Test Report

Product Name	：	Home Gateway
Model No.	：	Askey: RTA7105W
		HUAWEI: Echolife HG5205
FCC ID No.	：	H8N RTA7105W

Applicant	：	ASKEY TECHNOLOGY(JIANGSU)LTD.
Address	：	No.1388 JIAOTONG ROAD WUJIANG ECONOMIC-TECHNOLOGICAL JIANGSU PROVINCE P.R.C.

Date of Receipt	：	2006/08/23
Issued Date	：	2006/09/04
Report No.	：	068S020-RF-US-P13V01

Test Report Certification

Issued Date : 2006/09/04
Report No. : 068S020-RF-US-P13V01

QuieTek

Product Name	:	Home Gateway
Applicant	:	ASKEY TECHNOLOGY(JIANGSU)LTD.
Address	:	No.1388 JIAOTONG ROAD WUJIANG ECONOMIC-TECHNOLOGICAL JIANGSU PROVINCE P.R.C.
Manufacturer	:	Huawei Technologies Co. Ltd ASKEY COMPUTER CORP.
Model No.	:	Askey: RTA7105W HUAWEI: Echolife HG5205
FCC ID No.	:	H8N RTA7105W
Rated Voltage	:	AC 120V/60Hz
EUT Voltage	:	AC 12V
Trade Name	:	Askey, HUAWEI
Applicable Standard	:	FCC Part 15 Subpart C: 2005 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

Documented By : Mandy Liu
(Mandy Liu)

Reviewed By : Dream Cao
(Dream Cao)

Approved By : Gene Chang
(Gene Chang)

Laboratory Information

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

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

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://tw.quietek.com/modules/myalbum/
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

NVLAP Lab Code : 200347-0

1313

LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

NVLAP Lab Code: 200533-0

0914

Suzhou Testing Laboratory :

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

NVLAP Lab Code : 200743-0

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1. General Information

1.1. EUT Description

Product Name	Home Gateway
Trade Name	Askey, HUAWEI
Model No.	Askey: RTA7105W HUAWEI: Echolife HG5205
FCC ID No.	H8N RTA7105W
Frequency Range	802.11b/g: 2412-2462MHz
Channel Number	802.11b/g: 11CH
Type of Modulation	DSSS/OFDM
Data Speed	DSSS: 1, 2, 5.5, 11Mbps OFDM: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Antenna Gain	2dBi
Channel Control	Auto
Antenna Type	Dipole

Component	
Power Adapter #1	M/N: HDAD-120010-2B Input: AC 100-240V, 50-60Hz, 0.5A Output: DC 12V, 1A Cable Out: Non-Shielded, 1.8m
Power Adapter #2	M/N: MU15-C1120-B10F Input: 100-240V, 50-60Hz, 0.5A Output: 12V, 1A Cable Out: Non-Shielded, 1.8
Power Adapter #3	M/N: A4112100T Input: 120V, 60Hz, 0.18A Output: 12V, 1A Cable Out: Non-Shielded, 1.8
Power Cord	Non-Shielded, 1.8m

Note:

The model of Echolife HG5205 is identical to the model RTA7105W except the trade name. RTA7105W were selected as representative models for the test and their data were recorded in this report.

802.11b/g Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz		

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode
Mode 1: Transmit 802.11b
Mode 2: Transmit 802.11g
Final Test Mode
Mode 1: Transmit 802.11b
Mode 2: Transmit 802.11g

Note:

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 068S020-IT-RF-P01V02, certified under Declaration of Conformity.

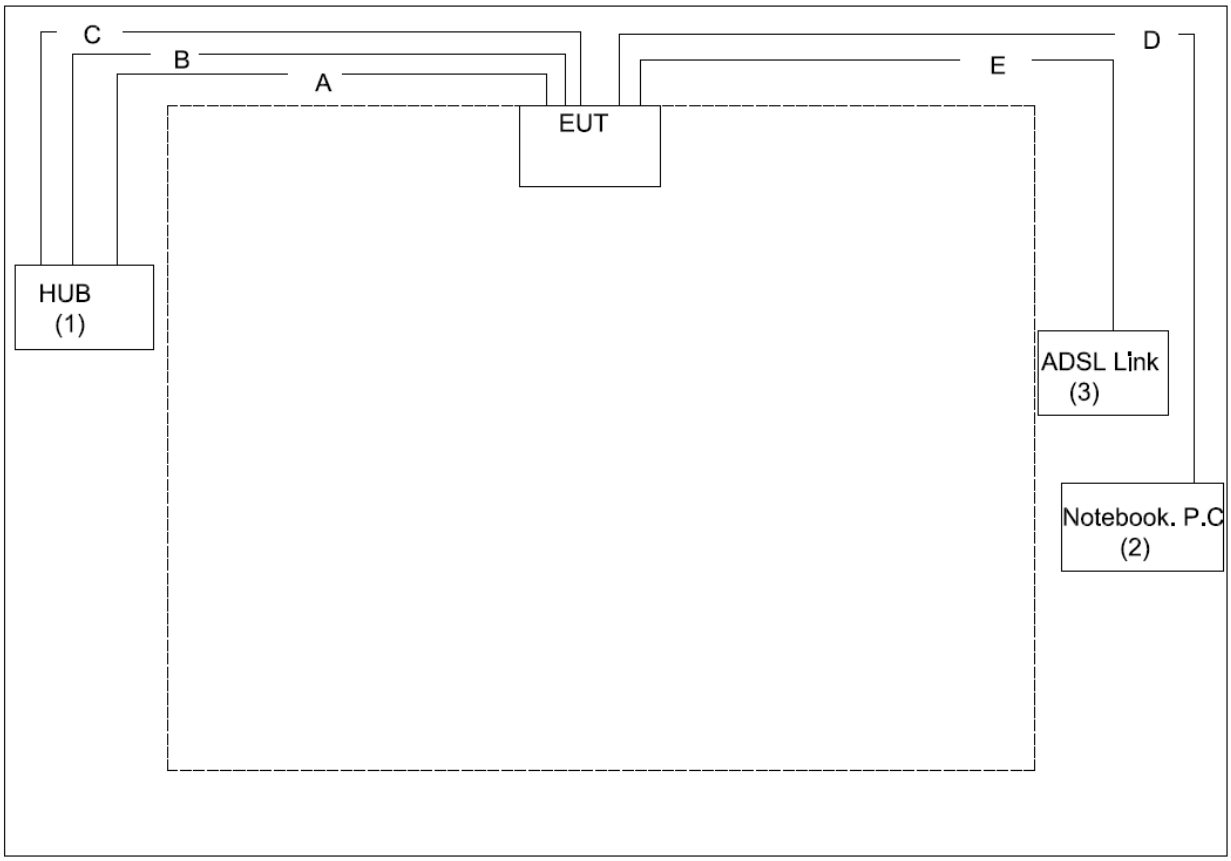
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	HUB	TP-LINK	TL-HP8MU	05802001878	Non-Shielded 1.8m
2	Notebook. P.C	ASUS	T12Jg	N/A	Non-Shielded 1.8m, with one core
3	ADSL Link	Corecess	DSL LINX 6524A	N/A	Non-Shielded 1.8m

1.4. Configuration of Tested System

Connection Diagram



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

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4;
2	Turn on the power of EUT;
3	EUT Connect the Notebook. P.C through LAN Port;
4	EUT Connect the DSL Linx through Telephone Port;
5	Let EUT Communication with Notebook. P.C and ADSL Link;
6	Let EUT USE Wireless communication by Transmit mode with Notebook. P.C.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

For 802.11b/g (FCC 15C)

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC Part 15 Subpart C Paragraph 15.207	Yes	No
Peak Output Power	FCC Part 15 Subpart C Paragraph 15.247	Yes	No
Radiated Emission	FCC Part 15 Subpart C Paragraph 15.247	Yes	No
Band Edge	FCC Part 15 Subpart C Paragraph 15.247	Yes	No
Occupied Bandwidth	FCC Part 15 Subpart C Paragraph 15.247	Yes	No
Peak Power Spectral Density	FCC Part 15 Subpart C Paragraph 15.247	Yes	No

2.2. List of Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCI	100175	2005/07/25
Two-Line V-Network	R&S	ENV216	100013	2006/03/31
Two-Line V-Network	R&S	ENV216	100014	2006/04/25
V-Network	R&S	ESH3-Z6	100248	2005/07/13
V-Network	R&S	ESH3-Z6	100249	2005/07/13
ISN	Schaffner	ISN T400	21648	2005/08/03
Current Probe	R&S	EZ-17	100252	2006/04/18
50ohm Coaxial Switch	ANRITSU	MP59B	6200447305	2005/11/25
50ohm Impedance	SHX	50ohmI	QT-IM001	2006/03/20
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2006/03/30

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
EMI Test Receiver	R&S	ESCI	100175	2005/07/25
Preamplifier	Quietek	AP-025C	QT-AP003	2005/11/25
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/03/20
Bilog Type Antenna	Schaffner	CBL6112B	2932	2005/10/26
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2005/09/30
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2005/09/30
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2006/03/30

Peak Output Power / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2006/03/30

Peak Power Spectral Density / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2006/03/30

Occupied Bandwidth / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2006/03/30

Band Edge / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
EMI Test Receiver	R&S	ESCI	100175	2005/07/25
Preamplifier	Quietek	AP-025C	QT-AP003	2005/11/25
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/03/20
Bilog Type Antenna	Schaffner	CBL6112B	2932	2005/10/26
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2005/09/30
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2005/09/30
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2006/03/30

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 2.26 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 3.19 dB.

2.4. Test Environment

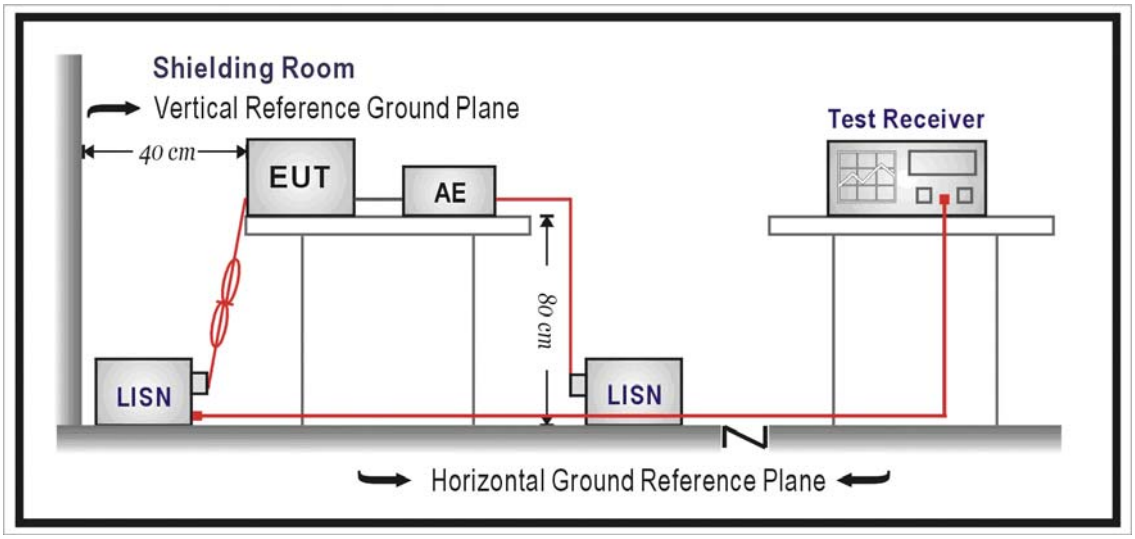
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	48
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	51
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission (Main Terminals)

3.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.207

3.2. Test Setup



3.3. Limit

Limits (dBuV)		
Frequency	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges

3.4. Test Procedure

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

Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

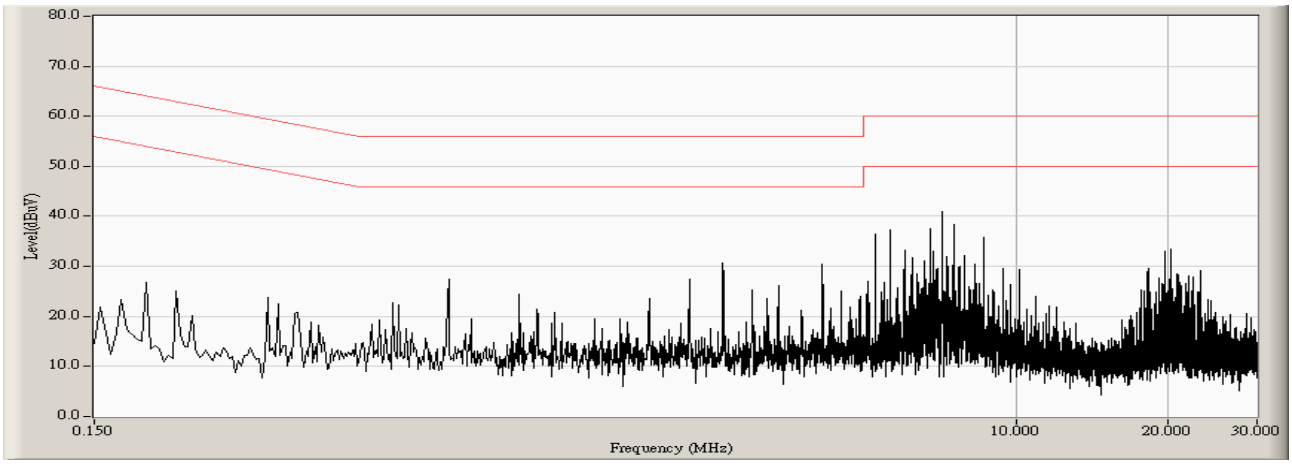
The bandwidth of the field strength meter is 9kHz.

3.5. Deviation from Test Standard

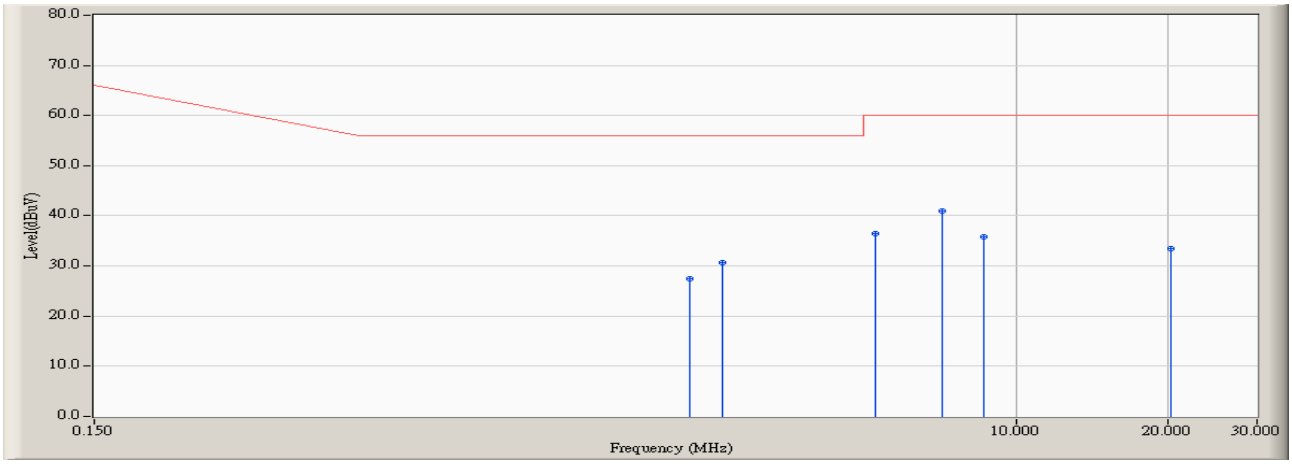
No deviation.

3.6. Test Result

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:31**
Limit : FCC_Part15_C_00M_QP	**Margin : 10**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**



Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:31**
Limit : FCC_Part15_C_00M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**

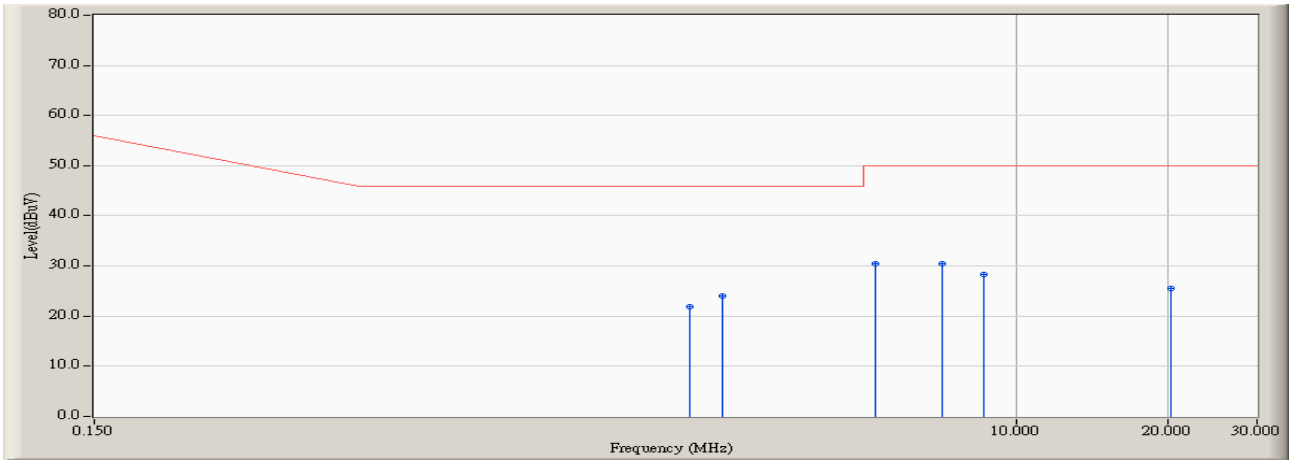


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.258	9.830	17.689	27.519	-28.481	56.000	QUASIPEAK
2		2.634	9.830	20.740	30.570	-25.430	56.000	QUASIPEAK
3		5.270	9.790	26.642	36.432	-23.568	60.000	QUASIPEAK
4	*	7.150	9.850	31.083	40.933	-19.067	60.000	QUASIPEAK
5		8.657	9.900	25.855	35.755	-24.245	60.000	QUASIPEAK
6		20.257	10.190	23.189	33.379	-26.621	60.000	QUASIPEAK

Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:31**
Limit : FCC_Part15_C_00M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**

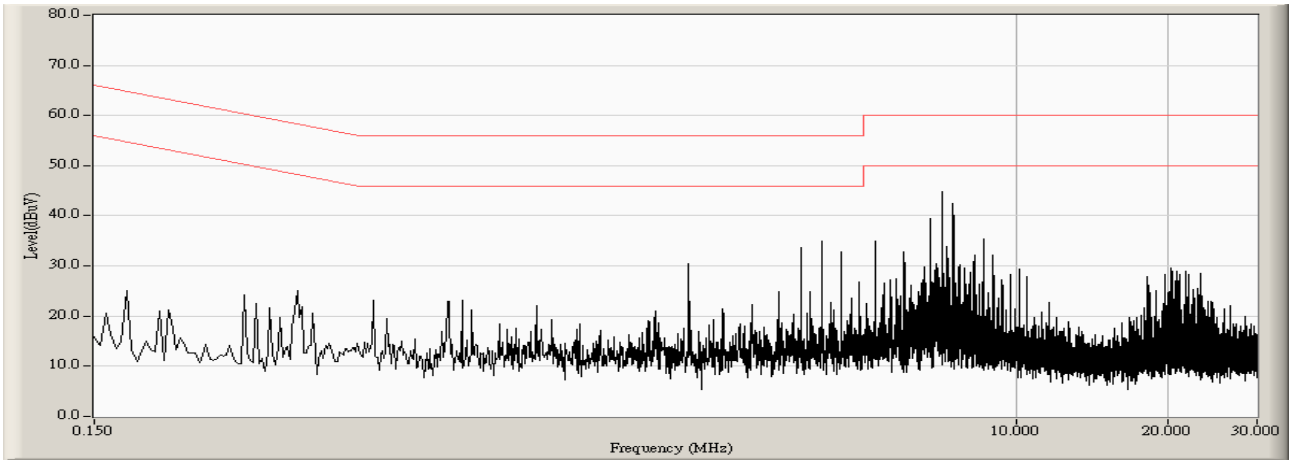


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.258	9.830	12.050	21.880	-24.120	46.000	AVERAGE
2		2.634	9.830	14.156	23.986	-22.014	46.000	AVERAGE
3		5.270	9.790	20.560	30.350	-19.650	50.000	AVERAGE
4	*	7.150	9.850	20.680	30.530	-19.470	50.000	AVERAGE
5		8.657	9.900	18.420	28.320	-21.680	50.000	AVERAGE
6		20.257	10.190	15.330	25.520	-24.480	50.000	AVERAGE

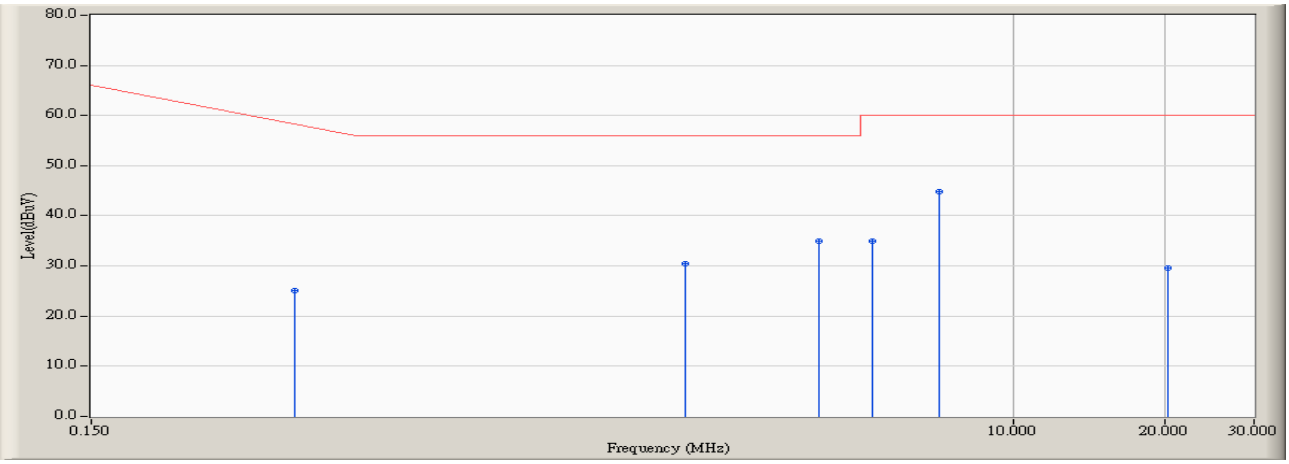
Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:35**
Limit : FCC_Part15_C_00M_QP	**Margin : 10**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**



Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:35**
Limit : FCC_Part15_C_00M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**

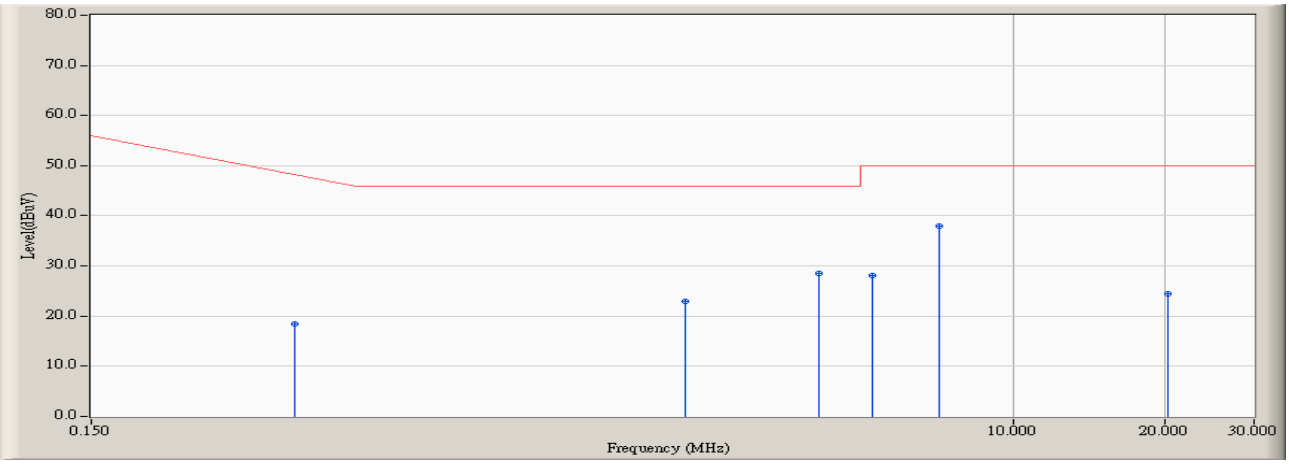


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.378	9.593	15.567	25.160	-34.326	59.486	QUASIPEAK
2		2.254	9.780	20.736	30.516	-25.484	56.000	QUASIPEAK
3		4.138	9.740	25.269	35.009	-20.991	56.000	QUASIPEAK
4		5.262	9.710	25.205	34.915	-25.085	60.000	QUASIPEAK
5	*	7.142	9.780	35.089	44.869	-15.131	60.000	QUASIPEAK
6		20.321	10.100	19.471	29.571	-30.429	60.000	QUASIPEAK

Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:35**
Limit : FCC_Part15_C_00M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode 1: Transmit 802.11b(2437MHz)**

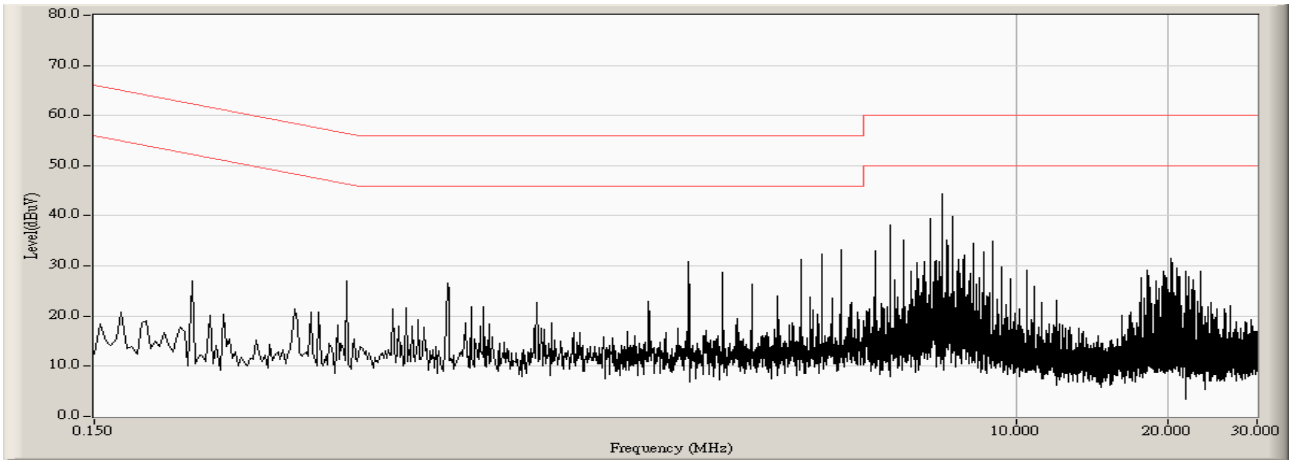


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.378	9.593	8.870	18.463	-31.023	49.486	AVERAGE
2		2.254	9.780	13.226	23.006	-22.994	46.000	AVERAGE
3		4.138	9.740	18.790	28.530	-17.470	46.000	AVERAGE
4		5.262	9.710	18.330	28.040	-21.960	50.000	AVERAGE
5	*	7.142	9.780	28.280	38.060	-11.940	50.000	AVERAGE
6		20.321	10.100	14.335	24.435	-25.565	50.000	AVERAGE

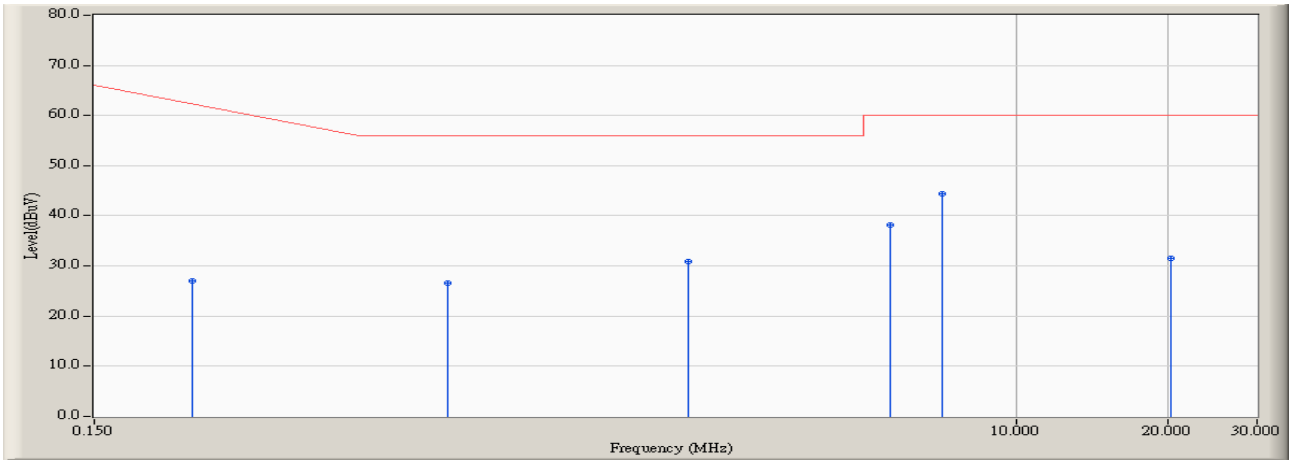
Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:43**
Limit : FCC_Part15_C_00M_QP	**Margin : 10**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**



Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:46**
Limit : FCC_Part15_C_00M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

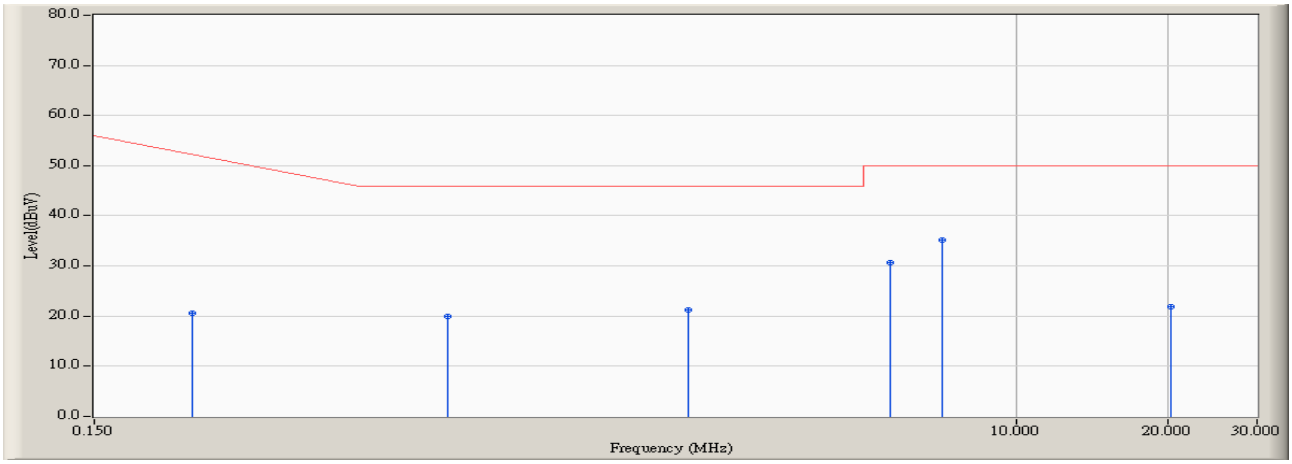


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.234	9.320	17.773	27.093	-36.507	63.600	QUASIPEAK
2		0.750	9.683	16.979	26.662	-29.338	56.000	QUASIPEAK
3		2.254	9.830	21.015	30.845	-25.155	56.000	QUASIPEAK
4		5.634	9.810	28.429	38.239	-21.761	60.000	QUASIPEAK
5	*	7.130	9.850	34.622	44.472	-15.528	60.000	QUASIPEAK
6		20.257	10.190	21.373	31.563	-28.437	60.000	QUASIPEAK

Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:46**
Limit : FCC_Part15_C_00M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line1**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

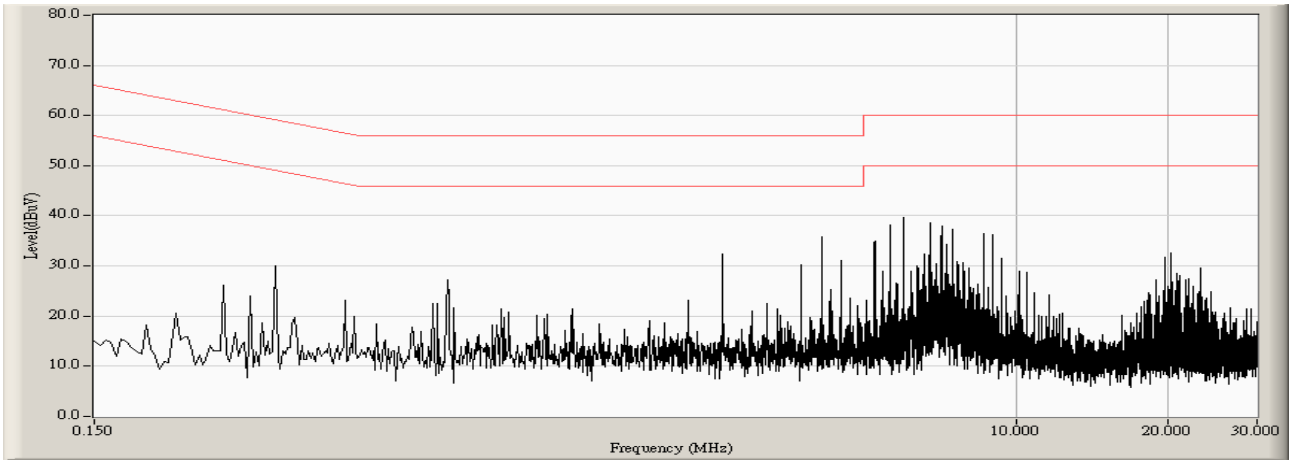


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.234	9.320	11.336	20.656	-32.944	53.600	AVERAGE
2		0.750	9.683	10.360	20.043	-25.957	46.000	AVERAGE
3		2.254	9.830	11.360	21.190	-24.810	46.000	AVERAGE
4		5.634	9.810	20.780	30.590	-19.410	50.000	AVERAGE
5	*	7.130	9.850	25.360	35.210	-14.790	50.000	AVERAGE
6		20.257	10.190	11.650	21.840	-28.160	50.000	AVERAGE

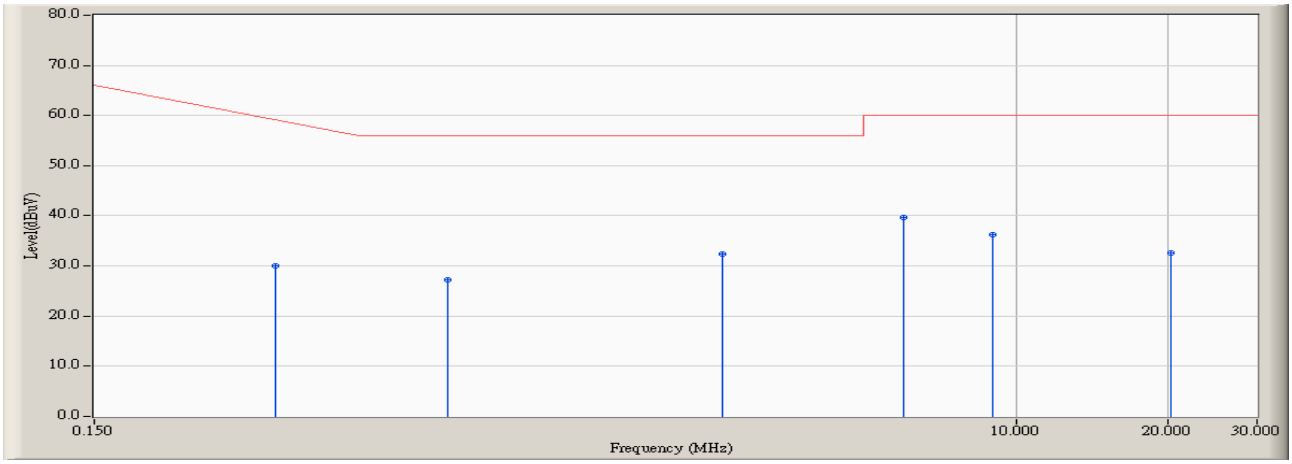
Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:49**
Limit : FCC_Part15_C_00M_QP	**Margin : 10**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**



Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:49**
Limit : FCC_Part15_C_00M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

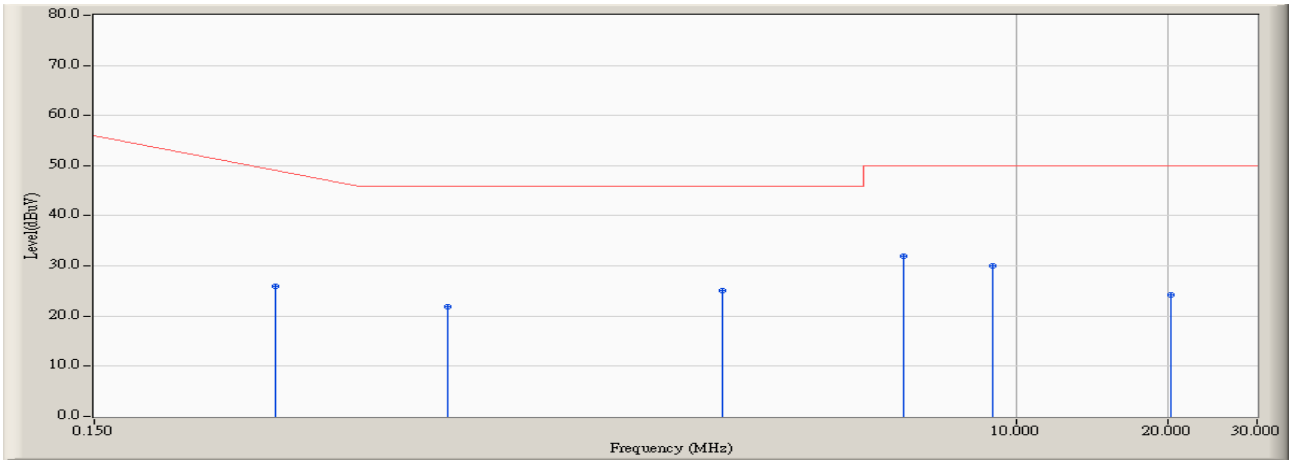


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.342	9.563	20.434	29.997	-30.517	60.514	QUASIPEAK
2		0.750	9.657	17.624	27.281	-28.719	56.000	QUASIPEAK
3		2.626	9.770	22.610	32.380	-23.620	56.000	QUASIPEAK
4	*	6.006	9.740	29.929	39.669	-20.331	60.000	QUASIPEAK
5		9.005	9.900	26.283	36.183	-23.817	60.000	QUASIPEAK
6		20.257	10.100	22.470	32.570	-27.430	60.000	QUASIPEAK

Note:

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

Engineer : John	
Site : SR-1	**Time : 2006/08/29 - 09:49**
Limit : FCC_Part15_C_00M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : ENV216 - Line2**
Power : AC120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.342	9.563	16.330	25.893	-24.621	50.514	AVERAGE
2		0.750	9.657	12.120	21.777	-24.223	46.000	AVERAGE
3		2.626	9.770	15.220	24.990	-21.010	46.000	AVERAGE
4	*	6.006	9.740	22.117	31.857	-18.143	50.000	AVERAGE
5		9.005	9.900	20.110	30.010	-19.990	50.000	AVERAGE
6		20.257	10.100	14.110	24.210	-25.790	50.000	AVERAGE

Note:

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

3.7. Test Photograph

Test Mode : Mode1: Transmitter 802.11b

Description : Front View of Conducted Test for Main

Test Mode : Mode1: Transmitter 802.11b

Description : Back View of Conducted Test for Main

Test Mode : Mode2: Transmitter 802.11g

Description : Front View of Conducted Test for Main

Test Mode : Mode2: Transmitter 802.11g

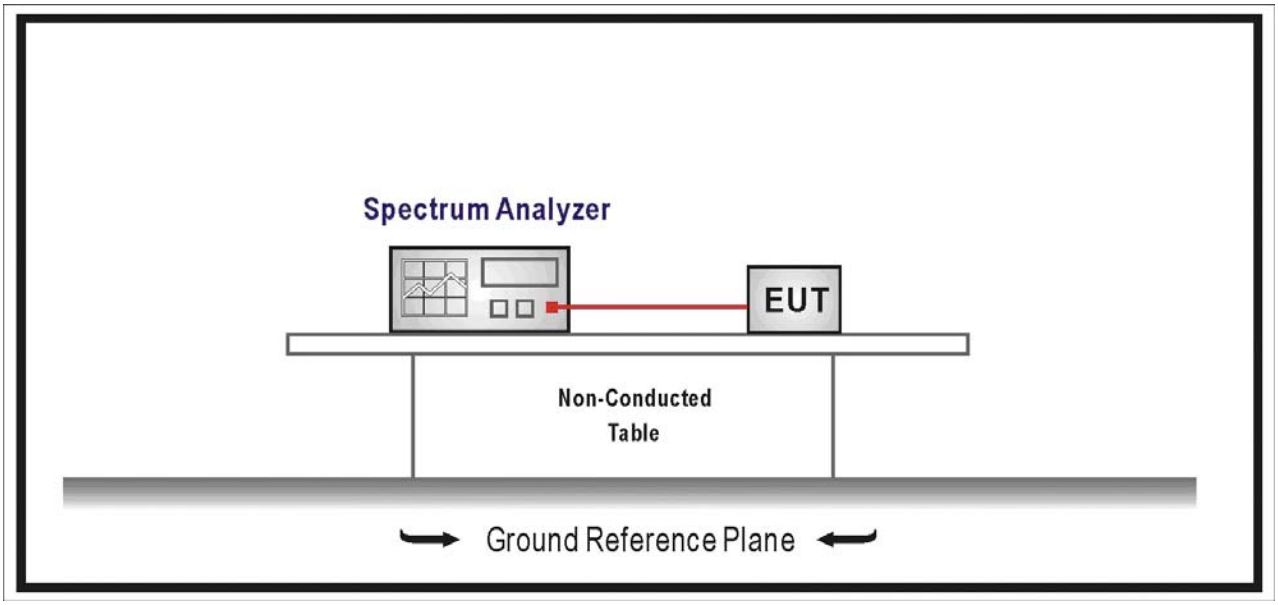
Description : Back View of Conducted Test for Main

4. Peak Output Power

4.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.247

4.2. Test Setup



4.3. Limit

The maximum peak power shall be less 1 Watt.

4.4. Deviation from Test Standard

No deviation.

4.5. Test Result

Product	Home Gateway		
Test Item	Peak Output Power		
Test Mode	Mode1: Transmitter 802.11b		
Date of Test	2006/08/30	Test Site	AC-3

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412.00	15.80	1 Watt= 30 dBm	Pass
06	2437.00	15.60	1 Watt= 30 dBm	Pass
11	2462.00	15.69	1 Watt= 30 dBm	Pass

Figure Channel 01 (2412MHz)

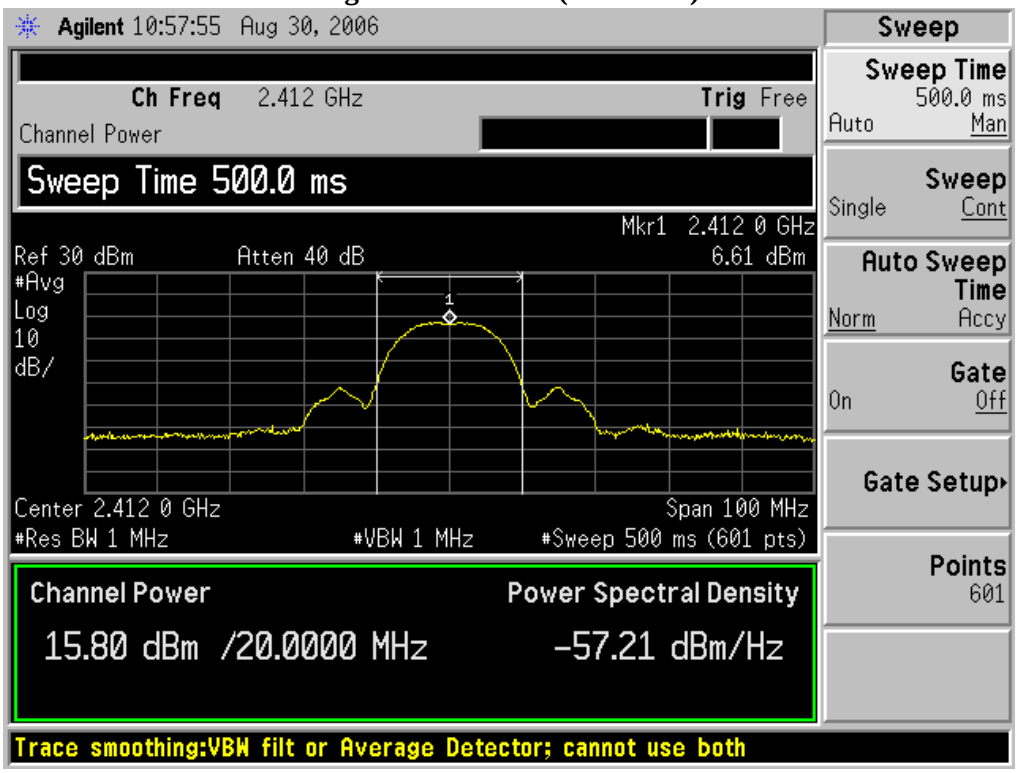


Figure Channel 06 (2437MHz)

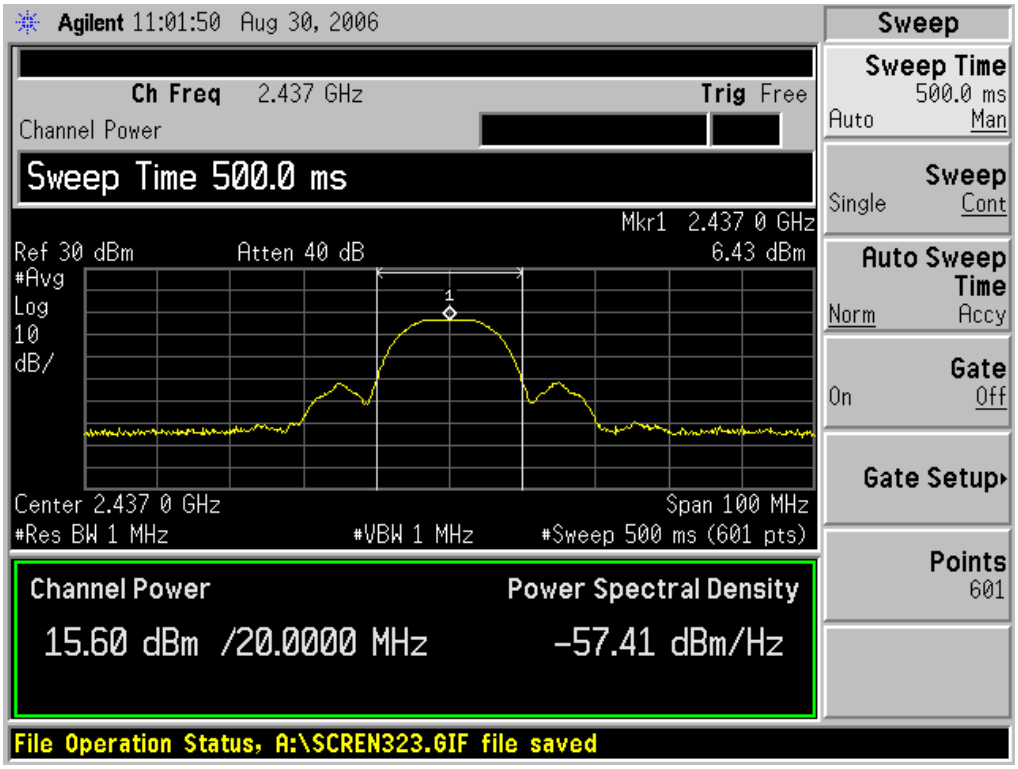
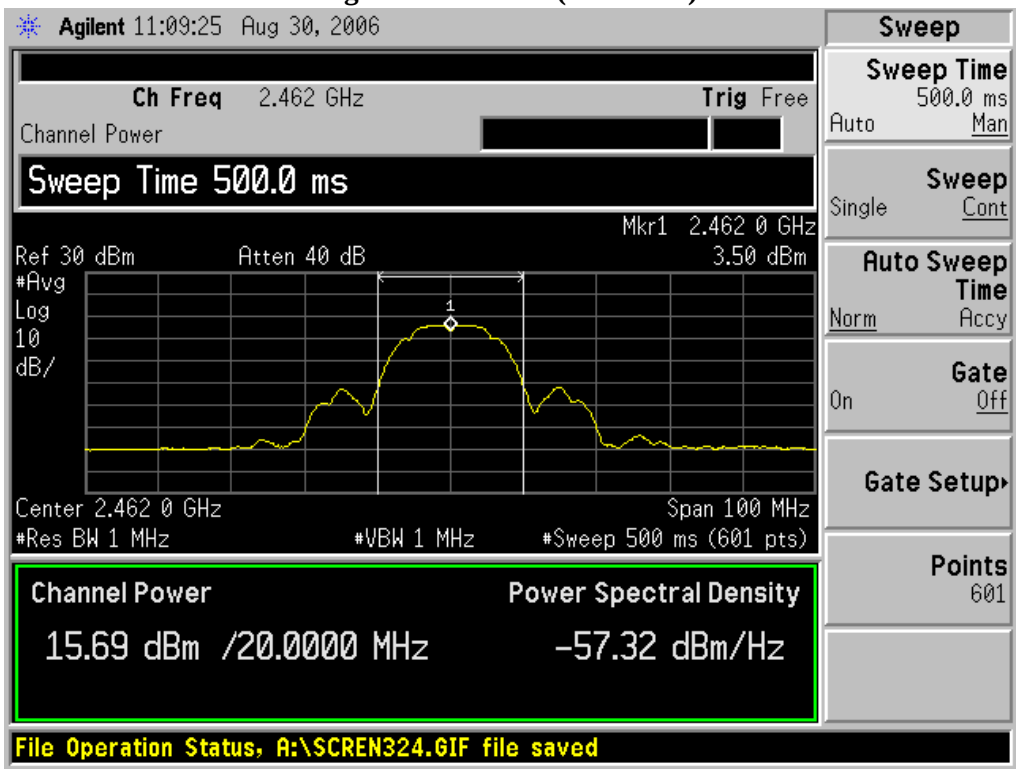


Figure Channel 11 (2462MHz)



Product	Home Gateway		
Test Item	Peak Output Power		
Test Mode	Mode2: Transmitter 802.11g		
Date of Test	2006/08/30	Test Site	AC-3

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
01	2412.00	12.15	1 Watt= 30 dBm	Pass
06	2437.00	11.96	1 Watt= 30 dBm	Pass
11	2462.00	12.13	1 Watt= 30 dBm	Pass

Figure Channel 01 (2412MHz)

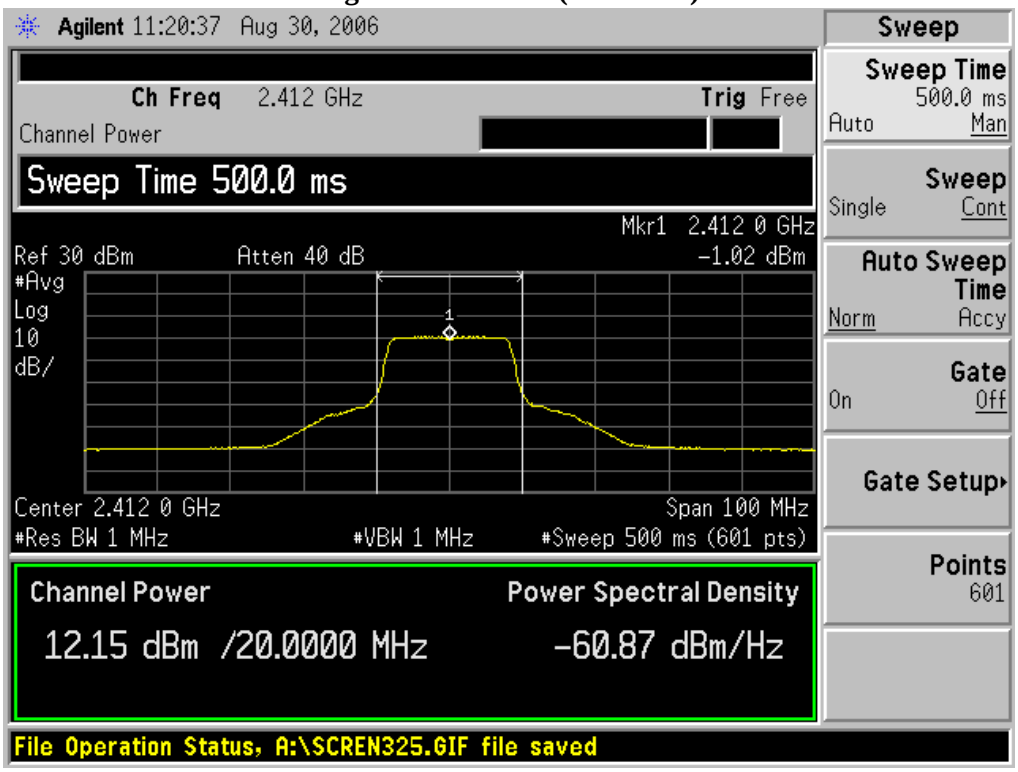


Figure Channel 06 (2437MHz)

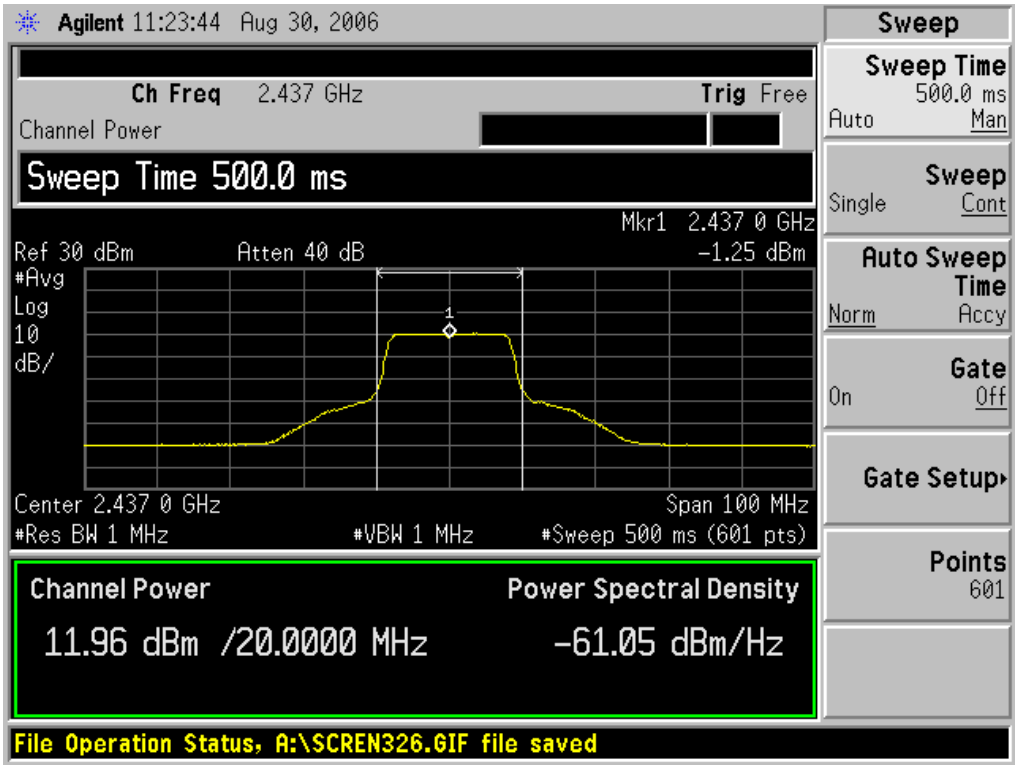
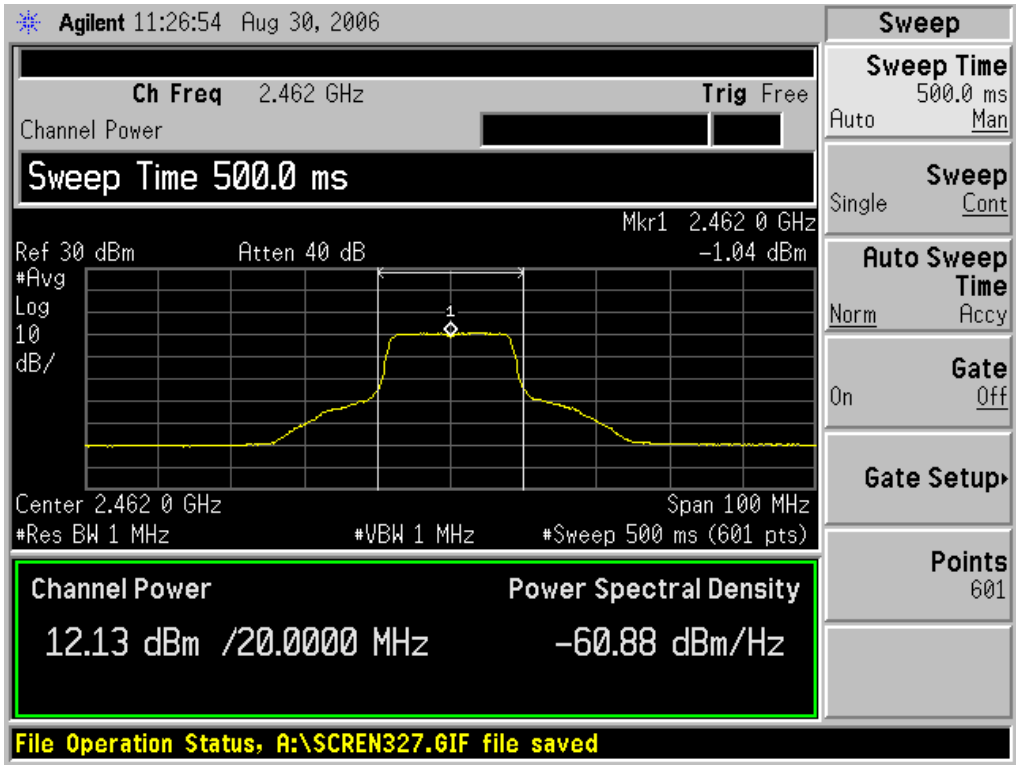


Figure Channel 11 (2462MHz)



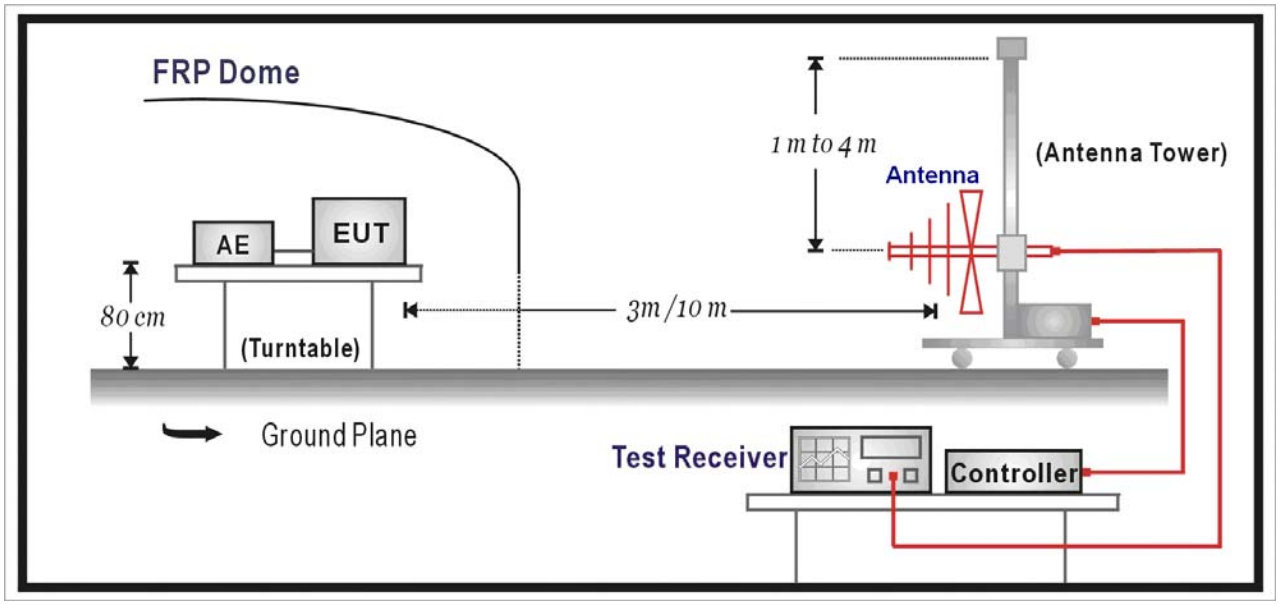
5. Radiated Emission

5.1. Test Specification

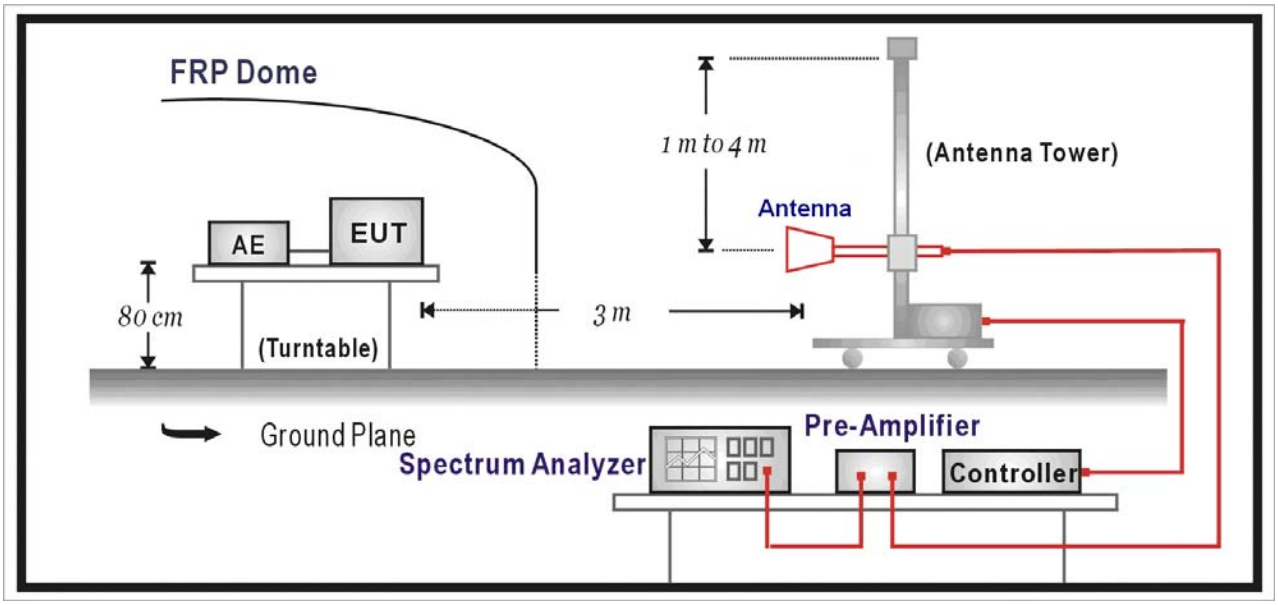
According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.209

5.2. Test Setup

Under 1GHz Test Setup



Above 1GHz Test Setup



5.3. Limit

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

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBuV/m	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	See Remark[1]	300
0.490-1.705	24000/F(kHz)	See Remark[1]	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

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

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 on radiated measurement.
On the field strength of fundamental and harmonics, the limits shown are based on measuring equipment employing a average detector function. As an alternative, compliance with the limits may be based on the use of measurement instrumentation with a CISPR quasi-peak detector.
On the field strength of spurious electric, on any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function.

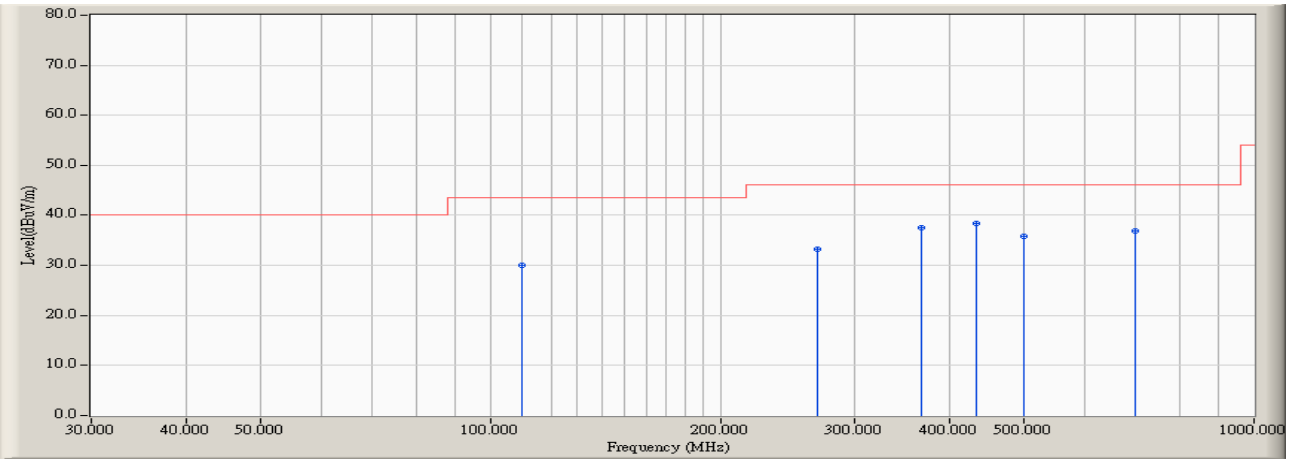
When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

5.5. Deviation from Test Standard

No deviation.

5.6. Test Result

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 08:48**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

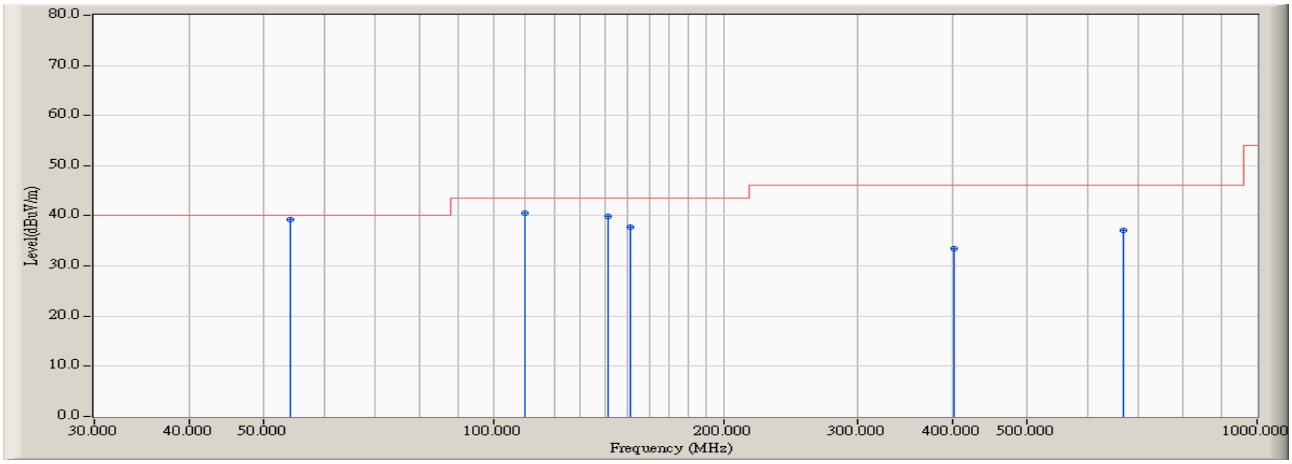


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		110.025	-10.580	40.587	30.007	-13.513	43.520	QUASIPEAK
2		267.650	-8.432	41.571	33.139	-12.881	46.020	QUASIPEAK
3		367.075	-5.808	43.243	37.435	-8.585	46.020	QUASIPEAK
4	*	432.550	-4.117	42.615	38.498	-7.522	46.020	QUASIPEAK
5		500.450	-2.776	38.686	35.910	-10.110	46.020	QUASIPEAK
6		699.300	-0.508	37.393	36.885	-9.135	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 08:58**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

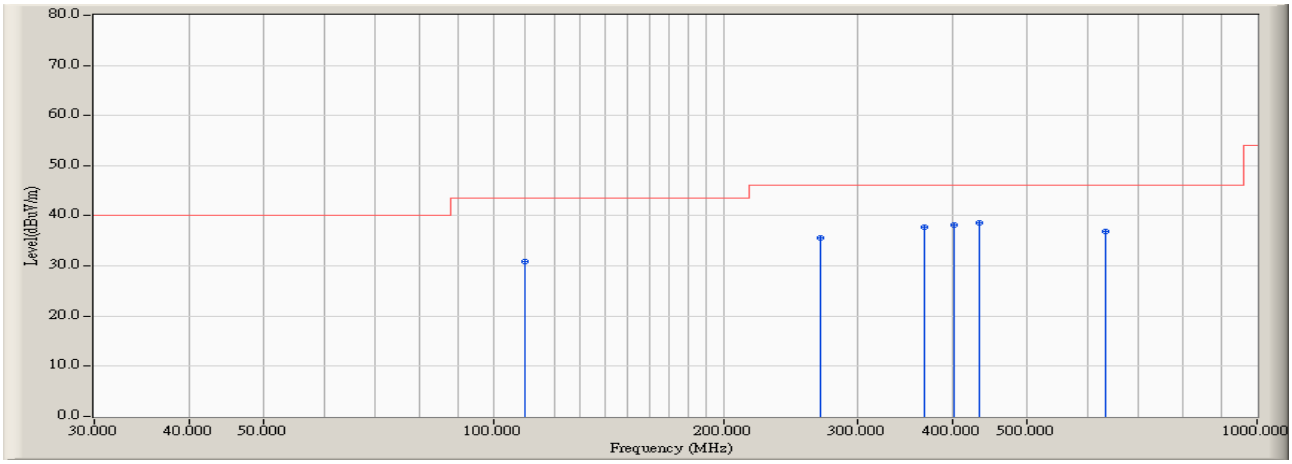


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	54.250	-15.886	55.190	39.304	-0.696	40.000	QUASIPEAK
2		110.025	-10.580	51.115	40.535	-2.985	43.520	QUASIPEAK
3		141.550	-10.944	50.773	39.829	-3.691	43.520	QUASIPEAK
4		151.250	-11.757	49.472	37.715	-5.805	43.520	QUASIPEAK
5		401.025	-4.473	37.912	33.439	-12.581	46.020	QUASIPEAK
6		667.775	-0.828	37.849	37.021	-8.999	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 10:43**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

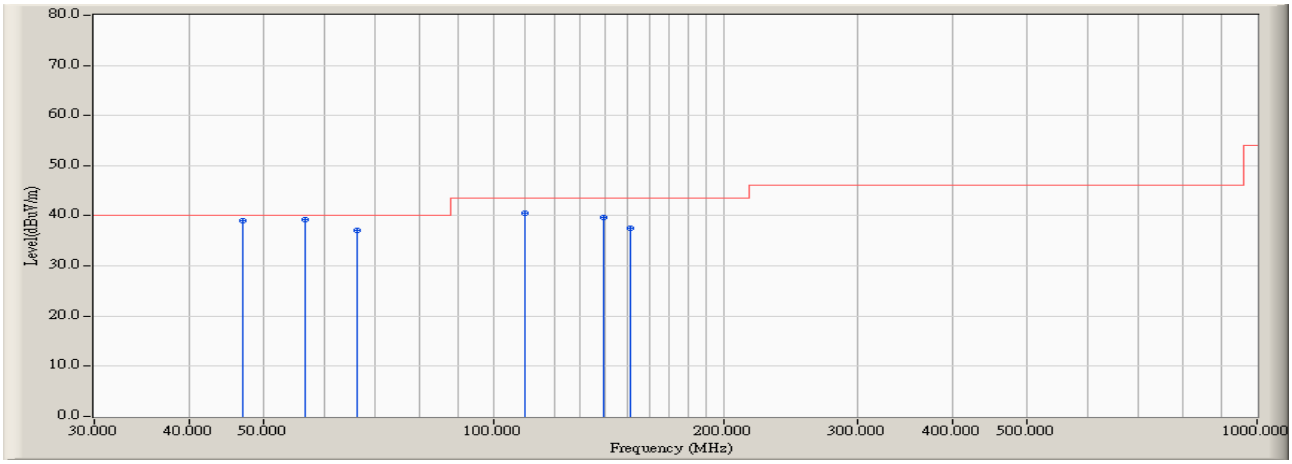


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		110.025	-10.580	41.482	30.902	-12.618	43.520	QUASIPEAK
2		267.650	-8.432	43.971	35.539	-10.481	46.020	QUASIPEAK
3		367.075	-5.808	43.548	37.740	-8.280	46.020	QUASIPEAK
4		401.025	-4.473	42.702	38.229	-7.791	46.020	QUASIPEAK
5	*	432.550	-4.117	42.813	38.696	-7.324	46.020	QUASIPEAK
6		633.825	-0.775	37.667	36.892	-9.128	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 10:56**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

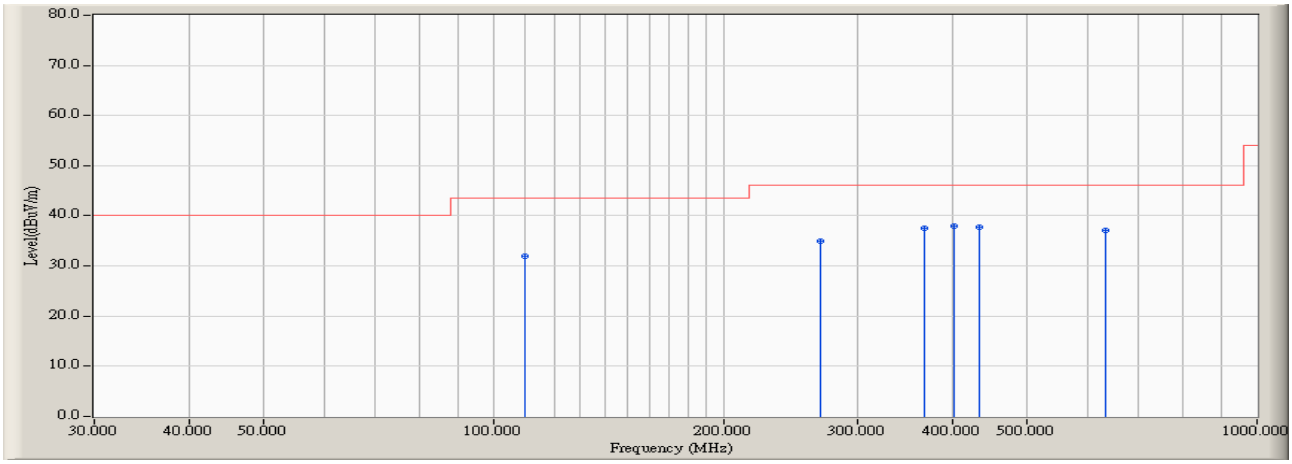


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.975	-13.358	52.371	39.013	-0.987	40.000	QUASIPEAK
2	*	56.675	-16.533	55.821	39.288	-0.712	40.000	QUASIPEAK
3		66.375	-17.094	54.261	37.167	-2.833	40.000	QUASIPEAK
4		110.025	-10.580	51.014	40.434	-3.086	43.520	QUASIPEAK
5		139.125	-10.791	50.558	39.767	-3.753	43.520	QUASIPEAK
6		151.250	-11.757	49.269	37.512	-6.008	43.520	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:04**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

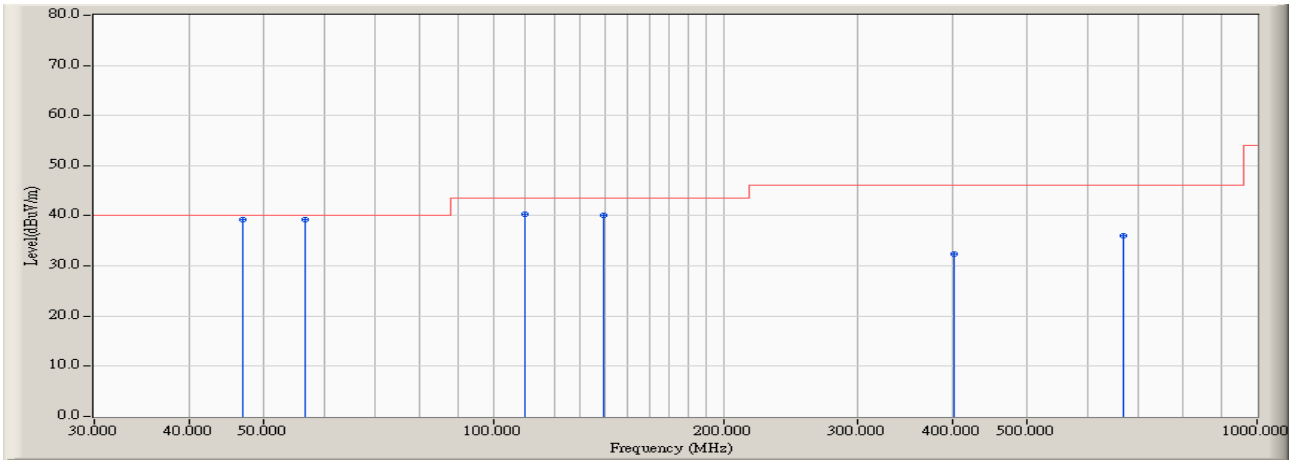


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		110.025	-10.580	42.570	31.990	-11.530	43.520	QUASIPEAK
2		267.650	-8.432	43.462	35.030	-10.990	46.020	QUASIPEAK
3		367.075	-5.808	43.236	37.428	-8.592	46.020	QUASIPEAK
4	*	401.025	-4.473	42.486	38.013	-8.007	46.020	QUASIPEAK
5		432.550	-4.117	41.948	37.831	-8.189	46.020	QUASIPEAK
6		633.825	-0.775	37.864	37.089	-8.931	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:14**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

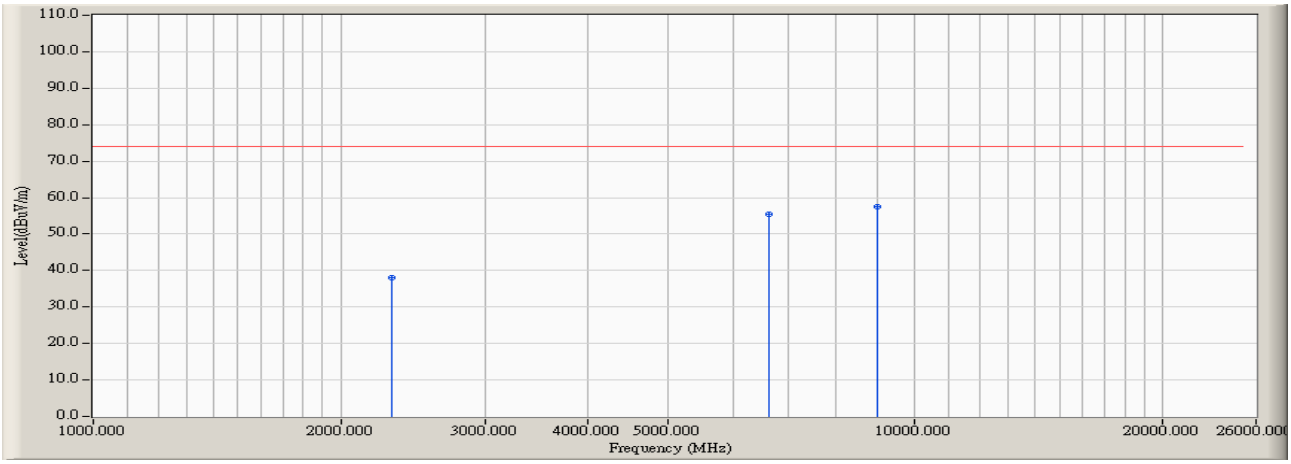


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.975	-13.358	52.509	39.151	-0.849	40.000	QUASIPEAK
2	*	56.675	-16.533	55.779	39.246	-0.754	40.000	QUASIPEAK
3		110.025	-10.580	50.872	40.292	-3.228	43.520	QUASIPEAK
4		139.125	-10.791	50.812	40.021	-3.499	43.520	QUASIPEAK
5		401.025	-4.473	36.752	32.279	-13.741	46.020	QUASIPEAK
6		667.775	-0.828	36.948	36.120	-9.900	46.020	QUASIPEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 13:52**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

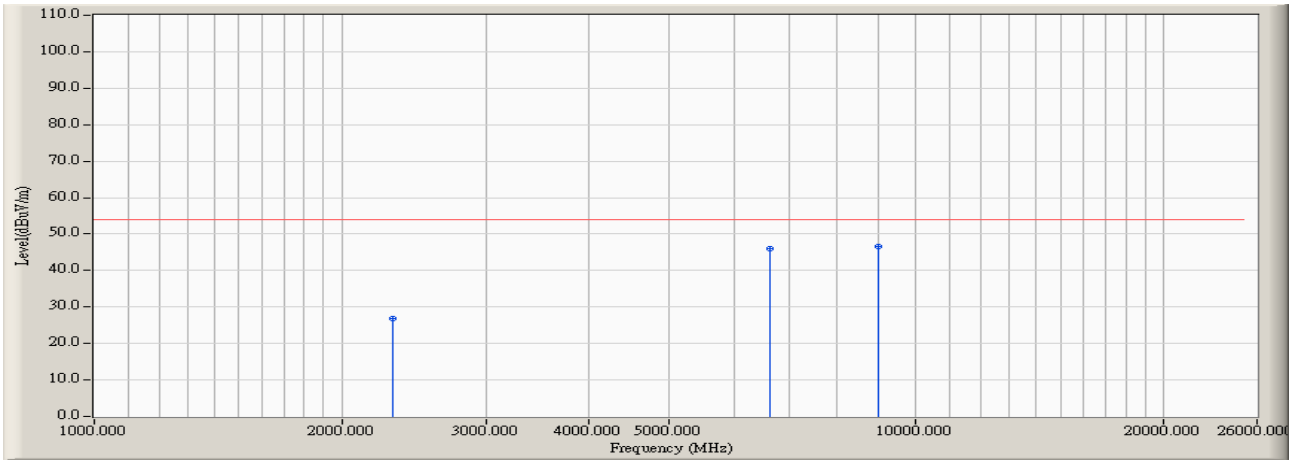


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2307.500	-1.600	39.697	38.097	-35.903	74.000	PEAK
2		6627.500	12.584	42.737	55.321	-18.679	74.000	PEAK
3	*	8987.500	15.766	41.861	57.627	-16.373	74.000	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 13:52**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

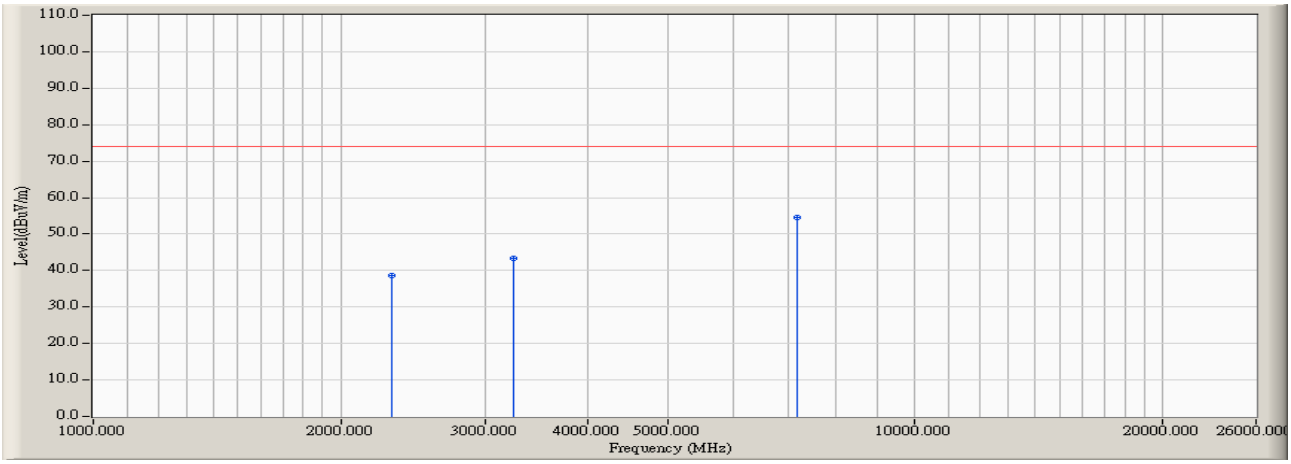


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2307.500	-1.600	28.360	26.760	-27.240	54.000	AVERAGE
2		6627.500	12.584	33.336	45.920	-8.080	54.000	AVERAGE
3	*	8987.500	15.766	30.870	46.636	-7.364	54.000	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

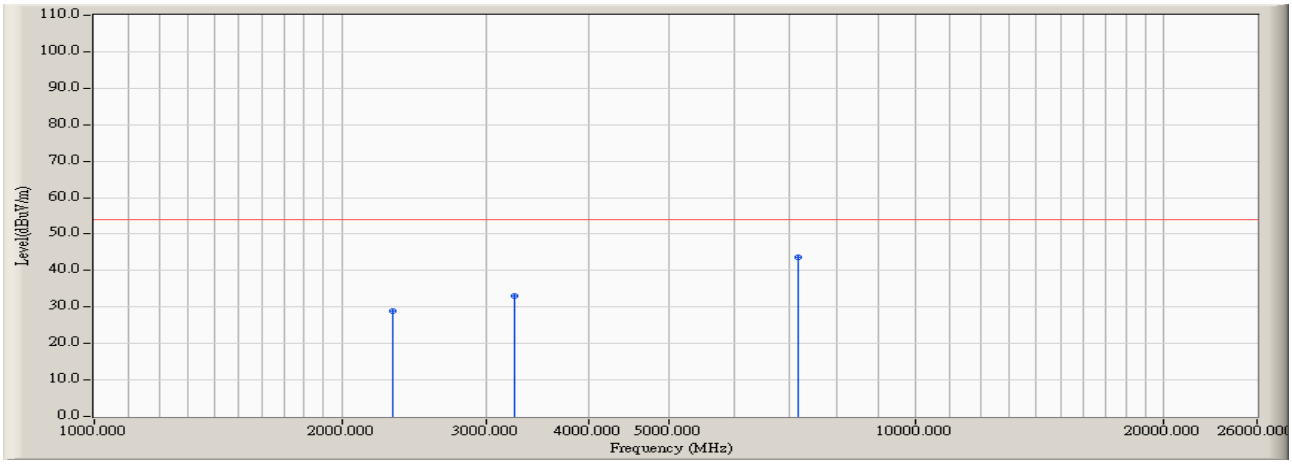


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2312.500	-1.604	40.252	38.648	-35.322	73.970	PEAK
2		3250.000	-0.270	43.490	43.219	-30.751	73.970	PEAK
3	*	7187.500	15.397	39.218	54.616	-19.354	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:06**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2412MHz)**

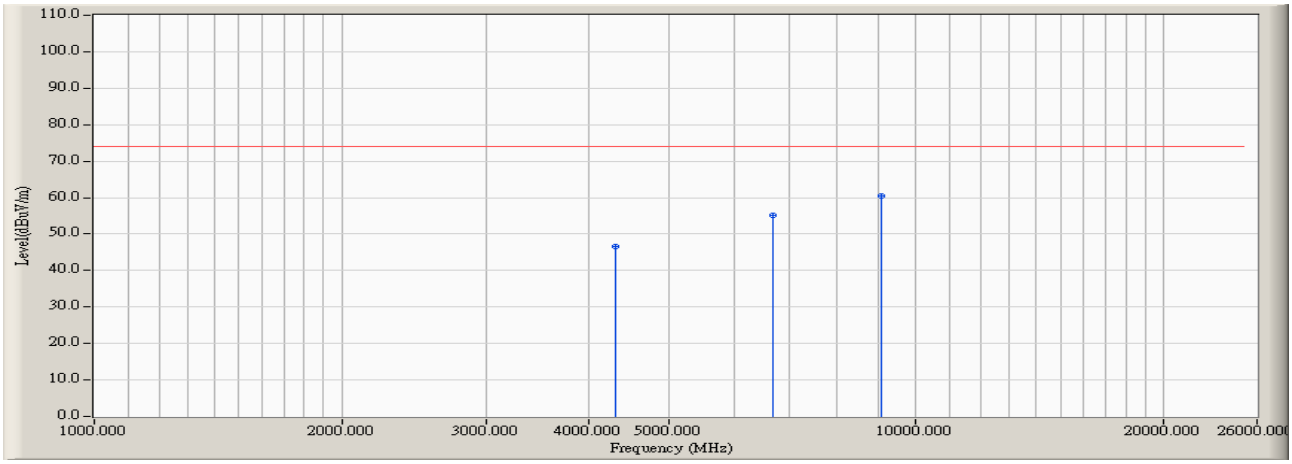


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2312.500	-1.604	30.550	28.946	-25.024	53.970	AVERAGE
2		3250.000	-0.270	33.170	32.899	-21.071	53.970	AVERAGE
3	*	7187.500	15.397	28.360	43.758	-10.212	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 13:58**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

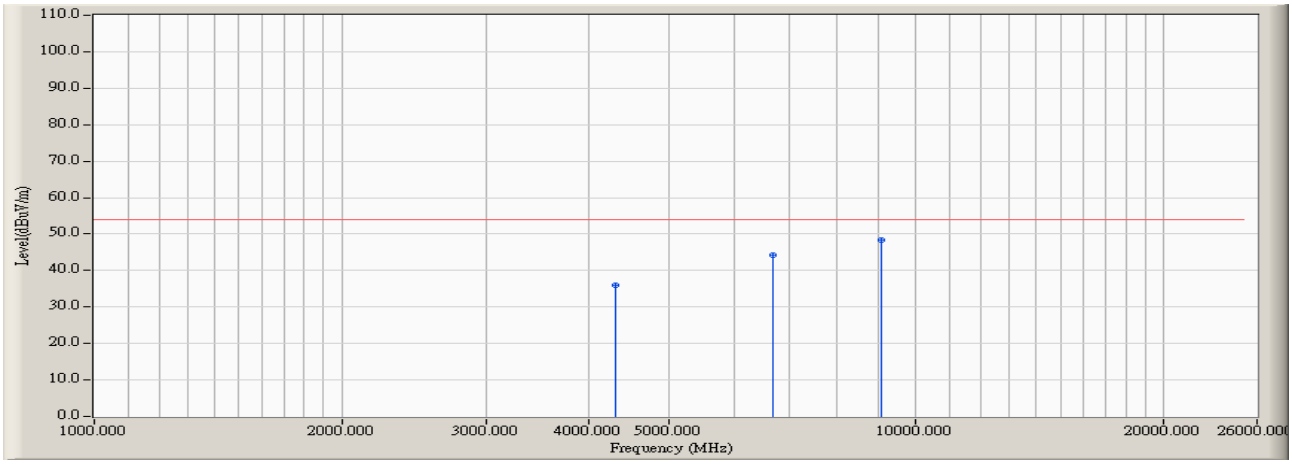


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4312.500	3.363	43.226	46.589	-27.411	74.000	PEAK
2		6687.500	13.108	42.162	55.270	-18.730	74.000	PEAK
3	*	9062.500	15.923	44.492	60.415	-13.585	74.000	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 13:58**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

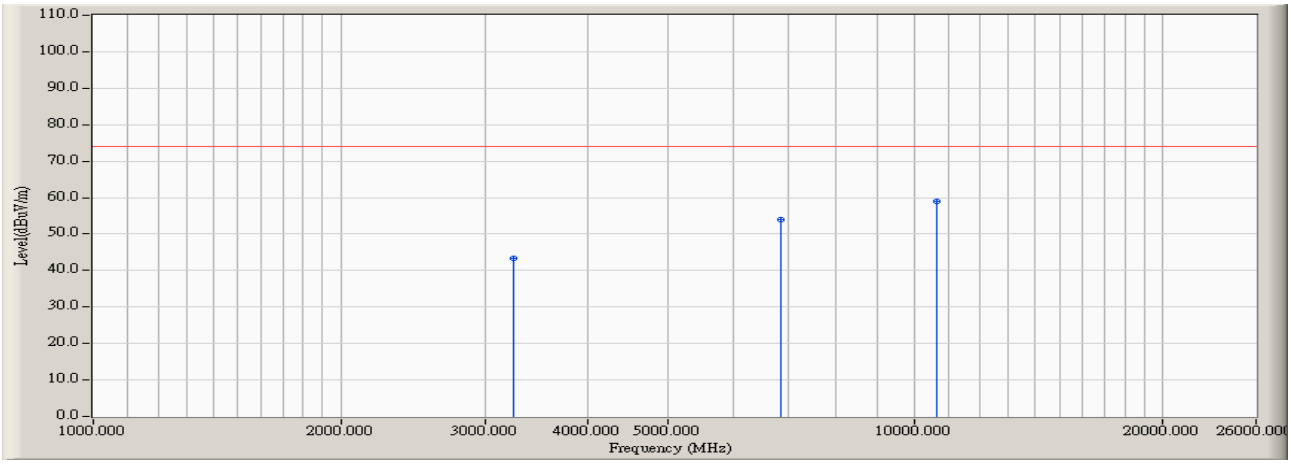


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4312.500	3.363	32.660	36.023	-17.977	54.000	AVERAGE
2		6687.500	13.108	31.060	44.168	-9.832	54.000	AVERAGE
3	*	9062.000	15.922	32.580	48.502	-5.498	54.000	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:10**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

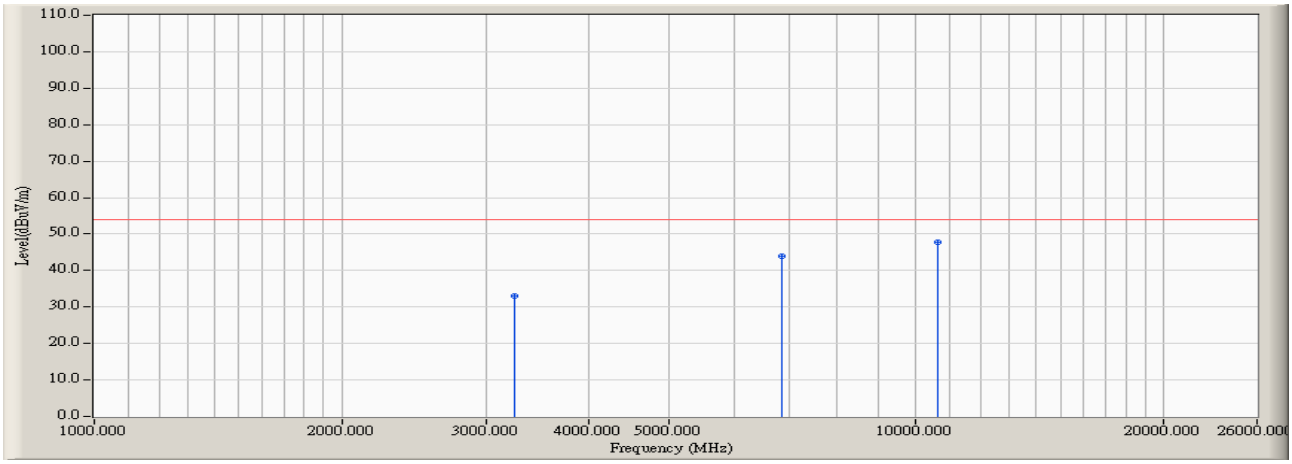


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3250.000	-0.270	43.490	43.219	-30.751	73.970	PEAK
2		6875.000	14.284	39.575	53.859	-20.111	73.970	PEAK
3	*	10625.000	19.318	39.718	59.035	-14.935	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:10**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2437MHz)**

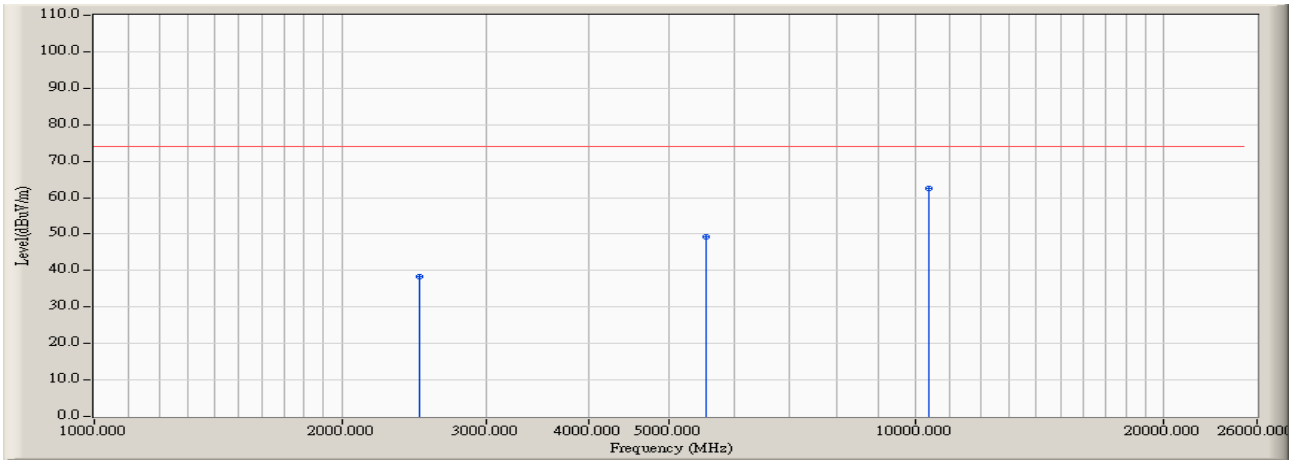


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3250.000	-0.270	33.160	32.889	-21.081	53.970	AVERAGE
2		6875.000	14.284	29.770	44.054	-9.916	53.970	AVERAGE
3	*	10625.000	19.318	28.330	47.647	-6.323	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:08**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

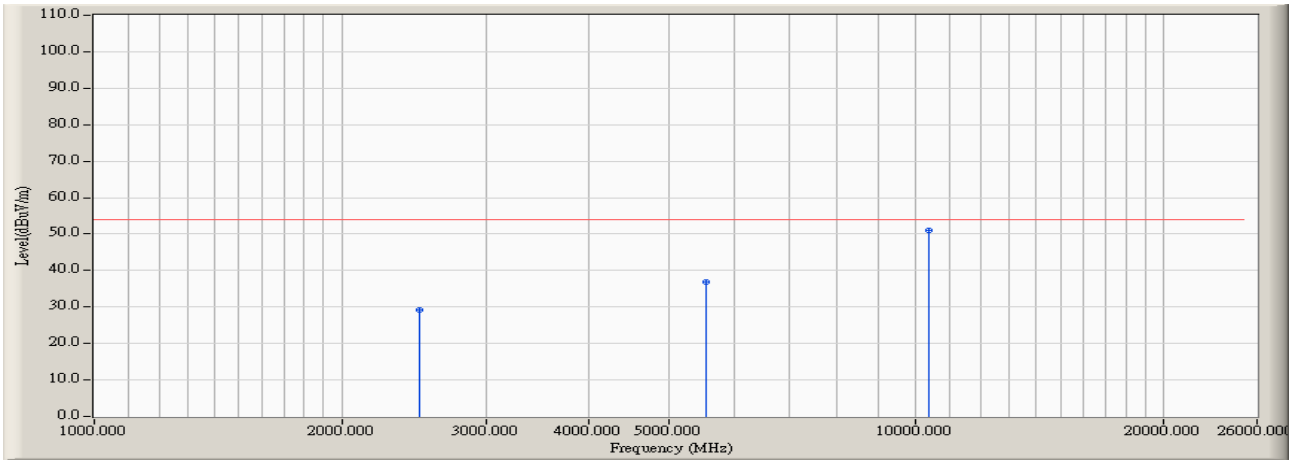


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2485.000	-1.631	39.845	38.215	-35.785	74.000	PEAK
2		5562.500	6.797	42.566	49.363	-24.637	74.000	PEAK
3	*	10375.000	18.794	43.720	62.514	-11.486	74.000	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:08**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

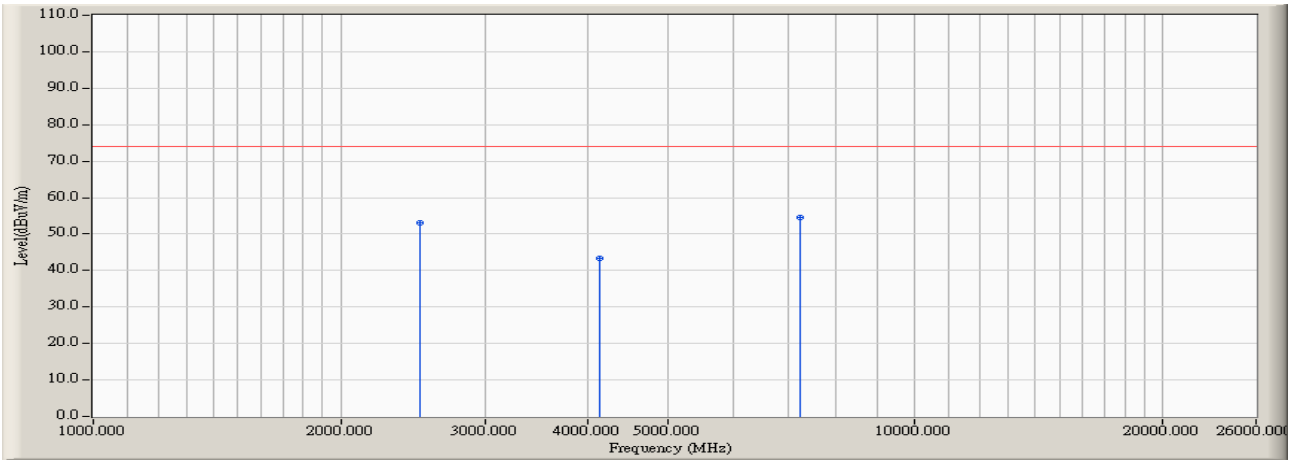


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2485.000	-1.631	30.680	29.050	-24.950	54.000	AVERAGE
2		5562.500	6.797	30.110	36.907	-17.093	54.000	AVERAGE
3	*	10375.000	18.794	32.160	50.954	-3.046	54.000	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:13**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

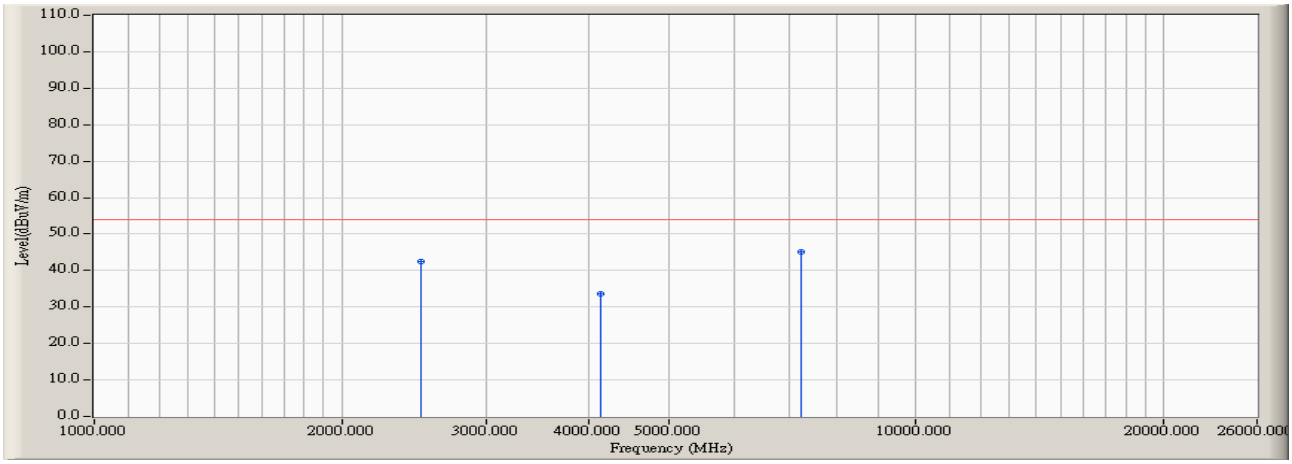


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2495.000	-1.629	54.634	53.004	-20.966	73.970	PEAK
2		4125.000	2.966	40.460	43.426	-30.544	73.970	PEAK
3	*	7250.000	15.387	39.063	54.450	-19.520	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:13**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode1: Transmit 802.11b(2462MHz)**

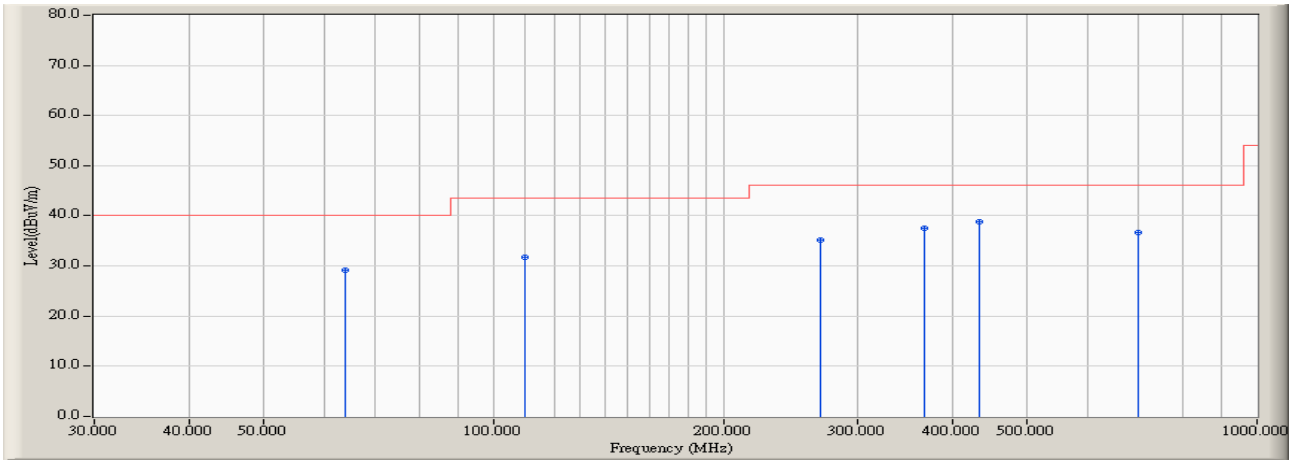


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2495.000	-1.629	44.100	42.470	-11.500	53.970	AVERAGE
2		4125.000	2.966	30.680	33.646	-20.324	53.970	AVERAGE
3	*	7250.000	15.387	29.680	45.067	-8.903	53.970	AVERAGE

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:29**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

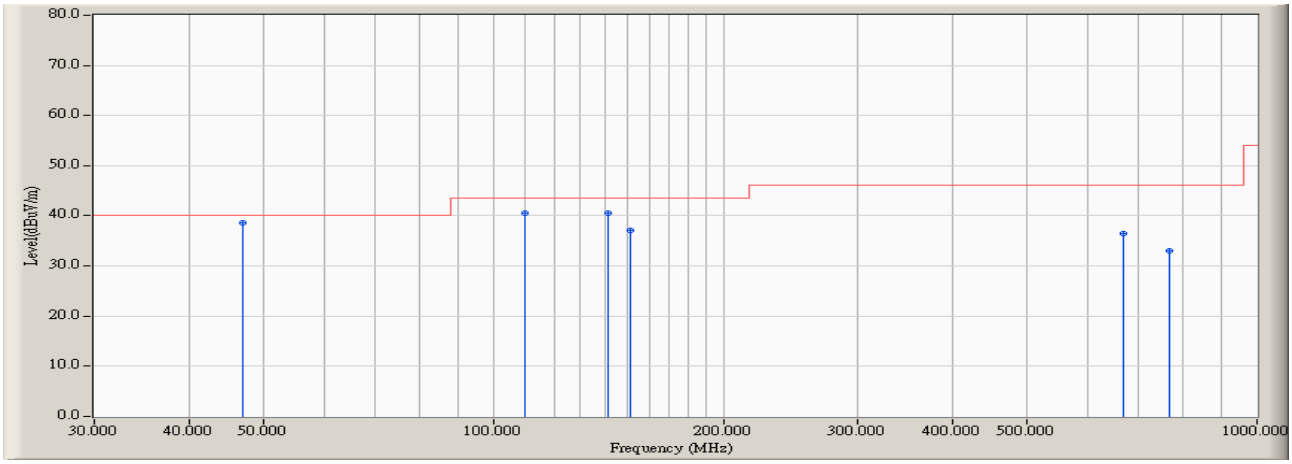


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		63.950	-17.171	46.324	29.153	-10.847	40.000	QUASIPEAK
2		110.025	-10.580	42.227	31.647	-11.873	43.520	QUASIPEAK
3		267.650	-8.432	43.553	35.121	-10.899	46.020	QUASIPEAK
4		367.075	-5.808	43.373	37.565	-8.455	46.020	QUASIPEAK
5	*	432.550	-4.117	42.860	38.743	-7.277	46.020	QUASIPEAK
6		699.300	-0.508	37.259	36.751	-9.269	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:38**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

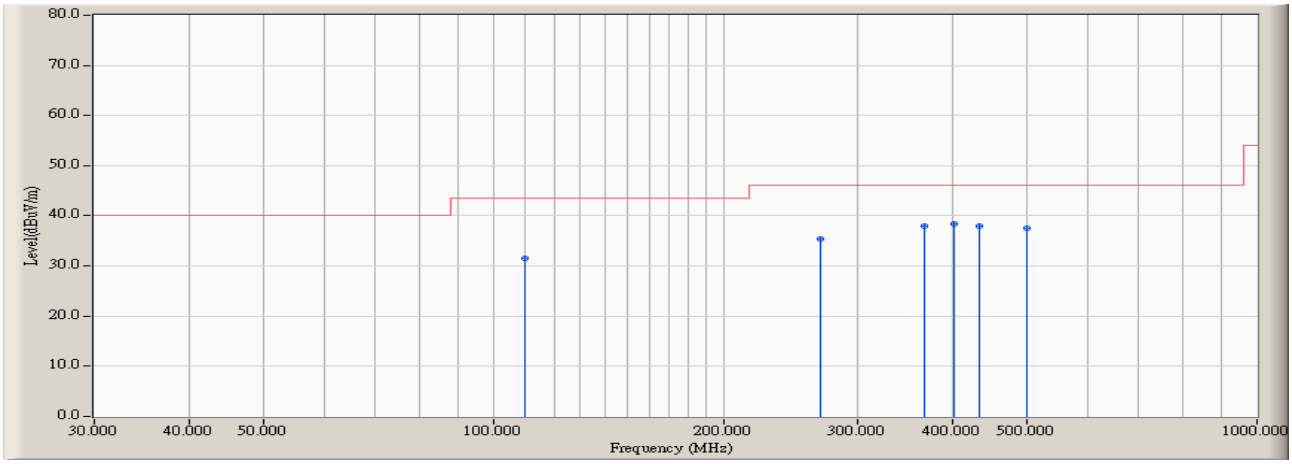


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	46.975	-13.358	51.978	38.620	-1.380	40.000	QUASIPEAK
2		110.025	-10.580	51.098	40.518	-3.002	43.520	QUASIPEAK
3		141.550	-10.944	51.415	40.471	-3.049	43.520	QUASIPEAK
4		151.250	-11.757	48.964	37.207	-6.313	43.520	QUASIPEAK
5		667.775	-0.828	37.250	36.422	-9.598	46.020	QUASIPEAK
6		767.200	0.660	32.366	33.026	-12.994	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:46**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

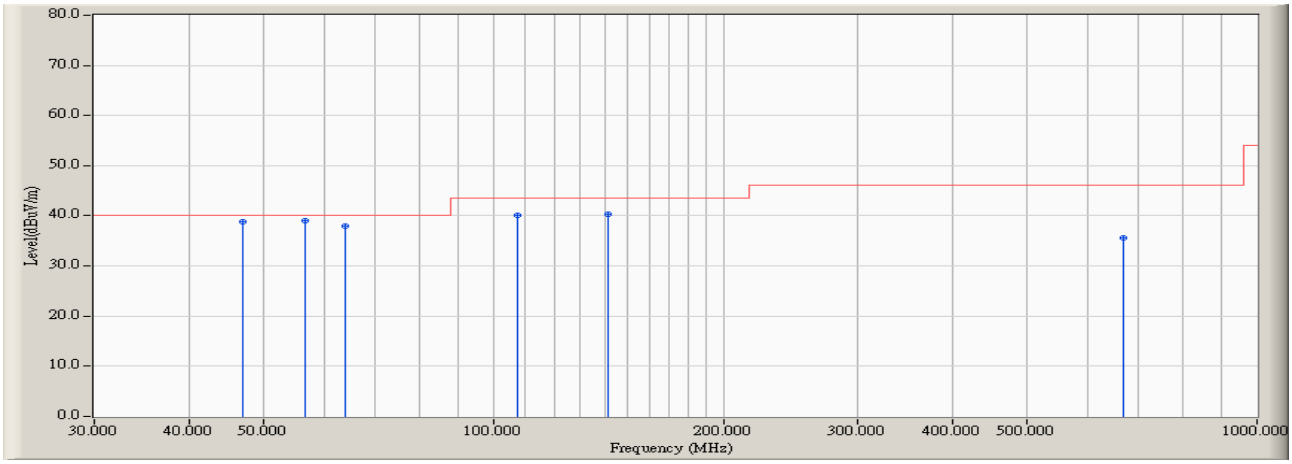


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		110.025	-10.580	42.170	31.590	-11.930	43.520	QUASIPEAK
2		267.650	-8.432	43.761	35.329	-10.691	46.020	QUASIPEAK
3		367.075	-5.808	43.733	37.925	-8.095	46.020	QUASIPEAK
4	*	401.025	-4.473	42.806	38.333	-7.687	46.020	QUASIPEAK
5		432.550	-4.117	42.145	38.028	-7.992	46.020	QUASIPEAK
6		500.450	-2.776	40.333	37.557	-8.463	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 11:54**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

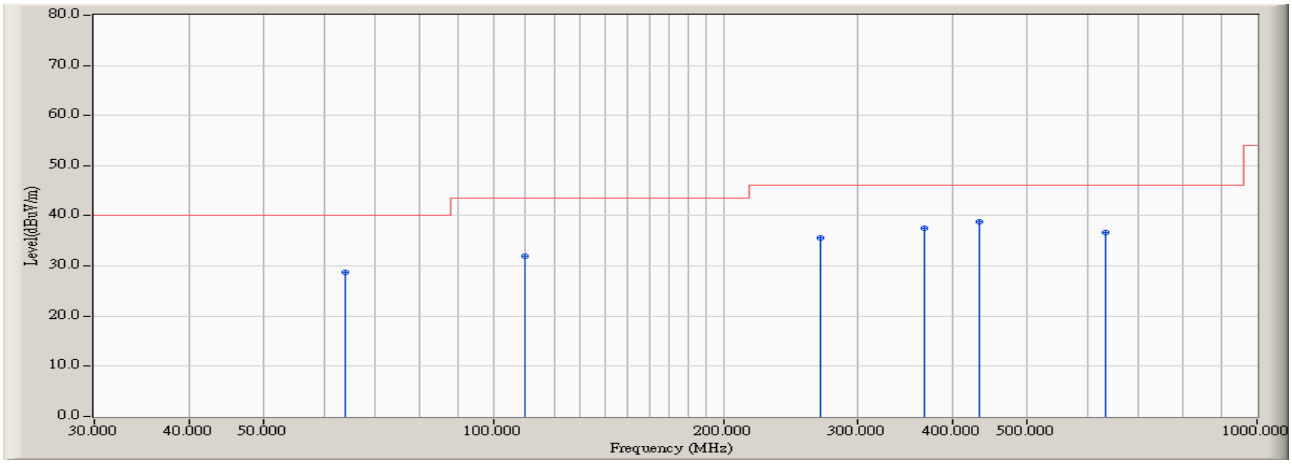


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.975	-13.358	52.116	38.758	-1.242	40.000	QUASIPEAK
2	*	56.675	-16.533	55.629	39.096	-0.904	40.000	QUASIPEAK
3		63.950	-17.171	55.221	38.050	-1.950	40.000	QUASIPEAK
4		107.600	-10.691	50.886	40.195	-3.325	43.520	QUASIPEAK
5		141.550	-10.944	51.193	40.249	-3.271	43.520	QUASIPEAK
6		667.775	-0.828	36.485	35.657	-10.363	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 12:02**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**

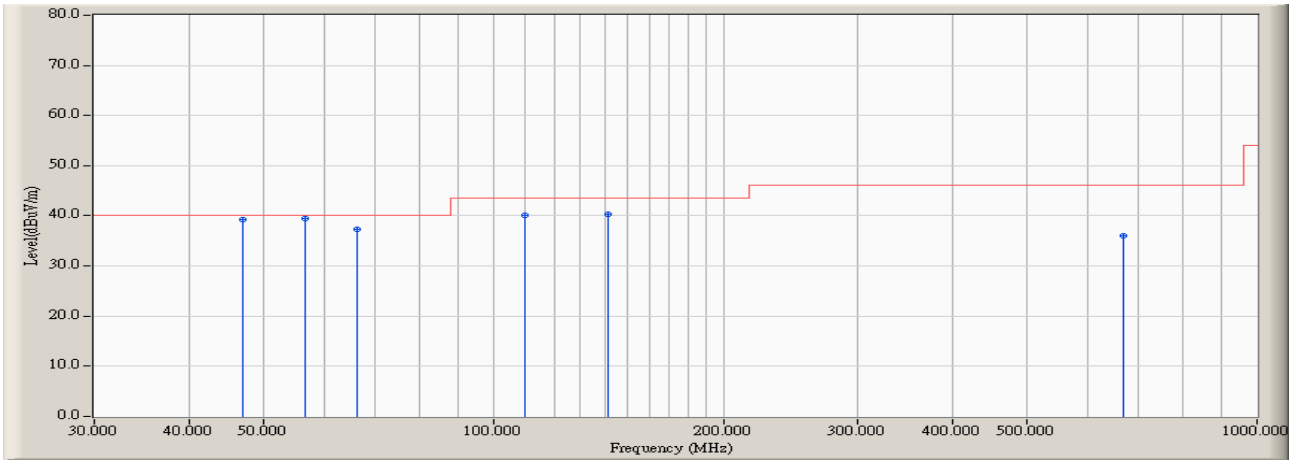


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		63.950	-17.171	45.871	28.700	-11.300	40.000	QUASIPEAK
2		110.025	-10.580	42.511	31.931	-11.589	43.520	QUASIPEAK
3		267.650	-8.432	44.047	35.615	-10.405	46.020	QUASIPEAK
4		367.075	-5.808	43.331	37.523	-8.497	46.020	QUASIPEAK
5	*	432.550	-4.117	42.855	38.738	-7.282	46.020	QUASIPEAK
6		633.825	-0.775	37.439	36.664	-9.356	46.020	QUASIPEAK

Note:

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

Engineer : John	
Site : AC-2	**Time : 2006/08/29 - 12:11**
Limit : FCC_SpartC_15.209_03M_QP	**Margin : 0**
EUT : Home Gateway	**Probe : CBL6112B_2932(30-2000MHz) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**

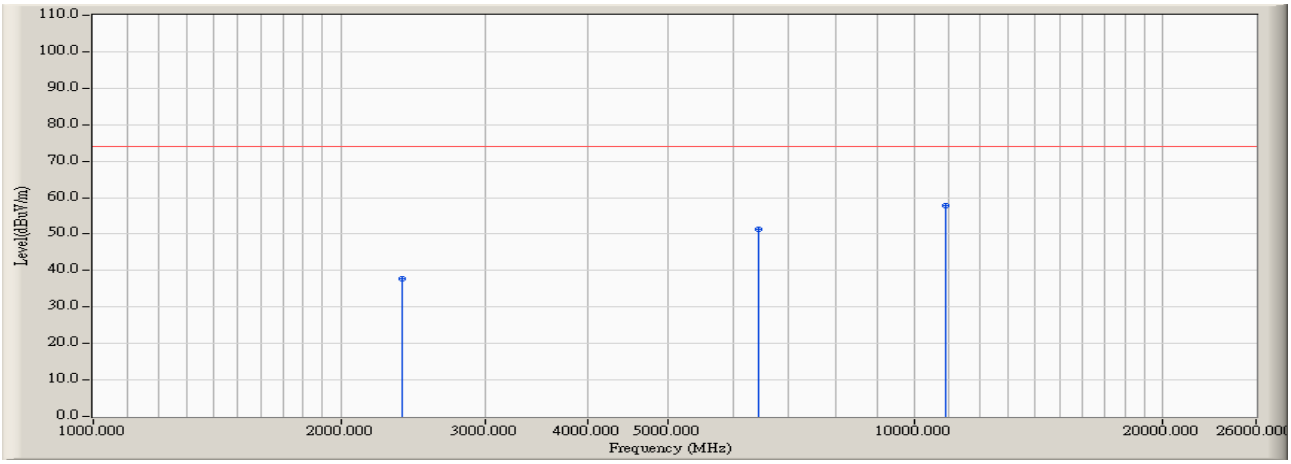


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.975	-13.358	52.579	39.221	-0.779	40.000	QUASIPEAK
2	*	56.675	-16.533	56.037	39.504	-0.496	40.000	QUASIPEAK
3		66.375	-17.094	54.438	37.344	-2.656	40.000	QUASIPEAK
4		110.025	-10.580	50.772	40.192	-3.328	43.520	QUASIPEAK
5		141.550	-10.944	51.339	40.395	-3.125	43.520	QUASIPEAK
6		667.775	-0.828	36.938	36.110	-9.910	46.020	QUASIPEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

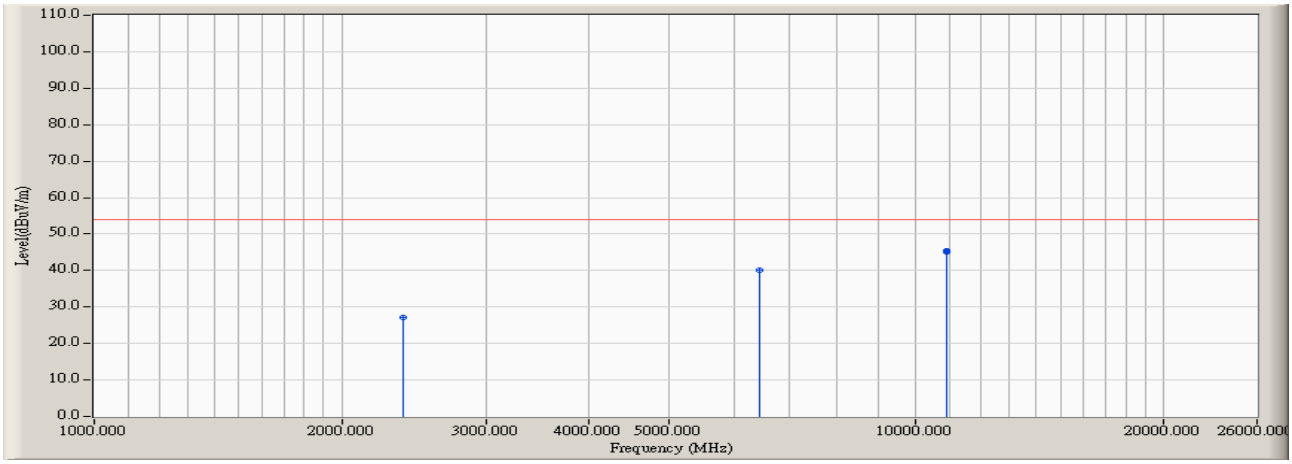


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2375.000	-1.648	39.367	37.718	-36.252	73.970	PEAK
2		6437.500	11.416	39.864	51.279	-22.691	73.970	PEAK
3	*	10875.000	19.945	37.830	57.774	-16.196	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:29**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

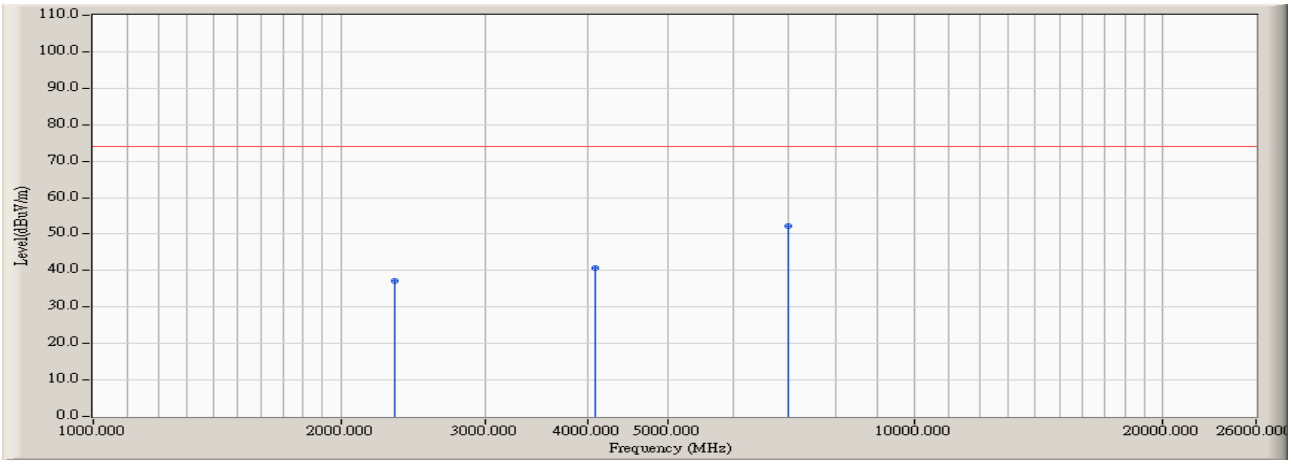


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2375.000	-1.648	28.660	27.011	-26.959	53.970	AVERAGE
2		6437.500	11.416	28.660	40.075	-13.895	53.970	AVERAGE
3		10875.000	19.945	25.110	45.054	-8.916	53.970	AVERAGE
4	*	10875.000	19.945	25.380	45.324	-8.646	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:25**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

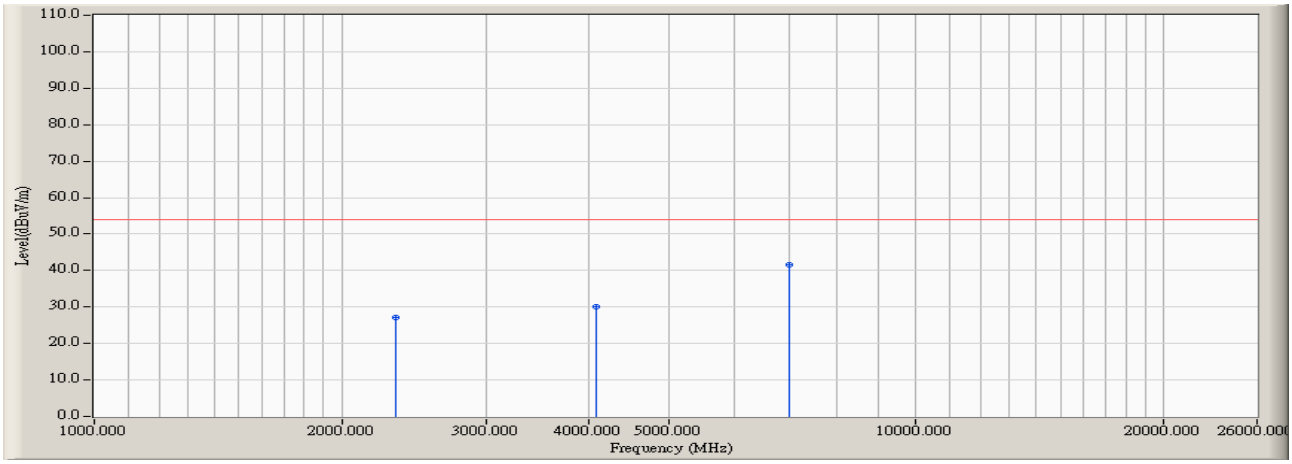


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2330.000	-1.620	38.842	37.222	-36.748	73.970	PEAK
2		4075.000	2.918	37.823	40.742	-33.228	73.970	PEAK
3	*	6997.500	14.640	37.674	52.314	-21.656	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:25**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2412MHz)**

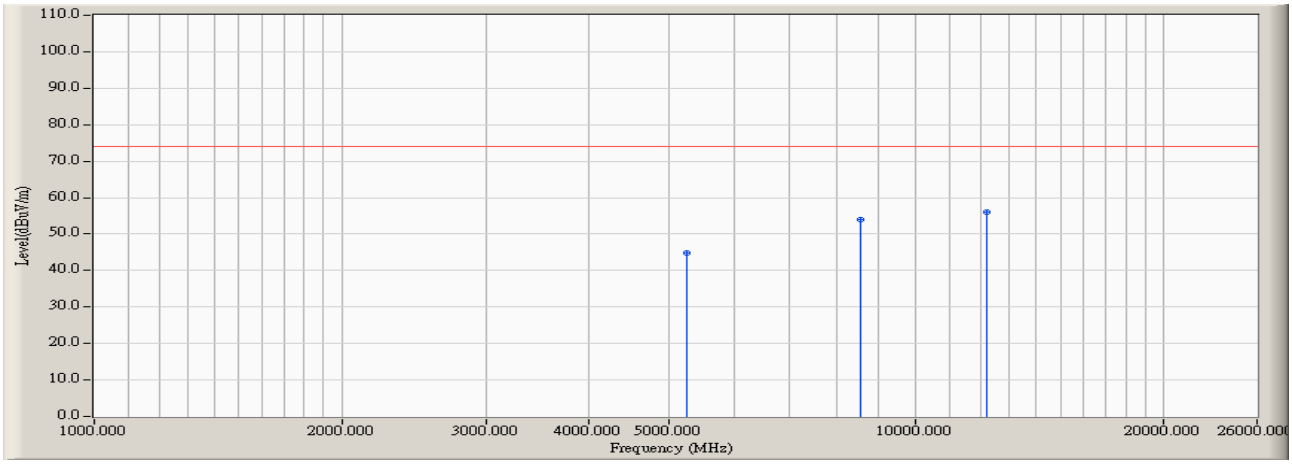


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2330.000	-1.620	28.660	27.040	-26.930	53.970	AVERAGE
2		4075.000	2.918	27.150	30.069	-23.901	53.970	AVERAGE
3	*	6997.500	14.640	26.890	41.530	-12.440	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:33**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

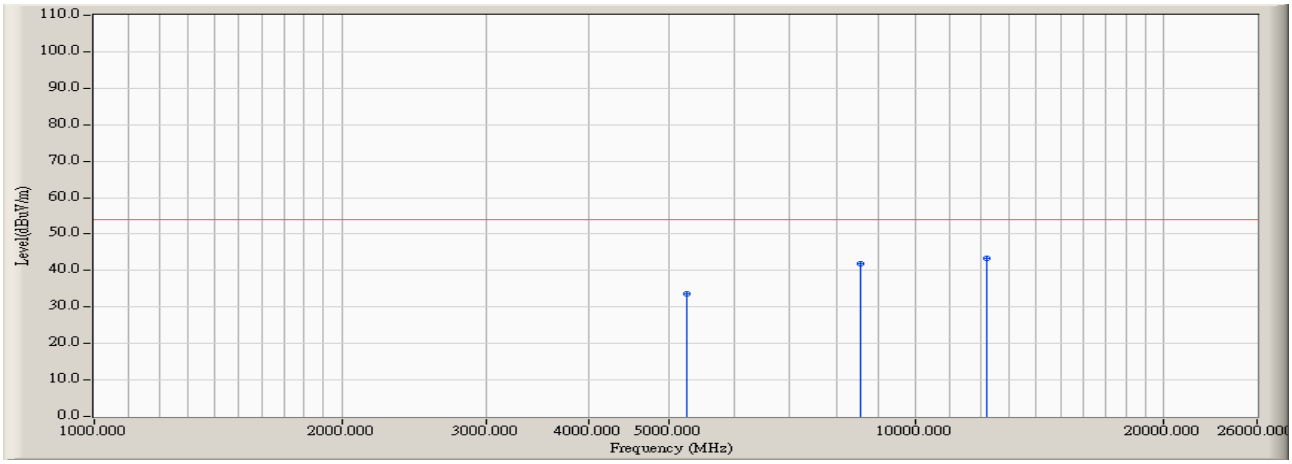


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5250.000	5.880	39.042	44.922	-29.048	73.970	PEAK
2		8562.500	14.840	39.044	53.884	-20.086	73.970	PEAK
3	*	12187.500	19.273	36.841	56.114	-17.856	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:33**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

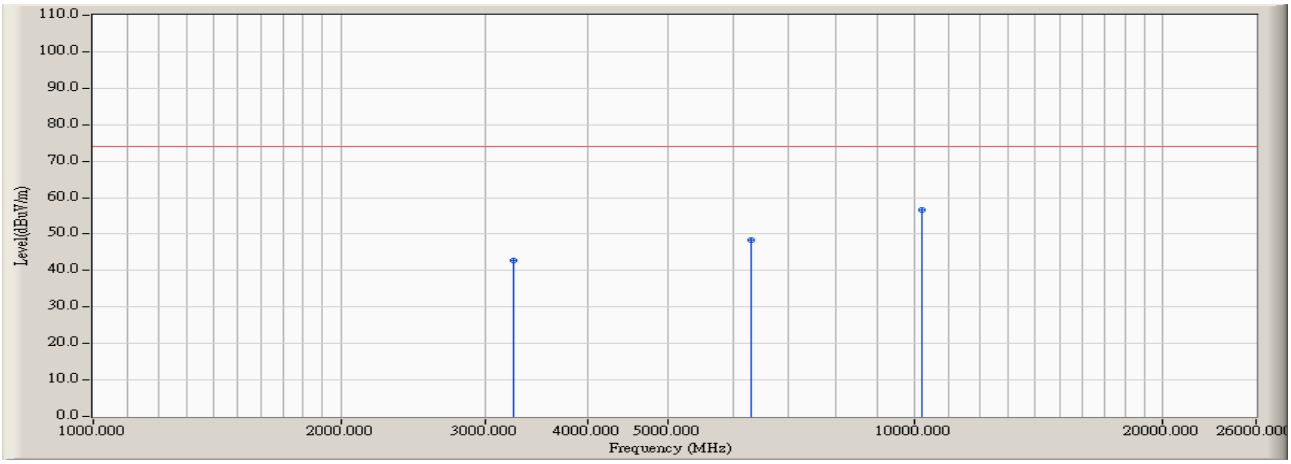


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5250.000	5.880	27.660	33.540	-20.430	53.970	AVERAGE
2		8562.500	14.840	27.110	41.950	-12.020	53.970	AVERAGE
3	*	12187.500	19.273	24.110	43.383	-10.587	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:27**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

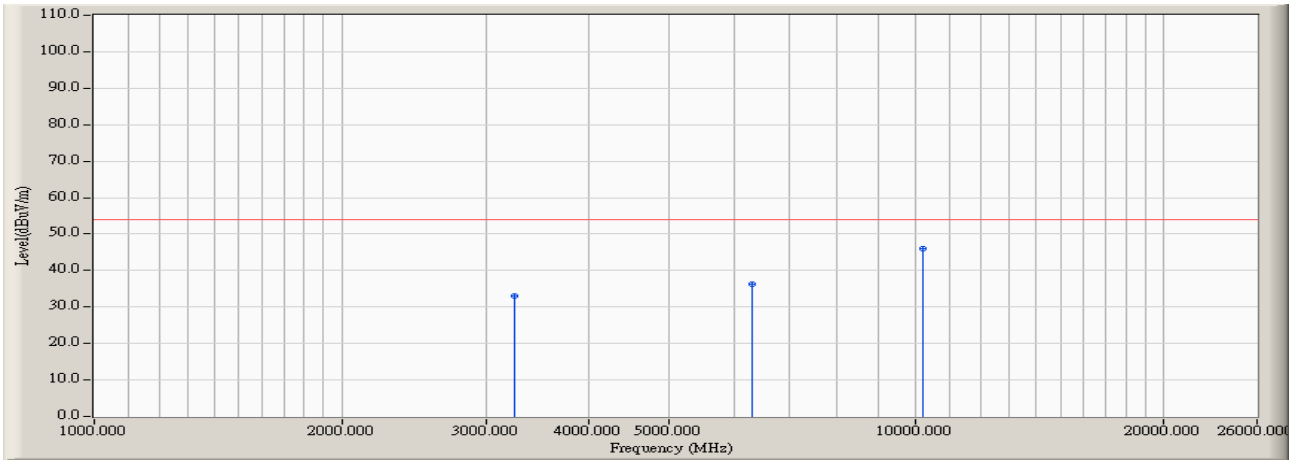


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3250.000	-0.270	43.148	42.877	-31.093	73.970	PEAK
2		6312.500	10.550	37.912	48.462	-25.508	73.970	PEAK
3	*	10187.500	18.483	38.083	56.566	-17.404	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 15:27**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2437MHz)**

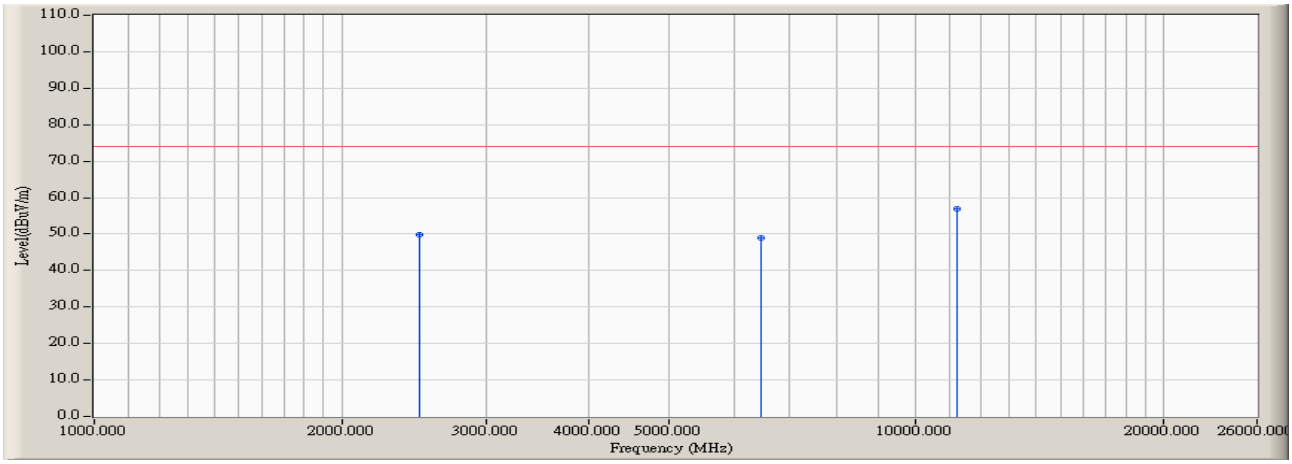


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		3250.000	-0.270	33.258	32.987	-20.983	53.970	AVERAGE
2		6312.500	10.550	25.660	36.210	-17.760	53.970	AVERAGE
3	*	10187.500	18.483	27.480	45.963	-8.007	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:41**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**

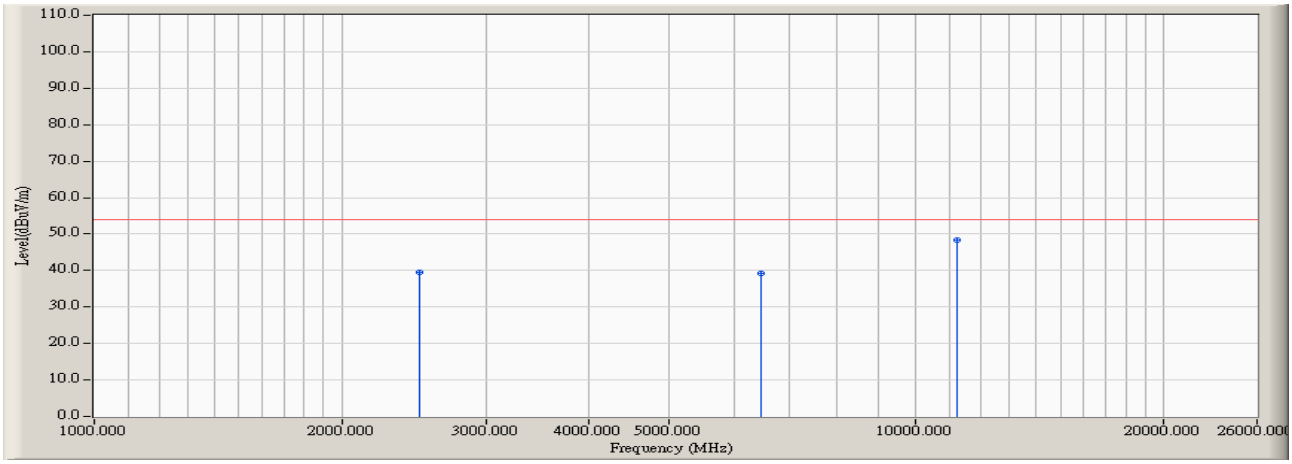


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2487.500	-1.630	51.485	49.855	-24.115	73.970	PEAK
2		6490.000	11.725	37.104	48.829	-25.141	73.970	PEAK
3	*	11197.500	19.962	37.027	56.990	-16.980	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/08/31 - 14:41**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**

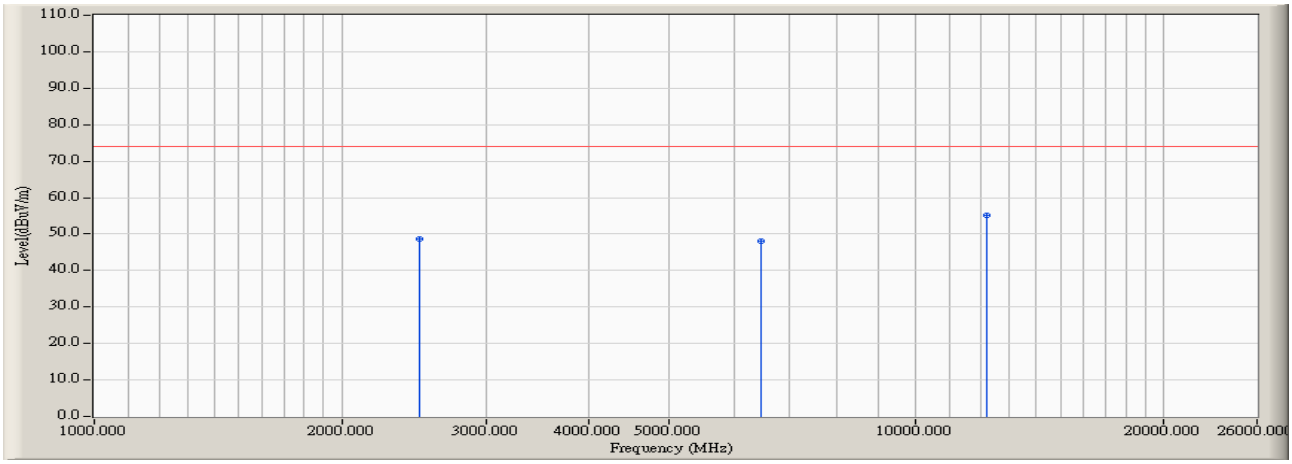


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2487.500	-1.630	41.220	39.590	-14.380	53.970	AVERAGE
2		6490.000	11.725	27.550	39.275	-14.695	53.970	AVERAGE
3	*	11197.500	19.962	28.330	48.293	-5.677	53.970	AVERAGE

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/09/01 - 09:57**
Limit : FCC_SpartC_15.109_03M_PK	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**

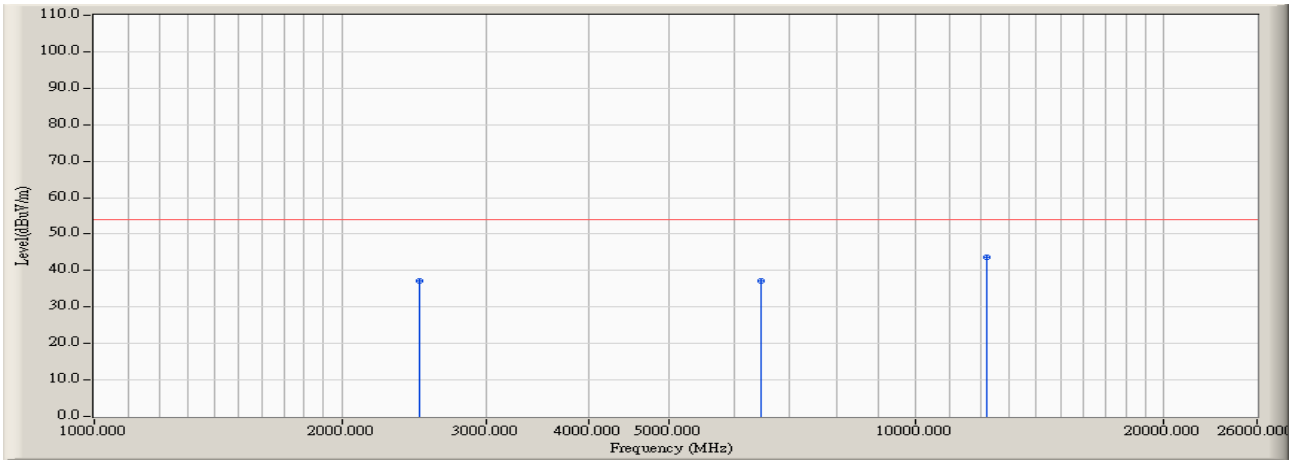


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2487.500	-1.630	50.336	48.706	-25.264	73.970	PEAK
2		6480.000	11.672	36.440	48.112	-25.858	73.970	PEAK
3	*	12197.000	19.290	35.890	55.179	-18.791	73.970	PEAK

Note:

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

Engineer : Johnwang	
Site : AC-2	**Time : 2006/09/01 - 09:57**
Limit : FCC_SpartC_15.109_03M_AV	**Margin : 0**
EUT : Home Gateway	**Probe : 9120D_(1G-18G) - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode2: Transmit 802.11g(2462MHz)**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2487.500	-1.630	38.650	37.020	-16.950	53.970	AVERAGE
2		6480.000	11.672	25.370	37.042	-16.928	53.970	AVERAGE
3	*	12197.000	19.290	24.338	43.627	-10.343	53.970	AVERAGE

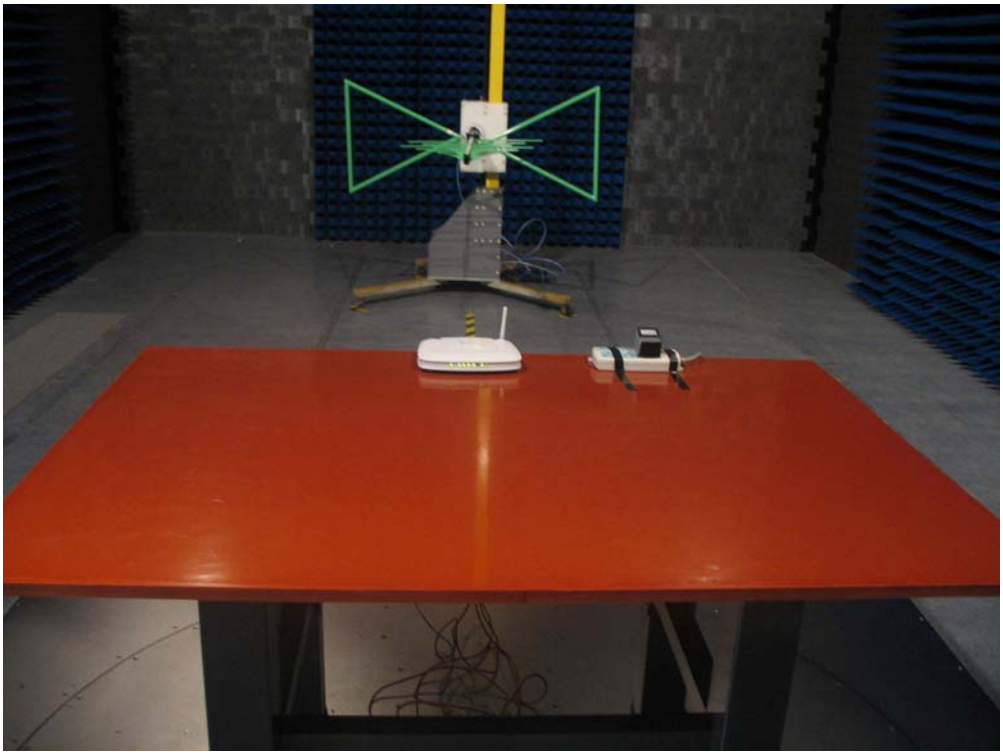
Note:

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

5.7. Test Photograph

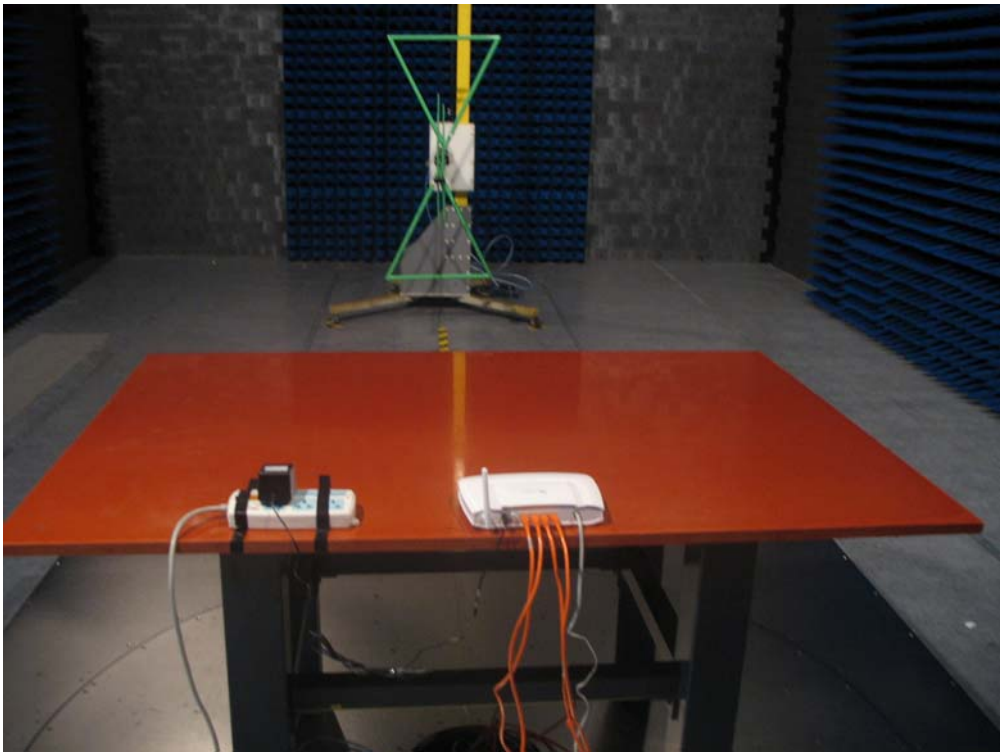
Test Mode: Mode1: Transmitter 802.11b

Description: Front View of Radiated Test for Under 1GHz



Test Mode: Mode1: Transmitter 802.11b

Description: Back View of Radiated Test for Under 1GHz

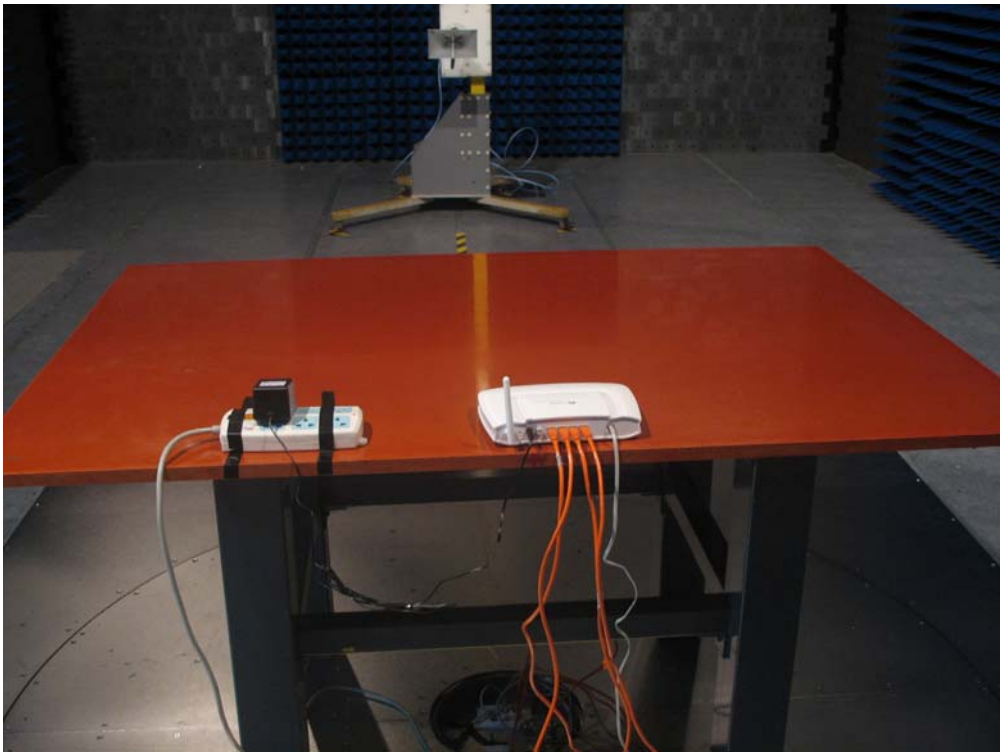


Test Mode: Mode1: Transmitter 802.11b

Description: Front View of Radiated Test for Above 1GHz

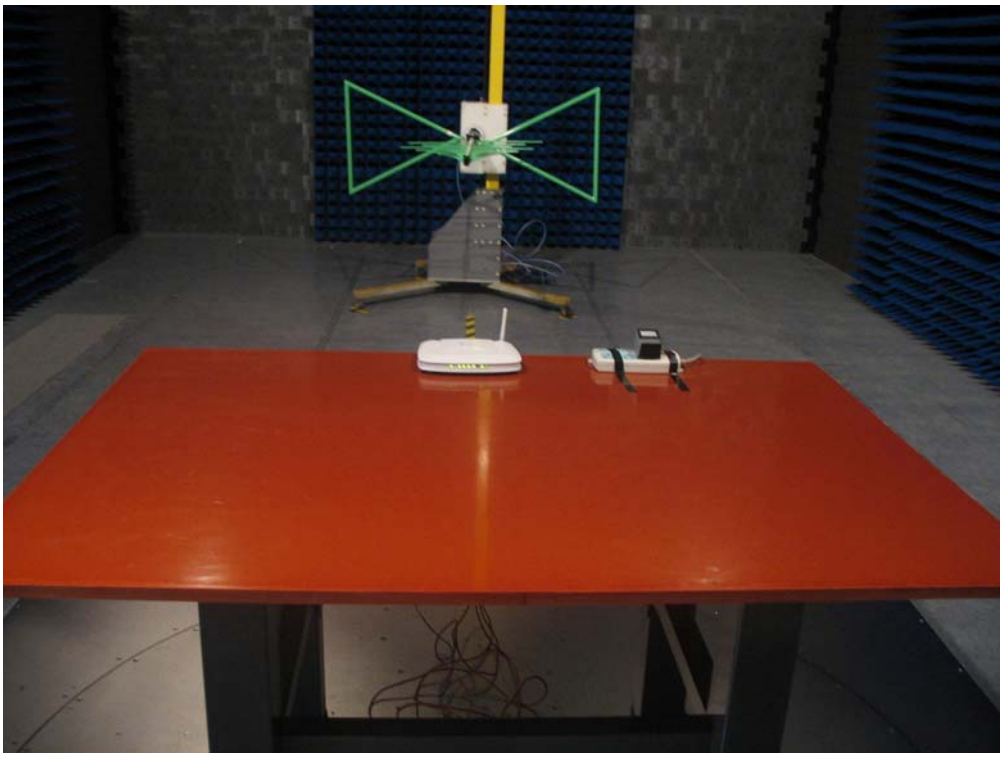
Test Mode: Mode1: Transmitter 802.11b

Description: Back View of Radiated Test for Above 1GHz



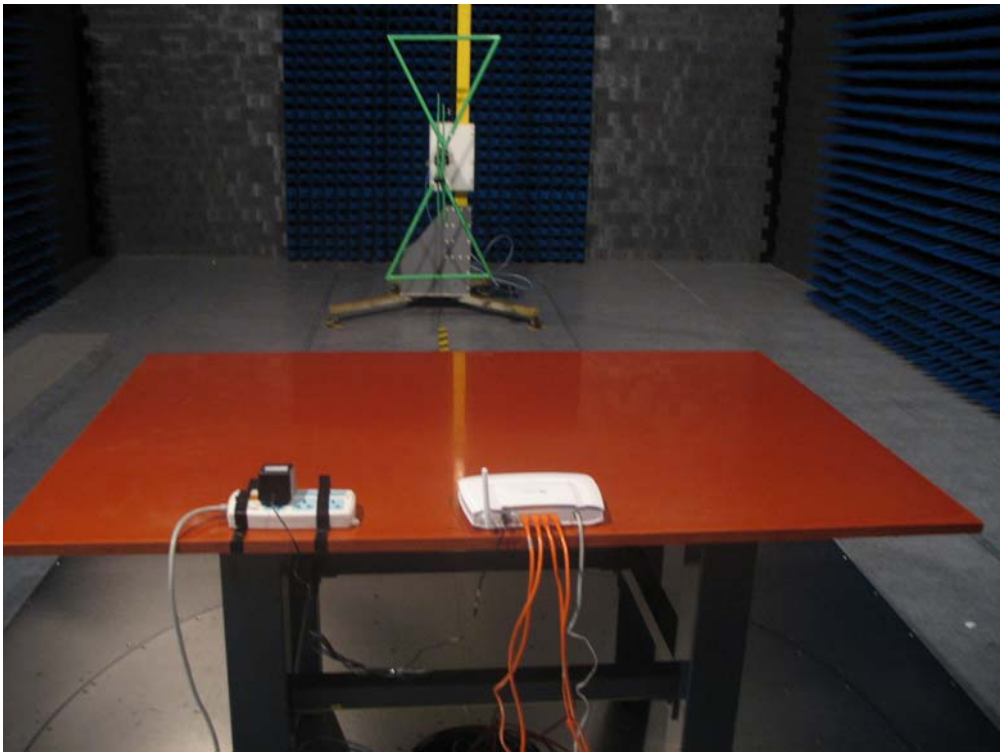
Test Mode: Mode2: Transmitter 802.11g

Description: Front View of Radiated Test for Under 1GHz



Test Mode: Mode2: Transmitter 802.11g

Description: Back View of Radiated Test for Under 1GHz

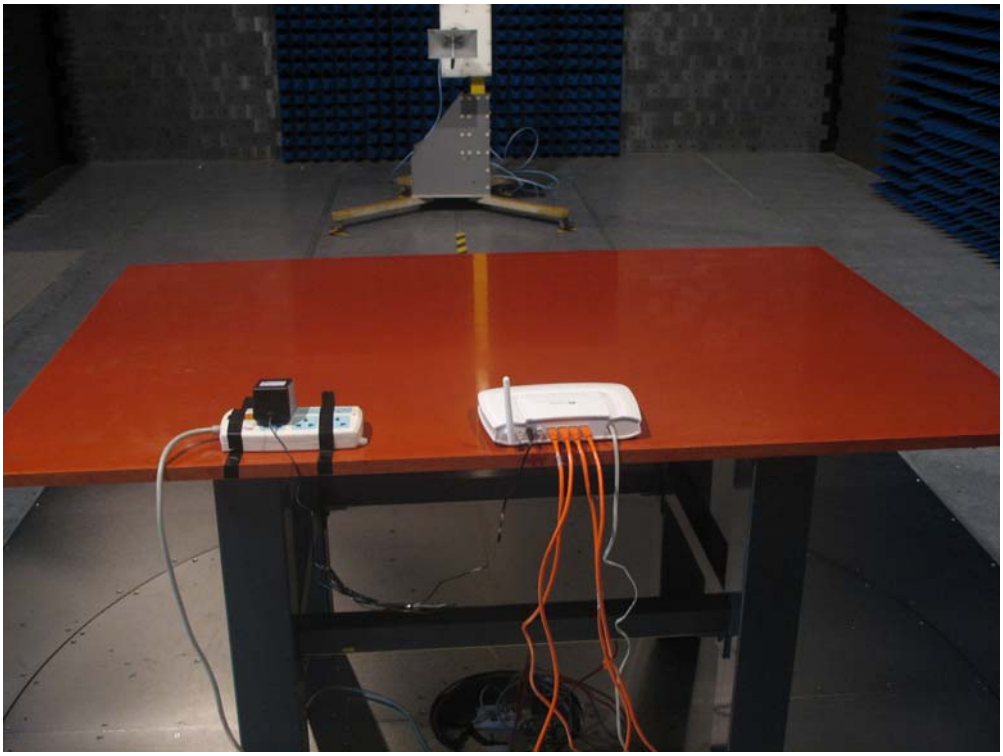


Test Mode: Mode2: Transmitter 802.11g

Description: Front View of Radiated Test for Above 1GHz

Test Mode: Mode2: Transmitter 802.11g

Description: Back View of Radiated Test for Above 1GHz



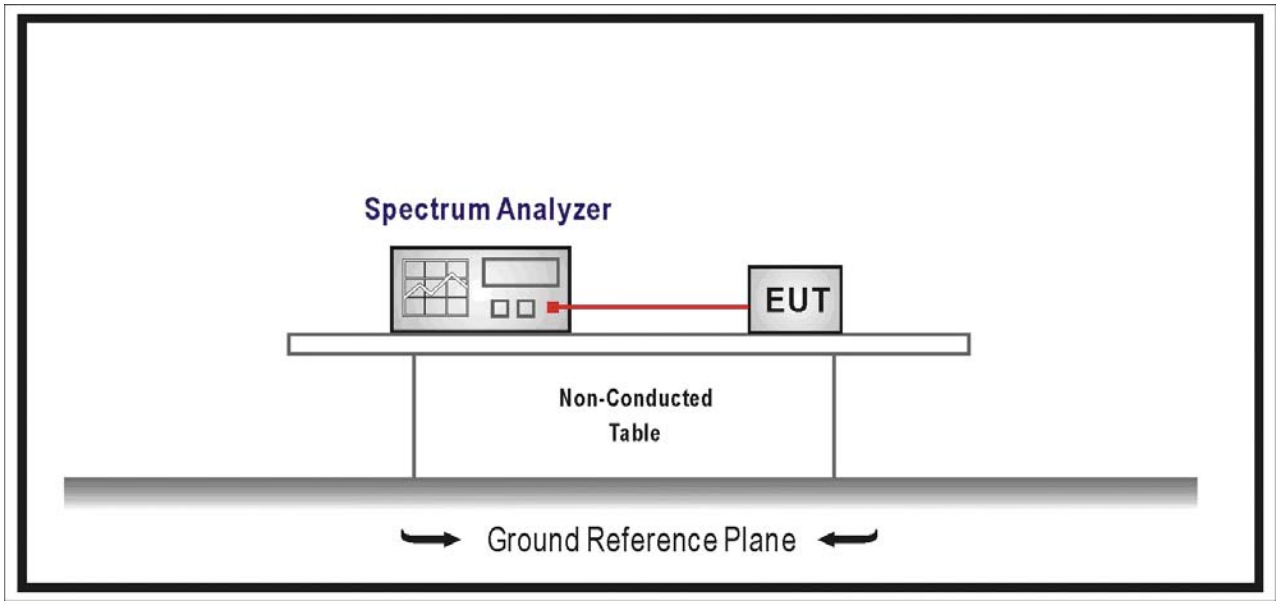
6. Band Edge

6.1. Test Specification

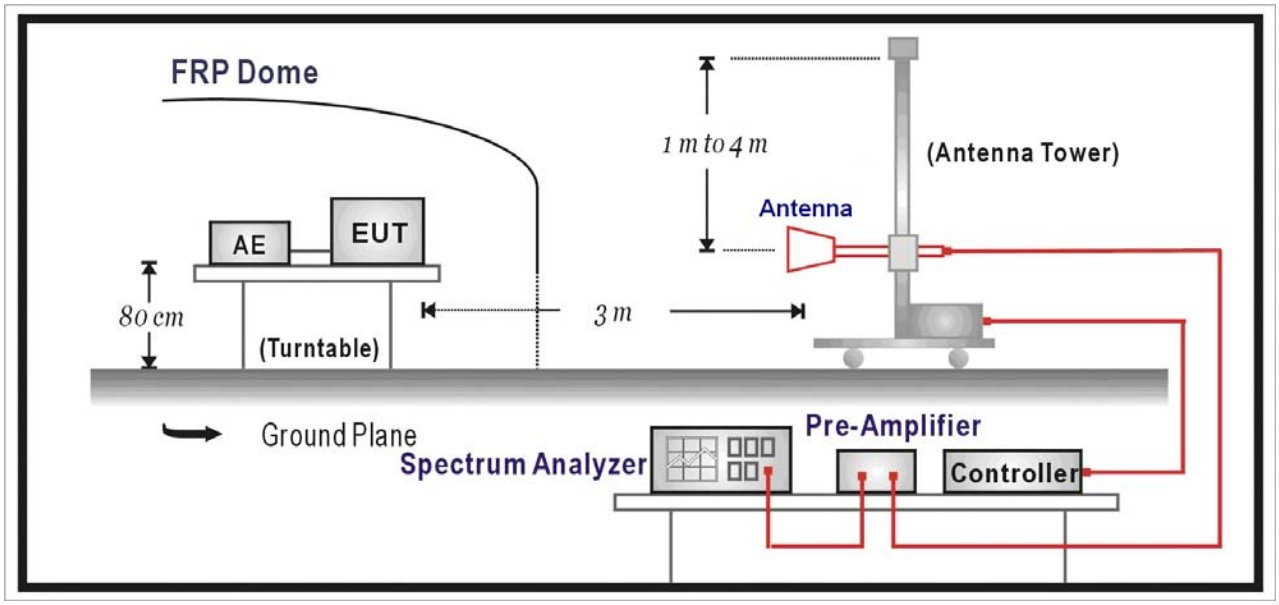
According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.247

6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement



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

6.4. Deviation from Test Standard

No deviation.

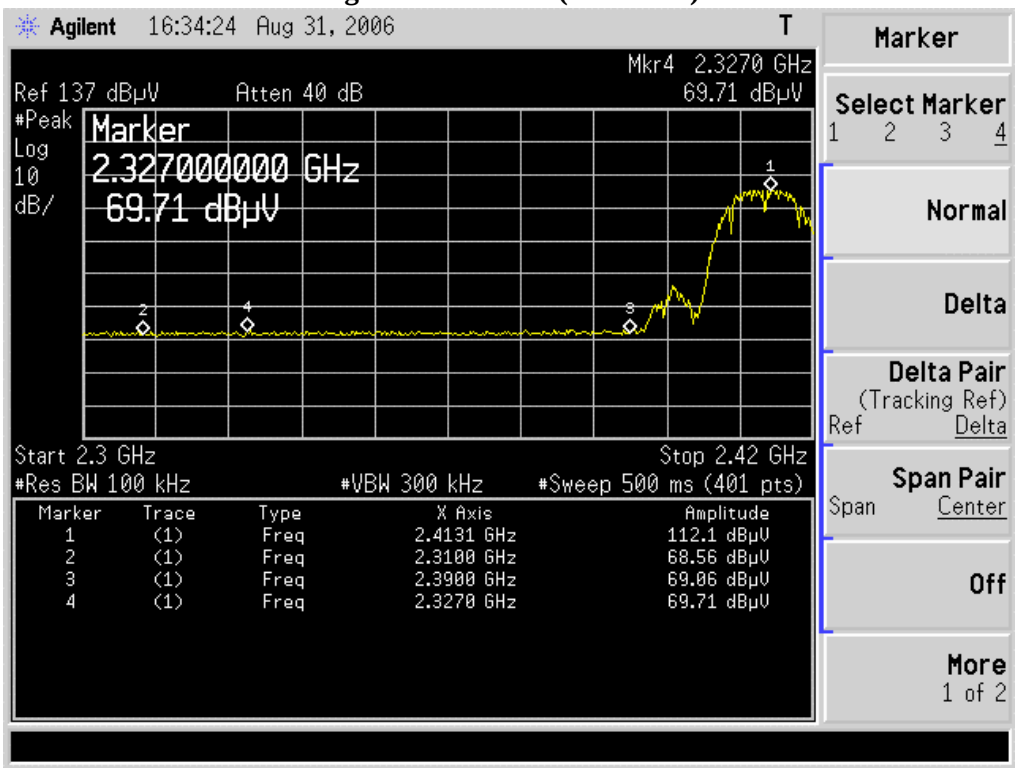
6.5. Test Result

Product	Home Gateway		
Test Item	Band Edge		
Test Mode	Mode1: Transmitter 802.11b		
Date of Test	2006/08/31	Test Site	AC-2

RF Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

Figure Channel 01 (2412MHz)

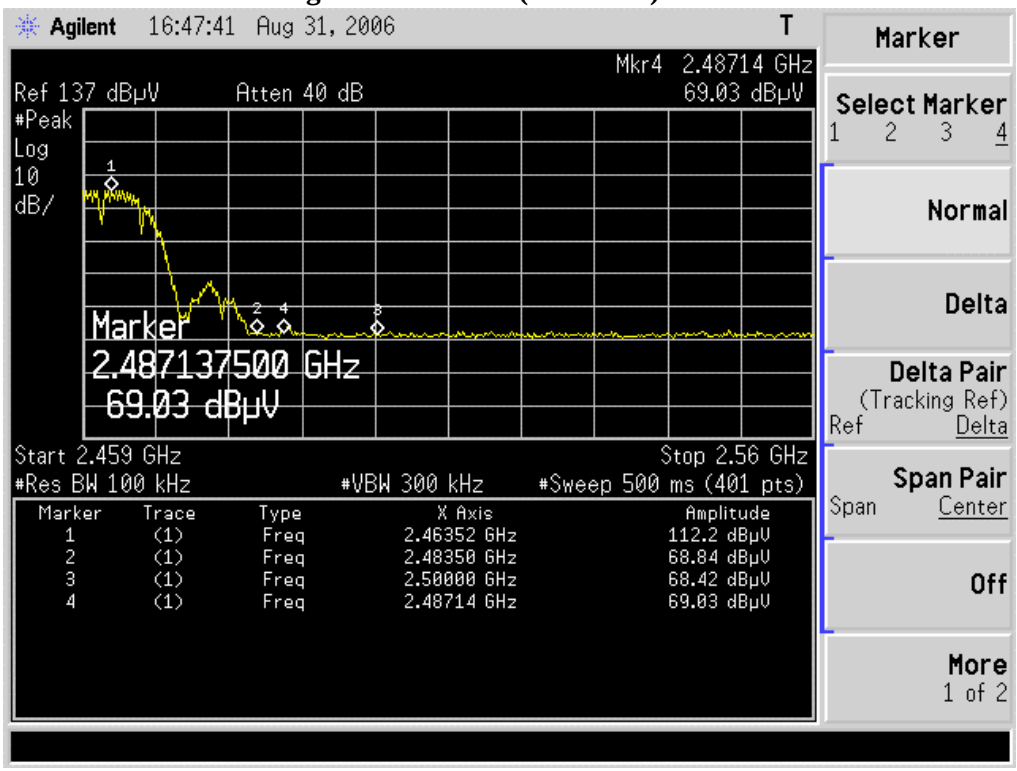


Product	Home Gateway		
Test Item	Band Edge		
Test Mode	Mode1: Transmitter 802.11b		
Date of Test	2006/08/31	Test Site	AC-2

RF Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

Figure Channel 11 (2462MHz)

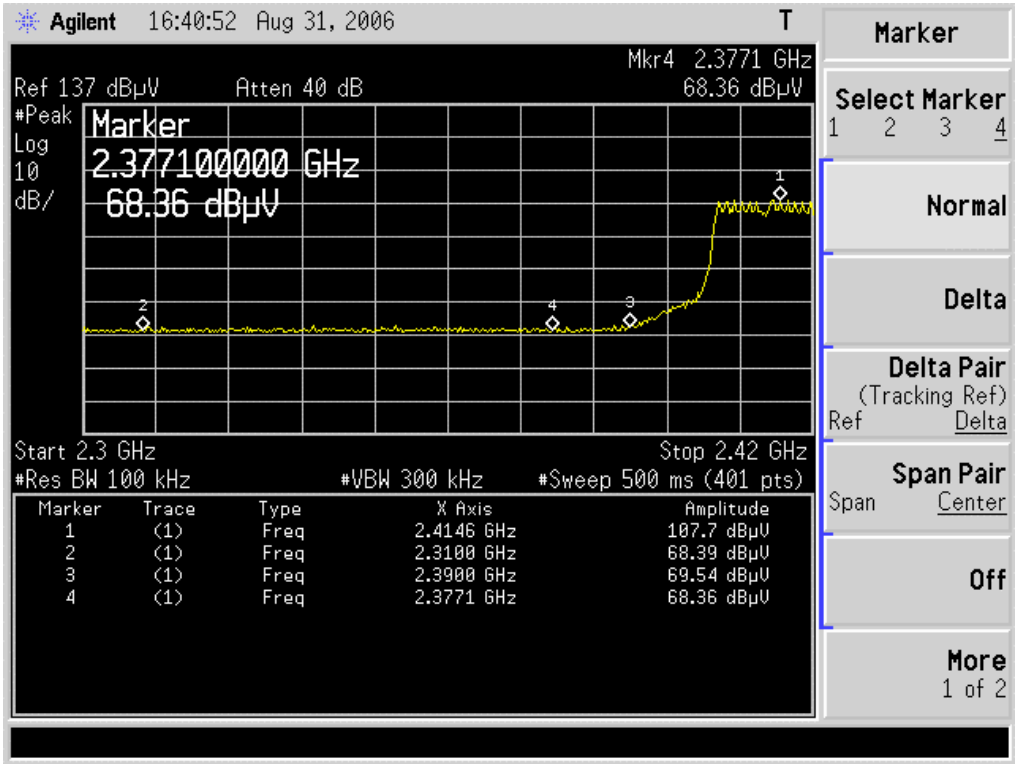


Product	Home Gateway		
Test Item	Band Edge		
Test Mode	Mode2: Transmitter 802.11g		
Date of Test	2006/08/31	Test Site	AC-2

RF Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
01	<2400	>20	Pass

Figure Channel 01 (2412MHz)

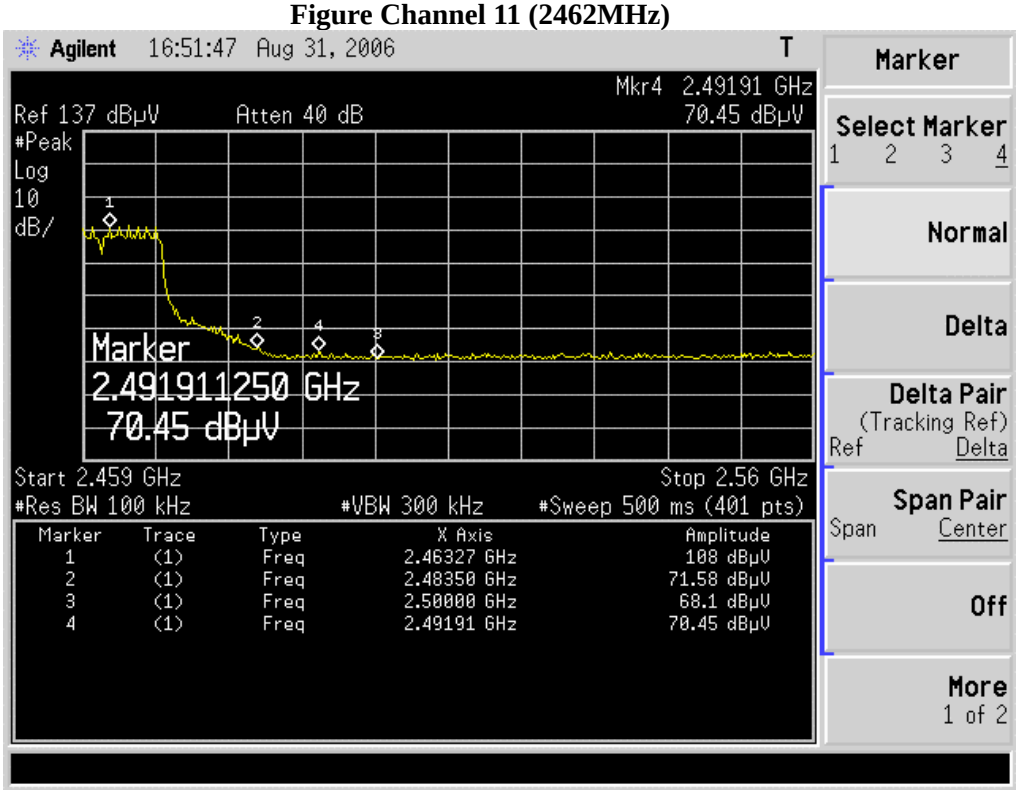


Product	Home Gateway		
Test Item	Band Edge		
Test Mode	Mode2: Transmitter 802.11g		
Date of Test	2006/08/31	Test Site	AC-2

RF Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11	>2483.5	>20	Pass

Figure Channel 11 (2462MHz)

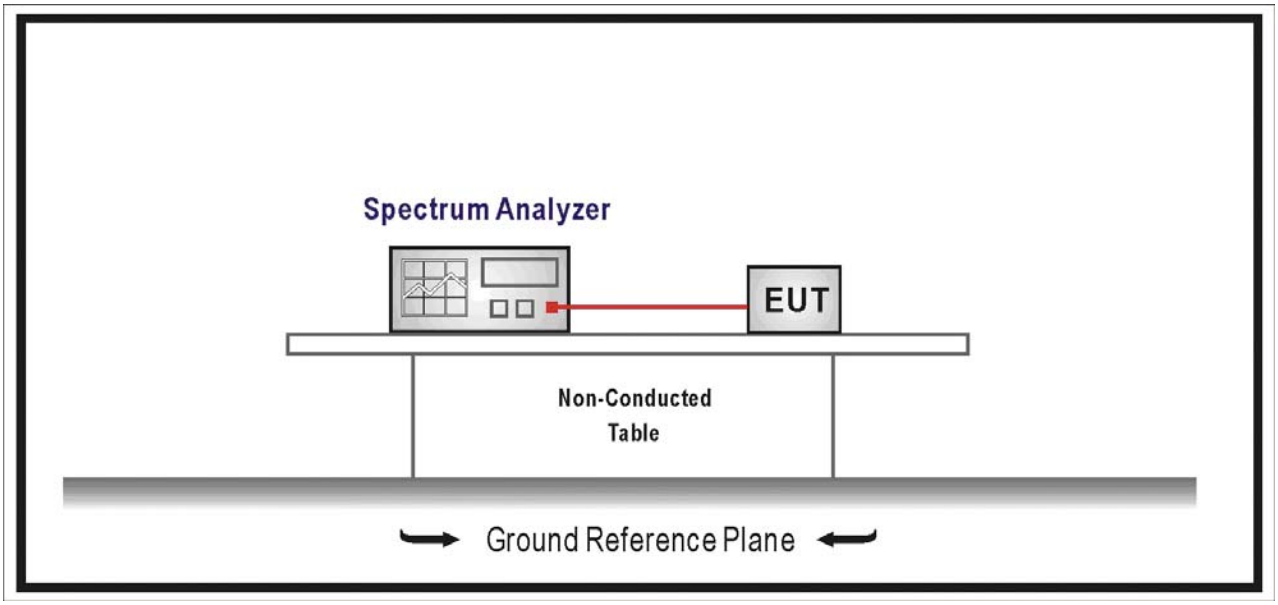


7. Occupied Bandwidth

7.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.247

7.2. Test Setup



7.3. Limit

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

7.4. Deviation from Test Standard

No deviation.

7.5. Test Result

Product	Home Gateway		
Test Item	Occupied Bandwidth		
Test Mode	Mode1: Transmitter 802.11b		
Date of Test	2006/08/30	Test Site	AC-3

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	10330	500	Pass
06	2437	10330	500	Pass
11	2462	10330	500	Pass

Figure Channel 01 (2412MHz)

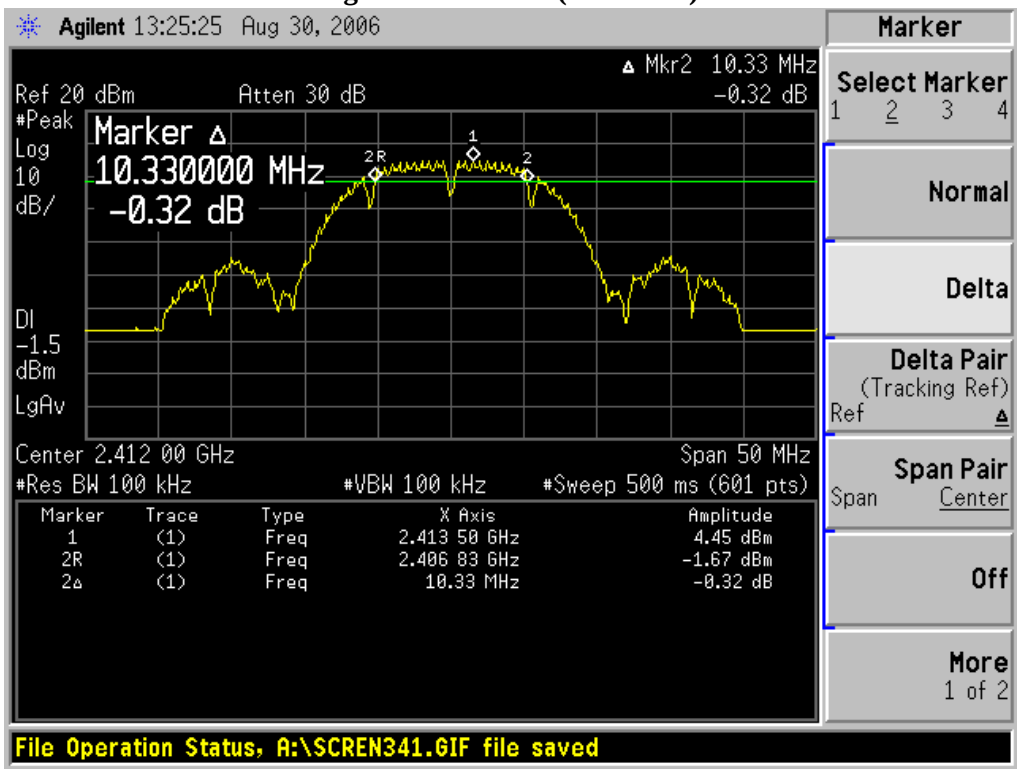


Figure Channel 06 (2437MHz)

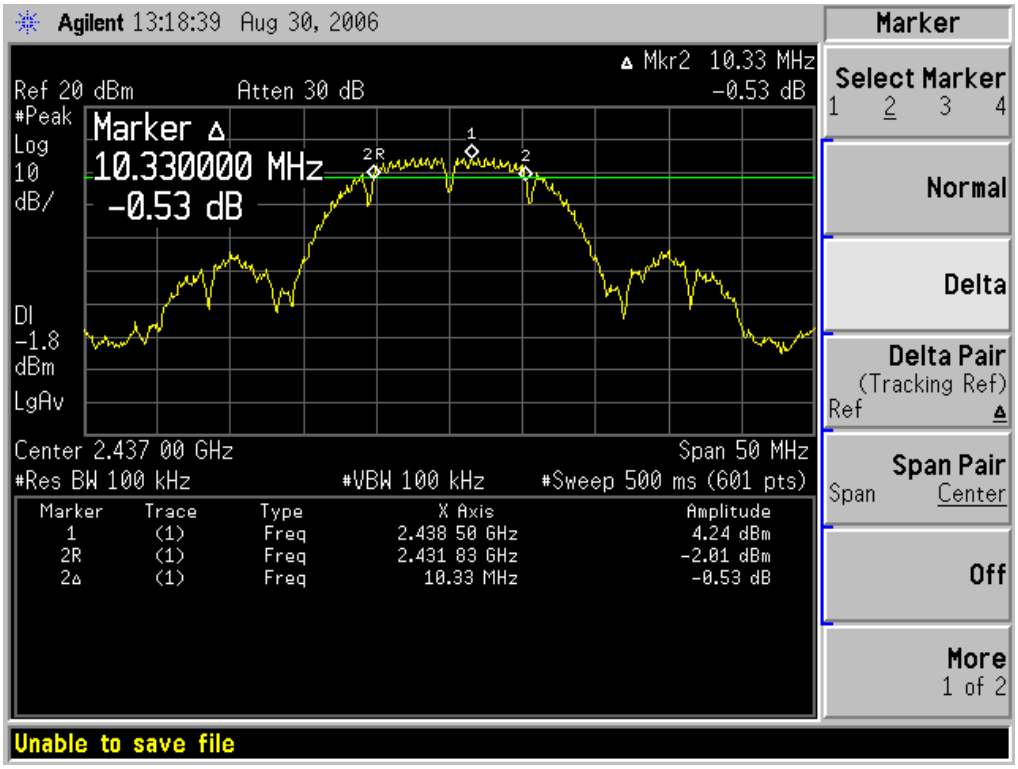
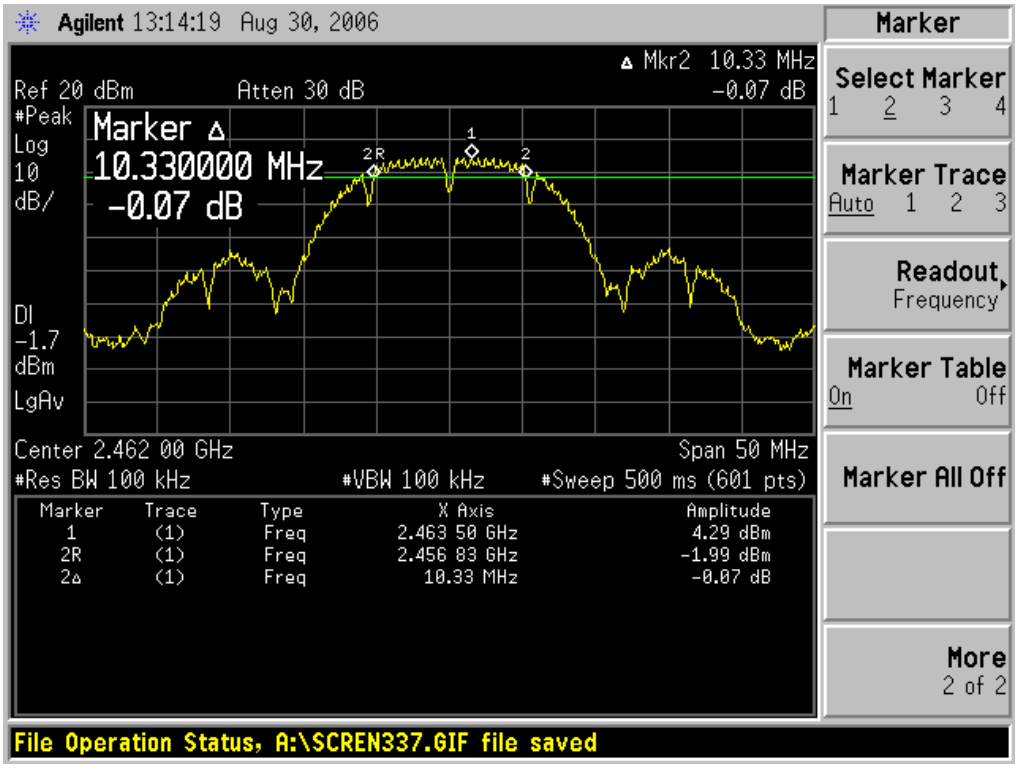


Figure Channel 11 (2462MHz)



Product	Home Gateway		
Test Item	Occupied Bandwidth		
Test Mode	Mode2: Transmitter 802.11g		
Date of Test	2006/08/30	Test Site	AC-3

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16420	500	Pass
06	2437	16500	500	Pass
11	2462	16420	500	Pass

Figure Channel 01 (2412MHz)

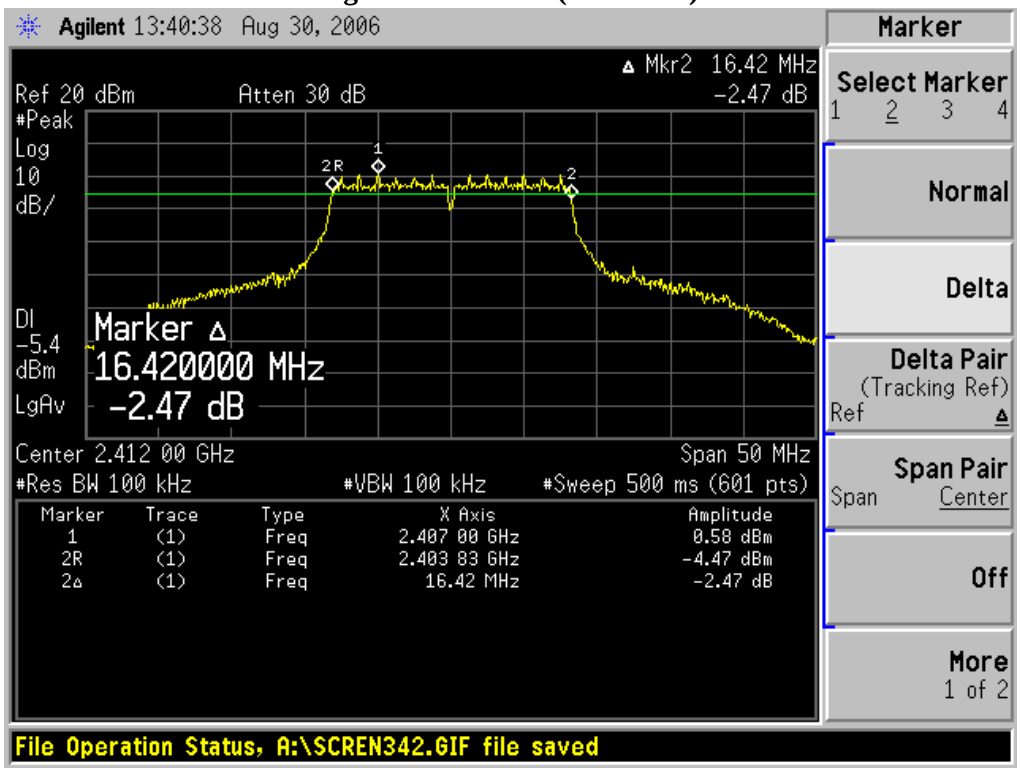


Figure Channel 06 (2437MHz)

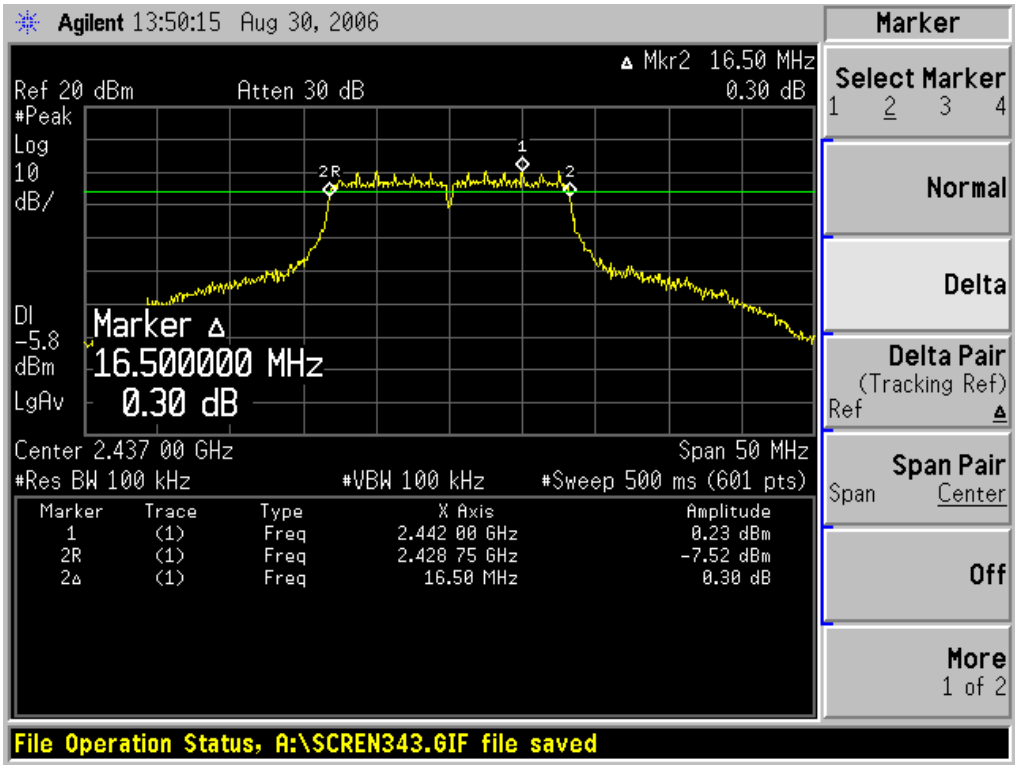
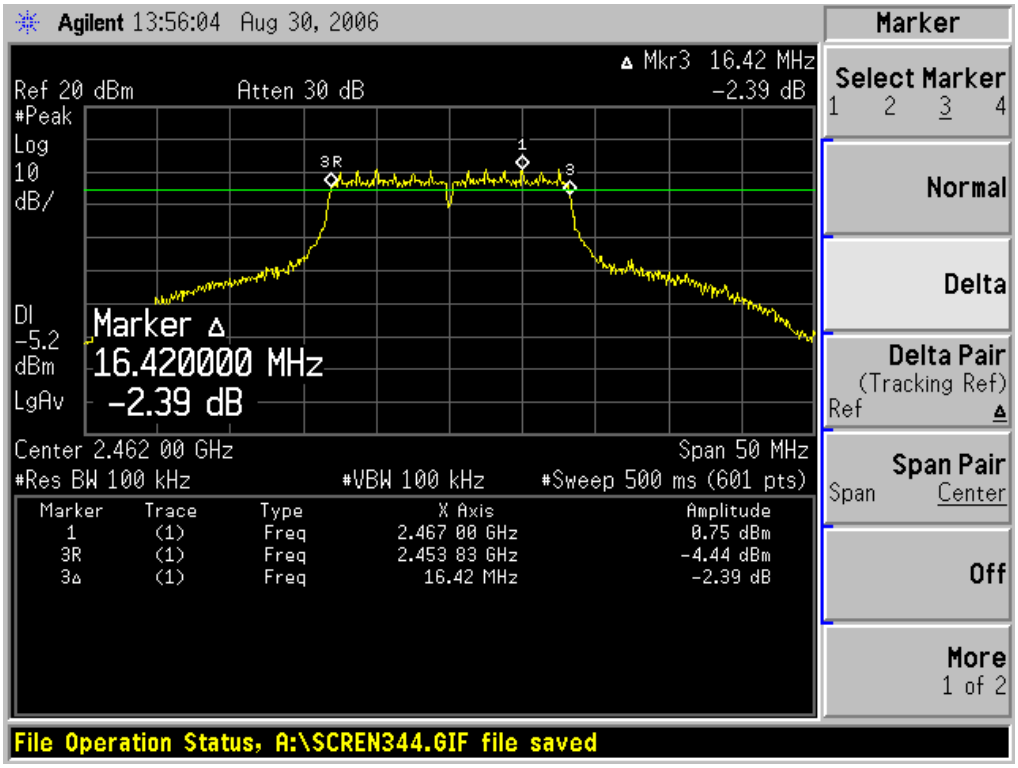


Figure Channel 11 (2462MHz)

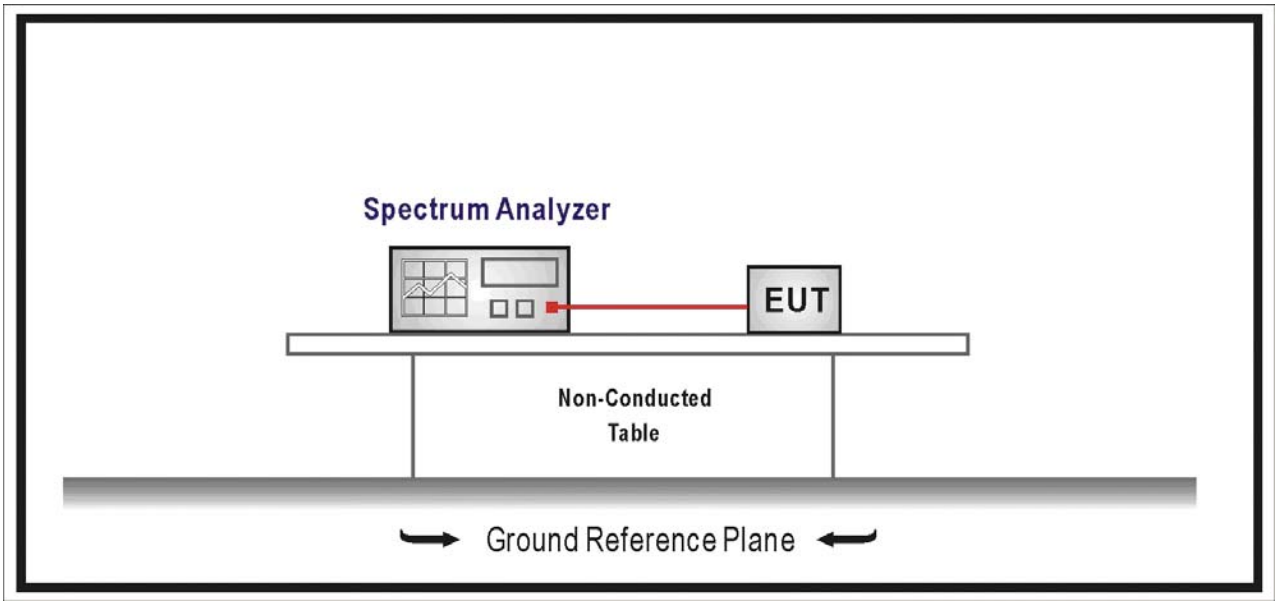


8. Peak Power Spectral Density

8.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart C Paragraph 15.247

8.2. Test Setup



8.3. Limit

The peak 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.

8.4. Deviation from Test Standard

No deviation.

8.5. Test Result

Product	Home Gateway		
Test Item	Peak Power Spectral Density		
Test Mode	Mode1: Transmitter 802.11b		
Date of Test	2006/08/30	Test Site	AC-3

Channel	Freq. (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm /3kHz)	Result
01	2412	-19.70	8	PASS
06	2437	-19.71	8	PASS
11	2462	-20.10	8	PASS

Figure Channel 01 (2412MHz)

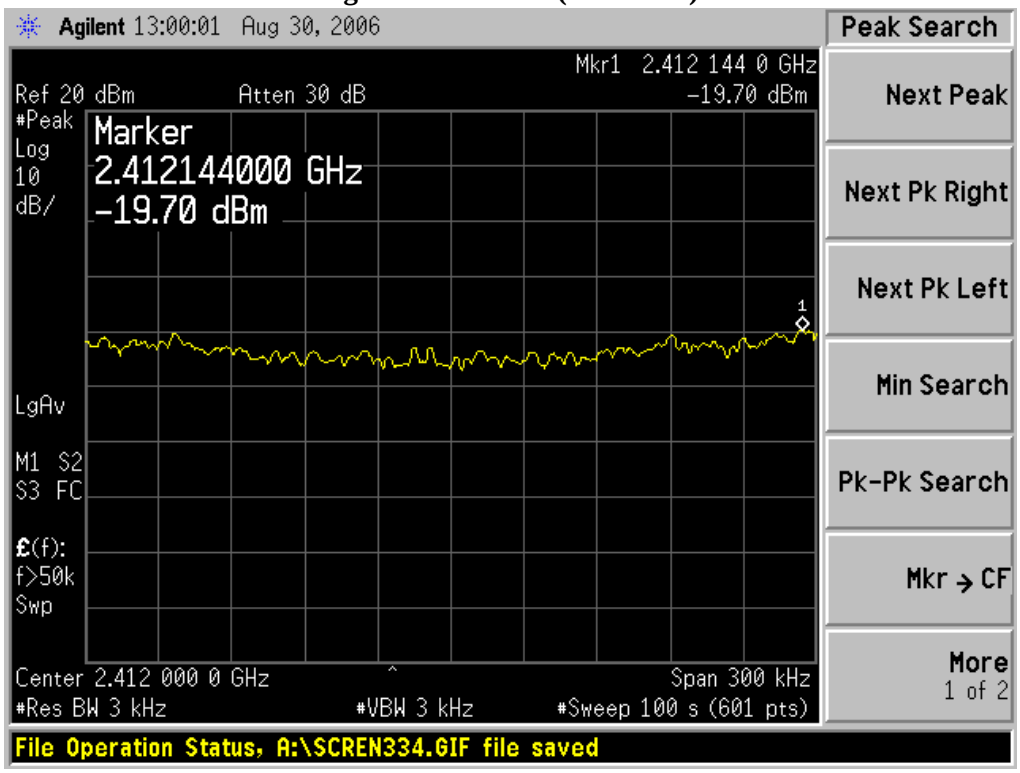


Figure Channel 06 (2437MHz)

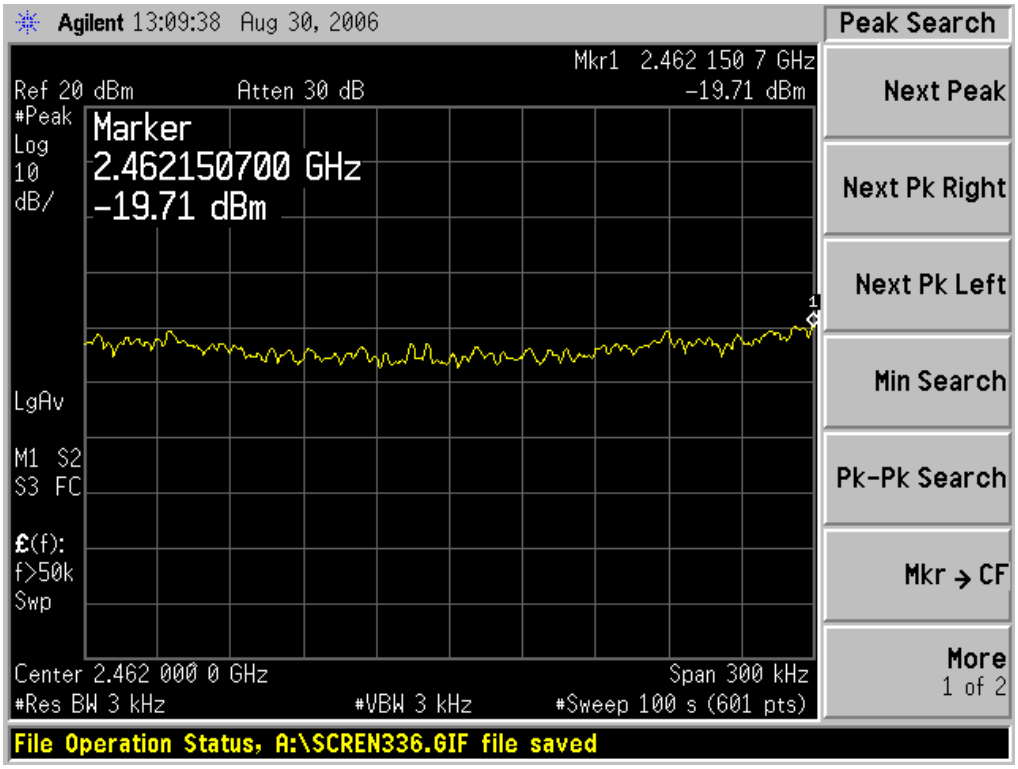
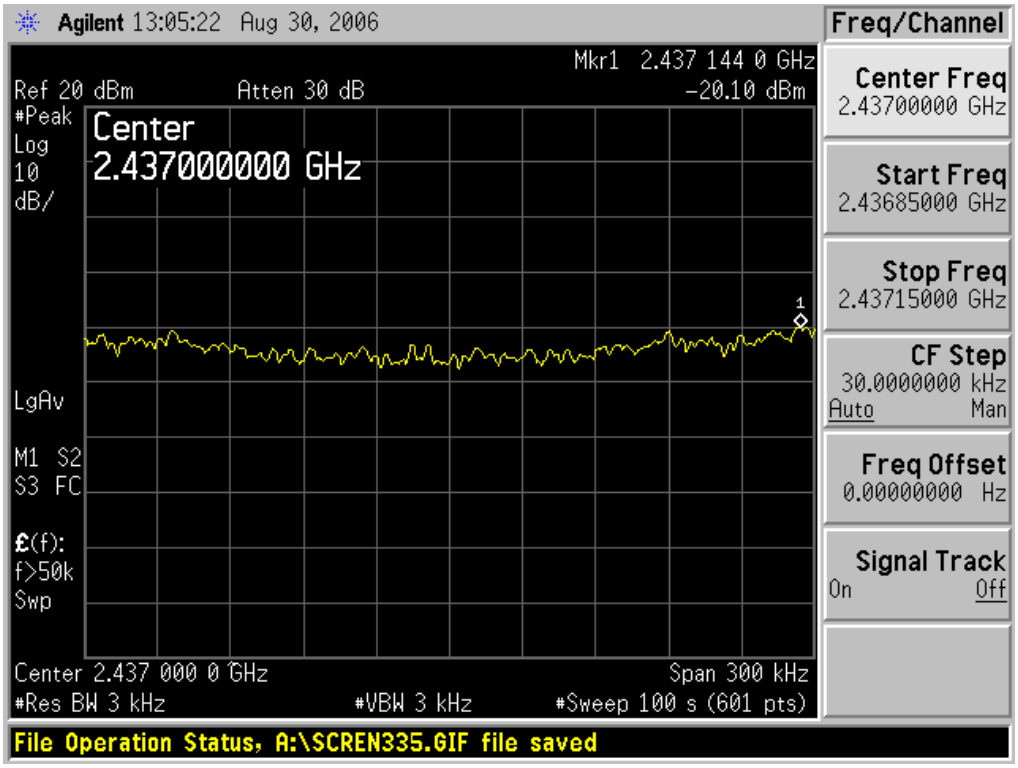


Figure Channel 11 (2462MHz)



Product	Home Gateway		
Test Item	Peak Power Spectral Density		
Test Mode	Mode2: Transmitter 802.11g		
Date of Test	2006/08/30	Test Site	AC-3

Channel	Freq. (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm /3kHz)	Result
01	2412	-21.55	8	PASS
06	2437	-21.52	8	PASS
11	2462	-21.39	8	PASS

Figure Channel 01 (2412MHz)

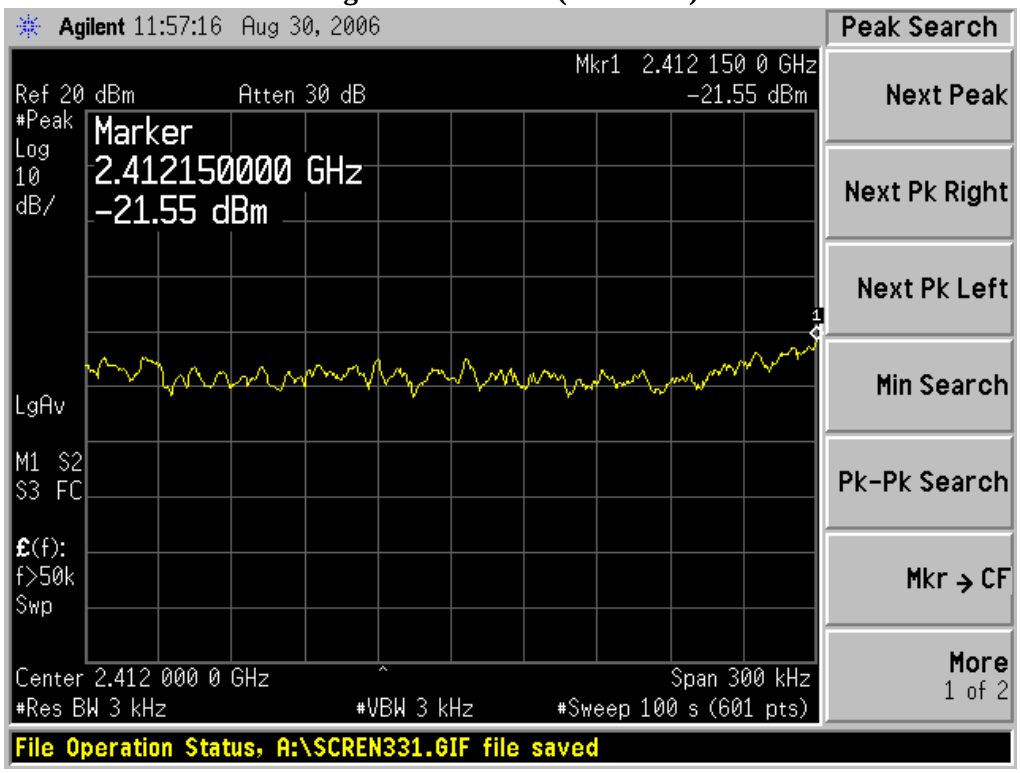


Figure Channel 06 (2437MHz)

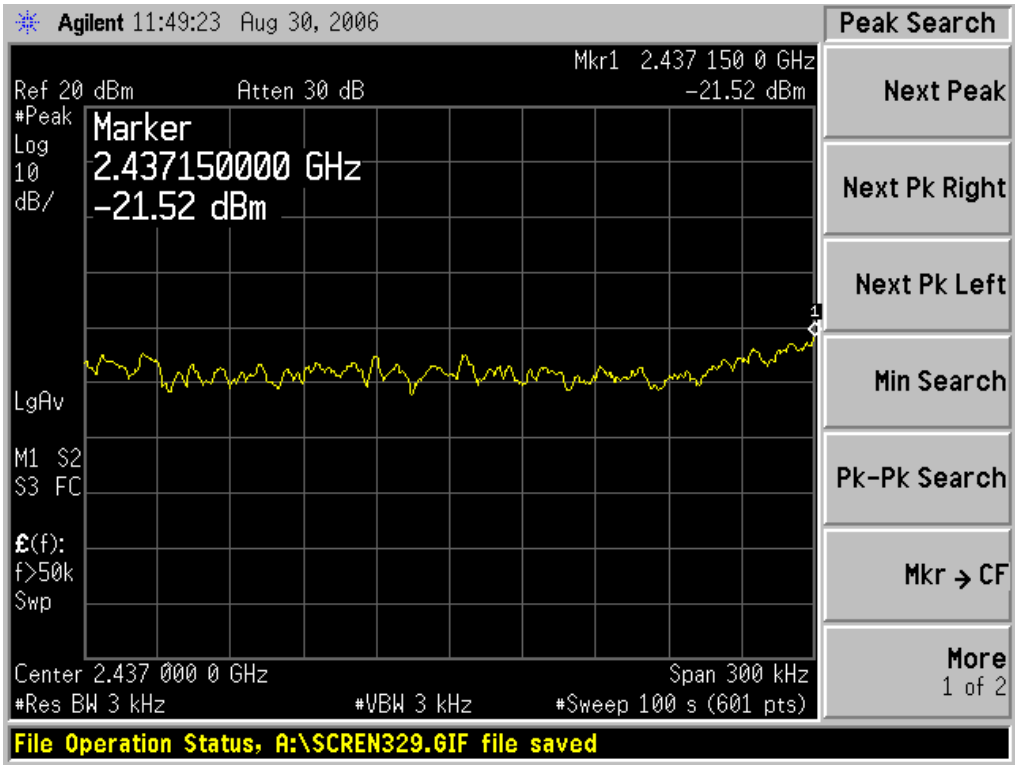


Figure Channel 11 (2462MHz)