



Test Report

Product Name : 3G MOBILE Wireless Router
Model No. : WL-330N3G
FCC ID. : MSQ-WL330N3G

Applicant : ASUSTeK COMPUTER INC.
Address : No.150 Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : 2010/06/04
Issued Date : 2010/09/10
Report No. : 106118R-RFUSP42V01
Report Version : V1.0

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2010/09/10

Report No. : 106118R-RFUSP42V01

Quietek

Product Name : 3G MOBILE Wireless Router
Applicant : ASUSTeK COMPUTER INC.
Address : No.150 Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer : GSTek (SZ) Corporation
Model No. : WL-330N3G
FCC ID. : MSQ-WL330N3G
EUT Voltage : AC 100-240V / 50/60Hz
Trade Name : ASUS
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2009
Test Result : Complied

The test results relate only to the samples tested.

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

Documented By :



(Carol Tsai / Engineering Adm. Specialist)

Reviewed By :



(Lucia Lu / Engineer)

Approved By :



(Roy Wang / Manager)

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1. General Information

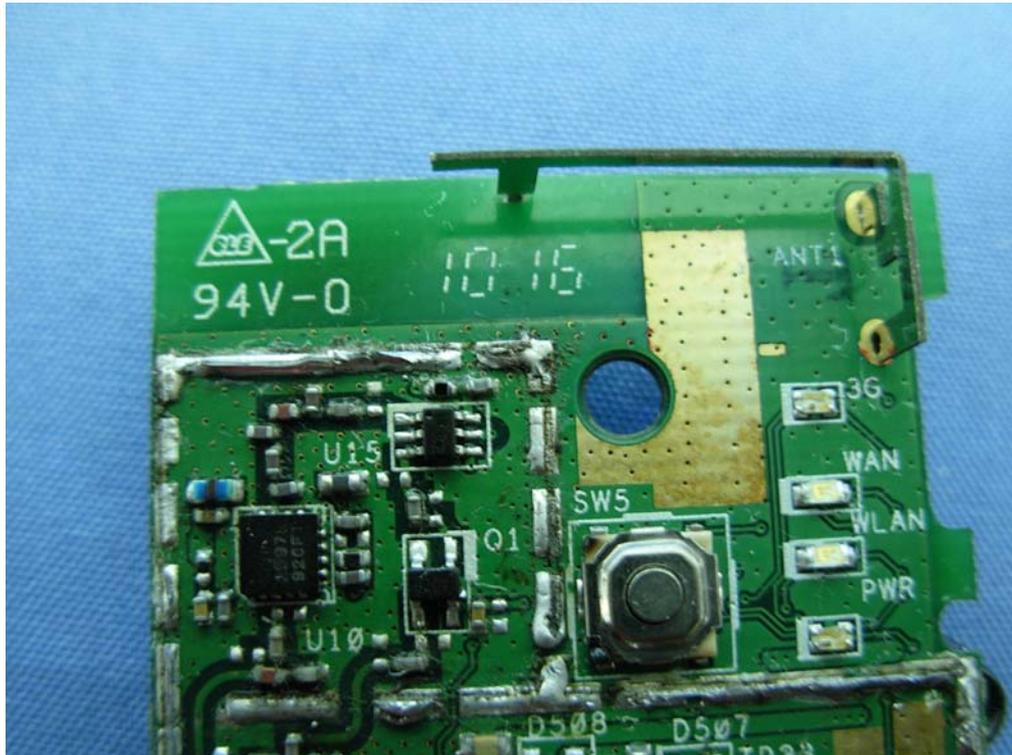
1.1. EUT Description

Product Name	3G MOBILE Wireless Router
Product Type	WLAN (1TX, 1RX)
Trade Name	ASUS
Model No.	WL-330N3G
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz)	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz)	2422~2452MHz
Channel Number (IEEE 802.11b/g & IEEE 802.11n (20MHz))	11
Channel Number- IEEE 802.11n (40MHz)	7
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 7 and bandwidth defined in 802.11n
Antenna Gain	2.6dBi
Channel Control	Manual
Antenna Type	Metal antenna on board
Power Adapter (Mode 1)	GOE, GS2U-010-050 I/P: 100~240V 0.3A 60/50Hz O/P: 5V $\overline{=}$ 2000mA 10W Max Cable Out: Shielded, 1.8m
Power Adapter (Mode 2)	Sunny, SYS1381-1005-W2 I/P: 100~240V 0.5A max 50~60Hz O/P: 5V $\overline{=}$ 2.0A Cable Out: Shielded, 1.4m

ANT-TX / Rx & Bandwidth

ANT-TX / Rx Mode/ Channel Bandwidth	TX		Rx	
	20MHz	40MHz	20MHz	40MHz
IEEE802.11b	✓		✓	
IEEE802.11g	✓			
IEEE802.11n	✓	✓	✓	✓

ANT (TX / RX)



IEEE802.11n Spec.

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N _{BPSCS}	N _{CBPS}		N _{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI (Note1)	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0

Note 1: Support of 400ns GI is optional on transmit and receive.

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N _{BPSC}	Number of coded bits per single carrier
N _{CBPS}	Number of coded bits per symbol
N _{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

Note:

1. This device is a 3G MOBILE Wireless Router including 2.4GHz b/g and 11n (1x1) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. This device uses different transformers: MAG-LINK: HN0013CG, Utron: HSC-1601-R. These transformers have same specification. The preliminary tests were performed in different transformers, and there was no difference on the test data. Only one data was shown in this test report.
4. Regards to the frequency band operation; the lowest , middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 106118R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

Quietek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit_GOE Mode 2: Transmit_Sunny
----	--

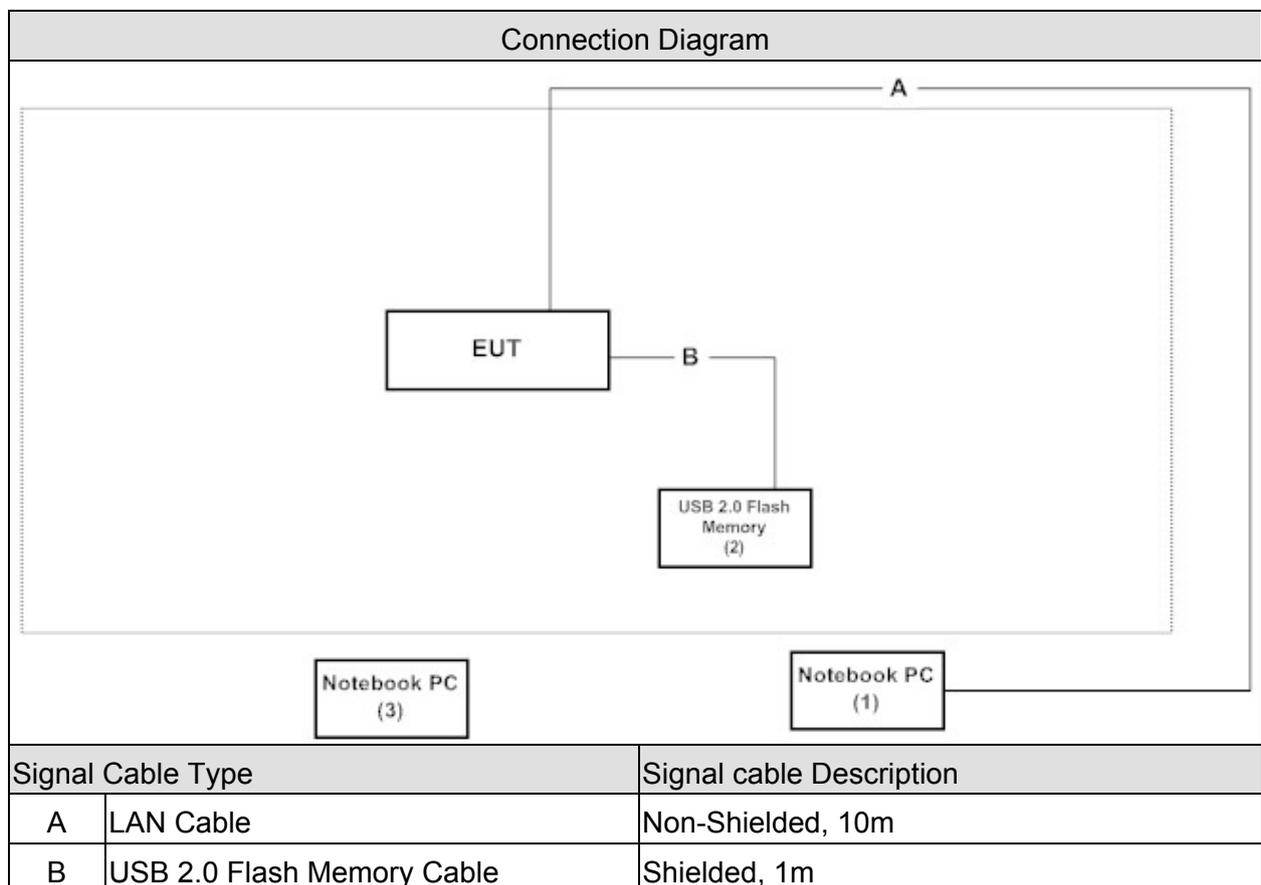
Test Items	Mode	Channel	Result
Conducted Emission	11n(40MHz)	6	Complies
Peak Power Output	b/g	1 /6/ 11	Complies
	11n-(20MHz)	1 /6/ 11	Complies
	11n-(40MHz)	3 /6/ 9	Complies
Radiated Emission	b/g	1 /6/ 11	Complies
	11n-(20MHz)	1 /6/ 11	Complies
	11n-(40MHz)	3 /6/ 9	Complies
RF antenna conducted test	b/g	1 /11	Complie
	11n-(20MHz)	1 /11	Complies
	11n-(40MHz)	3 /9	Complies
Radiated Emission Band Edge	b/g	1 /11	Complies
	11n-(20MHz)	1 /11	Complies
	11n-(40MHz)	3 /9	Complies
Occupied Bandwidth	b/g	1 /6/ 11	Complies
	11n-(20MHz)	1 /6/ 11	Complies
	11n-(40MHz)	3 /6/ 9	Complies
Power Density	b/g	1 /6/ 11	Complies
	11n-(20MHz)	1 /6/ 11	Complies
	11n-(40MHz)	3 /6/ 9	Complies

1.4. 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.	FCC ID	Power Cord
1 Notebook PC	HP Compaq	NX6320FF	CNU7020BXT	DoC	Non-Shielded, 1.8m
2 USB 2.0 Flash Memory	TOSHIBA	Trans Memory II 1 GB	N/A	DoC	--
3 Notebook PC	DELL	Precision M65	28G9NIS	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Boot the Notebook PC from Hard Disk.
4	Data will communicate by connecting to LAN port of Notebook PC.
5	The computer's monitor will show the transmitting and receiving characteristics when the communication is success.
6	Repeat the above procedure (4) to (5).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	51
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	51
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	51
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2010



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2010



Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

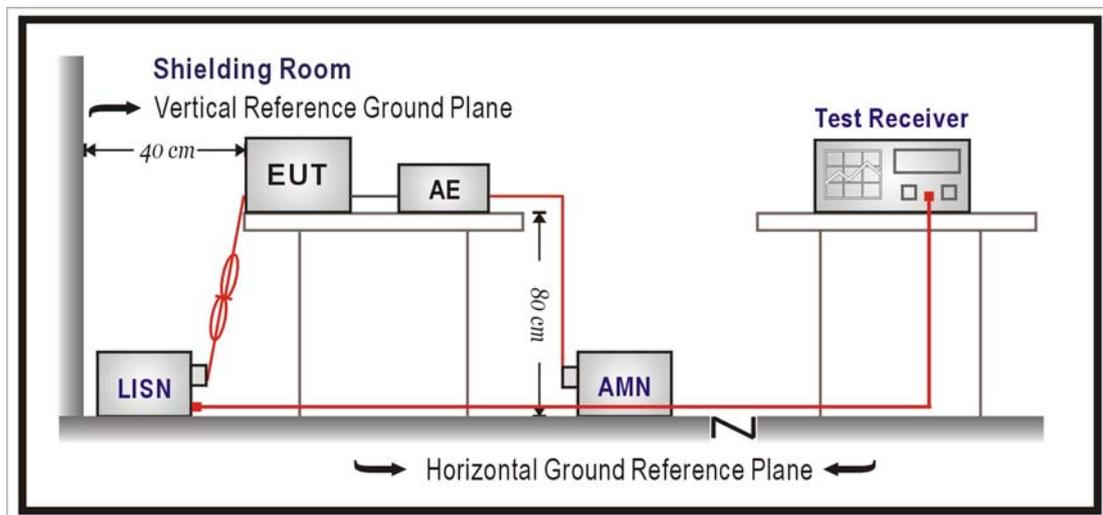
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal.
LISN	R&S	ENV216	100096	2010/09/27
LISN	R&S	ESH3-Z5	836679/022	2011/05/30
Test Receiver	R&S	ESCS 30	825442/017	2011/02/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	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.

2.4. 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 9 kHz.

2.5. Test Specification

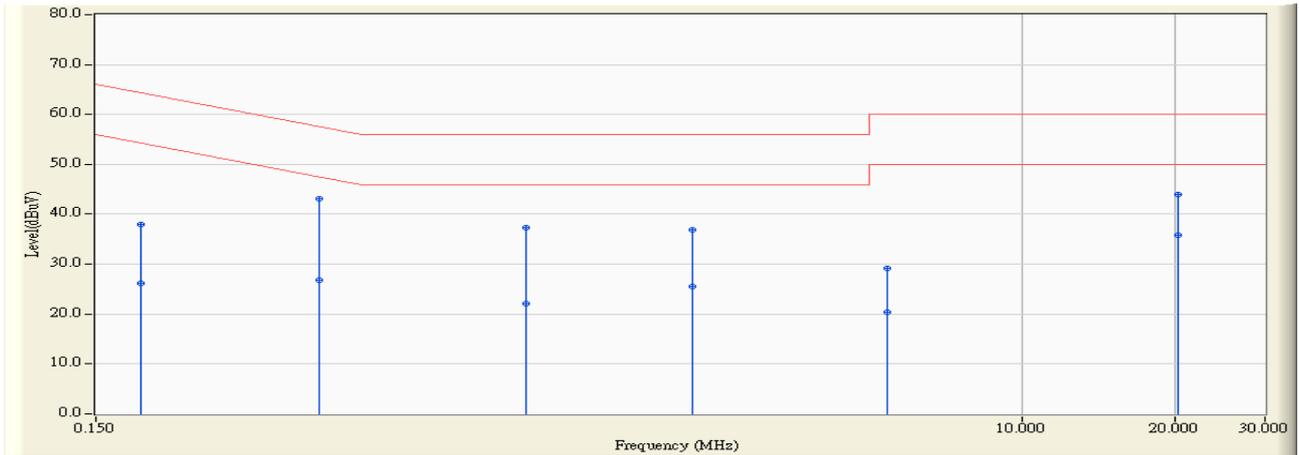
According to FCC Part 15 Subpart C Paragraph 15.207: 2009

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2010/06/22 - 19:52
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A) - Line1	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)

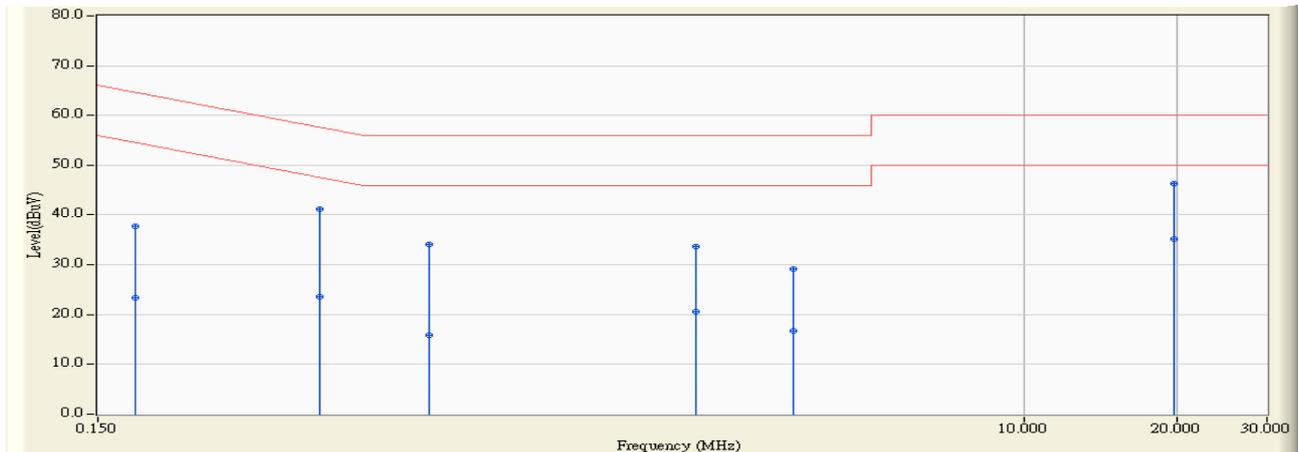


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.184	9.822	28.210	38.032	-26.284	64.317	QUASPEAK
2	0.184	9.822	16.290	26.112	-28.204	54.317	AVERAGE
3	0.412	9.776	33.360	43.136	-14.478	57.614	QUASPEAK
4	0.412	9.776	16.990	26.766	-20.848	47.614	AVERAGE
5	1.052	9.766	27.650	37.416	-18.584	56.000	QUASPEAK
6	1.052	9.766	12.290	22.056	-23.944	46.000	AVERAGE
7	2.245	9.871	27.120	36.991	-19.009	56.000	QUASPEAK
8	2.245	9.871	15.600	25.471	-20.529	46.000	AVERAGE
9	5.432	9.911	19.320	29.232	-30.768	60.000	QUASPEAK
10	5.432	9.911	10.560	20.472	-29.528	50.000	AVERAGE
11	20.258	10.252	33.770	44.022	-15.978	60.000	QUASPEAK
12	* 20.258	10.252	25.660	35.912	-14.088	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.

Site : SR3	Time : 2010/06/22 - 19:56
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A) - Line2	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)

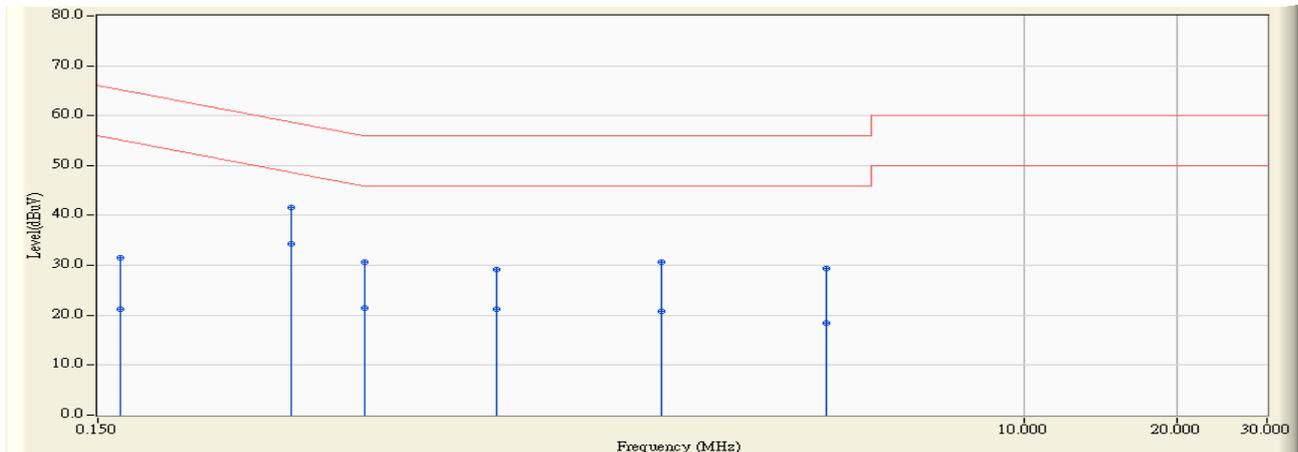


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.177	9.818	28.020	37.838	-26.771	64.609	QUASPEAK
2	0.177	9.818	13.520	23.338	-31.271	54.609	AVERAGE
3	0.409	9.776	31.370	41.146	-16.526	57.673	QUASPEAK
4	0.409	9.776	13.770	23.546	-24.126	47.673	AVERAGE
5	0.673	9.755	24.370	34.125	-21.875	56.000	QUASPEAK
6	0.673	9.755	6.010	15.765	-30.235	46.000	AVERAGE
7	2.262	9.873	23.790	33.663	-22.337	56.000	QUASPEAK
8	2.262	9.873	10.720	20.593	-25.407	46.000	AVERAGE
9	3.508	9.885	19.200	29.085	-26.915	56.000	QUASPEAK
10	3.508	9.885	6.750	16.635	-29.365	46.000	AVERAGE
11	* 19.708	10.428	36.000	46.428	-13.572	60.000	QUASPEAK
12	19.708	10.428	24.710	35.138	-14.862	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.

Site : SR2	Time : 2010/06/22 - 20:26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-LISN(16A) - Line1	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(40MHz)

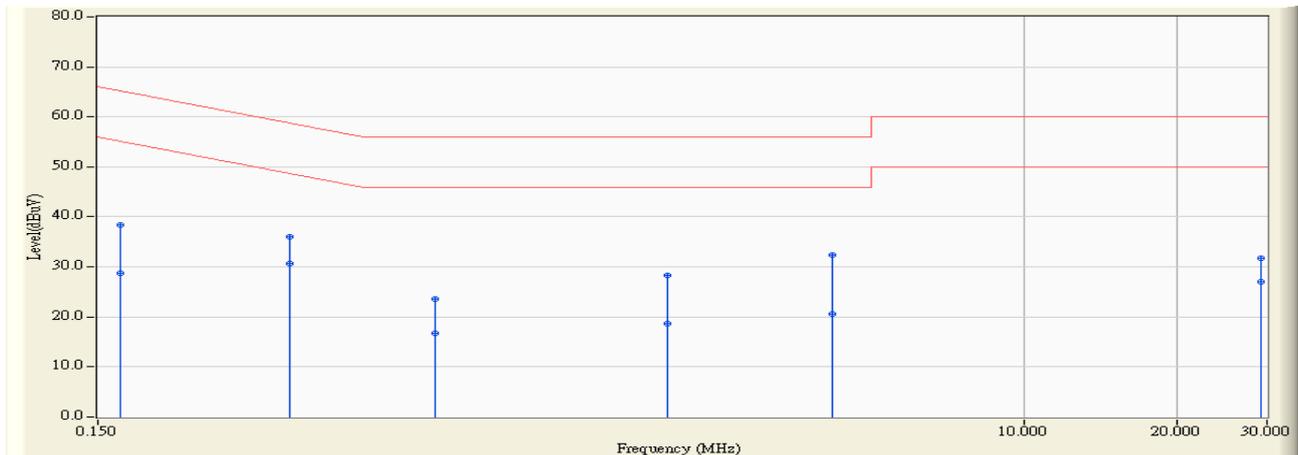


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.783	21.820	31.603	-33.574	65.177	QUASIPeAK
2	0.166	9.783	11.390	21.173	-34.004	55.177	AVERAGE
3	0.361	9.810	31.740	41.550	-17.164	58.714	QUASIPeAK
4	* 0.361	9.810	24.450	34.260	-14.454	48.714	AVERAGE
5	0.502	9.834	20.940	30.774	-25.226	56.000	QUASIPeAK
6	0.502	9.834	11.550	21.384	-24.616	46.000	AVERAGE
7	0.912	9.656	19.520	29.176	-26.824	56.000	QUASIPeAK
8	0.912	9.656	11.660	21.316	-24.684	46.000	AVERAGE
9	1.932	9.794	20.960	30.755	-25.245	56.000	QUASIPeAK
10	1.932	9.794	11.110	20.905	-25.095	46.000	AVERAGE
11	4.060	9.831	19.460	29.291	-26.709	56.000	QUASIPeAK
12	4.060	9.831	8.550	18.381	-27.619	46.000	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.

Site : SR2	Time : 2010/06/22 - 20:33
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-LISN(16A) - Line2	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(40MHz)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.166	9.783	28.630	38.413	-26.764	65.177	QUASPEAK
2	0.166	9.783	19.040	28.823	-26.354	55.177	AVERAGE
3	0.358	9.808	26.240	36.048	-22.724	58.772	QUASPEAK
4	*	9.808	20.920	30.728	-18.044	48.772	AVERAGE
5	0.693	9.780	13.770	23.550	-32.450	56.000	QUASPEAK
6	0.693	9.780	6.980	16.760	-29.240	46.000	AVERAGE
7	1.980	9.804	18.410	28.214	-27.786	56.000	QUASPEAK
8	1.980	9.804	8.750	18.554	-27.446	46.000	AVERAGE
9	4.190	9.833	22.630	32.463	-23.537	56.000	QUASPEAK
10	4.190	9.833	10.770	20.603	-25.397	46.000	AVERAGE
11	29.236	10.495	21.250	31.745	-28.255	60.000	QUASPEAK
12	29.236	10.495	16.510	27.005	-22.995	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. Peak Power Output

3.1. Test Equipment

The following test equipments are used during the test:

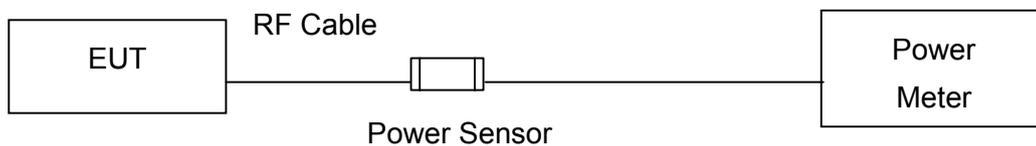
Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2011/01/17
Power Sensor	Agilent	N1921A	MY45241670	2011/01/17

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) MODE



3.3. Test procedures

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

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	3G MOBILE Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.19	1Watt= 30 dBm	Pass
6	2437	23.14	1Watt= 30 dBm	Pass
11	2462	22.18	1Watt= 30 dBm	Pass

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412.00	24.19	24.07	23.91	23.66	1Watt= 30 dBm
6	2437.00	23.14	23.09	22.90	23.07	1Watt= 30 dBm
11	2462.00	22.18	22.10	22.03	21.57	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	3G MOBILE Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	27.91	1Watt= 30 dBm	Pass
6	2437	27.65	1Watt= 30 dBm	Pass
11	2462	27.48	1Watt= 30 dBm	Pass

Peak Power Output Value(dBm)										
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
1	2412.00	27.91	27.68	27.29	27.04	26.91	26.87	26.93	27.11	1Watt= 30 dBm
6	2437.00	27.65	27.38	27.07	26.65	25.86	25.77	25.85	26.09	1Watt= 30 dBm
11	2462.00	27.48	27.22	27.18	27.03	26.94	26.74	26.81	27.00	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	3G MOBILE Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11n 20MHz_Tx

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	26.43	1Watt= 30 dBm	Pass
6	2437	27.28	1Watt= 30 dBm	Pass
11	2462	26.77	1Watt= 30 dBm	Pass

The worst emission of data rate is 6.5 Mbps.

		Peak Power Output (dBm)								Required Limit
MCS Index		0	1	2	3	4	5	6	7	
Channel No	Frequency (MHz)	Data Rate								
				6.5	13	19.5	26	39	52	58.8
1	2412	26.43	26.38	26.02	26.33	26.18	25.93	25.62	25.49	30dBm
6	2437	27.28	27.20	26.67	26.83	26.17	26.02	25.57	25.67	30dBm
11	2462	26.77	26.69	26.27	26.42	26.03	25.89	25.66	25.53	30dBm

Product	3G MOBILE Wireless Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE802.11n 40MHz_Tx

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	27.54	1Watt= 30 dBm	Pass
6	2437	27.22	1Watt= 30 dBm	Pass
9	2452	26.03	1Watt= 30 dBm	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	27.54	27.32	27.03	26.74	26.52	26.59	26.17	26.03	30dBm
6	2437	27.22	27.16	26.77	26.59	26.30	26.71	24.95	24.59	30dBm
9	2452	26.03	25.96	25.88	25.74	25.62	25.53	25.11	25.08	30dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

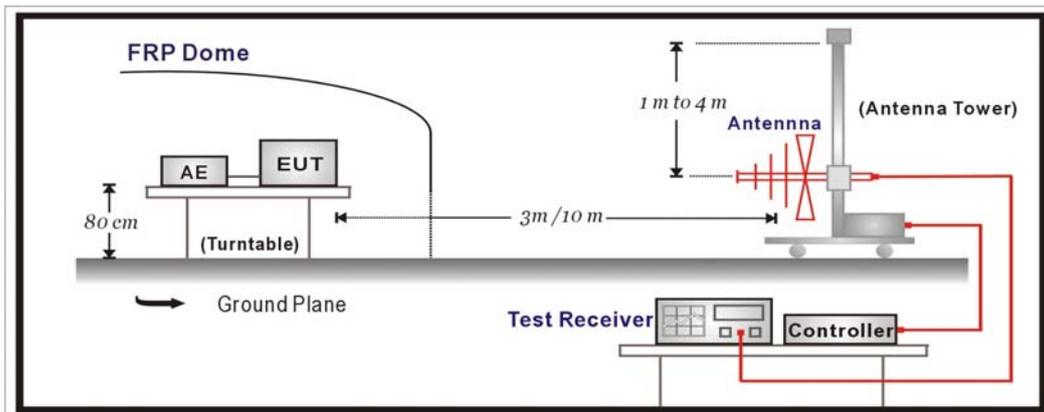
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2011/08/14
Horn Antenna	Schwarzback	BBHA 9120D	743	2011/03/14
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2010/12/03
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2011/03/25
Spectrum Analyzer	Agilent	E4440A	MY46187335	2011/01/14
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2011/04/07

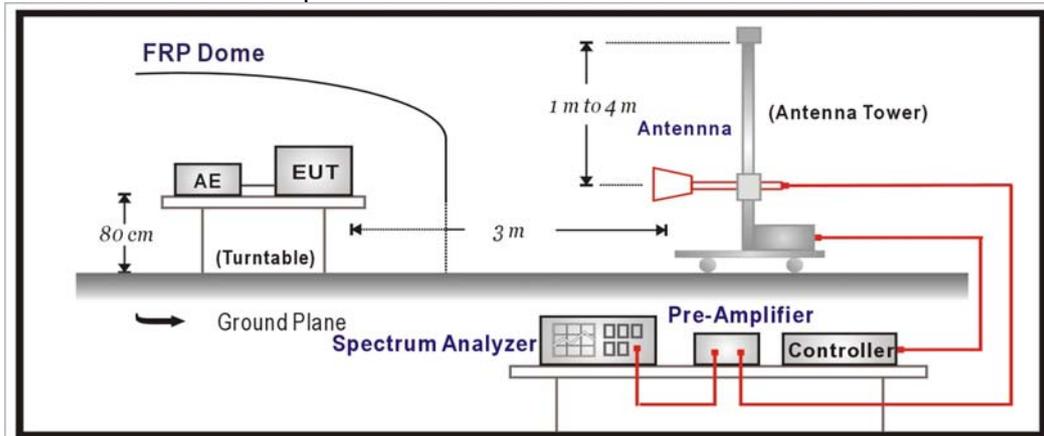
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

4.4. Test Procedure

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

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.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

4.6. Uncertainty

The measurement uncertainty

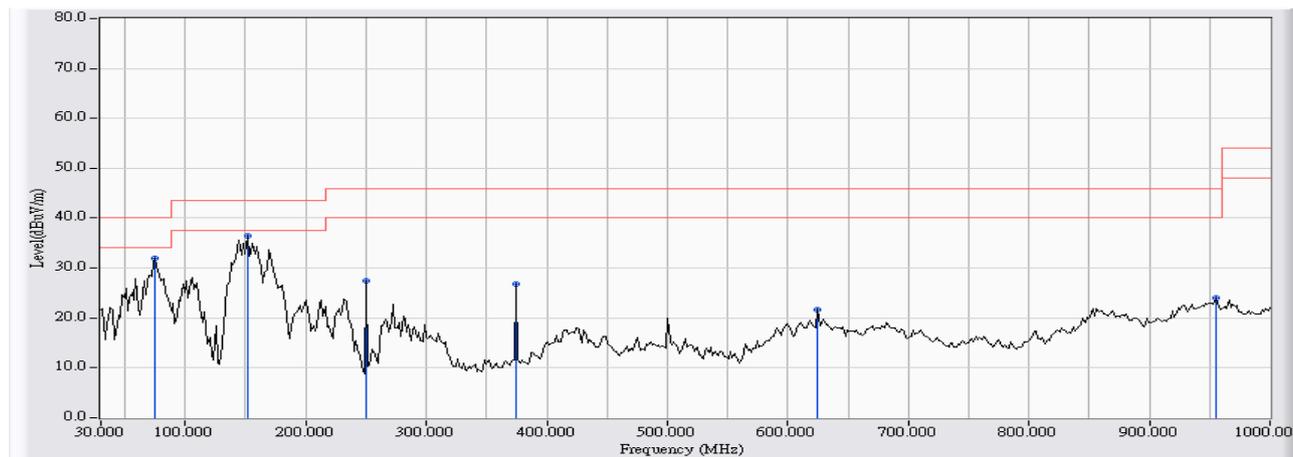
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2010/06/21 - 16:12
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b

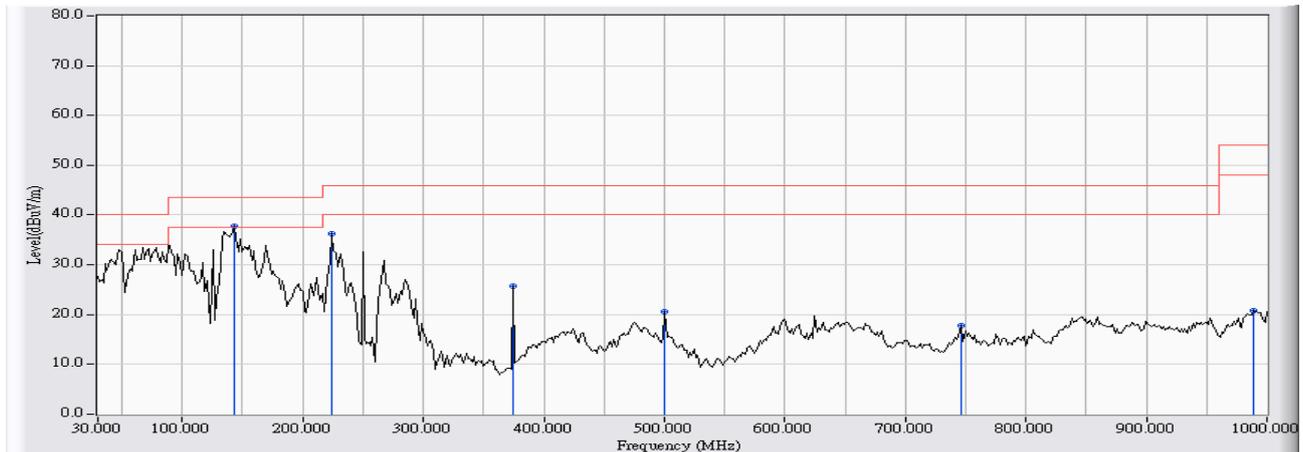


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	75.267	-15.411	47.456	32.044	-7.956	40.000	QUASPEAK
2	* 151.250	-20.195	56.702	36.507	-6.993	43.500	QUASPEAK
3	249.867	-13.345	40.846	27.501	-18.499	46.000	QUASPEAK
4	374.350	-11.121	37.983	26.862	-19.138	46.000	QUASPEAK
5	624.933	-3.554	25.113	21.559	-24.441	46.000	QUASPEAK
6	954.733	2.222	21.755	23.976	-22.024	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:16
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b

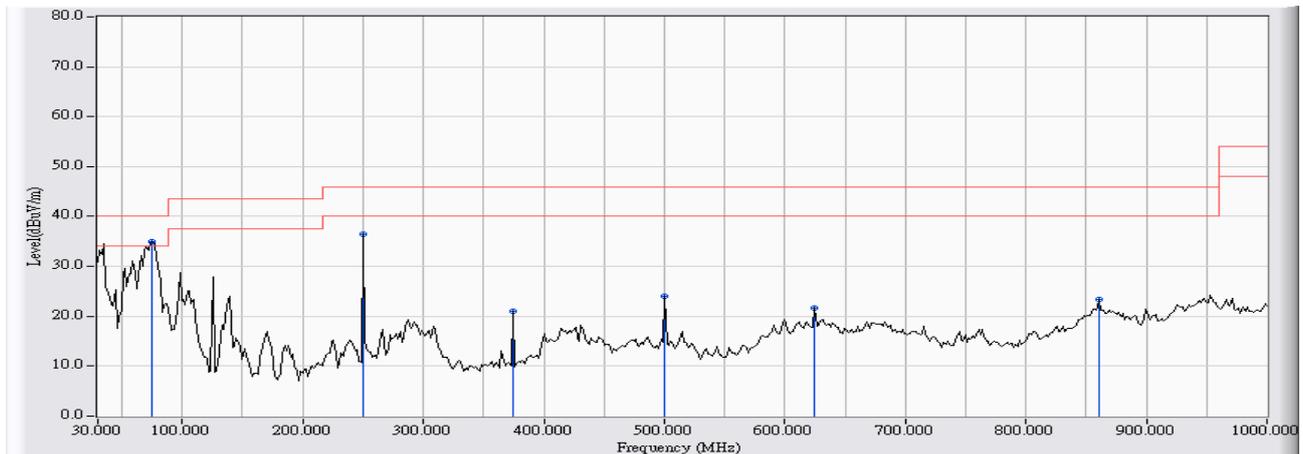


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.167	-13.458	51.201	37.743	-5.757	43.500	QUASPEAK
2		224.000	-12.777	48.930	36.153	-9.847	46.000	QUASPEAK
3		374.350	-12.749	38.426	25.677	-20.323	46.000	QUASPEAK
4		500.450	-6.739	27.424	20.686	-25.314	46.000	QUASPEAK
5		746.183	-5.296	23.198	17.902	-28.098	46.000	QUASPEAK
6		988.683	-0.452	21.290	20.838	-33.162	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11b

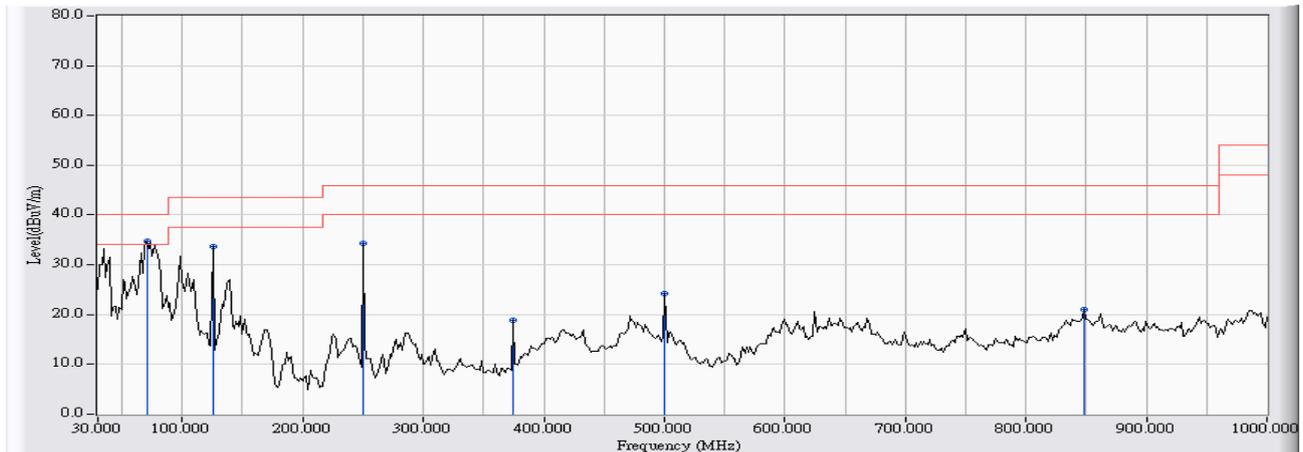


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	75.267	-15.411	50.421	35.009	-4.991	40.000	QUASPEAK
2		249.867	-13.345	49.754	36.409	-9.591	46.000	QUASPEAK
3		374.350	-11.121	32.121	21.000	-25.000	46.000	QUASPEAK
4		500.450	-7.421	31.423	24.003	-21.997	46.000	QUASPEAK
5		624.933	-3.554	25.256	21.702	-24.298	46.000	QUASPEAK
6		860.967	0.353	23.051	23.403	-22.597	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11b

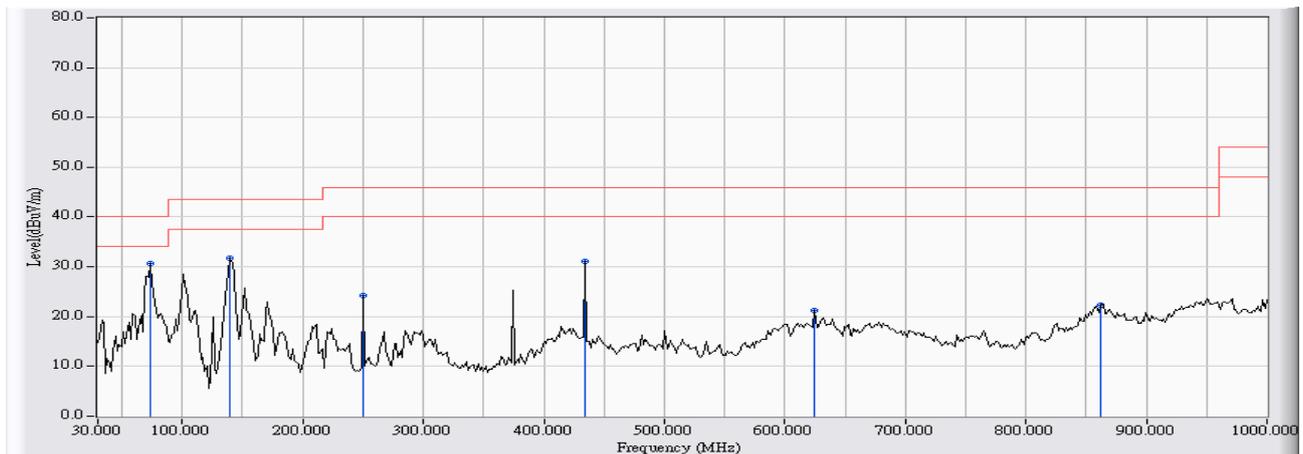


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	70.417	-15.480	50.235	34.755	-5.245	40.000	QUASPEAK
2		125.383	-11.830	45.438	33.608	-9.892	43.500	QUASPEAK
3		249.867	-14.145	48.559	34.414	-11.586	46.000	QUASPEAK
4		374.350	-12.749	31.638	18.889	-27.111	46.000	QUASPEAK
5		500.450	-6.739	30.974	24.236	-21.764	46.000	QUASPEAK
6		848.033	-2.171	23.208	21.037	-24.963	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g

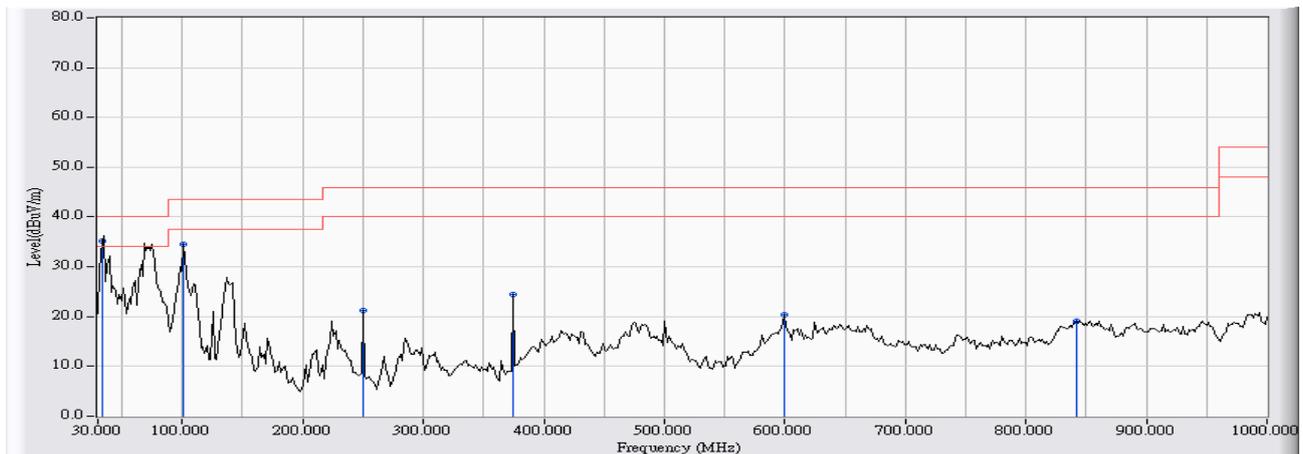


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	73.650	-15.332	46.080	30.748	-9.252	40.000	QUASPEAK
2		139.933	-16.812	48.576	31.764	-11.736	43.500	QUASPEAK
3		249.867	-13.345	37.482	24.137	-21.863	46.000	QUASPEAK
4		434.167	-6.367	37.423	31.056	-14.944	46.000	QUASPEAK
5		624.933	-3.554	24.690	21.136	-24.864	46.000	QUASPEAK
6		862.583	0.155	22.175	22.329	-23.671	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g

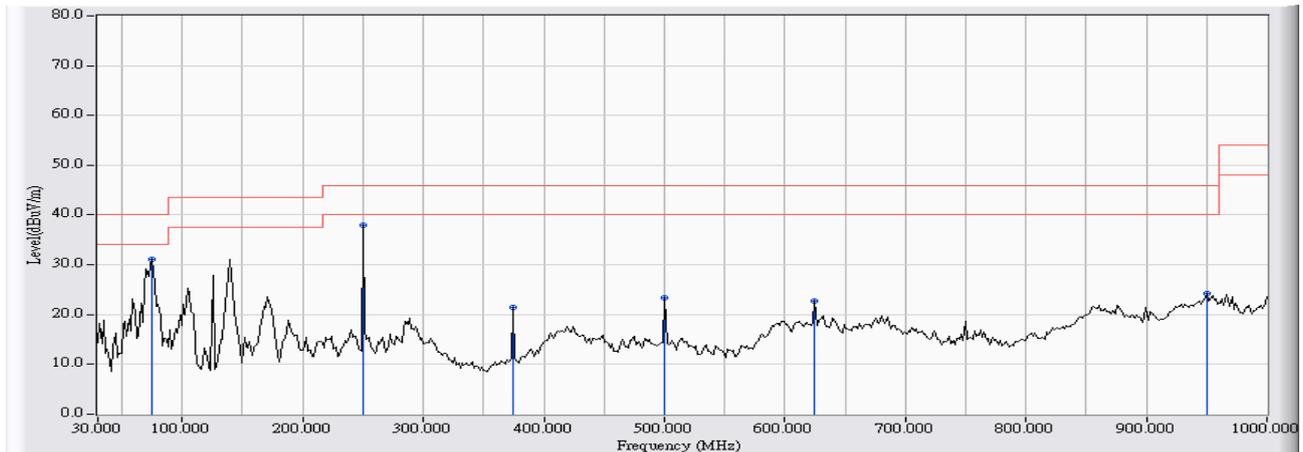


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	33.233	-12.442	47.665	35.222	-4.778	40.000	QUASPEAK
2		101.133	-11.753	46.201	34.448	-9.052	43.500	QUASPEAK
3		249.867	-14.145	35.361	21.216	-24.784	46.000	QUASPEAK
4		374.350	-12.749	37.290	24.541	-21.459	46.000	QUASPEAK
5		599.067	-2.926	23.235	20.310	-25.690	46.000	QUASPEAK
6		841.567	-2.270	21.438	19.168	-26.832	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:39
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11g

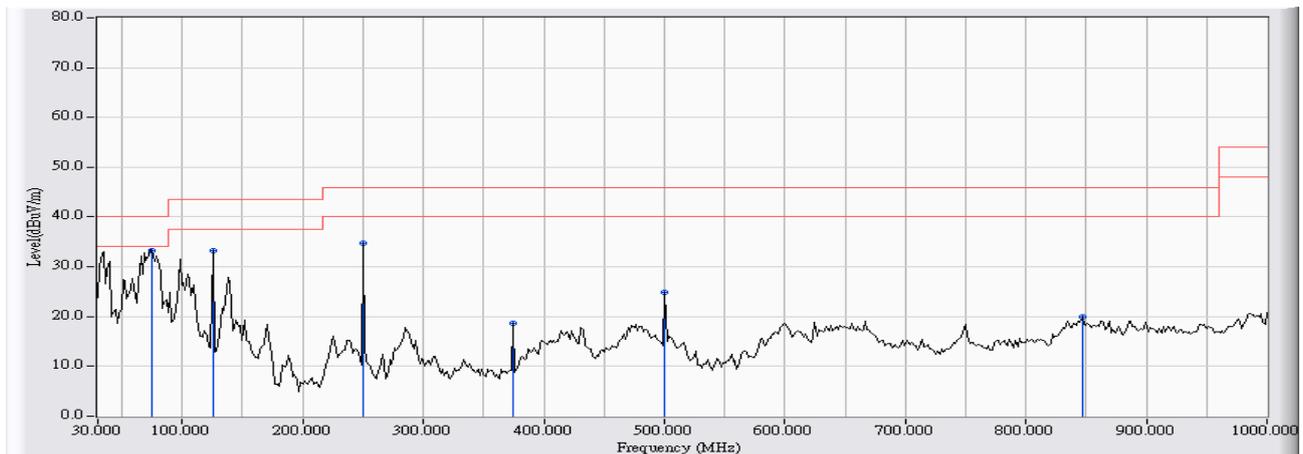


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	75.267	-15.411	46.494	31.082	-8.918	40.000	QUASPEAK
2	* 249.867	-13.345	51.249	37.904	-8.096	46.000	QUASPEAK
3	374.350	-11.121	32.536	21.415	-24.585	46.000	QUASPEAK
4	500.450	-7.421	30.902	23.482	-22.518	46.000	QUASPEAK
5	624.933	-3.554	26.394	22.840	-23.160	46.000	QUASPEAK
6	949.883	2.309	21.969	24.278	-21.722	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:42
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11g

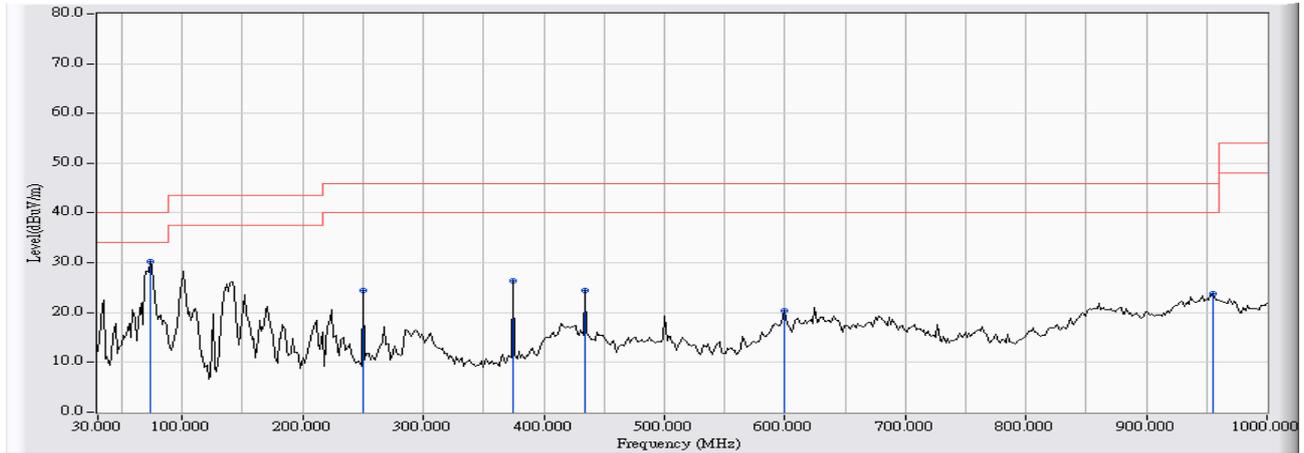


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	75.267	-15.490	48.717	33.227	-6.773	40.000	QUASPEAK
2		125.383	-11.830	45.096	33.266	-10.234	43.500	QUASPEAK
3		249.867	-14.145	48.949	34.804	-11.196	46.000	QUASPEAK
4		374.350	-12.749	31.474	18.725	-27.275	46.000	QUASPEAK
5		500.450	-6.739	31.555	24.817	-21.183	46.000	QUASPEAK
6		846.417	-2.113	21.970	19.858	-26.142	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)

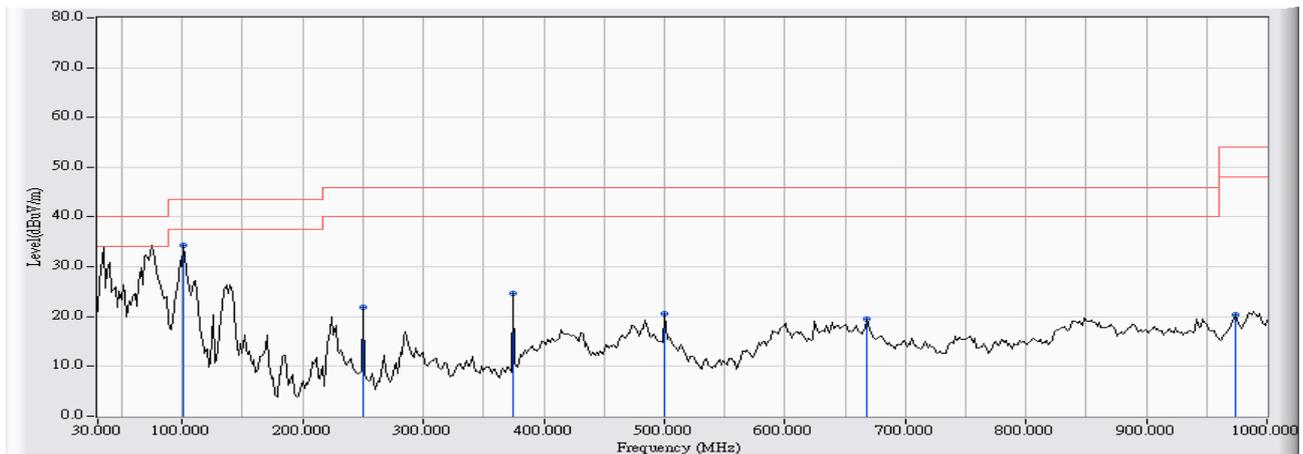


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	73.650	-15.332	45.523	30.191	-9.809	40.000	QUASPEAK
2		249.867	-13.345	37.894	24.549	-21.451	46.000	QUASPEAK
3		374.350	-11.121	37.406	26.285	-19.715	46.000	QUASPEAK
4		434.167	-6.367	30.762	24.395	-21.605	46.000	QUASPEAK
5		599.067	-2.670	22.956	20.286	-25.714	46.000	QUASPEAK
6		954.733	2.222	21.490	23.711	-22.289	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:41
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)

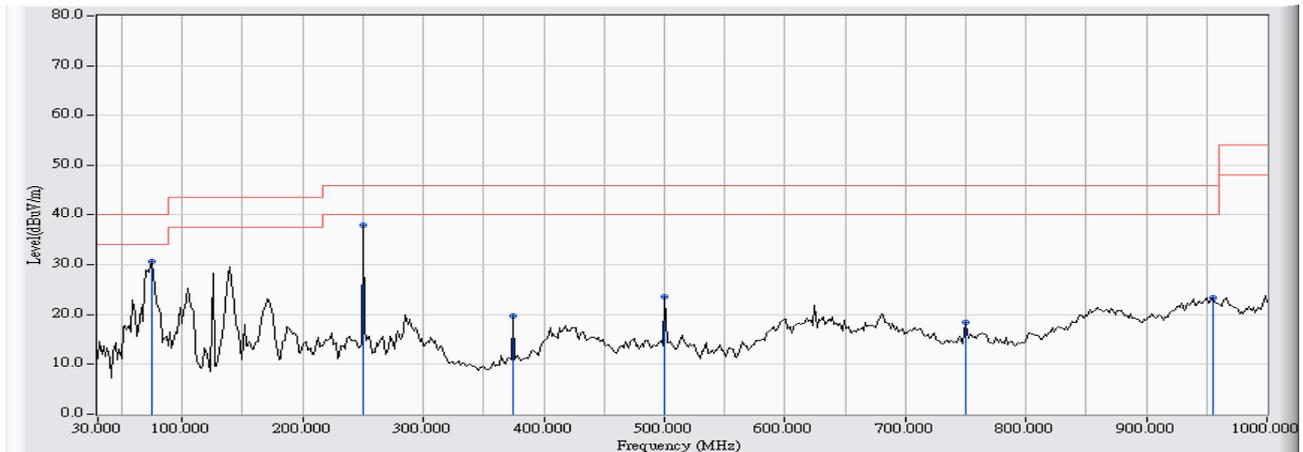


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-11.753	46.117	34.364	-9.136	43.500	QUASPEAK
2		249.867	-14.145	35.991	21.846	-24.154	46.000	QUASPEAK
3		374.350	-12.749	37.444	24.695	-21.305	46.000	QUASPEAK
4		500.450	-6.739	27.293	20.555	-25.445	46.000	QUASPEAK
5		668.583	-3.250	22.664	19.413	-26.587	46.000	QUASPEAK
6		974.133	-1.901	22.293	20.392	-33.608	54.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:48
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(20MHz)

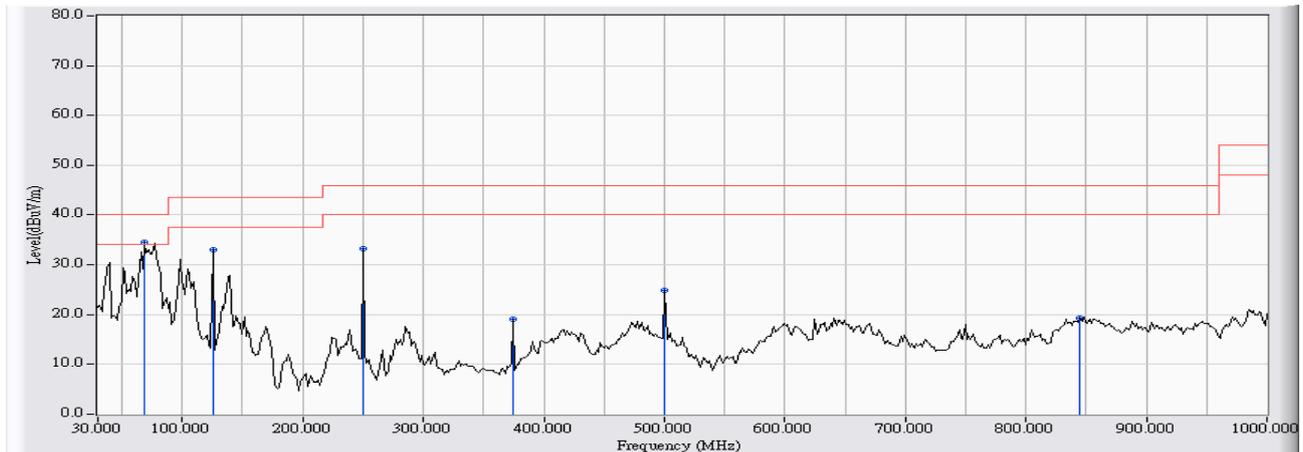


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	75.267	-15.411	46.074	30.662	-9.338	40.000	QUASPEAK
2	* 249.867	-13.345	51.257	37.912	-8.088	46.000	QUASPEAK
3	374.350	-11.121	30.853	19.732	-26.268	46.000	QUASPEAK
4	500.450	-7.421	30.989	23.569	-22.431	46.000	QUASPEAK
5	749.417	-6.435	24.940	18.506	-27.494	46.000	QUASPEAK
6	954.733	2.222	21.081	23.302	-22.698	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(20MHz)

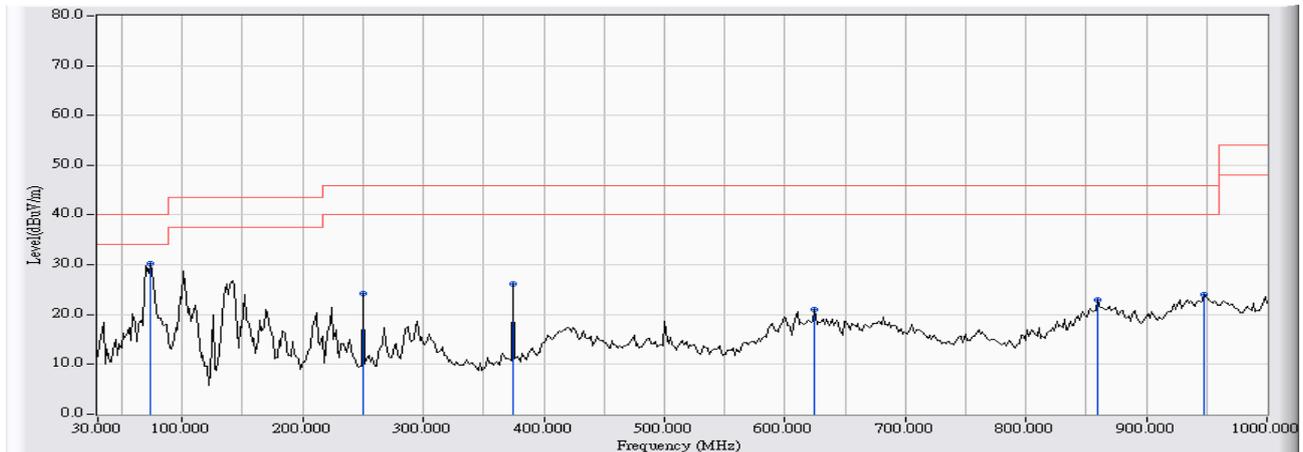


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.800	-15.659	50.146	34.486	-5.514	40.000	QUASPEAK
2		125.383	-11.830	44.821	32.991	-10.509	43.500	QUASPEAK
3		249.867	-14.145	47.399	33.254	-12.746	46.000	QUASPEAK
4		374.350	-12.749	31.938	19.189	-26.811	46.000	QUASPEAK
5		500.450	-6.739	31.626	24.888	-21.112	46.000	QUASPEAK
6		844.800	-2.072	21.304	19.232	-26.768	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:46
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)

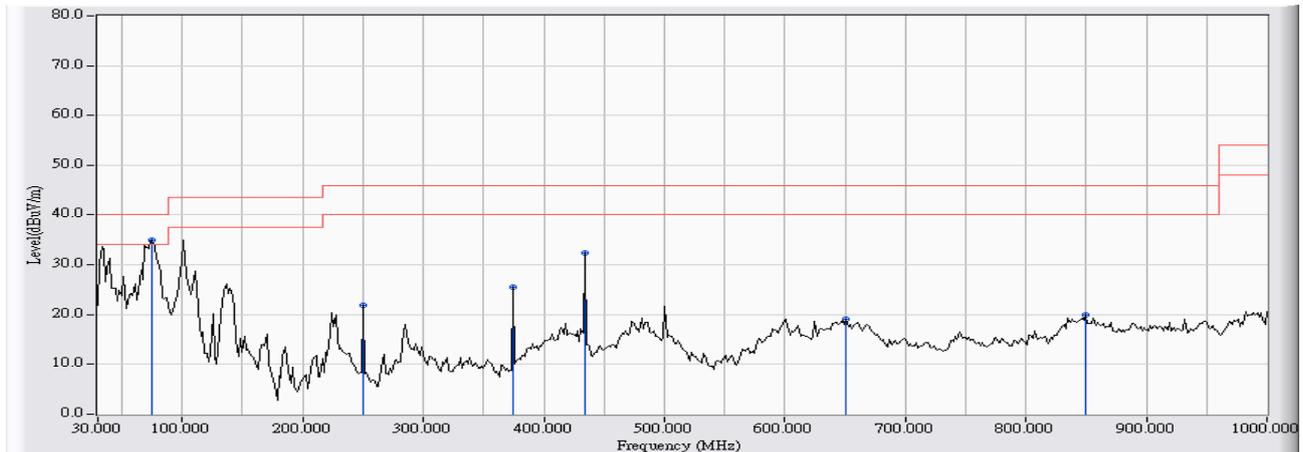


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	73.650	-15.332	45.627	30.295	-9.705	40.000	QUASPEAK
2		249.867	-13.345	37.562	24.217	-21.783	46.000	QUASPEAK
3		374.350	-11.121	37.272	26.151	-19.849	46.000	QUASPEAK
4		624.933	-3.554	24.616	21.062	-24.938	46.000	QUASPEAK
5		859.350	0.424	22.436	22.861	-23.139	46.000	QUASPEAK
6		948.267	2.089	21.933	24.022	-21.978	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 16:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)

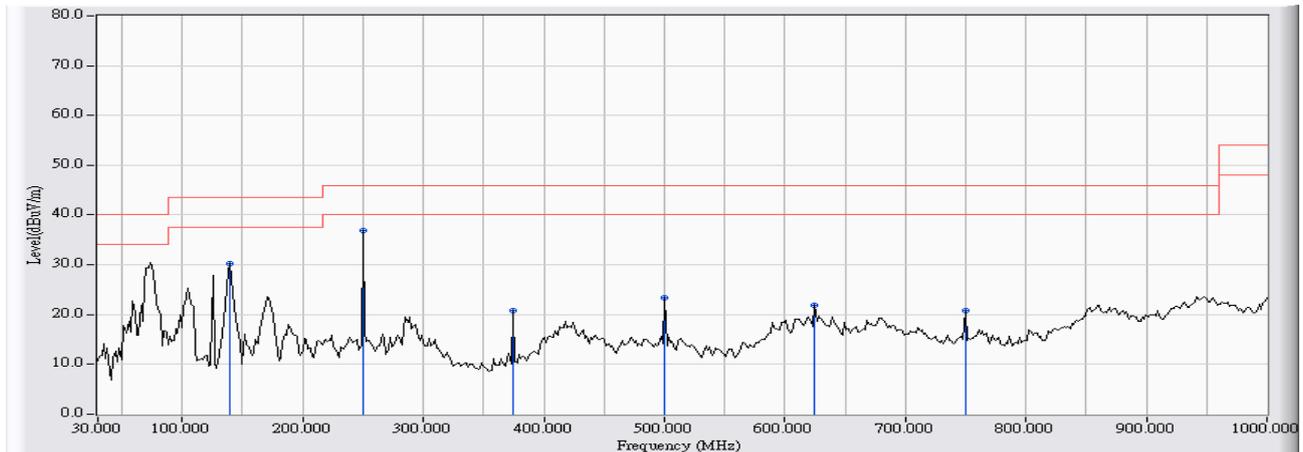


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	75.267	-15.490	50.467	34.977	-5.023	40.000	QUASIPeAK
2		249.867	-14.145	36.010	21.865	-24.135	46.000	QUASIPeAK
3		374.350	-12.749	38.358	25.609	-20.391	46.000	QUASIPeAK
4		434.167	-7.147	39.492	32.345	-13.655	46.000	QUASIPeAK
5		650.800	-3.163	22.355	19.192	-26.808	46.000	QUASIPeAK
6		849.650	-2.240	22.120	19.880	-26.120	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2010/06/21 - 17:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(40MHz)

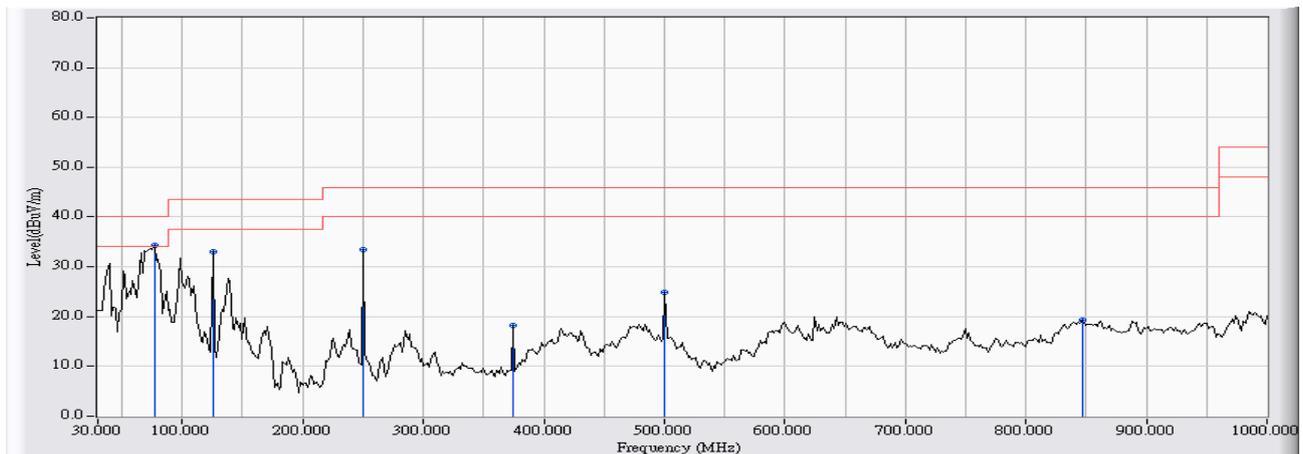


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	139.933	-16.812	47.003	30.191	-13.309	43.500	QUASPEAK
2	* 249.867	-13.345	50.312	36.967	-9.033	46.000	QUASPEAK
3	374.350	-11.121	32.008	20.887	-25.113	46.000	QUASPEAK
4	500.450	-7.421	30.823	23.403	-22.597	46.000	QUASPEAK
5	624.933	-3.554	25.475	21.921	-24.079	46.000	QUASPEAK
6	749.417	-6.435	27.302	20.868	-25.132	46.000	QUASPEAK

Note:

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

Site : CB1	Time : 2010/06/21 - 18:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : FCC_30-1G(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 2: Transmit_Sunny_802.11n(40MHz)



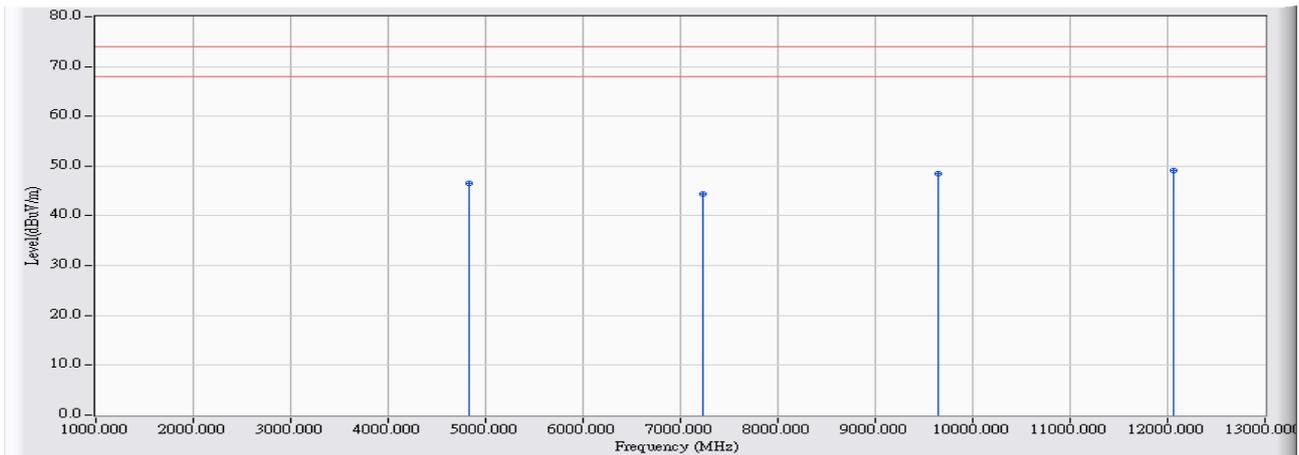
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	76.883	-15.187	49.427	34.240	-5.760	40.000	QUASPEAK
2		125.383	-11.830	44.798	32.968	-10.532	43.500	QUASPEAK
3		249.867	-14.145	47.502	33.357	-12.643	46.000	QUASPEAK
4		374.350	-12.749	30.988	18.239	-27.761	46.000	QUASPEAK
5		500.450	-6.739	31.699	24.961	-21.039	46.000	QUASPEAK
6		846.417	-2.113	21.433	19.321	-26.679	46.000	QUASPEAK

Note:

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

Harmonic & Spurious:

Site : CB1	Time : 2010/07/19 - 09:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

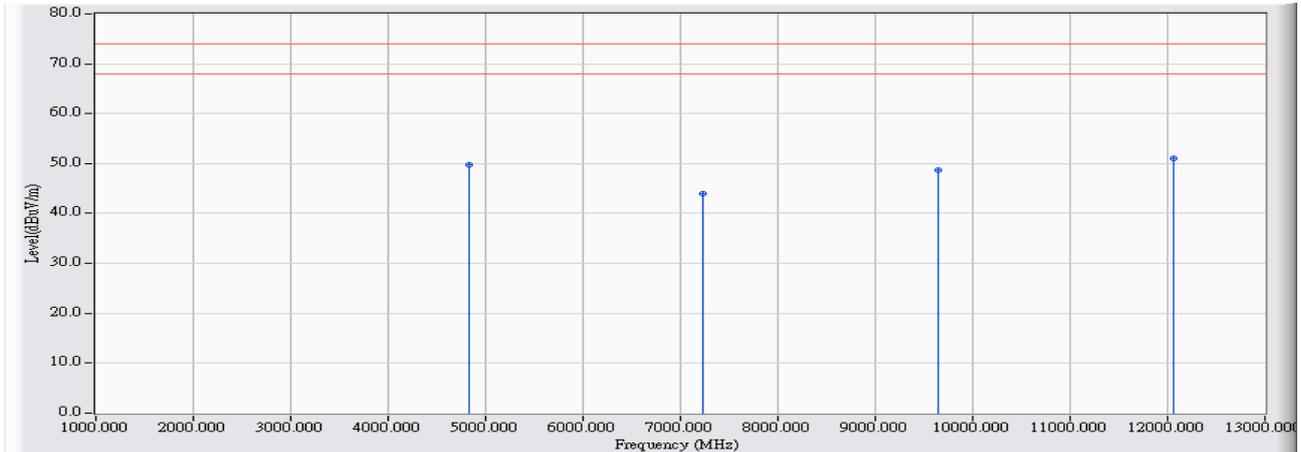


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.100	0.402	46.090	46.492	-27.508	74.000	54.00	PEAK
2	7236.900	6.887	37.510	44.397	-29.603	74.000	54.00	PEAK
3	9649.400	10.819	37.760	48.579	-25.421	74.000	54.00	PEAK
4	* 12063.400	15.607	33.490	49.096	-24.904	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 09:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

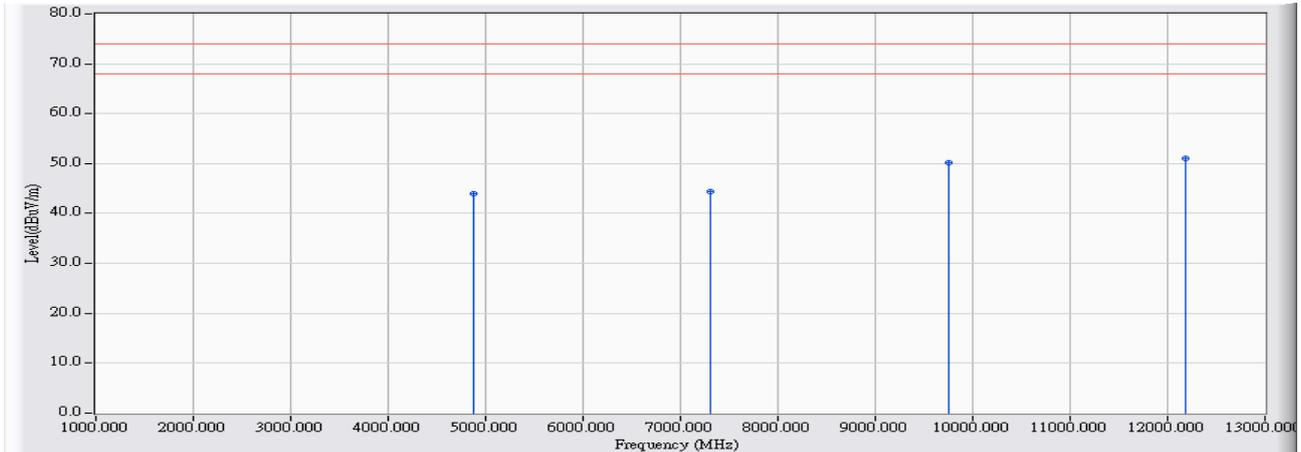


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.210	2.540	47.140	49.679	-24.321	74.000	54.00	PEAK
2	7236.840	6.459	37.500	43.960	-30.040	74.000	54.00	PEAK
3	9649.260	10.924	37.680	48.604	-25.396	74.000	54.00	PEAK
4	* 12063.190	14.346	36.630	50.976	-23.024	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:06
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2437 MHz

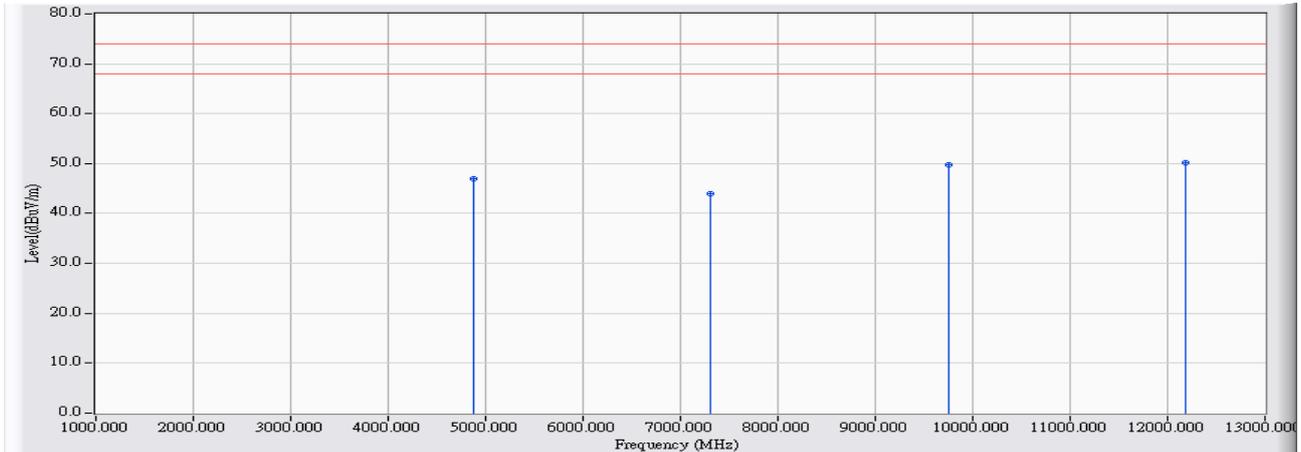


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.130	0.531	43.340	43.871	-30.129	74.000	54.00	PEAK
2	7311.020	7.227	37.210	44.437	-29.563	74.000	54.00	PEAK
3	9749.000	11.224	38.870	50.094	-23.906	74.000	54.00	PEAK
4	* 12185.400	15.119	35.840	50.960	-23.040	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2437 MHz

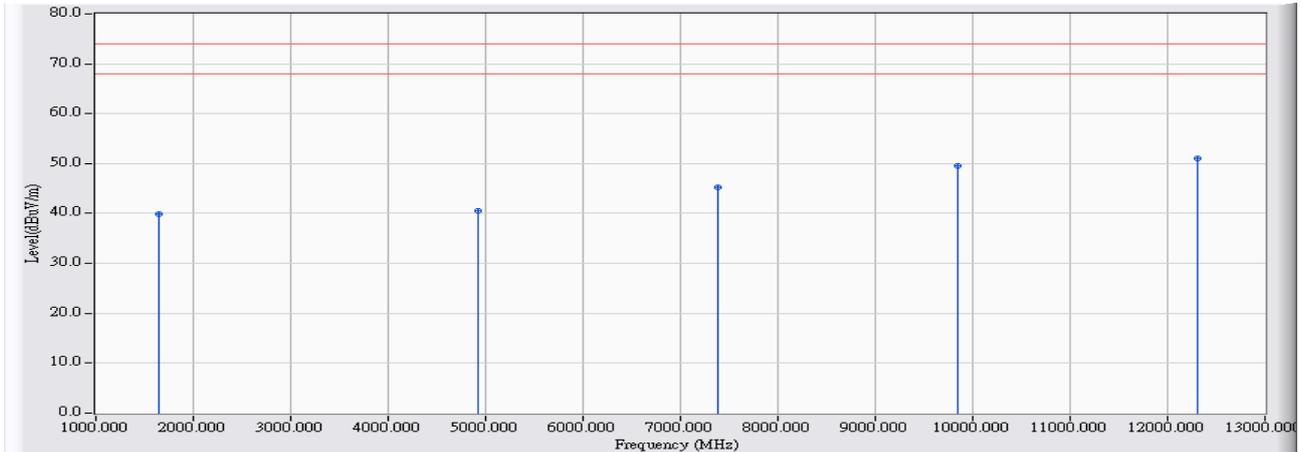


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.320	2.577	44.410	46.987	-27.013	74.000	54.00	PEAK
2	7311.240	6.605	37.260	43.865	-30.135	74.000	54.00	PEAK
3	9749.510	11.427	38.430	49.857	-24.143	74.000	54.00	PEAK
4	* 12185.380	14.126	36.040	50.166	-23.834	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

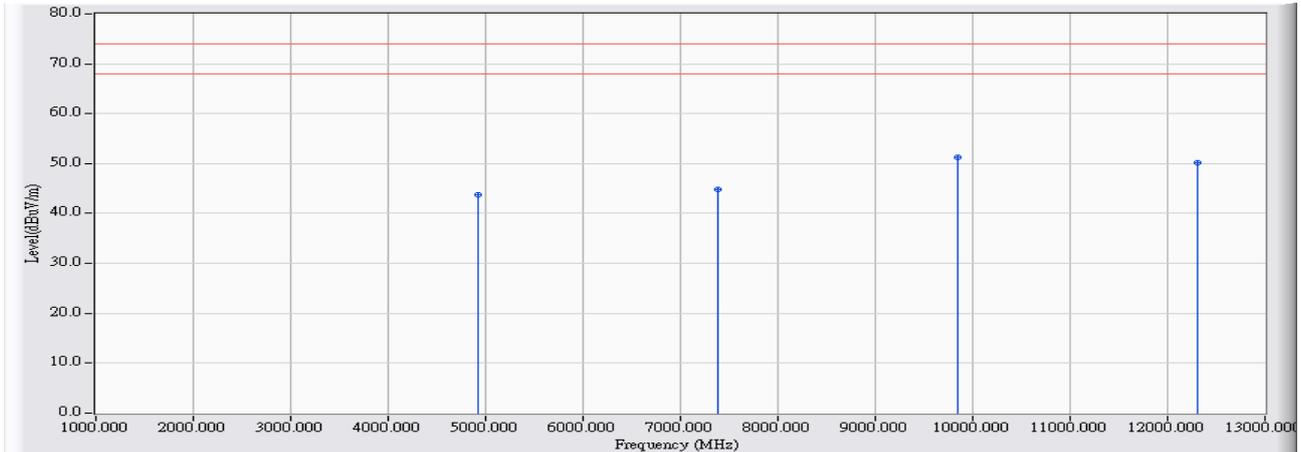


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	1641.180	-9.677	49.540	39.864	-34.136	74.000	54.00	PEAK
2	4923.940	0.667	39.800	40.468	-33.532	74.000	54.00	PEAK
3	7386.220	7.582	37.600	45.182	-28.818	74.000	54.00	PEAK
4	9848.160	11.618	37.910	49.528	-24.472	74.000	54.00	PEAK
5	* 12310.060	14.632	36.330	50.962	-23.038	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

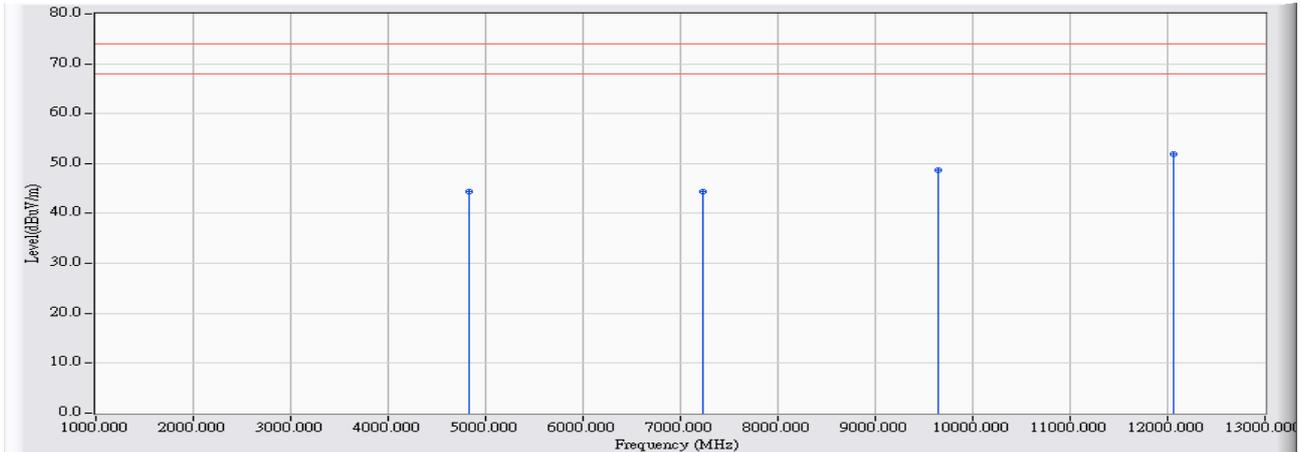


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4923.850	2.604	41.140	43.744	-30.256	74.000	54.00	PEAK
2	7386.340	6.760	37.960	44.720	-29.280	74.000	54.00	PEAK
3	* 9848.160	11.922	39.440	51.362	-22.638	74.000	54.00	PEAK
4	12310.490	13.890	36.300	50.191	-23.809	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:48
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

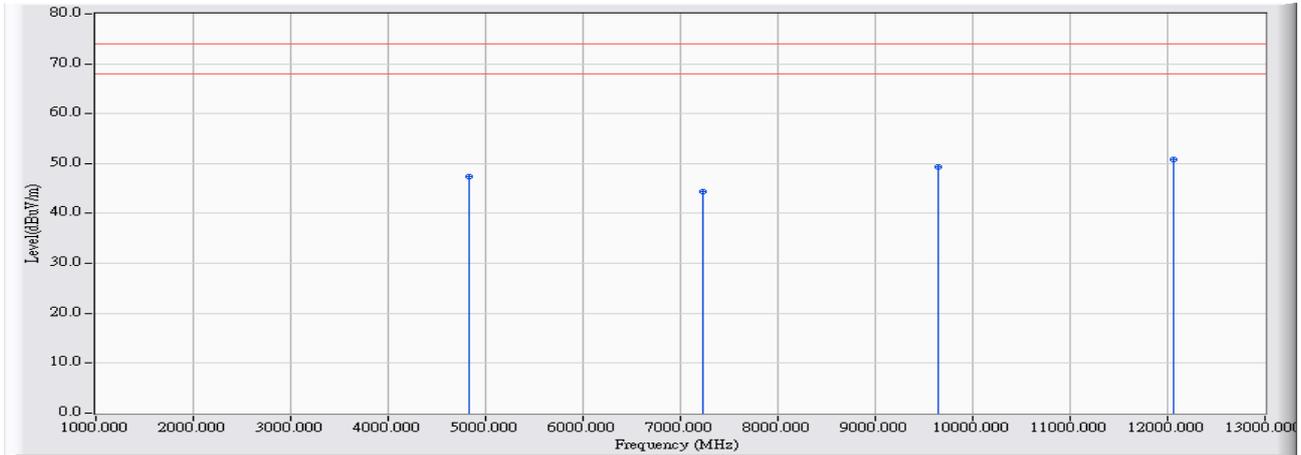


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.250	0.403	44.090	44.492	-29.508	74.000	54.00	PEAK
2	7236.840	6.886	37.410	44.297	-29.703	74.000	54.00	PEAK
3	9649.220	10.818	37.840	48.658	-25.342	74.000	54.00	PEAK
4	* 12063.380	15.607	36.250	51.856	-22.144	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 10:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

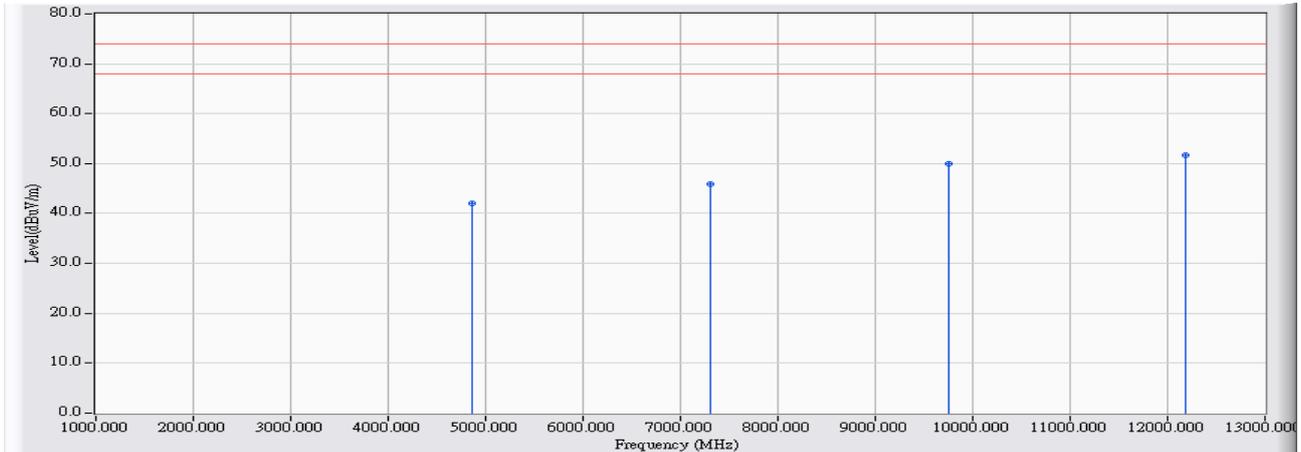


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.570	2.539	44.920	47.460	-26.540	74.000	54.00	PEAK
2	7236.480	6.459	38.030	44.489	-29.511	74.000	54.00	PEAK
3	9649.260	10.924	38.400	49.324	-24.676	74.000	54.00	PEAK
4	* 12063.110	14.346	36.470	50.816	-23.184	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2437 MHz

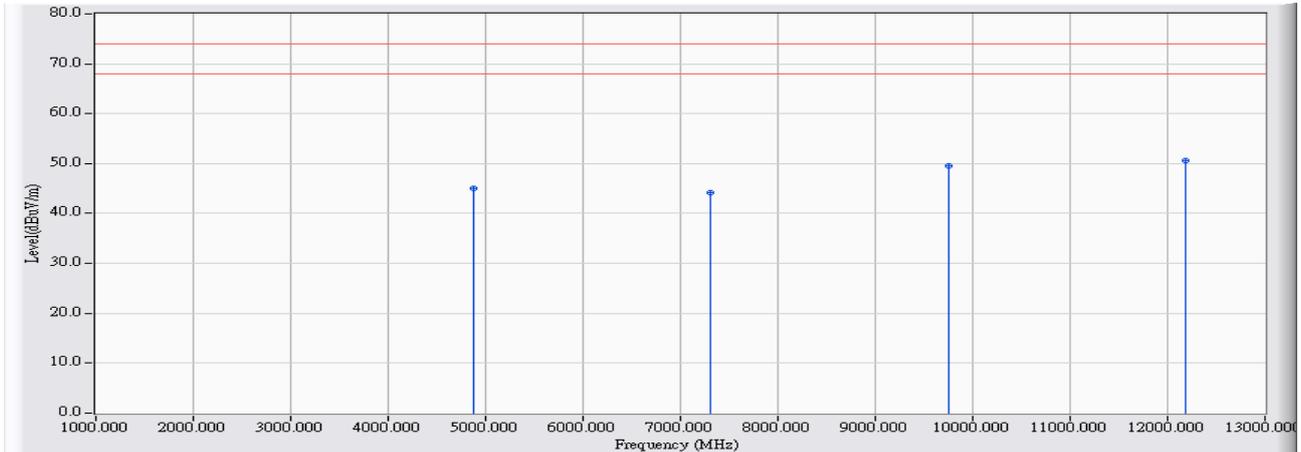


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4869.200	0.519	41.460	41.979	-32.021	74.000	54.00	PEAK
2	7313.600	7.239	38.570	45.809	-28.191	74.000	54.00	PEAK
3	9747.200	11.217	38.680	49.897	-24.103	74.000	54.00	PEAK
4	* 12187.400	15.112	36.610	51.722	-22.278	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2437 MHz

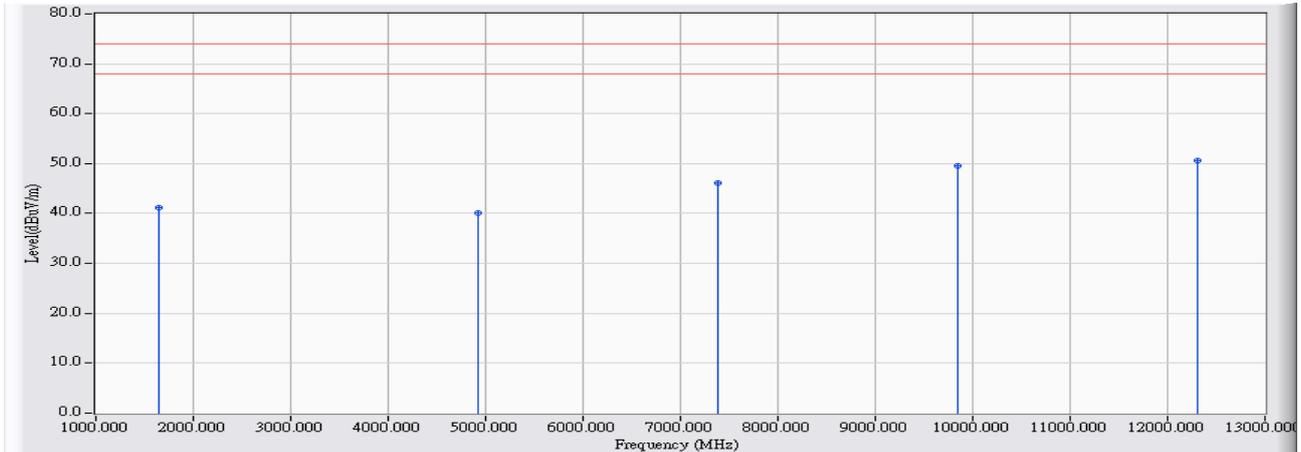


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4869.280	2.572	42.450	45.022	-28.978	74.000	54.00	PEAK
2	7313.540	6.609	37.570	44.179	-29.821	74.000	54.00	PEAK
3	9747.380	11.417	38.120	49.537	-24.463	74.000	54.00	PEAK
4	* 12187.390	14.123	36.570	50.692	-23.308	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

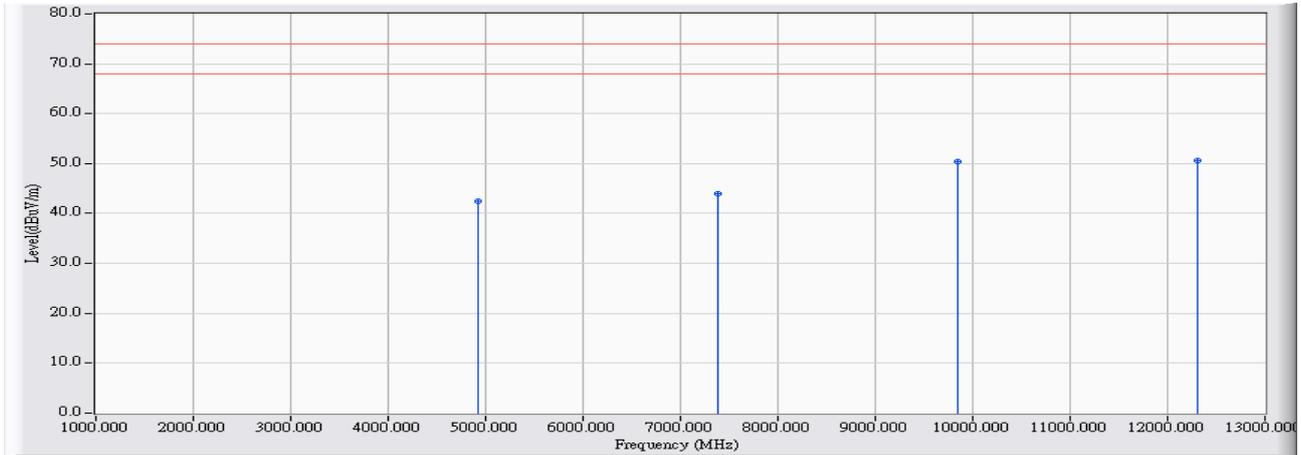


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	1641.230	-9.676	50.830	41.154	-32.846	74.000	54.00	PEAK
2	4923.860	0.667	39.520	40.188	-33.812	74.000	54.00	PEAK
3	7386.410	7.583	38.530	46.113	-27.887	74.000	54.00	PEAK
4	9848.270	11.619	37.920	49.539	-24.461	74.000	54.00	PEAK
5	* 12310.140	14.632	36.060	50.692	-23.308	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

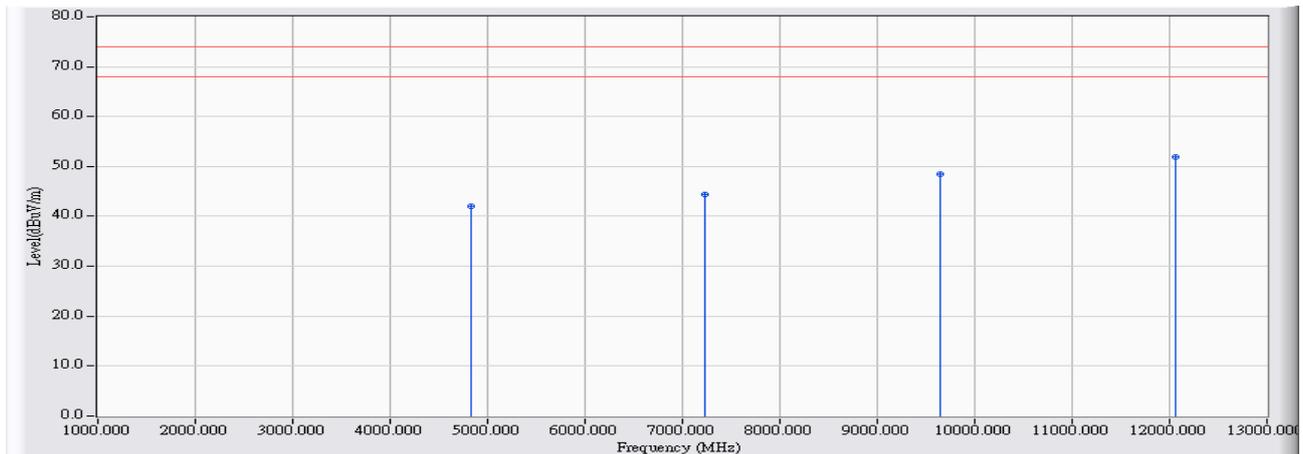


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4923.670	2.604	39.850	42.454	-31.546	74.000	54.00	PEAK
2	7386.140	6.760	37.240	44.000	-30.000	74.000	54.00	PEAK
3	9848.200	11.923	38.560	50.482	-23.518	74.000	54.00	PEAK
4	* 12309.870	13.893	36.640	50.532	-23.468	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

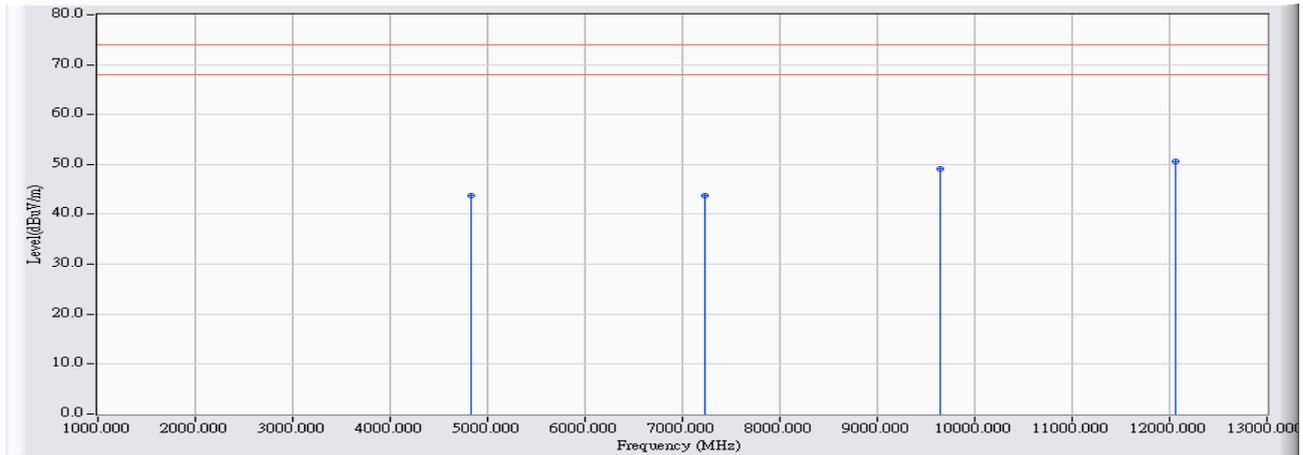


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.600	0.404	41.620	42.024	-31.976	74.000	54.00	PEAK
2	7237.600	6.890	37.530	44.420	-29.580	74.000	54.00	PEAK
3	9650.400	10.823	37.700	48.523	-25.477	74.000	54.00	PEAK
4	* 12062.200	15.610	36.290	51.901	-22.099	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 11:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

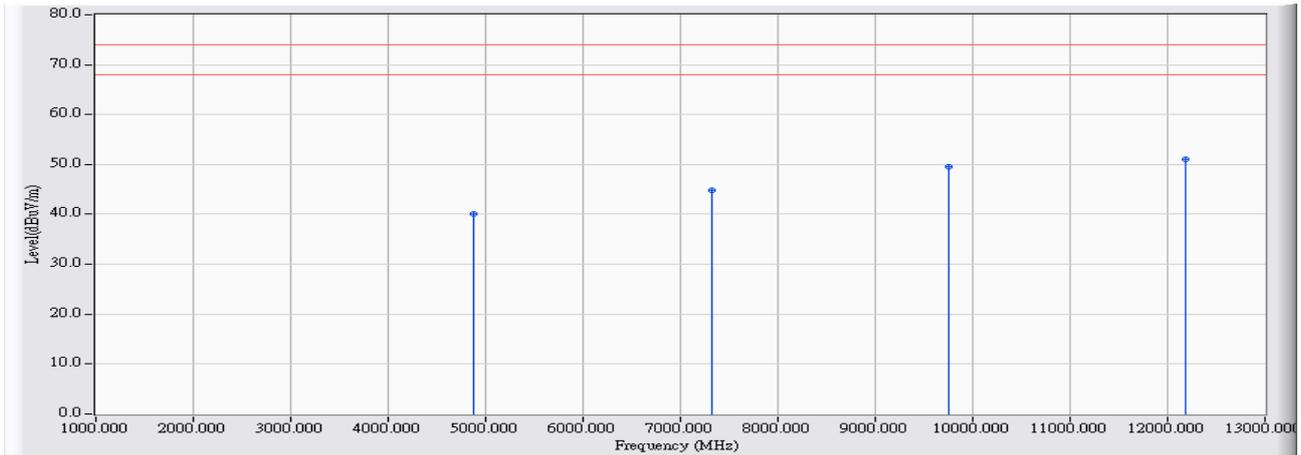


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.370	2.540	41.300	43.839	-30.161	74.000	54.00	PEAK
2	7237.500	6.461	37.250	43.711	-30.289	74.000	54.00	PEAK
3	9650.380	10.930	38.260	49.190	-24.810	74.000	54.00	PEAK
4	* 12062.170	14.347	36.220	50.568	-23.432	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 12:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2437 MHz

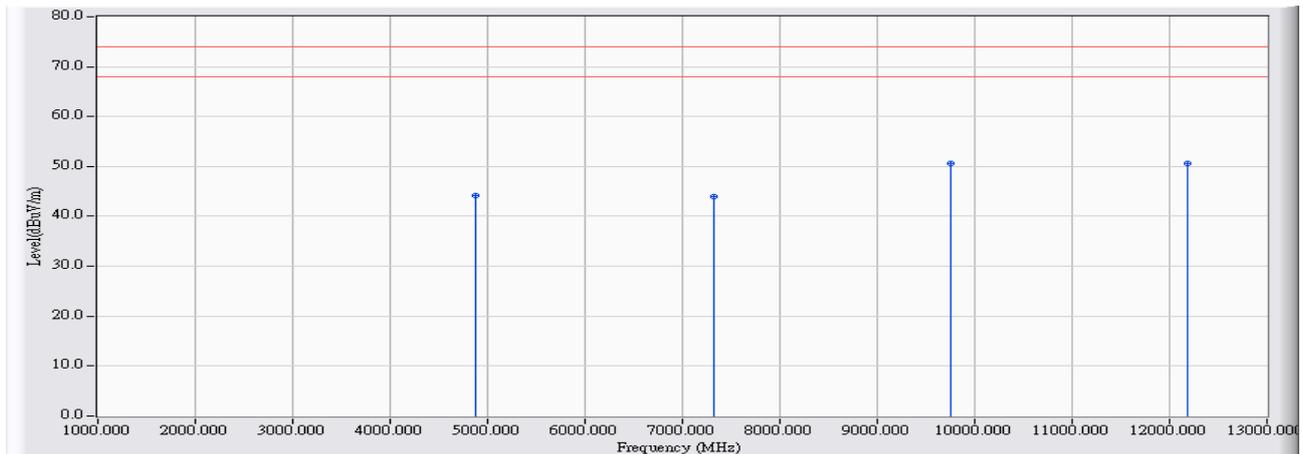


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4870.840	0.523	39.642	40.165	-33.835	74.000	54.00	PEAK
2	7315.620	7.248	37.492	44.740	-29.260	74.000	54.00	PEAK
3	9755.170	11.250	38.306	49.556	-24.444	74.000	54.00	PEAK
4	* 12184.570	15.122	36.008	51.131	-22.869	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 13:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2437 MHz

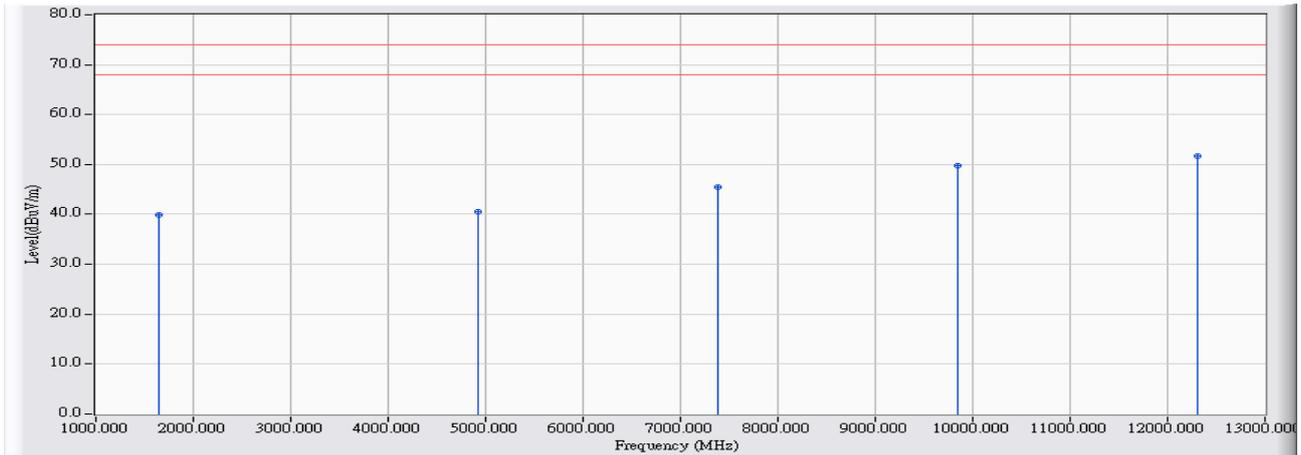


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4870.680	2.574	41.620	44.193	-29.807	74.000	54.00	PEAK
2	7315.720	6.613	37.440	44.053	-29.947	74.000	54.00	PEAK
3	9755.140	11.454	39.100	50.554	-23.446	74.000	54.00	PEAK
4	* 12184.650	14.126	36.450	50.577	-23.423	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 13:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

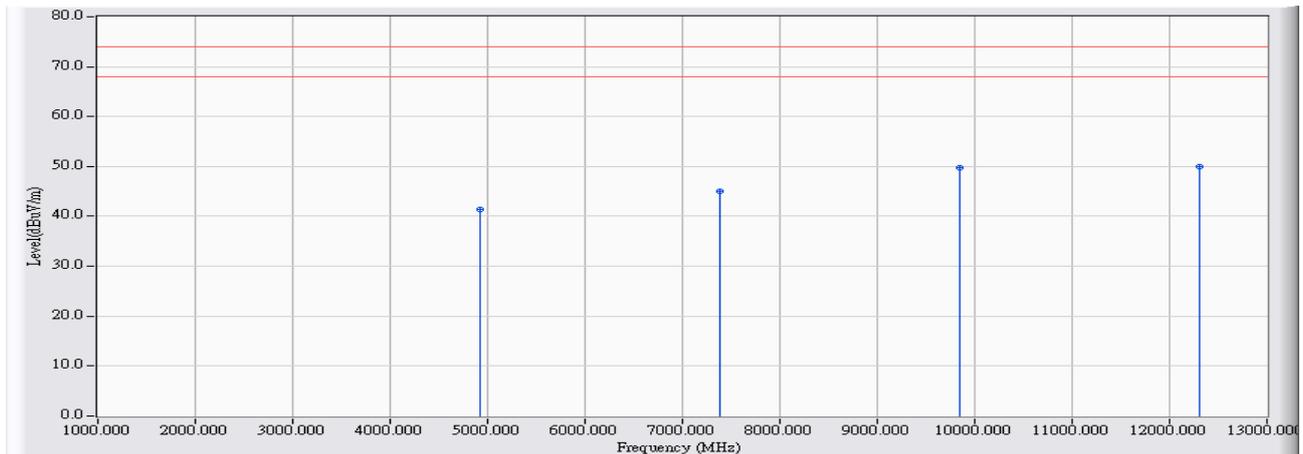


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	1641.280	-9.676	49.590	39.915	-34.085	74.000	54.00	PEAK
2	4920.200	0.659	39.810	40.469	-33.531	74.000	54.00	PEAK
3	7388.100	7.591	37.780	45.371	-28.629	74.000	54.00	PEAK
4	9849.000	11.621	38.210	49.832	-24.168	74.000	54.00	PEAK
5	* 12311.200	14.627	37.150	51.778	-22.222	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 13:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

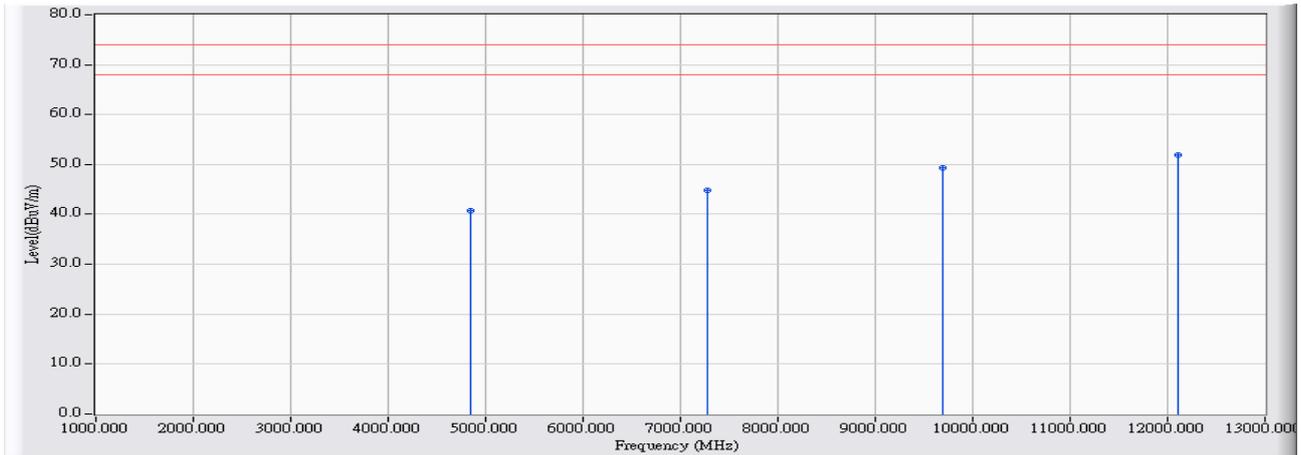


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4920.200	2.601	38.790	41.391	-32.609	74.000	54.00	PEAK
2	7388.240	6.764	38.250	45.014	-28.986	74.000	54.00	PEAK
3	9849.510	11.929	37.760	49.689	-24.311	74.000	54.00	PEAK
4	* 12311.090	13.890	36.080	49.970	-24.030	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

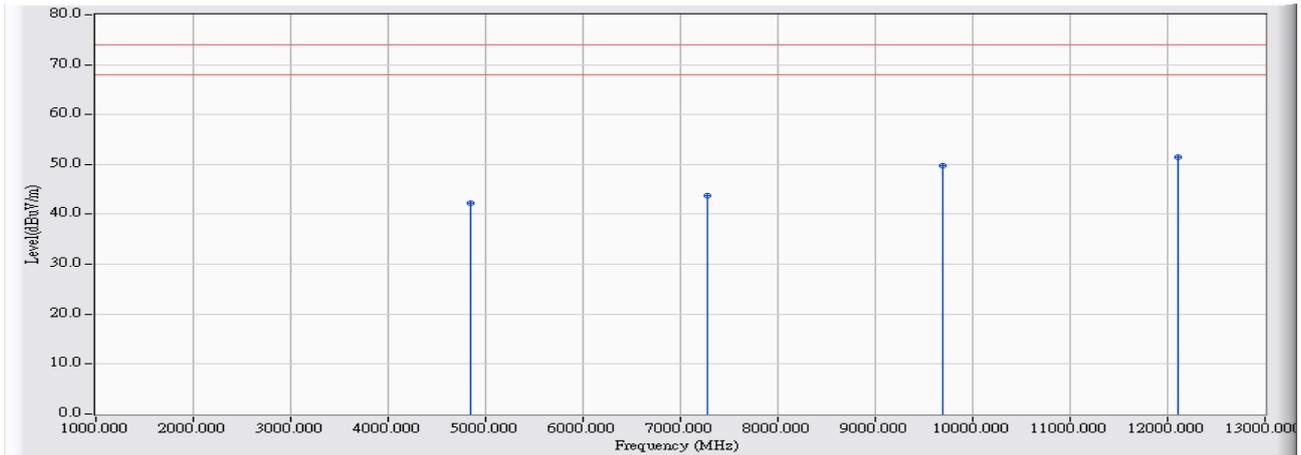


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4844.480	0.452	40.240	40.692	-33.308	74.000	54.00	PEAK
2	7278.400	7.077	37.720	44.797	-29.203	74.000	54.00	PEAK
3	9689.600	10.977	38.440	49.417	-24.583	74.000	54.00	PEAK
4	* 12114.400	15.407	36.470	51.877	-22.123	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:24
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

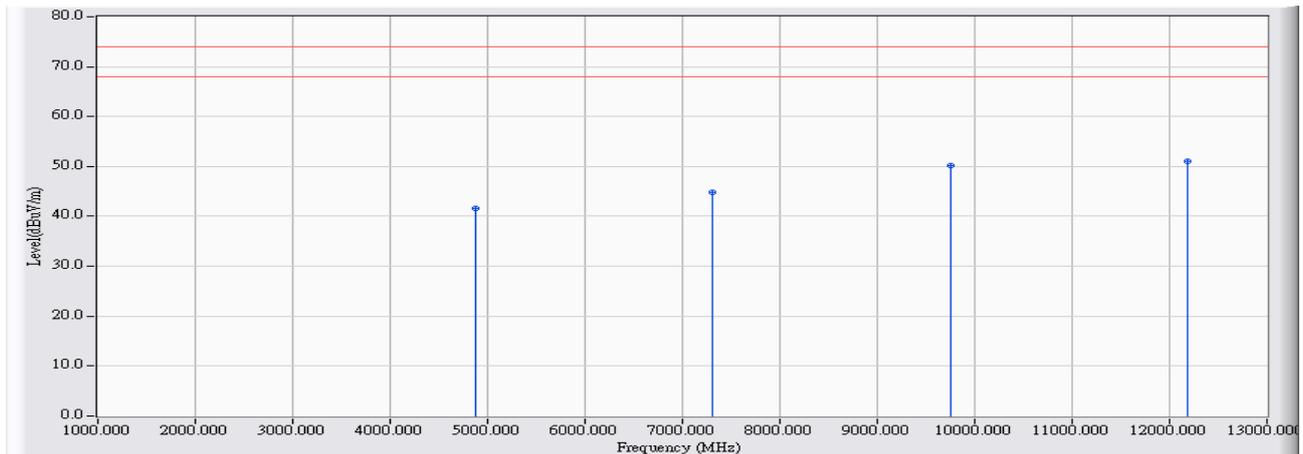


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4844.520	2.557	39.670	42.227	-31.773	74.000	54.00	PEAK
2	7278.450	6.541	37.170	43.711	-30.289	74.000	54.00	PEAK
3	9689.520	11.128	38.530	49.658	-24.342	74.000	54.00	PEAK
4	* 12114.210	14.253	37.140	51.392	-22.608	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2437 MHz

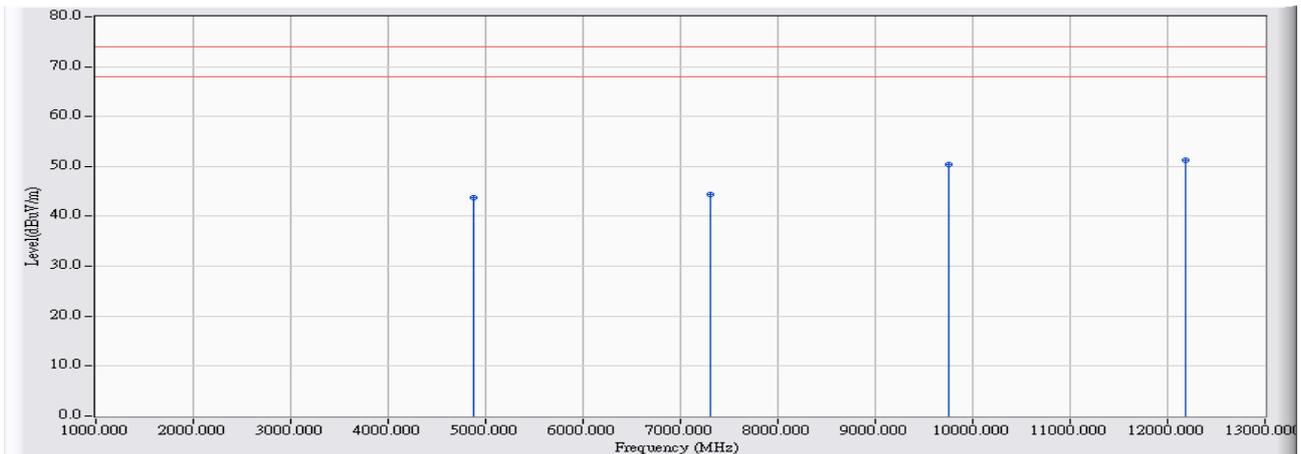


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4877.600	0.540	41.120	41.660	-32.340	74.000	54.00	PEAK
2	7313.000	7.236	37.530	44.766	-29.234	74.000	54.00	PEAK
3	9749.400	11.226	38.880	50.106	-23.894	74.000	54.00	PEAK
4	* 12184.800	15.123	35.940	51.062	-22.938	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2437 MHz

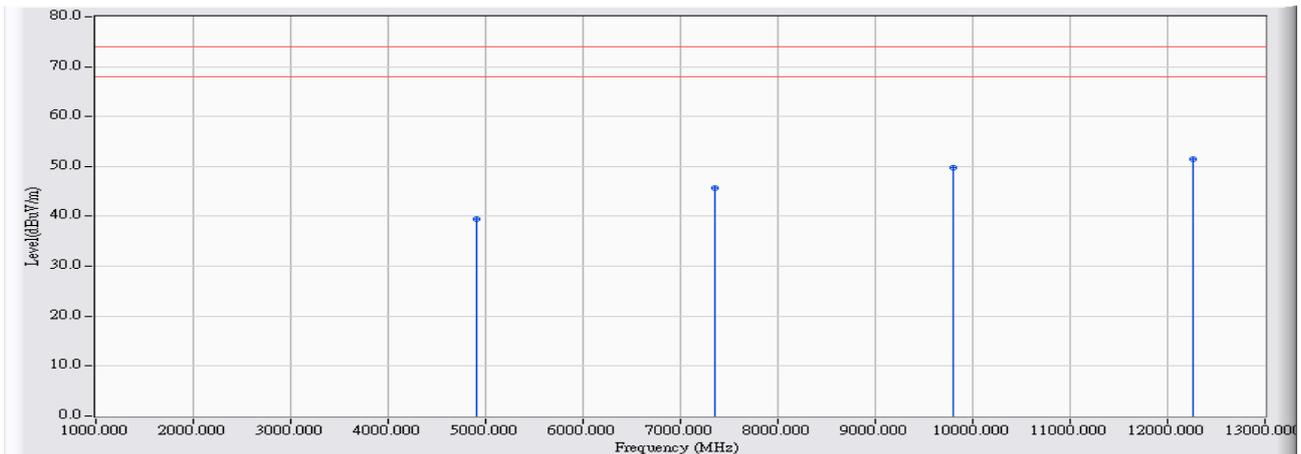


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4877.520	2.579	41.130	43.709	-30.291	74.000	54.00	PEAK
2	7313.000	6.608	37.800	44.408	-29.592	74.000	54.00	PEAK
3	9749.400	11.427	38.990	50.417	-23.583	74.000	54.00	PEAK
4	* 12184.800	14.128	37.230	51.357	-22.643	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz

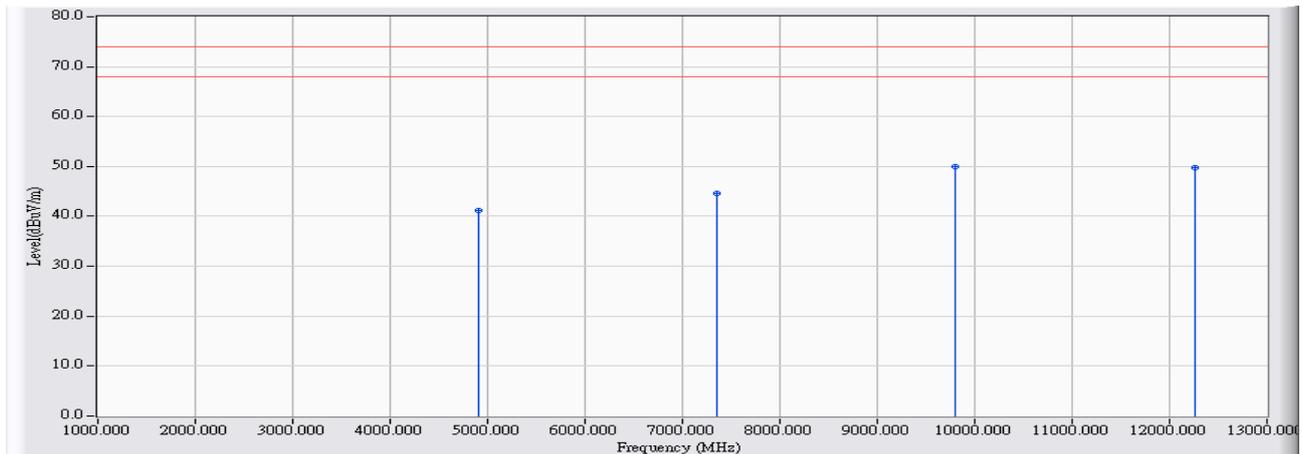


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4910.800	0.636	38.780	39.417	-34.583	74.000	54.00	PEAK
2	7357.800	7.452	38.230	45.682	-28.318	74.000	54.00	PEAK
3	9807.400	11.458	38.390	49.848	-24.152	74.000	54.00	PEAK
4	* 12261.600	14.822	36.760	51.582	-22.418	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	Time : 2010/07/19 - 14:56
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G_AS(2009) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4910.800	2.591	38.600	41.192	-32.808	74.000	54.00	PEAK
2	7357.650	6.695	38.010	44.705	-29.295	74.000	54.00	PEAK
3	* 9807.260	11.715	38.190	49.905	-24.095	74.000	54.00	PEAK
4	12261.420	13.982	35.700	49.681	-24.319	74.000	54.00	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

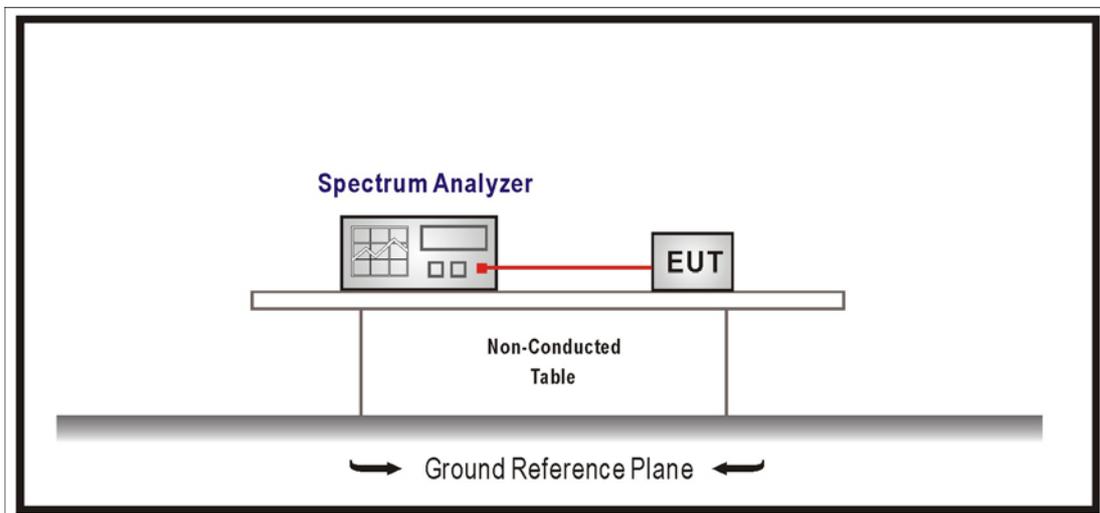
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2011/02/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

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

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

5.6. Uncertainty

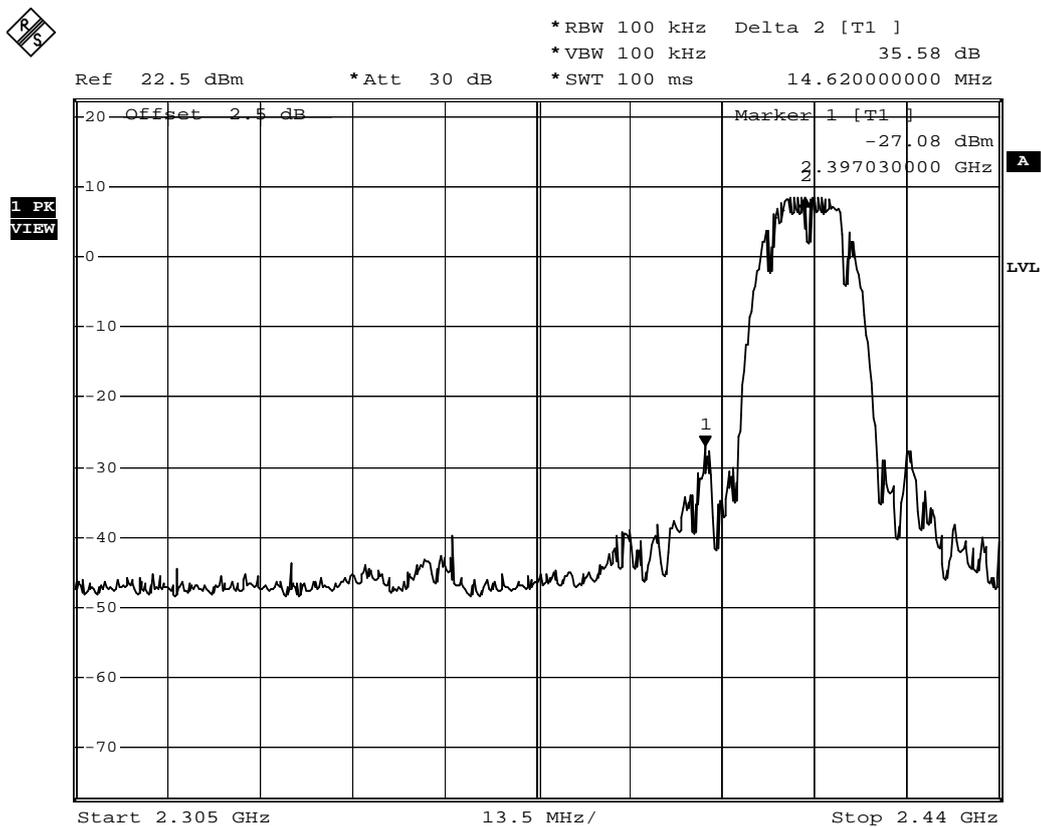
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

Product	3G MOBILE Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11b, Antenna Gain: 2.6dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.58	≥20	Pass
11	2462	43.88	≥20	Pass

Channel 01 (2412MHz)

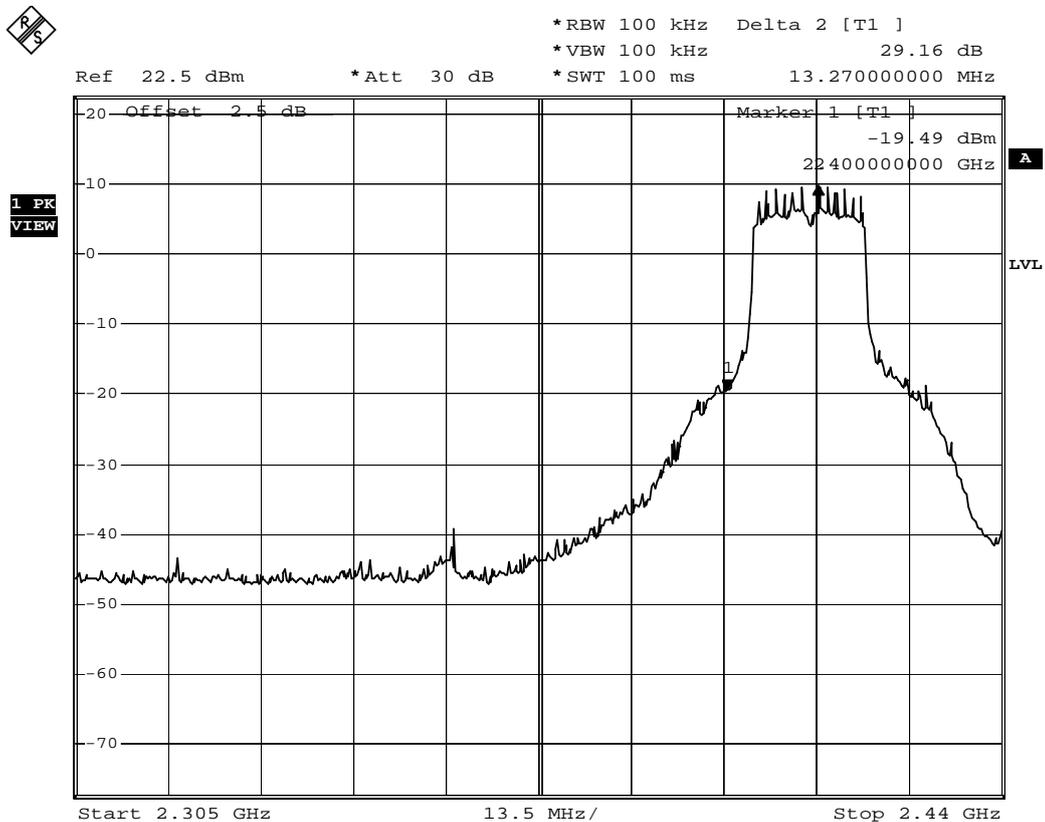


Date: 9.JUL.2010 15:19:42

Product	3G MOBILE Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11g, Antenna Gain: 2.6dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	29.16	≥20	Pass
11	2462	41.83	≥20	Pass

Channel 01 (2412MHz)



Date: 9.JUL.2010 15:22:22

Channel 11 (2462MHz)

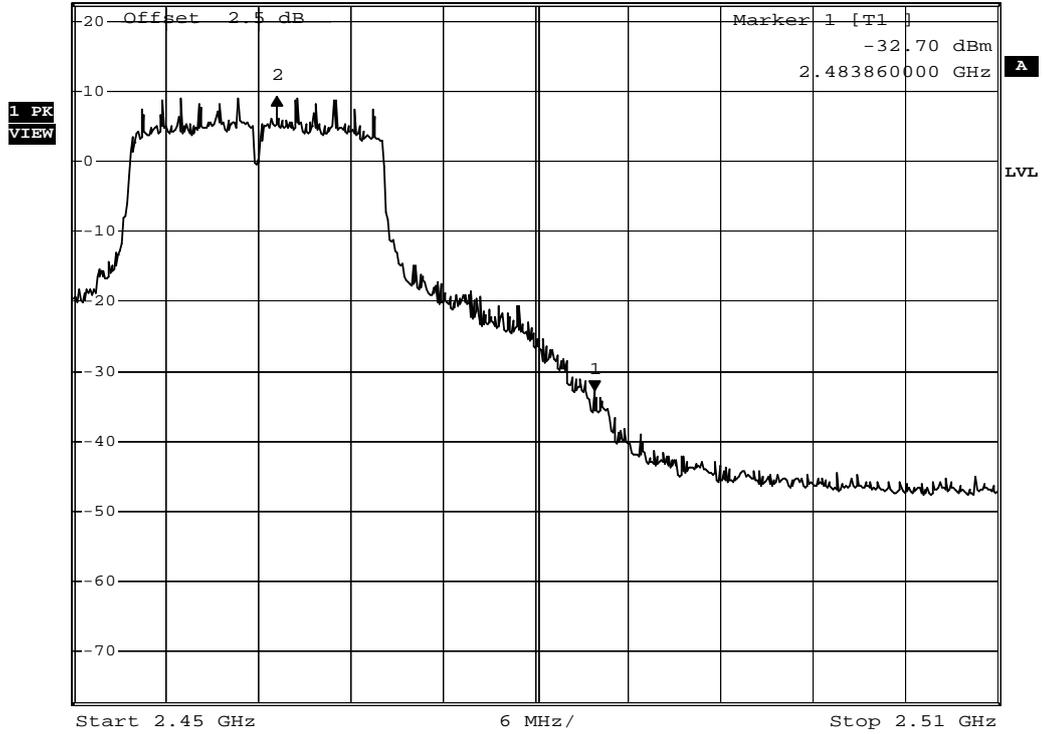


*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz 41.83 dB
 *SWT 100 ms -20.66000000 MHz

Ref 22.5 dBm

*Att 30 dB

-20.66000000 MHz

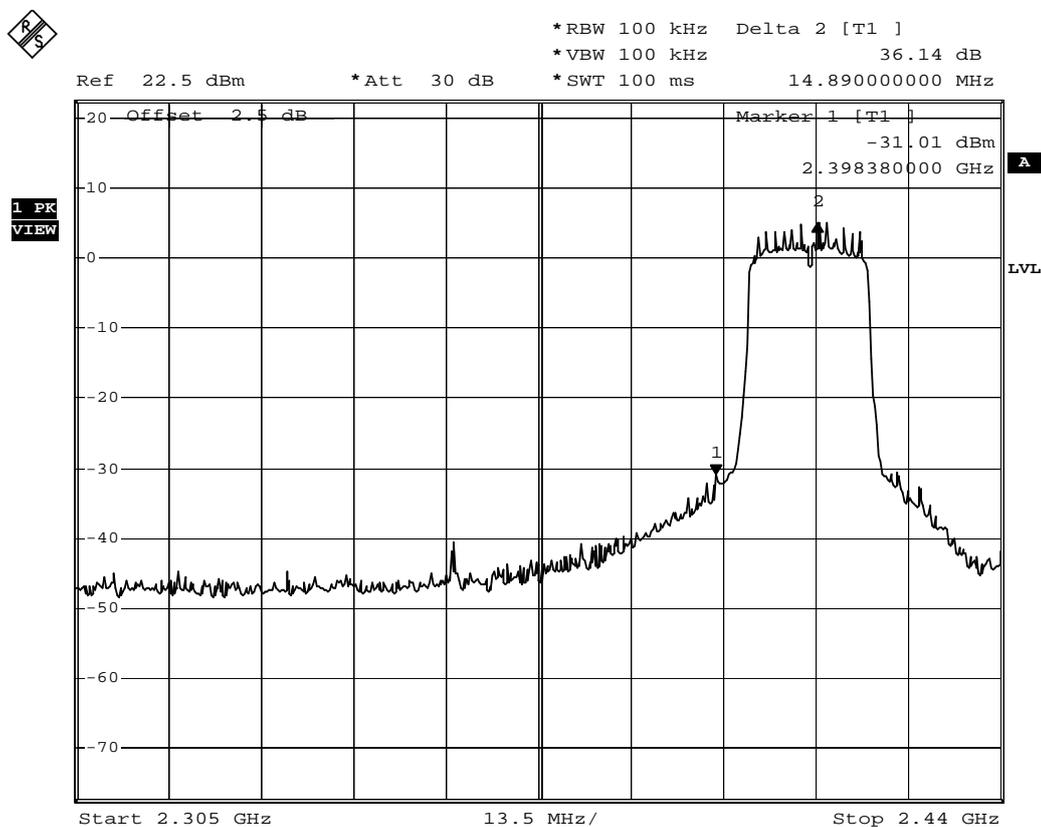


Date: 9.JUL.2010 15:40:30

Product	3G MOBILE Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11n (20MHz), Antenna Gain: 2.6dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.14	≥20	Pass
11	2462	40.49	≥20	Pass

Channel 1 (2412MHz)



Date: 9.JUL.2010 15:23:38

Channel 11 (2462MHz)



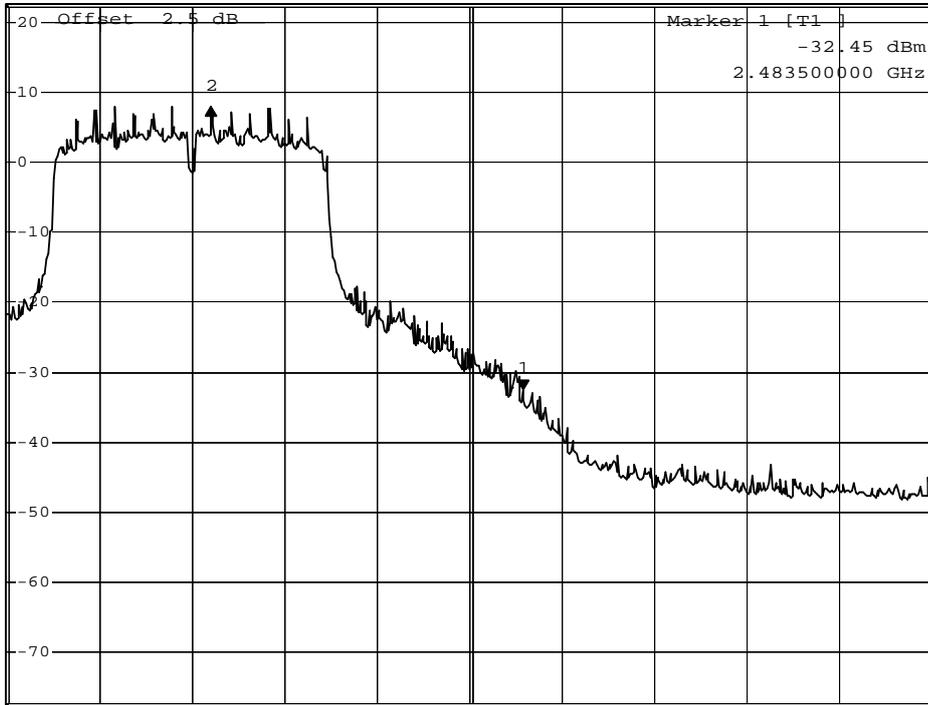
*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz 40.49 dB
*SWT 100 ms -20.30000000 MHz

Ref 22.5 dBm

*Att 30 dB

-20.30000000 MHz

1 PK
VIEW



Start 2.45 GHz

6 MHz/

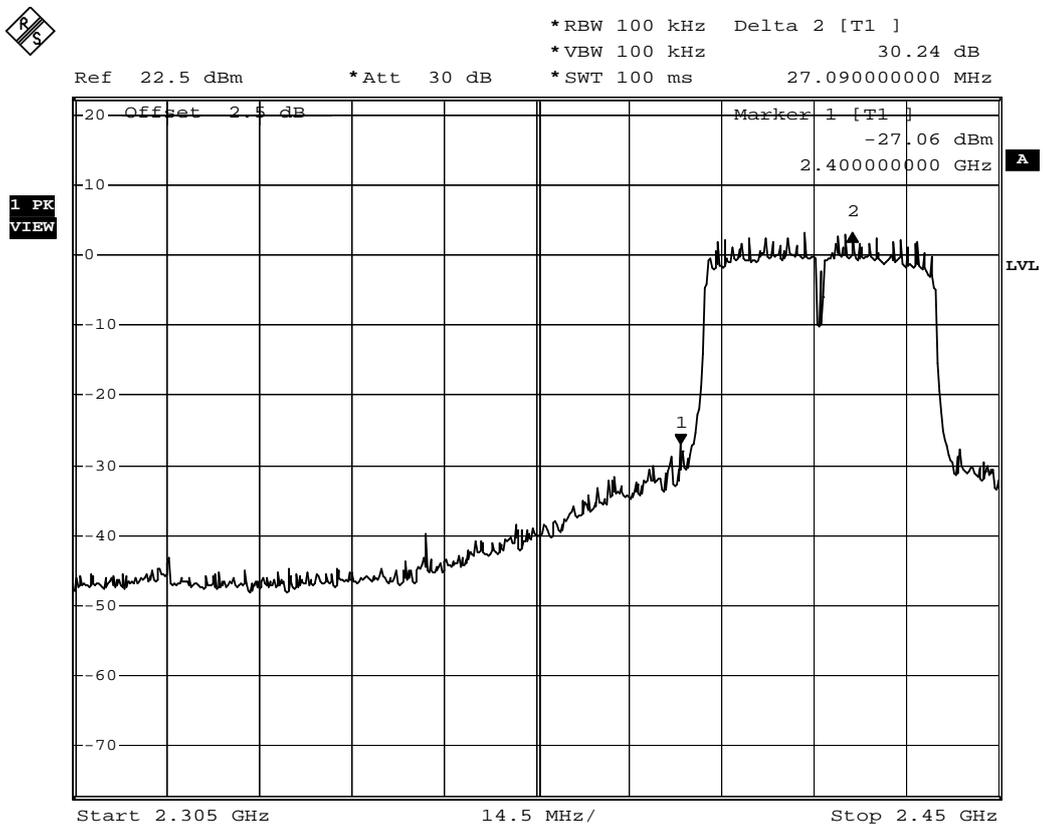
Stop 2.51 GHz

Date: 9.JUL.2010 15:42:02

Product	3G MOBILE Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

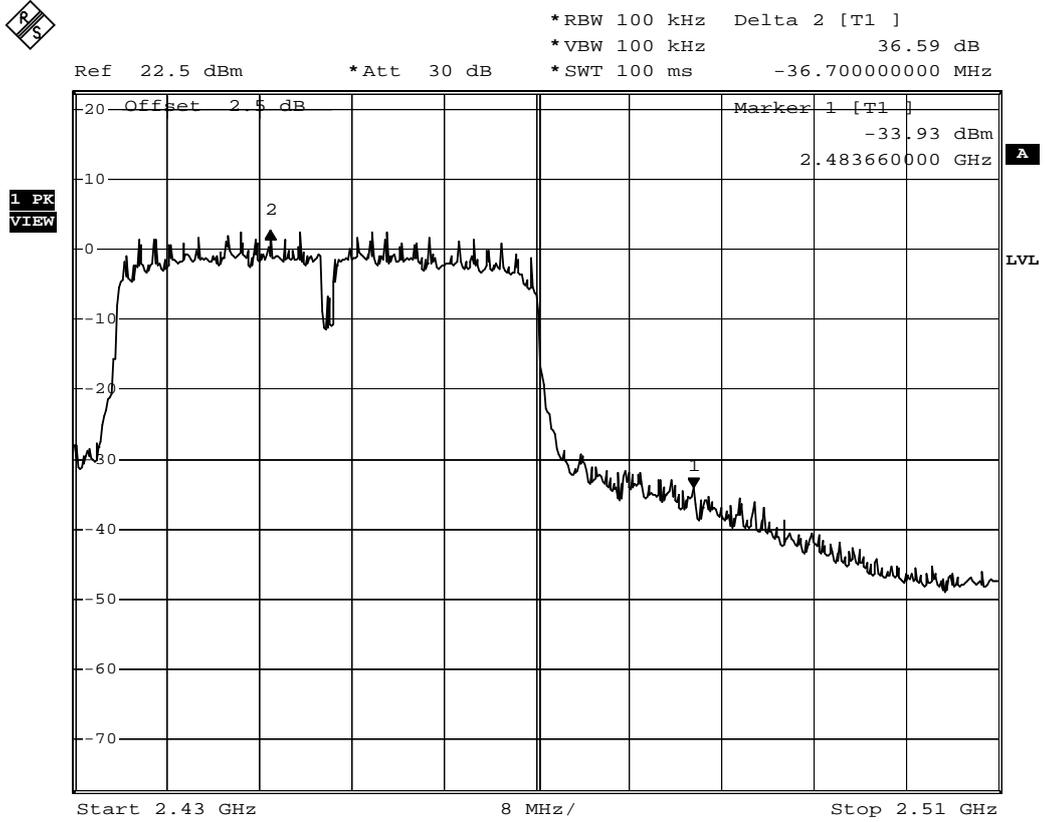
IEEE 802.11n (40MHz), Antenna Gain: 2.6dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.24	≥20	Pass
9	2452	36.59	≥20	Pass

Channel 3 (2422MHz)



Date: 9.JUL.2010 15:24:59

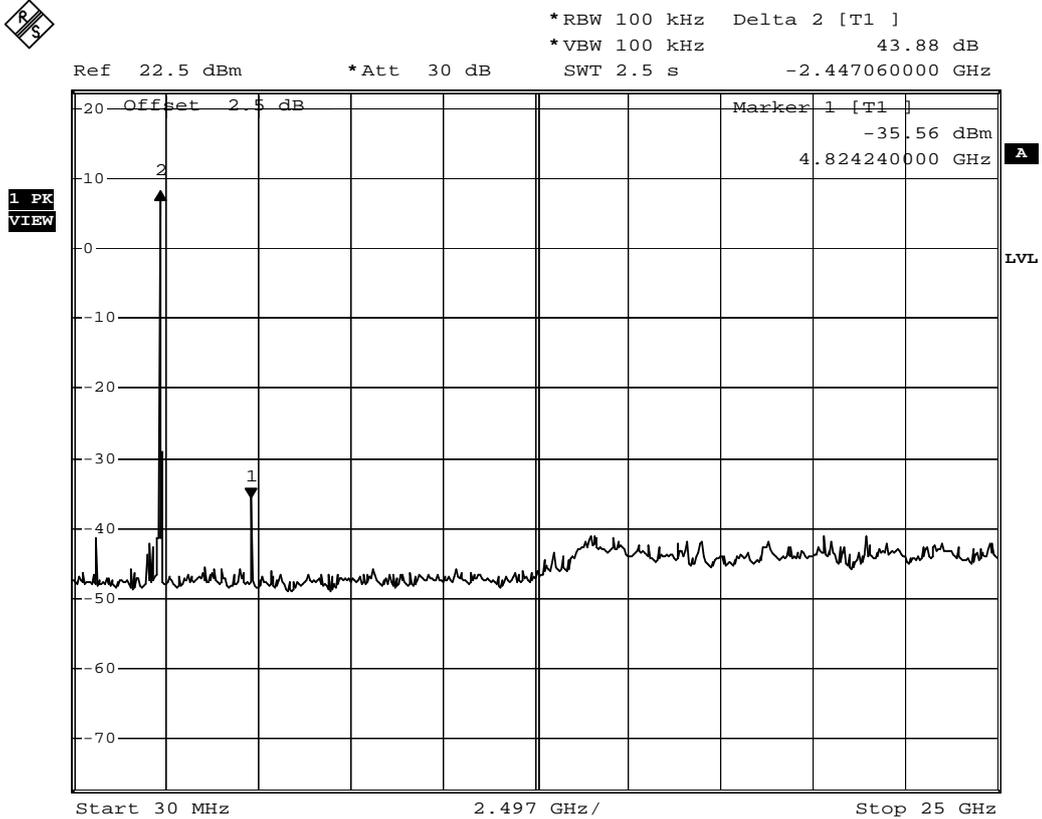
Channel 9 (2452MHz)



Date: 9.JUL.2010 15:43:57

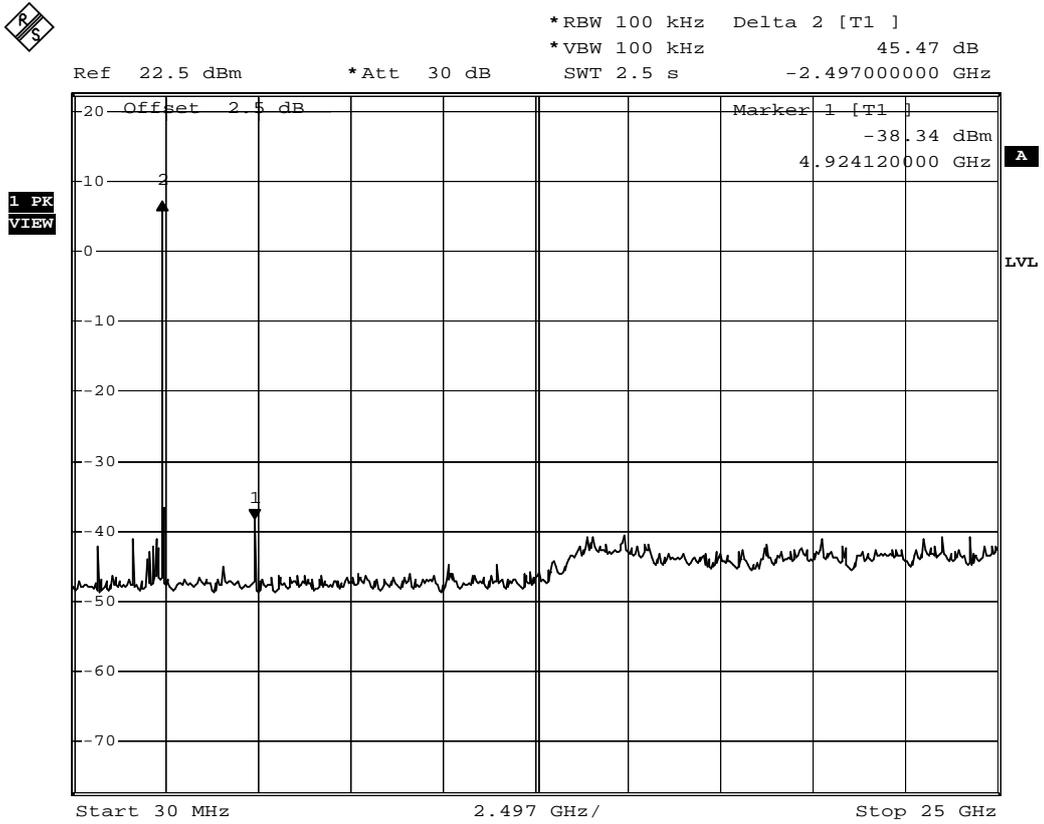
Product	3G MOBILE Wireless Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

2412MHz (30MHz-25GHz)- 802.11b



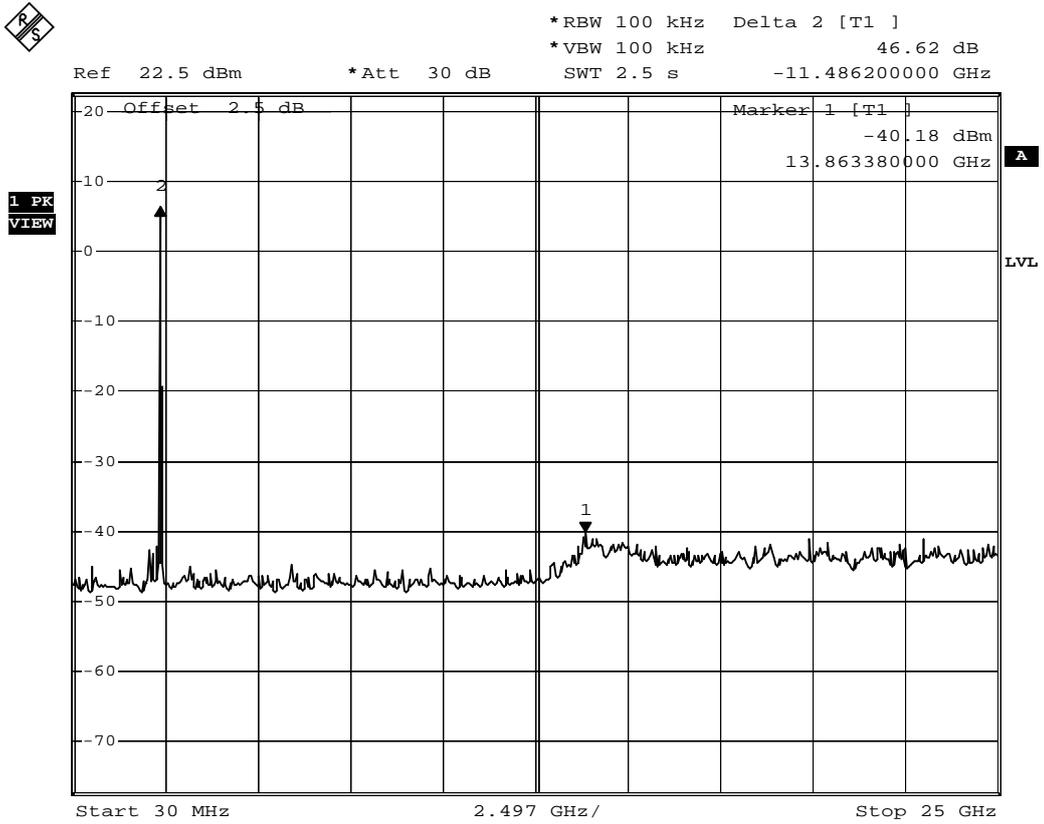
Date: 9.JUL.2010 15:46:16

2462MHz (30MHz-25GHz)- 802.11b



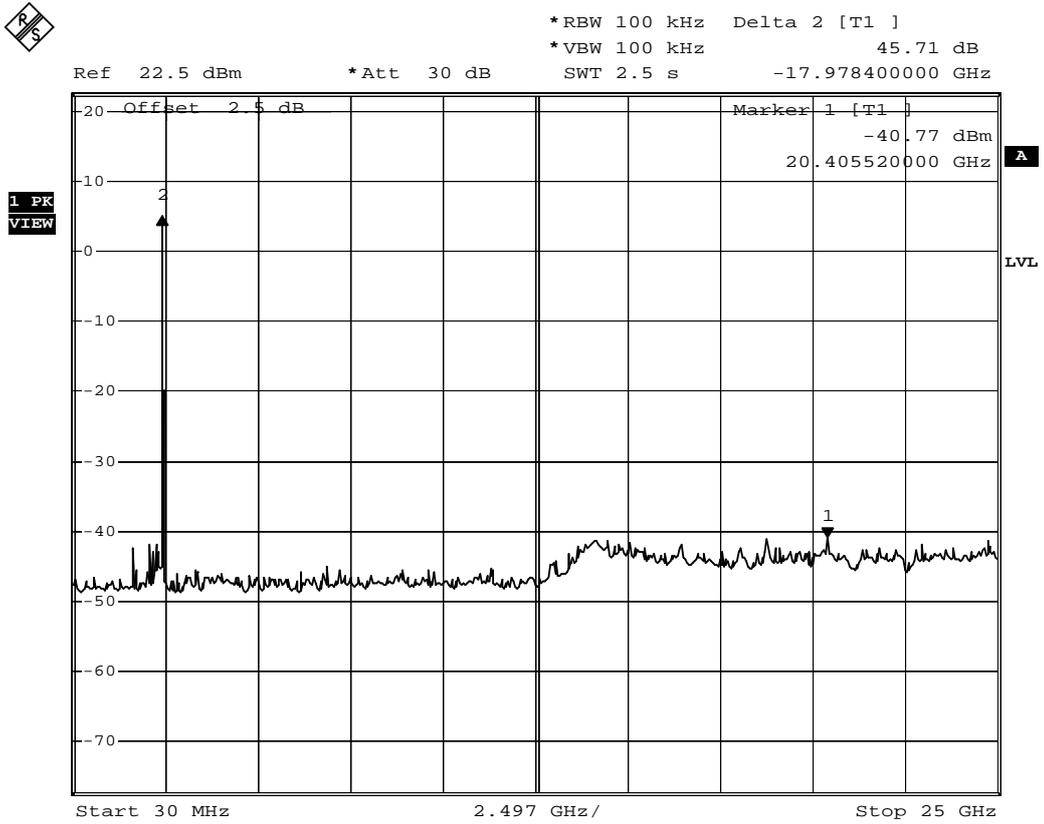
Date: 9.JUL.2010 15:48:07

2412MHz (30MHz-25GHz)- 802.11g



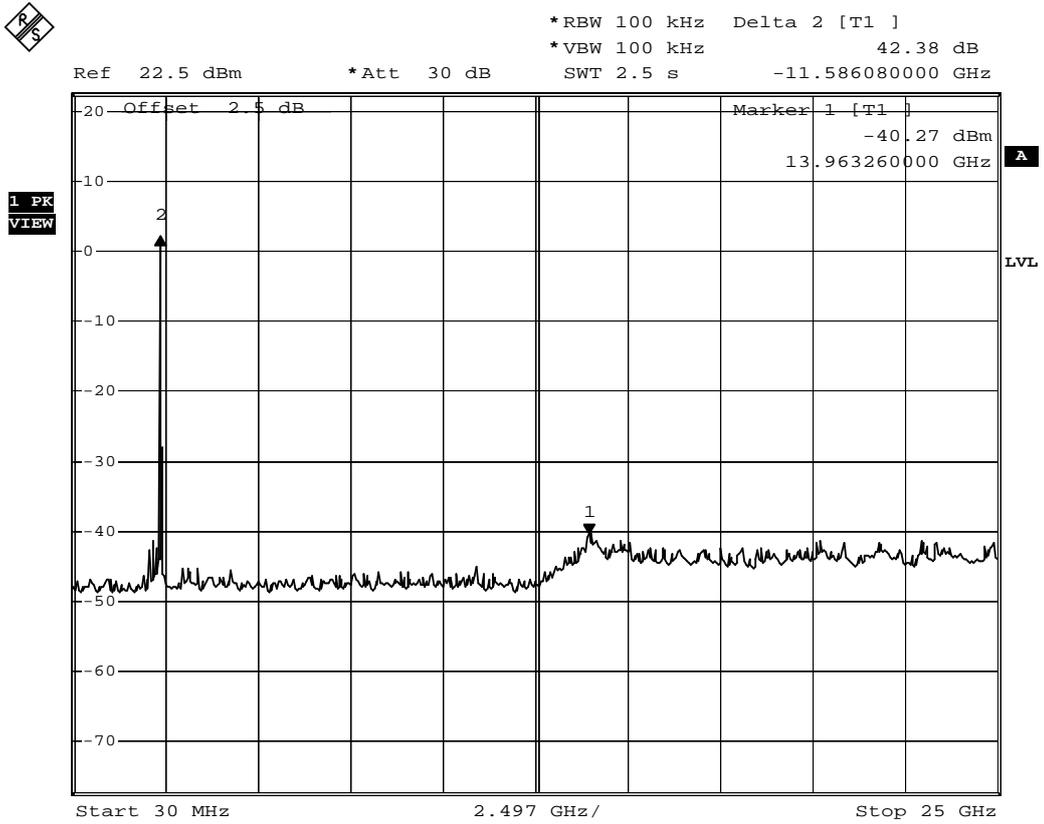
Date: 9.JUL.2010 15:57:22

2462MHz (30MHz-25GHz)- 802.11g



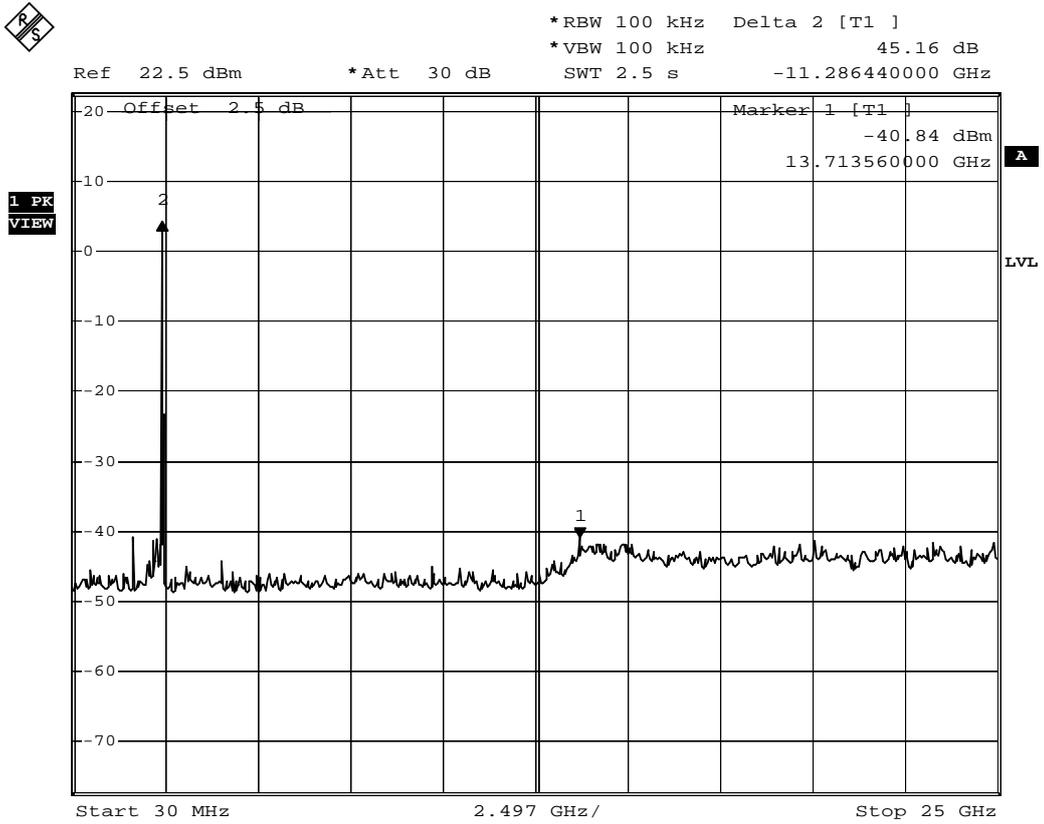
Date: 9.JUL.2010 15:59:44

2412MHz (30MHz-25GHz)- 802.11n(20MHz)



Date: 9.JUL.2010 16:04:48

2462MHz (30MHz-25GHz)- 802.11n(20MHz)



Date: 9.JUL.2010 16:05:58

2422MHz (30MHz-25GHz)- 802.11n(40MHz)

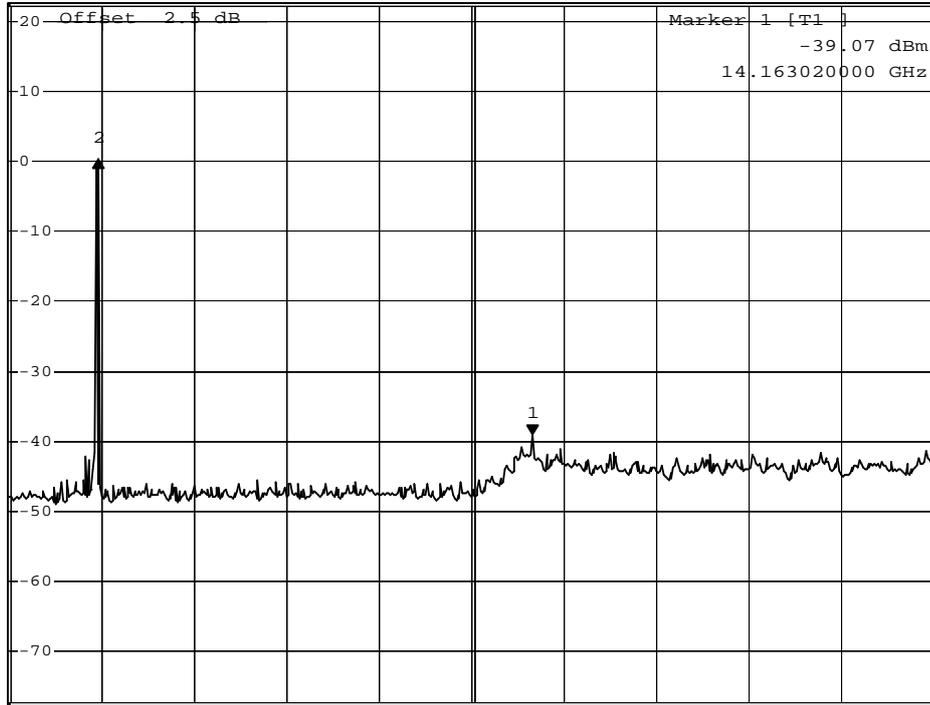


*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz 39.42 dB
 SWT 2.5 s -11.735900000 GHz

Ref 22.5 dBm

*Att 30 dB

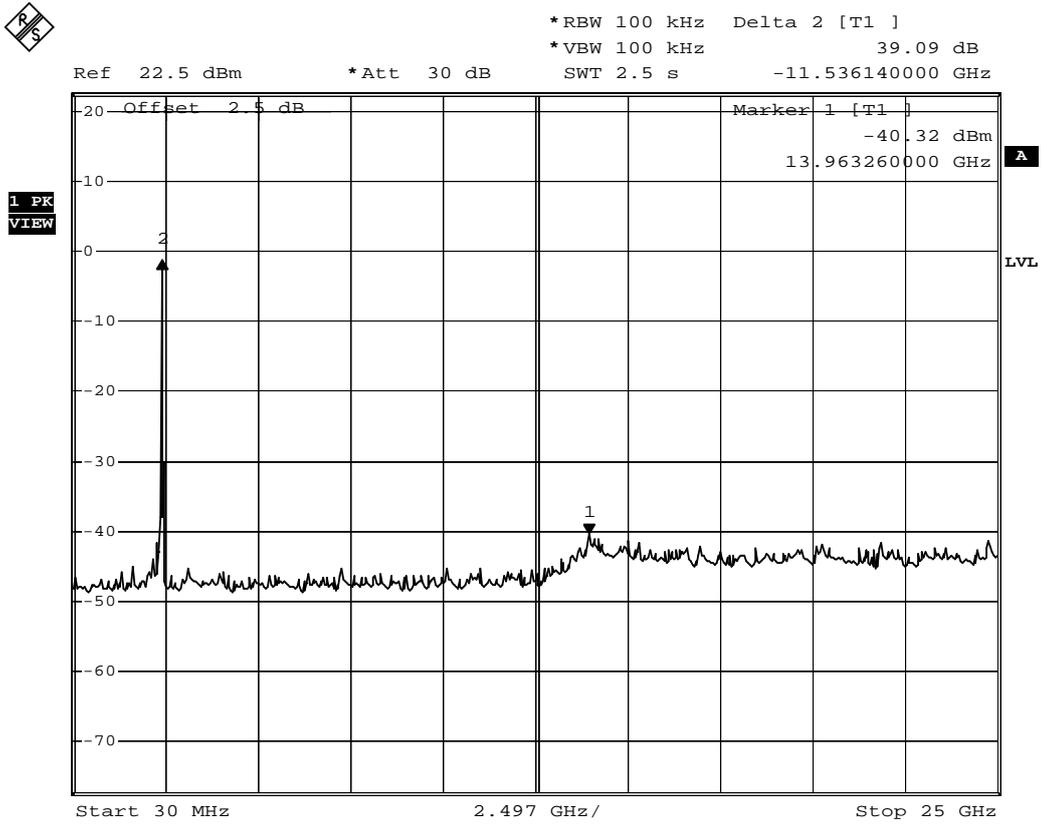
1 PK
VIEW



Start 30 MHz 2.497 GHz/ Stop 25 GHz

Date: 9.JUL.2010 16:08:05

2452MHz (30MHz-25GHz)- 802.11n(40MHz)



Date: 9.JUL.2010 16:09:21

6. Radiated Emission Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

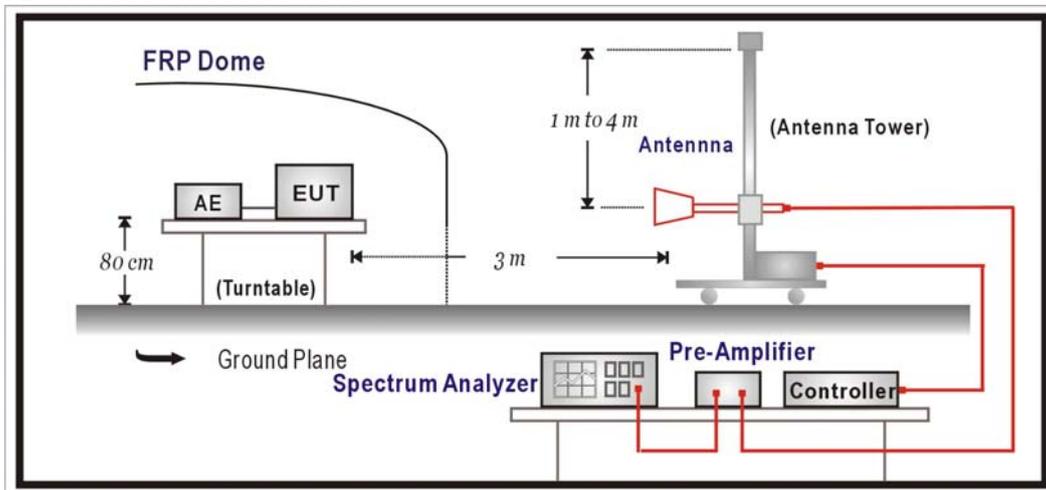
Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Horn Antenna	Schwarzback	BBHA 9120D	743	2011/03/14
Spectrum Analyzer	Agilent	E4440A	MY46187335	2011/01/14
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2011/04/07

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

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

6.4. Test Procedure

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

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 EUT was positioned such that the distance from antenna to the EUT was 3 meters.

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: 2003 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

6.6. Uncertainty

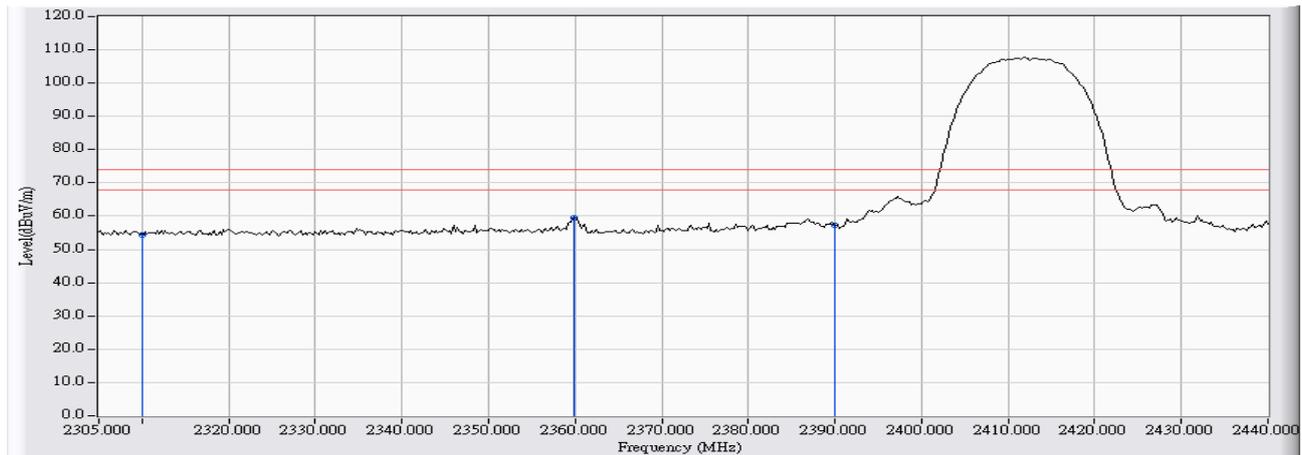
The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2010/07/08 - 19:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

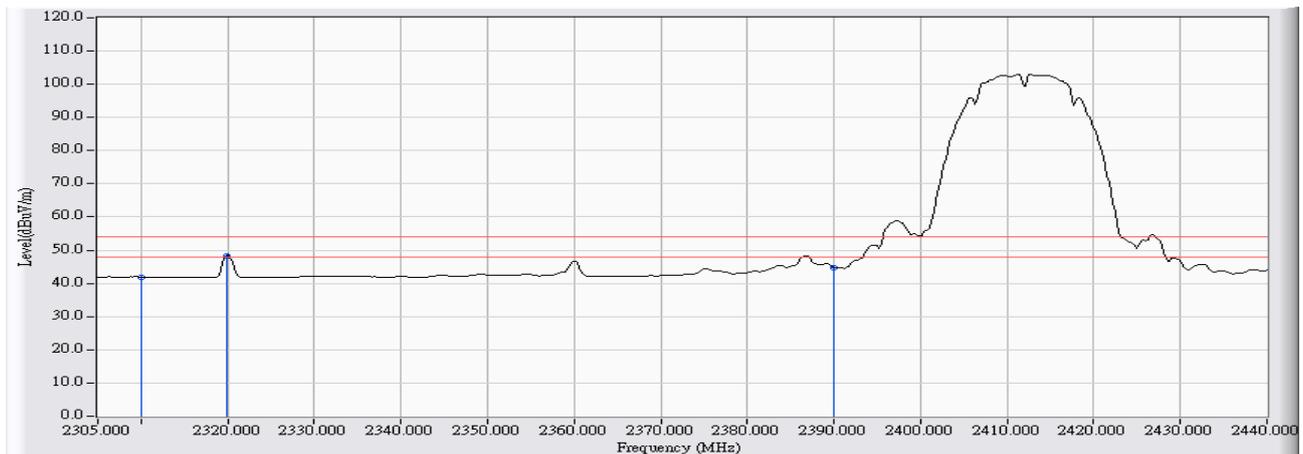


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	27.331	54.485	-19.515	74.000	PEAK
2	* 2359.900	27.394	32.002	59.396	-14.604	74.000	PEAK
3	2390.000	27.549	29.663	57.212	-16.788	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 19:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

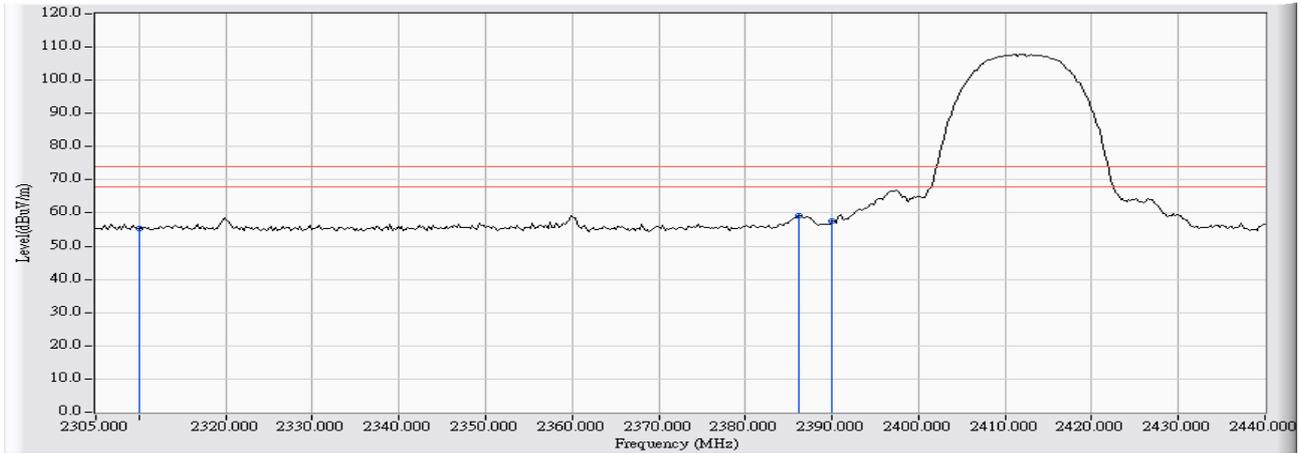


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	14.788	41.942	-12.058	54.000	AVERAGE
2	* 2319.850	27.208	21.160	48.367	-5.633	54.000	AVERAGE
3	2390.000	27.549	17.292	44.841	-9.159	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 19:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

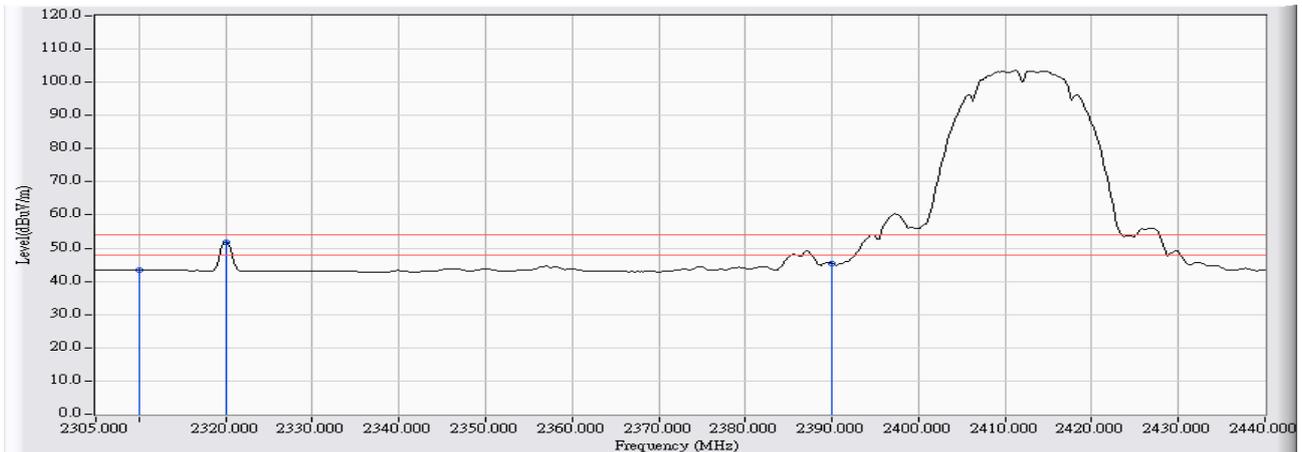


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	27.515	55.295	-18.705	74.000	PEAK
2	* 2386.225	27.390	31.956	59.346	-14.654	74.000	PEAK
3	2390.000	27.371	30.125	57.495	-16.505	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 19:52
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2412 MHz

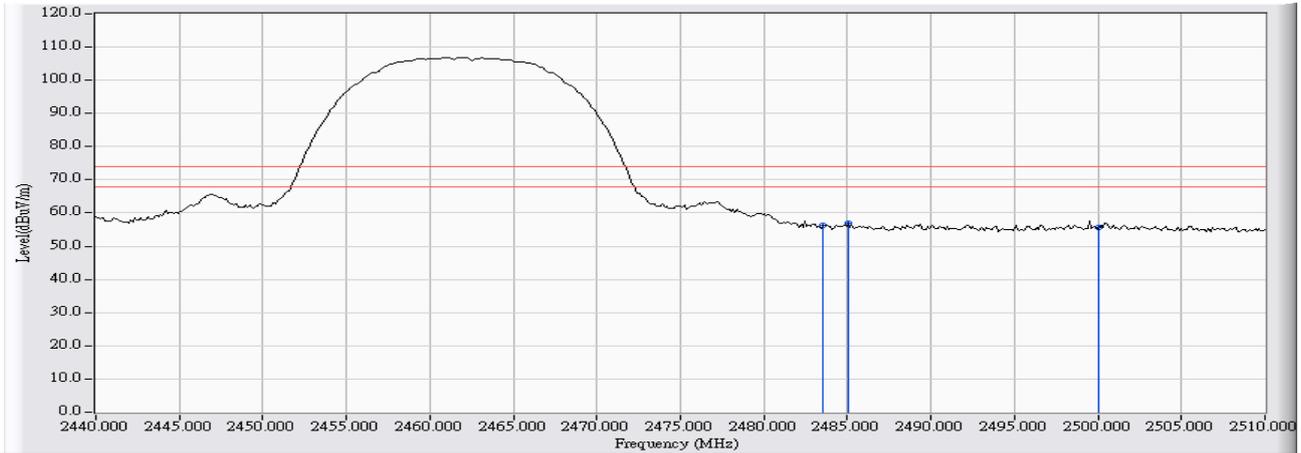


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	15.772	43.552	-10.448	54.000	AVERAGE
2	* 2320.075	27.728	24.074	51.802	-2.198	54.000	AVERAGE
3	2390.000	27.371	18.139	45.509	-8.491	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/13 - 09:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

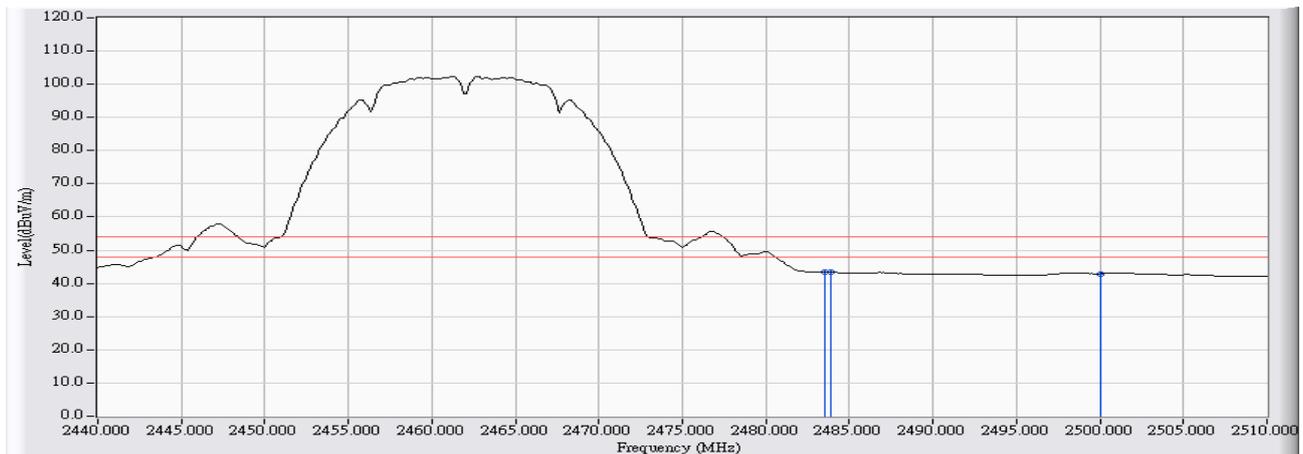


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	28.018	28.182	56.200	-17.800	74.000	PEAK
2	* 2485.033	28.026	28.964	56.990	-17.010	74.000	PEAK
3	2500.000	28.097	27.458	55.555	-18.445	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/13 - 09:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

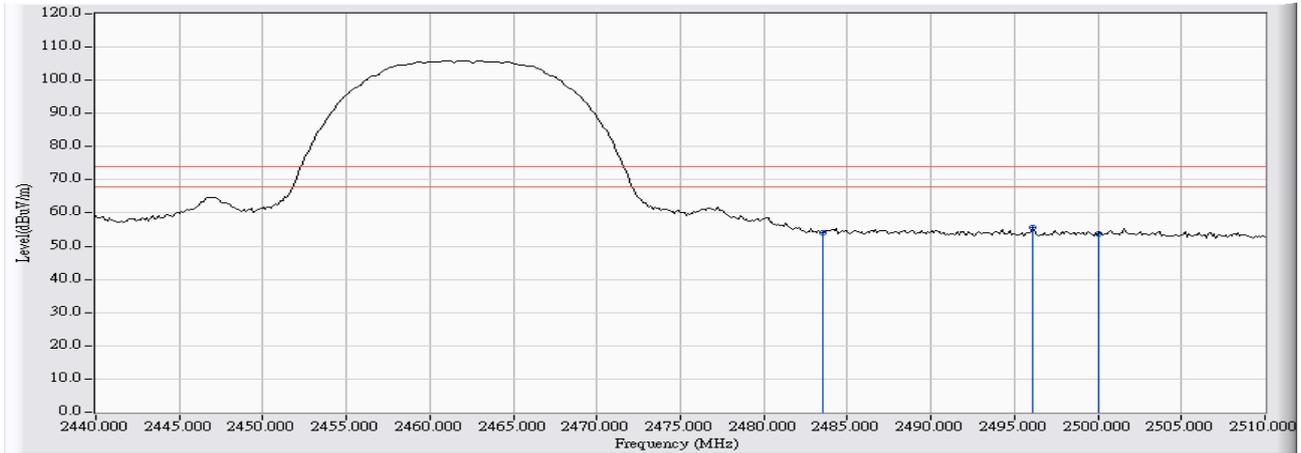


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	28.018	15.405	43.423	-10.577	54.000	AVERAGE
2	* 2483.867	28.021	15.564	43.584	-10.416	54.000	AVERAGE
3	2500.000	28.097	14.847	42.944	-11.056	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/13 - 09:25
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

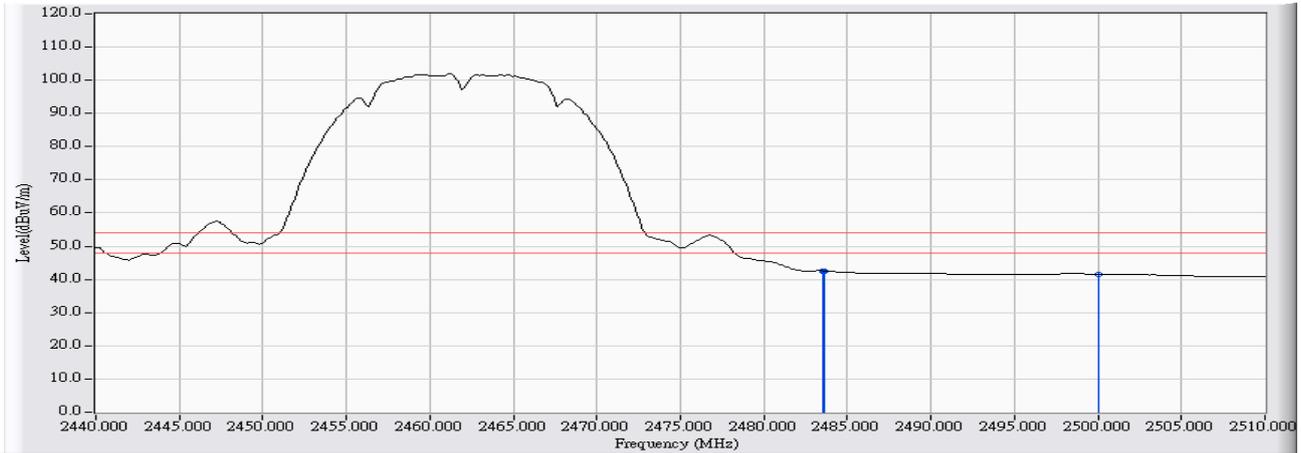


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	26.896	27.243	54.140	-19.860	74.000	PEAK
2	* 2496.117	26.824	28.778	55.602	-18.398	74.000	PEAK
3	2500.000	26.834	26.977	53.811	-20.189	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/13 - 09:26
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11b_2462 MHz

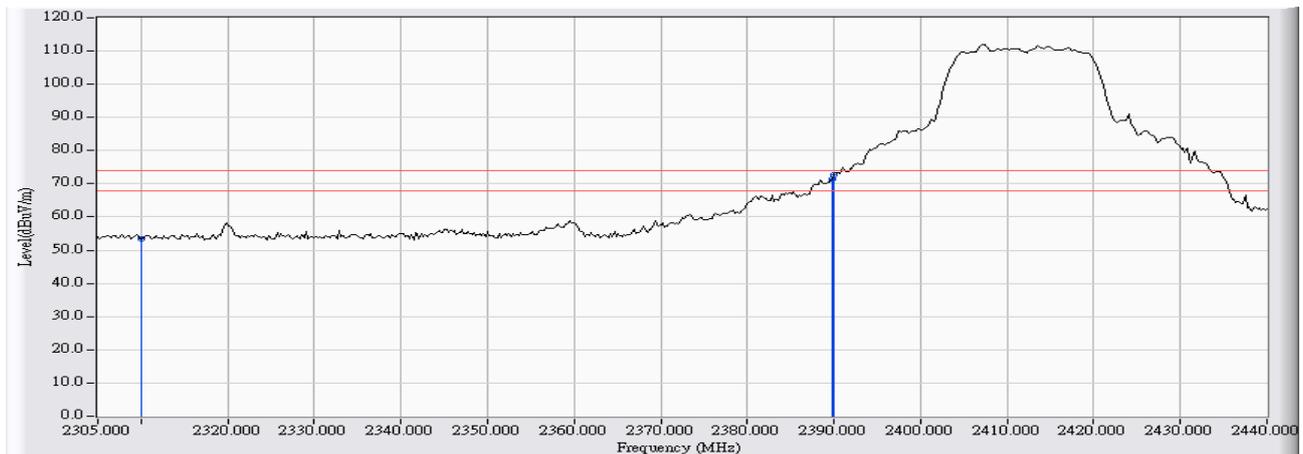


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	15.676	42.573	-11.427	54.000	AVERAGE
2		2483.633	26.895	15.670	42.566	-11.434	54.000	AVERAGE
3		2500.000	26.834	14.723	41.557	-12.443	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 20:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

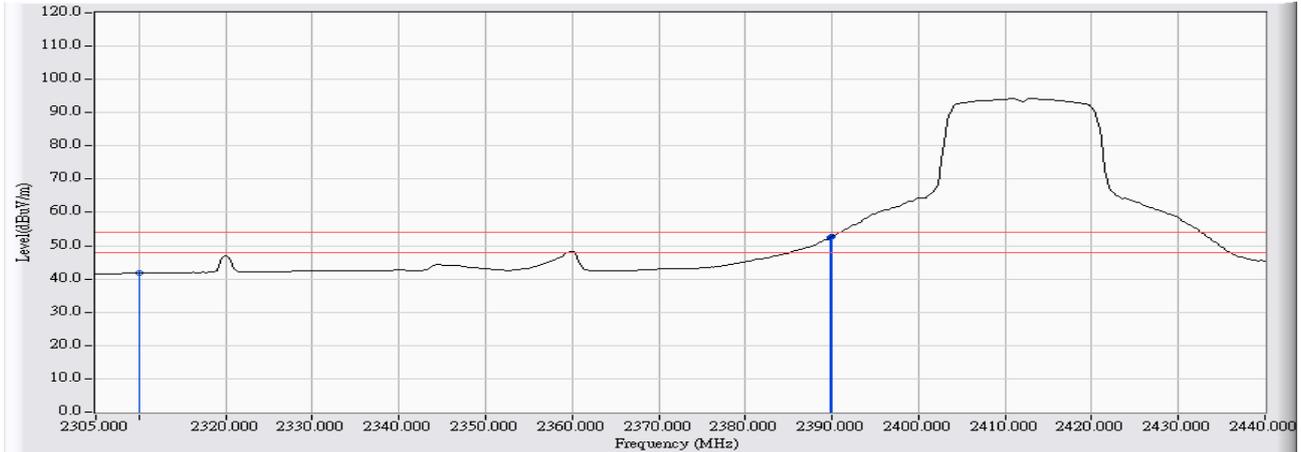


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	26.186	53.340	-20.660	74.000	PEAK
2	2389.825	27.547	43.962	71.510	-2.490	74.000	PEAK
3	* 2390.000	27.549	45.265	72.814	-1.186	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

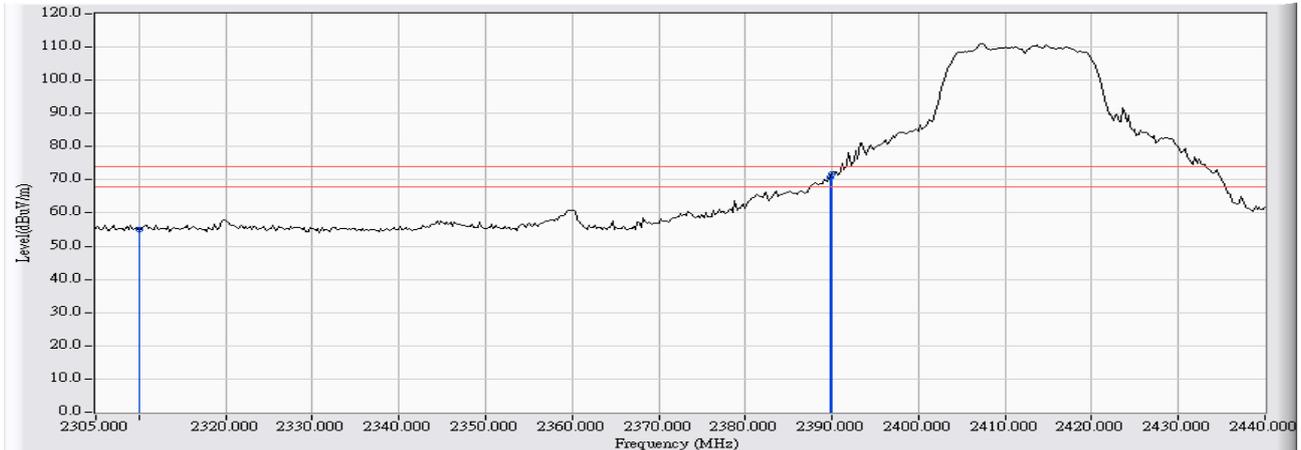


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	14.629	41.783	-12.217	54.000	AVERAGE
2	2389.825	27.547	24.905	52.453	-1.547	54.000	AVERAGE
3	* 2390.000	27.549	25.174	52.723	-1.277	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 20:10
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

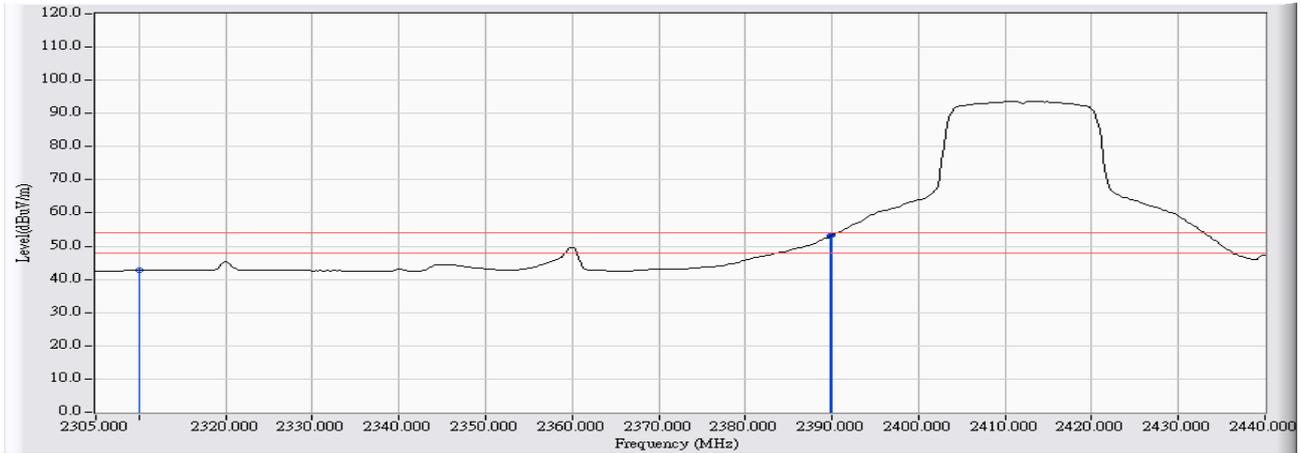


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	27.093	54.873	-19.127	74.000	PEAK
2	2389.825	27.371	43.377	70.748	-3.252	74.000	PEAK
3	* 2390.000	27.371	44.349	71.719	-2.281	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 20:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2412 MHz

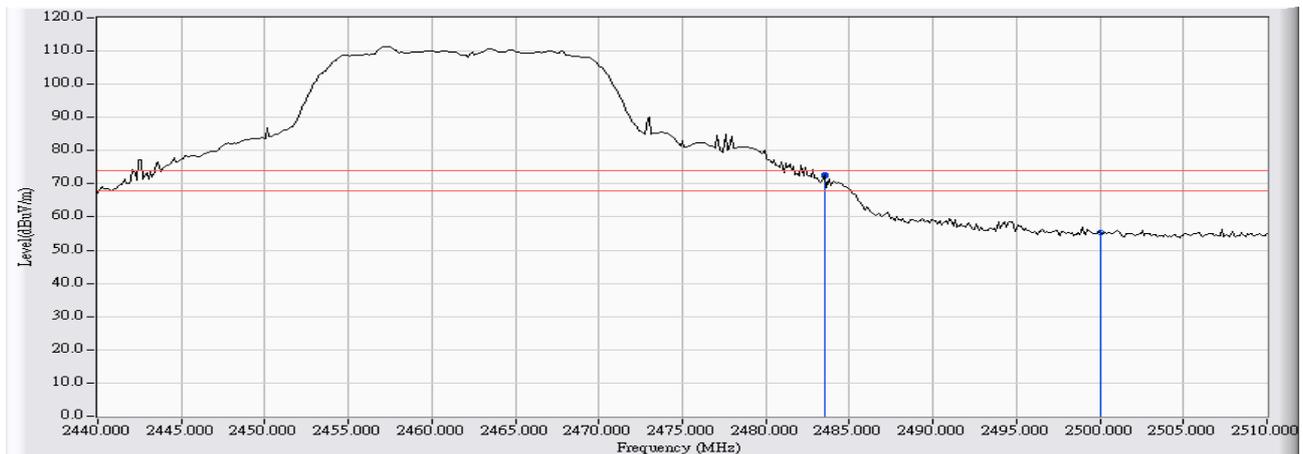


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	14.931	42.711	-11.289	54.000	AVERAGE
2	2389.825	27.371	25.711	53.082	-0.918	54.000	AVERAGE
3	* 2390.000	27.371	25.924	53.294	-0.706	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 18:04
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

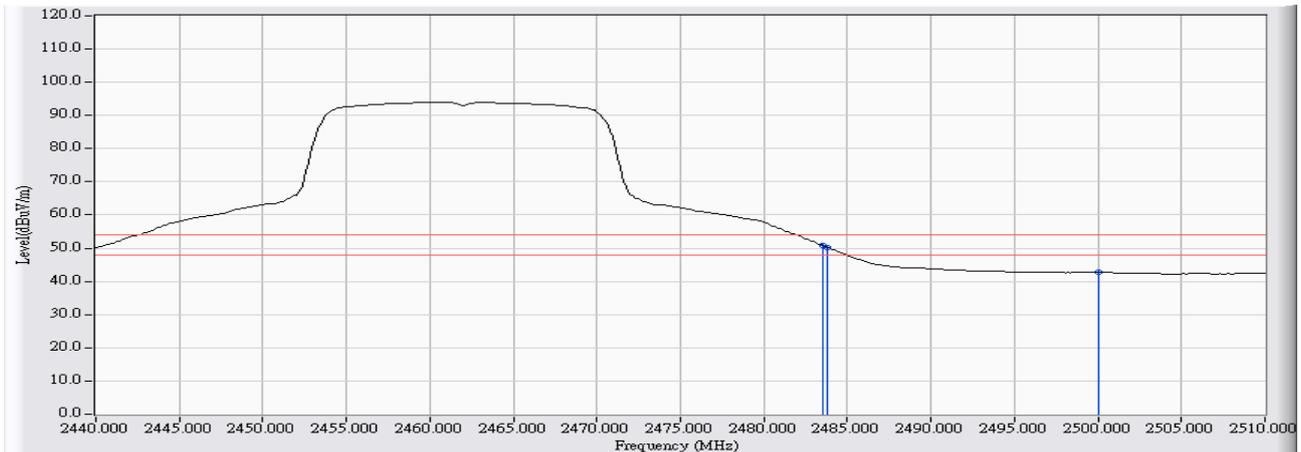


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	28.018	44.387	72.405	-1.595	74.000	PEAK
2	* 2483.517	28.018	44.556	72.575	-1.425	74.000	PEAK
3	2500.000	28.097	27.330	55.427	-18.573	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 18:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

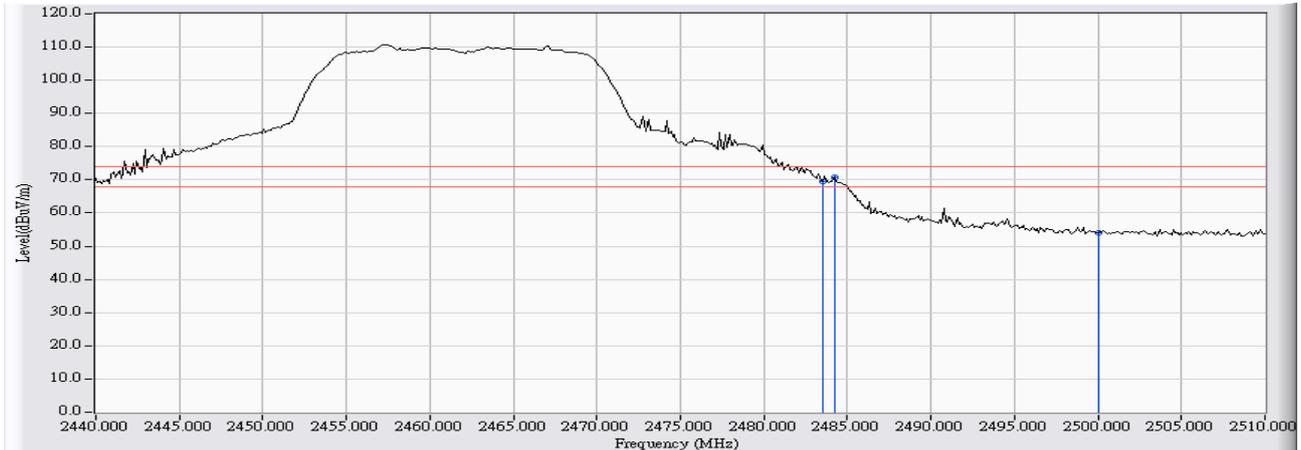


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.018	22.816	50.834	-3.166	54.000	AVERAGE
2		2483.750	28.020	22.326	50.346	-3.654	54.000	AVERAGE
3		2500.000	28.097	14.788	42.885	-11.115	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 18:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

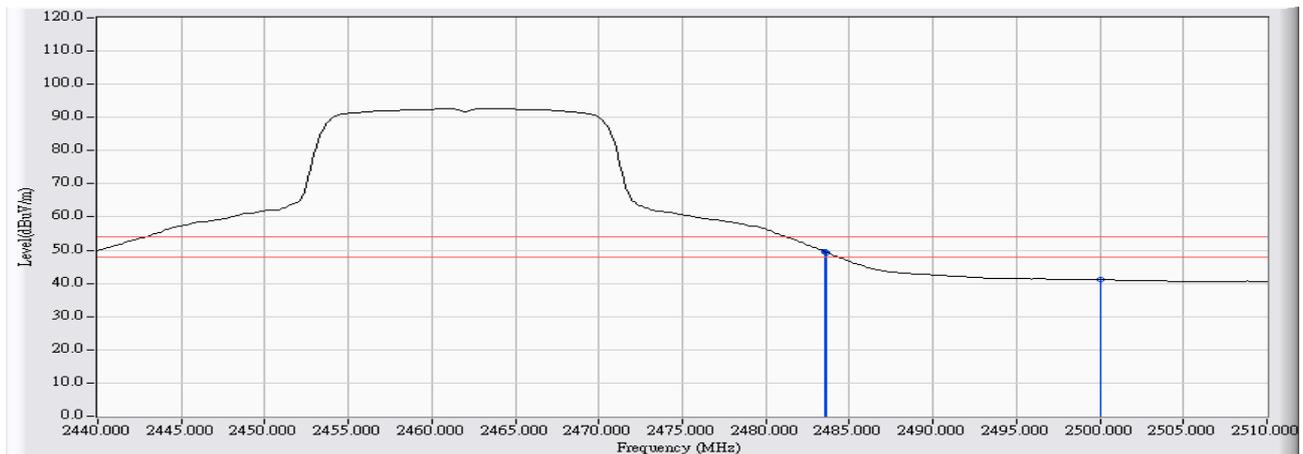


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	26.896	42.492	69.389	-4.611	74.000	PEAK
2	* 2484.217	26.892	44.035	70.927	-3.073	74.000	PEAK
3	2500.000	26.834	27.113	53.947	-20.053	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 18:09
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11g_2462 MHz

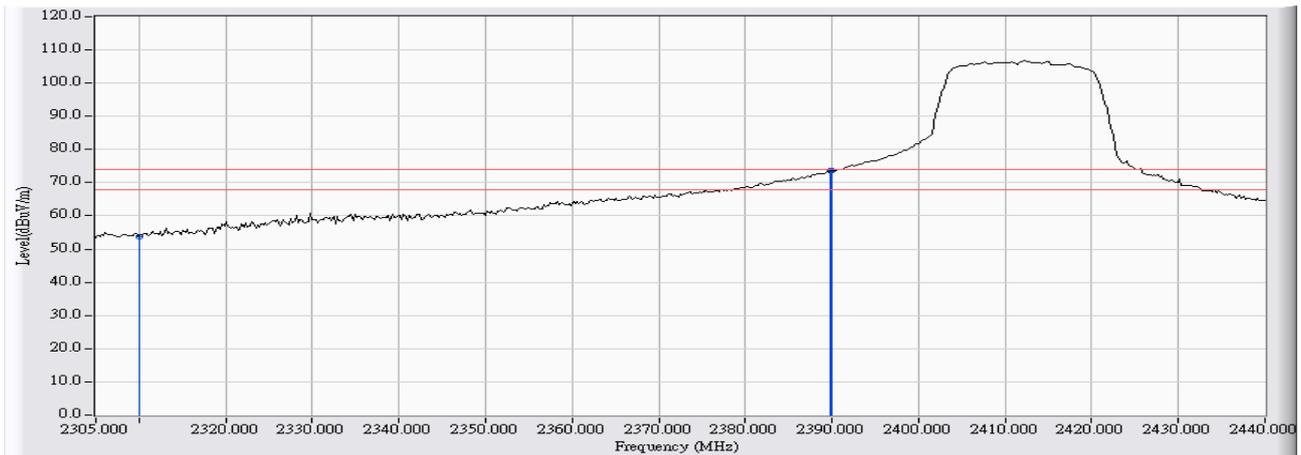


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	22.735	49.632	-4.368	54.000	AVERAGE
2		2483.633	26.895	22.462	49.358	-4.642	54.000	AVERAGE
3		2500.000	26.834	14.342	41.176	-12.824	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

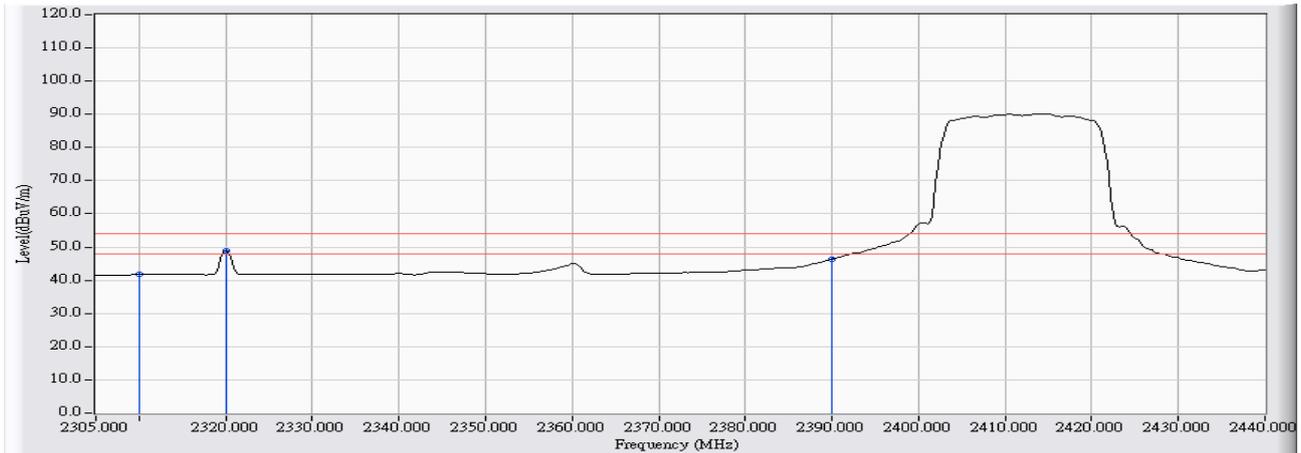


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	26.638	53.792	-20.208	74.000	PEAK
2	* 2389.825	27.547	46.022	73.570	-0.430	74.000	PEAK
3	2390.000	27.549	45.997	73.546	-0.454	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 20:04
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

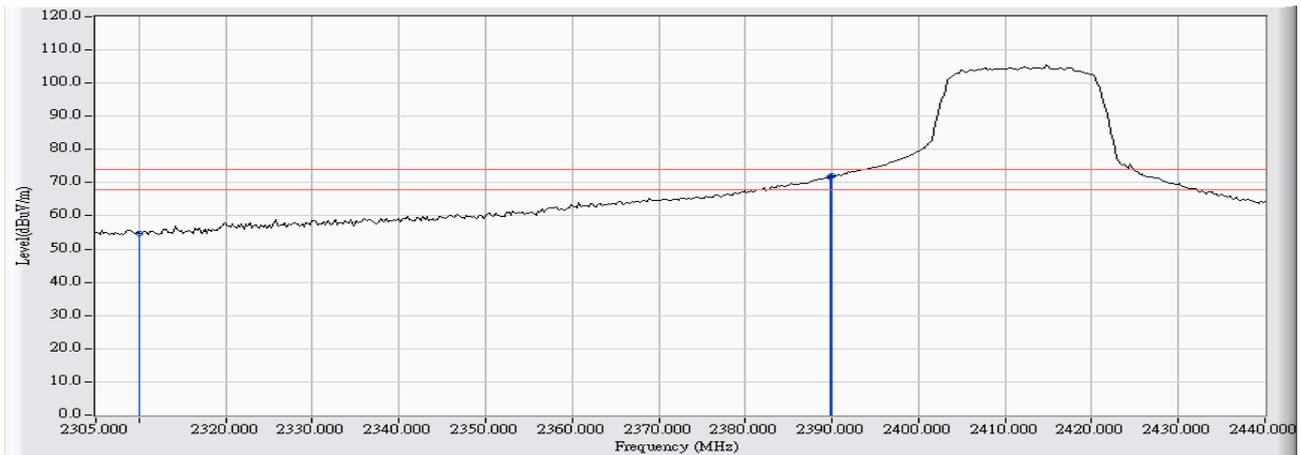


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	14.528	41.682	-12.318	54.000	AVERAGE
2	* 2320.075	27.209	21.604	48.813	-5.187	54.000	AVERAGE
3	2390.000	27.549	18.715	46.264	-7.736	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:18
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

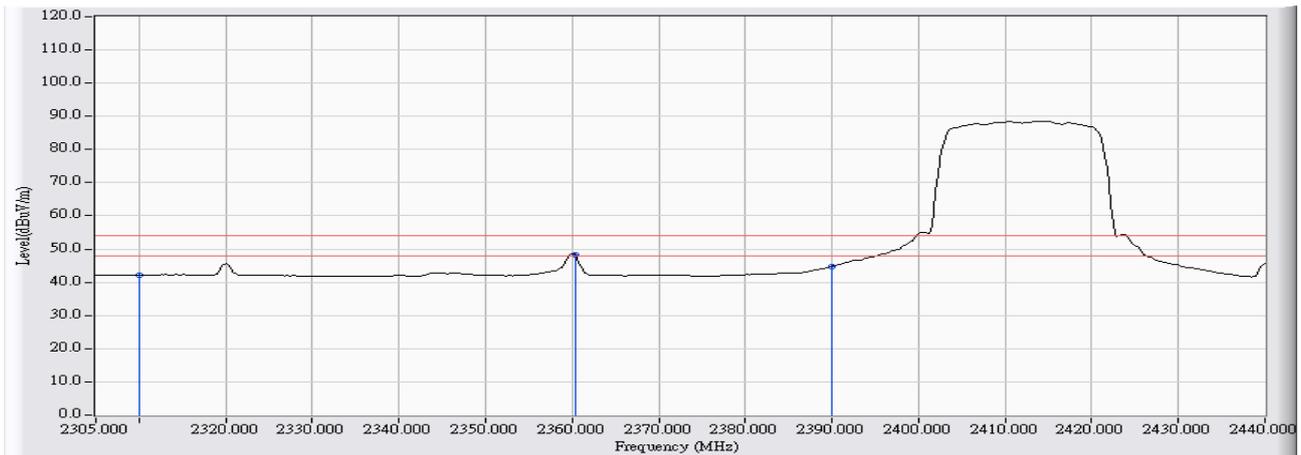


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	26.853	54.633	-19.367	74.000	PEAK
2	2389.825	27.371	44.404	71.775	-2.225	74.000	PEAK
3	* 2390.000	27.371	44.595	71.965	-2.035	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2412 MHz

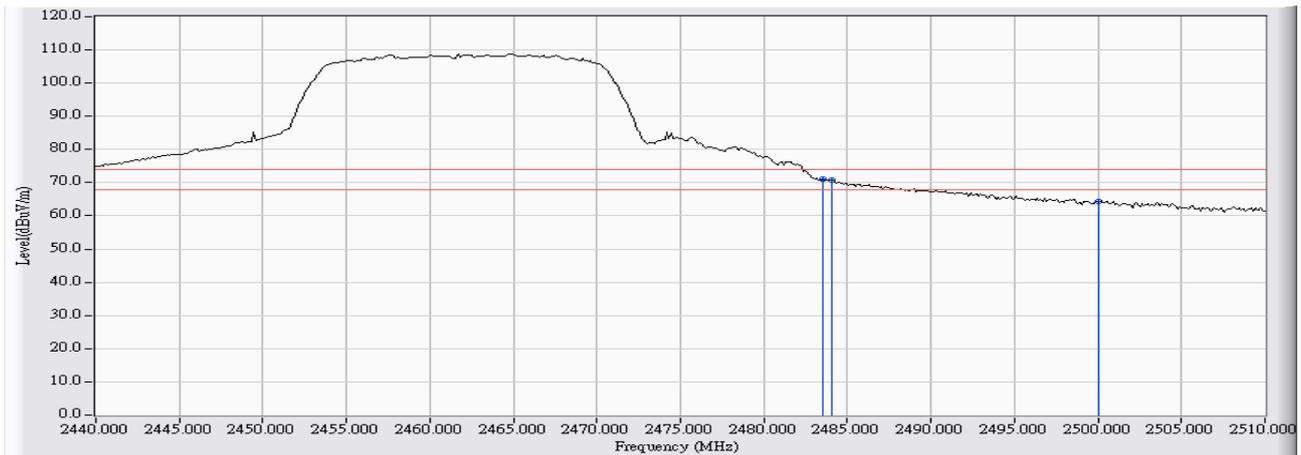


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	14.464	42.244	-11.756	54.000	AVERAGE
2	* 2360.350	27.517	20.794	48.310	-5.690	54.000	AVERAGE
3	2390.000	27.371	17.384	44.754	-9.246	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

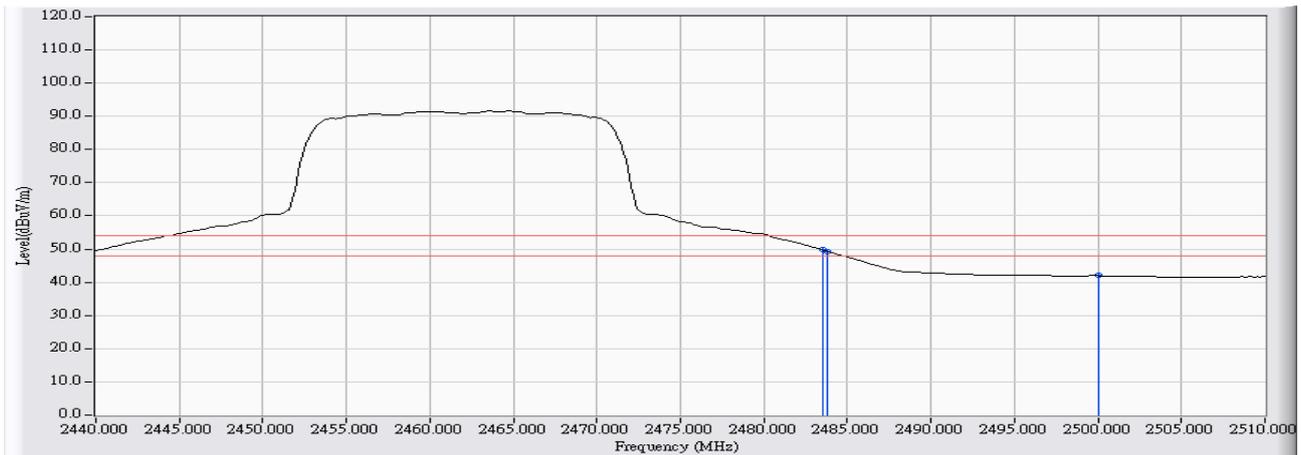


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.018	43.039	71.057	-2.943	74.000	PEAK
2		2484.100	28.021	42.758	70.779	-3.221	74.000	PEAK
3		2500.000	28.097	36.099	64.196	-9.804	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

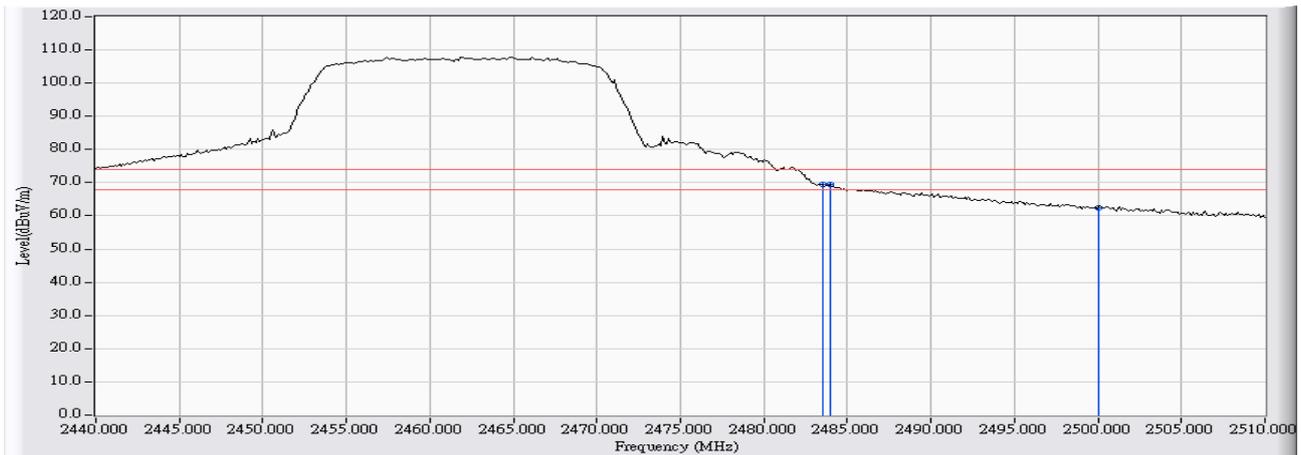


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.018	21.694	49.712	-4.288	54.000	AVERAGE
2		2483.750	28.020	21.259	49.279	-4.721	54.000	AVERAGE
3		2500.000	28.097	13.906	42.003	-11.997	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

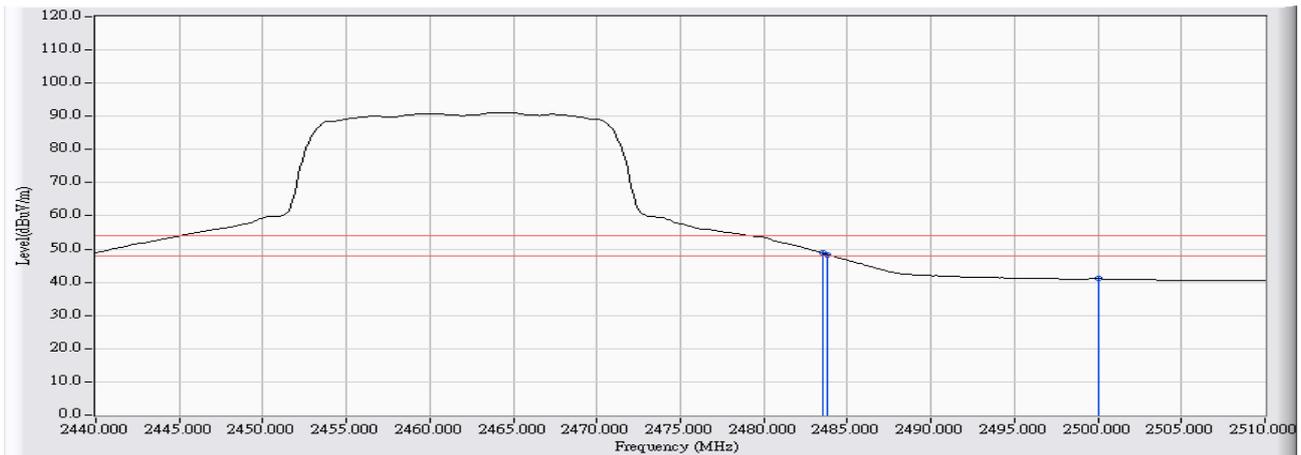


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	42.518	69.415	-4.585	74.000	PEAK
2		2483.983	26.894	42.479	69.373	-4.627	74.000	PEAK
3		2500.000	26.834	35.605	62.439	-11.561	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(20MHz)_ 2462 MHz

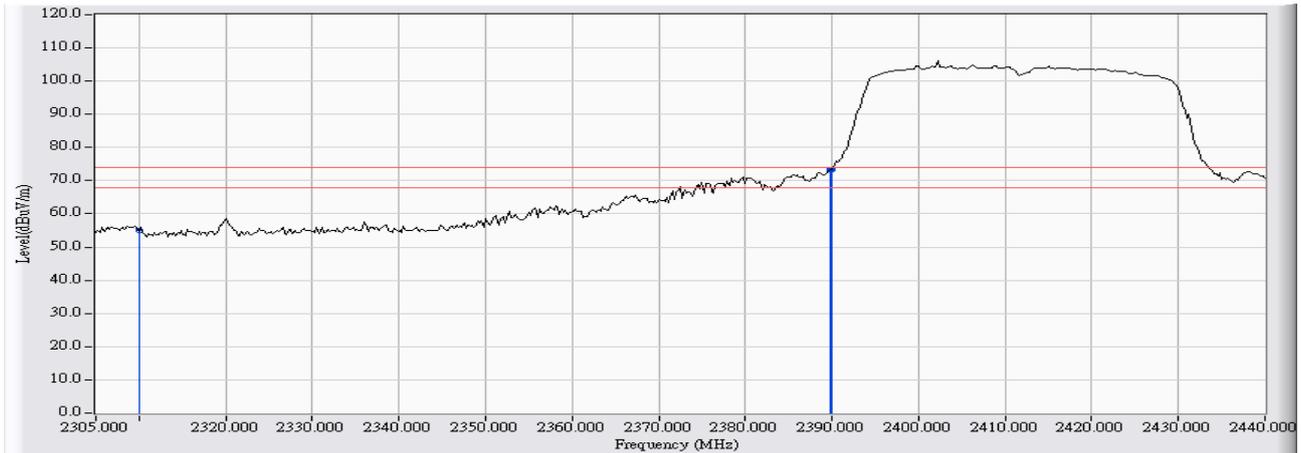


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	21.844	48.741	-5.259	54.000	AVERAGE
2		2483.750	26.896	21.432	48.327	-5.673	54.000	AVERAGE
3		2500.000	26.834	14.194	41.028	-12.972	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

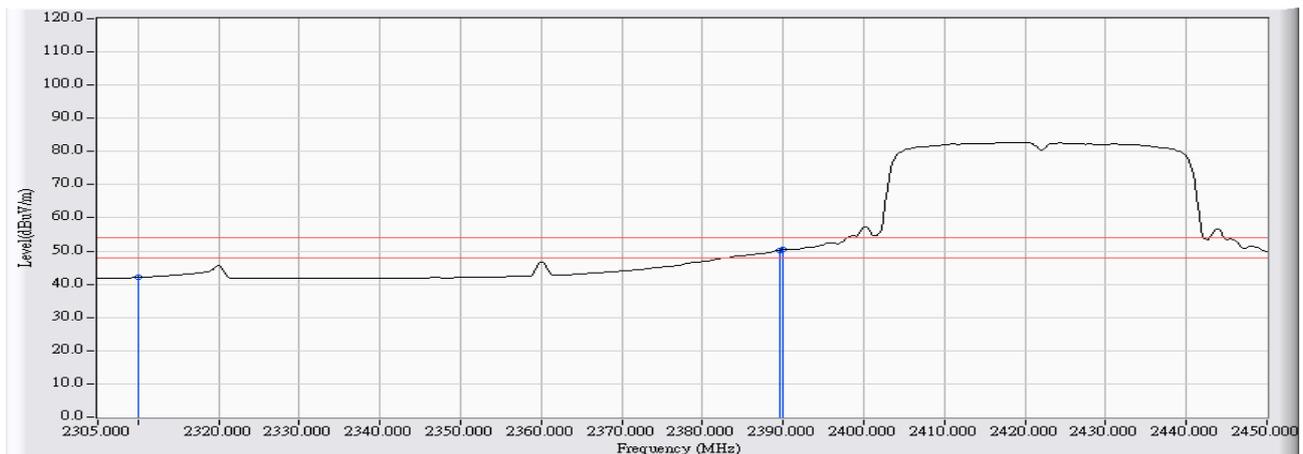


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	27.851	55.005	-18.995	74.000	PEAK
2	* 2389.825	27.547	45.821	73.369	-0.631	74.000	PEAK
3	2390.000	27.549	45.684	73.233	-0.767	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 20:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

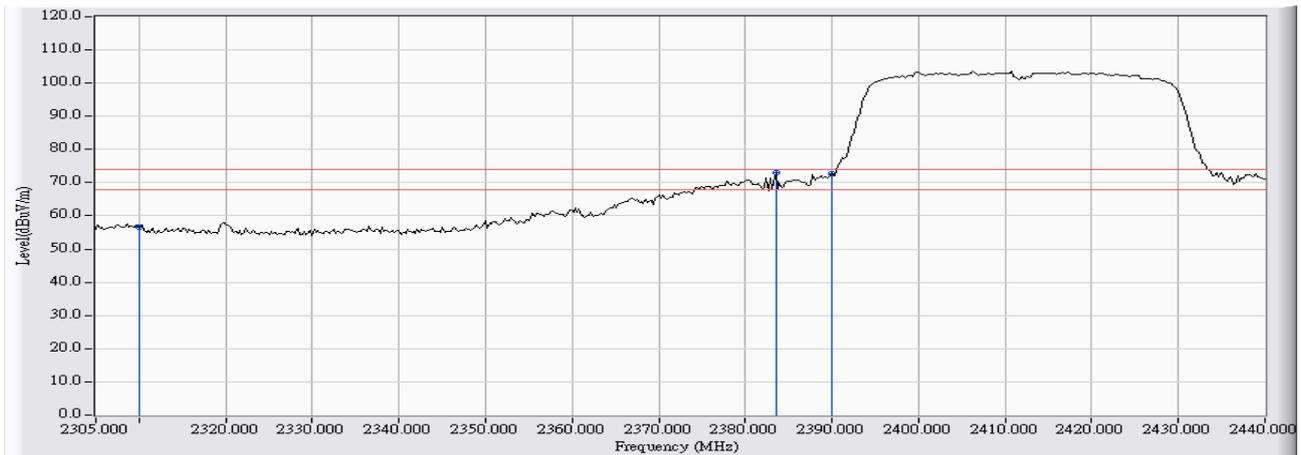


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.154	14.889	42.043	-11.957	54.000	AVERAGE
2	2389.583	27.547	22.748	50.295	-3.705	54.000	AVERAGE
3	* 2390.000	27.549	22.846	50.395	-3.605	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

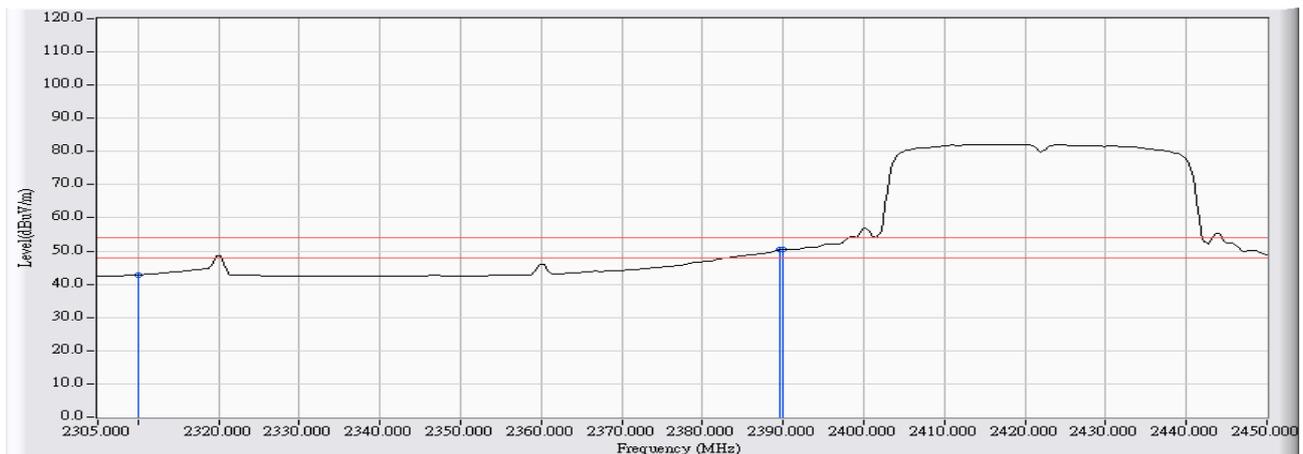


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	28.702	56.482	-17.518	74.000	PEAK
2	* 2383.525	27.404	45.494	72.898	-1.102	74.000	PEAK
3	2390.000	27.371	45.345	72.715	-1.285	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 20:15
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2422 MHz

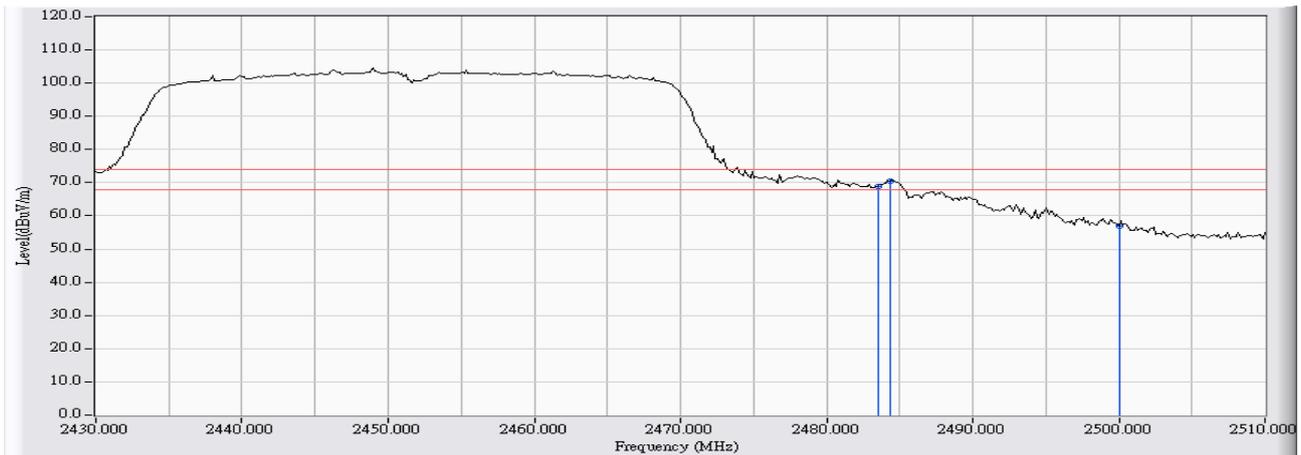


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	27.780	15.046	42.826	-11.174	54.000	AVERAGE
2	2389.583	27.372	23.015	50.388	-3.612	54.000	AVERAGE
3	* 2390.000	27.371	23.088	50.458	-3.542	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz

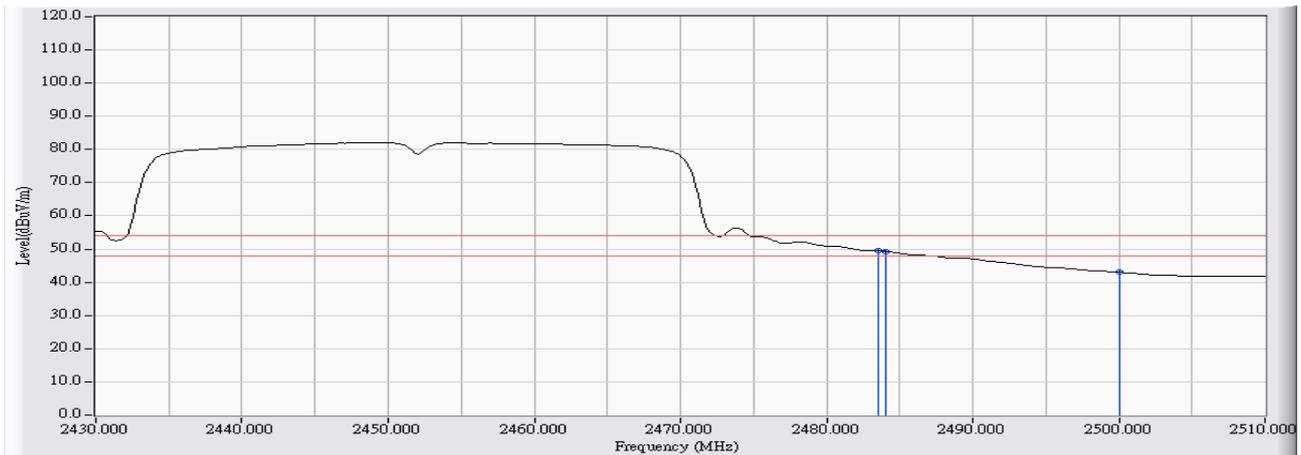


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	28.018	40.877	68.895	-5.105	74.000	PEAK
2	* 2484.400	28.023	42.469	70.492	-3.508	74.000	PEAK
3	2500.000	28.097	28.727	56.824	-17.176	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz

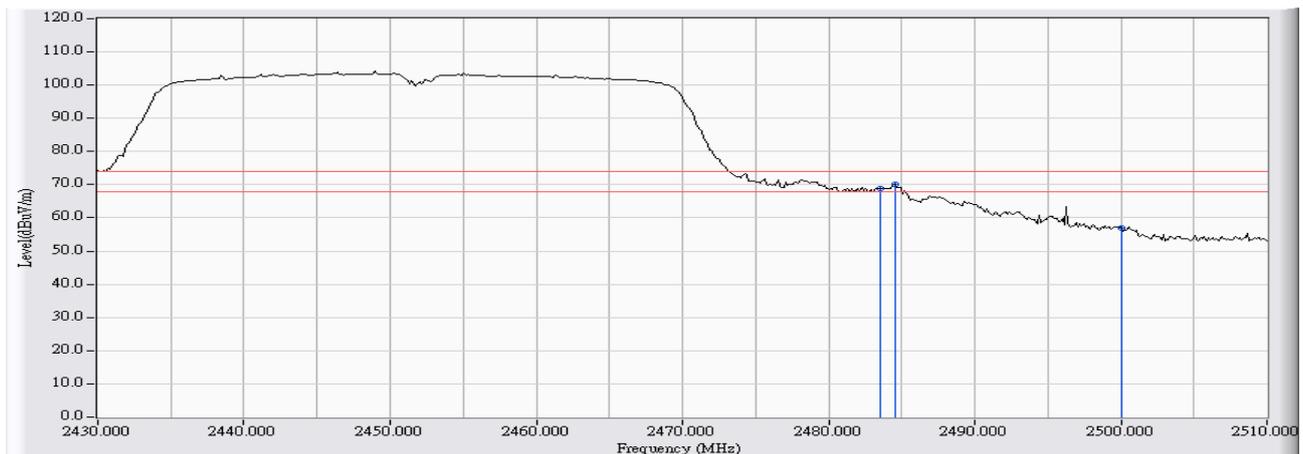


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	28.018	21.515	49.533	-4.467	54.000	AVERAGE
2		2484.000	28.021	21.290	49.311	-4.689	54.000	AVERAGE
3		2500.000	28.097	14.924	43.021	-10.979	54.000	AVERAGE

Note:

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

Site : CB1	Time : 2010/07/08 - 17:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz

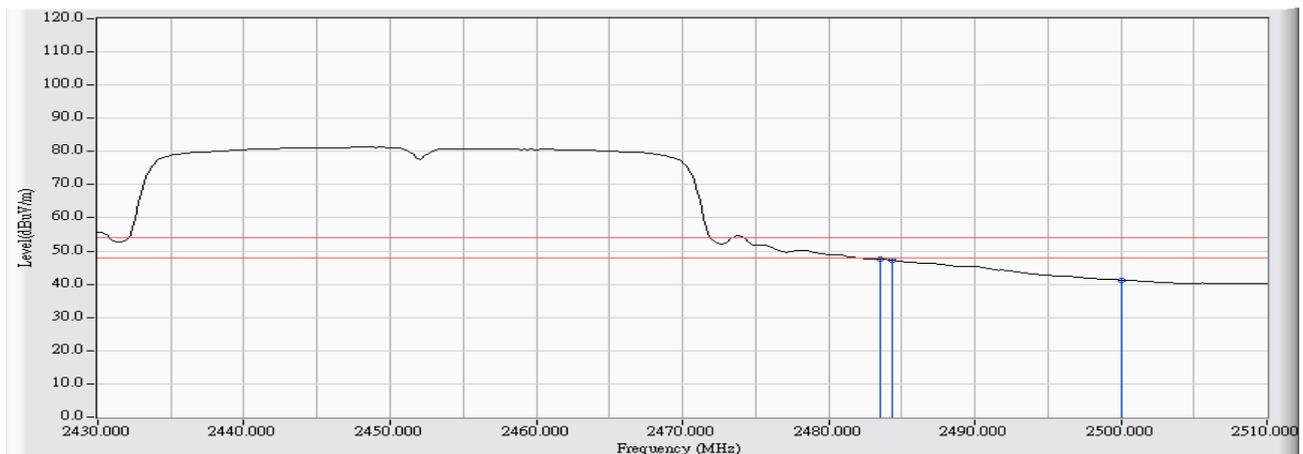


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	26.896	42.060	68.957	-5.043	74.000	PEAK
2	* 2484.533	26.890	43.378	70.269	-3.731	74.000	PEAK
3	2500.000	26.834	30.002	56.836	-17.164	74.000	PEAK

Note:

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

Site : CB1	Time : 2010/07/08 - 17:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : FCC_EFS_1-18G(2009-11) - VERTICAL	Power : AC 120V/60Hz
EUT : 3G MOBILE Wireless Router	Note : Mode 1: Transmit_GOE_802.11n(40MHz)_ 2452 MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	26.896	20.710	47.607	-6.393	54.000	AVERAGE
2		2484.400	26.891	20.393	47.284	-6.716	54.000	AVERAGE
3		2500.000	26.834	14.468	41.302	-12.698	54.000	AVERAGE

Note:

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

7. Occupied Bandwidth

7.1. Test Equipment

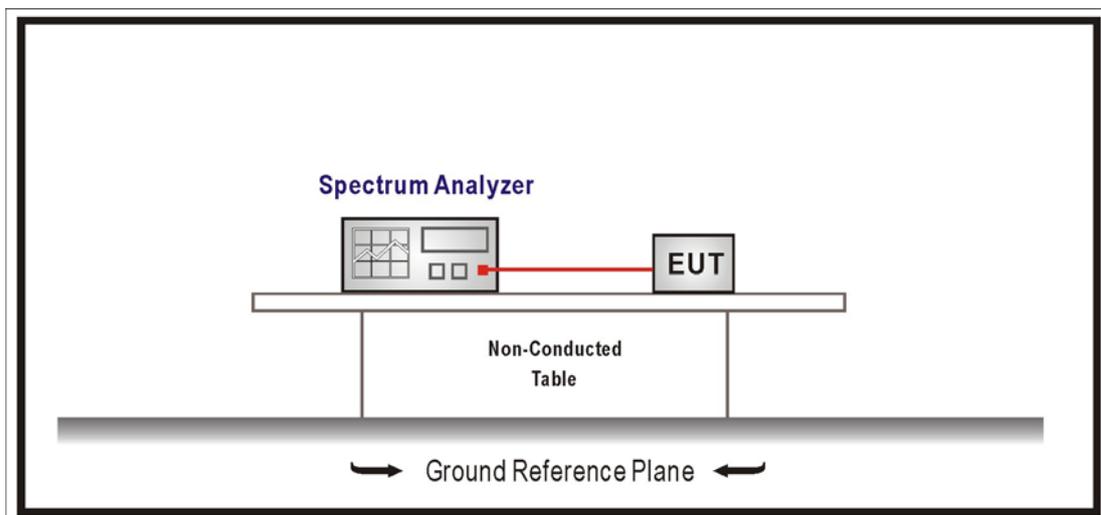
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2011/02/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2003; 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.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

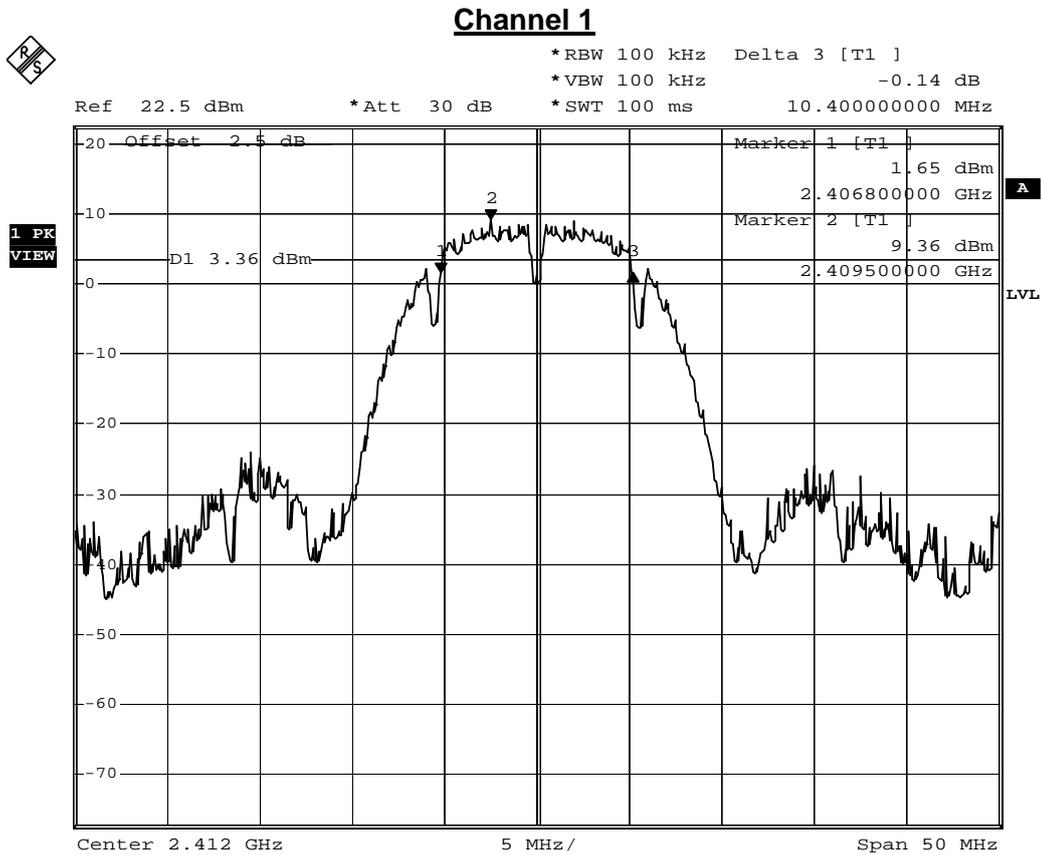
7.6. Uncertainty

The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

Product	3G MOBILE Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10400	≥500	Pass
6	2437.00	10400	≥500	Pass
11	2462.00	10400	≥500	Pass



Date: 9.JUL.2010 17:10:11

Channel 6

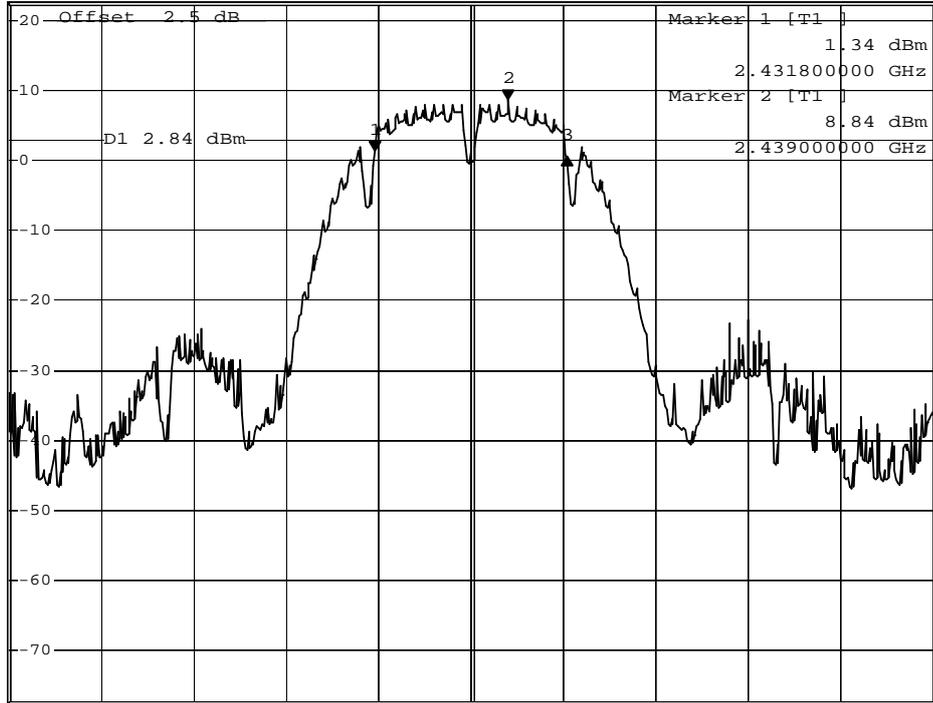


*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz -0.79 dB
 *SWT 100 ms 10.40000000 MHz

Ref 22.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.437 GHz

5 MHz/

Span 50 MHz

Date: 9.JUL.2010 17:05:17

Channel 11

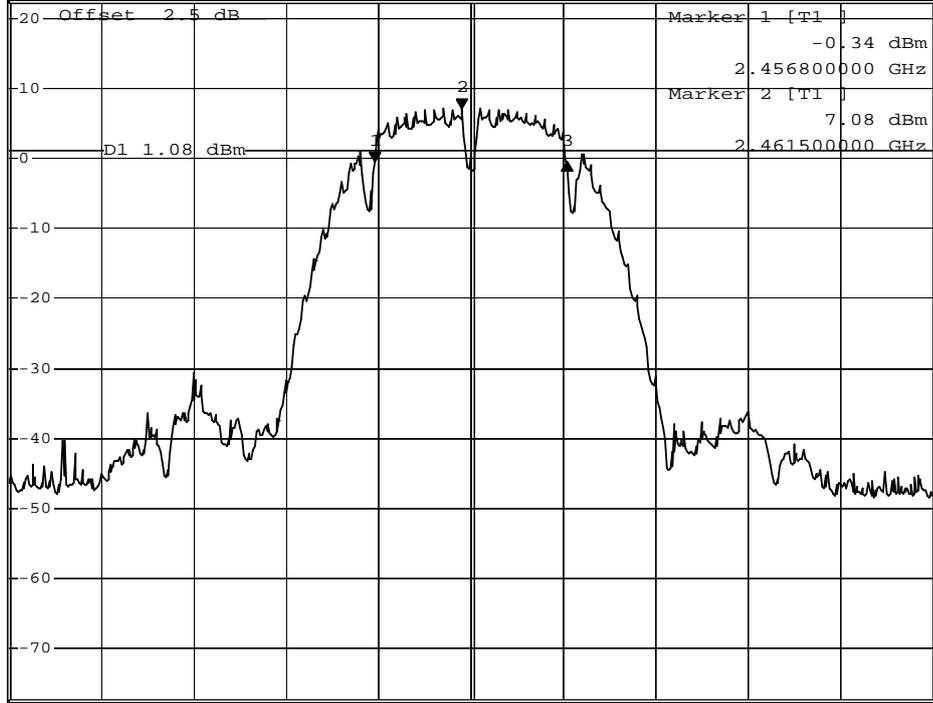


*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz -0.17 dB
 *SWT 100 ms 10.400000000 MHz

Ref 22.5 dBm

*Att 30 dB

1 PK
VIEW



Center 2.462 GHz

5 MHz/

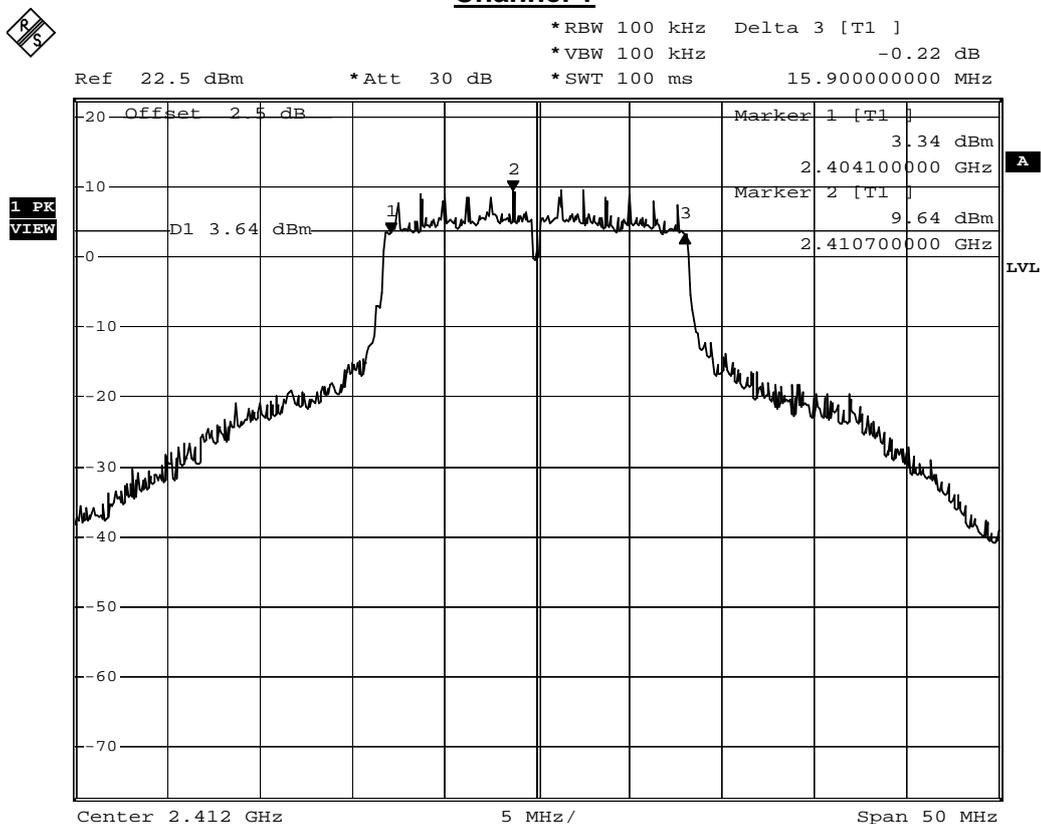
Span 50 MHz

Date: 9.JUL.2010 17:07:17

Product	3G MOBILE Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15900	≥500	Pass
6	2437.00	16300	≥500	Pass
11	2462.00	15900	≥500	Pass

Channel 1

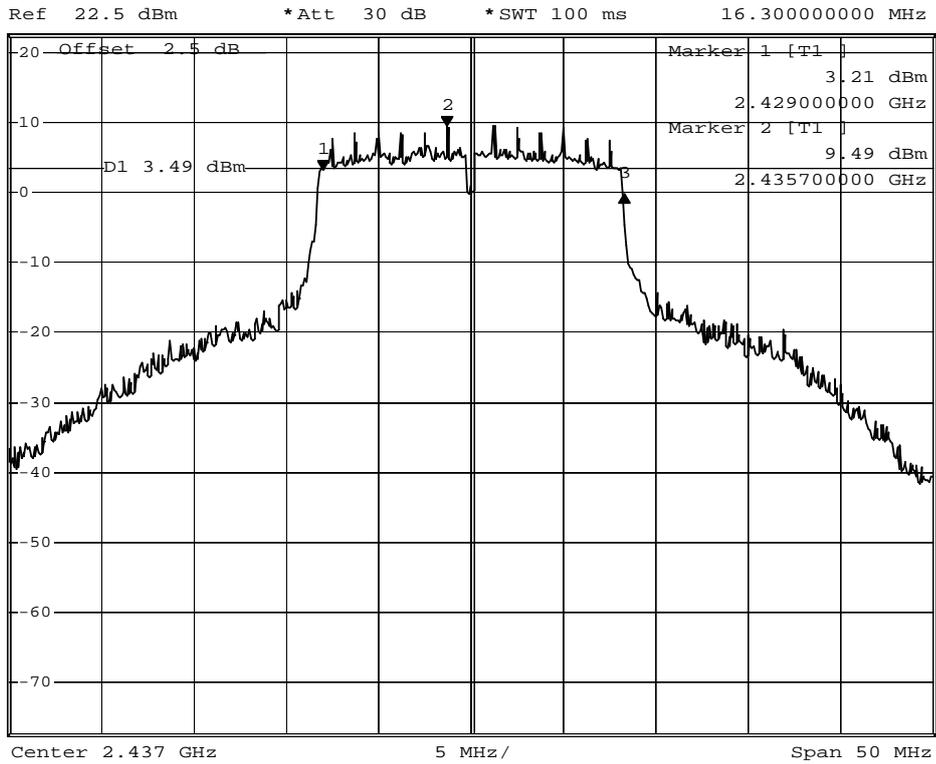


Date: 9.JUL.2010 17:12:48

Channel 6



*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz -3.53 dB
 *SWT 100 ms 16.300000000 MHz

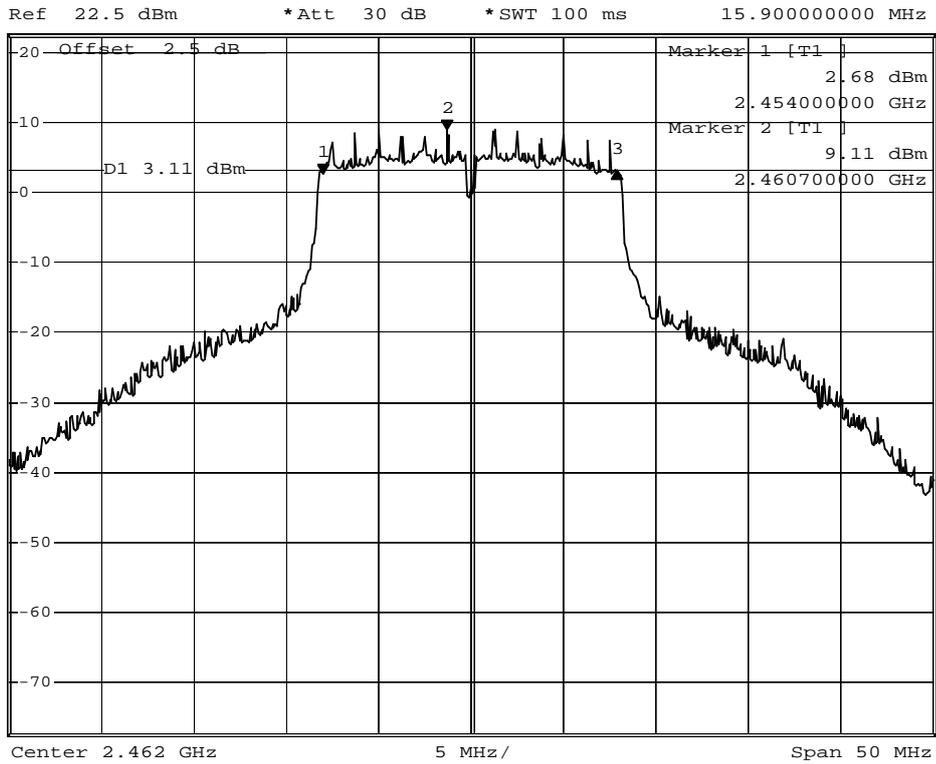


Date: 9.JUL.2010 17:14:33

Channel 11



*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz 0.46 dB
 *SWT 100 ms 15.900000000 MHz

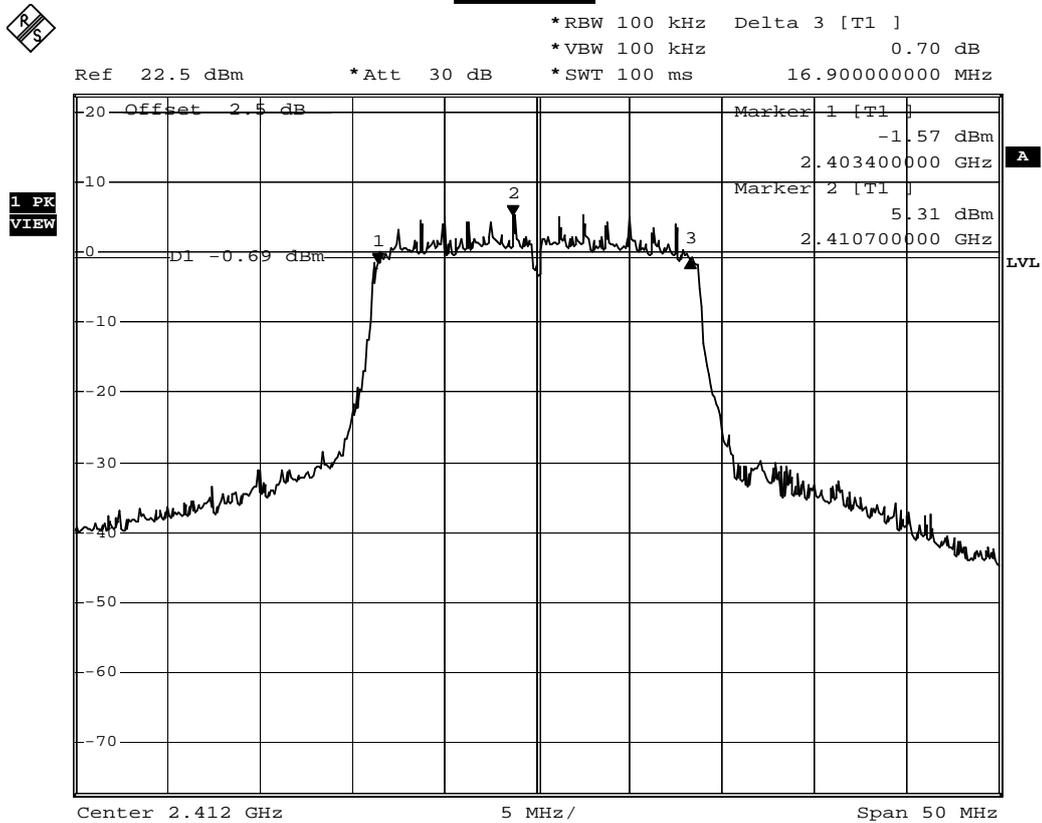


Date: 9.JUL.2010 17:16:35

Product	3G MOBILE Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11n (20MHz)				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16900	≥500	Pass
6	2437.00	16000	≥500	Pass
11	2462.00	16600	≥500	Pass

Channel 1

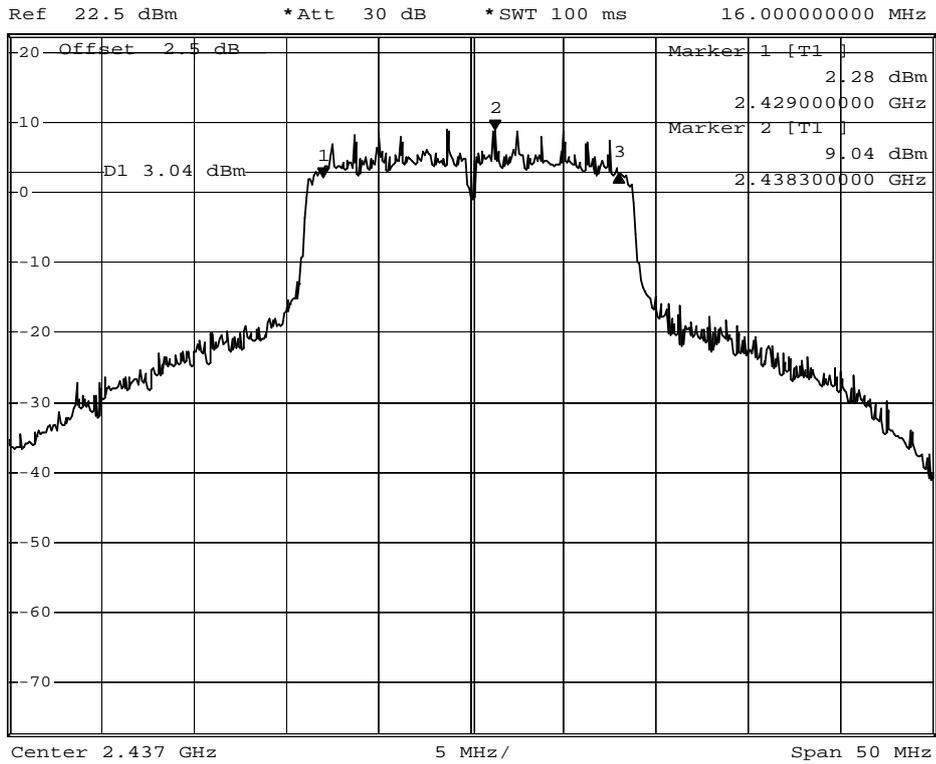


Date: 9.JUL.2010 17:26:31

Channel 6



*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz 0.48 dB
 *SWT 100 ms 16.000000000 MHz

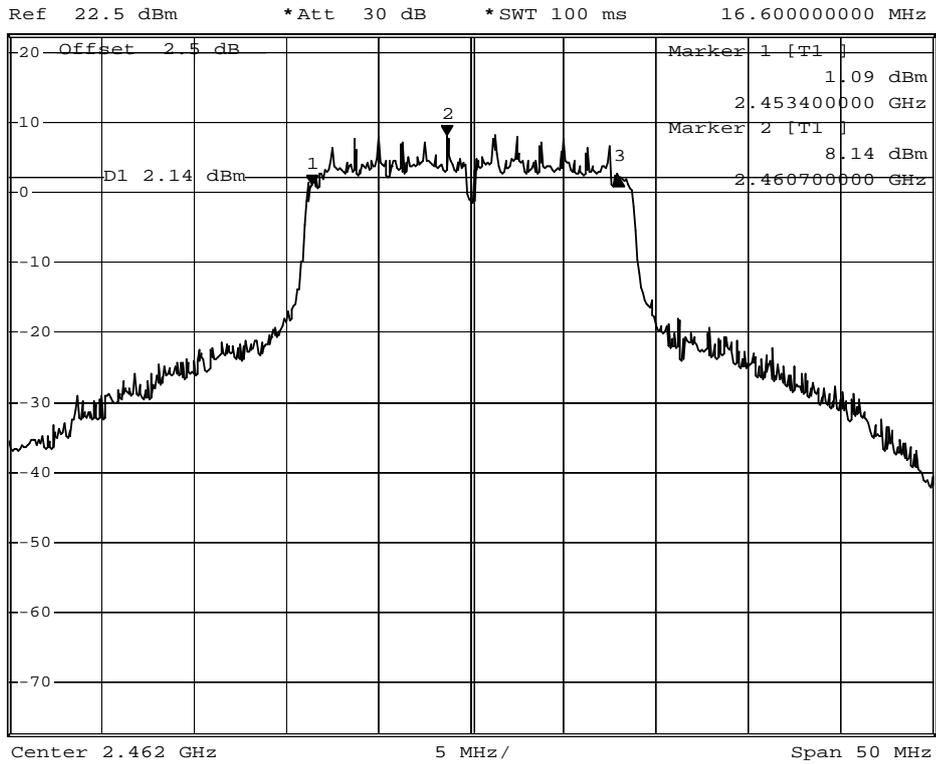


Date: 9.JUL.2010 17:20:56

Channel 11



*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz 1.04 dB
 *SWT 100 ms 16.600000000 MHz

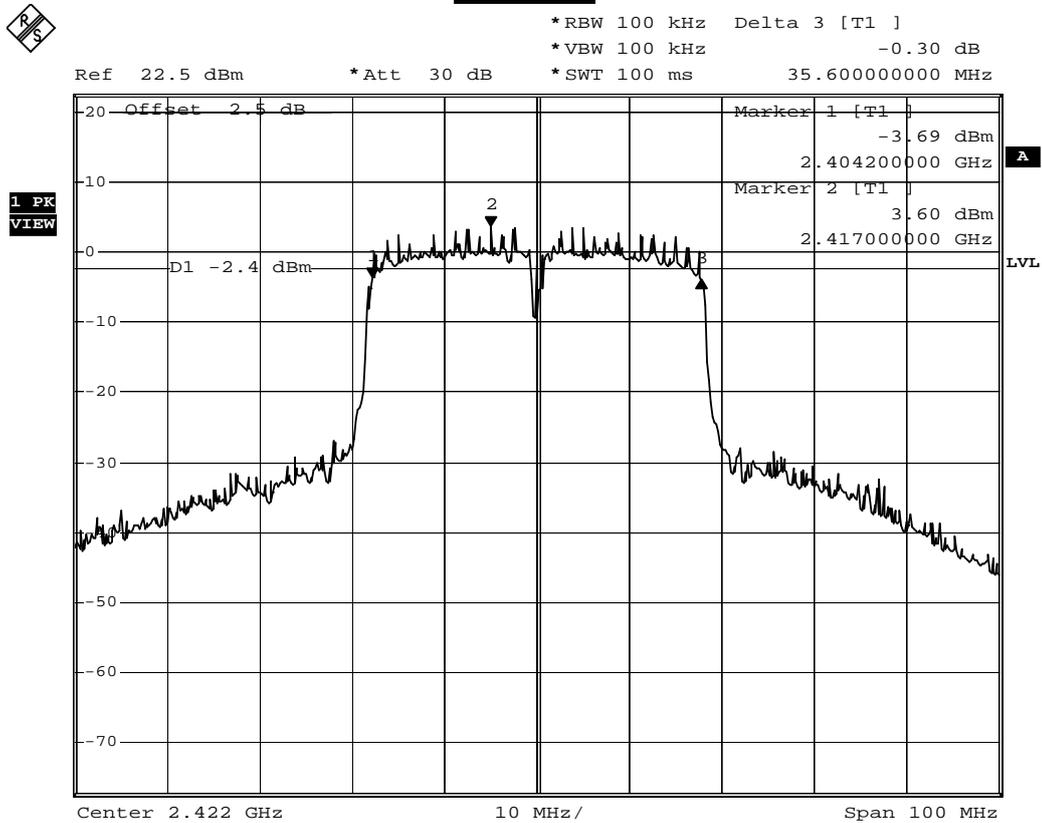


Date: 9.JUL.2010 17:24:29

Product	3G MOBILE Wireless Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11n (40MHz)				
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3	2422	35600	≥500	Pass
6	2437	35600	≥500	Pass
9	2452	35600	≥500	Pass

Channel 3



Date: 9.JUL.2010 17:28:42

Channel 6

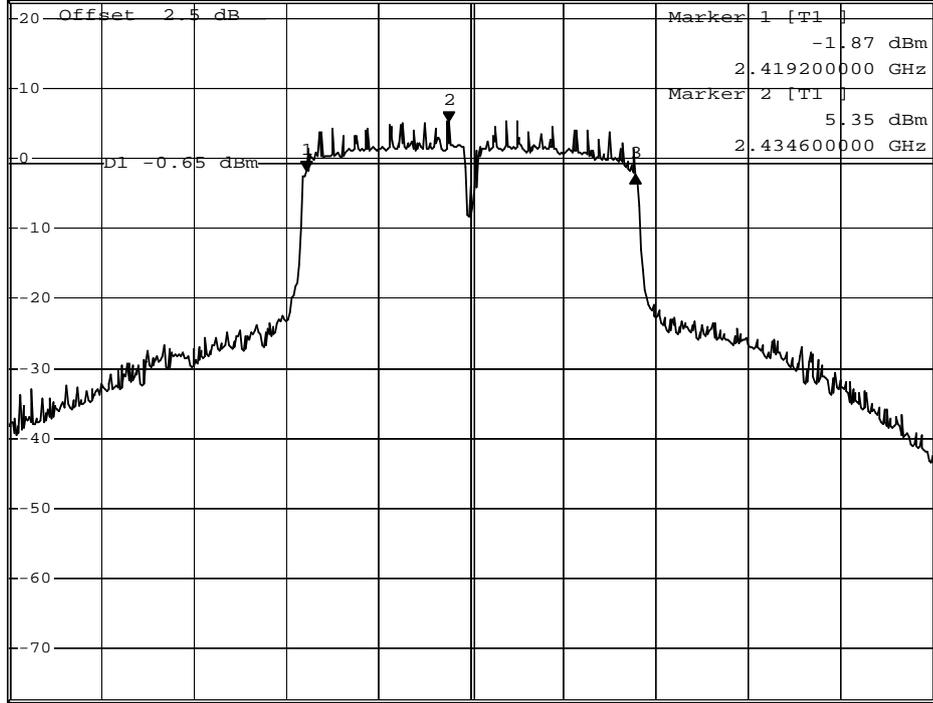


*RBW 100 kHz Delta 3 [T1]
 *VBW 100 kHz -0.51 dB
 *SWT 100 ms 35.60000000 MHz

Ref 22.5 dBm

*Att 30 dB

1 PK
VIEW

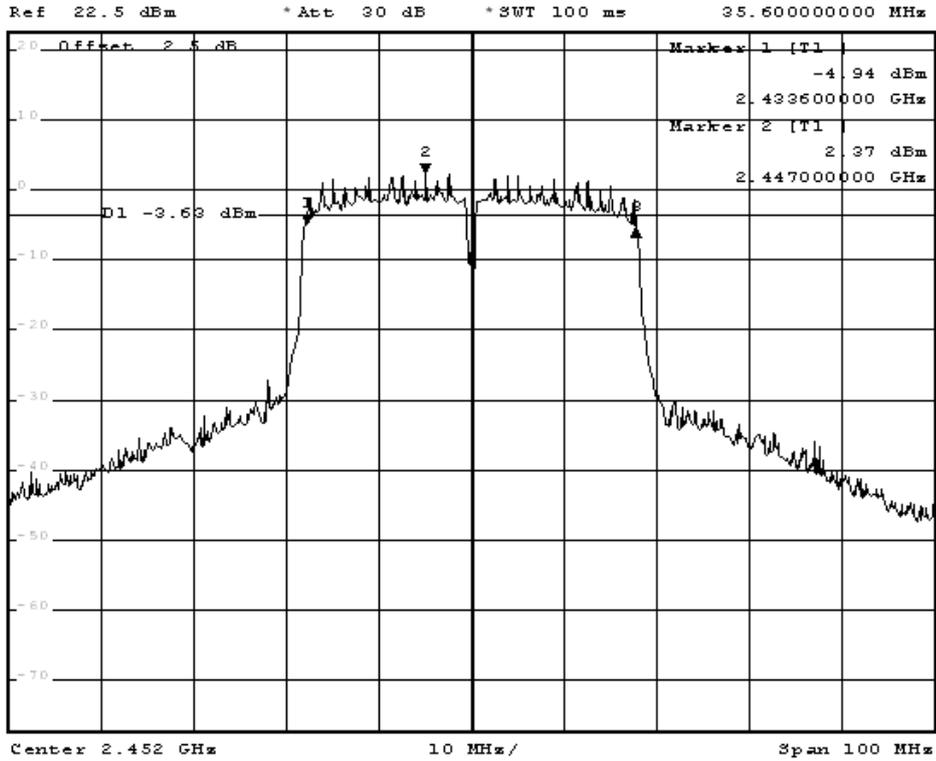


Date: 9.JUL.2010 17:30:36

Channel 9



*RBW 100 kHz Delta 3 [T1]
 *VEW 100 kHz -0.42 dB
 *SWT 100 ms 35.60000000 MHz



Date: 9.JUL.2010 17:32:27

8. Power Density

8.1. Test Equipment

The following test equipment are used during the test:

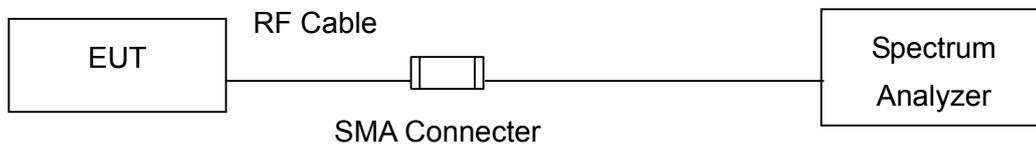
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2011/02/04

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) MODE



8.3. Limits

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. Test Procedures

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

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

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

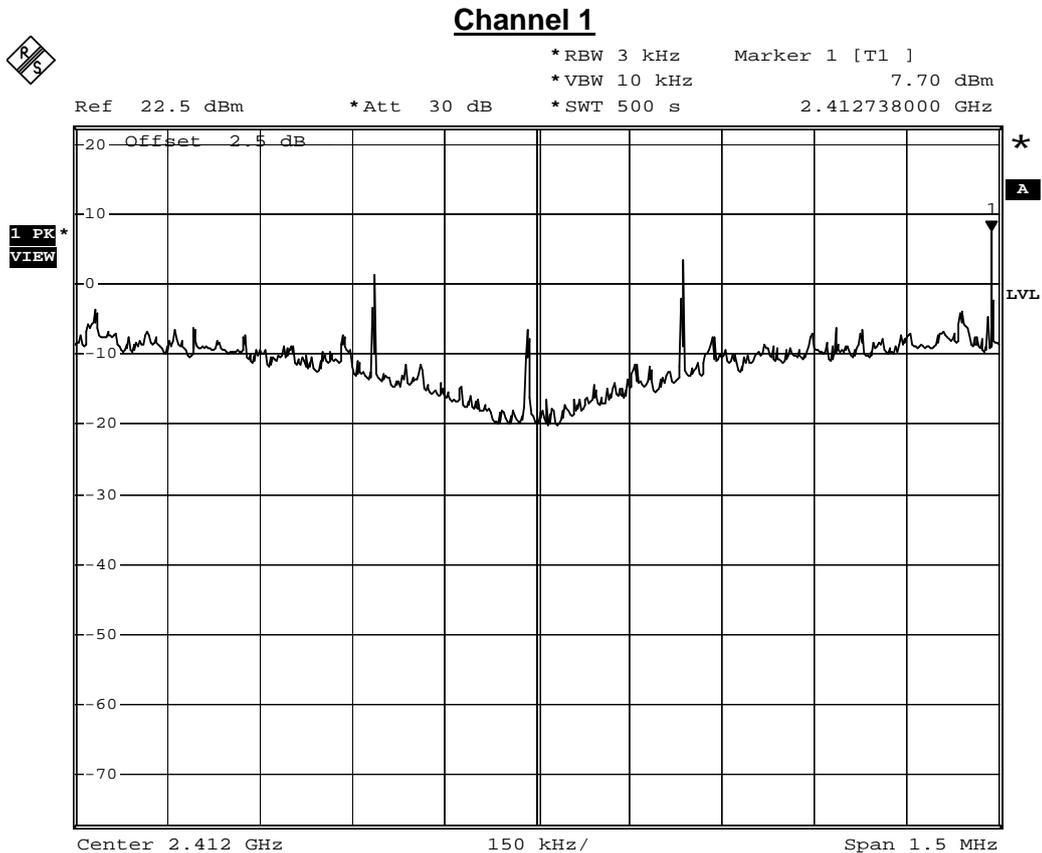
8.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

Product	3G MOBILE Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	7.70	≤8	Pass
6	2437	7.41	≤8	Pass
11	2462	6.29	≤8	Pass



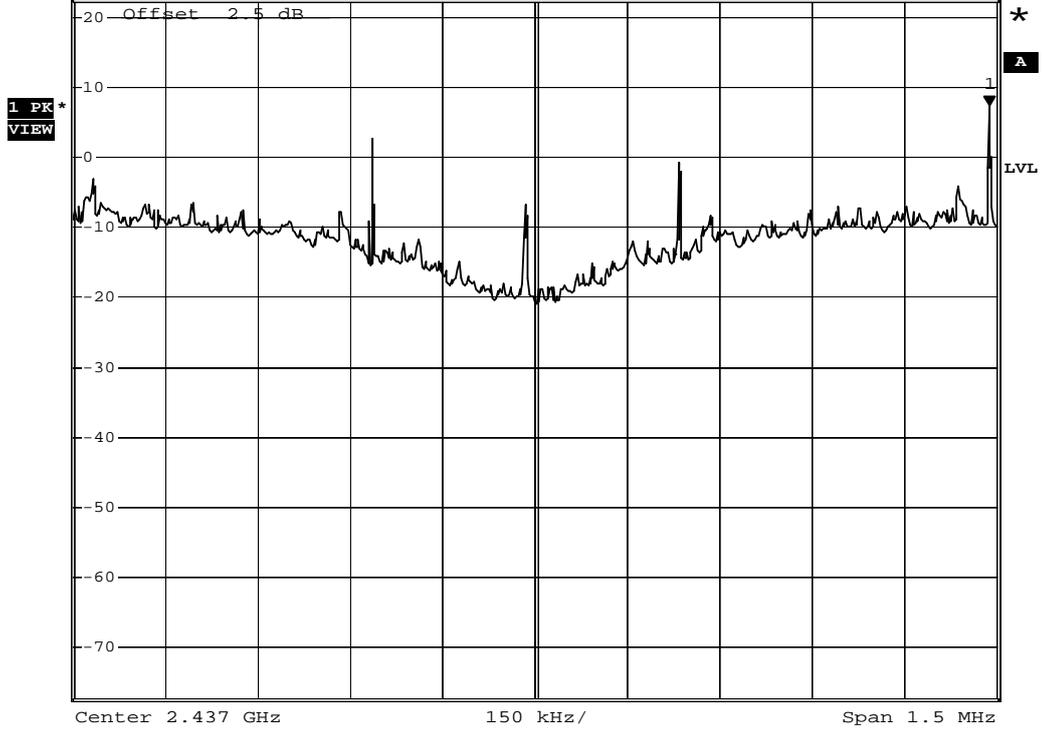
Date: 9.JUL.2010 11:17:09

Channel 6



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz 7.41 dBm
*SWT 500 s 2.437738000 GHz

Ref 22.5 dBm *Att 30 dB



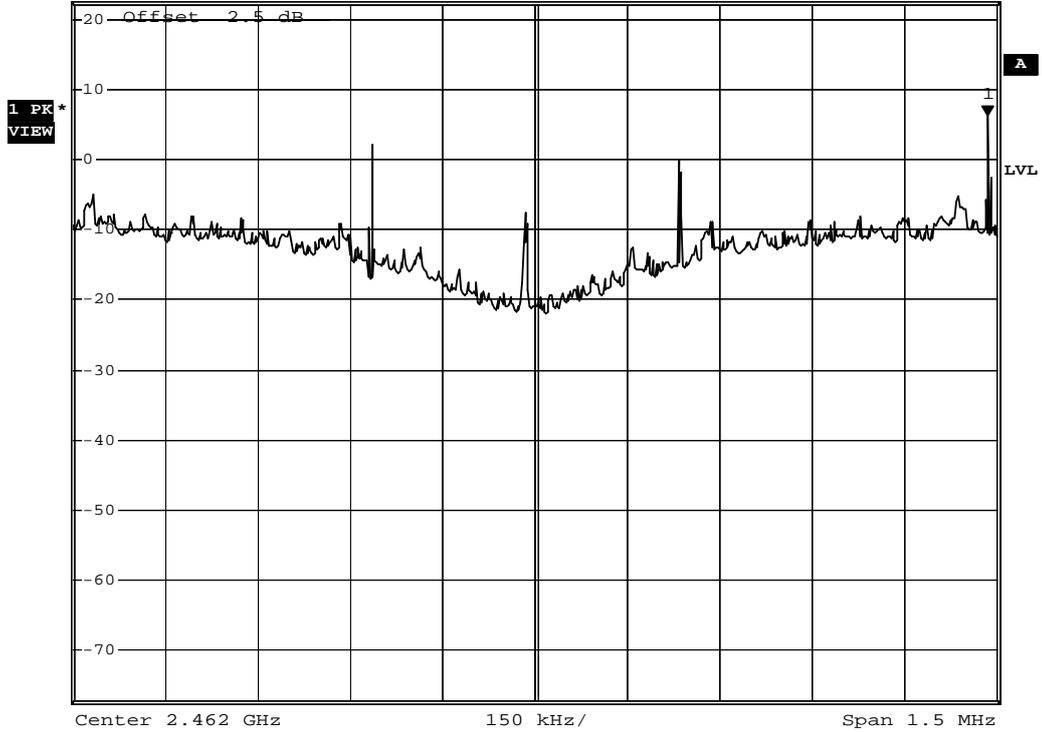
Date: 9.JUL.2010 11:27:33

Channel 11



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz 6.29 dBm
*SWT 500 s 2.462735000 GHz

Ref 22.5 dBm *Att 30 dB

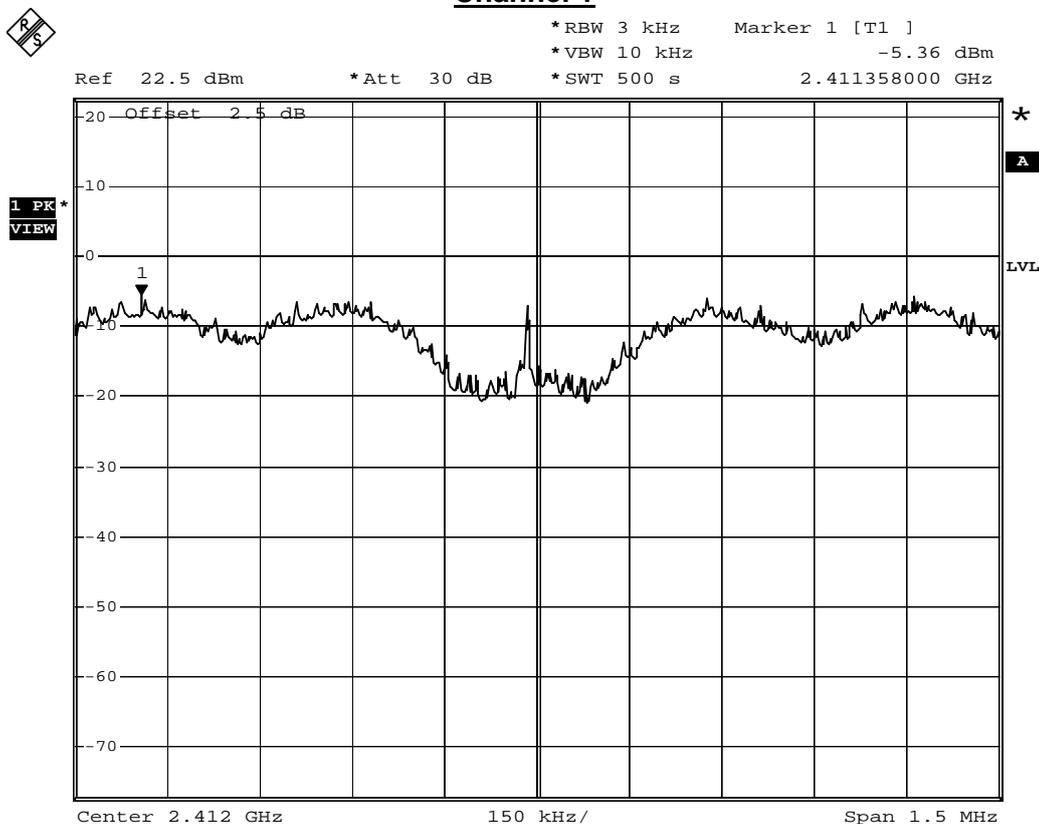


Date: 9.JUL.2010 11:37:01

Product	3G MOBILE Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-5.36	≤8	Pass
6	2437	-6.04	≤8	Pass
11	2462	-6.36	≤8	Pass

Channel 1



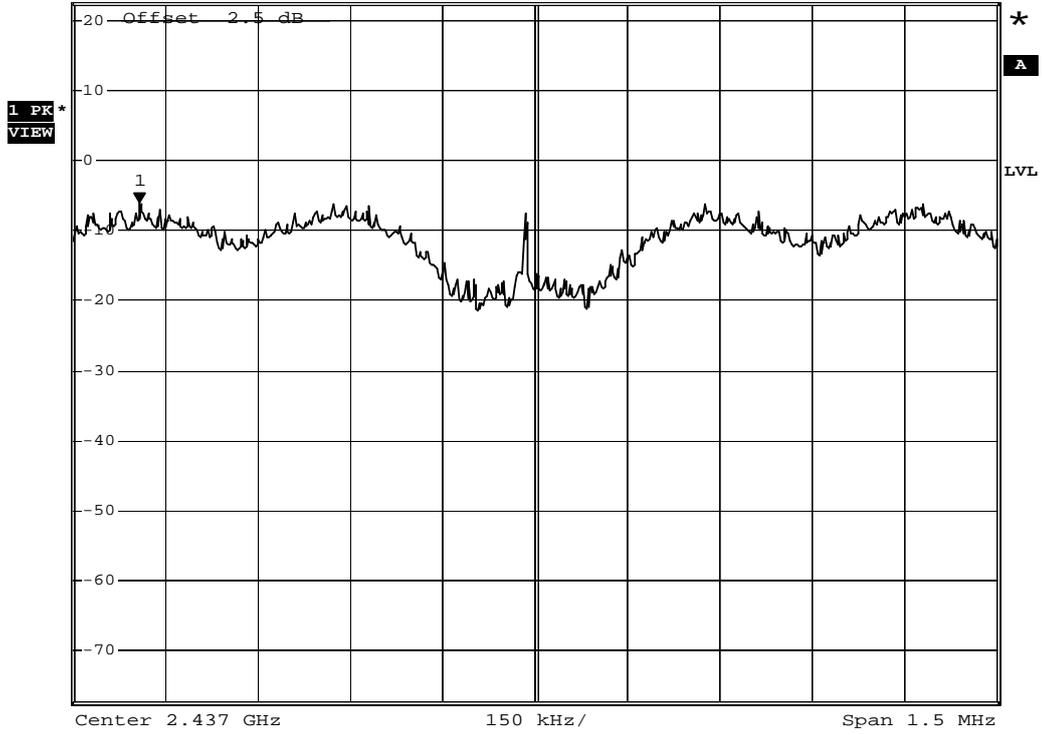
Date: 9.JUL.2010 11:42:30

Channel 6



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.04 dBm
*SWT 500 s 2.436358000 GHz

Ref 22.5 dBm *Att 30 dB



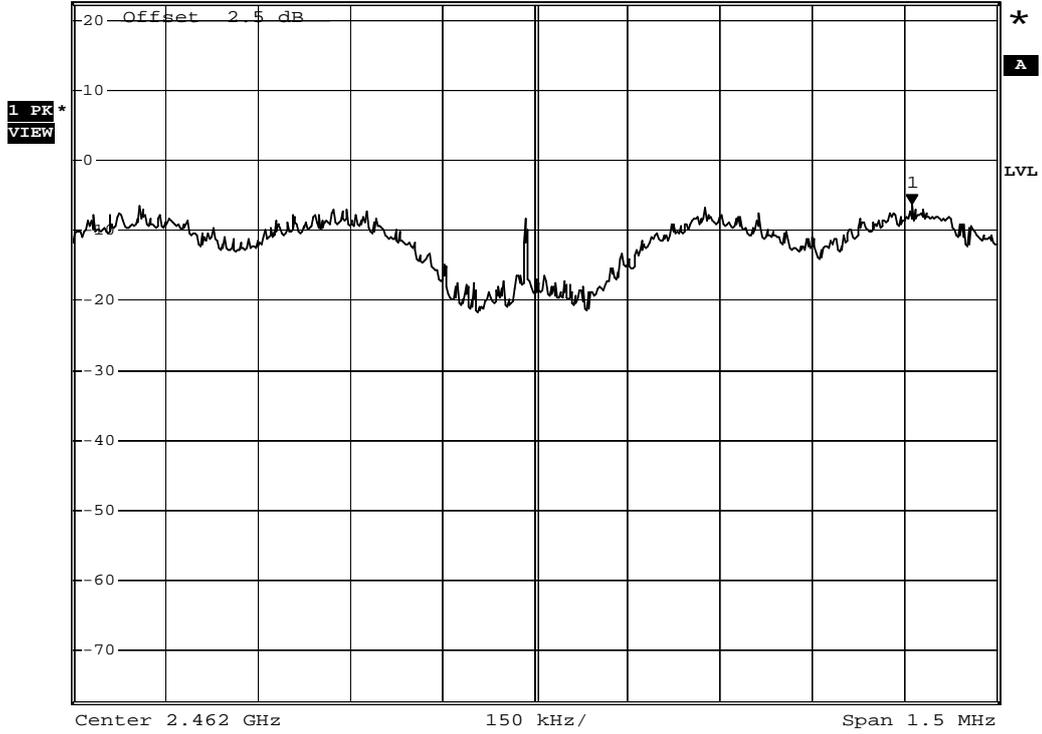
Date: 9.JUL.2010 11:56:58

Channel 11



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.36 dBm
*SWT 500 s 2.462612000 GHz

Ref 22.5 dBm *Att 30 dB

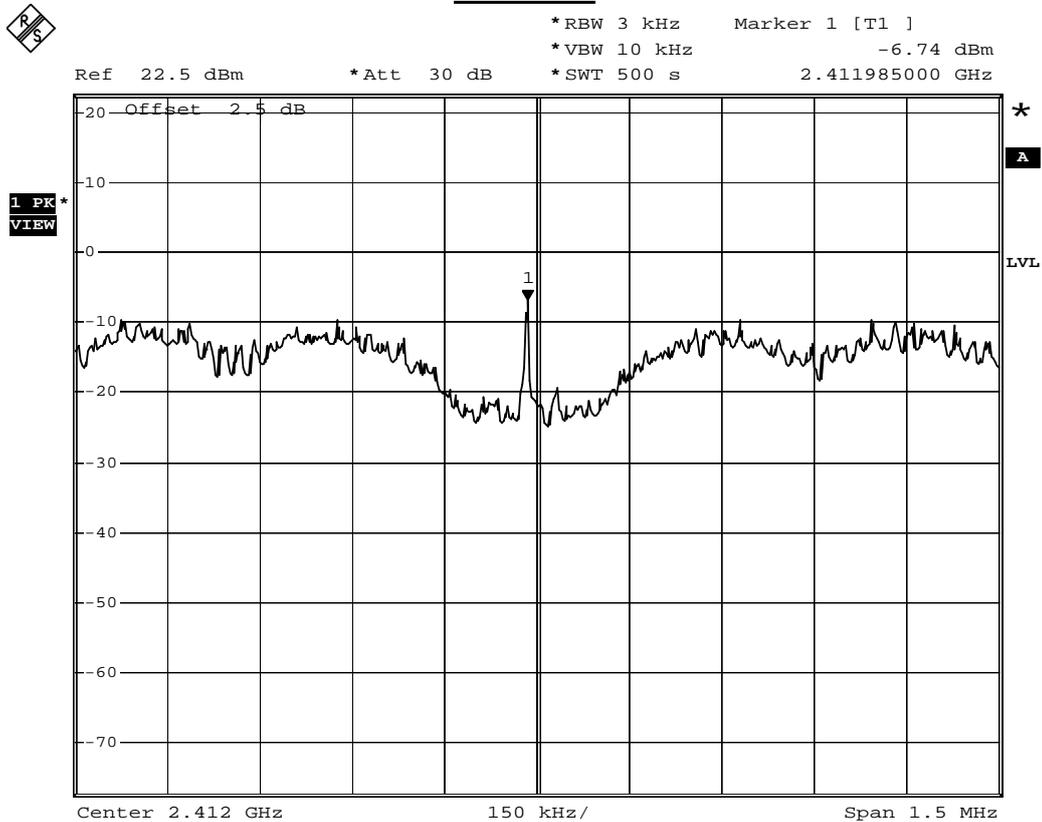


Date: 9.JUL.2010 12:01:41

Product	3G MOBILE Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE802.11n (20MHz)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-6.74	≤8	Pass
6	2437.00	-6.50	≤8	Pass
11	2462.00	-5.31	≤8	Pass

Channel 1



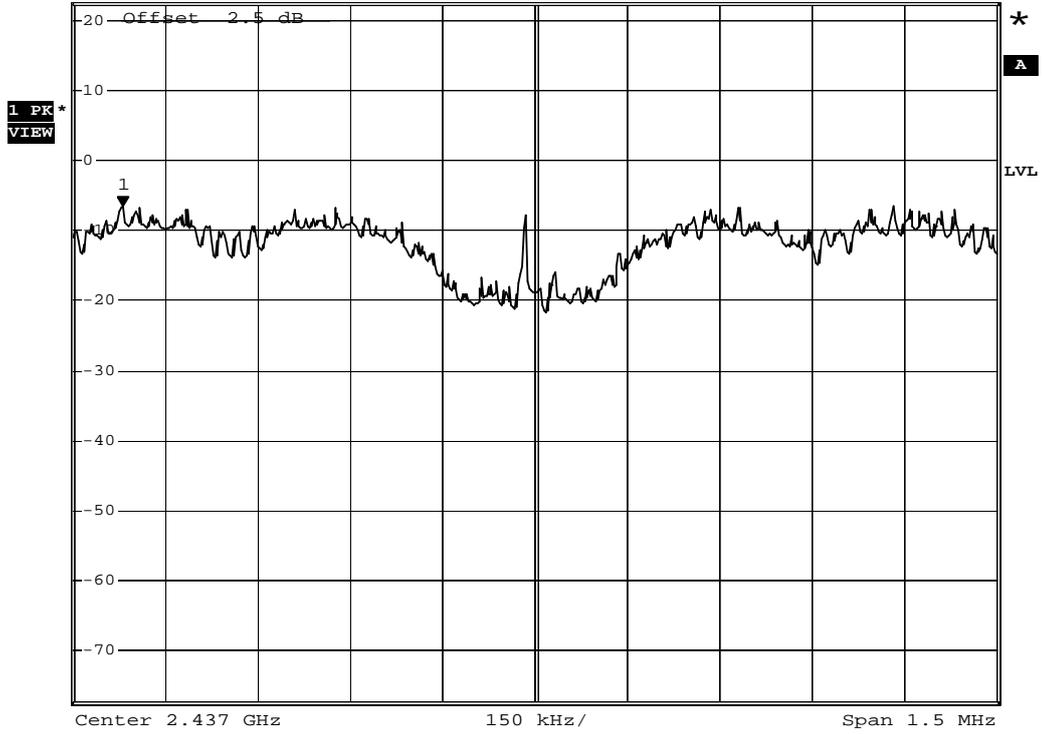
Date: 9.JUL.2010 13:13:34

Channel 6



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -6.50 dBm
*SWT 500 s 2.436331000 GHz

Ref 22.5 dBm *Att 30 dB



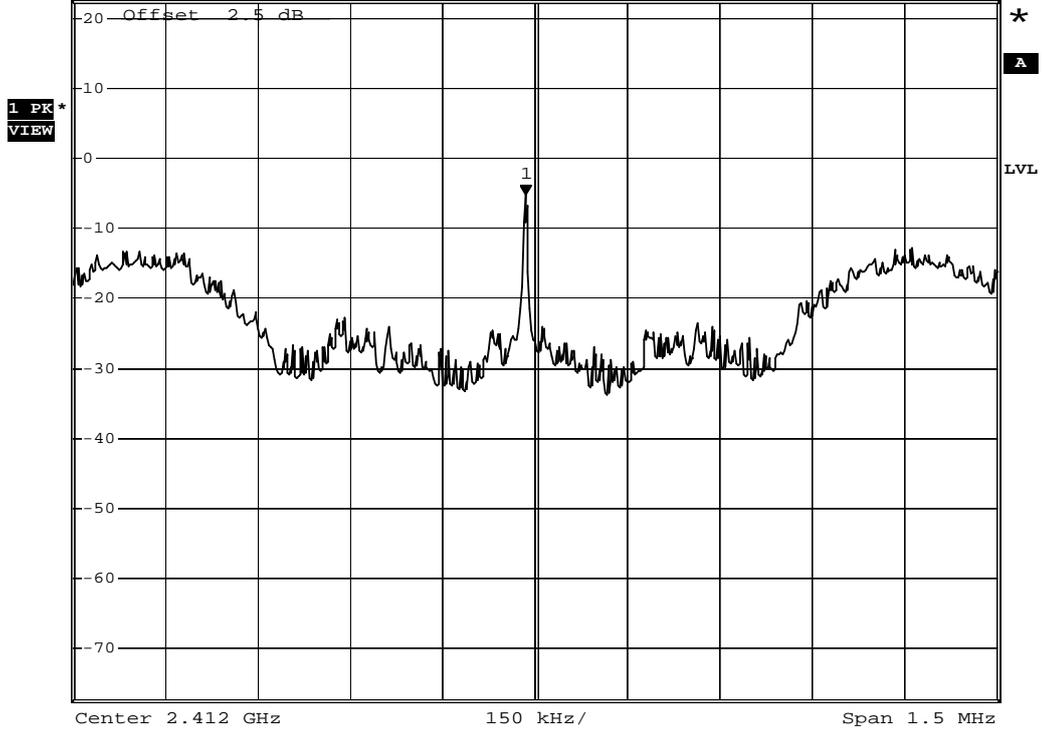
Date: 9.JUL.2010 13:23:40

Channel 11



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -5.31 dBm
*SWT 200 s 2.411985000 GHz

Ref 22.5 dBm *Att 30 dB

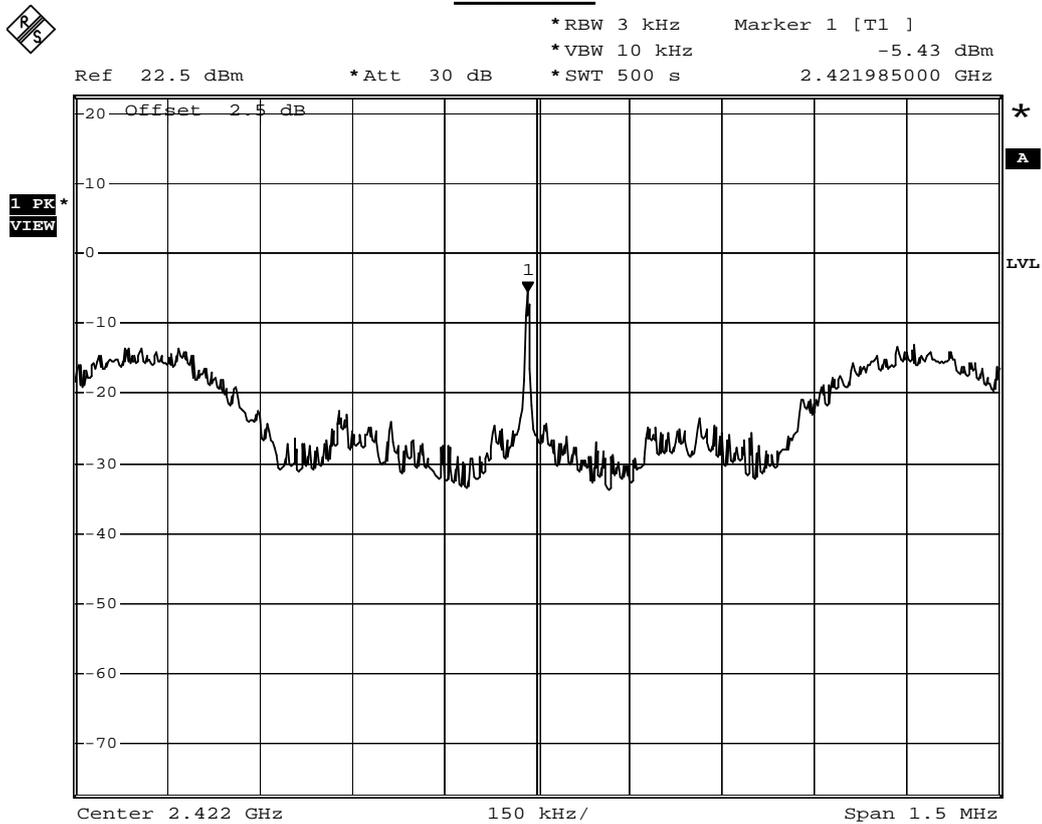


Date: 9.JUL.2010 13:33:10

Product	3G MOBILE Wireless Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit_GOE		
Date of Test	2010/07/09	Test Site	SR7

IEEE 802.11n (40MHz)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-5.43	≤ 8	Pass
6	2437	-9.61	≤ 8	Pass
9	2452	-12.23	≤ 8	Pass

Channel 3

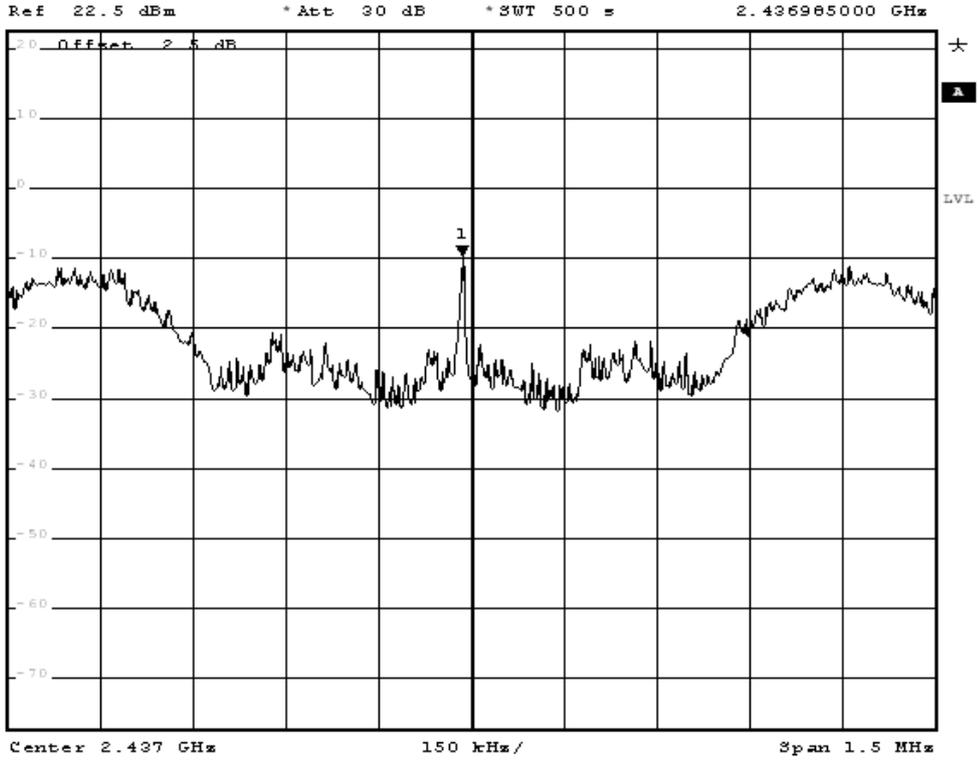


Date: 9.JUL.2010 13:39:01

Channel 6



*RBW 3 kHz Marker 1 [T1]
*VEW 10 kHz -9.61 dBm
*SWT 500 = 2.436985000 GHz



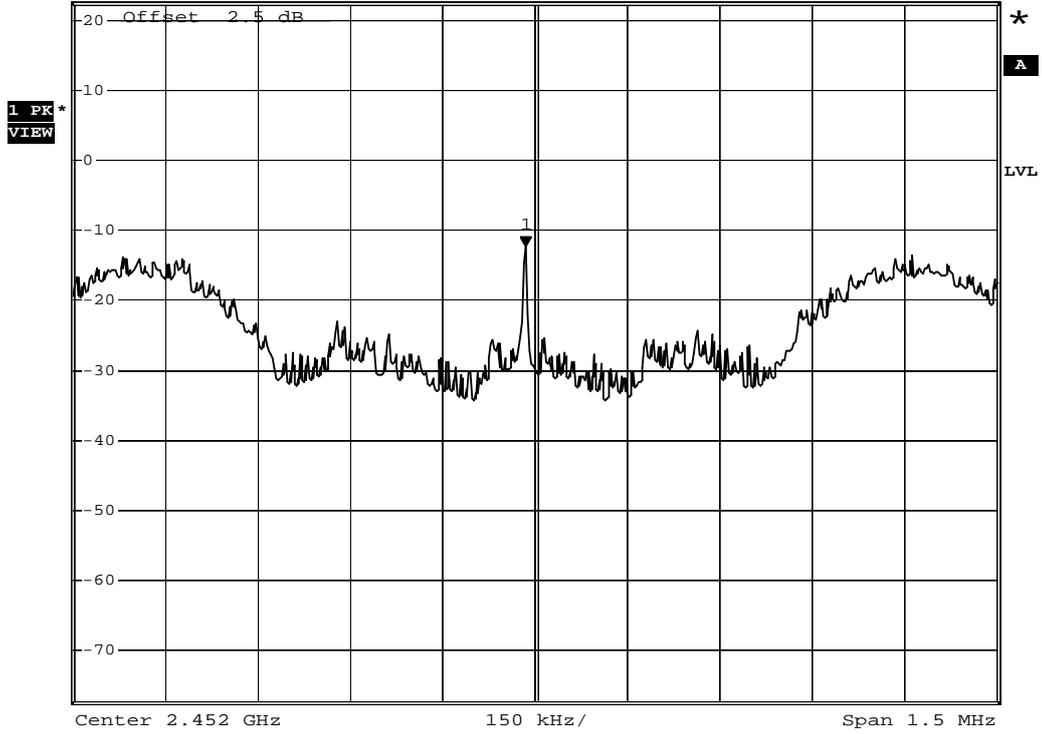
Date: 9.JUL.2010 13:43:32

Channel 9



*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -12.23 dBm
*SWT 500 s 2.451985000 GHz

Ref 22.5 dBm *Att 30 dB



Date: 9.JUL.2010 13:48:48