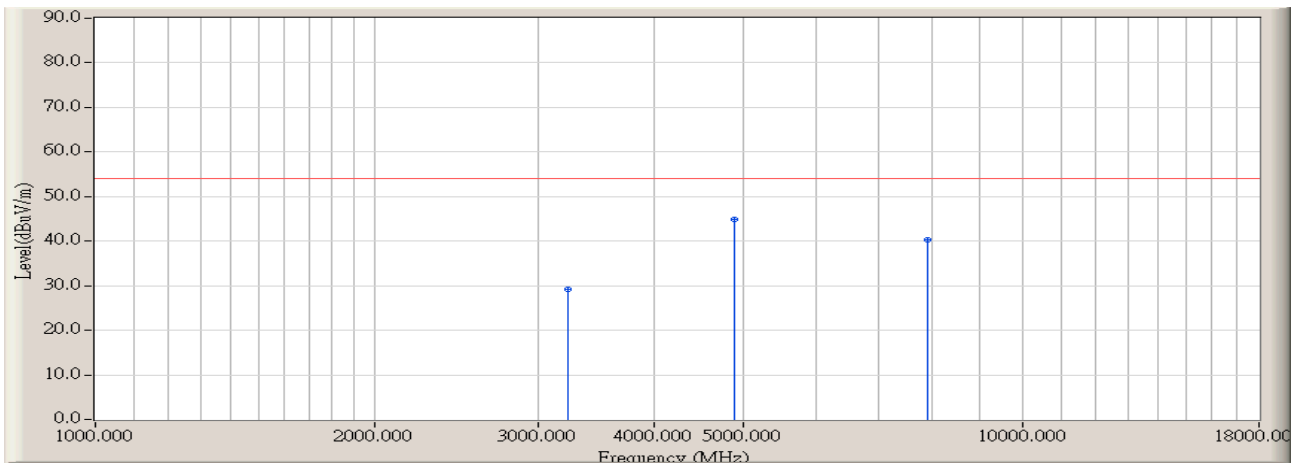


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	47.736	46.389	-27.581	73.970	PEAK	113.500	72.800
2	* 4881.667	3.140	59.508	62.648	-11.322	73.970	PEAK	104.000	152.000
3	7913.333	13.154	38.427	51.580	-22.390	73.970	PEAK	106.000	203.800

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



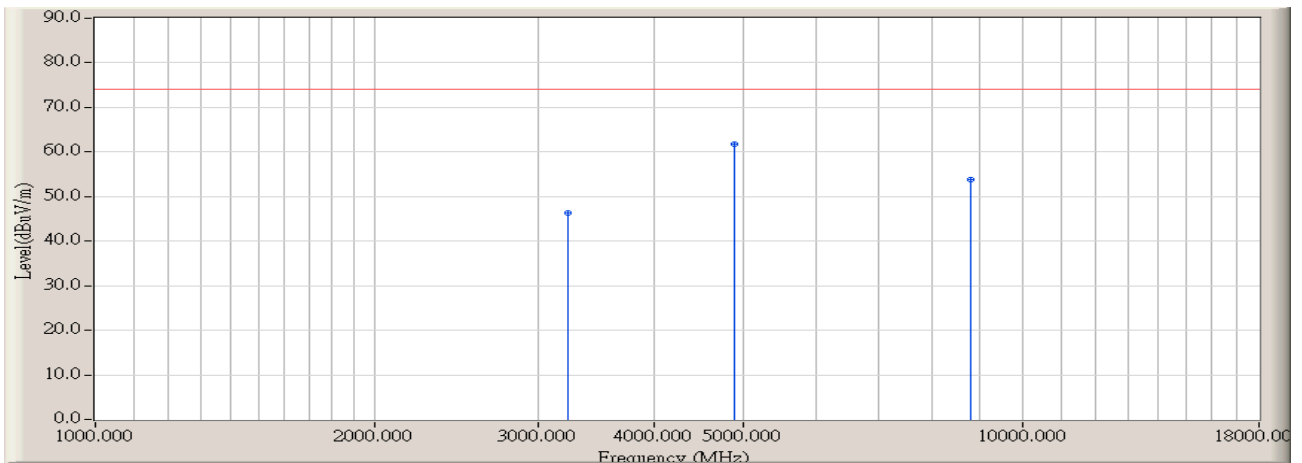
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	30.500	29.153	-24.817	53.970	AVERAGE	113.500	72.800
2	* 4881.667	3.140	41.800	44.940	-9.030	53.970	AVERAGE	104.000	152.000
3	7913.333	13.154	27.200	40.353	-13.617	53.970	AVERAGE	106.000	203.800

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

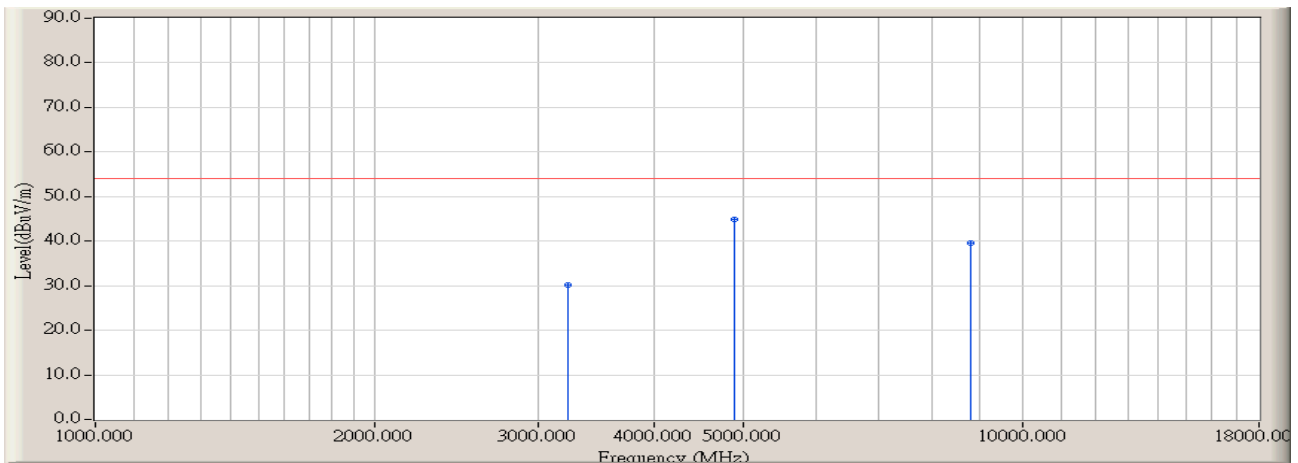


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	47.671	46.324	-27.646	73.970	PEAK	100.000	86.500
2	* 4881.667	3.140	58.641	61.781	-12.189	73.970	PEAK	103.000	155.000
3	8791.667	14.391	39.350	53.740	-20.230	73.970	PEAK	100.000	306.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

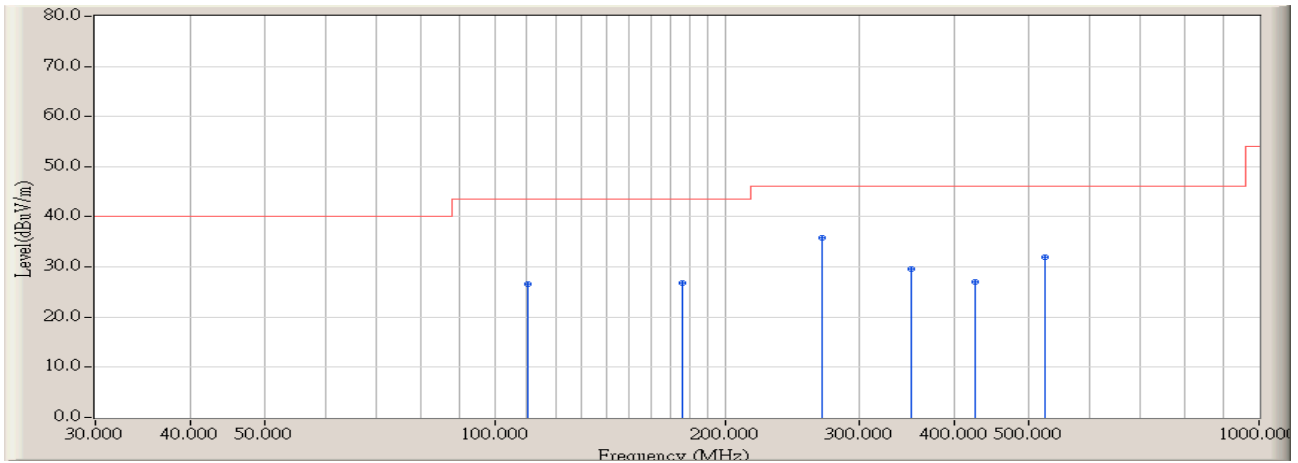


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	31.600	30.253	-23.717	53.970	AVERAGE	100.000	86.500
2	* 4881.667	3.140	41.800	44.940	-9.030	53.970	AVERAGE	103.000	155.000
3	8791.667	14.391	25.300	39.690	-14.280	53.970	AVERAGE	100.000	306.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 14:49
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

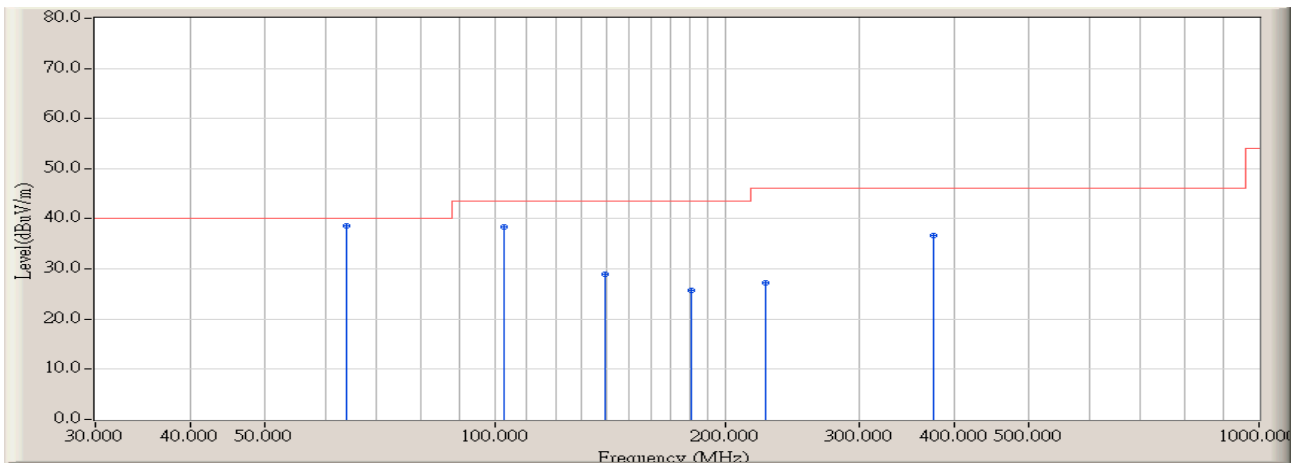


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	110.250	-10.246	36.800	26.554	-16.966	43.520	QUASIPeAK	125.000	77.900
2	175.575	-12.869	39.600	26.732	-16.788	43.520	QUASIPeAK	100.000	49.200
3	* 267.650	-9.056	44.800	35.744	-10.276	46.020	QUASIPeAK	174.000	342.000
4	350.250	-6.800	36.400	29.599	-16.421	46.020	QUASIPeAK	203.000	88.600
5	425.750	-4.434	31.500	27.066	-18.954	46.020	QUASIPeAK	115.000	93.400
6	524.725	-2.727	34.600	31.873	-14.147	46.020	QUASIPeAK	109.000	69.400

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 14:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

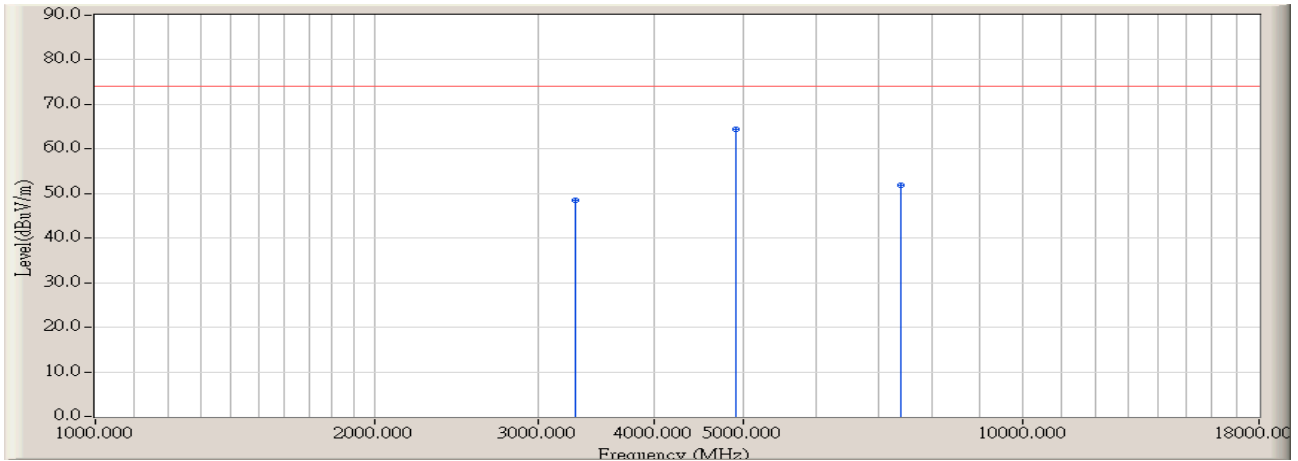


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	63.950	-16.652	55.200	38.548	-1.452	40.000	QUASIPeAK	100.000	183.000
2		102.750	-11.069	49.500	38.431	-5.089	43.520	QUASIPeAK	114.000	226.500
3		139.250	-10.921	39.800	28.879	-14.641	43.520	QUASIPeAK	100.000	88.300
4		180.500	-13.150	38.800	25.651	-17.869	43.520	QUASIPeAK	204.000	184.600
5		226.425	-12.479	39.800	27.321	-18.699	46.020	QUASIPeAK	100.000	75.900
6		375.425	-5.996	42.600	36.604	-9.416	46.020	QUASIPeAK	100.000	105.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

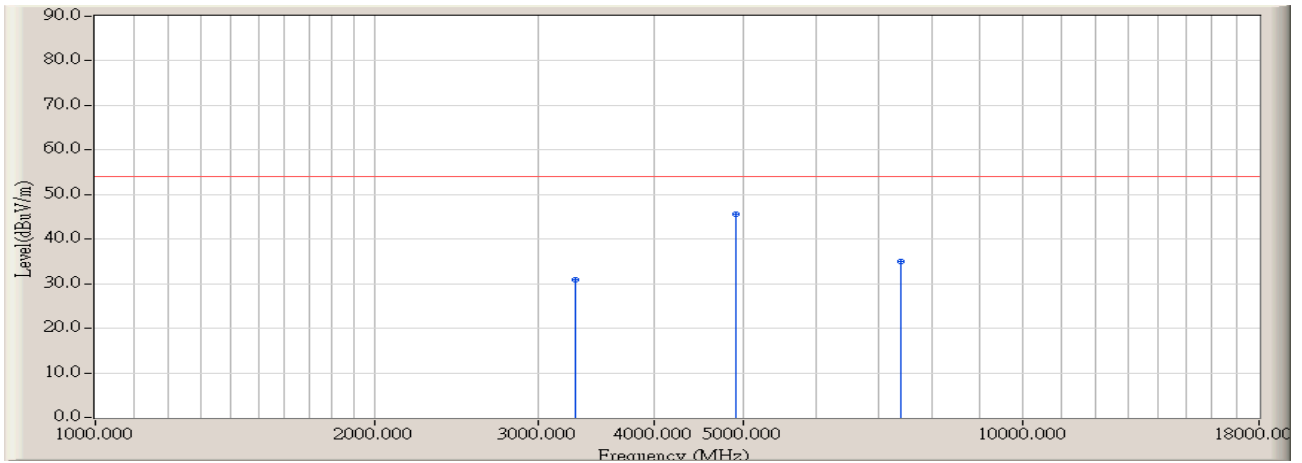


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	50.328	48.428	-25.542	73.970	PEAK	116.400	43.800
2	* 4910.000	3.170	61.255	64.425	-9.545	73.970	PEAK	113.900	147.000
3	7403.333	12.333	39.627	51.960	-22.010	73.970	PEAK	108.000	218.500

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

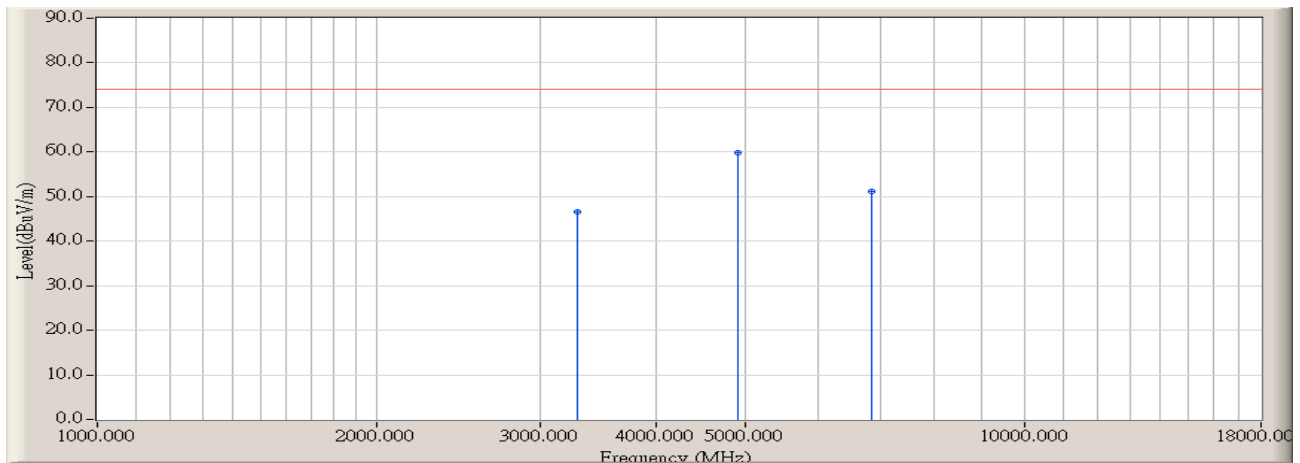


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	32.800	30.900	-23.070	53.970	AVERAGE	116.400	43.800
2	* 4910.000	3.170	42.500	45.670	-8.300	53.970	AVERAGE	113.900	147.000
3	7403.333	12.333	22.700	35.033	-18.937	53.970	AVERAGE	108.000	218.500

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

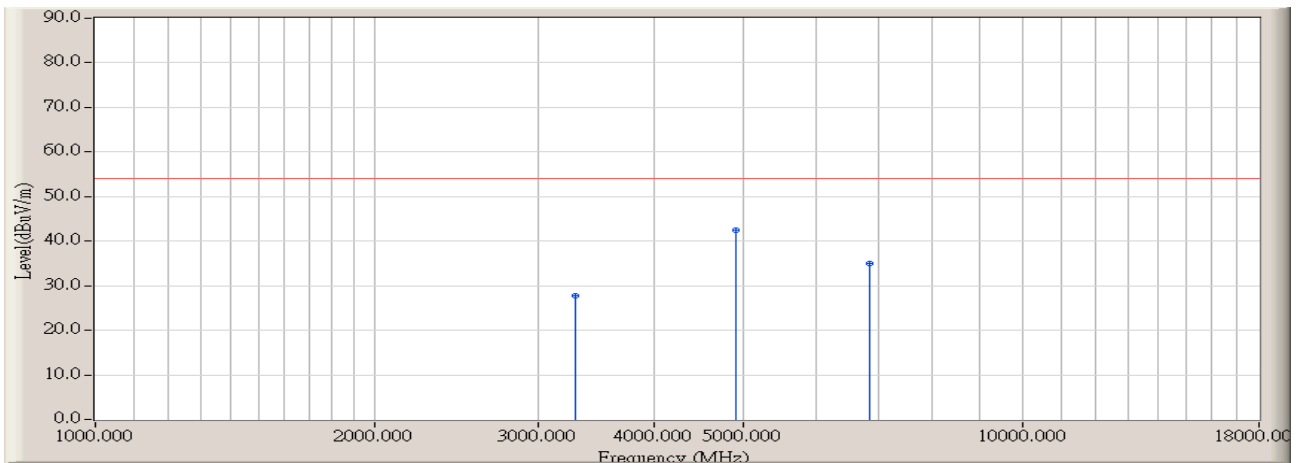


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	48.400	46.500	-27.470	73.970	PEAK	107.000	38.400
2	* 4910.000	3.170	56.639	59.809	-14.161	73.970	PEAK	100.000	102.800
3	6836.667	11.957	39.130	51.087	-22.883	73.970	PEAK	100.000	179.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



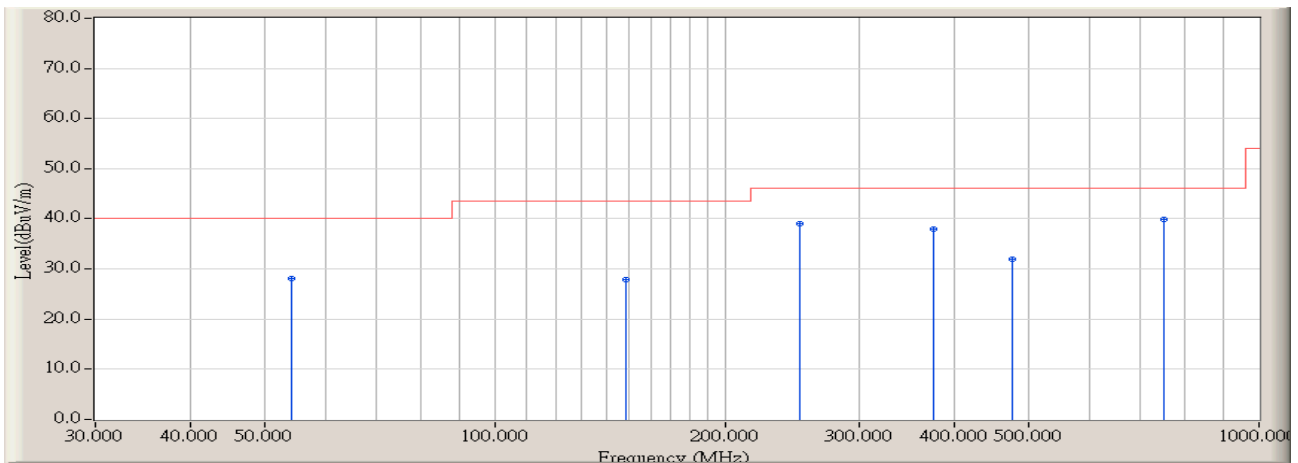
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	29.600	27.700	-26.270	53.970	AVERAGE	107.000	38.400
2	* 4910.000	3.170	39.300	42.470	-11.500	53.970	AVERAGE	100.000	102.800
3	6836.667	11.957	23.100	35.057	-18.913	53.970	AVERAGE	100.000	179.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:03
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

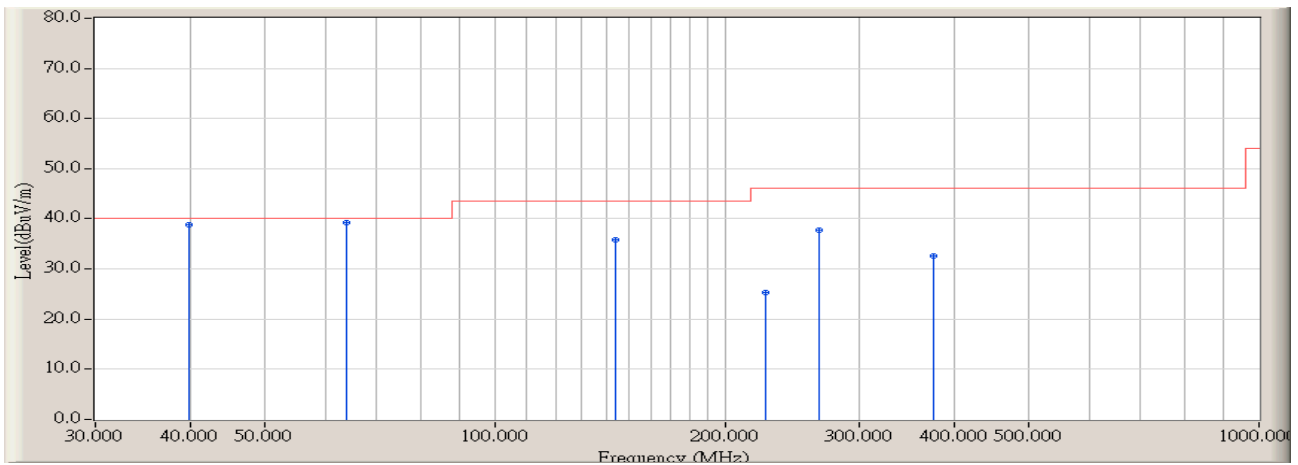


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	54.250	-15.691	43.700	28.009	-11.991	40.000	QUASIPeAK	106.000	93.000
2	148.525	-11.765	39.700	27.935	-15.585	43.520	QUASIPeAK	134.000	226.000
3	250.750	-9.514	48.500	38.986	-7.034	46.020	QUASIPeAK	100.000	65.800
4	375.350	-5.996	43.900	37.904	-8.116	46.020	QUASIPeAK	108.000	145.600
5	476.500	-3.447	35.300	31.853	-14.167	46.020	QUASIPeAK	117.900	95.800
6	* 750.525	0.131	39.800	39.931	-6.089	46.020	QUASIPeAK	108.000	46.900

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:07
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

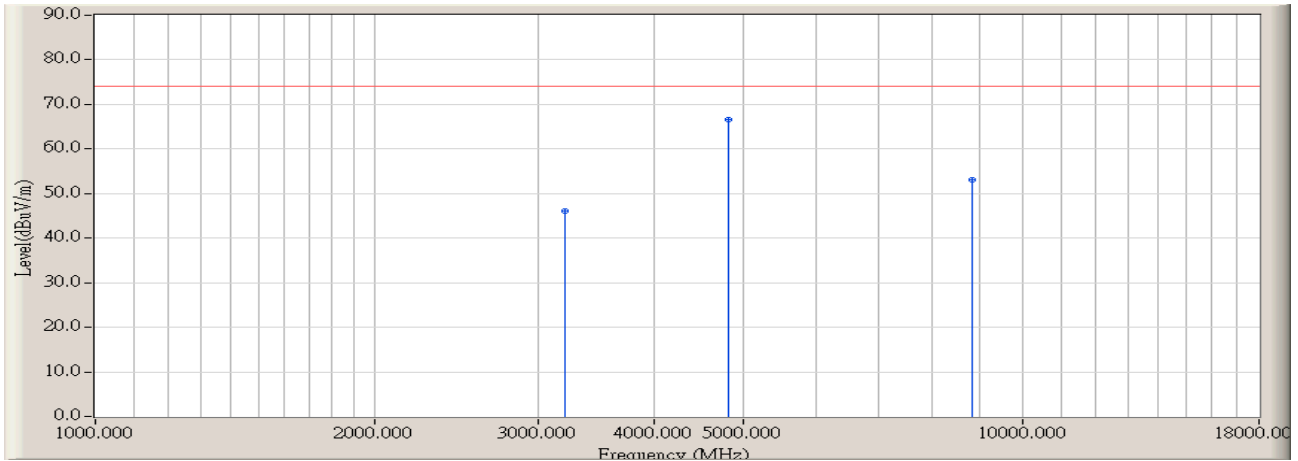


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	39.750	-9.998	48.800	38.802	-1.198	40.000	QUASIPeAK	105.000	74.900
2	* 63.950	-16.652	55.900	39.248	-0.752	40.000	QUASIPeAK	100.000	48.500
3	143.750	-11.318	47.200	35.882	-7.638	43.520	QUASIPeAK	100.000	146.700
4	226.450	-12.475	37.800	25.325	-20.695	46.020	QUASIPeAK	126.000	314.000
5	265.250	-8.975	46.700	37.725	-8.295	46.020	QUASIPeAK	100.000	304.000
6	375.350	-5.996	38.600	32.604	-13.416	46.020	QUASIPeAK	112.000	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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

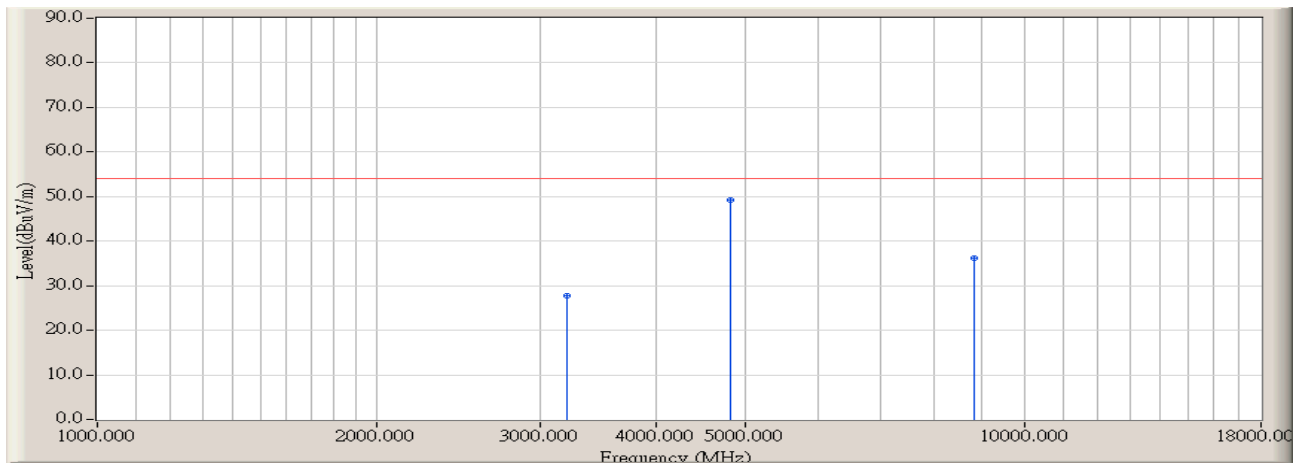


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	47.049	46.109	-27.861	73.970	PEAK	106.000	95.200
2	* 4825.000	2.700	63.999	66.699	-7.271	73.970	PEAK	115.000	186.000
3	8820.000	14.750	38.341	53.091	-20.879	73.970	PEAK	128.000	147.500

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

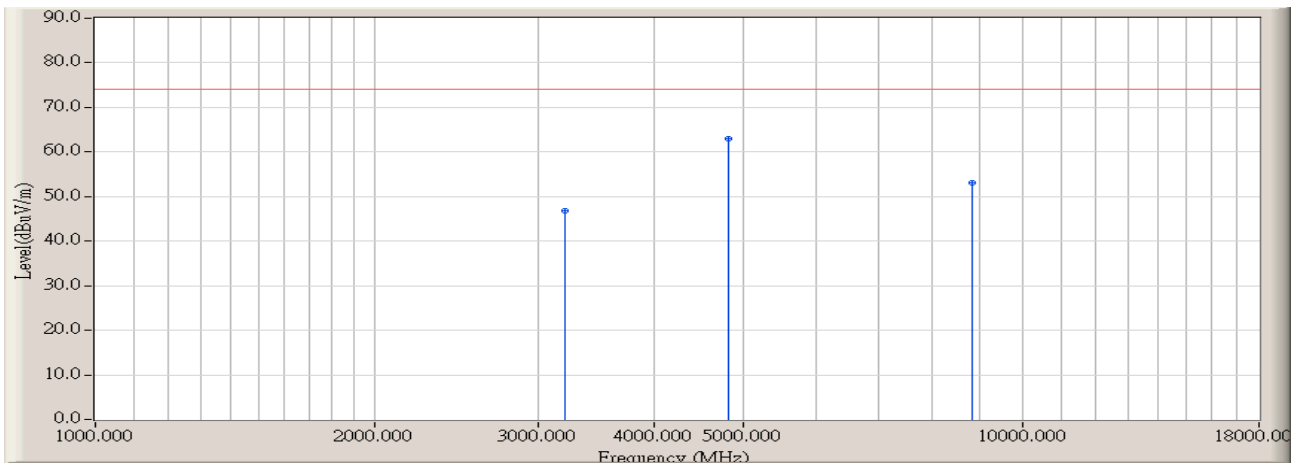


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	28.600	27.660	-26.310	53.970	AVERAGE	106.000	95.200
2	* 4825.000	2.700	46.500	49.200	-4.770	53.970	AVERAGE	115.000	186.000
3	8820.000	14.750	21.400	36.150	-17.820	53.970	AVERAGE	128.000	147.500

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

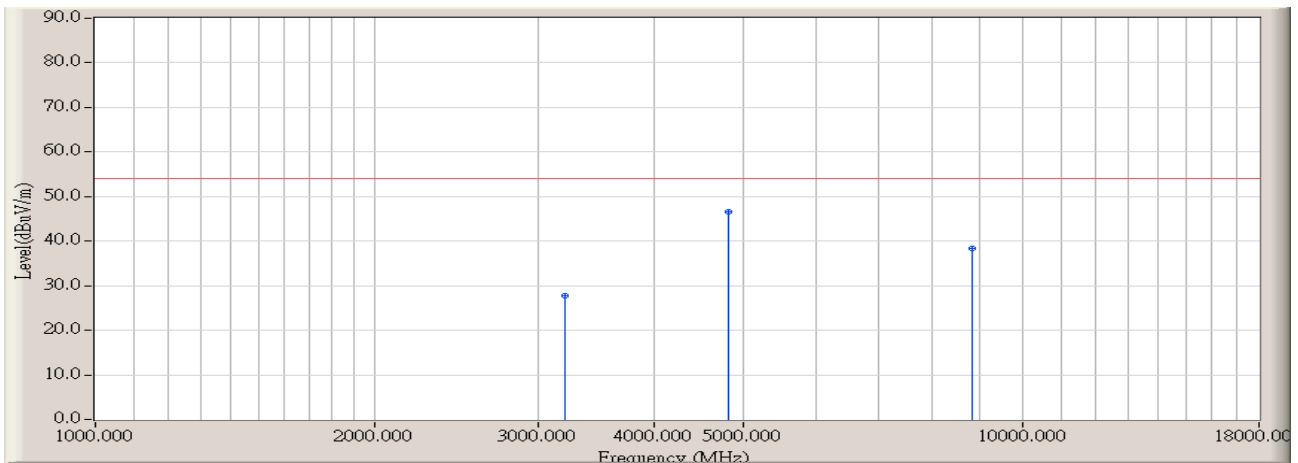


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	47.823	46.883	-27.087	73.970	PEAK	106.000	25.900
2	* 4825.000	2.700	60.378	63.078	-10.892	73.970	PEAK	100.000	159.700
3	8820.000	14.750	38.376	53.126	-20.844	73.970	PEAK	103.000	118.900

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:45
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

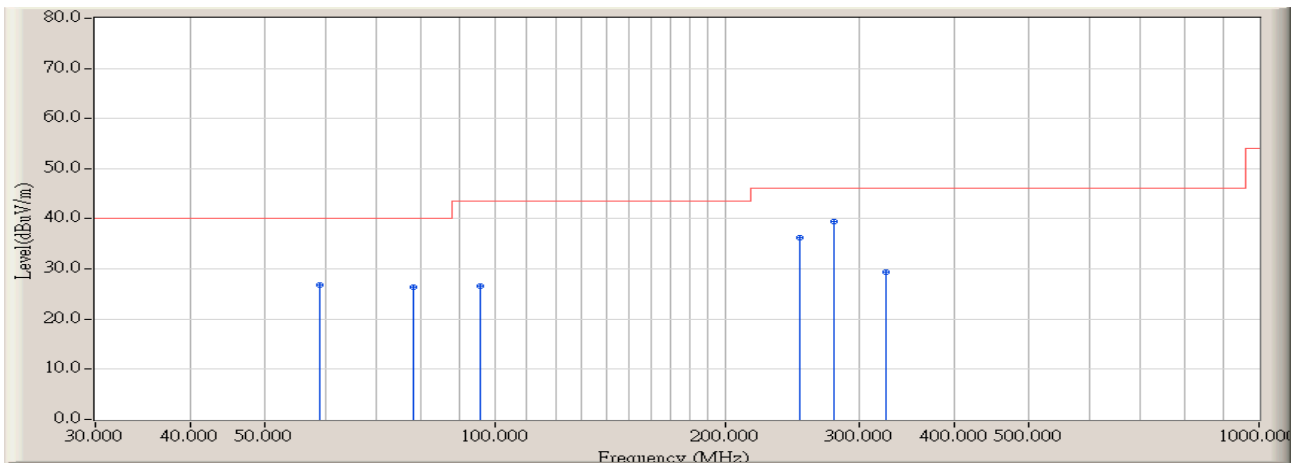


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-0.940	28.700	27.760	-26.210	53.970	AVERAGE	106.000	25.900
2	* 4825.000	2.700	43.800	46.500	-7.470	53.970	AVERAGE	100.000	159.700
3	8820.000	14.750	23.500	38.250	-15.720	53.970	AVERAGE	103.000	118.900

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:14
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

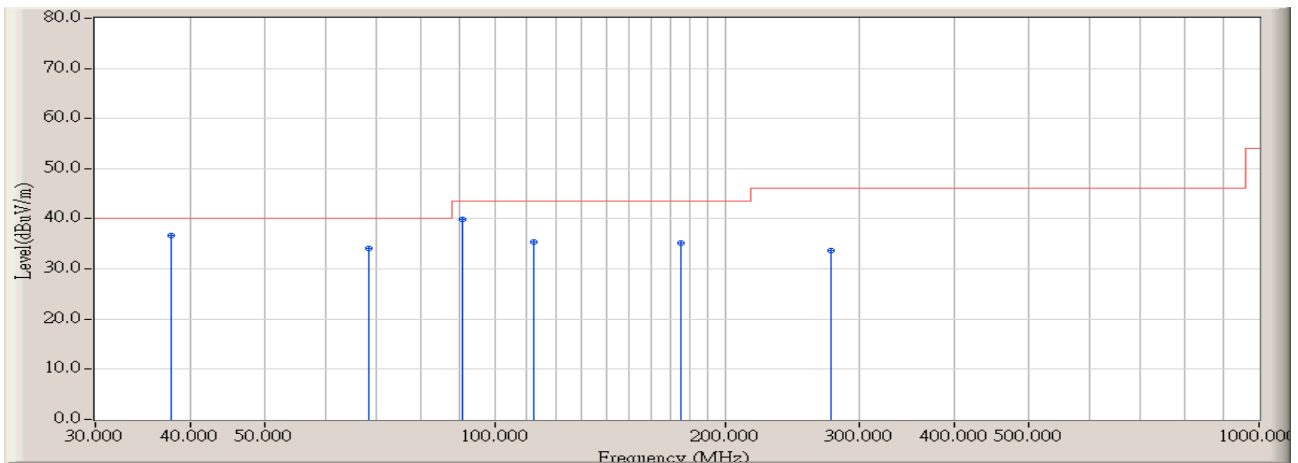


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	59.100	-16.411	43.200	26.789	-13.211	40.000	QUASIPeAK	210.500	112.400
2	78.250	-15.649	42.100	26.450	-13.550	40.000	QUASIPeAK	123.600	81.500
3	95.750	-12.079	38.700	26.621	-16.899	43.520	QUASIPeAK	144.500	90.700
4	250.625	-9.519	45.700	36.180	-9.840	46.020	QUASIPeAK	140.800	100.800
5	* 277.575	-8.904	48.400	39.495	-6.525	46.020	QUASIPeAK	158.400	76.900
6	325.500	-7.598	36.900	29.302	-16.718	46.020	QUASIPeAK	105.000	116.800

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:20
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



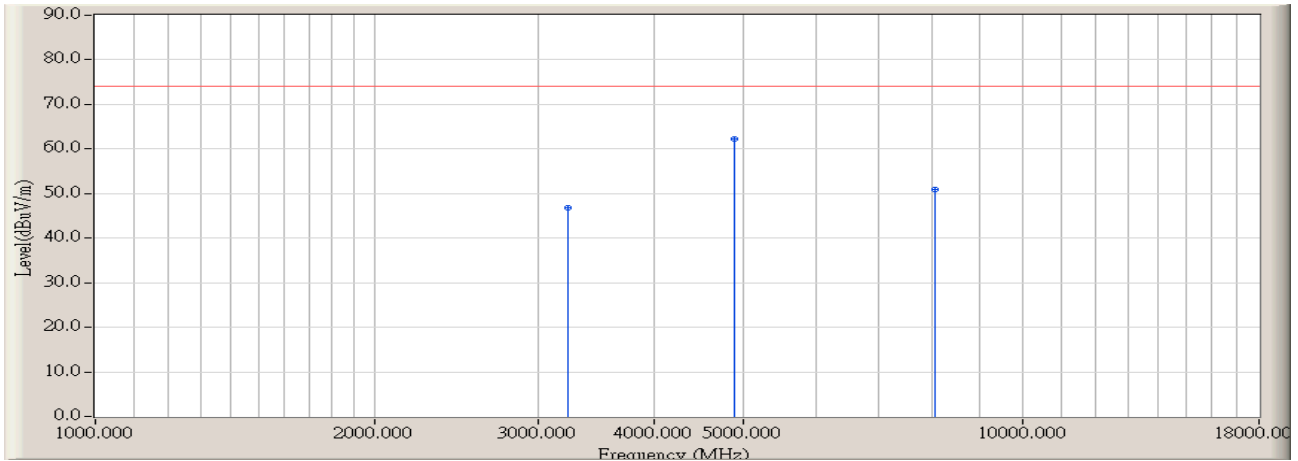
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.725	-8.920	45.500	36.580	-3.420	40.000	QUASIPeAK	100.000	73.900
2		68.250	-16.614	50.800	34.186	-5.814	40.000	QUASIPeAK	109.500	118.400
3		90.650	-13.129	53.100	39.971	-3.549	43.520	QUASIPeAK	142.600	116.800
4		112.450	-10.234	45.700	35.466	-8.054	43.520	QUASIPeAK	100.000	94.800
5		175.500	-12.863	48.100	35.237	-8.283	43.520	QUASIPeAK	113.800	94.800
6		275.850	-8.948	42.700	33.753	-12.267	46.020	QUASIPeAK	100.000	153.800

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

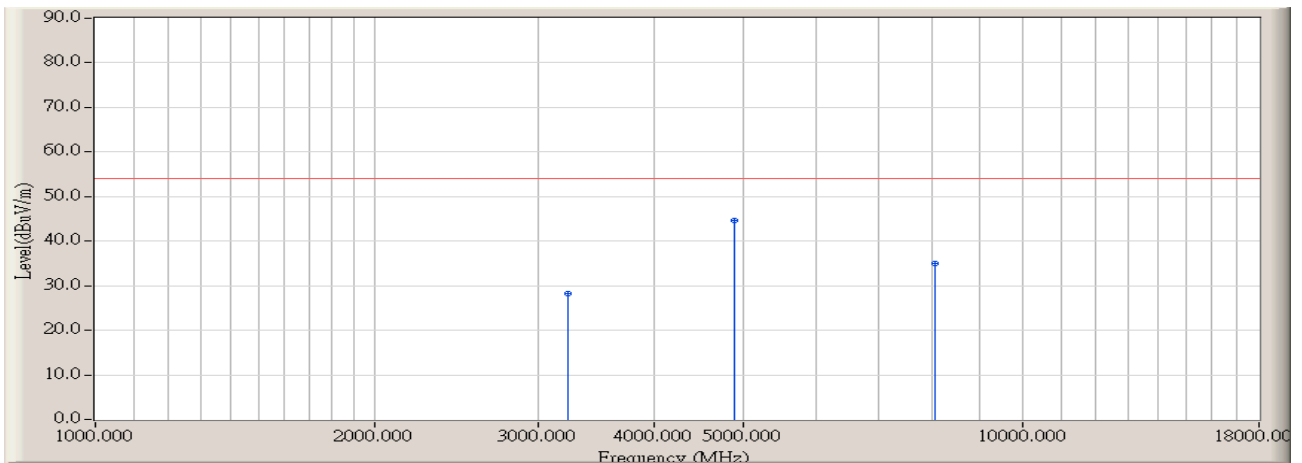


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	48.096	46.749	-27.221	73.970	PEAK	117.900	64.500
2	* 4881.667	3.140	59.150	62.290	-11.680	73.970	PEAK	104.500	236.000
3	8055.000	13.380	37.536	50.916	-23.054	73.970	PEAK	103.100	248.500

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:48
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

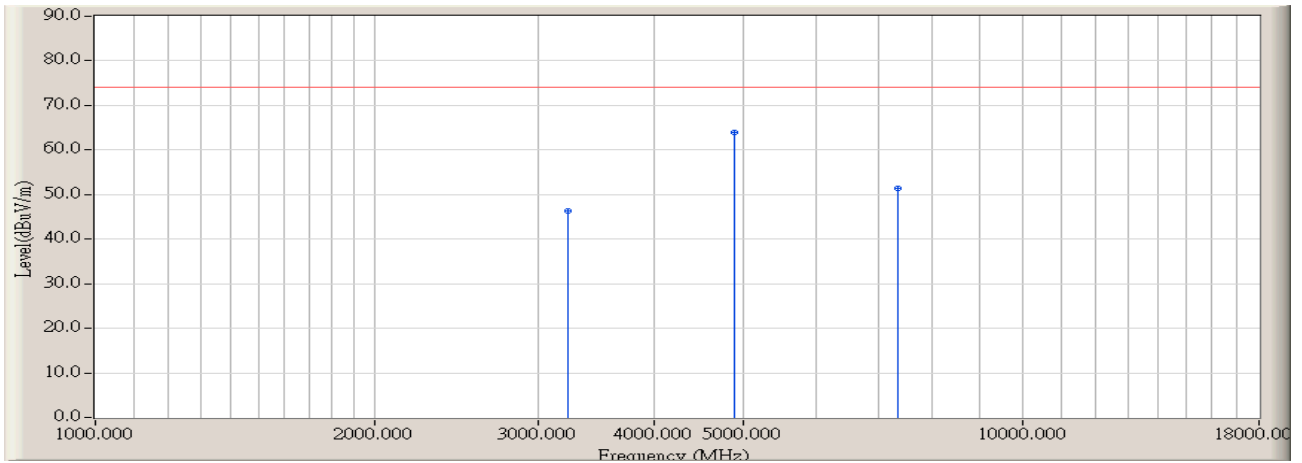


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	29.600	28.253	-25.717	53.970	AVERAGE	117.900	64.500
2	* 4881.667	3.140	41.500	44.640	-9.330	53.970	AVERAGE	104.500	236.000
3	8055.000	13.380	21.700	35.080	-18.890	53.970	AVERAGE	103.100	248.500

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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

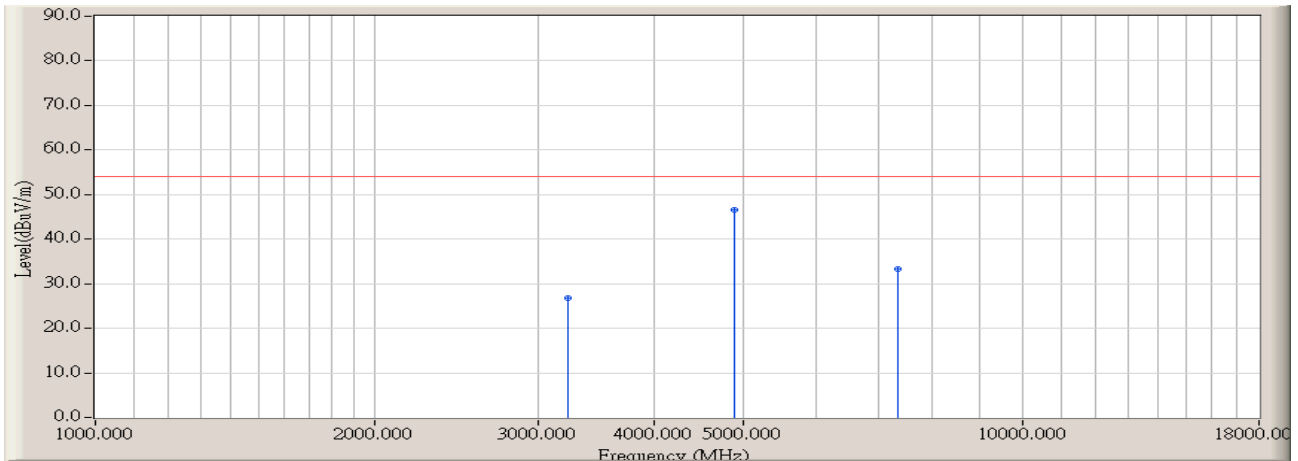


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	47.782	46.435	-27.535	73.970	PEAK	157.900	91.500
2	* 4881.667	3.140	60.895	64.035	-9.935	73.970	PEAK	100.000	126.000
3	7346.667	12.606	38.684	51.291	-22.679	73.970	PEAK	113.400	218.000

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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

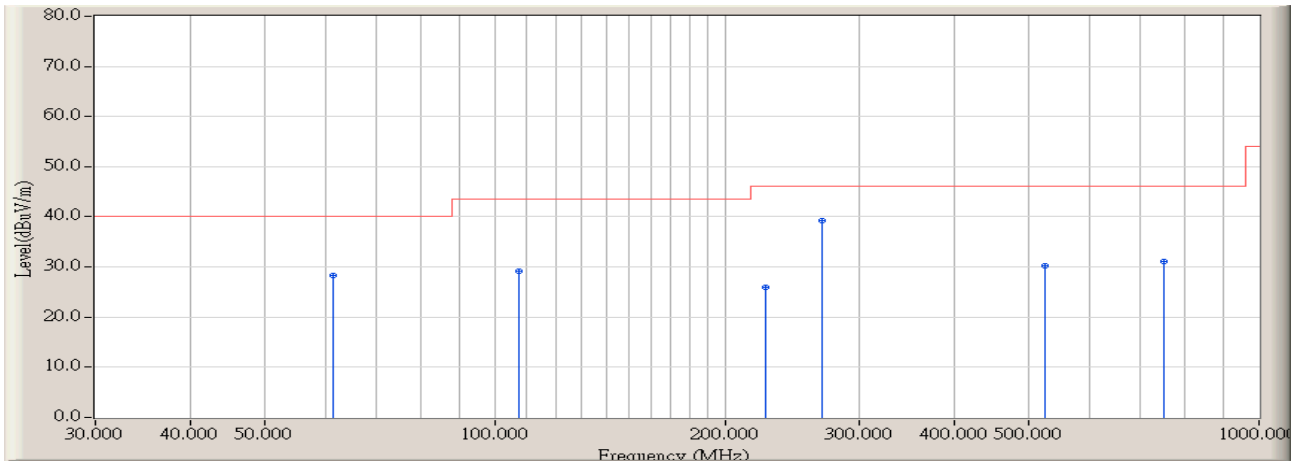


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3238.333	-1.347	28.200	26.853	-27.117	53.970	AVERAGE	157.900	91.500
2	* 4881.667	3.140	43.500	46.640	-7.330	53.970	AVERAGE	100.000	126.000
3	7346.667	12.606	20.800	33.407	-20.563	53.970	AVERAGE	113.400	218.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:27
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

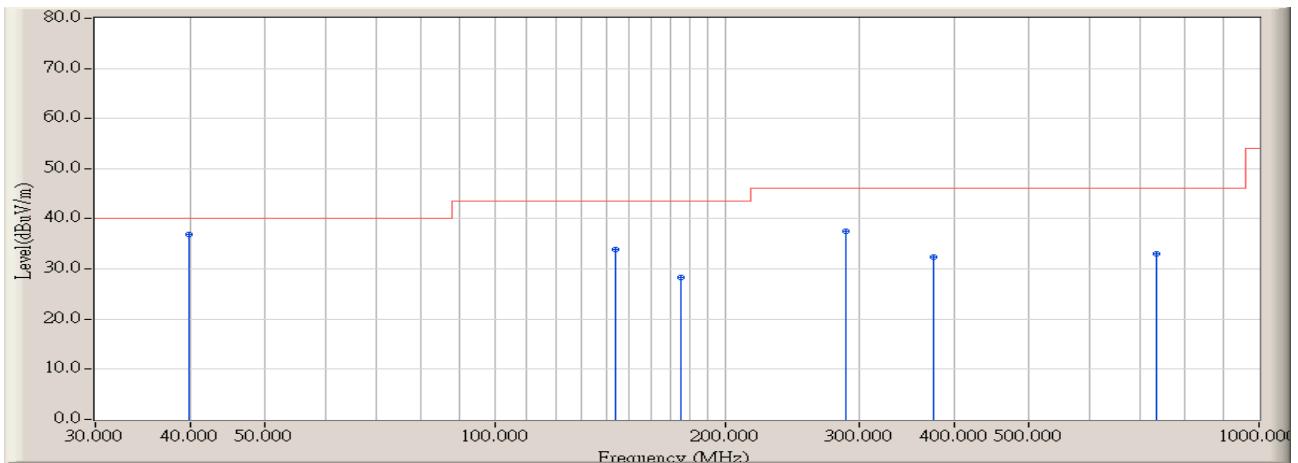


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	61.500	-16.529	44.800	28.271	-11.729	40.000	QUASIPeAK	100.000	94.800
2	107.600	-10.474	39.700	29.226	-14.294	43.520	QUASIPeAK	143.800	215.000
3	226.450	-12.475	38.500	26.025	-19.995	46.020	QUASIPeAK	106.400	76.800
4	* 267.565	-9.054	48.400	39.346	-6.674	46.020	QUASIPeAK	126.000	205.000
5	525.750	-2.732	32.900	30.169	-15.851	46.020	QUASIPeAK	117.000	83.400
6	750.250	0.128	30.900	31.028	-14.992	46.020	QUASIPeAK	146.800	59.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/18 - 15:33
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : NETPASSAGE NP25G	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

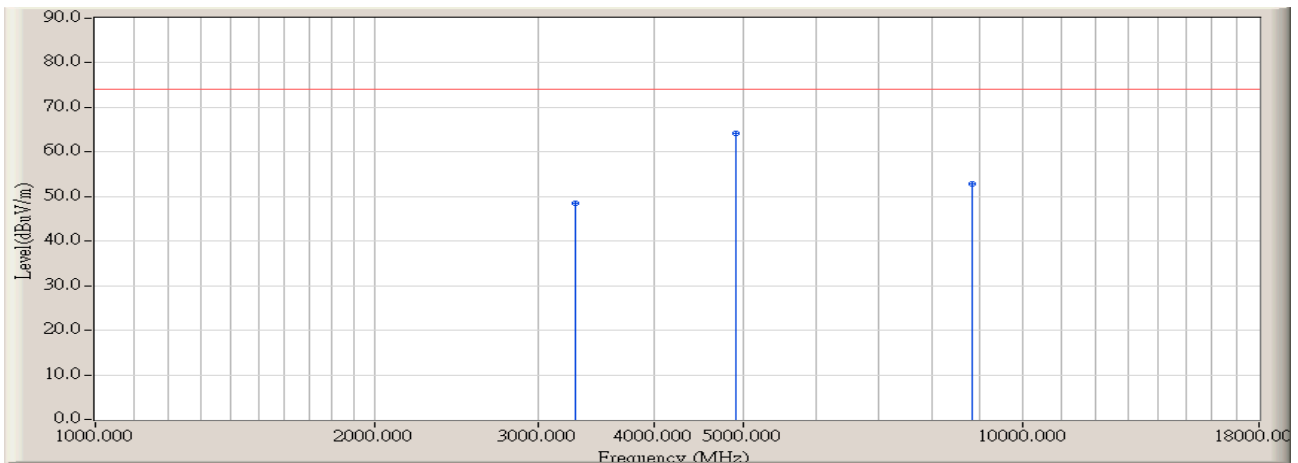


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	39.750	-9.998	46.800	36.802	-3.198	40.000	QUASIPeAK	100.000	49.600
2		143.950	-11.340	45.200	33.861	-9.659	43.520	QUASIPeAK	106.500	81.300
3		175.500	-12.863	41.200	28.337	-15.183	43.520	QUASIPeAK	100.000	63.400
4		287.500	-8.760	46.200	37.440	-8.580	46.020	QUASIPeAK	100.000	73.800
5		375.500	-5.997	38.400	32.403	-13.617	46.020	QUASIPeAK	100.000	139.800
6		735.650	0.253	32.800	33.053	-12.967	46.020	QUASIPeAK	107.500	136.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

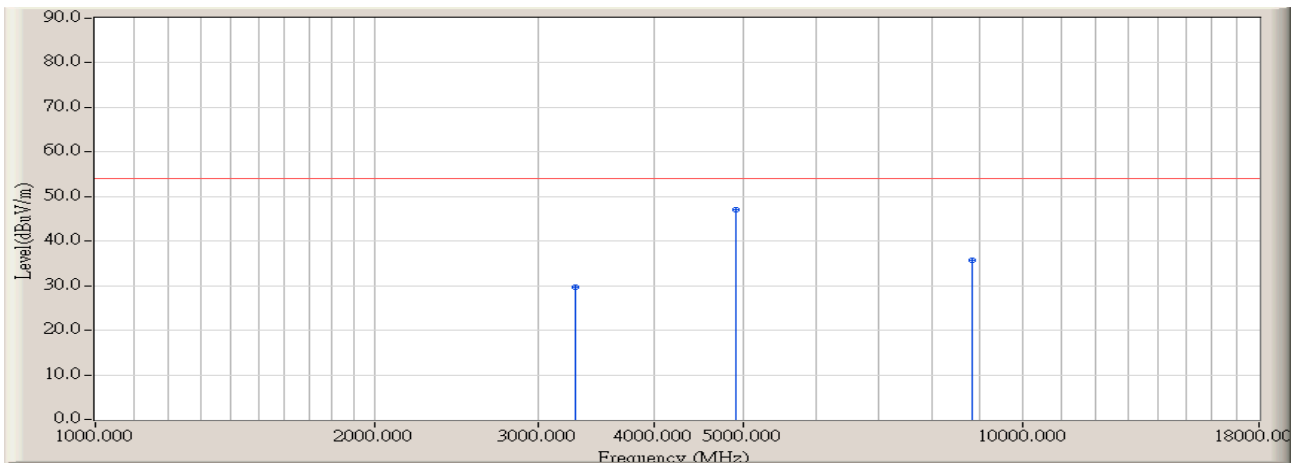


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	50.315	48.415	-25.555	73.970	PEAK	126.000	119.000
2	* 4910.000	3.170	61.089	64.259	-9.711	73.970	PEAK	109.000	254.000
3	8820.000	14.750	38.101	52.851	-21.119	73.970	PEAK	100.000	315.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:54
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



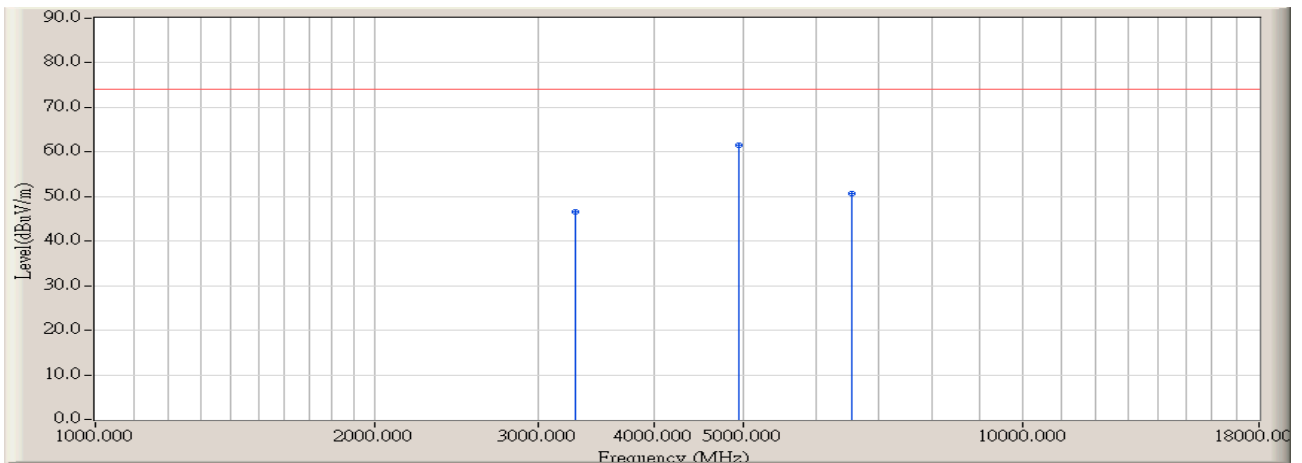
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	31.500	29.600	-24.370	53.970	AVERAGE	126.000	119.000
2	* 4910.000	3.170	43.800	46.970	-7.000	53.970	AVERAGE	109.000	254.000
3	8820.000	14.750	21.000	35.750	-18.220	53.970	AVERAGE	100.000	315.000

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

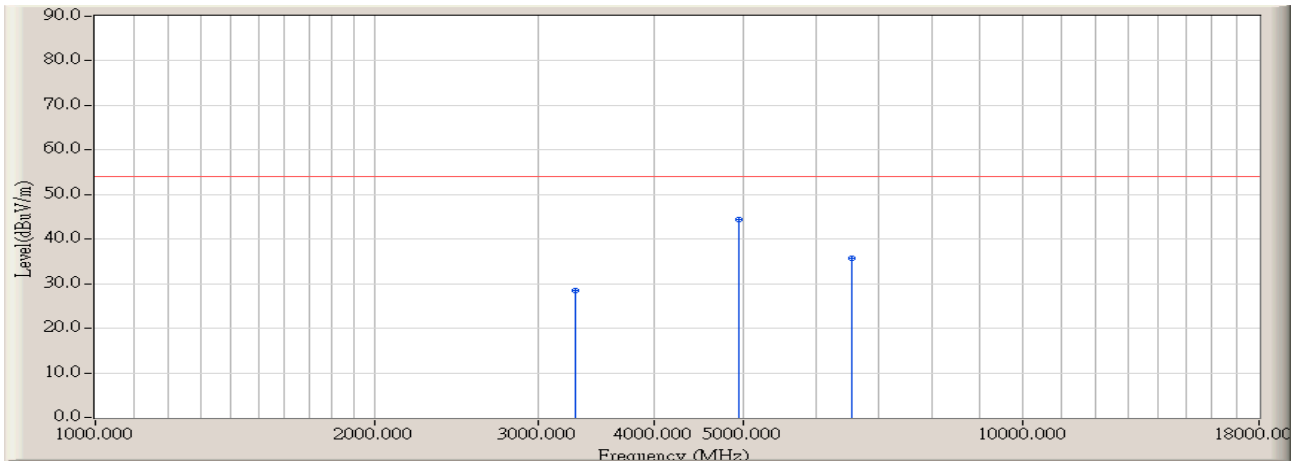


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3295.000	-1.900	48.406	46.506	-27.464	73.970	PEAK	100.000	148.000
2	* 4938.333	3.196	58.251	61.448	-12.522	73.970	PEAK	100.000	143.000
3	6553.333	11.403	39.246	50.649	-23.321	73.970	PEAK	112.000	42.600

**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 : AC2 (3m Semi-Anechoic Chamber)	Time : 2008/03/19 - 16:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	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	-1.900	30.400	28.500	-25.470	53.970	AVERAGE	100.000	148.000
2	* 4938.333	3.196	41.200	44.397	-9.573	53.970	AVERAGE	100.000	143.000
3	6553.333	11.403	24.300	35.703	-18.267	53.970	AVERAGE	112.000	42.600

**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

## 5. RF Antenna Conducted Spurious

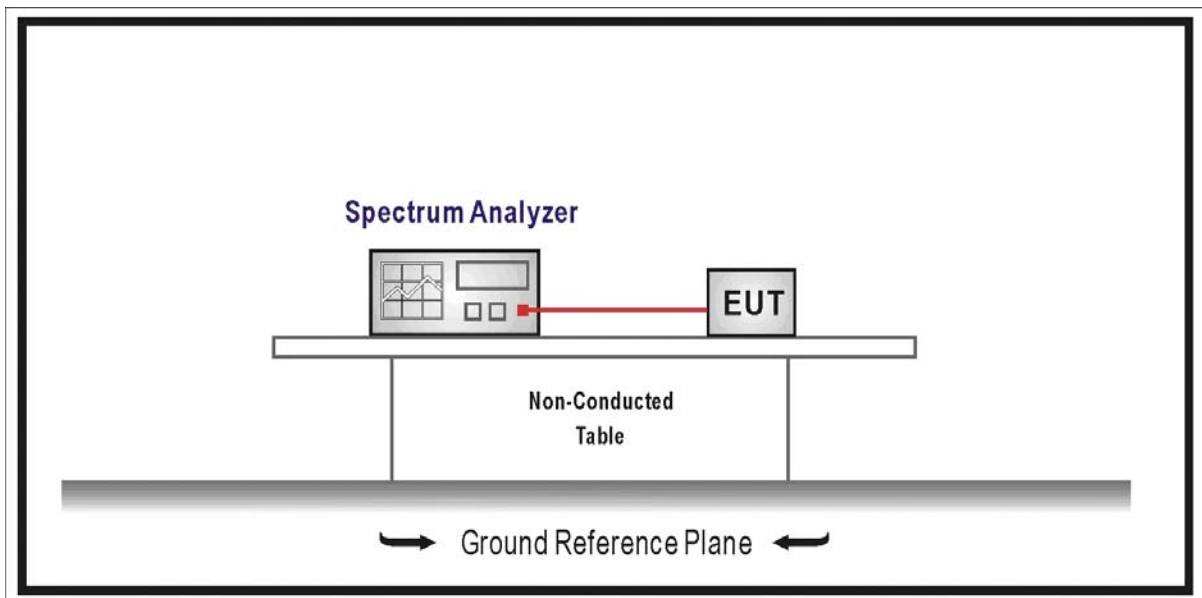
### 5.1. Test Equipment

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.

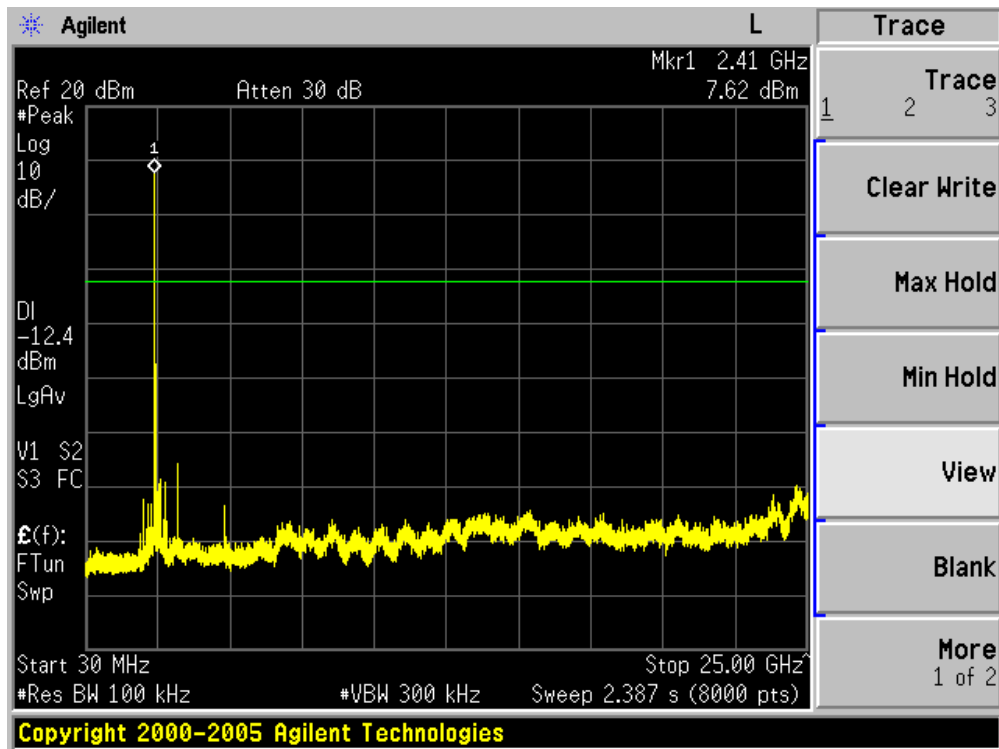
#### **5.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB

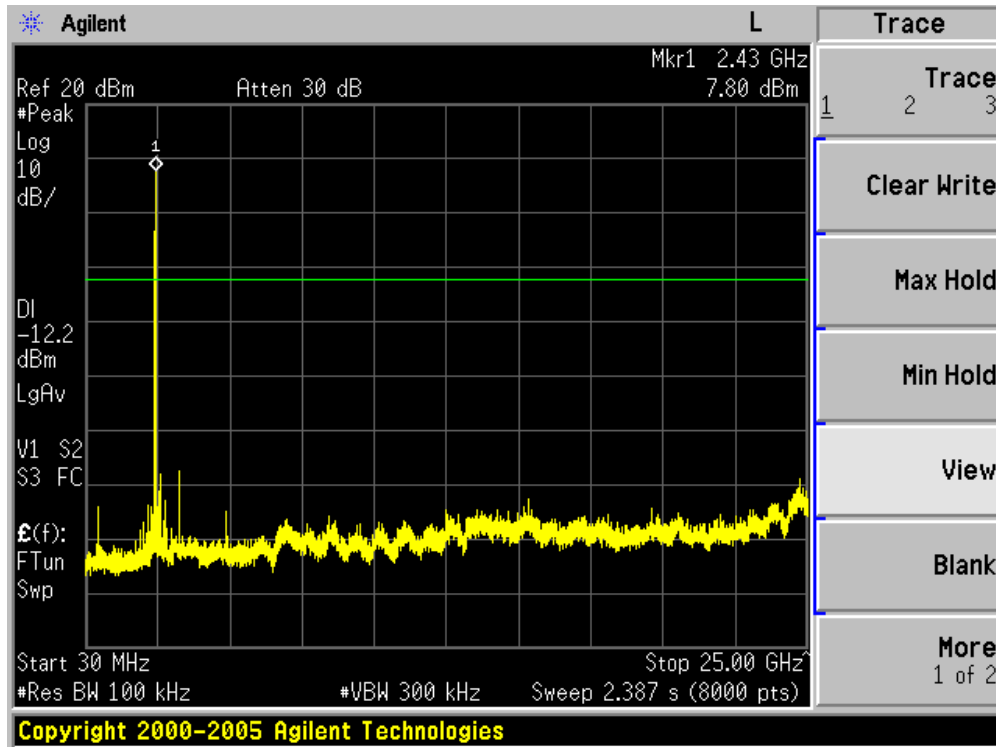
5.6. Test Result

Product	:	NETPASSAGE NP25G
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

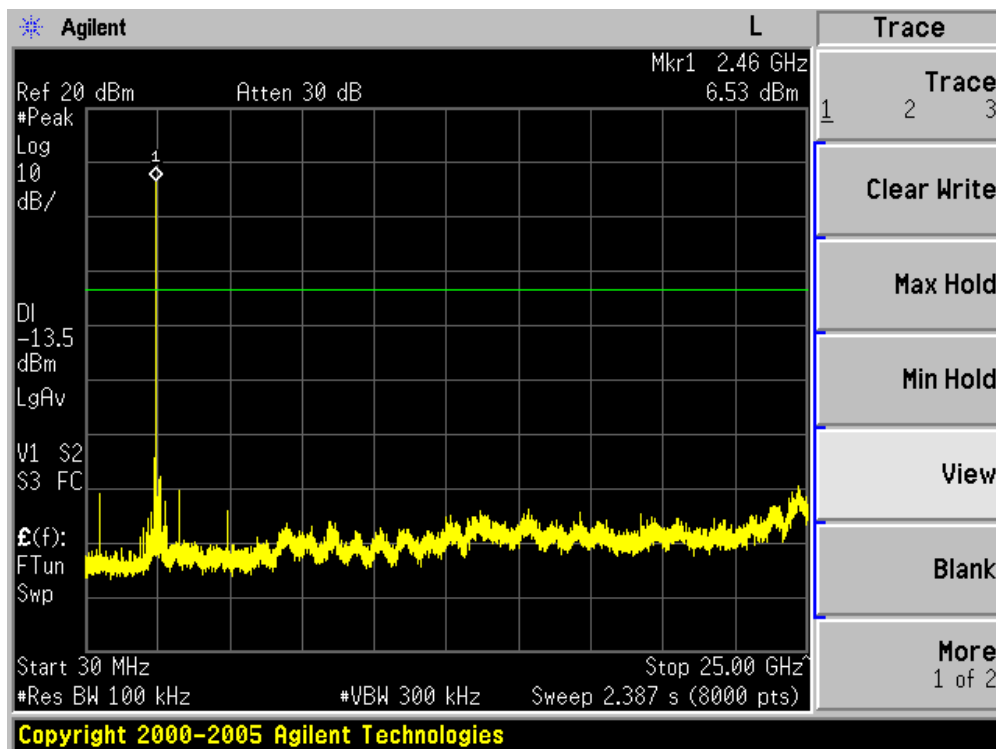
Channel 01 (2412MHz)



Channel 06 (2437MHz)

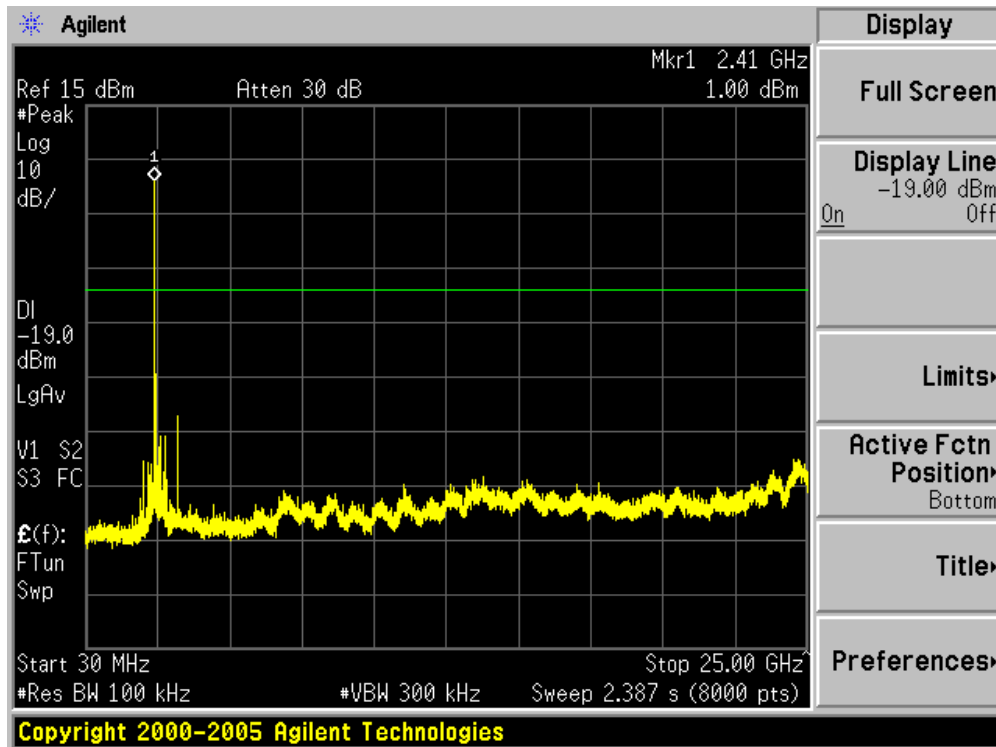


Channel 11 (2462MHz)

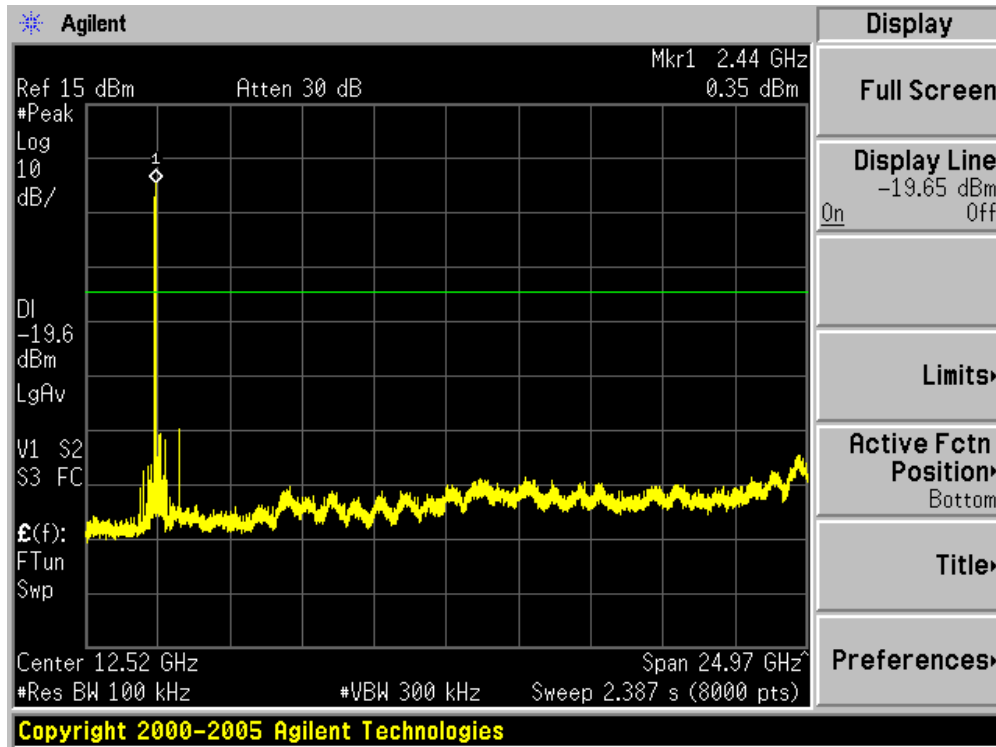


Product	:	NETPASSAGE NP25G
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

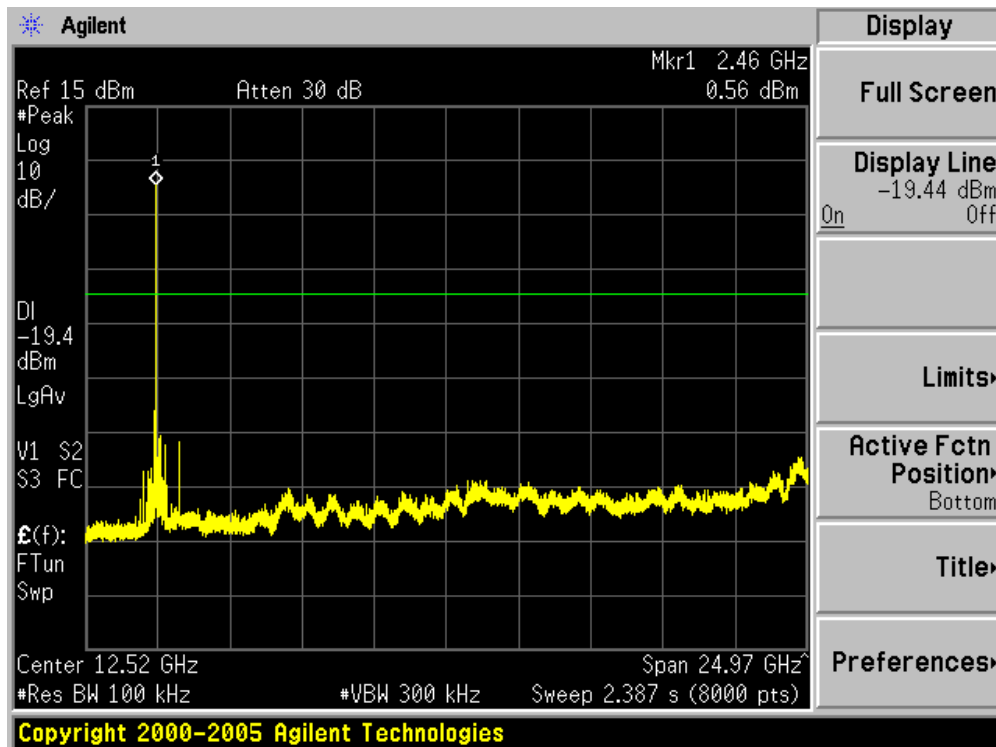
Channel 01 (2412MHz)



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

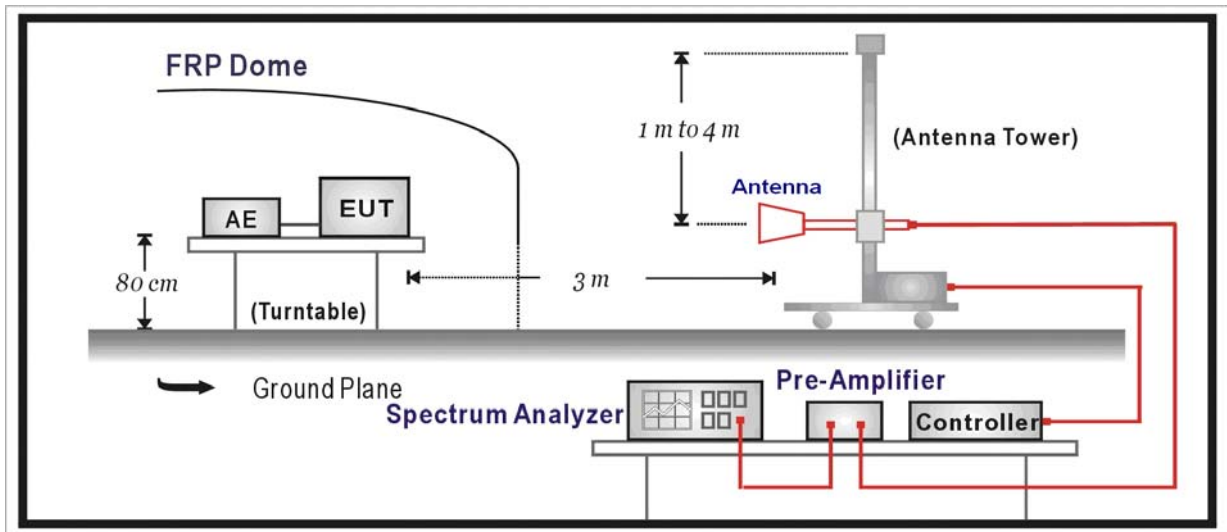
Radiated Emission Band Edge / AC-3

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**

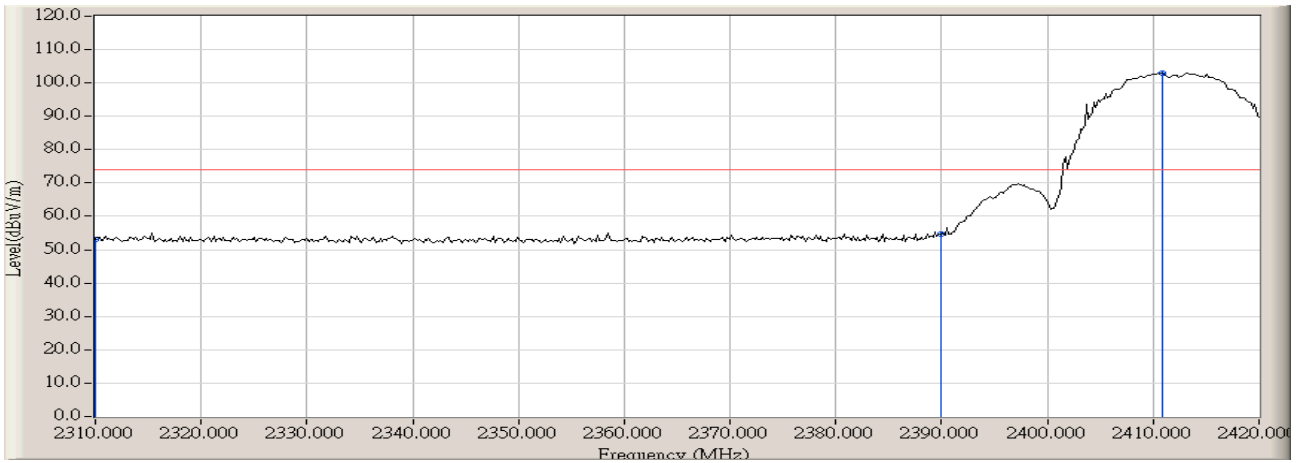
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum 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  $\pm 3.9$  dB

6.6. Test Result

Engineer : Robin	
Site : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 13:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

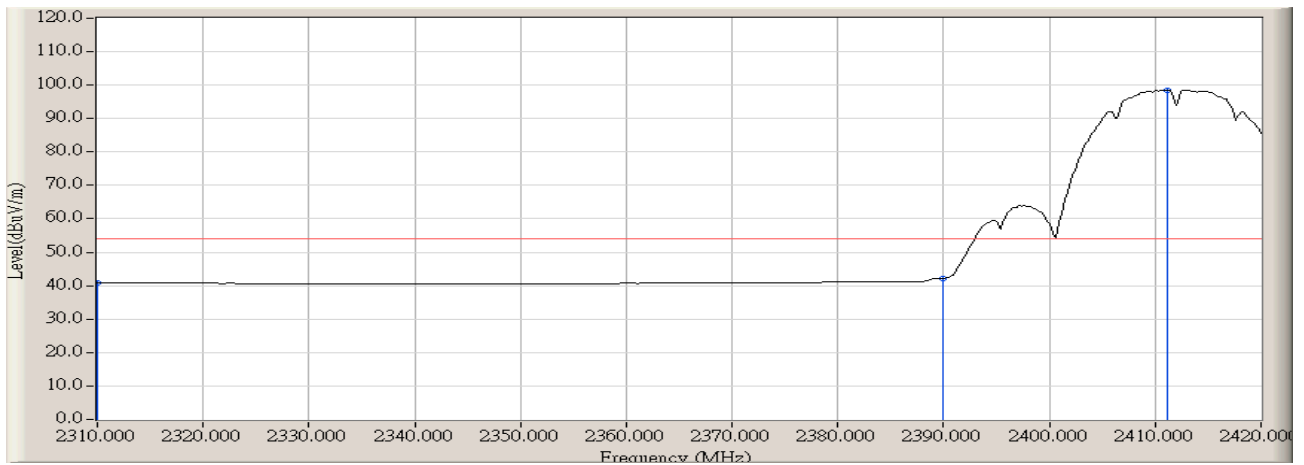


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	56.408	53.147	-20.823	73.970	PEAK
2		2390.000	-3.202	57.738	54.536	-19.434	73.970	PEAK
3	*	2410.833	-3.210	106.116	102.906	N/A	N/A	PEAK

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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:01
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

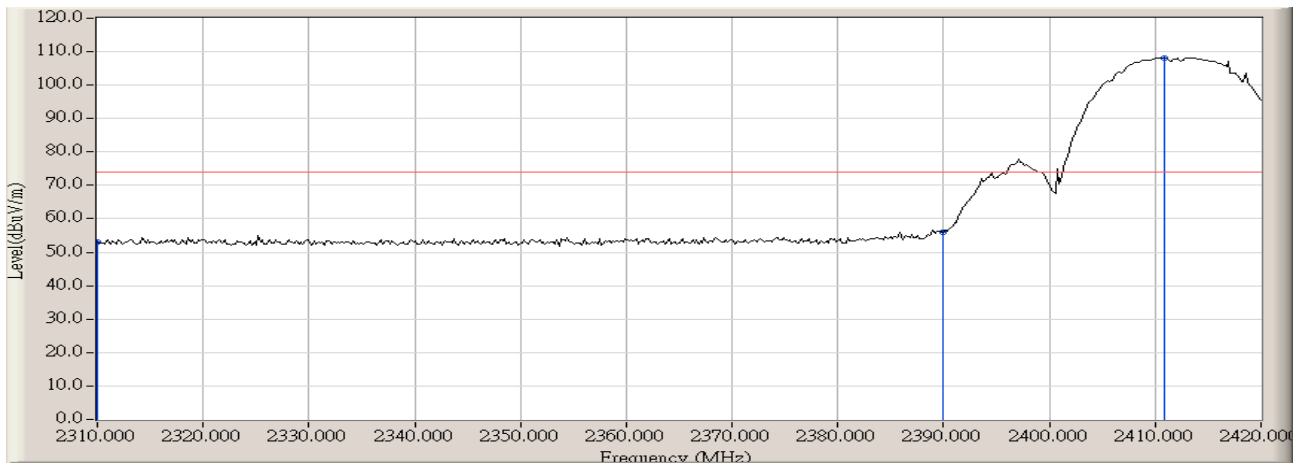


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.110	40.849	-13.121	53.970	AVERAGE
2	2390.000	-3.202	45.435	42.233	-11.737	53.970	AVERAGE
3	* 2411.200	-3.211	101.814	98.604	N/A	N/A	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

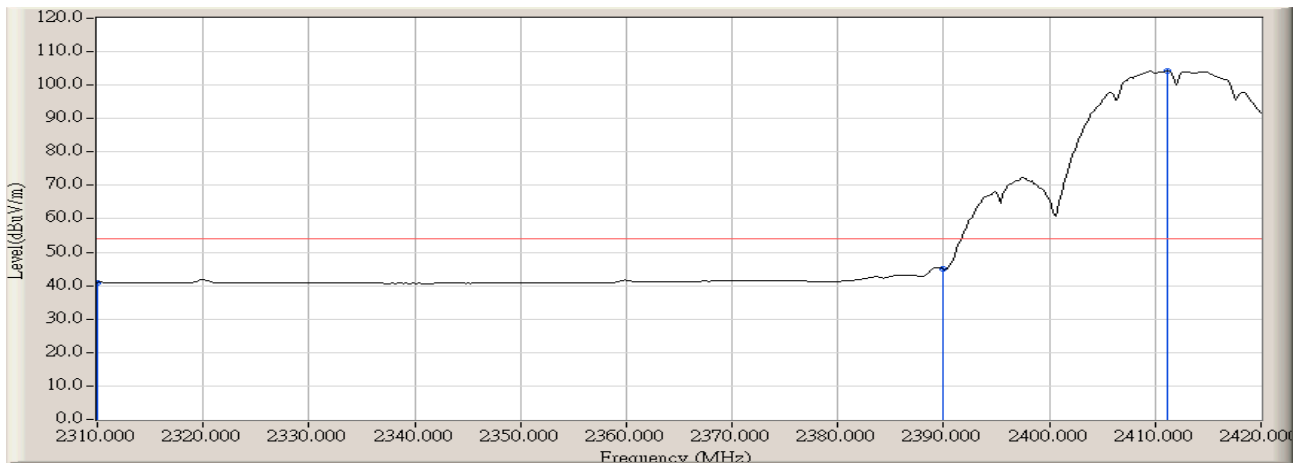


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	56.407	53.146	-20.824	73.970	PEAK
2	2390.000	-3.202	59.272	56.070	-17.900	73.970	PEAK
3	* 2410.833	-3.210	111.332	108.122	N/A	N/A	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

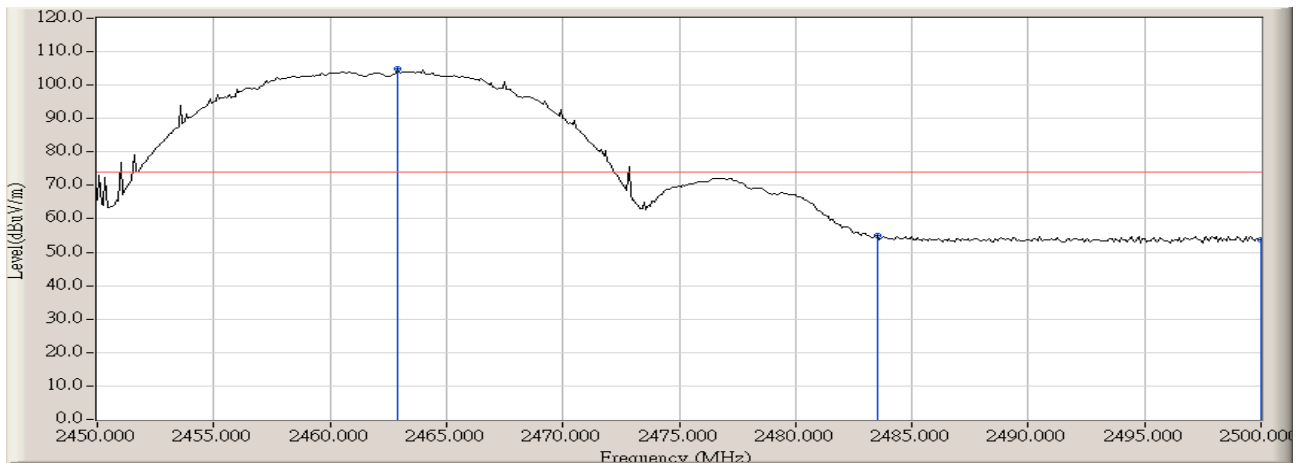


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	44.273	41.012	-12.958	53.970	AVERAGE
2		2390.000	-3.202	48.197	44.995	-8.975	53.970	AVERAGE
3	*	2411.200	-3.211	107.546	104.336	N/A	N/A	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

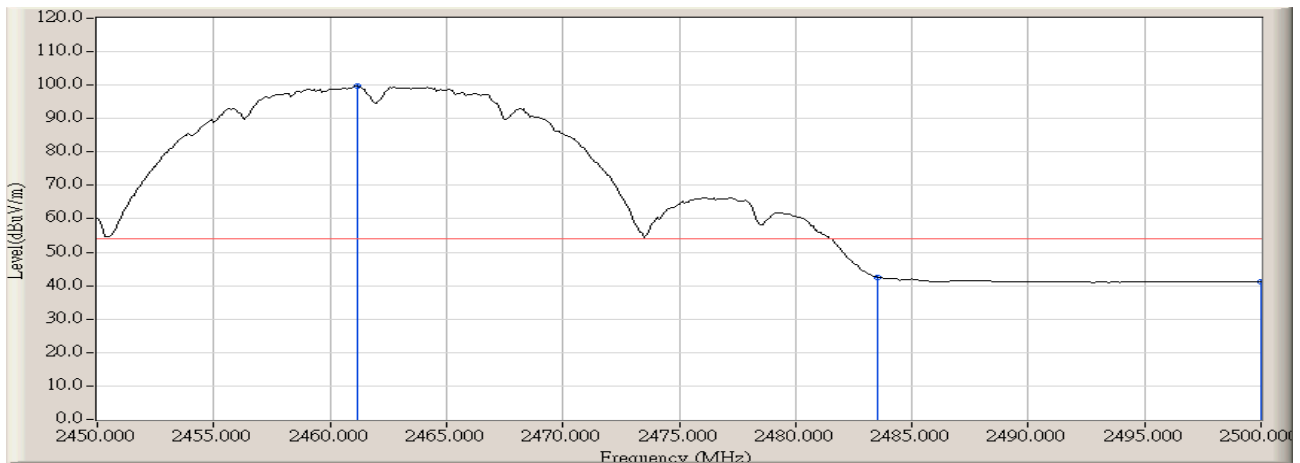


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.917	-3.256	108.051	104.795	N/A	N/A	PEAK
2		2483.500	-3.177	58.069	54.892	-19.078	73.970	PEAK
3		2500.000	-3.135	56.891	53.756	-20.214	73.970	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



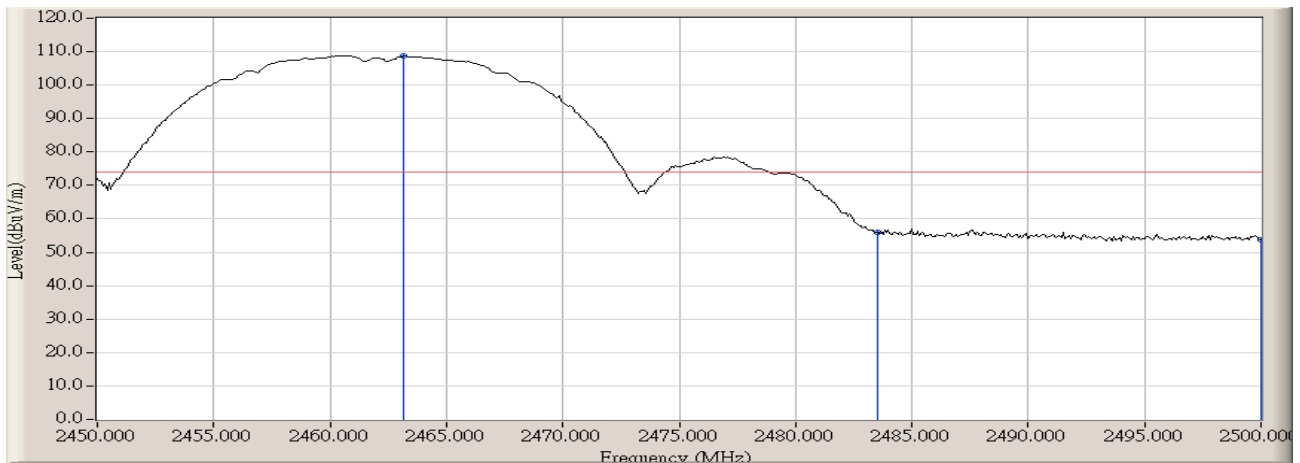
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.167	-3.261	103.017	99.755	N/A	N/A	AVERAGE
2		2483.500	-3.177	45.714	42.537	-11.433	53.970	AVERAGE
3		2500.000	-3.135	44.263	41.128	-12.842	53.970	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

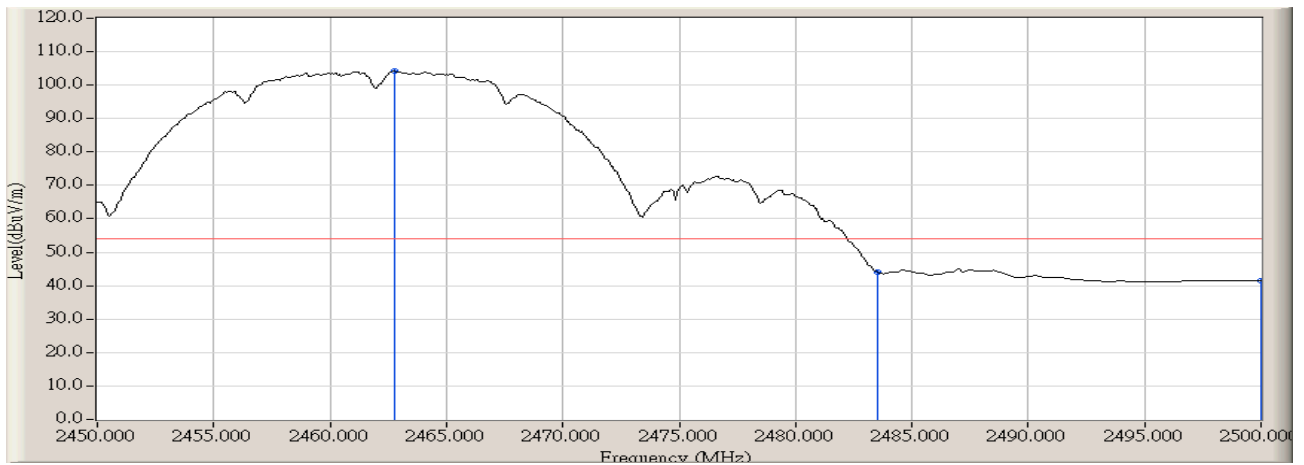


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.167	-3.255	112.039	108.784	N/A	N/A	PEAK
2		2483.500	-3.177	59.236	56.059	-17.911	73.970	PEAK
3		2500.000	-3.135	56.837	53.702	-20.268	73.970	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

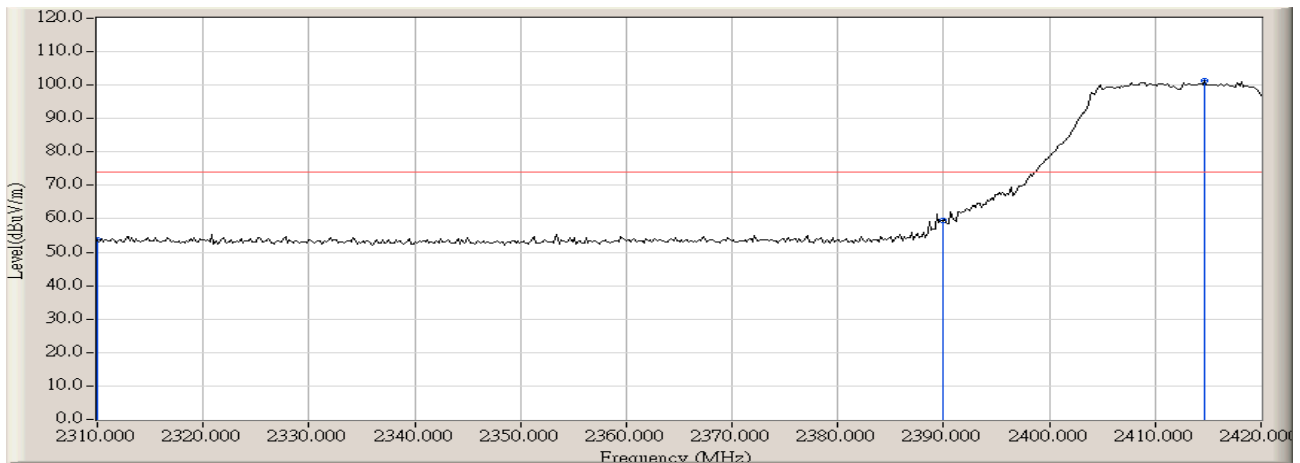


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.750	-3.257	107.396	104.139	N/A	N/A	AVERAGE
2		2483.500	-3.177	47.184	44.007	-9.963	53.970	AVERAGE
3		2500.000	-3.135	44.728	41.593	-12.377	53.970	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:49
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

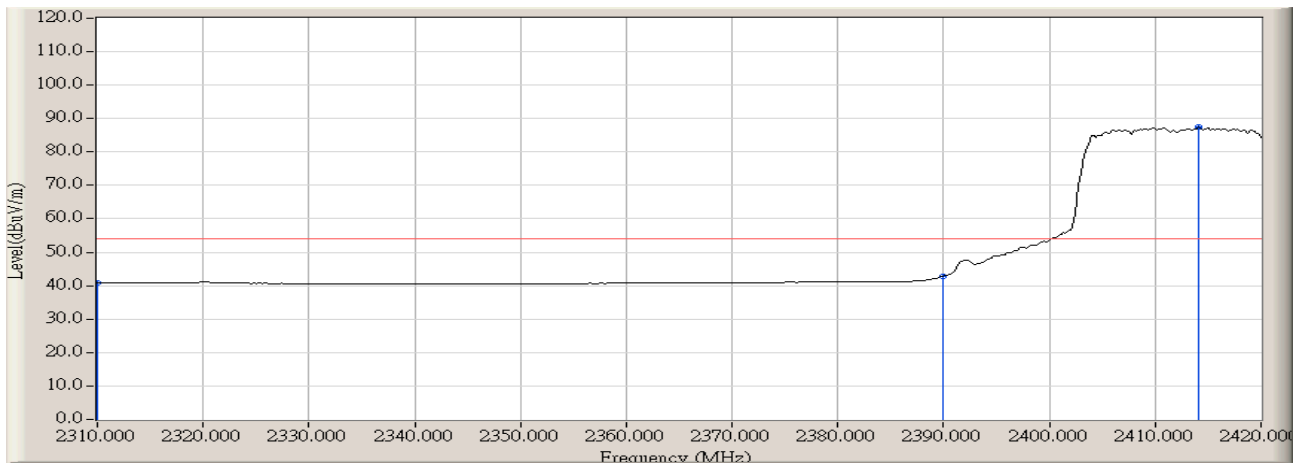


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	57.040	53.779	-20.191	73.970	PEAK
2	2390.000	-3.202	62.627	59.425	-14.545	73.970	PEAK
3	* 2414.683	-3.218	104.615	101.396	N/A	N/A	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

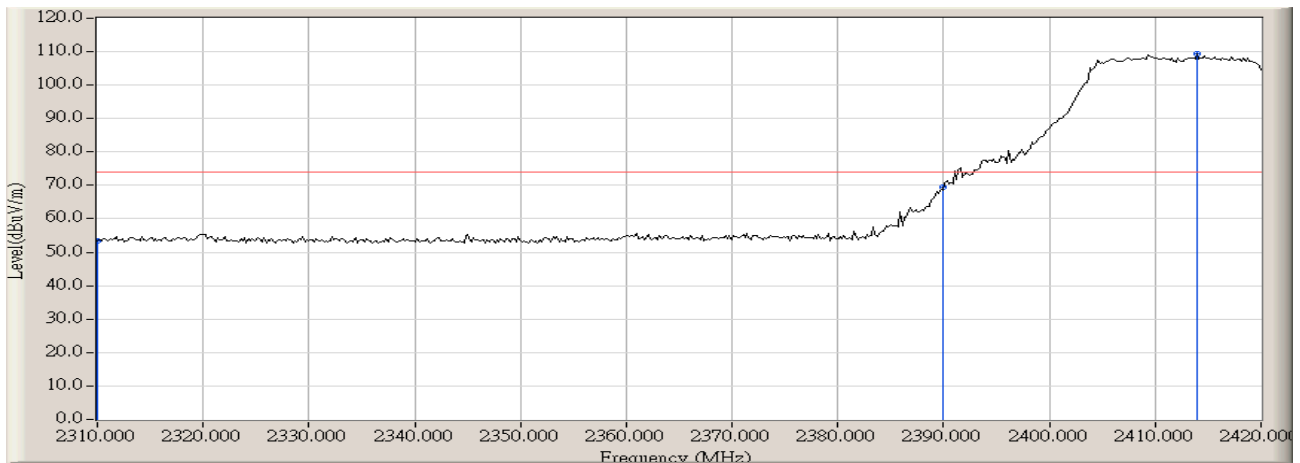


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	44.159	40.898	-13.072	53.970	AVERAGE
2		2390.000	-3.202	46.096	42.894	-11.076	53.970	AVERAGE
3	*	2414.133	-3.218	90.649	87.432	N/A	N/A	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

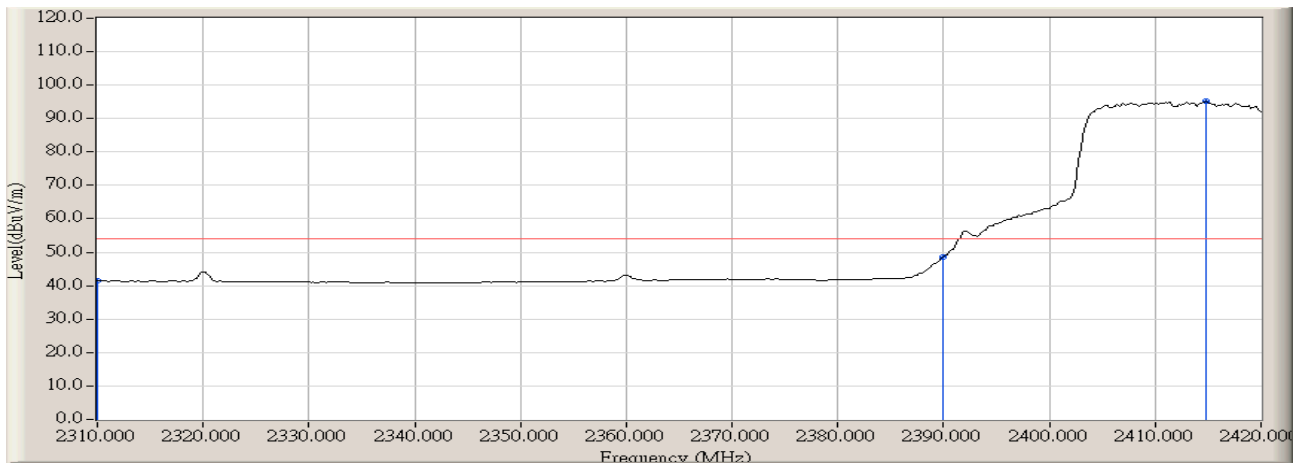


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	56.649	53.388	-20.582	73.970	PEAK
2	2390.000	-3.202	72.658	69.456	-4.514	73.970	PEAK
3	* 2413.950	-3.217	112.632	109.415	N/A	N/A	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

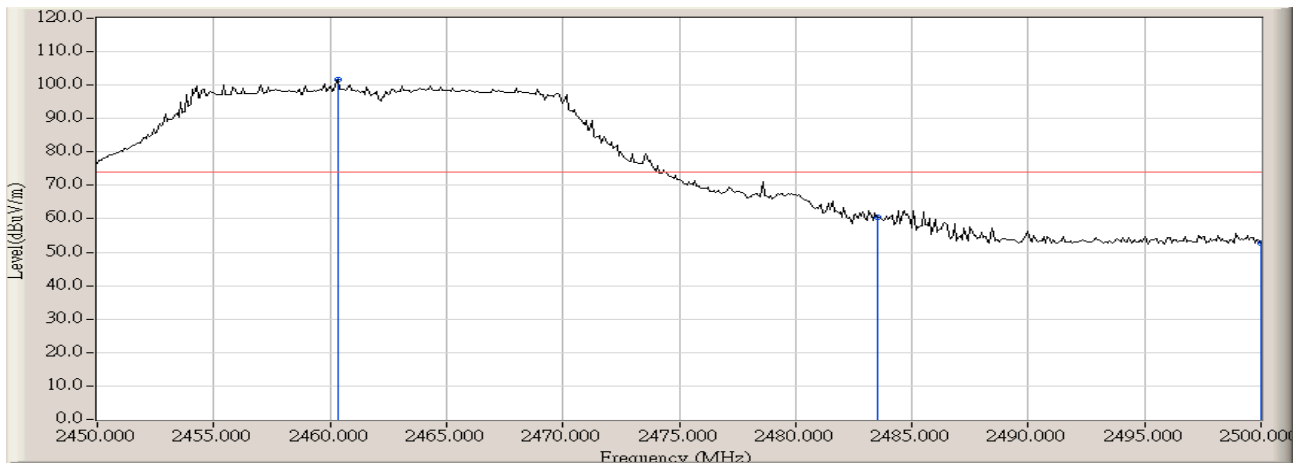


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.708	41.447	-12.523	53.970	AVERAGE
2	2390.000	-3.202	51.811	48.609	-5.361	53.970	AVERAGE
3	* 2414.867	-3.219	98.297	95.078	N/A	N/A	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 14:59
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

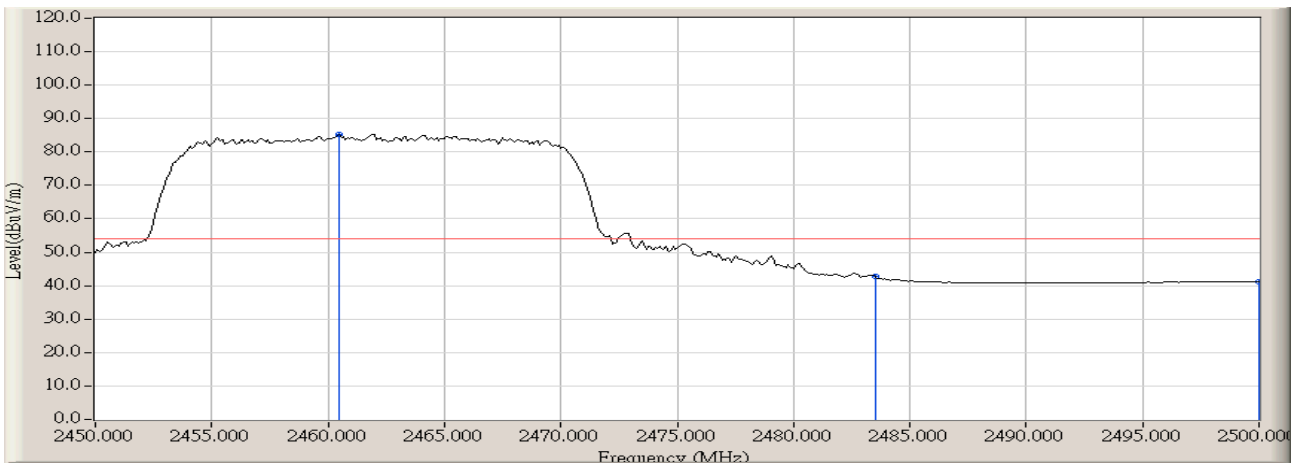


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.333	-3.264	104.824	101.560	N/A	N/A	PEAK
2		2483.500	-3.177	63.789	60.612	-13.358	73.970	PEAK
3		2500.000	-3.135	56.048	52.913	-21.057	73.970	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 15:00
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



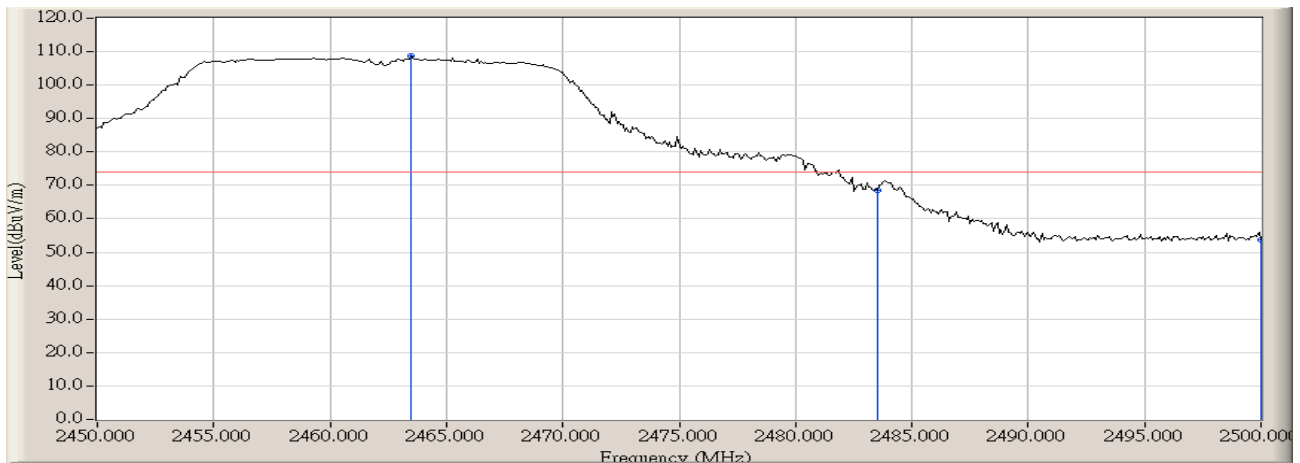
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.500	-3.264	88.469	85.205	N/A	N/A	AVERAGE
2		2483.500	-3.177	45.937	42.760	-11.210	53.970	AVERAGE
3		2500.000	-3.135	44.186	41.051	-12.919	53.970	AVERAGE

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 15:04
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

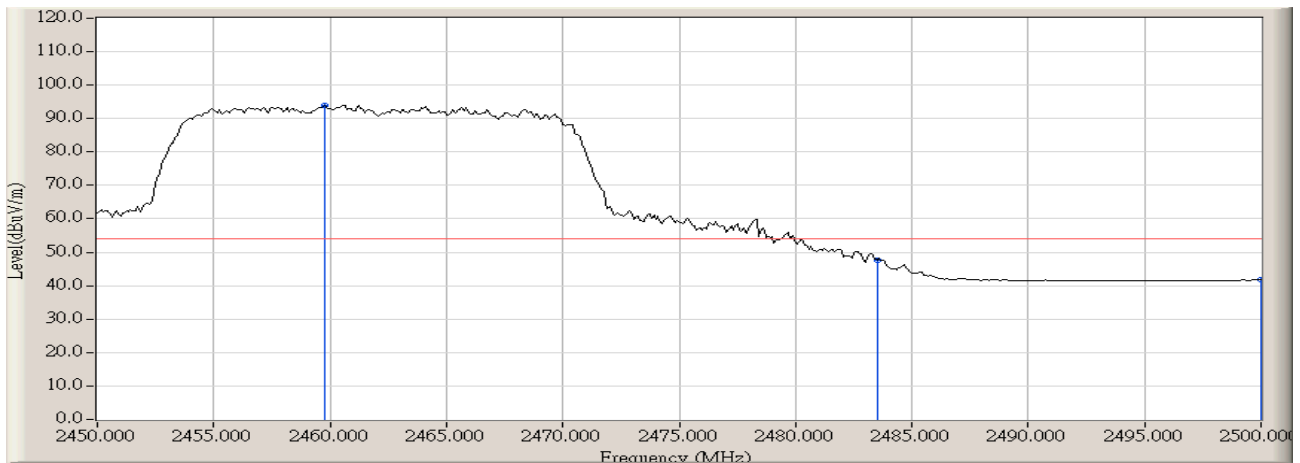


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	-3.254	111.852	108.598	N/A	N/A	PEAK
2		2483.500	-3.177	71.589	68.412	-5.558	73.970	PEAK
3		2500.000	-3.135	56.858	53.723	-20.247	73.970	PEAK

**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 : AC4 (3m Fully-Anechoic Chamber)	Time : 2008/02/28 - 15:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : NETPASSAGE NP25G	Probe : BBHA9120D_499(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	*	2459.750	-3.265	97.361	94.096	N/A	N/A	AVERAGE
2		2483.500	-3.177	50.771	47.594	-6.376	53.970	AVERAGE
3		2500.000	-3.135	44.901	41.766	-12.204	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

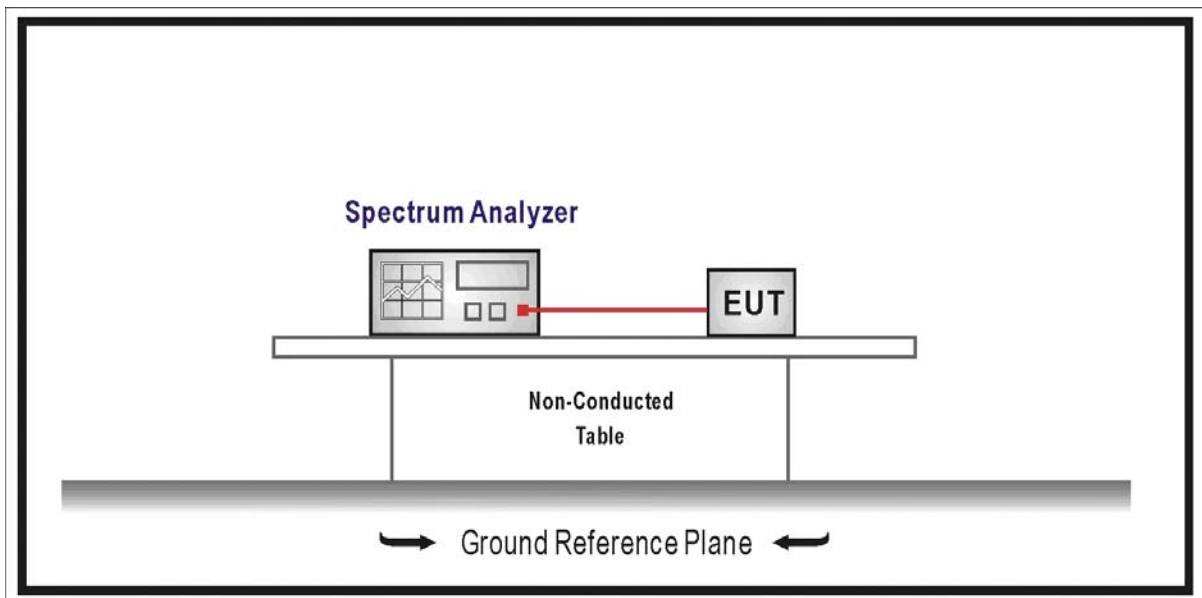
### 7.1. Test Equipment

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.

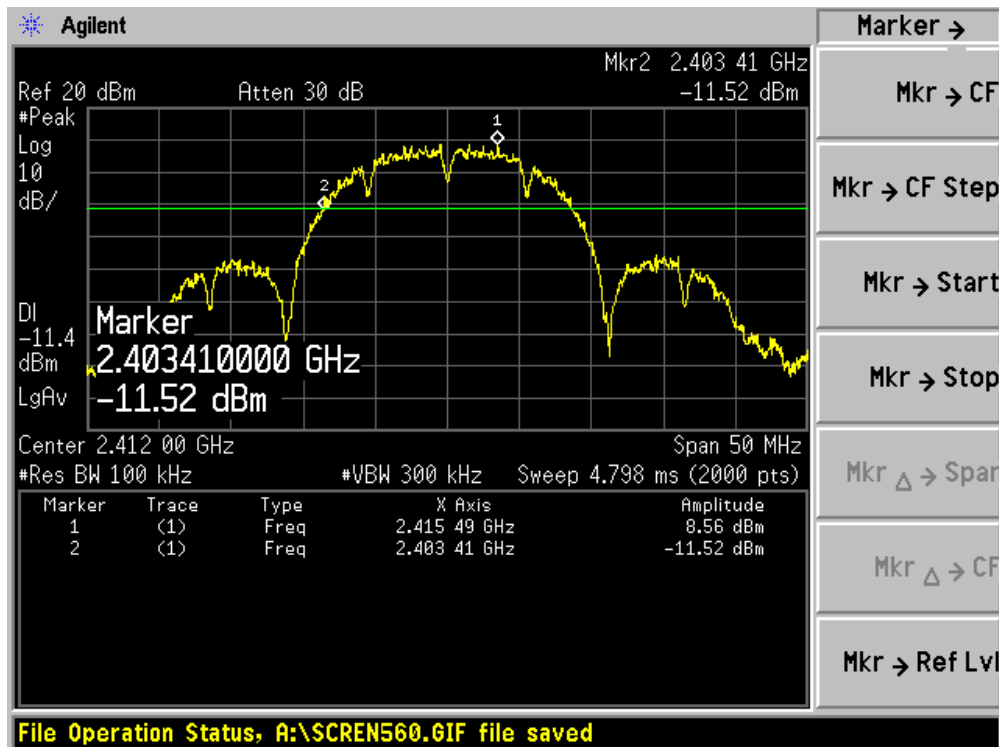
## 7.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1$  kHz

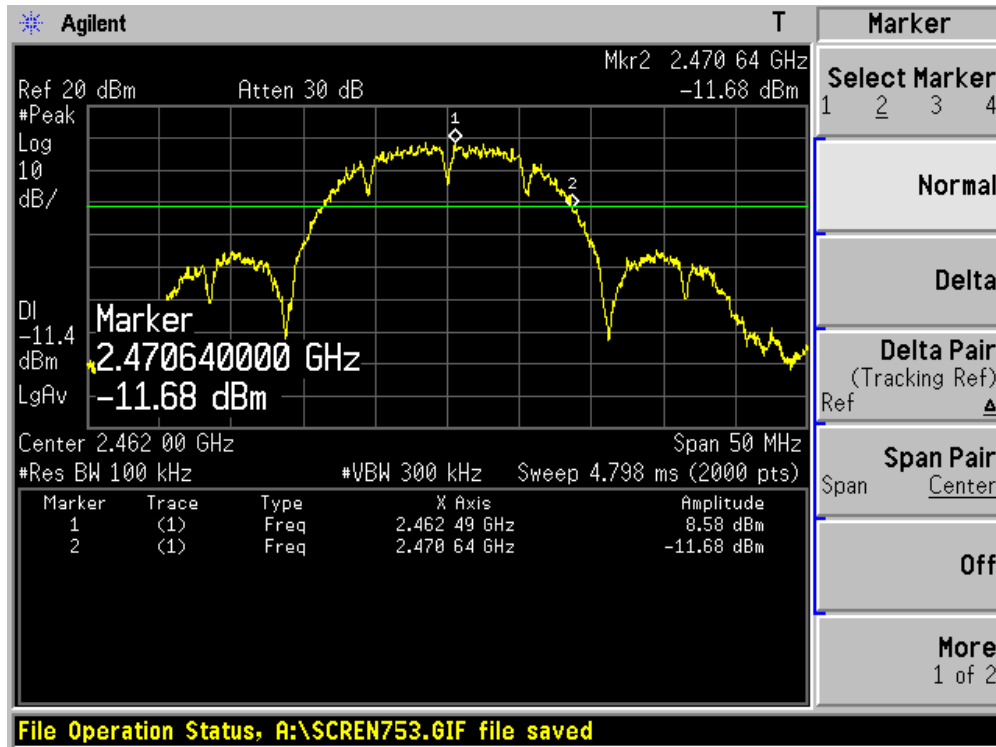
7.6. Test Result

Product	:	NETPASSAGE NP25G
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

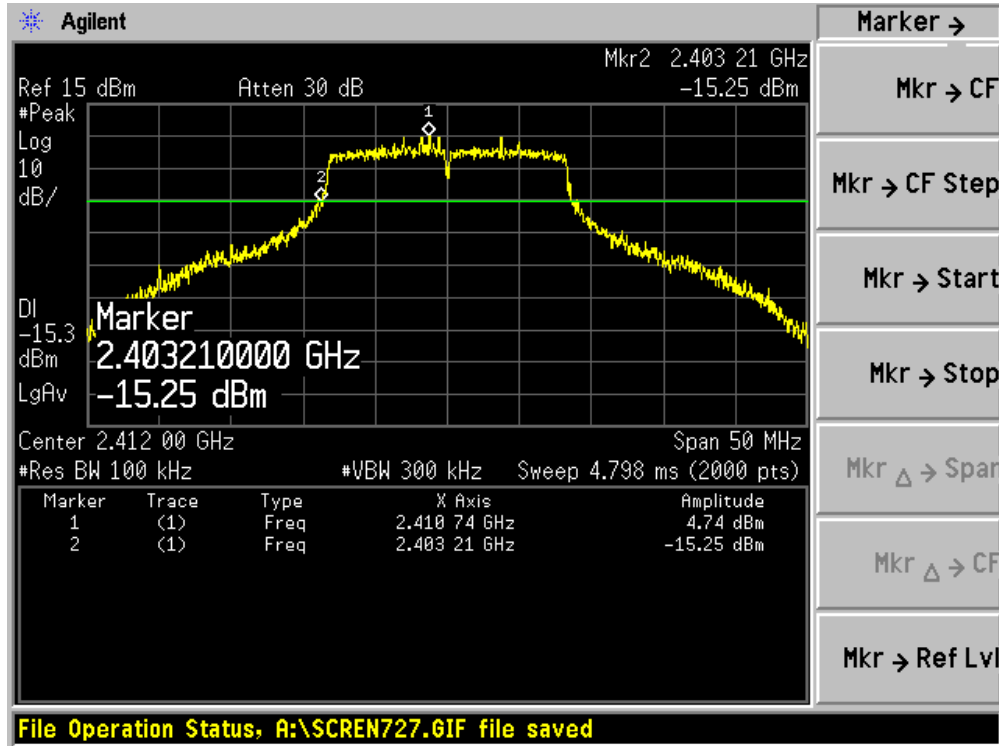


Channel 11 (2462MHz)

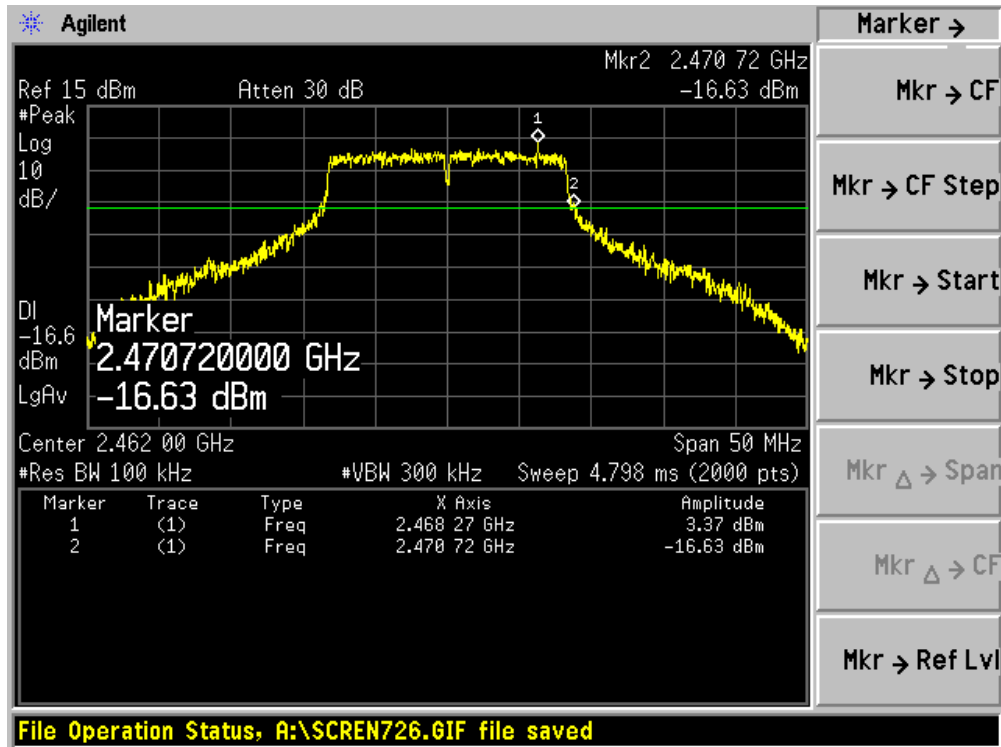


Product	: NETPASSAGE NP25G
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)



Channel 11 (2462MHz)





## 8. Occupied Bandwidth

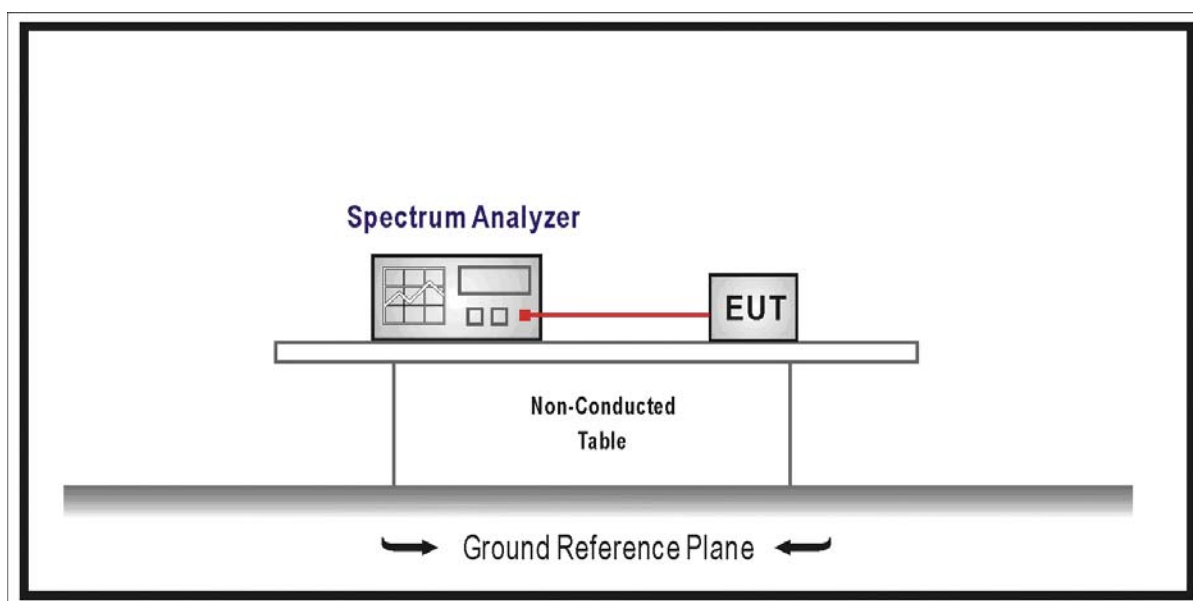
### 8.1. Test Equipment

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**

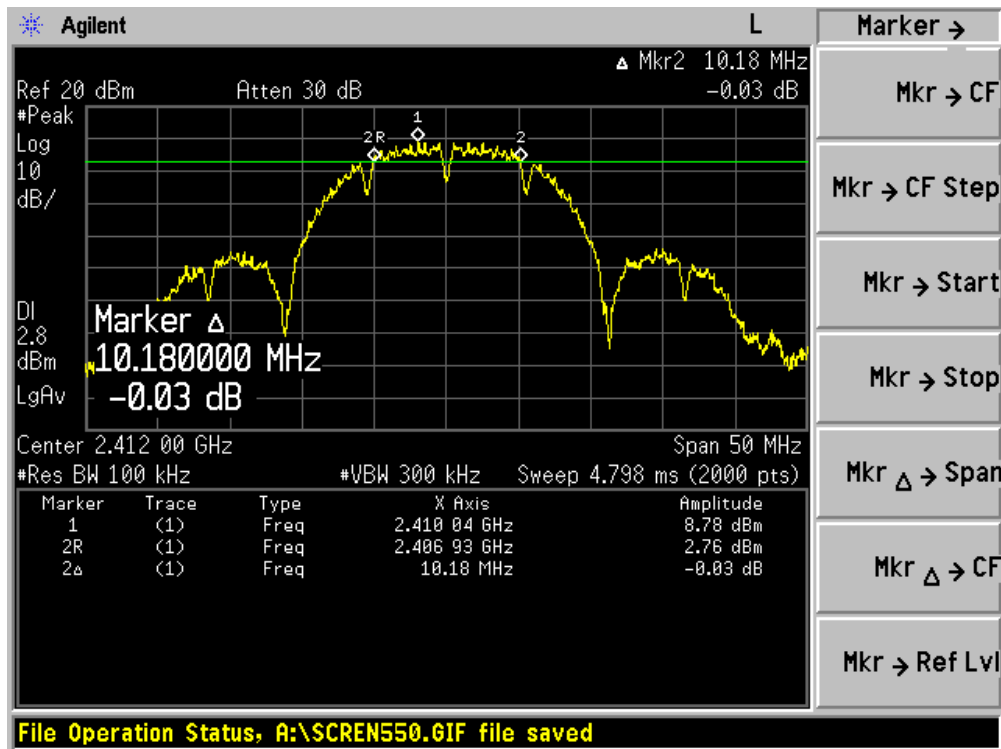
The measurement uncertainty is defined as  $\pm 1$  kHz

8.6. Test Result

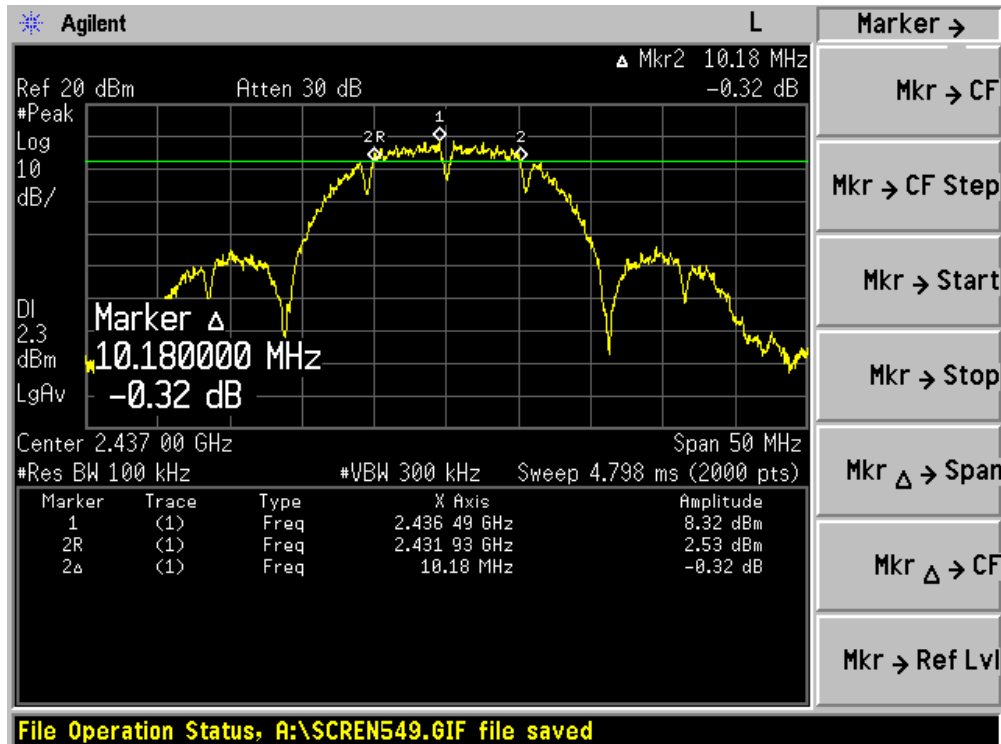
Product	:	NETPASSAGE NP25G
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	10180	500	Pass
06	2437	10180	500	Pass
11	2462	10160	500	Pass

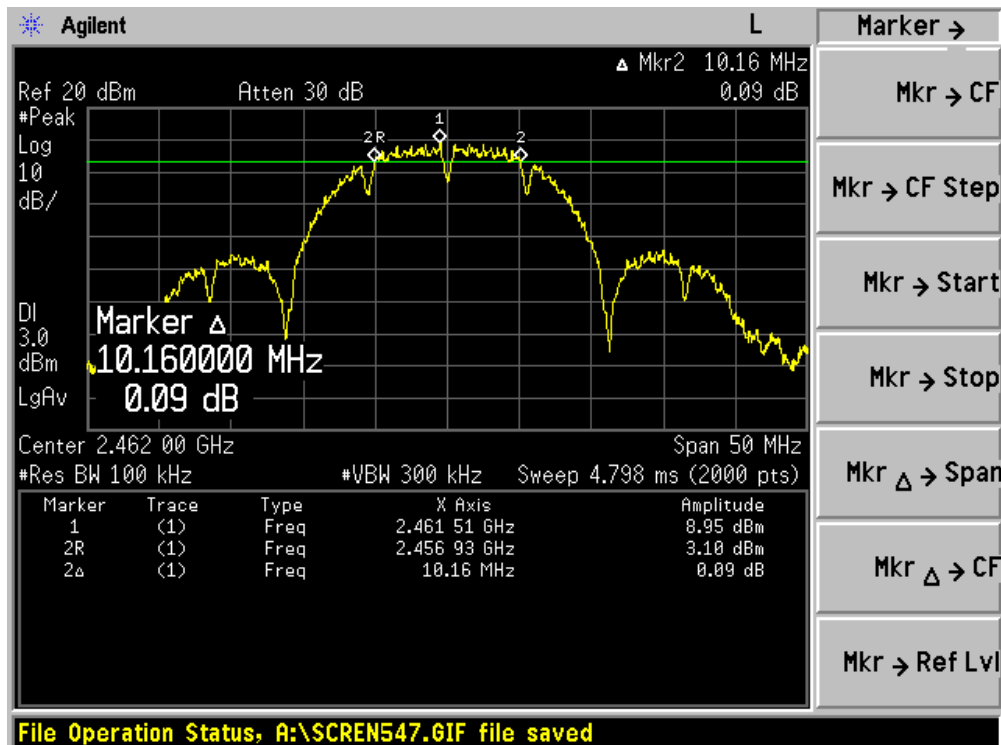
Channel 01 (2412MHz)



Channel 06 (2437MHz)



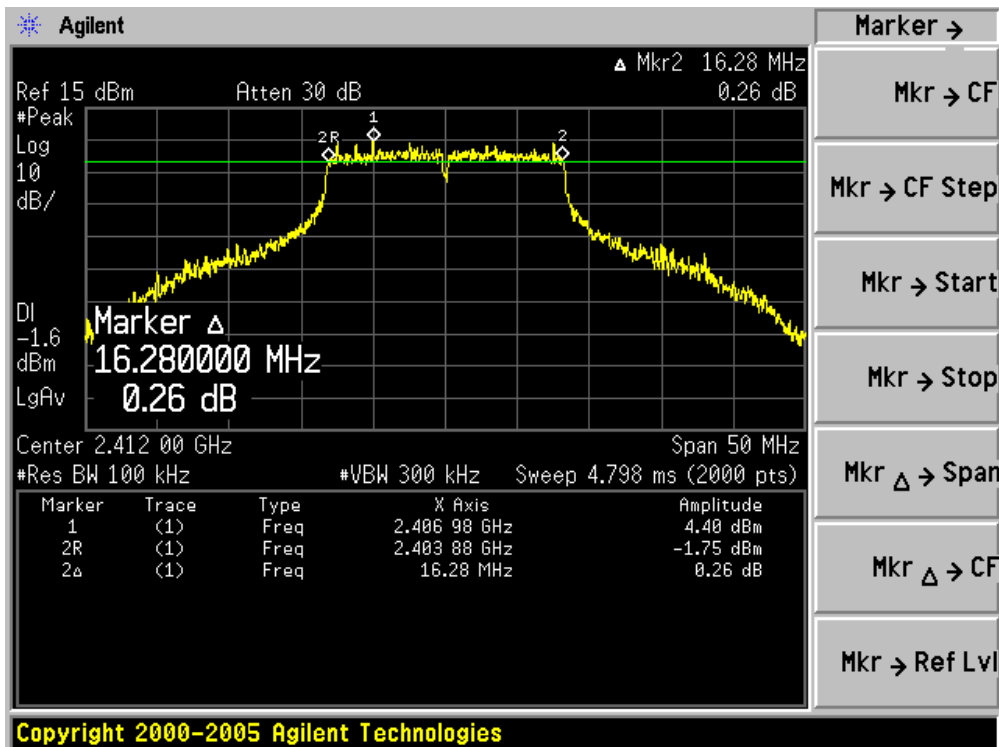
Channel 11 (2462MHz)



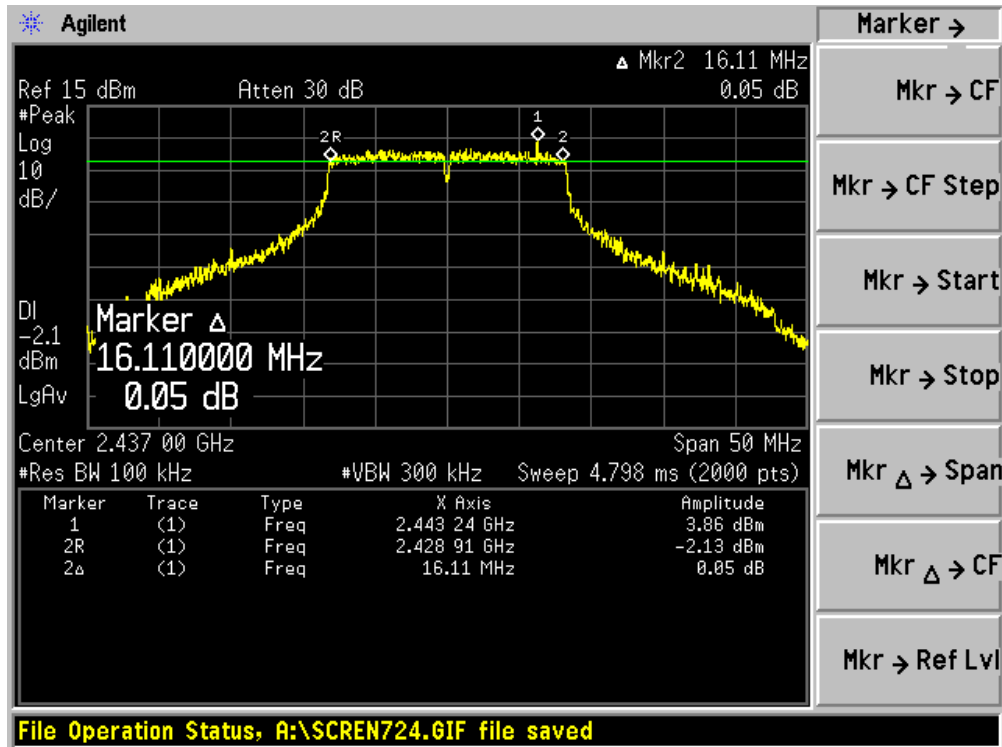
Product	:	NETPASSAGE NP25G
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16280	500	Pass
06	2437	16110	500	Pass
11	2462	16260	500	Pass

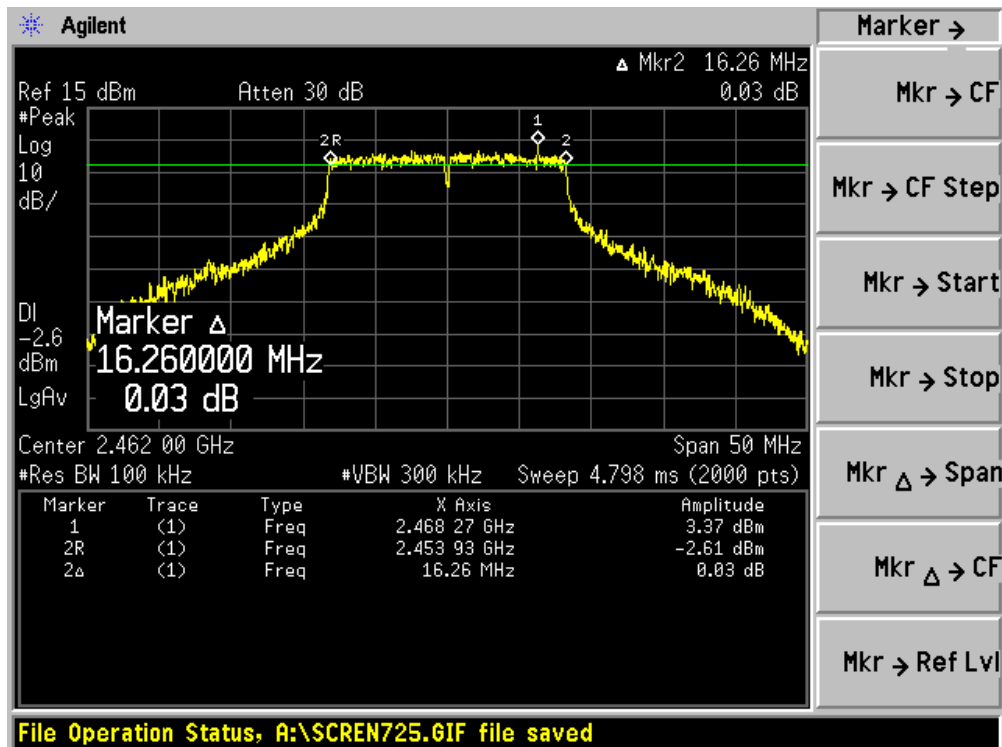
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



## 9. Power Output

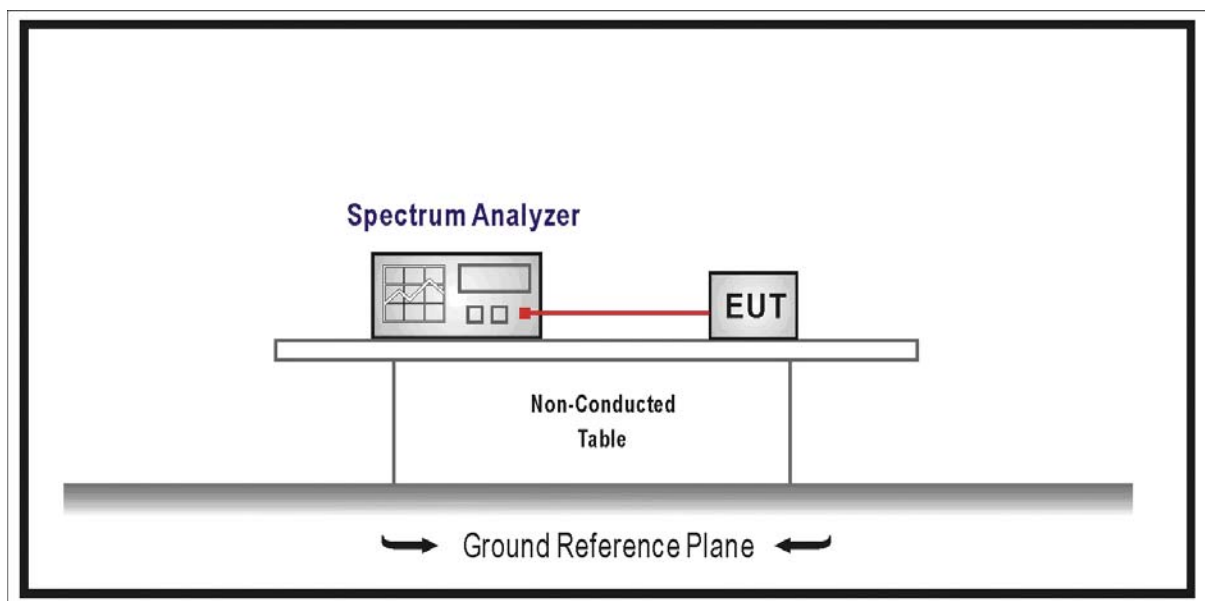
### 9.1. Test Equipment

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  $\pm 1.27$  dB



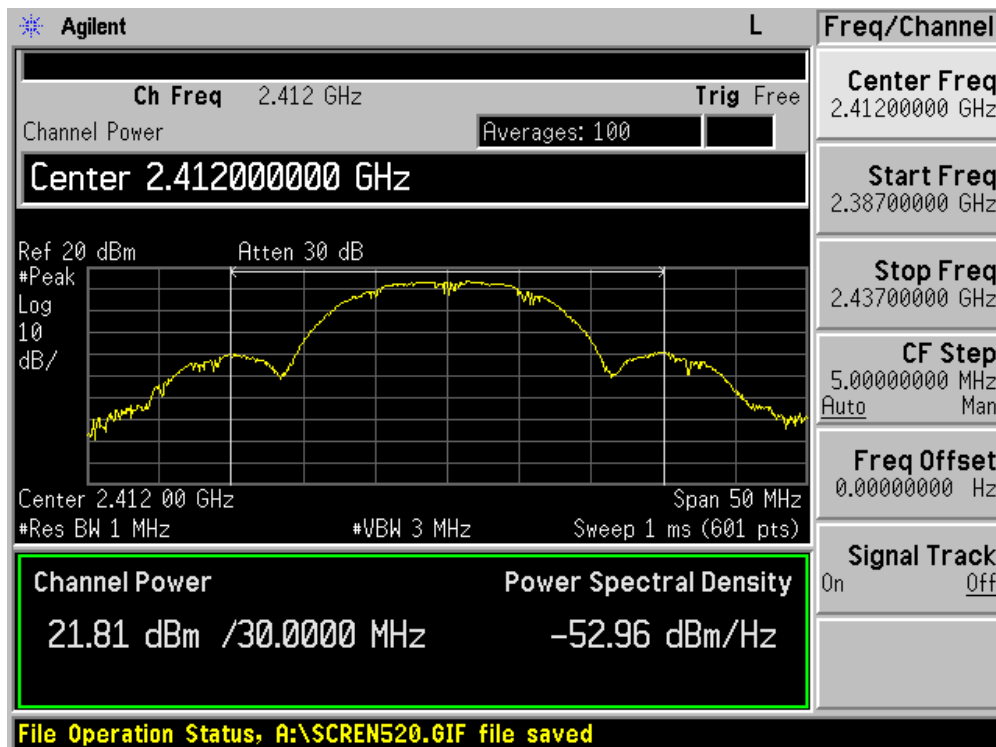
9.6. Test Result

Product	:	NETPASSAGE NP25G
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

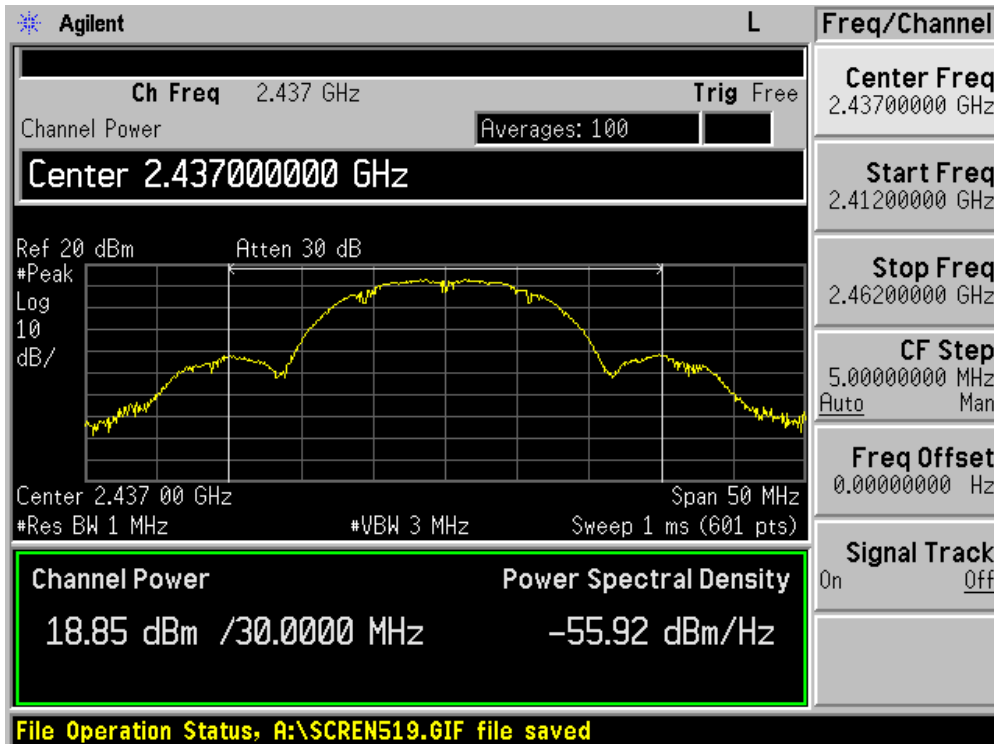
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	21.81	--	--	--	30
06	2437	18.85	18.76	18.70	18.64	30
11	2462	20.57	--	--	--	30

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.

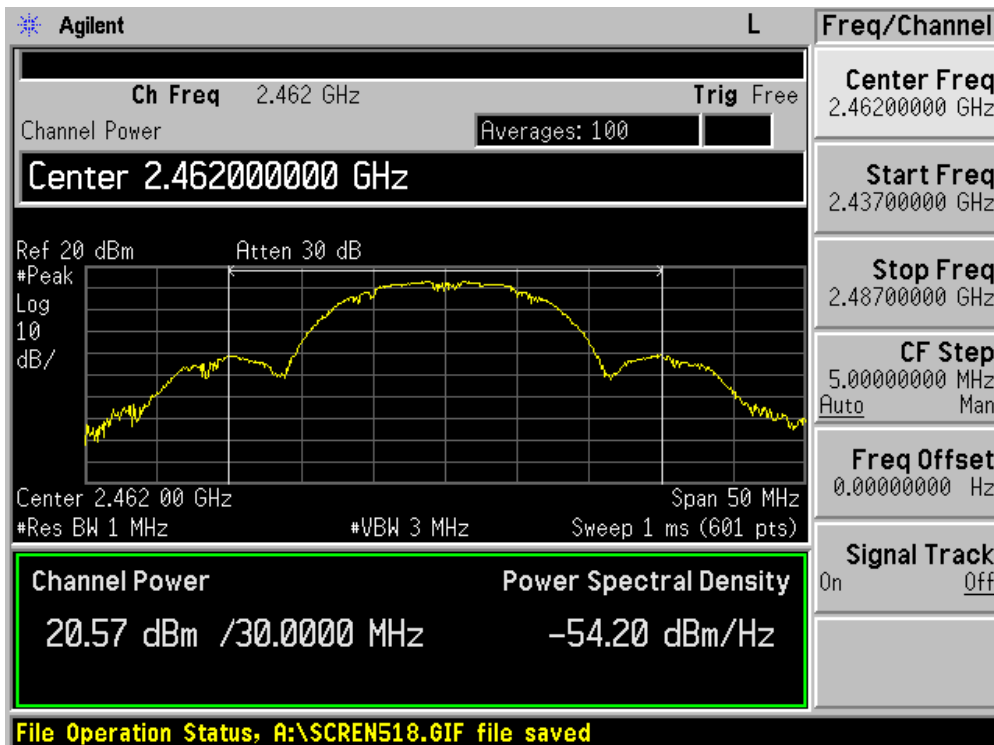
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

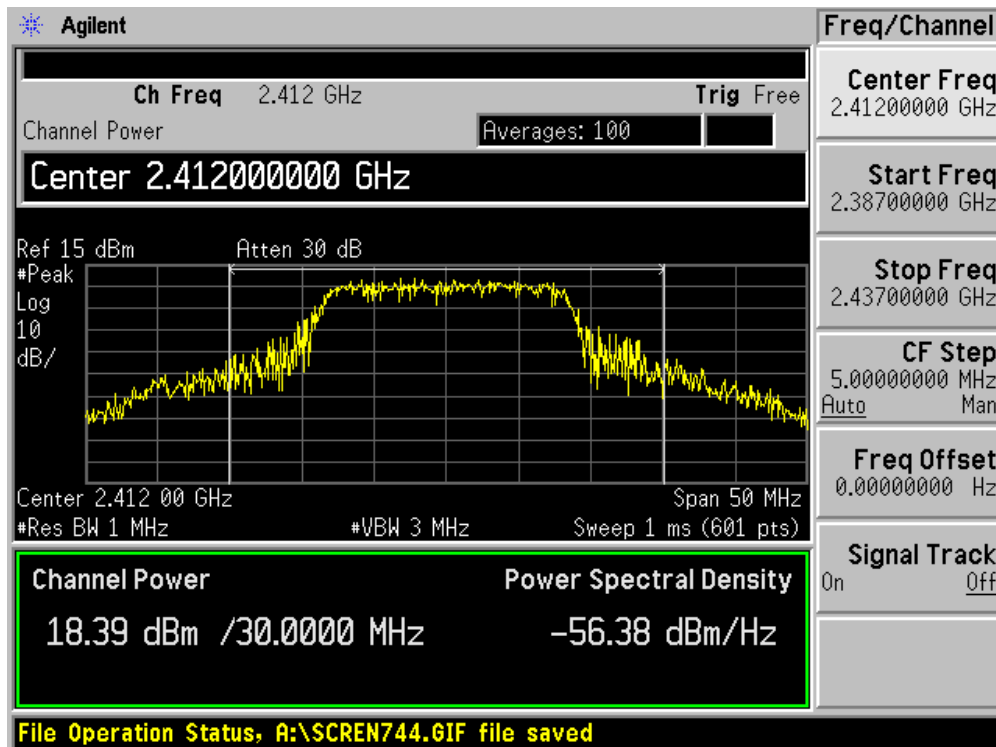


Product	:	NETPASSAGE NP25G
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

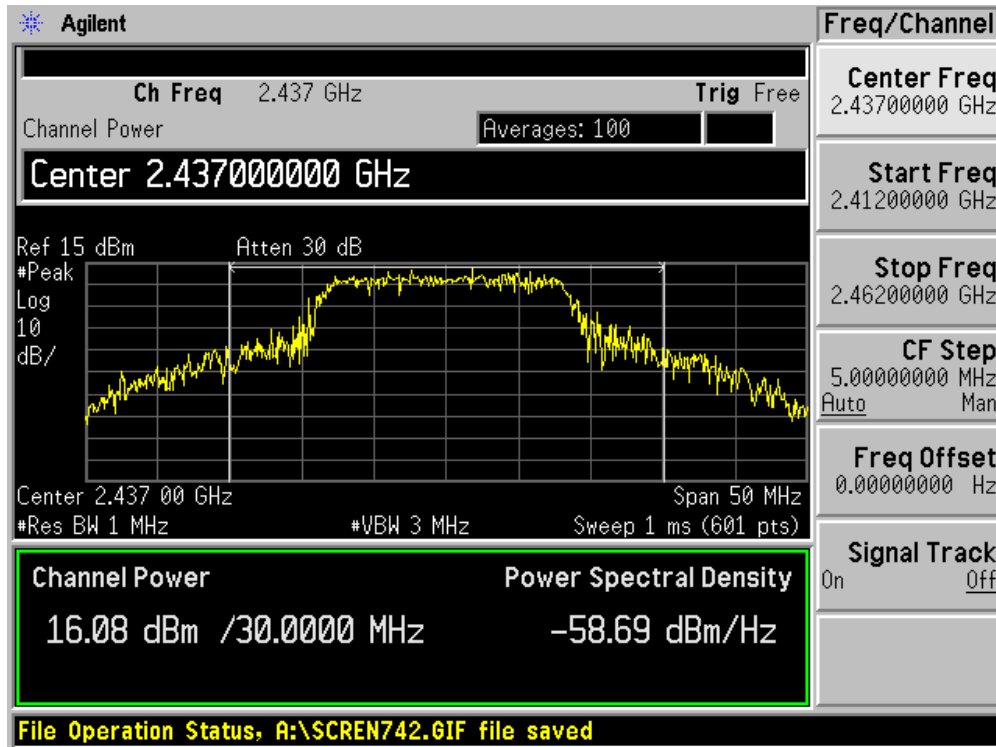
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	18.39	--	--	--	--	--	--	--	30
06	2437	16.08	16.02	15.96	15.87	15.72	15.56	15.48	15.36	30
11	2462	14.11	--	--	--	--	--	--	--	30

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.

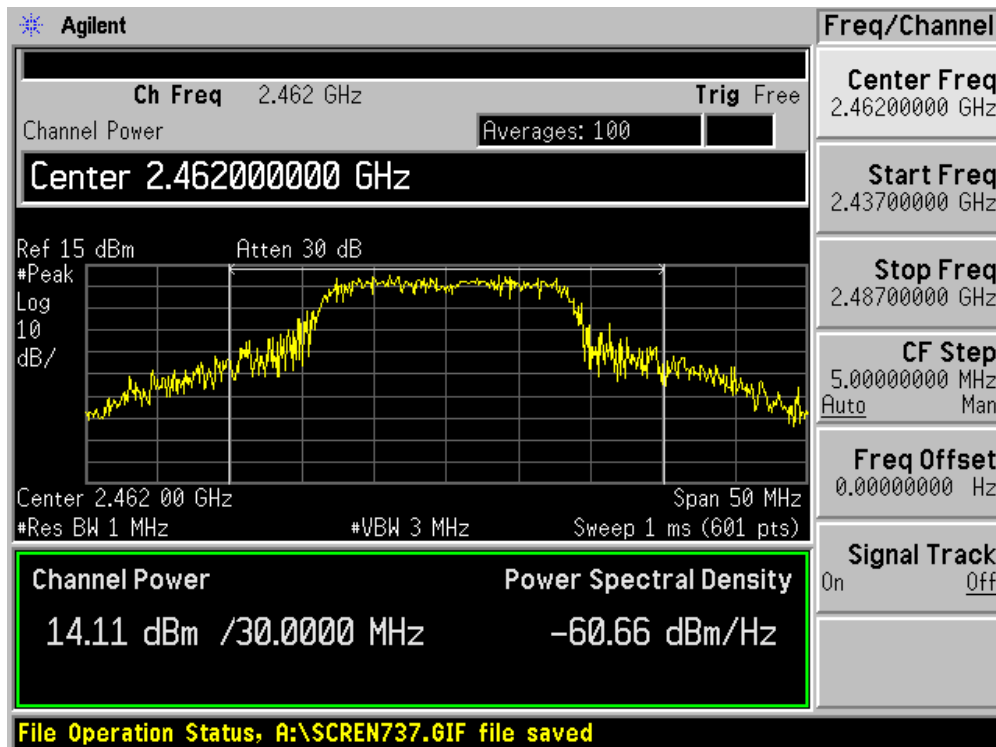
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



## 10. Power Spectral Density

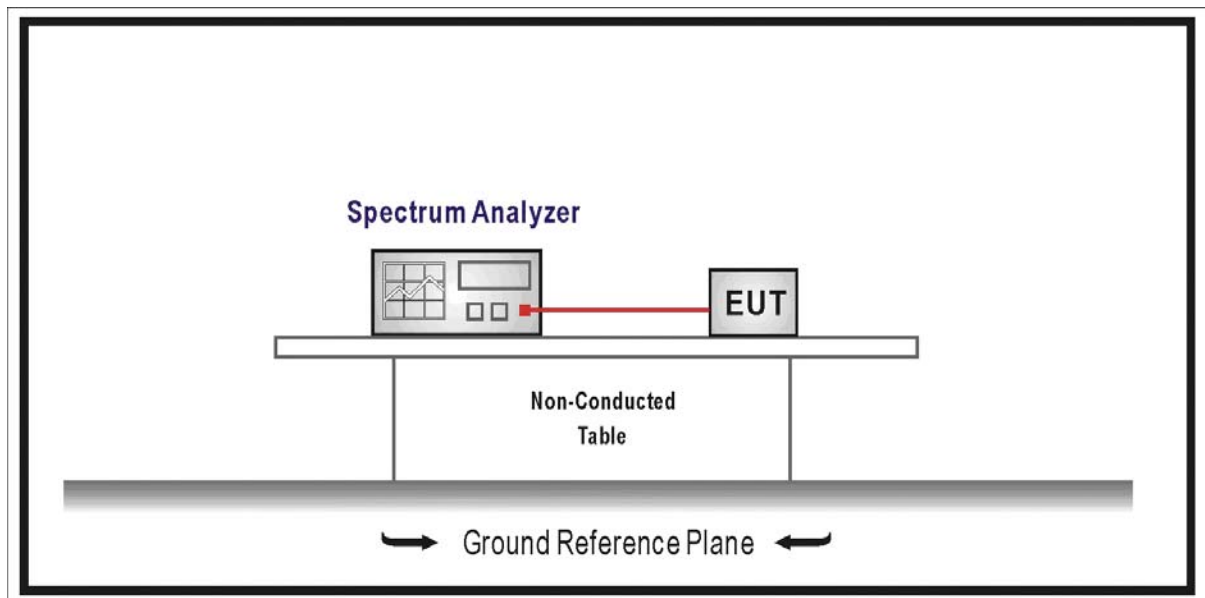
### 10.1. Test Equipment

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**

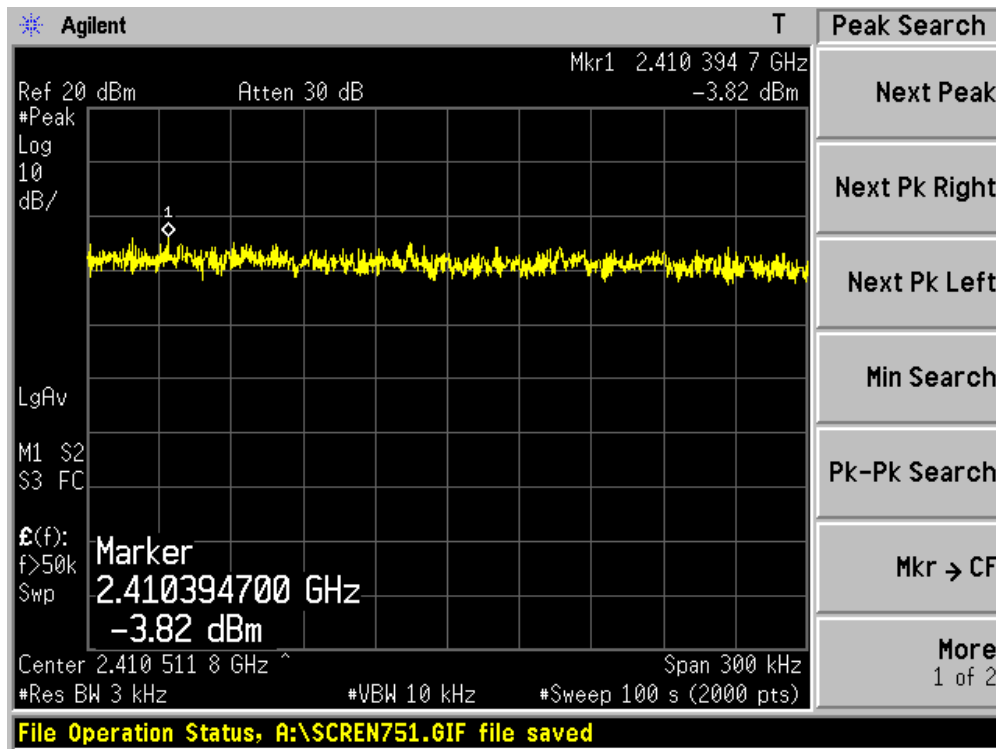
The measurement uncertainty is defined as  $\pm 1.27$  dB

10.6. Test Result

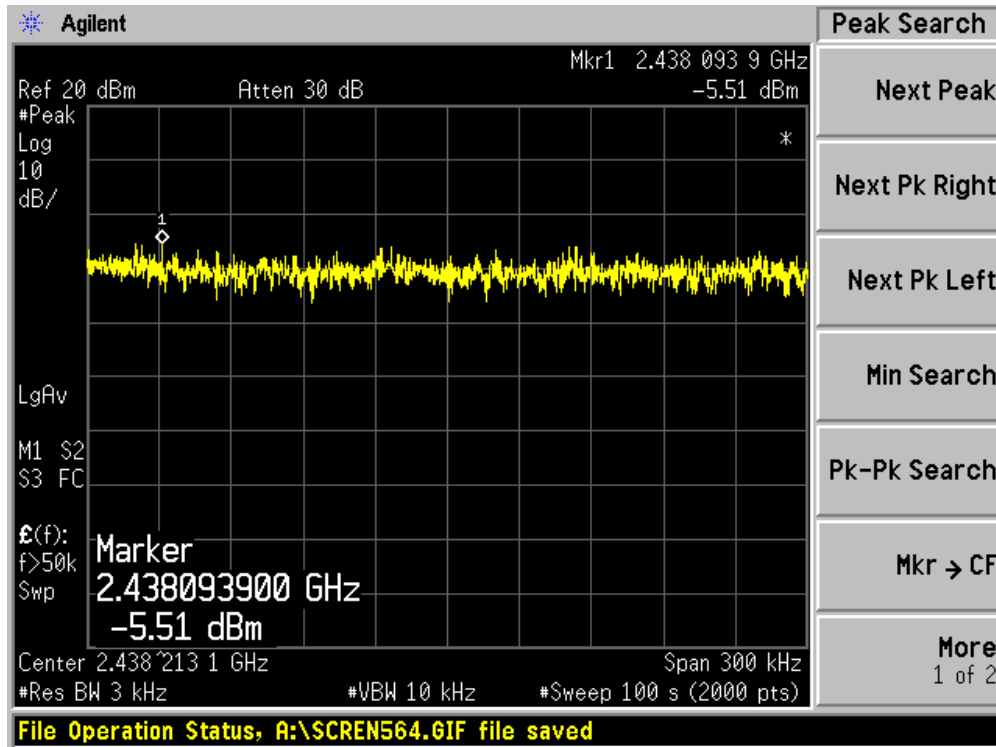
Product	:	NETPASSAGE NP25G
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-3.82	8	Pass
06	2437	-5.51	8	Pass
11	2462	-4.58	8	Pass

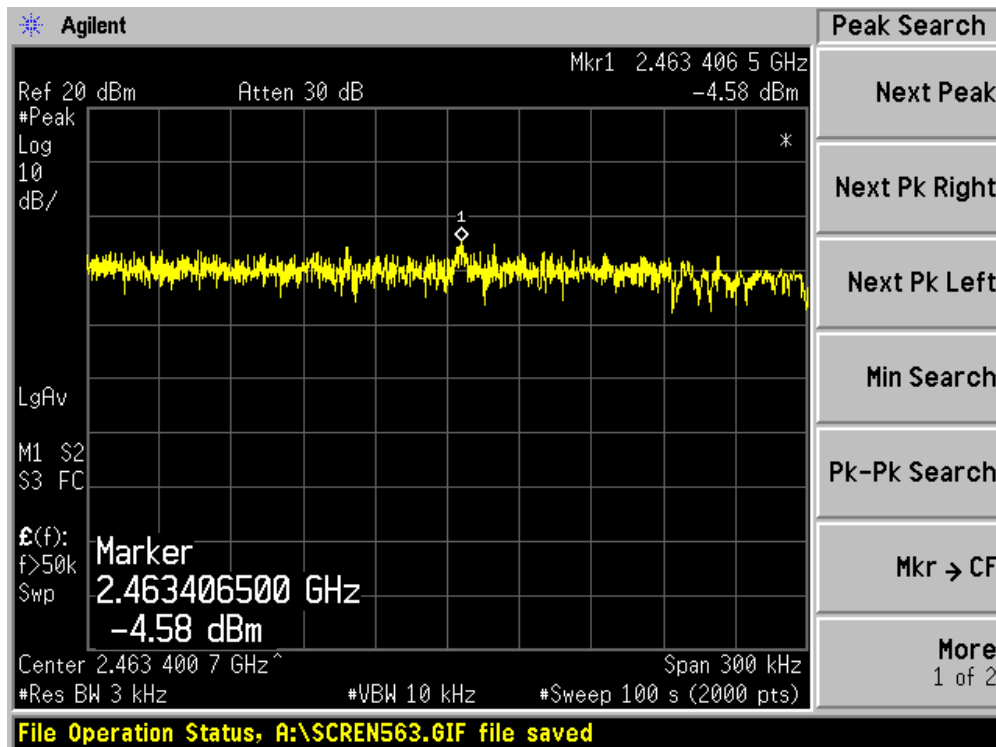
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

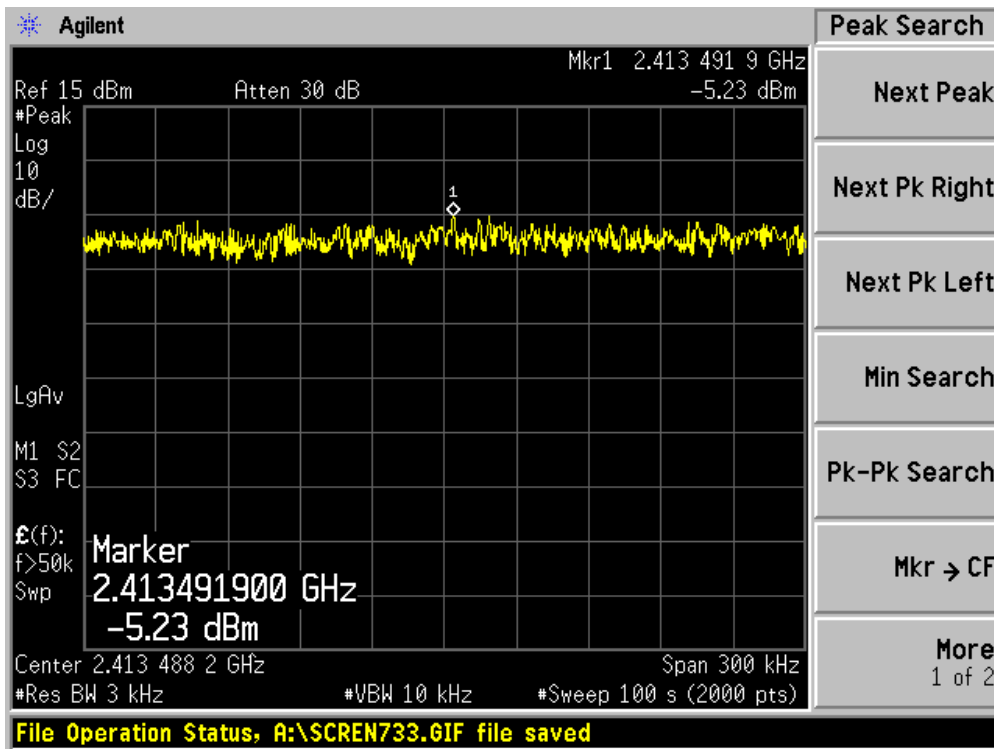




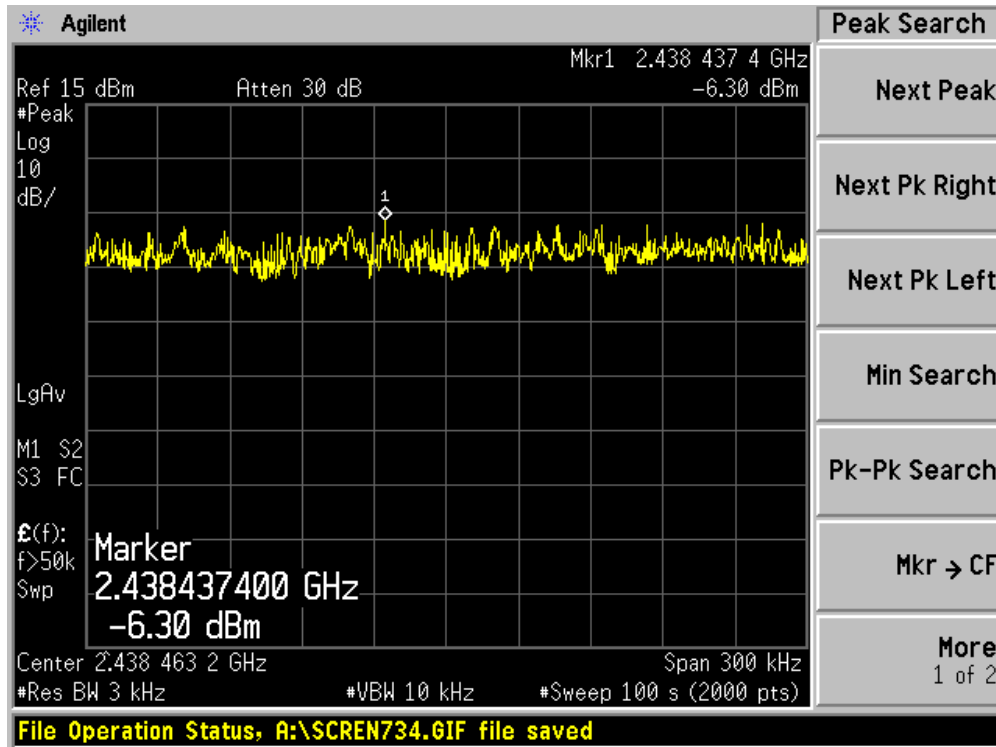
Product	:	NETPASSAGE NP25G
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-5.23	8	Pass
06	2437	-6.30	8	Pass
11	2462	-8.38	8	Pass

### Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

