



Test Report

Product Name : Home Gateway
Model No. : EchoLife HG532, EchoLife HG532a
FCC ID : QISHG532X

Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129 P.R.C.

Date of Receipt : 2009/06/12
Issued Date : 2009/06/27
Report No. : 096S068R-RF-US-P05V01
Report Version : 1.3

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2009/06/27

Report No. : 096S068R-RF-US-P05V01



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Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Huawei Base, Bantian,
Longgang District, Shenzhen 518129 P.R.C.
Manufacturer : Huawei Technologies Co., Ltd.
Model No. : EchoLife HG532, EchoLife HG532a
FCC ID : QISHG532X
Rated Voltage : AC 100~240V / 50~60Hz
EUT Voltage : DC 12 V
Trade Name : HUAWEI
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
ANSI C63.4: 2003
Test Result : Complied
Performed Location : SuZhou EMC 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
FCC Registration Number: 800392

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Laboratory Information

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

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

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

1.1. EUT Description

Product Name	Home Gateway
Trade Name	HUAWEI
Model No.	EchoLife HG532, EchoLife HG532a
Working Voltage	DC 12 V
Frequency Range	802.11b/g/n(20MHz): 2412 ~ 2462 MHz 802.11n(40MHz): 2422 ~ 2452 MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300Mbps
Channel Control	Auto
Antenna Delivery	2*TX + 2*RX
Antenna Type	Dipole Antenna
Antenna Gain	2dBi

Note: This product includes two models EchoLife HG532 and EchoLife HG532a. The difference between the two models as show below:

Model No.	Power	11n (2*2)	11n (1*1)	USB Port
HG532	12V 1A	√		√
HG532a	12V 0.7A	√		

Note: EchoLife HG532 was used for testing with number 2 adapter listed as follows.

Component	
AC Adapter #1	<p>I.T.E POWER SUPPLY Manufacturer: Global Yeou Diann Electric Industrial Co., Ltd. Model: AMS9-1200700FU2 Input: 100-240V~, 50/60Hz, 0.5A Output: 12VDC, 0.7A</p>
AC Adapter #2	<p>I.T.E POWER SUPPLY Manufacturer: Global Yeou Diann Electric Industrial Co., Ltd. Model: AMS9-1201000FU2 Input: 100-240V~, 50/60Hz, 0.5A Output: 12VDC, 1.0A</p>
AC Adapter #3	<p>SWITCHING MODE POWER ADAPTER Manufacturer: SHENZHEN FRECOM ELECTRONICS CO., LTD. Model: FM120007-US Input: 100-240V~, 50/60Hz, 0.6A Output: 12VDC, 0.7A</p>
AC Adapter #4	<p>SWITCHING MODE POWER ADAPTER Manufacturer: SHENZHEN FRECOM ELECTRONICS CO., LTD. Model: FM120010-US Input: 100-240V~, 50/60Hz, 0.6A Output: 12VDC, 1.0A</p>
AC Adapter #5	<p>SWITCHING POWER ADAPTER Manufacturer: Dongguan Shilong Fuhua Electronic Co., Ltd. Model: UE09L-120070SPAU Input: 100-240V~, 50/60Hz, 0.3A Output: 12VDC, 0.7A</p>
AC Adapter #6	<p>SWITCHING POWER ADAPTER Manufacturer: Dongguan Shilong Fuhua Electronic Co., Ltd. Model: UE12L-120100SPAU Input: 100-240V~, 50/60Hz, 0.3A Output: 12VDC, 1.0A</p>

802.11b/g/n(20MHz) Working Frequency of Each Channel:

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

802.11n(40MHz) Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

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 at 802.11b
Mode 2: Transmit at 802.11g
Mode 3: Transmit at 802.11n (20MHz)
Mode 4: Transmit at 802.11n (40MHz)

Note:

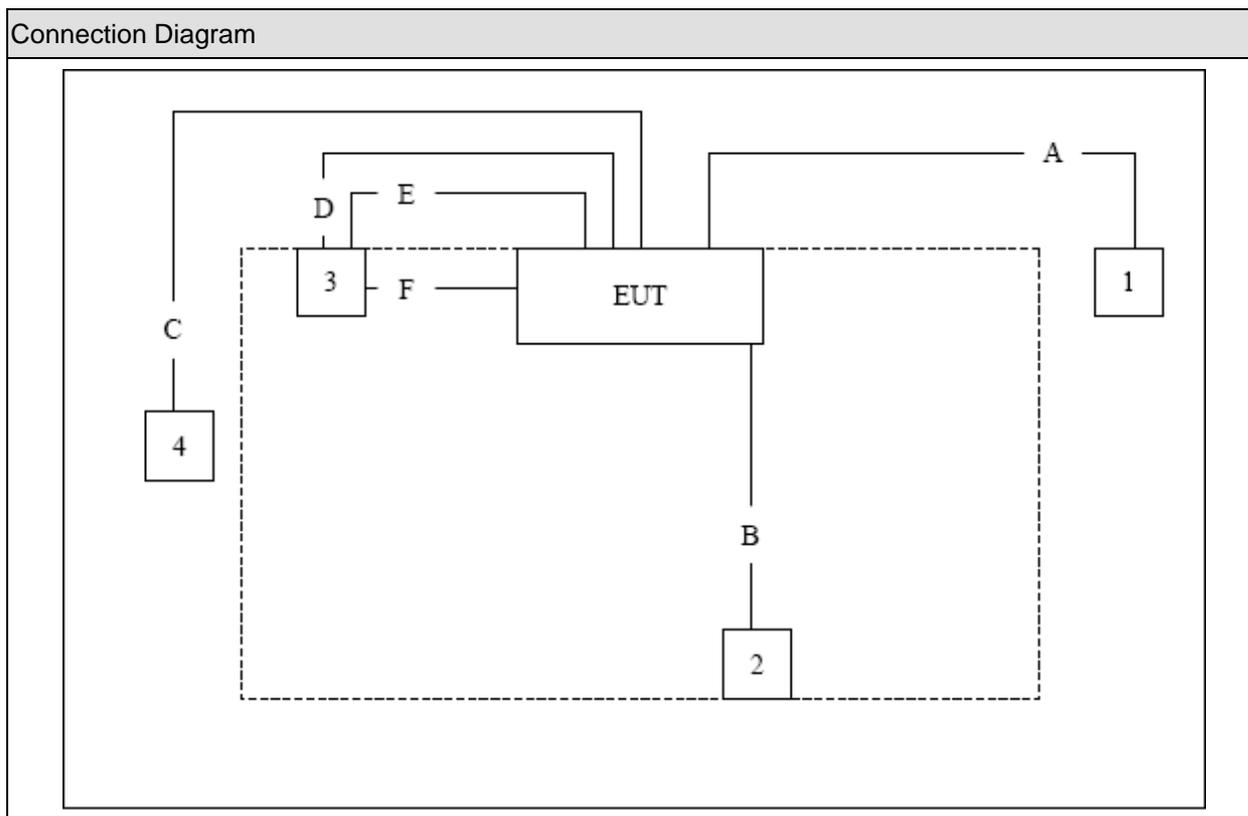
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 096S068-IT-US-P01V02.

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 adapter
2	iPod	Apple	A1199	6U715YSVVQ5	Power by PC
3	Switch	D-Link	DES-1016D	F30A15B001906	Non-Shielded, 1.8m
4	IP Express	ZyXEL	IES-1248-71	S523825530	Non-Shielded, 1.8m

1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, >10m
B	USB Cable	Shielded, 1.0m
C	Telecom Cable	Non-Shielded, >10m
D	LAN Cable	Non-Shielded, 1.8m
E	LAN Cable	Non-Shielded, 1.8m
F	LAN Cable	Non-Shielded, 1.8m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Input some command under DOS-Telnet in the notebook, make the EUT transmit or receive, start test.

2. Technical Test

2.1. Summary of Test Result

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

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2008 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	51
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

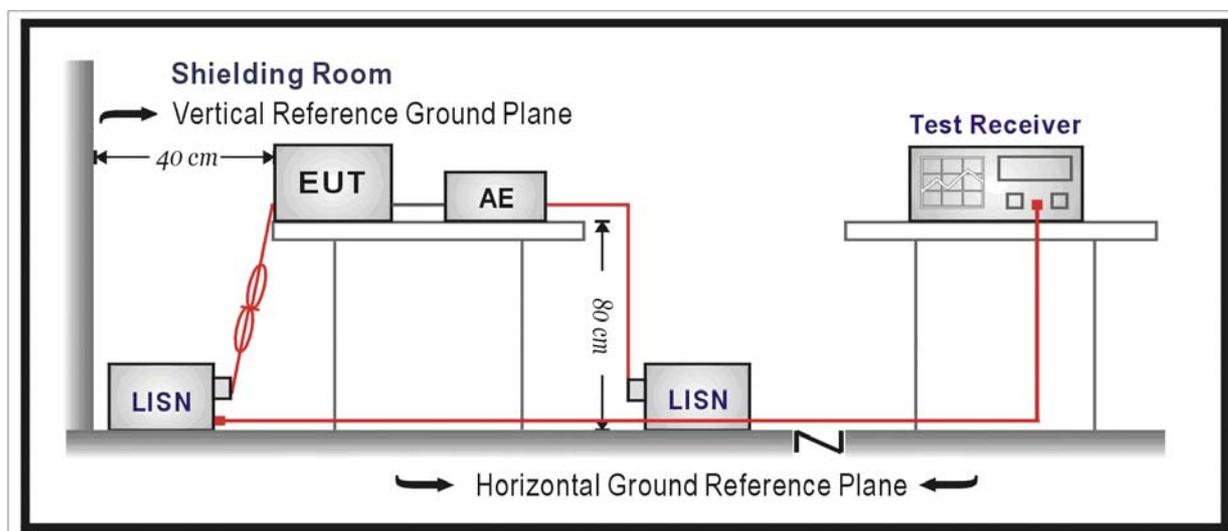
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2009/04/23
Two-Line V-Network	R&S	ENV216	100013	2009/06/11
Two-Line V-Network	R&S	ENV216	100014	2009/04/23
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2008/11/24
50ohm Termination	SHX	TF2	07081401	2008/09/28
Coaxial Cable	Luthi	RG214	519358	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2009/03/31

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

3.2. Test Setup



3.3. Limit

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

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

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

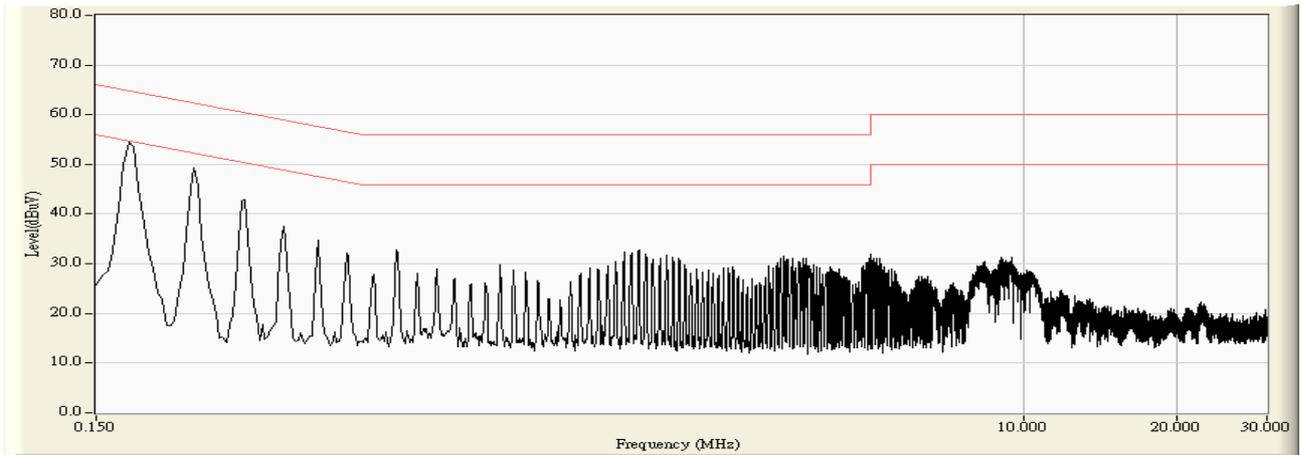
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

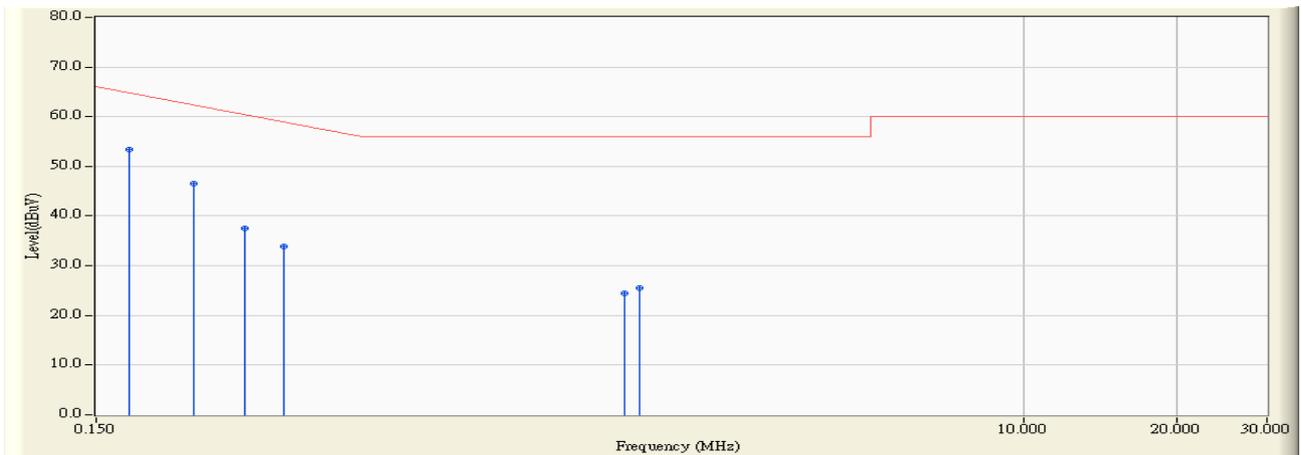
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:17
Limit : FCC_Part15.207_00M_QP	Margin : 10
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b

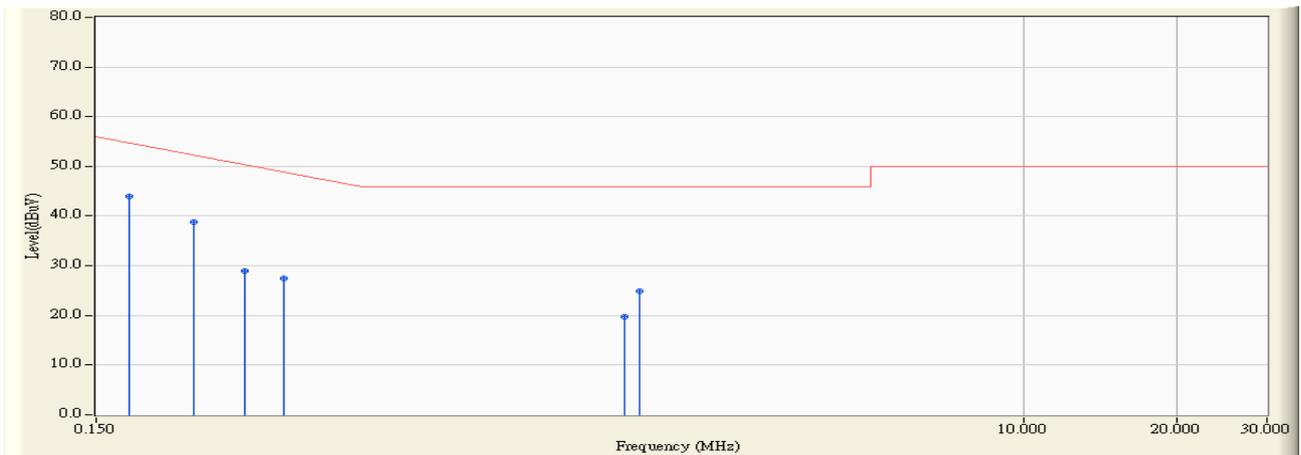


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:20
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b



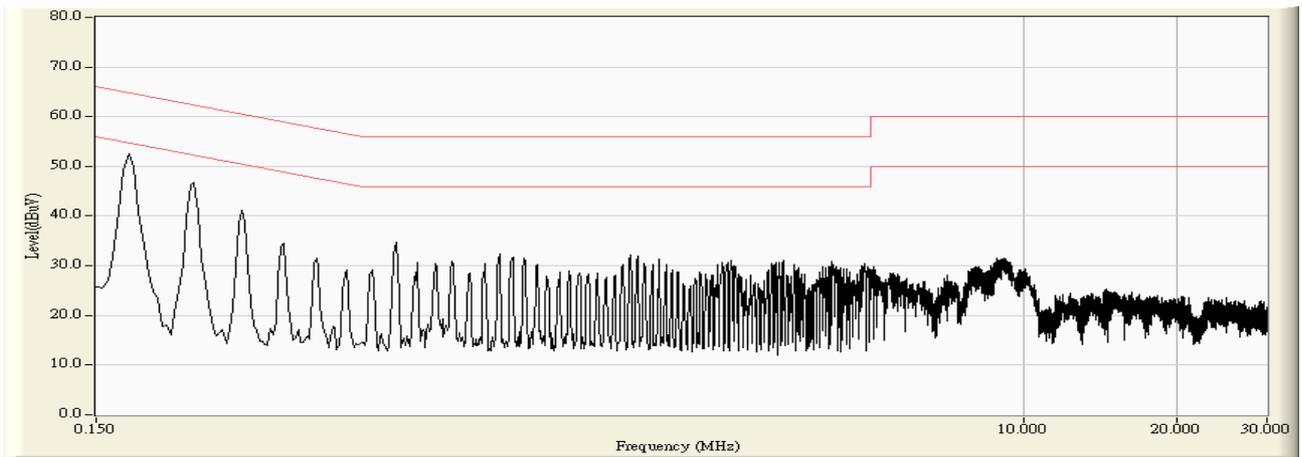
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.174	9.929	43.500	53.429	-11.338	64.767	QUASIPeAK
2		0.234	9.450	37.000	46.450	-15.857	62.307	QUASIPeAK
3		0.294	9.490	28.100	37.590	-22.821	60.411	QUASIPeAK
4		0.350	9.527	24.300	33.827	-25.135	58.962	QUASIPeAK
5		1.634	9.690	14.800	24.490	-31.510	56.000	QUASIPeAK
6		1.750	9.689	15.900	25.589	-30.411	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:20
Limit : FCC_Part15.207_00M_AV	Margin : 0
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b

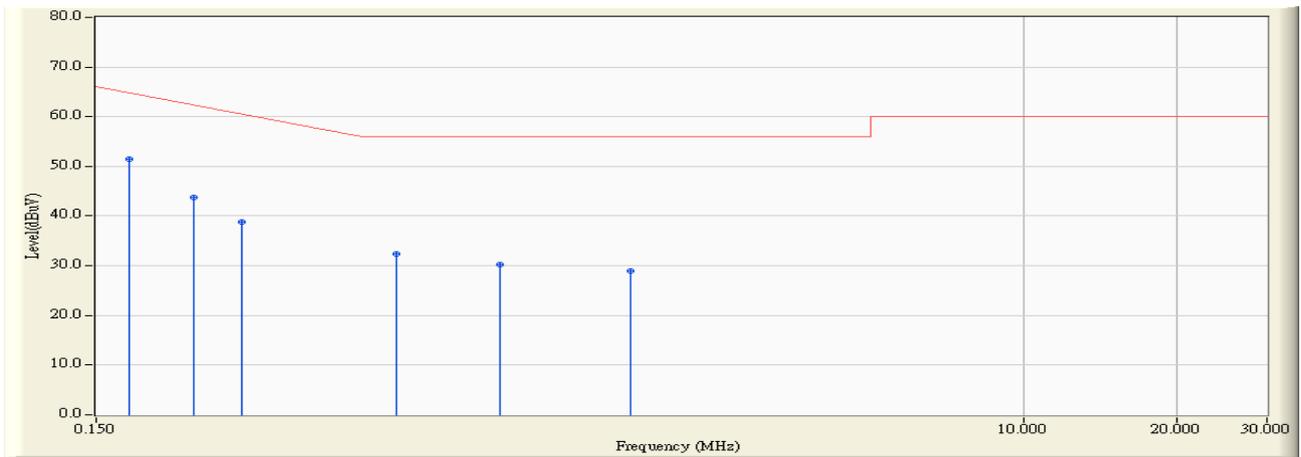


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.174	9.929	34.000	43.929	-10.838	54.767	AVERAGE
2		0.234	9.450	29.400	38.850	-13.457	52.307	AVERAGE
3		0.294	9.490	19.400	28.890	-21.521	50.411	AVERAGE
4		0.350	9.527	18.000	27.527	-21.435	48.962	AVERAGE
5		1.634	9.690	10.100	19.790	-26.210	46.000	AVERAGE
6		1.750	9.689	15.100	24.789	-21.211	46.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:23
Limit : FCC_Part15.207_00M_QP	Margin : 10
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b

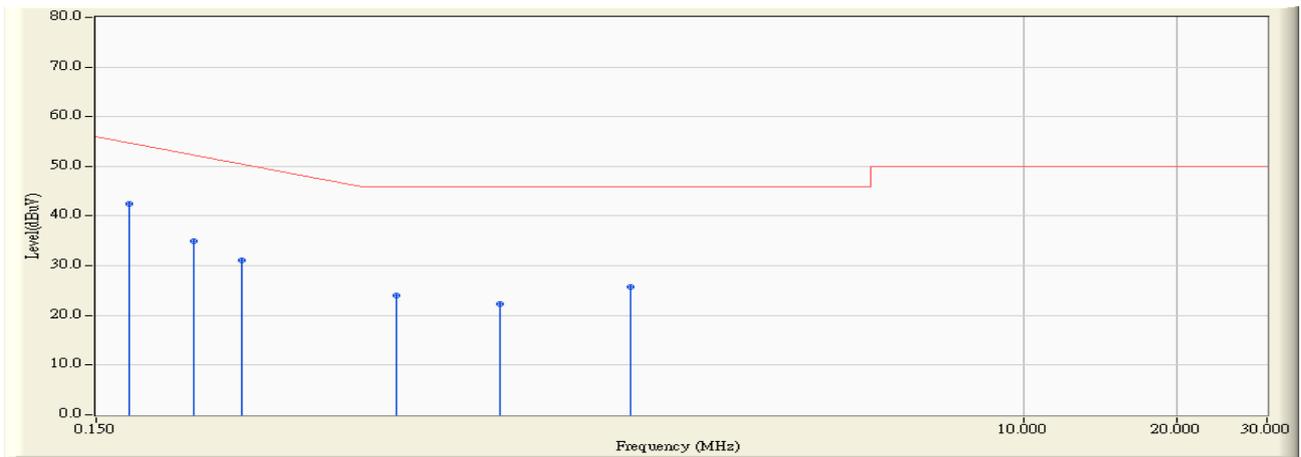


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:24
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.174	9.864	41.600	51.464	-13.303	64.767	QUASIPeAK
2		0.234	9.580	34.200	43.780	-18.527	62.307	QUASIPeAK
3		0.290	9.590	29.300	38.890	-21.634	60.524	QUASIPeAK
4		0.582	9.682	22.800	32.482	-23.518	56.000	QUASIPeAK
5		0.930	9.770	20.500	30.270	-25.730	56.000	QUASIPeAK
6		1.682	9.690	19.200	28.890	-27.110	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/06/19 - 15:24
Limit : FCC_Part15.207_00M_AV	Margin : 0
EUT : Home Gateway	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.174	9.864	32.600	42.464	-12.303	54.767	AVERAGE
2		0.234	9.580	25.400	34.980	-17.327	52.307	AVERAGE
3		0.290	9.590	21.600	31.190	-19.334	50.524	AVERAGE
4		0.582	9.682	14.300	23.982	-22.018	46.000	AVERAGE
5		0.930	9.770	12.500	22.270	-23.730	46.000	AVERAGE
6		1.682	9.690	16.100	25.790	-20.210	46.000	AVERAGE

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/11/12
EMI Test Receiver	R&S	ESCI	100573	2009/04/23
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2009/02/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2009/06/11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/31

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2009/05/05
Bilog Type Antenna	Schaffner	CBL6112D	22254	2009/02/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2009/06/11
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2009/05/25

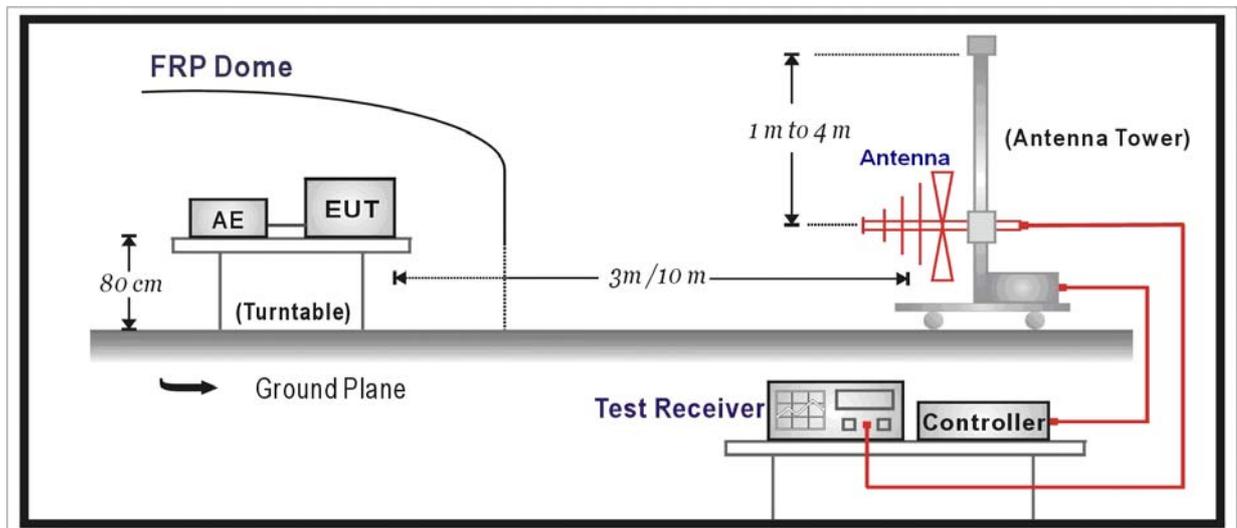
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/31
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

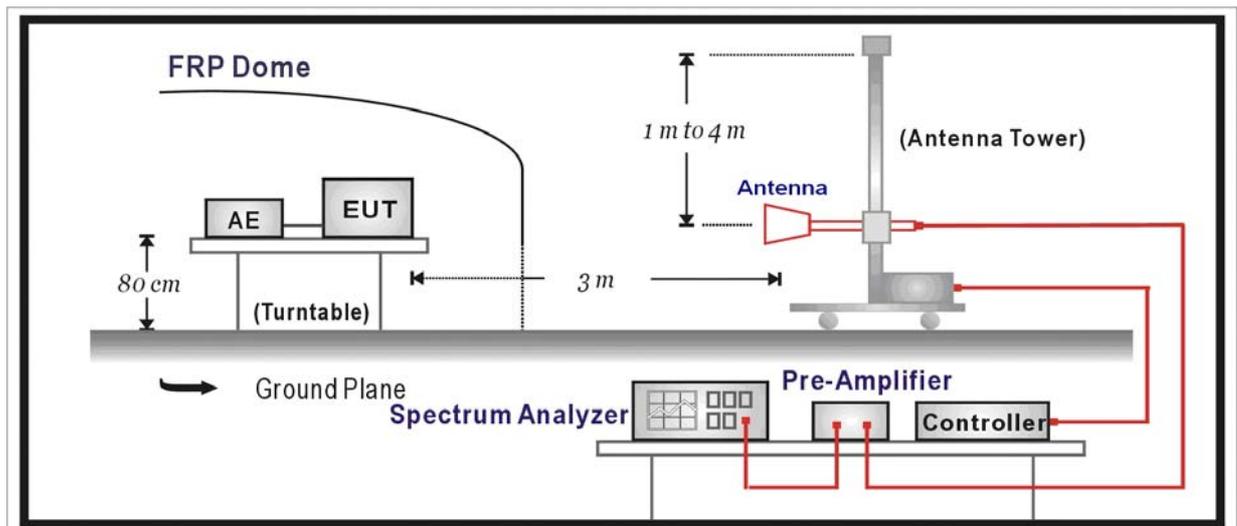
Note 2: The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

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

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

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

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

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

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

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

Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

4.5. Uncertainty

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

below 1G is defined as ± 3.8 dB

4.6. Test Result

Below 1GHz

Mode 1: 802.11b (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
105.5	H	25.2	43.5	-18.3	QP	120.5	125.8
254.5	H	30.1	43.5	-13.4	QP	125.0	195.8
399.8	H	32.8	46.0	-13.2	QP	114.2	144.8
105.5	V	25.2	43.5	-18.3	QP	114.2	144.8
254.5	V	25.9	43.5	-17.6	QP	120.5	65.8
399.8	V	25.8	46.0	-20.2	QP	110.5	105.8
Channel 6 (2437MHz)							
266.2	H	32.6	46.0	-13.4	QP	100.0	12.0
467.5	H	31.3	46.0	-14.7	QP	104.0	42.0
608.9	H	34.6	46.0	-11.4	QP	110.0	264.0
266.2	V	25.9	46.0	-20.1	QP	100.0	128.0
467.5	V	27.2	46.0	-18.8	QP	106.0	328.0
608.9	V	29.6	46.0	-16.4	QP	112.0	86.0
Channel 11 (2462MHz)							
225.5	H	36.4	46.0	-9.6	QP	120.0	28.0
310.7	H	35.8	46.0	-10.2	QP	140.0	20.0
382.3	H	35.4	46.0	-10.6	QP	162.0	262.0
227.4	V	29.2	46.0	-16.8	QP	124.0	164.0
310.7	V	33.5	46.0	-12.5	QP	147.0	188.0
415.2	V	35.6	46.0	-10.4	QP	150.0	206.0

Mode 2: 802.11g (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
248.7	H	33.7	46.0	-12.3	QP	120.5	65.8
415.2	H	28.4	46.0	-17.6	QP	120.5	65.8
767.6	H	34.9	46.0	-11.1	QP	114.2	144.8
248.7	V	26.0	46.0	-20.0	QP	114.2	144.8
415.2	V	25.9	46.0	-20.1	QP	120.5	65.8
767.6	V	31.4	46.0	-14.6	QP	120.5	65.8
Channel 6 (2437MHz)							
105.5	H	25.2	43.5	-18.3	QP	120.5	65.8
254.5	H	30.1	43.5	-13.4	QP	120.5	65.8
399.8	H	32.8	46.0	-13.2	QP	114.2	144.8
105.5	V	25.2	43.5	-18.3	QP	114.2	144.8
254.5	V	25.9	43.5	-17.6	QP	120.5	65.8
399.8	V	25.8	46.0	-20.2	QP	120.5	65.8
Channel 11 (2462MHz)							
225.5	H	36.4	46.0	-9.6	QP	120.5	65.8
310.7	H	35.8	46.0	-10.2	QP	120.5	65.8
382.3	H	35.4	46.0	-10.6	QP	114.2	144.8
227.4	V	29.2	46.0	-16.8	QP	114.2	144.8
310.7	V	33.5	46.0	-12.5	QP	120.5	65.8
415.2	V	35.6	46.0	-10.4	QP	120.5	65.8

Mode 3: 802.11n(20MHz) (Chain 0+1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
248.7	H	33.7	46.0	-12.3	QP	100.0	12.0
415.2	H	28.4	46.0	-17.6	QP	102.0	40.0
767.6	H	34.9	46.0	-11.1	QP	112.0	260.0
248.7	V	26.0	46.0	-20.0	QP	100.0	132.0
415.2	V	25.9	46.0	-20.1	QP	105.0	330.0
767.6	V	31.4	46.0	-14.6	QP	110.0	88.0
Channel 6 (2437MHz)							
105.5	H	25.2	43.5	-18.3	QP	124.0	26.0
254.5	H	30.1	43.5	-13.4	QP	144.0	22.0
399.8	H	32.8	46.0	-13.2	QP	160.0	260.0
105.5	V	25.2	43.5	-18.3	QP	125.0	164.0
254.5	V	25.9	43.5	-17.6	QP	146.0	189.0
399.8	V	25.8	46.0	-20.2	QP	150.0	204.0
Channel 11 (2462MHz)							
119.0	H	30.4	43.5	-13.1	QP	100.0	15.0
190.6	H	28.3	43.5	-15.2	QP	102.0	40.0
254.5	H	38.0	46.0	-8.0	QP	112.0	260.0
119.0	V	31.7	43.5	-11.8	QP	100.0	133.0
190.6	V	25.8	43.5	-17.7	QP	105.0	330.0
244.9	V	33.6	46.0	-12.4	QP	110.0	88.0

Mode 4: 802.11n(40MHz) (Chain 0+1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
105.5	H	25.2	43.5	-18.3	QP	124.0	26.0
254.5	H	30.1	43.5	-13.4	QP	142.0	22.0
399.8	H	32.8	46.0	-13.2	QP	160.0	260.0
105.5	V	25.2	43.5	-18.3	QP	125.0	164.0
254.5	V	25.9	43.5	-17.6	QP	146.0	189.0
399.8	V	25.8	46.0	-20.2	QP	150.0	204.0
Channel 6 (2437MHz)							
248.7	H	33.7	46.0	-12.3	QP	100.0	24.0
415.2	H	28.4	46.0	-17.6	QP	102.0	40.0
767.6	H	34.9	46.0	-11.1	QP	112.0	260.0
248.7	V	26.0	46.0	-20.0	QP	100.0	133.0
415.2	V	25.9	46.0	-20.1	QP	105.0	330.0
767.6	V	31.4	46.0	-14.6	QP	110.0	88.0
Channel 9 (2452MHz)							
105.5	H	25.2	43.5	-18.3	QP	124.0	26.0
190.6	H	28.3	43.5	-15.2	QP	141.0	22.0
767.6	H	34.9	46.0	-11.1	QP	160.0	262.0
105.5	V	25.2	43.5	-18.3	QP	125.0	164.0
190.6	V	25.8	43.5	-17.7	QP	146.0	189.0
767.6	V	31.4	46.0	-14.6	QP	150.0	204.0

Above 1GHz

Mode 1: 802.11b (Chain 0)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4825.0	H	51.0	74	-23.0	PK	160.5	225.2
4825.0	H	36.2	54	-17.8	AV	160.5	225.2
4825.0	V	47.9	74	-26.1	PK	160.5	184.8
4825.0	V	33.5	54	-20.5	AV	160.5	184.8
Channel 6 (2437MHz)							
4869.4	H	49.7	74	-24.3	PK	155.2	222.6
4869.4	H	35.2	54	-18.8	AV	155.2	222.6
4869.4	V	47.6	74	-26.4	PK	155.2	182.2
4869.4	V	33.1	54	-20.9	AV	155.2	182.2
Channel 11 (2462MHz)							
4920.4	H	50.3	74	-23.7	PK	152.0	200.0
4920.4	H	36.1	54	-17.9	AV	152.0	200.0
4920.4	V	45.7	74	-28.3	PK	152.0	188.1
4920.4	V	31.2	54	-22.8	AV	152.0	188.1

Mode 1: 802.11b (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	55.3	74	-18.7	PK	160.5	225.2
4826.9	H	41.0	54	-13.0	AV	160.5	225.2
4826.9	V	58.2	74	-15.8	PK	160.5	184.8
4826.9	V	43.7	54	-10.3	AV	160.5	184.8
Channel 6 (2437MHz)							
4869.4	H	57.5	74	-16.5	PK	155.2	222.6
4869.4	H	42.8	54	-11.2	AV	155.2	222.6
4869.4	V	60.7	74	-13.3	PK	155.2	182.2
4869.4	V	46.1	54	-7.9	AV	155.2	182.2
Channel 11 (2462MHz)							
4920.4	H	58.5	74	-15.5	PK	152.0	200.0
4920.4	H	44.1	54	-9.9	AV	152.0	200.0
4920.4	V	59.3	74	-14.7	PK	152.0	188.1
4920.4	V	45.0	54	-9.0	AV	152.0	188.1

Mode 2: 802.11g (Chain 0)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4818.4	H	51.3	74	-22.7	PK	160.5	225.2
4818.4	H	36.7	54	-17.3	AV	160.5	225.2
4818.4	V	47.4	74	-26.6	PK	160.5	184.8
4818.4	V	33.1	54	-20.9	AV	160.5	184.8
Channel 6 (2437MHz)							
4877.9	H	52.2	74	-21.8	PK	155.2	222.6
4877.9	H	37.8	54	-16.2	AV	155.2	222.6
4877.9	V	46.7	74	-27.3	PK	155.2	182.2
4877.9	V	32.3	54	-21.7	AV	155.2	182.2
Channel 11 (2462MHz)							
4928.9	H	53.9	74	-20.1	PK	152.0	200.0
4928.9	H	39.3	54	-14.7	AV	152.0	200.0
4928.9	V	47.4	74	-26.6	PK	152.0	188.1
4928.9	V	33.1	54	-20.9	AV	152.0	188.1

Mode 2: 802.11g (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	53.3	74	-20.7	PK	160.5	225.2
4826.9	H	39.1	54	-14.9	AV	160.5	225.2
4826.9	V	56.3	74	-17.7	PK	160.5	184.8
4826.9	V	41.8	54	-12.2	AV	160.5	184.8
Channel 6 (2437MHz)							
4869.4	H	61.1	74	-12.9	PK	155.2	222.6
4869.4	H	46.3	54	-7.7	AV	155.2	222.6
4869.4	V	62.9	74	-11.1	PK	155.2	182.2
4869.4	V	48.4	54	-5.6	AV	155.2	182.2
Channel 11 (2462MHz)							
4928.9	H	59.5	74	-14.5	PK	152.0	200.0
4928.9	H	45.1	54	-8.9	AV	152.0	200.0
4928.9	V	60.5	74	-13.5	PK	152.0	188.1
4928.9	V	46.1	54	-7.9	AV	152.0	188.1

Mode 3: 802.11n (20MHz) (Chain 0)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	51.0	74	-23.0	PK	160.5	225.2
4826.9	H	36.6	54	-17.4	AV	160.5	225.2
4826.9	V	46.6	74	-27.4	PK	160.5	184.8
4826.9	V	32.2	54	-21.8	AV	160.5	184.8
Channel 6 (2437MHz)							
4877.9	H	46.6	74	-27.4	PK	155.2	222.6
4877.9	H	32.1	54	-21.9	AV	155.2	222.6
4877.9	V	52.7	74	-21.3	PK	155.2	182.2
4877.9	V	38.1	54	-15.9	AV	155.2	182.2
Channel 11 (2462MHz)							
4920.4	H	52.8	74	-21.2	PK	152.0	200.0
4920.4	H	37.6	54	-16.4	AV	152.0	200.0
4920.4	V	45.7	74	-28.3	PK	152.0	188.1
4920.4	V	30.3	54	-23.7	AV	152.0	188.1

Mode 3: 802.11n (20MHz) (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	55.8	74	-18.2	PK	160.5	225.2
4826.9	H	31.4	54	-22.6	AV	160.5	225.2
4826.9	V	56.5	74	-17.5	PK	160.5	184.8
4826.9	V	32.1	54	-21.9	AV	160.5	184.8
Channel 6 (2437MHz)							
4869.4	H	49.9	74	-24.1	PK	155.2	222.6
4869.4	H	35.4	54	-18.6	AV	155.2	222.6
4869.4	V	63.2	74	-10.8	PK	155.2	182.2
4869.4	V	48.5	54	-5.5	AV	155.2	182.2
Channel 11 (2462MHz)							
4920.4	H	61.4	74	-12.6	PK	152.0	200.0
4920.4	H	47.0	54	-7.0	AV	152.0	200.0
4920.4	V	63.6	74	-10.4	PK	152.0	188.1
4920.4	V	49.2	54	-4.8	AV	152.0	188.1

Mode 3: 802.11n (20MHz) (Chain 0+1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	43.1	74	-30.9	PK	160.5	225.2
4826.9	H	28.6	54	-25.4	AV	160.5	225.2
4826.9	V	42.5	74	-31.5	PK	160.5	184.8
4826.9	V	28.1	54	-25.9	AV	160.5	184.8
Channel 6 (2437MHz)							
4877.9	H	43.6	74	-30.4	PK	155.2	222.6
4877.9	H	29.2	54	-24.8	AV	155.2	222.6
4877.9	V	43.7	74	-30.3	PK	155.2	182.2
4877.9	V	29.2	54	-24.8	AV	155.2	182.2
Channel 11 (2462MHz)							
4920.4	H	43.7	74	-30.3	PK	152.0	200.0
4920.4	H	29.1	54	-24.9	AV	152.0	200.0
4920.4	V	42.5	74	-31.5	PK	152.0	188.1
4920.4	V	28.1	54	-25.9	AV	152.0	188.1

Mode 4: 802.11n (40MHz) (Chain 0)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
4877.9	H	47.0	74	-27.0	PK	160.5	225.2
4877.9	H	32.3	54	-21.7	AV	160.5	225.2
4877.9	V	44.5	74	-29.5	PK	160.5	184.8
4877.9	V	30.1	54	-23.9	AV	160.5	184.8
Channel 6 (2437MHz)							
4877.9	H	48.6	74	-25.4	PK	155.2	222.6
4877.9	H	34.2	54	-19.8	AV	155.2	222.6
4877.9	V	44.6	74	-29.4	PK	155.2	182.2
4877.9	V	30.1	54	-23.9	AV	155.2	182.2
Channel 9 (2452MHz)							
4903.4	H	49.2	74	-24.8	PK	152.0	200.0
4903.4	H	35.8	54	-18.2	AV	152.0	200.0
4903.4	V	45.2	74	-28.8	PK	152.0	188.1
4903.4	V	30.5	54	-23.5	AV	152.0	188.1

Mode 4: 802.11n (40MHz) (Chain 1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
4843.9	H	45.5	74	-28.5	PK	160.5	225.2
4843.9	H	31.2	54	-22.8	AV	160.5	225.2
4843.9	V	48.7	74	-25.3	PK	160.5	184.8
4843.9	V	34.2	54	-19.8	AV	160.5	184.8
Channel 6 (2437MHz)							
4894.9	H	48.0	74	-26.0	PK	155.2	222.6
4894.9	H	33.4	54	-20.6	AV	155.2	222.6
4894.9	V	50.7	74	-23.3	PK	155.2	182.2
4894.9	V	36.1	54	-17.9	AV	155.2	182.2
Channel 9 (2452MHz)							
4903.4	H	48.7	74	-25.3	PK	152.0	200.0
4903.4	H	34.1	54	-19.9	AV	152.0	200.0
4903.4	V	48.4	74	-25.6	PK	152.0	188.1
4903.4	V	34.1	54	-19.9	AV	152.0	188.1

Mode 4: 802.11n (40MHz) (Chain 0+1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
4843.9	H	48.7	74	-25.3	PK	160.5	225.2
4843.9	H	34.3	54	-19.7	AV	160.5	225.2
4843.9	V	50.2	74	-23.8	PK	160.5	184.8
4843.9	V	35.6	54	-18.4	AV	160.5	184.8
Channel 6 (2437MHz)							
4877.9	H	48.9	74	-25.1	PK	155.2	222.6
4877.9	H	34.3	54	-19.7	AV	155.2	222.6
4877.9	V	51.5	74	-22.5	PK	155.2	182.2
4877.9	V	37.1	54	-16.9	AV	155.2	182.2
Channel 9 (2452MHz)							
4928.9	H	54.1	74	-19.9	PK	152.0	200.0
4928.9	H	39.4	54	-14.6	AV	152.0	200.0
4928.9	V	54.3	74	-19.7	PK	152.0	188.1
4928.9	V	39.7	54	-14.3	AV	152.0	188.1

5. RF Antenna Conducted Spurious

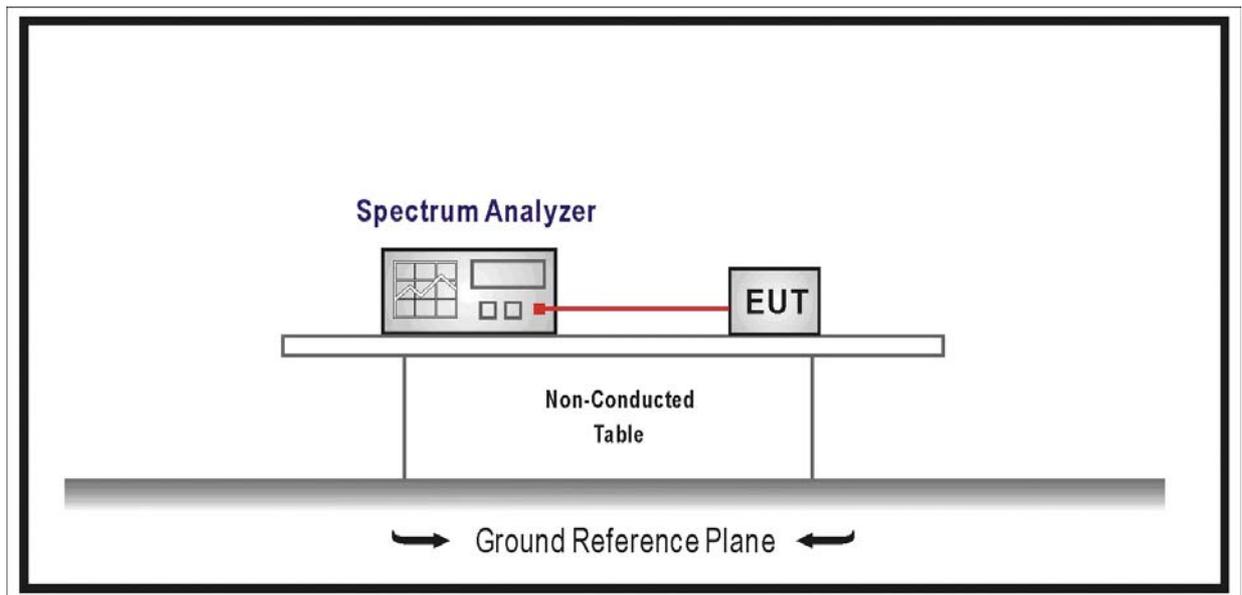
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/31

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

5.2. Test Setup



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4. Test Procedure

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

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

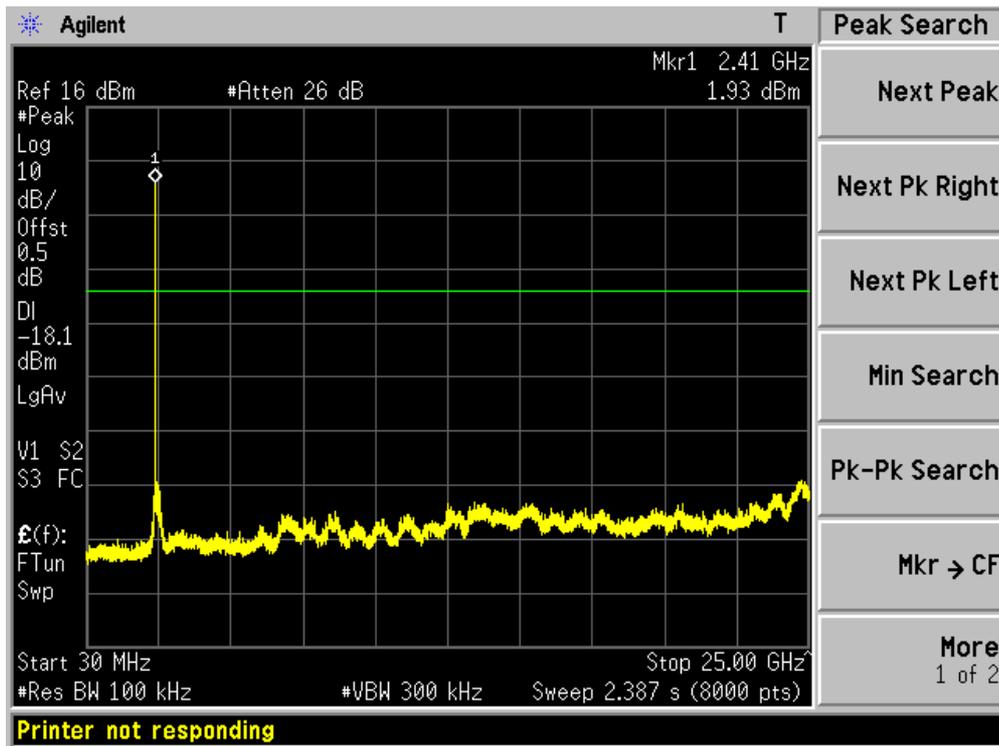
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

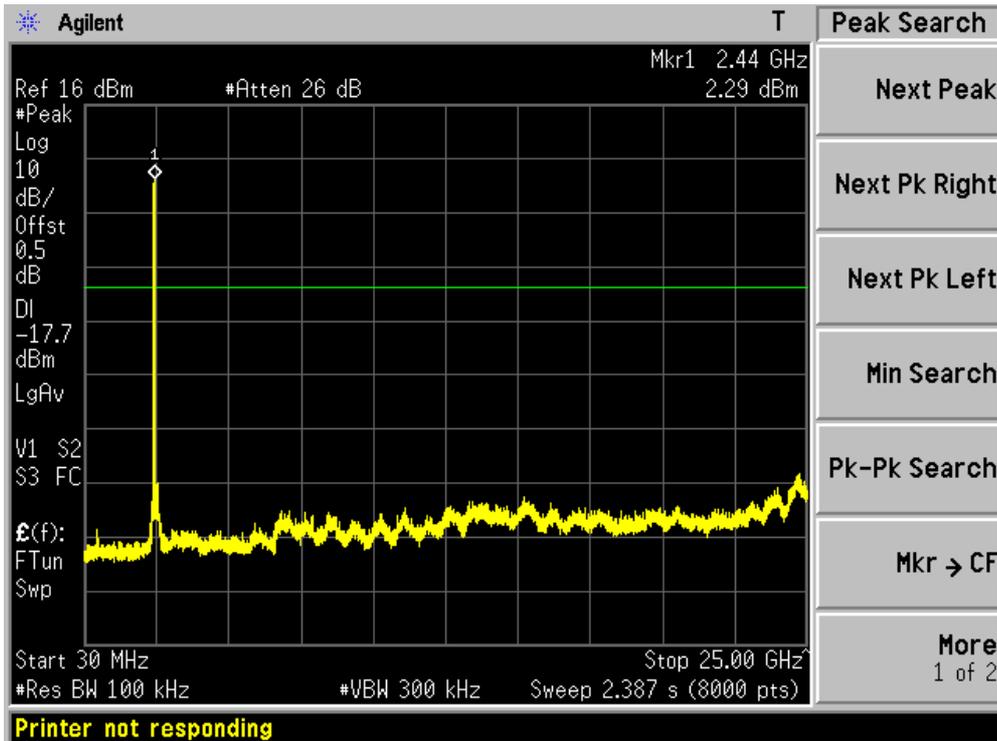
5.6. Test Result

Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

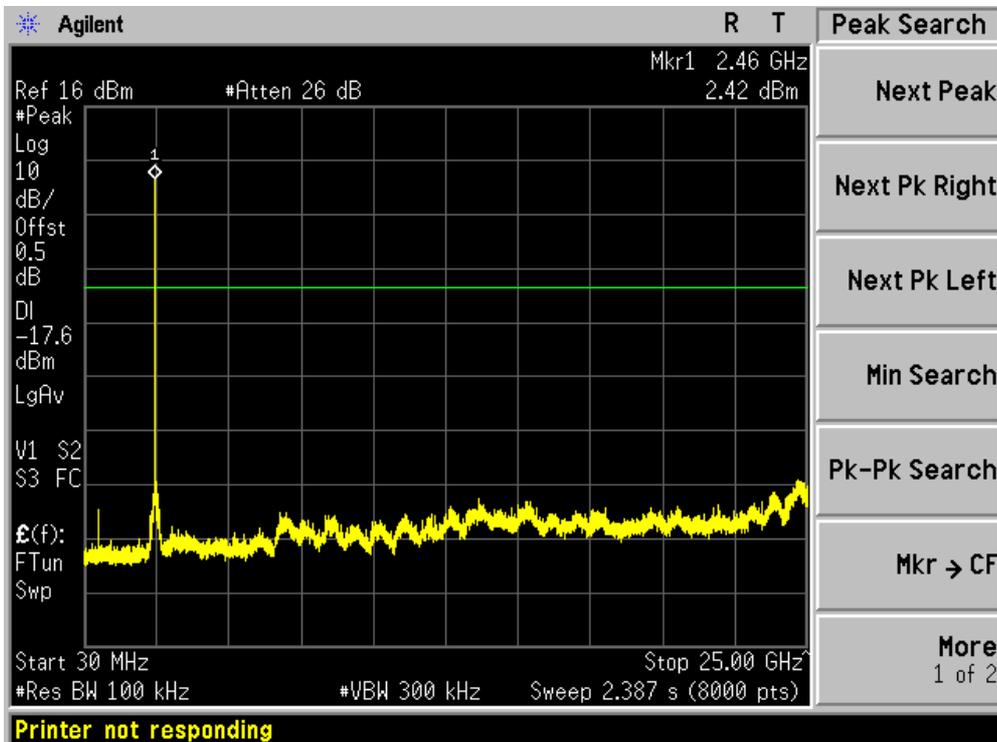
Channel 01 (2412MHz)



Channel 06 (2437MHz)

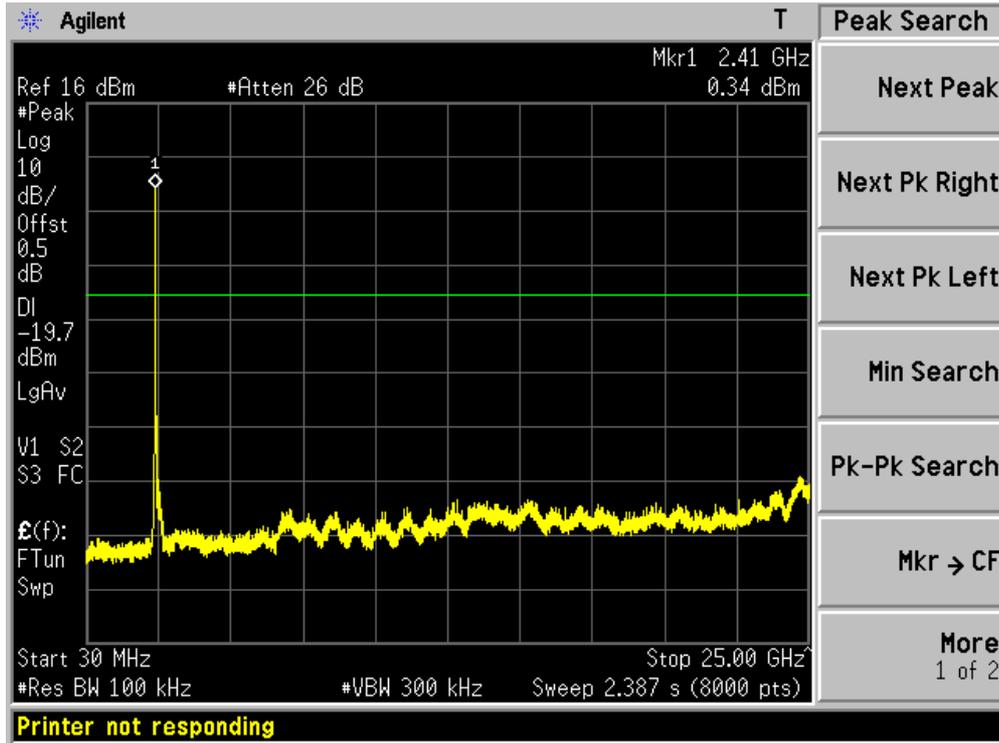


Channel 11 (2462MHz)

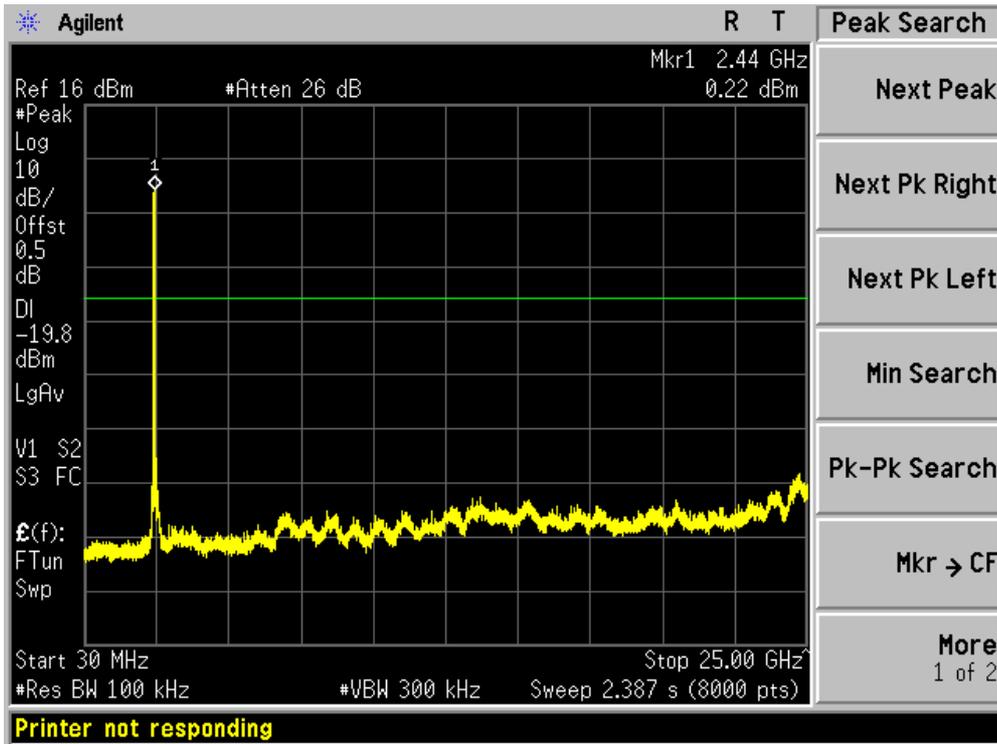


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

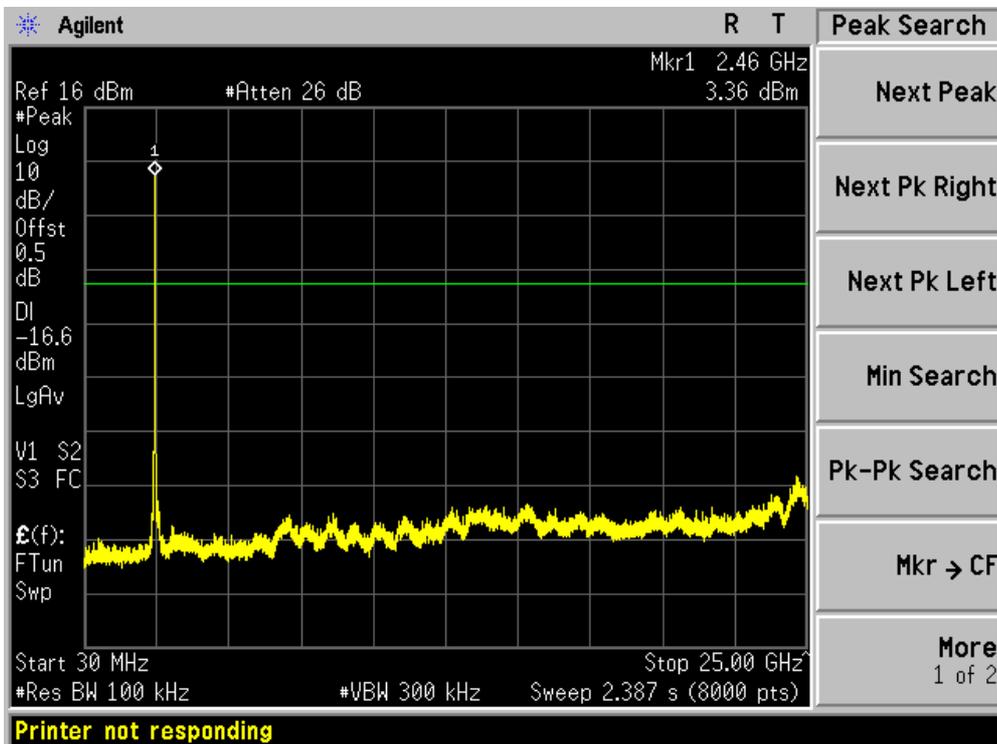
Channel 01 (2412MHz)



Channel 06 (2437MHz)

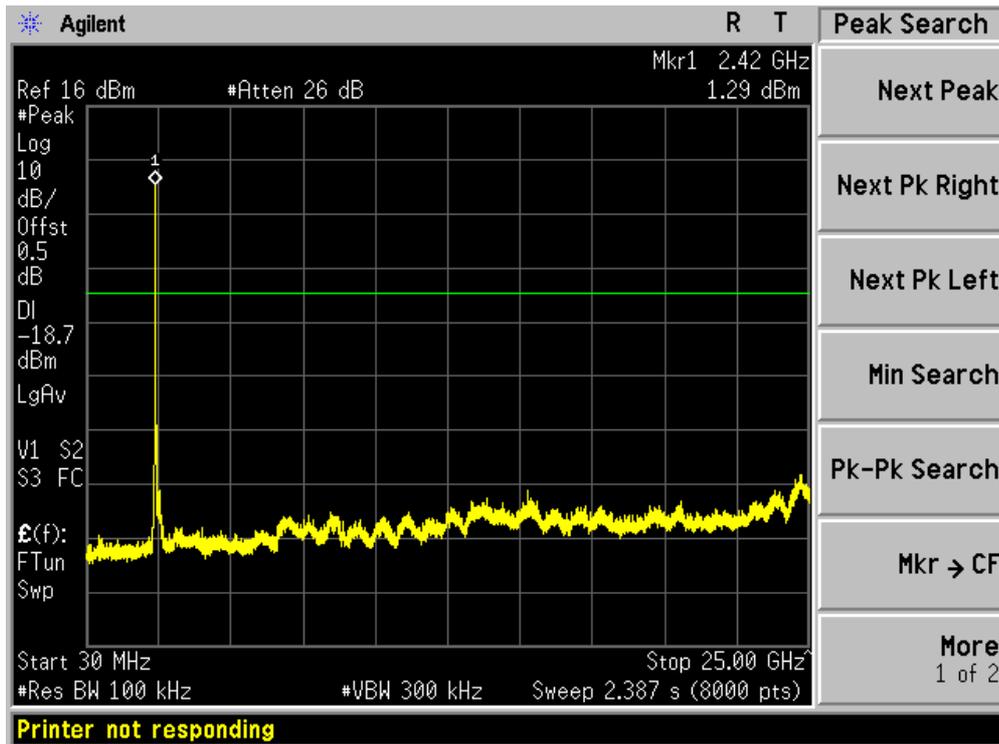


Channel 11 (2462MHz)

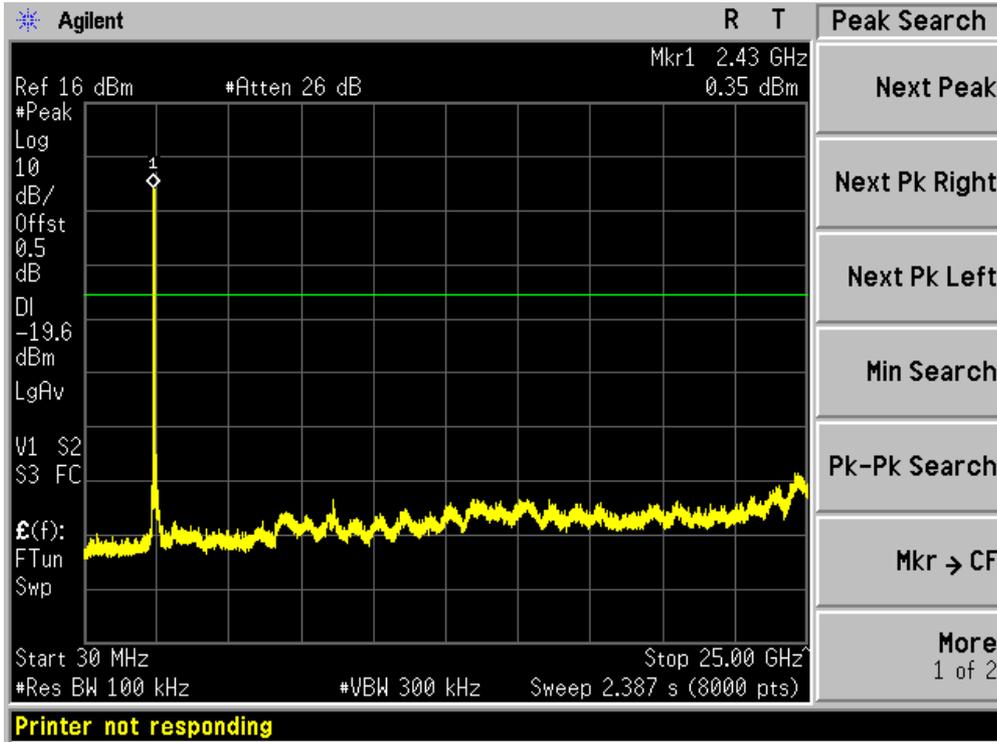


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0)

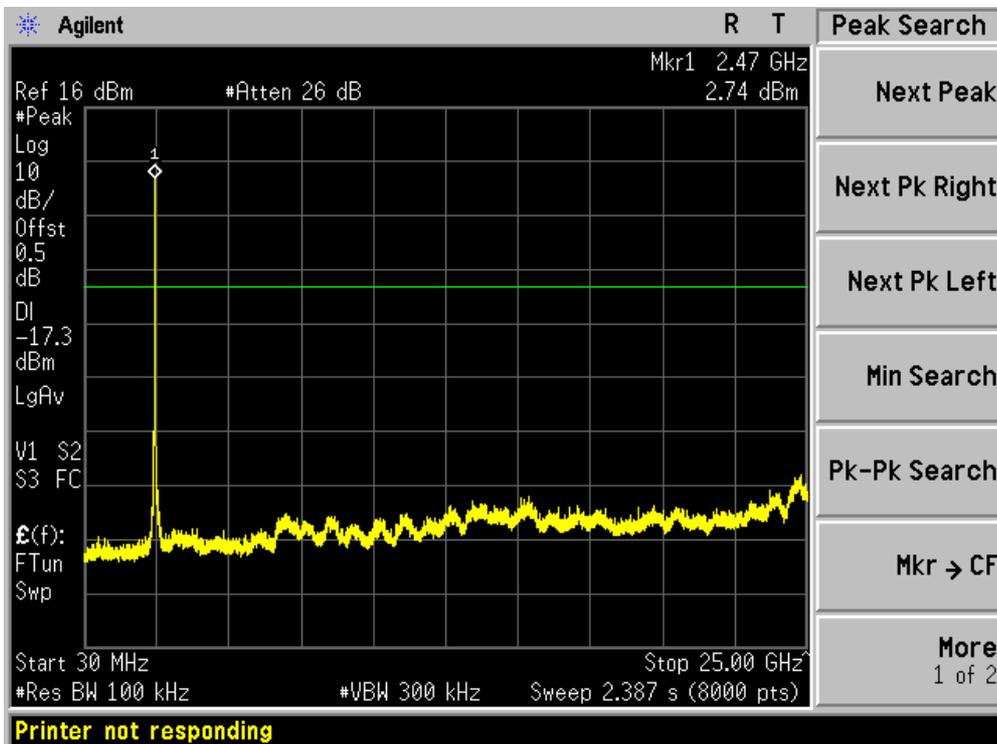
Channel 01 (2412MHz)



Channel 06 (2437MHz)

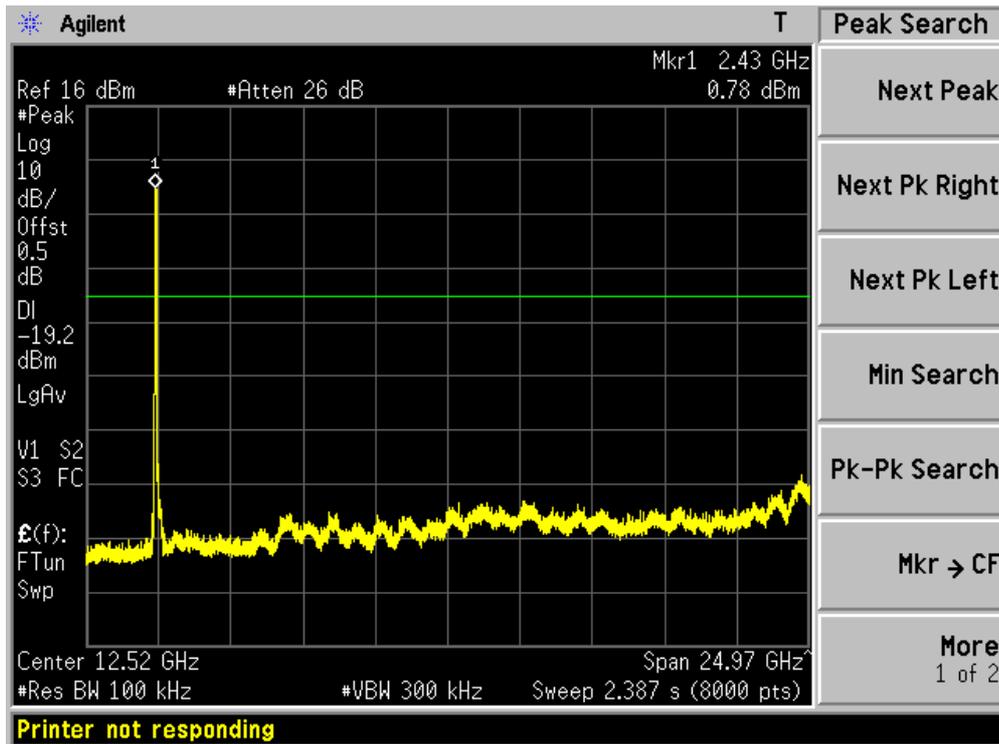


Channel 11 (2462MHz)

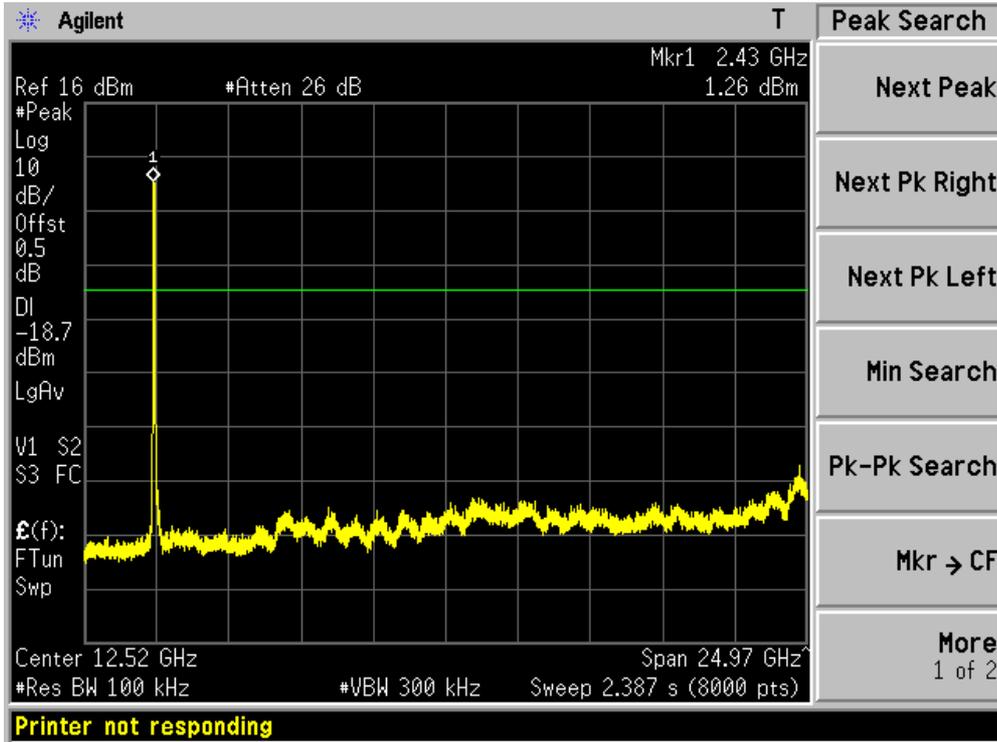


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0)

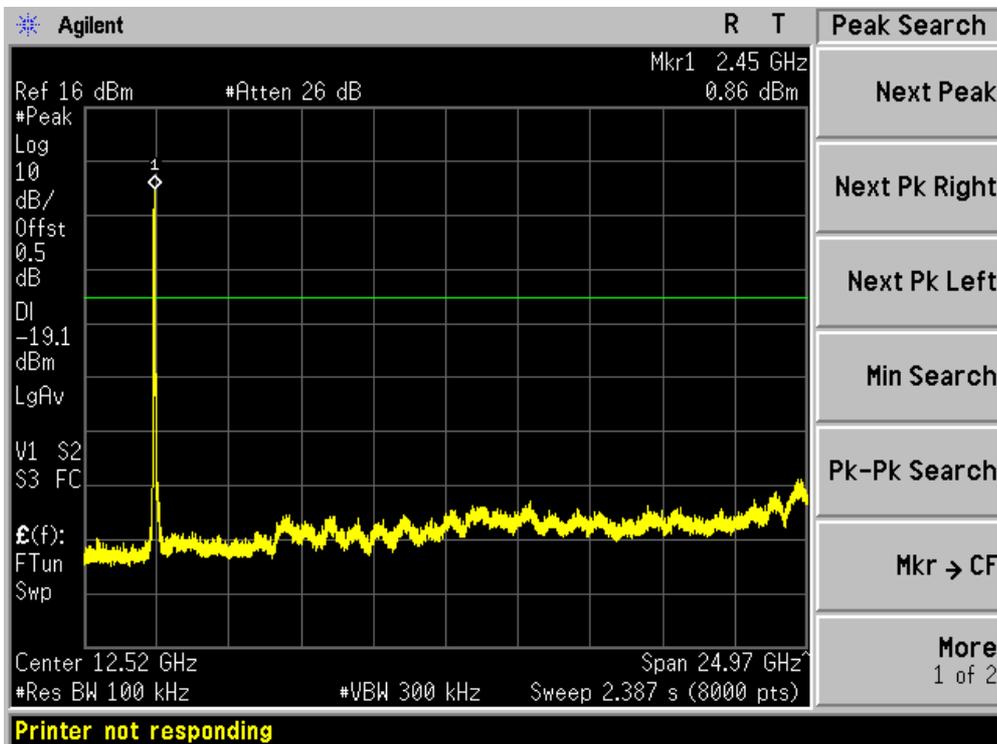
Channel 03 (2422MHz)



Channel 06 (2437MHz)

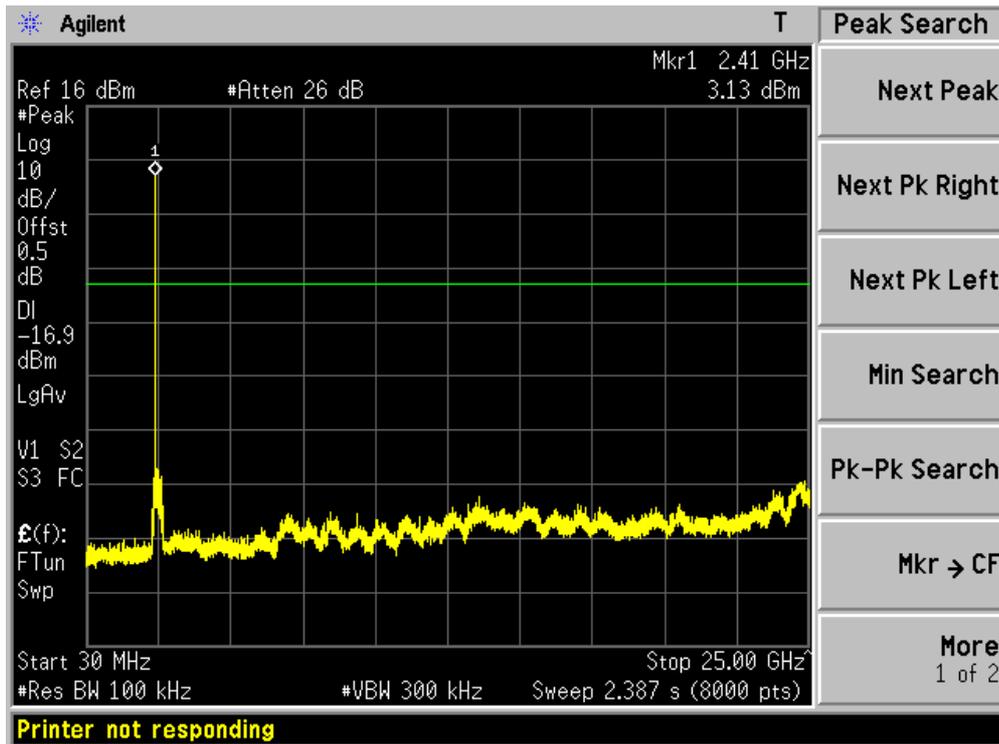


Channel 09 (2452MHz)



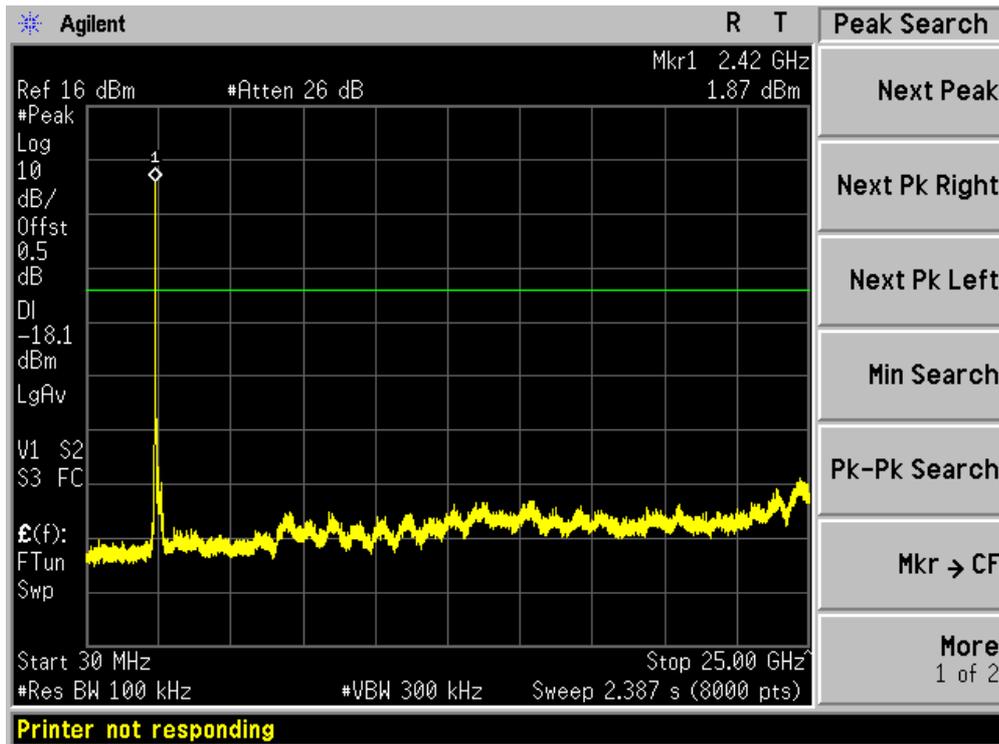
Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 1)

Channel 01 (2412MHz)

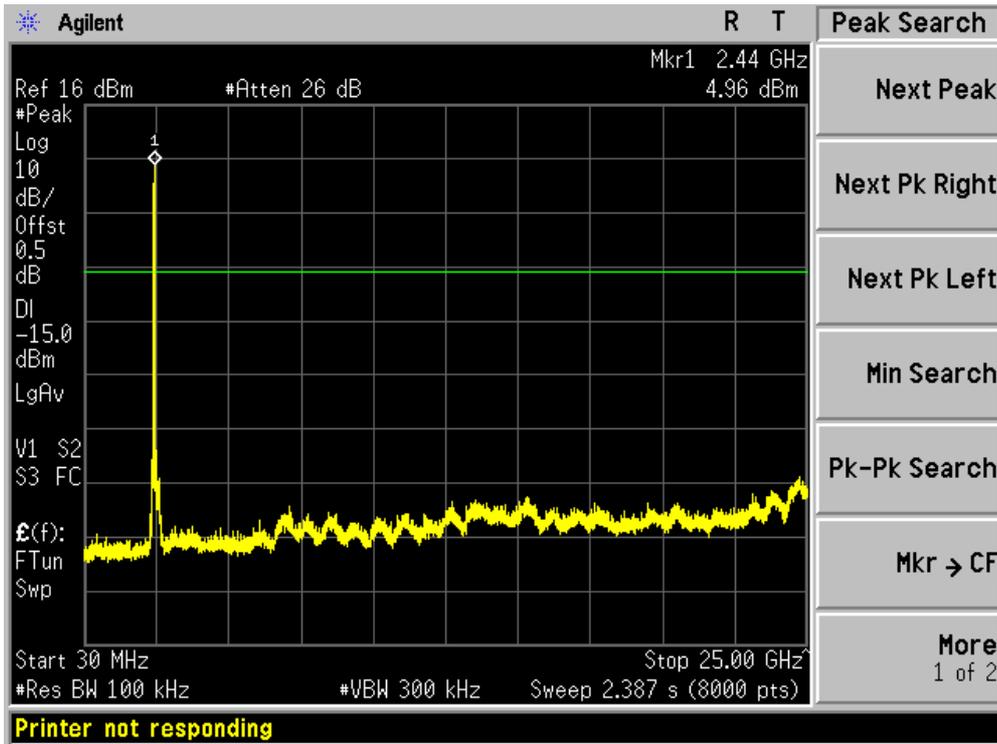


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 1)

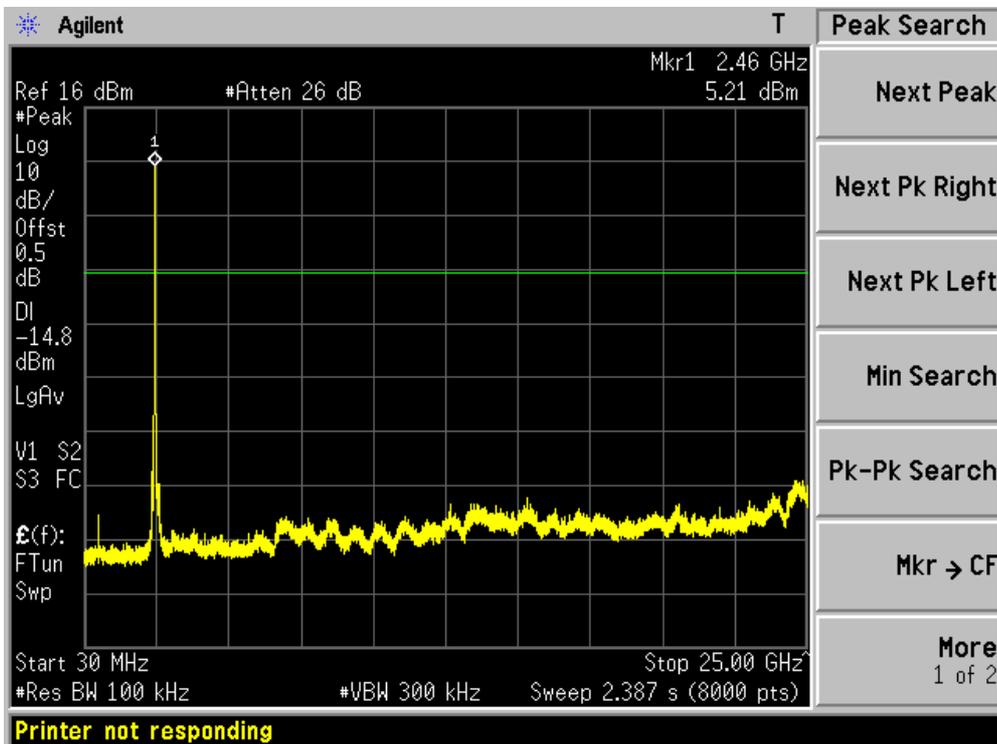
Channel 01 (2412MHz)



Channel 06 (2437MHz)

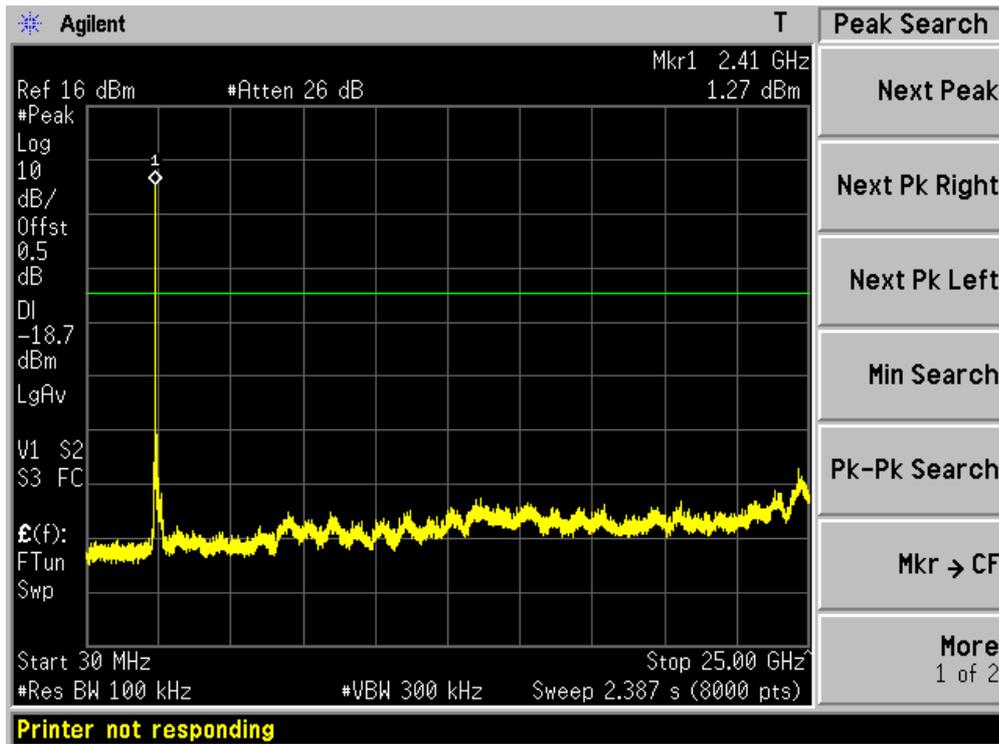


Channel 11 (2462MHz)

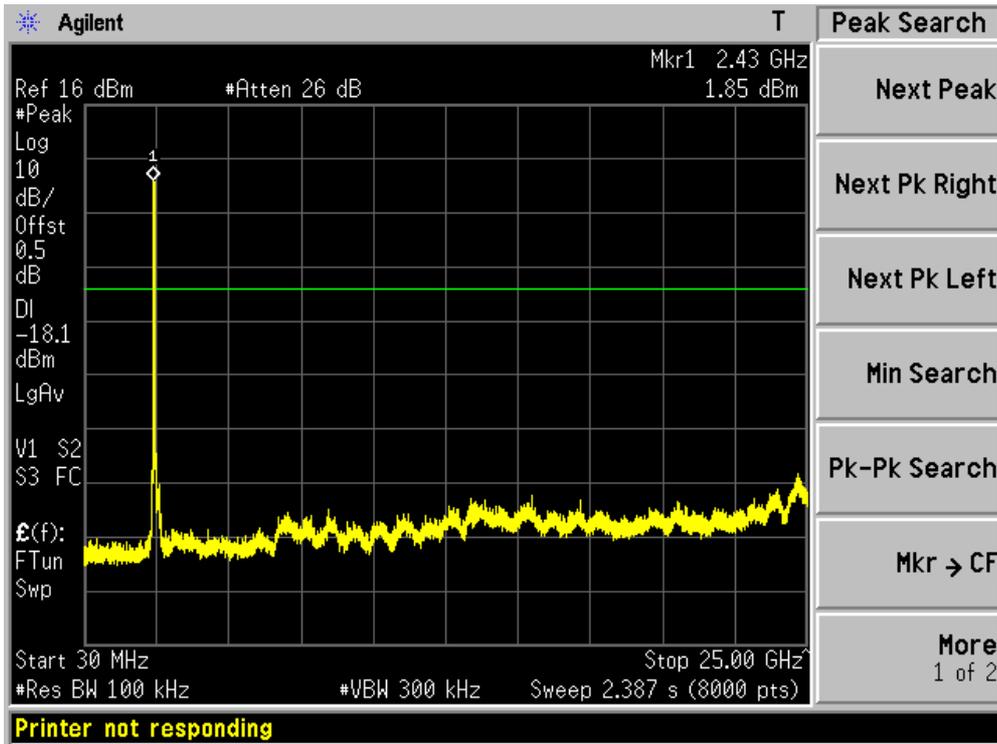


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

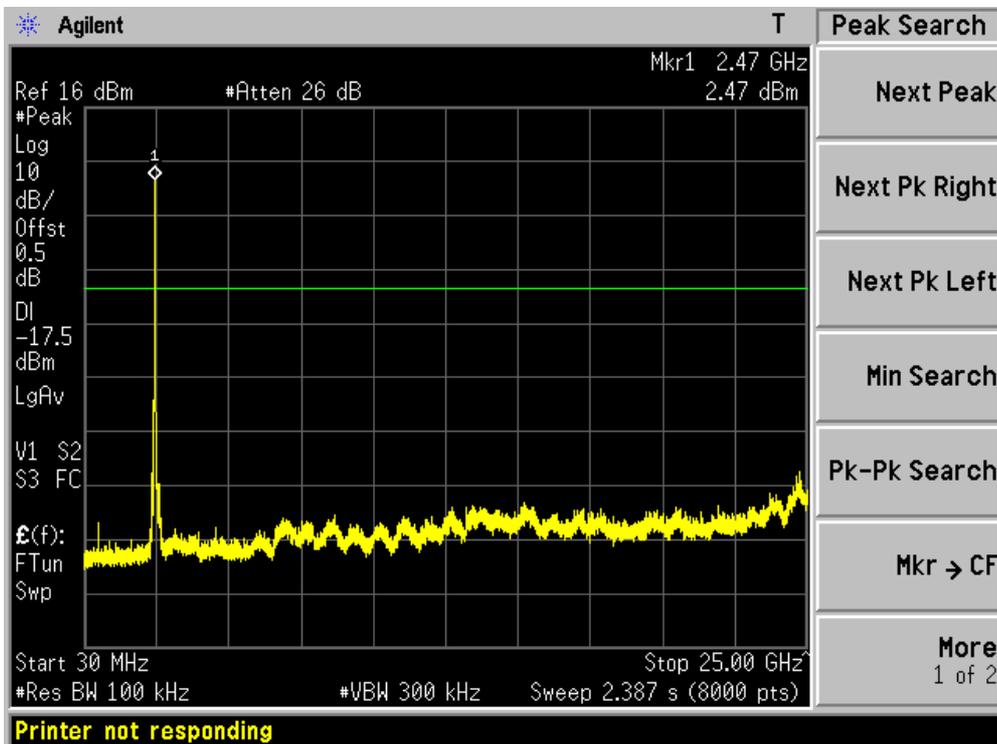
Channel 01 (2412MHz)



Channel 06 (2437MHz)

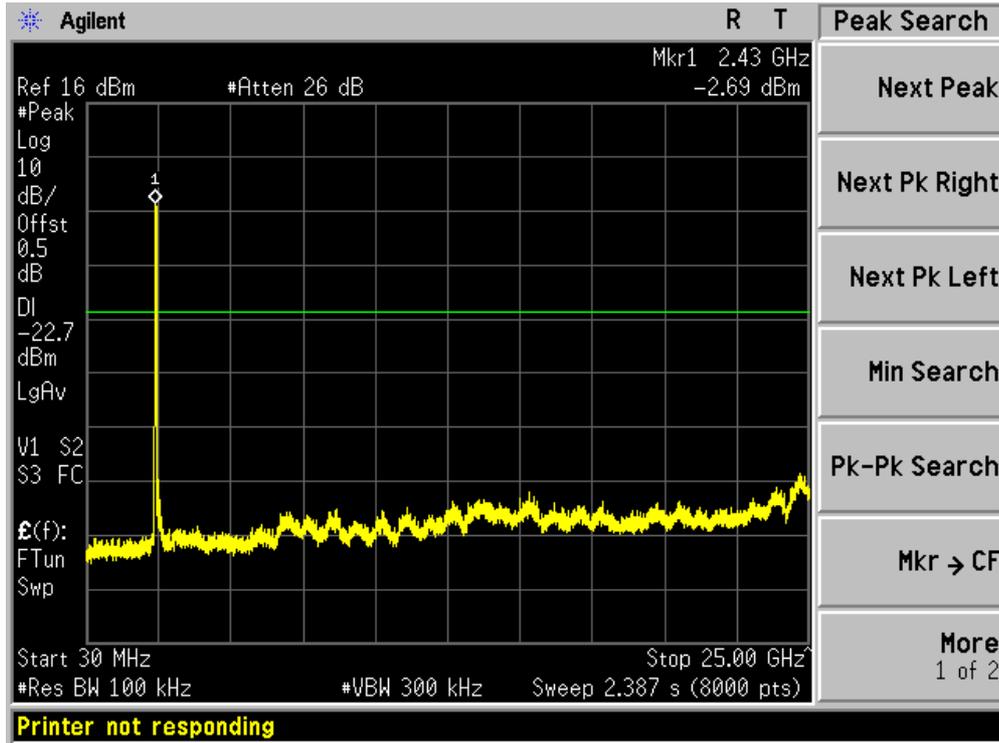


Channel 11 (2462MHz)

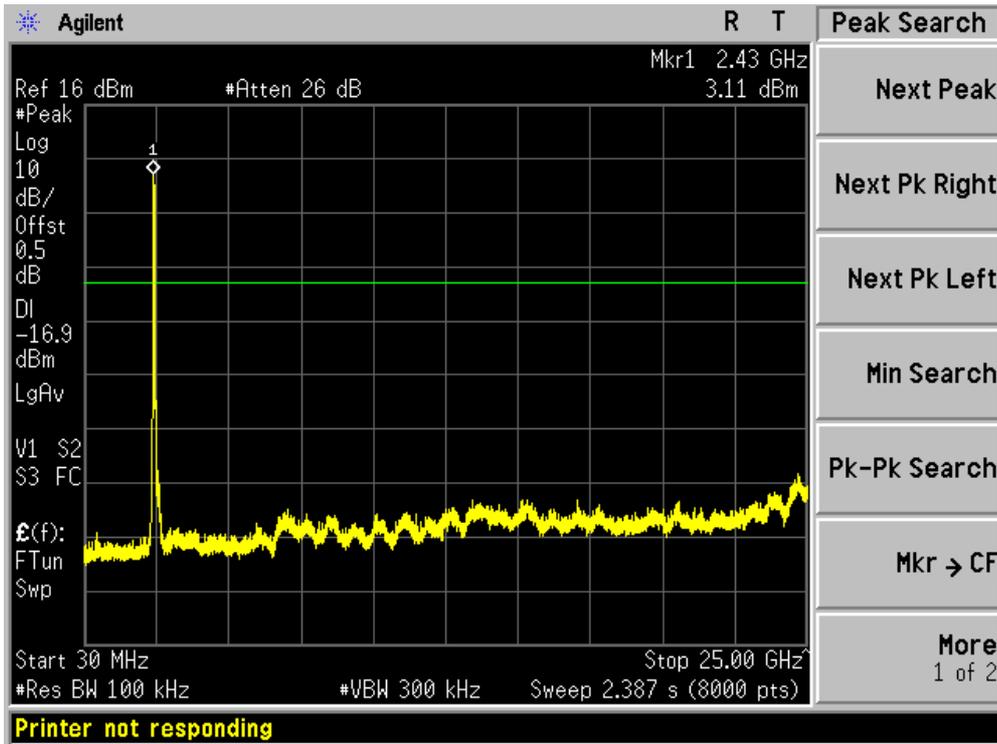


Product	:	Home Gateway
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 1)

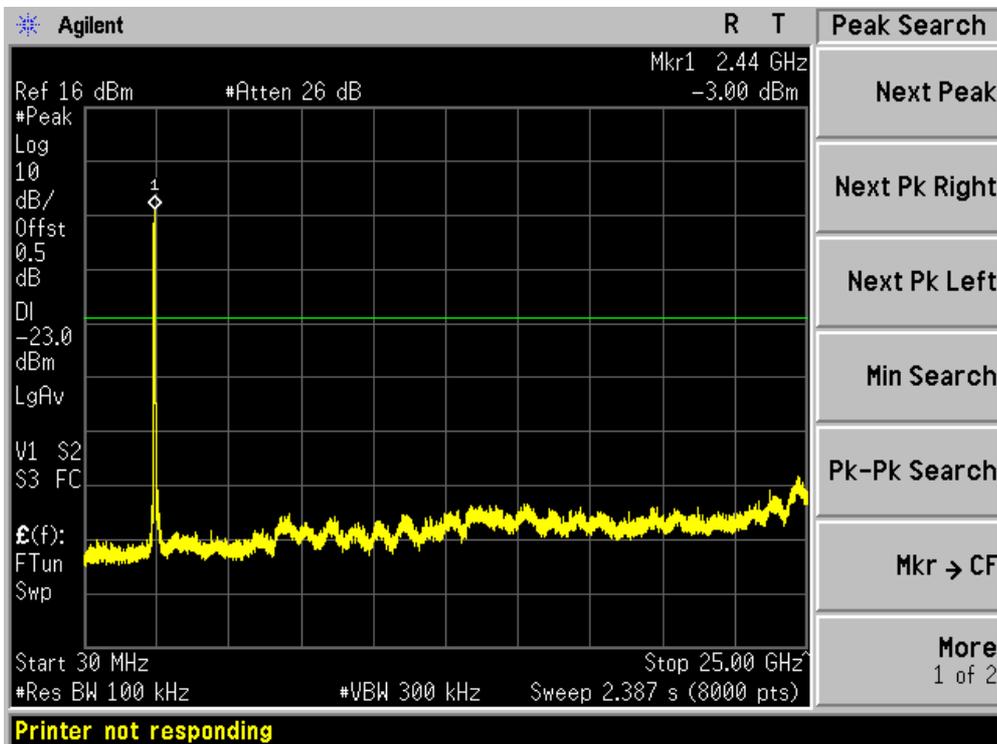
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2009/04/23
EMI Test Receiver	R&S	ESCI	100573	2009/04/23
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2009/05/05
Bilog Type Antenna	Schaffner	CBL6112B	2932	2009/02/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2009/06/11
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/31

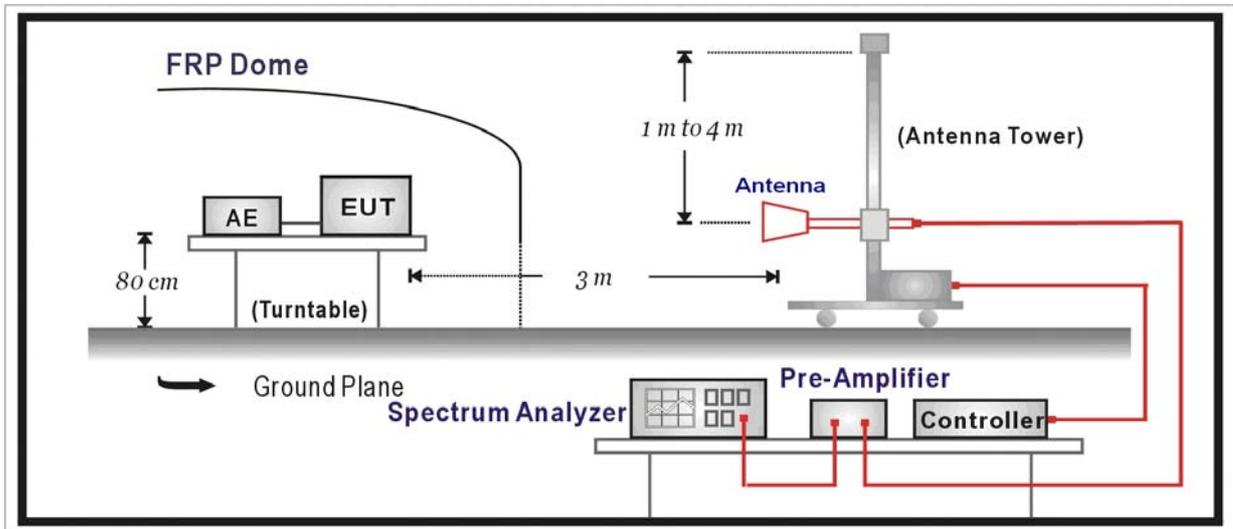
Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2009/05/05
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2009/06/11
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/31

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.

Note:

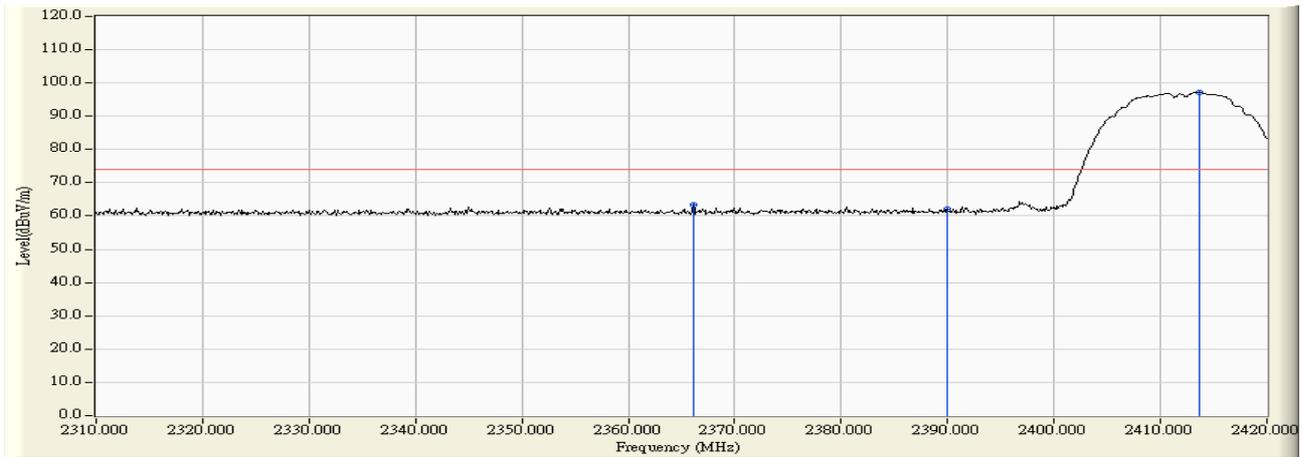
Peak detector set as follows, RBW = 1MHz, VBW = 3MHz, sweep time = 500ms;
 Average detector set as follows, RBW = 1MHz, VBW = 10Hz, sweep time = auto.

6.5. Uncertainty

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

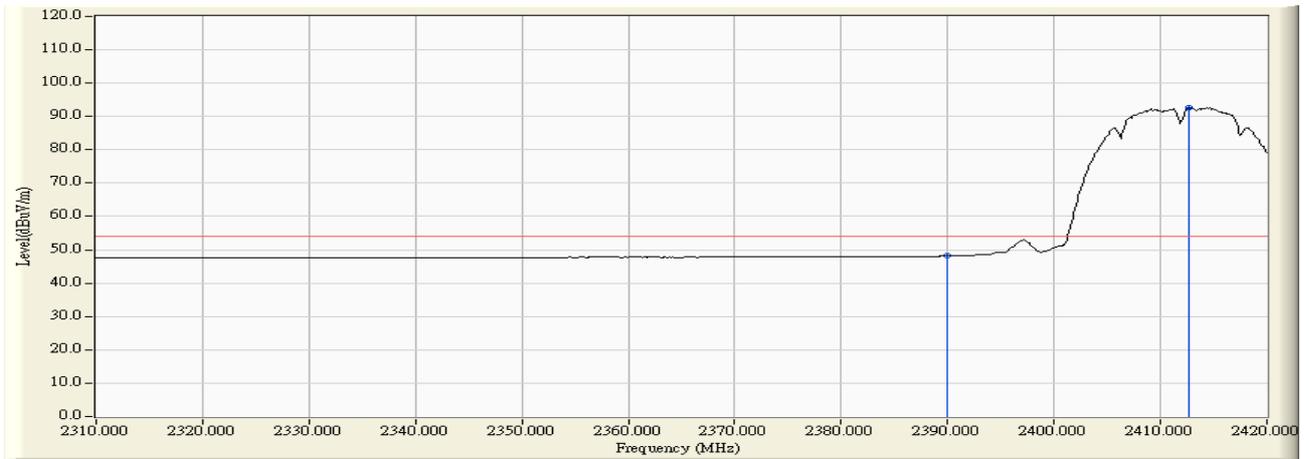
6.6. Test Result

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b (Chain 0)



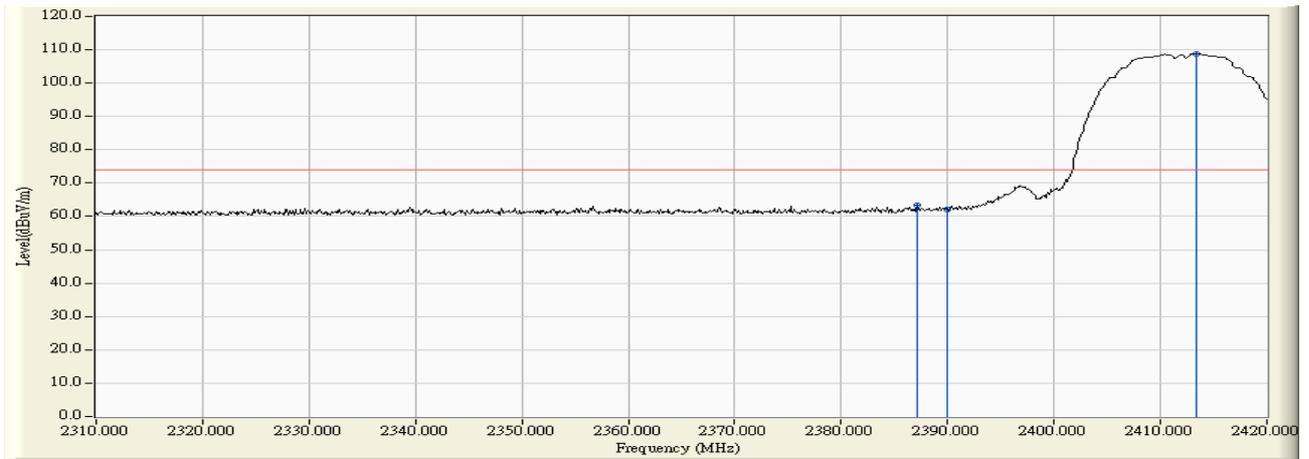
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2366.100	31.211	32.104	63.315	-10.655	73.970	PEAK
2		2390.000	31.184	30.781	61.965	-12.005	73.970	PEAK
3	*	2413.620	31.191	66.104	97.296	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b (Chain 0)



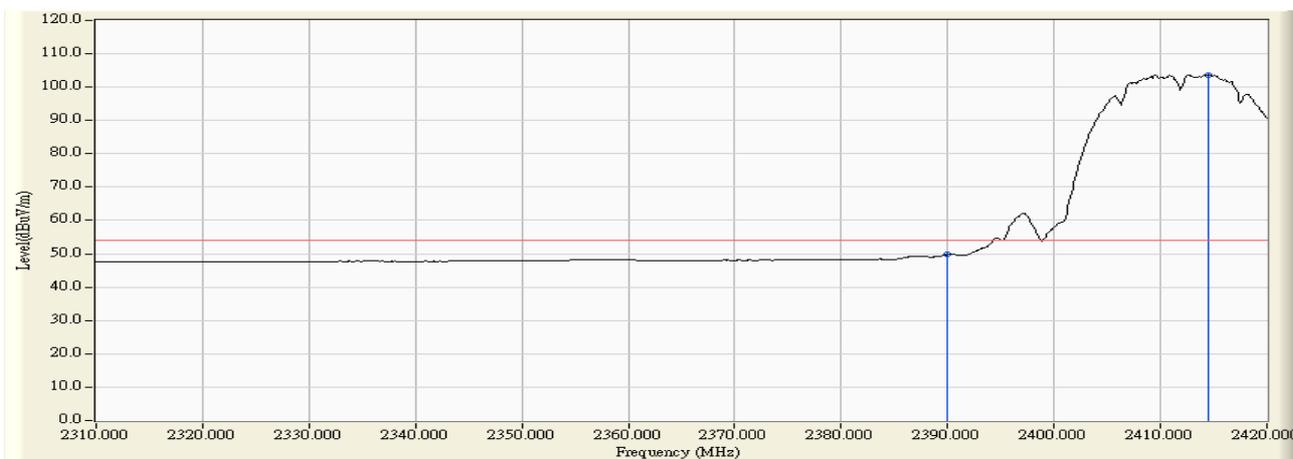
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.016	48.200	-5.770	53.970	AVERAGE
2	*	2412.630	31.191	61.432	92.623	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b (Chain 0)



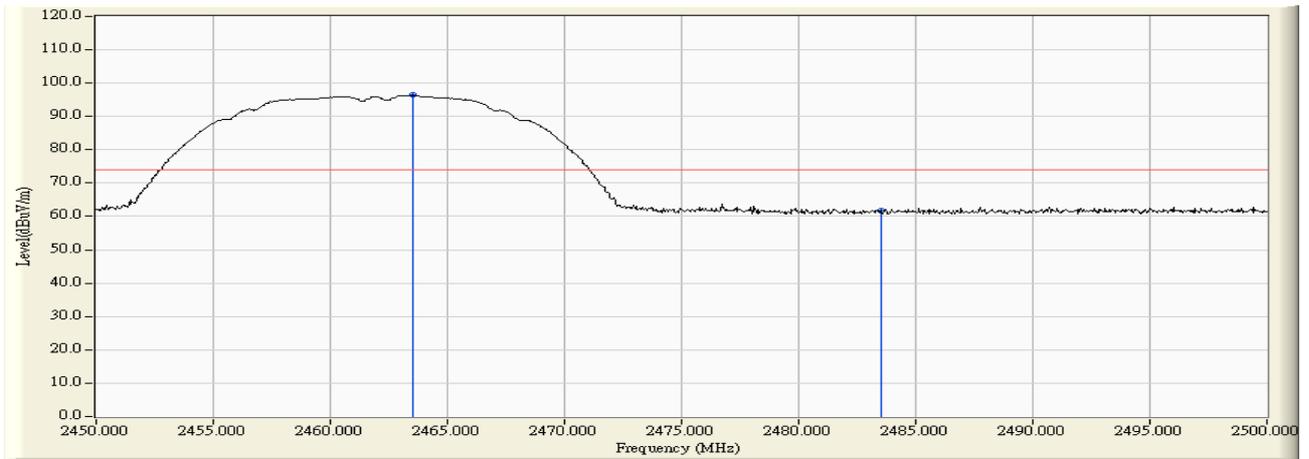
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2387.110	31.187	32.187	63.374	-10.596	73.970	PEAK
2		2390.000	31.184	30.946	62.130	-11.840	73.970	PEAK
3	*	2413.400	31.192	77.664	108.856	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b (Chain 0)



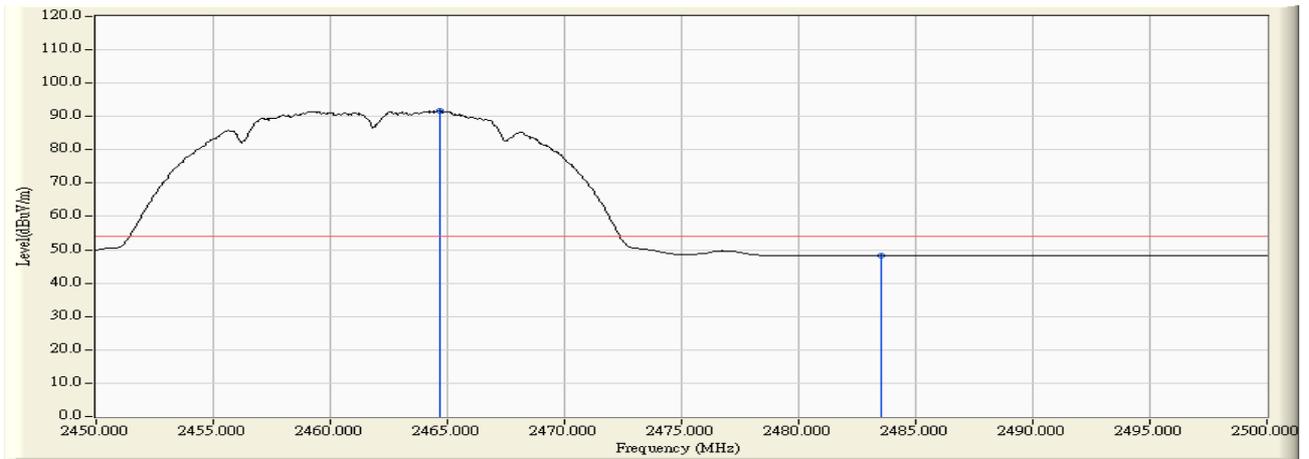
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.537	49.721	-4.249	53.970	AVERAGE
2	*	2414.500	31.193	72.543	103.735	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:37
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b (Chain 0)



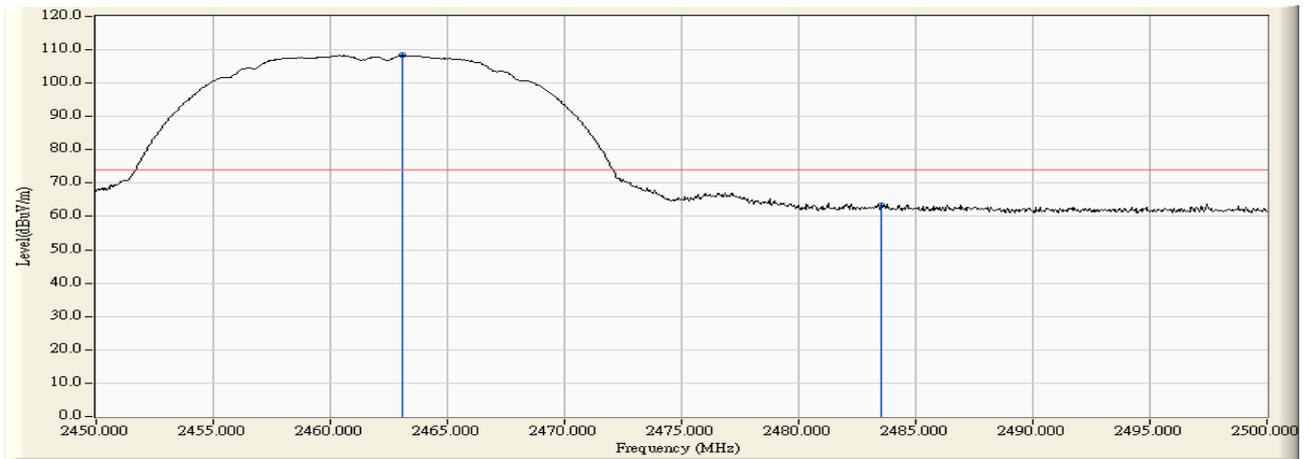
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	31.224	65.203	96.427	N/A	N/A	PEAK
2		2483.500	31.212	30.533	61.745	-12.225	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:37
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b (Chain 0)



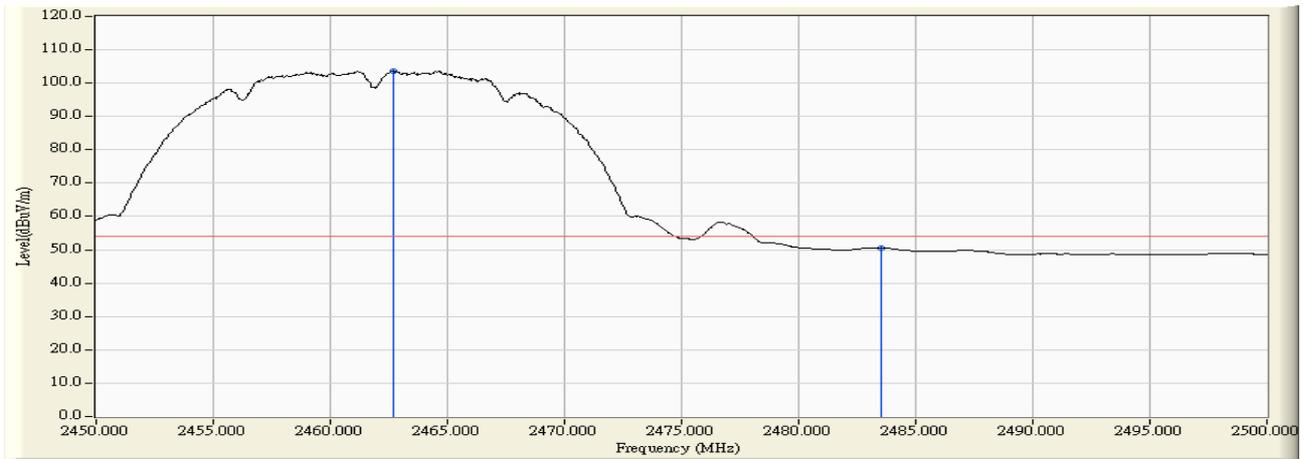
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.650	31.223	60.407	91.631	N/A	N/A	AVERAGE
2		2483.500	31.212	16.973	48.185	-5.785	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b (Chain 0)



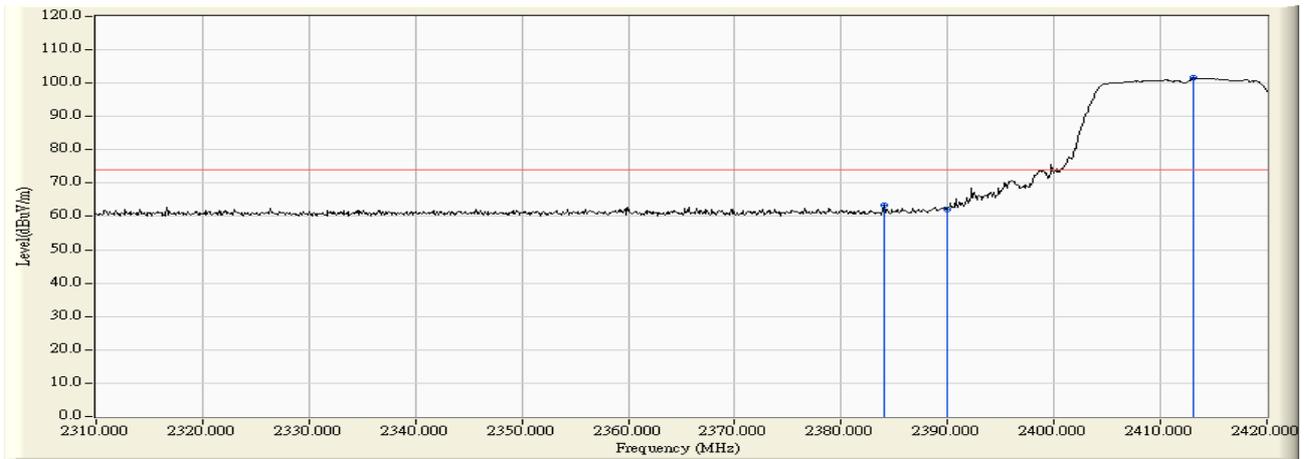
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.100	31.224	77.109	108.334	N/A	N/A	PEAK
2		2483.500	31.212	32.082	63.294	-10.676	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 20:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b (Chain 0)



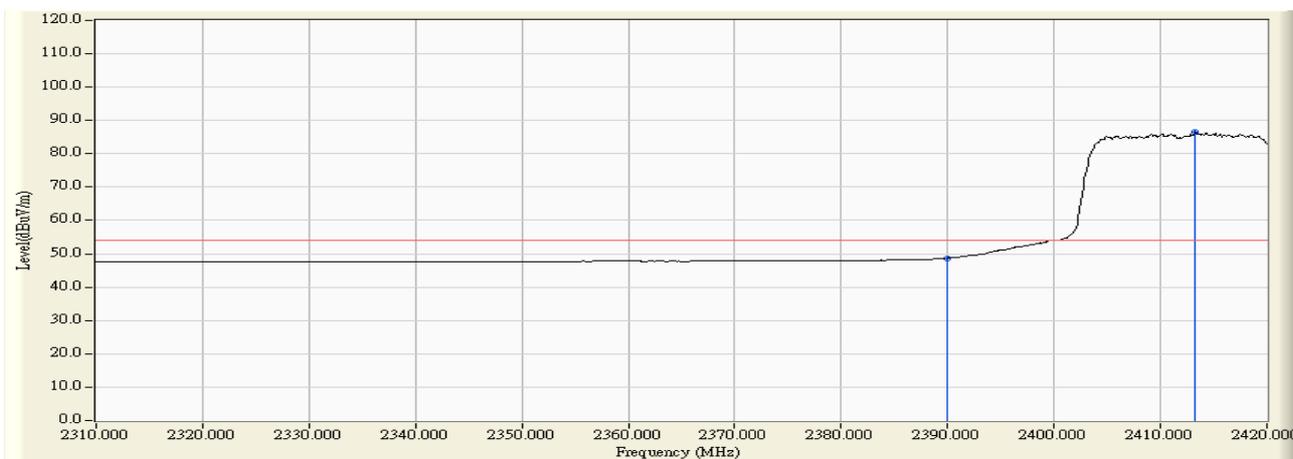
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.700	31.225	72.424	103.649	N/A	N/A	AVERAGE
2		2483.500	31.212	19.367	50.579	-3.391	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 21:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g (Chain 0)



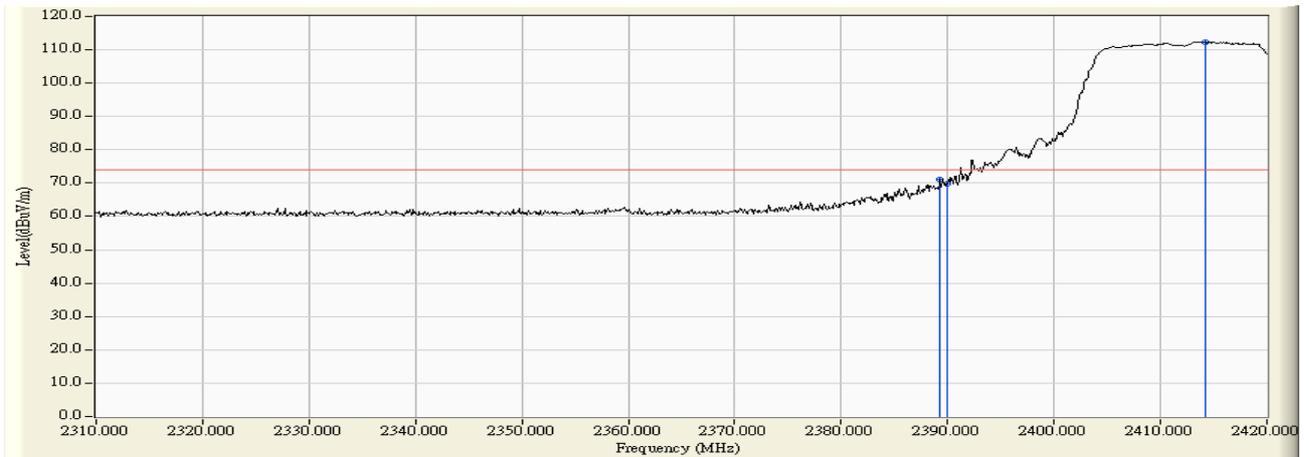
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2384.030	31.191	32.055	63.246	-10.724	73.970	PEAK
2		2390.000	31.184	31.054	62.238	-11.732	73.970	PEAK
3	*	2413.070	31.191	70.607	101.798	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 21:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g (Chain 0)



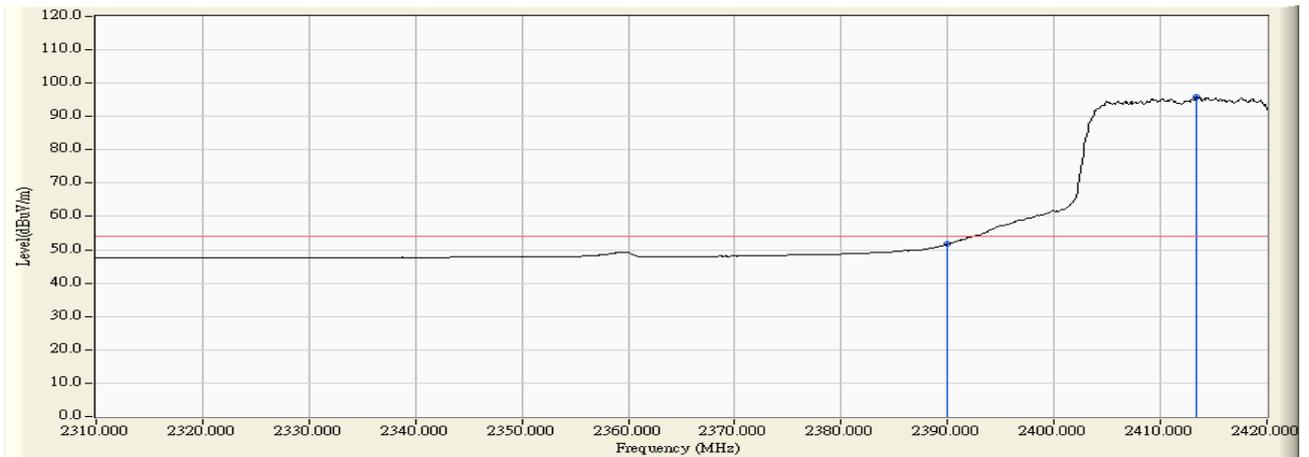
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.531	48.715	-5.255	53.970	AVERAGE
2	*	2413.290	31.192	55.296	86.487	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 21:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g (Chain 0)



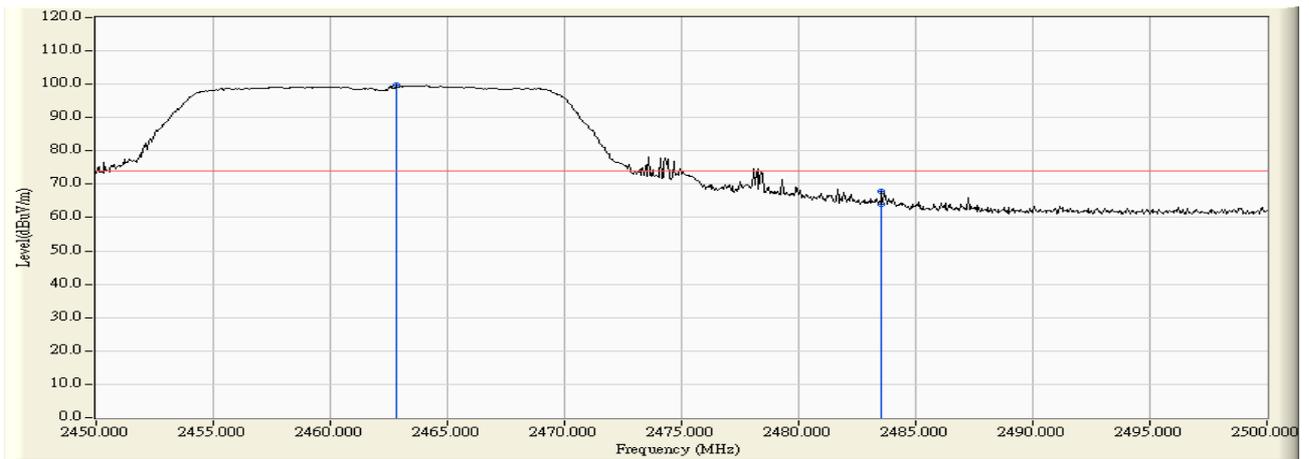
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.310	31.185	39.920	71.105	-2.865	73.970	PEAK
2		2390.000	31.184	38.679	69.863	-4.107	73.970	PEAK
3	*	2414.170	31.192	81.174	112.366	N/A	N/A	PEAK

Engineer: Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/17 - 21:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g (Chain 0)



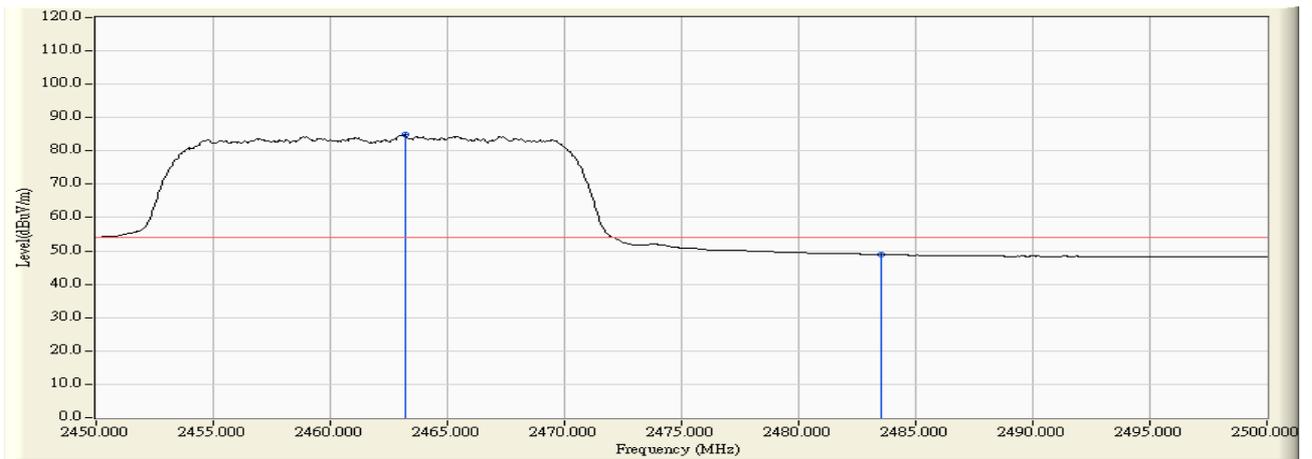
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	20.566	51.750	-2.220	53.970	AVERAGE
2	*	2413.400	31.192	64.803	95.995	N/A	N/A	AVERAGE

Engineer: Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g (Chain 0)



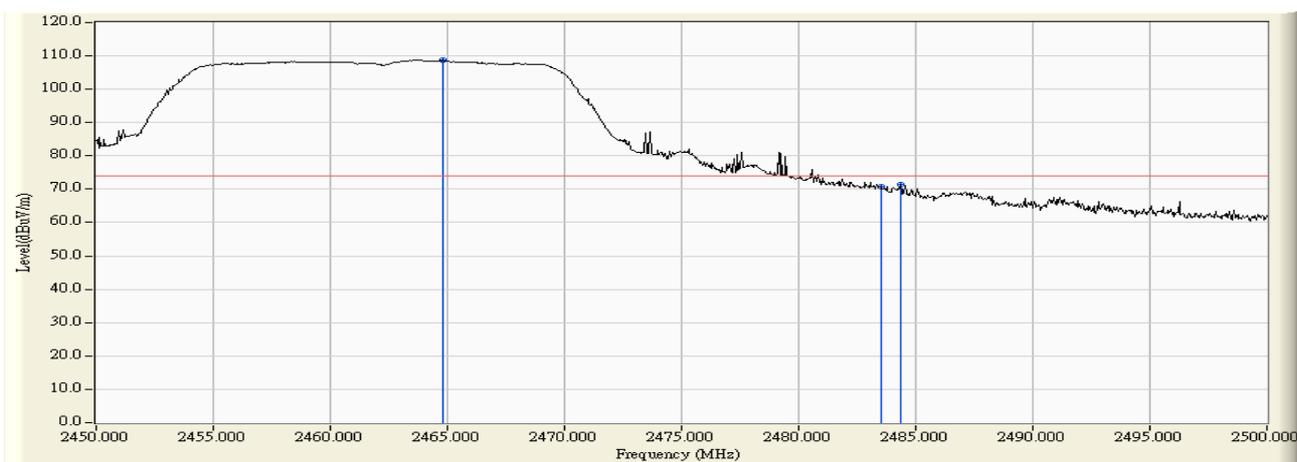
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.800	31.225	68.494	99.719	N/A	N/A	PEAK
2		2483.500	31.212	32.922	64.134	-9.836	73.970	PEAK
3		2483.550	31.212	36.815	68.027	-5.943	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:38
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g (Chain 0)



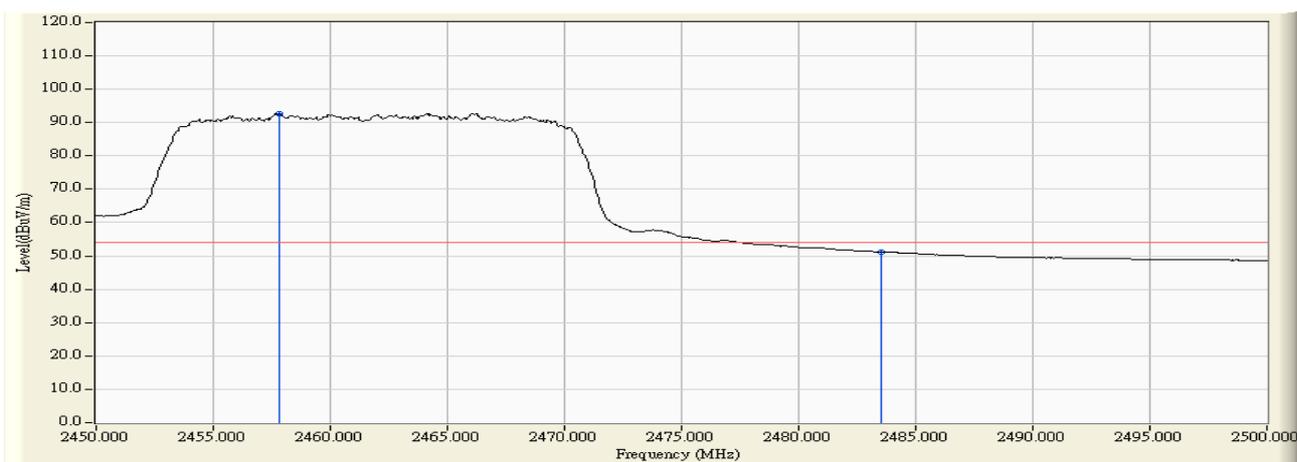
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.200	31.224	53.601	84.826	N/A	N/A	AVERAGE
2		2483.500	31.212	17.741	48.953	-5.017	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g (Chain 0)



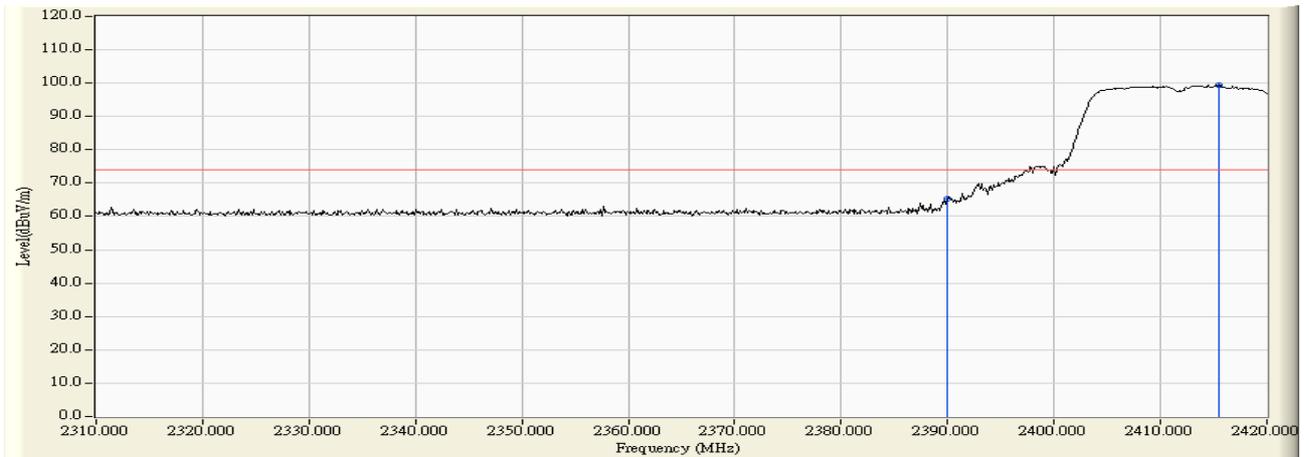
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.800	31.223	77.512	108.736	N/A	N/A	PEAK
2		2483.500	31.212	39.415	70.627	-3.343	73.970	PEAK
3		2484.350	31.212	40.079	71.290	-2.680	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g (Chain 0)



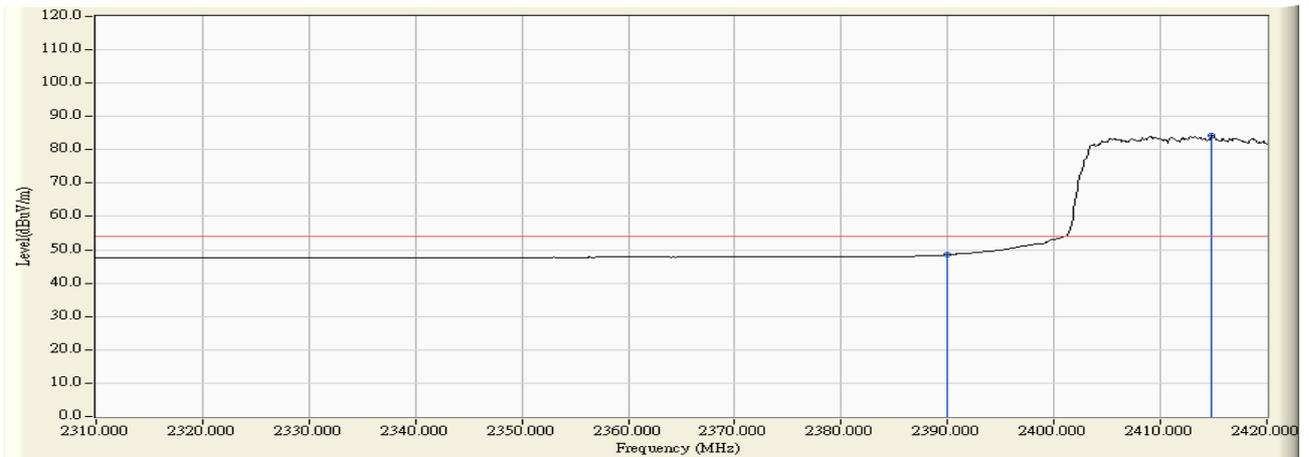
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.800	31.224	61.585	92.809	N/A	N/A	AVERAGE
2		2483.500	31.212	20.059	51.271	-2.699	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0)



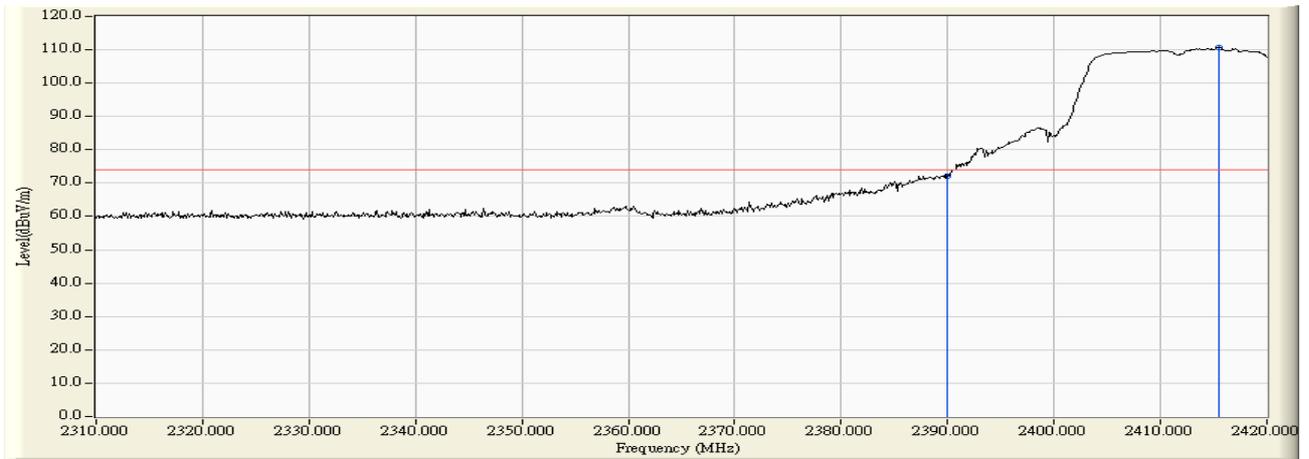
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	34.153	65.337	-8.633	73.970	PEAK
2	*	2415.490	31.193	68.245	99.438	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0)



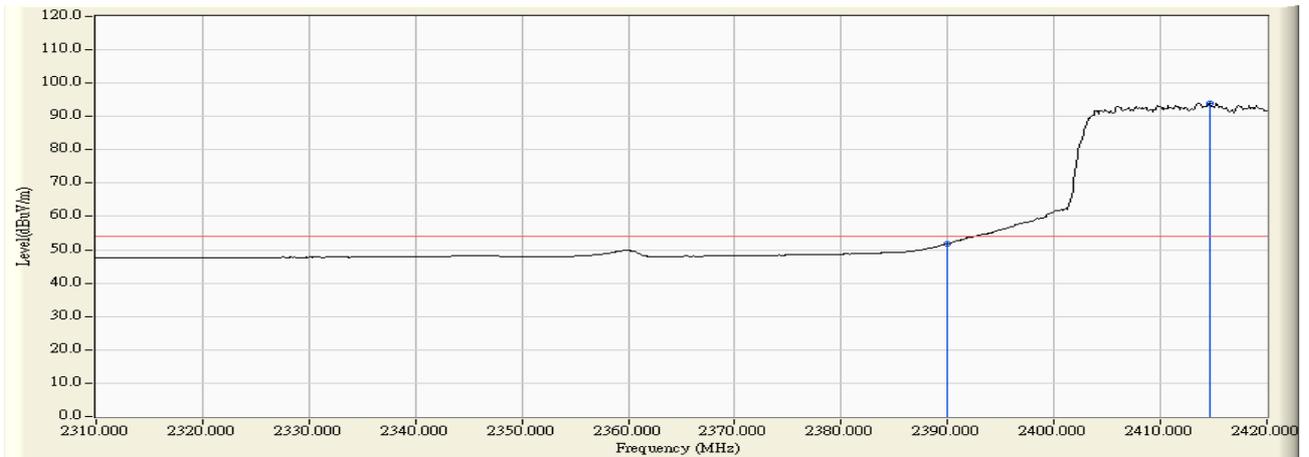
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.378	48.562	-5.408	53.970	AVERAGE
2	*	2414.830	31.193	53.011	84.204	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0)



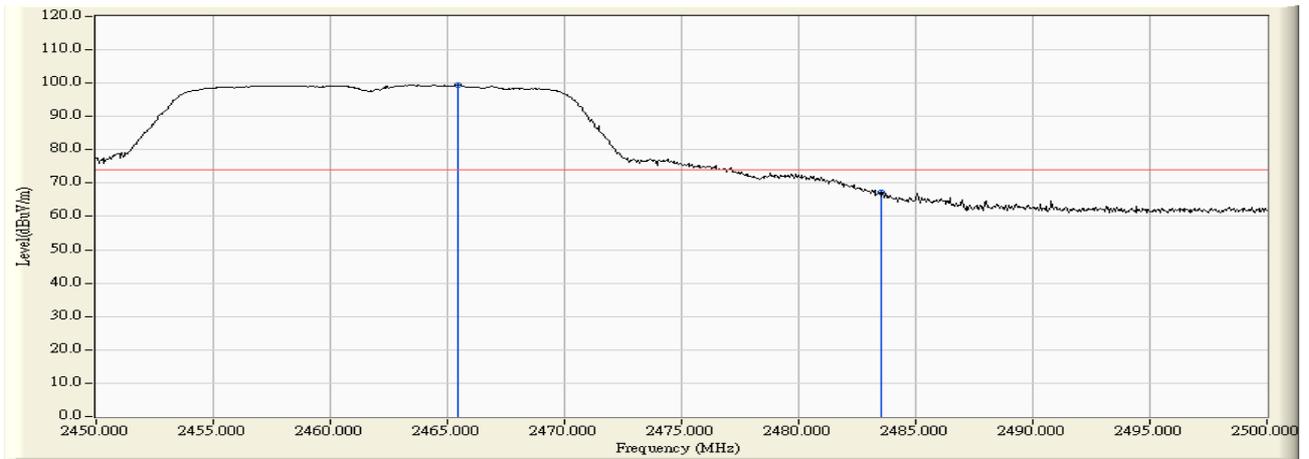
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	40.780	71.964	-2.006	73.970	PEAK
2	*	2415.490	31.193	79.390	110.583	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0)



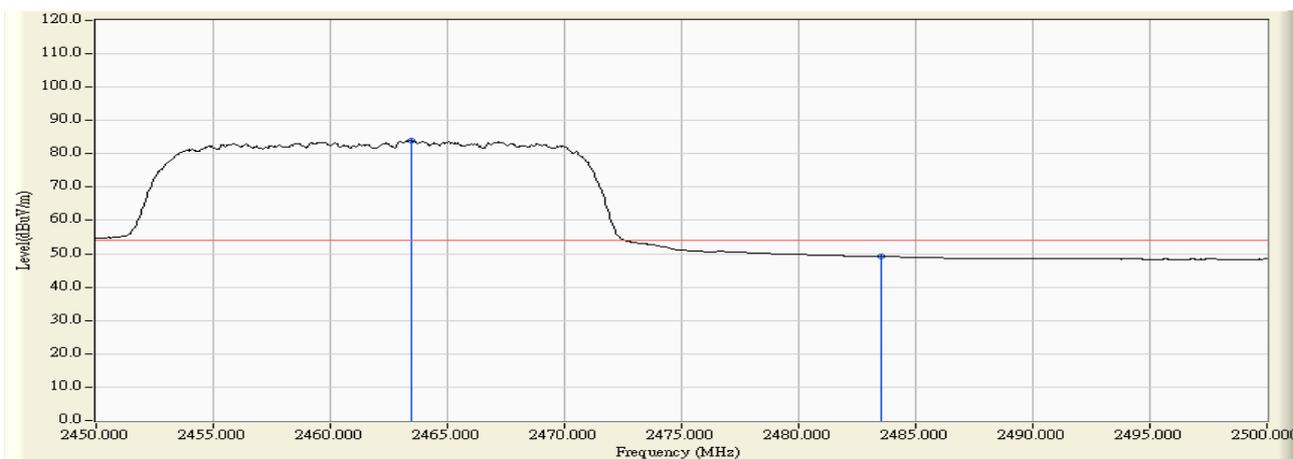
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	20.643	51.827	-2.143	53.970	AVERAGE
2	*	2414.610	31.193	62.790	93.983	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0)



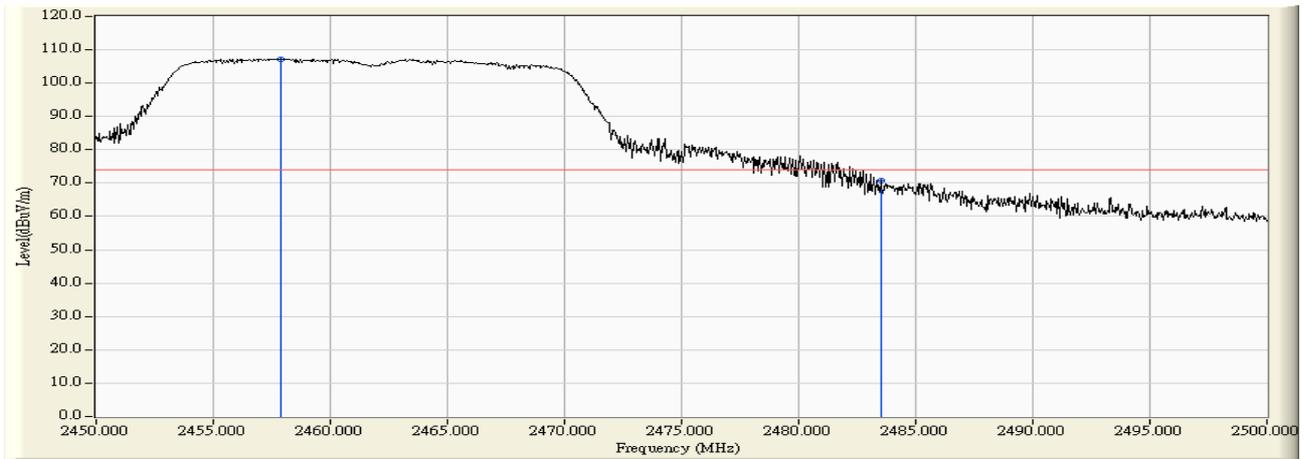
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.450	31.223	68.230	99.453	N/A	N/A	PEAK
2		2483.500	31.212	35.879	67.091	-6.879	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0)



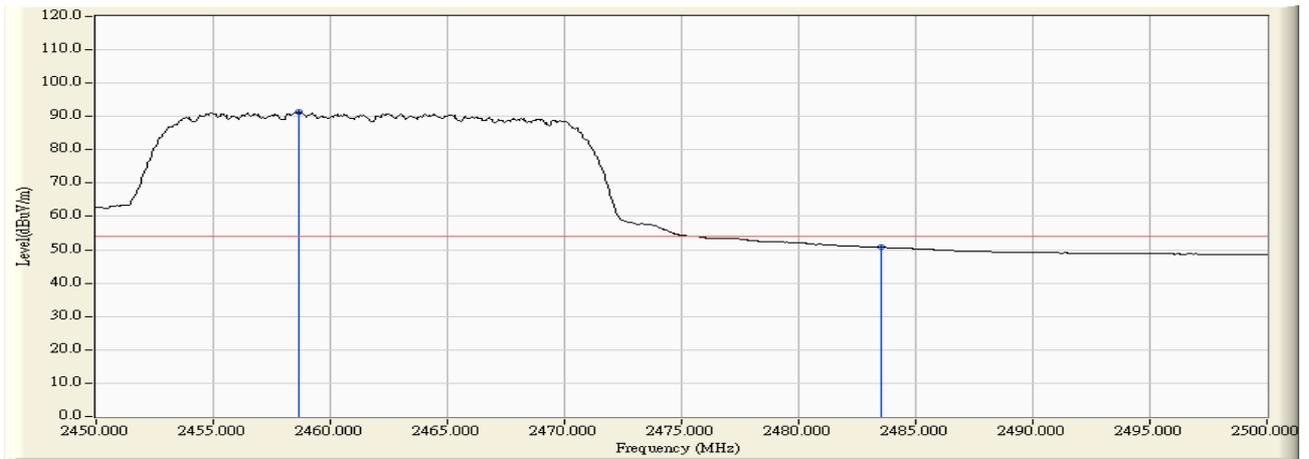
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.450	31.224	52.778	84.002	N/A	N/A	AVERAGE
2		2483.500	31.212	17.906	49.118	-4.852	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0)



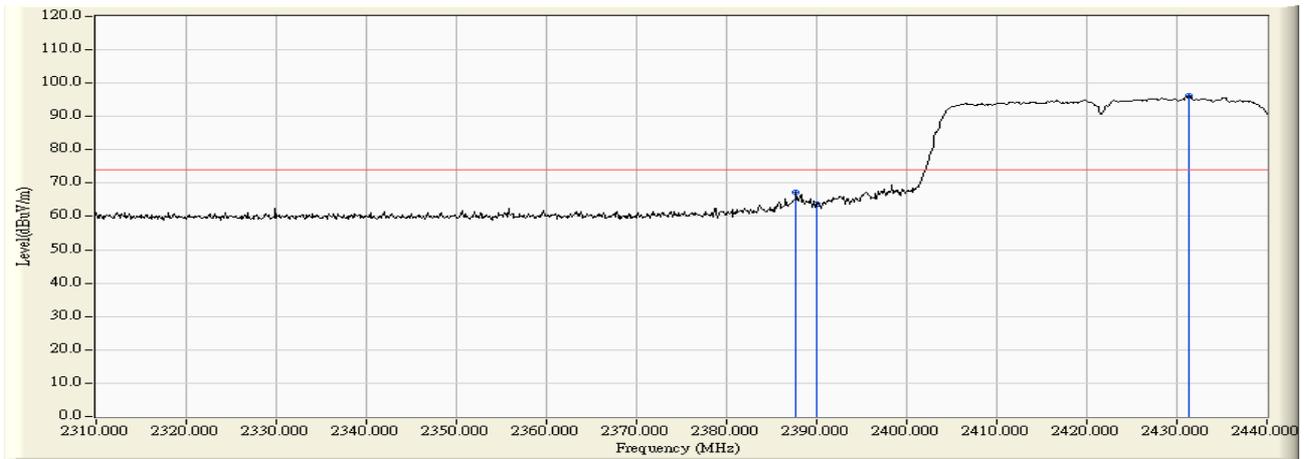
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.900	31.224	76.001	107.225	N/A	N/A	PEAK
2		2483.500	31.212	39.594	70.806	-3.164	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 09:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0)



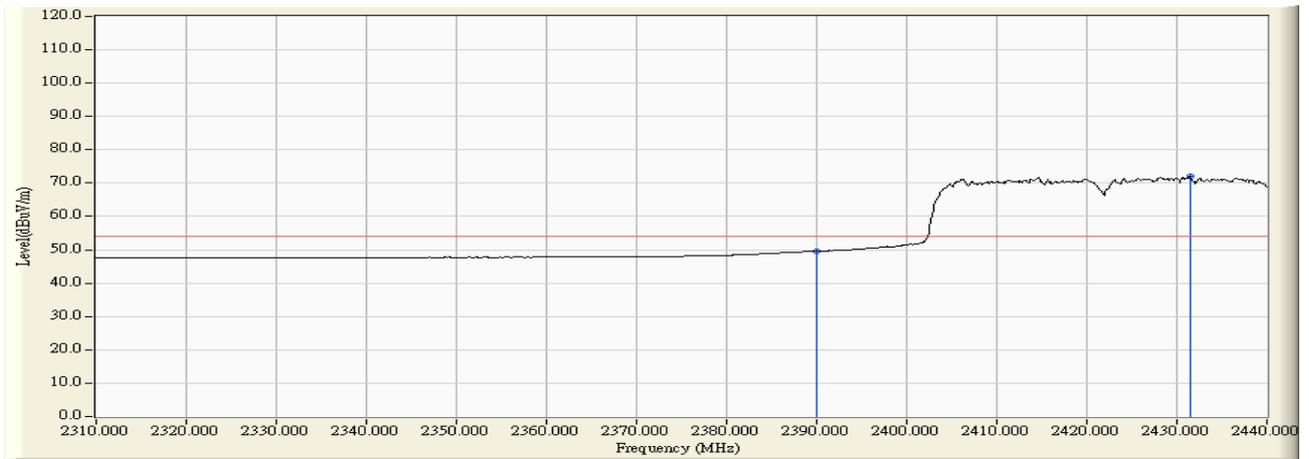
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.650	31.224	60.005	91.229	N/A	N/A	AVERAGE
2		2483.500	31.212	19.537	50.749	-3.221	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0)



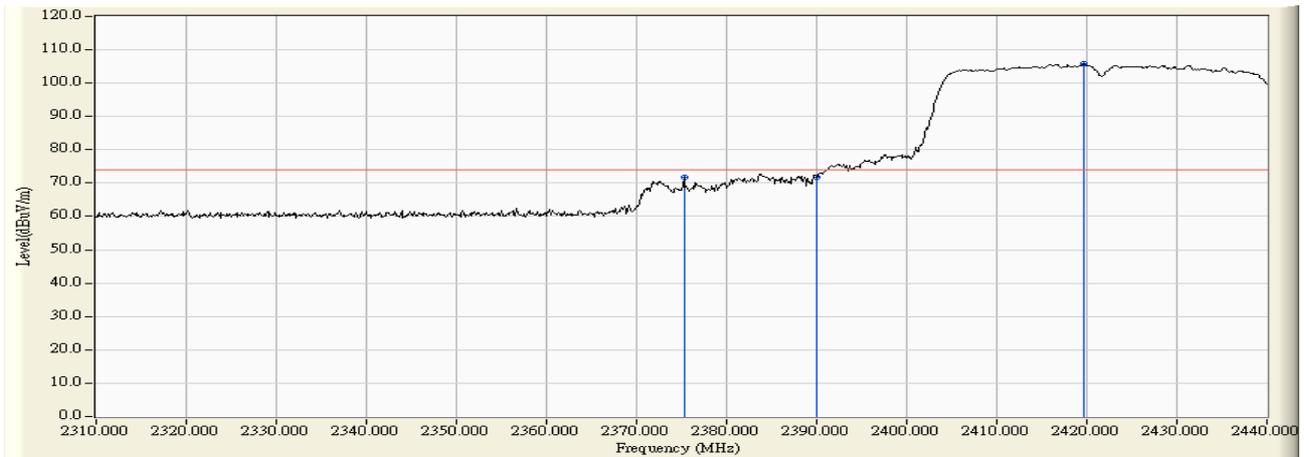
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2387.740	31.187	36.050	67.237	-6.733	73.970	PEAK
2		2390.000	31.184	32.436	63.620	-10.350	73.970	PEAK
3	*	2431.290	31.207	64.992	96.199	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0)



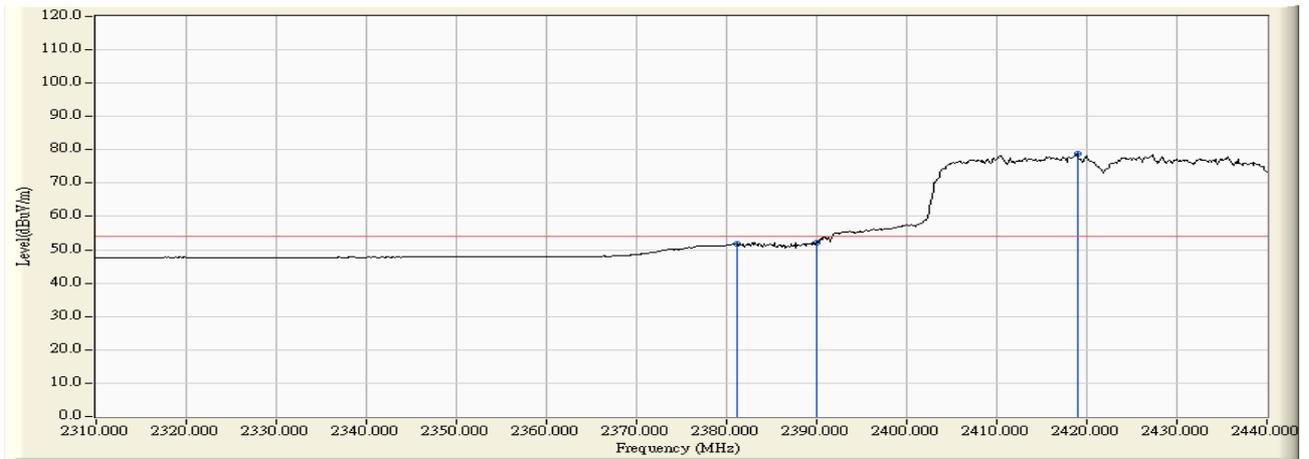
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	18.321	49.505	-4.465	53.970	AVERAGE
2	*	2431.550	31.207	40.738	71.945	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0)



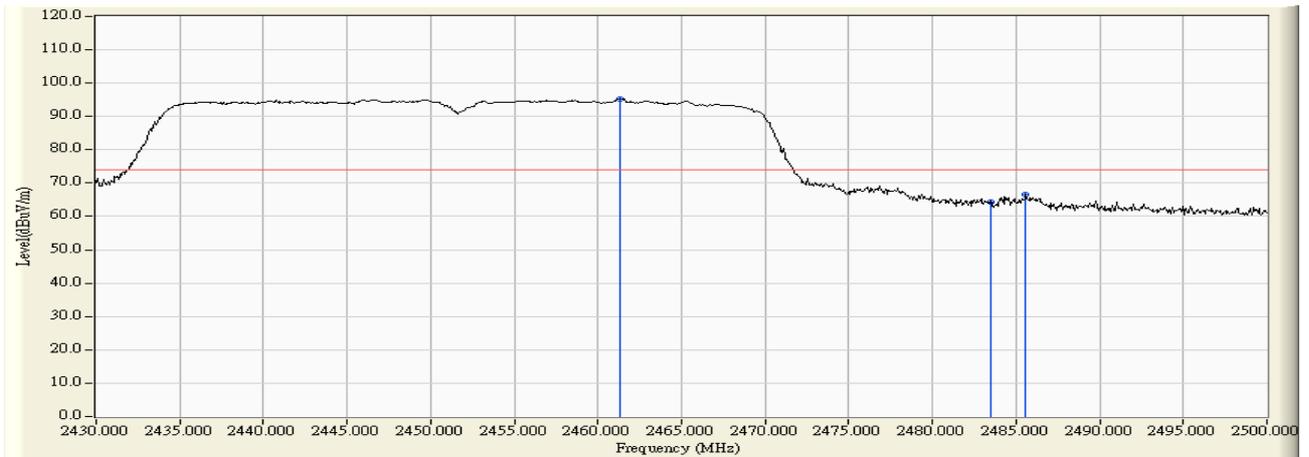
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2375.260	31.201	40.402	71.603	-2.367	73.970	PEAK
2		2390.000	31.184	40.634	71.818	-2.152	73.970	PEAK
3	*	2419.720	31.197	74.498	105.695	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:14
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0)



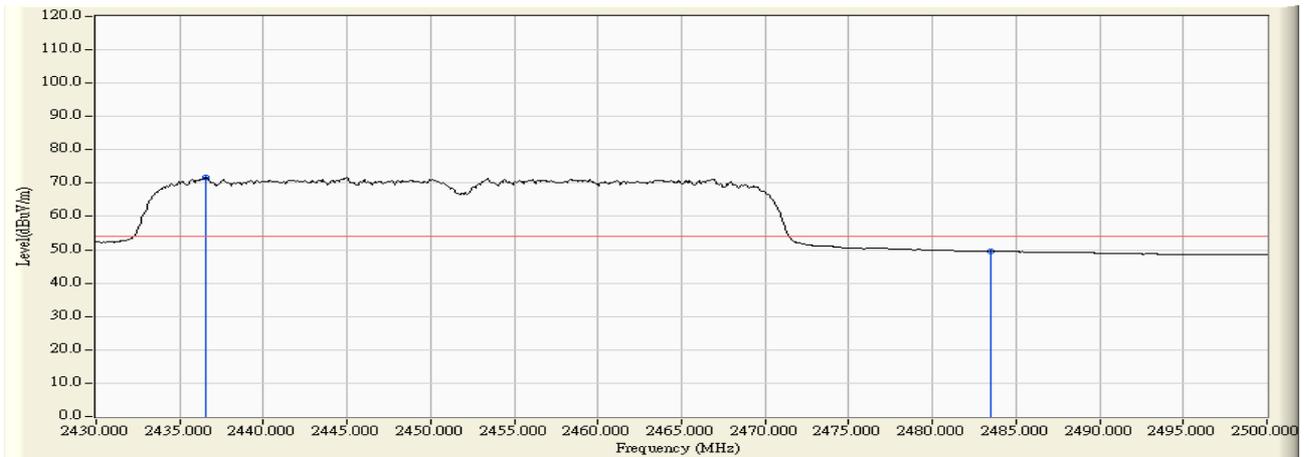
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2381.240	31.195	20.659	51.853	-2.117	53.970	AVERAGE
2		2390.000	31.184	20.989	52.173	-1.797	53.970	AVERAGE
3	*	2418.940	31.196	47.675	78.871	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0)



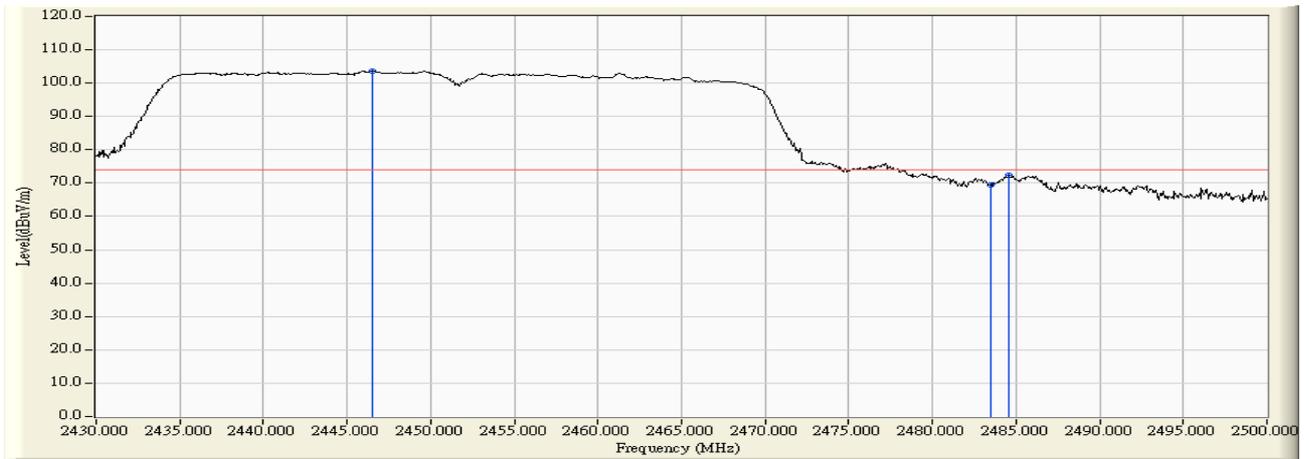
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.360	31.225	64.127	95.352	N/A	N/A	PEAK
2		2483.500	31.212	33.094	64.306	-9.664	73.970	PEAK
3		2485.580	31.211	35.338	66.549	-7.421	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0)



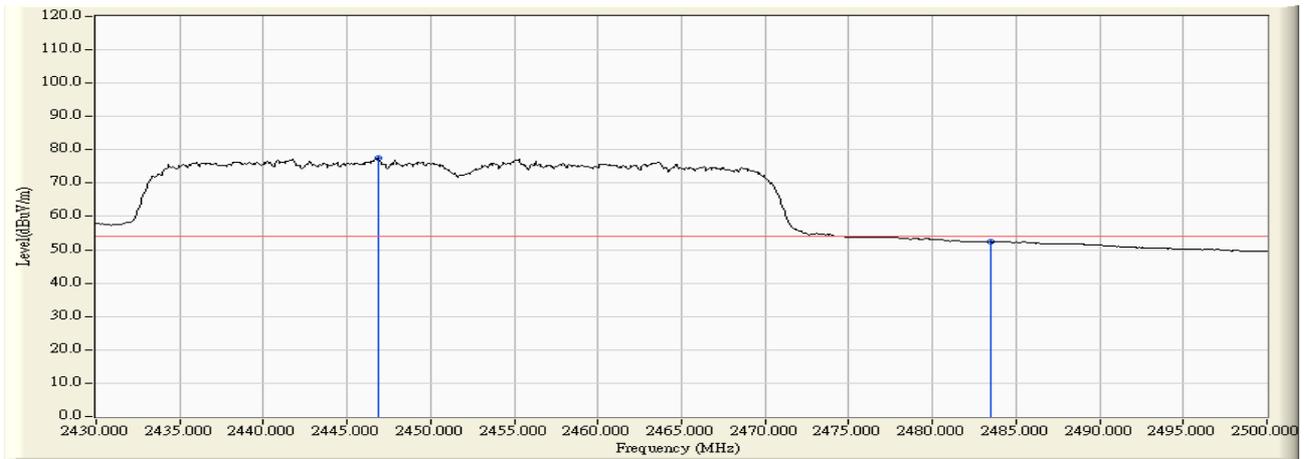
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2436.580	31.211	40.448	71.659	N/A	N/A	AVERAGE
2		2483.500	31.212	18.289	49.501	-4.469	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0)



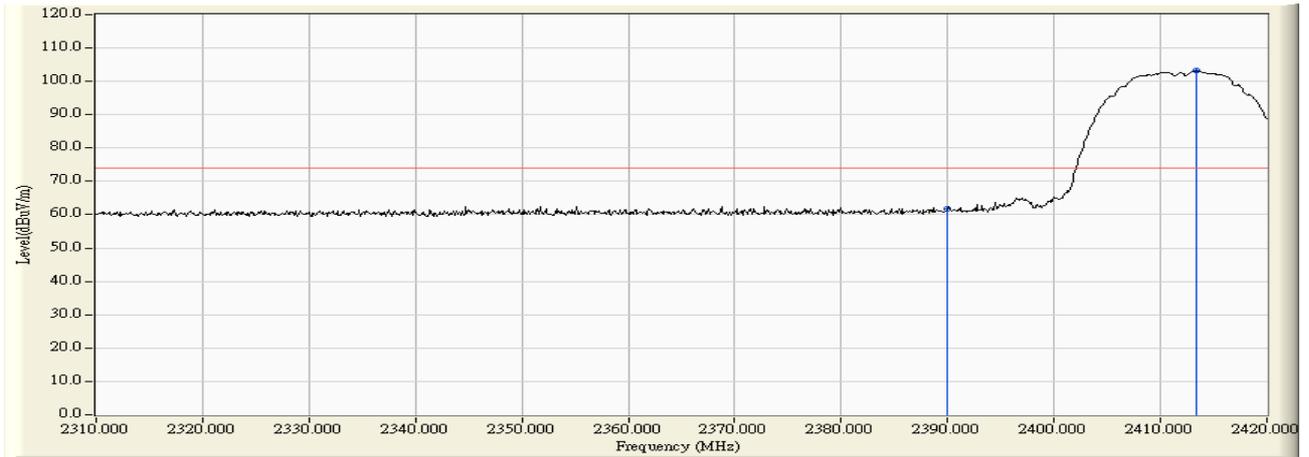
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.520	31.219	72.503	103.722	N/A	N/A	PEAK
2		2483.500	31.212	38.248	69.460	-4.510	73.970	PEAK
3		2484.600	31.212	41.323	72.534	-1.436	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0)



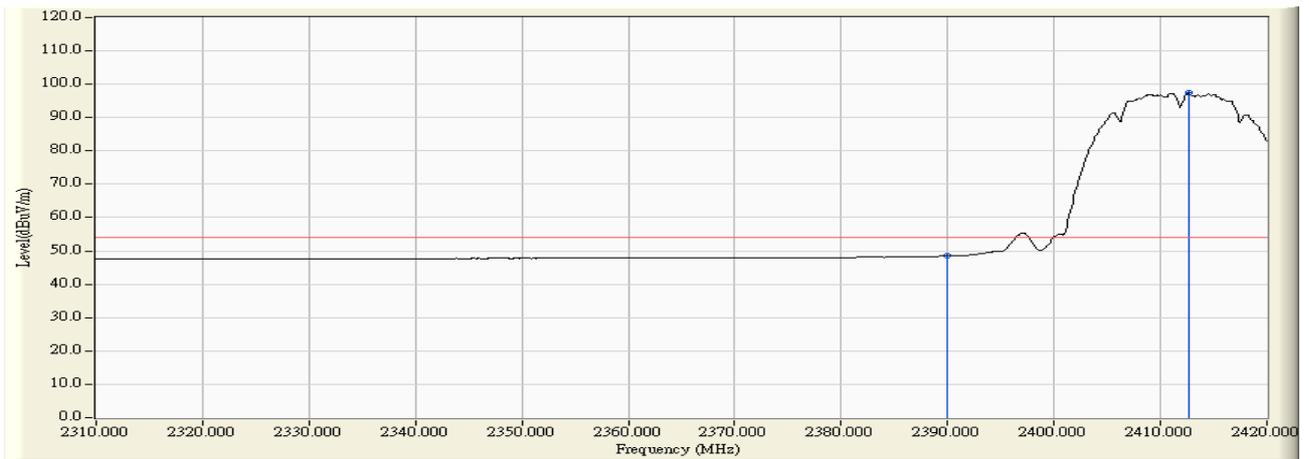
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.870	31.219	46.195	77.414	N/A	N/A	AVERAGE
2		2483.500	31.212	21.115	52.327	-1.643	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:27
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2412MHz by 802.11b(Chain 1)



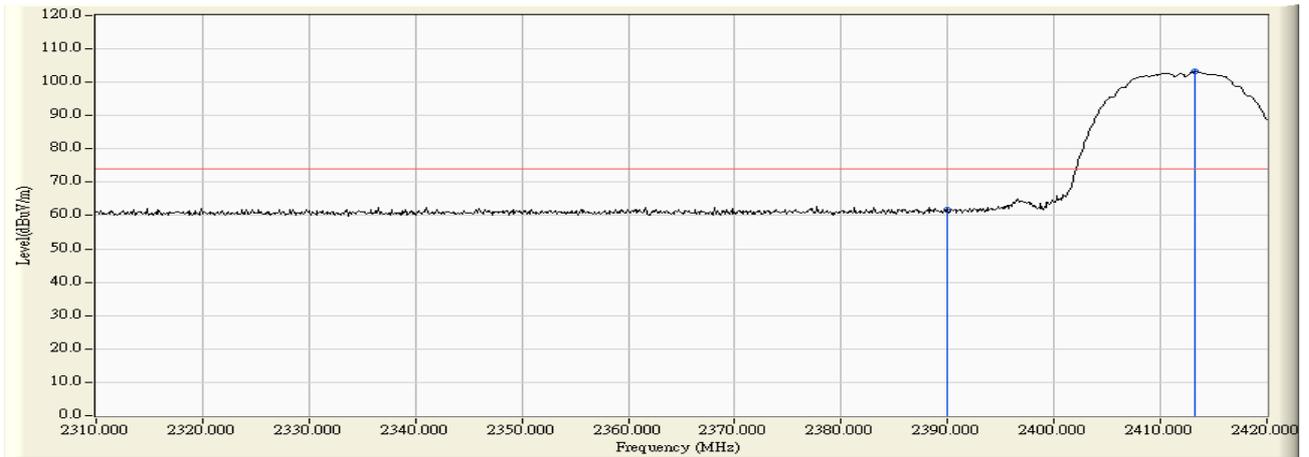
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	30.663	61.847	-12.123	73.970	PEAK
2	*	2413.400	31.192	71.938	103.130	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2412MHz by 802.11b(Chain 1)



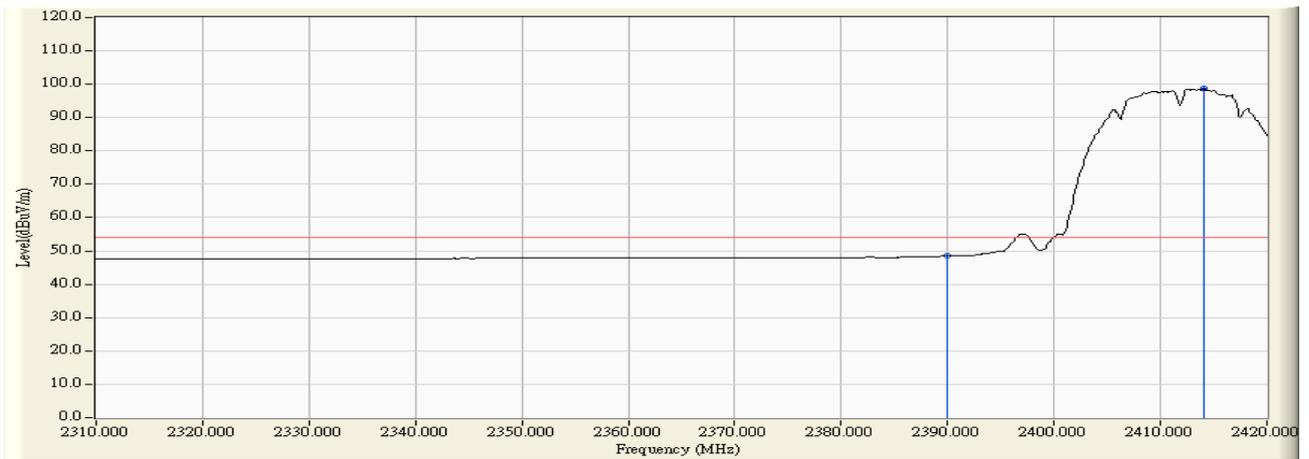
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.527	48.711	-5.259	53.970	AVERAGE
2	*	2412.630	31.191	66.142	97.333	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2412MHz by 802.11b(Chain 1)



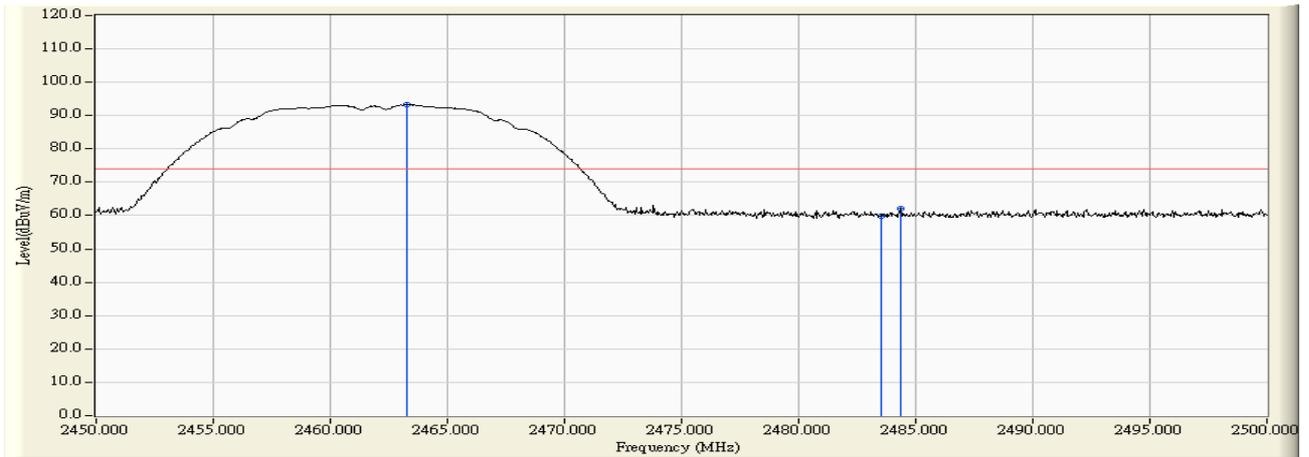
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	30.493	61.677	-12.293	73.970	PEAK
2	*	2413.290	31.192	71.983	103.174	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:26
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2412MHz by 802.11b(Chain 1)



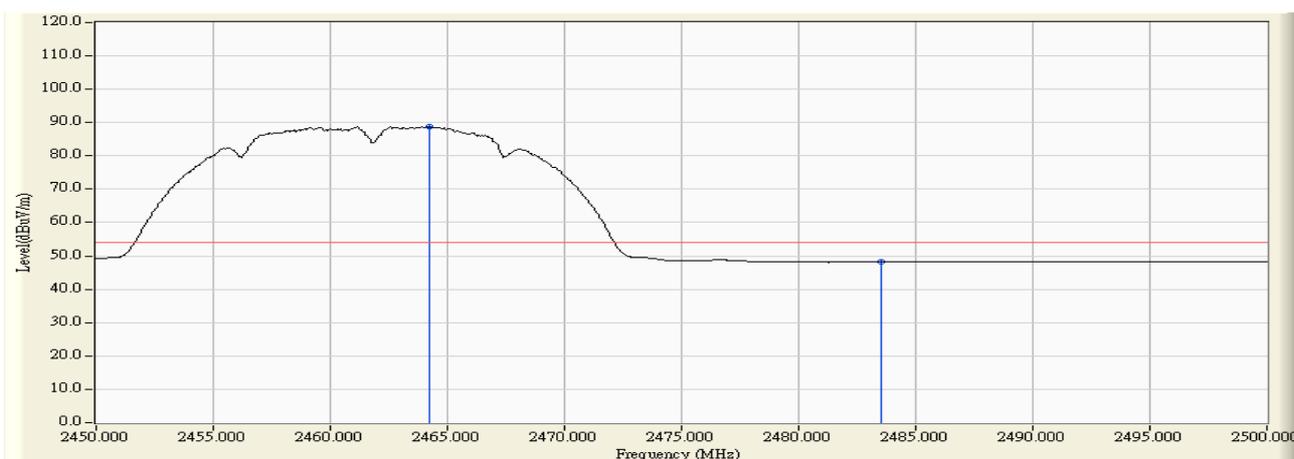
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.378	48.562	-5.408	53.970	AVERAGE
2	*	2414.060	31.192	67.522	98.714	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:31
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2462MHz by 802.11b(Chain 1)



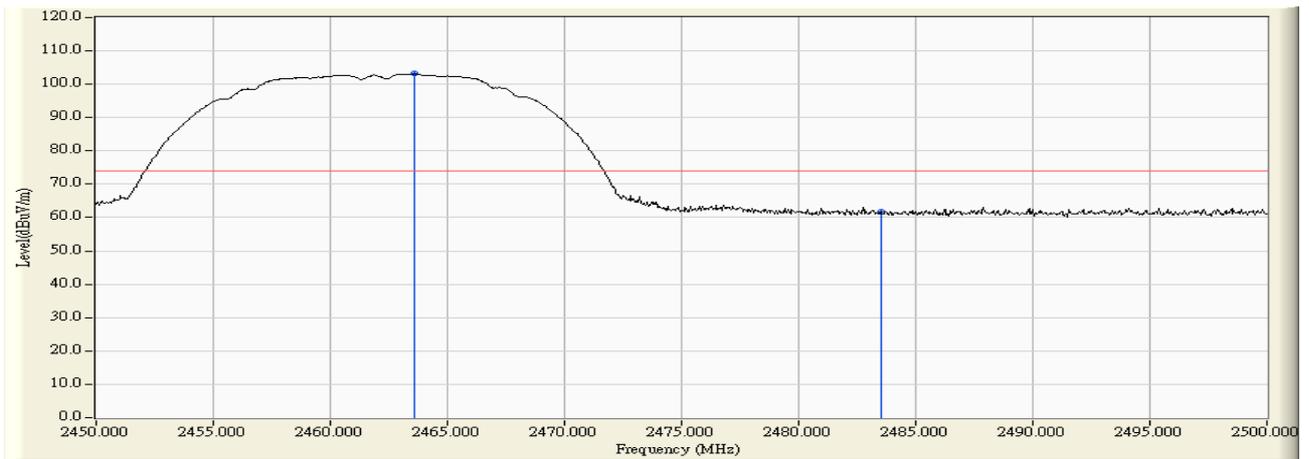
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.300	31.224	62.118	93.342	N/A	N/A	PEAK
2		2483.500	31.212	28.750	59.962	-14.008	73.970	PEAK
3		2484.350	31.212	30.928	62.139	-11.831	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2462MHz by 802.11b(Chain 1)



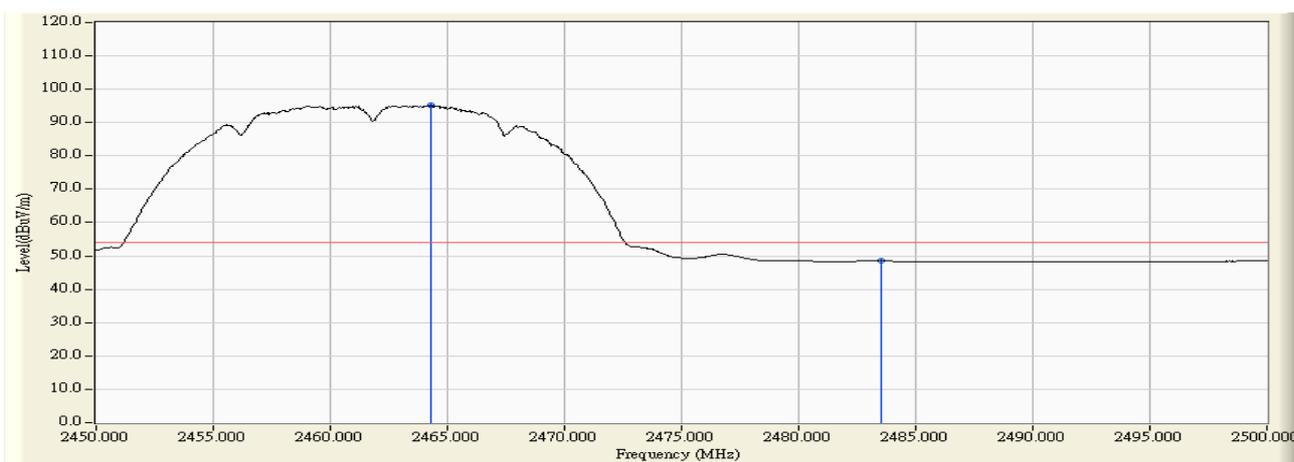
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.250	31.224	57.454	88.678	N/A	N/A	AVERAGE
2		2483.500	31.212	17.045	48.257	-5.713	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2462MHz by 802.11b(Chain 1)



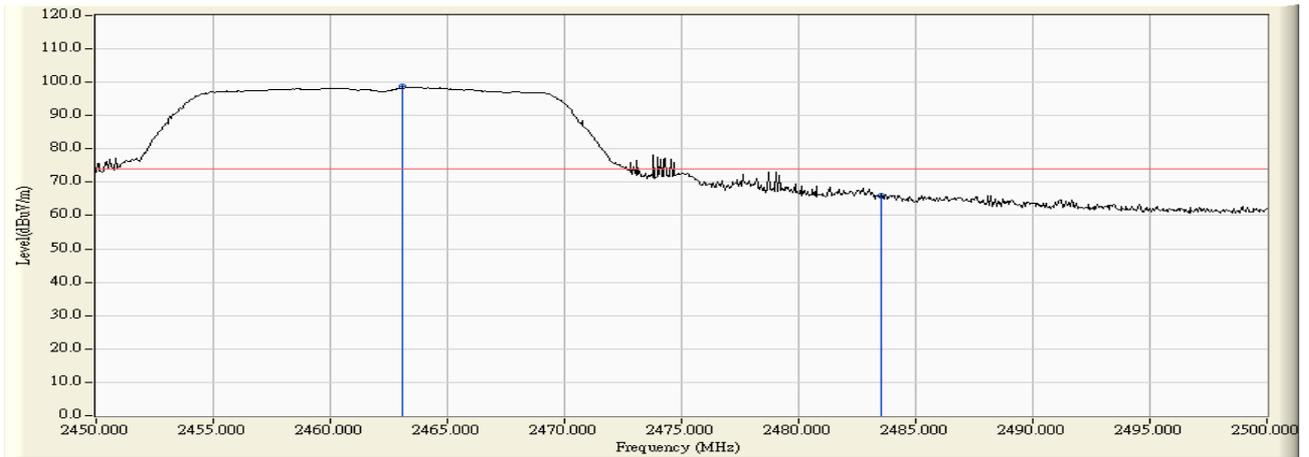
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.600	31.224	71.922	103.146	N/A	N/A	PEAK
2		2483.500	31.212	30.516	61.728	-12.242	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 1:Transmit at 2462MHz by 802.11b(Chain 1)



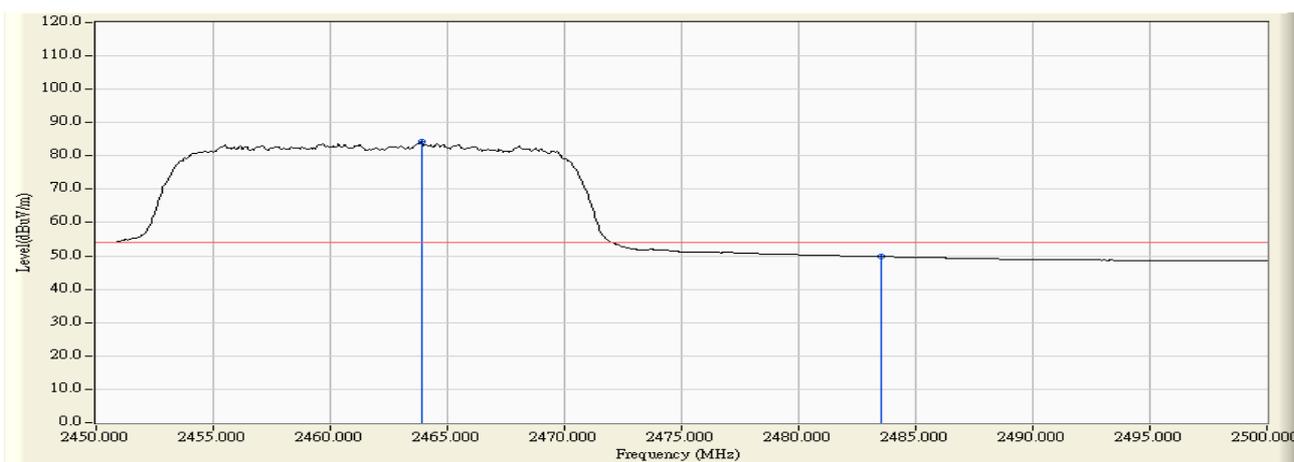
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.300	31.224	63.912	95.136	N/A	N/A	AVERAGE
2		2483.500	31.212	17.242	48.454	-5.516	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g(Chain 1)



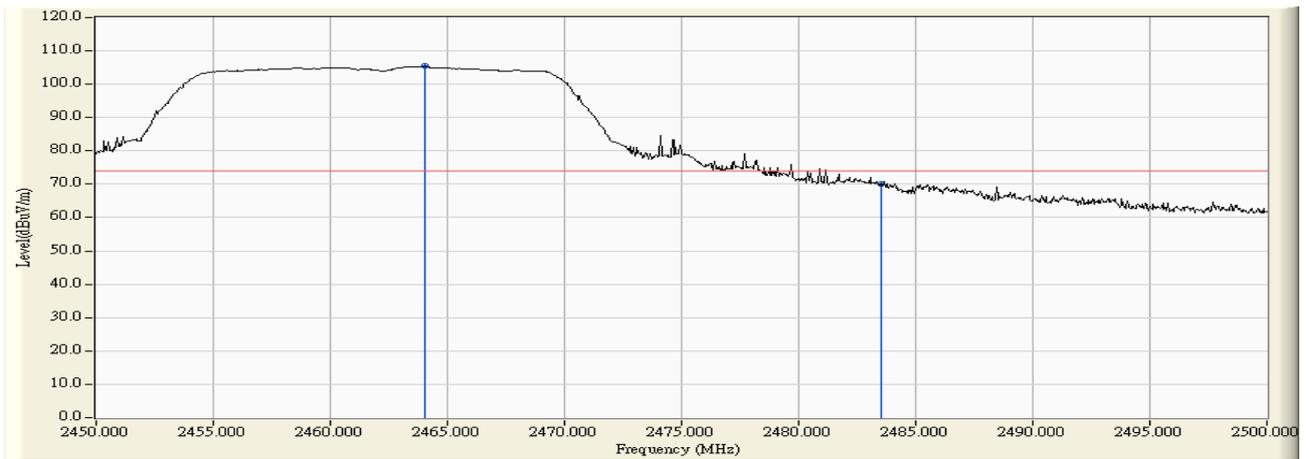
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.100	31.224	67.420	98.645	N/A	N/A	PEAK
2		2483.500	31.212	34.800	66.012	-7.958	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g(Chain 1)



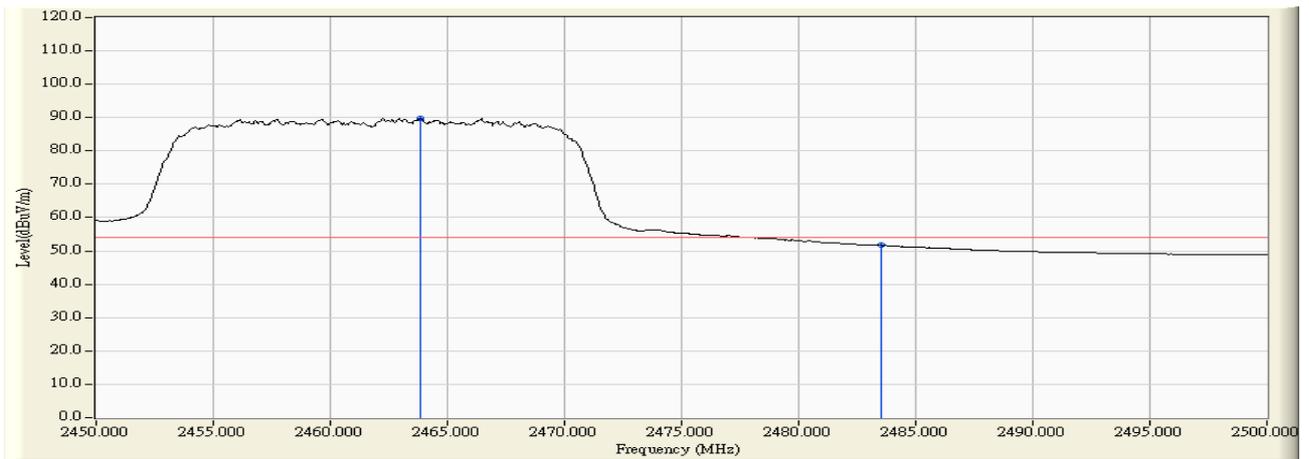
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.900	31.224	52.929	84.153	N/A	N/A	AVERAGE
2		2483.500	31.212	18.554	49.766	-4.204	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g(Chain 1)



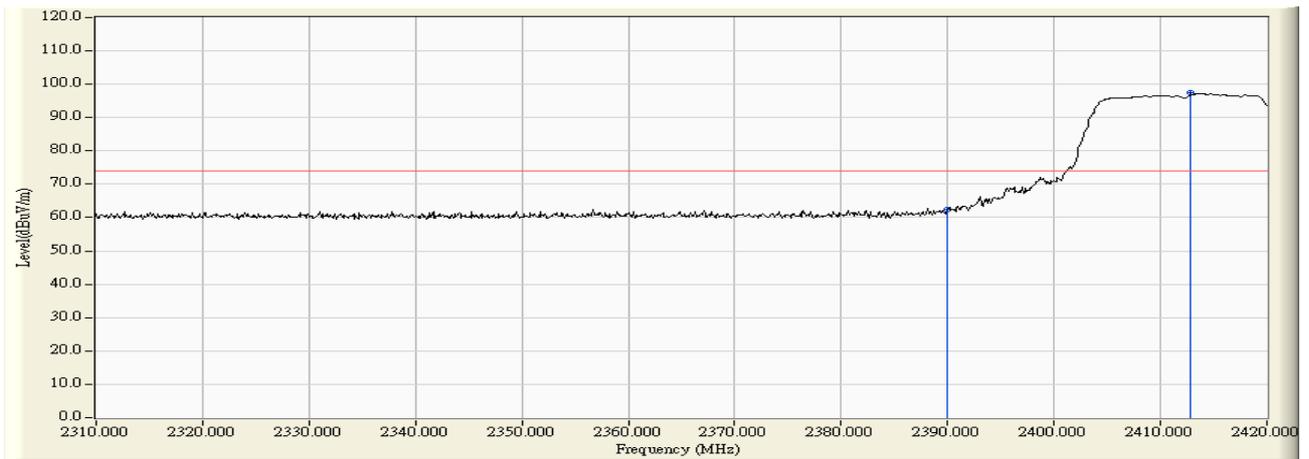
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.050	31.224	74.318	105.542	N/A	N/A	PEAK
2		2483.500	31.212	39.064	70.276	-3.694	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2462MHz by 802.11g(Chain 1)



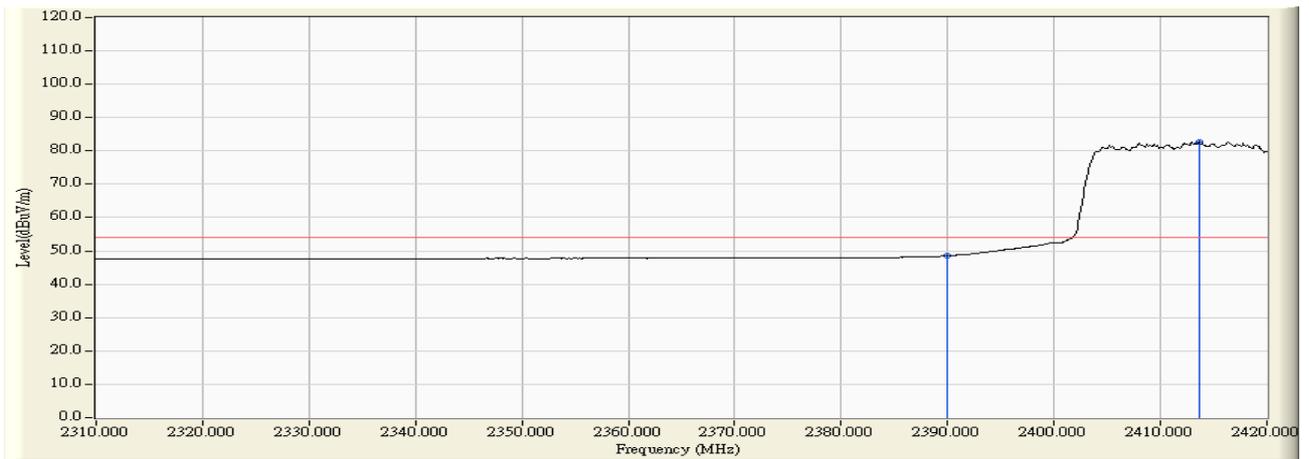
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.850	31.224	58.597	89.821	N/A	N/A	AVERAGE
2		2483.500	31.212	20.494	51.706	-2.264	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:40
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2412MHz by 802.11g(Chain 1)



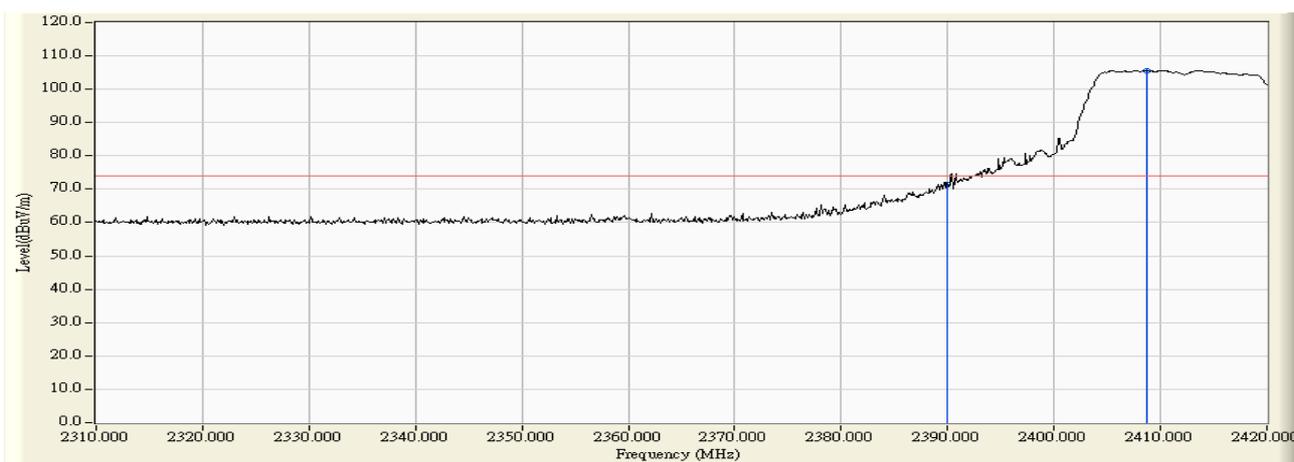
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	31.110	62.294	-11.676	73.970	PEAK
2	*	2412.850	31.191	66.417	97.608	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:40
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2412MHz by 802.11g(Chain 1)



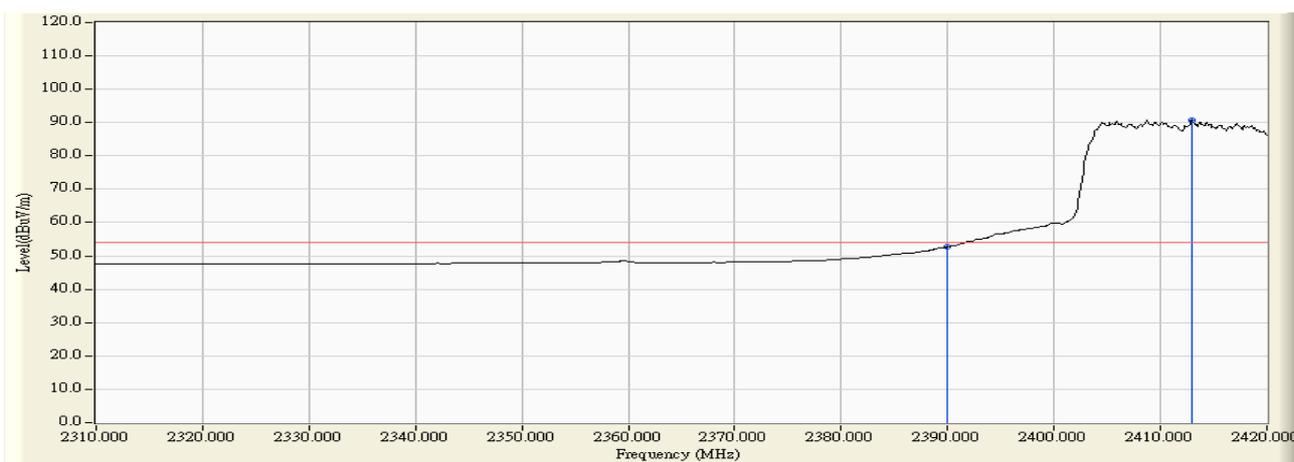
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.424	48.608	-5.362	53.970	AVERAGE
2	*	2413.620	31.191	51.638	82.830	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2412MHz by 802.11g(Chain 1)



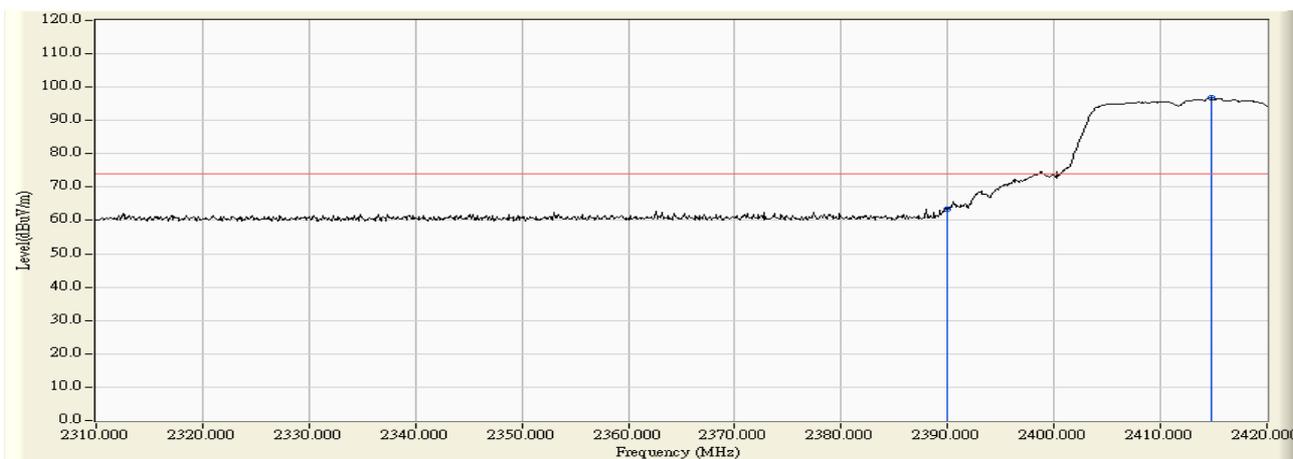
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	40.289	71.473	-2.497	73.970	PEAK
2	*	2408.670	31.188	74.304	105.492	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 2:Transmit at 2412MHz by 802.11g(Chain 1)



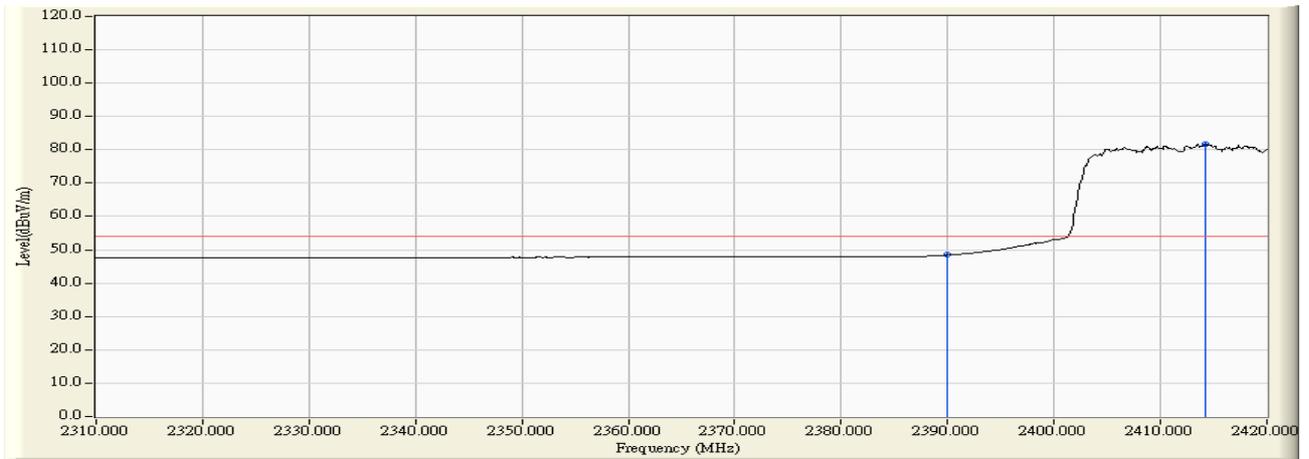
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	21.576	52.760	-1.210	53.970	AVERAGE
2	*	2412.960	31.191	59.421	90.612	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 1)



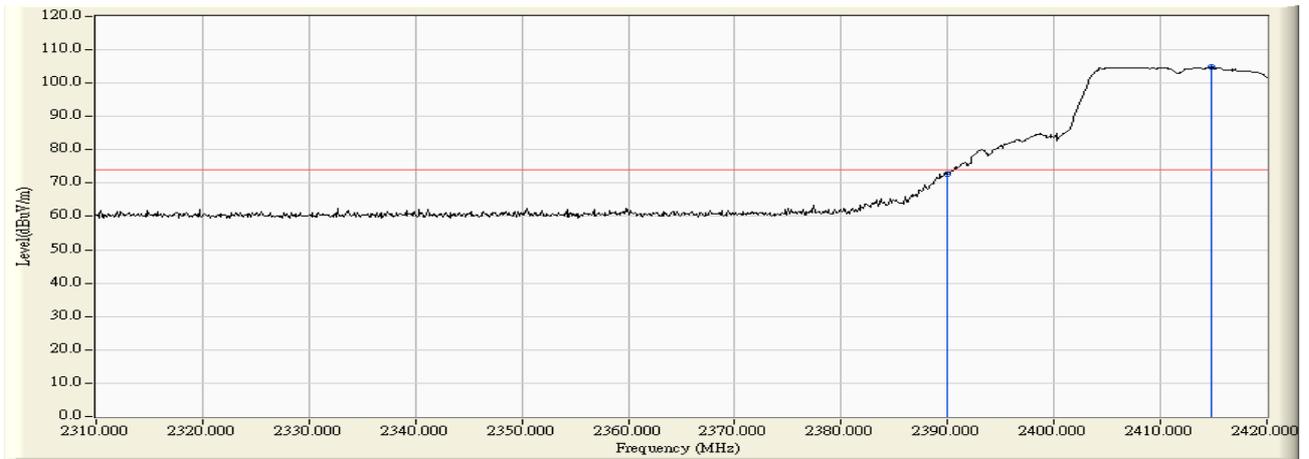
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	32.164	63.348	-10.622	73.970	PEAK
2	*	2414.830	31.193	65.672	96.865	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 1)



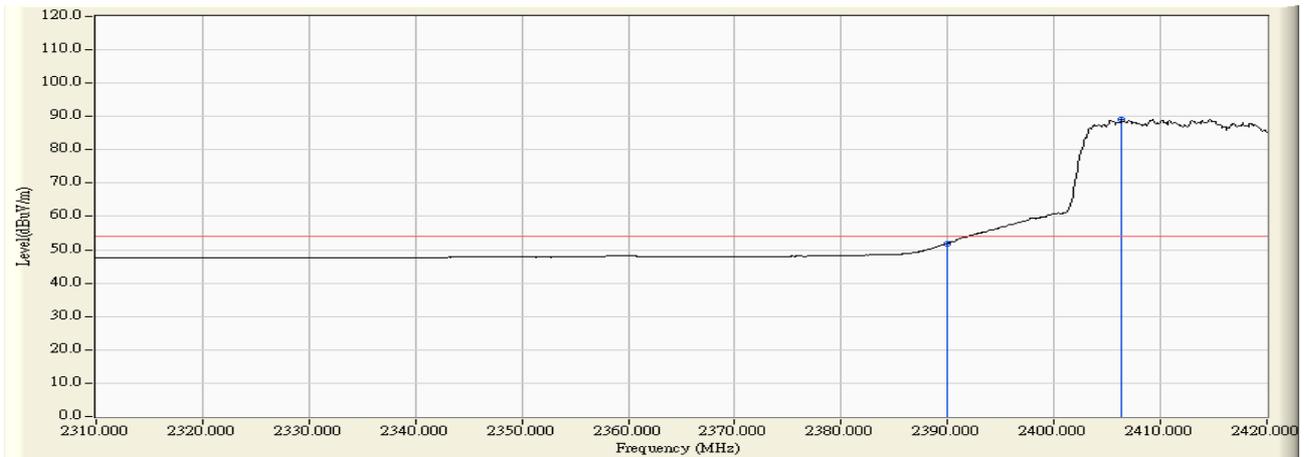
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.252	48.436	-5.534	53.970	AVERAGE
2	*	2414.170	31.192	50.493	81.685	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 1)



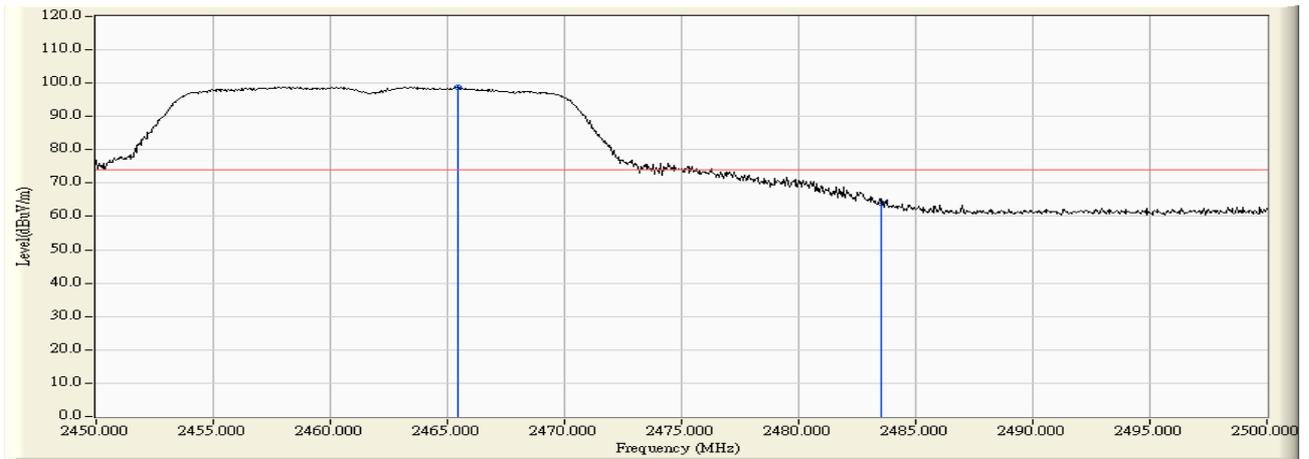
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	41.681	72.865	-1.105	73.970	PEAK
2	*	2414.720	31.193	73.830	105.023	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:45
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 1)



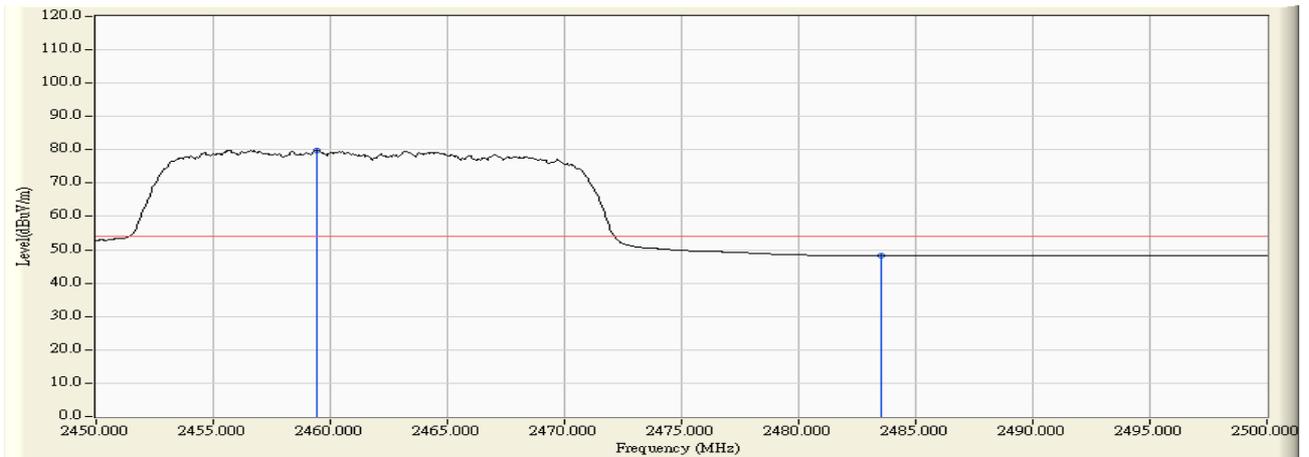
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	20.748	51.932	-2.038	53.970	AVERAGE
2	*	2406.360	31.187	57.880	89.067	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 1)



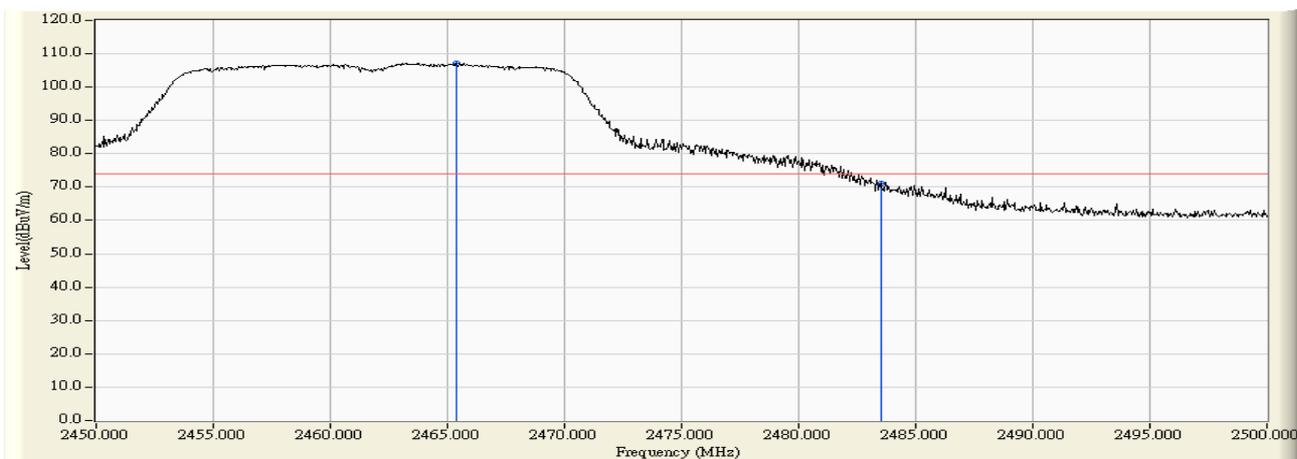
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.450	31.223	67.650	98.873	N/A	N/A	PEAK
2		2483.500	31.212	32.781	63.993	-9.977	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:54
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 1)



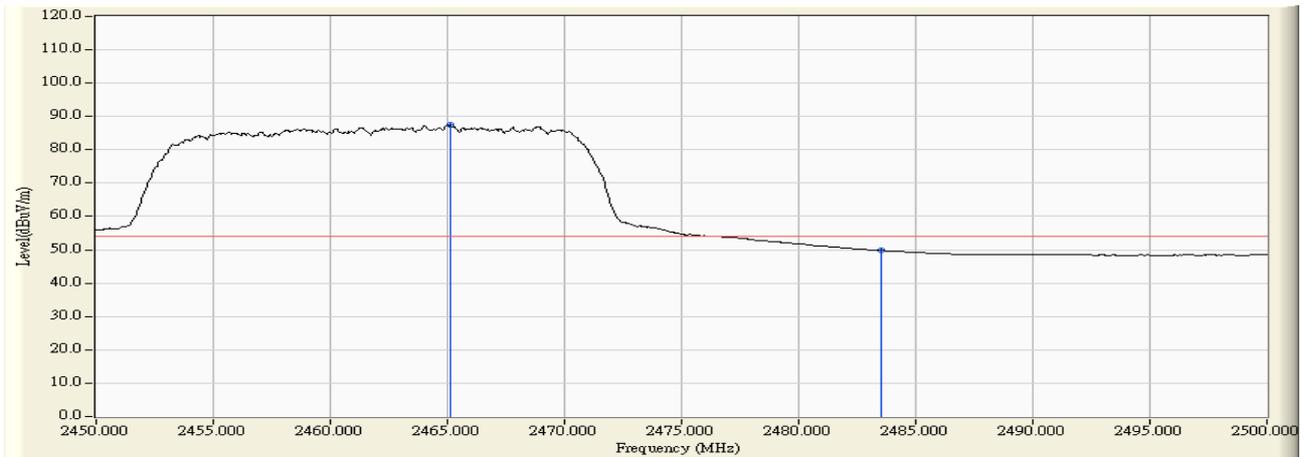
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.450	31.224	48.535	79.759	N/A	N/A	AVERAGE
2		2483.500	31.212	16.970	48.182	-5.788	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 1)



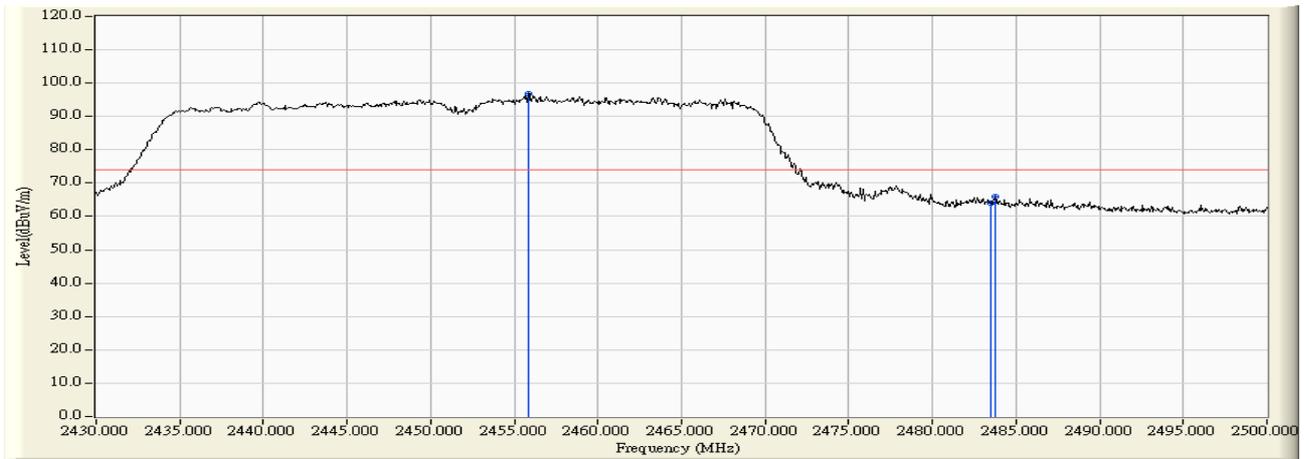
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.400	31.223	75.949	107.172	N/A	N/A	PEAK
2		2483.500	31.212	39.887	71.099	-2.871	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 10:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 1)



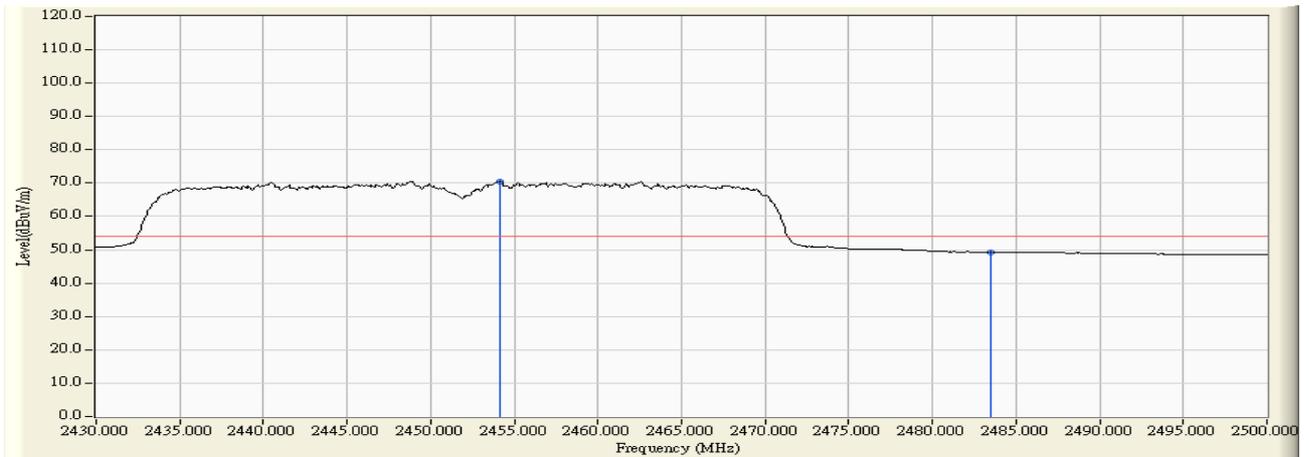
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.100	31.223	56.318	87.541	N/A	N/A	AVERAGE
2		2483.500	31.212	18.584	49.796	-4.174	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:11
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



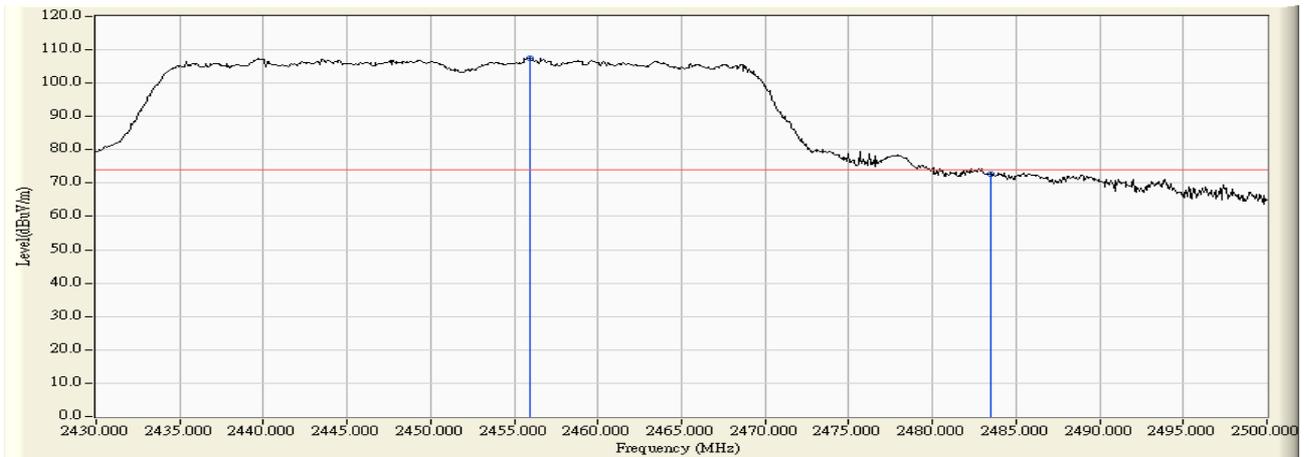
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.830	31.223	65.527	96.750	N/A	N/A	PEAK
2		2483.500	31.212	32.693	63.905	-10.065	73.970	PEAK
3		2483.760	31.212	34.835	66.047	-7.923	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



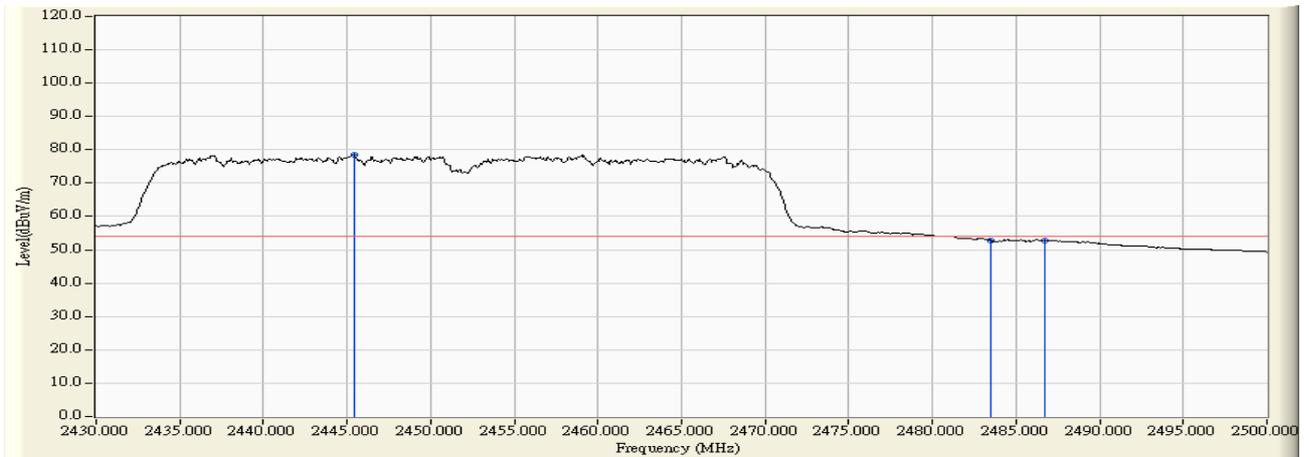
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.150	31.222	39.391	70.613	N/A	N/A	AVERAGE
2		2483.500	31.212	18.070	49.282	-4.688	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:01
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



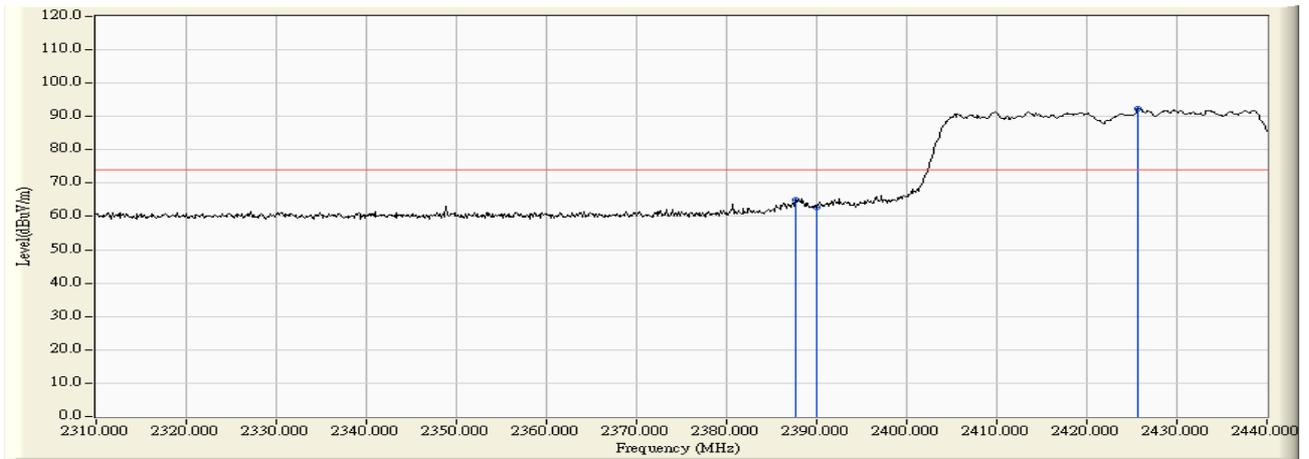
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.970	31.223	76.331	107.554	N/A	N/A	PEAK
2		2483.500	31.212	41.534	72.746	-1.224	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



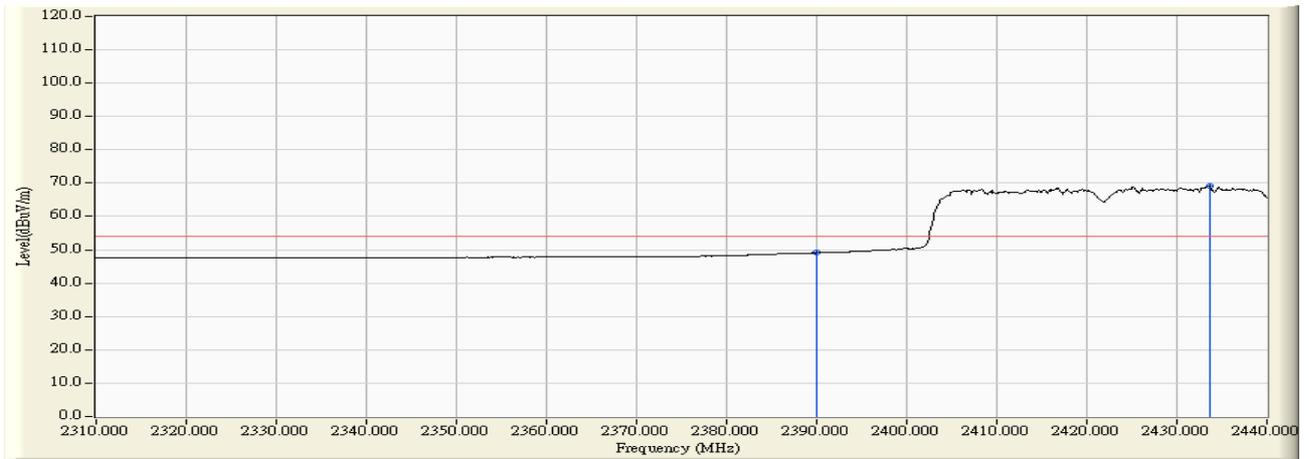
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2445.470	31.219	47.380	78.599	N/A	N/A	AVERAGE
2		2483.500	31.212	21.467	52.679	-1.291	53.970	AVERAGE
3		2486.700	31.210	21.582	52.792	-1.178	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



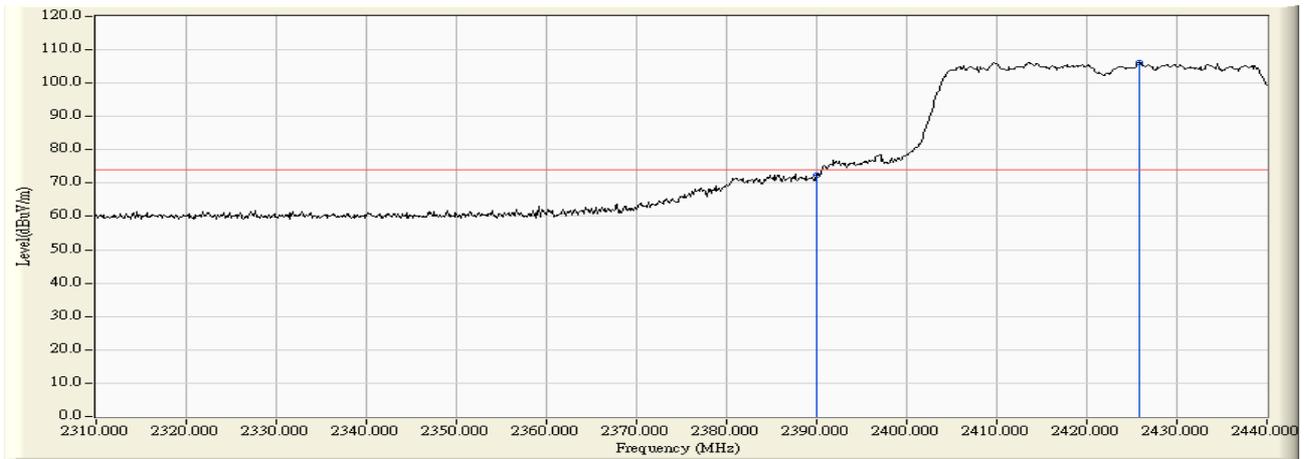
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2387.610	31.187	33.878	65.065	-8.905	73.970	PEAK
2		2390.000	31.184	31.582	62.766	-11.204	73.970	PEAK
3	*	2425.700	31.202	61.008	92.210	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



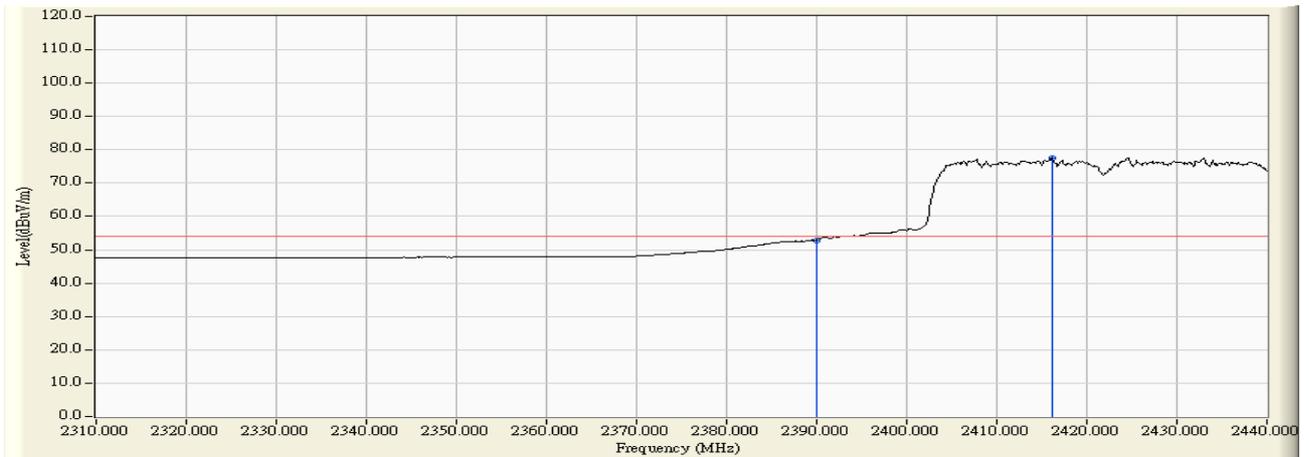
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.885	49.069	-4.901	53.970	AVERAGE
2	*	2433.630	31.209	37.980	69.189	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



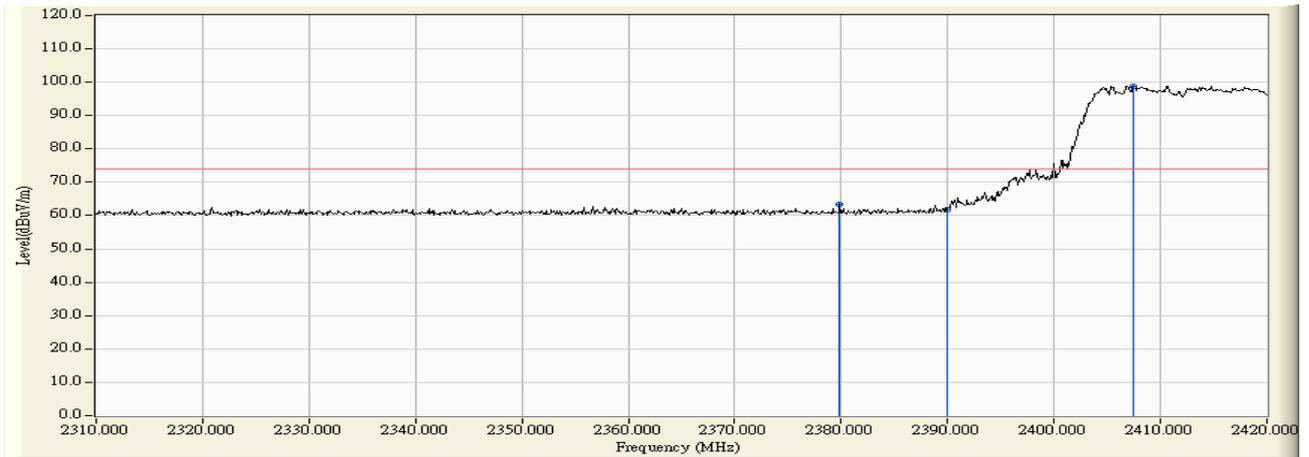
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	41.216	72.400	-1.570	73.970	PEAK
2	*	2425.830	31.202	74.984	106.186	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 1)



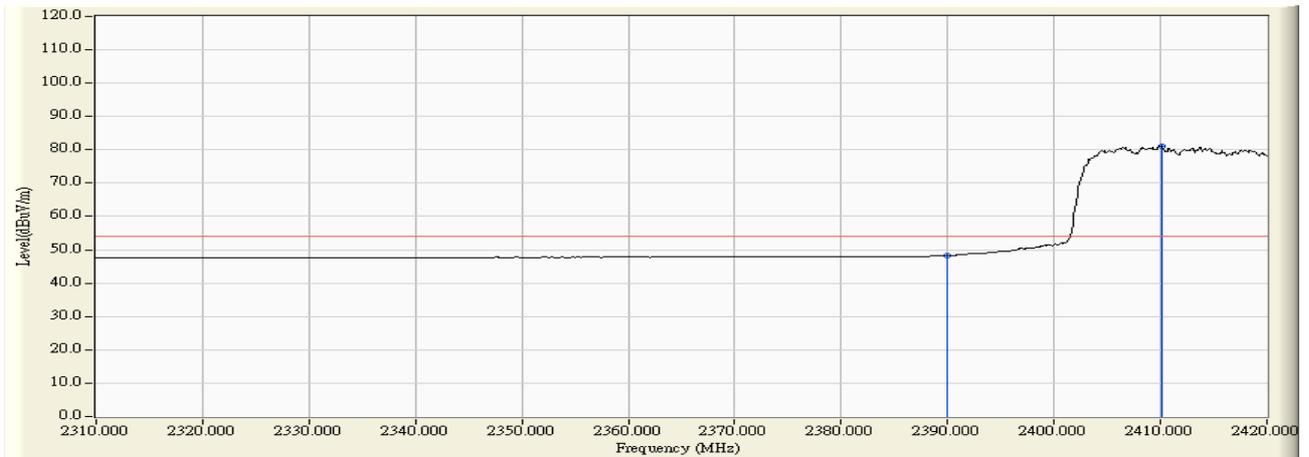
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	21.721	52.905	-1.065	53.970	AVERAGE
2	*	2416.210	31.194	46.379	77.573	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:31
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0+1)



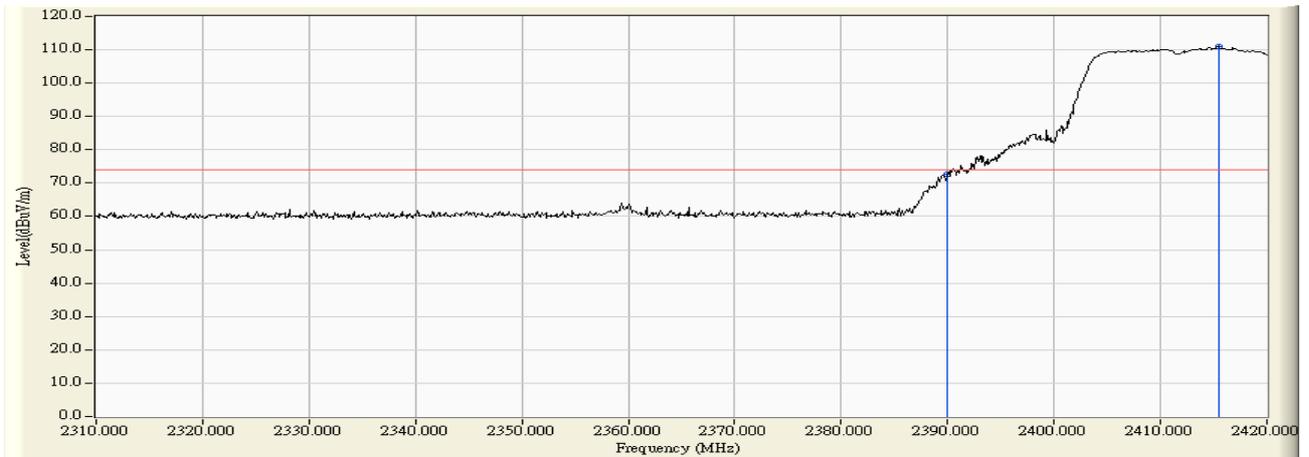
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2379.850	31.196	32.162	63.358	-10.612	73.970	PEAK
2		2390.000	31.184	30.686	61.870	-12.100	73.970	PEAK
3	*	2407.460	31.187	67.574	98.761	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:32
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0+1)



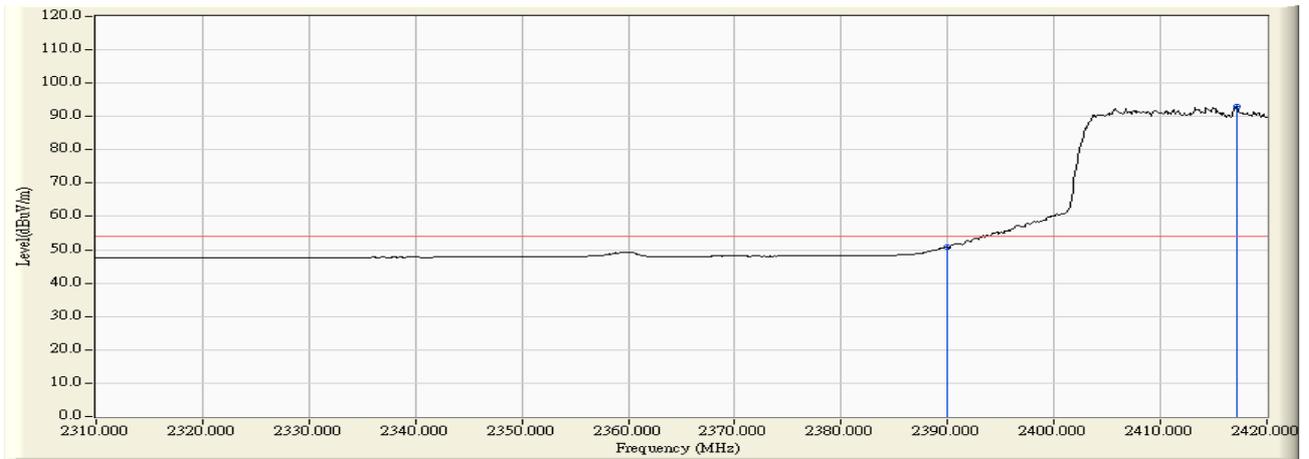
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.085	48.269	-5.701	53.970	AVERAGE
2	*	2410.100	31.189	49.867	81.056	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0+1)



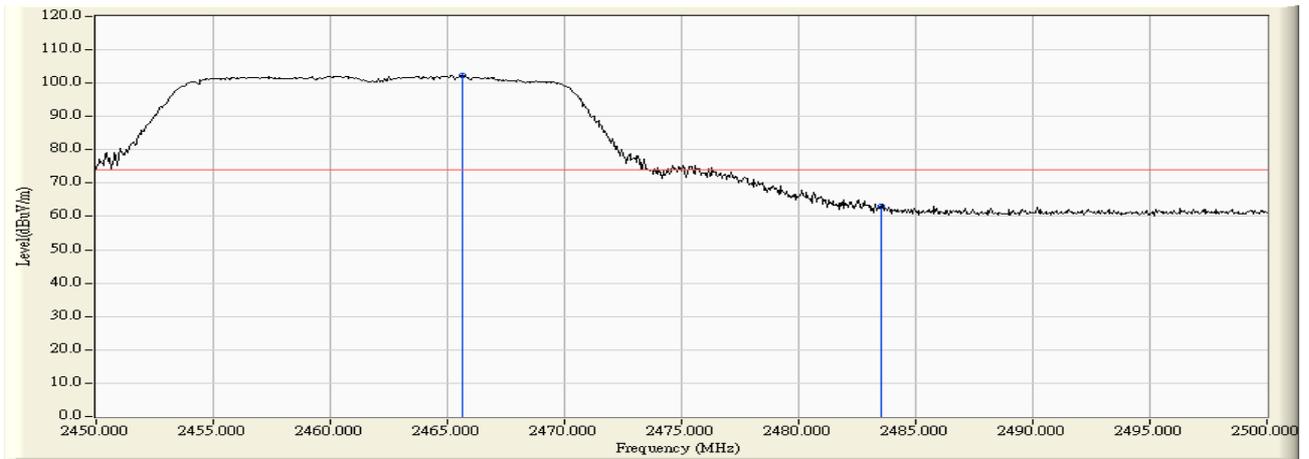
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	41.515	72.699	-1.271	73.970	PEAK
2	*	2415.490	31.193	79.768	110.961	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2412MHz by 802.11n(20MHz) (Chain 0+1)



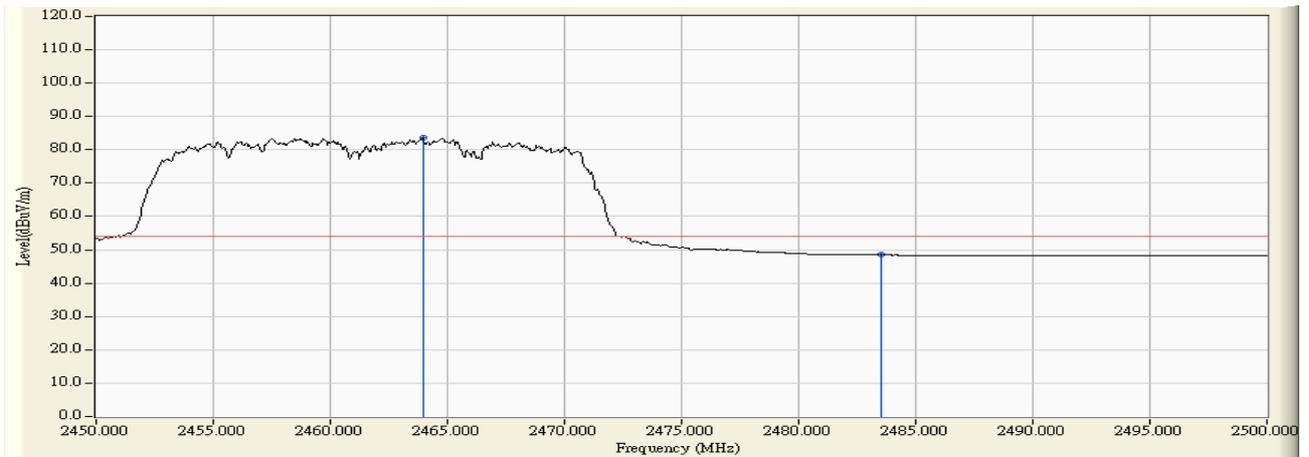
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	19.599	50.783	-3.187	53.970	AVERAGE
2	*	2417.140	31.194	61.705	92.900	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0+1)



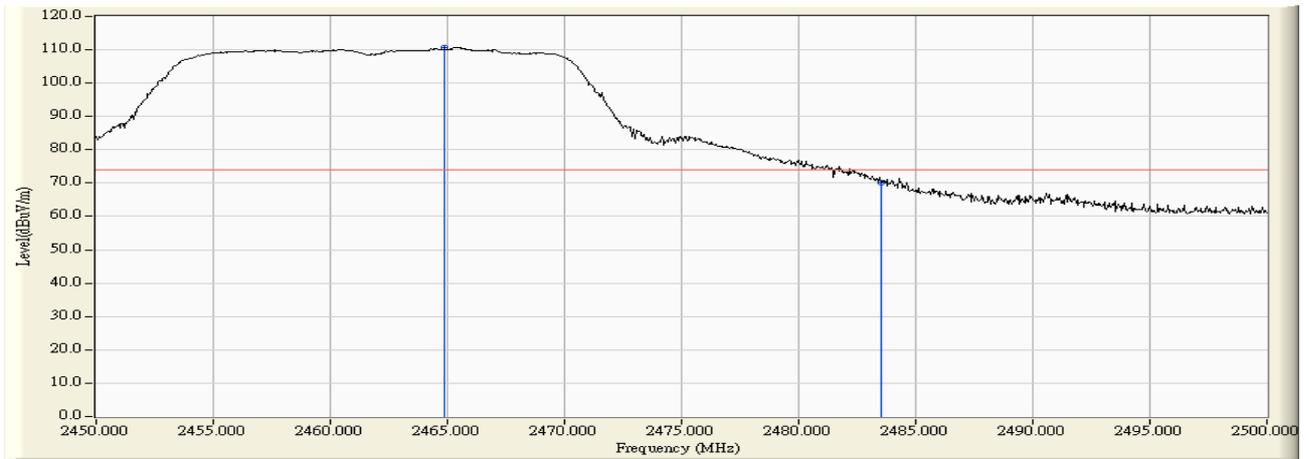
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.650	31.223	71.198	102.421	N/A	N/A	PEAK
2		2483.500	31.212	31.832	63.044	-10.926	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:40
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0+1)



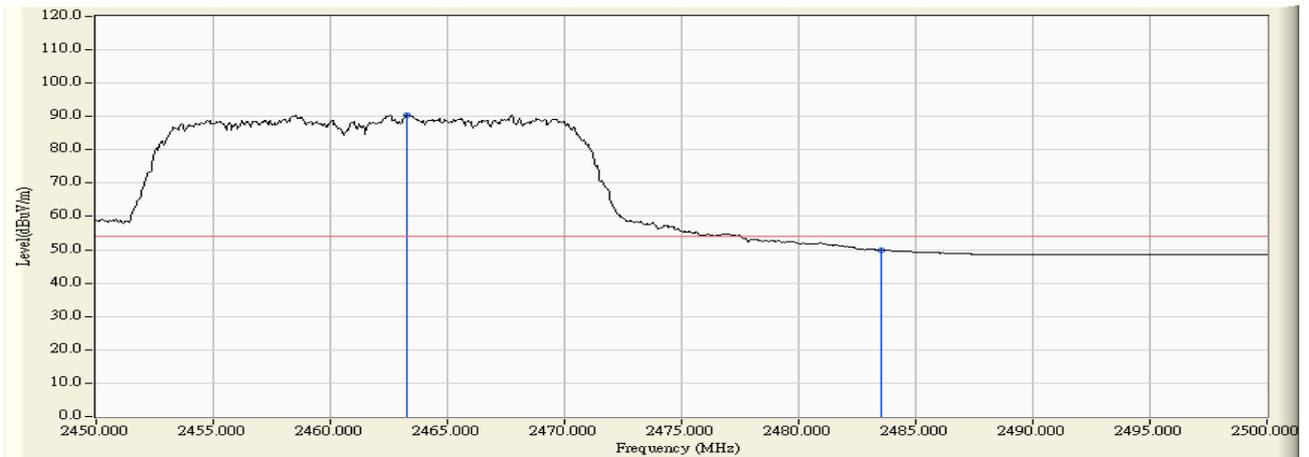
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.950	31.224	52.264	83.488	N/A	N/A	AVERAGE
2		2483.500	31.212	17.226	48.438	-5.532	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:37
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0+1)



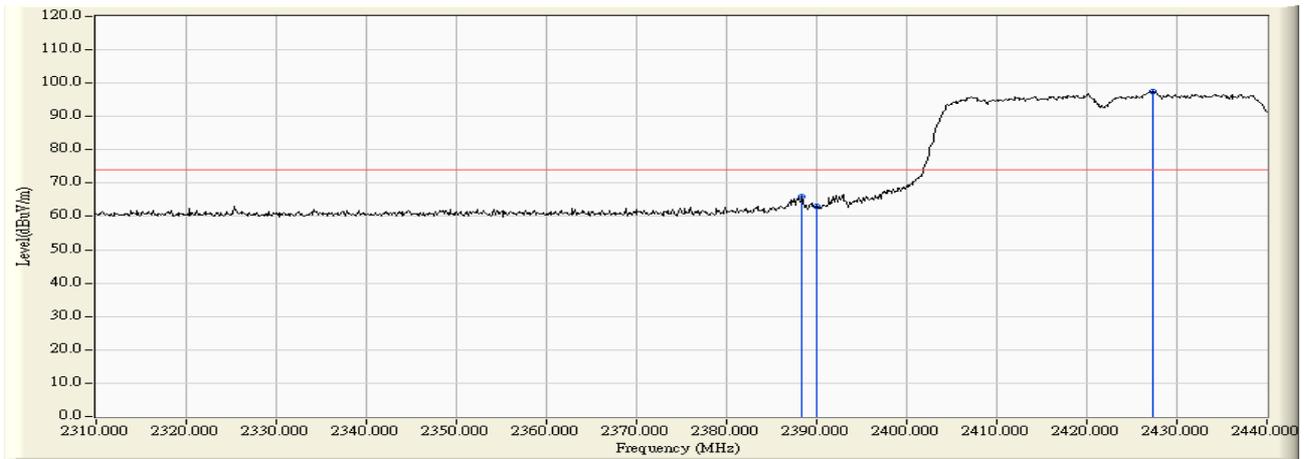
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.900	31.223	79.590	110.814	N/A	N/A	PEAK
2		2483.500	31.212	38.940	70.152	-3.818	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:38
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 3:Transmit at 2462MHz by 802.11n(20MHz) (Chain 0+1)



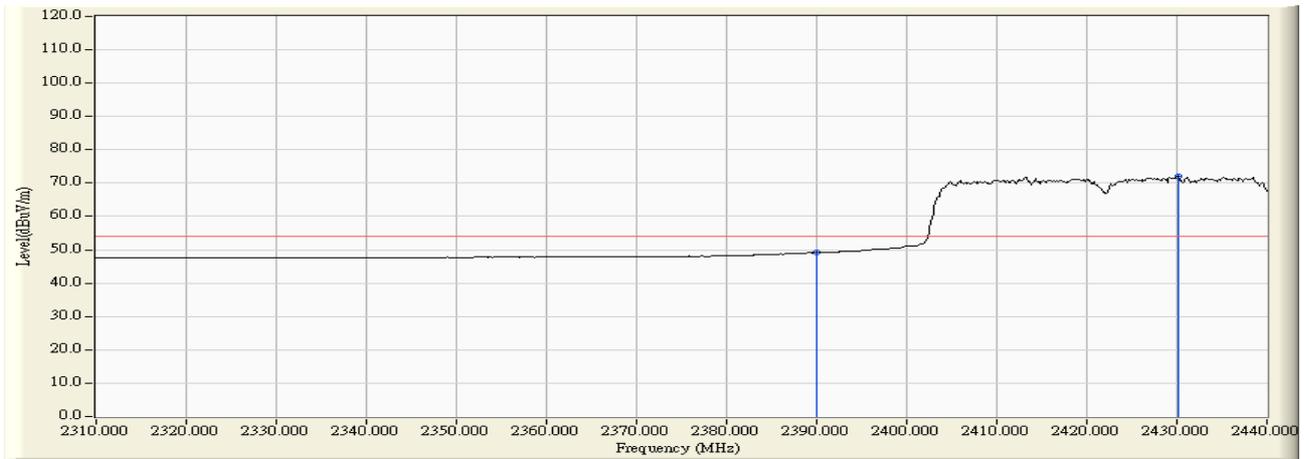
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.250	31.224	59.332	90.557	N/A	N/A	AVERAGE
2		2483.500	31.212	18.693	49.905	-4.065	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:49
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0+1)



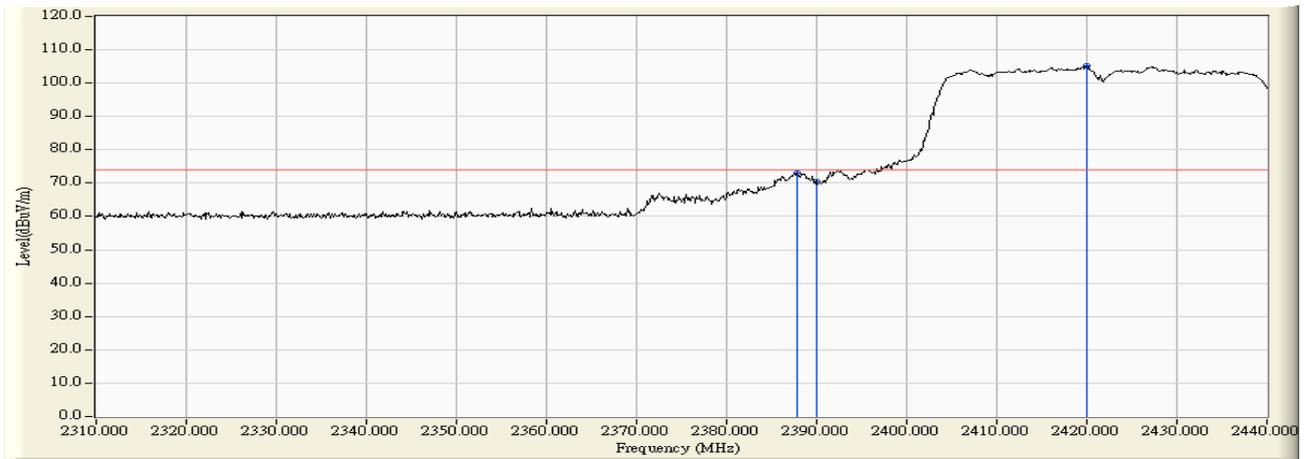
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2388.390	31.186	34.660	65.846	-8.124	73.970	PEAK
2		2390.000	31.184	31.815	62.999	-10.971	73.970	PEAK
3	*	2427.260	31.203	66.219	97.422	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0+1)



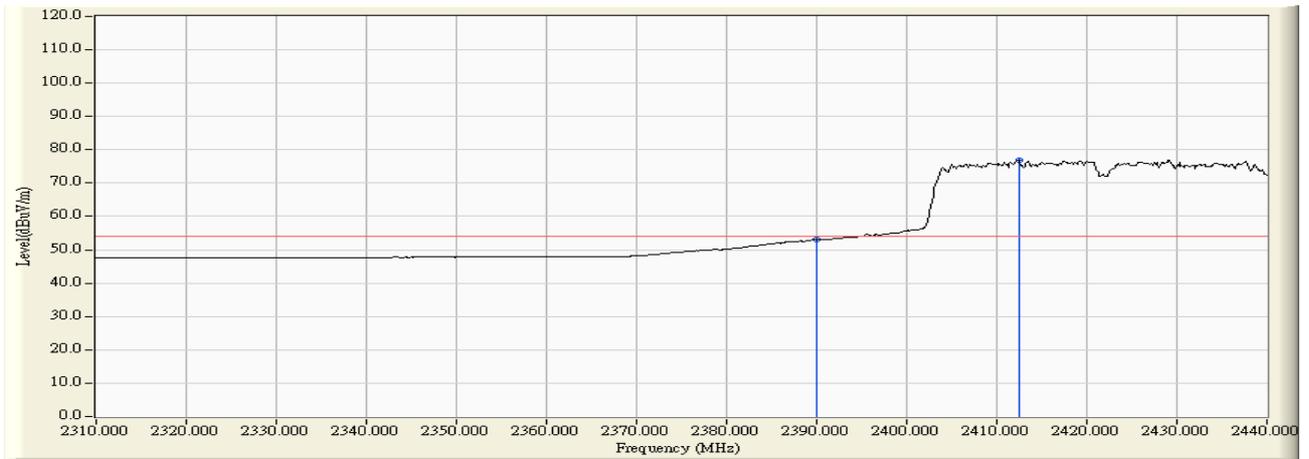
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.945	49.129	-4.841	53.970	AVERAGE
2	*	2430.120	31.206	40.909	72.115	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0+1)



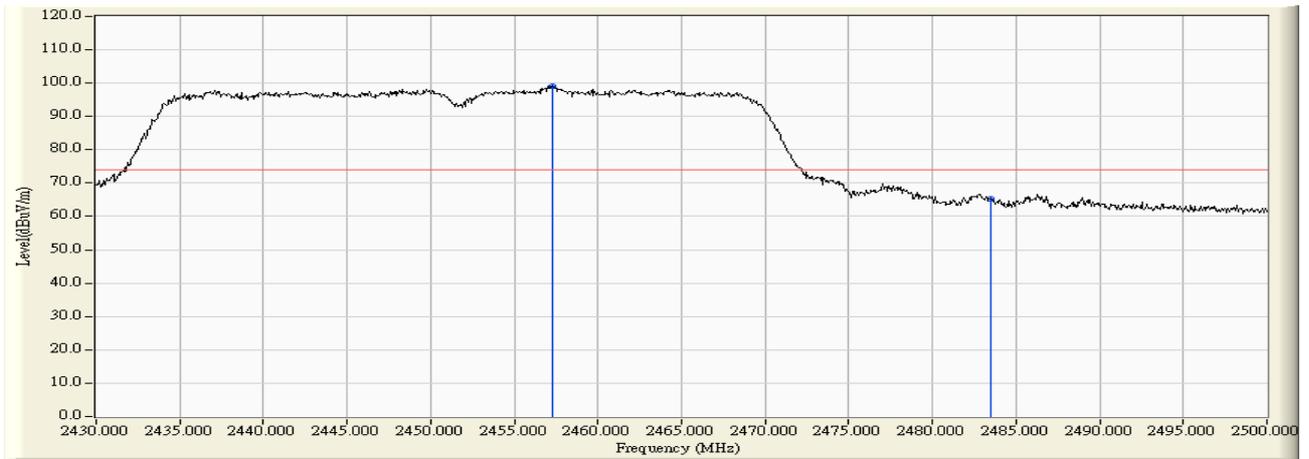
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2387.870	31.187	41.758	72.945	-1.025	73.970	PEAK
2		2390.000	31.184	39.190	70.374	-3.596	73.970	PEAK
3	*	2419.980	31.197	73.992	105.189	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2422MHz by 802.11n(40MHz) (Chain 0+1)



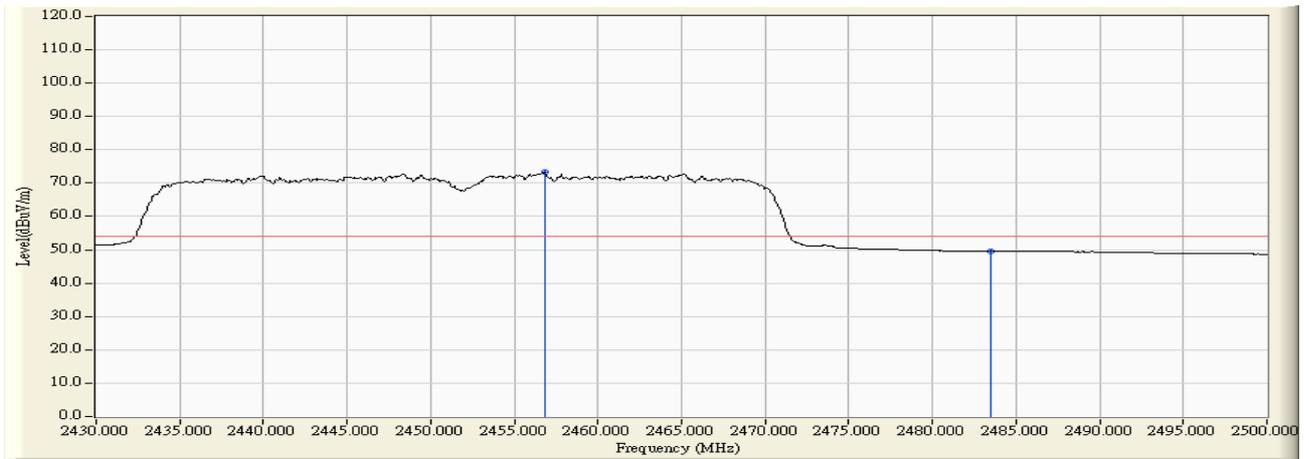
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	21.771	52.955	-1.015	53.970	AVERAGE
2	*	2412.440	31.191	45.849	77.040	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0+1)



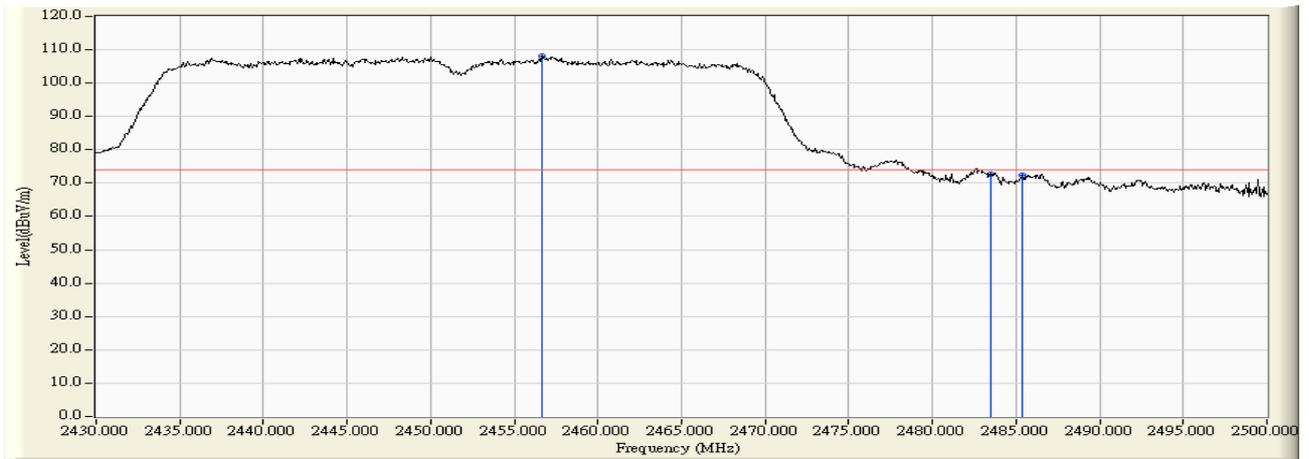
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.300	31.223	67.802	99.025	N/A	N/A	PEAK
2		2483.500	31.212	34.013	65.225	-8.745	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0+1)



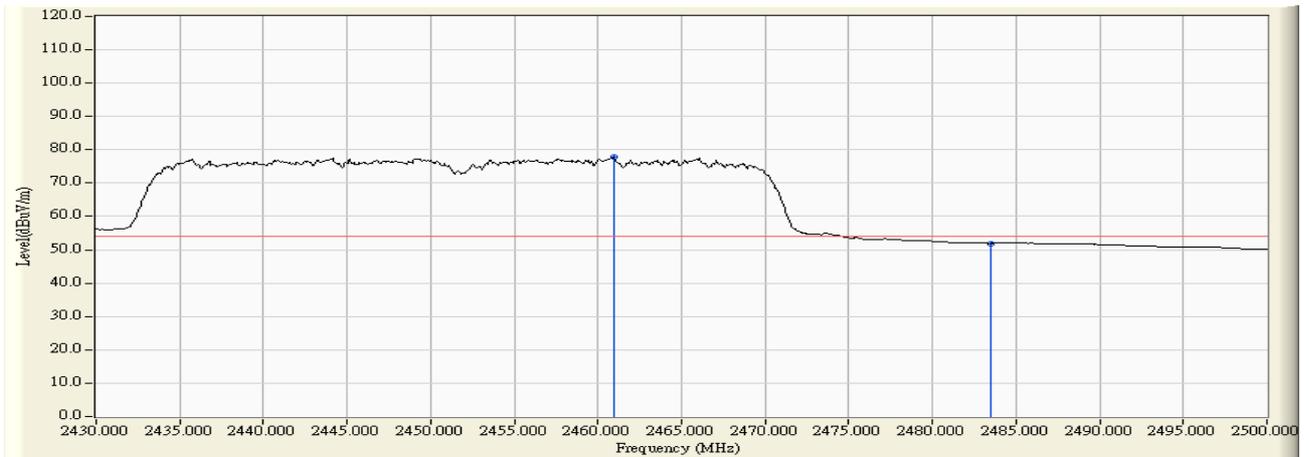
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.810	31.223	42.044	73.267	N/A	N/A	AVERAGE
2		2483.500	31.212	18.299	49.511	-4.459	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0+1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.670	31.223	76.843	108.066	N/A	N/A	PEAK
2		2483.500	31.212	41.400	72.612	-1.358	73.970	PEAK
3		2485.370	31.211	41.175	72.386	-1.584	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2009/06/21 - 11:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Home Gateway	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/50Hz	Note : Mode 4:Transmit at 2452MHz by 802.11n(40MHz) (Chain 0+1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.940	31.225	46.633	77.858	N/A	N/A	AVERAGE
2		2483.500	31.212	20.685	51.897	-2.073	53.970	AVERAGE

7. Operation Frequency Range of 20dB Bandwidth

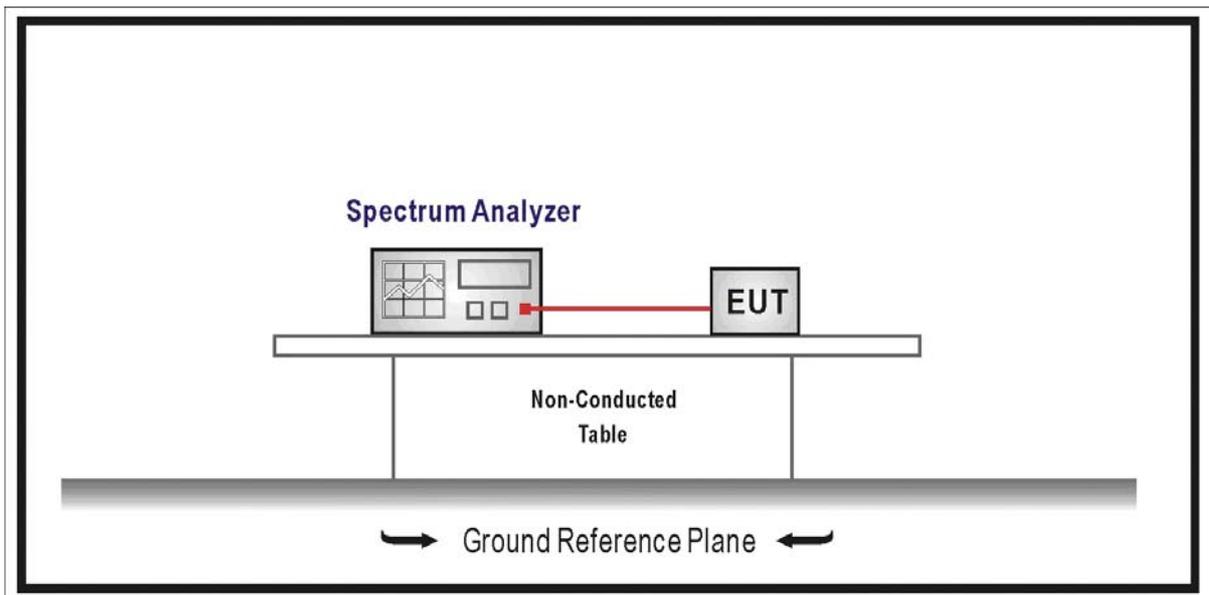
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/31s

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

7.2. Test Setup



7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

7.4. Test Procedure

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

Set RBW = 100 kHz, Span greater than RBW.

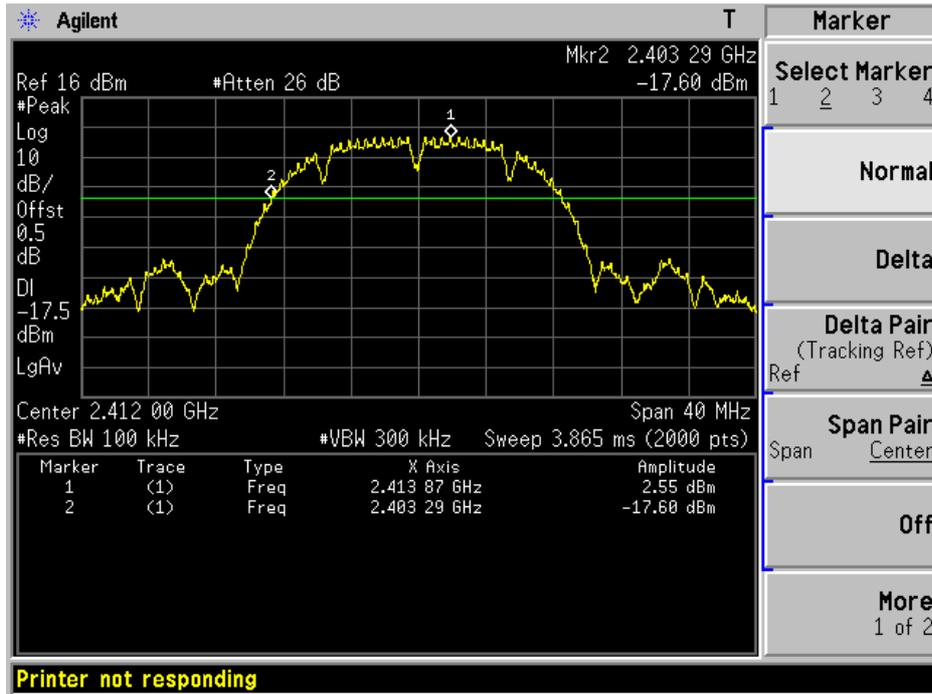
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

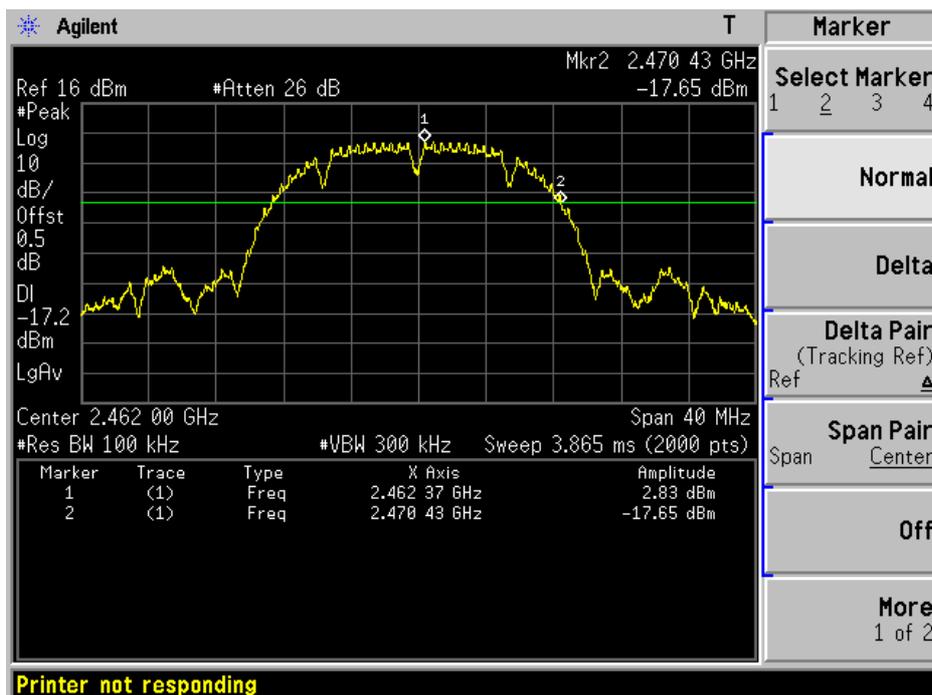
7.6. Test Result

Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel 01 (2412MHz)

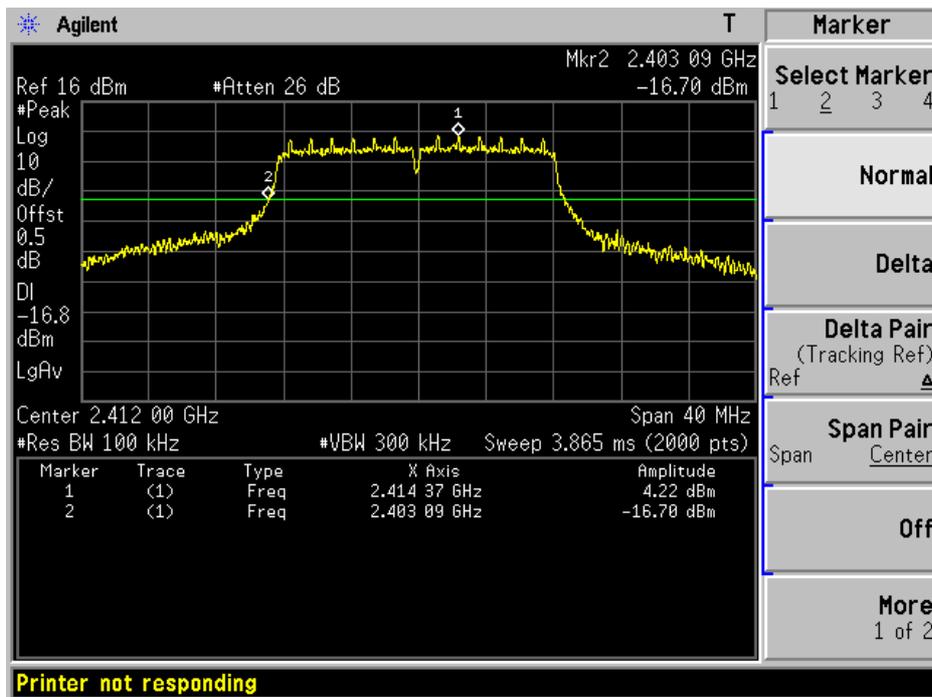


Channel 11 (2462MHz)

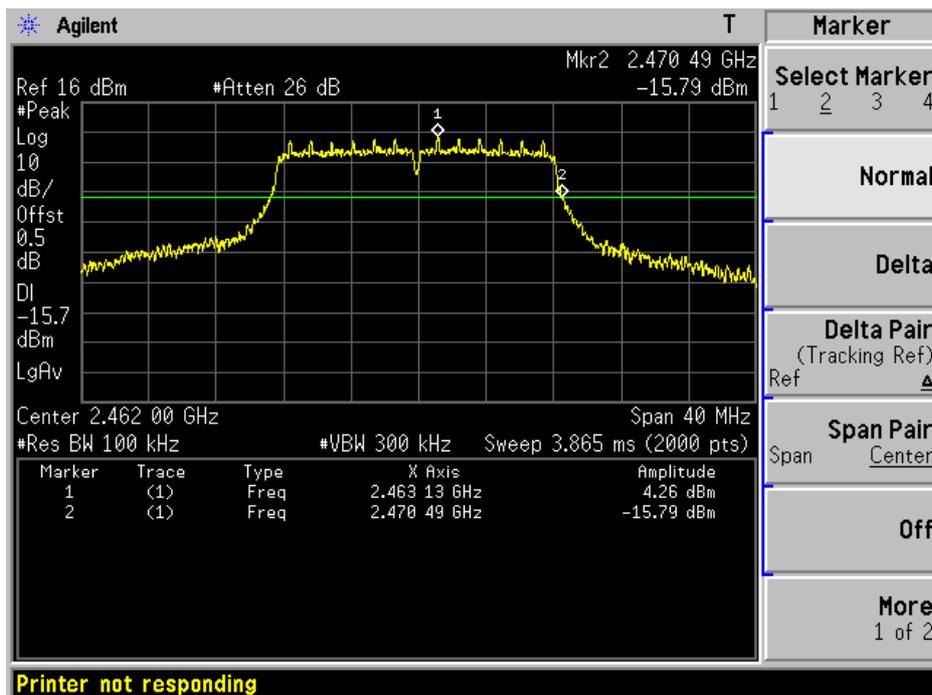


Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g (Chain 0)

Channel 01 (2412MHz)

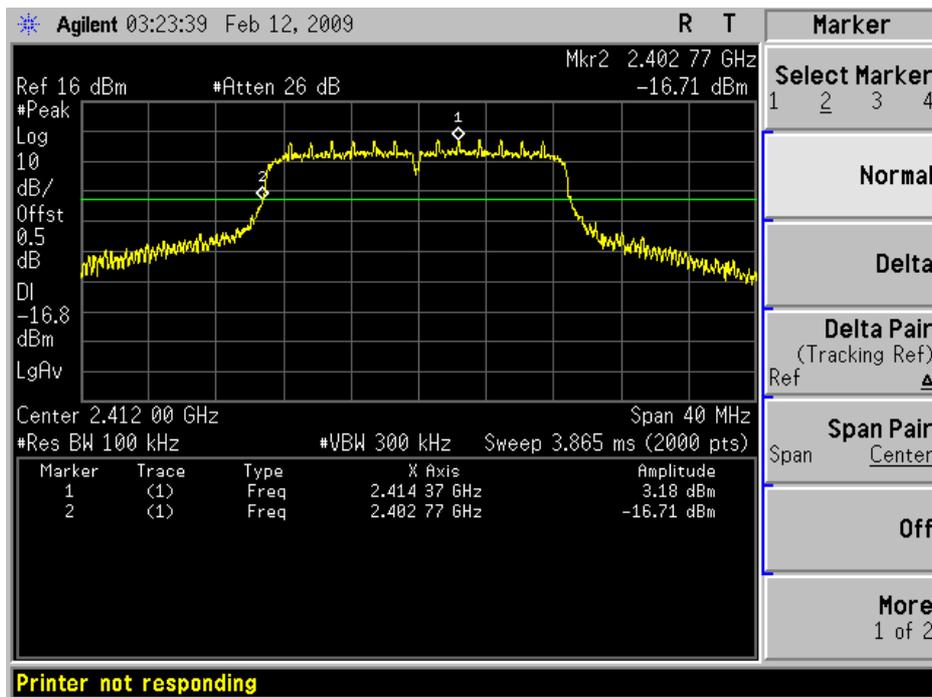


Channel 11 (2462MHz)

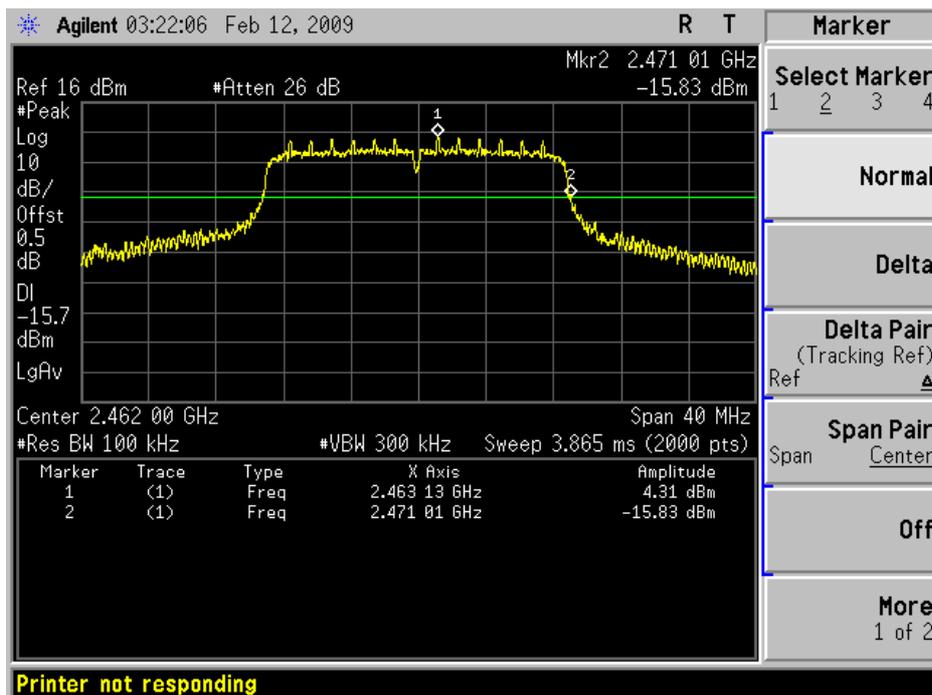


Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0)

Channel 01 (2412MHz)

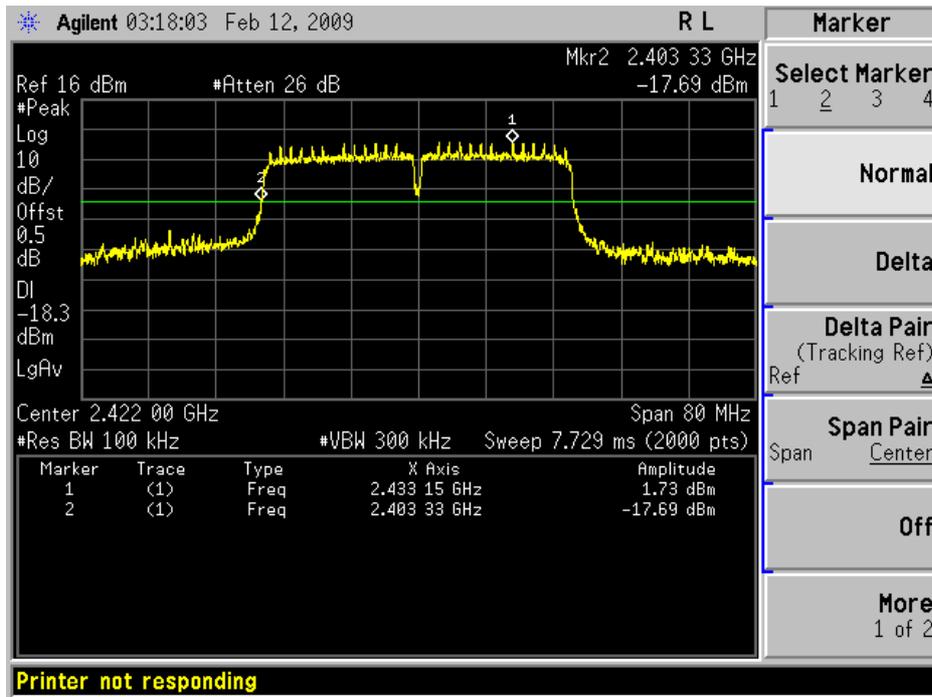


Channel 11 (2462MHz)

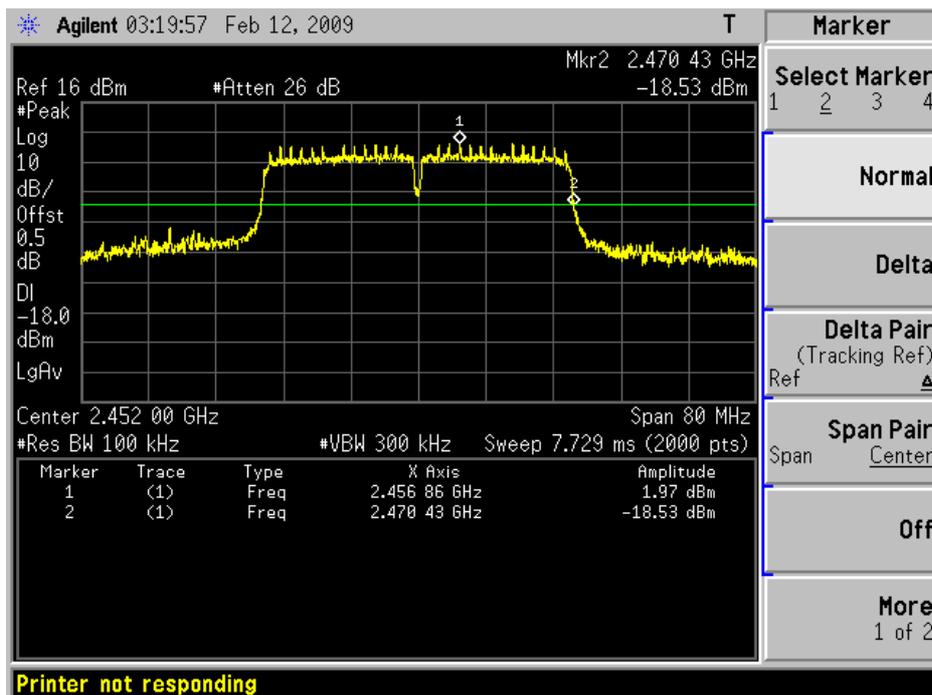


Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0)

Channel 03 (2422MHz)

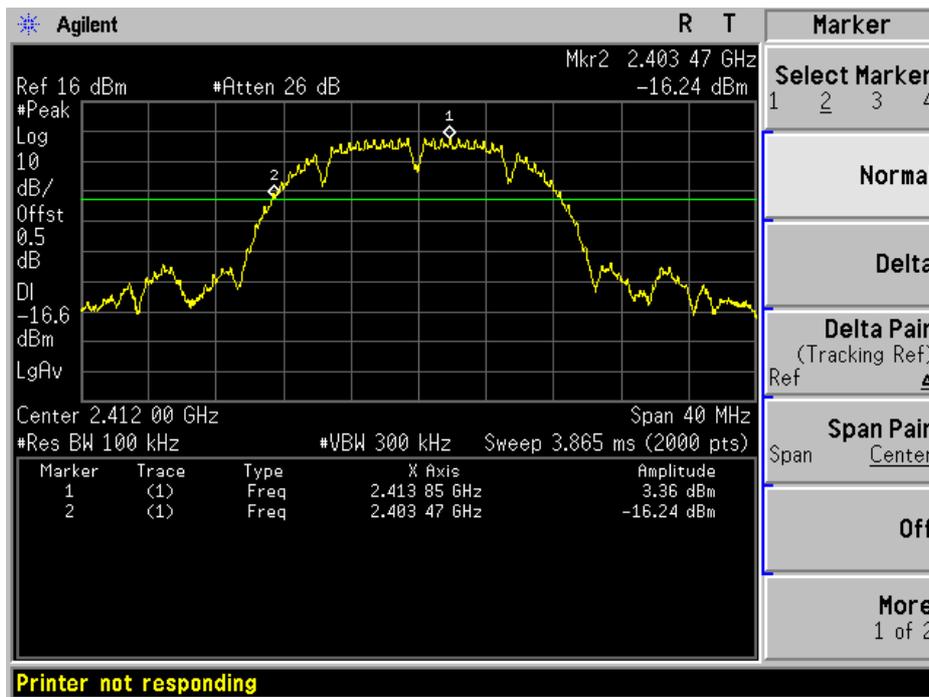


Channel 09 (2452MHz)

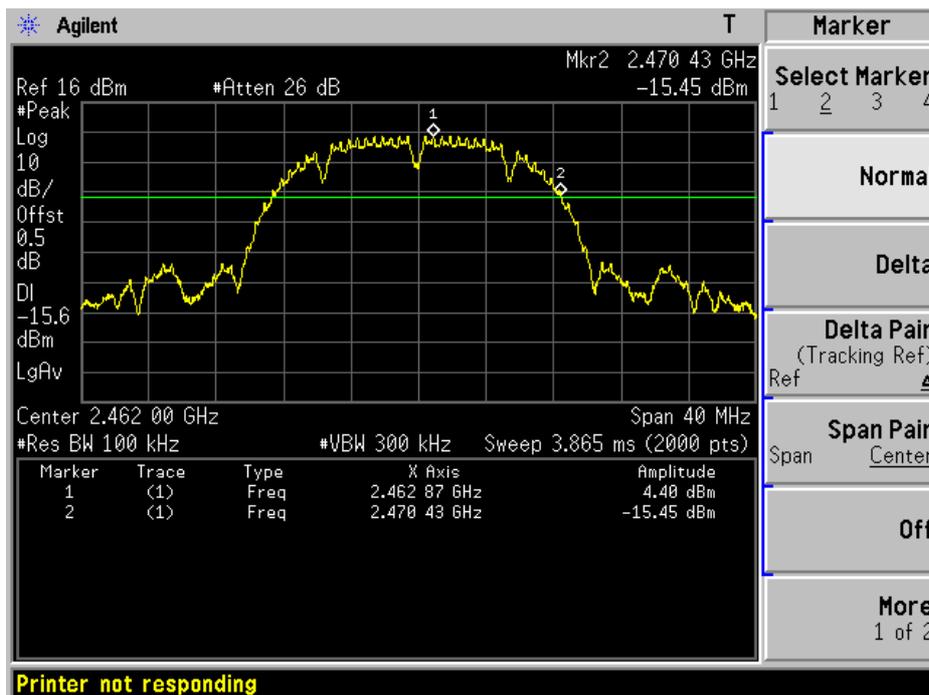


Product	:	Home Gateway
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 1)

Channel 01 (2412MHz)

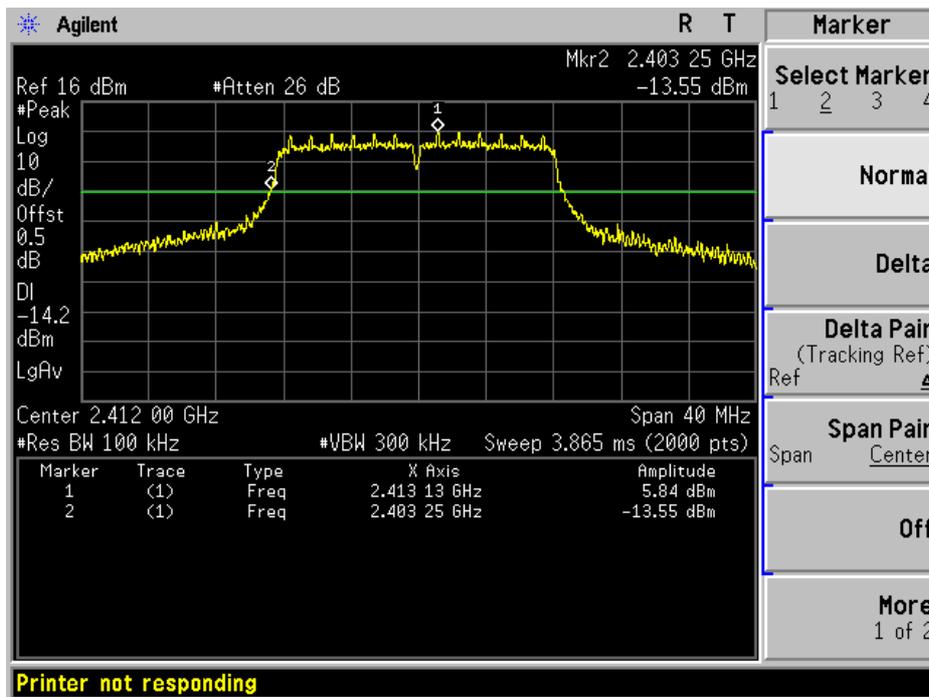


Channel 11 (2462MHz)

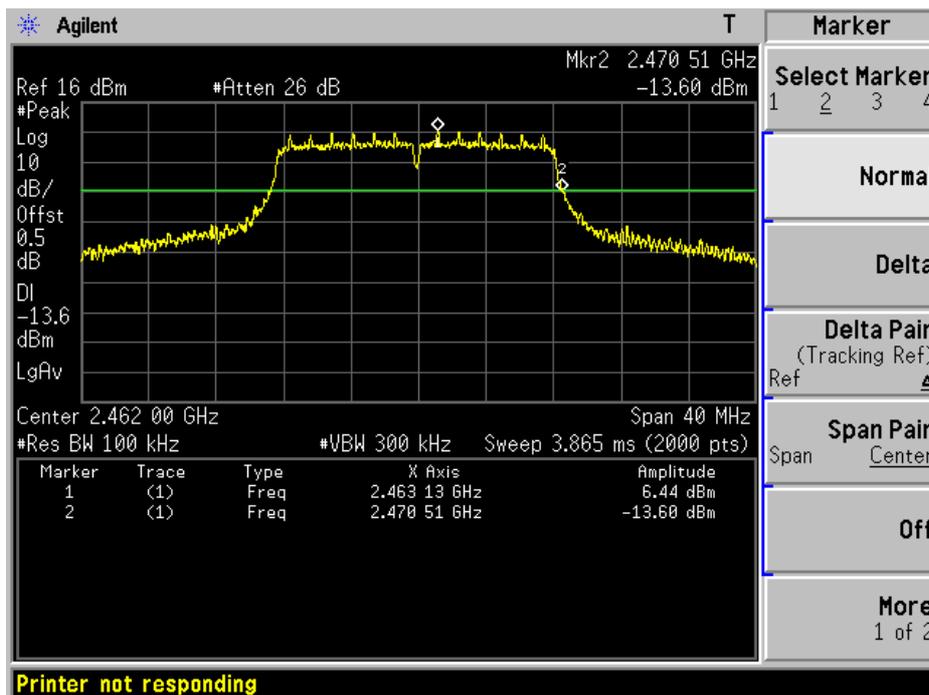


Product	: Home Gateway
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 2: Transmit at 802.11g (Chain 1)

Channel 01 (2412MHz)

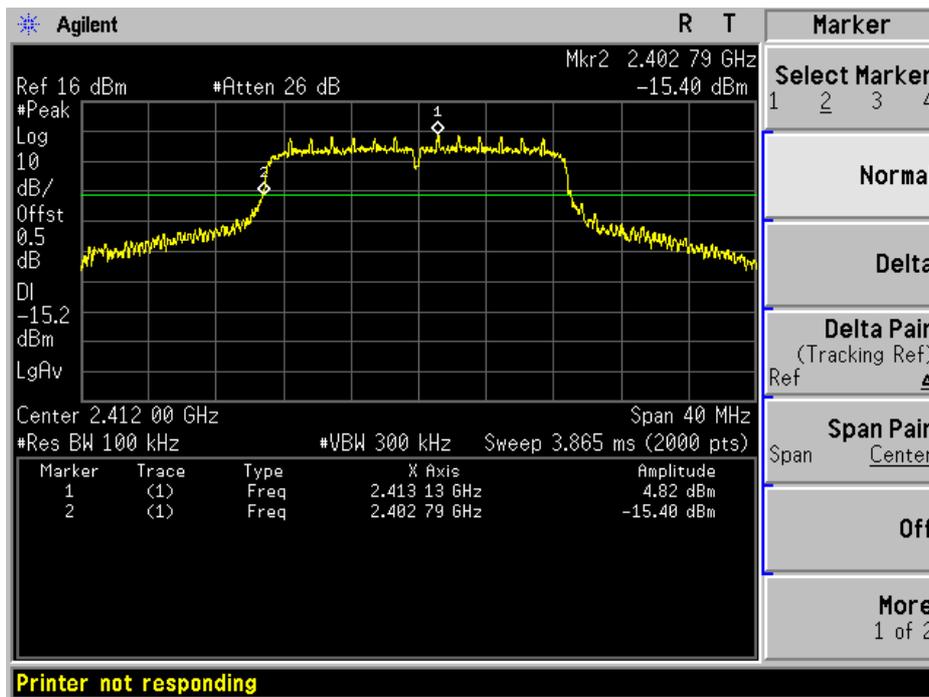


Channel 11 (2462MHz)

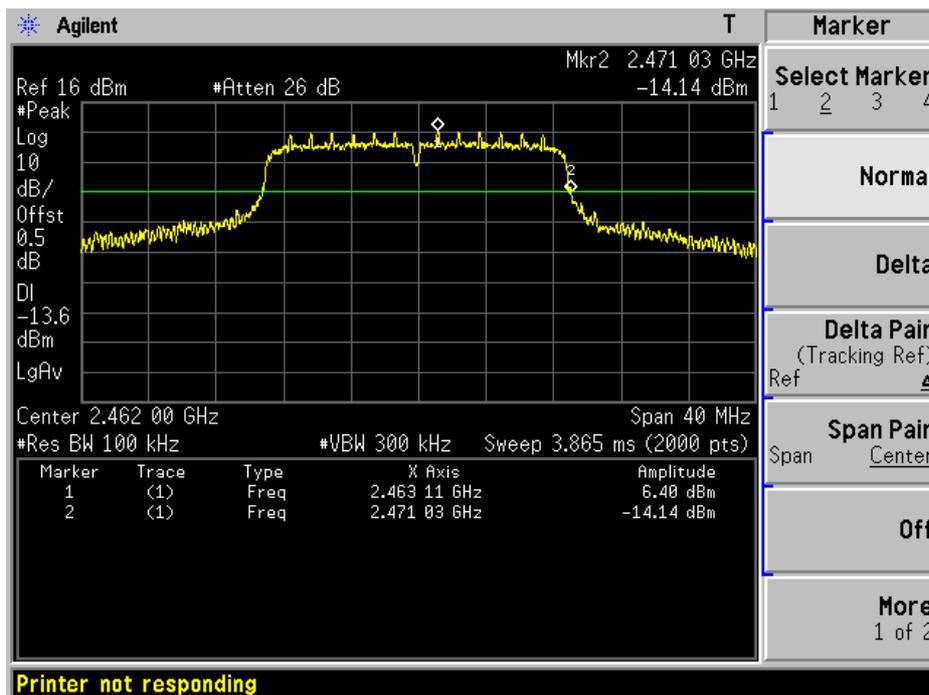


Product	: Home Gateway
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

Channel 01 (2412MHz)

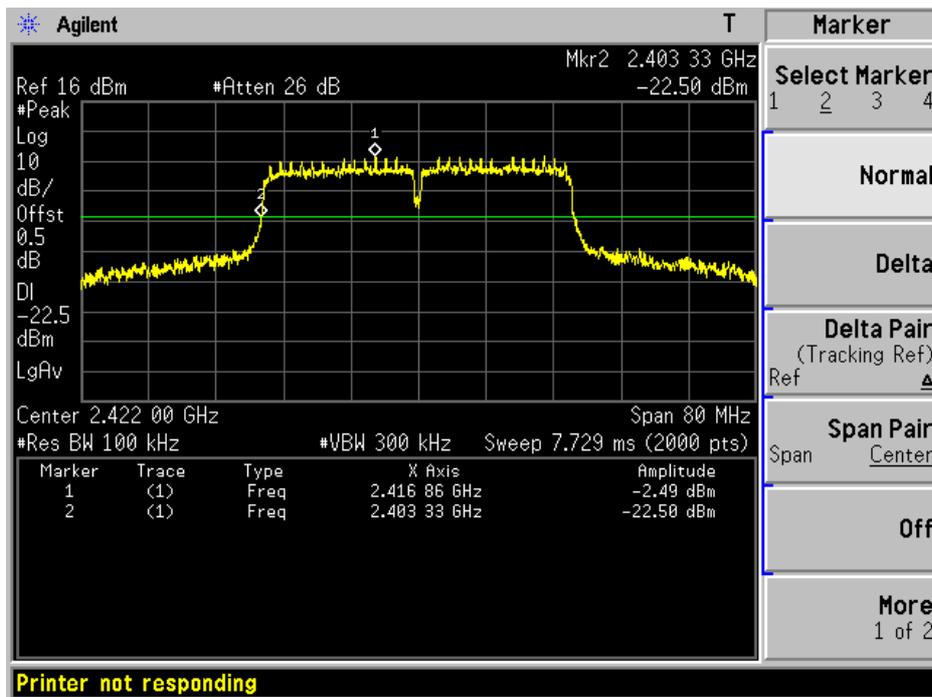


Channel 11 (2462MHz)

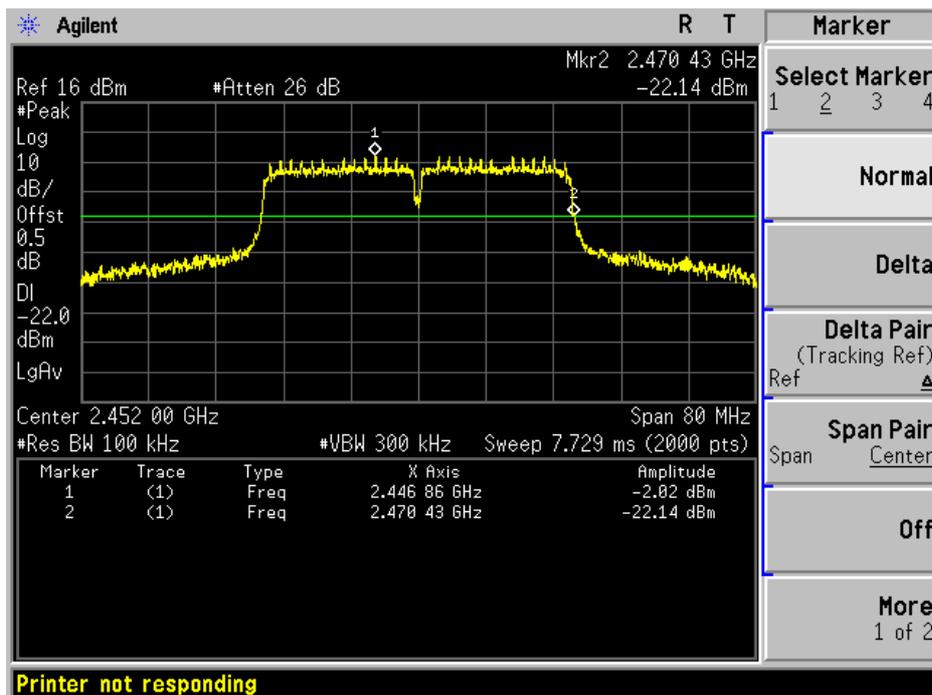


Product	: Home Gateway
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 4: Transmit at 802.11n (40MHz) (Chain 1)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

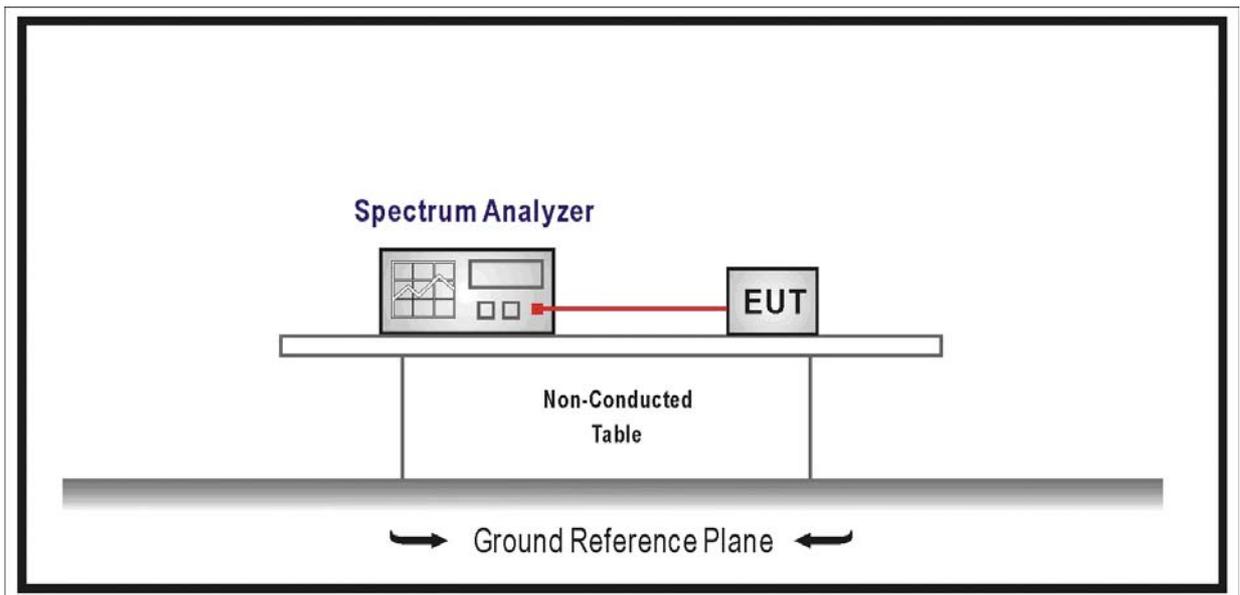
8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/31

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

8.2. Test Setup



8.3. Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.4. Test Procedure

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

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

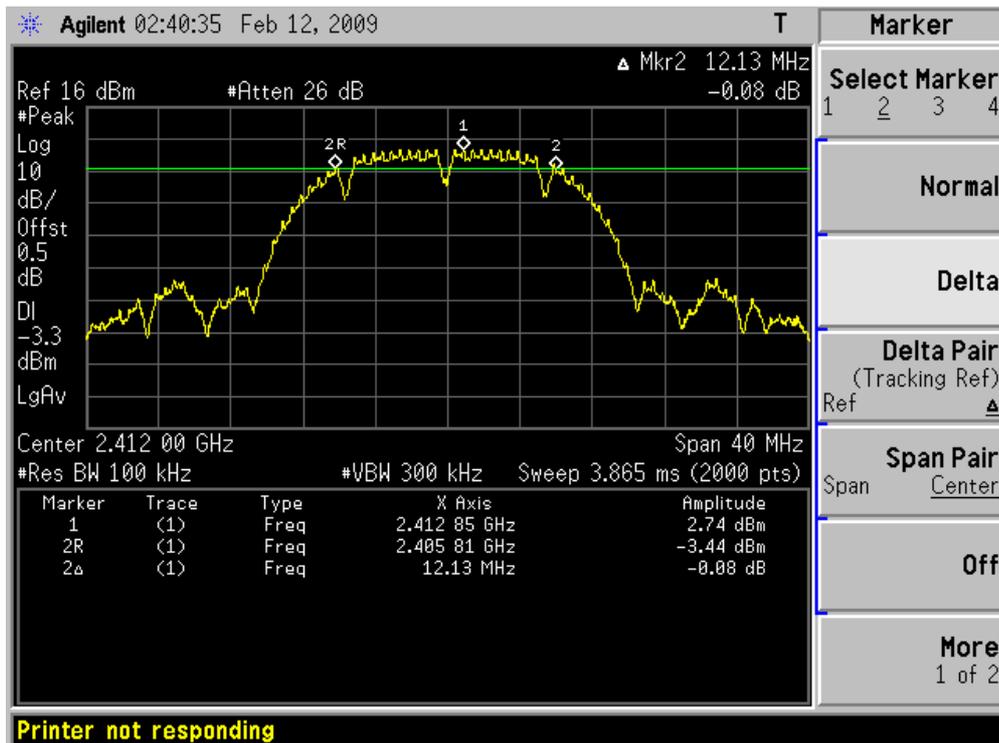
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

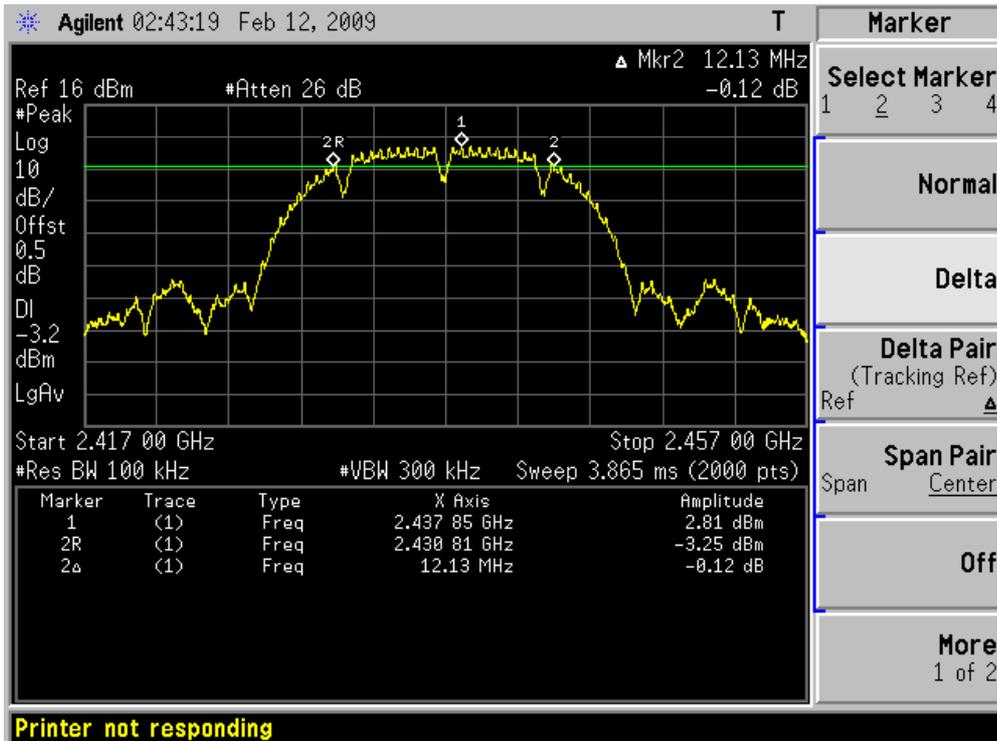
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12130	500	Pass
06	2437	12130	500	Pass
11	2462	12110	500	Pass

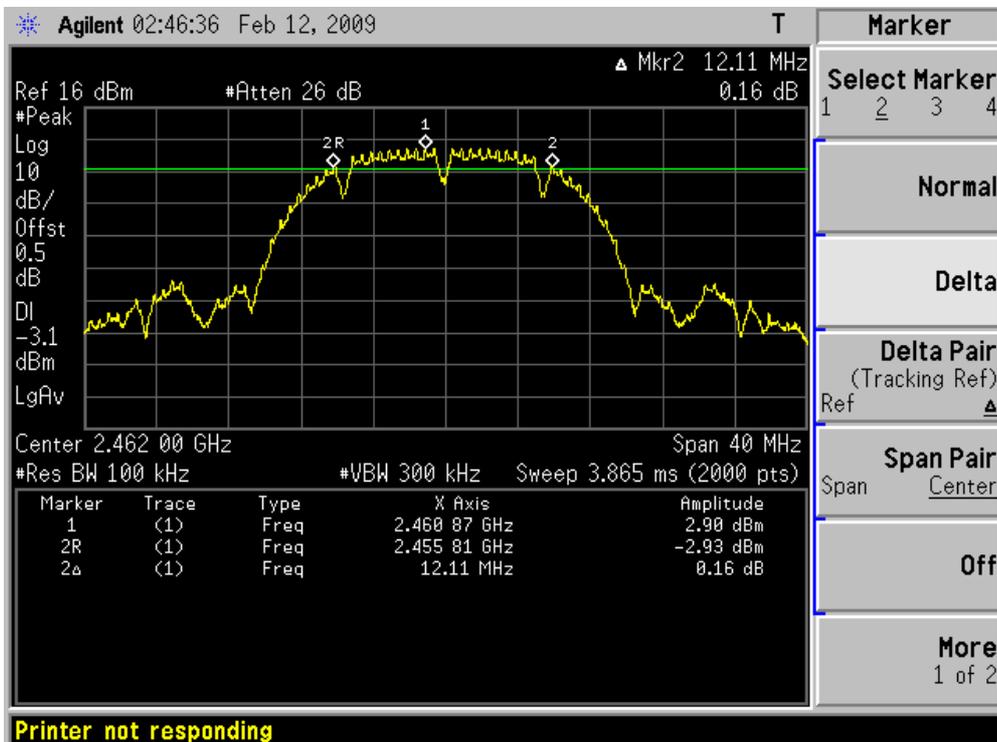
Channel 01 (2412MHz)



Channel 06 (2437MHz)



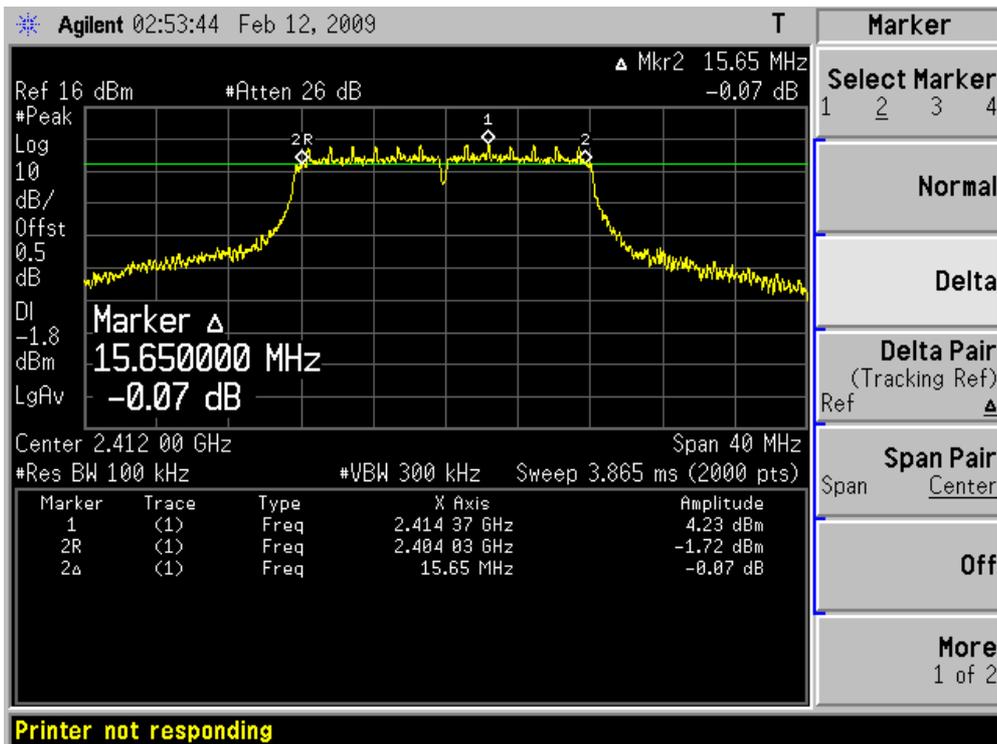
Channel 11 (2462MHz)



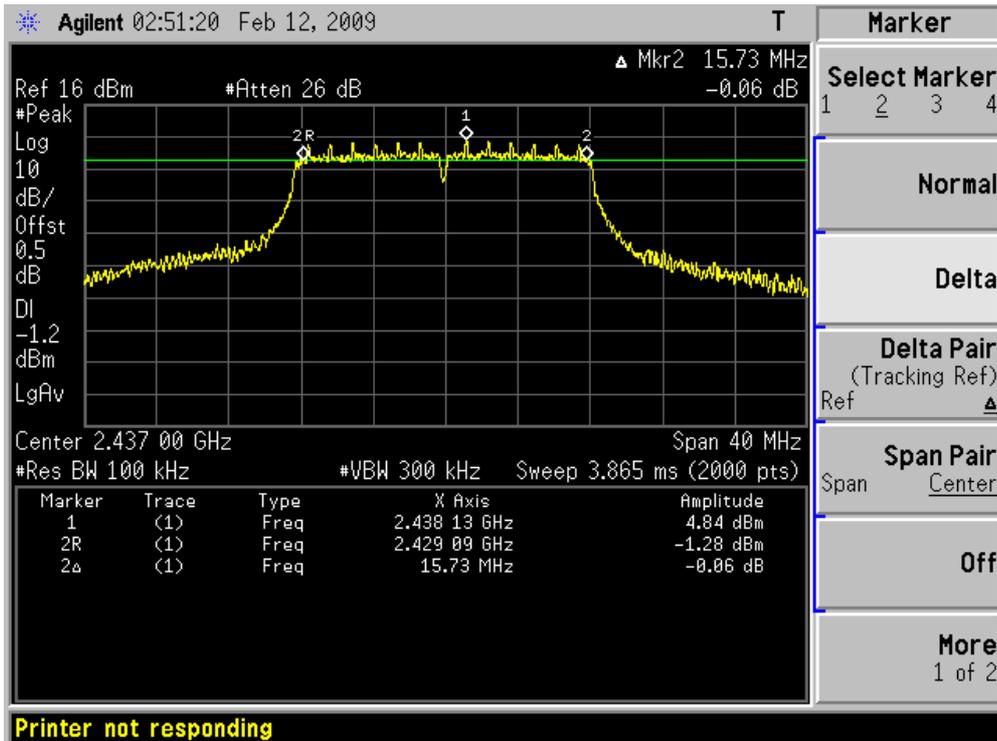
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15650	500	Pass
06	2437	15730	500	Pass
11	2462	15690	500	Pass

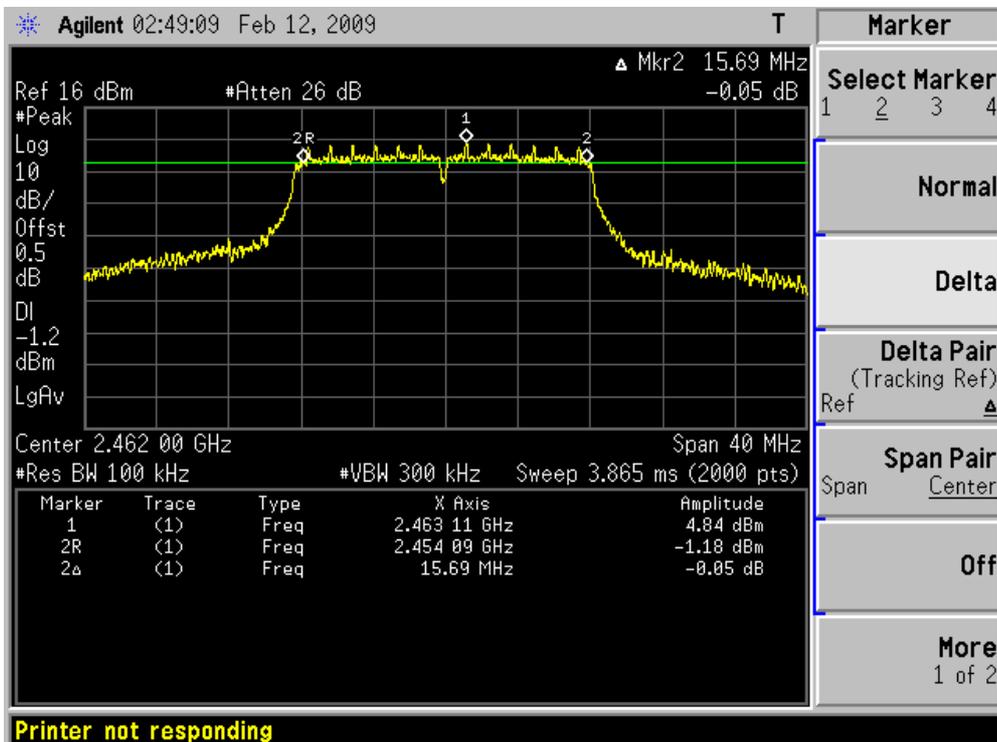
Channel 01 (2412MHz)



Channel 06 (2437MHz)



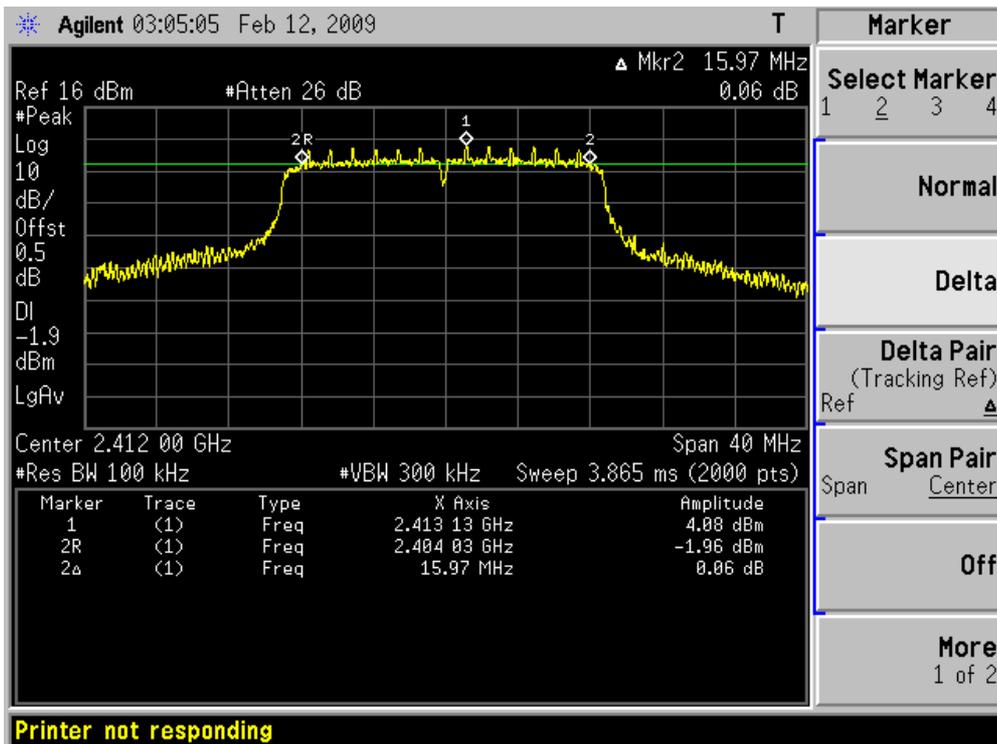
Channel 11 (2462MHz)



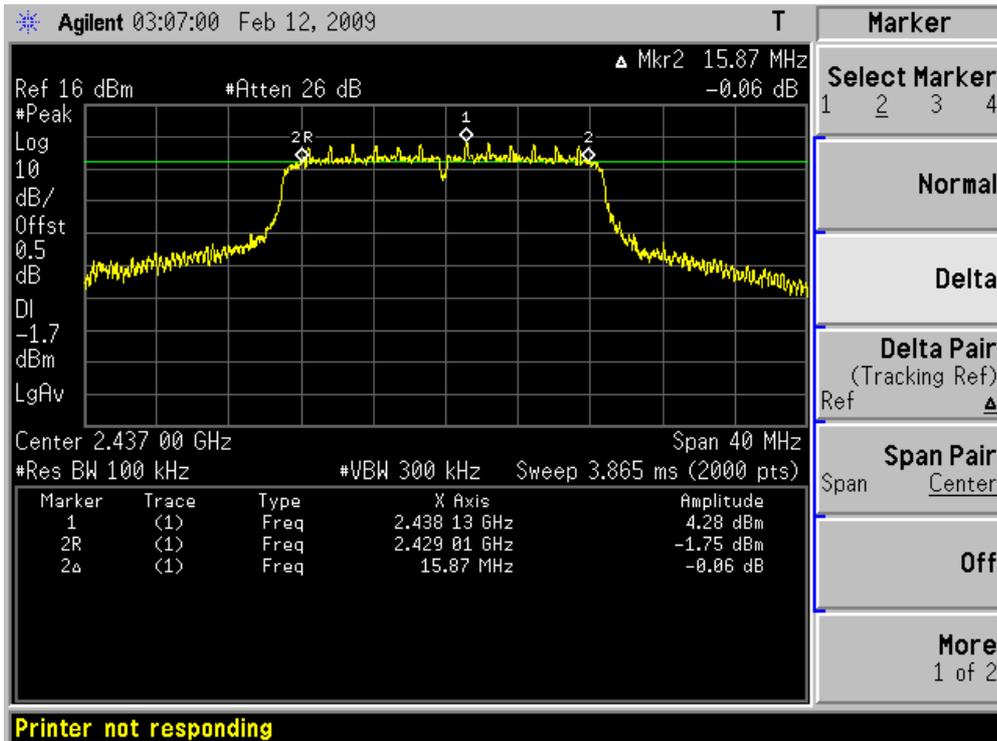
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15970	500	Pass
06	2437	15870	500	Pass
11	2462	15790	500	Pass

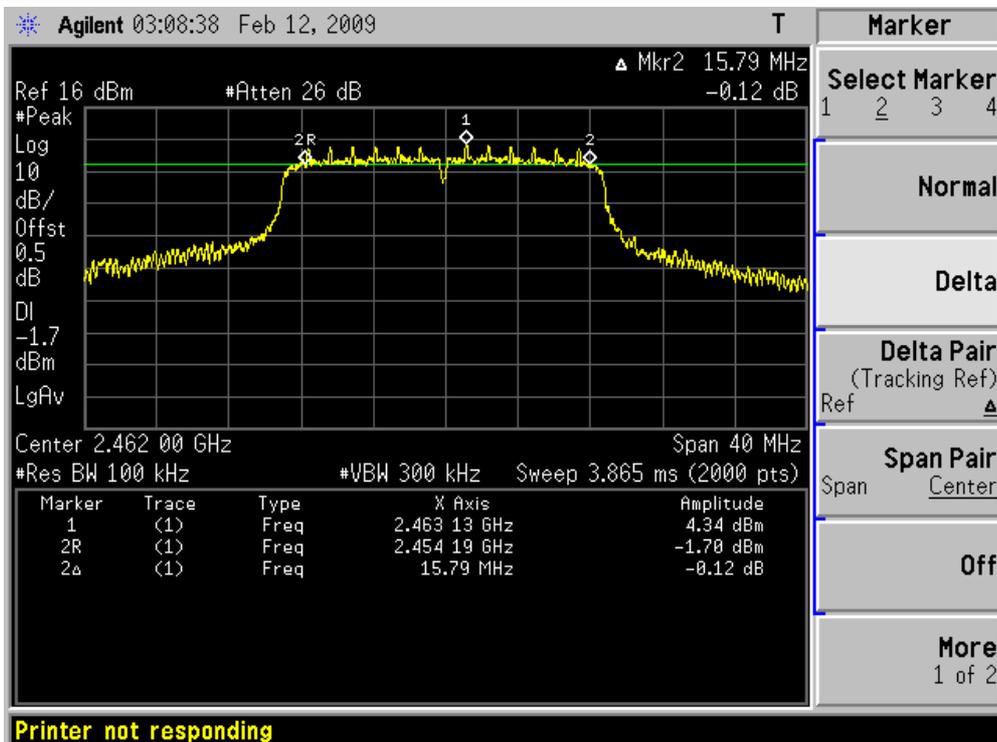
Channel 01 (2412MHz)



Channel 06 (2437MHz)



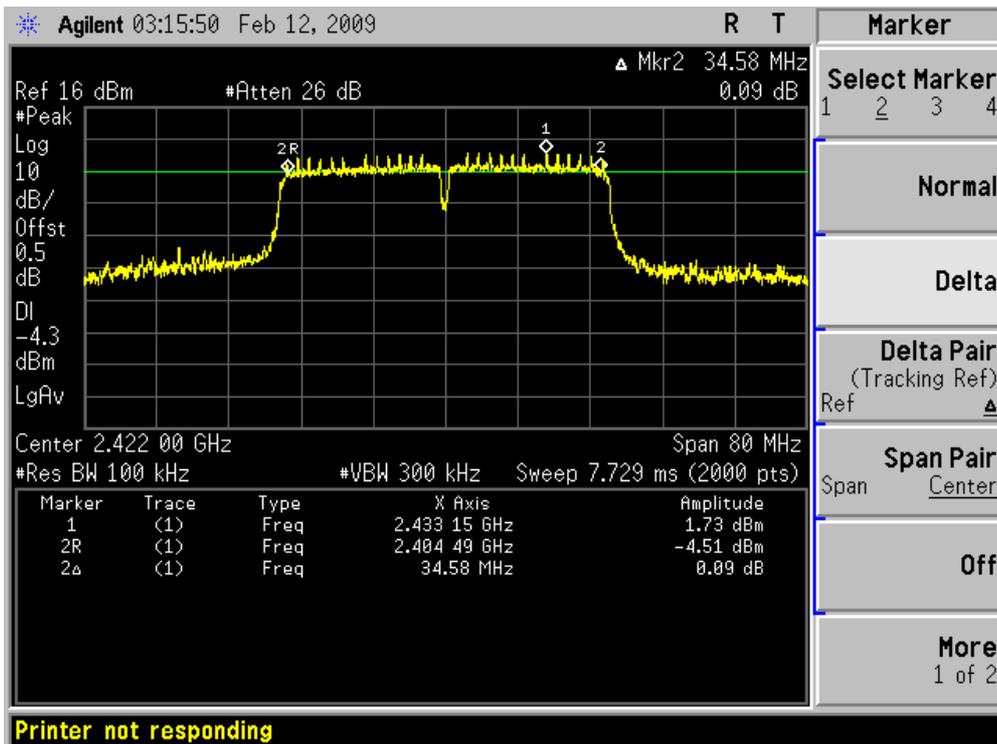
Channel 11 (2462MHz)



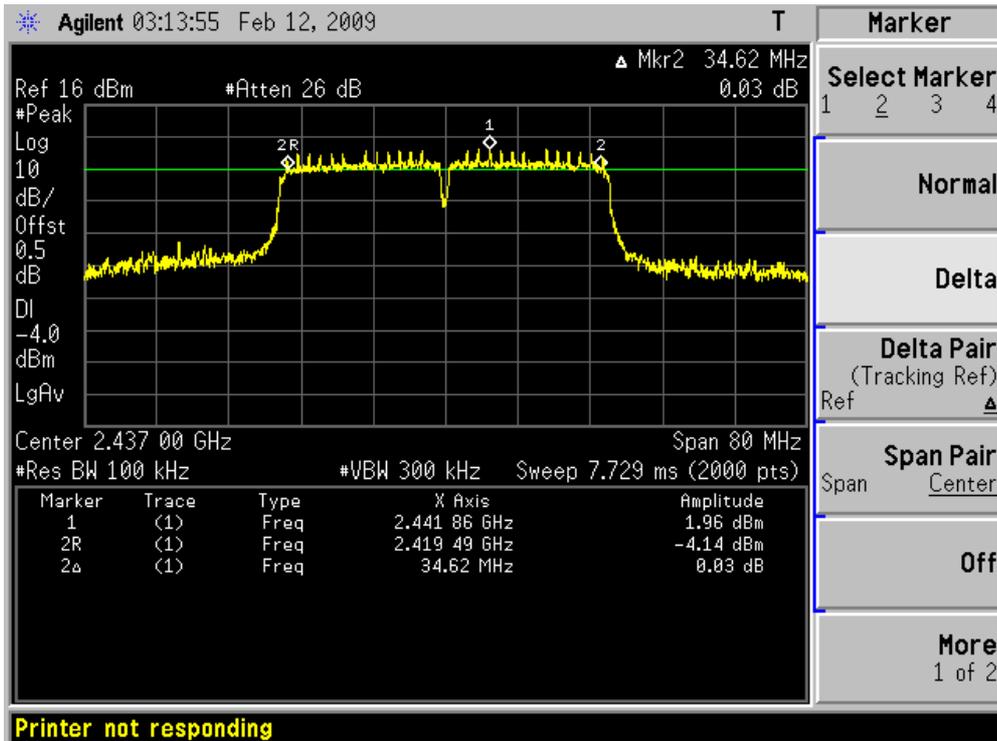
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	34580	500	Pass
06	2437	34620	500	Pass
09	2452	34500	500	Pass

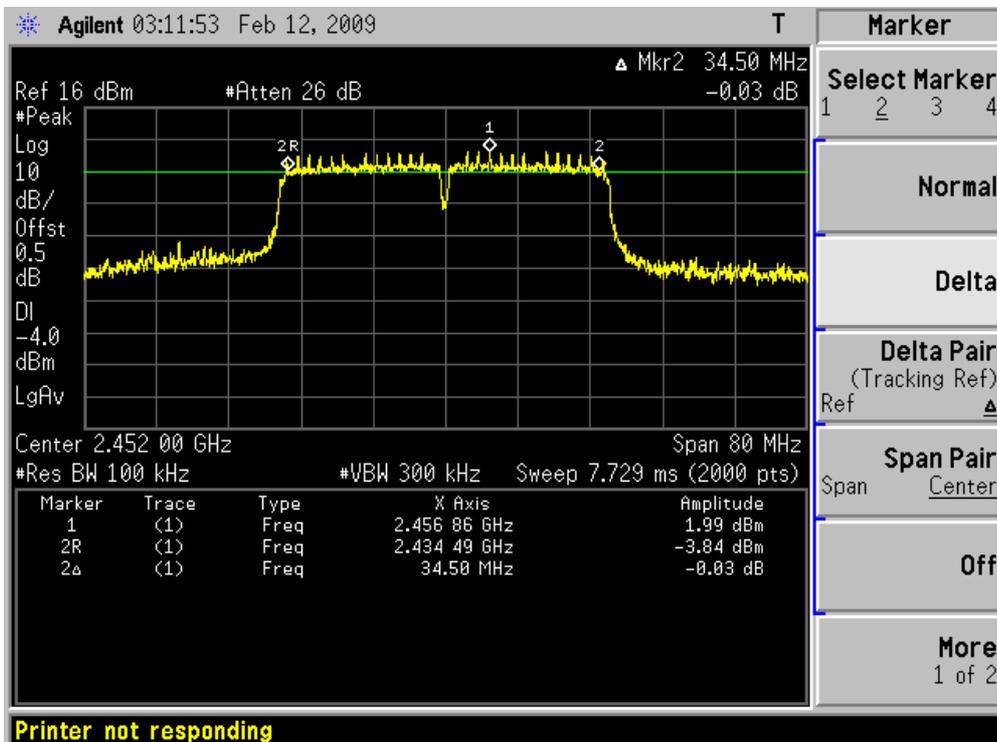
Channel 03 (2422MHz)



Channel 06 (2437MHz)



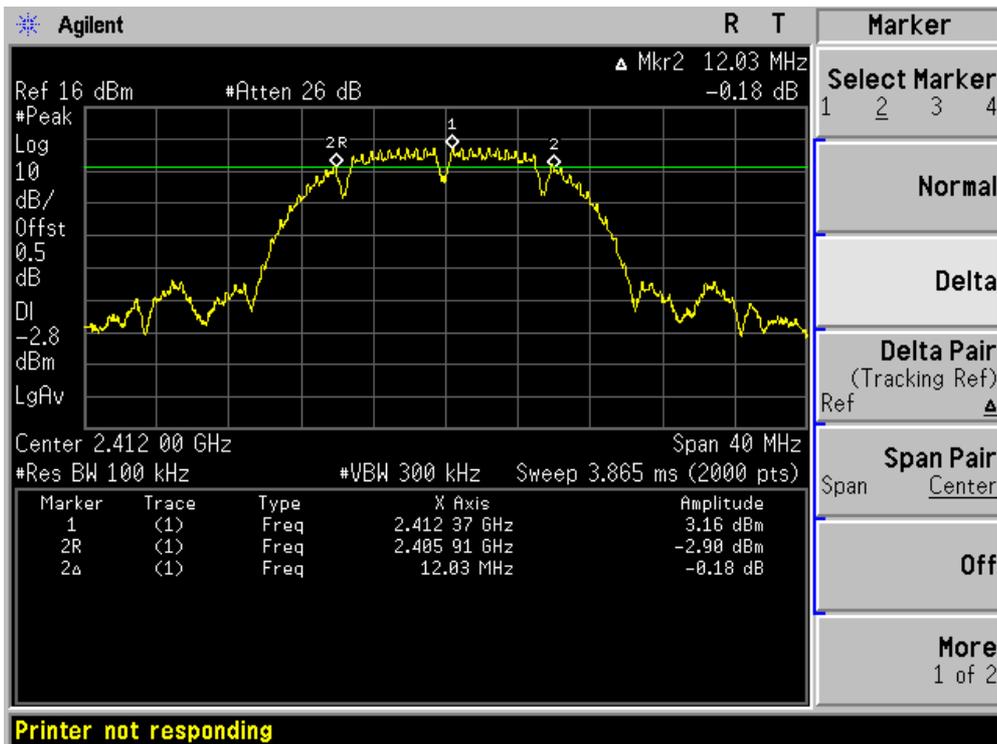
Channel 09 (2452MHz)



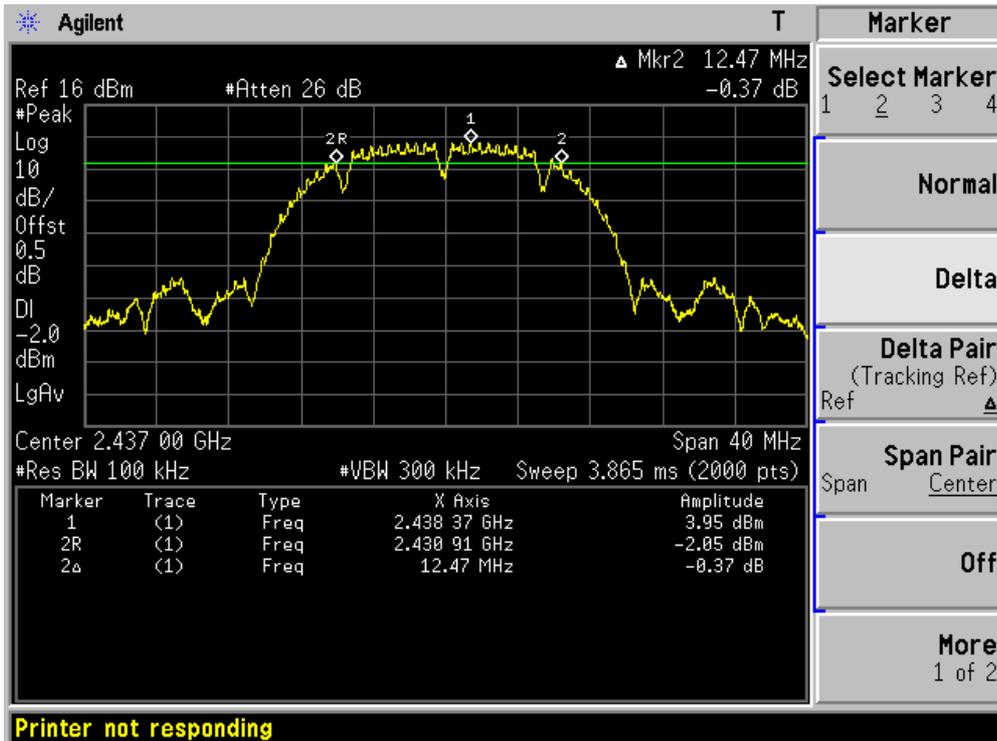
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12030	500	Pass
06	2437	12470	500	Pass
11	2462	12010	500	Pass

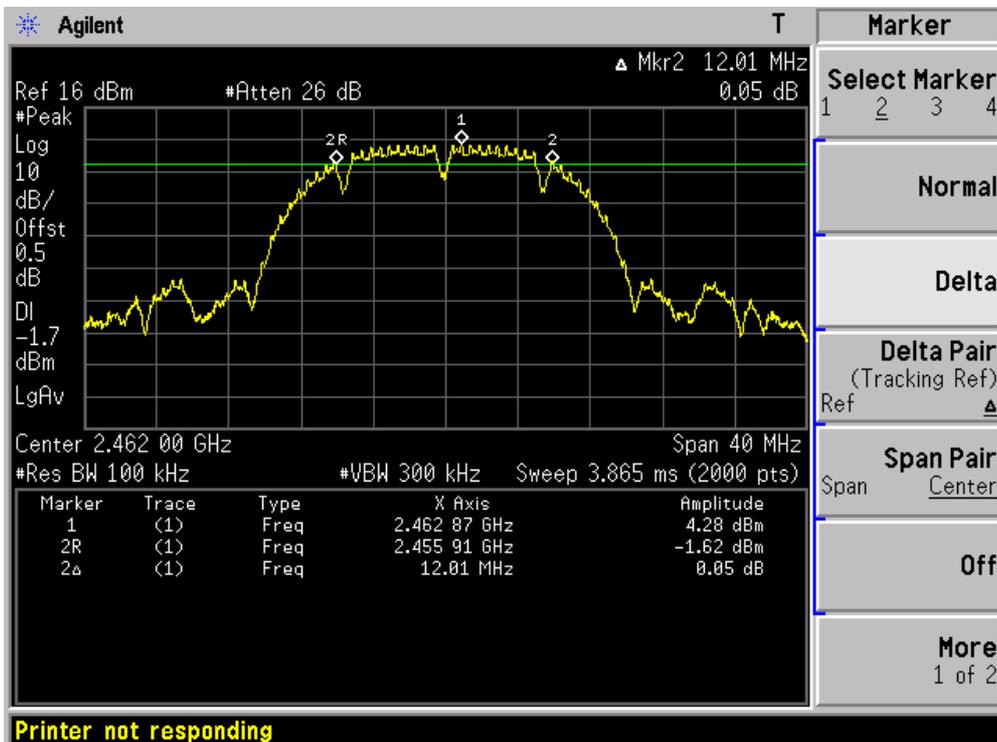
Channel 01 (2412MHz)



Channel 06 (2437MHz)



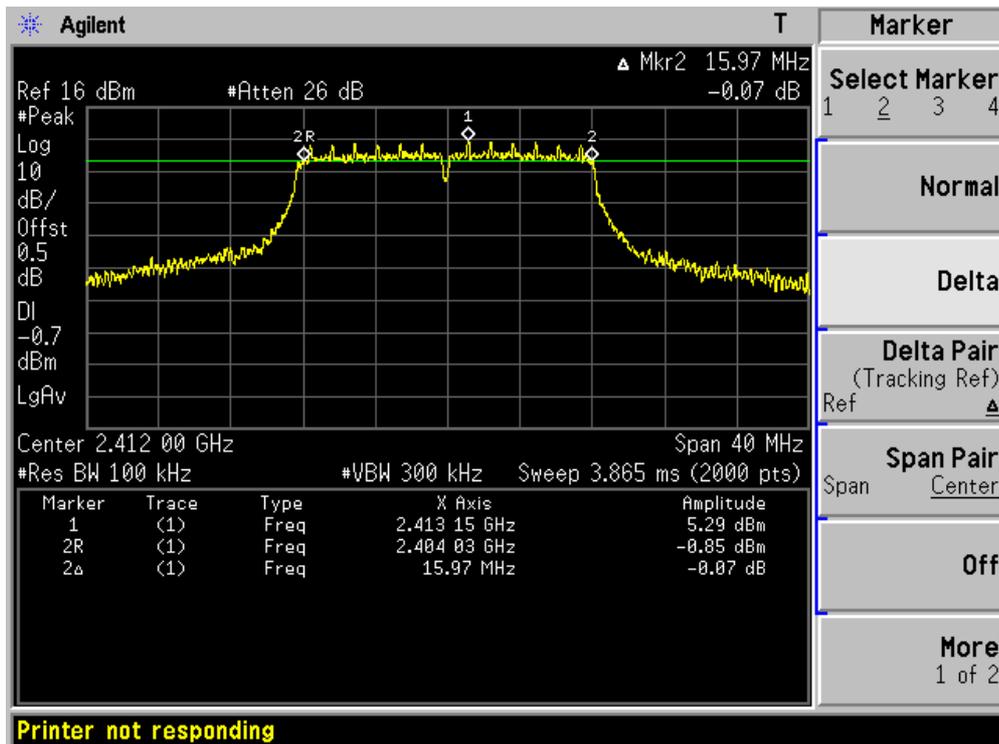
Channel 11 (2462MHz)



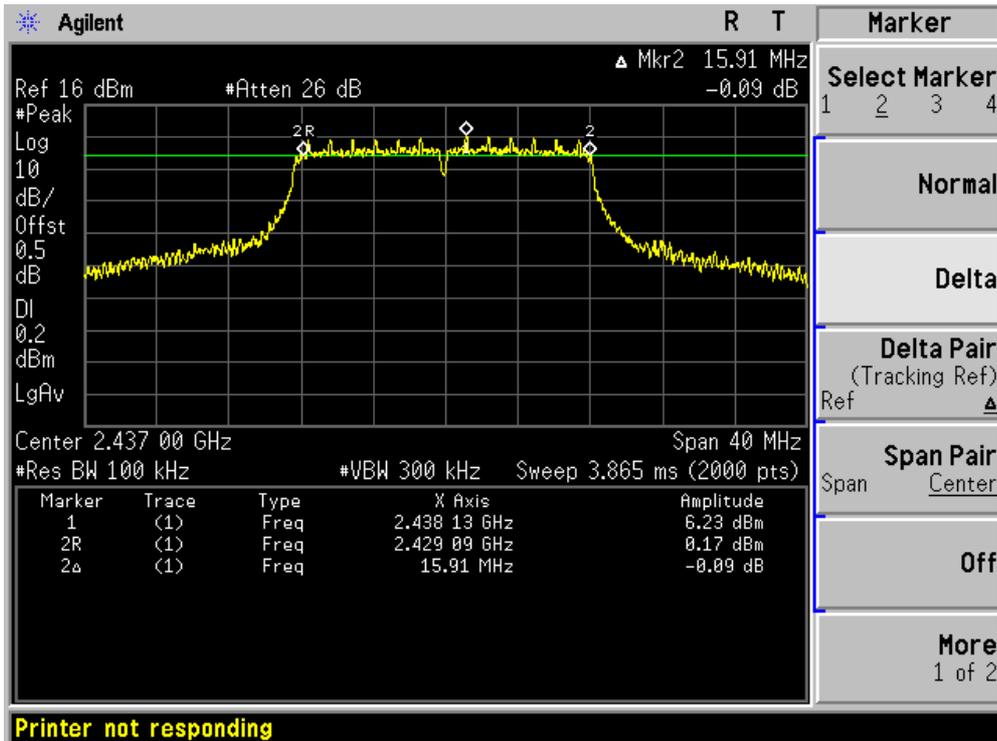
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15970	500	Pass
06	2437	15910	500	Pass
11	2462	15770	500	Pass

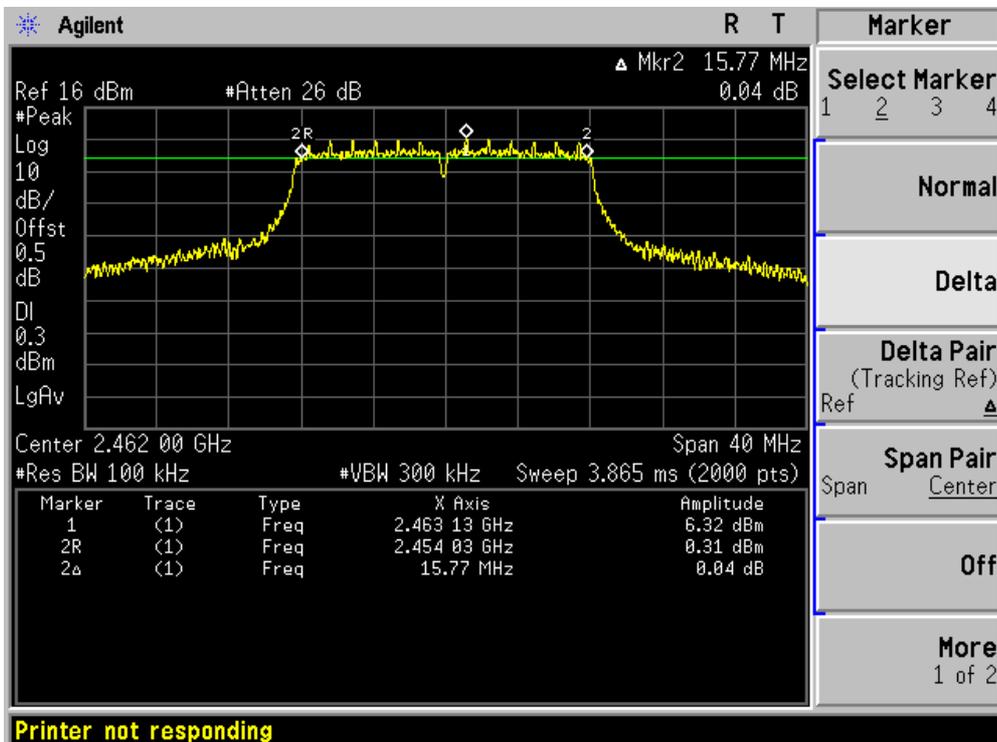
Channel 01 (2412MHz)



Channel 06 (2437MHz)



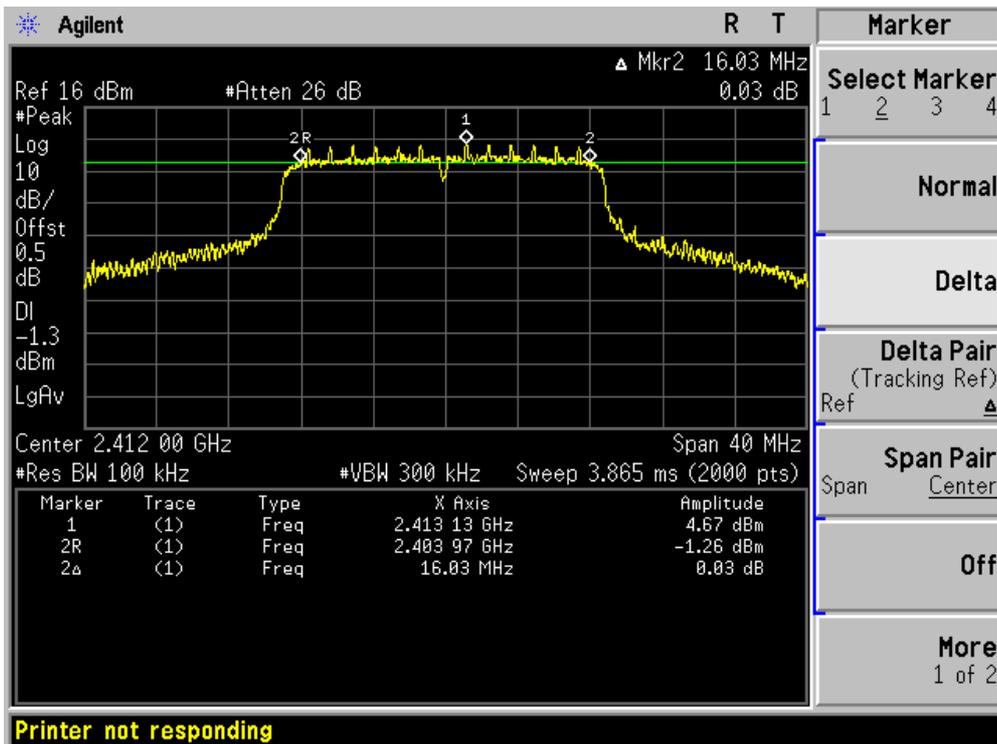
Channel 11 (2462MHz)



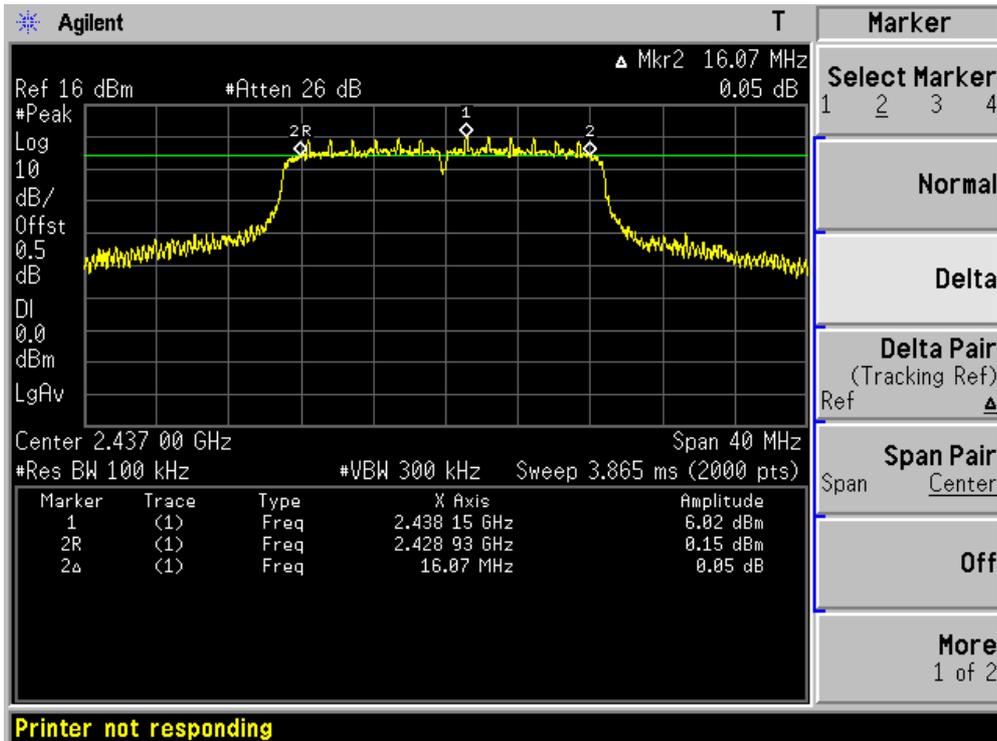
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16030	500	Pass
06	2437	16070	500	Pass
11	2462	16030	500	Pass

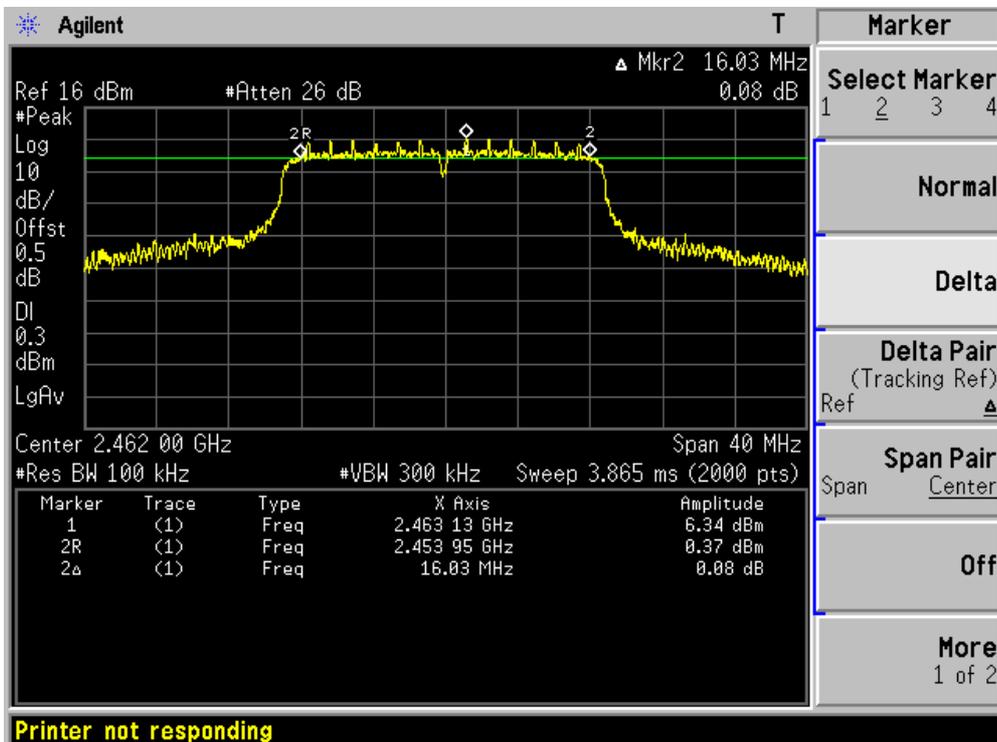
Channel 01 (2412MHz)



Channel 06 (2437MHz)



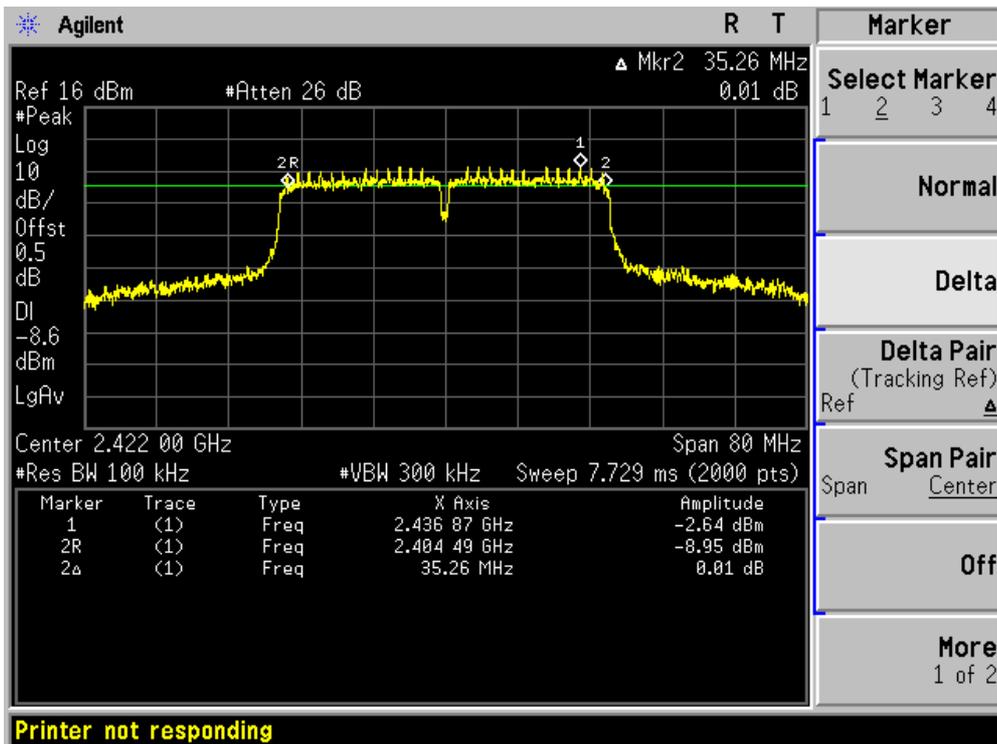
Channel 11 (2462MHz)



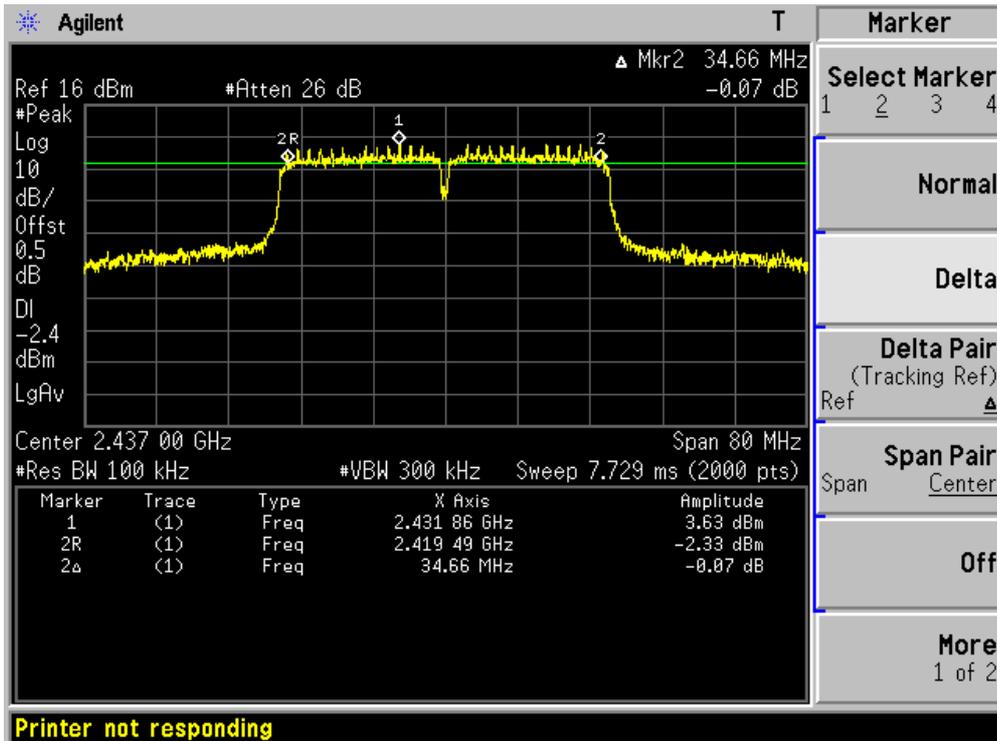
Product	:	Home Gateway
Test Item	:	Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	35260	500	Pass
06	2437	34660	500	Pass
09	2452	34660	500	Pass

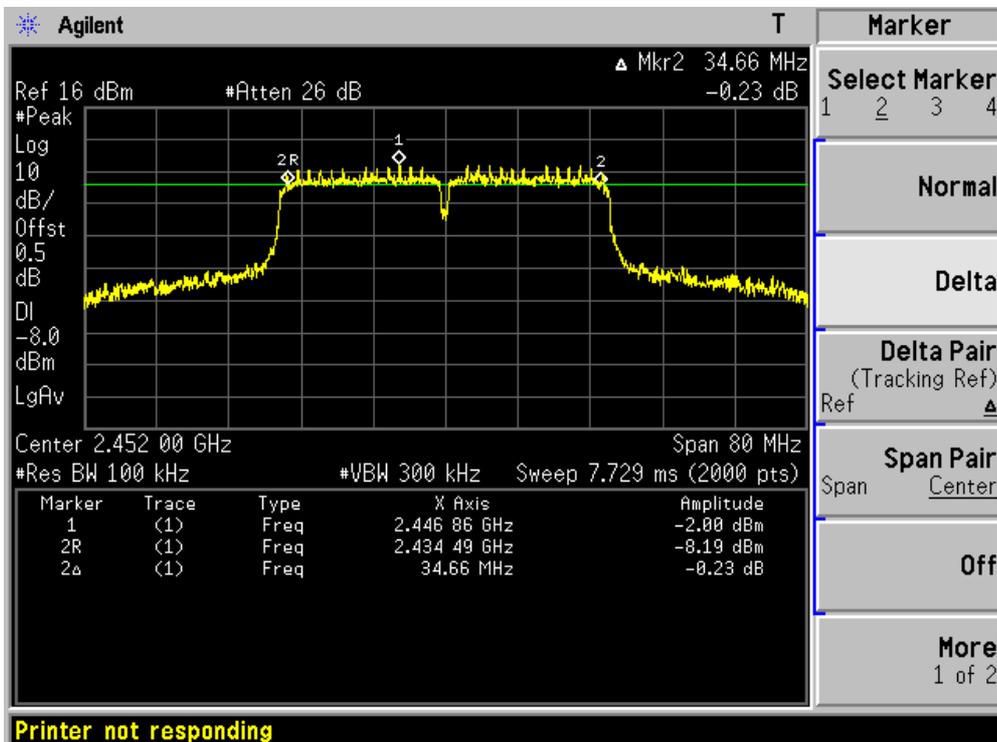
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

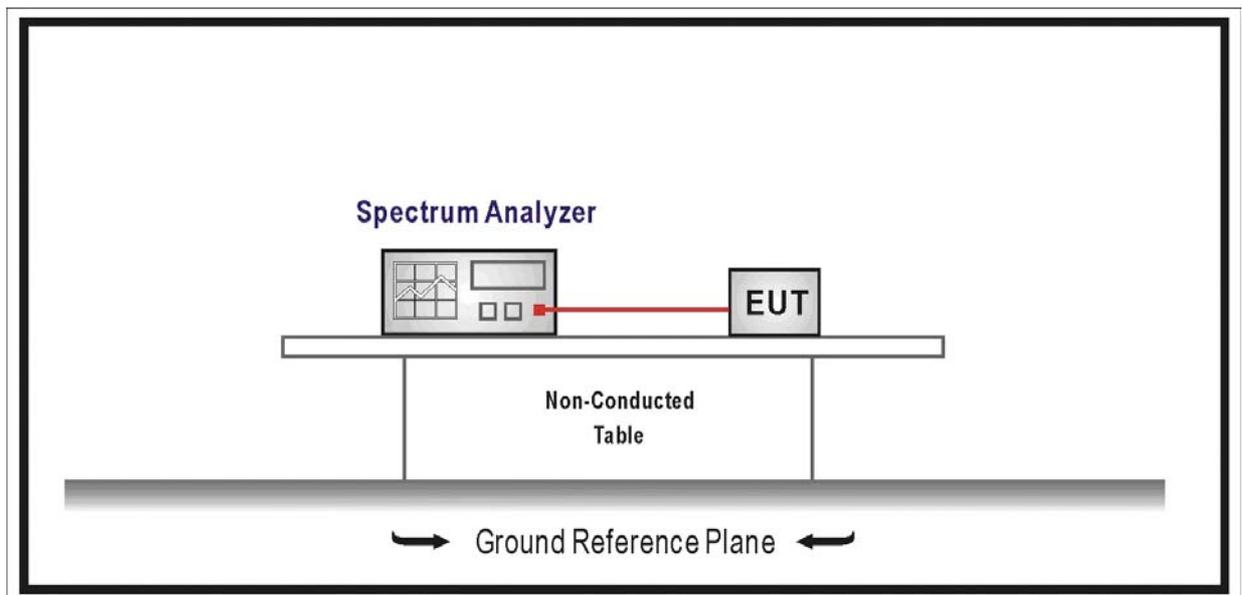
9.1. Test Equipment

Power Output / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2009/02/12
Power Sensor	Anritsu	MA2411B	0846014	2009/01/12
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

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

9.2. Test Setup



9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

9.4. Test Procedure

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

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

Use the wideband power meter to test peak power and record the result.

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b(Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
1	2412	16.12	N/A	0.5	16.62	30.00	Pass
6	2437	16.00	N/A	0.5	16.50	30.00	Pass
11	2462	16.16	N/A	0.5	16.66	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b(Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
1	2412	N/A	16.44	0.5	16.94	30.00	Pass
6	2437	N/A	17.25	0.5	17.75	30.00	Pass
11	2462	N/A	17.22	0.5	17.72	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g(Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
1	2412	20.86	N/A	0.5	21.36	30.00	Pass
6	2437	21.01	N/A	0.5	21.51	30.00	Pass
11	2462	21.11	N/A	0.5	21.61	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g(Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
1	2412	N/A	21.55	0.5	22.05	30.00	Pass
6	2437	N/A	22.27	0.5	22.77	30.00	Pass
11	2462	N/A	21.88	0.5	22.38	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	17.00	0.5	17.50	30.00	Pass
6	2437	20.82	0.5	21.32	30.00	Pass
11	2462	20.09	0.5	20.59	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	17.62	0.5	18.12	30.00	Pass
6	2437	22.28	0.5	22.78	30.00	Pass
11	2462	19.65	0.5	20.15	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
1	2412	17.00	17.62	0.5	20.83	30.00	Pass
6	2437	20.82	22.28	0.5	25.12	30.00	Pass
11	2462	20.09	19.65	0.5	23.38	30.00	Pass

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

For example: Total Power = $10 \cdot \log (10^{(17.00/10)} + 10^{(17.62/10)}) + 0.5 = 20.83$

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
3	2422	15.63	0.5	16.13	30.00	Pass
6	2437	19.16	0.5	19.66	30.00	Pass
9	2452	18.69	0.5	19.19	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
3	2422	16.80	0.5	17.30	30.00	Pass
6	2437	21.38	0.5	21.88	30.00	Pass
9	2452	18.43	0.5	18.93	30.00	Pass

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

Product	:	Home Gateway
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
		Chain 0	Chain 1				
3	2422	15.63	16.80	0.5	19.76	30.00	Pass
6	2437	19.16	21.38	0.5	23.92	30.00	Pass
9	2452	18.69	18.43	0.5	22.07	30.00	Pass

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

For example: Total Power = $10 \cdot \log (10^{(15.63/10)} + 10^{(16.80/10)}) + 0.5 = 19.76$

10. Power Spectral Density

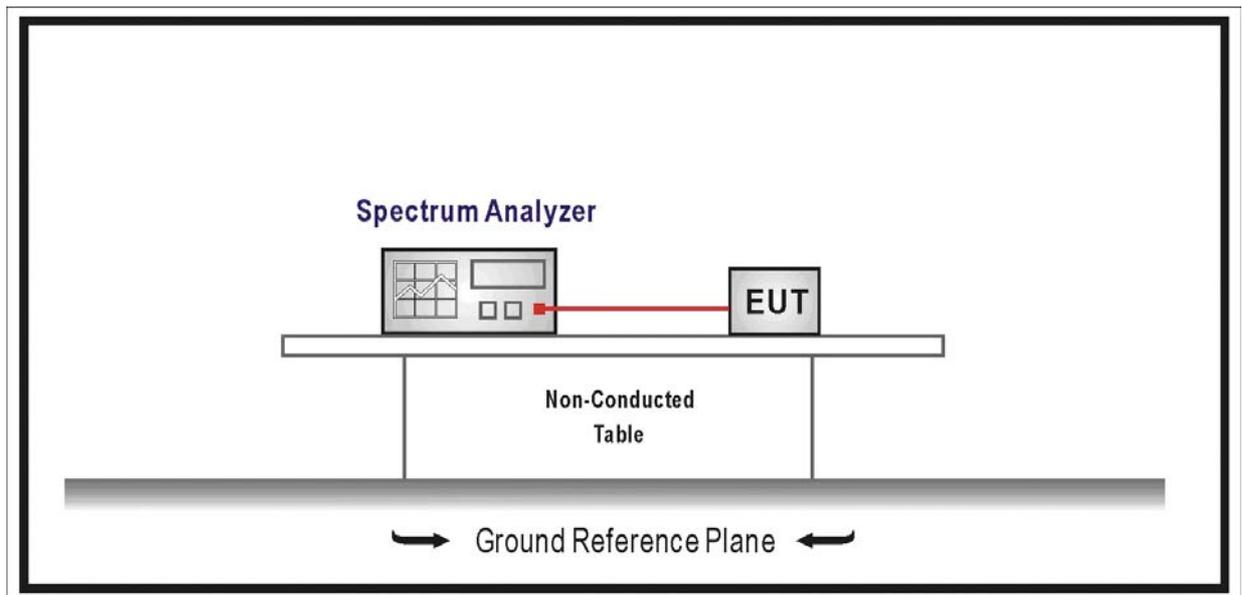
10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2009/05/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/31

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=100s, Set detector=Peak detector.

10.5. Uncertainty

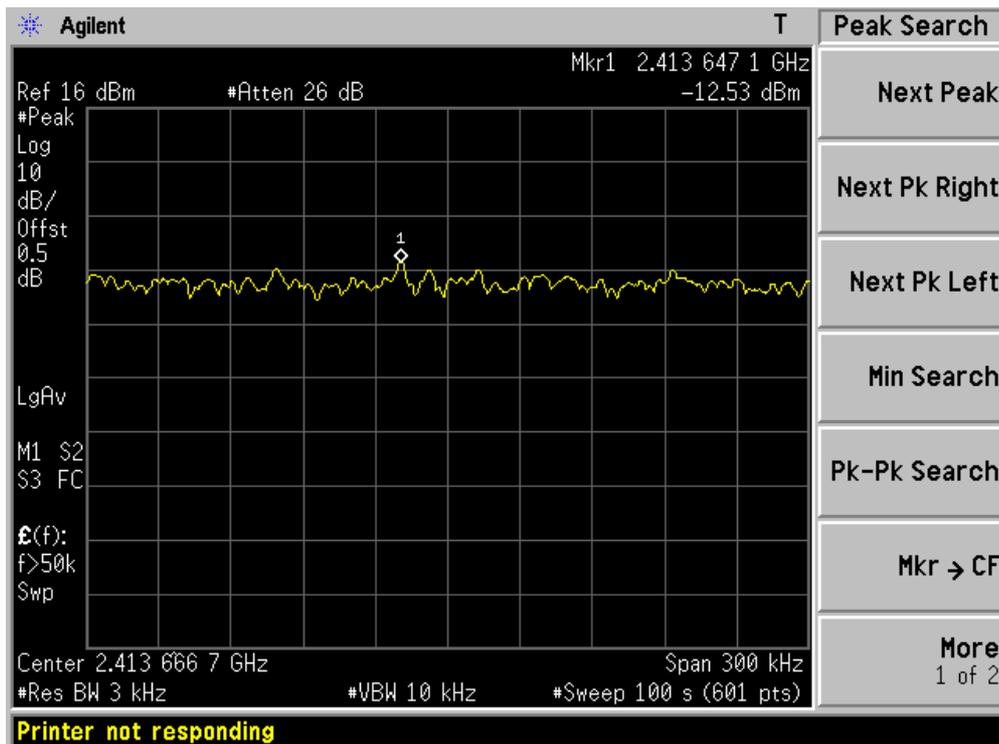
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

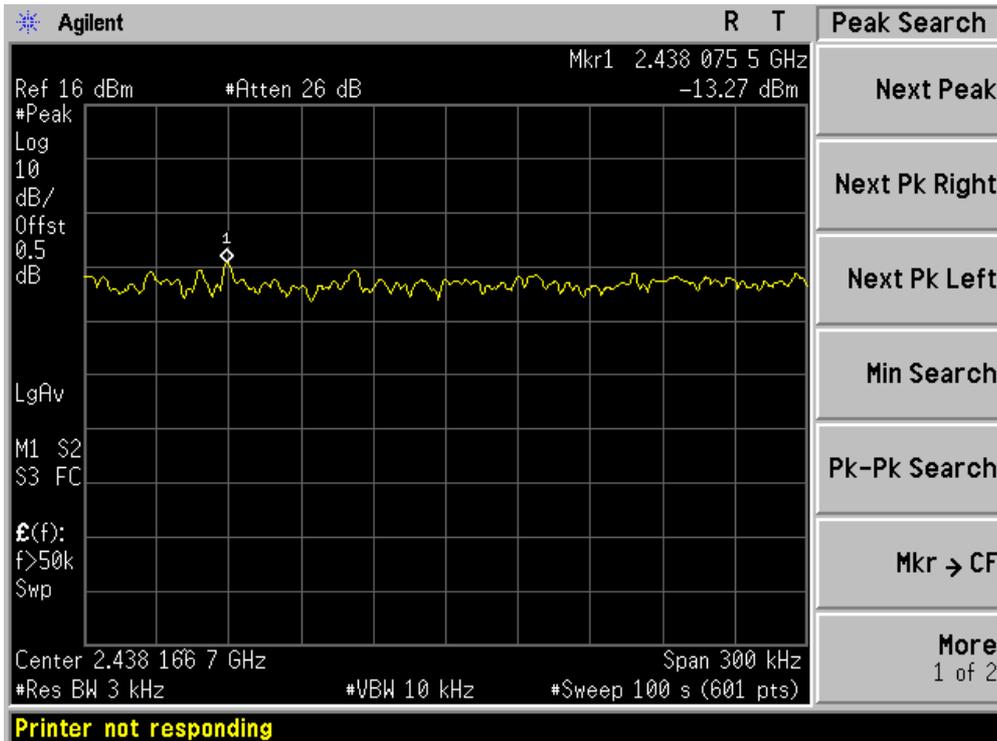
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	-12.53	N/A	-12.53	8	Pass
06	2437	-13.27	N/A	-13.27	8	Pass
11	2462	-14.52	N/A	-14.52	8	Pass

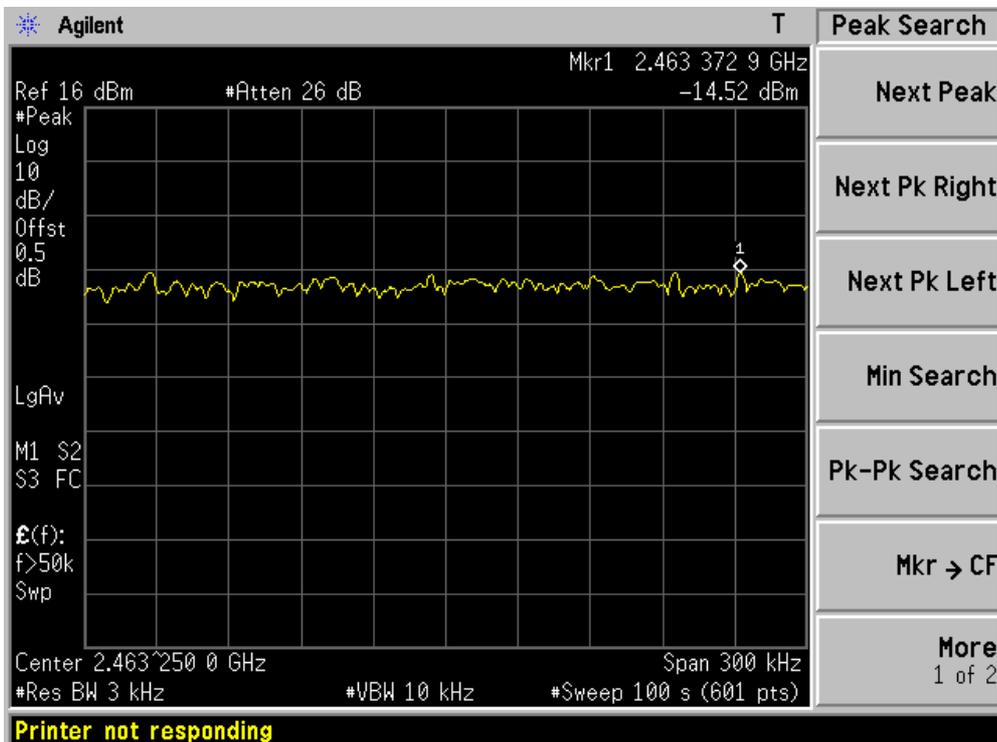
Channel 01 (2412MHz)



Channel 06 (2437MHz)



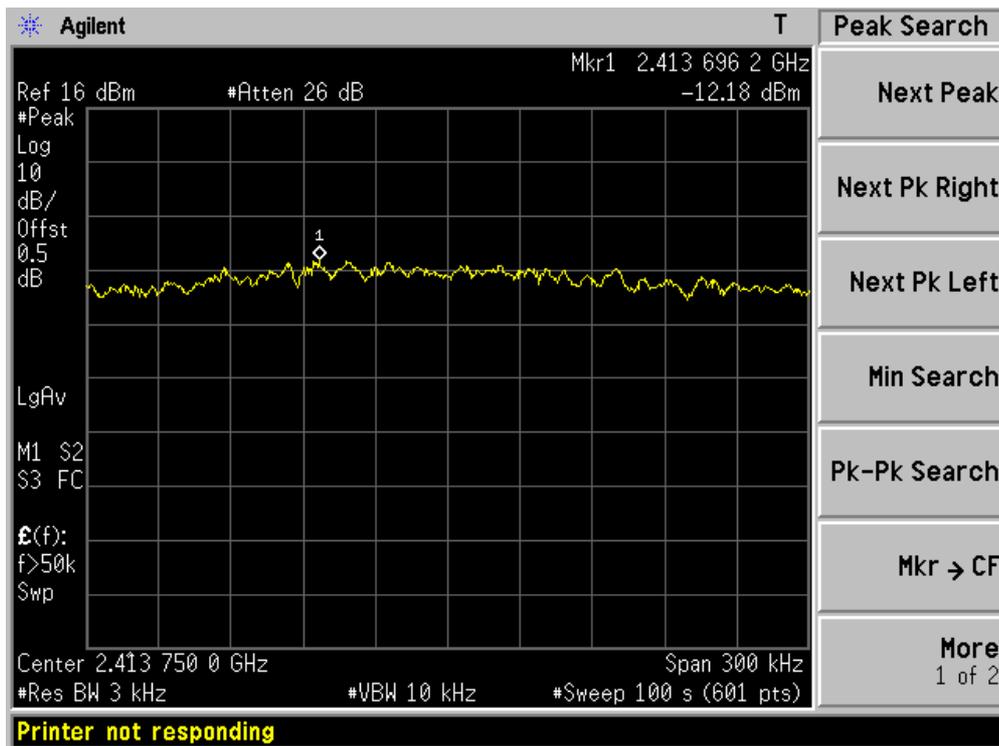
Channel 11 (2462MHz)



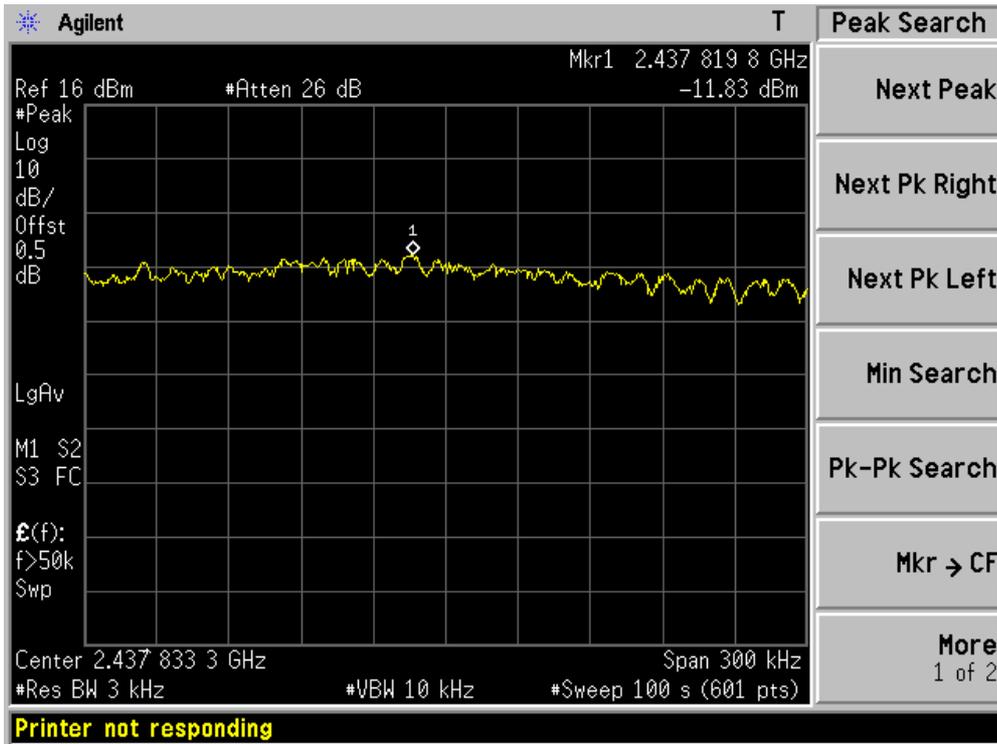
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	-12.18	N/A	-12.18	8	Pass
06	2437	-11.83	N/A	-11.83	8	Pass
11	2462	-12.69	N/A	-12.69	8	Pass

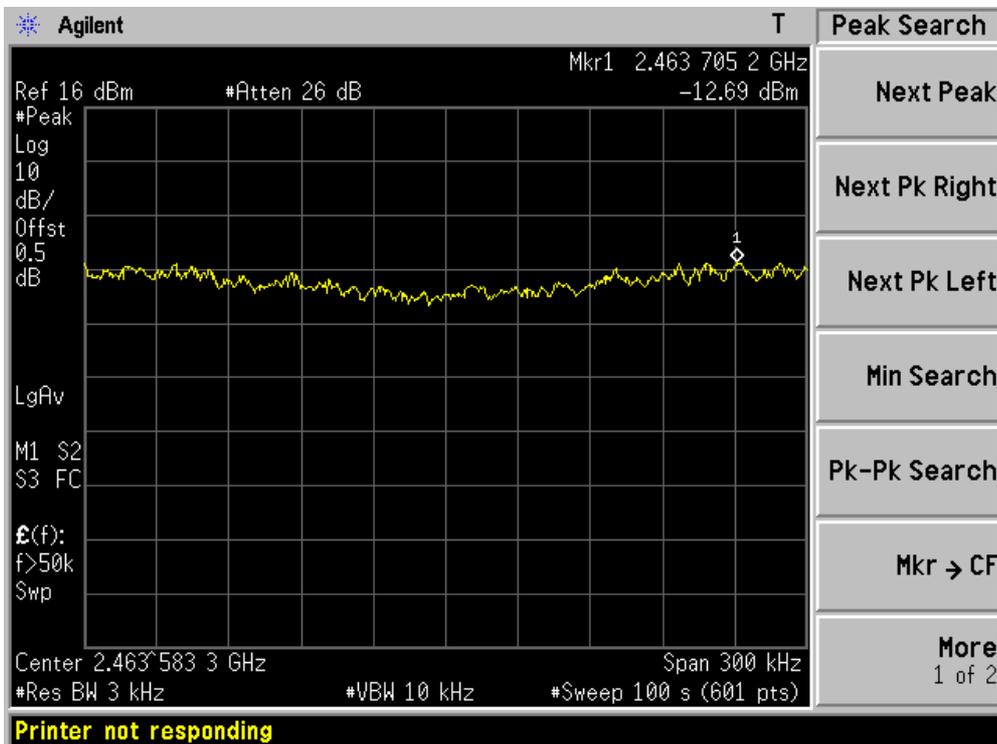
Channel 01 (2412MHz)



Channel 06 (2437MHz)



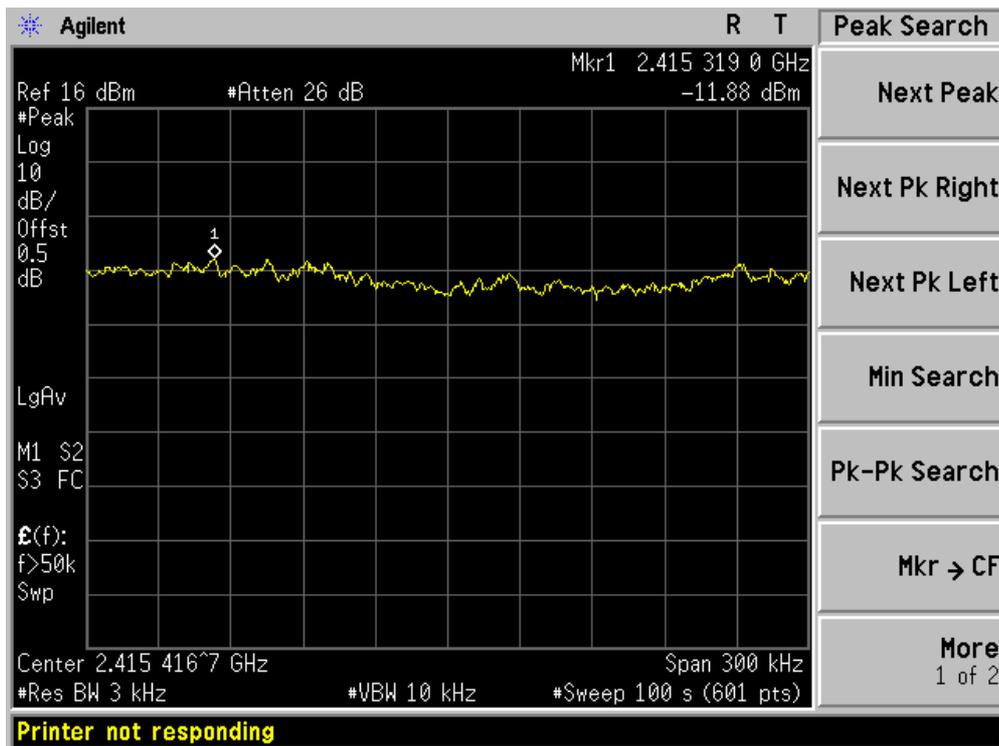
Channel 11 (2462MHz)



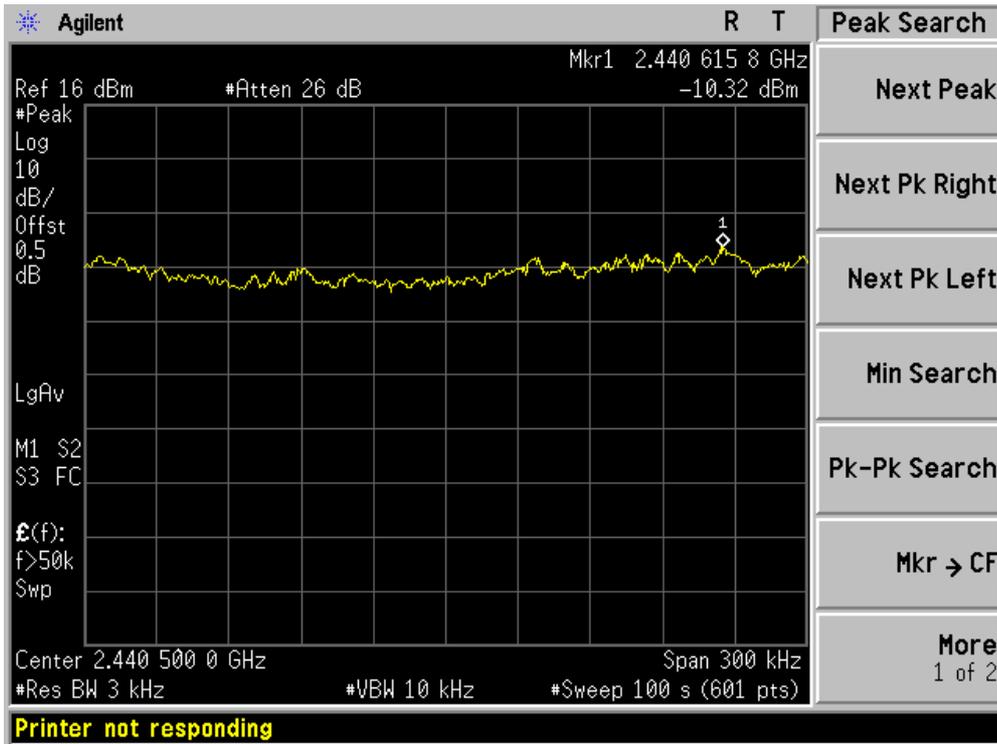
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	-11.88	N/A	-11.88	8	Pass
06	2437	-10.32	N/A	-10.32	8	Pass
11	2462	-11.27	N/A	-11.27	8	Pass

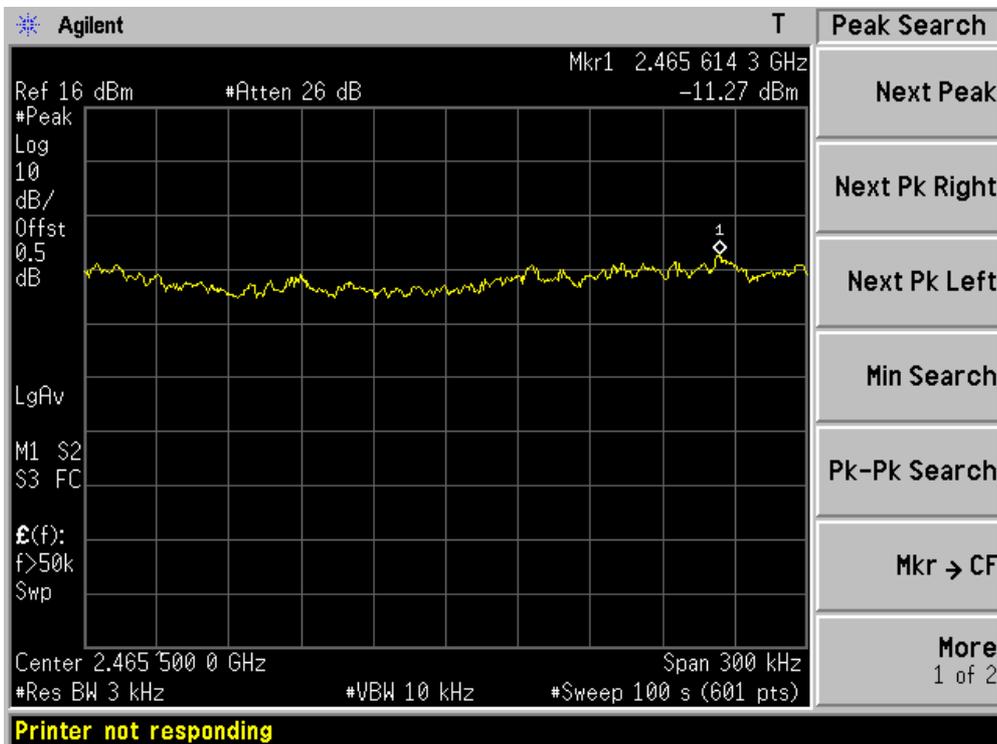
Channel 01 (2412MHz)



Channel 06 (2437MHz)



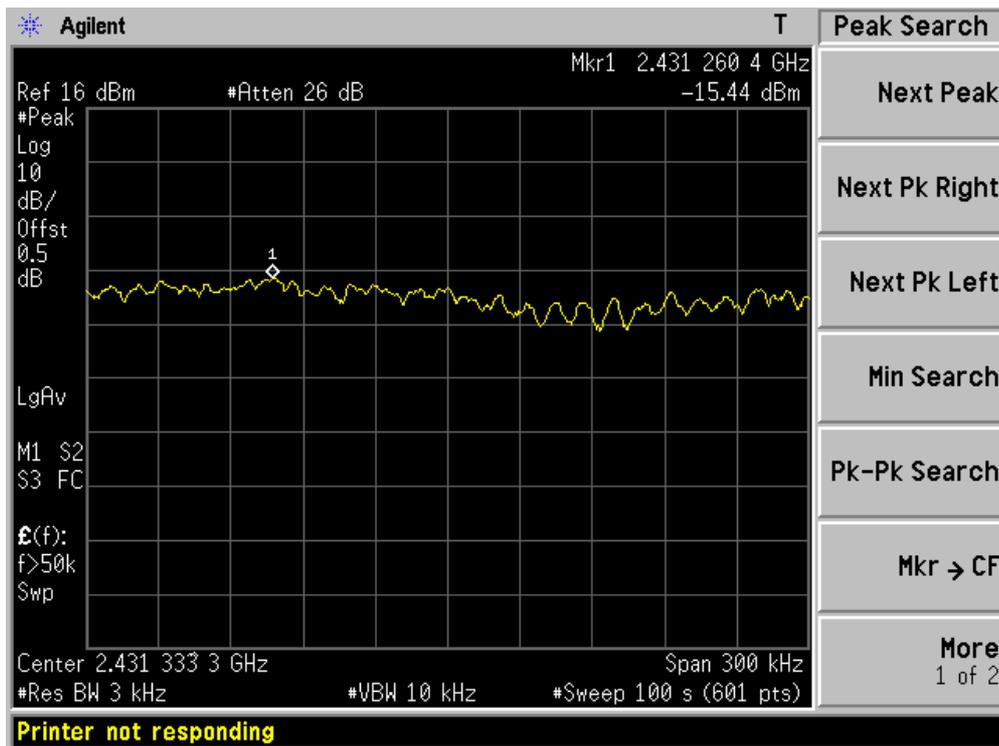
Channel 11 (2462MHz)



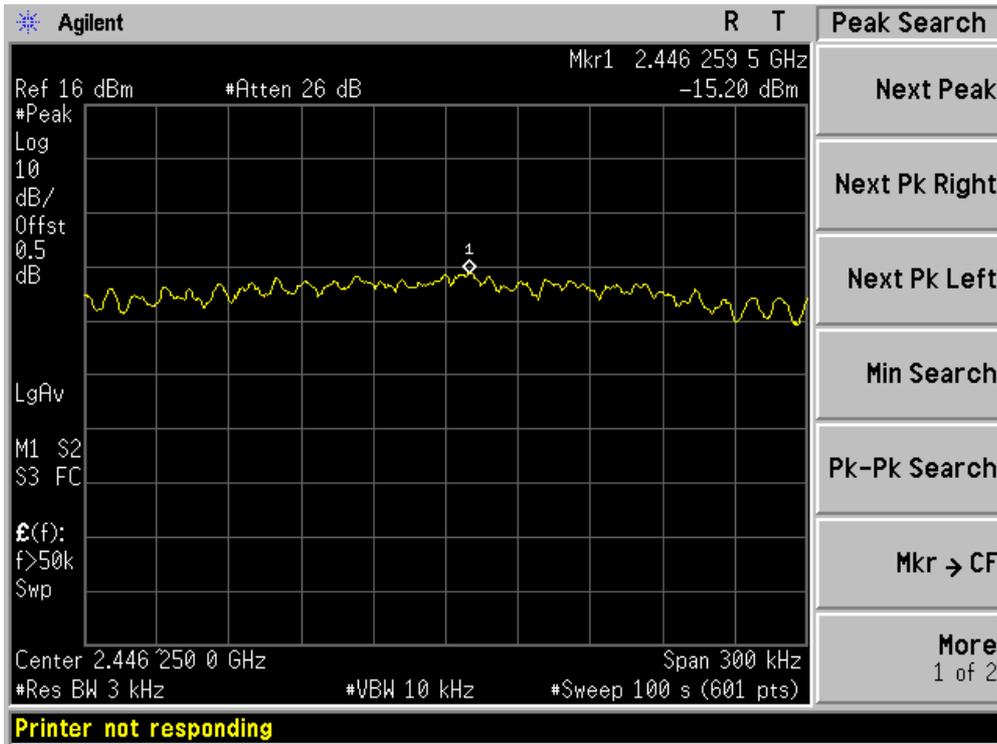
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
03	2422	-15.44	N/A	-15.44	8	Pass
06	2437	-15.20	N/A	-15.20	8	Pass
09	2452	-15.26	N/A	-15.26	8	Pass

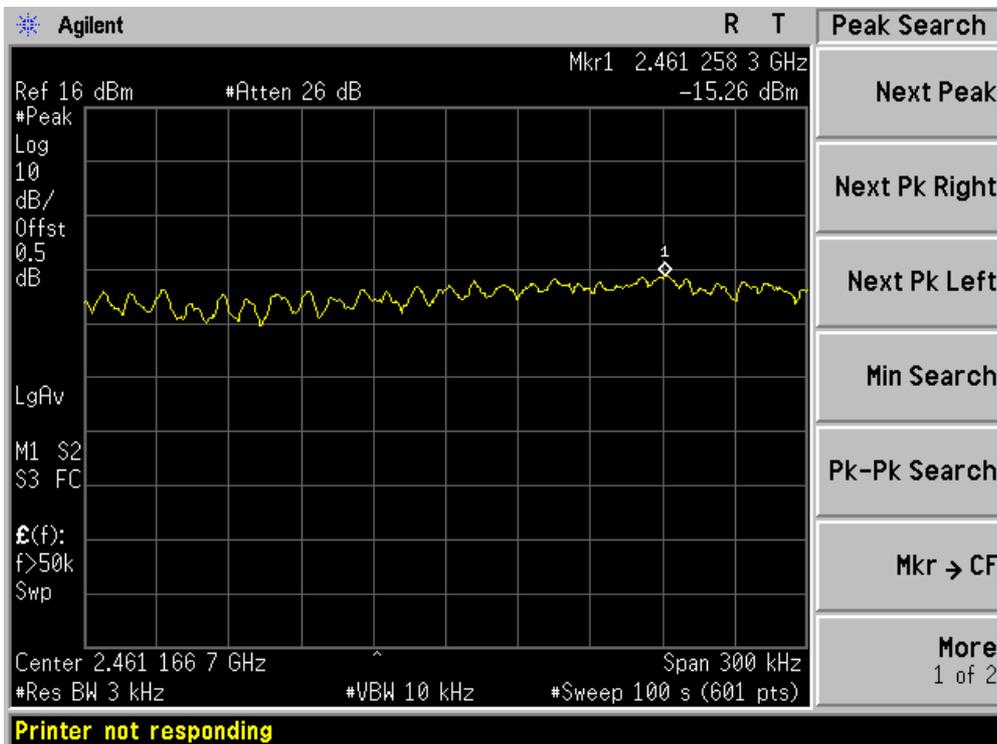
Channel 03 (2422MHz)



Channel 06 (2437MHz)



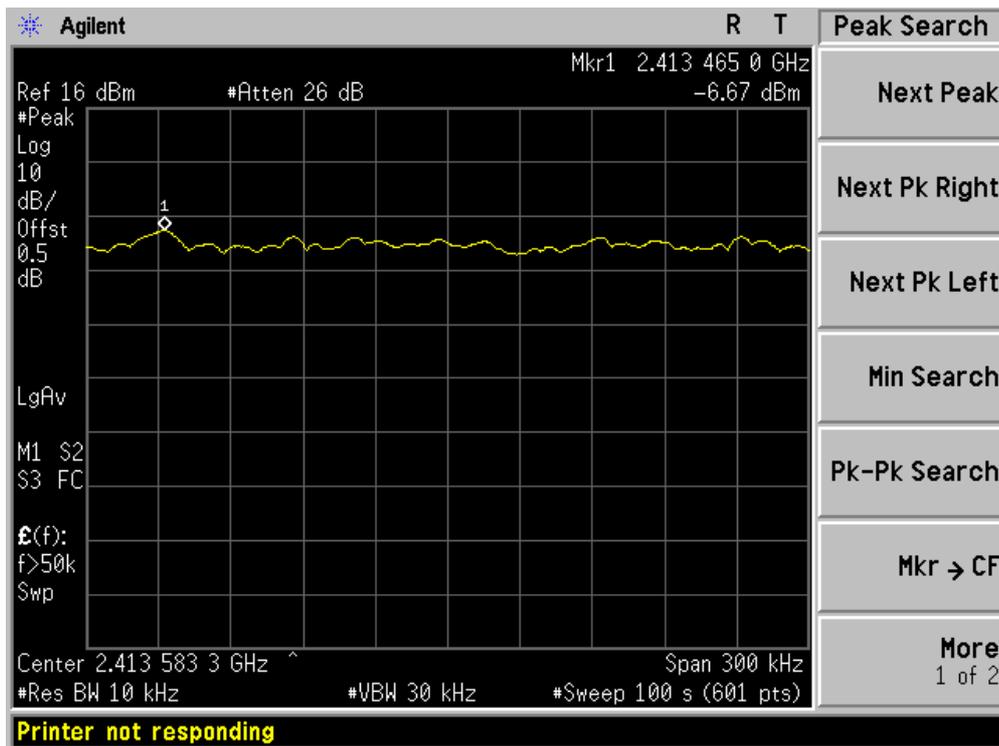
Channel 09 (2452MHz)



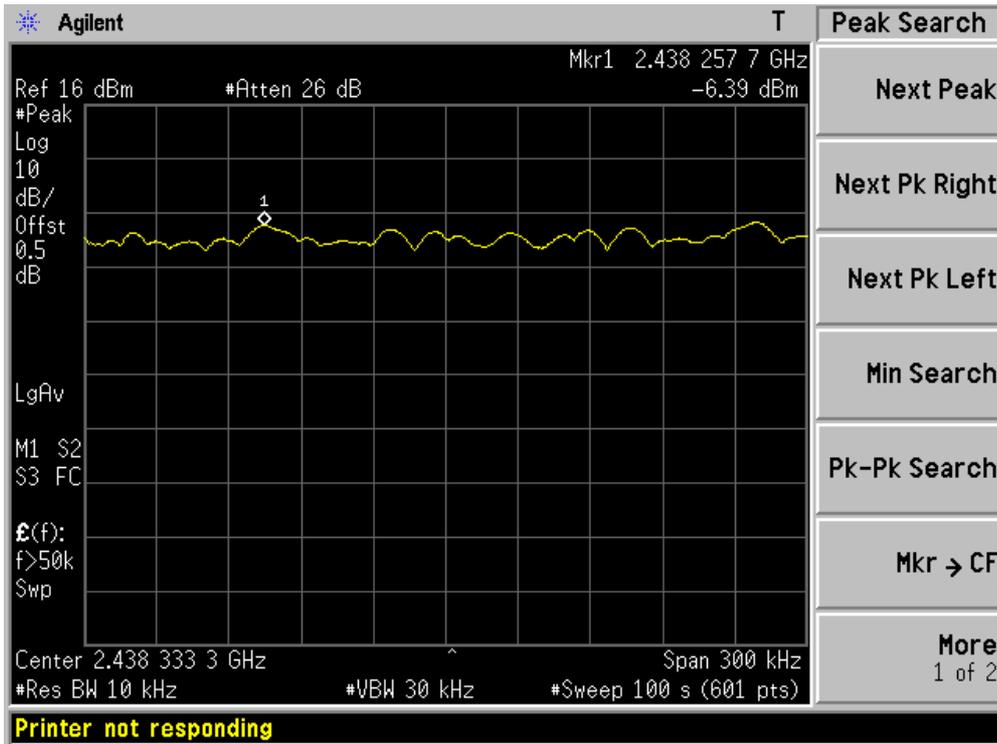
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit at 802.11b (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	N/A	-6.67	-6.67	8	Pass
06	2437	N/A	-6.39	-6.39	8	Pass
11	2462	N/A	-5.68	-5.68	8	Pass

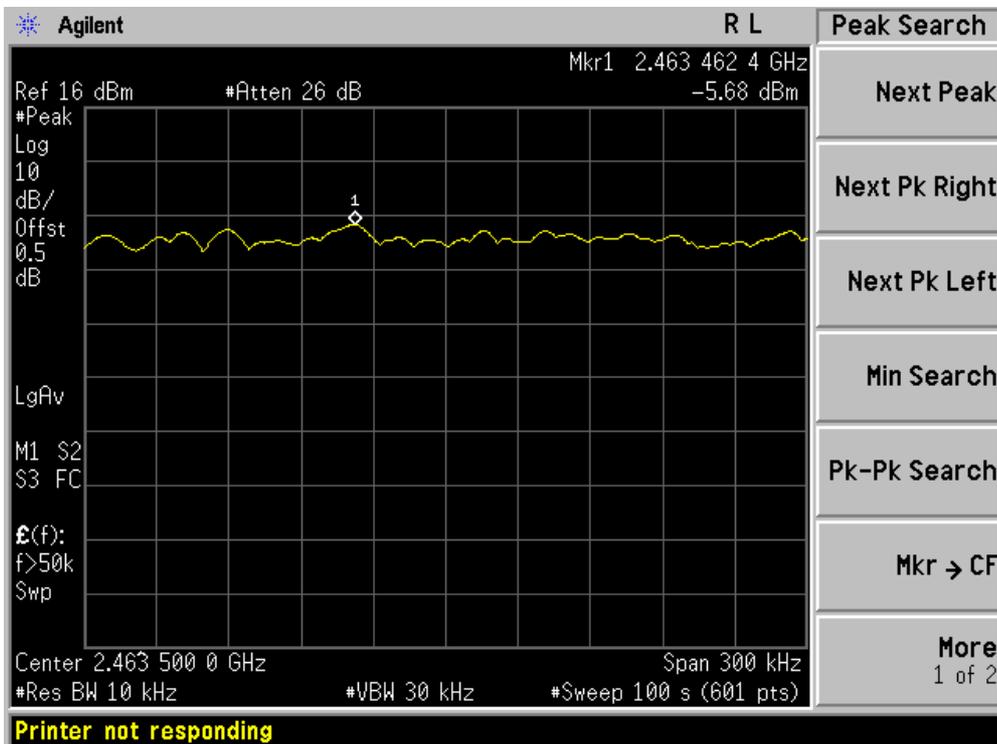
Channel 01 (2412MHz)



Channel 06 (2437MHz)



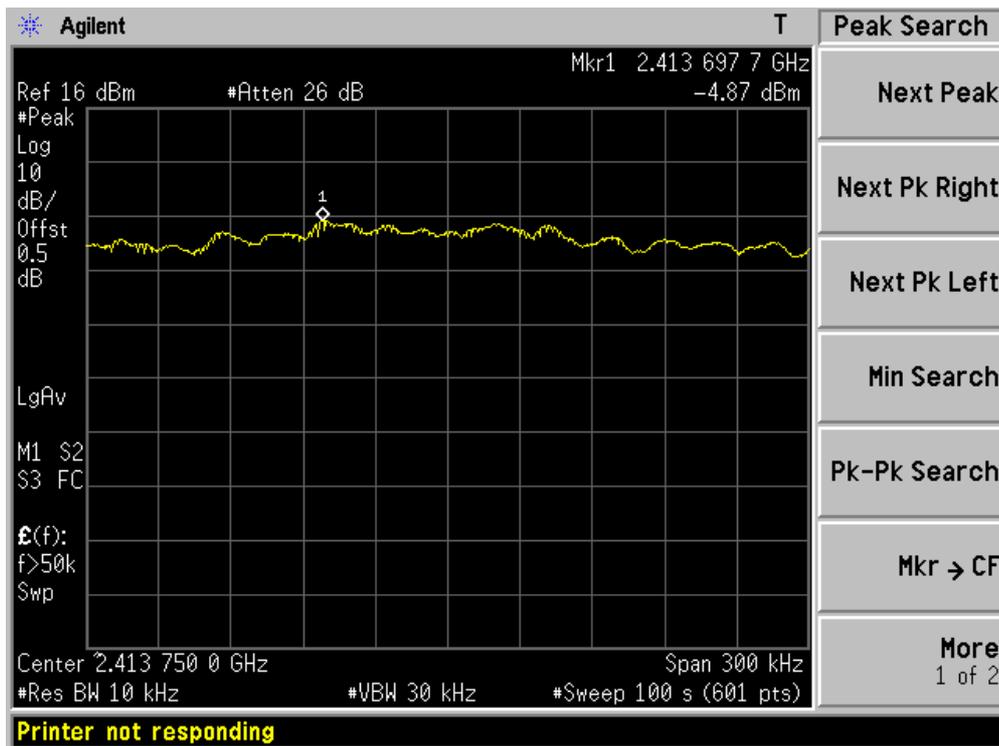
Channel 11 (2462MHz)



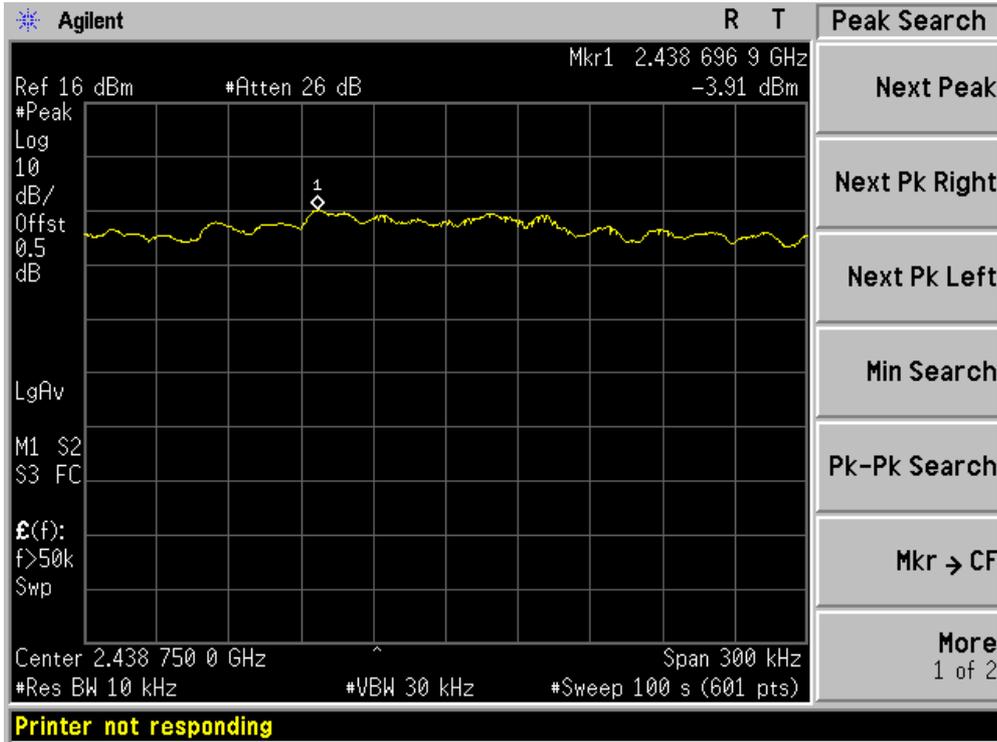
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit at 802.11g (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	N/A	-4.87	-4.87	8	Pass
06	2437	N/A	-3.91	-3.91	8	Pass
11	2462	N/A	-3.81	-3.81	8	Pass

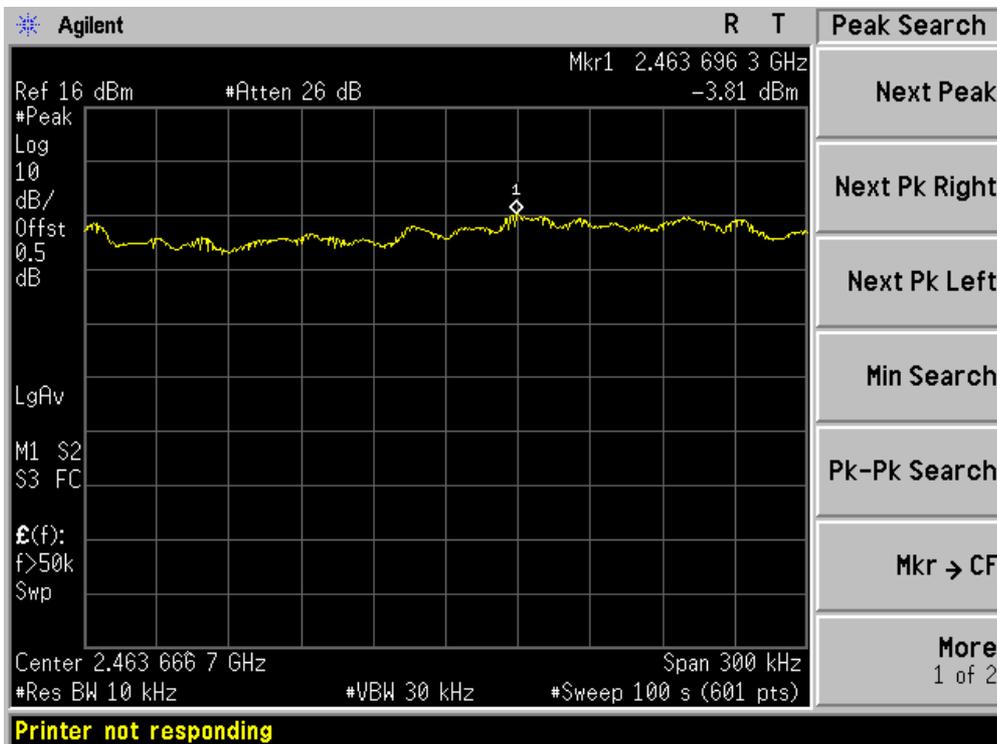
Channel 01 (2412MHz)



Channel 06 (2437MHz)



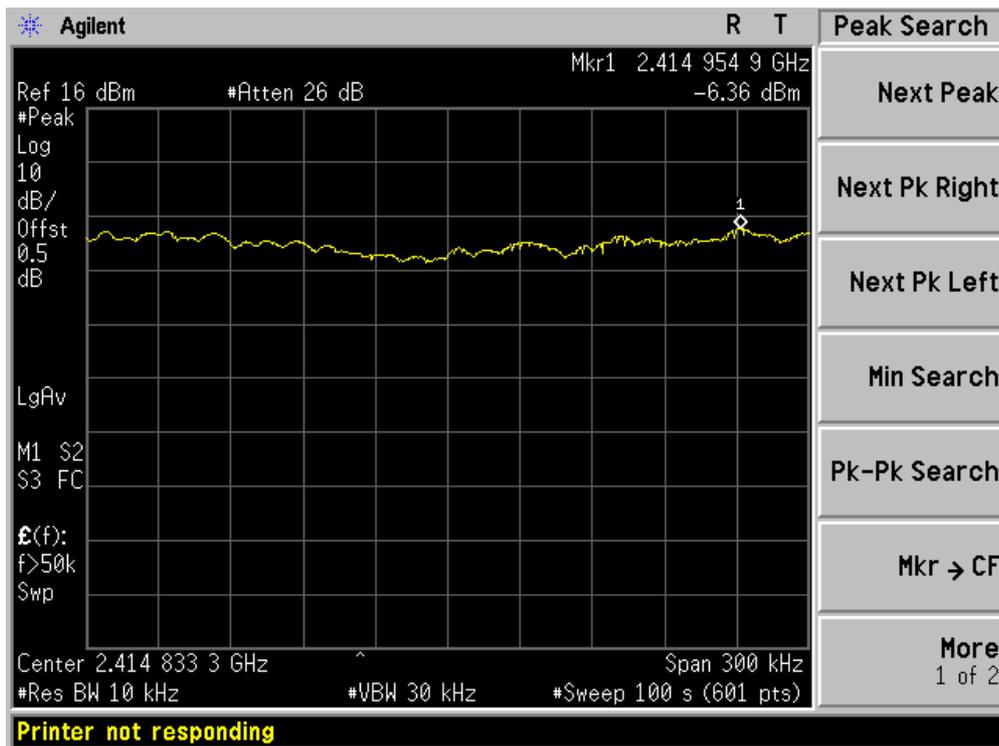
Channel 11 (2462MHz)



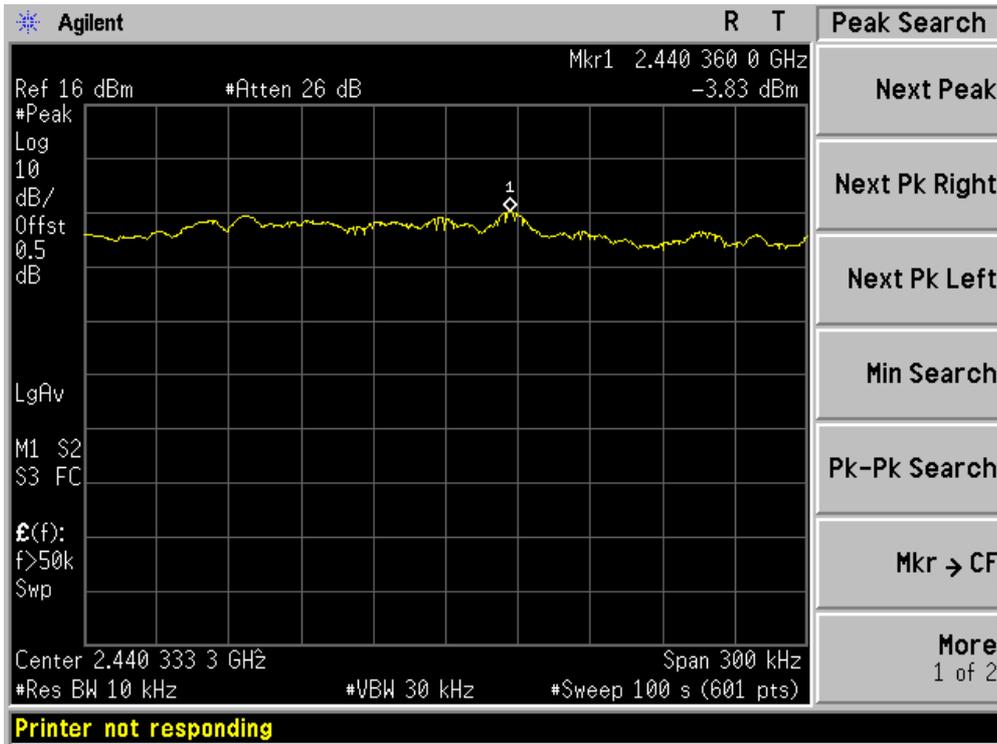
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	N/A	-6.36	-6.36	8	Pass
06	2437	N/A	-3.83	-3.83	8	Pass
11	2462	N/A	-3.43	-3.43	8	Pass

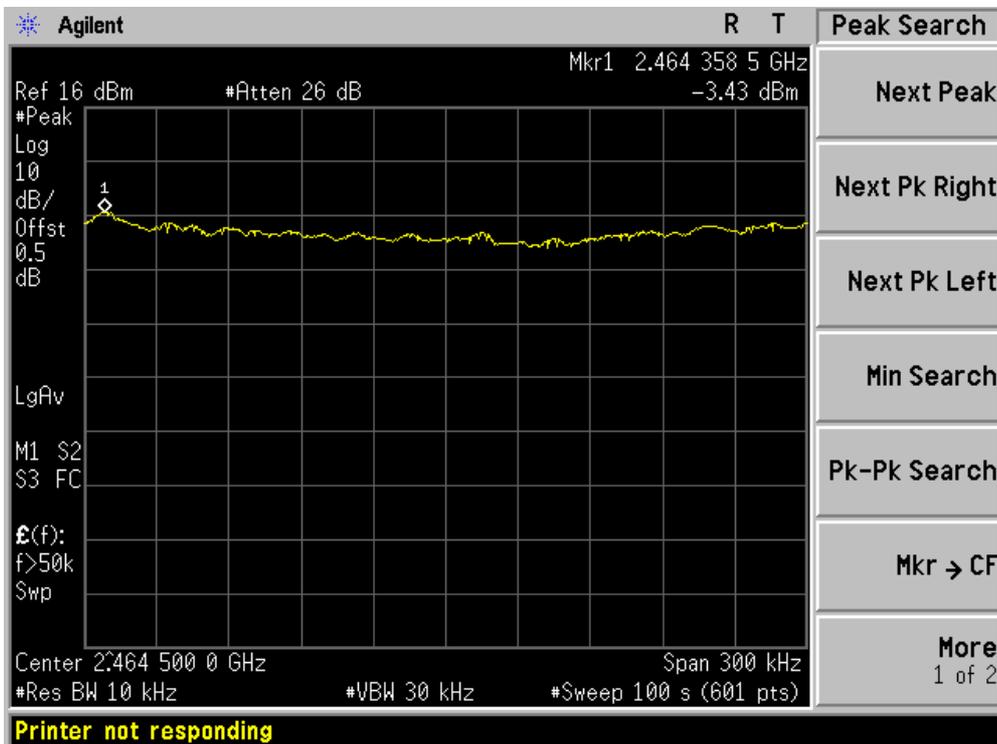
Channel 01 (2412MHz)



Channel 06 (2437MHz)



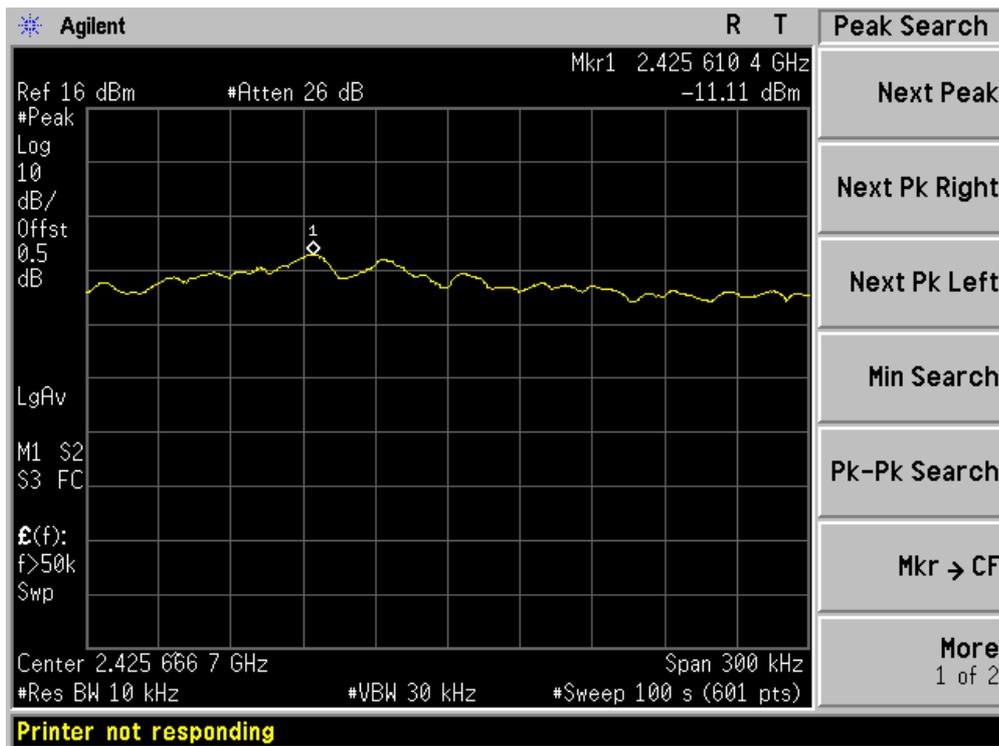
Channel 11 (2462MHz)



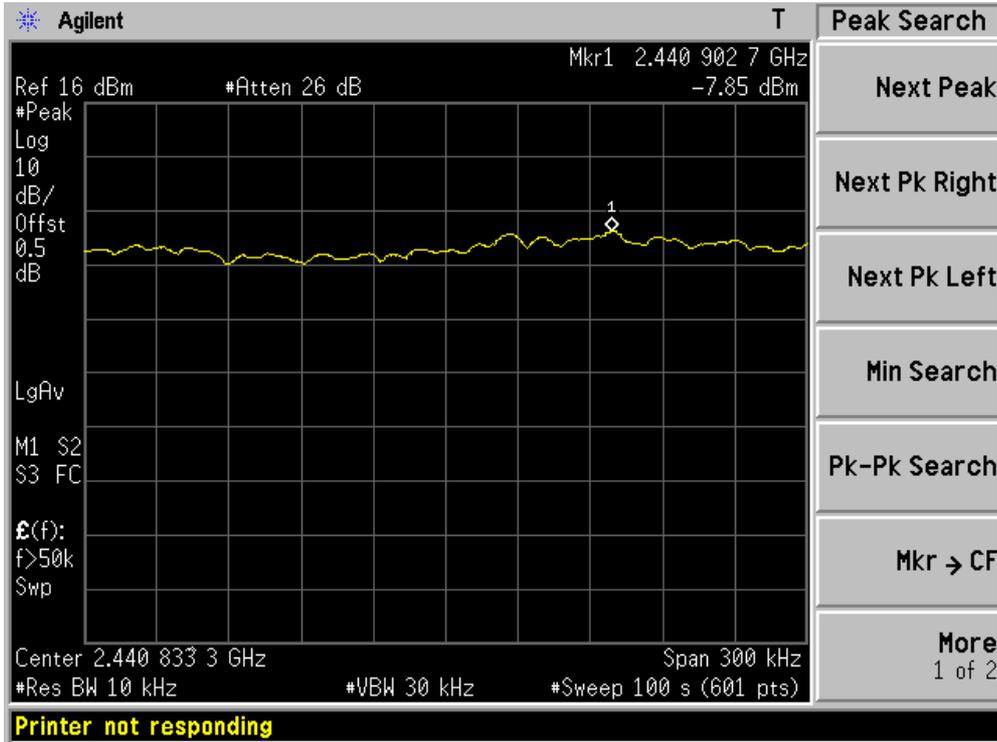
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
03	2422	N/A	-11.11	-11.11	8	Pass
06	2437	N/A	-7.85	-7.85	8	Pass
09	2452	N/A	-13.54	-13.54	8	Pass

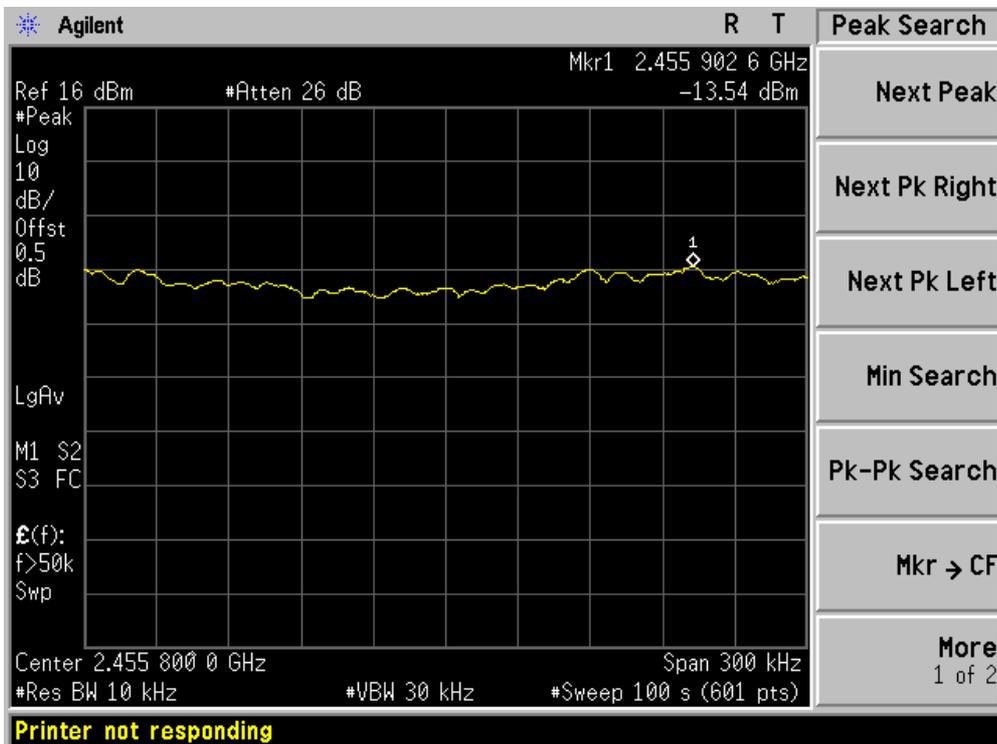
Channel 03 (2422MHz)



Channel 06 (2437MHz)



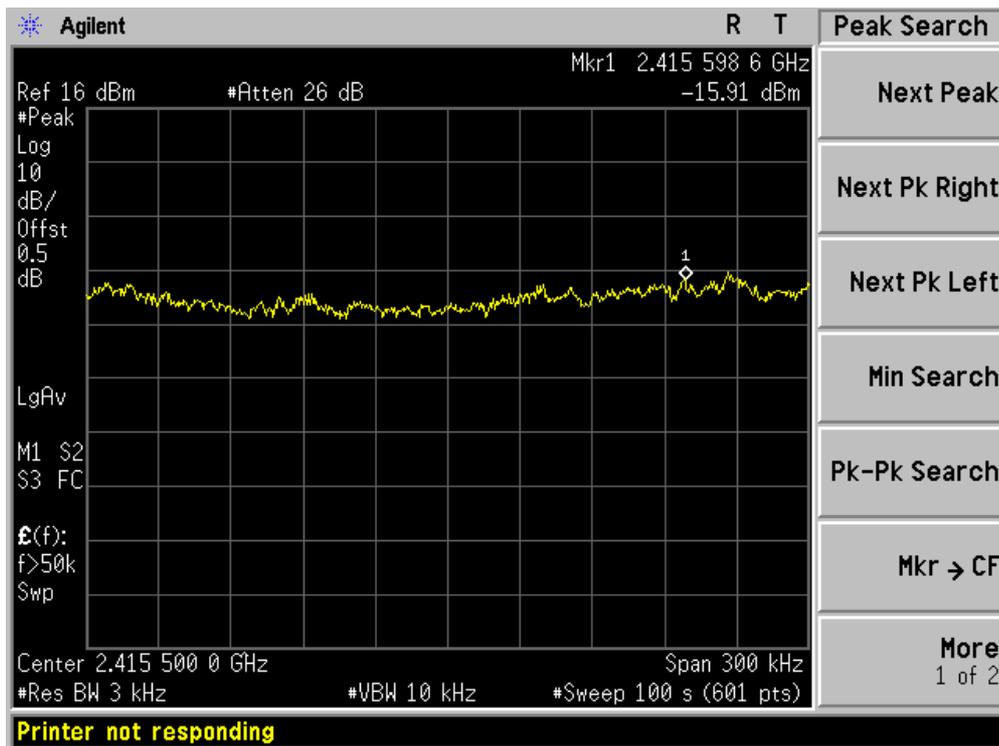
Channel 09 (2452MHz)



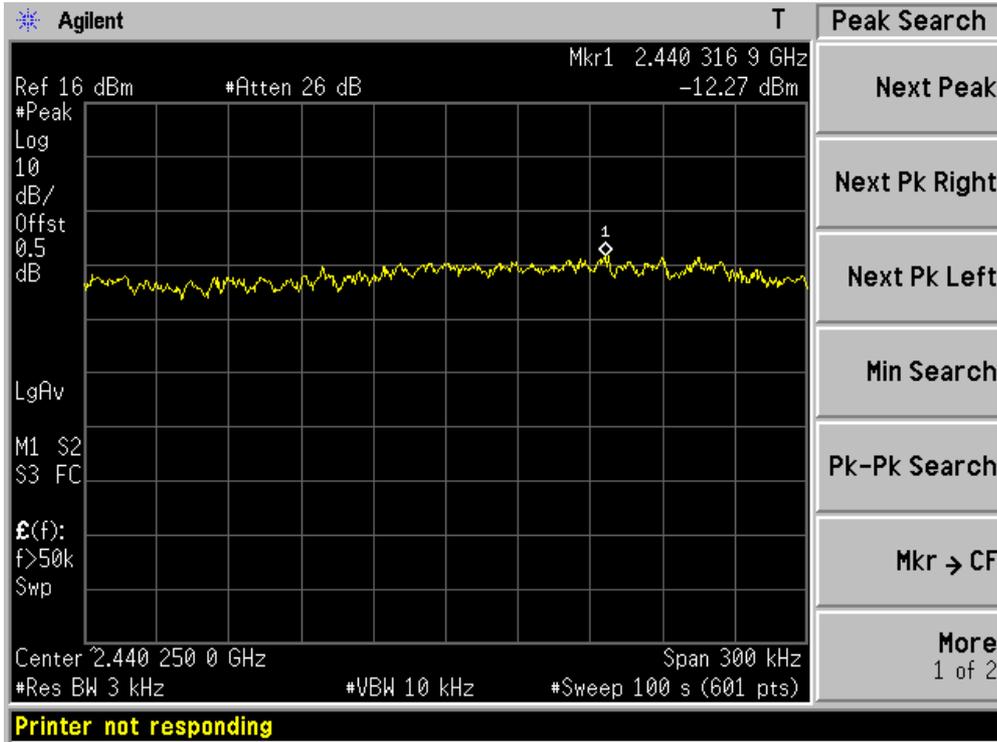
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit at 802.11n (20MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
01	2412	-15.91	-7.41	-6.84	8	Pass
06	2437	-12.27	-3.21	-2.70	8	Pass
11	2462	-11.90	-5.10	-4.28	8	Pass

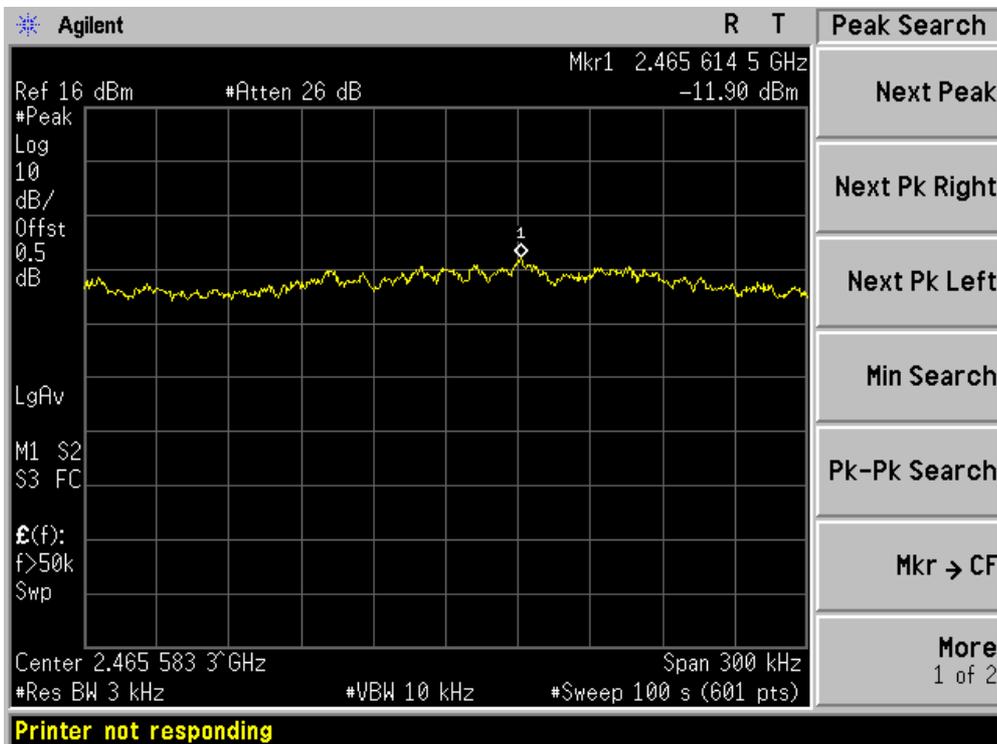
Channel 01 (2412MHz) – Chain 0



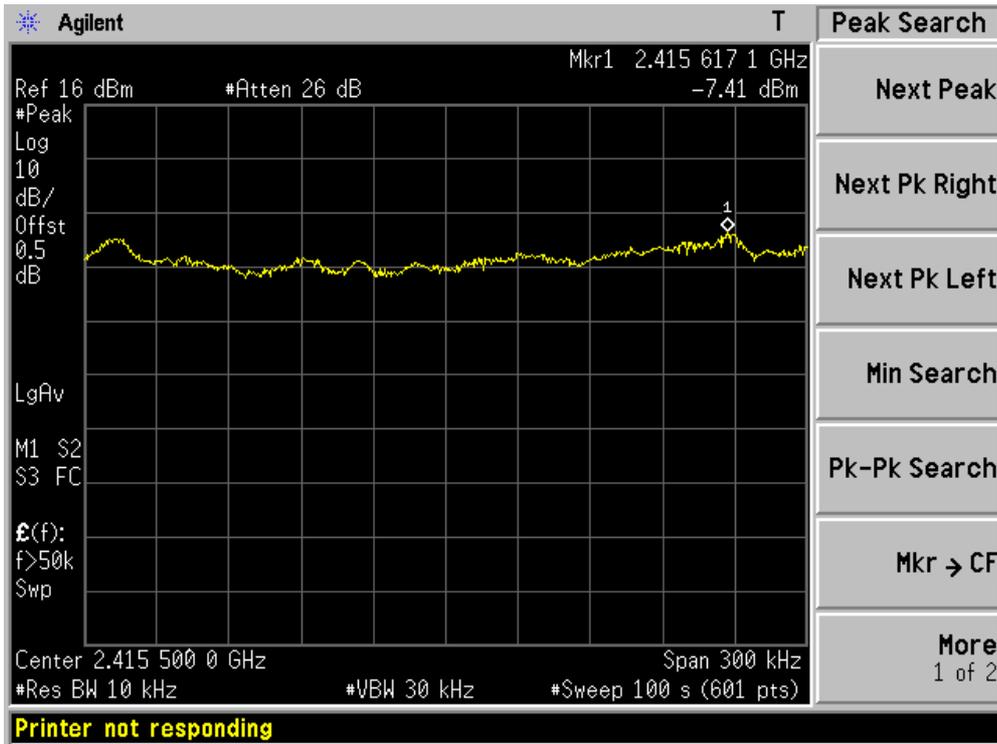
Channel 06 (2437MHz) – Chain 0



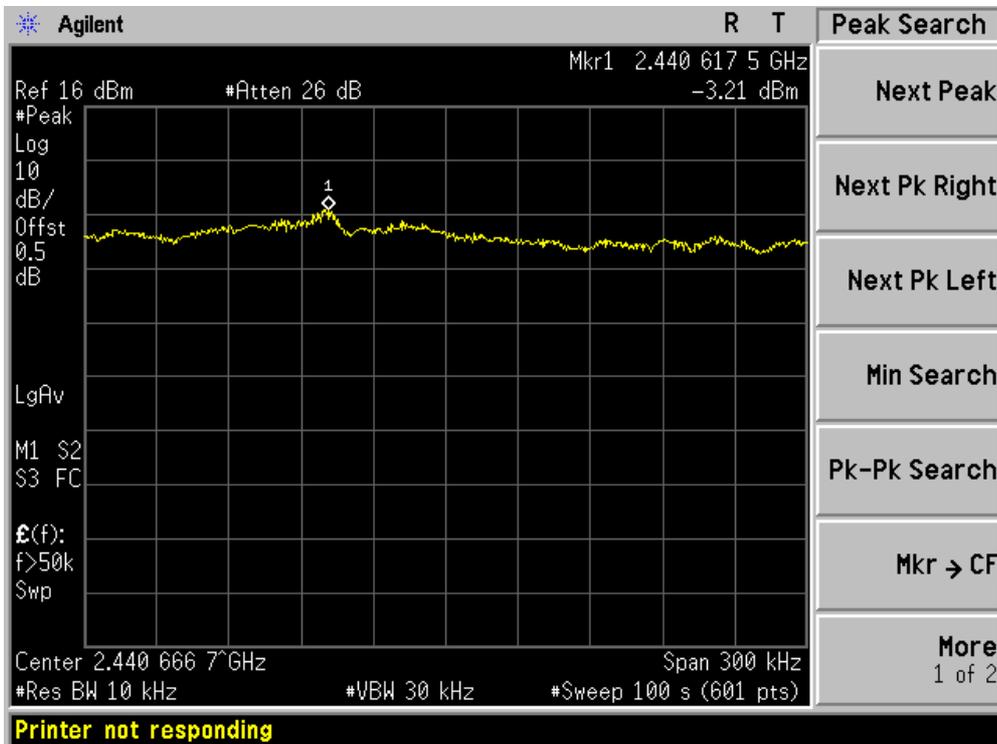
Channel 11 (2462MHz) – Chain 0



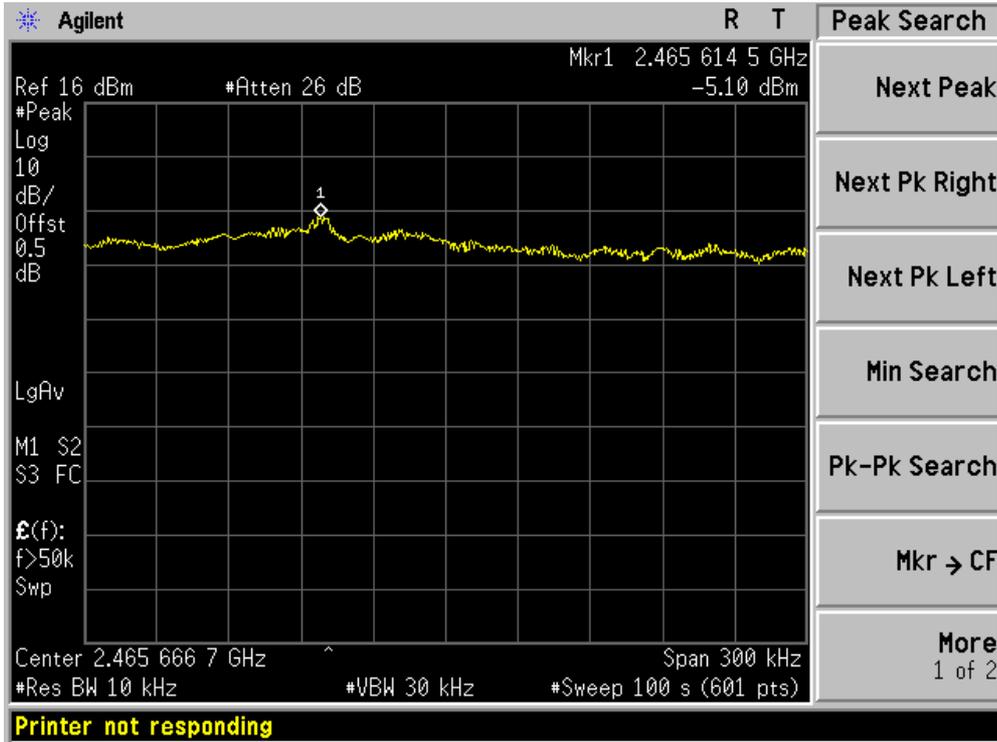
Channel 01 (2412MHz) – Chain 1



Channel 06 (2437MHz) – Chain 1



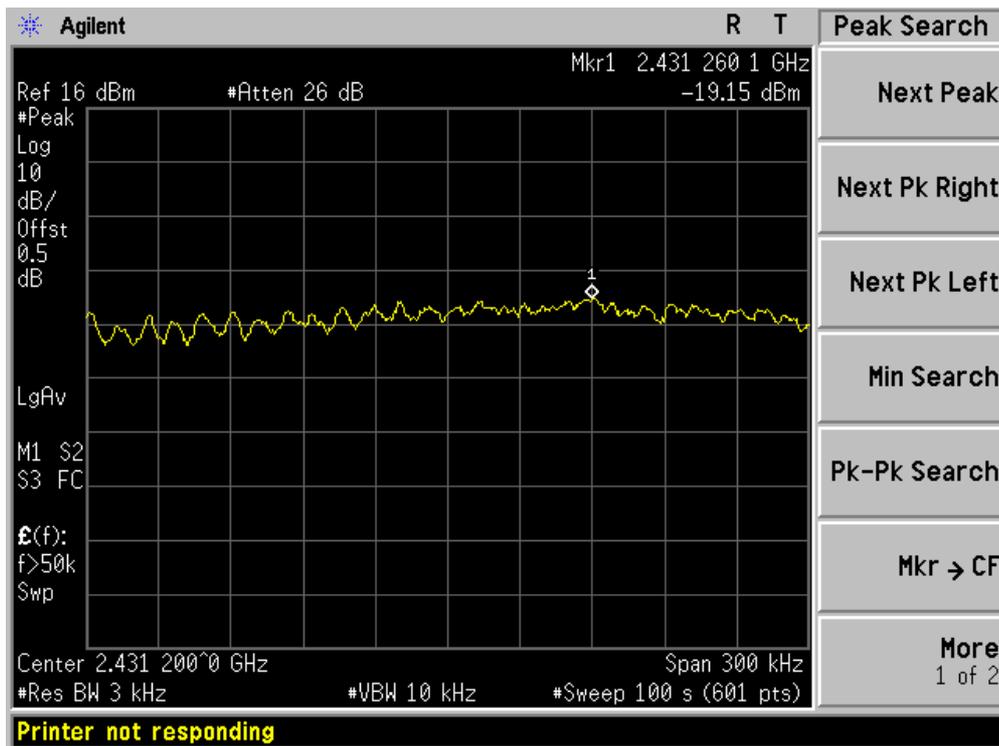
Channel 11 (2462MHz) – Chain 1



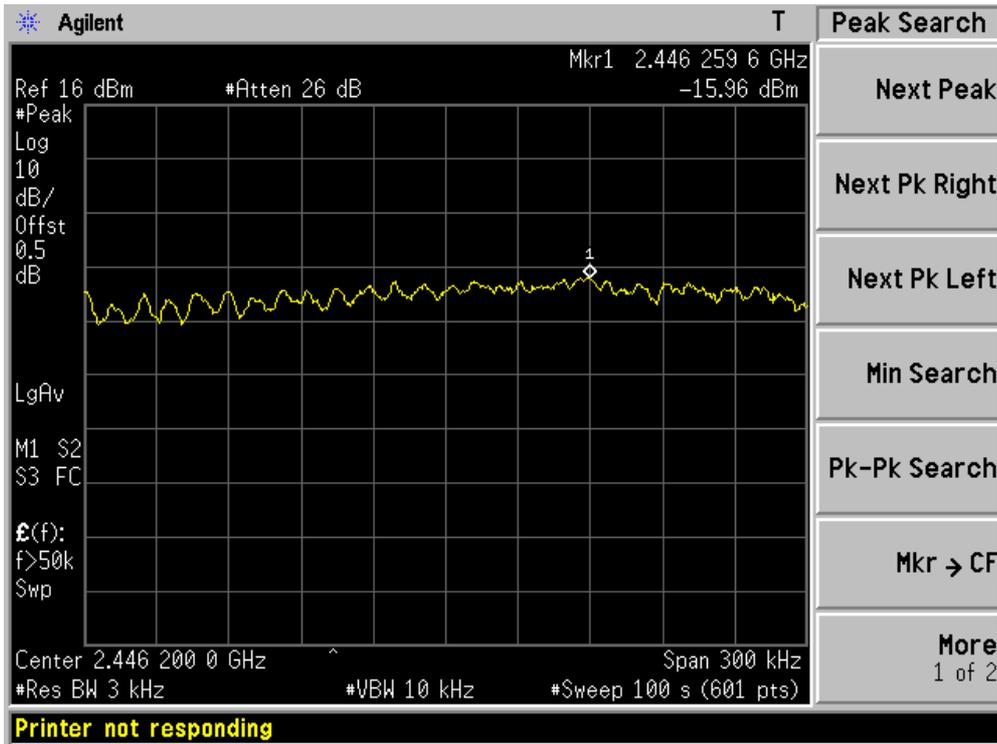
Product	:	Home Gateway
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit at 802.11n (40MHz) (Chain 0+1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm/3kHz)	Result
		Chain 0	Chain 1			
03	2422	-19.15	-11.94	-11.18	8	Pass
06	2437	-15.96	-8.29	-7.60	8	Pass
09	2452	-16.44	-8.07	-7.48	8	Pass

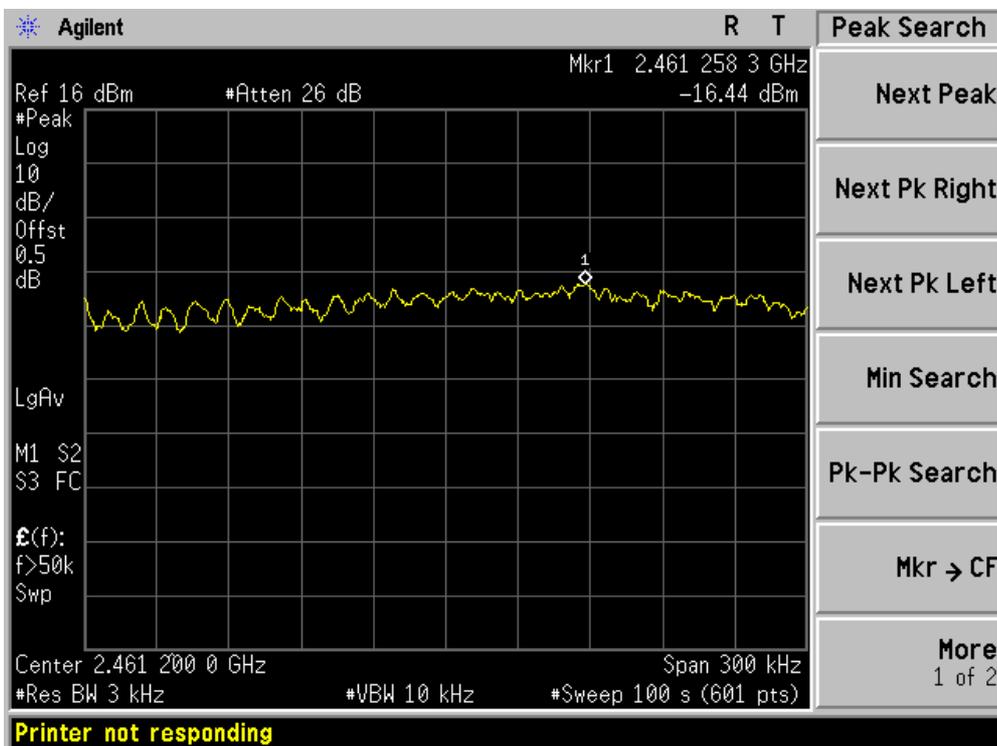
Channel 03 (2422MHz) – Chain 0



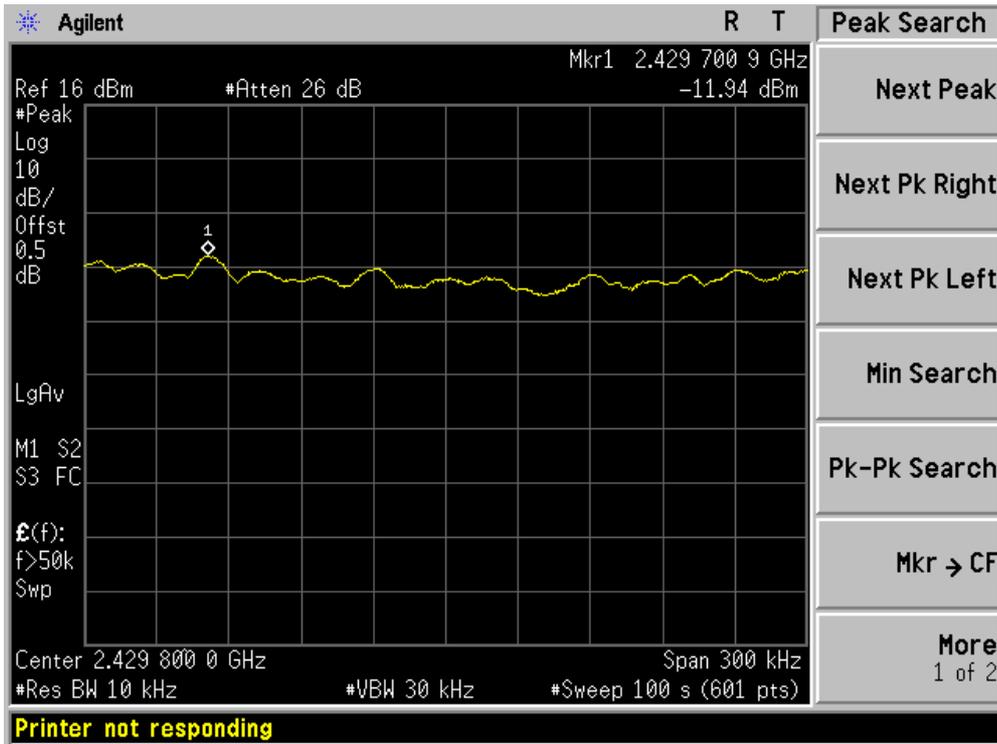
Channel 06 (2437MHz) – Chain 0



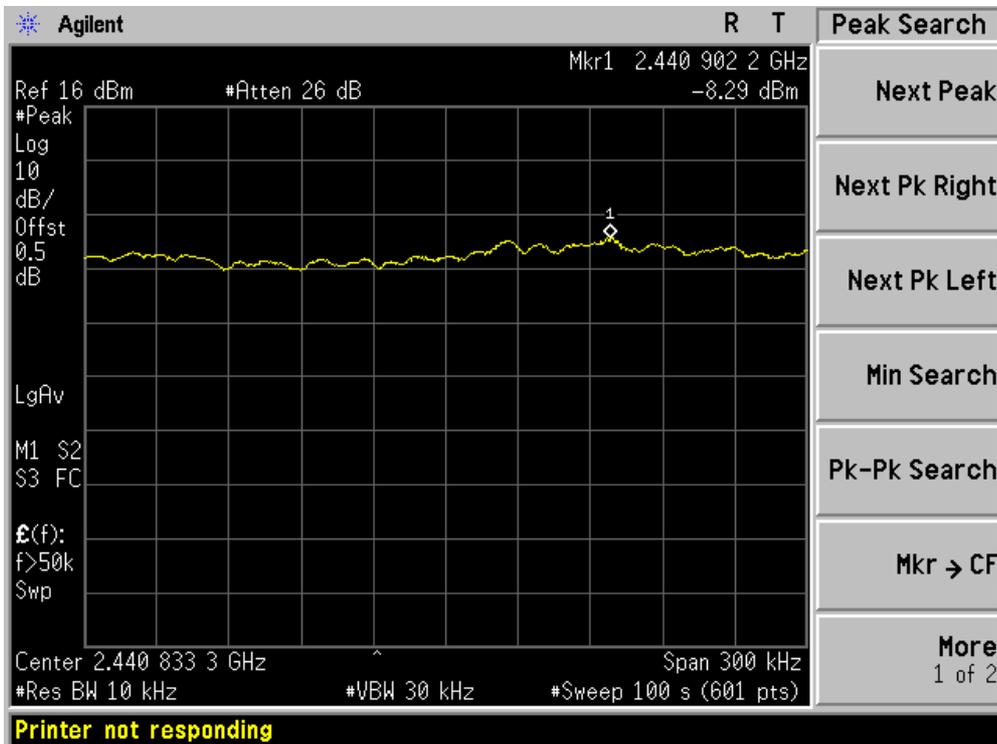
Channel 09 (2452MHz) – Chain 0



Channel 03 (2422MHz) – Chain 1



Channel 06 (2437MHz) – Chain 1



Channel 09 (2452MHz) – Chain 1

