



Test Report

Product Name : Dual-band Wireless USB Adapter
Model No. : USB-N53
FCC ID. : MSQ-USBN53

Applicant : ASUSTeK COMPUTER INC.

Address : No. 15, Li-Te Rd., Peitou, Taipei 112, Taiwan R.O.C.

Date of Receipt : 2011/05/11
Issued Date : 2011/06/29
Report No. : 115250R-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 : 2011/06/29

Report No. : 115250R-RFUSP42V01



Product Name : Dual-band Wireless USB Adapter
 Applicant : ASUSTeK COMPUTER INC.
 Address : No. 15, Li-Te Rd., Peitou, Taipei 112, Taiwan R.O.C.
 Manufacturer : Askey Technology (Jiangsu) LTD.
 Model No. : USB-N53
 FCC ID. : MSQ-USBN53
 EUT Voltage : DC 5V (Power by PC)
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

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TABLE OF CONTENTS

Description	Page
1. General Information.....	5
1.1. EUT Description	5
1.2. Operational Description.....	9
1.3. Test Mode	10
1.4. Tested System Details.....	11
1.5. Configuration of tested System	12
1.6. EUT Exercise Software	12
1.7. Test Facility.....	13
2. Conducted Emission	15
2.1. Test Equipment.....	15
2.2. Test Setup	15
2.3. Limits	16
2.4. Test Procedure	16
2.5. Test Specification.....	16
2.6. Uncertainty	16
2.7. Test Result.....	17
2.8. Test Photo	21
3. Peak Power Output	22
3.1. Test Equipment.....	22
3.2. Test Setup	22
3.3. Test procedures.....	22
3.4. Limits	22
3.5. Test Specification.....	22
3.6. Uncertainty	22
3.7. Test Result.....	23
4. Radiated Emission	38
4.1. Test Equipment.....	38
4.2. Test Setup	38
4.3. Limits	39
4.4. Test Procedure	39
4.5. Test Specification.....	39
4.6. Uncertainty	39
4.7. Test Result.....	40
4.8. Test Photo	97

5.	RF antenna conducted test	99
5.1.	Test Equipment.....	99
5.2.	Test Setup	99
5.3.	Limits	100
5.4.	Test Procedure	100
5.5.	Test Specification.....	100
5.6.	Uncertainty	100
5.7.	Test Result.....	101
6.	Radiated Emission Band Edge.....	167
6.1.	Test Equipment.....	167
6.2.	Test Setup	167
6.3.	Limits	168
6.4.	Test Procedure	168
6.5.	Test Specification.....	168
6.6.	Uncertainty	168
6.7.	Test Result.....	169
7.	Occupied Bandwidth	201
7.1.	Test Equipment.....	201
7.2.	Test Setup	201
7.3.	Test Procedures	201
7.4.	Limits	201
7.5.	Test Specification.....	201
7.6.	Uncertainty	201
7.7.	Test Result.....	202
8.	Power Density	233
8.1.	Test Equipment.....	233
8.2.	Test Setup	233
8.3.	Limits	233
8.4.	Test Procedures	233
8.5.	Test Specification.....	233
8.6.	Uncertainty	233
8.7.	Test Result.....	234
Attachement.....		269
	EUT Photograph.....	269

1. General Information

1.1. EUT Description

Product Name	Dual-band Wireless USB Adapter
Product Type	WLAN(2TX,2RX)
Trade Name	ASUS
Model No.	USB-N53
Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz) _2.4GHz	2412~2462MHz
Frequency Range- IEEE 802.11n (40MHz) _2.4GHz	2422~2452MHz
Frequency Range -IEEE 802.11a & IEEE 802.11n (20MHz) _5.8GHz	5745~5825MHz
Frequency Range- IEEE 802.11n (40MHz) _5.8GHz	5755~5795MHz
Channel Number - IEEE 802.11b/g & IEEE 802.11n (20MHz) _2.4GHz	11
Channel Number- IEEE 802.11n (40MHz) _2.4GHz	7
Channel Number - IEEE 802.11a & IEEE 802.11n (20MHz) _5.8GHz	5
Channel Number - IEEE 802.11n (40MHz) _5.8GHz	2
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11a/g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11a/g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Antenna Gain	1.99dBi (2.4G) 3.17dBi (5G)
Channel Control	Manual
Antenna Type	PIFA antenna
Component	
USB Cable	Non-Shielded, 0.15m

ANT-TX / Rx & Bandwidth

ANT-TX / RX	SINGLE-TX		TWO-TX		RX	
	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
IEEE802.11a	✓				✓	
IEEE802.11b	✓				✓	
IEEE802.11g	✓					
IEEE802.11n			✓	✓	✓	✓

IEEE 802.11n

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) - 2.4GHz

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) - 2.4GHz

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		

IEEE 802.11a & IEEE 802.11n (20MHz) - 5.8GHz

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz						

IEEE 802.11n (40MHz) - 5.8GHz

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz				

Note:

1. This device is a Dual-band Wireless USB Adapter including 2.4GHz b/g/n and 5GHz a/n (2x2) 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. 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.
4. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 115250R-RFUSP46V01.
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 115250R-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
----	------------------

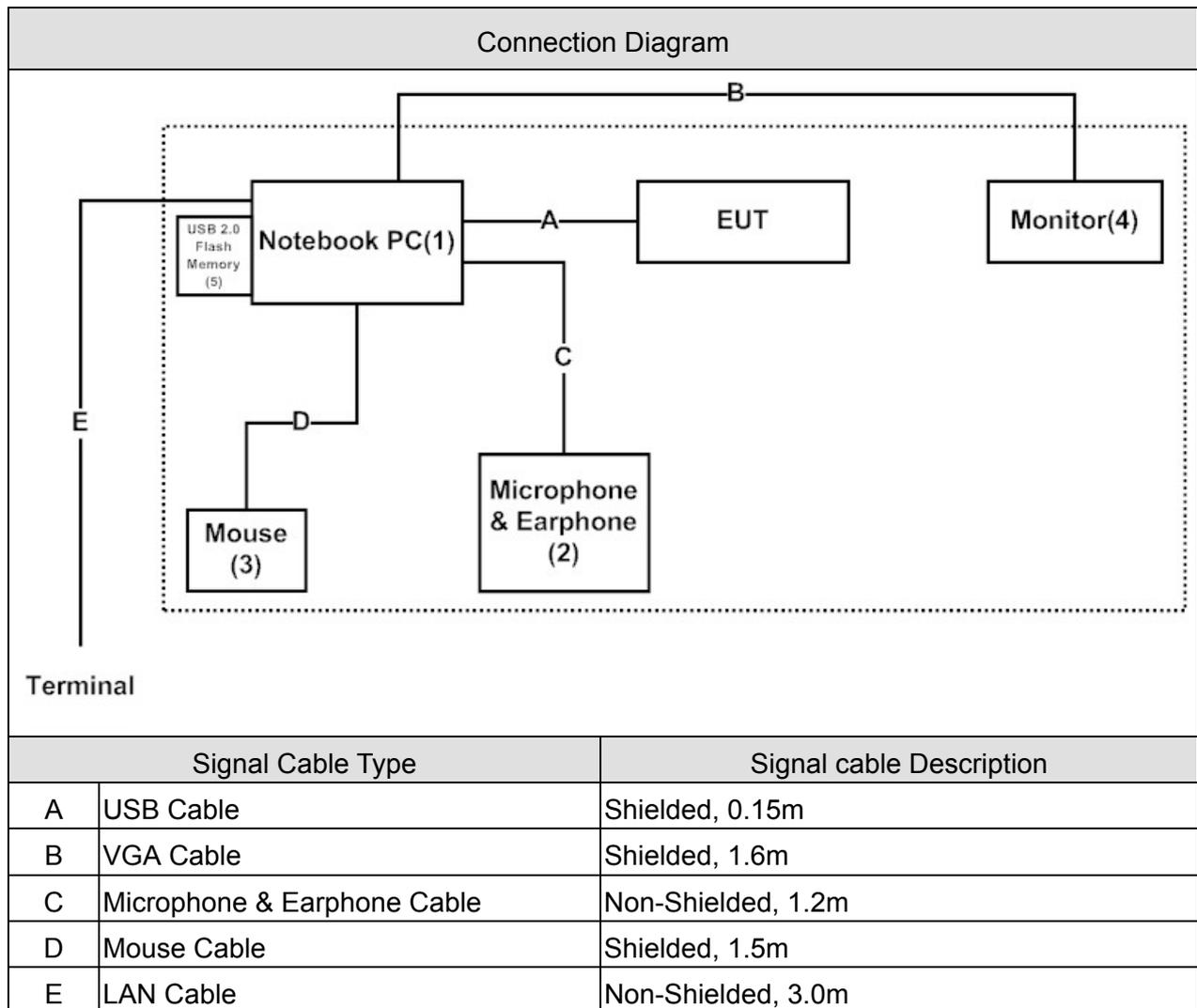
Test Items	Mode	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6/ 151	A+B	Complies
Peak Power Output	a	149/ 157/ 165	A	Complies
	b/g	1/ 6/ 11	A	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	A+B	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	A+B	Complies
Radiated Emission	a	149/ 157/ 165	A	Complies
	b/g	1/ 6/ 11	A	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	A+B	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	A+B	Complies
RF antenna conducted test	a	149/ 165	A	Complies
	b/g	1/ 11	A	Complies
	11n(20MHz)	1/ 11/ 149/ 165	A/B	Complies
	11n(40MHz)	3/ 9/ 151/ 159	A/B	Complies
Radiated Emission Band Edge	b/g	1/ 11	A	Complies
	11n(20MHz)	1/ 11	A+B	Complies
	11n(40MHz)	3/ 9	A+B	Complies
Occupied Bandwidth	a	149/ 157/ 165	A	Complies
	b/g	1/ 6/ 11	A	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	A/B	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	A/B	Complies
Power Density	a	149/ 157/ 165	A	Complies
	b/g	1/ 6/ 11	A	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	A+B	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	A+B	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	ACER	PAV70	LUSEW0D0371105 FE221601	DoC	Non-Shielded, 2.5m
2 Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
3 Mouse	Logitech	M-SBF83	HCA52200185	DoC	--
4 Monitor	CHI MEI	A170E1-09	3UC120955SA1250	DoC	Non-Shielded, 1.8m
5 USB 2.0 Flash Memory	Sony	USM2GJX	N/A	DoC	--

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5
2	Execute the RT3x7xQA.exe on the EUT
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

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	
Humidity (%RH)		25 - 75	
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	
Humidity (%RH)		25 - 75	
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	
Humidity (%RH)		25 - 75	
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	
Humidity (%RH)		25 - 75	
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: September 27, 2010 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, 2013



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2011



Site Name: Quietek Corporation

Site Address: No.75-2, 3rd Lin, Wang Ye keng, Yonghxing Tsuen,
Qionglin Shiang, Hsinchu County 307, Taiwan
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
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2. Conducted Emission

2.1. Test Equipment

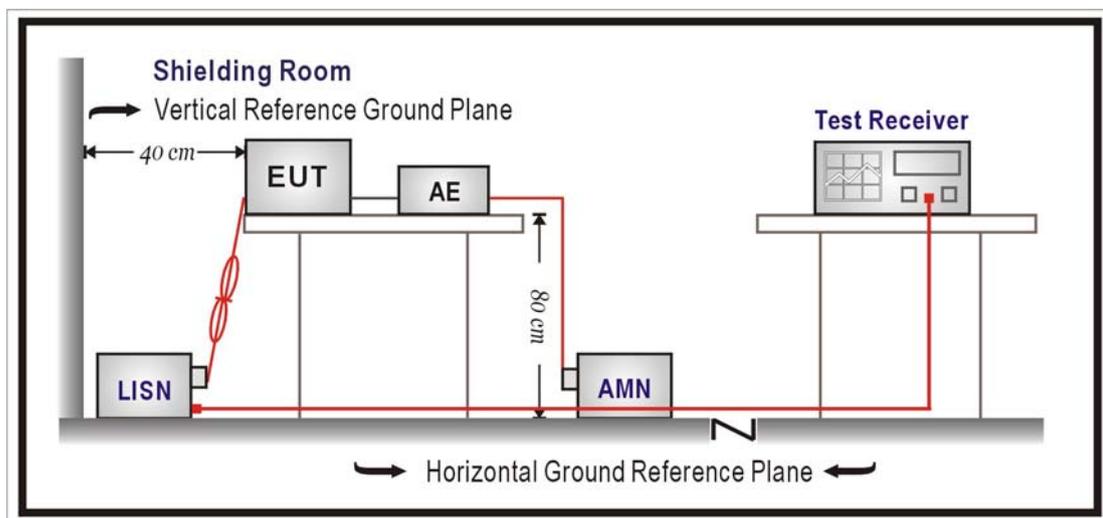
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2011/09/20
LISN	R&S	ESH3-Z5	836679/022	2012/02/10
Test Receiver	R&S	ESCS 30	825442/017	2012/01/16

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: 2009 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

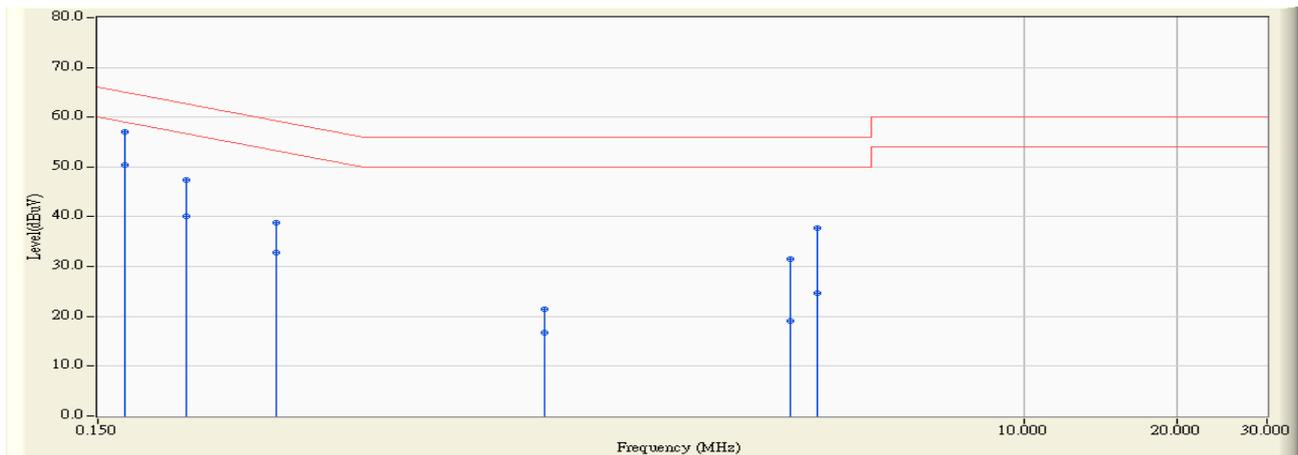
According to FCC Part 15 Subpart C Paragraph 15.207: 2010

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2011/05/26 - 11:10
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A) - Line1	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit 802.11n(40MHz)_2437MHz

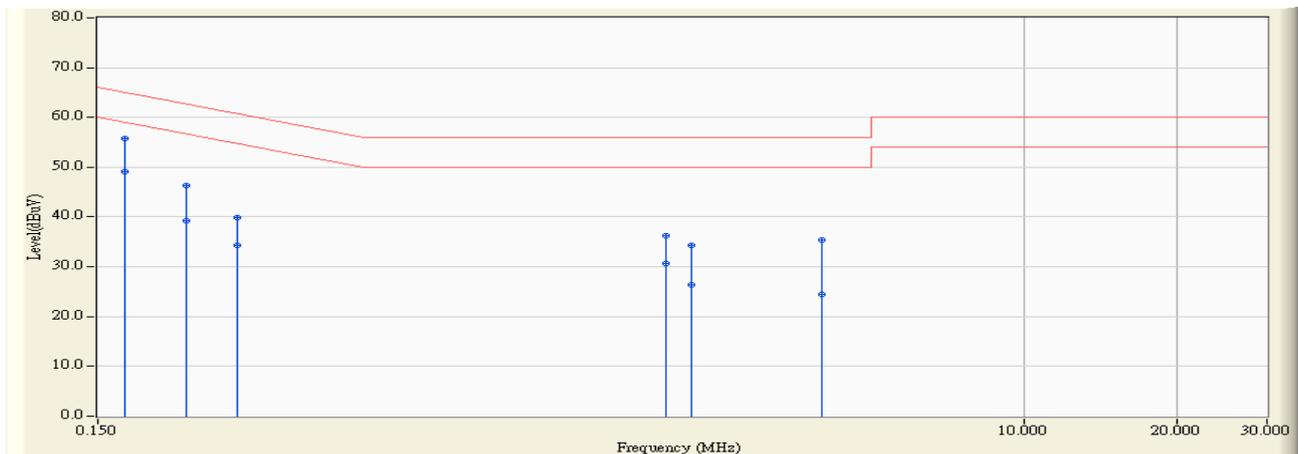


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.606	47.510	57.116	-7.868	64.984	QUASPEAK
2	*	0.170	9.606	40.700	50.306	-4.678	54.984	AVERAGE
3		0.224	9.595	37.730	47.325	-15.337	62.662	QUASPEAK
4		0.224	9.595	30.460	40.055	-12.607	52.662	AVERAGE
5		0.338	9.587	29.190	38.777	-20.487	59.265	QUASPEAK
6		0.338	9.587	23.130	32.717	-16.547	49.265	AVERAGE
7		1.134	9.853	11.670	21.523	-34.477	56.000	QUASPEAK
8		1.134	9.853	6.890	16.743	-29.257	46.000	AVERAGE
9		3.459	9.989	21.480	31.468	-24.532	56.000	QUASPEAK
10		3.459	9.989	9.160	19.148	-26.852	46.000	AVERAGE
11		3.912	10.018	27.810	37.828	-18.172	56.000	QUASPEAK
12		3.912	10.018	14.750	24.768	-21.232	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 : SR3	Time : 2011/05/26 - 13:32
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A) - Line2	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit 802.11n(40MHz)_2437MHz

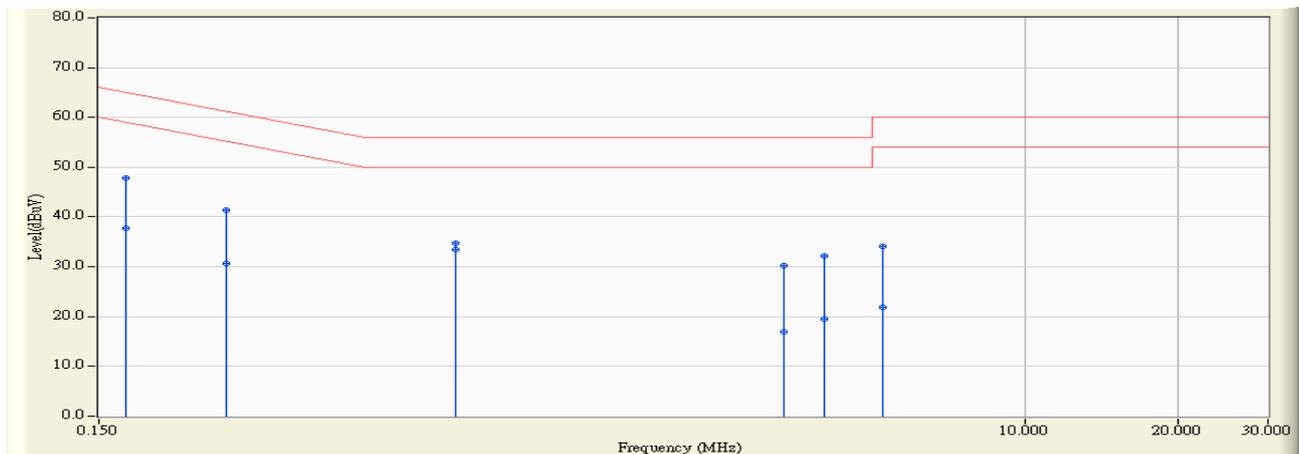


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.628	46.200	55.828	-9.156	64.983	QUASIPeAK
2	* 0.170	9.628	39.500	49.128	-5.856	54.983	AVERAGE
3	0.224	9.620	36.610	46.230	-16.431	62.661	QUASIPeAK
4	0.224	9.620	29.540	39.160	-13.501	52.661	AVERAGE
5	0.283	9.613	30.310	39.923	-20.810	60.733	QUASIPeAK
6	0.283	9.613	24.720	34.333	-16.400	50.733	AVERAGE
7	1.966	9.891	26.460	36.351	-19.649	56.000	QUASIPeAK
8	1.966	9.891	20.830	30.721	-15.279	46.000	AVERAGE
9	2.212	9.908	24.380	34.289	-21.711	56.000	QUASIPeAK
10	2.212	9.908	16.570	26.479	-19.521	46.000	AVERAGE
11	4.002	10.044	25.300	35.344	-20.656	56.000	QUASIPeAK
12	4.002	10.044	14.500	24.544	-21.456	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 : SR3	Time : 2011/05/26 - 17:18
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A) - Line1	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit 802.11n(40MHz) 5755MHz

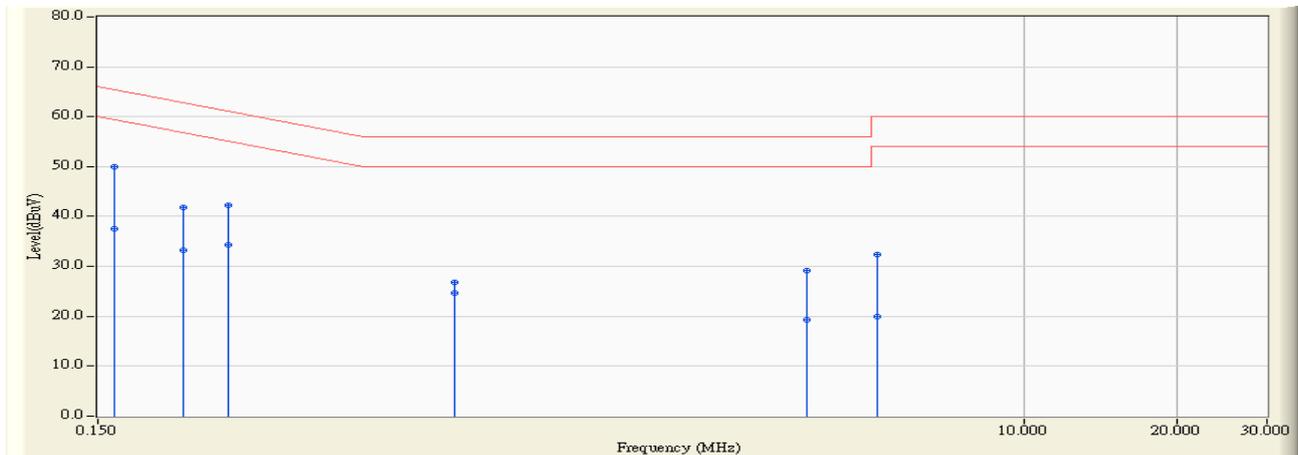


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.170	9.606	38.290	47.896	-17.087	64.983	QUASPEAK
2	0.170	9.606	28.150	37.756	-17.227	54.983	AVERAGE
3	0.267	9.587	31.810	41.397	-19.808	61.205	QUASPEAK
4	0.267	9.587	21.140	30.727	-20.478	51.205	AVERAGE
5	0.755	9.798	25.010	34.807	-21.193	56.000	QUASPEAK
6	*	9.798	23.570	33.367	-12.633	46.000	AVERAGE
7	3.334	9.980	20.240	30.220	-25.780	56.000	QUASPEAK
8	3.334	9.980	6.870	16.850	-29.150	46.000	AVERAGE
9	4.021	10.025	22.200	32.225	-23.775	56.000	QUASPEAK
10	4.021	10.025	9.510	19.535	-26.465	46.000	AVERAGE
11	5.244	10.057	24.110	34.167	-25.833	60.000	QUASPEAK
12	5.244	10.057	11.890	21.947	-28.053	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 : 2011/05/26 - 17:22
Limit : CISPR_B_00M_QP	Margin : 6
Probe : SR3_LISN(16A) - Line2	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit 802.11n(40MHz) 5755MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.629	40.250	49.879	-15.497	65.375	QUASPEAK
2		0.162	9.629	27.970	37.599	-17.777	55.375	AVERAGE
3		0.220	9.621	32.190	41.811	-20.996	62.807	QUASPEAK
4		0.220	9.621	23.580	33.201	-19.606	52.807	AVERAGE
5		0.271	9.614	32.580	42.194	-18.890	61.084	QUASPEAK
6		0.271	9.614	24.650	34.264	-16.820	51.084	AVERAGE
7		0.755	9.802	17.090	26.892	-29.108	56.000	QUASPEAK
8		0.755	9.802	14.780	24.582	-21.418	46.000	AVERAGE
9		3.732	10.024	19.230	29.254	-26.746	56.000	QUASPEAK
10		3.732	10.024	9.350	19.374	-26.626	46.000	AVERAGE
11		5.119	10.079	22.210	32.289	-27.711	60.000	QUASPEAK
12		5.119	10.079	9.900	19.979	-30.021	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:

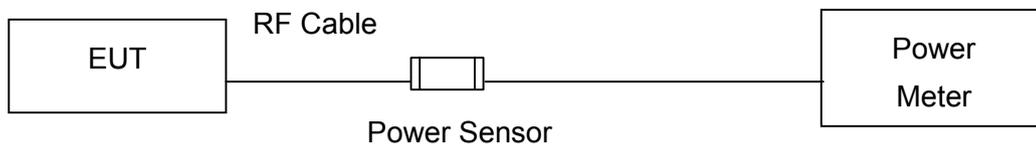
Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2012/01/04
Power Sensor	Agilent	N1921A	MY45241670	2012/01/04

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: 2010

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.78	1Watt= 30 dBm	Pass
6	2437	21.76	1Watt= 30 dBm	Pass
11	2462	21.68	1Watt= 30 dBm	Pass

The worst emission of data rate is 1Mbps.

Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412.00	21.78	--	--	-	1Watt= 30 dBm
6	2437.00	21.76	21.76	21.5	21.75	1Watt= 30 dBm
11	2462.00	21.68	--	--	-	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.81	1Watt= 30 dBm	Pass
6	2437	23.76	1Watt= 30 dBm	Pass
11	2462	23.65	1Watt= 30 dBm	Pass

The worst emission of data rate is 6Mbps.

Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412.00	23.81	--	--	-	--	--	-	1Watt= 30 dBm
6	2437.00	23.76	23.74	23.63	23.71	23.62	23.73	23.71	1Watt= 30 dBm
11	2462.00	23.65	--	--	-	--	--	-	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT A)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.80	1Watt= 30 dBm	Pass
6	2437	23.82	1Watt= 30 dBm	Pass
11	2462	23.79	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	23.80	--	--	-	--	--	-	--	30dBm
6	2437	23.82	23.75	23.73	23.74	23.70	23.63	23.69	23.68	30dBm
11	2462	23.79	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	25.76	1Watt= 30 dBm	Pass
6	2437	25.86	1Watt= 30 dBm	Pass
11	2462	26.44	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	25.76	--	--	-	--	--	-	--	30dBm
6	2437	25.86	25.70	25.66	25.58	25.27	25.18	25.40	25.67	30dBm
11	2462	26.44	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	27.90	1Watt= 30 dBm	Pass
6	2437	27.97	1Watt= 30 dBm	Pass
11	2462	28.32	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	27.90	--	--	-	--	--	-	--	30dBm
6	2437	27.97	27.84	27.81	27.77	27.57	27.48	27.64	27.80	30dBm
11	2462	28.32	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT A)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	23.85	1Watt= 30 dBm	Pass
6	2437	23.86	1Watt= 30 dBm	Pass
9	2452	24.17	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	23.85	--	--	-	--	--	-	--	30dBm
6	2437	23.86	23.82	23.75	23.73	23.53	23.74	23.41	23.77	30dBm
9	2452	24.17	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	26.39	1Watt= 30 dBm	Pass
6	2437	26.54	1Watt= 30 dBm	Pass
9	2452	26.00	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	26.39	--	--	-	--	--	-	--	30dBm
6	2437	26.54	26.47	26.53	26.48	26.45	26.33	26.48	26.50	30dBm
9	2452	26.00	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	28.31	1Watt= 30 dBm	Pass
6	2437	28.41	1Watt= 30 dBm	Pass
9	2452	28.19	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

		Peak Power Output (dBm)								Required Limit
MCS Index		8	9	10	11	12	13	14	15	
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	28.31	--	--	-	--	--	-	--	30dBm
6	2437	28.41	28.35	28.37	28.33	28.24	28.24	28.22	28.36	30dBm
9	2452	28.19	--	--	-	--	--	-	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	21.79	1Watt= 30 dBm	Pass
157	5785	21.88	1Watt= 30 dBm	Pass
165	5825	21.68	1Watt= 30 dBm	Pass

The worst emission of data rate is 6Mbps.

Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
149	5745	21.79	--	--	--	--	--	--	1Watt= 30 dBm
157	5785	21.88	22.01	22.05	22.07	21.98	21.97	22.15	1Watt= 30 dBm
165	5825	21.68	--	--	--	--	--	--	1Watt= 30 dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT A)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	21.13	1Watt= 30 dBm	Pass
157	5785	21.45	1Watt= 30 dBm	Pass
165	5825	21.24	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	21.13	--	--	--	--	--	--	--	30dBm
157	5785	21.45	21.22	21.18	21.2	21.08	21.01	21.32	21.34	30dBm
165	5825	21.24	--	--	--	--	--	--	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	21.79	1Watt= 30 dBm	Pass
157	5785	22.01	1Watt= 30 dBm	Pass
165	5825	21.80	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	21.79	--	--	--	--	--	--	--	30dBm
157	5785	22.01	21.89	21.88	21.79	21.71	21.70	21.68	21.67	30dBm
165	5825	21.80	--	--	--	--	--	--	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE 802.11n 20MHz (ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.48	1Watt= 30 dBm	Pass
157	5785	24.75	1Watt= 30 dBm	Pass
165	5825	24.54	1Watt= 30 dBm	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	24.48	--	--	--	--	--	--	--	30dBm
157	5785	24.75	24.58	24.55	24.52	24.42	24.38	24.51	24.52	30dBm
165	5825	24.54	--	--	--	--	--	--	--	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT A)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	21.69	1Watt= 30 dBm	Pass
159	5795	22.09	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	21.69	21.61	21.55	21.61	21.55	21.58	21.44	21.58	30dBm
159	5795	22.09	22.01	20.07	22.07	22.01	22.02	22.05	22.07	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	22.05	1Watt= 30 dBm	Pass
159	5795	22.02	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	22.05	22.01	21.98	21.11	21.87	21.79	21.44	21.50	30dBm
159	5795	22.02	22.01	21.89	21.05	21.79	22.01	21.92	21.83	30dBm

Product	Dual-band Wireless USB Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2011/05/30	Test Site	SR7

IEEE802.11n 40MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	24.88	1Watt= 30 dBm	Pass
159	5795	25.07	1Watt= 30 dBm	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	24.88	24.82	24.78	24.38	24.72	24.70	24.45	24.55	30dBm
159	5795	25.07	25.02	24.08	24.60	24.91	25.03	25.00	24.96	30dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

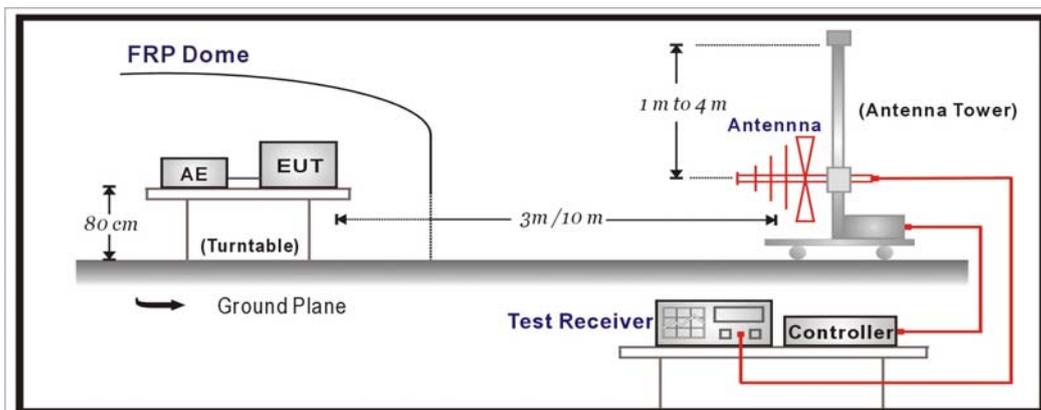
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2011/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2012/02/24
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2011/12/16
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2012/03/10
PSA Series Spectrum analyzer	Agilent	E4440A	MY46187335	2012/01/06
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/03/21

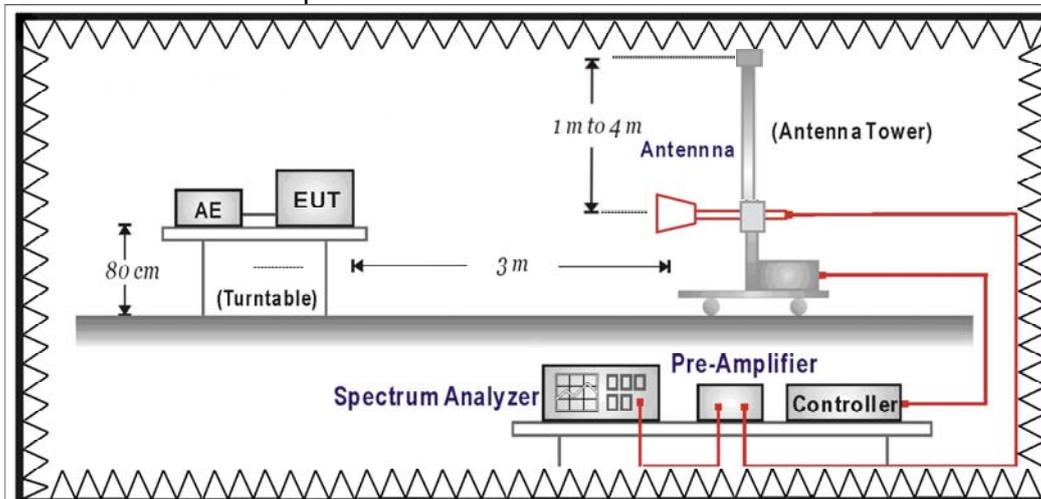
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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: 2009 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: 2009 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 15.209: 2010

4.6. Uncertainty

The measurement uncertainty

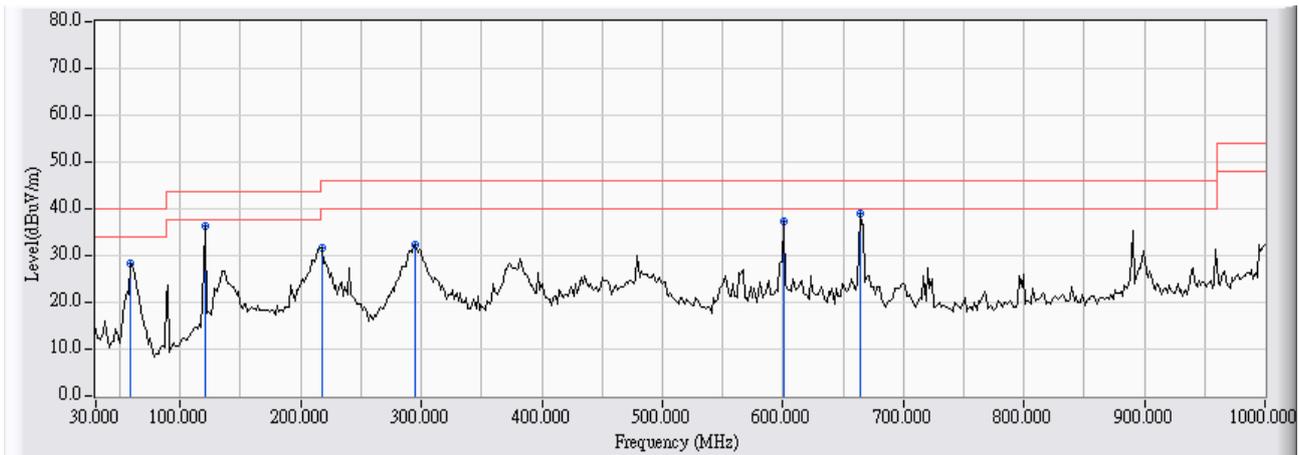
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2011/05/20 - 18:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11b- 2437MHz

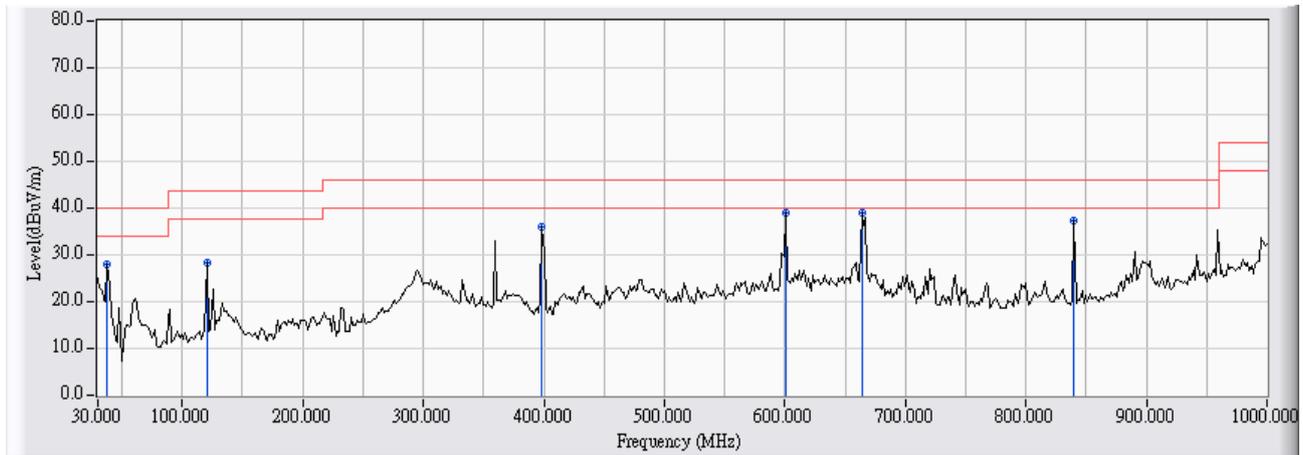


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	59.100	-18.063	46.405	28.342	-11.658	40.000	QUASPEAK
2	120.533	-12.220	48.515	36.295	-7.205	43.500	QUASPEAK
3	217.533	-13.835	45.412	31.577	-14.423	46.000	QUASPEAK
4	295.133	-10.750	42.986	32.236	-13.764	46.000	QUASPEAK
5	600.683	-5.025	42.242	37.216	-8.784	46.000	QUASPEAK
6	* 663.733	-4.679	43.764	39.085	-6.915	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 : 2011/05/20 - 18:45
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11b- 2437MHz

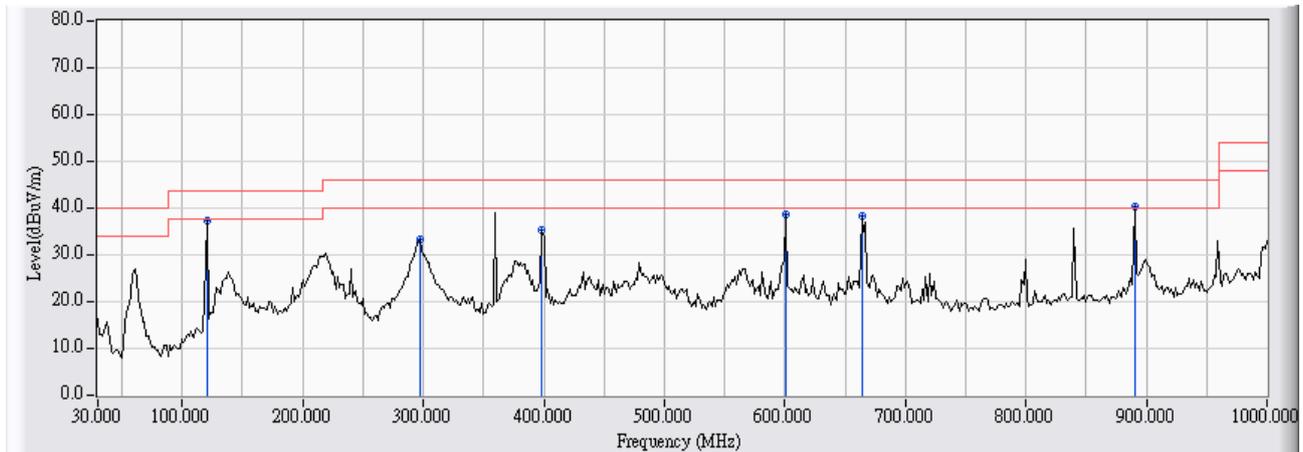


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-12.172	40.050	27.879	-12.121	40.000	QUASPEAK
2	120.533	-12.220	40.528	28.308	-15.192	43.500	QUASPEAK
3	398.600	-7.909	43.950	36.041	-9.959	46.000	QUASPEAK
4	* 600.683	-5.025	44.073	39.047	-6.953	46.000	QUASPEAK
5	663.733	-4.679	43.544	38.865	-7.135	46.000	QUASPEAK
6	839.950	-3.169	40.348	37.179	-8.821	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 : 2011/05/20 - 18:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11g- 2437MHz

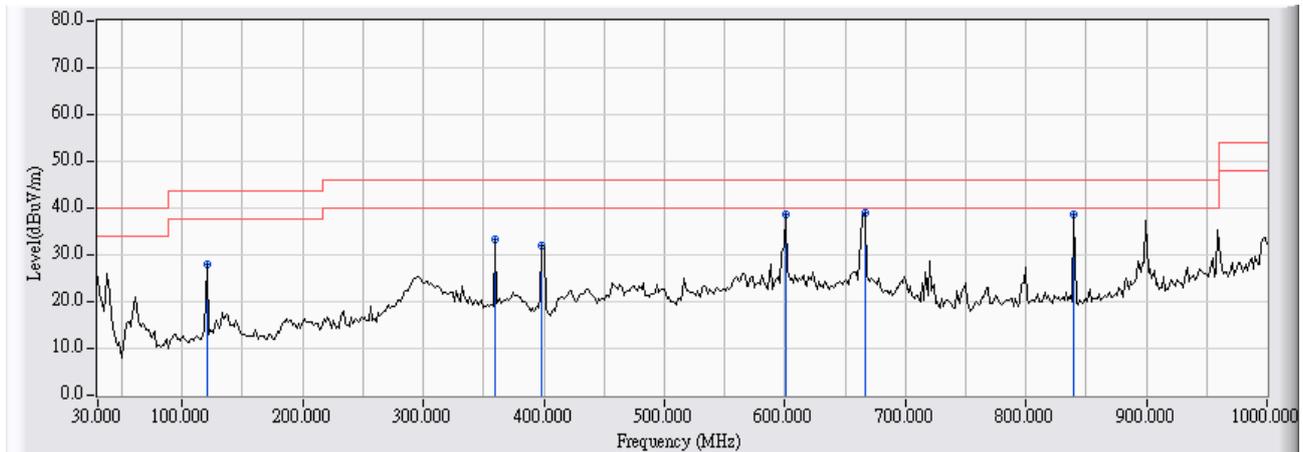


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	49.584	37.364	-6.136	43.500	QUASPEAK
2	296.750	-10.725	44.144	33.420	-12.580	46.000	QUASPEAK
3	398.600	-7.909	43.264	35.355	-10.645	46.000	QUASPEAK
4	600.683	-5.025	43.654	38.628	-7.372	46.000	QUASPEAK
5	663.733	-4.679	43.010	38.331	-7.669	46.000	QUASPEAK
6	* 890.067	-2.953	43.450	40.498	-5.502	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 : 2011/05/20 - 18:57
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11g- 2437MHz

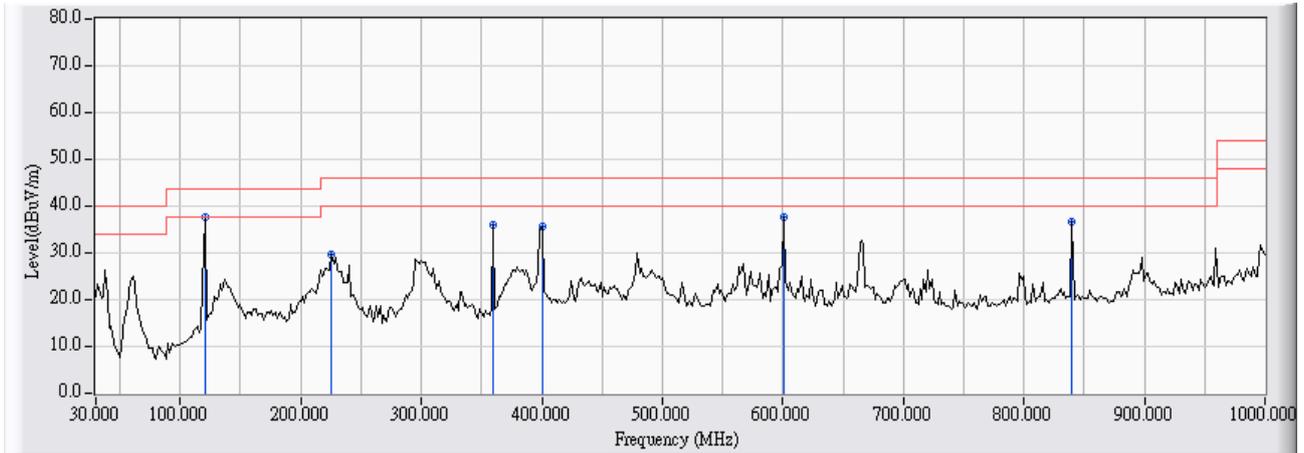


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	40.337	28.117	-15.383	43.500	QUASPEAK
2	359.800	-8.990	42.454	33.463	-12.537	46.000	QUASPEAK
3	398.600	-7.909	39.981	32.072	-13.928	46.000	QUASPEAK
4	600.683	-5.025	43.829	38.803	-7.197	46.000	QUASPEAK
5	* 666.967	-4.666	43.716	39.050	-6.950	46.000	QUASPEAK
6	839.950	-3.169	41.795	38.626	-7.374	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 : 2011/05/20 - 19:04
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11n(20MHz)- 2437MHz

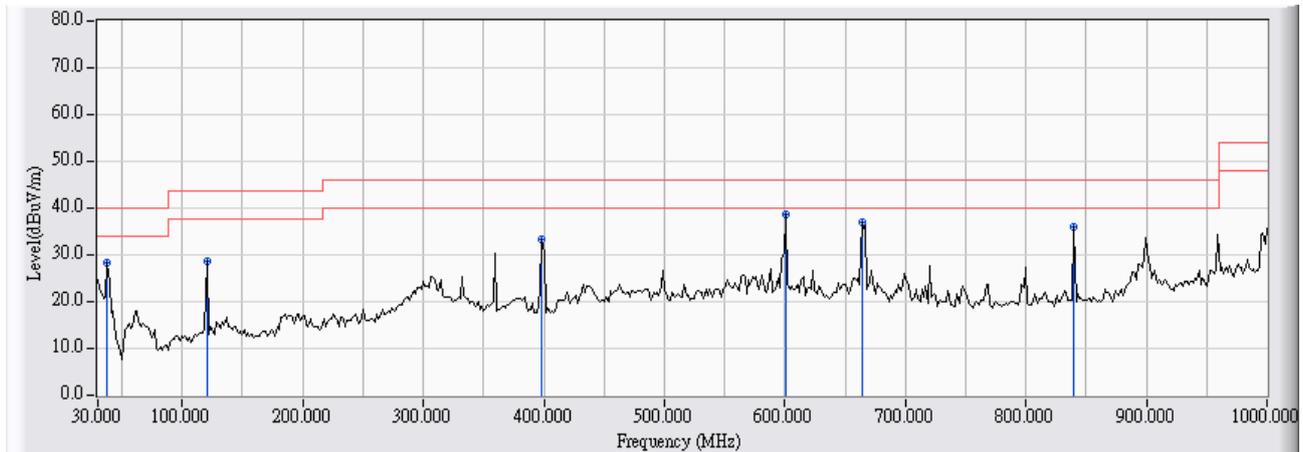


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.533	-12.220	49.974	37.754	-5.746	43.500	QUASPEAK
2		225.617	-13.245	42.757	29.511	-16.489	46.000	QUASPEAK
3		359.800	-8.990	44.924	35.933	-10.067	46.000	QUASPEAK
4		400.217	-7.868	43.384	35.517	-10.483	46.000	QUASPEAK
5		600.683	-5.025	42.711	37.685	-8.315	46.000	QUASPEAK
6		839.950	-3.169	39.768	36.599	-9.401	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 : 2011/05/20 - 19:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11n(20MHz)- 2437MHz

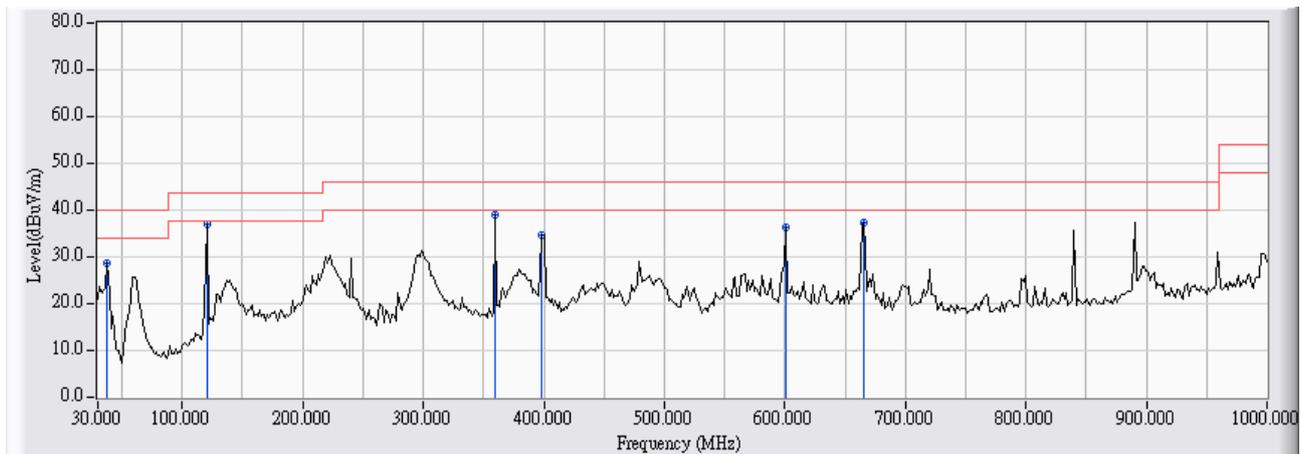


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-12.172	40.501	28.330	-11.670	40.000	QUASPEAK
2	120.533	-12.220	40.759	28.539	-14.961	43.500	QUASPEAK
3	398.600	-7.909	41.236	33.327	-12.673	46.000	QUASPEAK
4	* 600.683	-5.025	43.832	38.806	-7.194	46.000	QUASPEAK
5	663.733	-4.679	41.696	37.017	-8.983	46.000	QUASPEAK
6	839.950	-3.169	39.112	35.943	-10.057	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 : 2011/05/20 - 19:15
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11n(40MHz)- 2437MHz

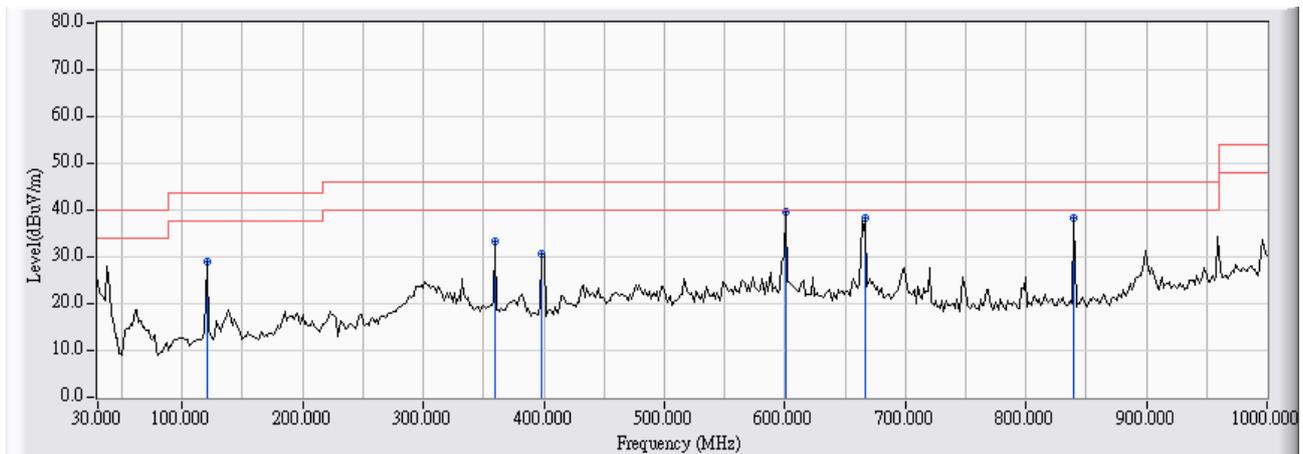


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	38.083	-12.172	40.743	28.572	-11.428	40.000	QUASPEAK
2	* 120.533	-12.220	49.376	37.156	-6.344	43.500	QUASPEAK
3	359.800	-8.990	47.982	38.991	-7.009	46.000	QUASPEAK
4	398.600	-7.909	42.507	34.598	-11.402	46.000	QUASPEAK
5	600.683	-5.025	41.421	36.395	-9.605	46.000	QUASPEAK
6	665.350	-4.673	41.884	37.211	-8.789	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 : 2011/05/20 - 19:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Note : Mode 1: Transmit- 802.11n(40MHz)- 2437MHz

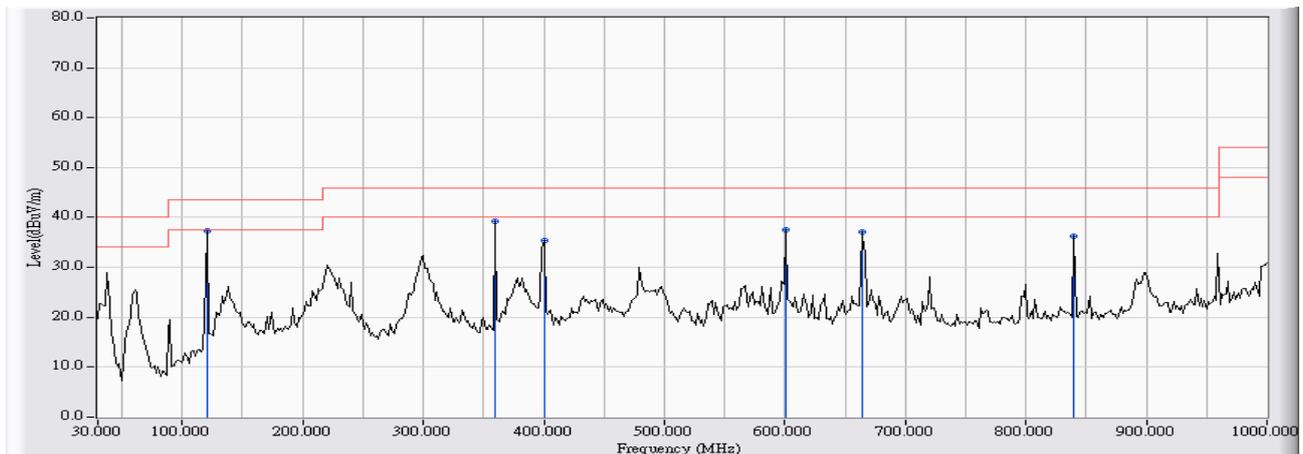


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	41.227	29.007	-14.493	43.500	QUASPEAK
2	359.800	-8.990	42.305	33.314	-12.686	46.000	QUASPEAK
3	398.600	-7.909	38.654	30.745	-15.255	46.000	QUASPEAK
4	* 600.683	-5.025	44.647	39.621	-6.379	46.000	QUASPEAK
5	666.967	-4.666	43.025	38.359	-7.641	46.000	QUASPEAK
6	839.950	-3.169	41.367	38.198	-7.802	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 : 2011/05/20 - 19:27
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11a- 5785MHz

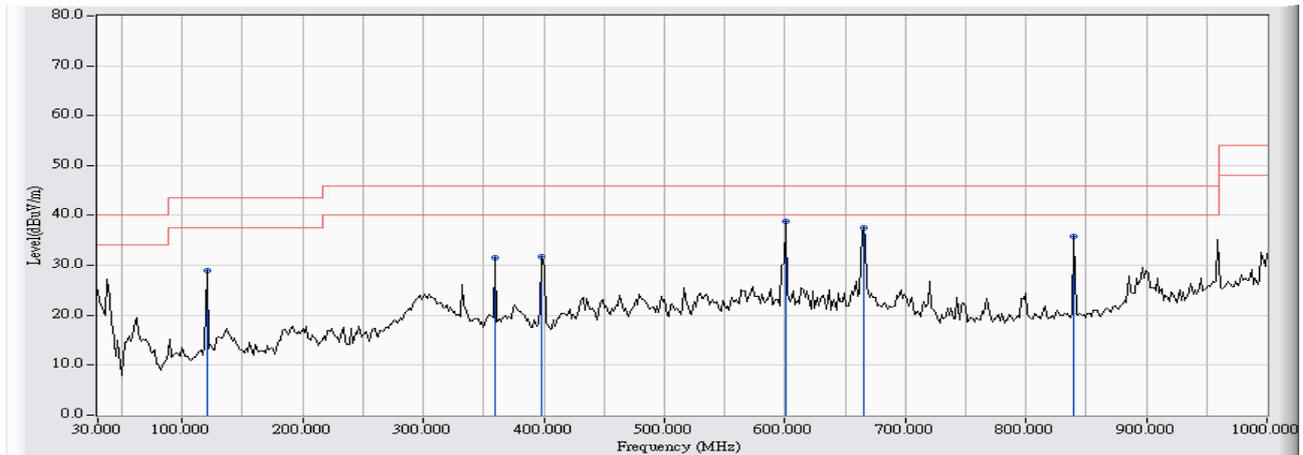


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	120.533	-12.220	49.455	37.235	-6.265	43.500	QUASPEAK
2		359.800	-8.990	48.298	39.307	-6.693	46.000	QUASPEAK
3		400.217	-7.868	43.296	35.429	-10.571	46.000	QUASPEAK
4		600.683	-5.025	42.584	37.558	-8.442	46.000	QUASPEAK
5		663.733	-4.679	41.849	37.170	-8.830	46.000	QUASPEAK
6		839.950	-3.169	39.389	36.220	-9.780	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 : 2011/05/20 - 19:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11a- 5785MHz

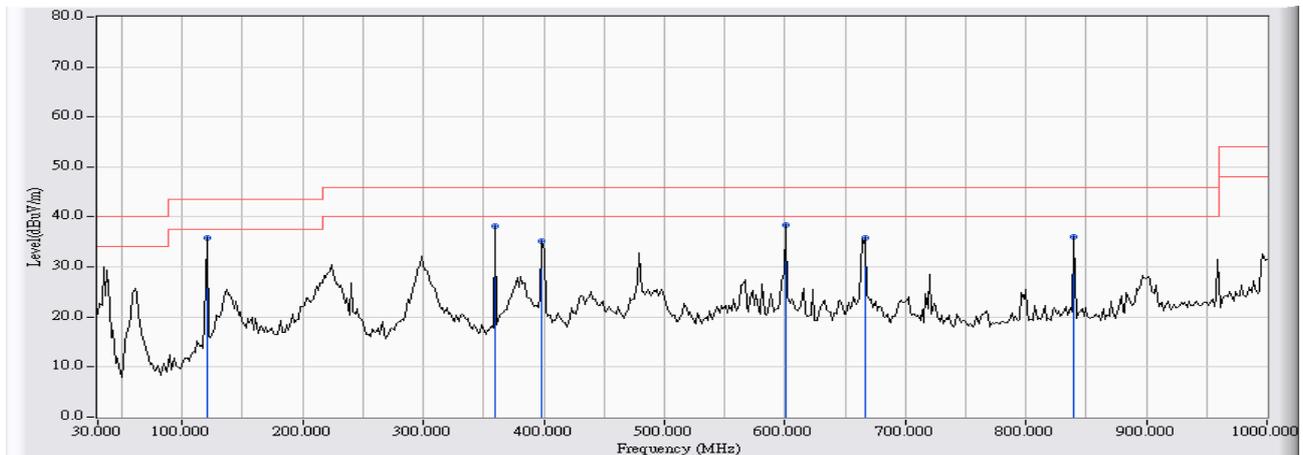


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	41.268	29.048	-14.452	43.500	QUASPEAK
2	359.800	-8.990	40.437	31.446	-14.554	46.000	QUASPEAK
3	398.600	-7.909	39.640	31.731	-14.269	46.000	QUASPEAK
4	* 600.683	-5.025	43.861	38.835	-7.165	46.000	QUASPEAK
5	665.350	-4.673	42.137	37.464	-8.536	46.000	QUASPEAK
6	839.950	-3.169	39.069	35.900	-10.100	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 : 2011/05/20 - 19:50
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11n(20MHz)- 5785MHz

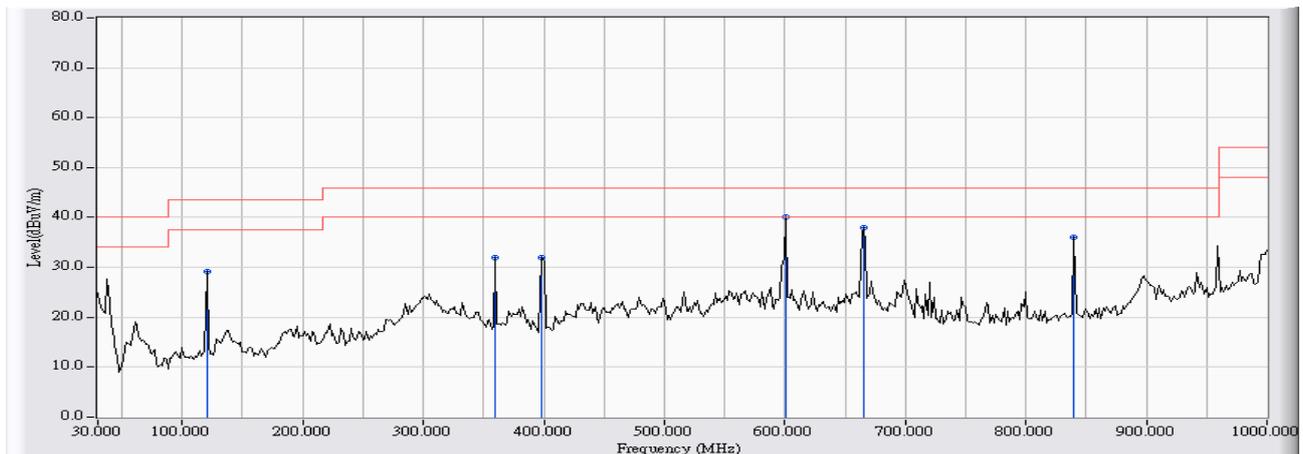


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	48.038	35.818	-7.682	43.500	QUASPEAK
2	359.800	-8.990	47.106	38.115	-7.885	46.000	QUASPEAK
3	398.600	-7.909	43.076	35.167	-10.833	46.000	QUASPEAK
4	* 600.683	-5.025	43.375	38.349	-7.651	46.000	QUASPEAK
5	666.967	-4.666	40.564	35.898	-10.102	46.000	QUASPEAK
6	839.950	-3.169	39.224	36.055	-9.945	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 : 2011/05/20 - 19:54
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11n(20MHz)- 5785MHz

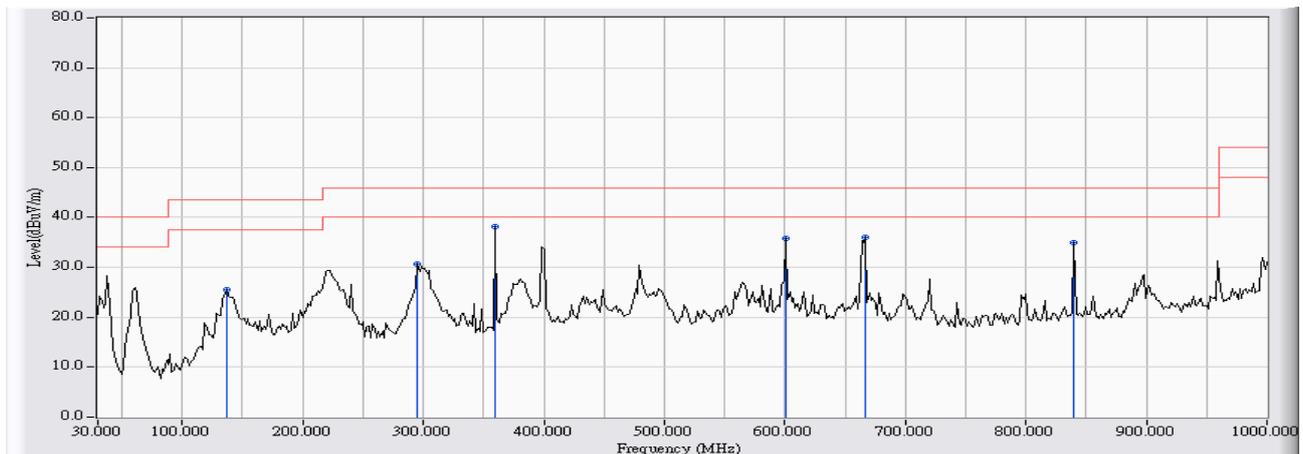


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	41.349	29.129	-14.371	43.500	QUASPEAK
2	359.800	-8.990	40.929	31.938	-14.062	46.000	QUASPEAK
3	398.600	-7.909	39.892	31.983	-14.017	46.000	QUASPEAK
4	* 600.683	-5.025	45.052	40.026	-5.974	46.000	QUASPEAK
5	665.350	-4.673	42.660	37.987	-8.013	46.000	QUASPEAK
6	839.950	-3.169	39.114	35.945	-10.055	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 : 2011/05/20 - 20:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11n(40MHz)- 5755MHz

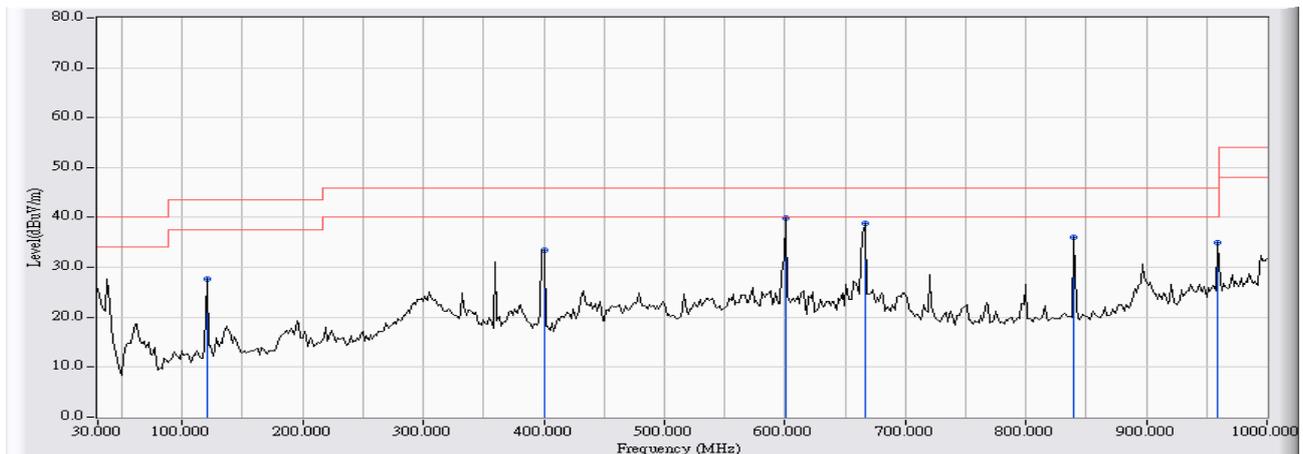


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	136.700	-13.155	38.667	25.512	-17.988	43.500	QUASPEAK
2	295.133	-10.750	41.323	30.573	-15.427	46.000	QUASPEAK
3	* 359.800	-8.990	47.256	38.265	-7.735	46.000	QUASPEAK
4	600.683	-5.025	40.898	35.872	-10.128	46.000	QUASPEAK
5	666.967	-4.666	40.789	36.123	-9.877	46.000	QUASPEAK
6	839.950	-3.169	38.184	35.015	-10.985	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 : 2011/05/20 - 20:07
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G(2010-12) - VERTICAL	Power : DC 5V (Power by PC)
EUT: Dual-band Wireless USB Adapter	Mode 1: Transmit- 802.11n(40MHz)- 5755MHz



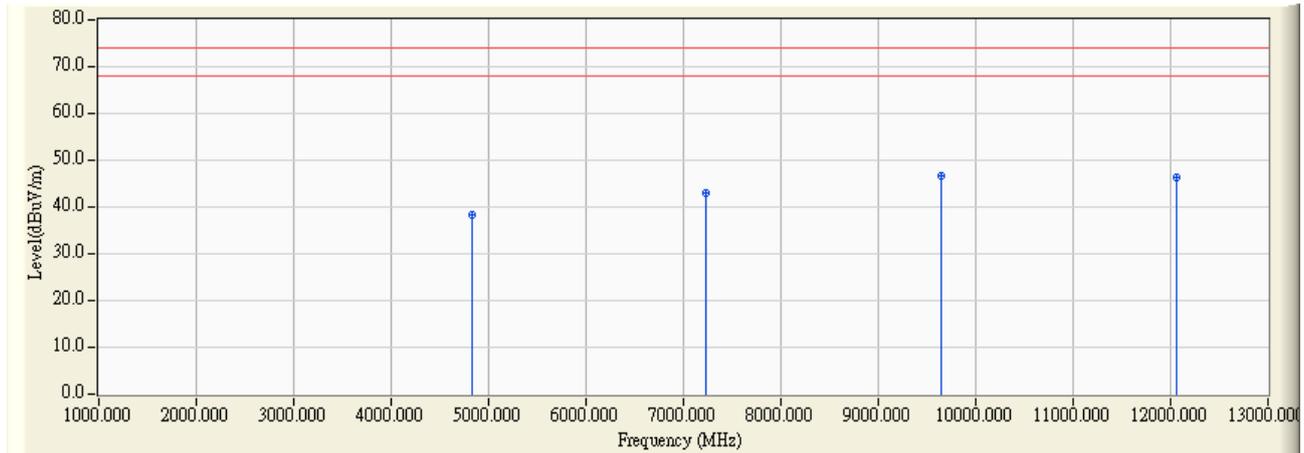
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	120.533	-12.220	39.849	27.629	-15.871	43.500	QUASPEAK
2	400.217	-7.868	41.232	33.365	-12.635	46.000	QUASPEAK
3	* 600.683	-5.025	44.847	39.821	-6.179	46.000	QUASPEAK
4	666.967	-4.666	43.387	38.721	-7.279	46.000	QUASPEAK
5	839.950	-3.169	39.197	36.028	-9.972	46.000	QUASPEAK
6	959.583	-2.367	37.311	34.944	-11.056	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.

Above 1GHz Spurious

Site : CB1	Time : 2011/06/11 - 15:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11b

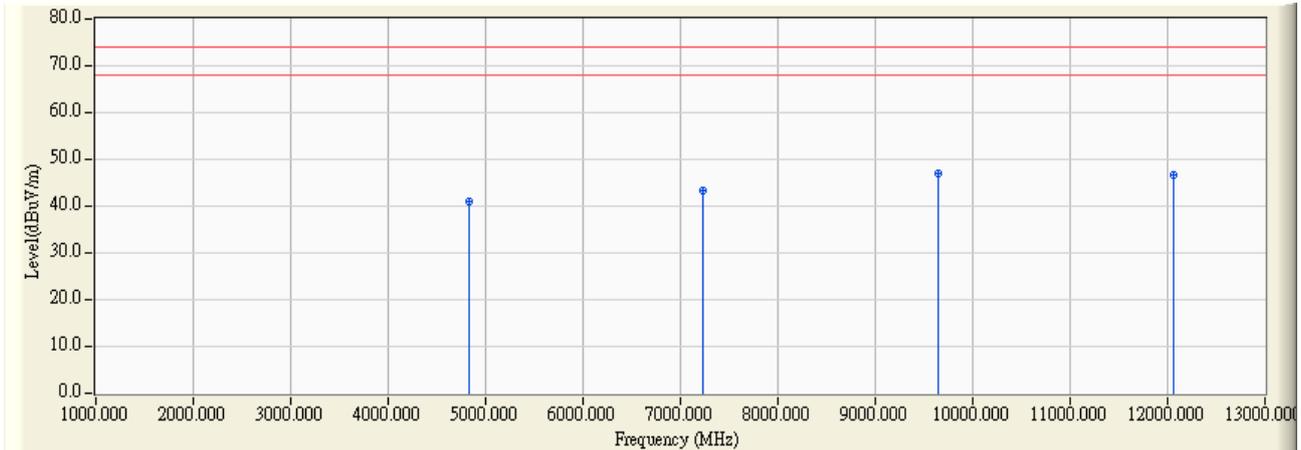


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.080	-1.503	39.780	38.278	-35.722	74.000	54.000	PEAK
2	7236.120	4.758	38.080	42.838	-31.162	74.000	54.000	PEAK
3	* 9648.240	8.205	38.550	46.756	-27.244	74.000	54.000	PEAK
4	12059.920	10.225	36.060	46.285	-27.715	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11b

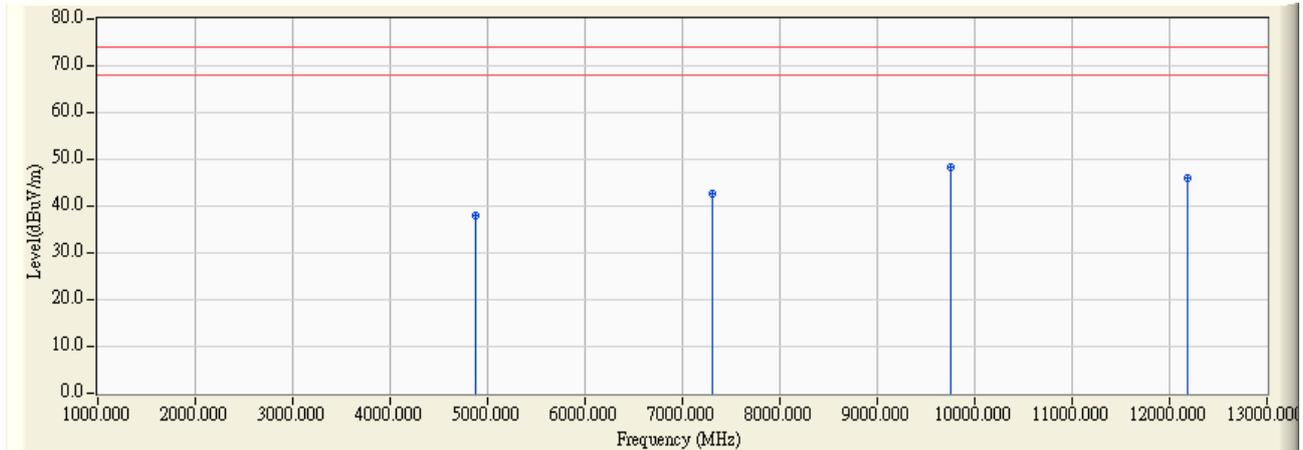


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4823.880	-1.503	42.450	40.947	-33.053	74.000	54.000	PEAK
2	7236.680	4.758	38.480	43.239	-30.761	74.000	54.000	PEAK
3	* 9648.600	8.208	38.860	47.068	-26.932	74.000	54.000	PEAK
4	12059.880	10.225	36.480	46.705	-27.295	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:47
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11b

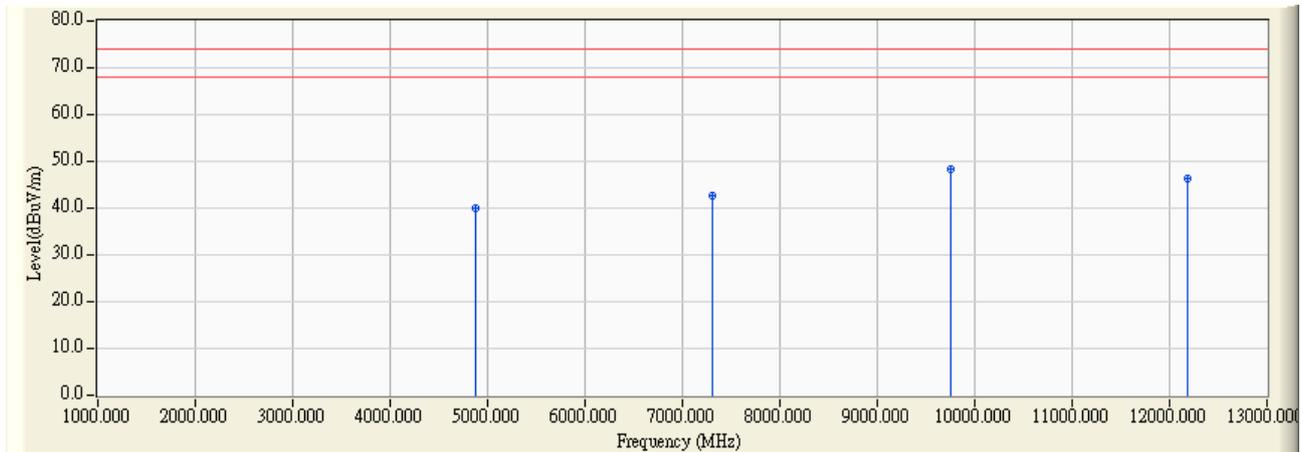


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.040	-1.395	39.400	38.006	-35.994	74.000	54.000	PEAK
2	7311.960	4.897	37.830	42.727	-31.273	74.000	54.000	PEAK
3	* 9747.880	8.848	39.600	48.449	-25.551	74.000	54.000	PEAK
4	12185.160	10.238	35.660	45.898	-28.102	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11b

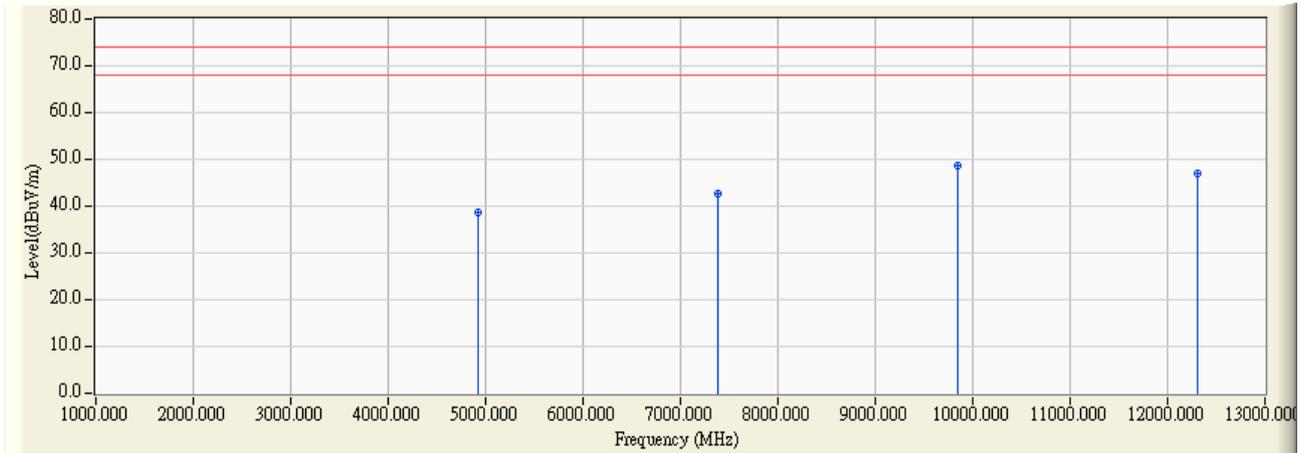


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.240	-1.394	41.350	39.956	-34.044	74.000	54.000	PEAK
2	7310.880	4.895	37.690	42.585	-31.415	74.000	54.000	PEAK
3	* 9747.880	8.848	39.540	48.389	-25.611	74.000	54.000	PEAK
4	12185.200	10.238	36.170	46.408	-27.592	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b

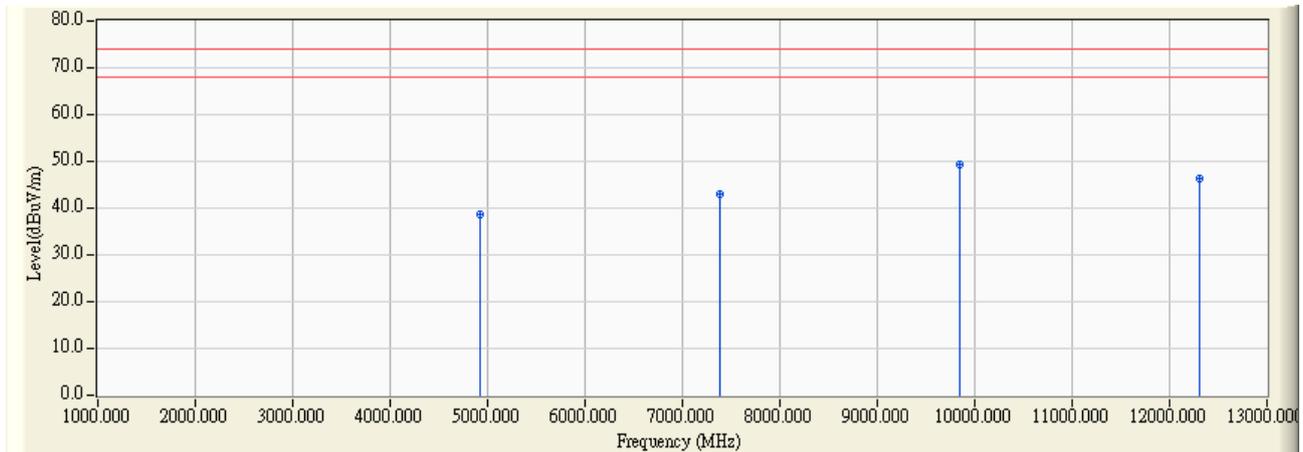


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4923.800	-1.287	39.940	38.653	-35.347	74.000	54.000	PEAK
2	7386.160	5.033	37.490	42.523	-31.477	74.000	54.000	PEAK
3	* 9848.360	9.497	39.190	48.687	-25.313	74.000	54.000	PEAK
4	12310.840	10.250	36.710	46.960	-27.040	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b

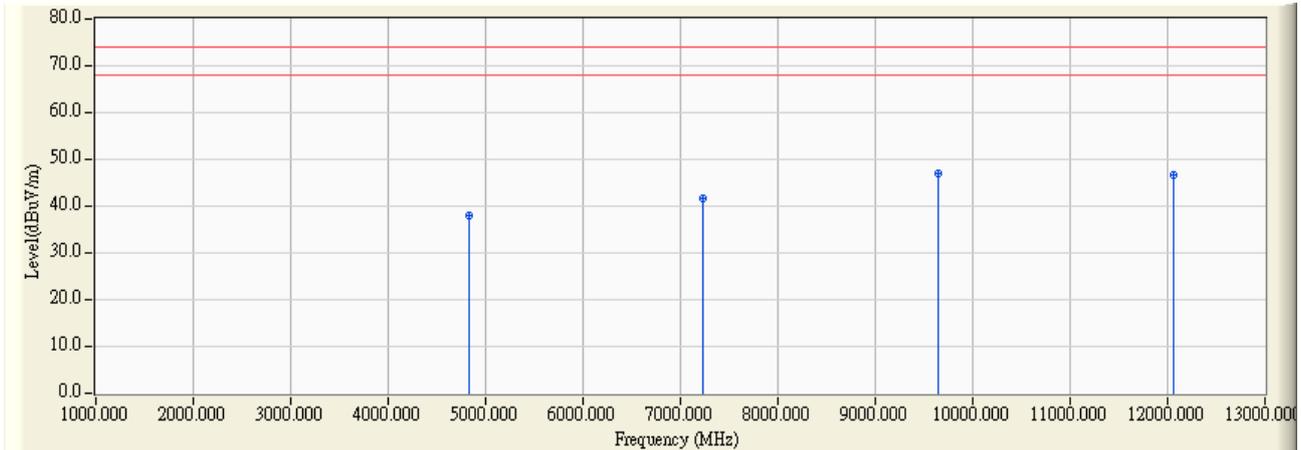


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4923.920	-1.287	40.090	38.803	-35.197	74.000	54.000	PEAK
2	7385.840	5.033	38.040	43.072	-30.928	74.000	54.000	PEAK
3	* 9848.400	9.497	39.720	49.217	-24.783	74.000	54.000	PEAK
4	12310.120	10.250	36.010	46.260	-27.740	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

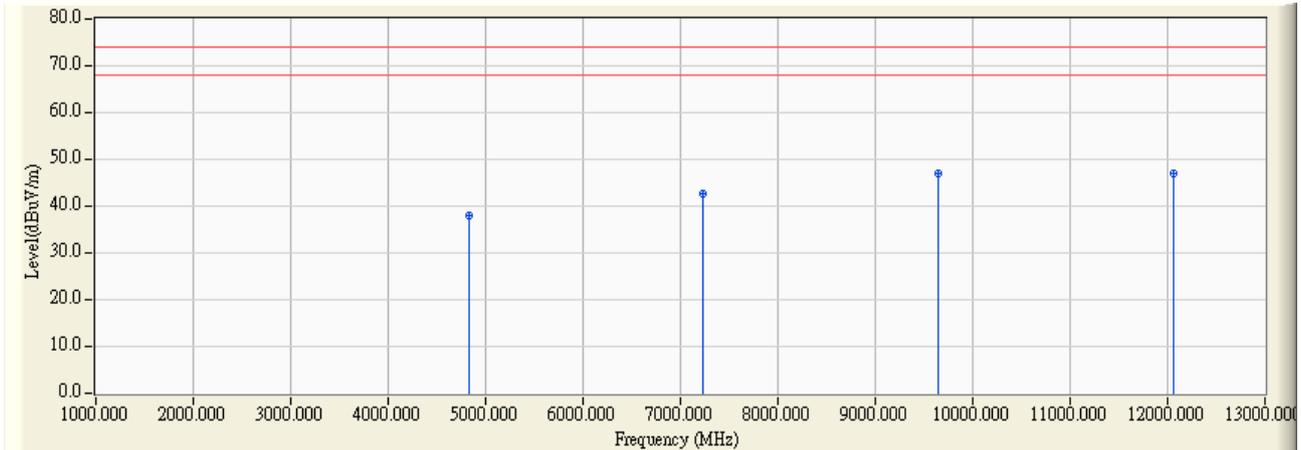


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4823.920	-1.503	39.360	37.857	-36.143	74.000	54.000	PEAK
2	7235.720	4.757	37.010	41.767	-32.233	74.000	54.000	PEAK
3	* 9648.080	8.204	38.960	47.165	-26.835	74.000	54.000	PEAK
4	12059.680	10.225	36.480	46.705	-27.295	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

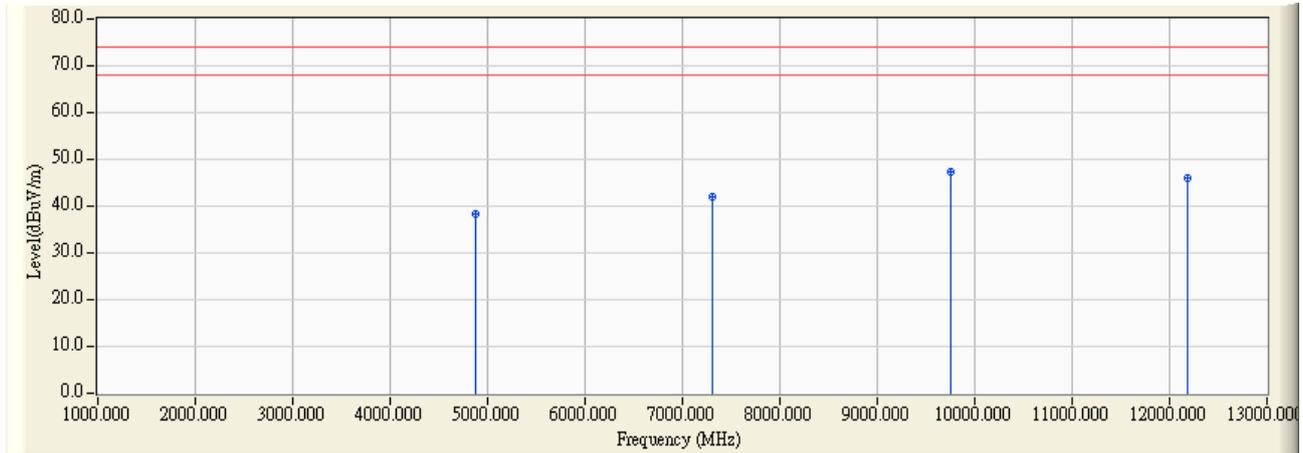


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4823.800	-1.503	39.620	38.117	-35.883	74.000	54.000	PEAK
2	7235.800	4.758	37.930	42.687	-31.313	74.000	54.000	PEAK
3	* 9648.560	8.207	38.860	47.068	-26.932	74.000	54.000	PEAK
4	12060.320	10.225	36.790	47.015	-26.985	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11g

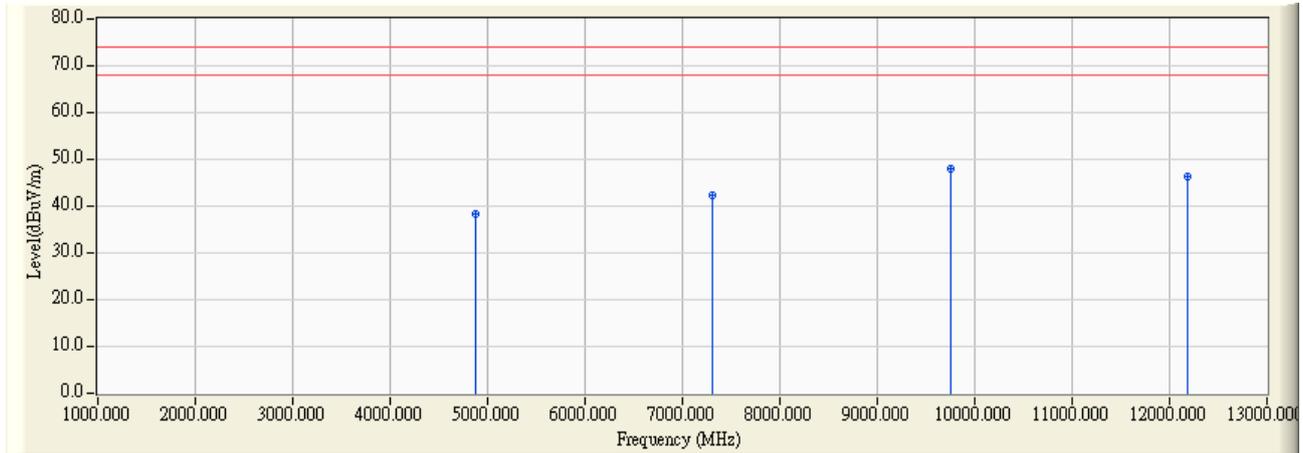


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4873.520	-1.396	39.590	38.194	-35.806	74.000	54.000	PEAK
2	7311.120	4.896	37.130	42.025	-31.975	74.000	54.000	PEAK
3	* 9748.400	8.852	38.480	47.332	-26.668	74.000	54.000	PEAK
4	12185.200	10.238	35.890	46.128	-27.872	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 15:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11g

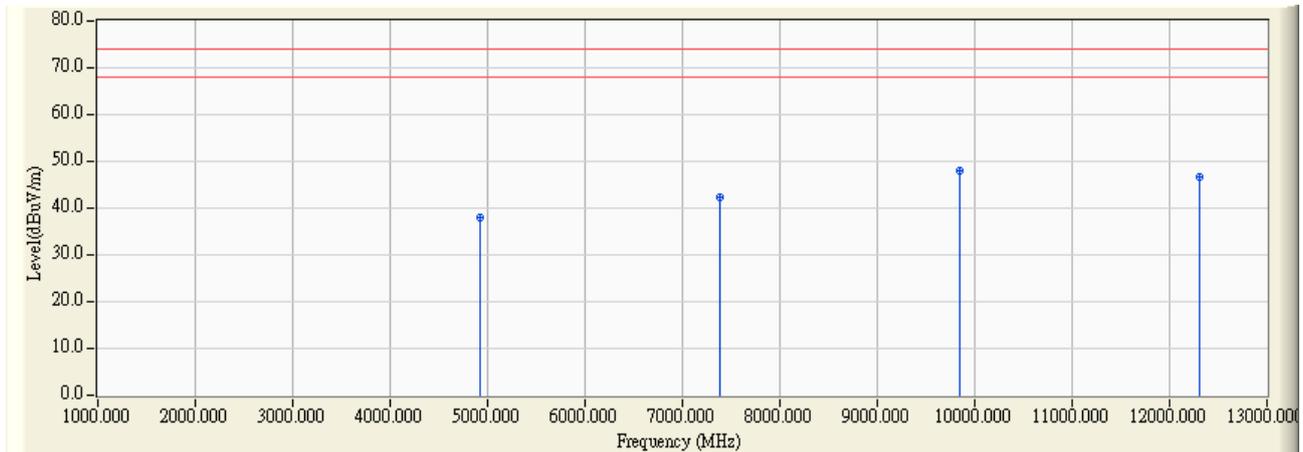


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4873.840	-1.395	39.610	38.215	-35.785	74.000	54.000	PEAK
2	7310.800	4.895	37.590	42.485	-31.515	74.000	54.000	PEAK
3	* 9748.200	8.851	39.050	47.901	-26.099	74.000	54.000	PEAK
4	12185.240	10.238	36.200	46.438	-27.562	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:02
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

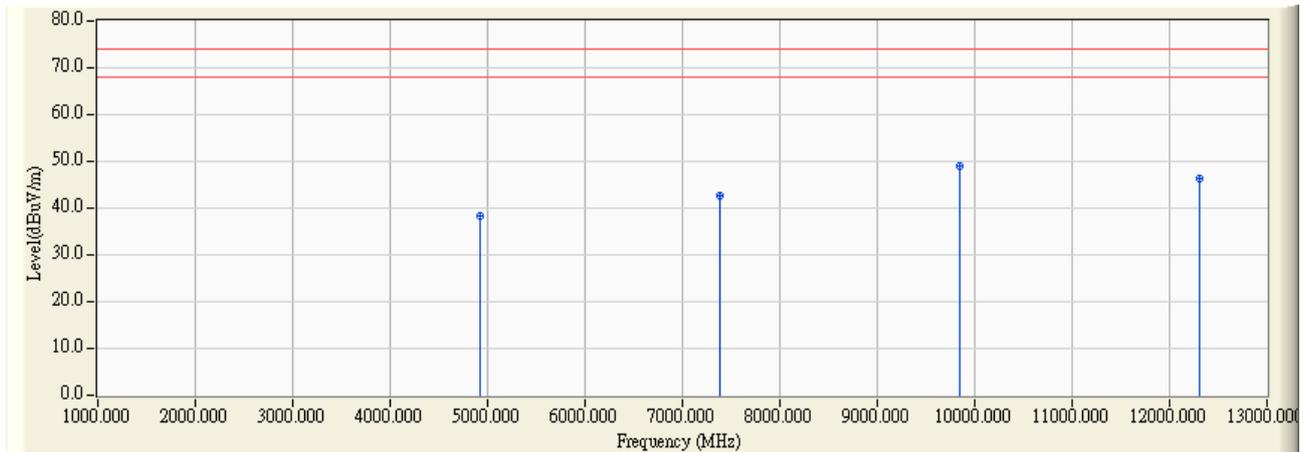


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4924.160	-1.287	39.260	37.974	-36.026	74.000	54.000	PEAK
2	7385.800	5.033	37.430	42.462	-31.538	74.000	54.000	PEAK
3	* 9847.960	9.495	38.340	47.834	-26.166	74.000	54.000	PEAK
4	12309.800	10.250	36.340	46.590	-27.410	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

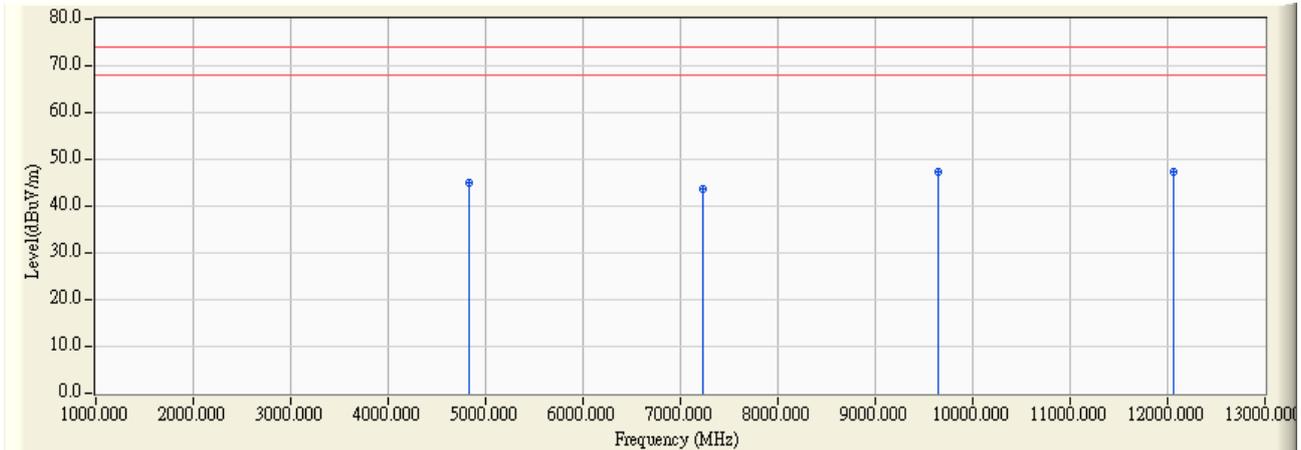


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4924.200	-1.286	39.590	38.304	-35.696	74.000	54.000	PEAK
2	7385.880	5.033	37.480	42.512	-31.488	74.000	54.000	PEAK
3	* 9847.240	9.489	39.390	48.880	-25.120	74.000	54.000	PEAK
4	12309.880	10.250	36.190	46.440	-27.560	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

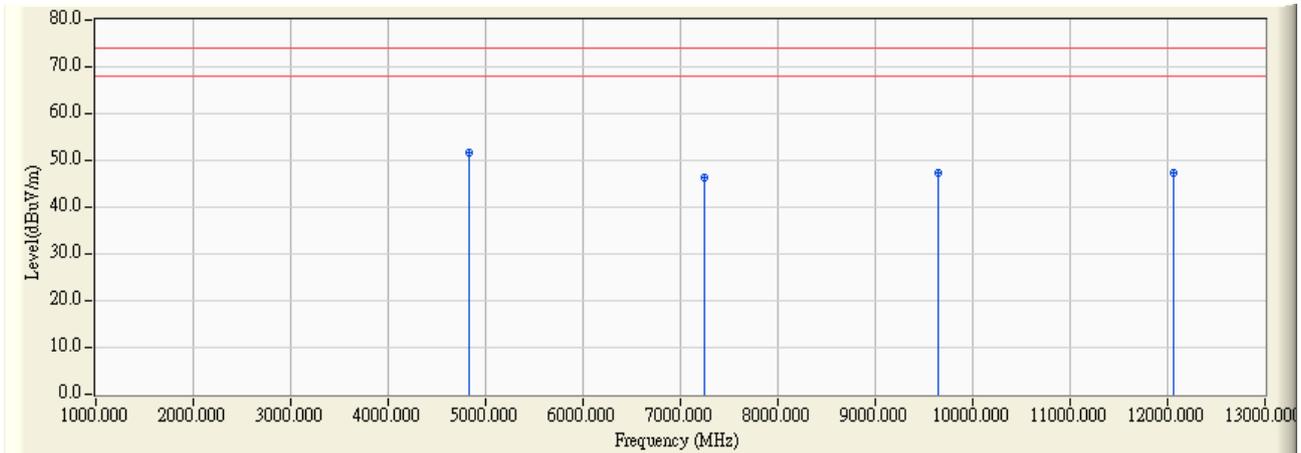


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4824.200	-1.502	46.450	44.948	-29.052	74.000	54.000	PEAK
2	7236.900	4.759	38.840	43.599	-30.401	74.000	54.000	PEAK
3	9648.500	8.207	39.020	47.227	-26.773	74.000	54.000	PEAK
4	* 12061.300	10.226	37.240	47.465	-26.535	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

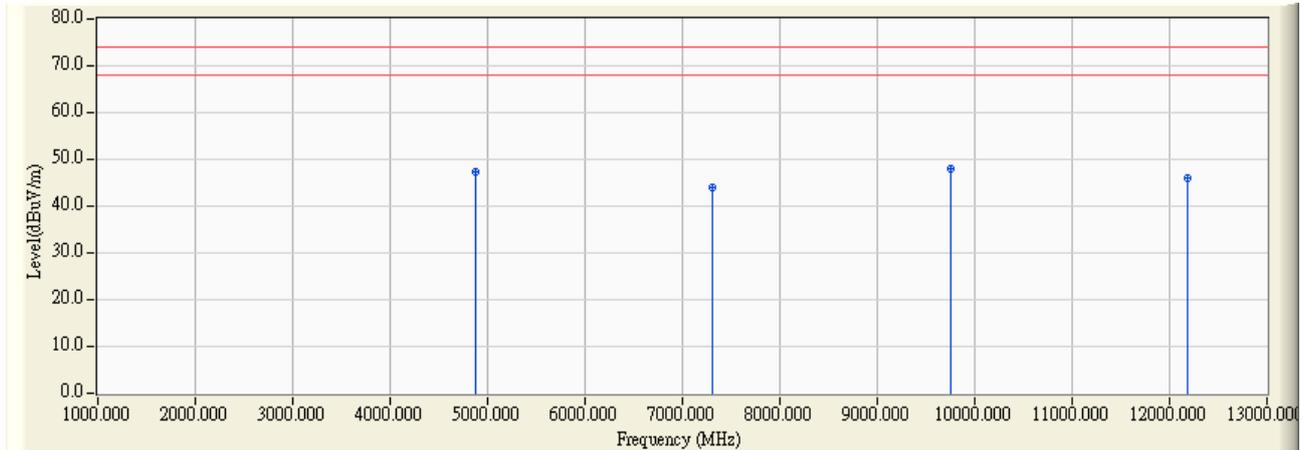


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4824.300	-1.502	53.070	51.568	-22.432	74.000	54.000	PEAK
2		7238.600	4.763	41.530	46.292	-27.708	74.000	54.000	PEAK
3		9648.100	8.205	39.060	47.265	-26.735	74.000	54.000	PEAK
4		12060.600	10.225	37.180	47.405	-26.595	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(20M)

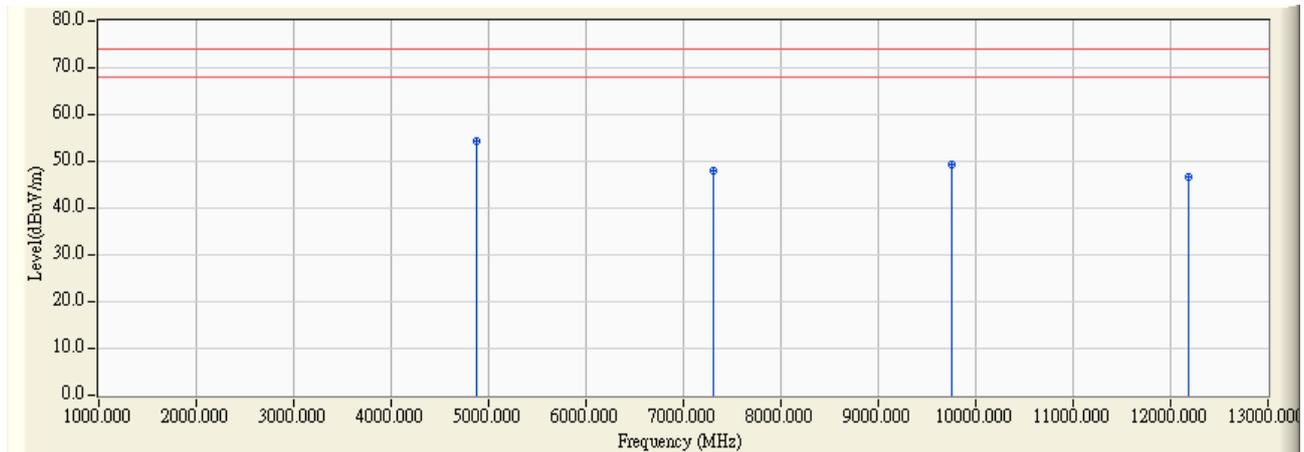


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4874.000	-1.395	48.710	47.315	-26.685	74.000	54.000	PEAK
2	7314.300	4.901	39.090	43.991	-30.009	74.000	54.000	PEAK
3	* 9748.300	8.852	39.050	47.901	-26.099	74.000	54.000	PEAK
4	12184.700	10.238	35.910	46.148	-27.852	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(20M)

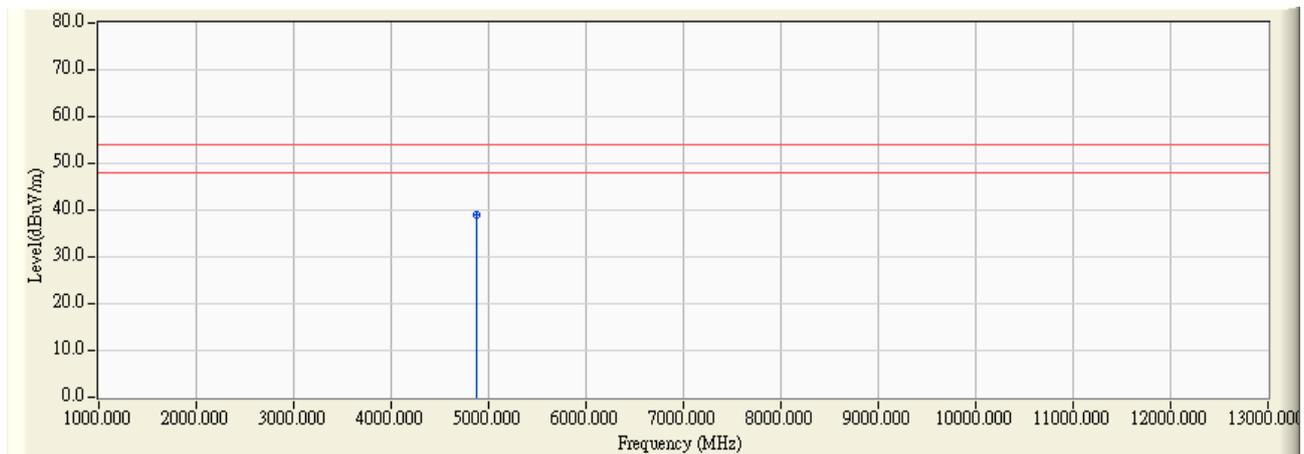


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4874.400	-1.394	55.630	54.236	-19.764	74.000	54.000	PEAK
2		7313.700	4.900	43.190	48.090	-25.910	74.000	54.000	PEAK
3		9748.600	8.854	40.480	49.333	-24.667	74.000	54.000	PEAK
4		12184.700	10.238	36.470	46.708	-27.292	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:14
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(20M)

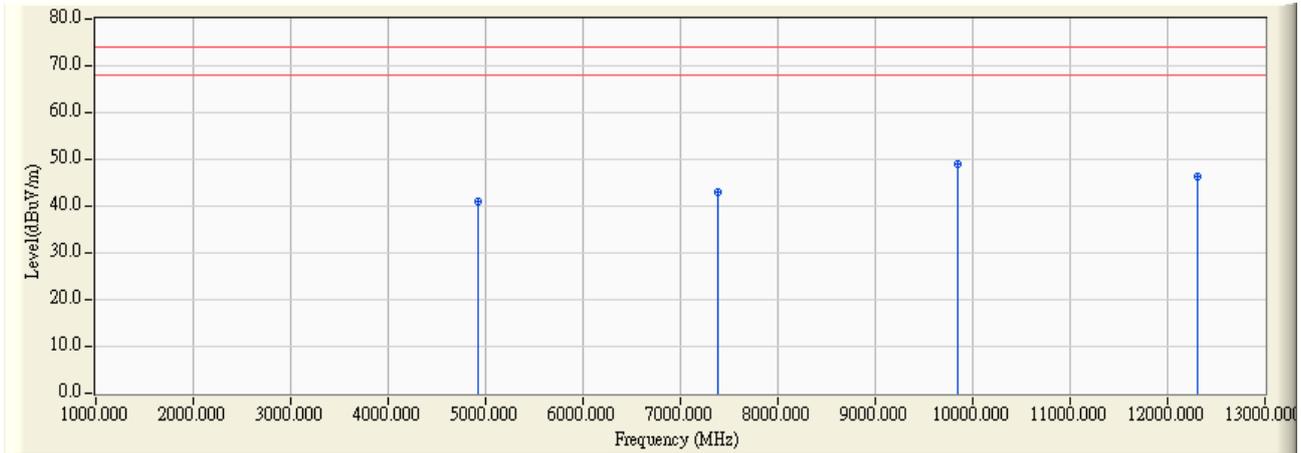


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4874.000	-1.395	40.270	38.875	-15.125	74.000	54.000	AVERAGE

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. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

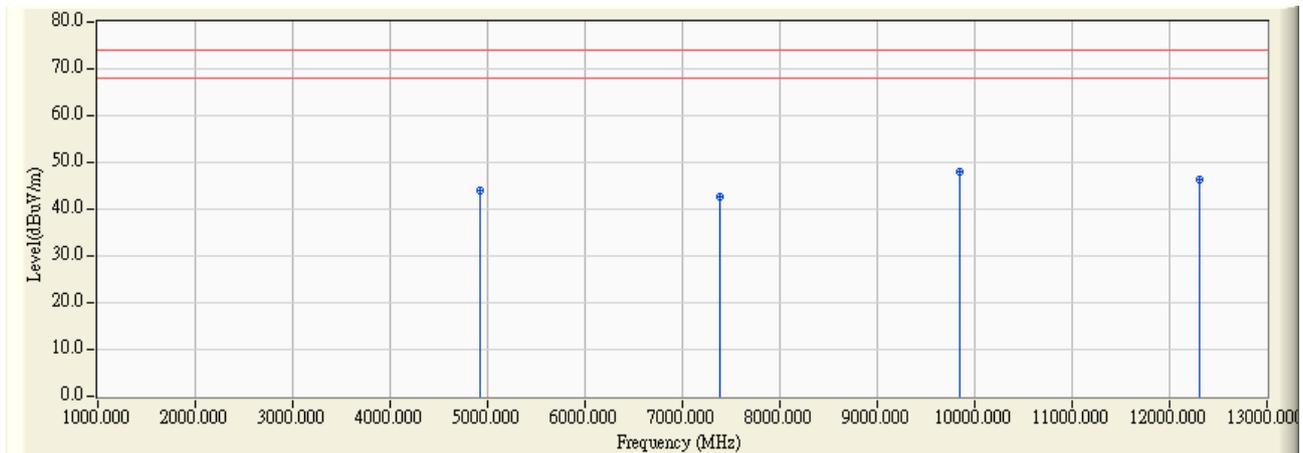


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4921.400	-1.292	42.260	40.968	-33.032	74.000	54.000	PEAK
2	7386.600	5.033	37.980	43.014	-30.986	74.000	54.000	PEAK
3	* 9850.200	9.509	39.510	49.019	-24.981	74.000	54.000	PEAK
4	12310.600	10.250	36.160	46.410	-27.590	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

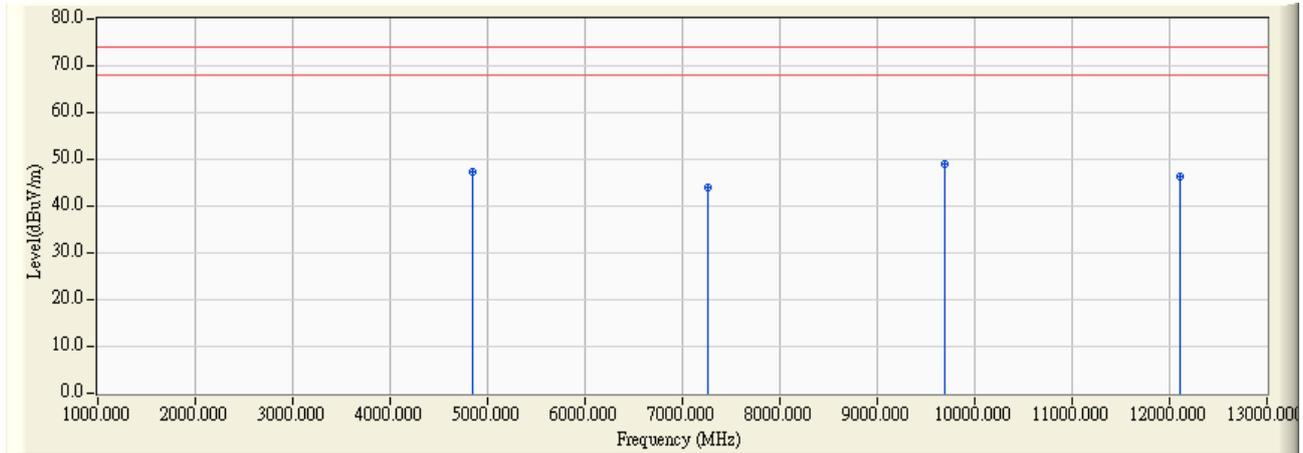


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4924.500	-1.286	45.150	43.864	-30.136	74.000	54.000	PEAK
2	7385.800	5.033	37.560	42.592	-31.408	74.000	54.000	PEAK
3	* 9847.200	9.489	38.410	47.900	-26.100	74.000	54.000	PEAK
4	12309.200	10.250	35.990	46.240	-27.760	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

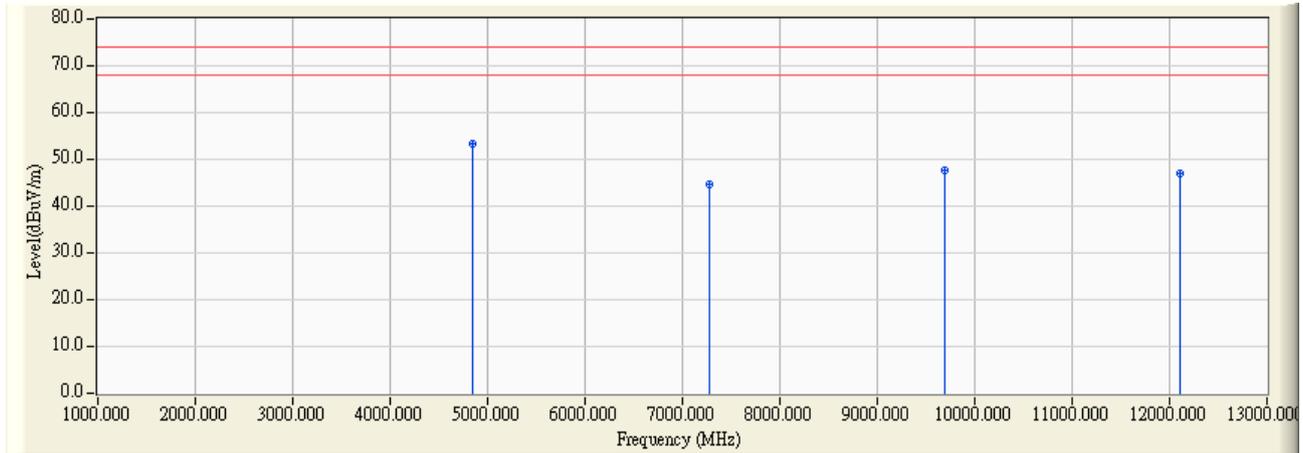


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4848.400	-1.450	48.750	47.300	-26.700	74.000	54.000	PEAK
2	7264.700	4.810	39.310	44.120	-29.880	74.000	54.000	PEAK
3	* 9690.900	8.481	40.400	48.881	-25.119	74.000	54.000	PEAK
4	12109.700	10.230	36.000	46.230	-27.770	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

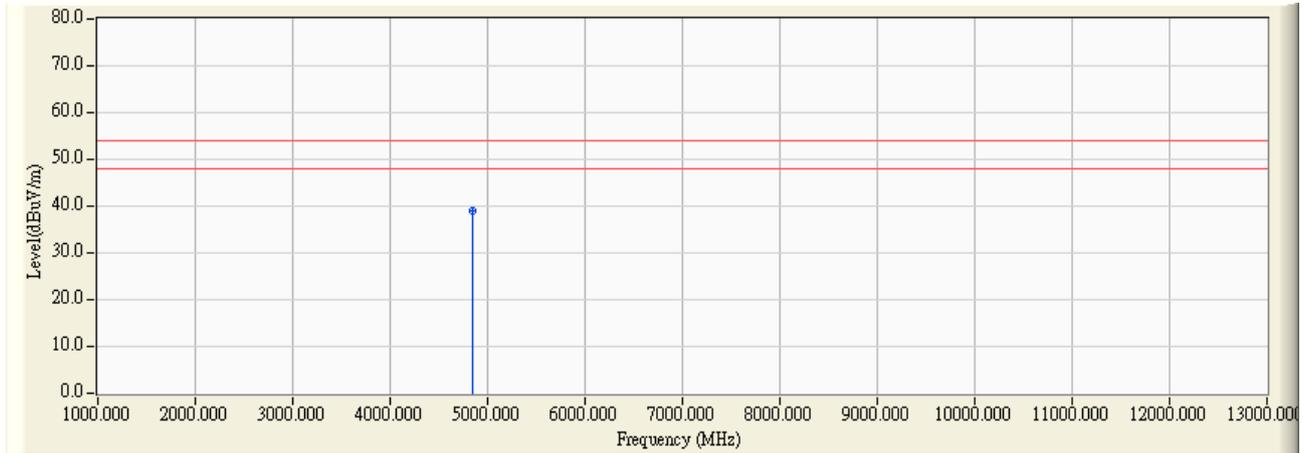


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4848.300	-1.450	54.940	53.490	-20.510	74.000	54.000	PEAK
2		7271.400	4.822	40.010	44.832	-29.168	74.000	54.000	PEAK
3		9689.100	8.470	39.350	47.819	-26.181	74.000	54.000	PEAK
4		12108.900	10.231	36.720	46.950	-27.050	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:26
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

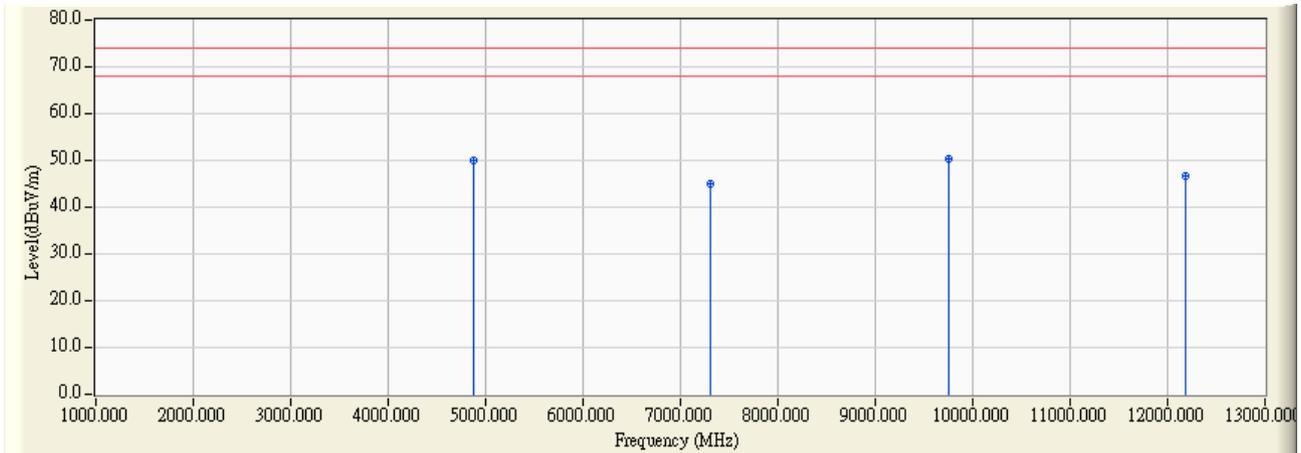


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4842.400	-1.463	40.330	38.867	-15.133	74.000	54.000	AVERAGE

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. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(40M)

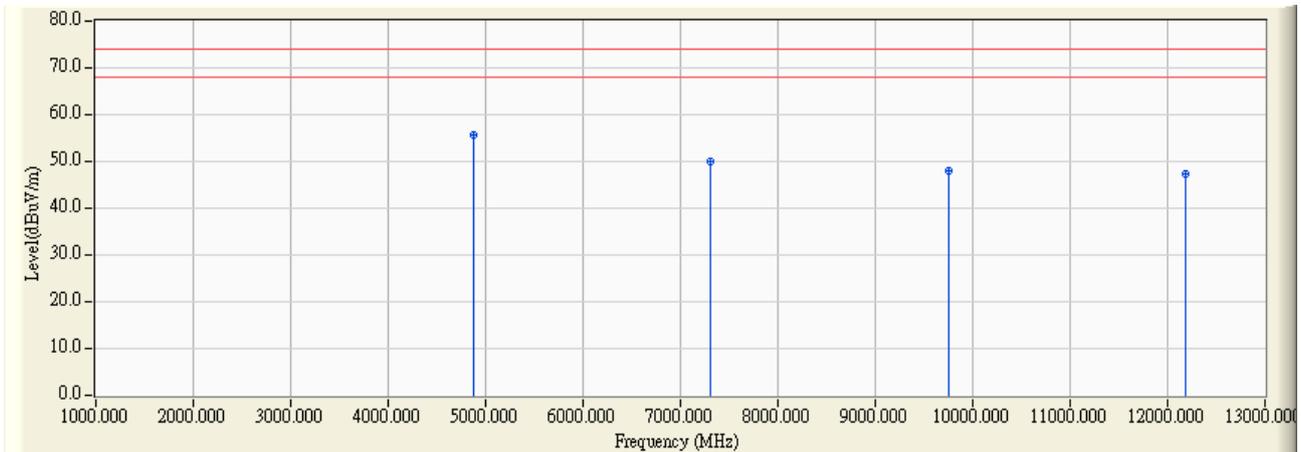


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4873.200	-1.396	51.390	49.994	-24.006	74.000	54.000	PEAK
2	7305.600	4.885	40.270	45.155	-28.845	74.000	54.000	PEAK
3	* 9749.100	8.857	41.410	50.267	-23.733	74.000	54.000	PEAK
4	12184.600	10.239	36.560	46.798	-27.202	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(40M)

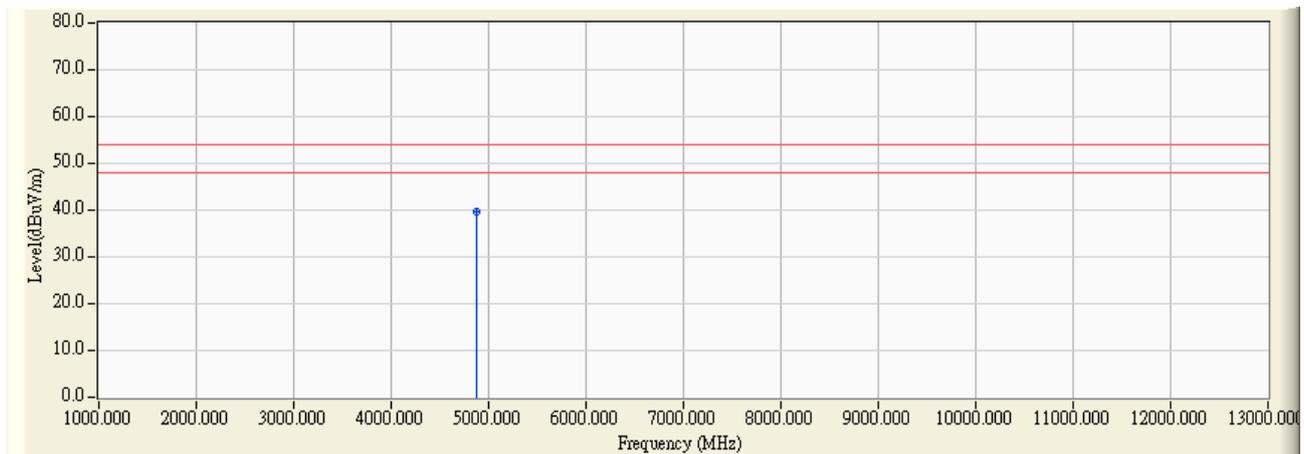


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4878.200	-1.385	56.950	55.565	-18.435	74.000	54.000	PEAK
2		7309.400	4.892	45.120	50.012	-23.988	74.000	54.000	PEAK
3		9748.700	8.854	39.220	48.074	-25.926	74.000	54.000	PEAK
4		12184.400	10.238	36.940	47.178	-26.822	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:33
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2437,802.11n(40M)

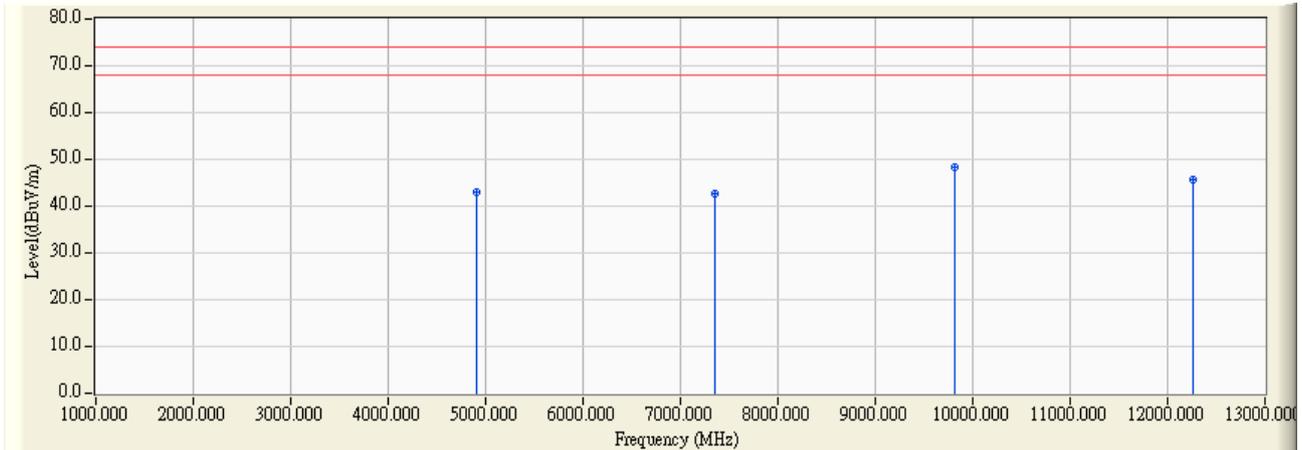


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4872.900	-1.397	41.040	39.643	-14.357	74.000	54.000	AVERAGE

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. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)

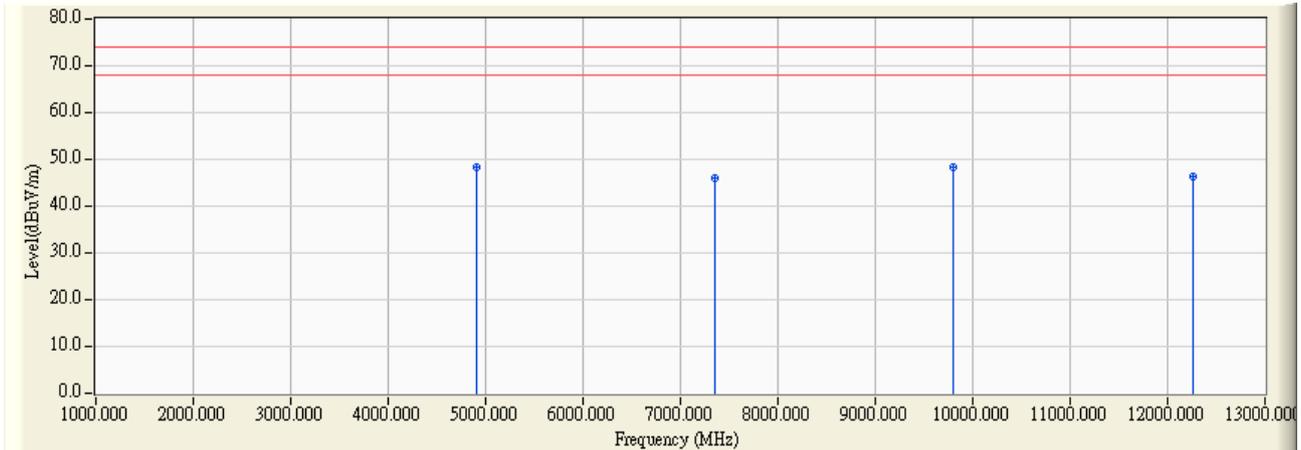


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4903.400	-1.331	44.460	43.129	-30.871	74.000	54.000	PEAK
2	7359.000	4.983	37.850	42.833	-31.167	74.000	54.000	PEAK
3	* 9809.400	9.245	39.130	48.376	-25.624	74.000	54.000	PEAK
4	12260.000	10.245	35.530	45.775	-28.225	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/11 - 16:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)

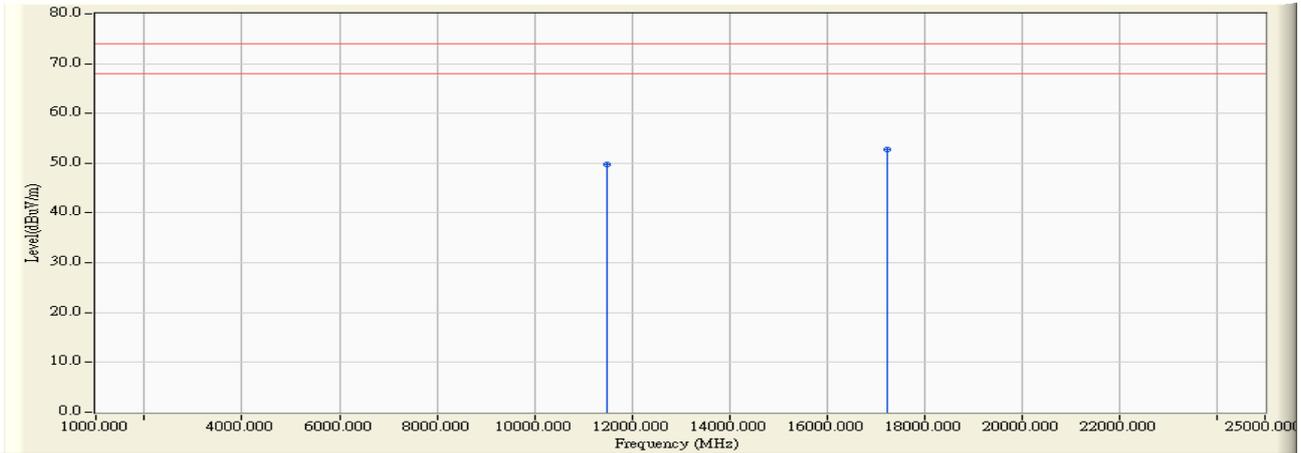


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	*	4903.000	-1.332	49.750	48.418	-25.582	74.000	54.000	PEAK
2		7348.500	4.964	41.140	46.104	-27.896	74.000	54.000	PEAK
3		9807.100	9.231	39.070	48.301	-25.699	74.000	54.000	PEAK
4		12261.900	10.245	36.200	46.445	-27.555	74.000	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5745,802.11a

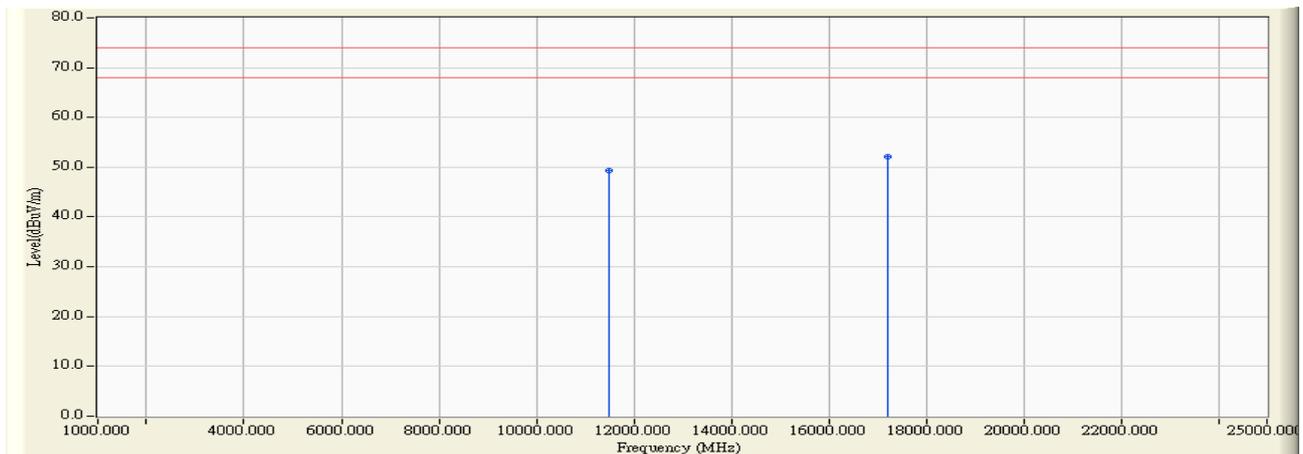


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11489.300	10.605	39.060	49.664	-24.336	74.000	54.000	PEAK
2	* 17246.900	14.446	38.370	52.817	-21.183	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:04
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5745,802.11a

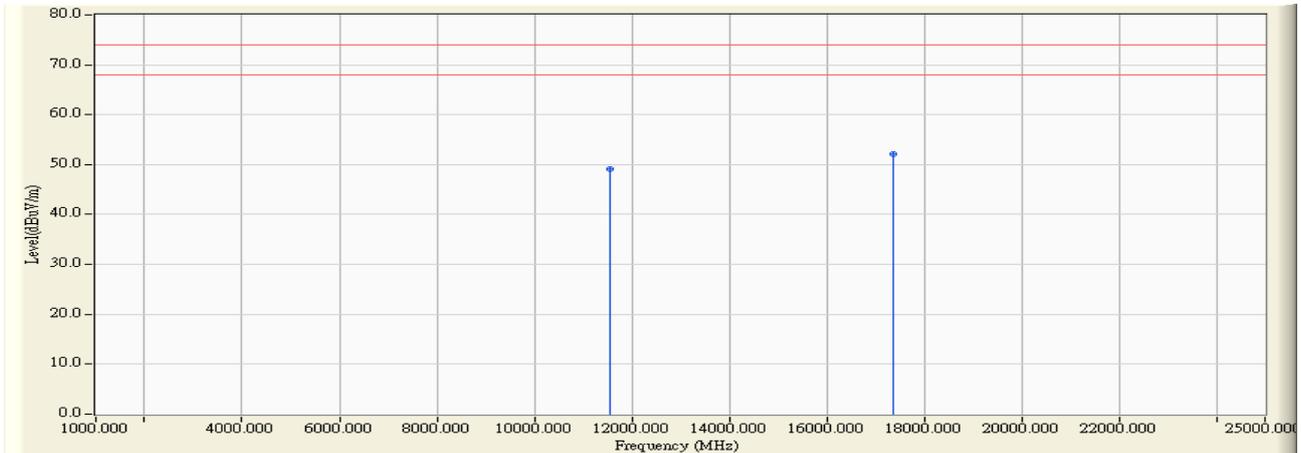


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11489.200	10.604	38.790	49.394	-24.606	74.000	54.000	PEAK
2	* 17228.000	14.371	37.780	52.150	-21.850	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5785,802.11a

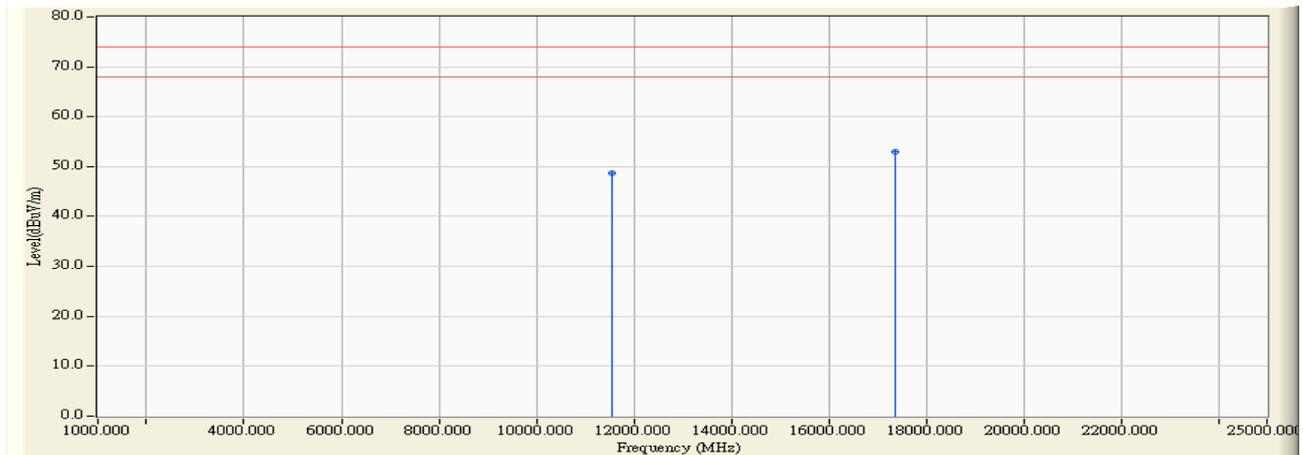


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11564.900	10.548	38.580	49.128	-24.872	74.000	54.000	PEAK
2	* 17366.600	14.930	37.160	52.090	-21.910	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5785,802.11a

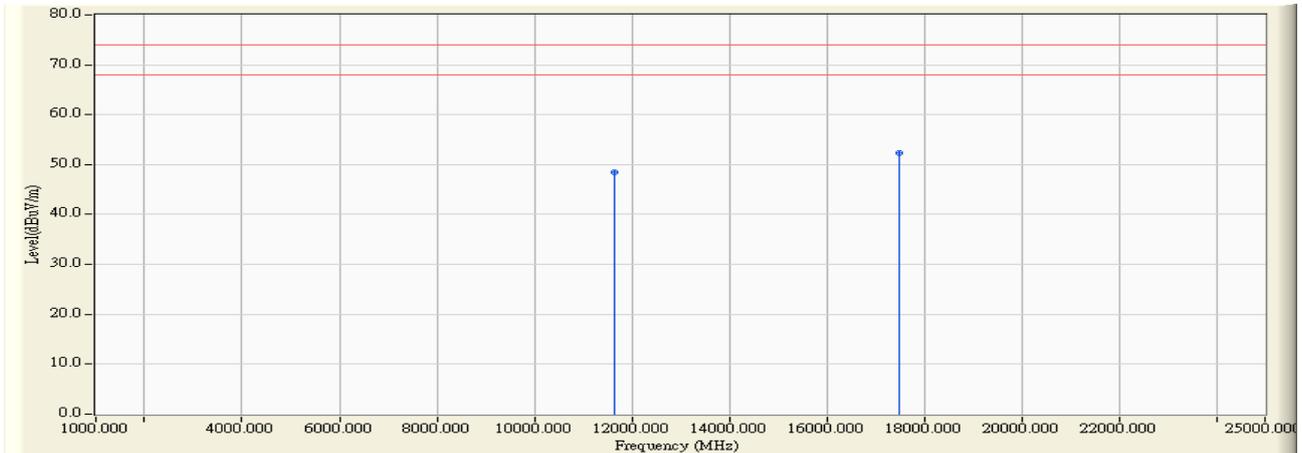


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11567.500	10.545	38.210	48.756	-25.244	74.000	54.000	PEAK
2	* 17364.300	14.920	37.950	52.870	-21.130	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5825,802.11a

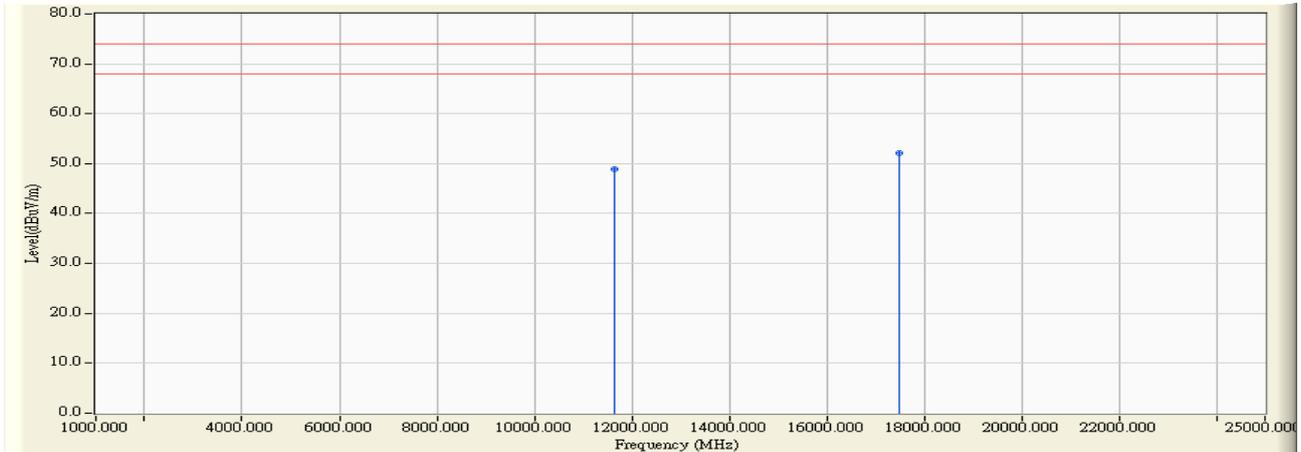


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11639.300	10.492	38.020	48.512	-25.488	74.000	54.000	PEAK
2	* 17485.500	15.410	36.910	52.319	-21.681	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5825,802.11a

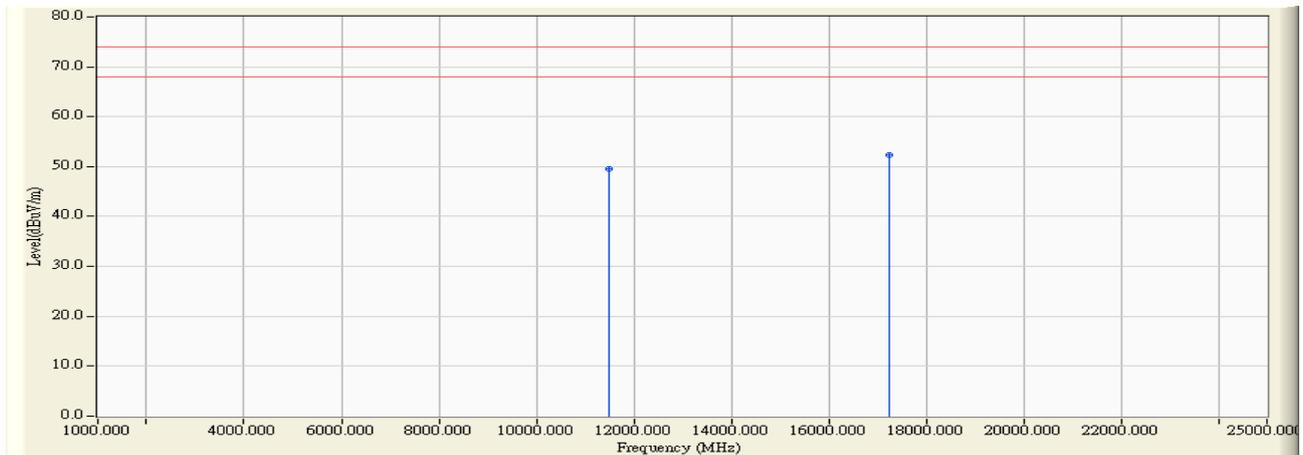


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11641.000	10.491	38.310	48.800	-25.200	74.000	54.000	PEAK
2	* 17486.700	15.414	36.650	52.064	-21.936	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5745,802.11n(20M)

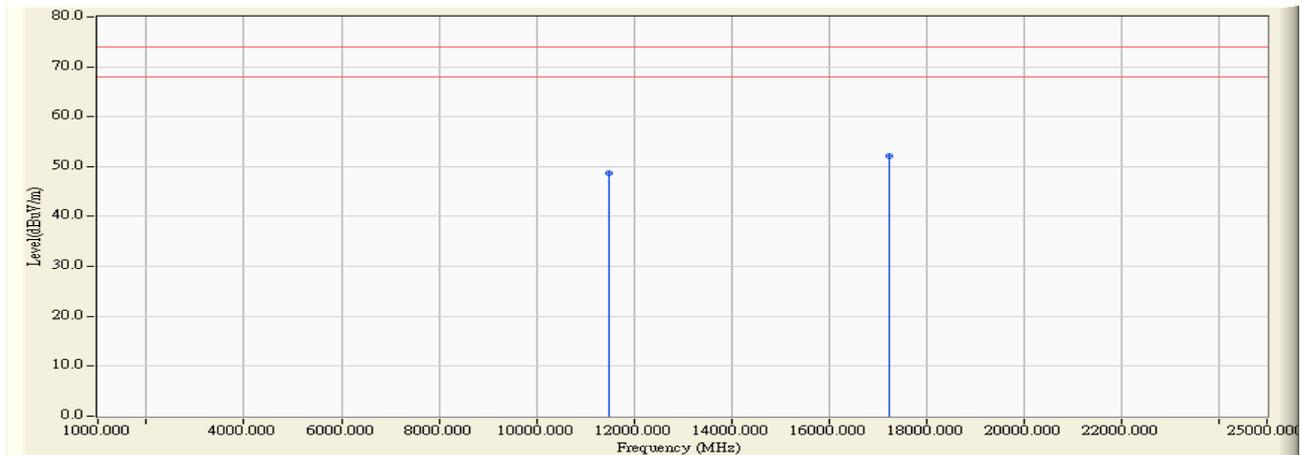


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11488.600	10.604	39.040	49.645	-24.355	74.000	54.000	PEAK
2	* 17239.800	14.418	37.960	52.378	-21.622	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:20
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5745,802.11n(20M)

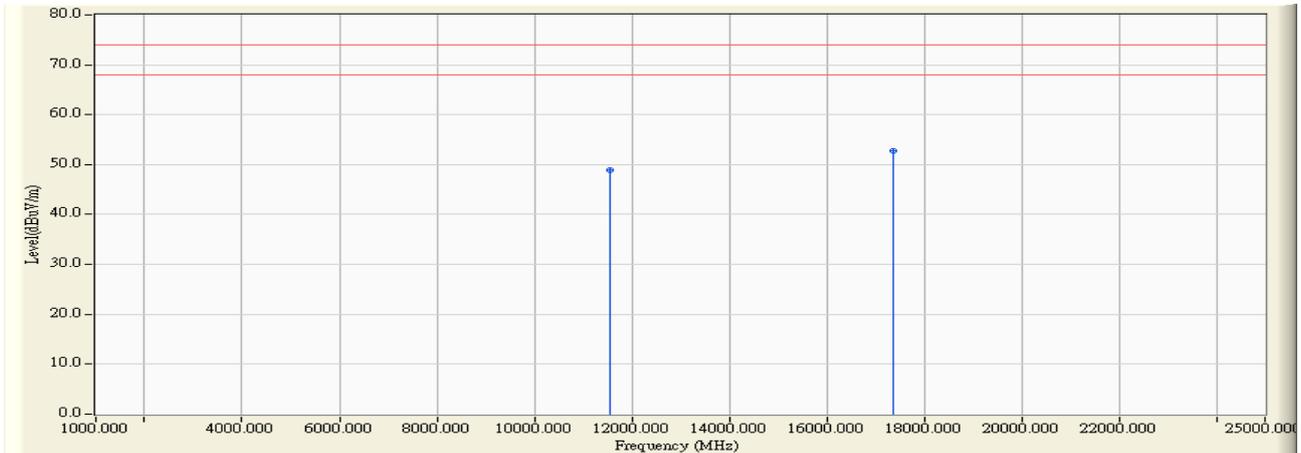


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11489.800	10.604	38.100	48.704	-25.296	74.000	54.000	PEAK
2	* 17231.100	14.384	37.750	52.133	-21.867	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5785,802.11n(20M)

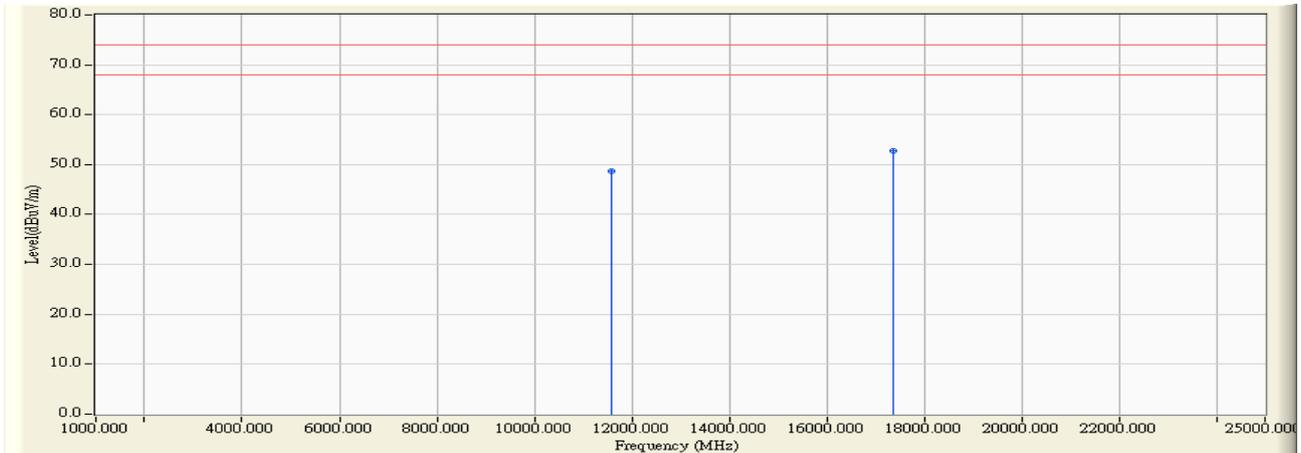


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11568.200	10.545	38.260	48.805	-25.195	74.000	54.000	PEAK
2	* 17355.700	14.886	37.920	52.806	-21.194	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:24
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5785,802.11n(20M)

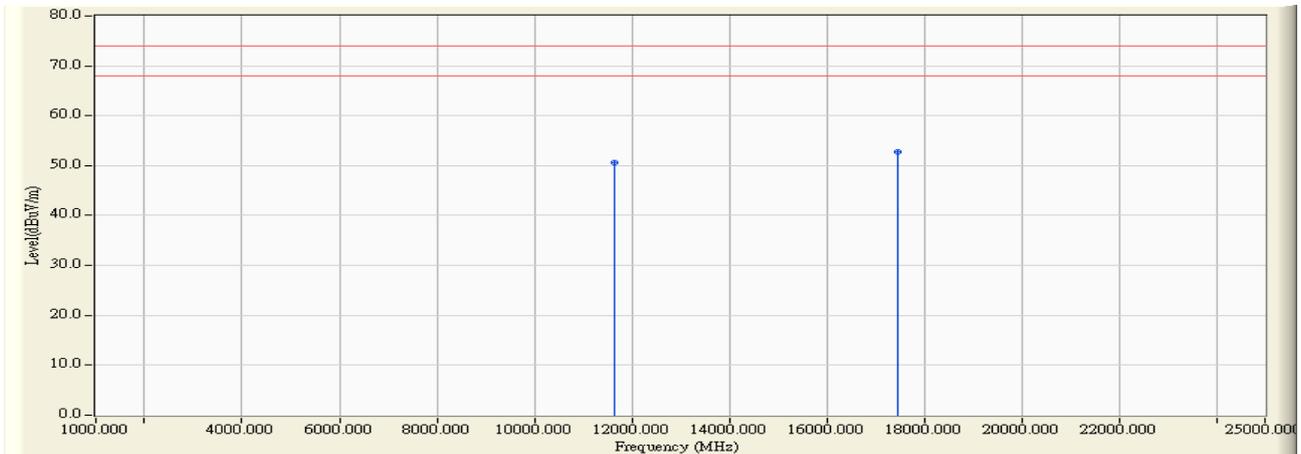


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11570.100	10.544	38.240	48.784	-25.216	74.000	54.000	PEAK
2	* 17355.200	14.884	37.910	52.794	-21.206	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5825,802.11n(20M)

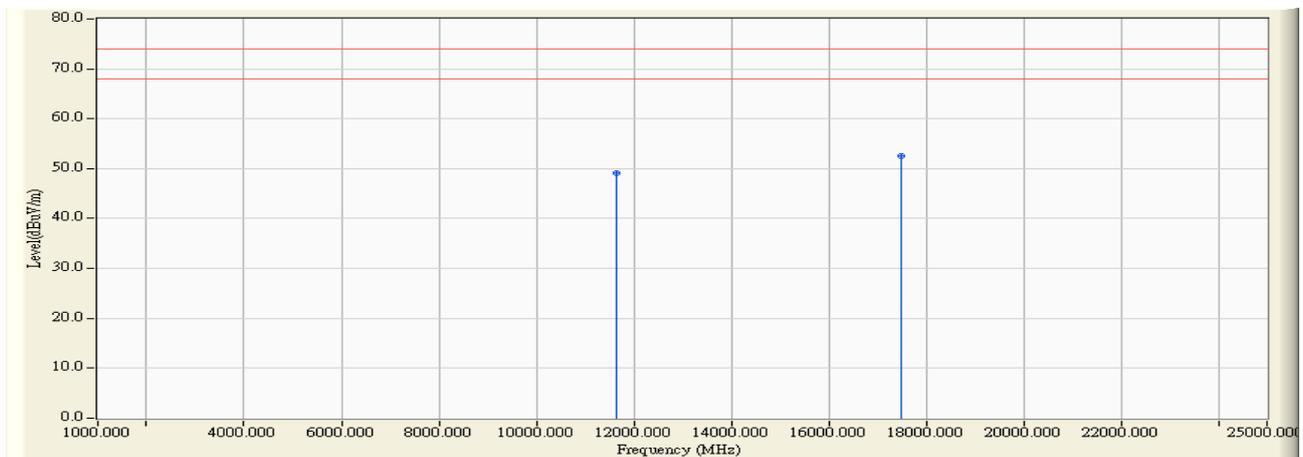


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11658.400	10.477	40.120	50.597	-23.403	74.000	54.000	PEAK
2	* 17475.400	15.369	37.410	52.779	-21.221	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5825,802.11n(20M)

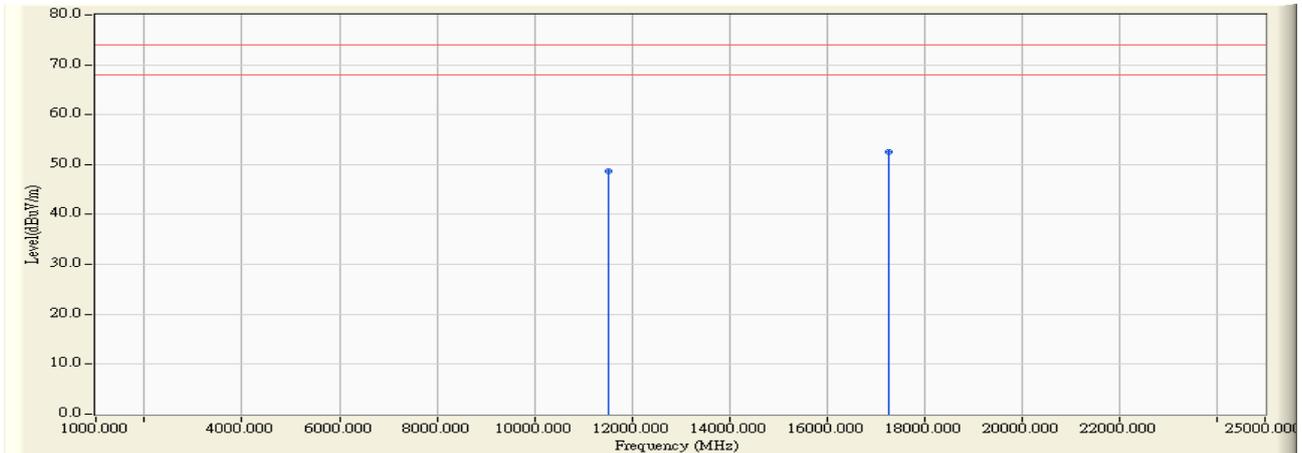


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11658.700	10.476	38.570	49.047	-24.953	74.000	54.000	PEAK
2	* 17478.500	15.382	37.120	52.501	-21.499	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5755,802.11n(40M)

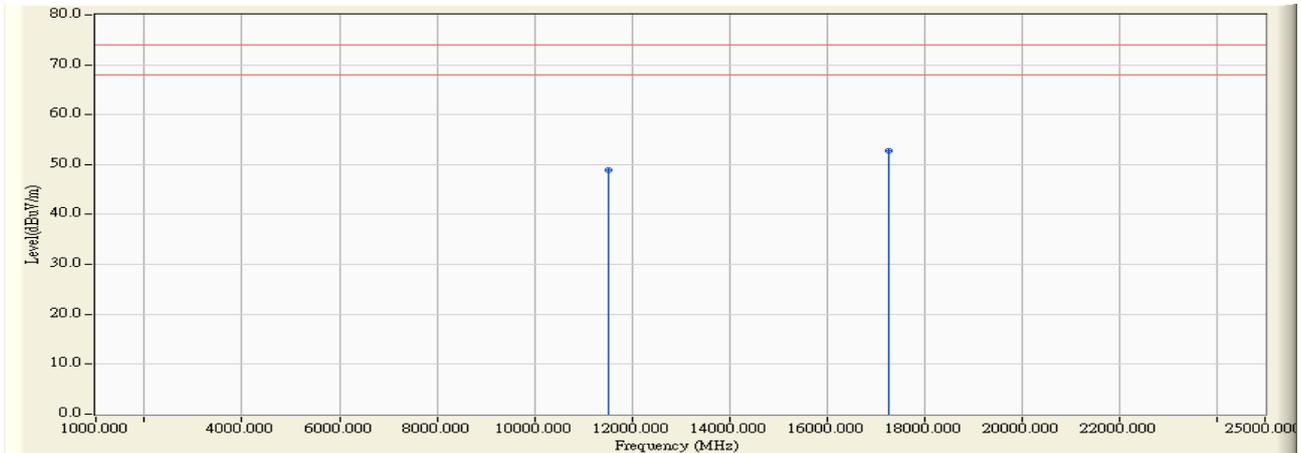


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11511.500	10.589	38.100	48.688	-25.312	74.000	54.000	PEAK
2	* 17267.800	14.531	38.120	52.651	-21.349	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5755,802.11n(40M)

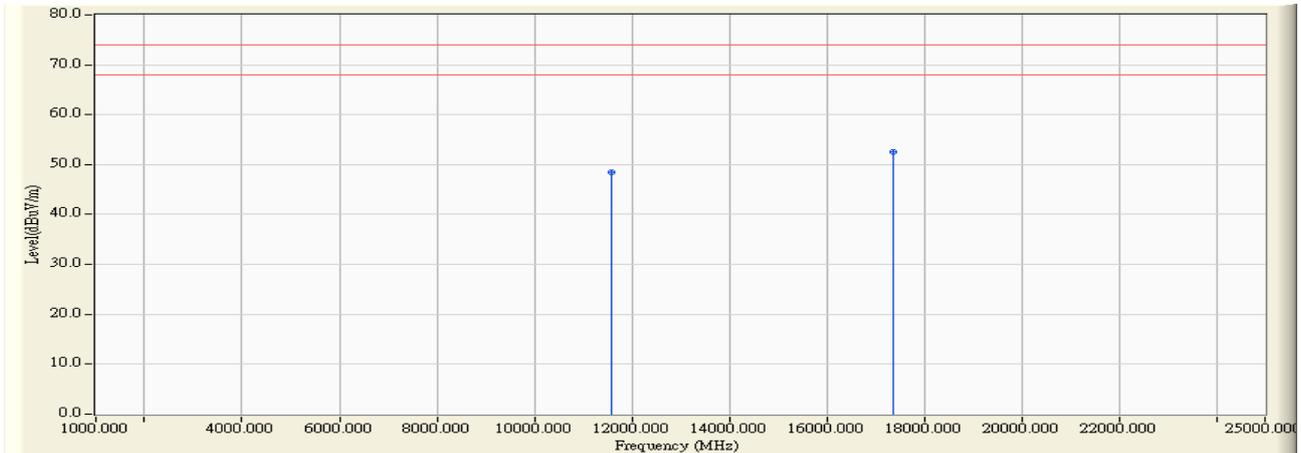


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11511.800	10.588	38.260	48.848	-25.152	74.000	54.000	PEAK
2	* 17264.600	14.518	38.320	52.838	-21.162	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5795,802.11n(40M)

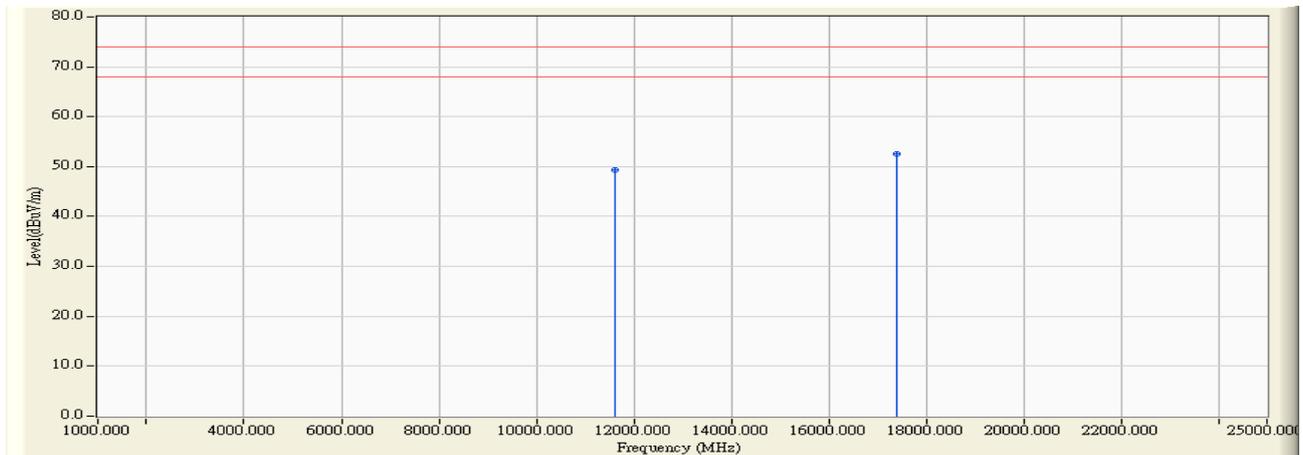


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	11591.500	10.529	37.890	48.418	-25.582	74.000	54.000	PEAK
2	* 17384.600	15.002	37.590	52.592	-21.408	74.000	54.000	PEAK

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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2011/06/12 - 22:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-5795,802.11n(40M)



	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	11600.800	10.521	38.780	49.301	-24.699	74.000	54.000	PEAK
2	* 17389.300	15.021	37.550	52.571	-21.429	74.000	54.000	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.
7. The Emission above 18GHz 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:

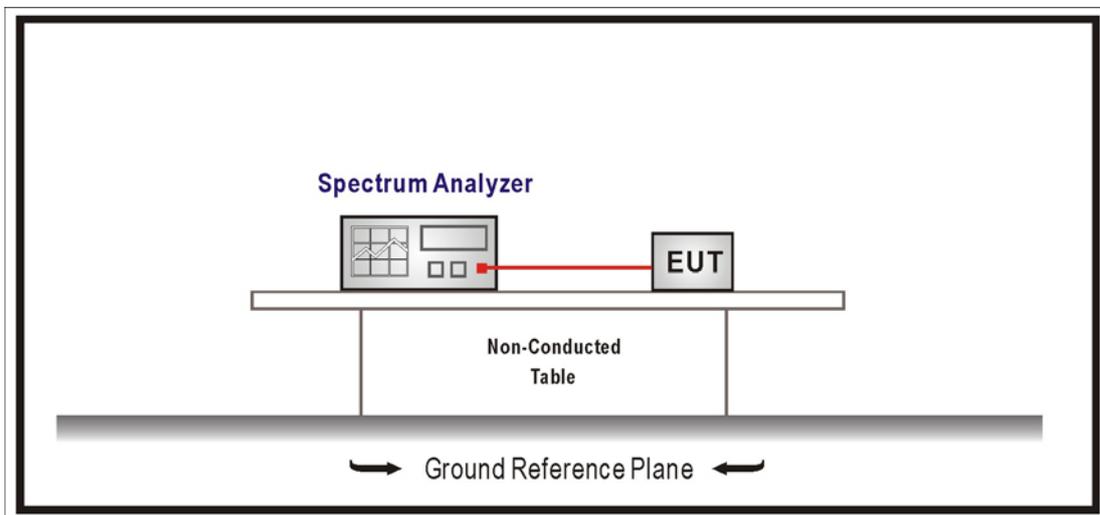
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/16

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: 2009 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: 2010

5.6. Uncertainty

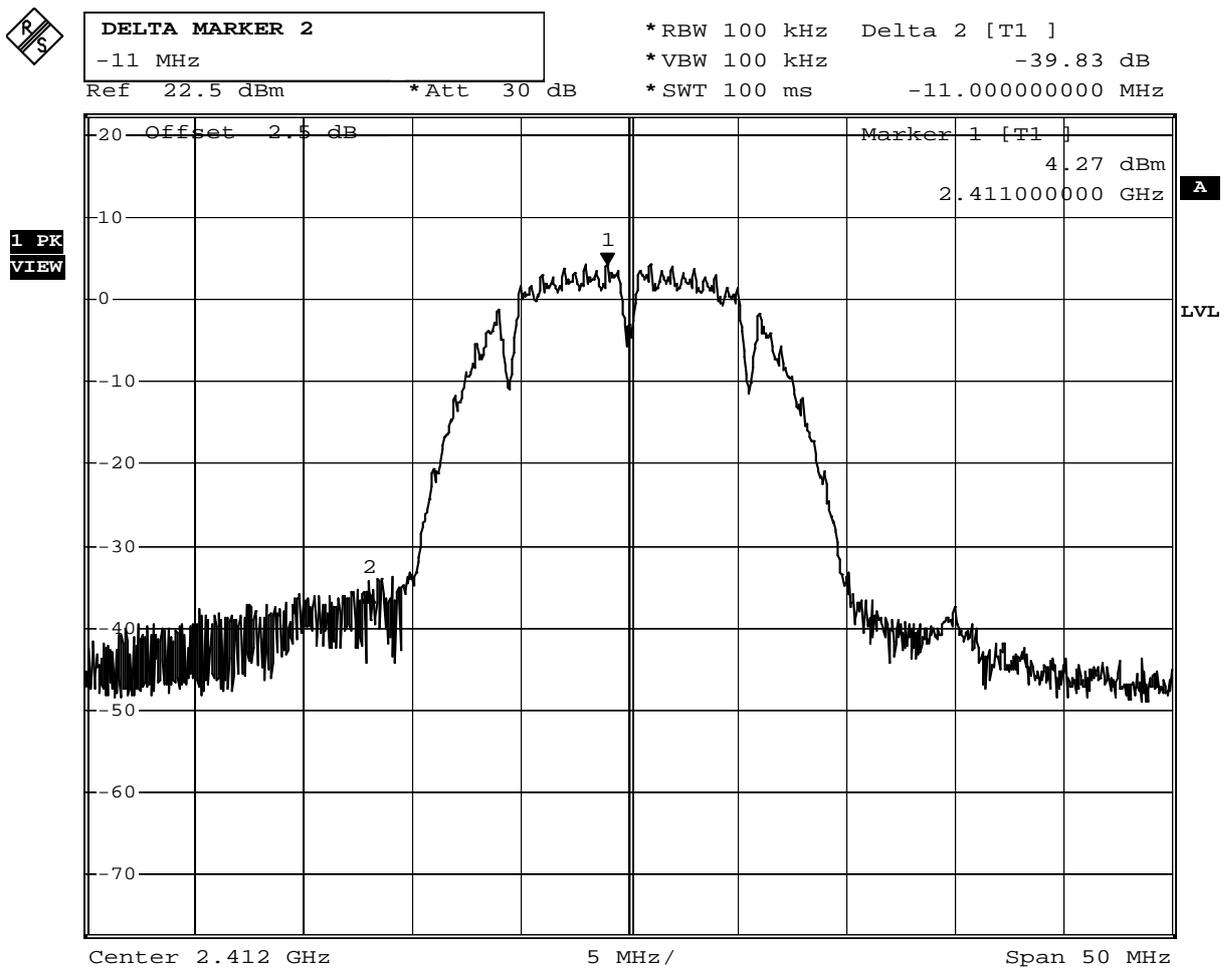
Conducted is defined as $\pm 1.27\text{dB}$

5.7. Test Result

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11b, Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.83	≥20	Pass
11	2462	47.78	≥20	Pass

Channel 01 (2412MHz)



Date: 15.JUN.2011 20:10:52

Channel 11 (2462MHz)

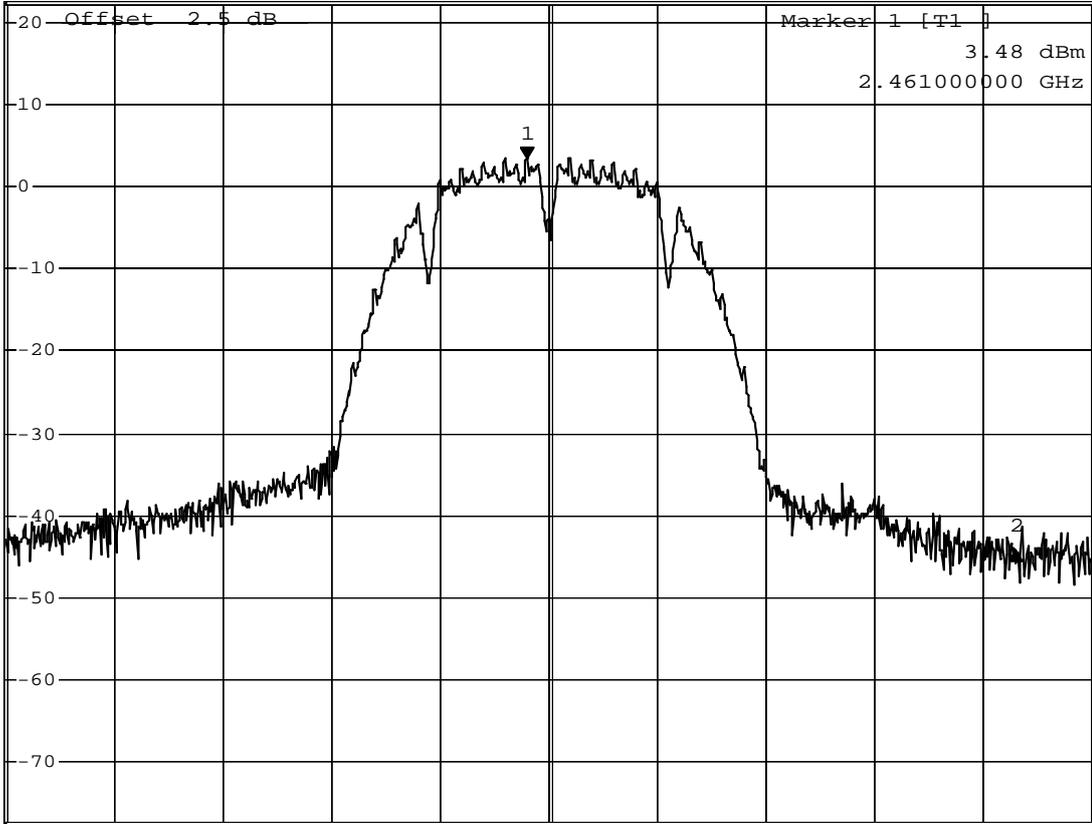


DELTA MARKER 2
22.5 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -47.78 dB
*SWT 100 ms 22.50000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



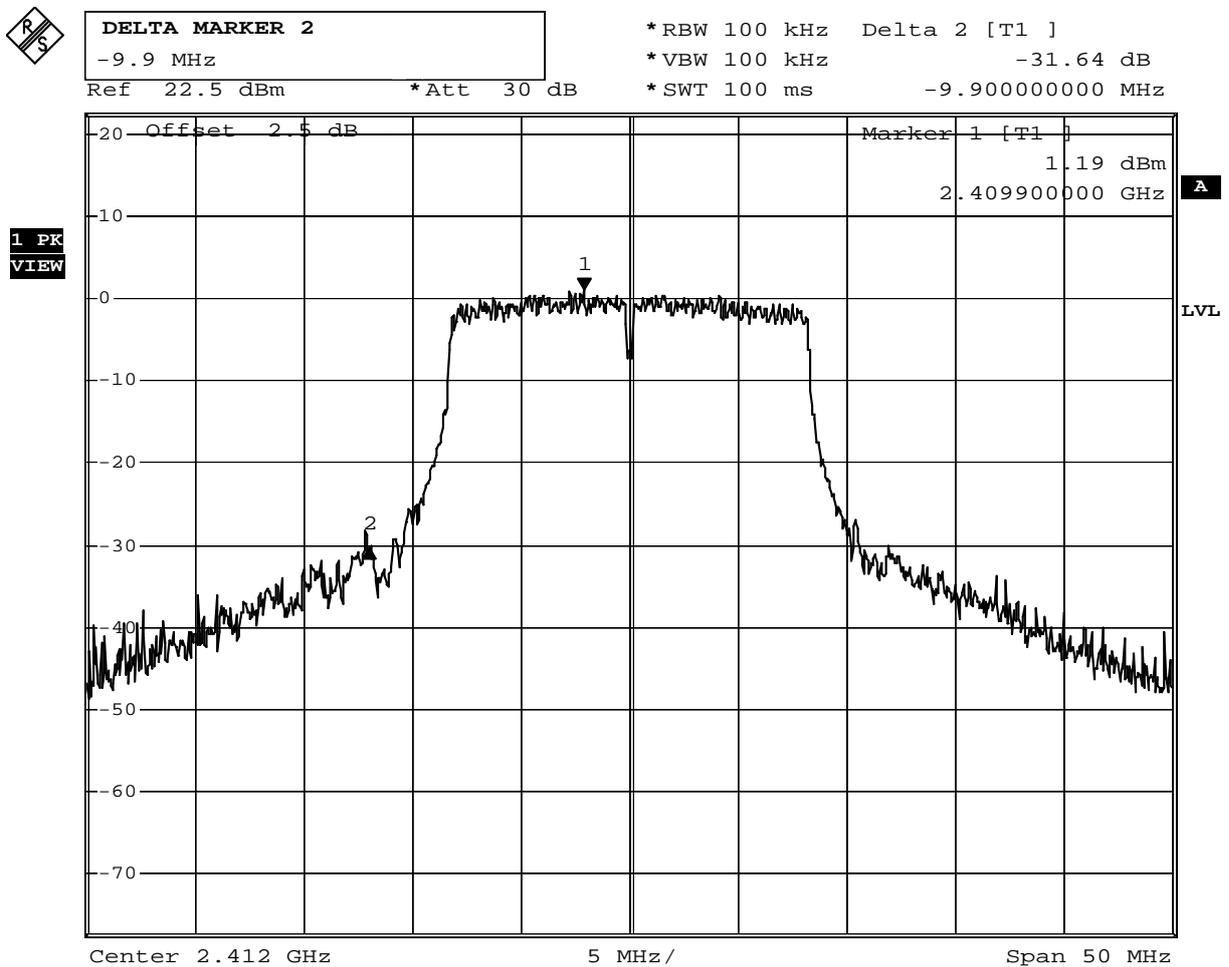
Center 2.462 GHz 5 MHz/ Span 50 MHz

Date: 15.JUN.2011 20:10:02

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11g, Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.64	≥20	Pass
11	2462	43.25	≥20	Pass

Channel 01 (2412MHz)



Date: 15.JUN.2011 20:12:25

Channel 11 (2462MHz)

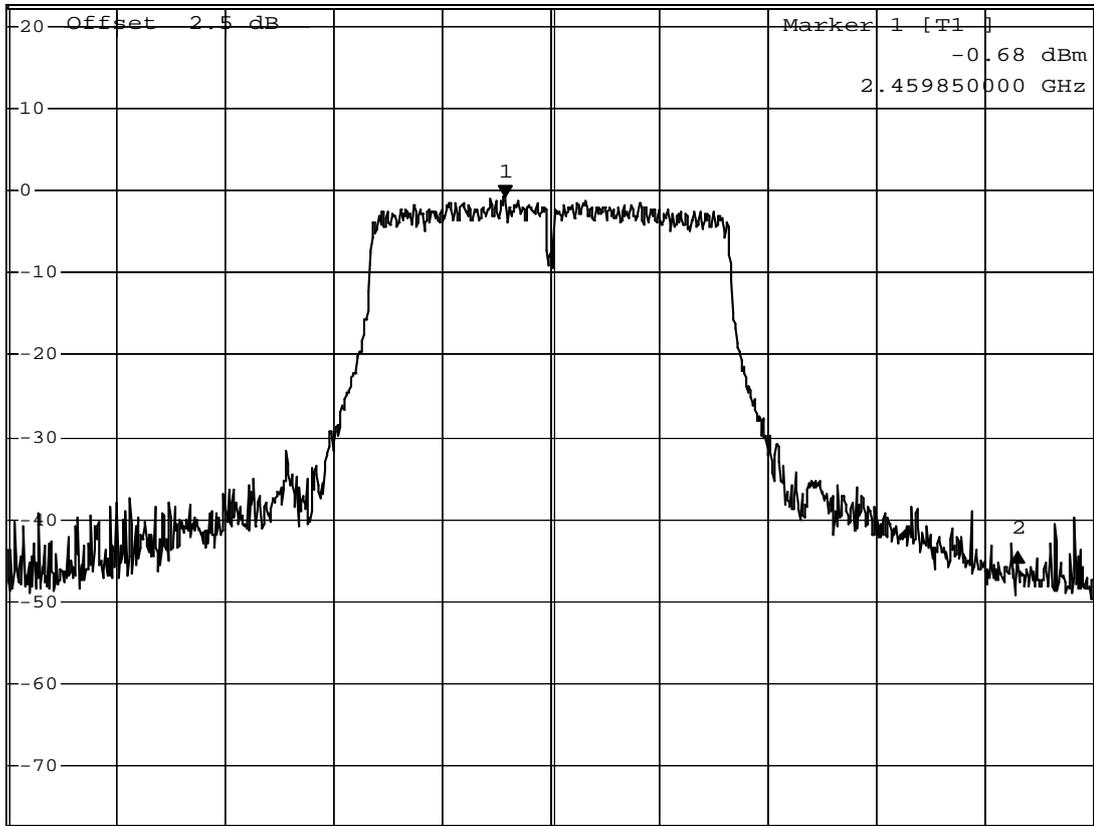


DELTA MARKER 2
23.65 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -43.25 dB
*SWT 100 ms 23.65000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



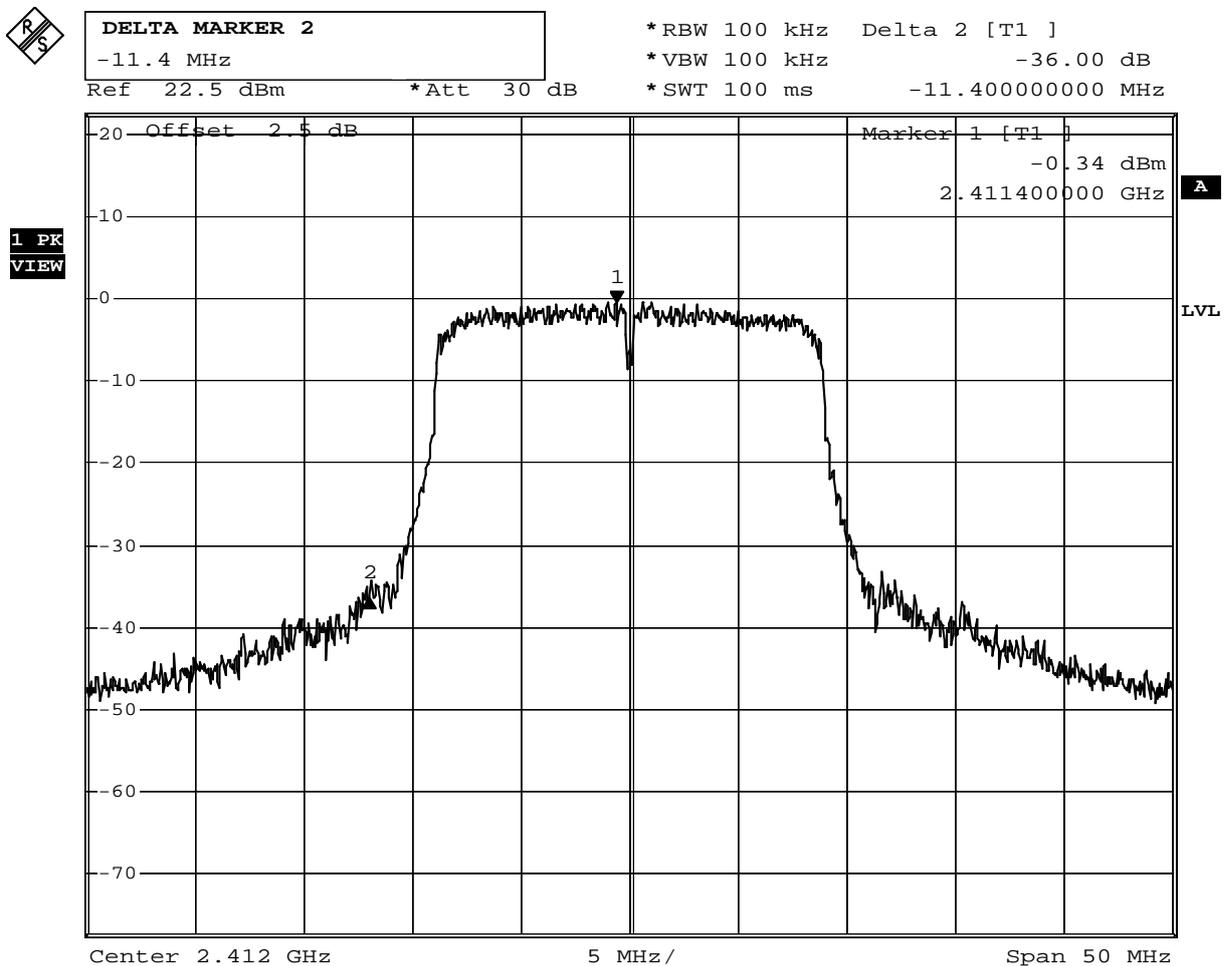
Center 2.462 GHz 5 MHz/ Span 50 MHz

Date: 15.JUN.2011 20:13:24

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT A) Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.00	≥20	Pass
11	2462	43.49	≥20	Pass

Channel 1 (2412MHz)



Date: 15.JUN.2011 20:14:23

Channel 11 (2462MHz)

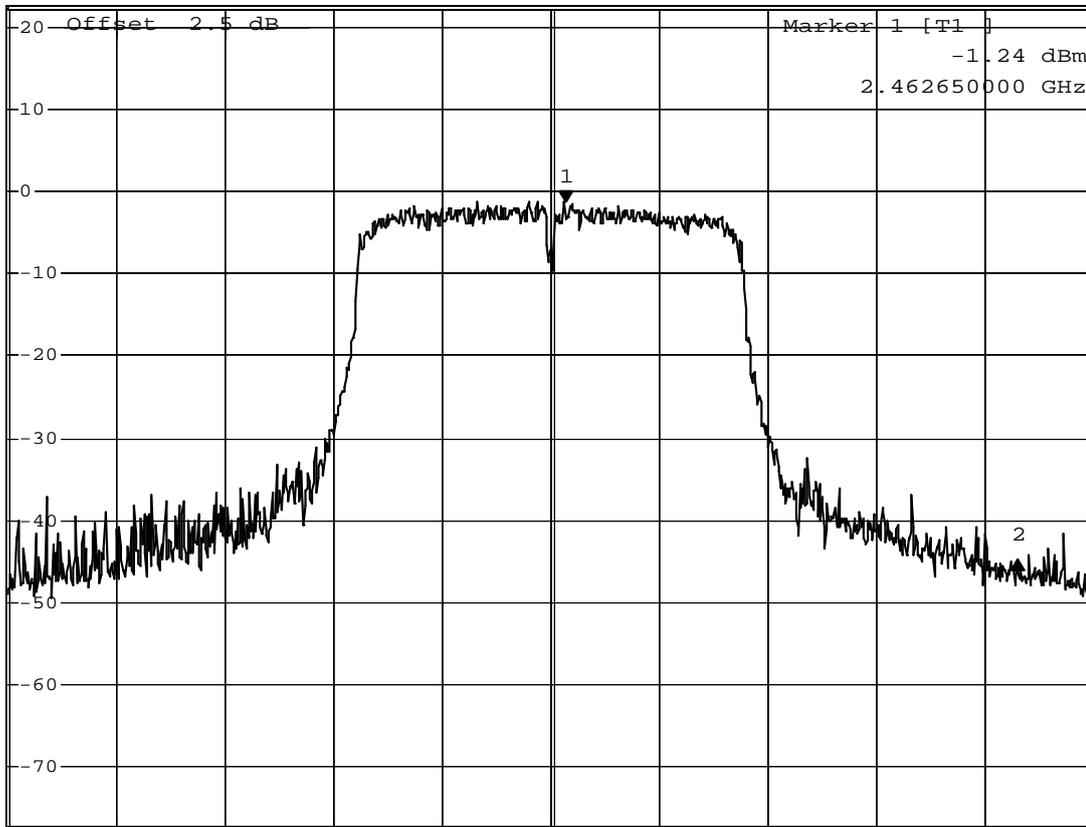


DELTA MARKER 2
20.85 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -43.49 dB
*SWT 100 ms 20.85000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.462 GHz

5 MHz/

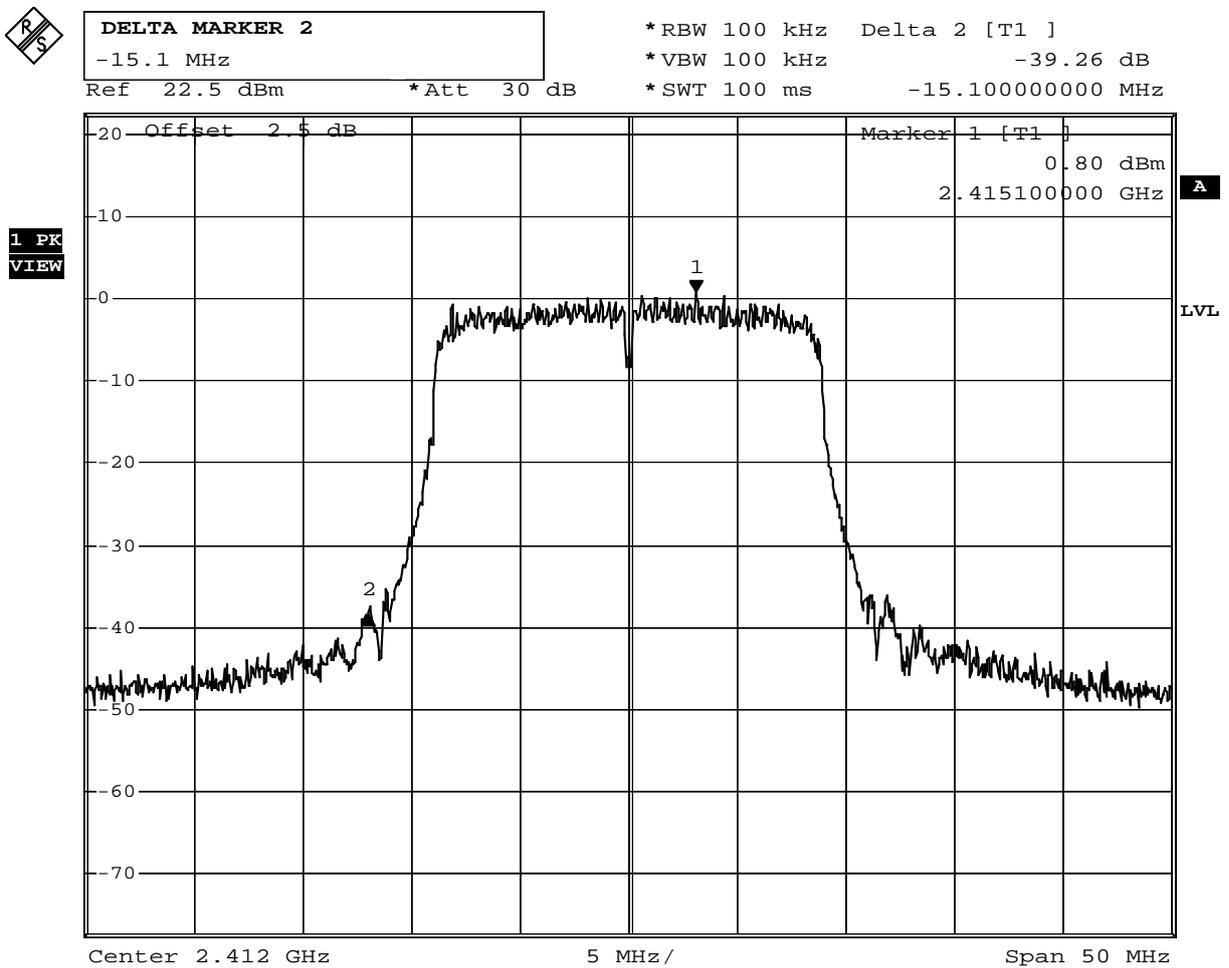
Span 50 MHz

Date: 15.JUN.2011 20:15:54

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT B) Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.26	≥20	Pass
11	2462	47.57	≥20	Pass

Channel 1 (2412MHz)



Date: 15.JUN.2011 20:23:17

Channel 11 (2462MHz)

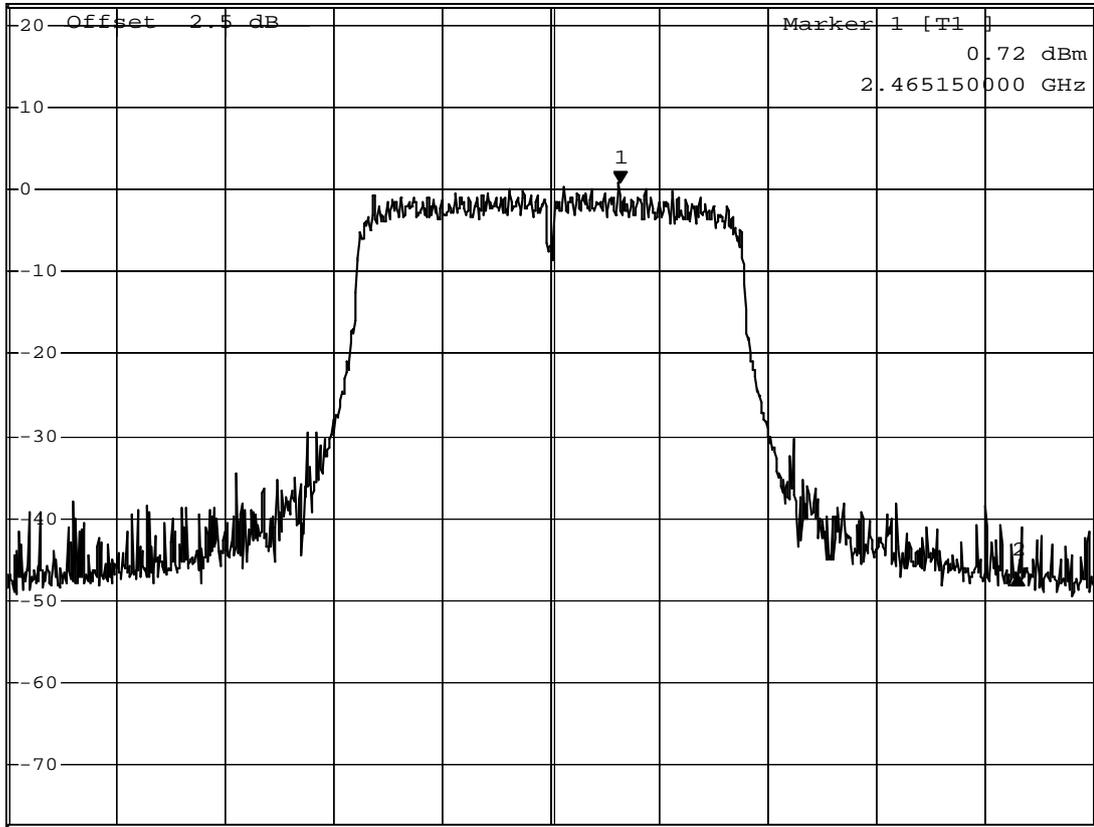


DELTA MARKER 2
18.35 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -47.57 dB
*SWT 100 ms 18.35000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



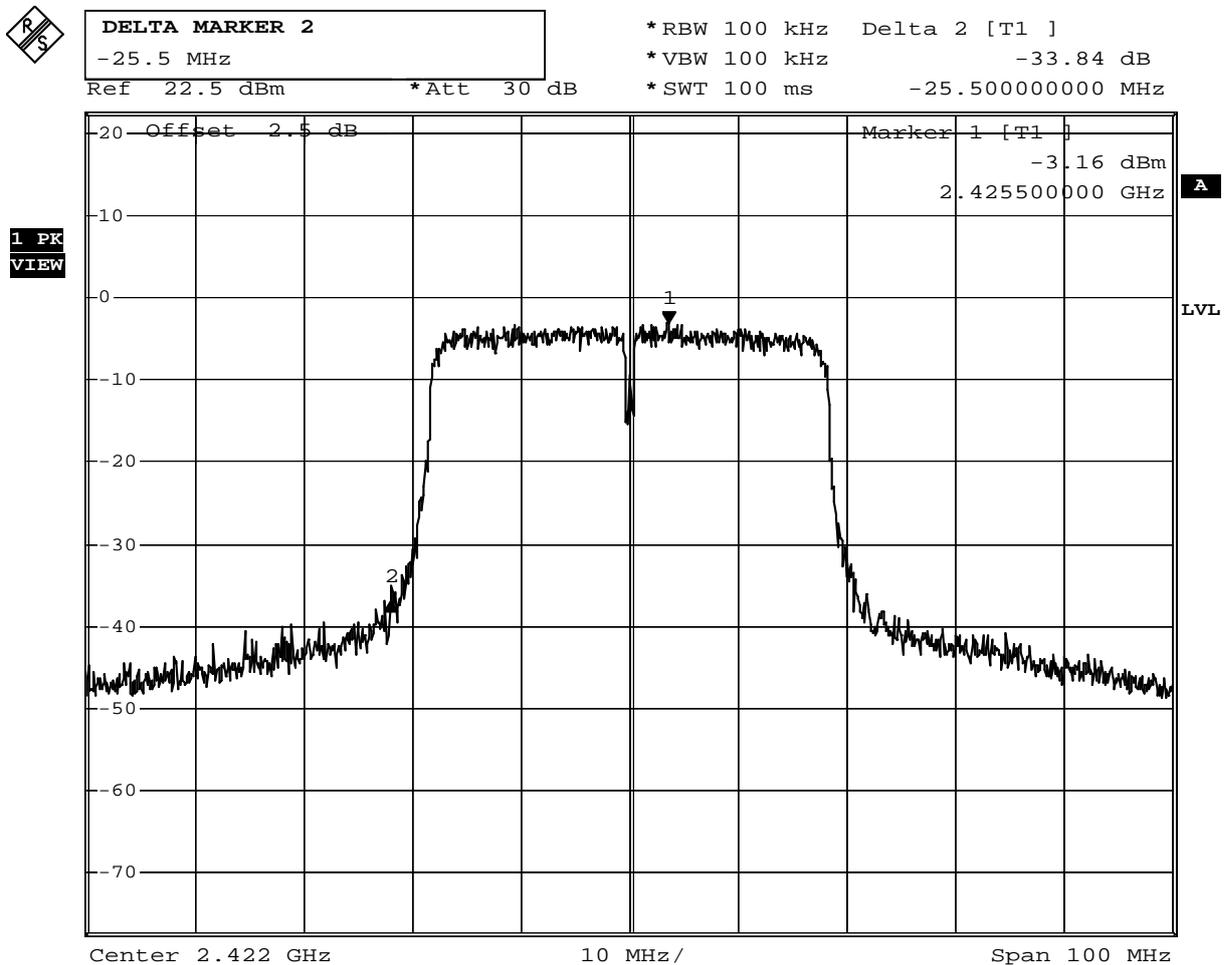
Center 2.462 GHz 5 MHz/ Span 50 MHz

Date: 15.JUN.2011 20:24:52

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT A) Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	33.84	≥20	Pass
9	2452	38.90	≥20	Pass

Channel 3 (2422MHz)



Date: 15.JUN.2011 20:19:58

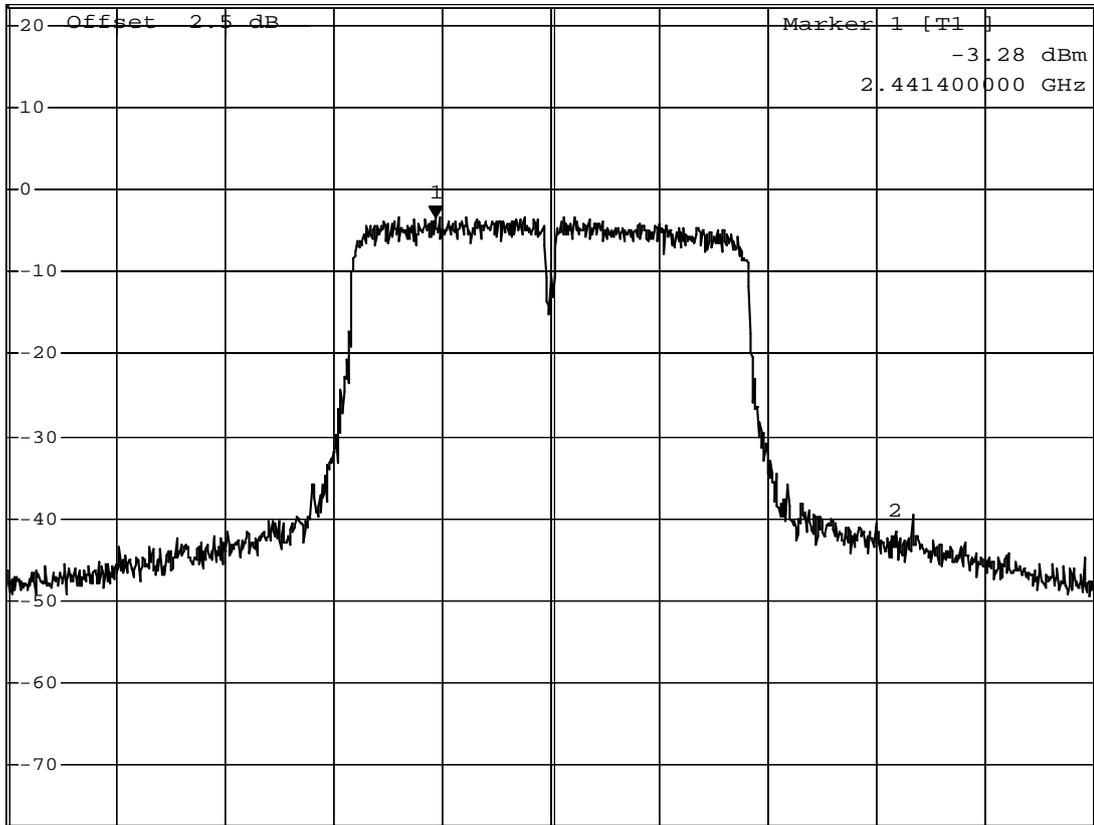
Channel 9 (2452MHz)



DELTA MARKER 2
 42.1 MHz
 Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
 *VBW 100 kHz -38.90 dB
 *SWT 100 ms 42.10000000 MHz

1 PK
 VIEW



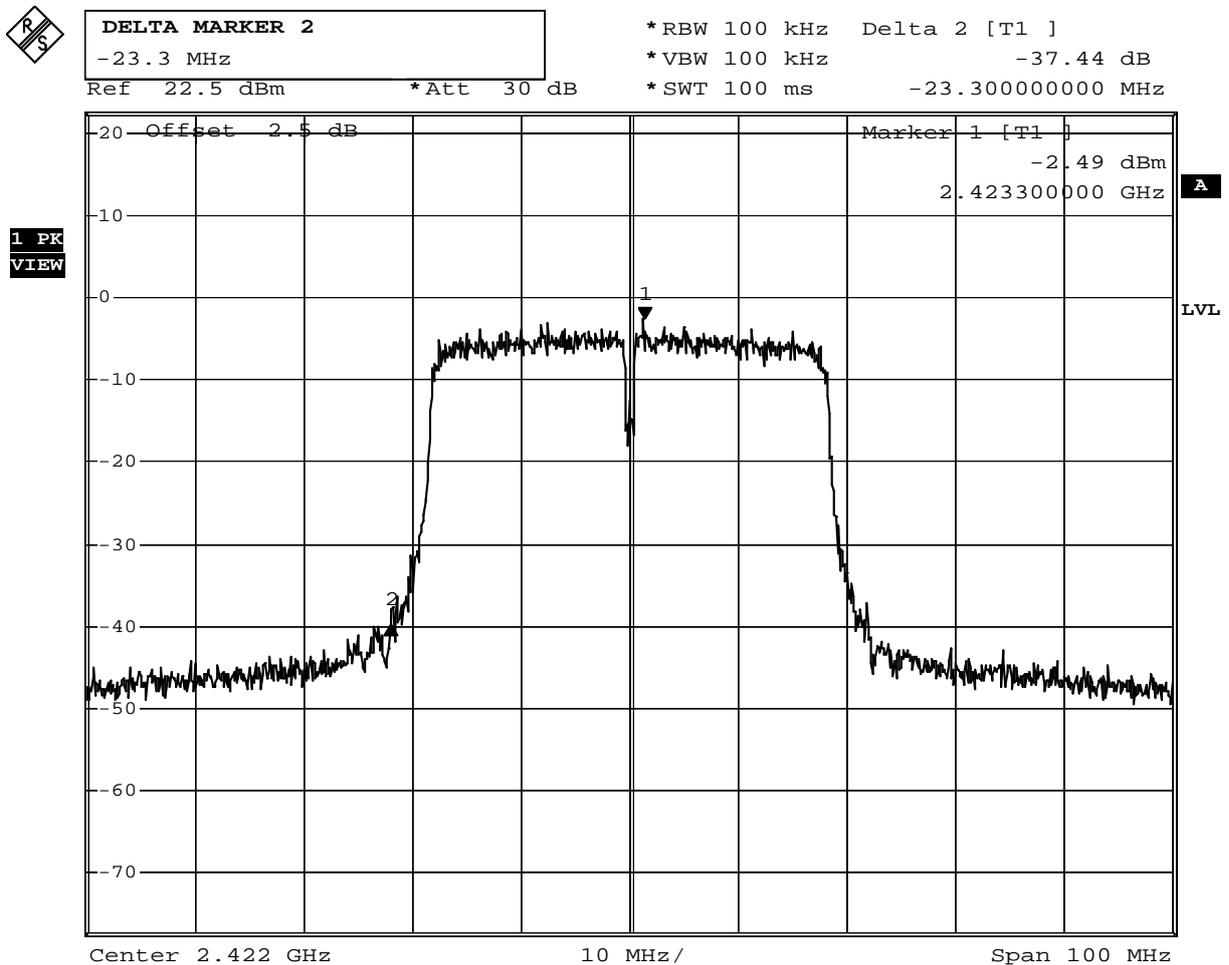
Center 2.452 GHz 10 MHz/ Span 100 MHz

Date: 15.JUN.2011 20:21:06

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT B) Antenna Gain: 1.99dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	37.44	≥20	Pass
9	2452	44.53	≥20	Pass

Channel 3 (2422MHz)



Date: 15.JUN.2011 20:25:51

Channel 9 (2452MHz)

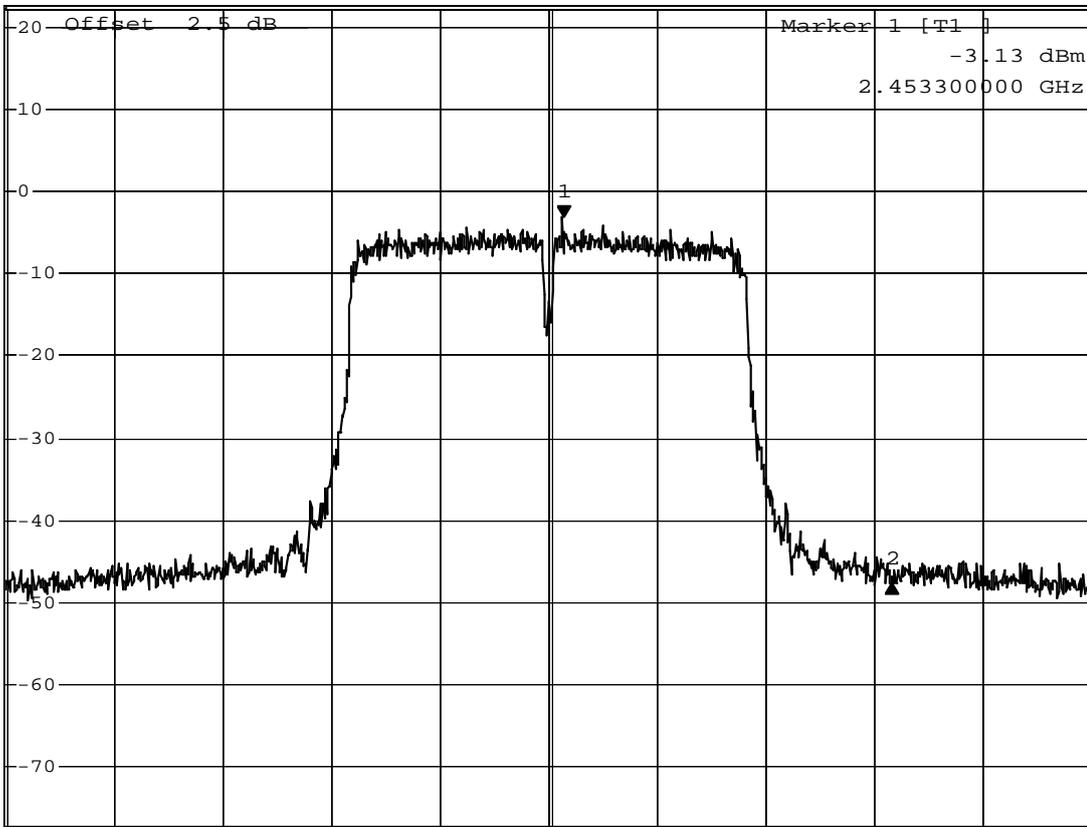


DELTA MARKER 2
30.2 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -44.53 dB
*SWT 100 ms 30.20000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW

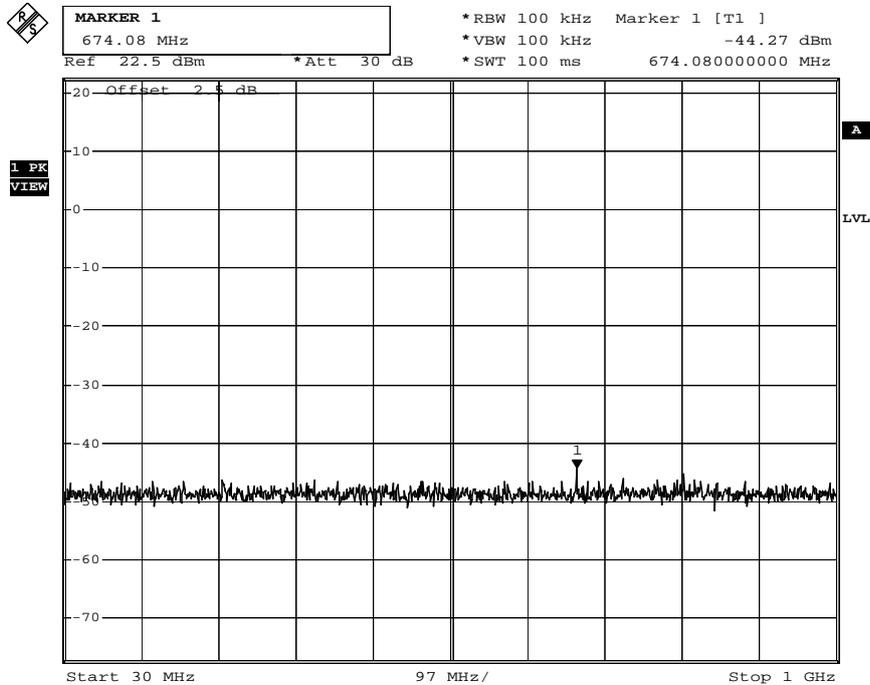


Center 2.452 GHz 10 MHz/ Span 100 MHz

Date: 15.JUN.2011 20:26:35

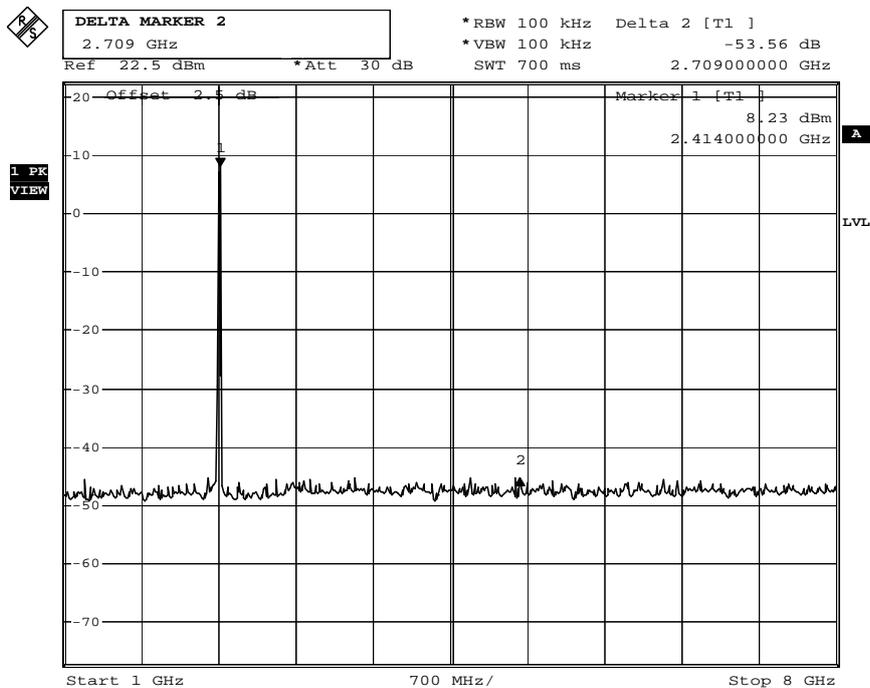
Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

2412MHz (30MHz~1GHz)-802.11b



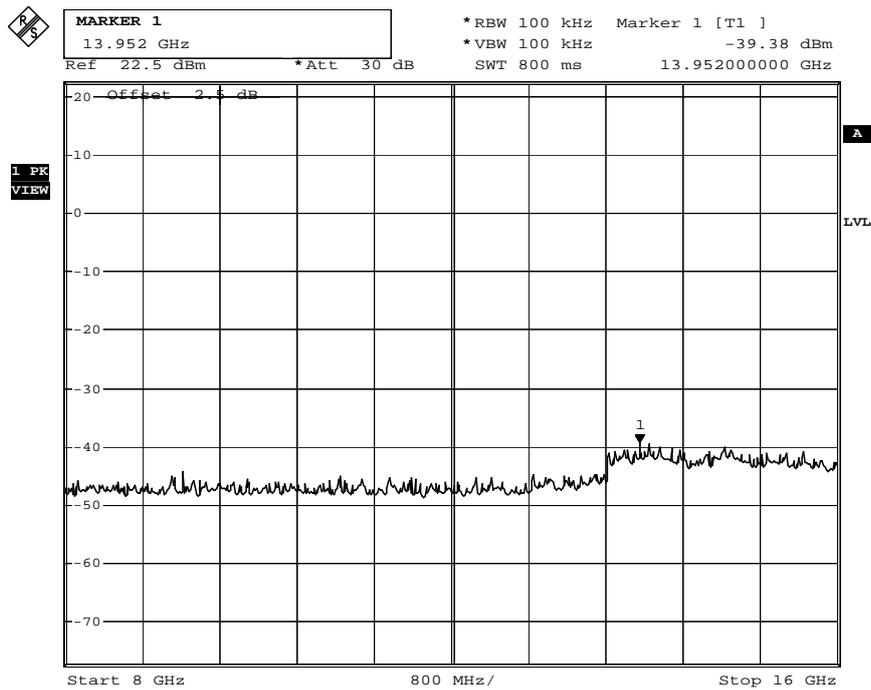
Date: 15.JUN.2011 20:29:39

2412MHz (1GHz~8GHz)-802.11b



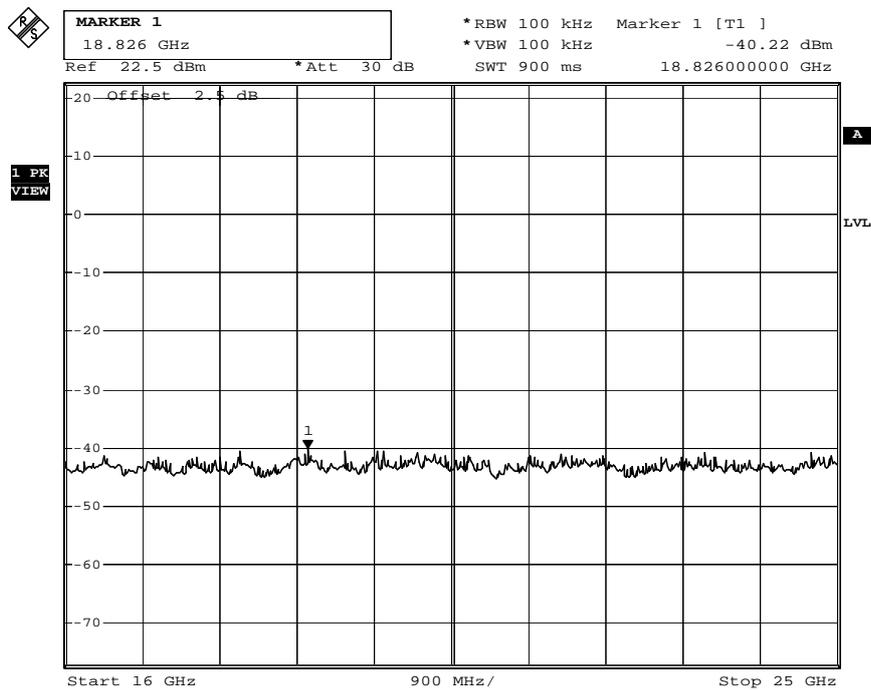
Date: 15.JUN.2011 20:33:00

2412MHz (8GHz~16GHz)-802.11b



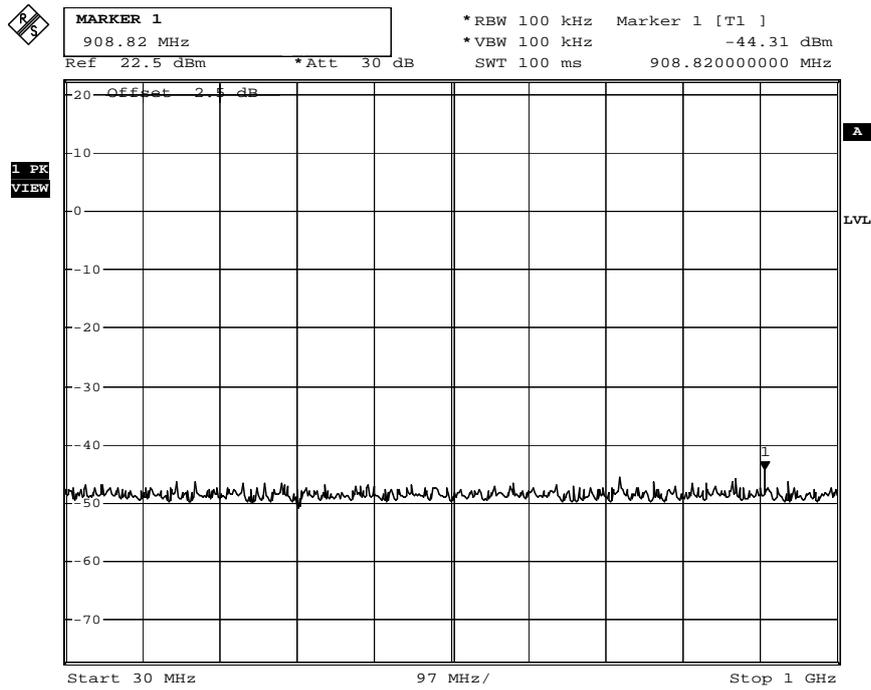
Date: 15.JUN.2011 20:33:39

2412MHz (16GHz~25GHz)-802.11b



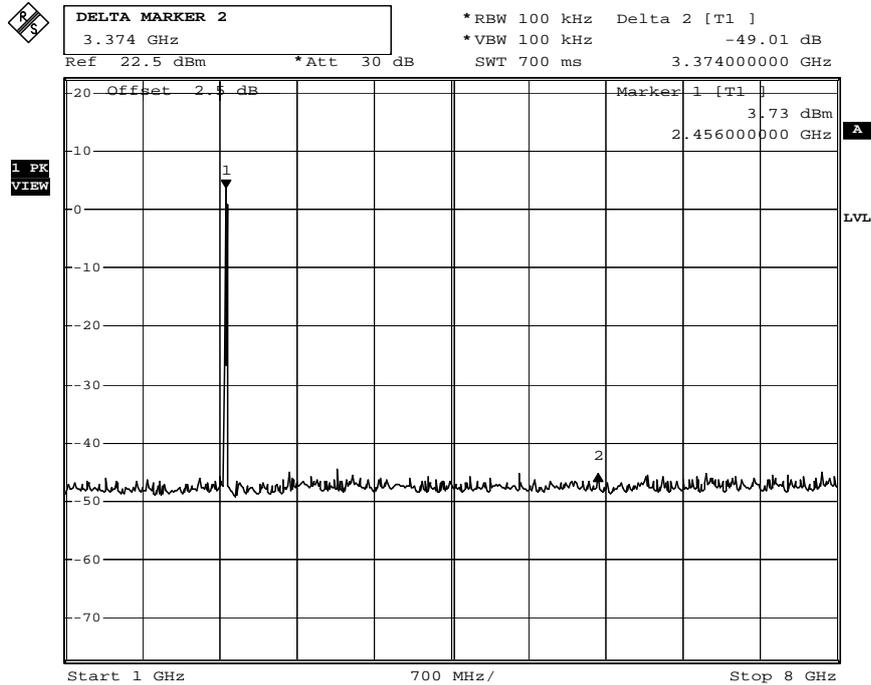
Date: 15.JUN.2011 20:34:08

2462MHz (30MHz~1GHz)-802.11b



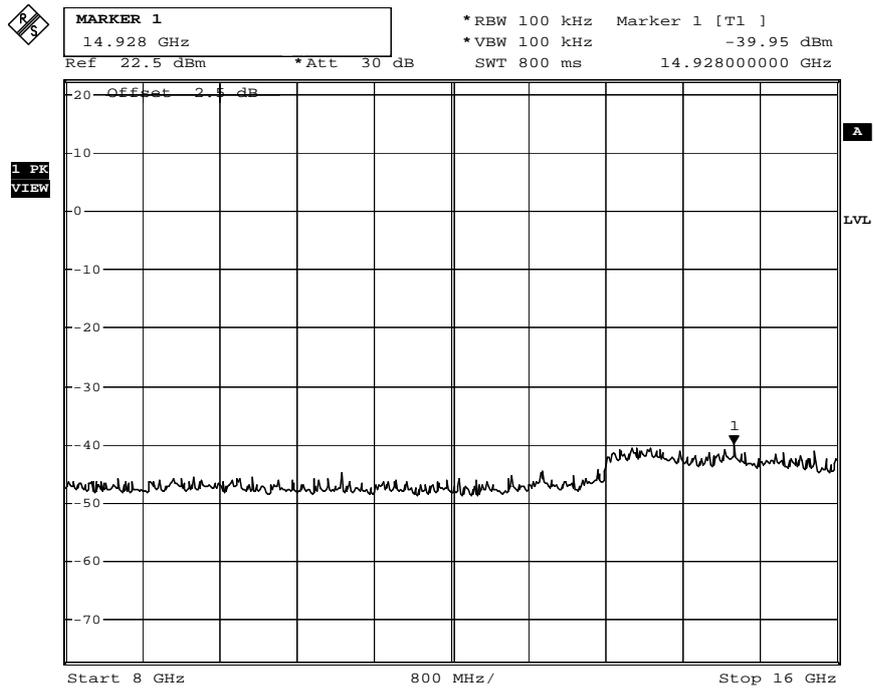
Date: 15.JUN.2011 20:35:04

2462MHz (1GHz~8GHz)-802.11b



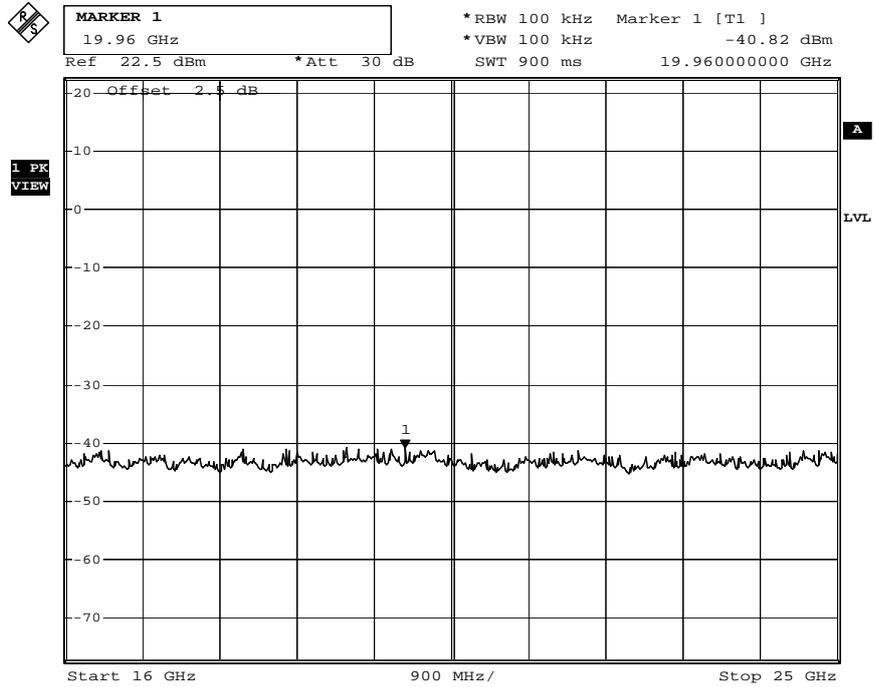
Date: 15.JUN.2011 20:36:01

2462MHz (8GHz~16GHz)-802.11b



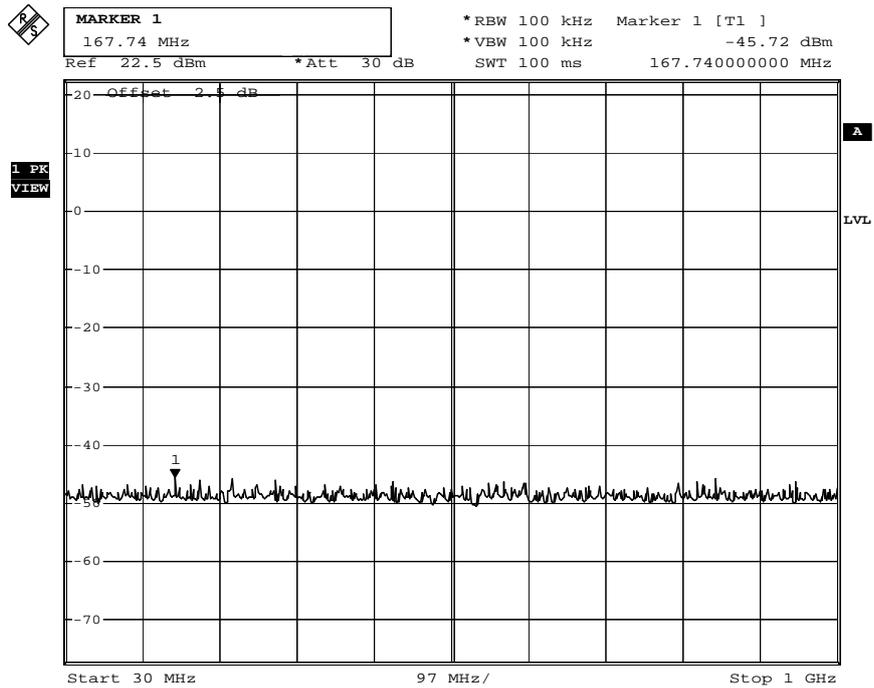
Date: 15.JUN.2011 20:36:36

2462MHz (16GHz~25GHz)-802.11b



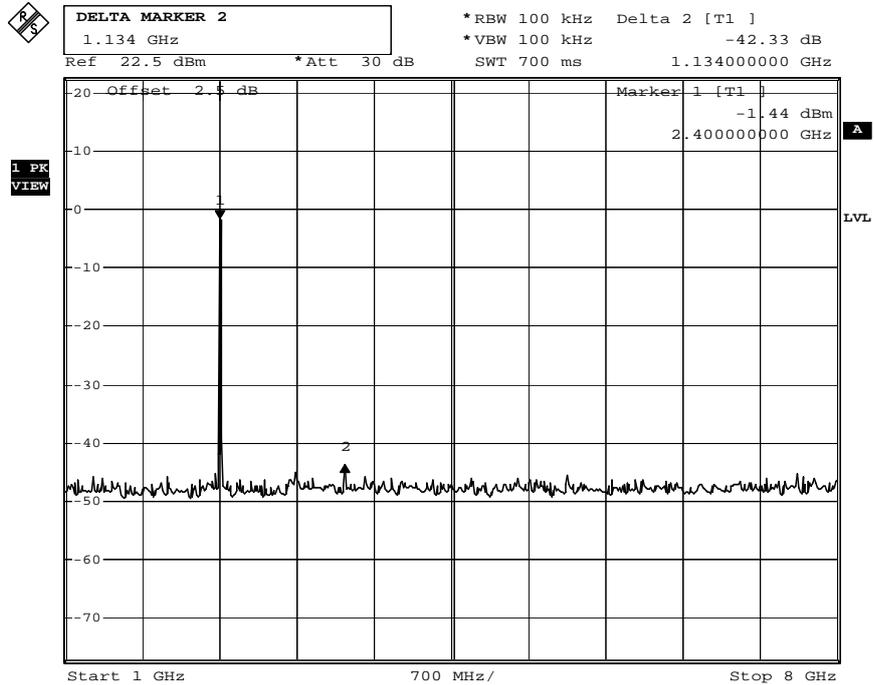
Date: 15.JUN.2011 20:37:10

2412MHz (30MHz~1GHz)-802.11g



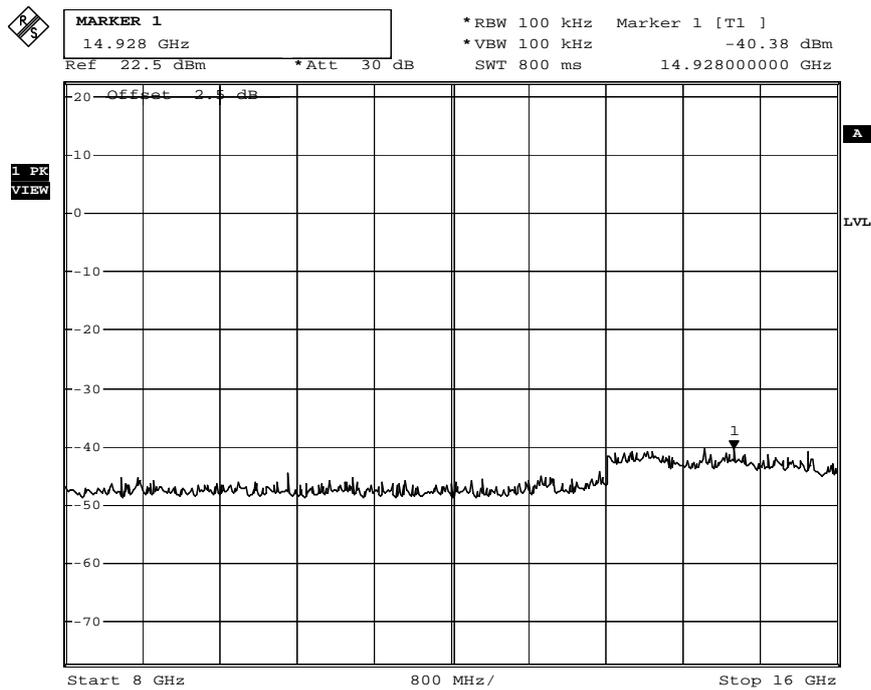
Date: 15.JUN.2011 20:38:19

2412MHz (1GHz~8GHz)-802.11g



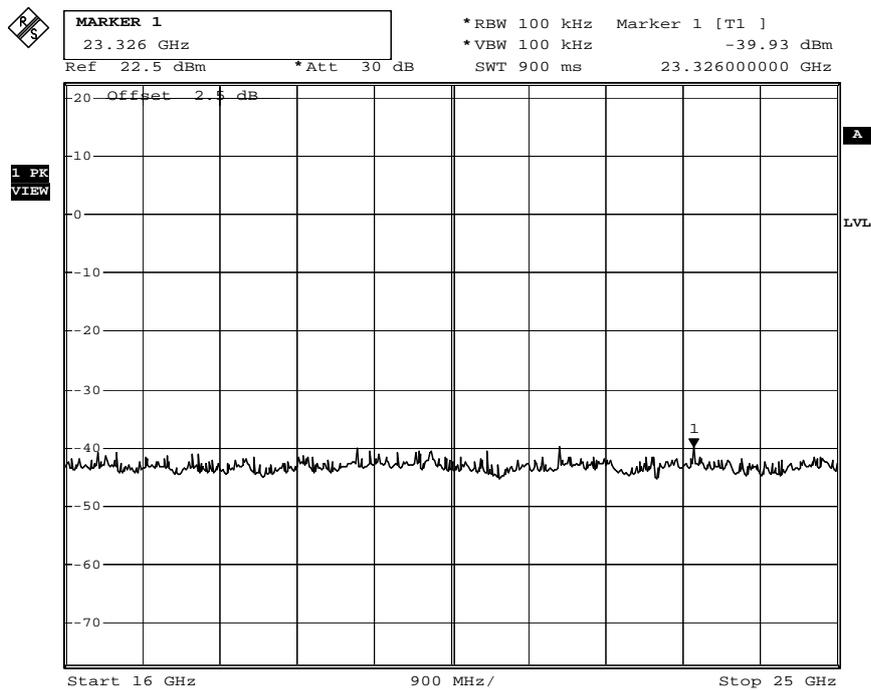
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2412MHz (8GHz~16GHz)-802.11g



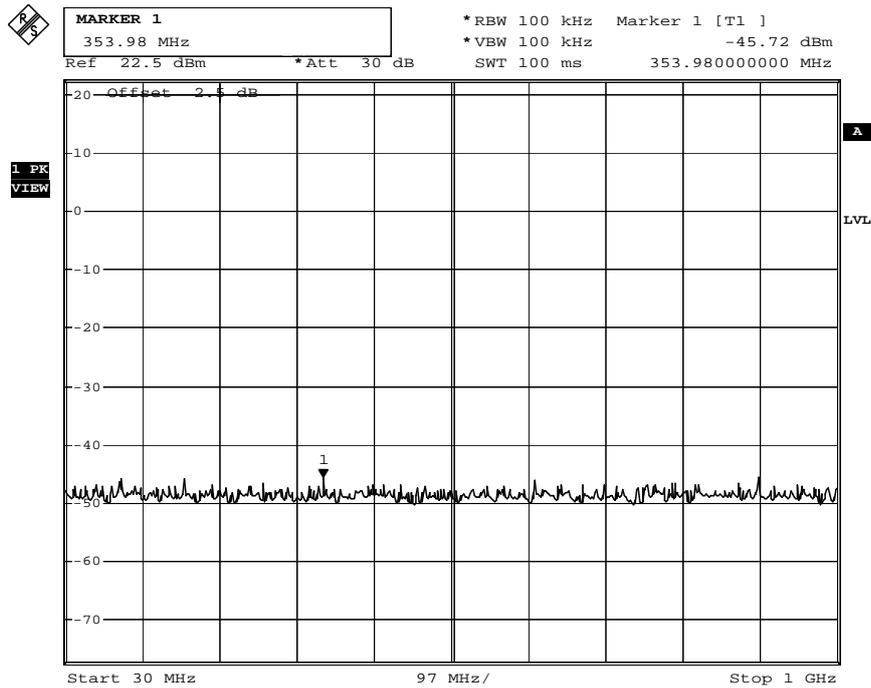
Date: 15.JUN.2011 20:40:03

2412MHz (16GHz~25GHz)-802.11g



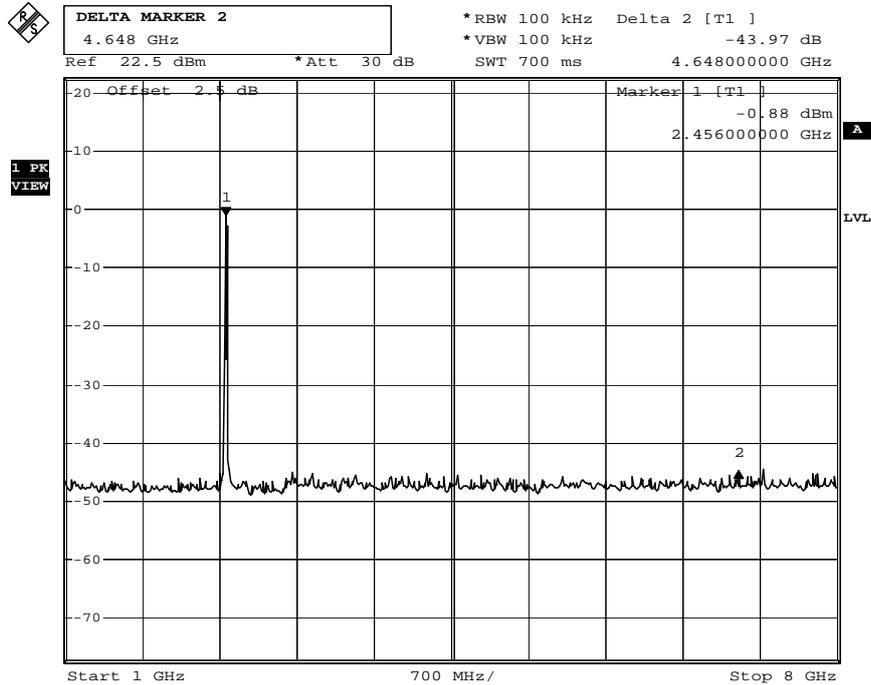
Date: 15.JUN.2011 20:40:44

2462MHz (30MHz~1GHz)-802.11g



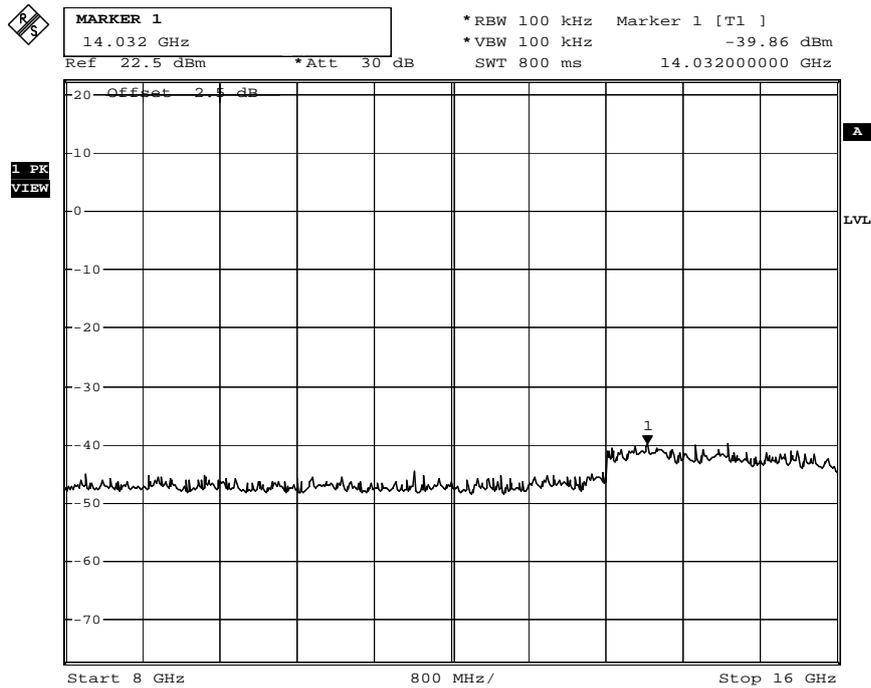
Date: 15.JUN.2011 20:41:41

2462MHz (1GHz~8GHz)-802.11g



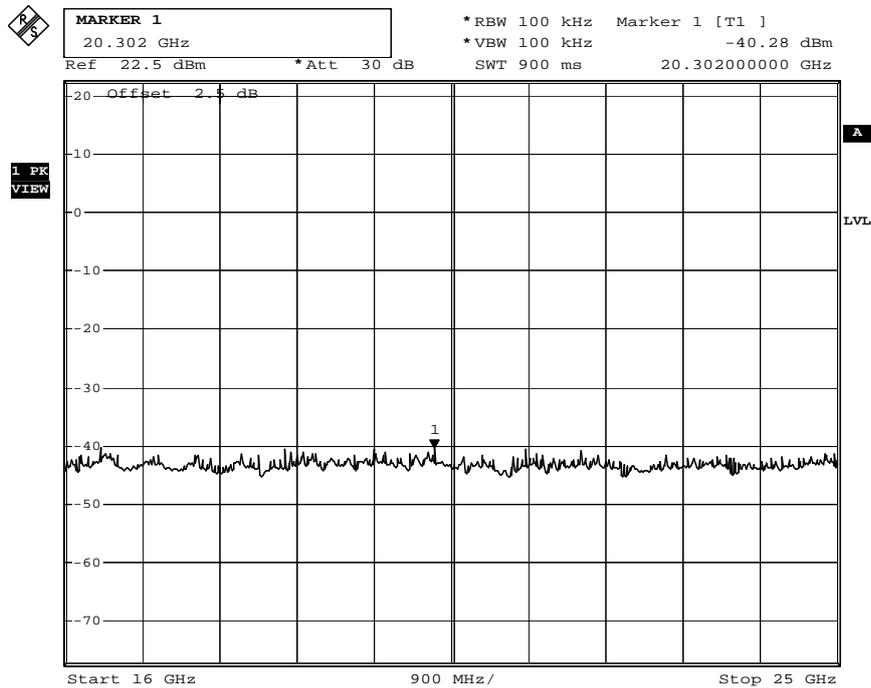
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2462MHz (8GHz~16GHz)-802.11g



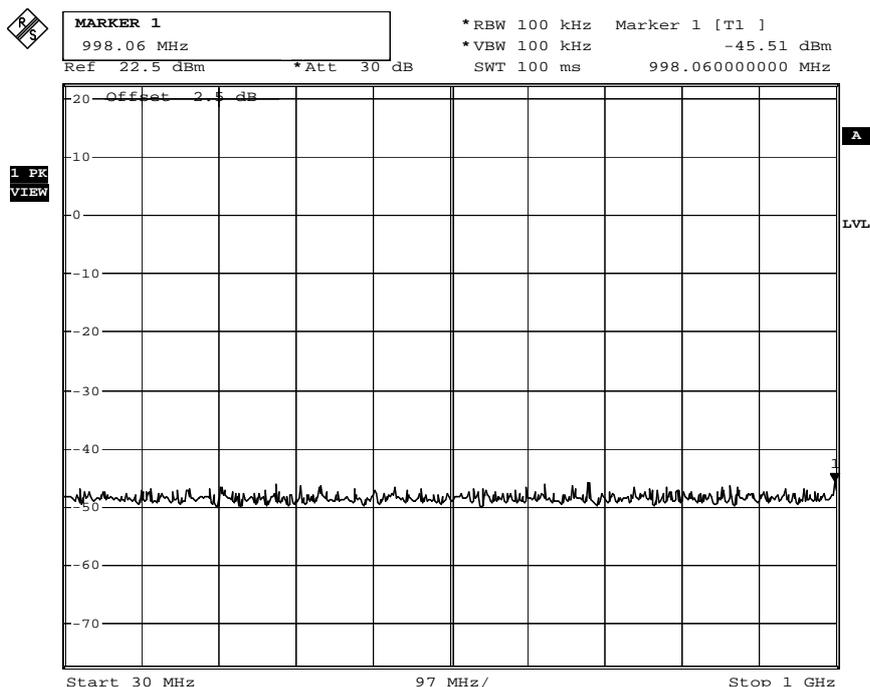
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2462MHz (16GHz~25GHz)-802.11g



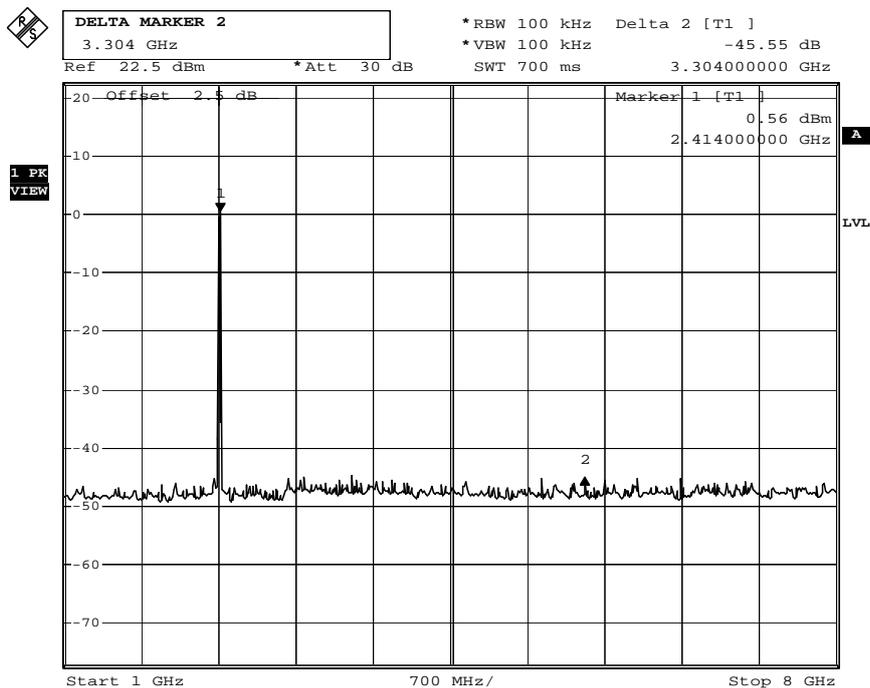
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2412MHz (30MHz~1GHz)-802.11n(20M)-ANT A



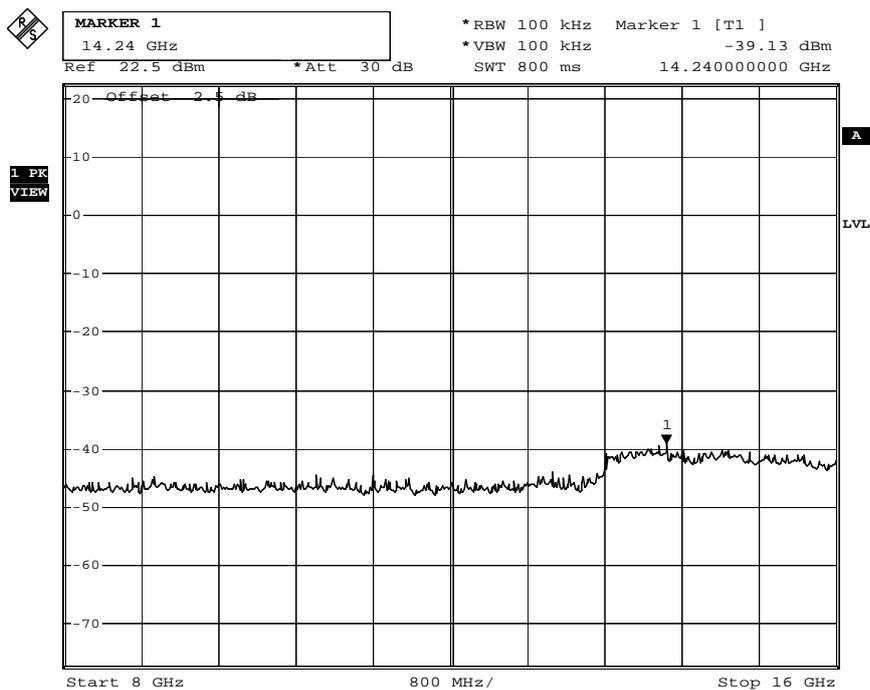
Date: 15.JUN.2011 20:45:55

2412MHz (1GHz~8GHz)-802.11n(20M)-ANT A



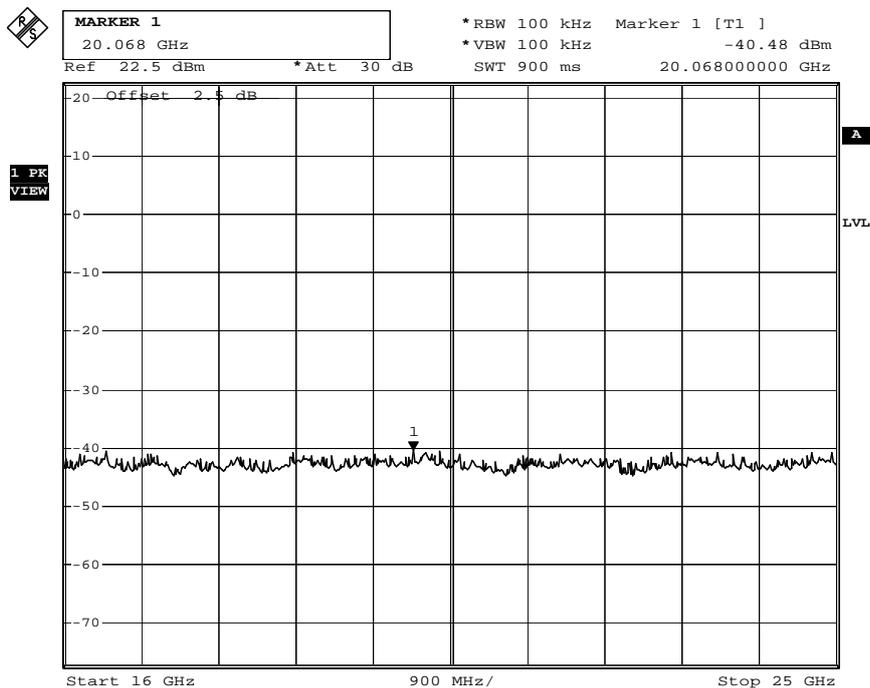
Date: 15.JUN.2011 20:47:50

2412MHz (8GHz~16GHz) -802.11n(20M)-ANT A



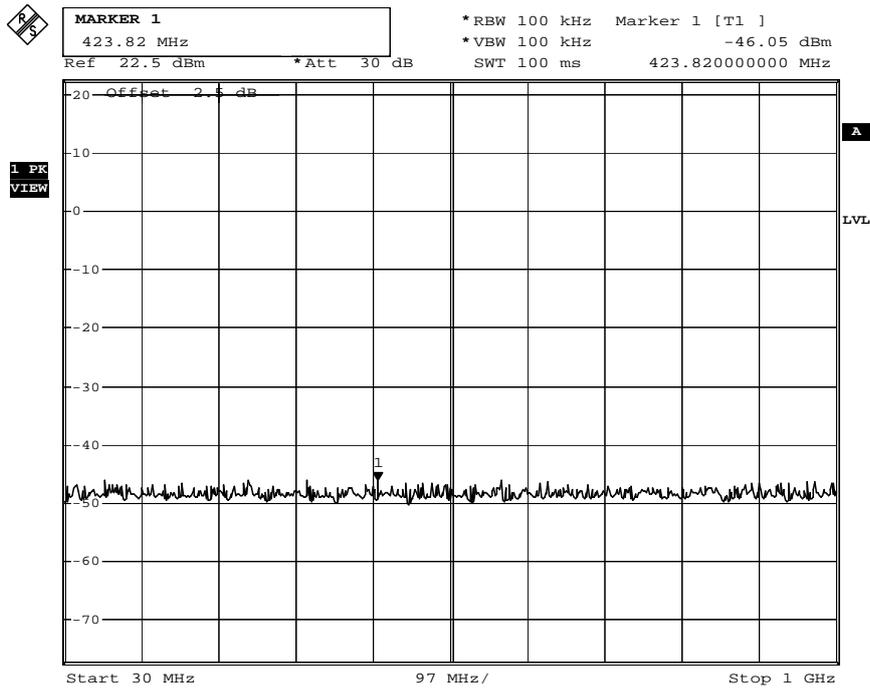
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2412MHz (16GHz~25GHz) -802.11n(20M)-ANT A



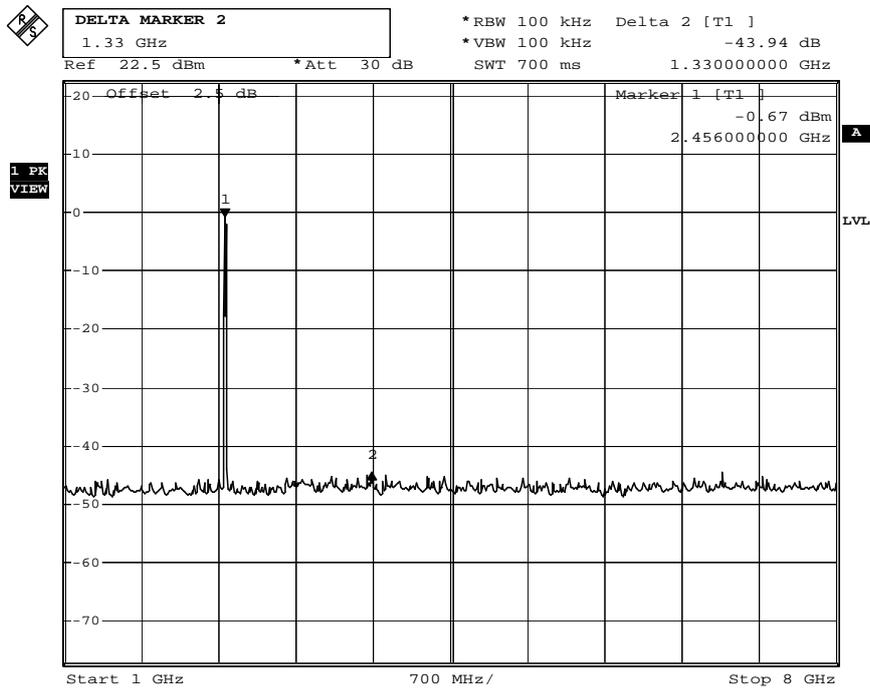
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2462MHz (30MHz~1GHz)-802.11n(20M)-ANT A



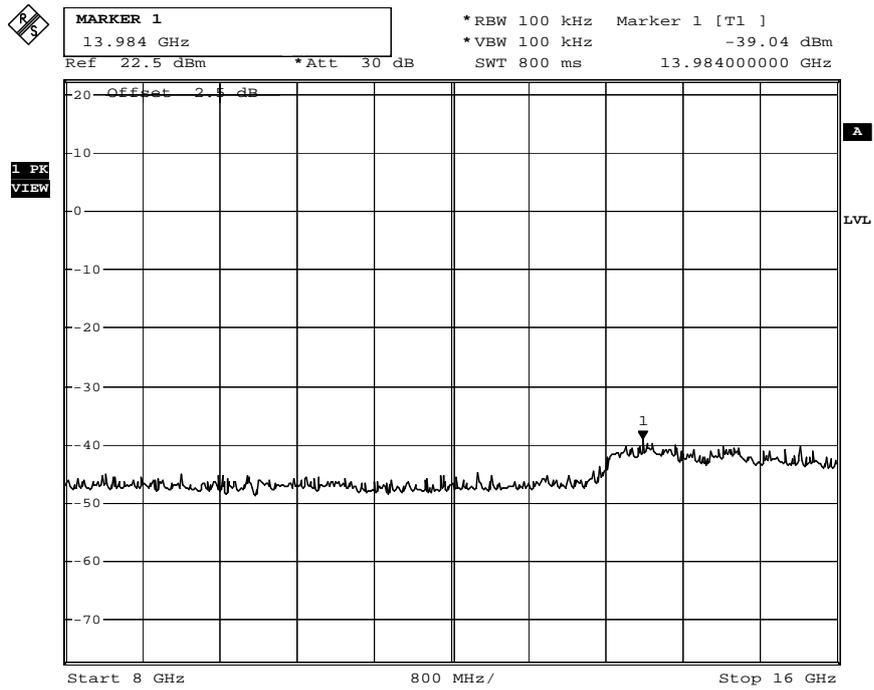
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2462MHz (1GHz~8GHz)-802.11n(20M)-ANT A



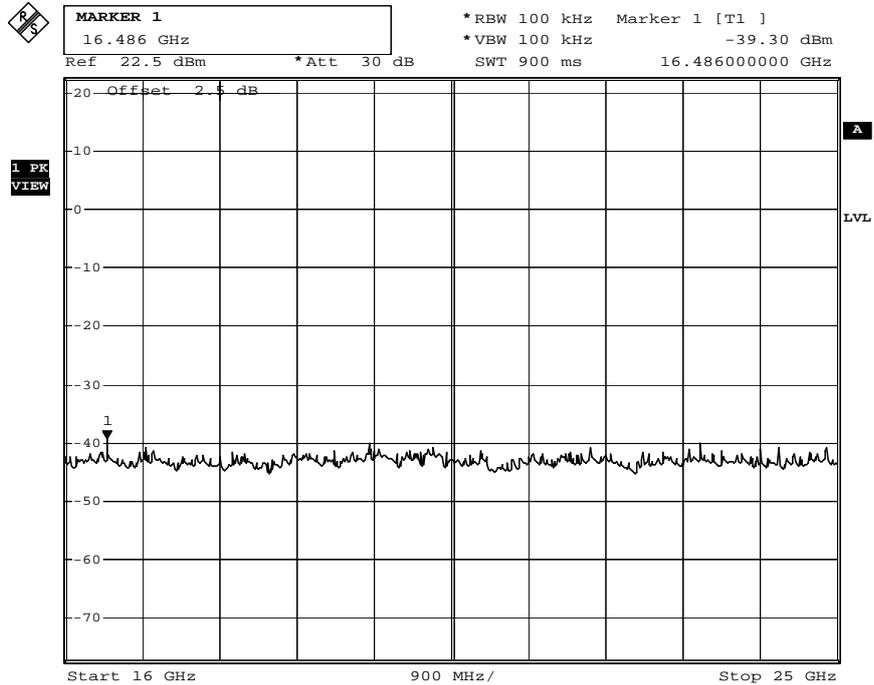
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2462MHz (8GHz~16GHz) -802.11n(20M)-ANT A



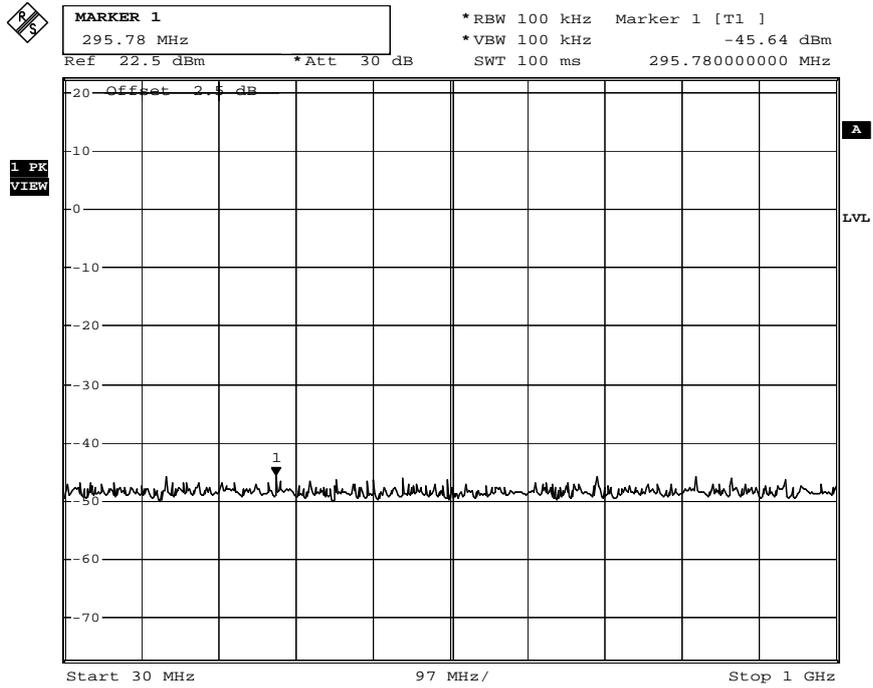
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2462MHz (16GHz~25GHz) -802.11n(20M)-ANT A



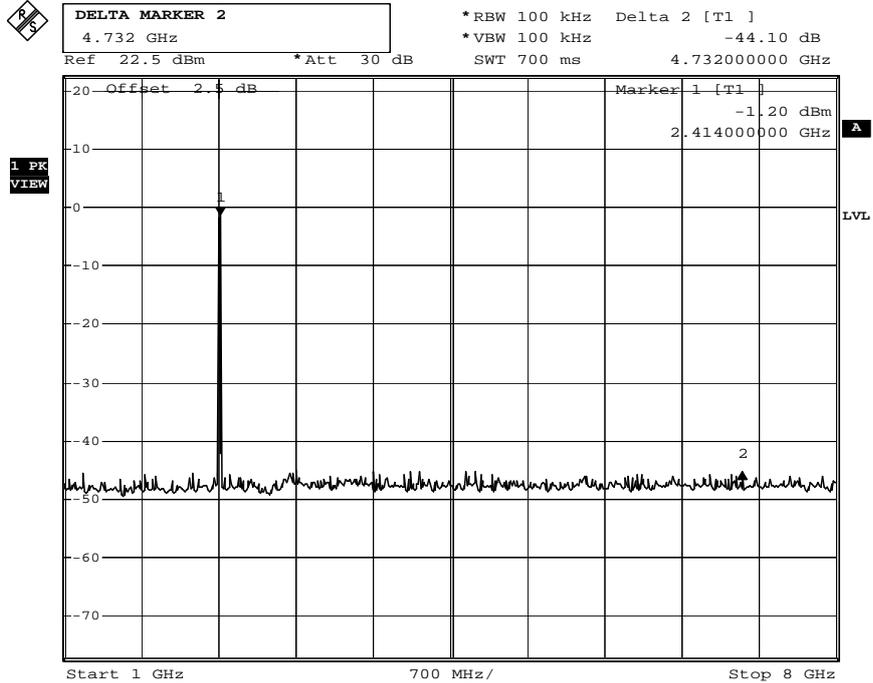
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2412MHz (30MHz~1GHz)-802.11n(20M)-ANT B



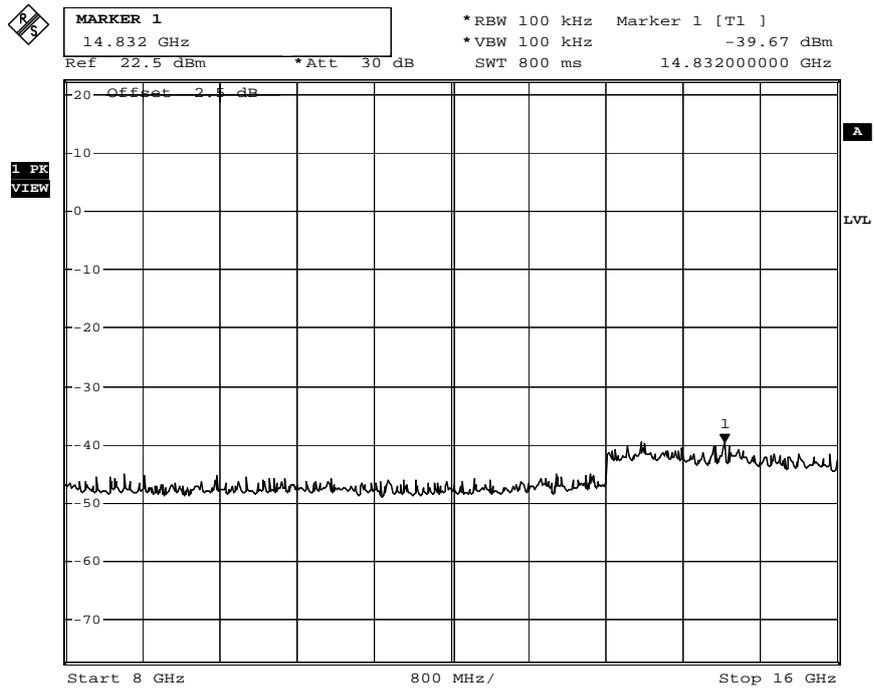
Date: 15.JUN.2011 21:07:05

2412MHz (1GHz~8GHz)-802.11n(20M)-ANT B



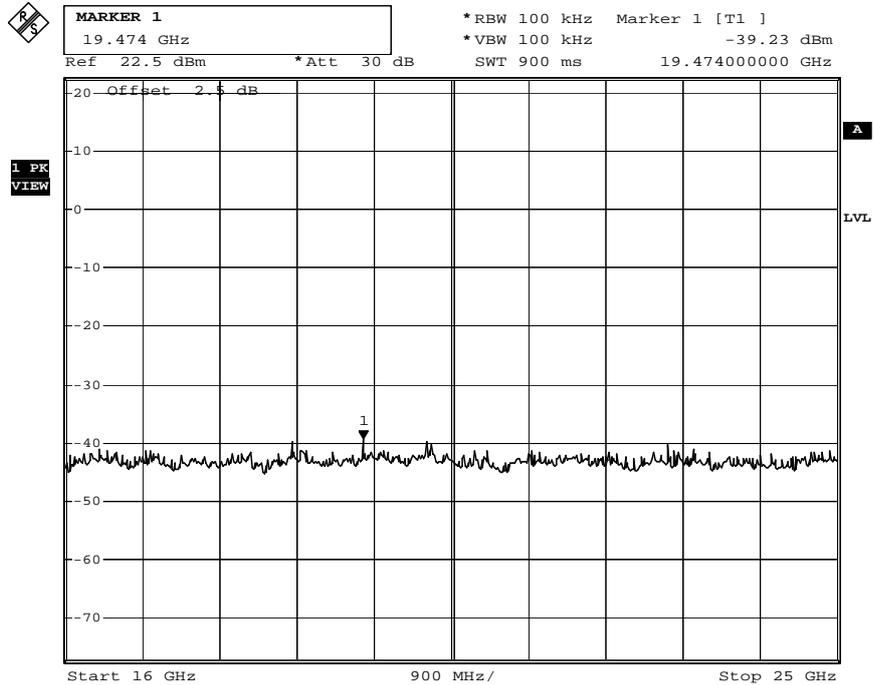
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2412MHz (8GHz~16GHz) -802.11n(20M)-ANT B



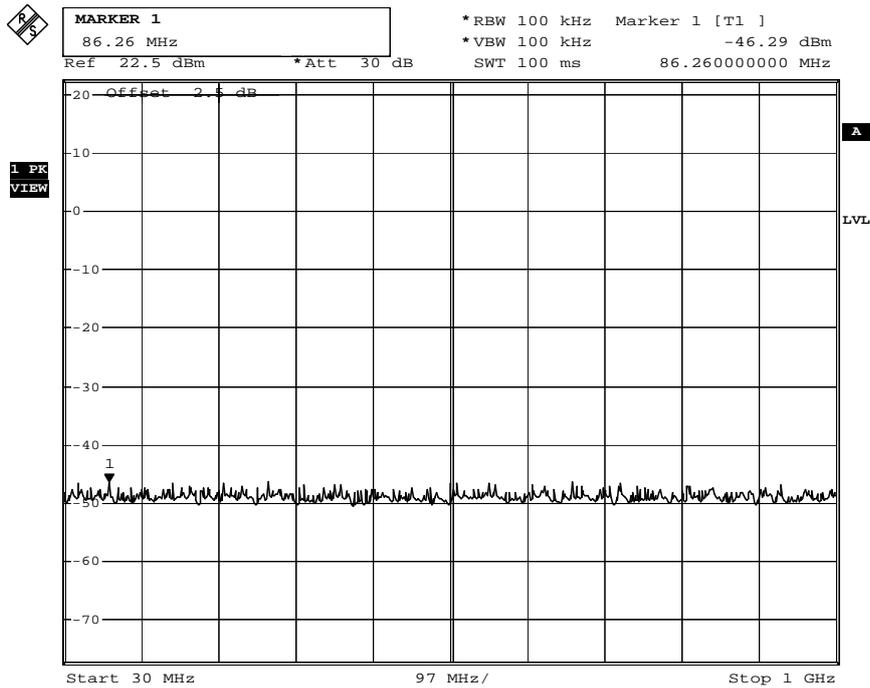
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2412MHz (16GHz~25GHz) -802.11n(20M)-ANT B



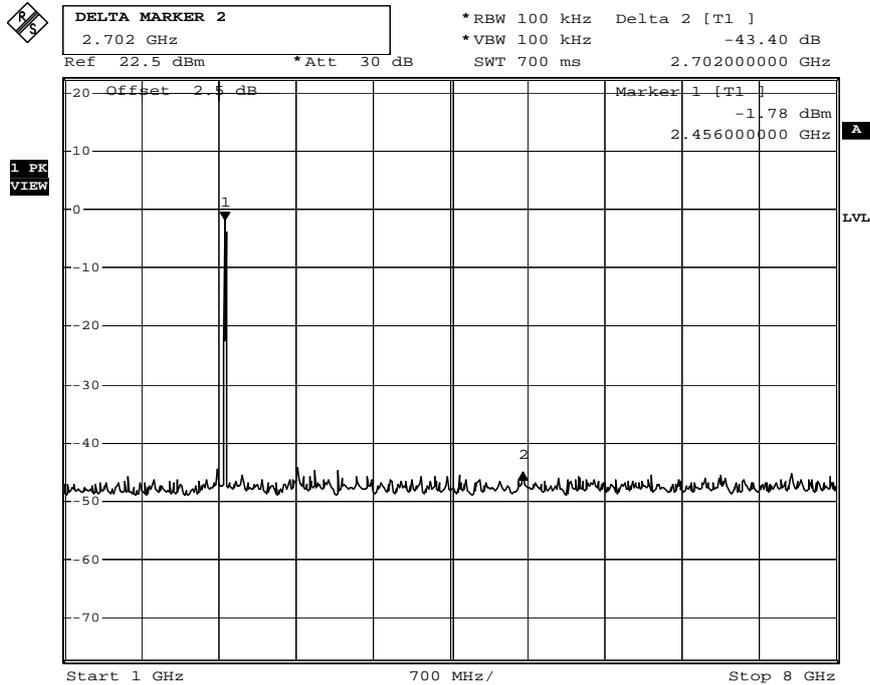
Date: 15.JUN.2011 21:09:28

2462MHz (30MHz~1GHz)-802.11n(20M)-ANT B



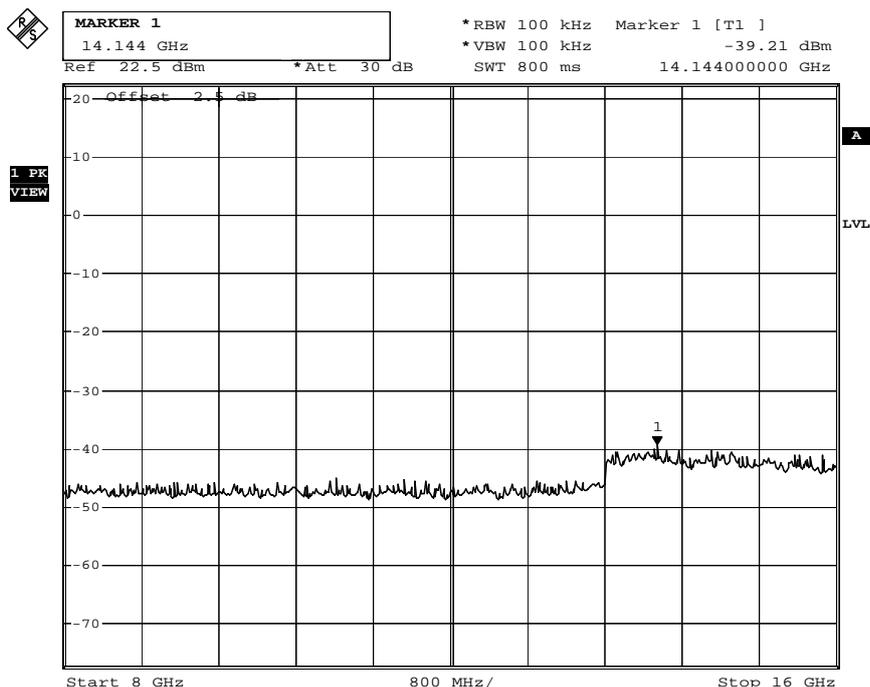
Date: 15.JUN.2011 21:12:15

2462MHz (1GHz~8GHz)-802.11n(20M)-ANT B



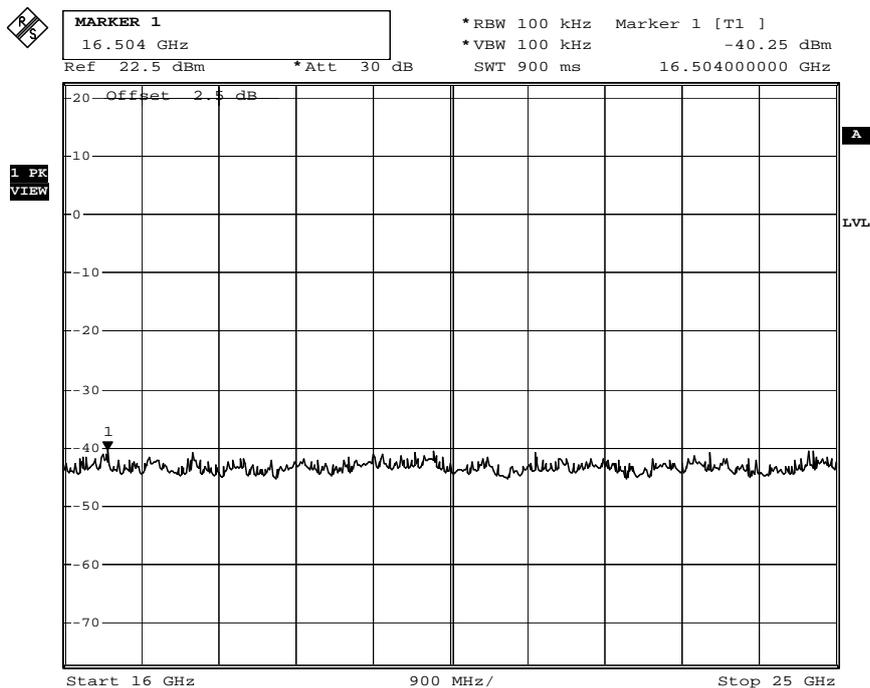
Date: 15.JUN.2011 21:15:41

2462MHz (8GHz~16GHz) -802.11n(20M)-ANT B



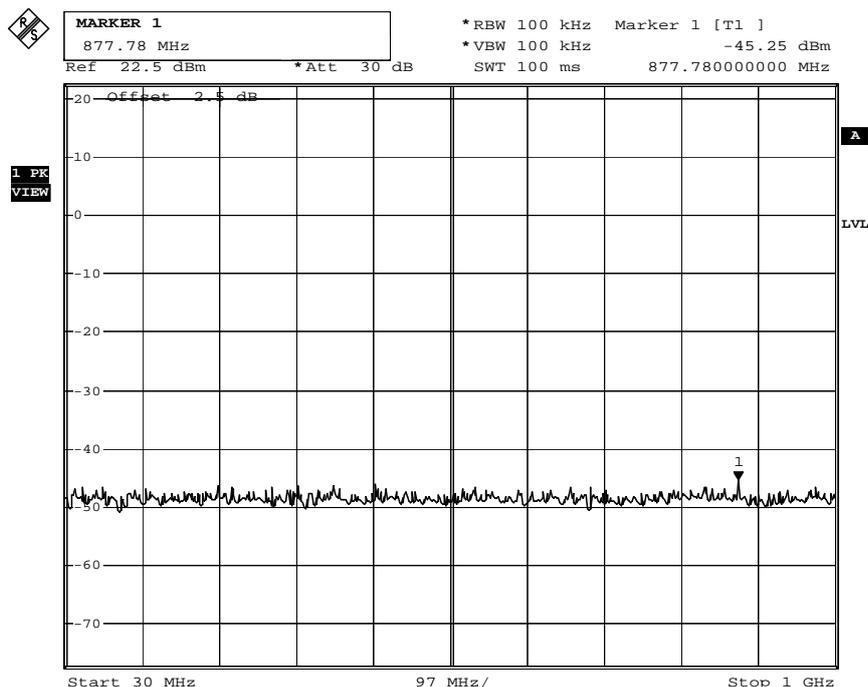
Date: 15.JUN.2011 21:13:40

2462MHz (16GHz~25GHz) -802.11n(20M)-ANT B



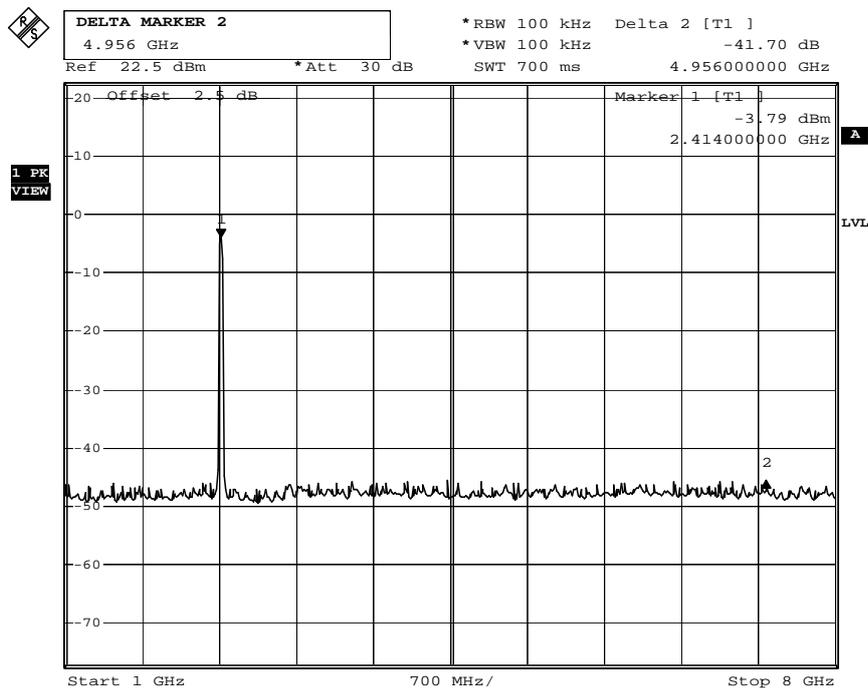
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2422MHz (30MHz~1GHz)-802.11n(40M)-ANT A



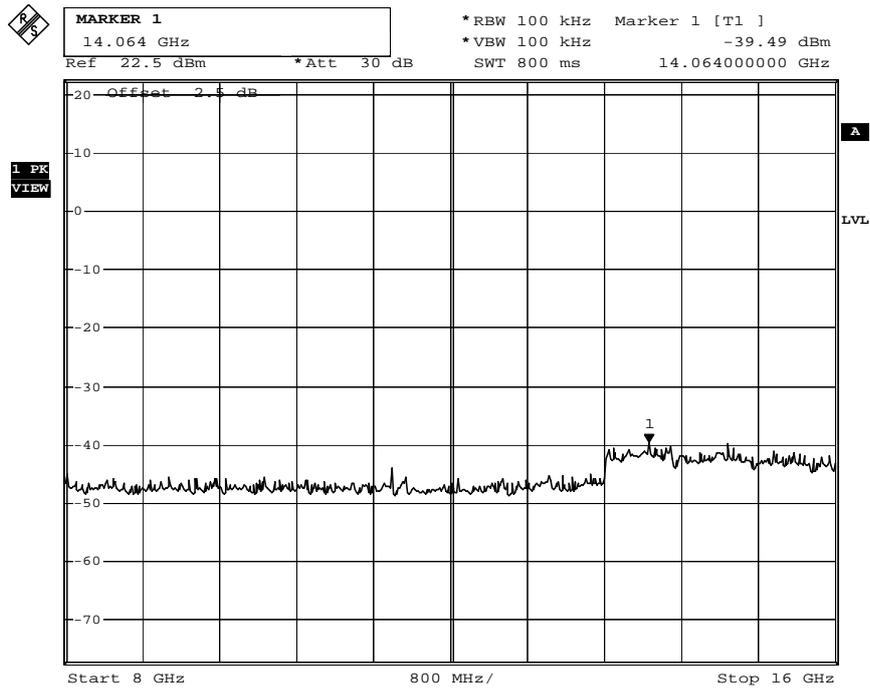
Date: 15.JUN.2011 20:55:44

2422MHz (1GHz~8GHz)-802.11n(40M)-ANT A



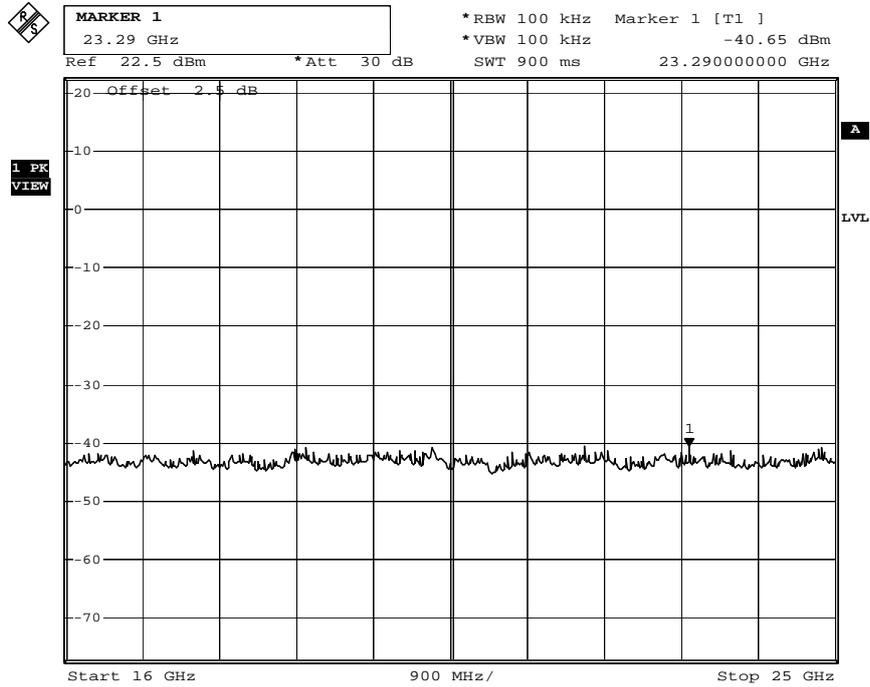
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2422MHz (8GHz~16GHz) -802.11n(40M)-ANT A



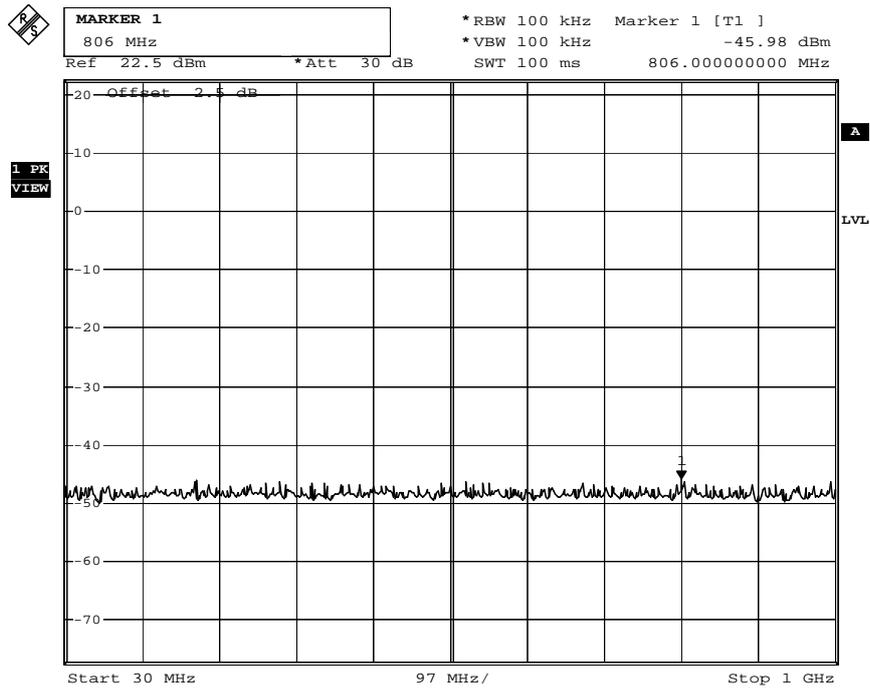
Date: 15.JUN.2011 20:57:38

2422MHz (16GHz~25GHz) -802.11n(40M)-ANT A



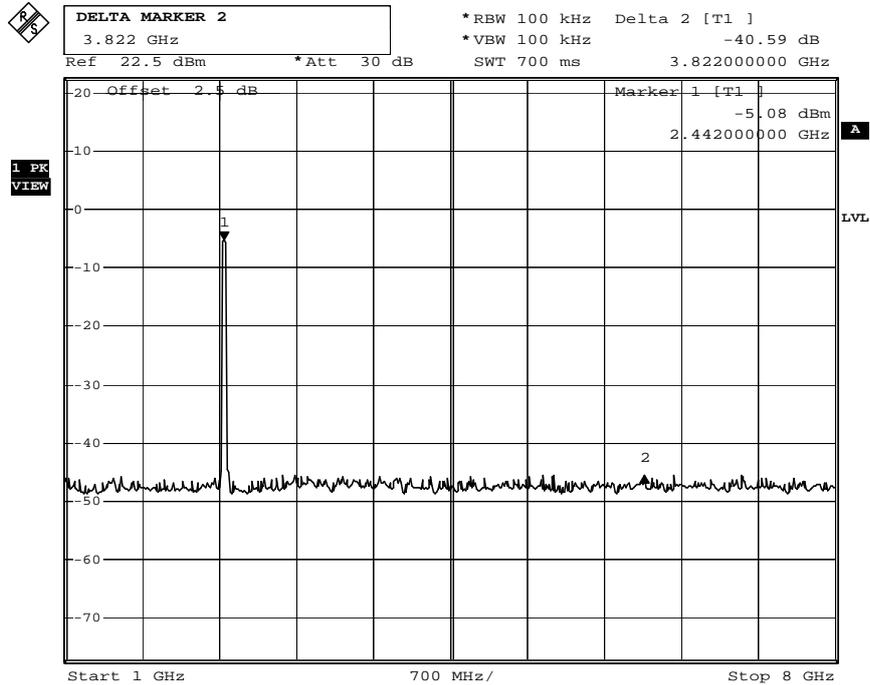
Date: 15.JUN.2011 20:58:04

2452MHz (30MHz~1GHz)-802.11n(40M)-ANT A



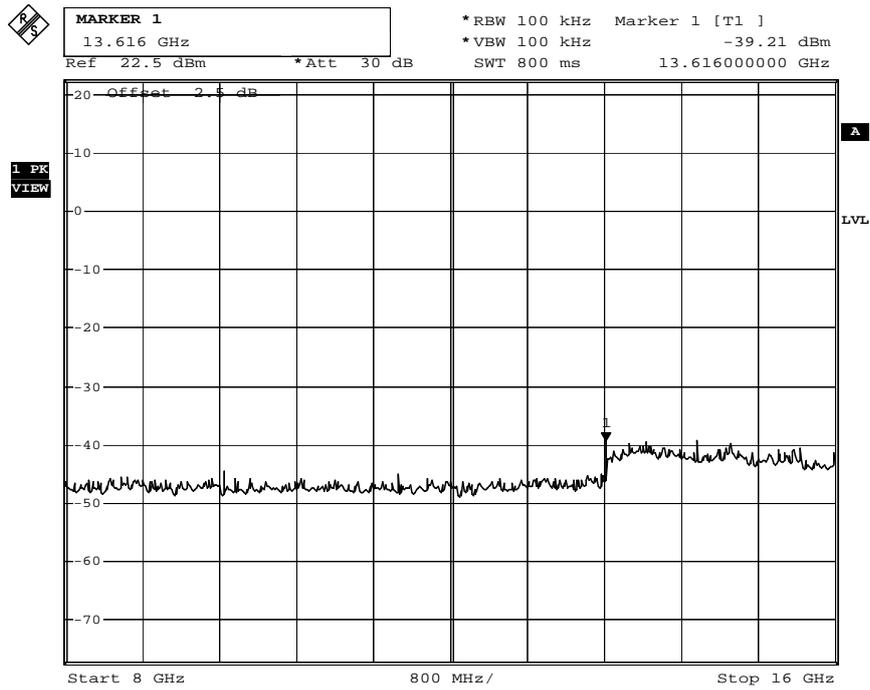
Date: 15.JUN.2011 20:58:58

2452MHz (1GHz~8GHz)-802.11n(40M)-ANT A



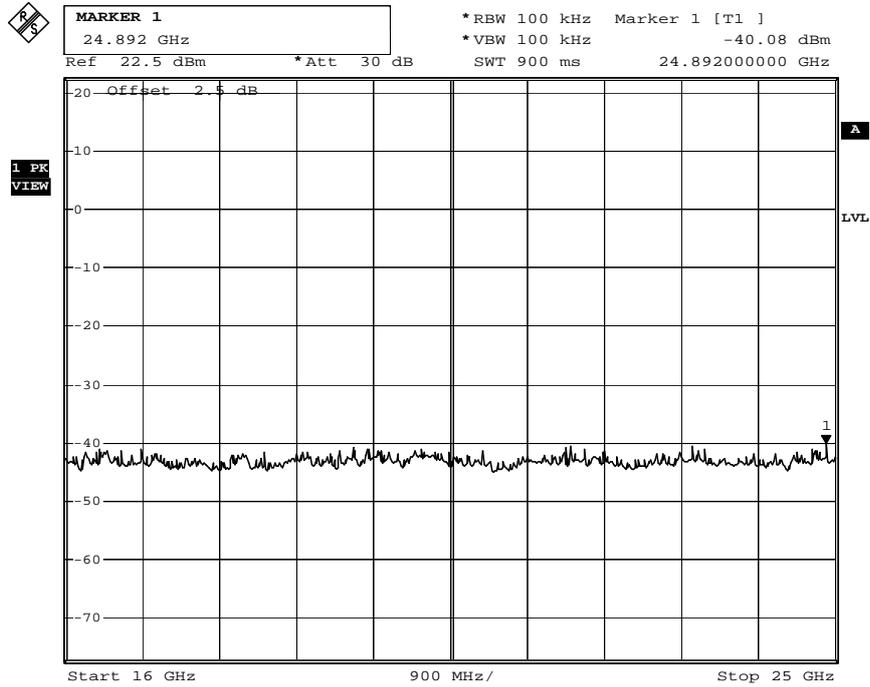
Date: 15.JUN.2011 21:00:09

2452MHz (8GHz~16GHz) -802.11n(40M)-ANT A



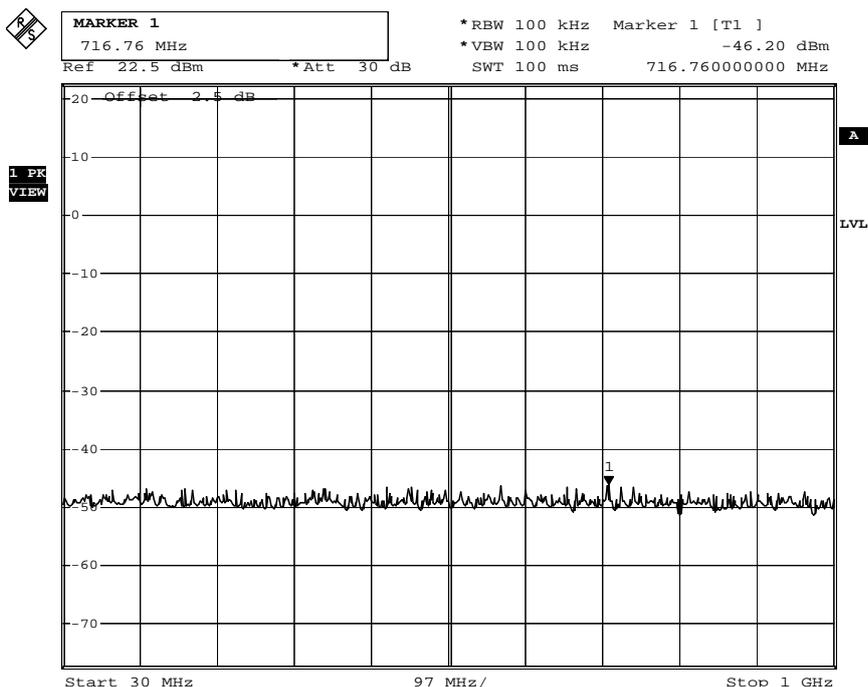
Date: 15.JUN.2011 21:00:40

2452MHz (16GHz~25GHz) -802.11n(40M)-ANT A



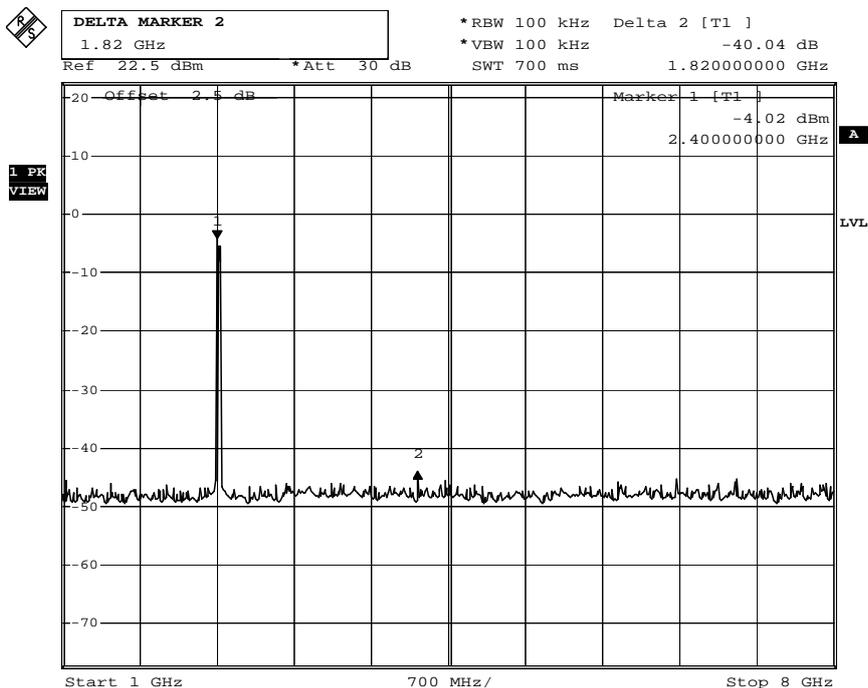
Date: 15.JUN.2011 21:01:03

2422MHz (30MHz~1GHz)-802.11n(40M)-ANT B



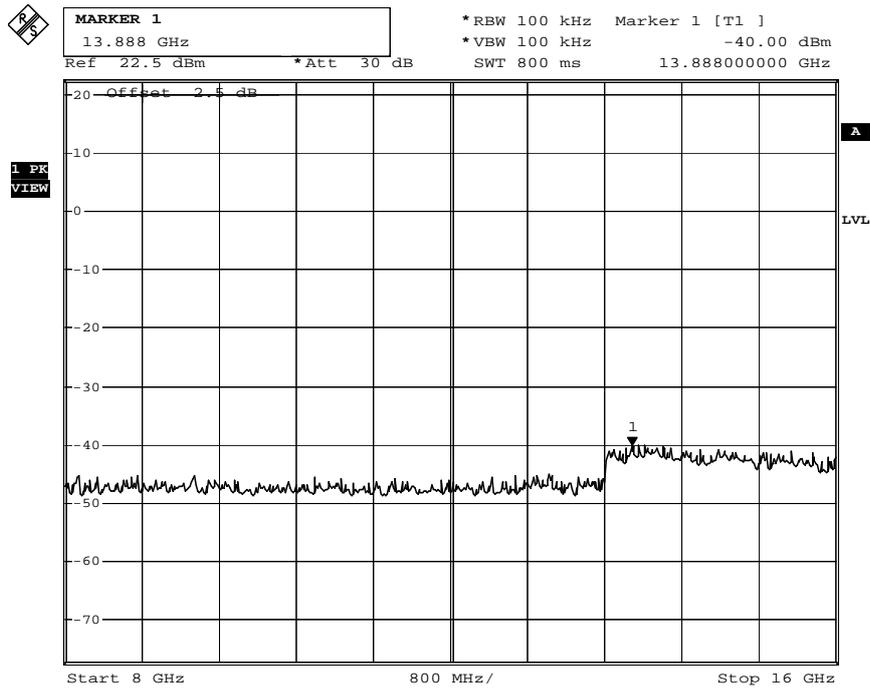
Date: 15.JUN.2011 21:12:43

2422MHz (1GHz~8GHz)-802.11n(40M)-ANT B



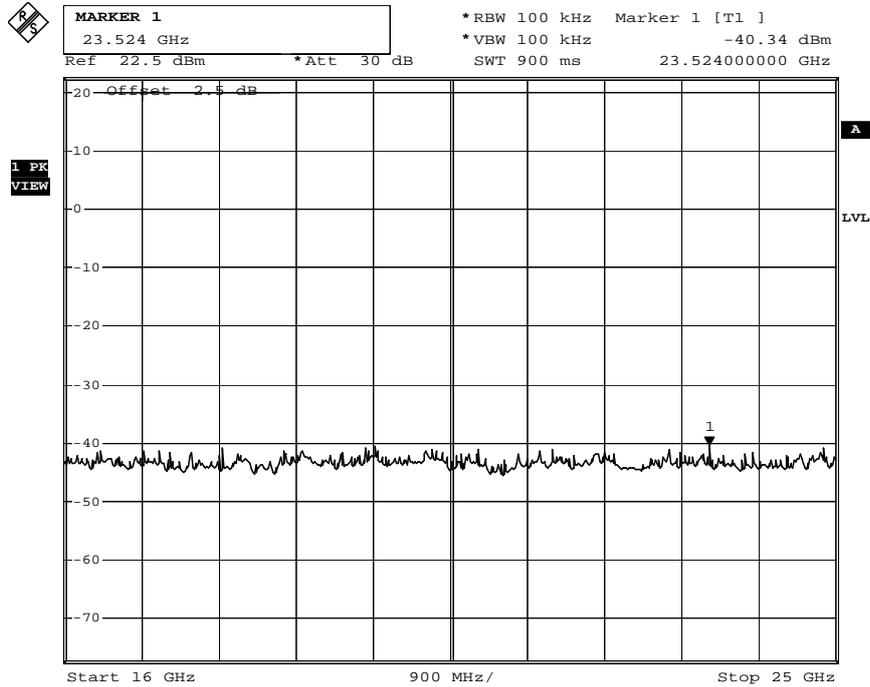
Date: 15.JUN.2011 21:17:01

2422MHz (8GHz~16GHz) -802.11n(40M)-ANT B



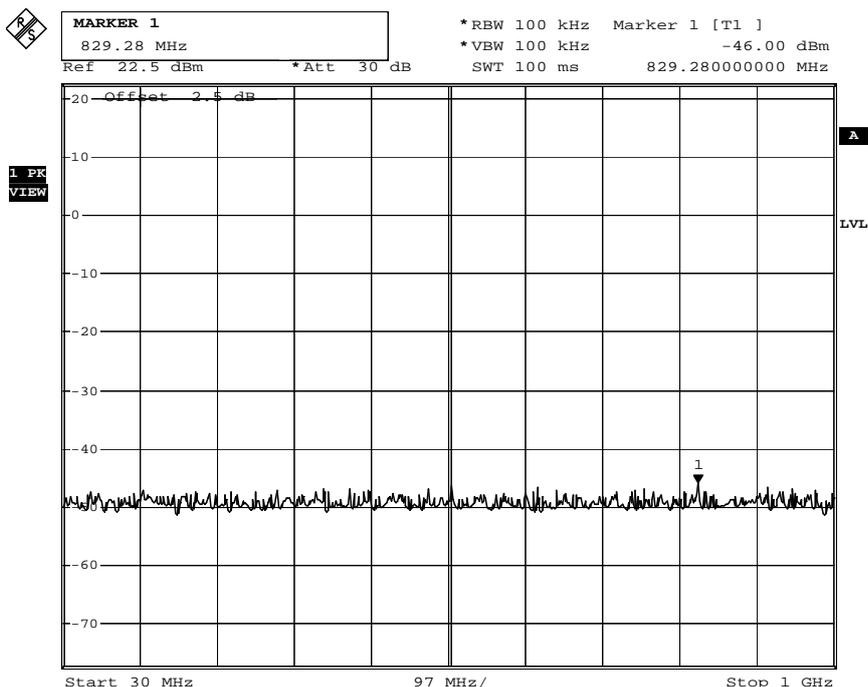
Date: 15.JUN.2011 21:14:22

2422MHz (16GHz~25GHz) -802.11n(40M)-ANT B



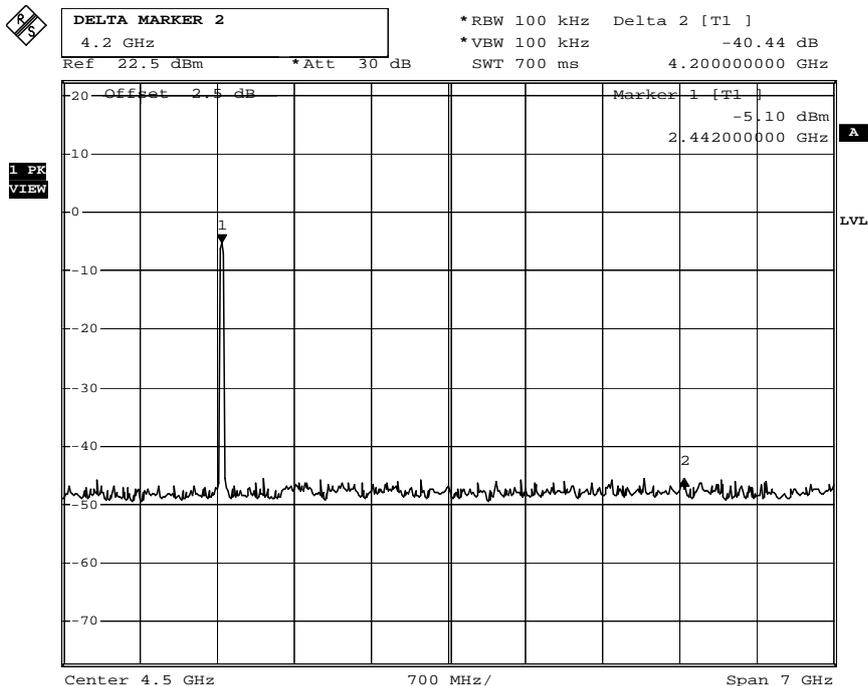
Date: 15.JUN.2011 21:11:16

2452MHz (30MHz~1GHz)-802.11n(40M)-ANT B



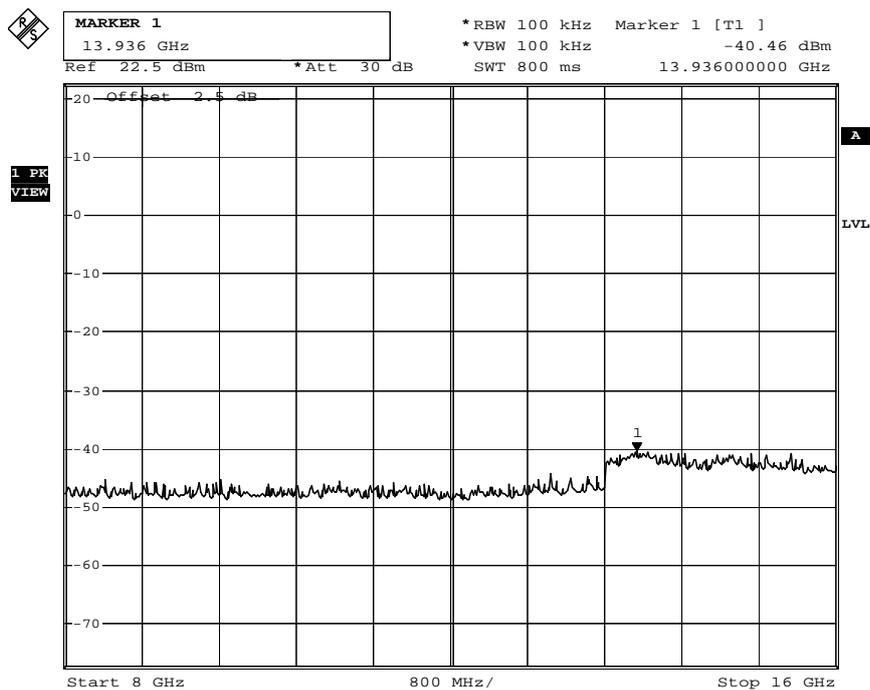
Date: 15.JUN.2011 21:13:06

2452MHz (1GHz~8GHz)-802.11n(40M)-ANT B



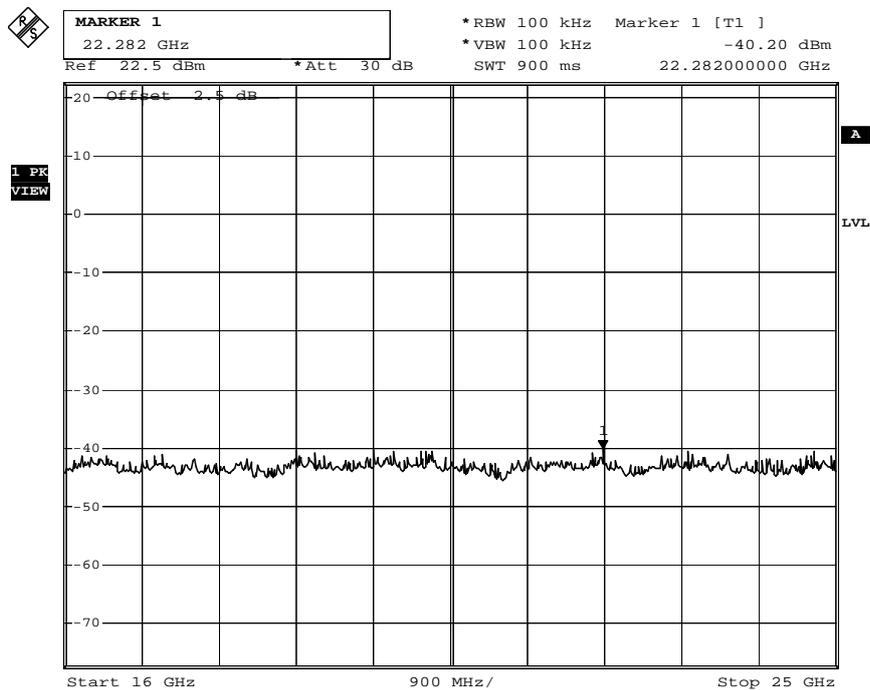
Date: 15.JUN.2011 21:18:20

2452MHz (8GHz~16GHz) -802.11n(40M)-ANT B



Date: 15.JUN.2011 21:15:02

2452MHz (16GHz~25GHz) -802.11n(40M)-ANT B

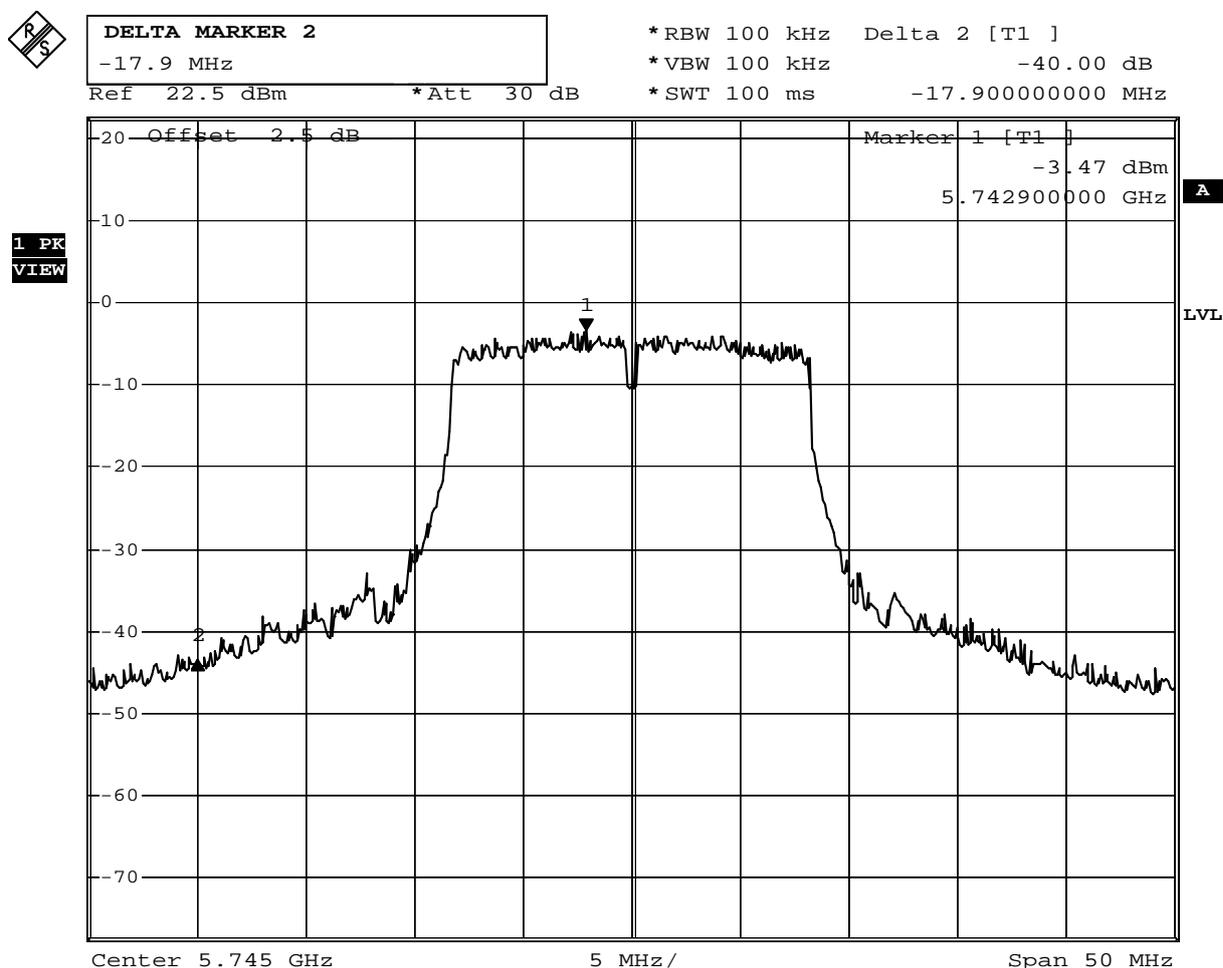


Date: 15.JUN.2011 21:11:41

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11a, Antenna Gain: 3.17dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	40.00	≥20	Pass
165	5825	42.37	≥20	Pass

Channel 149 (5745MHz)



Date: 16.JUN.2011 11:11:11

Channel 165 (5825MHz)

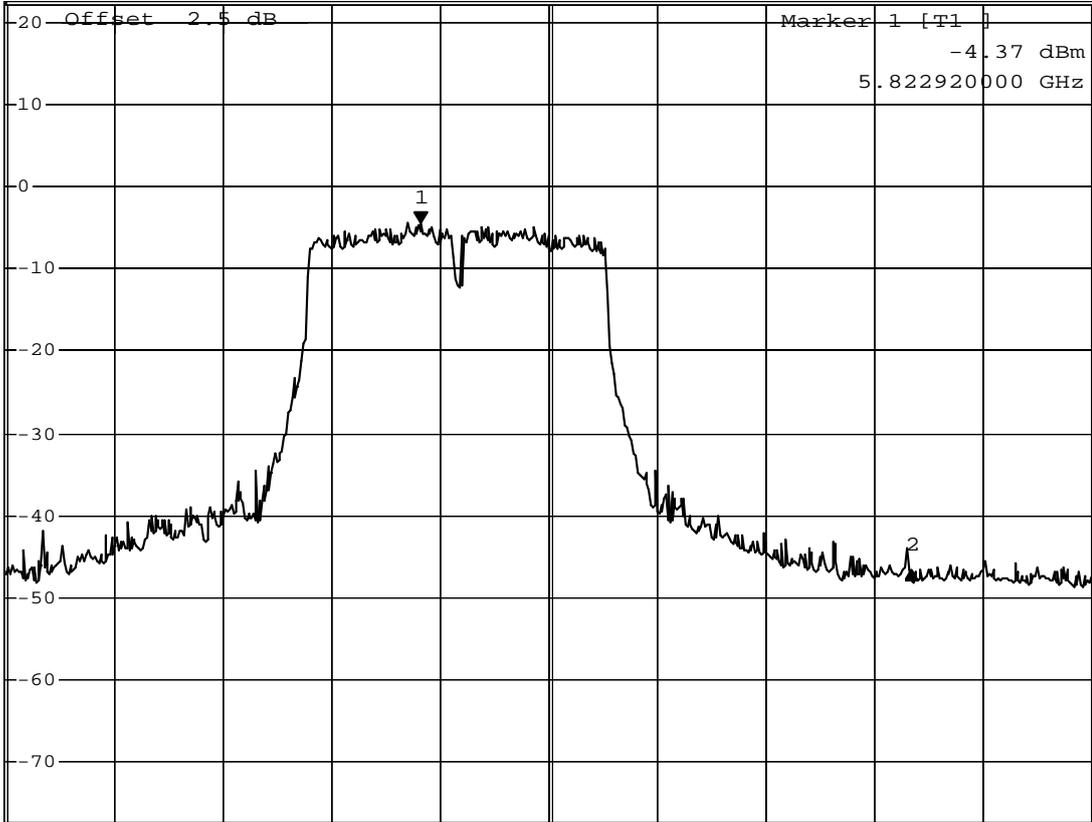


DELTA MARKER 2
27.08 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -42.37 dB
*SWT 100 ms 27.08000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



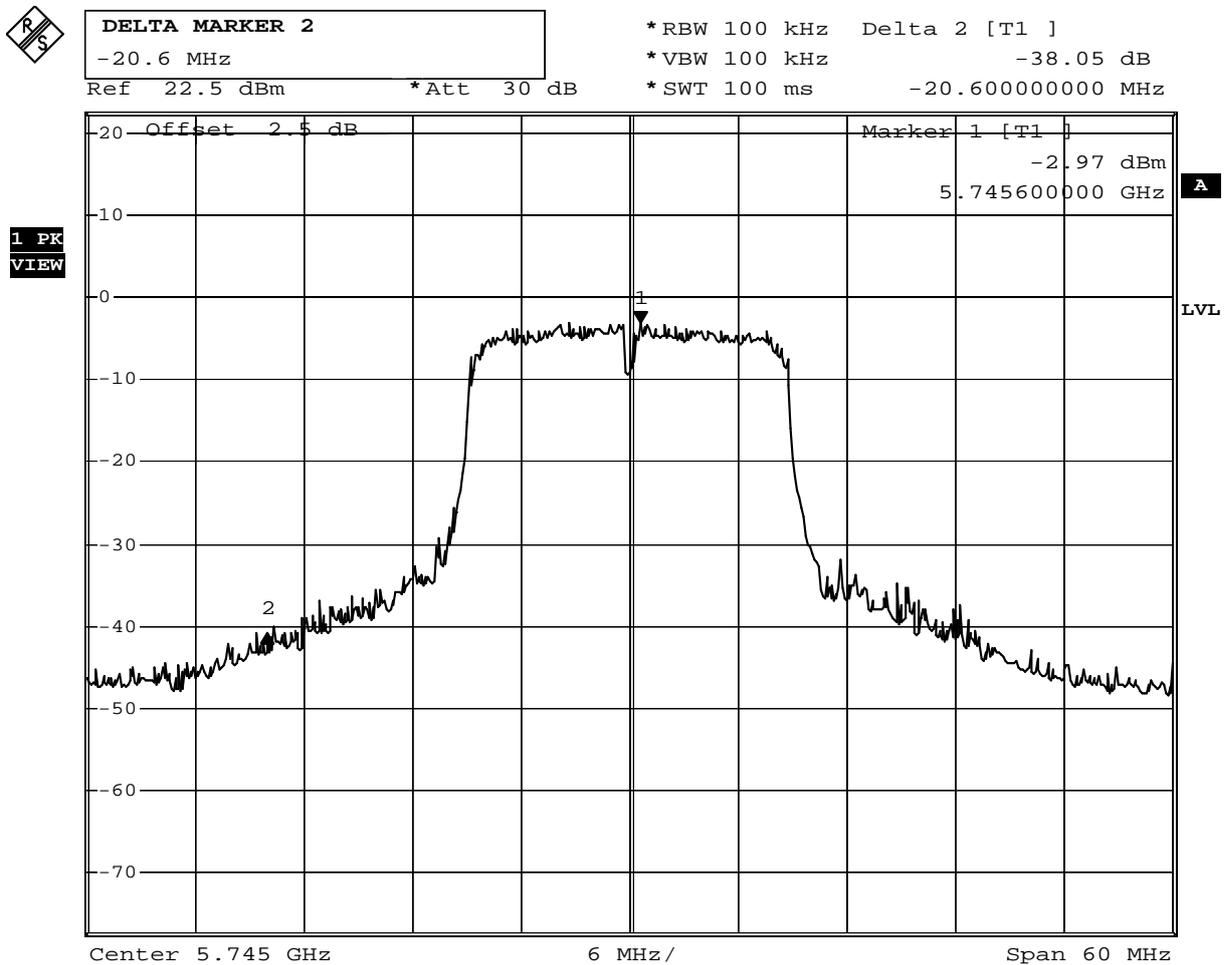
Start 5.8 GHz 6 MHz/ Stop 5.86 GHz

Date: 16.JUN.2011 11:13:11

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT A) Antenna Gain: 3.17dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	38.05	≥ 20	Pass
165	5825	42.76	≥ 20	Pass

Channel 149 (5745MHz)



Date: 16.JUN.2011 11:15:36

Channel 165 (5825MHz)

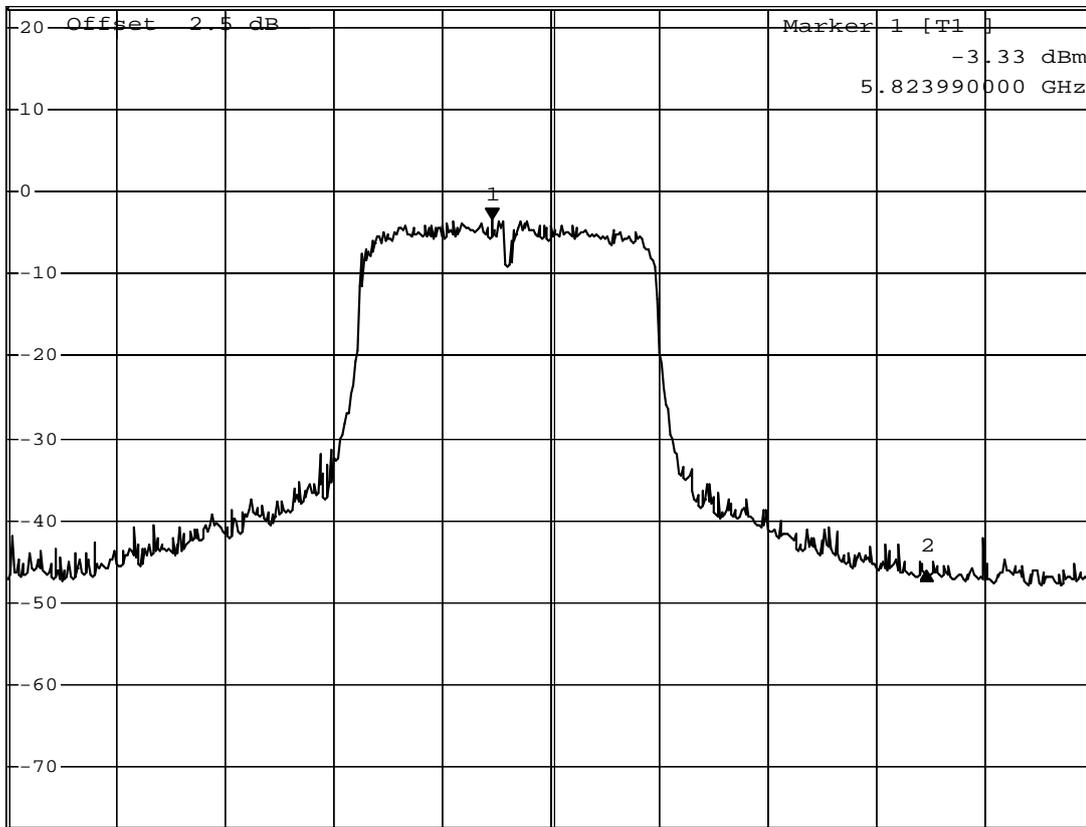


DELTA MARKER 2
26.01 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -42.76 dB
*SWT 100 ms 26.01000000 MHz

1 PK
VIEW



Start 5.795 GHz

6.5 MHz/

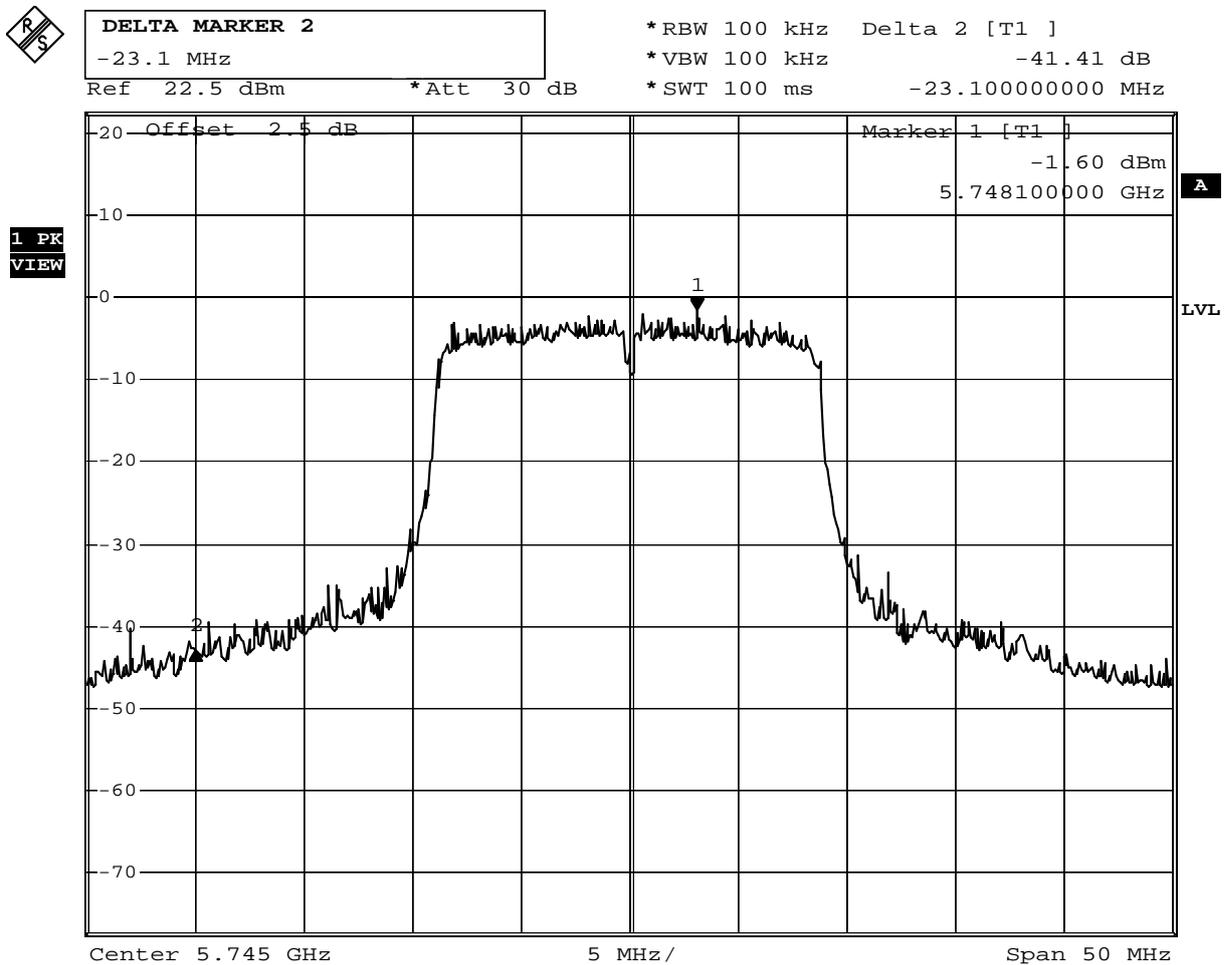
Stop 5.86 GHz

Date: 16.JUN.2011 11:16:49

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT B) Antenna Gain: 3.17dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	41.41	≥ 20	Pass
165	5825	44.67	≥ 20	Pass

Channel 149 (5745MHz)



Date: 16.JUN.2011 11:30:47

Channel 165 (5825MHz)

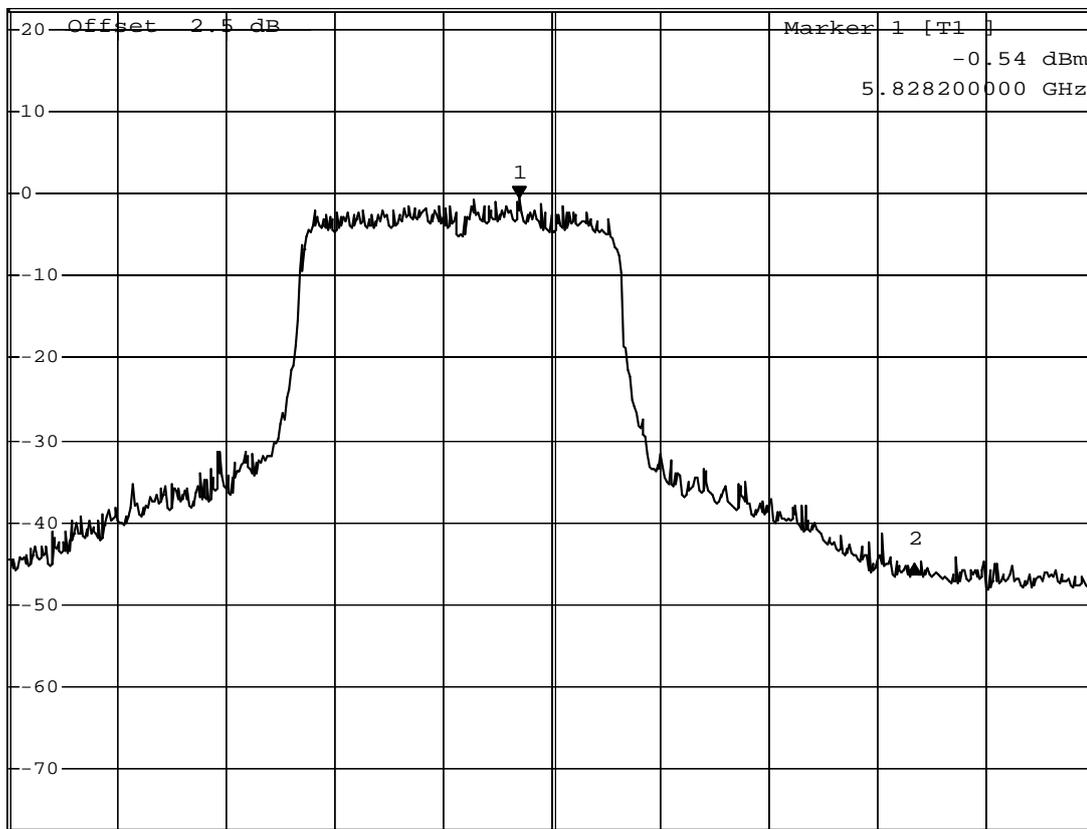


DELTA MARKER 2
21.8 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -44.67 dB
*SWT 100 ms 21.80000000 MHz

1 PK
VIEW



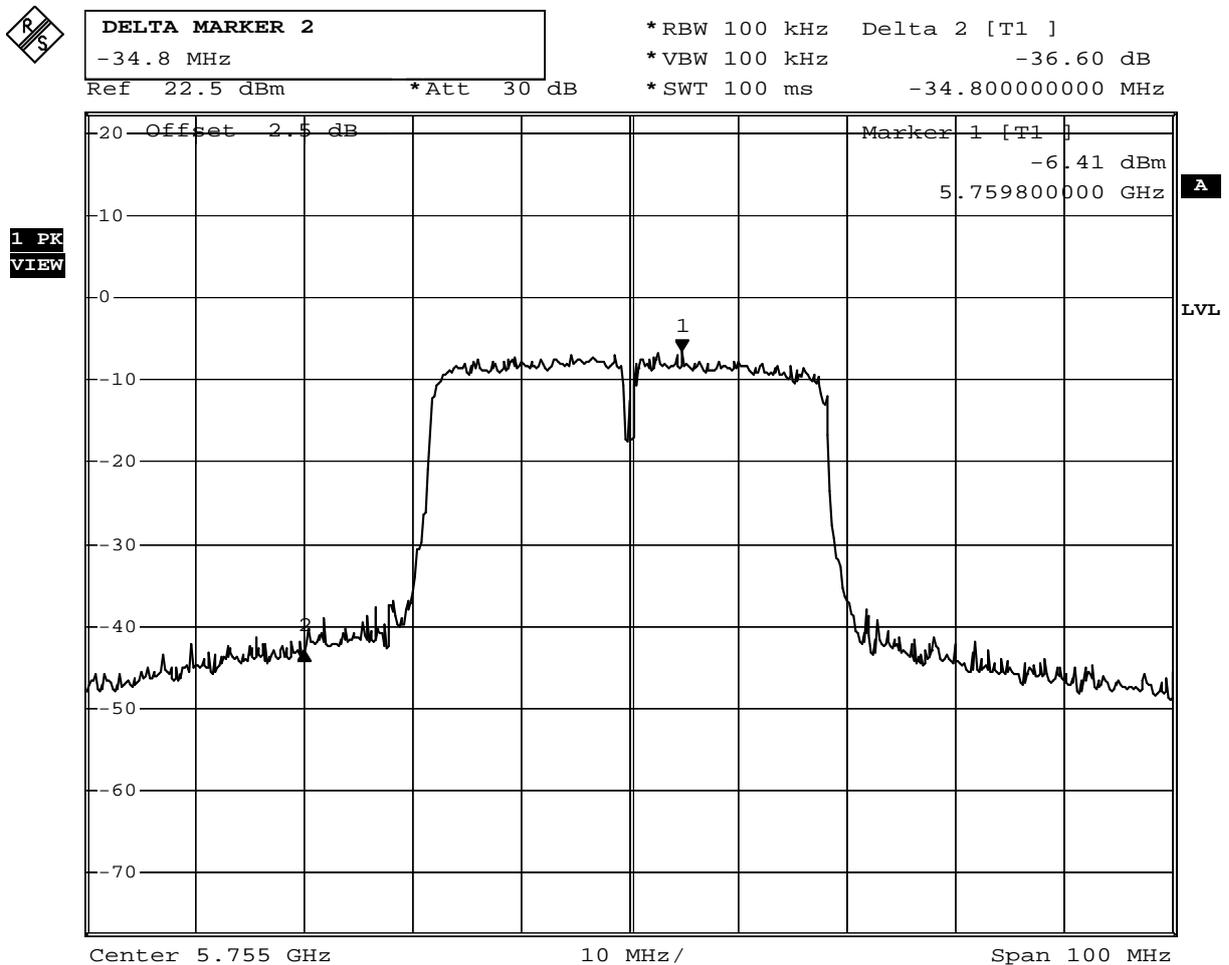
Start 5.8 GHz 6 MHz/ Stop 5.86 GHz

Date: 16.JUN.2011 11:31:41

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT A) Antenna Gain: 3.17dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	36.60	≥ 20	Pass
159	5795	42.21	≥ 20	Pass

Channel 151 (5755MHz)



Date: 16.JUN.2011 11:19:15

Channel 159 (5795MHz)

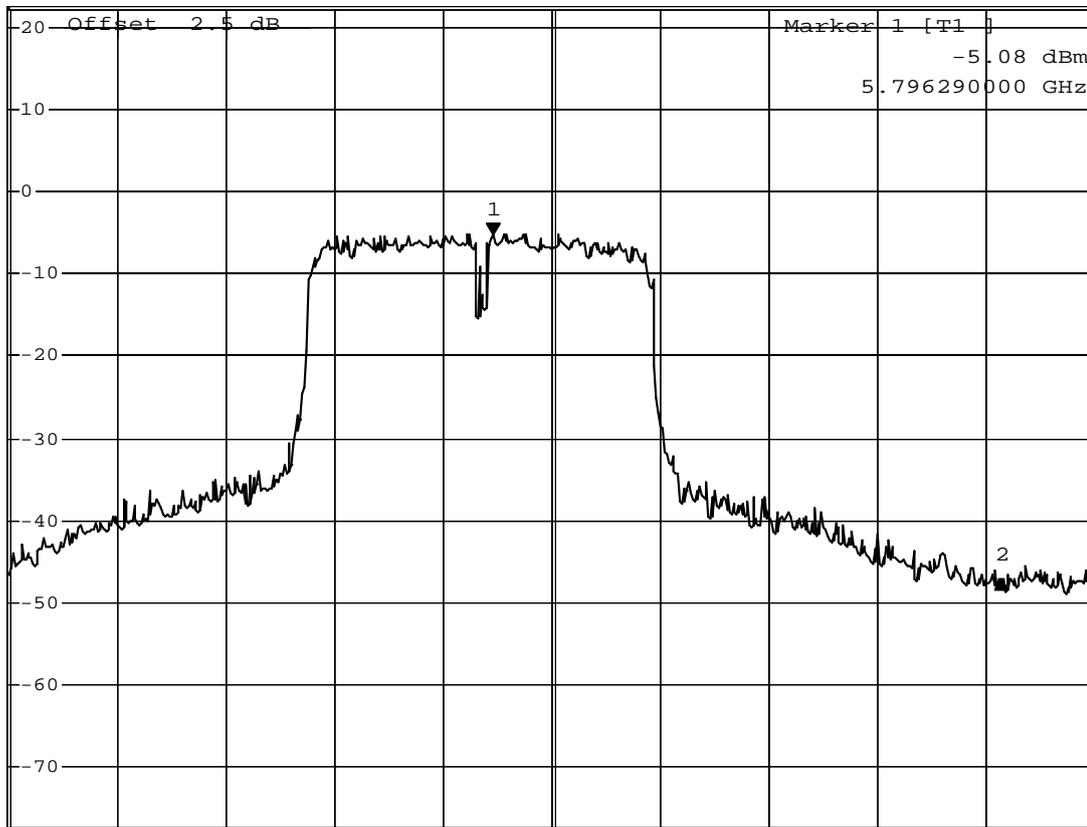


DELTA MARKER 2
53.71 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -42.21 dB
*SWT 100 ms 53.71000000 MHz

1 PK
VIEW



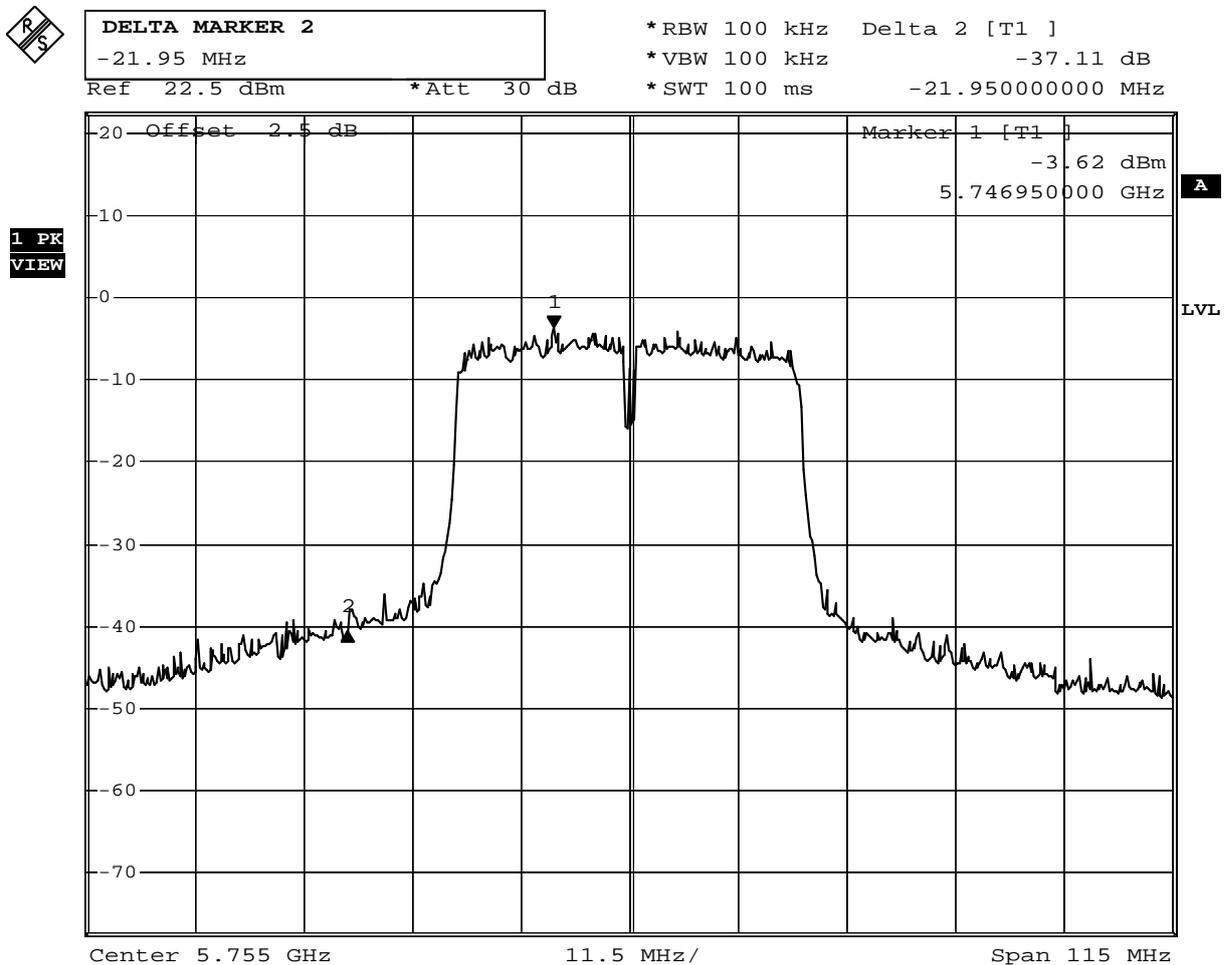
Start 5.745 GHz 11.5 MHz/ Stop 5.86 GHz

Date: 16.JUN.2011 11:20:16

Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT B) Antenna Gain: 3.17dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	37.11	≥ 20	Pass
159	5795	45.66	≥ 20	Pass

Channel 151 (5755MHz)



Date: 16.JUN.2011 11:29:36

Channel 159 (5795MHz)

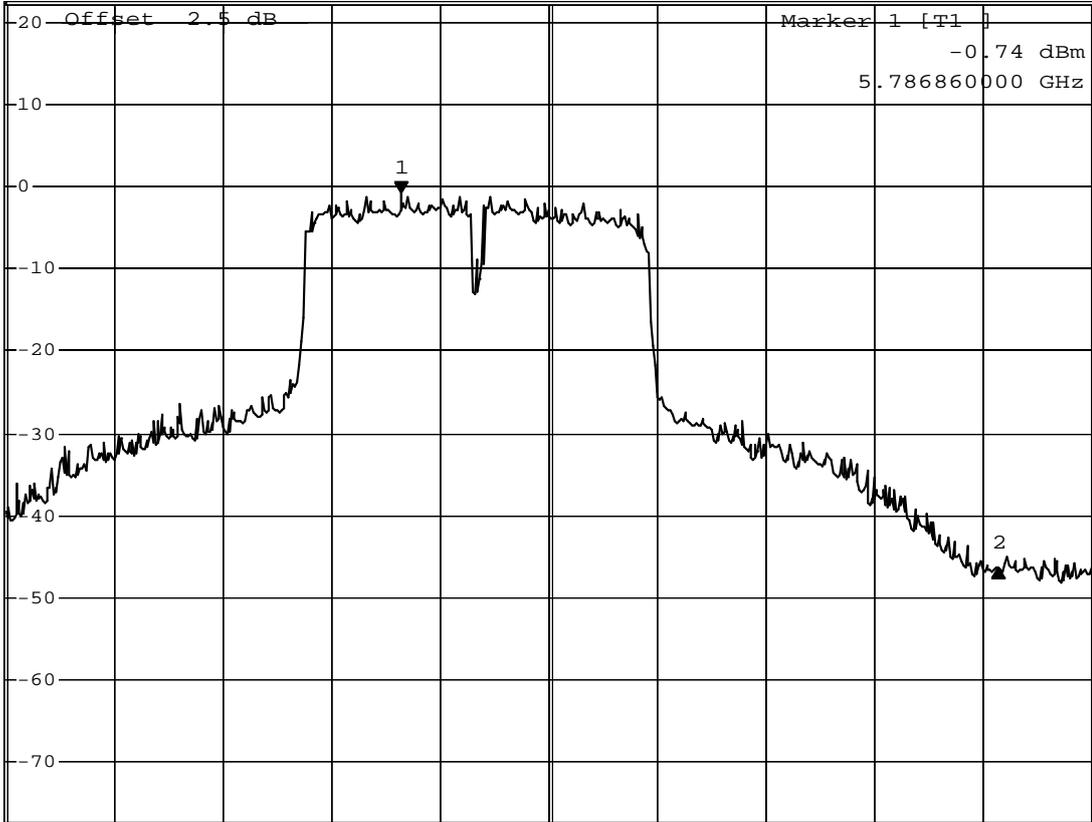


DELTA MARKER 2
63.14 MHz

*RBW 100 kHz Delta 2 [T1]
*VBW 100 kHz -45.66 dB
*SWT 100 ms 63.14000000 MHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW

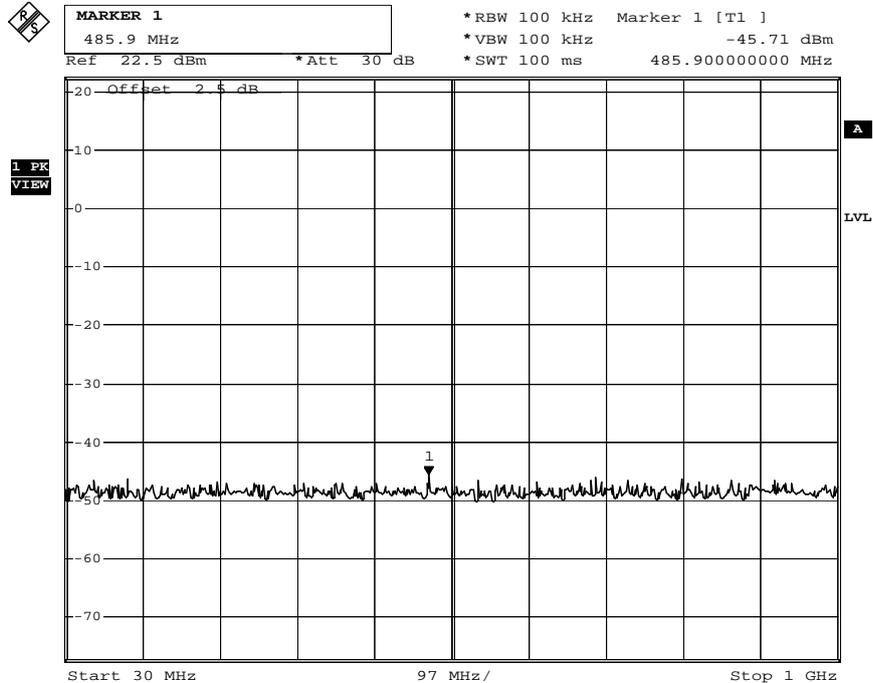


Start 5.745 GHz 11.5 MHz/ Stop 5.86 GHz

Date: 16.JUN.2011 11:28:12

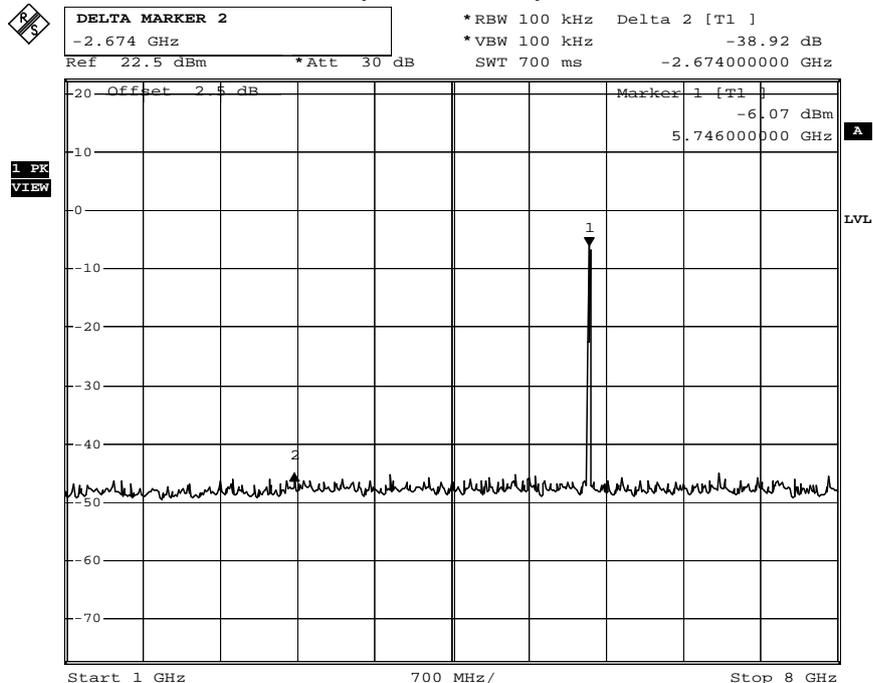
Product	Dual-band Wireless USB Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

5745MHz (30MHz~1GHz)-802.11a



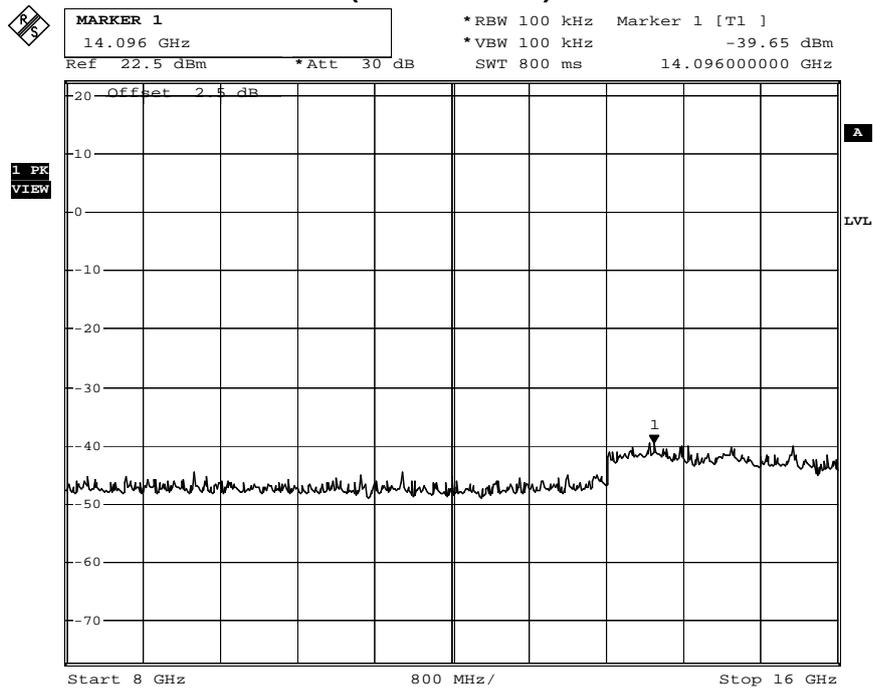
Date: 16.JUN.2011 11:36:40

5745MHz (1GHz~8GHz)-802.11a



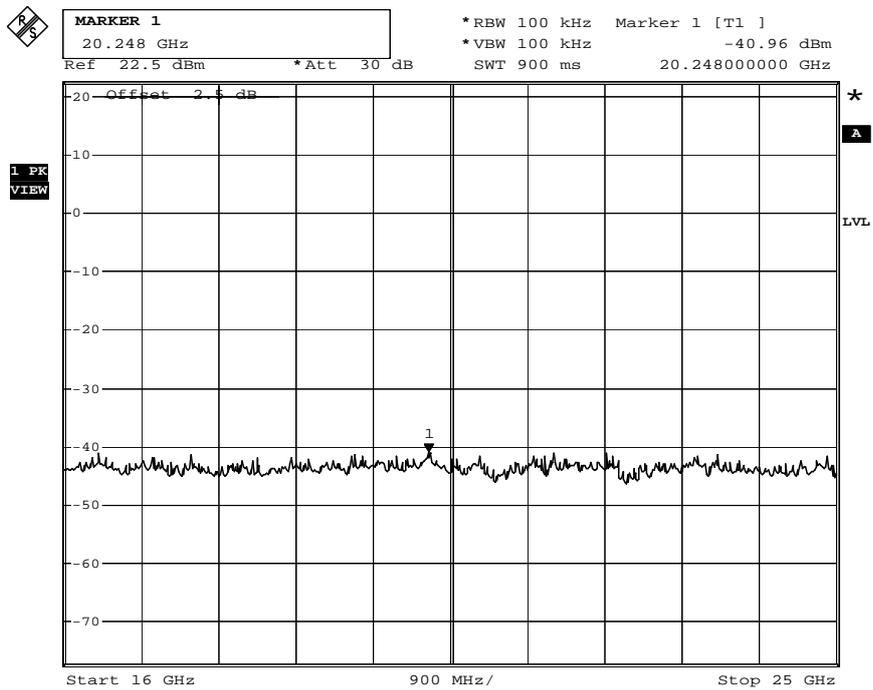
Date: 16.JUN.2011 11:38:53

5745MHz (8GHz~16GHz)-802.11a



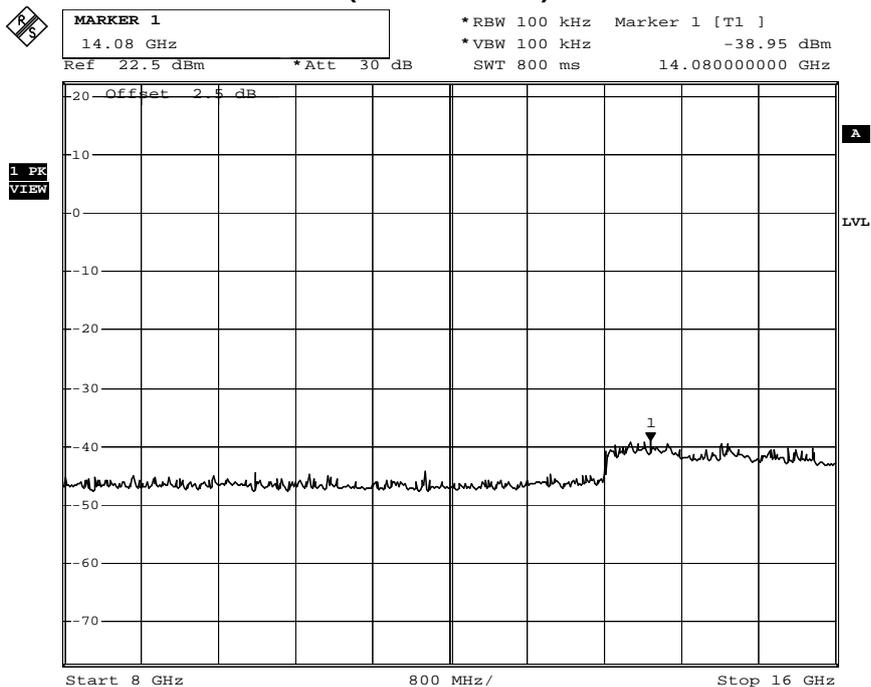
Date: 16.JUN.2011 11:39:20

5745MHz (16GHz~25GHz)- 802.11a



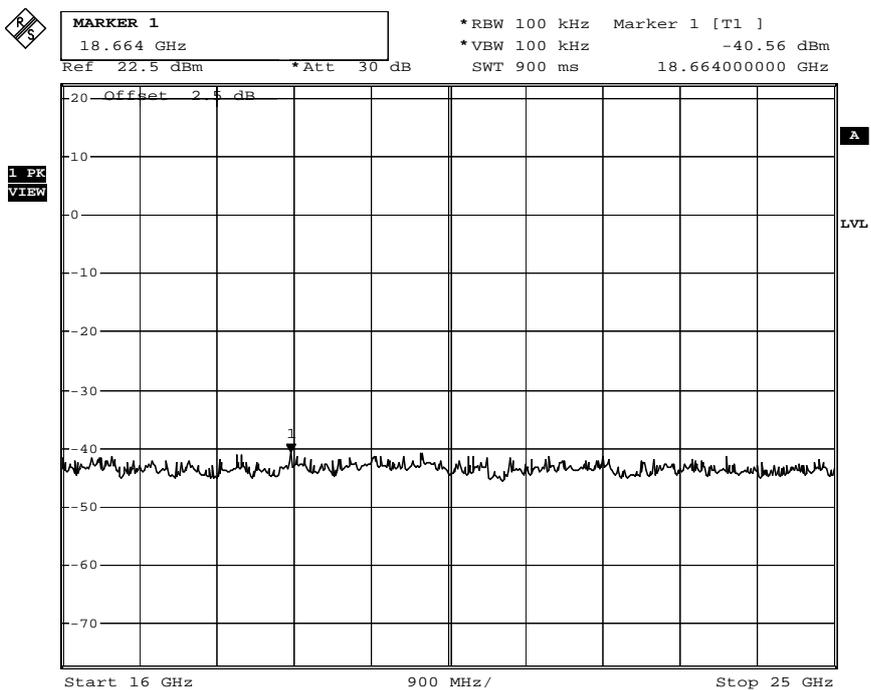
Date: 16.JUN.2011 11:39:51

5825MHz (8GHz~16GHz)-802.11a



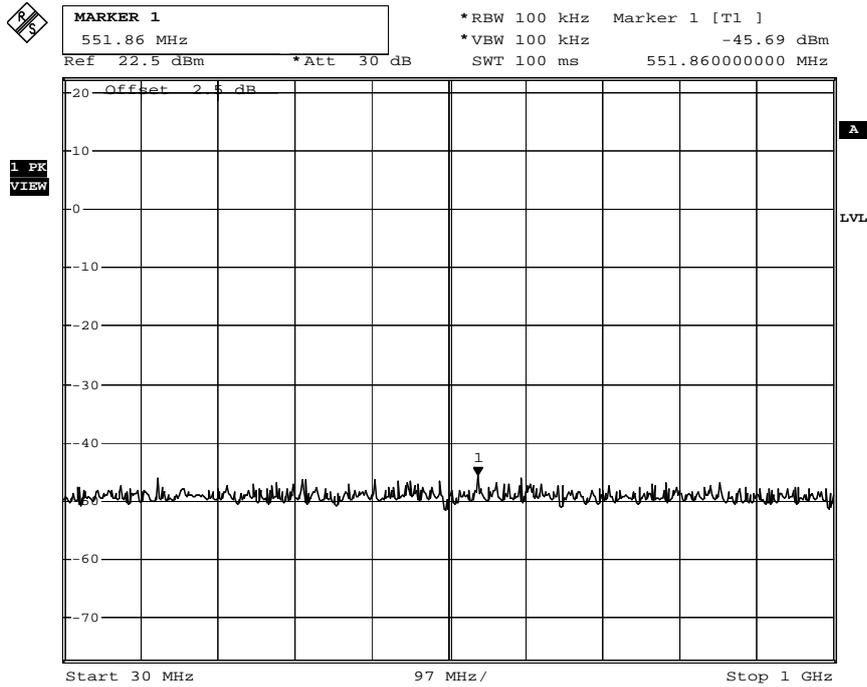
Date: 16.JUN.2011 11:44:24

5825MHz (16GHz~25GHz)- 802.11a



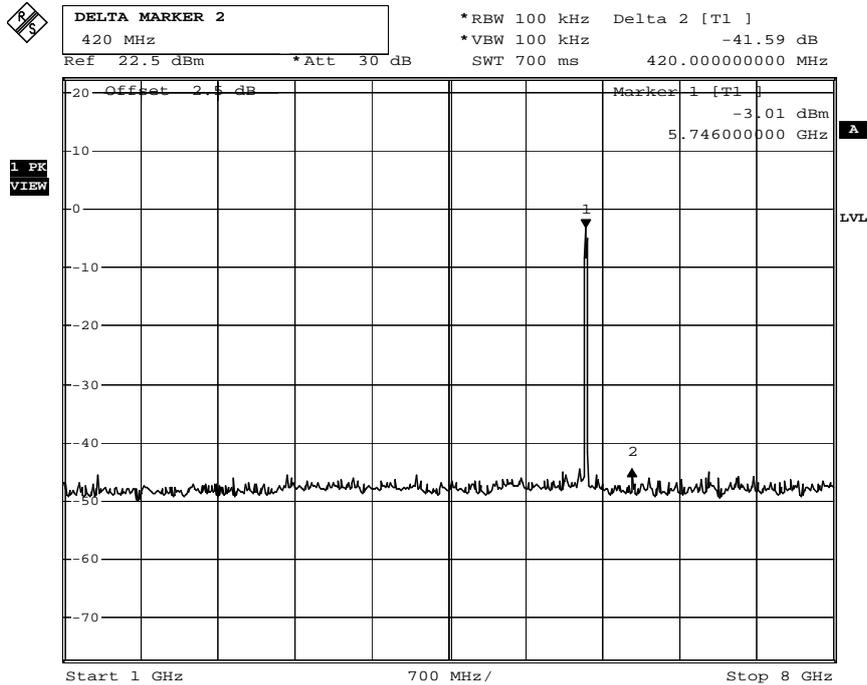
Date: 16.JUN.2011 11:40:56

5745MHz (30MHz~1GHz)-802.11n(20M)-ANT A



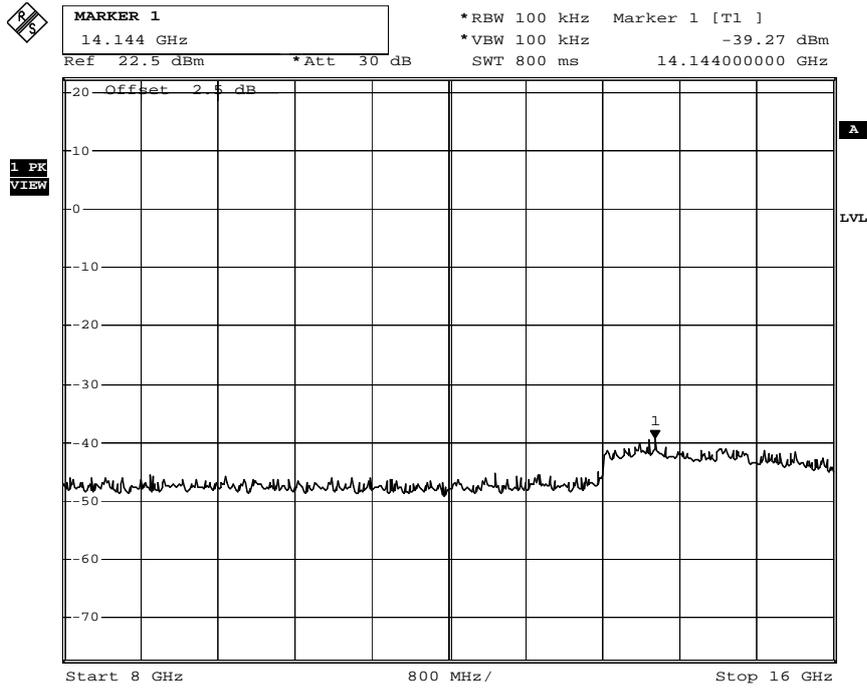
Date: 16.JUN.2011 11:47:40

5745MHz (1GHz~8GHz) -802.11n(20M)-ANT A



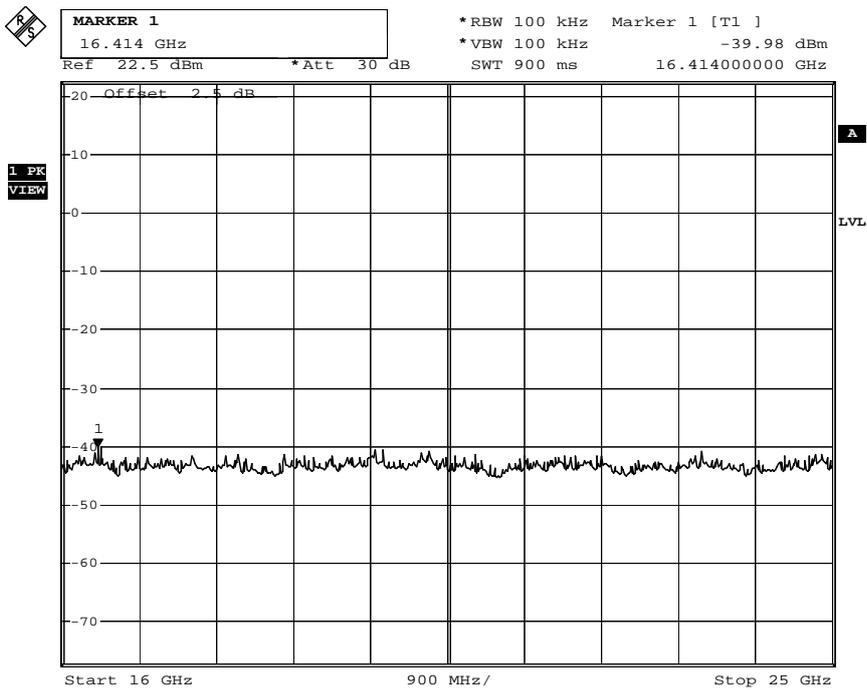
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5745MHz (8GHz~16GHz) -802.11n(20M)-ANT A



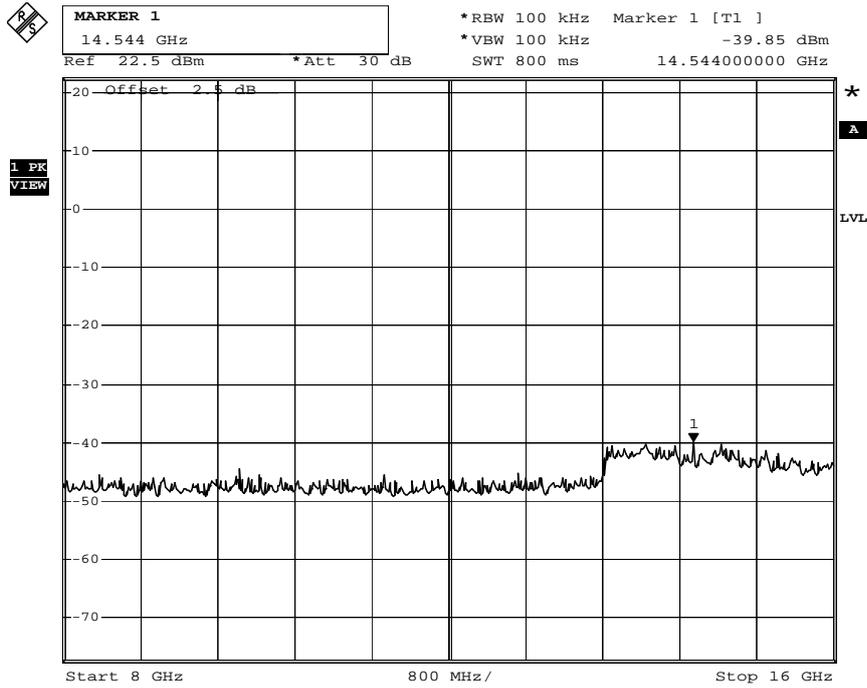
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5745MHz (16GHz~25GHz) -802.11n(20M)-ANT A



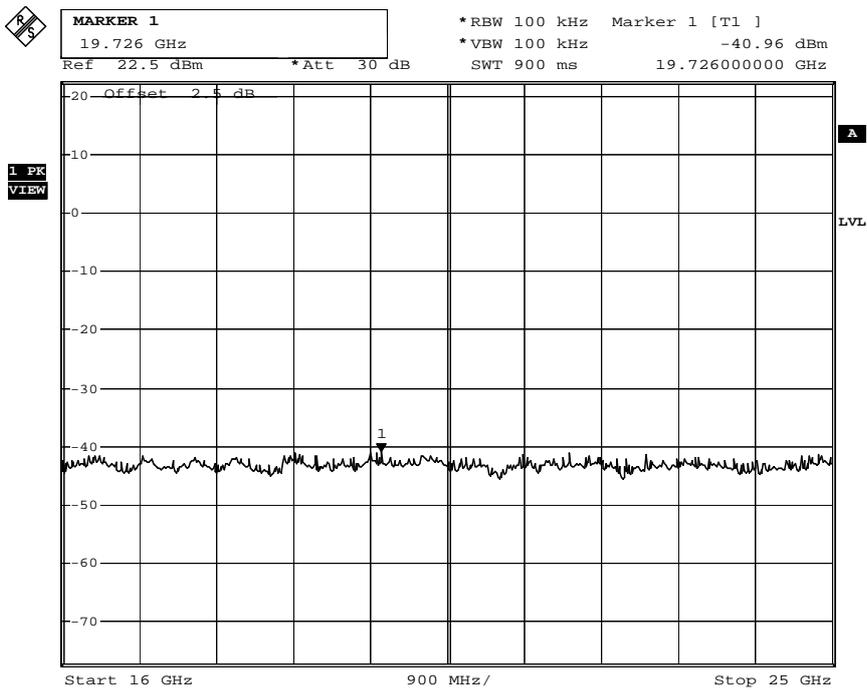
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5825MHz (8GHz~16GHz) -802.11n(20M)-ANT A



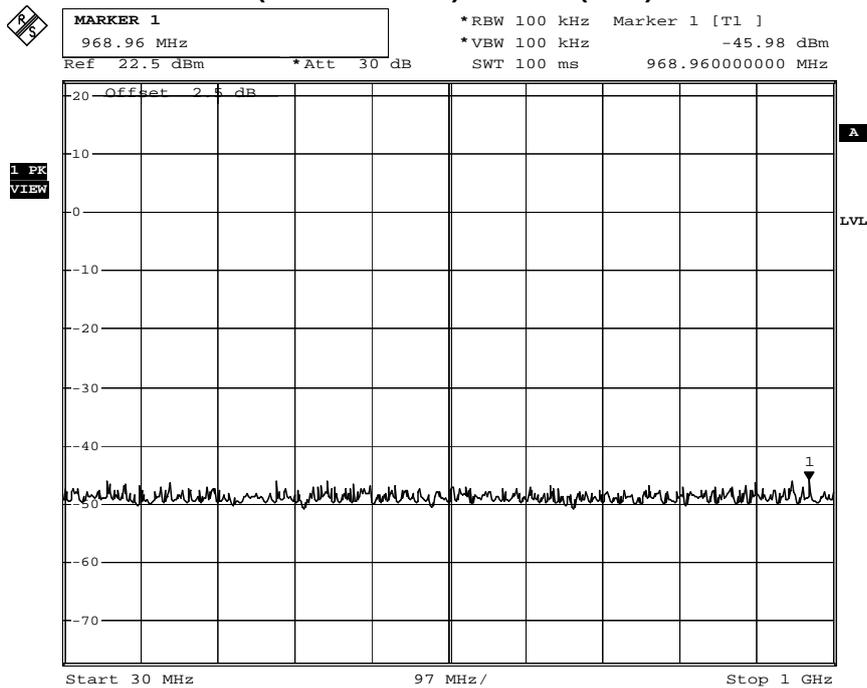
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5825MHz (16GHz~25GHz) -802.11n(20M)-ANT A



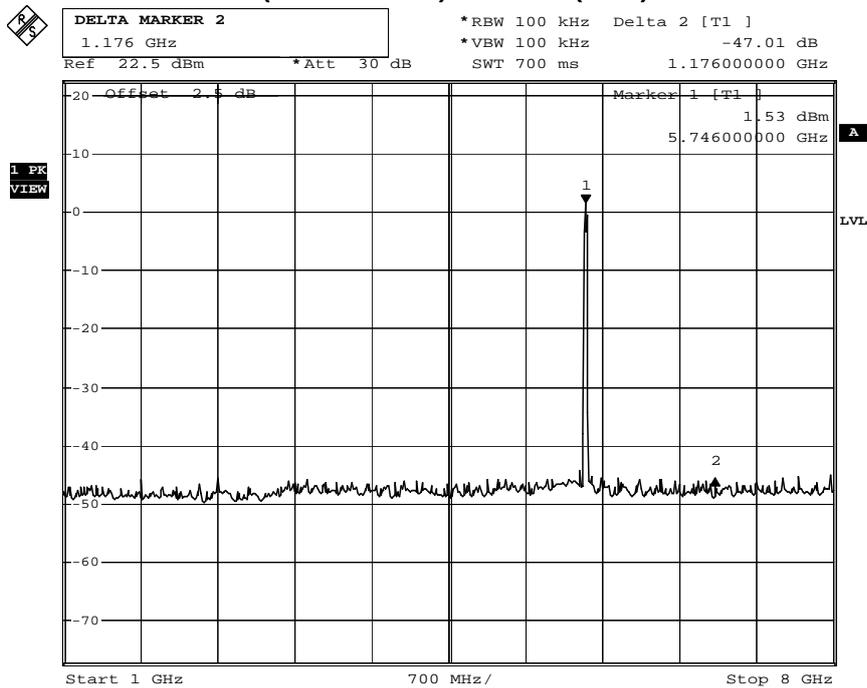
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5745MHz (30MHz~1GHz)-802.11n(20M)-ANT B



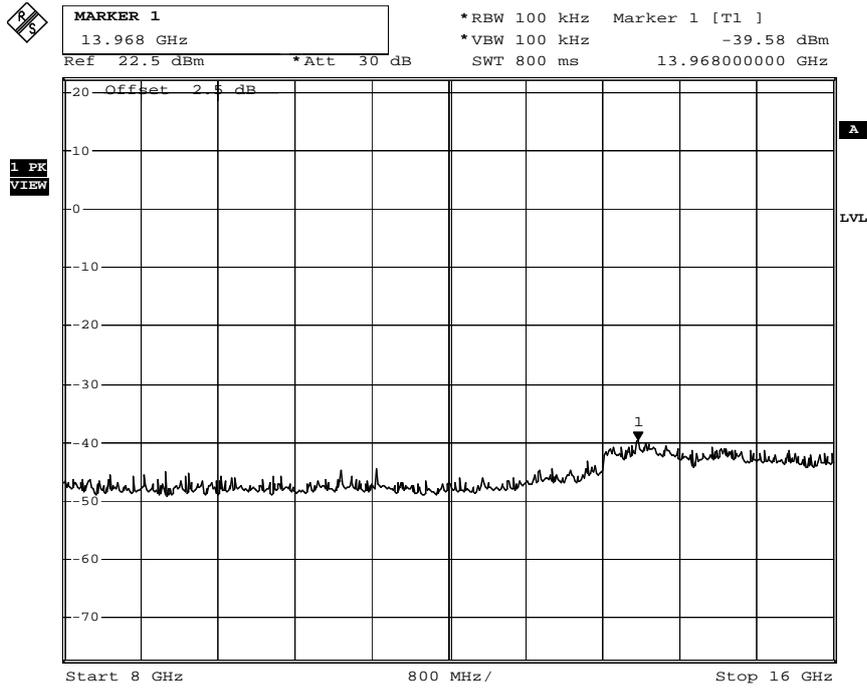
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5745MHz (1GHz~8GHz) -802.11n(20M)-ANT B



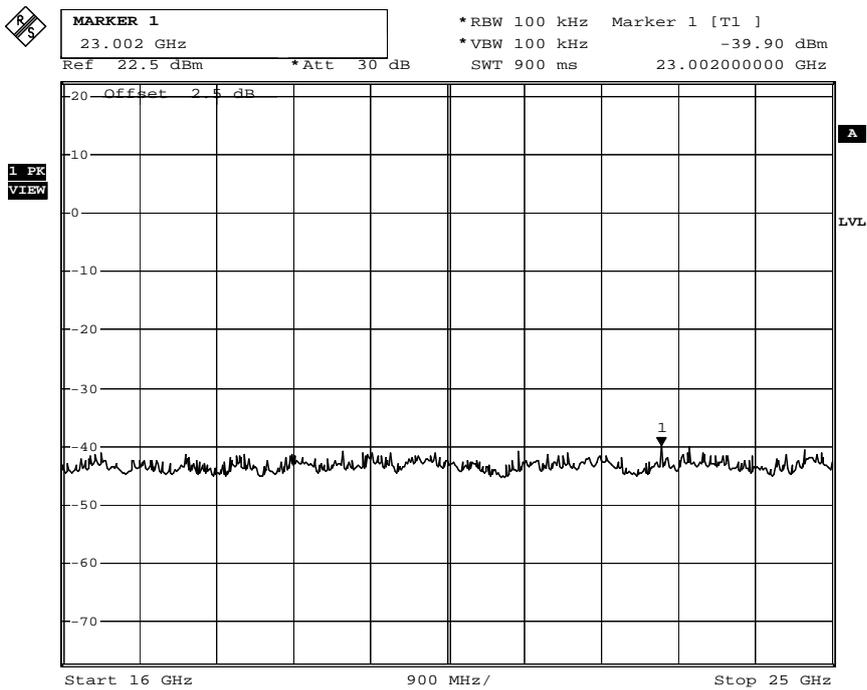
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5745MHz (8GHz~16GHz) -802.11n(20M)-ANT B



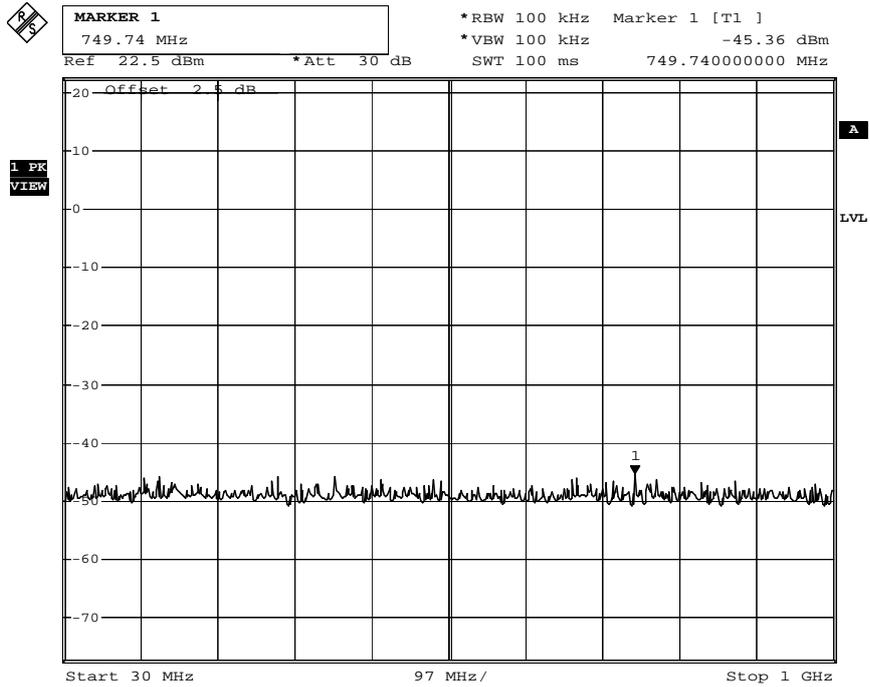
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5745MHz (16GHz~25GHz) -802.11n(20M)-ANT B



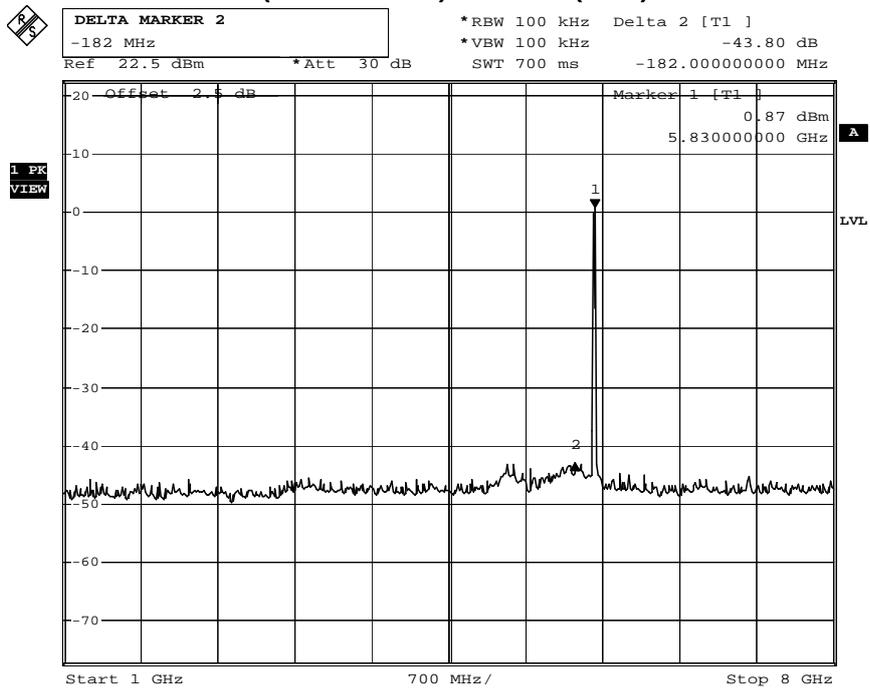
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5825MHz (30MHz~1GHz) -802.11n(20M)-ANT B



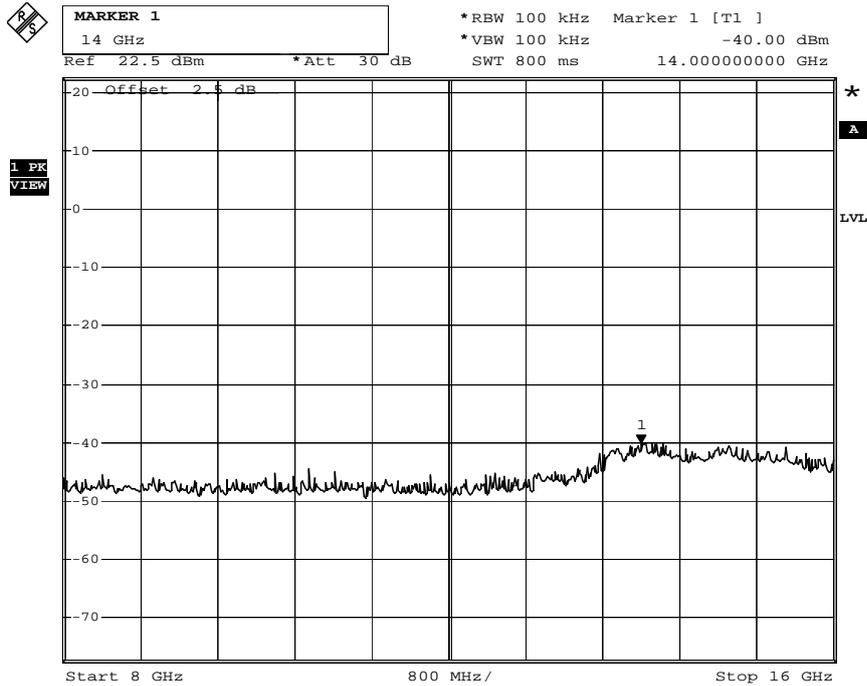
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5825MHz (1GHz~8GHz) -802.11n(20M)-ANT B



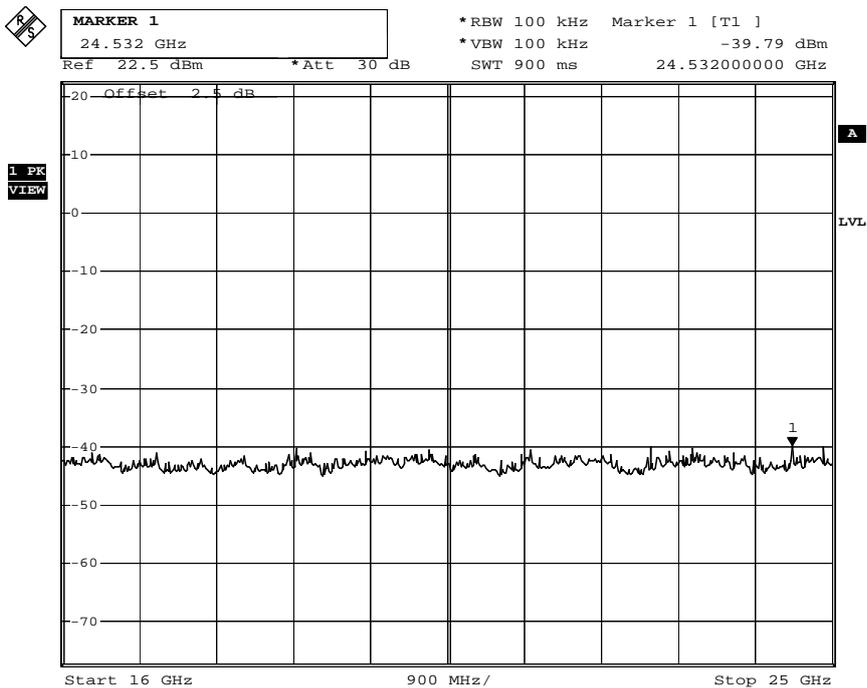
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5825MHz (8GHz~16GHz) -802.11n(20M)-ANT B



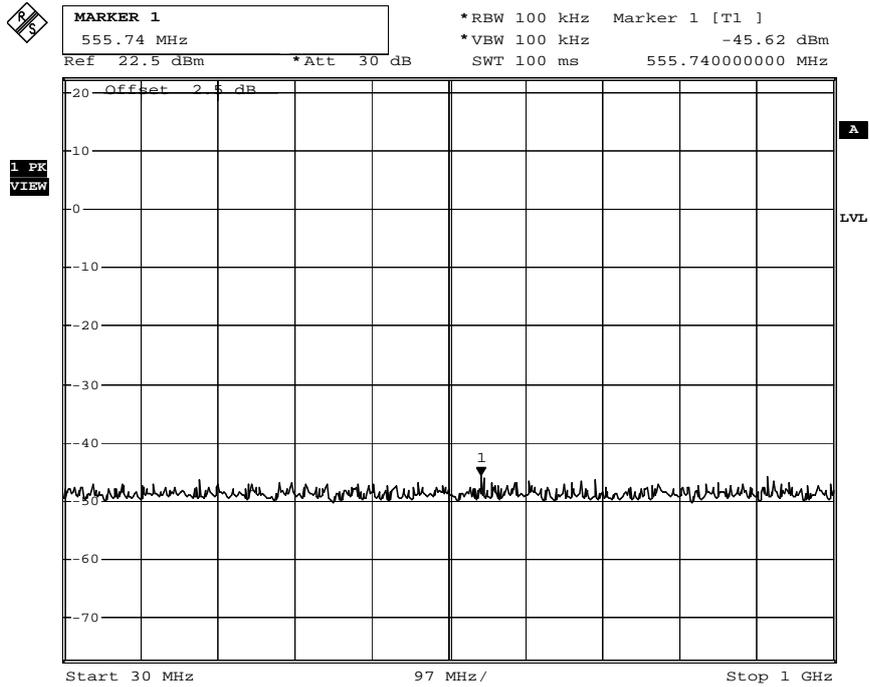
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5825MHz (16GHz~25GHz) -802.11n(20M)-ANT B



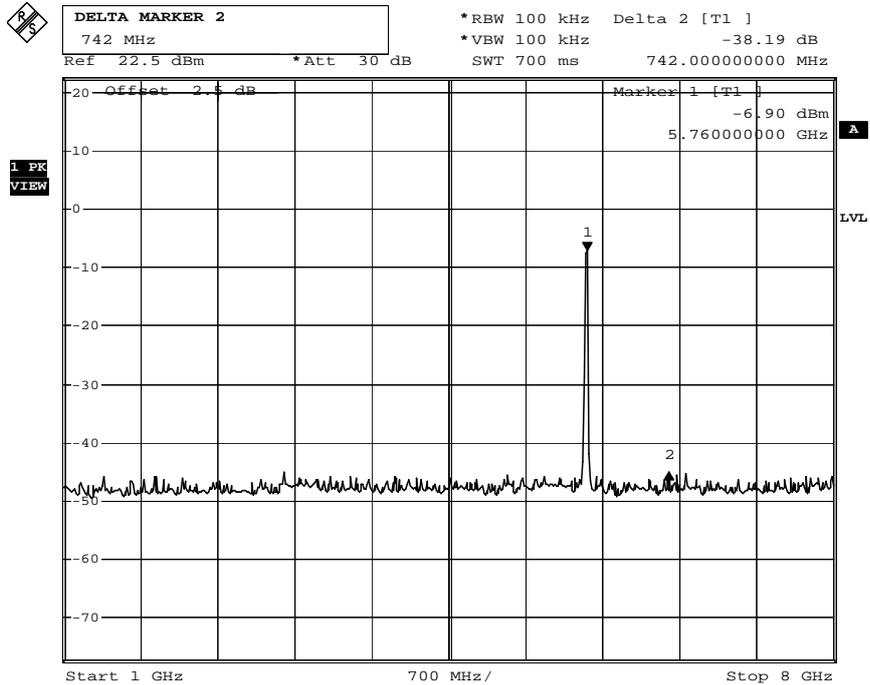
Date: 16.JUN.2011 23:08:38

5755MHz (30MHz~1GHz)-802.11n(40M)-ANT A



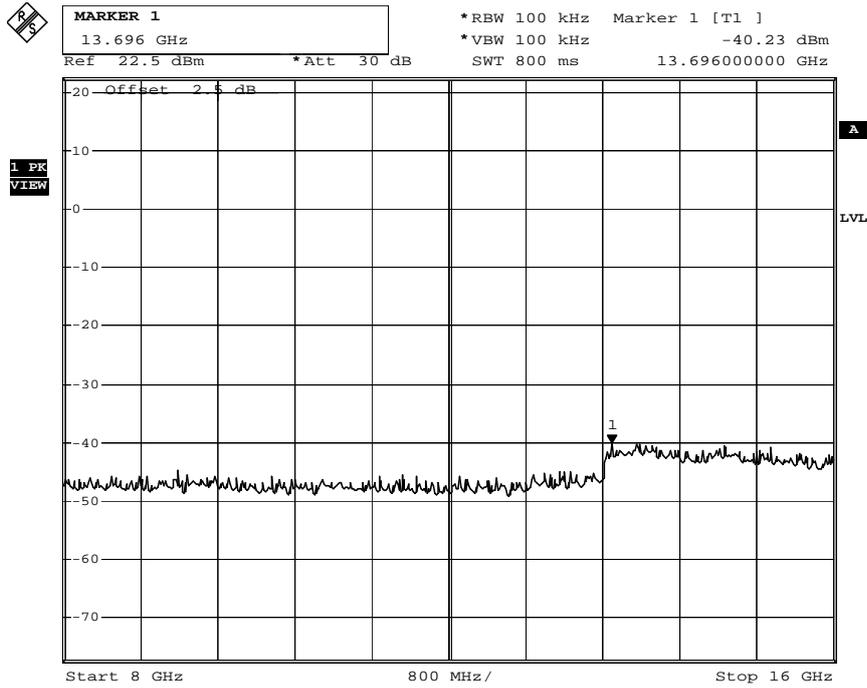
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5755MHz (1GHz~8GHz) -802.11n(40M)-ANT A



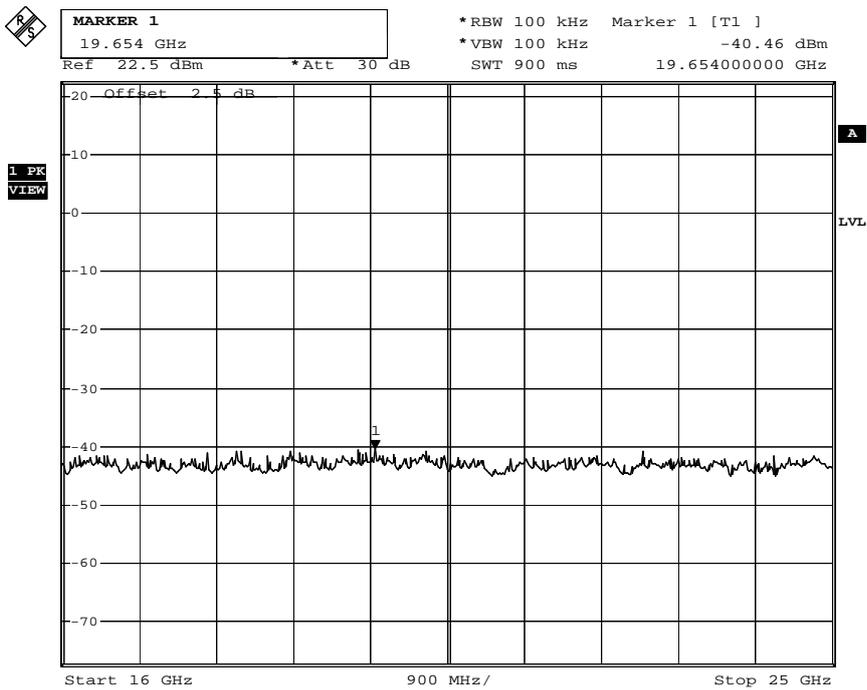
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5755MHz (8GHz~16GHz) -802.11n(40M)-ANT A



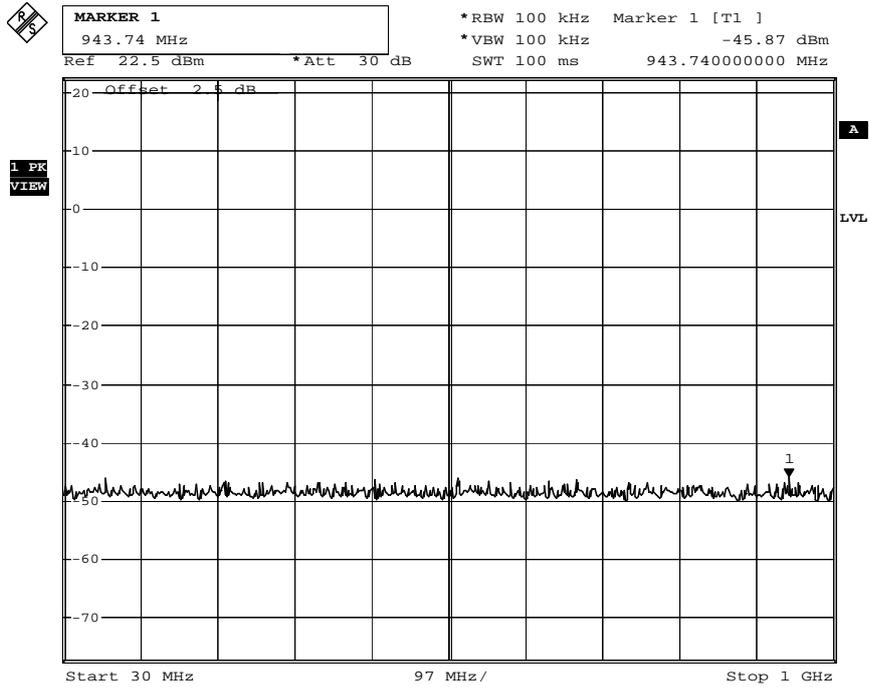
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5755MHz (16GHz~25GHz) -802.11n(40M)-ANT A



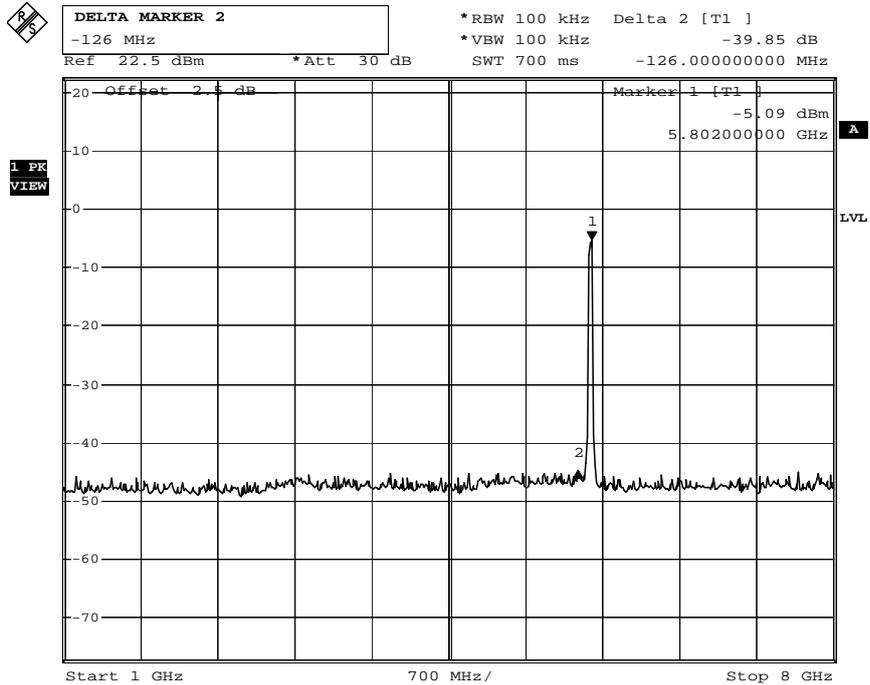
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5795MHz (30MHz~1GHz) -802.11n(40M)-ANT A



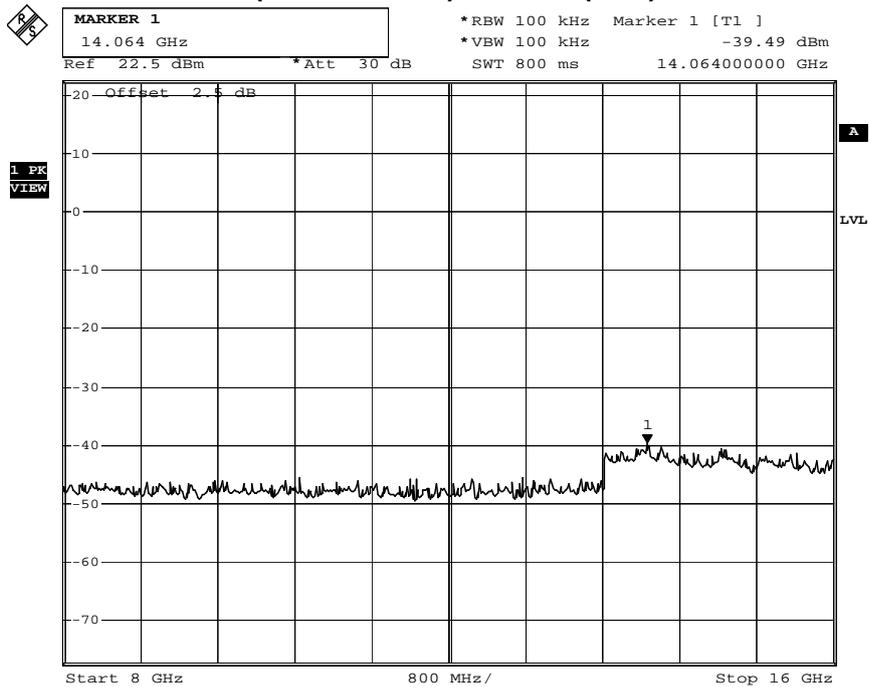
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5795MHz (1GHz~8GHz) -802.11n(40M)-ANT A



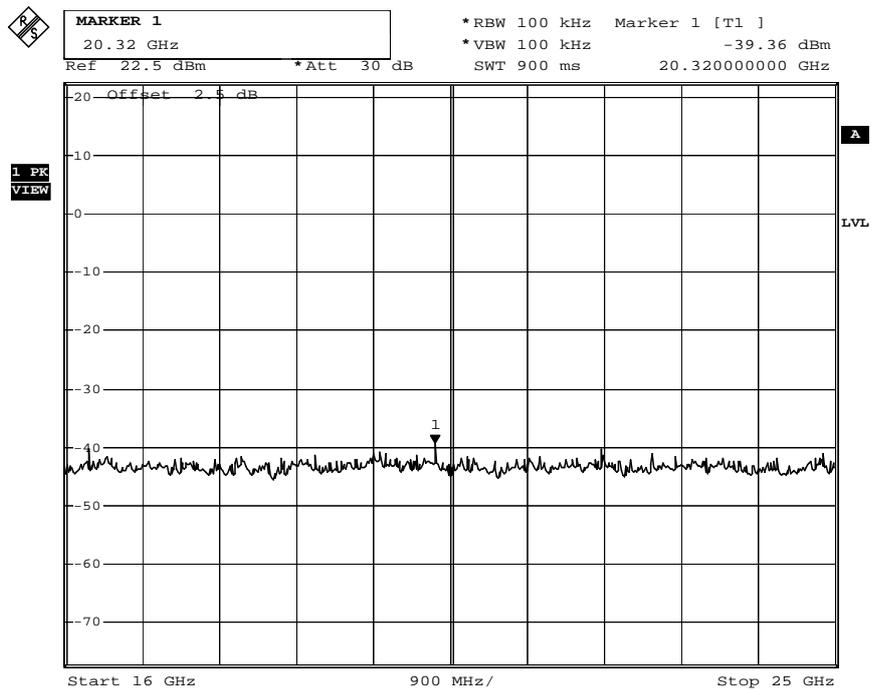
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5795MHz (8GHz~16GHz) -802.11n(40M)-ANT A



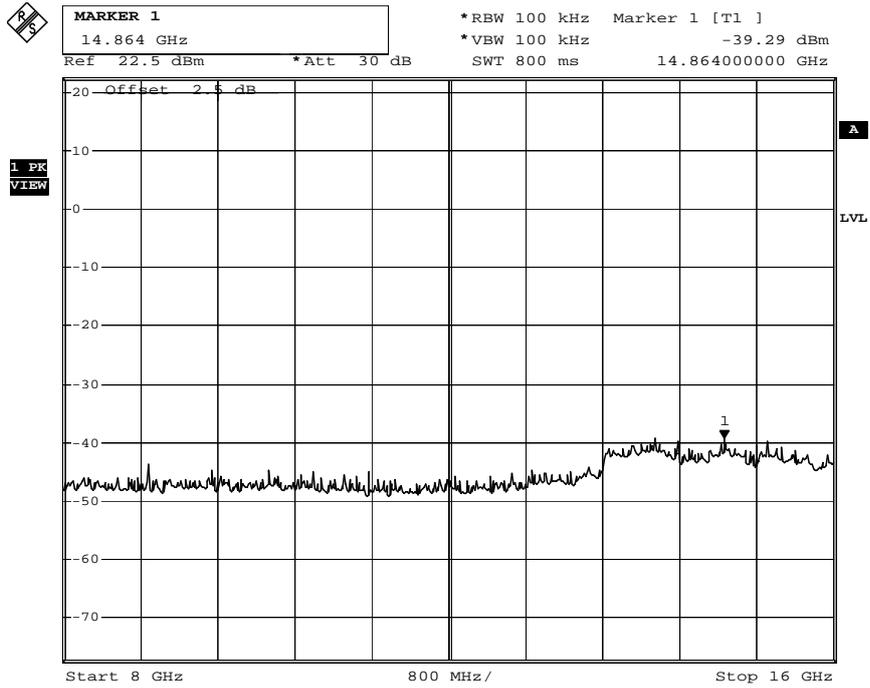
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5795MHz (16GHz~25GHz) -802.11n(40M)-ANT A



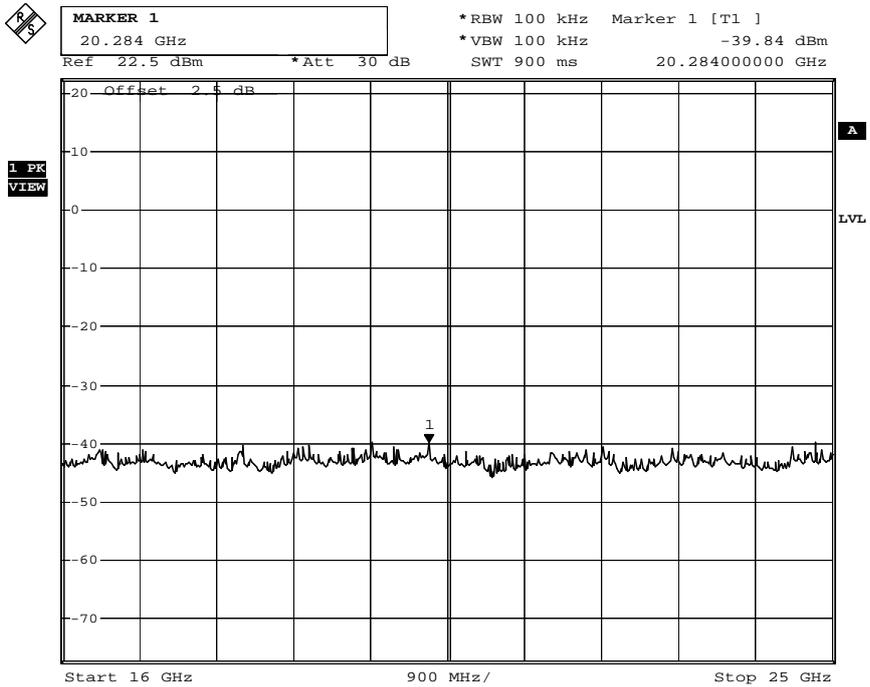
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5755MHz (8GHz~16GHz) -802.11n(40M)-ANT B



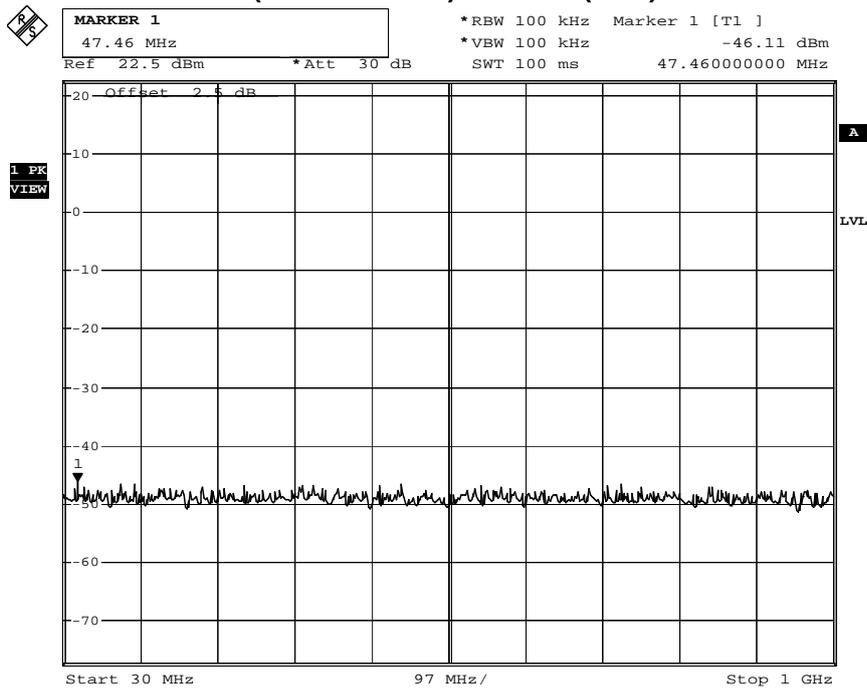
Date: 16.JUN.2011 23:07:35

5755MHz (16GHz~25GHz) -802.11n(40M)-ANT B



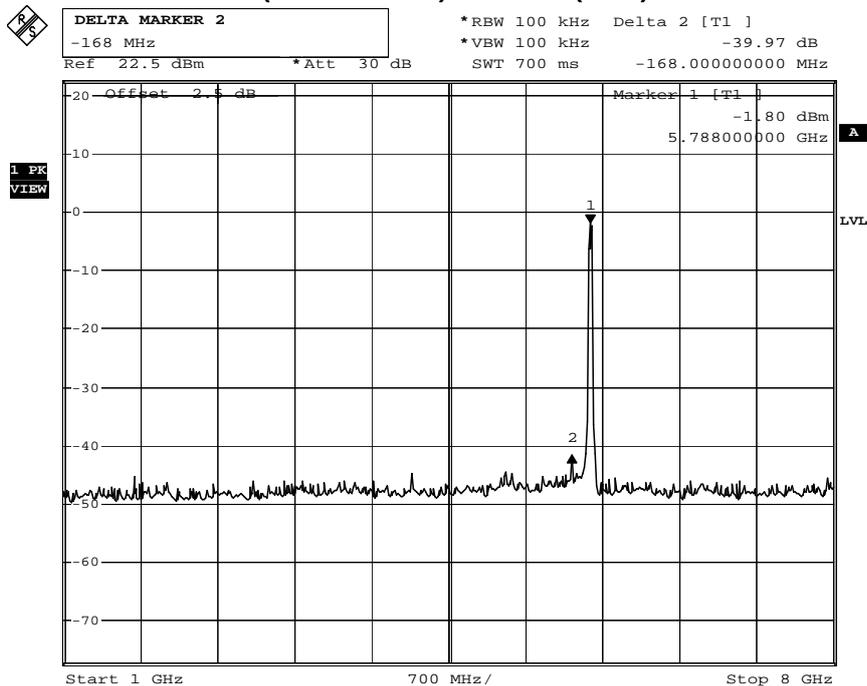
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5795MHz (30MHz~1GHz) -802.11n(40M)-ANT B



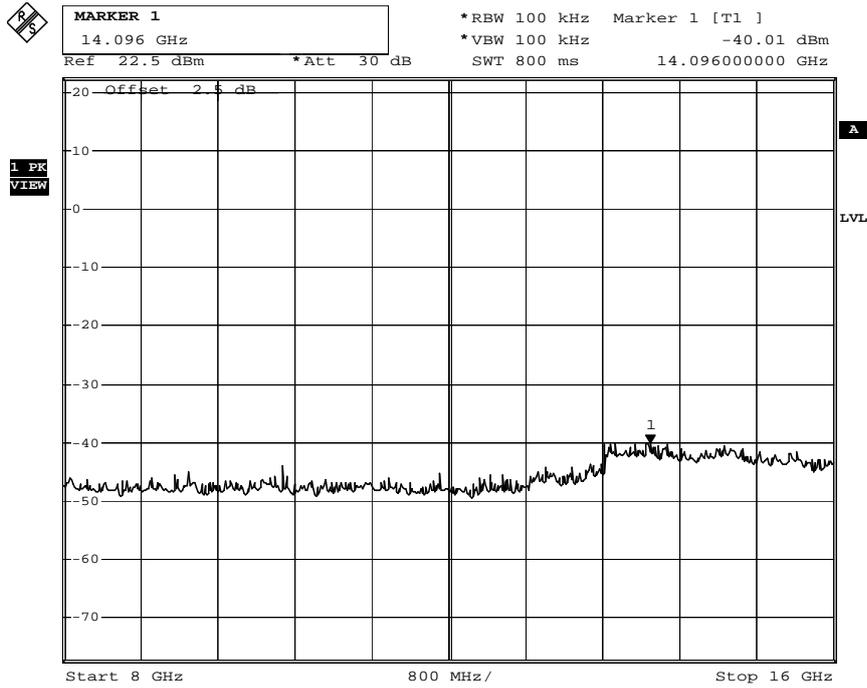
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5795MHz (1GHz~8GHz) -802.11n(40M)-ANT B



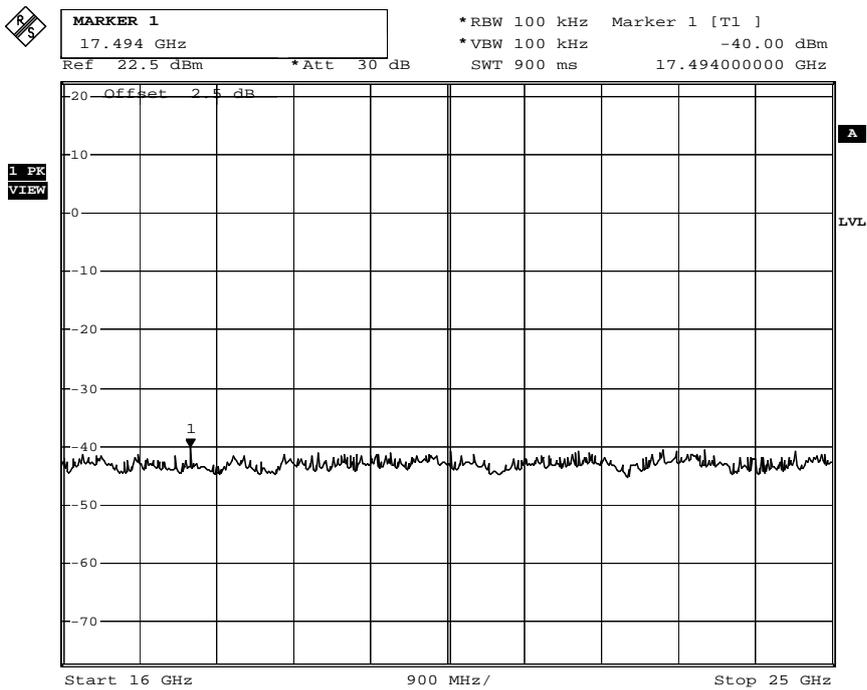
Date: 16.JUN.2011 23:12:41

5795MHz (8GHz~16GHz) -802.11n(40M)-ANT B



Date: 16.JUN.2011 23:07:53

5795MHz (16GHz~25GHz) -802.11n(40M)-ANT B



Date: 16.JUN.2011 23:09:16

6. Radiated Emission Band Edge

6.1. Test Equipment

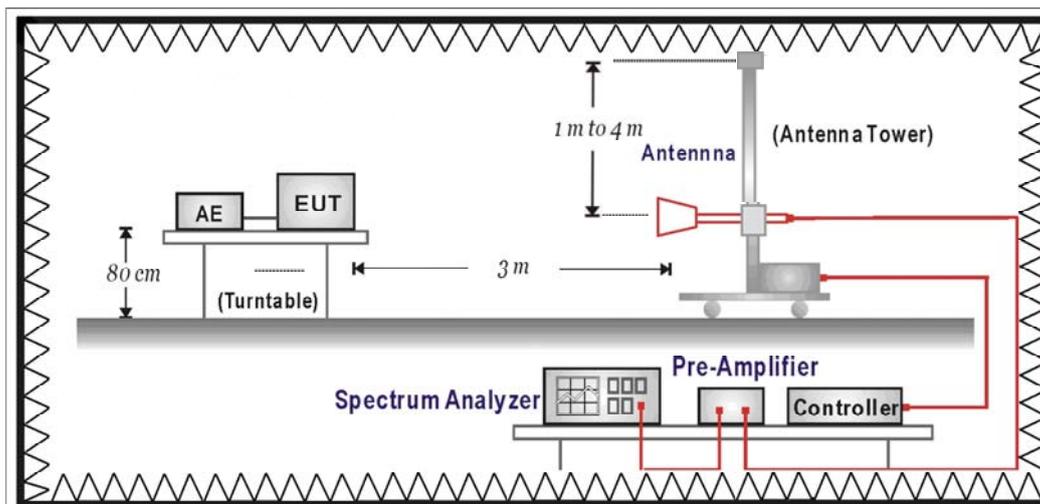
The following test equipments are used during the test:

Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2012/02/24
PSA Series Spectrum analyzer	Agilent	E4440A	MY46187335	2012/01/06
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/03/21

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

6.2. Test Setup



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: 2009 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: 2009 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.209: 2010

6.6. Uncertainty

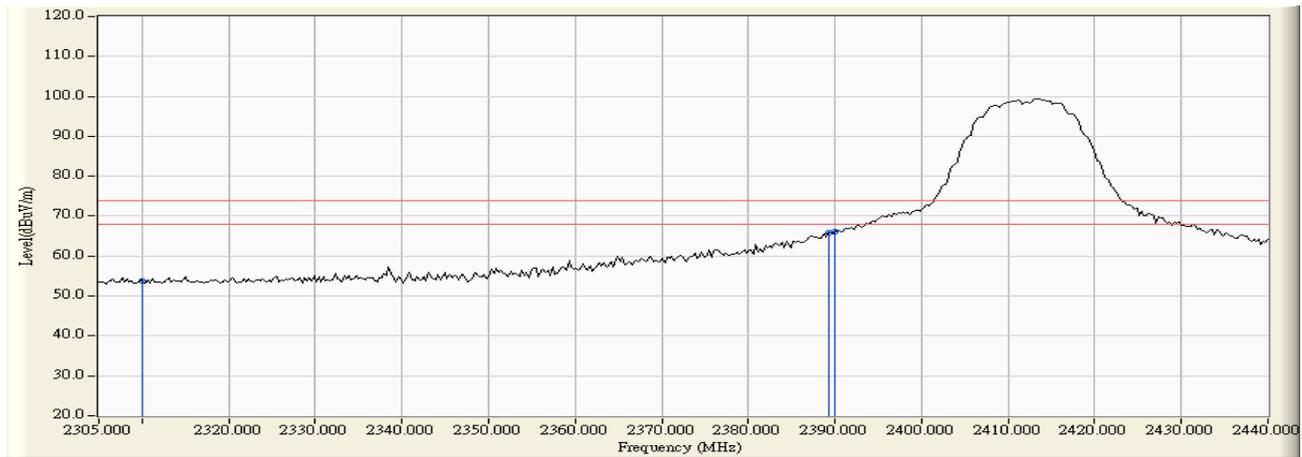
The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2011/06/10 - 16:35
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adaptor	Note : Mode 1: Transmit-2412,802.11b

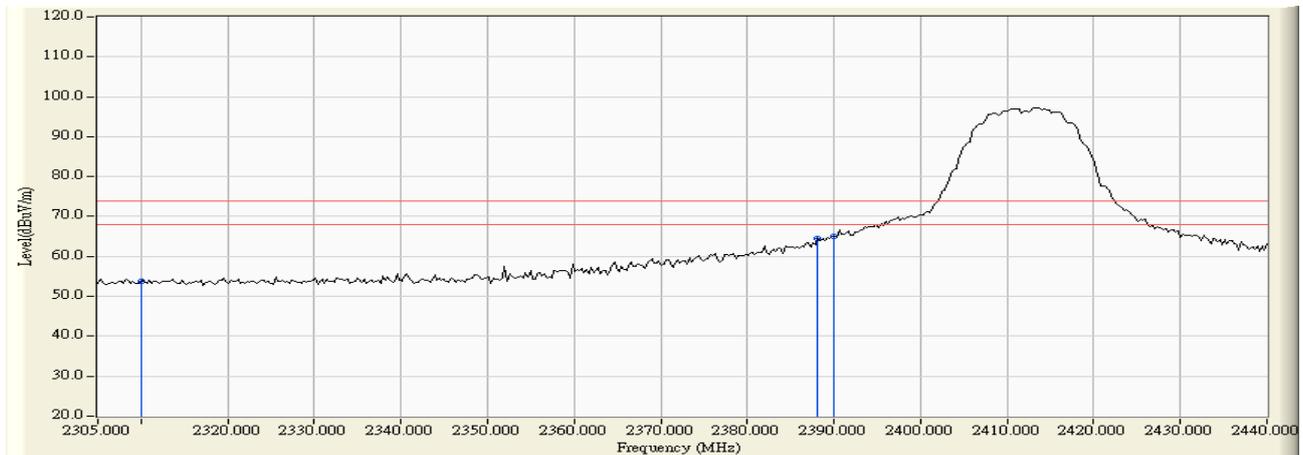


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	24.586	53.711	-20.289	74.000	PEAK
2	2389.240	29.932	35.988	65.920	-8.080	74.000	PEAK
3	* 2390.000	29.940	36.045	65.985	-8.015	74.000	PEAK

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 : 2011/06/10 - 16:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11b

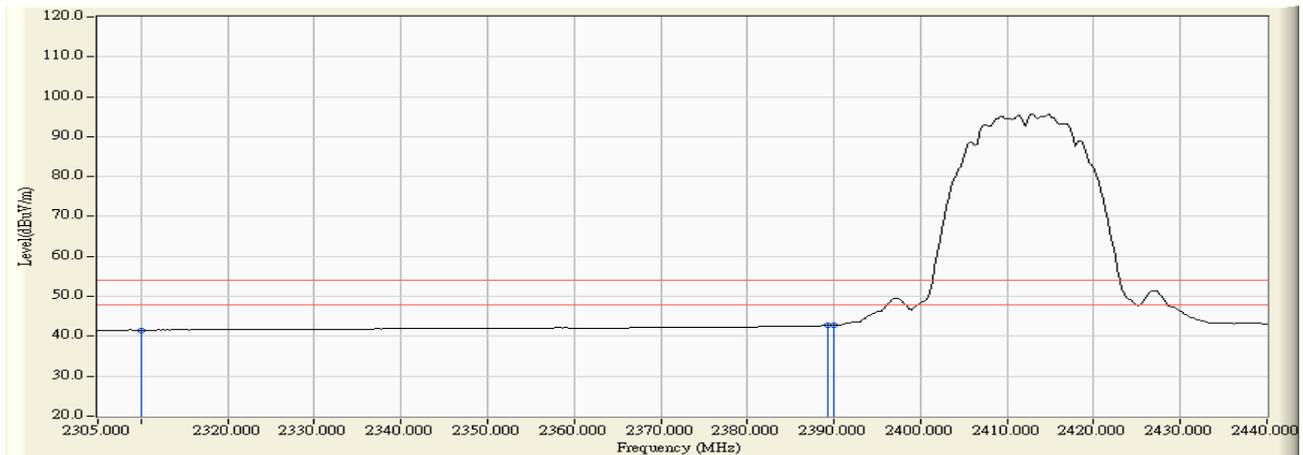


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	24.678	53.803	-20.197	74.000	PEAK
2	2388.160	29.921	34.504	64.425	-9.575	74.000	PEAK
3	* 2390.000	29.940	35.055	64.995	-9.005	74.000	PEAK

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 : 2011/06/10 - 16:37
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11b

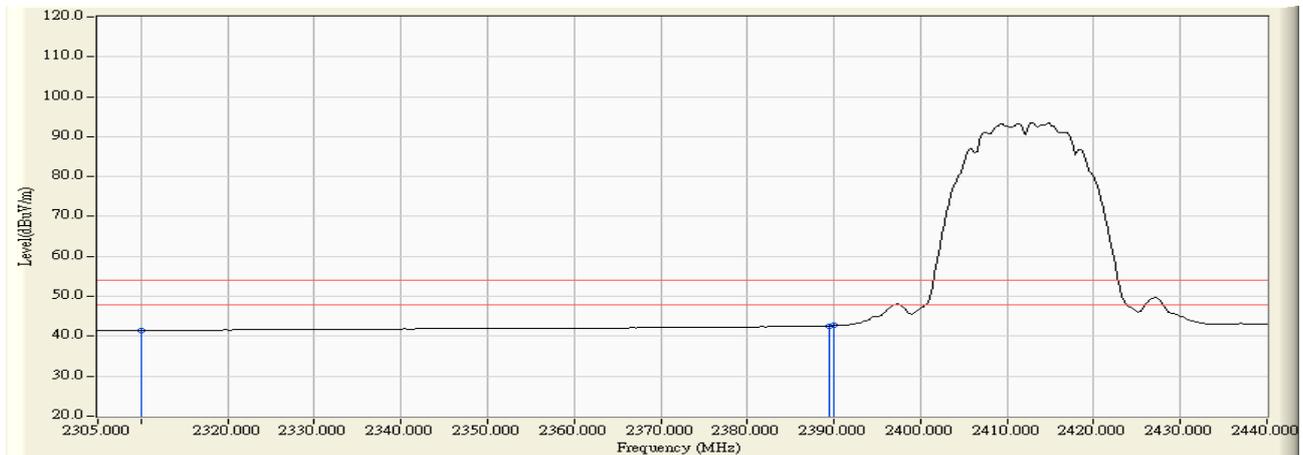


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	12.431	41.556	-12.444	54.000	AVERAGE
2	2389.240	29.932	12.800	42.732	-11.268	54.000	AVERAGE
3	* 2390.000	29.940	12.859	42.799	-11.201	54.000	AVERAGE

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 : 2011/06/10 - 16:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11b

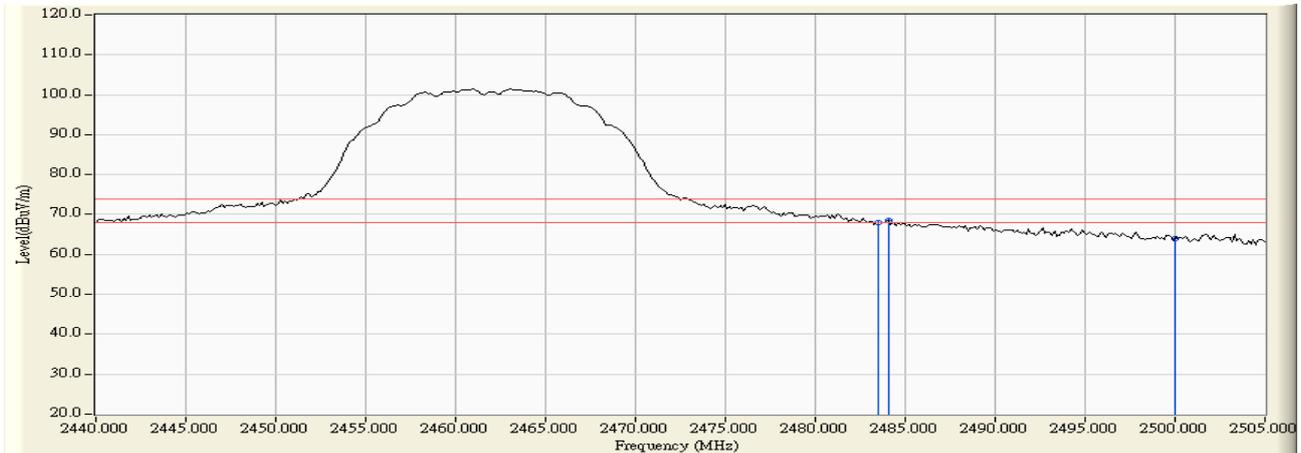


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	12.353	41.478	-12.522	54.000	AVERAGE
2	2389.510	29.934	12.708	42.643	-11.357	54.000	AVERAGE
3	* 2390.000	29.940	12.729	42.669	-11.331	54.000	AVERAGE

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 : 2011/06/10 - 16:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b

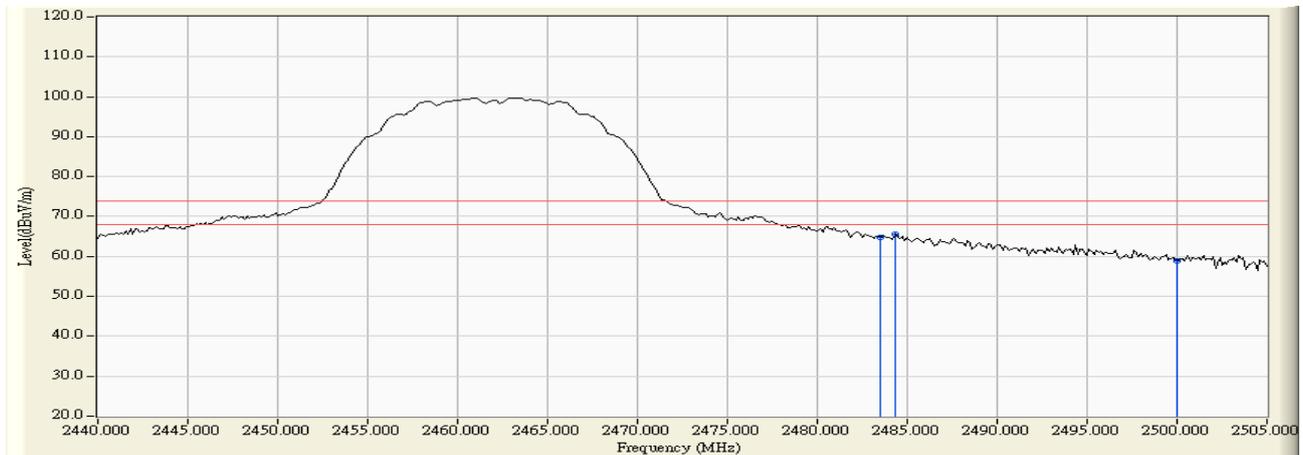


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	37.093	67.985	-6.015	74.000	PEAK
2	* 2484.070	30.897	37.623	68.521	-5.479	74.000	PEAK
3	2500.000	31.020	32.961	63.981	-10.019	74.000	PEAK

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 : 2011/06/10 - 16:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b

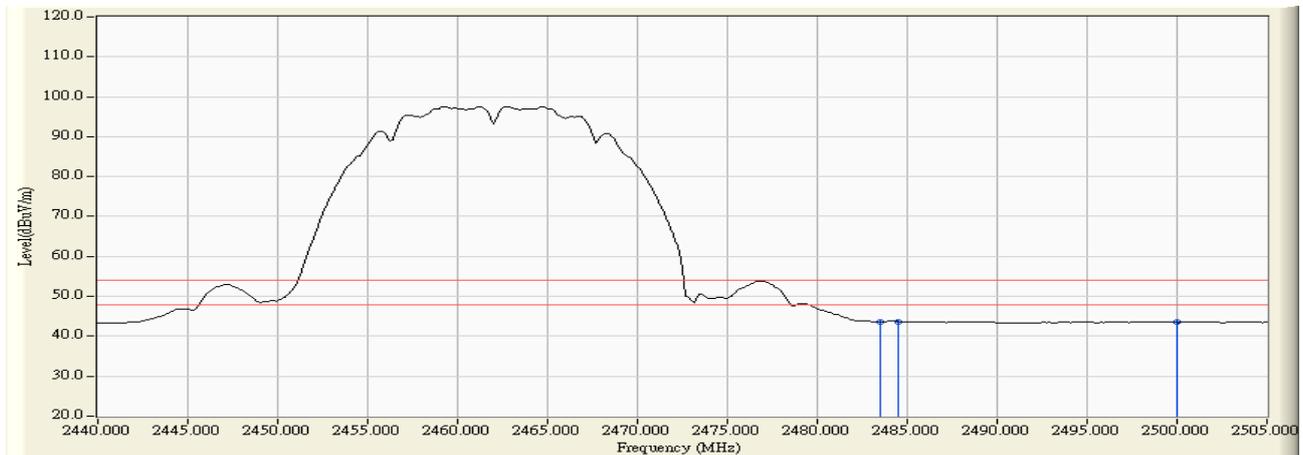


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	33.989	64.881	-9.119	74.000	PEAK
2	* 2484.330	30.901	34.715	65.616	-8.384	74.000	PEAK
3	2500.000	31.020	27.976	58.996	-15.004	74.000	PEAK

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 : 2011/06/10 - 16:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	12.783	43.675	-10.325	54.000	AVERAGE
2	* 2484.460	30.902	12.813	43.715	-10.285	54.000	AVERAGE
3	2500.000	31.020	12.453	43.473	-10.527	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 : 2011/06/10 - 16:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11b

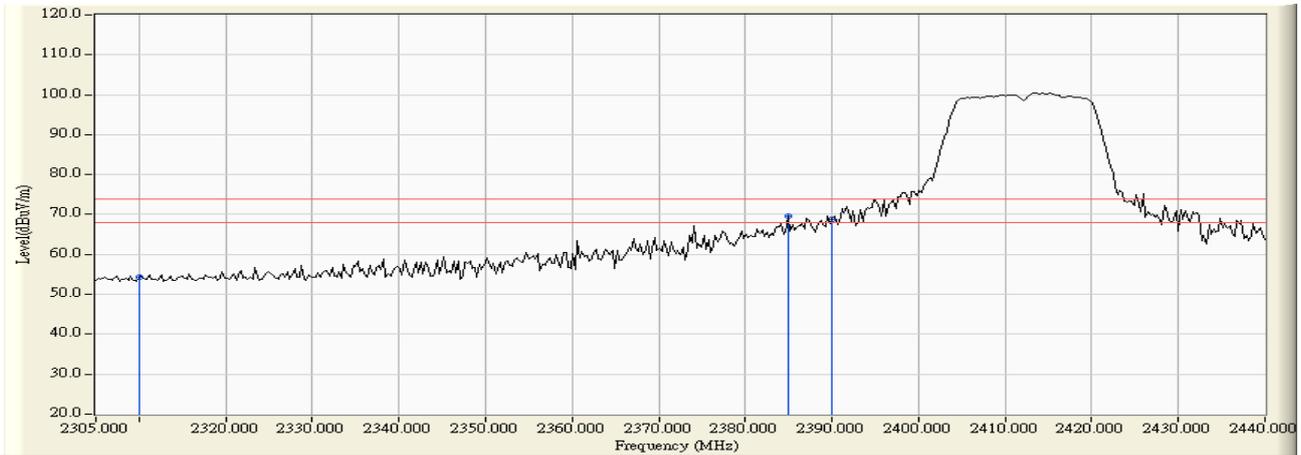


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	12.537	43.429	-10.571	54.000	AVERAGE
2	* 2483.680	30.894	12.545	43.439	-10.561	54.000	AVERAGE
3	2500.000	31.020	12.260	43.280	-10.720	54.000	AVERAGE

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 : 2011/06/10 - 17:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

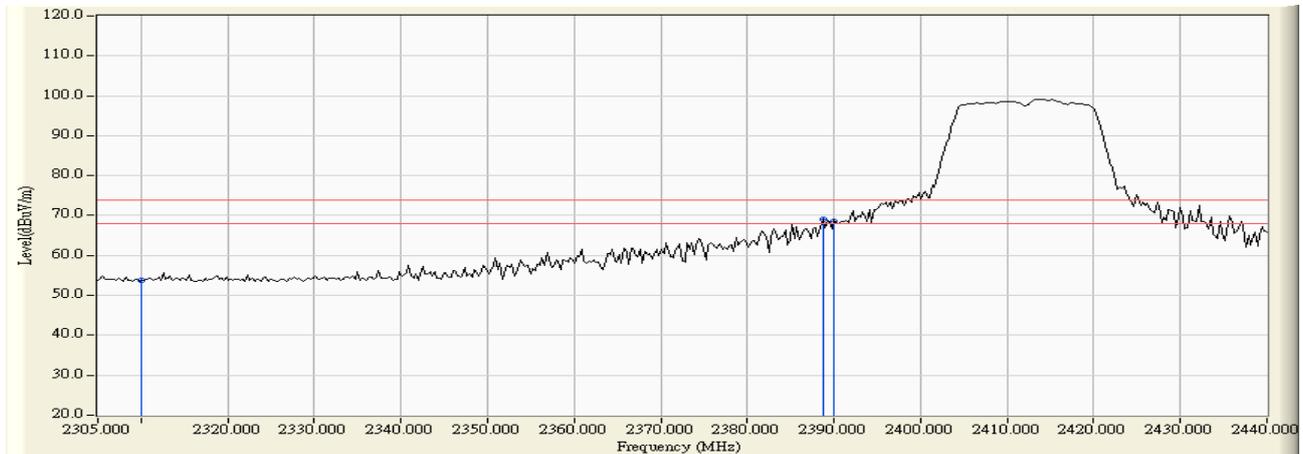


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	25.116	54.241	-19.759	74.000	PEAK
2	* 2384.920	29.888	39.737	69.625	-4.375	74.000	PEAK
3	2390.000	29.940	38.909	68.849	-5.151	74.000	PEAK

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 : 2011/06/10 - 16:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

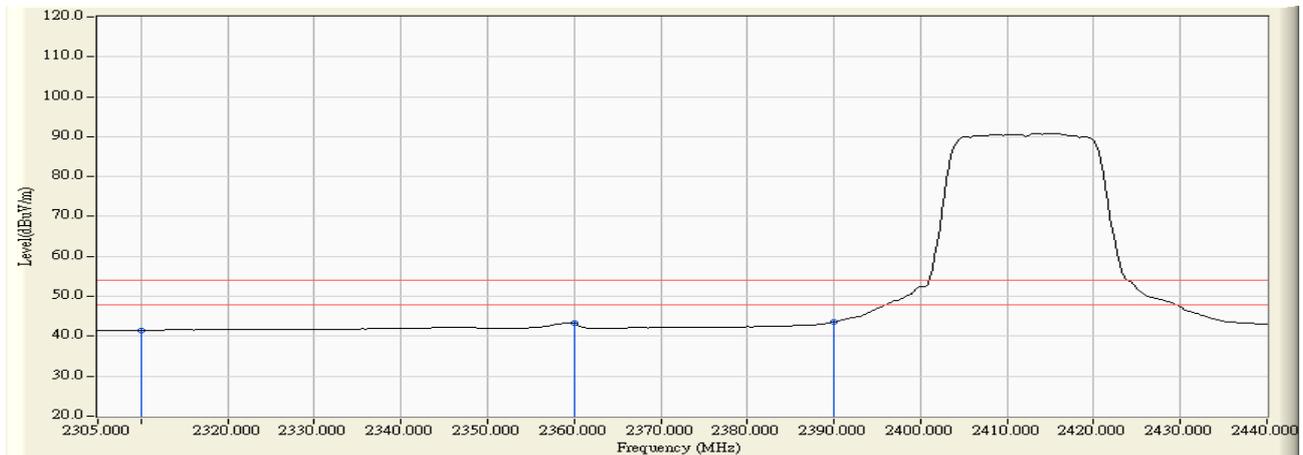


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	24.536	53.661	-20.339	74.000	PEAK
2	* 2388.700	29.927	39.192	69.119	-4.881	74.000	PEAK
3	2390.000	29.940	38.649	68.589	-5.411	74.000	PEAK

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 : 2011/06/10 - 17:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

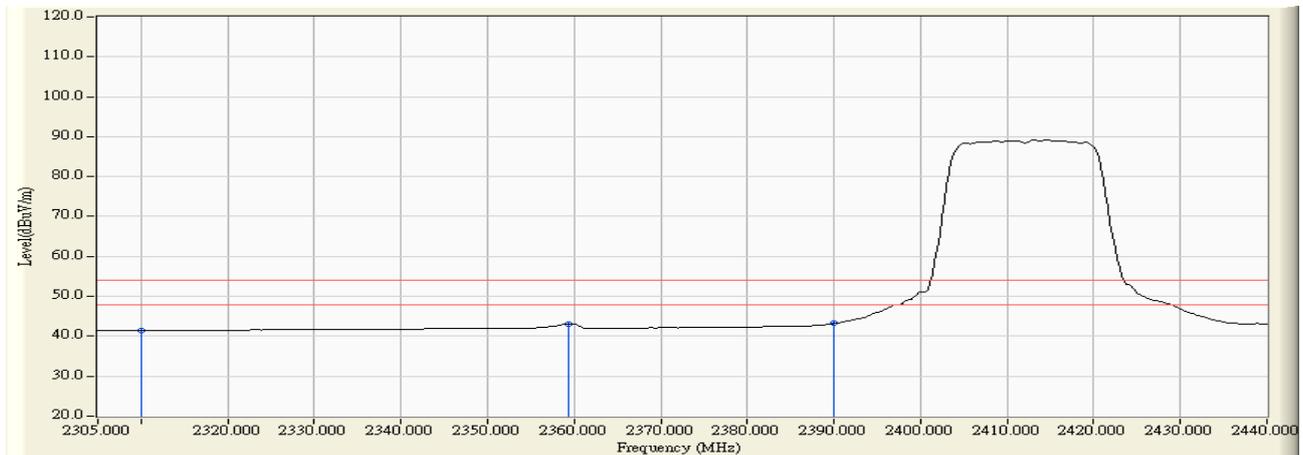


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	12.422	41.547	-12.453	54.000	AVERAGE
2	2360.080	29.636	13.613	43.248	-10.752	54.000	AVERAGE
3	* 2390.000	29.940	13.651	43.591	-10.409	54.000	AVERAGE

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 : 2011/06/10 - 17:00
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11g

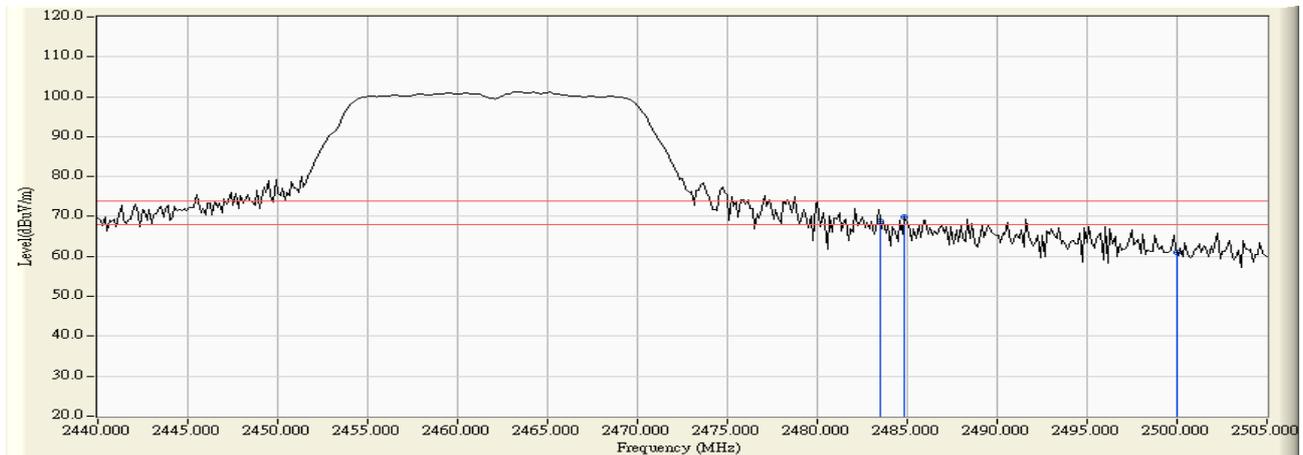


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	12.338	41.463	-12.537	54.000	AVERAGE
2	2359.270	29.627	13.429	43.056	-10.944	54.000	AVERAGE
3	* 2390.000	29.940	13.260	43.200	-10.800	54.000	AVERAGE

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 : 2011/06/10 - 17:27
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

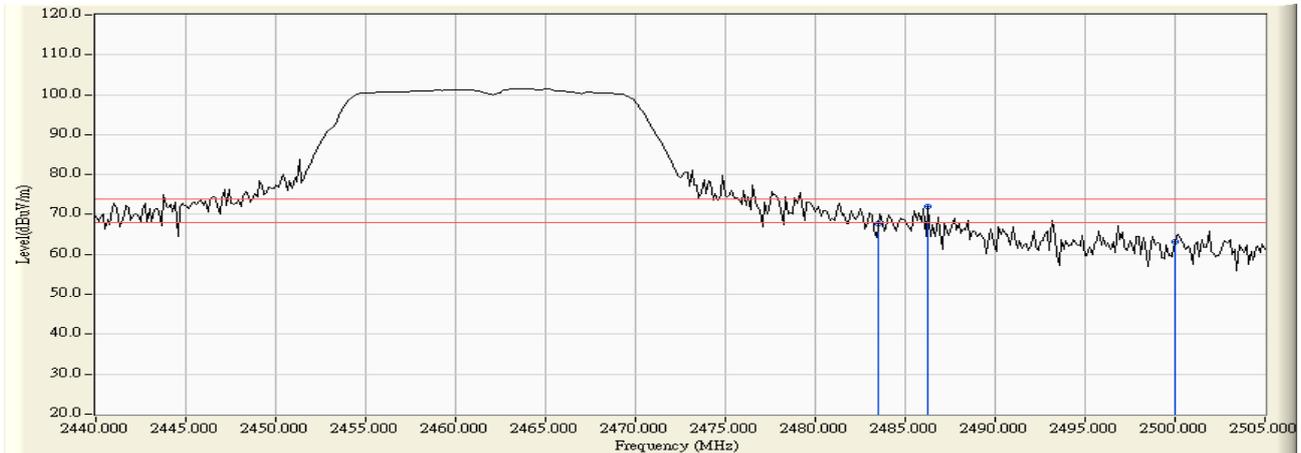


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	37.772	68.664	-5.336	74.000	PEAK
2	* 2484.850	30.906	38.874	69.780	-4.220	74.000	PEAK
3	2500.000	31.020	29.963	60.983	-13.017	74.000	PEAK

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 : 2011/06/10 - 17:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

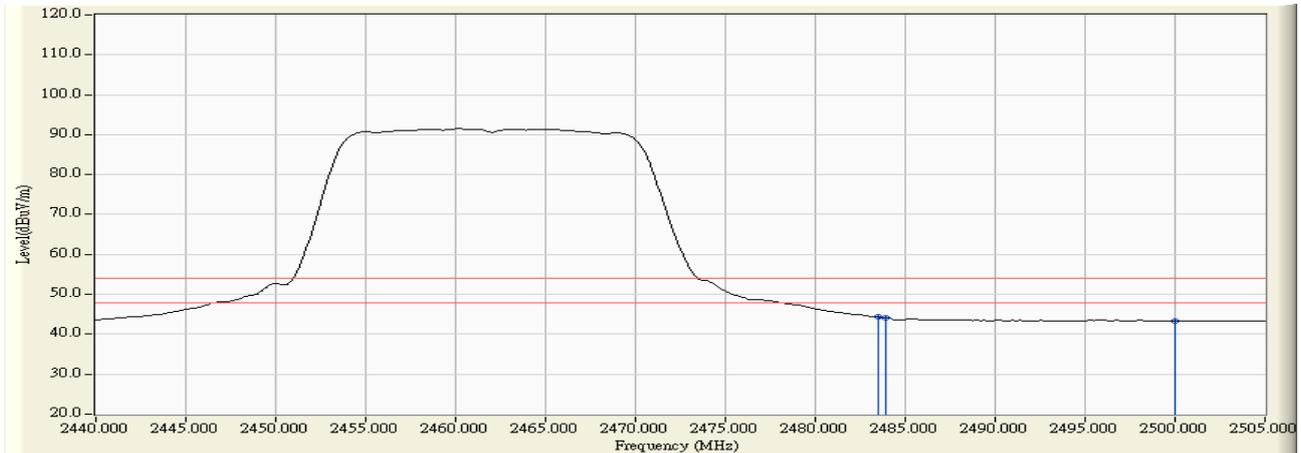


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	36.905	67.797	-6.203	74.000	PEAK
2	* 2486.280	30.921	41.152	72.072	-1.928	74.000	PEAK
3	2500.000	31.020	32.056	63.076	-10.924	74.000	PEAK

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 : 2011/06/10 - 17:28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

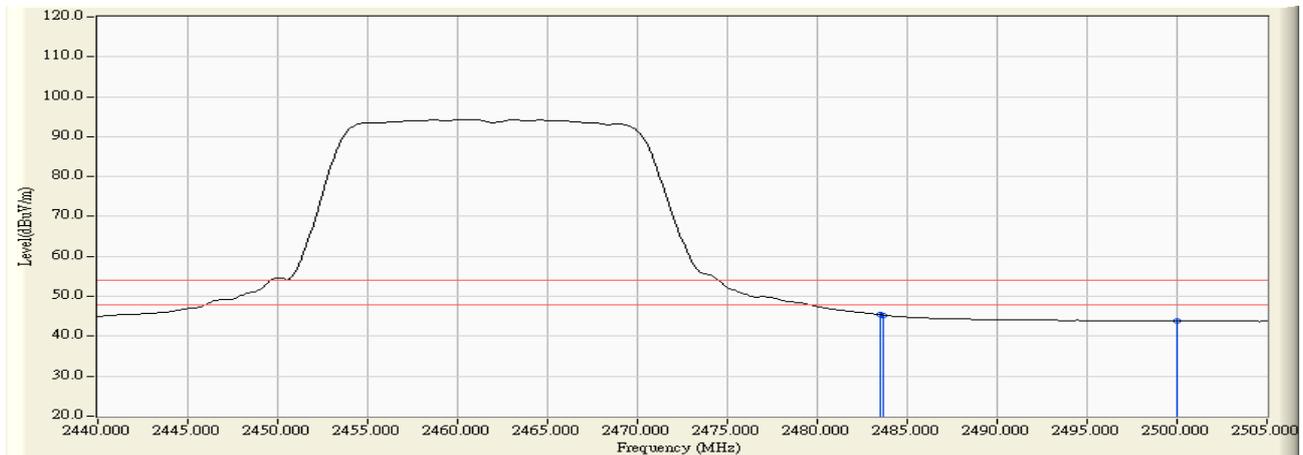


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	13.387	44.279	-9.721	54.000	AVERAGE
2		2483.940	30.896	13.243	44.140	-9.860	54.000	AVERAGE
3		2500.000	31.020	12.415	43.435	-10.565	54.000	AVERAGE

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 : 2011/06/10 - 17:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11g

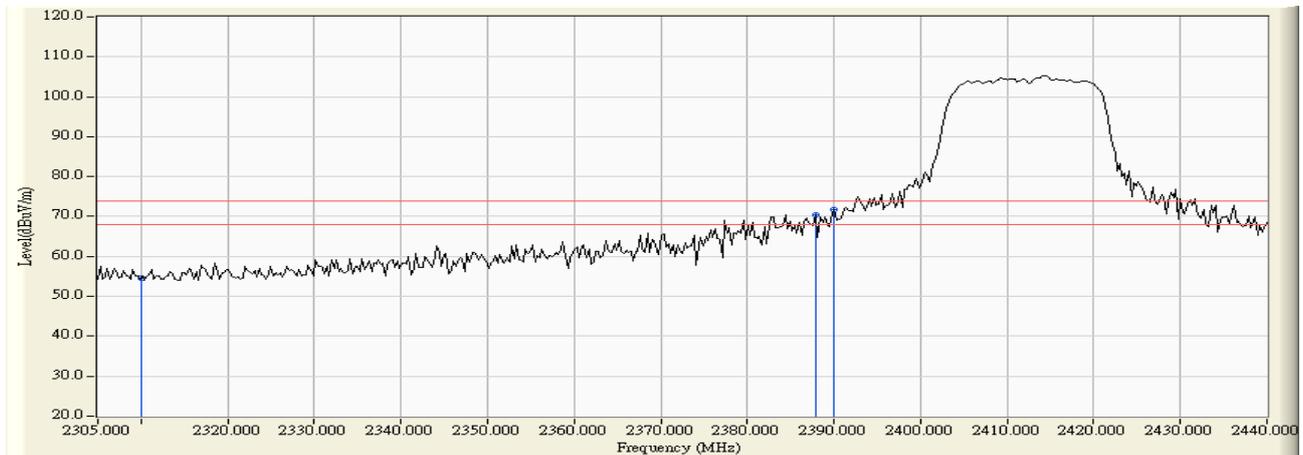


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	14.459	45.351	-8.649	54.000	AVERAGE
2		2483.680	30.894	14.373	45.267	-8.733	54.000	AVERAGE
3		2500.000	31.020	12.782	43.802	-10.198	54.000	AVERAGE

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 : 2011/06/10 - 17:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

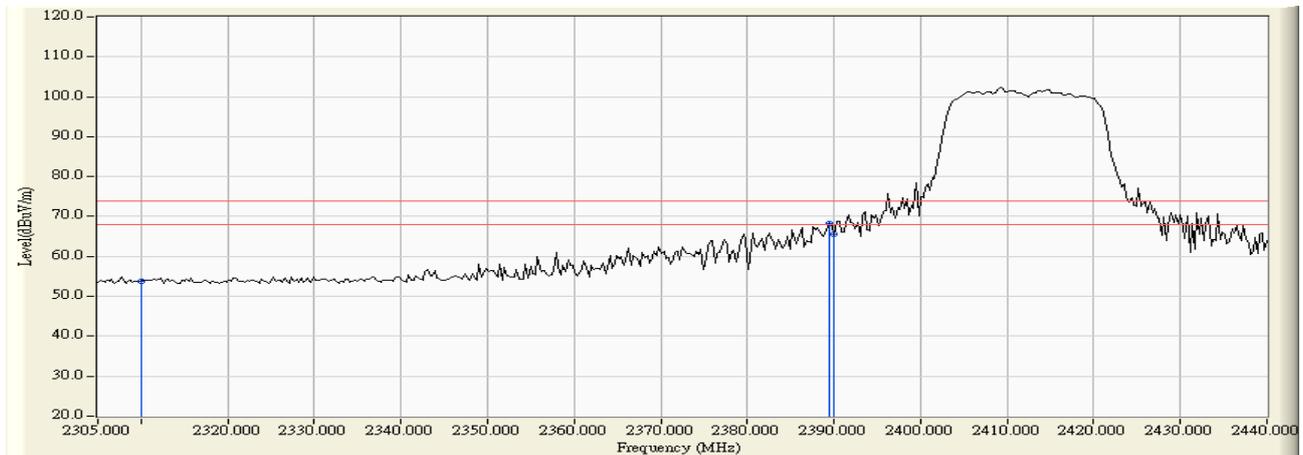


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	25.583	54.708	-19.292	74.000	PEAK
2	2387.890	29.919	40.543	70.461	-3.539	74.000	PEAK
3	* 2390.000	29.940	41.718	71.658	-2.342	74.000	PEAK

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 : 2011/06/10 - 17:35
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

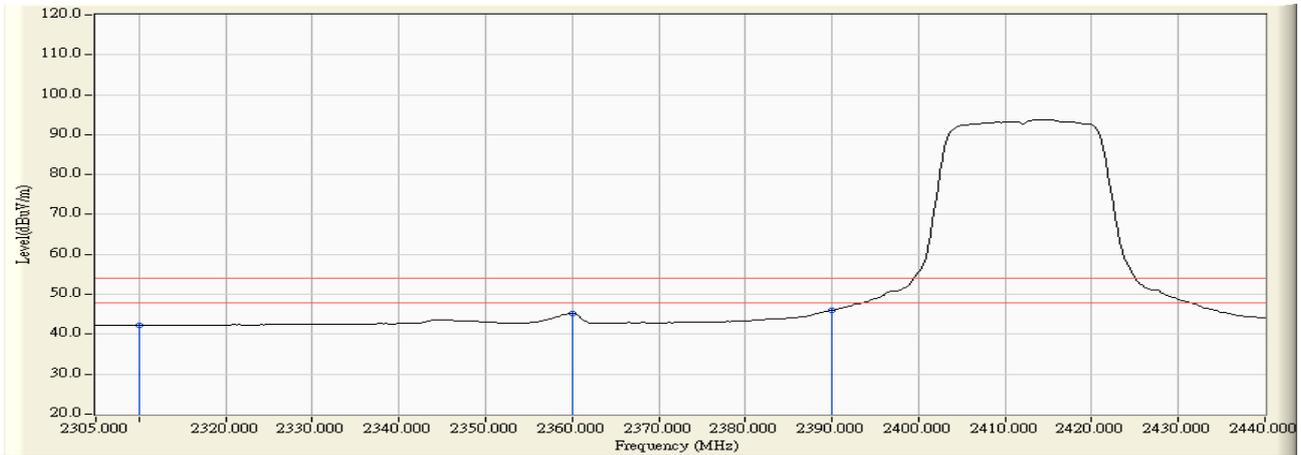


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	24.785	53.910	-20.090	74.000	PEAK
2	* 2389.510	29.934	38.343	68.278	-5.722	74.000	PEAK
3	2390.000	29.940	35.701	65.641	-8.359	74.000	PEAK

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 : 2011/06/10 - 17:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

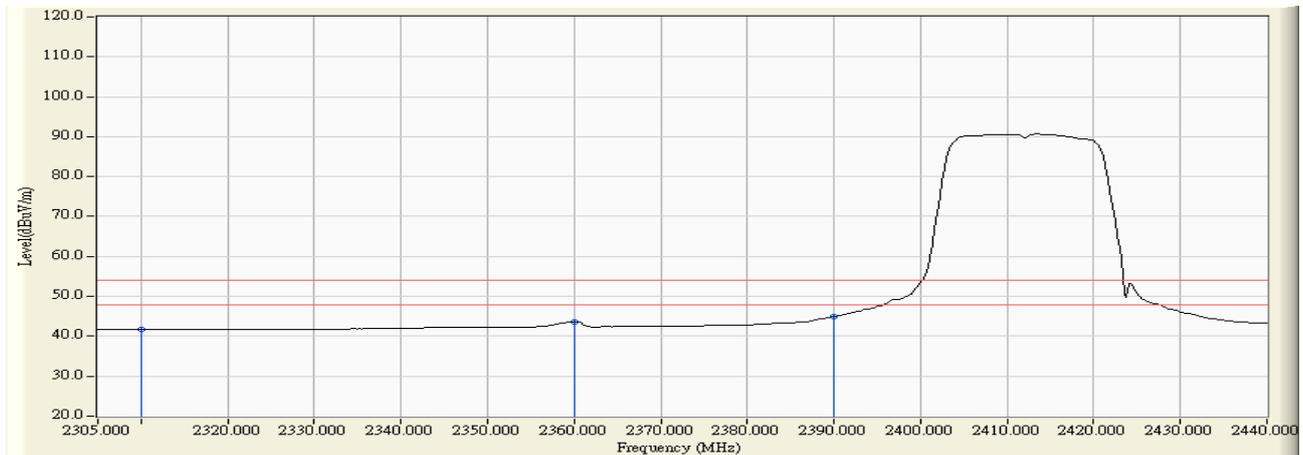


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	13.143	42.268	-11.732	54.000	AVERAGE
2	2360.080	29.636	15.540	45.175	-8.825	54.000	AVERAGE
3	* 2390.000	29.940	16.058	45.998	-8.002	54.000	AVERAGE

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 : 2011/06/10 - 17:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2412,802.11n(20M)

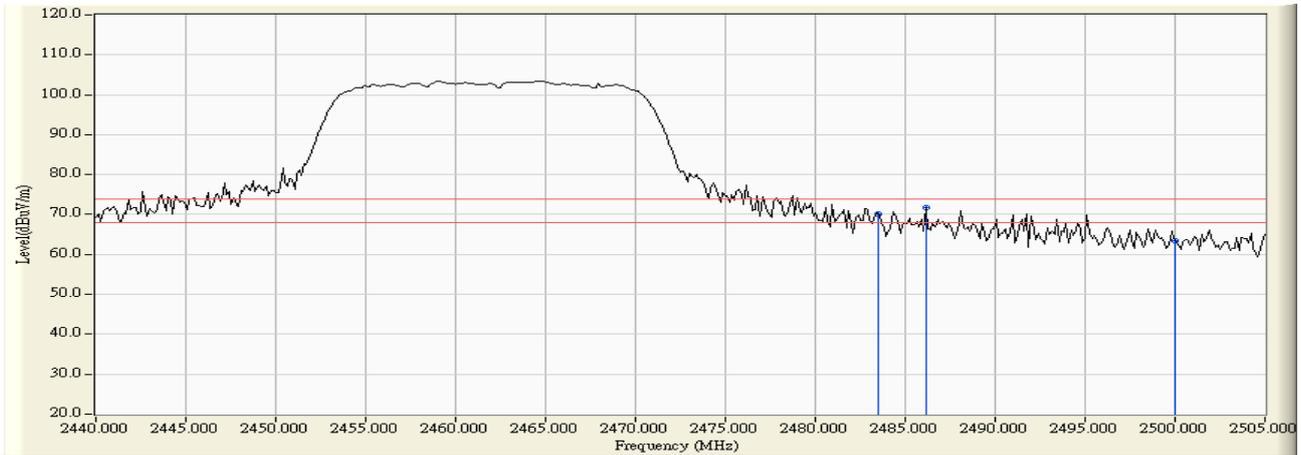


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	12.516	41.641	-12.359	54.000	AVERAGE
2	2360.080	29.636	14.002	43.637	-10.363	54.000	AVERAGE
3	* 2390.000	29.940	14.972	44.912	-9.088	54.000	AVERAGE

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 : 2011/06/10 - 18:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

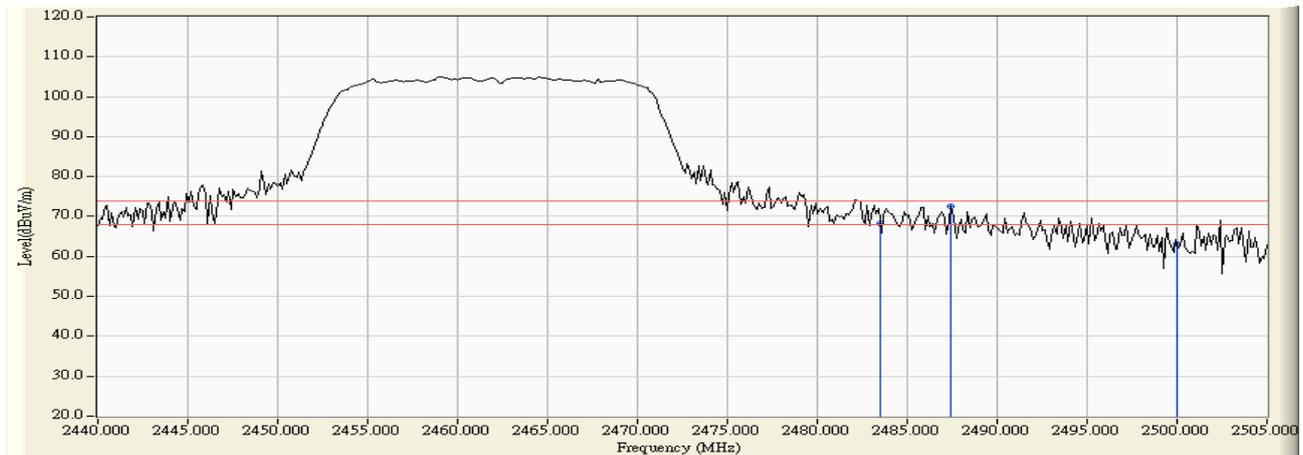


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	39.287	70.179	-3.821	74.000	PEAK
2	* 2486.150	30.919	40.719	71.638	-2.362	74.000	PEAK
3	2500.000	31.020	32.465	63.485	-10.515	74.000	PEAK

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 : 2011/06/10 - 18:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

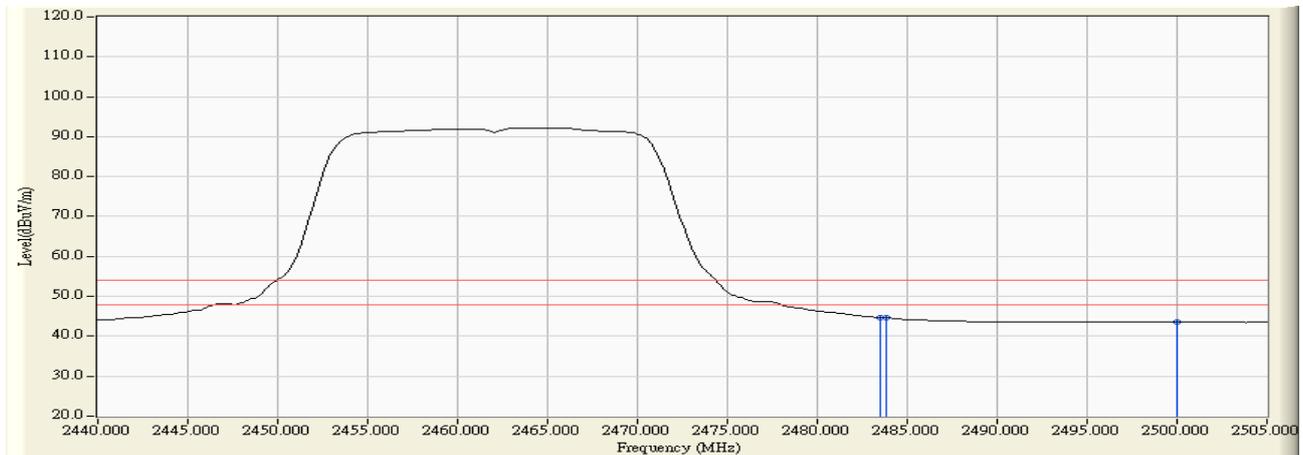


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	37.302	68.194	-5.806	74.000	PEAK
2	* 2487.450	30.933	41.649	72.581	-1.419	74.000	PEAK
3	2500.000	31.020	32.123	63.143	-10.857	74.000	PEAK

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 : 2011/06/10 - 18:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

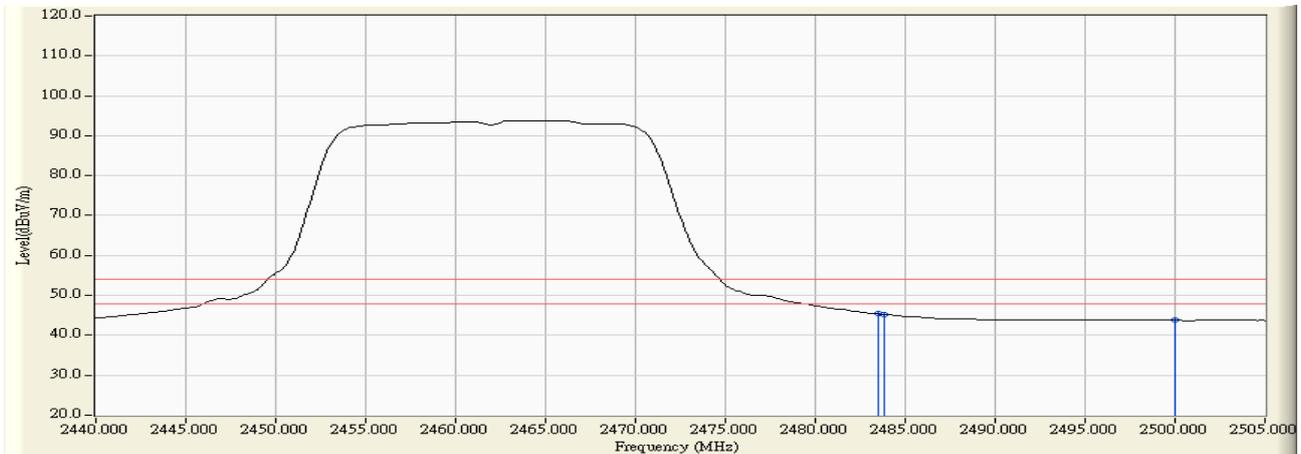


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	13.808	44.700	-9.300	54.000	PEAK
2		2483.810	30.895	13.738	44.633	-9.367	54.000	PEAK
3		2500.000	31.020	12.518	43.538	-10.462	54.000	PEAK

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 : 2011/06/10 - 18:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2462,802.11n(20M)

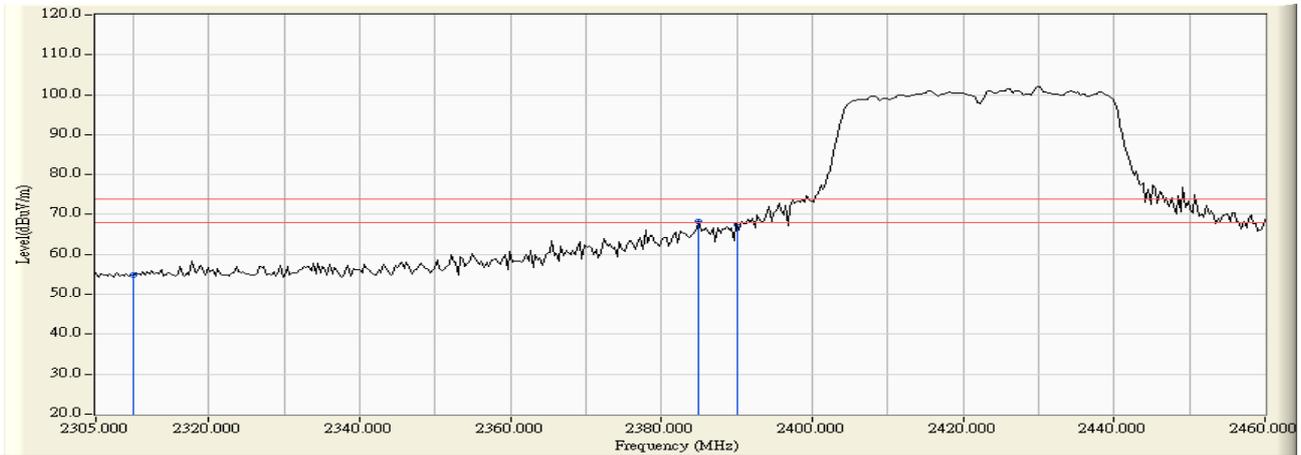


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	14.445	45.337	-8.663	54.000	AVERAGE
2		2483.810	30.895	14.330	45.225	-8.775	54.000	AVERAGE
3		2500.000	31.020	12.786	43.806	-10.194	54.000	AVERAGE

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 : 2011/06/20 - 15:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

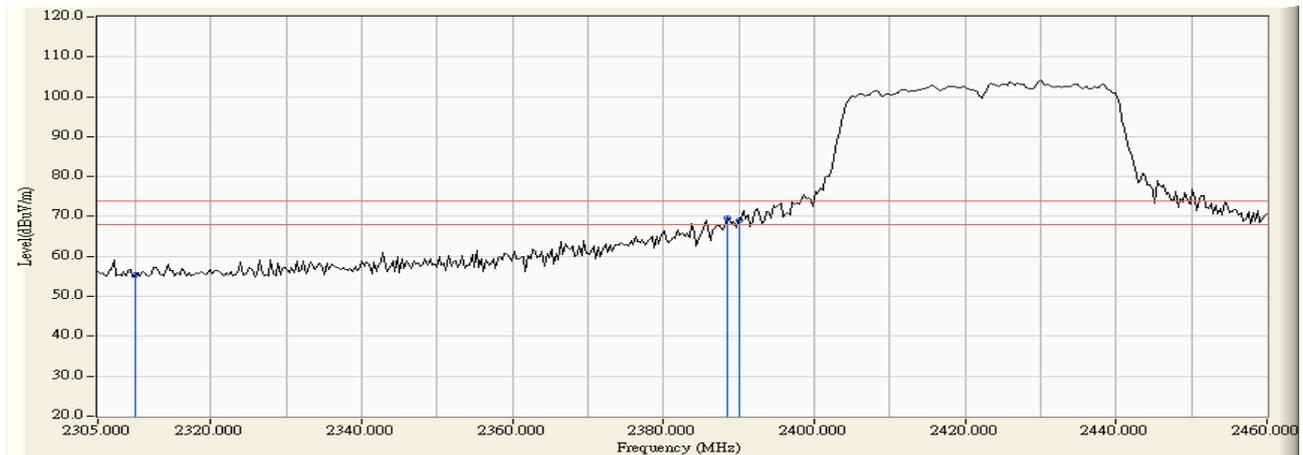


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	25.843	54.968	-19.032	74.000	PEAK
2	* 2384.980	29.889	38.300	68.189	-5.811	74.000	PEAK
3	2390.000	29.940	37.521	67.461	-6.539	74.000	PEAK

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 : 2011/06/20 - 15:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

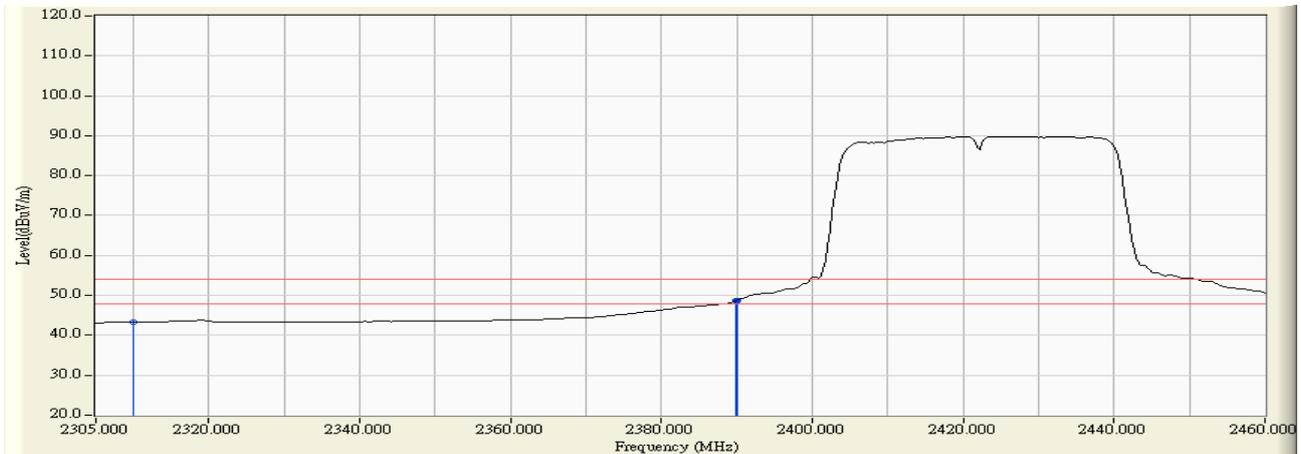


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	26.205	55.330	-18.670	74.000	PEAK
2	* 2388.390	29.923	39.652	69.576	-4.424	74.000	PEAK
3	2390.000	29.940	39.122	69.062	-4.938	74.000	PEAK

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 : 2011/06/20 - 15:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

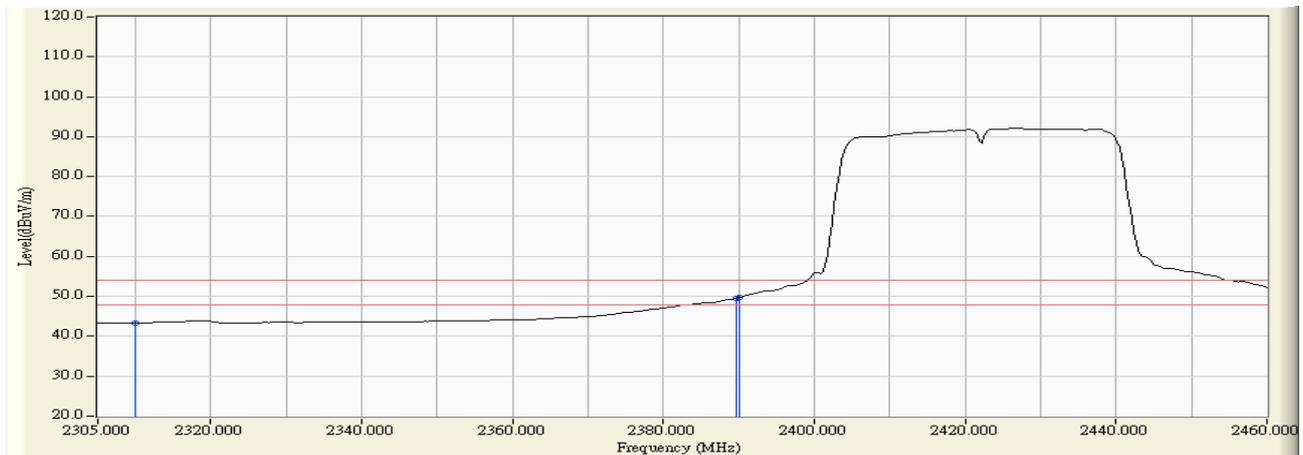


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	14.127	43.252	-10.748	54.000	AVERAGE
2	2389.940	29.939	18.708	48.647	-5.353	54.000	AVERAGE
3	* 2390.000	29.940	18.742	48.682	-5.318	54.000	AVERAGE

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 : 2011/06/20 - 15:50
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2422,802.11n(40M)

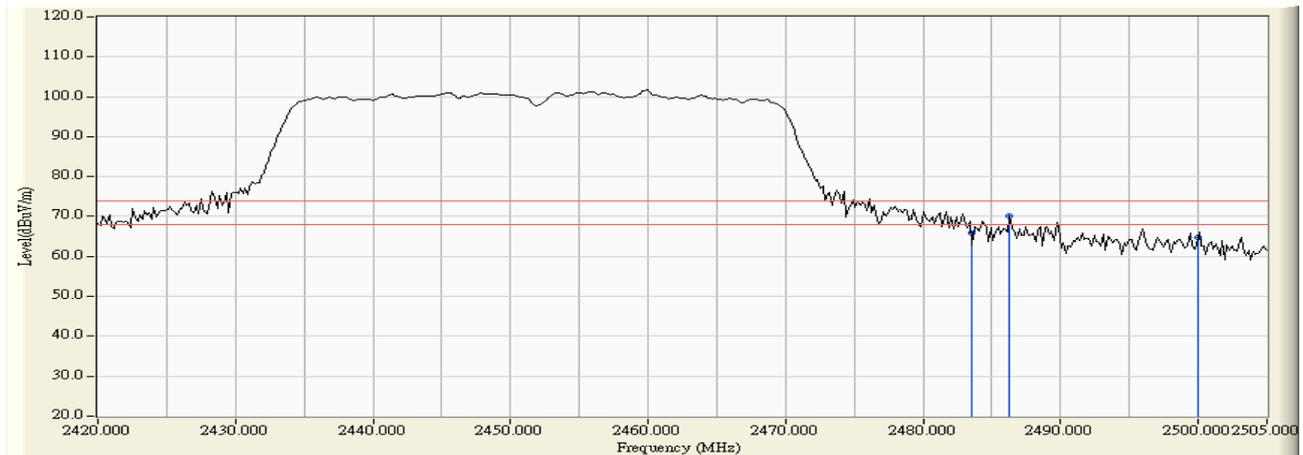


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.125	14.242	43.367	-10.633	54.000	AVERAGE
2	2389.630	29.937	19.552	49.488	-4.512	54.000	AVERAGE
3	* 2390.000	29.940	19.750	49.690	-4.310	54.000	AVERAGE

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 : 2011/06/20 - 16:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)

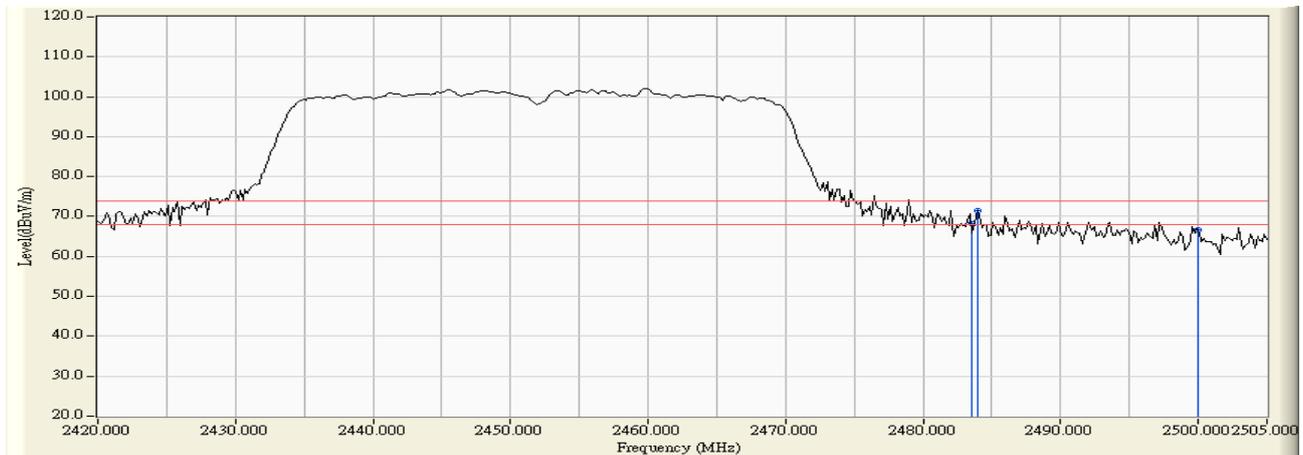


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	34.853	65.745	-8.255	74.000	PEAK
2	* 2486.300	30.921	39.294	70.215	-3.785	74.000	PEAK
3	2500.000	31.020	33.814	64.834	-9.166	74.000	PEAK

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 : 2011/06/20 - 16:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)

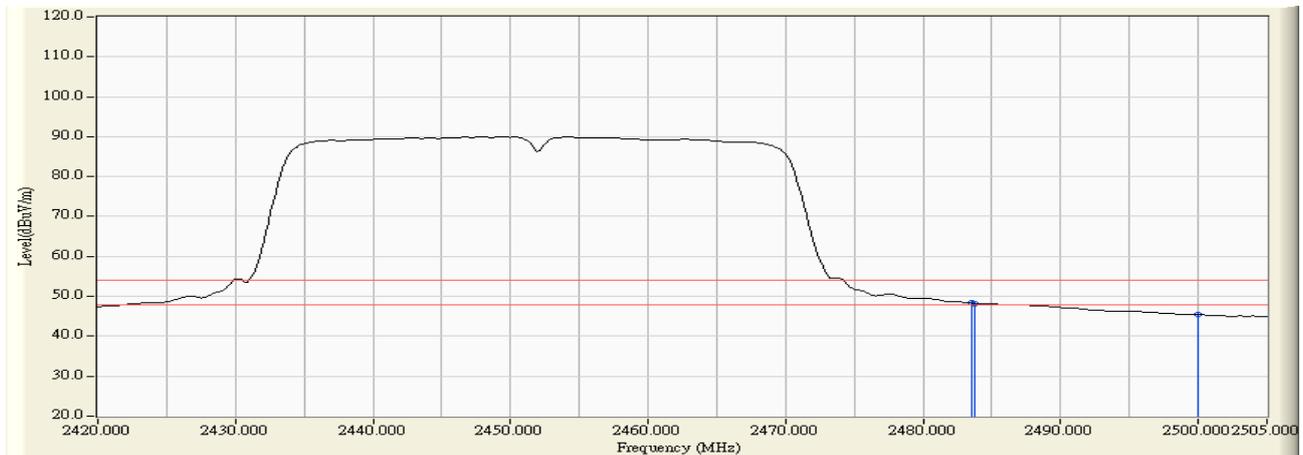


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	30.892	37.241	68.133	-5.867	74.000	PEAK
2	* 2483.920	30.896	40.707	71.603	-2.397	74.000	PEAK
3	2500.000	31.020	35.507	66.527	-7.473	74.000	PEAK

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 : 2011/06/20 - 16:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - HORIZONTAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	17.409	48.301	-5.699	54.000	AVERAGE
2		2483.750	30.895	17.343	48.238	-5.762	54.000	AVERAGE
3		2500.000	31.020	14.357	45.377	-8.623	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 : 2011/06/20 - 16:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G(2011-05) - VERTICAL	Power : DC 5V (Power by PC)
EUT : Dual-band Wireless USB Adopter	Note : Mode 1: Transmit-2452,802.11n(40M)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	30.892	17.718	48.610	-5.390	54.000	AVERAGE
2		2483.750	30.895	17.636	48.531	-5.469	54.000	AVERAGE
3		2500.000	31.020	14.746	45.766	-8.234	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

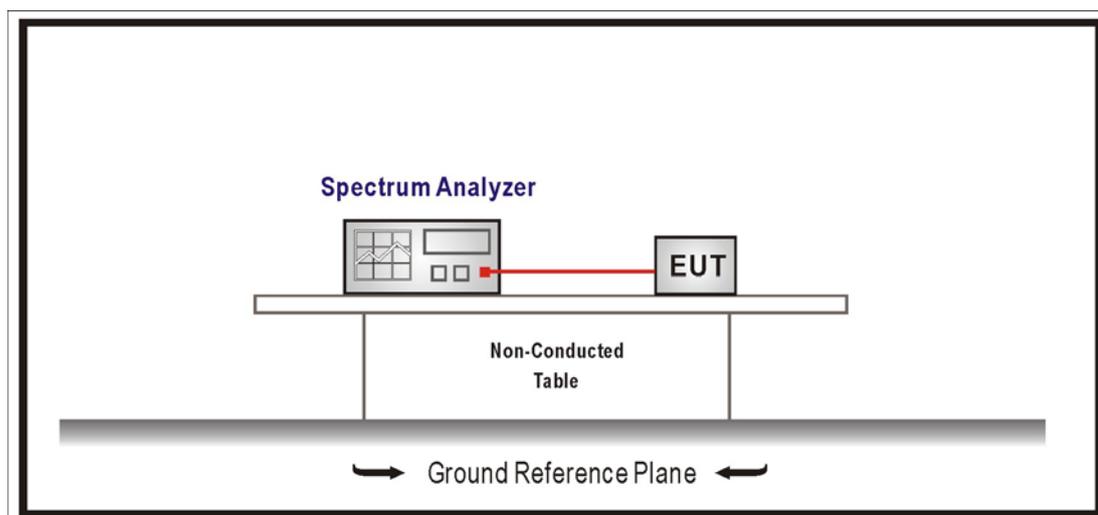
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/16

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: 2009; 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: 2010

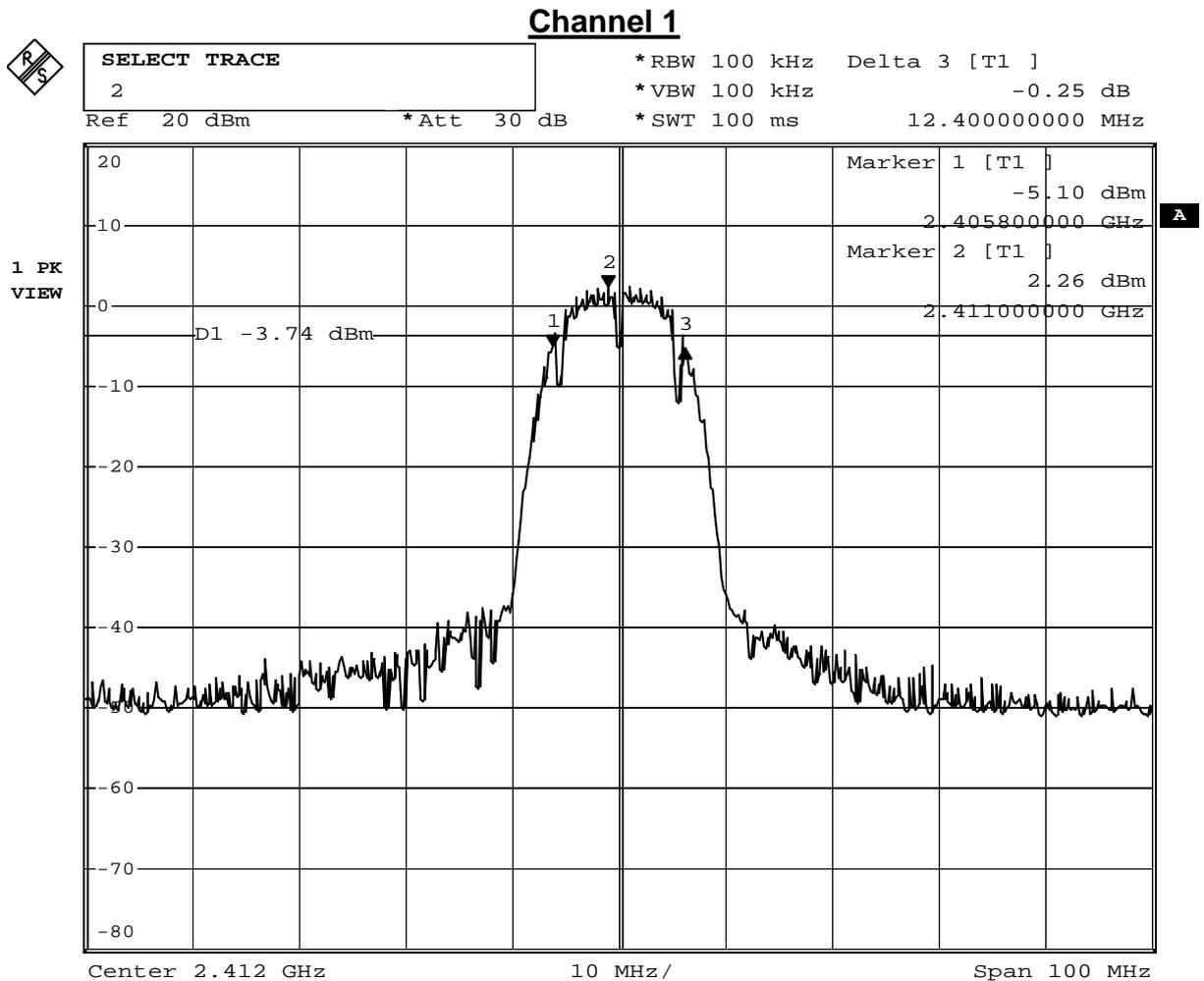
7.6. Uncertainty

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

7.7. Test Result

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412.00	12.4	≥ 0.5	Pass
6	2437.00	10.4	≥ 0.5	Pass
11	2462.00	10.4	≥ 0.5	Pass



Date: 26.MAY.2011 17:13:51

Channel 6

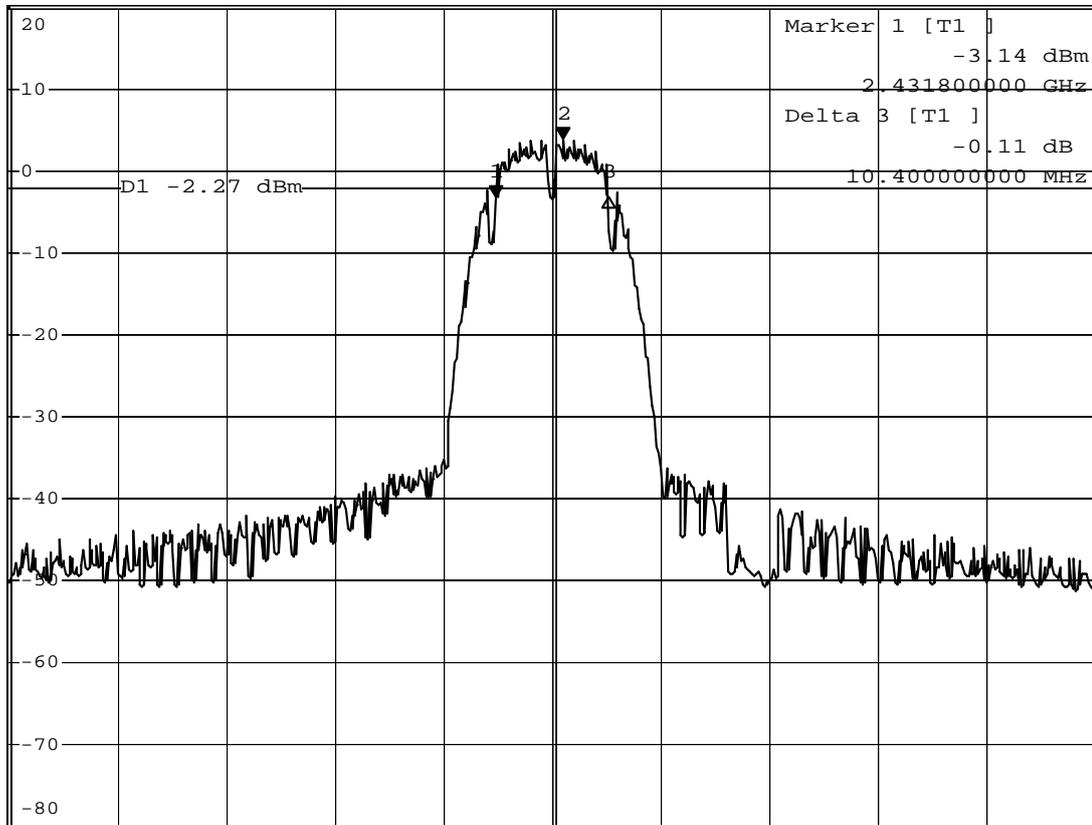


MARKER 2
2.438 GHz

*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz 3.73 dBm
*SWT 200 ms 2.438000000 GHz

Ref 20 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 14:24:35

Channel 11

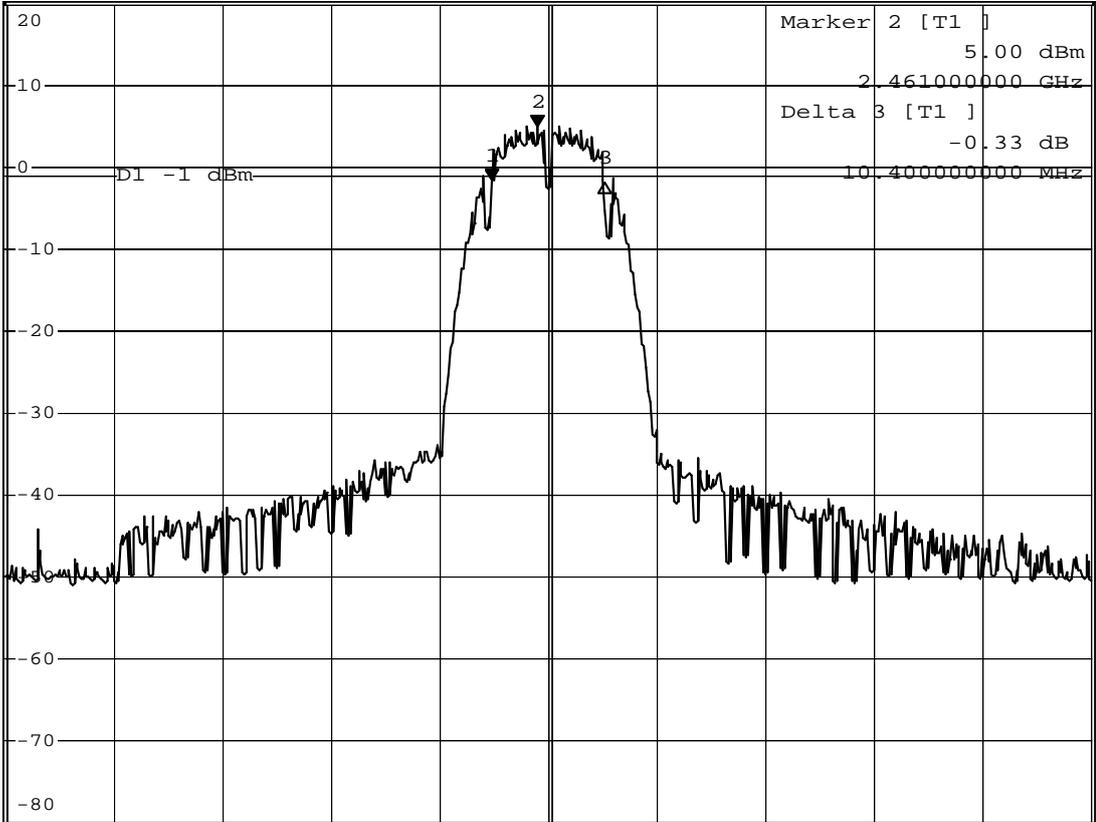


MARKER 1
2.4568 GHz

*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -1.69 dBm
*SWT 200 ms 2.456800000 GHz

Ref 20 dBm *Att 30 dB

1 PK
VIEW



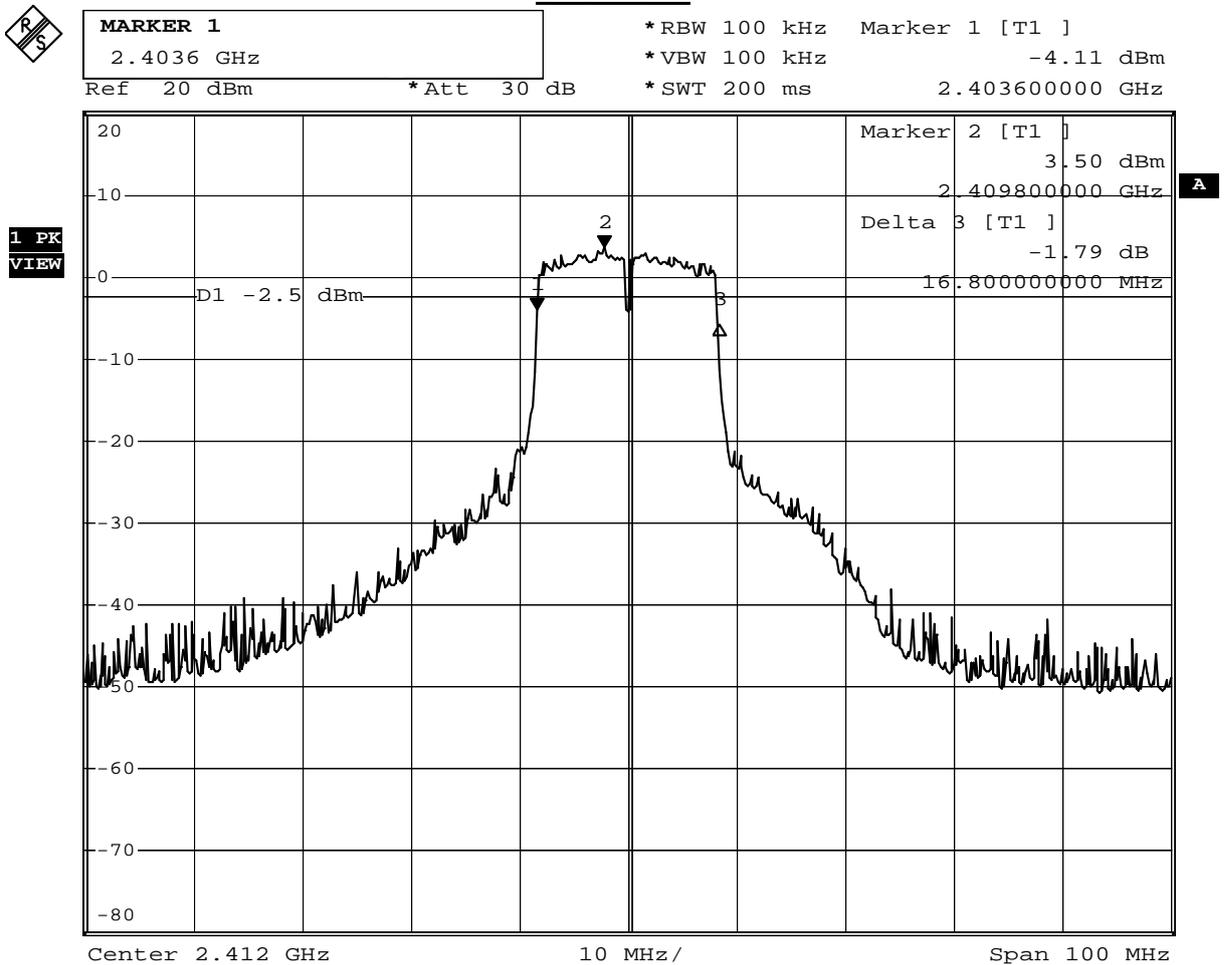
Center 2.462 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 14:23:24

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412.00	16.8	≥ 0.5	Pass
6	2437.00	16.8	≥ 0.5	Pass
11	2462.00	16.8	≥ 0.5	Pass

Channel 1



Date: 26.MAY.2011 14:25:57

Channel 6

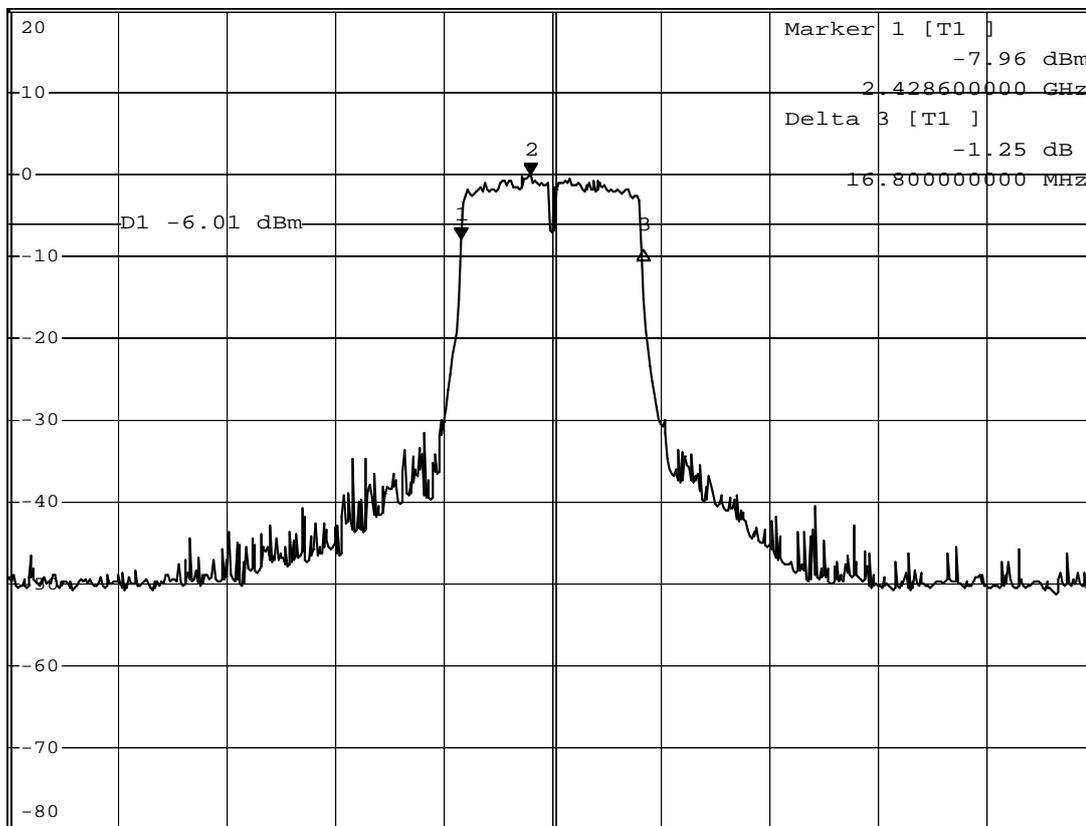


MARKER 2
2.435 GHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -0.01 dBm
*SWT 200 ms 2.435000000 GHz

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 14:27:37

Channel 11



CENTER FREQUENCY
2.462 GHz

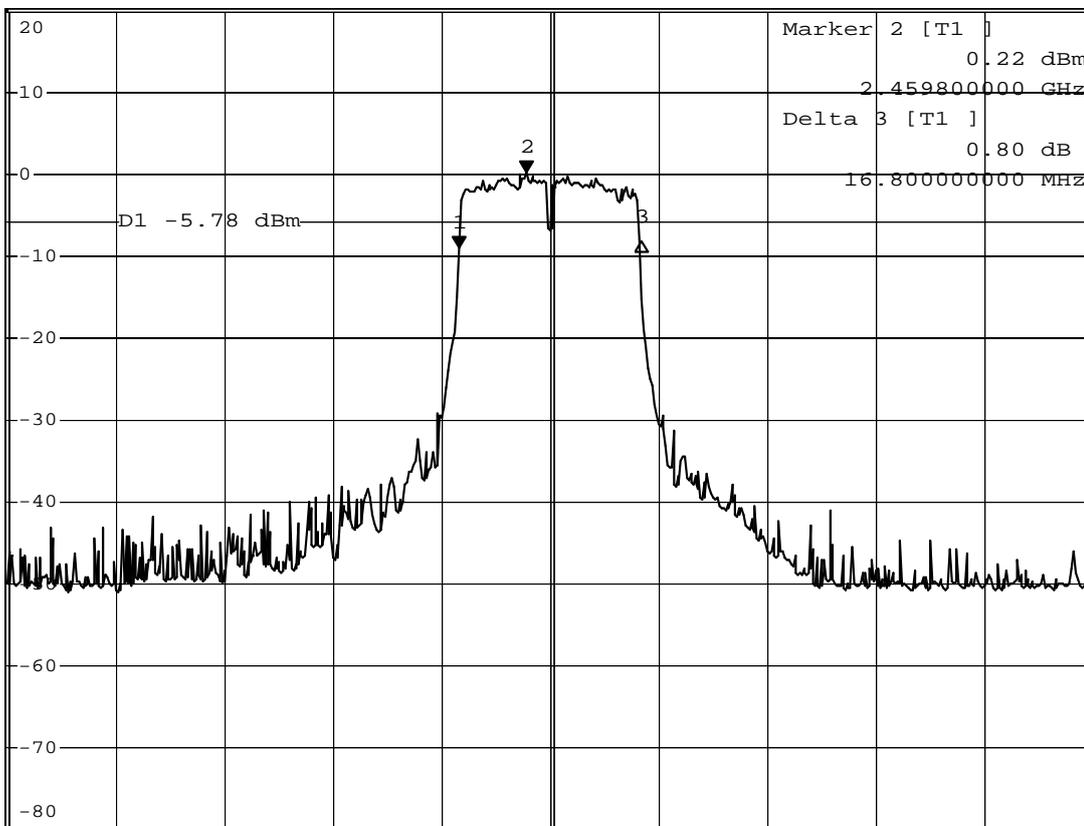
Ref 20 dBm *Att 30 dB

*RBW 100 kHz Marker 1 [T1]

*VBW 100 kHz -9.00 dBm

*SWT 200 ms 2.453600000 GHz

1 PK
VIEW



Center 2.462 GHz

10 MHz/

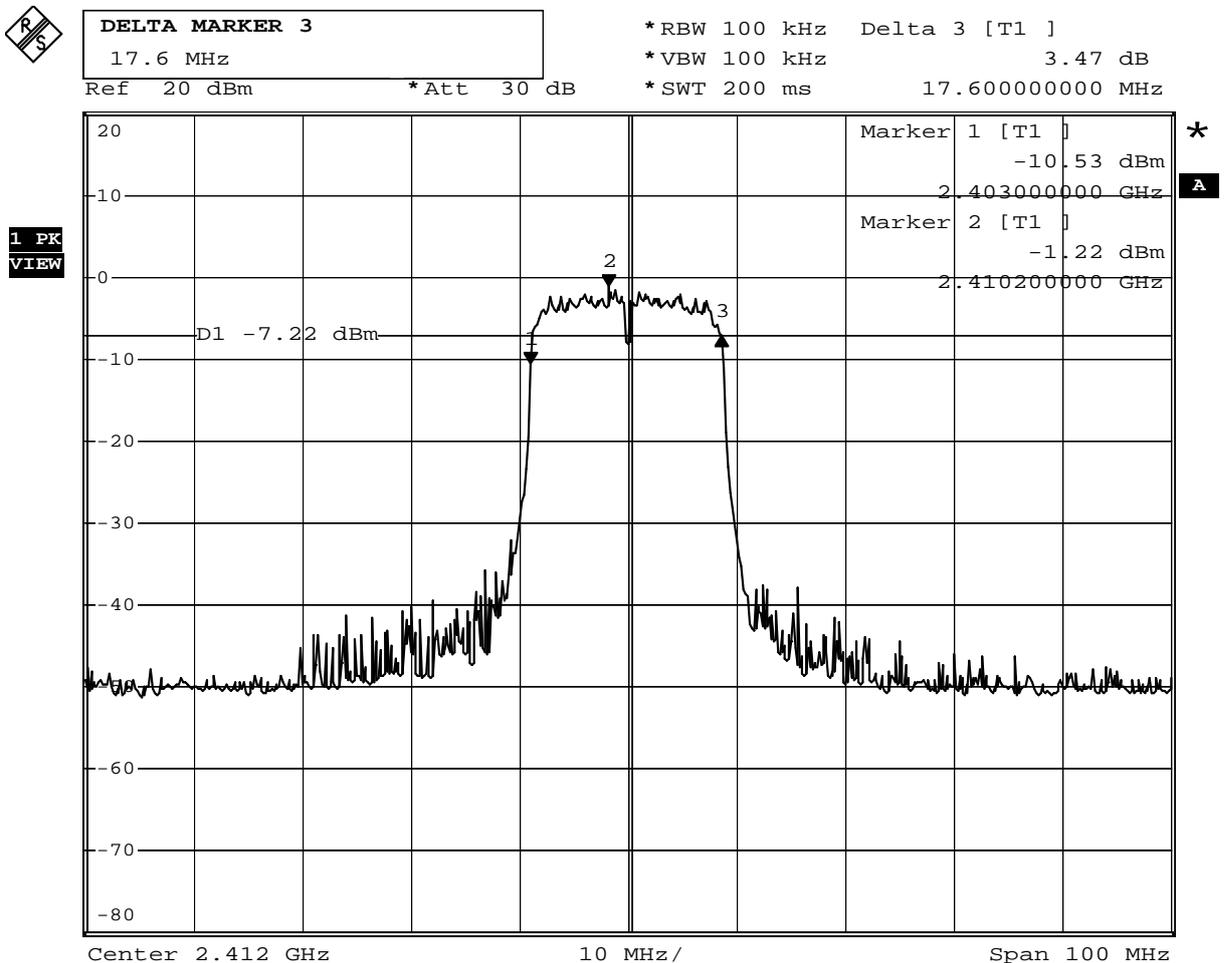
Span 100 MHz

Date: 26.MAY.2011 14:29:11

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz)(ANT A)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412.00	17.6	≥ 0.5	Pass
6	2437.00	18.0	≥ 0.5	Pass
11	2462.00	18.0	≥ 0.5	Pass

Channel 1



Date: 26.MAY.2011 14:42:12

Channel 6

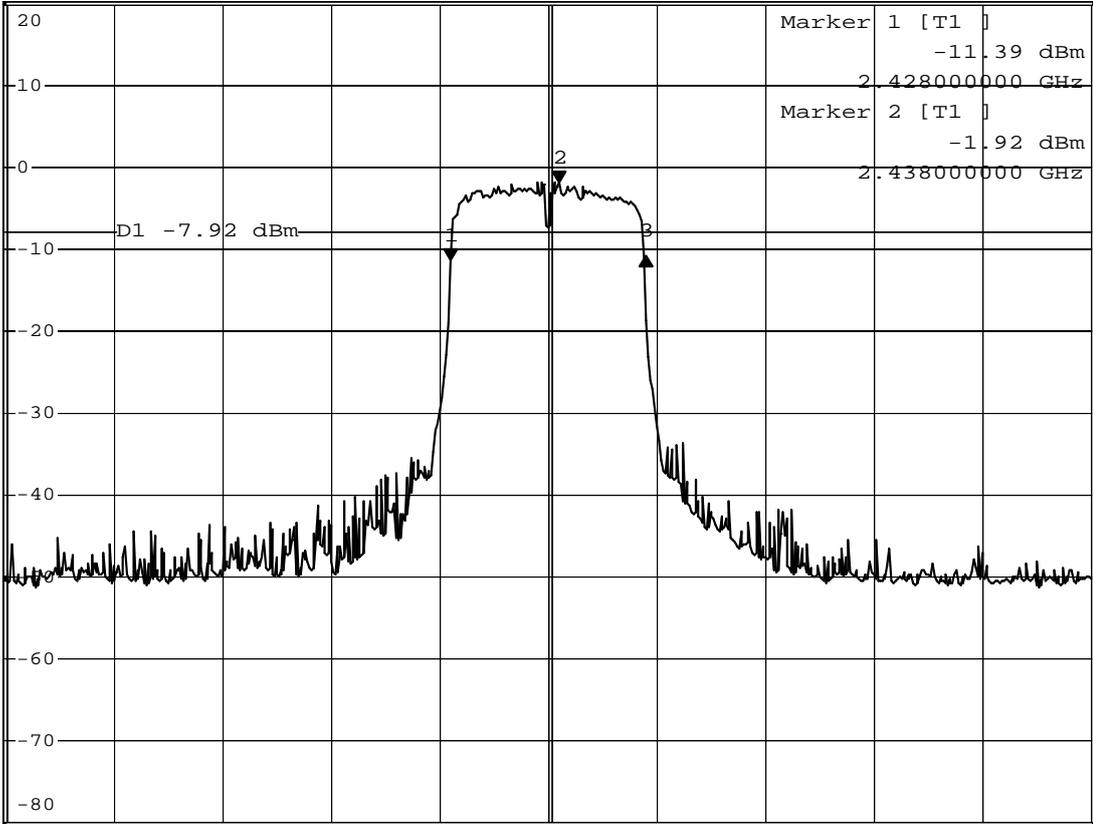


DELTA MARKER 3
18 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 0.55 dB
*SWT 200 ms 18.00000000 MHz

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 14:43:48

Channel 11

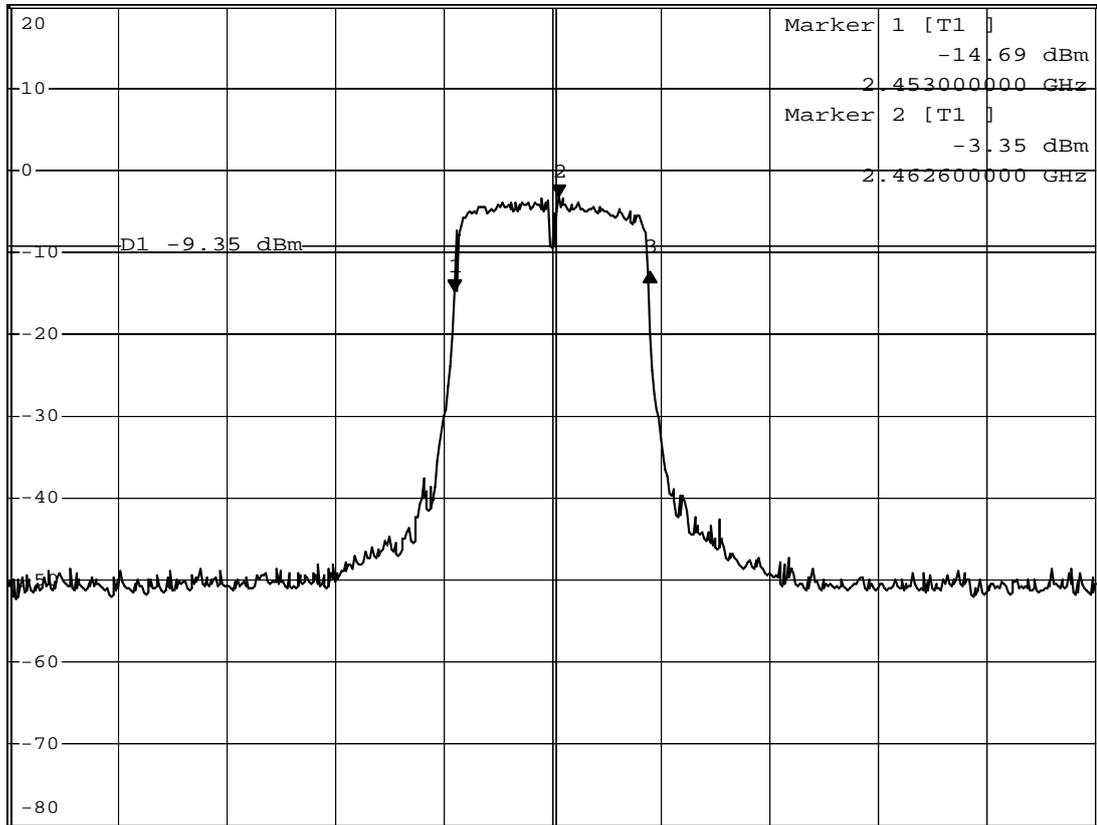


DELTA MARKER 3
18 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 2.37 dB
*SWT 100 ms 18.00000000 MHz

1 PK
VIEW



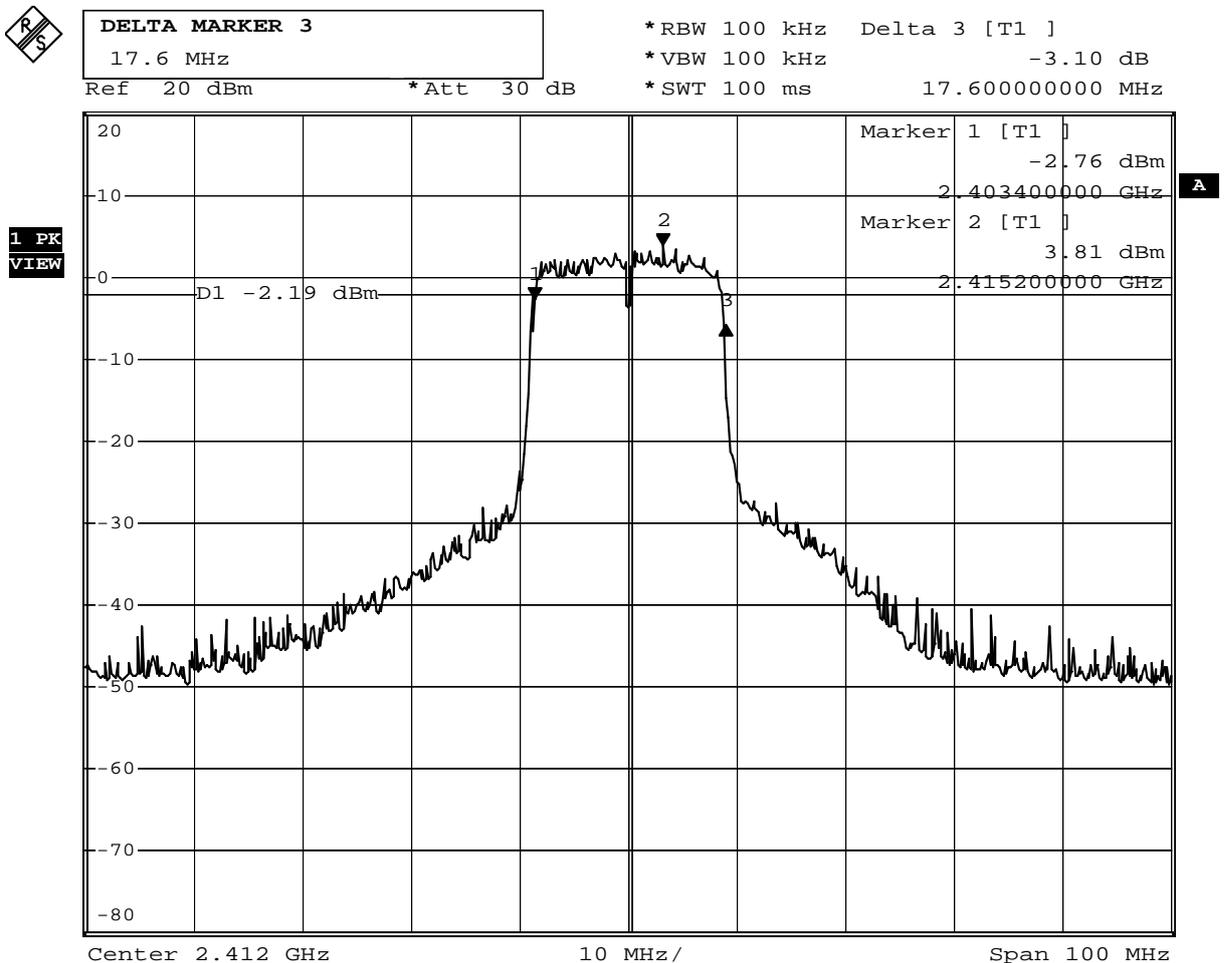
Center 2.462 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 17:16:39

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (20MHz)(ANT B)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412.00	17.6	≥ 0.5	Pass
6	2437.00	18.0	≥ 0.5	Pass
11	2462.00	17.6	≥ 0.5	Pass

Channel 1



Date: 26.MAY.2011 17:21:12

Channel 6

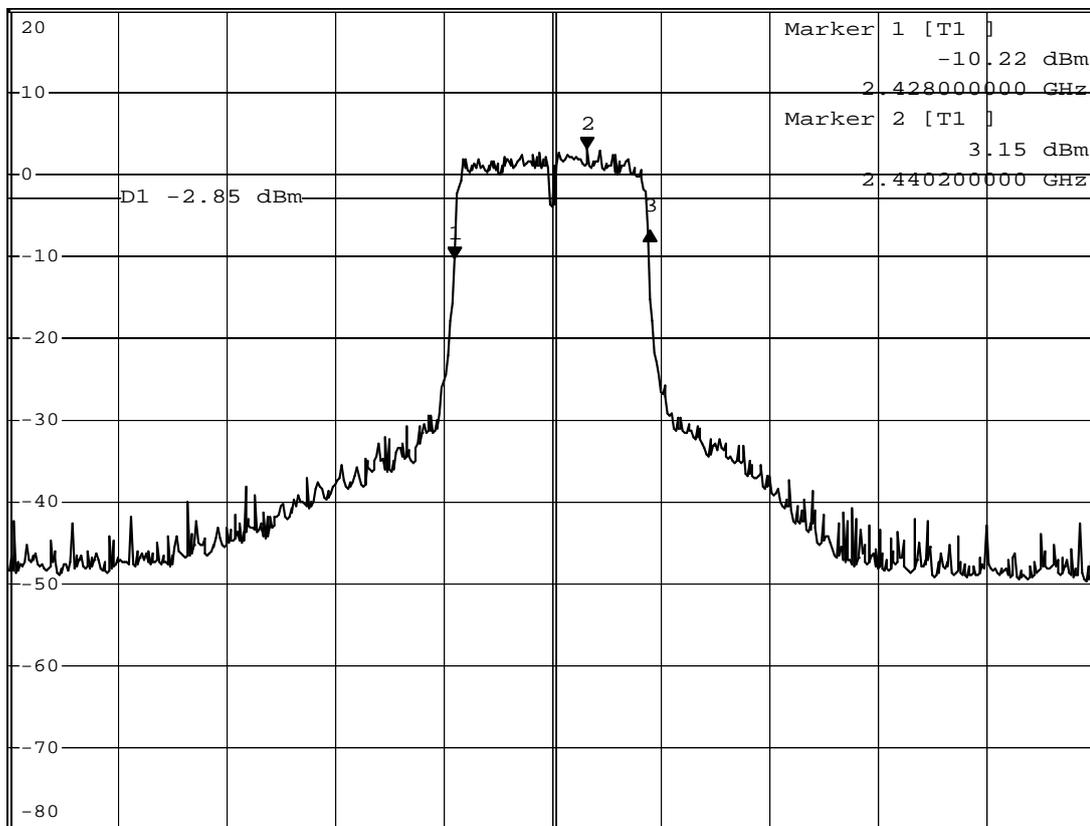


DELTA MARKER 3
18 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 3.25 dB
*SWT 100 ms 18.00000000 MHz

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 17:26:46

Channel 11

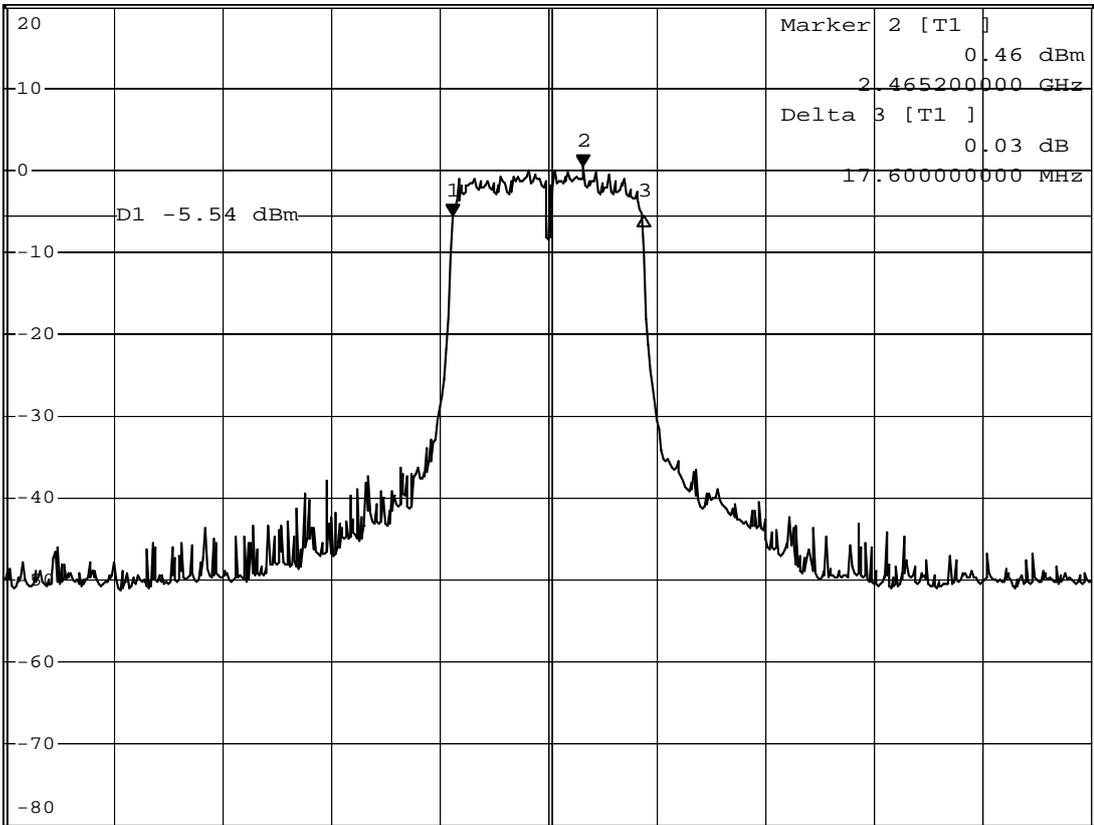


MARKER 1
2.4532 GHz

*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -5.67 dBm
*SWT 200 ms 2.453200000 GHz

Ref 20 dBm *Att 30 dB

1 PK
VIEW



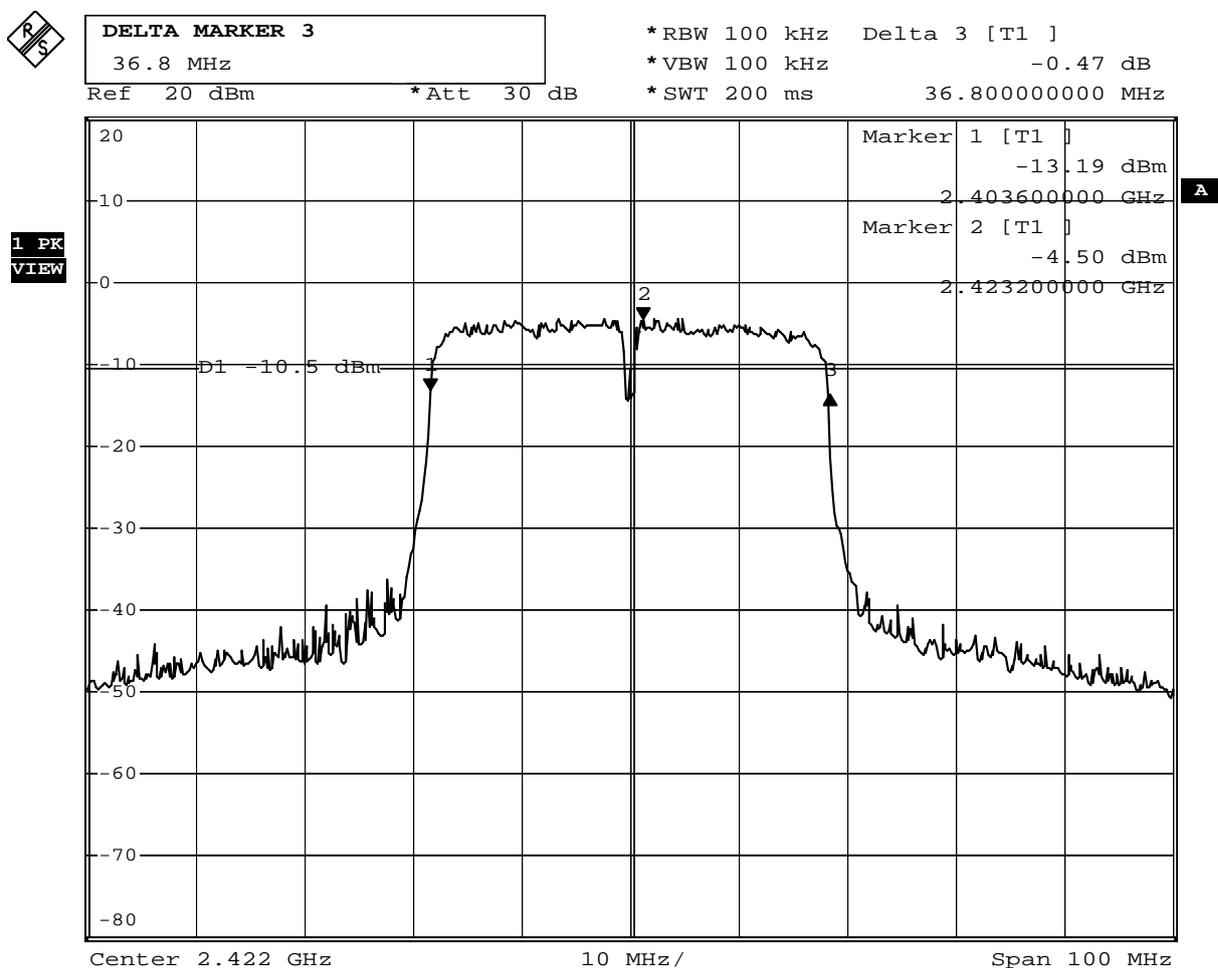
Center 2.462 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 14:49:13

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz)(ANT A)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.8	≥ 0.5	Pass
6	2437	36.6	≥ 0.5	Pass
9	2452	35.6	≥ 0.5	Pass

Channel 3



Date: 26.MAY.2011 15:10:09

Channel 6

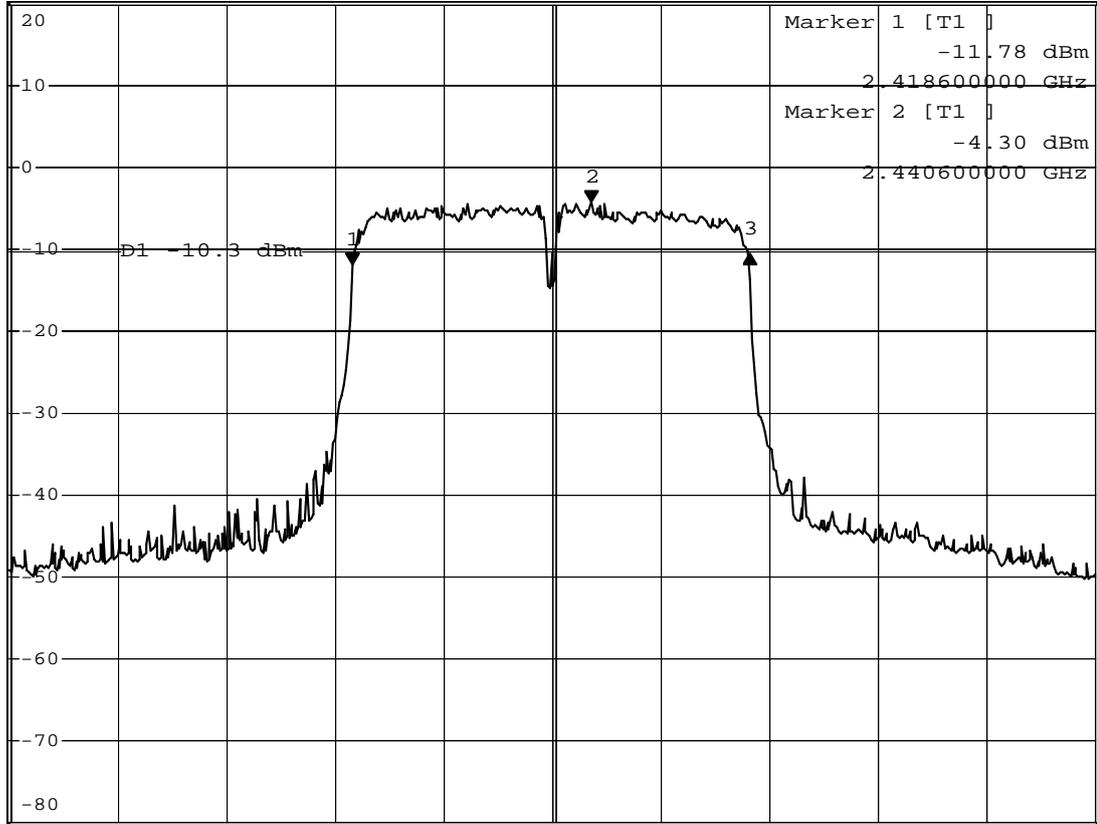


DELTA MARKER 3
36.6 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 1.24 dB
*SWT 200 ms 36.60000000 MHz

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 15:08:53

Channel 9

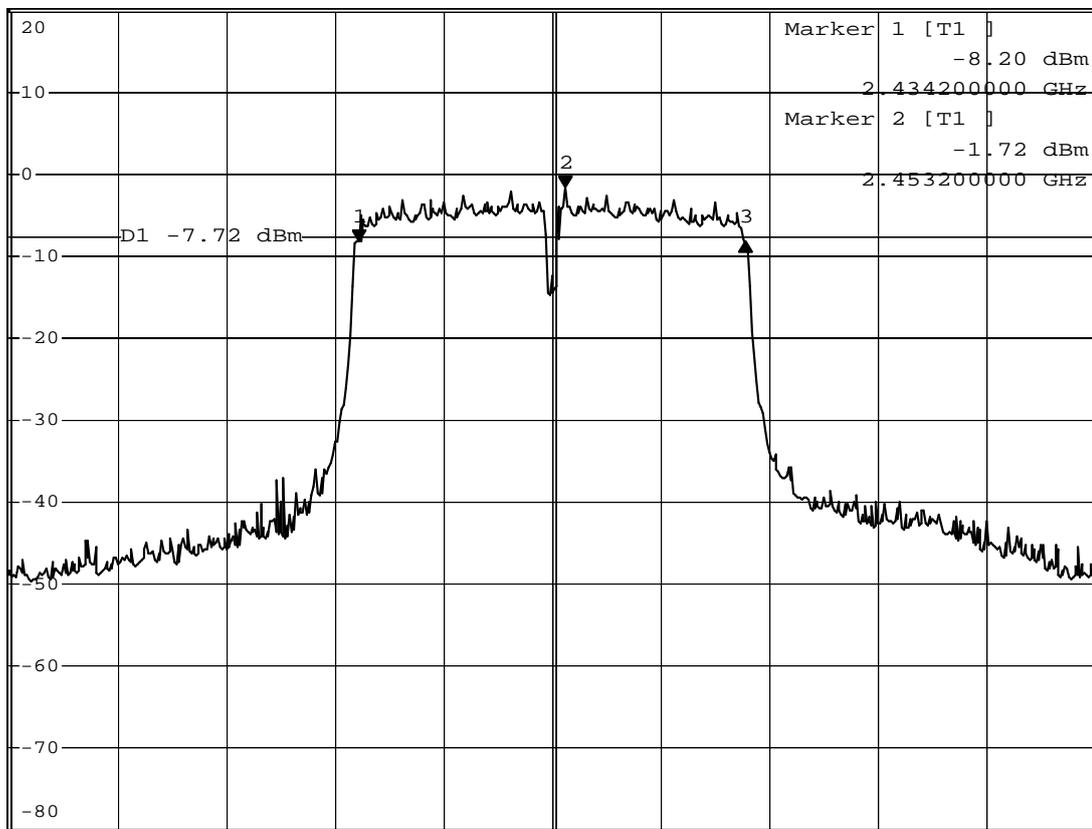


DELTA MARKER 3
35.6 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.05 dB
*SWT 200 ms 35.60000000 MHz

1 PK
VIEW



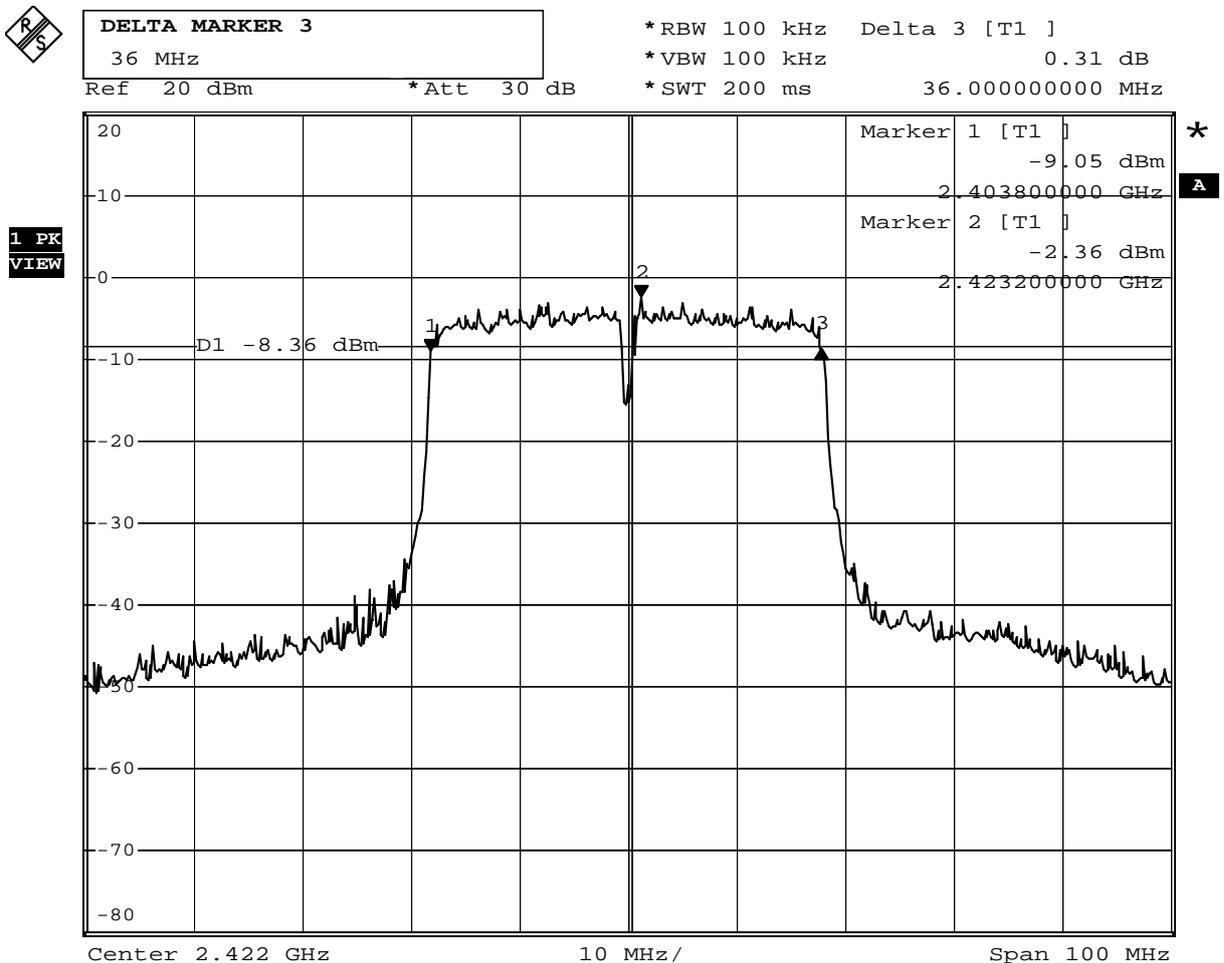
Center 2.452 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 15:19:06

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n (40MHz)(ANT B)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.0	≥ 0.5	Pass
6	2437	35.6	≥ 0.5	Pass
9	2452	36.0	≥ 0.5	Pass

Channel 3



Date: 26.MAY.2011 15:05:14

Channel 6

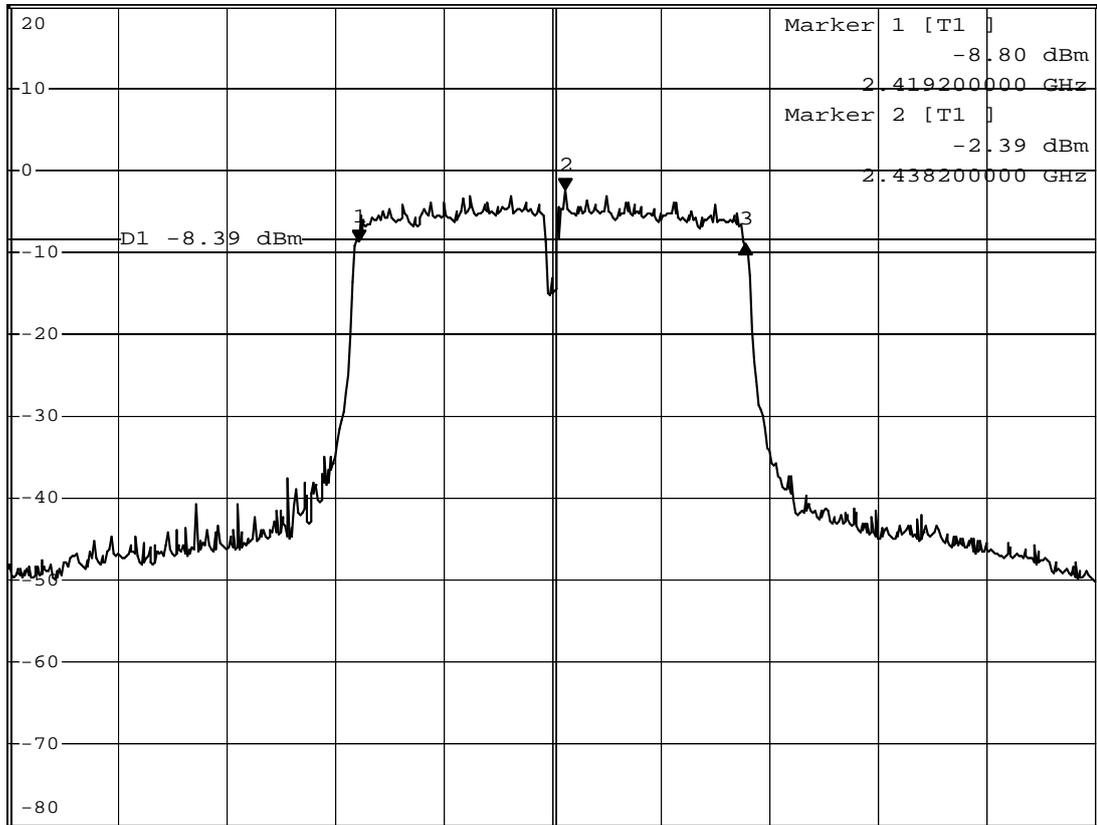


DELTA MARKER 3
35.6 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.20 dB
*SWT 200 ms 35.60000000 MHz

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

Date: 26.MAY.2011 15:02:12

Channel 9

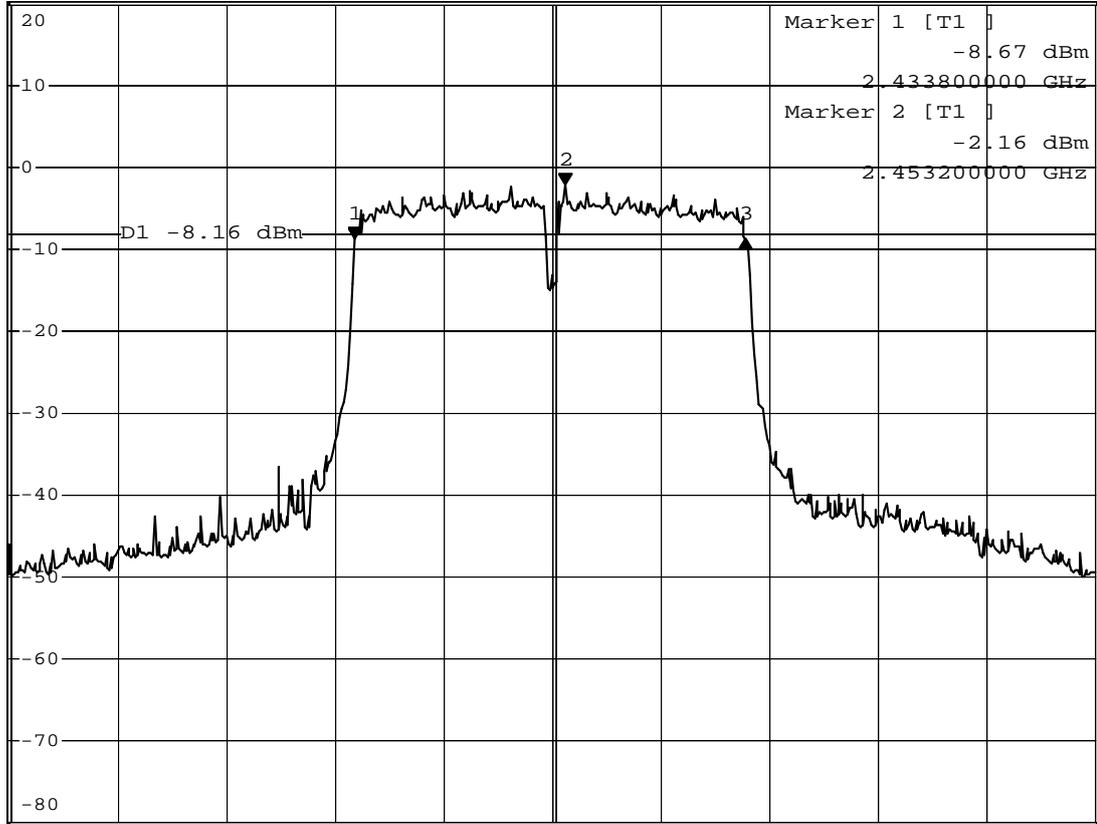


DELTA MARKER 3
36 MHz

Ref 20 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.02 dB
*SWT 200 ms 36.00000000 MHz

1 PK
VIEW



Center 2.452 GHz 10 MHz/ Span 100 MHz

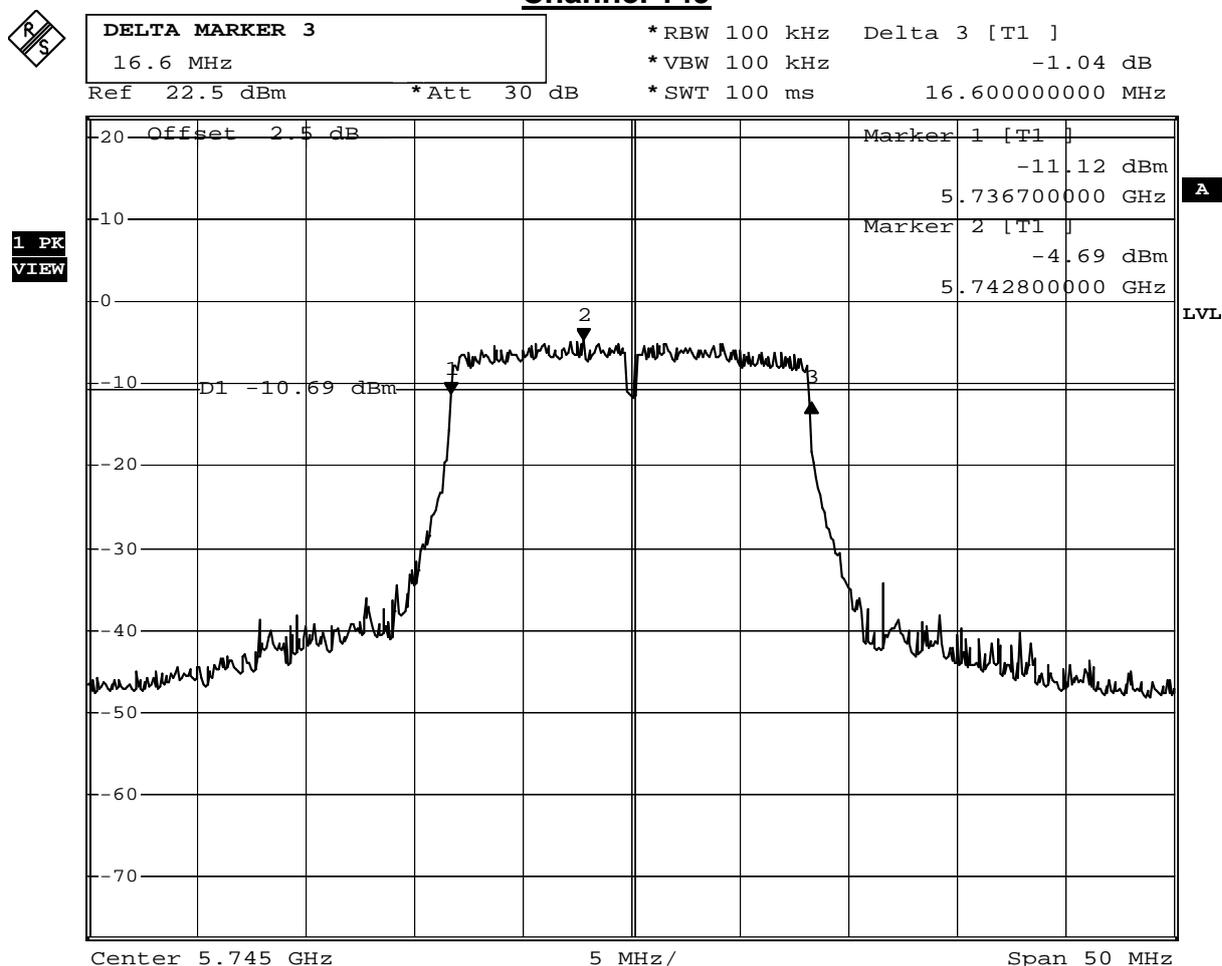
Date: 26.MAY.2011 15:01:03

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

802.11 a

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.6	≥ 0.5	Pass
157	5785	16.6	≥ 0.5	Pass
165	5825	16.6	≥ 0.5	Pass

Channel 149



Date: 16.JUN.2011 10:00:46

Channel 157

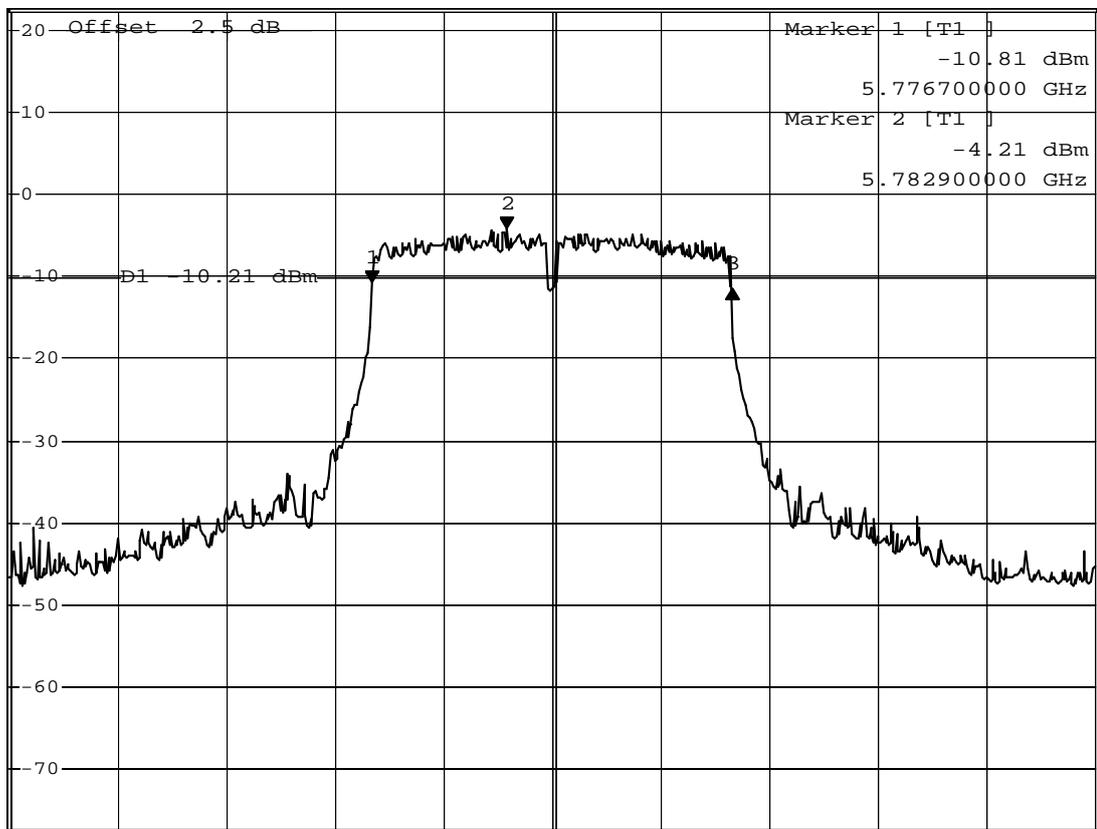


DELTA MARKER 3
16.6 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.78 dB
*SWT 100 ms 16.60000000 MHz

1 PK
VIEW



Center 5.785 GHz

5 MHz/

Span 50 MHz

Date: 16.JUN.2011 10:12:11

Channel 165

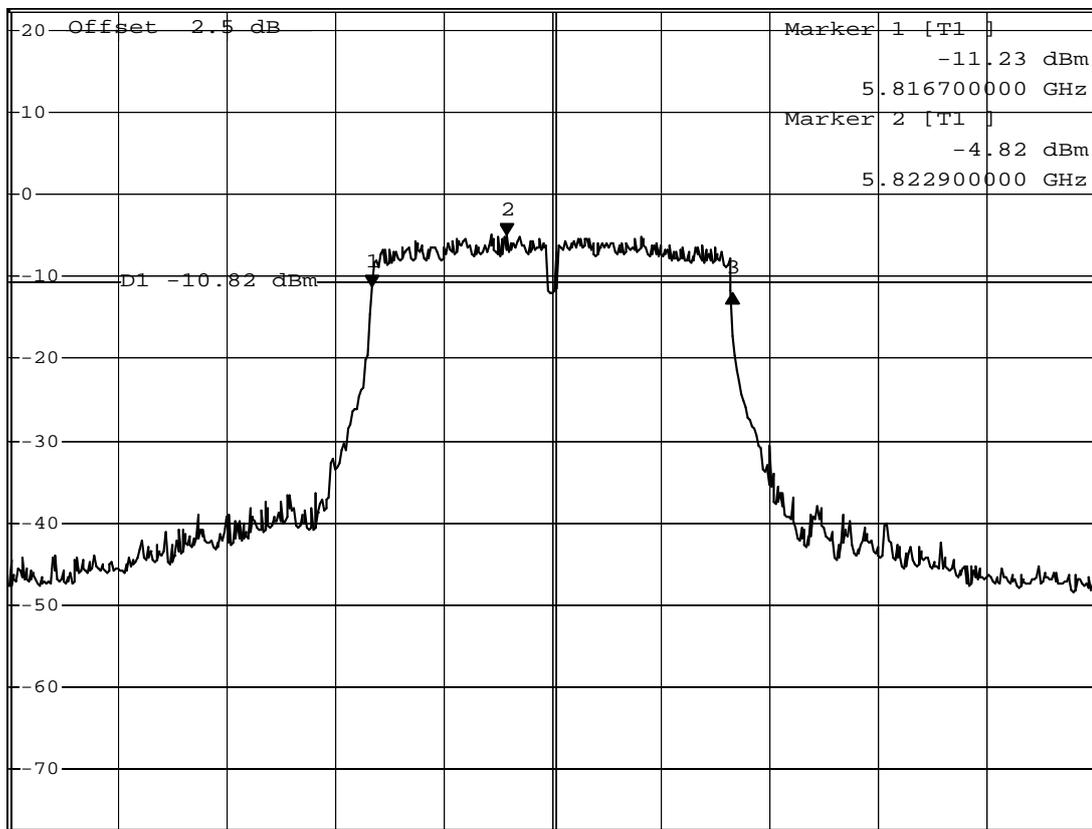


DELTA MARKER 3
16.6 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.79 dB
*SWT 100 ms 16.60000000 MHz

1 PK
VIEW



Center 5.825 GHz

5 MHz/

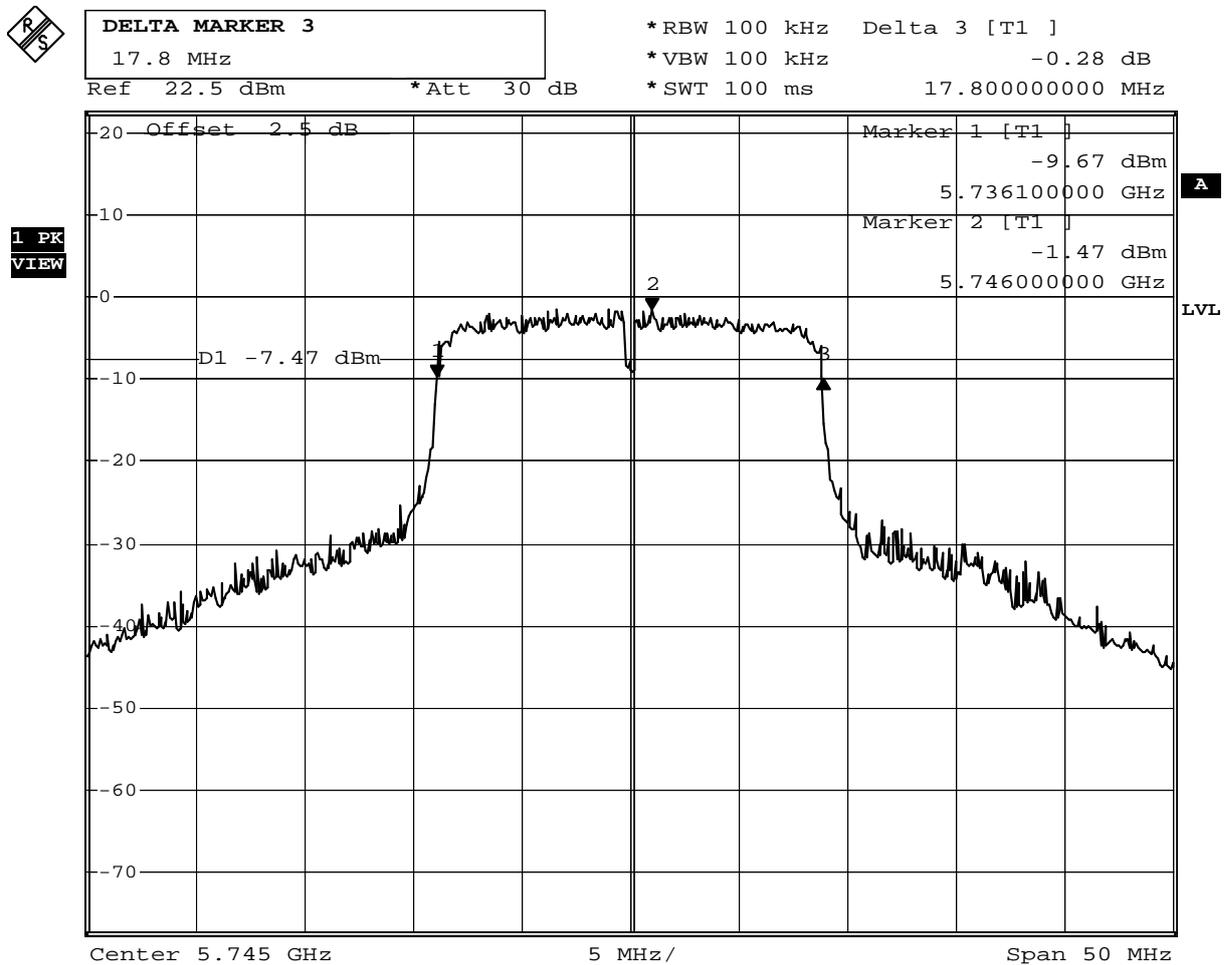
Span 50 MHz

Date: 16.JUN.2011 10:13:23

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n (20MHz)(ANT A)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.8	≥ 0.5	Pass
157	5785	17.8	≥ 0.5	Pass
165	5825	17.8	≥ 0.5	Pass

Channel 149



Date: 16.JUN.2011 10:19:10

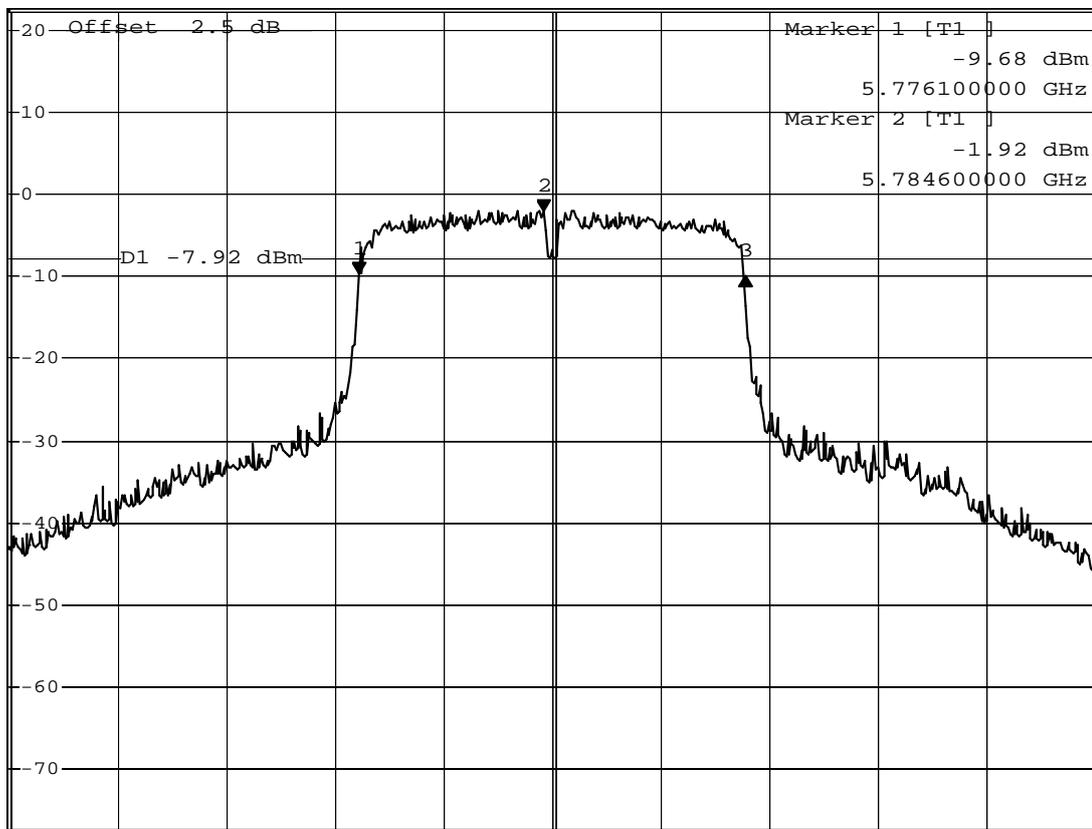
Channel 157



DELTA MARKER 3
17.8 MHz
Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.36 dB
*SWT 100 ms 17.80000000 MHz

1 PK
VIEW



Center 5.785 GHz 5 MHz/ Span 50 MHz

Date: 16.JUN.2011 10:21:18

Channel 165

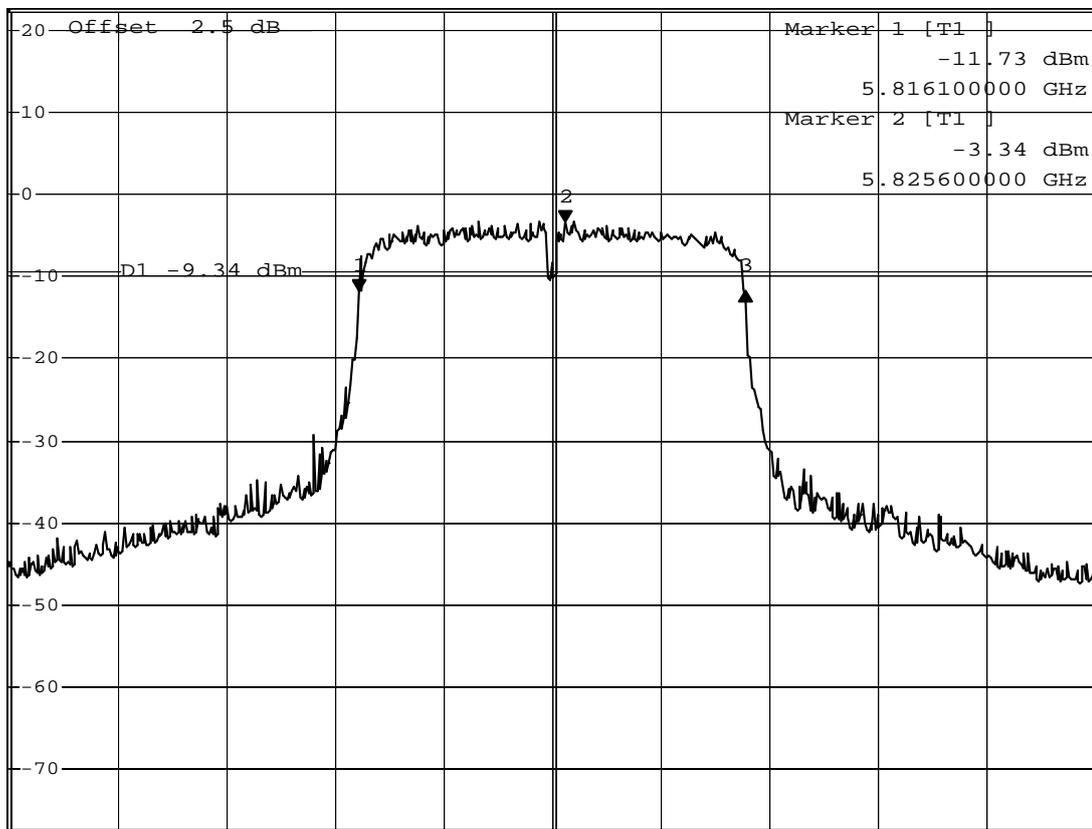


DELTA MARKER 3
17.8 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 0.02 dB
*SWT 100 ms 17.80000000 MHz

1 PK
VIEW



Center 5.825 GHz

5 MHz/

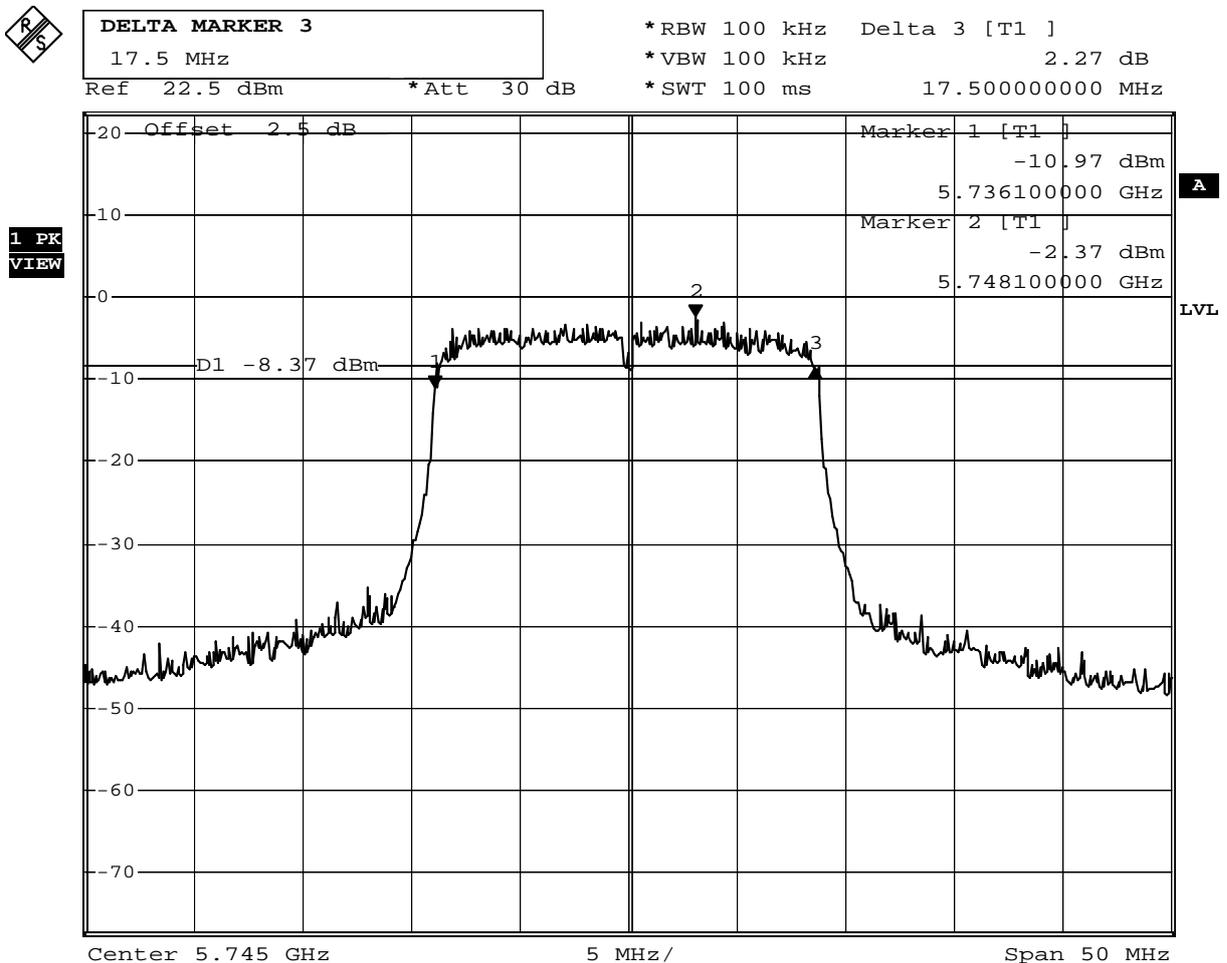
Span 50 MHz

Date: 16.JUN.2011 10:22:42

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n (20MHz)(ANT B)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.5	≥ 0.5	Pass
157	5785	17.8	≥ 0.5	Pass
165	5825	17.6	≥ 0.5	Pass

Channel 149



Date: 16.JUN.2011 10:30:33

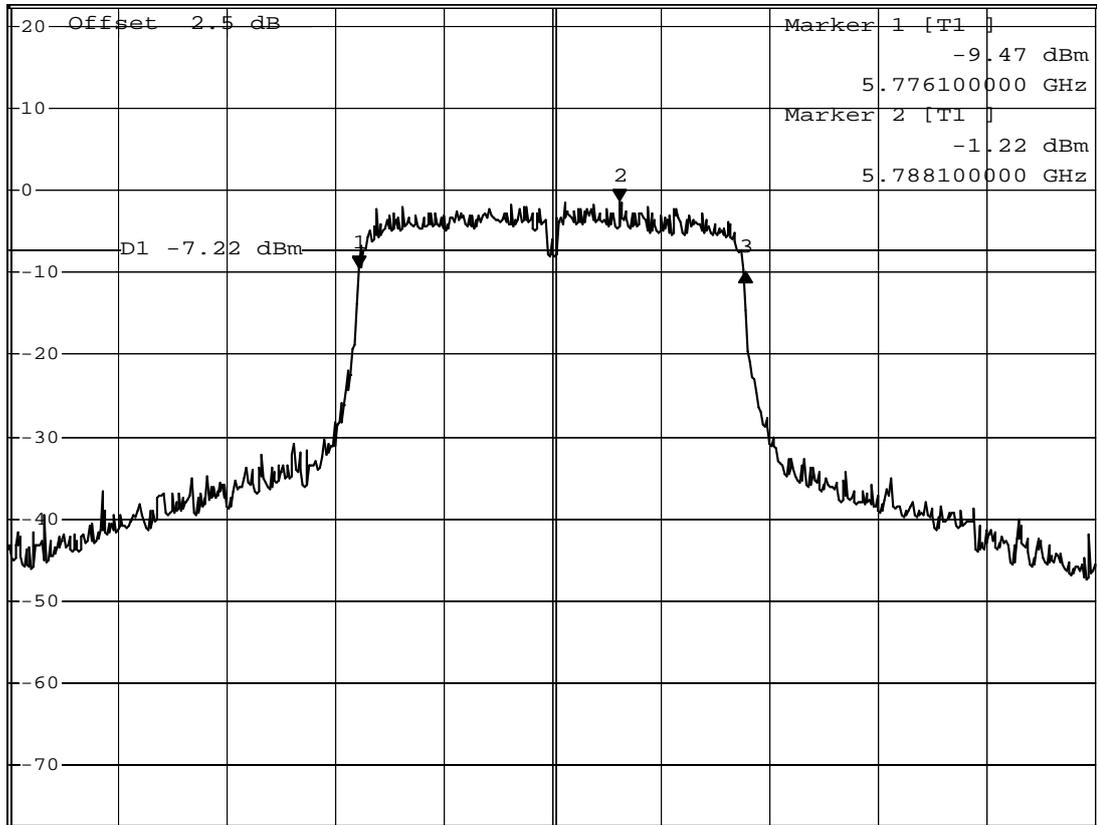
Channel 157



DELTA MARKER 3
17.8 MHz
Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -0.54 dB
*SWT 100 ms 17.80000000 MHz

1 PK
VIEW



Center 5.785 GHz 5 MHz/ Span 50 MHz

Date: 16.JUN.2011 10:31:35

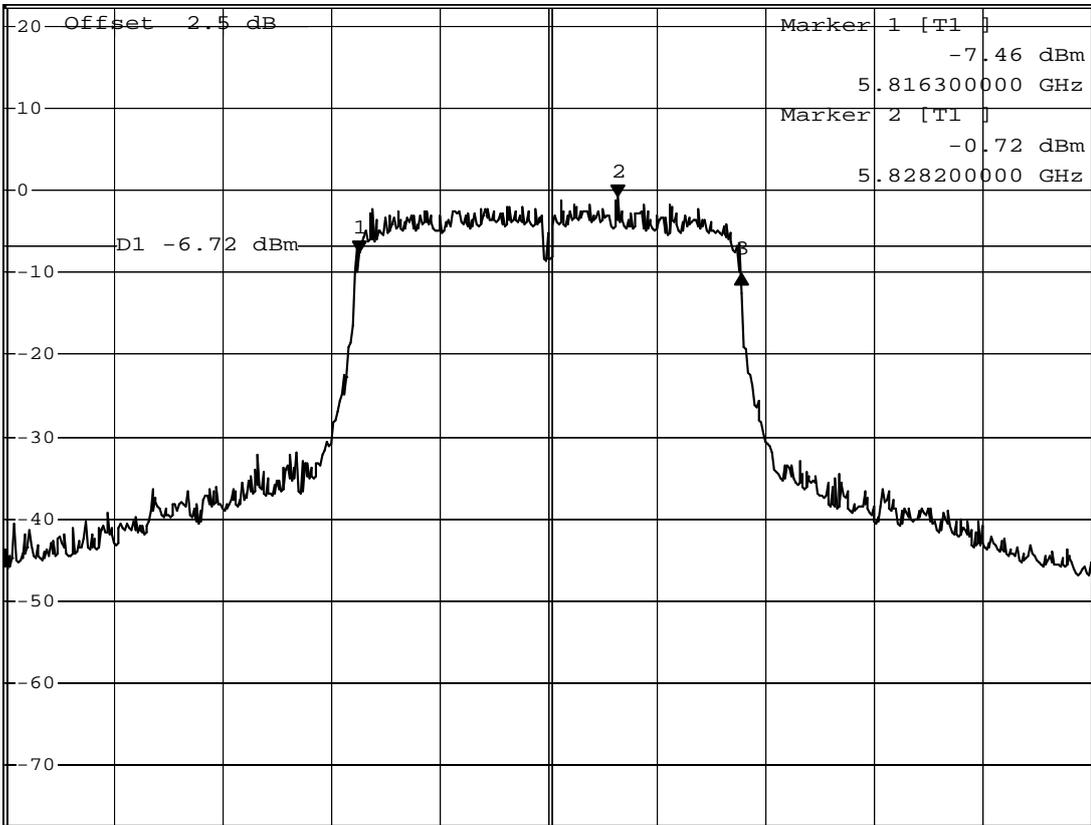
Channel 165



DELTA MARKER 3
17.6 MHz
Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz -2.61 dB
*SWT 100 ms 17.60000000 MHz

1 PK
VIEW



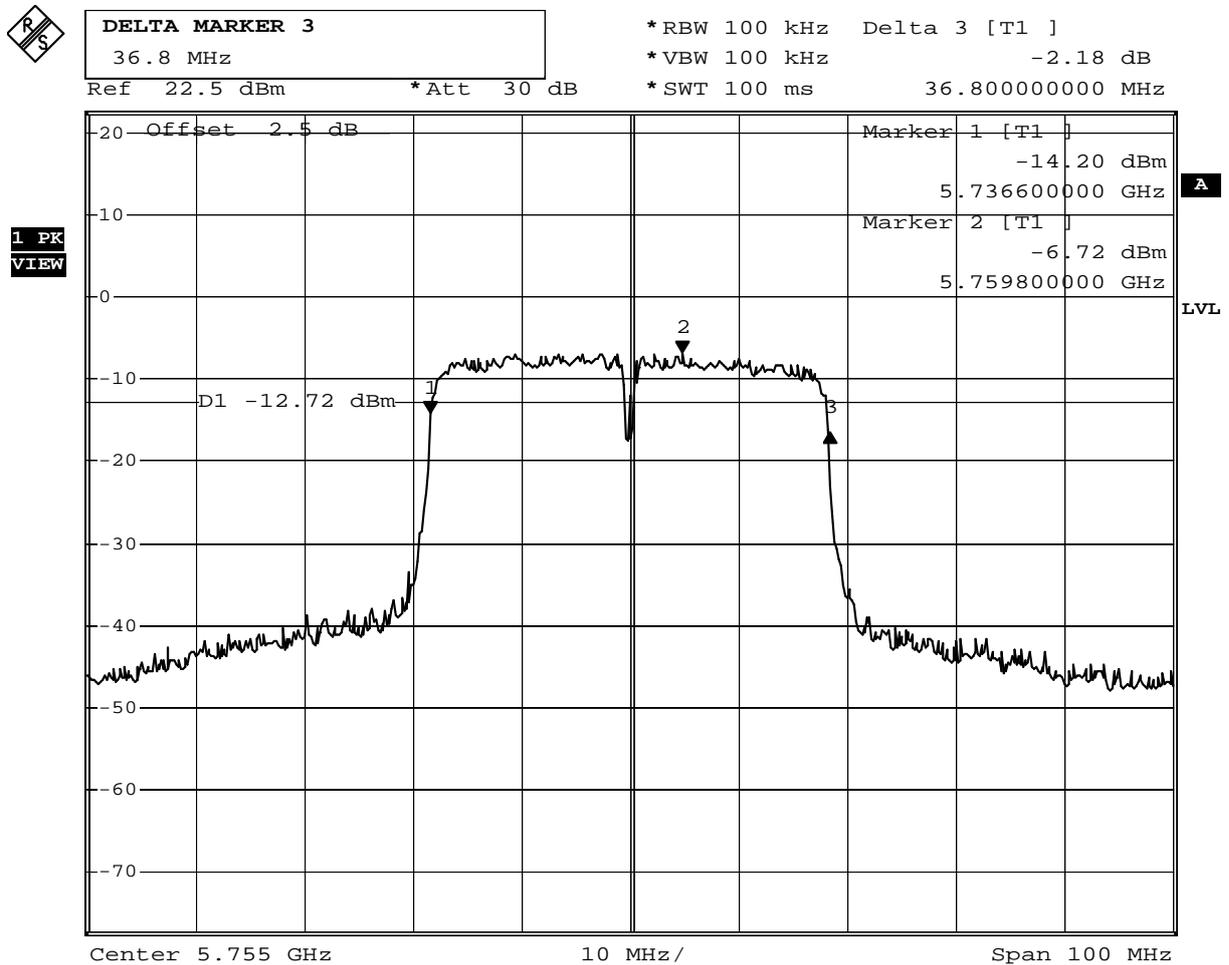
Center 5.825 GHz 5 MHz/ Span 50 MHz

Date: 16.JUN.2011 10:32:43

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n (40MHz)(ANT A)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.8	≥ 0.5	Pass
159	5795	36.8	≥ 0.5	Pass

Channel 151



Date: 16.JUN.2011 10:24:09

Channel 159

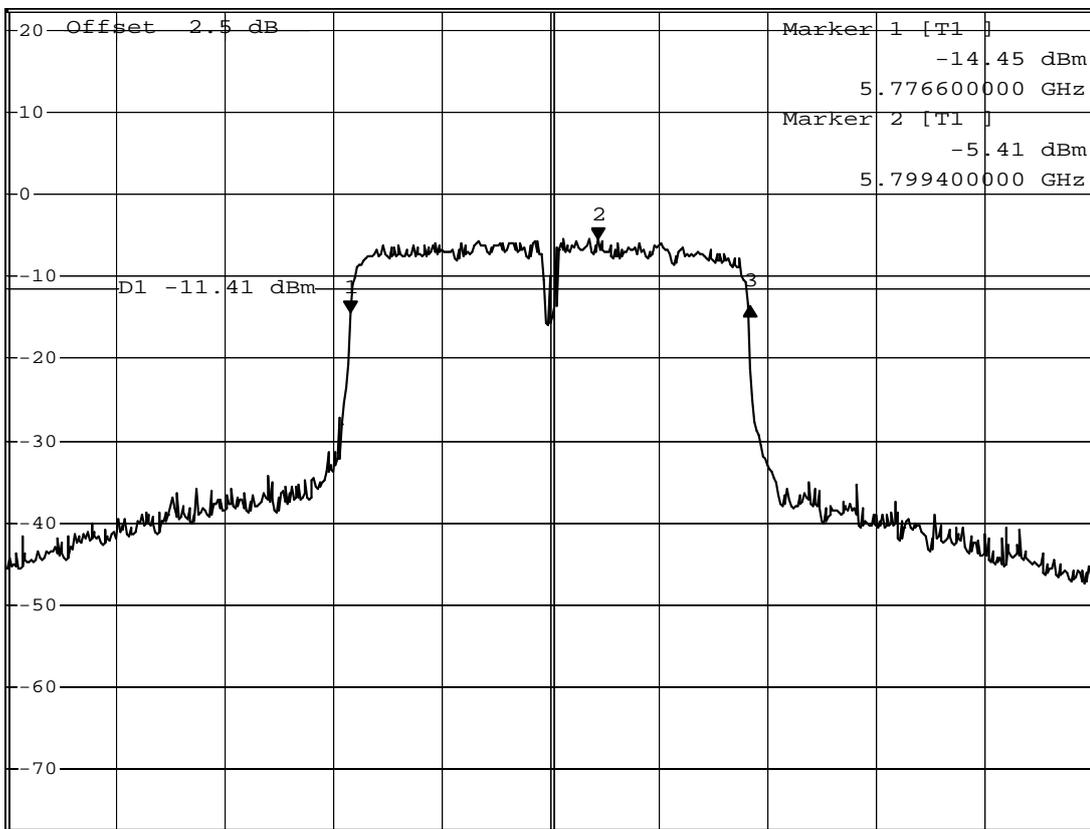


DELTA MARKER 3
36.8 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 0.82 dB
*SWT 100 ms 36.80000000 MHz

1 PK
VIEW



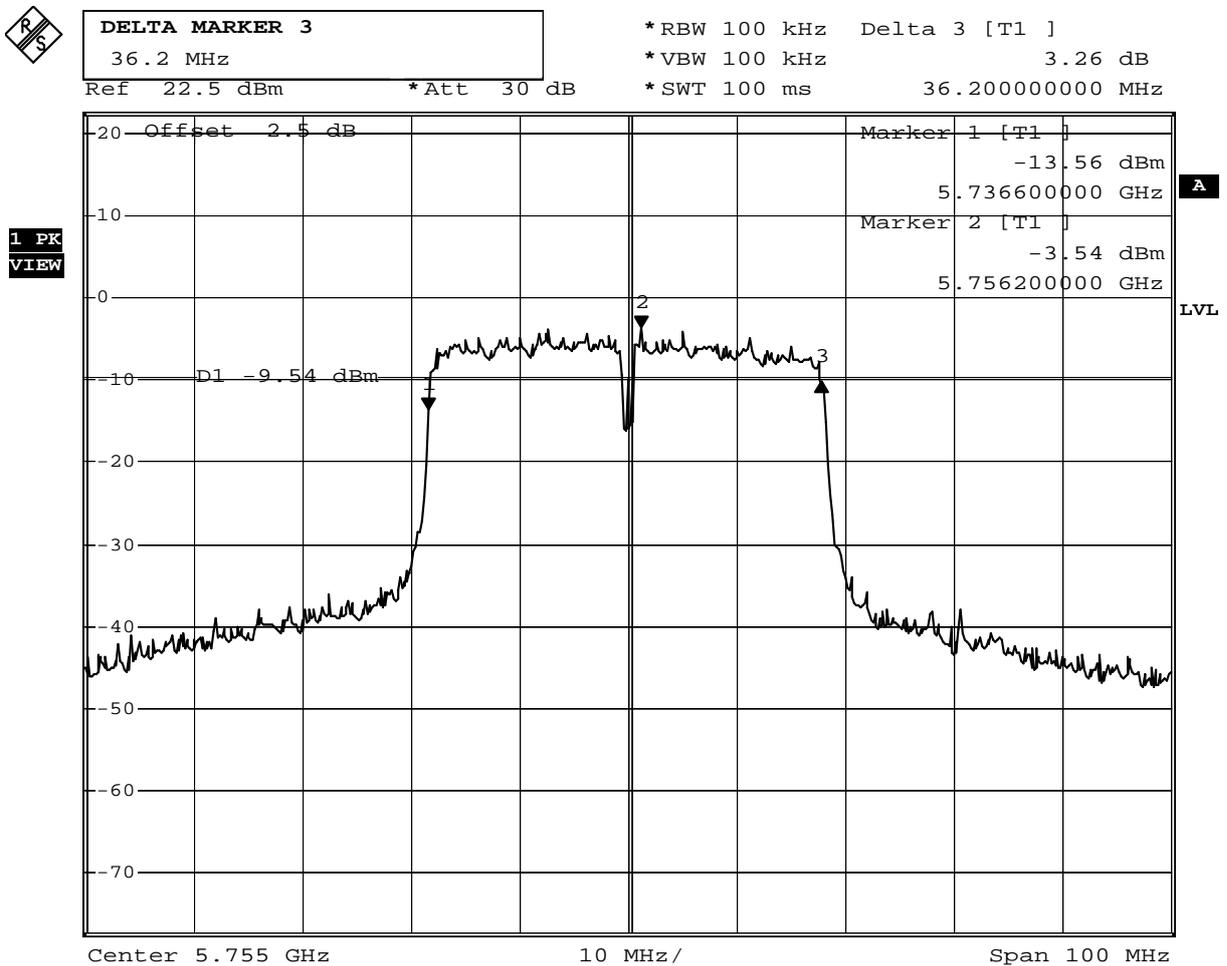
Center 5.795 GHz 10 MHz/ Span 100 MHz

Date: 16.JUN.2011 10:25:29

Product	Dual-band Wireless USB Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n (40MHz)(ANT B)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.2	≥ 0.5	Pass
159	5795	36.4	≥ 0.5	Pass

Channel 151



Date: 16.JUN.2011 10:28:56

Channel 159

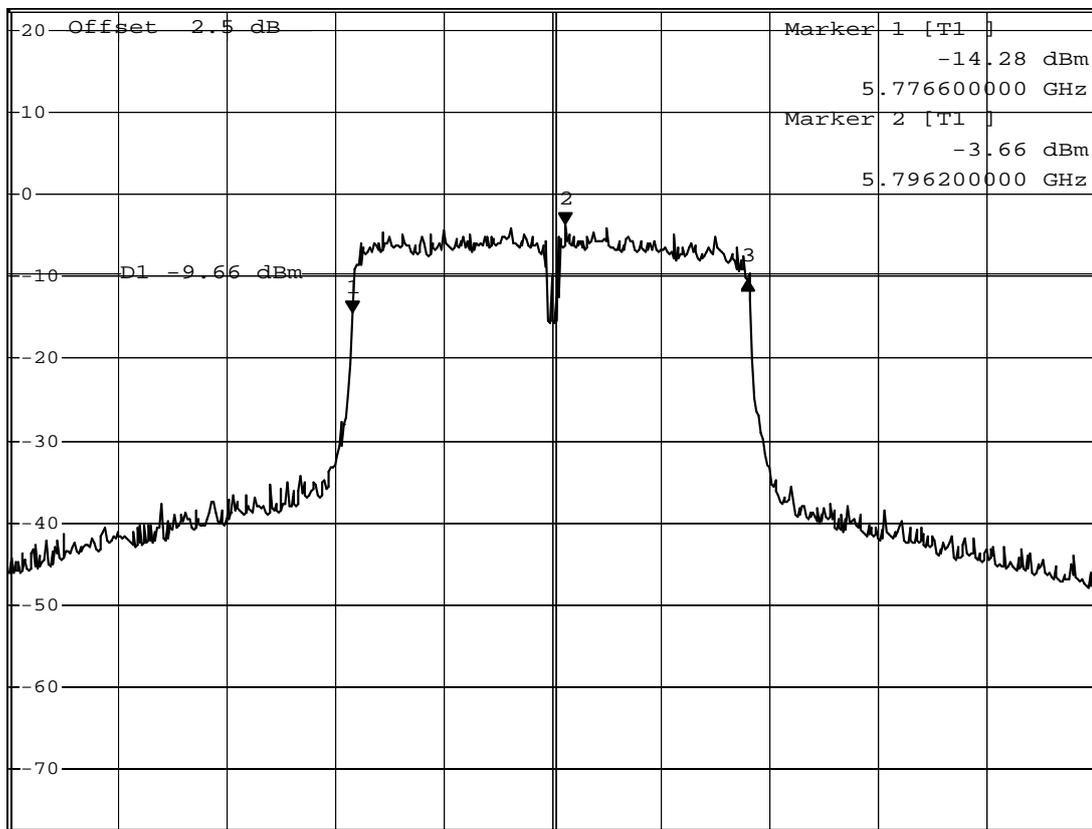


DELTA MARKER 3
36.4 MHz

Ref 22.5 dBm *Att 30 dB

*RBW 100 kHz Delta 3 [T1]
*VBW 100 kHz 3.96 dB
*SWT 100 ms 36.40000000 MHz

1 PK
VIEW



Center 5.795 GHz 10 MHz/ Span 100 MHz

Date: 16.JUN.2011 10:27:21

8. Power Density

8.1. Test Equipment

The following test equipment are used during the test:

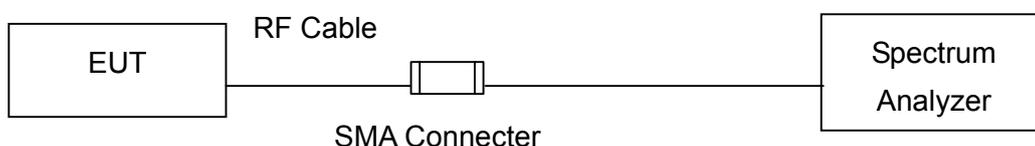
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/16

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: 2009; 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: 2010

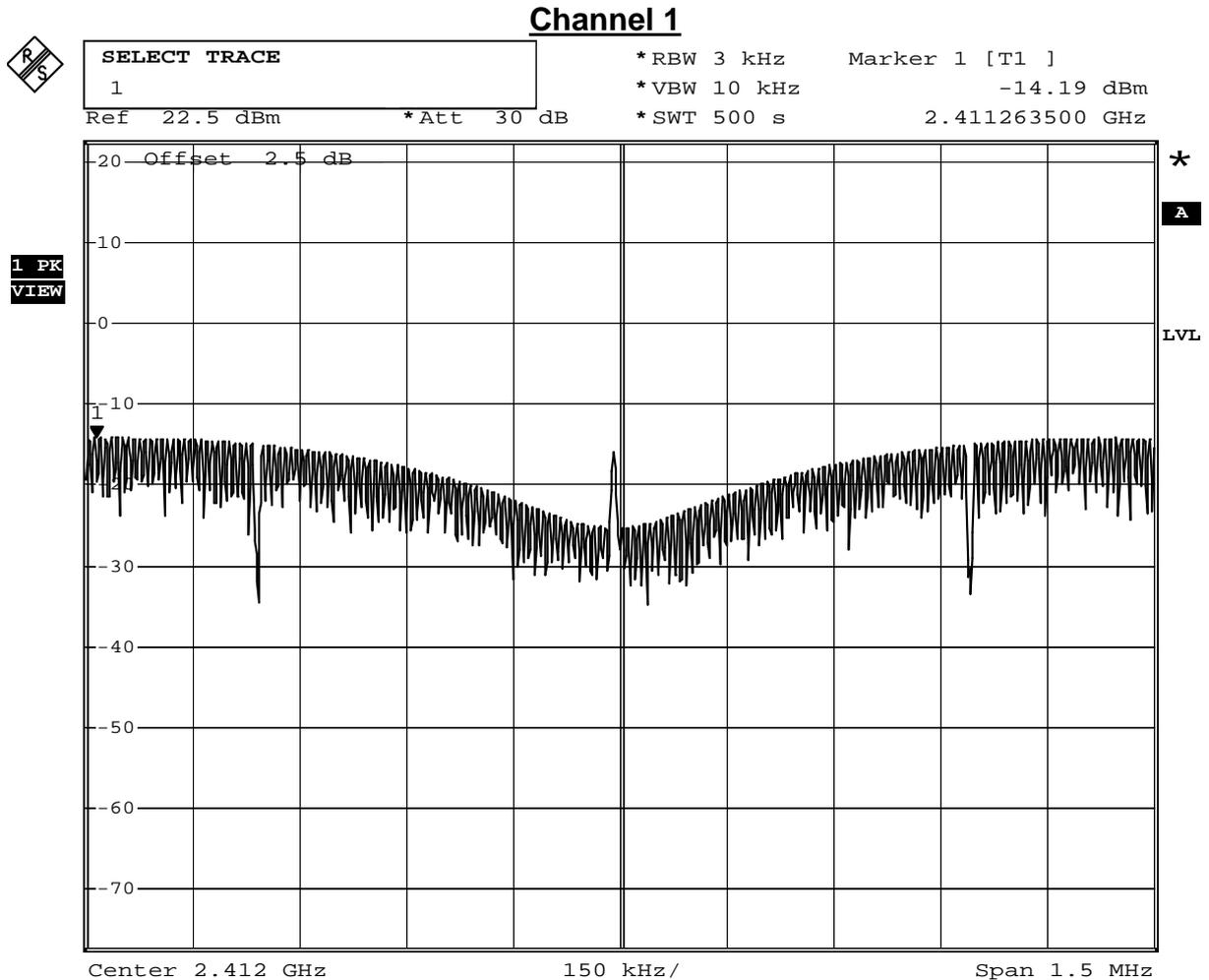
8.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-14.19	≤ 8	Pass
6	2437	-14.00	≤ 8	Pass
11	2462	-14.19	≤ 8	Pass



Date: 15.JUN.2011 19:18:06

Channel 6

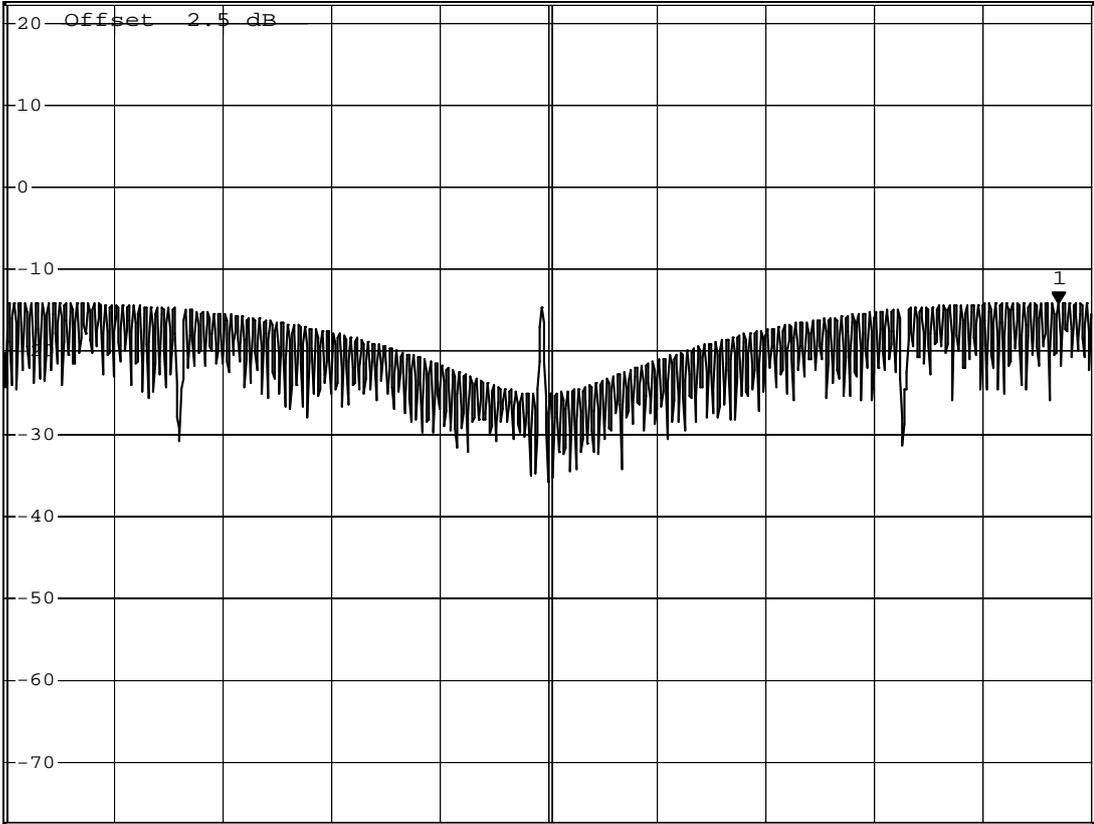


MARKER 1
2.437705 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -14.00 dBm
*SWT 500 s 2.437705000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:20:14

Channel 11

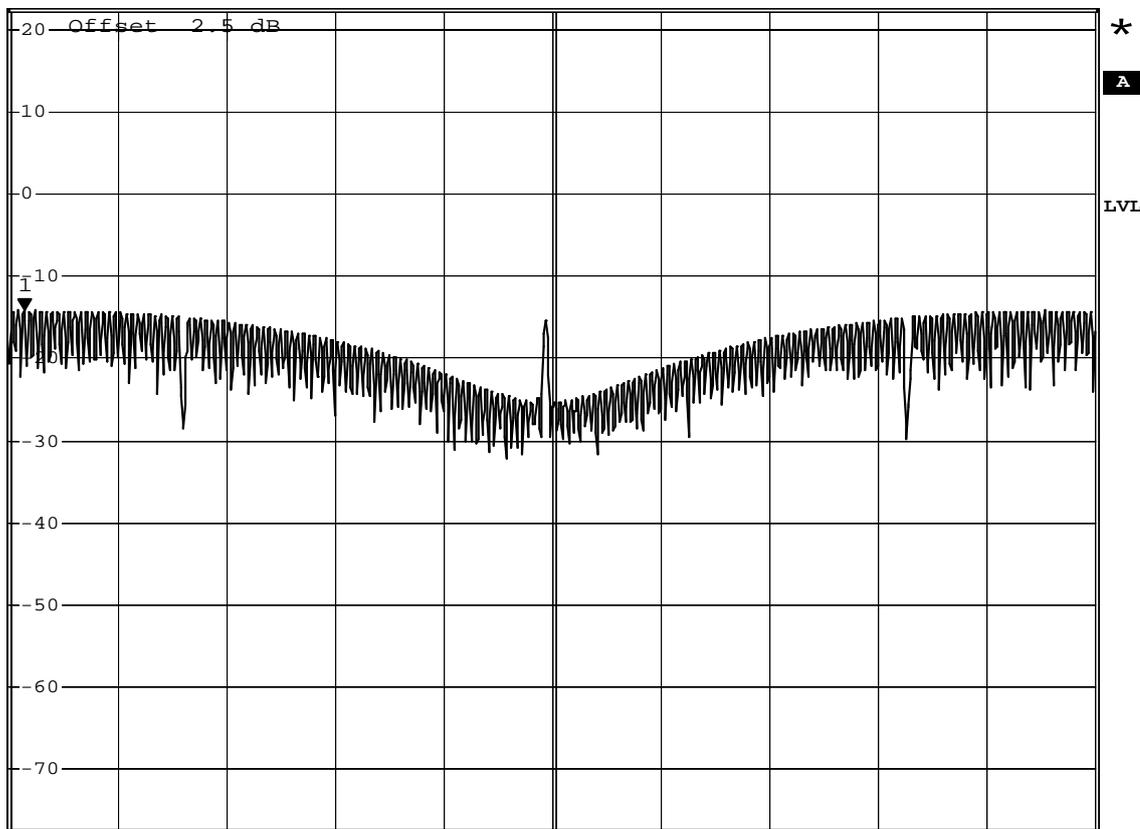


MARKER 1
2.461271 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -14.19 dBm
*SWT 500 s 2.461271000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



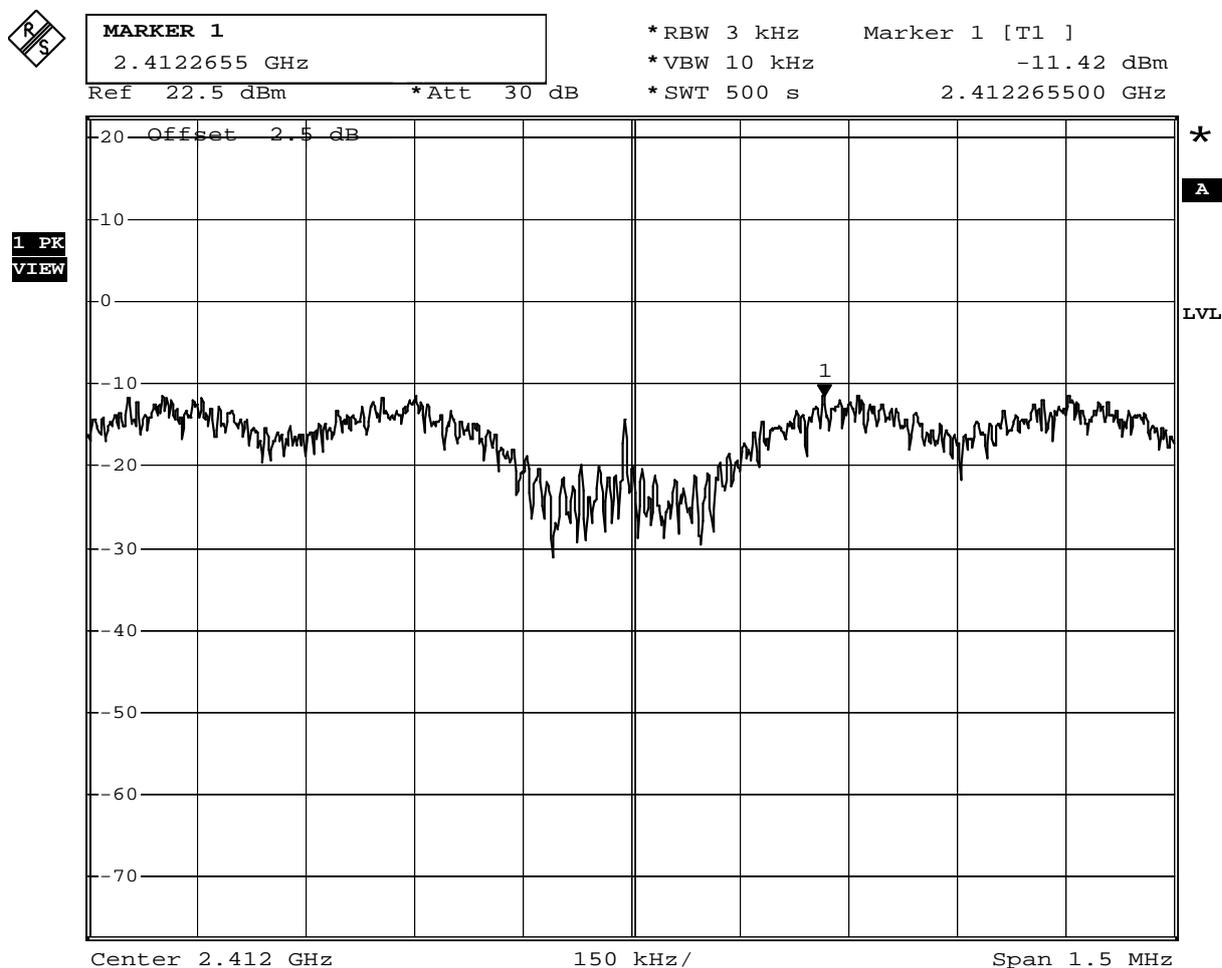
Center 2.462 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:21:24

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-11.42	≤ 8	Pass
6	2437	-13.65	≤ 8	Pass
11	2462	-15.02	≤ 8	Pass

Channel 1



Date: 15.JUN.2011 19:22:43

Channel 6

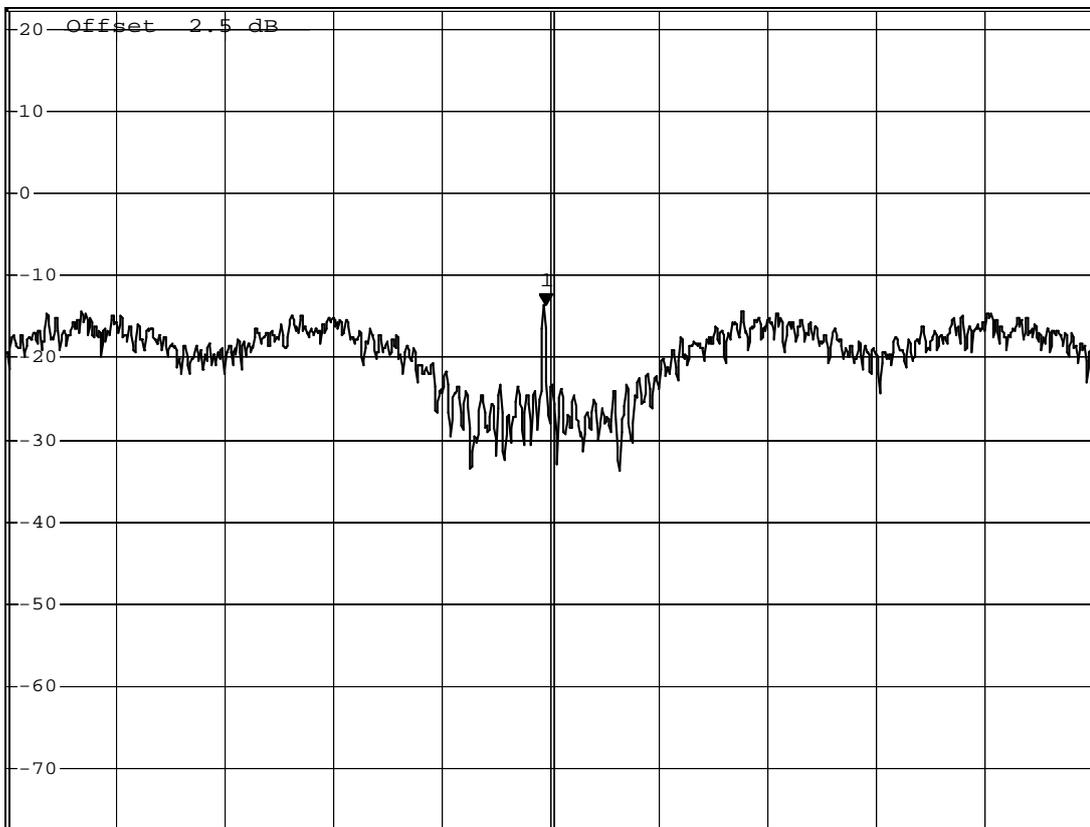


MARKER 1
2.4369925 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.65 dBm
*SWT 500 s 2.436992500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:24:01

Channel 11

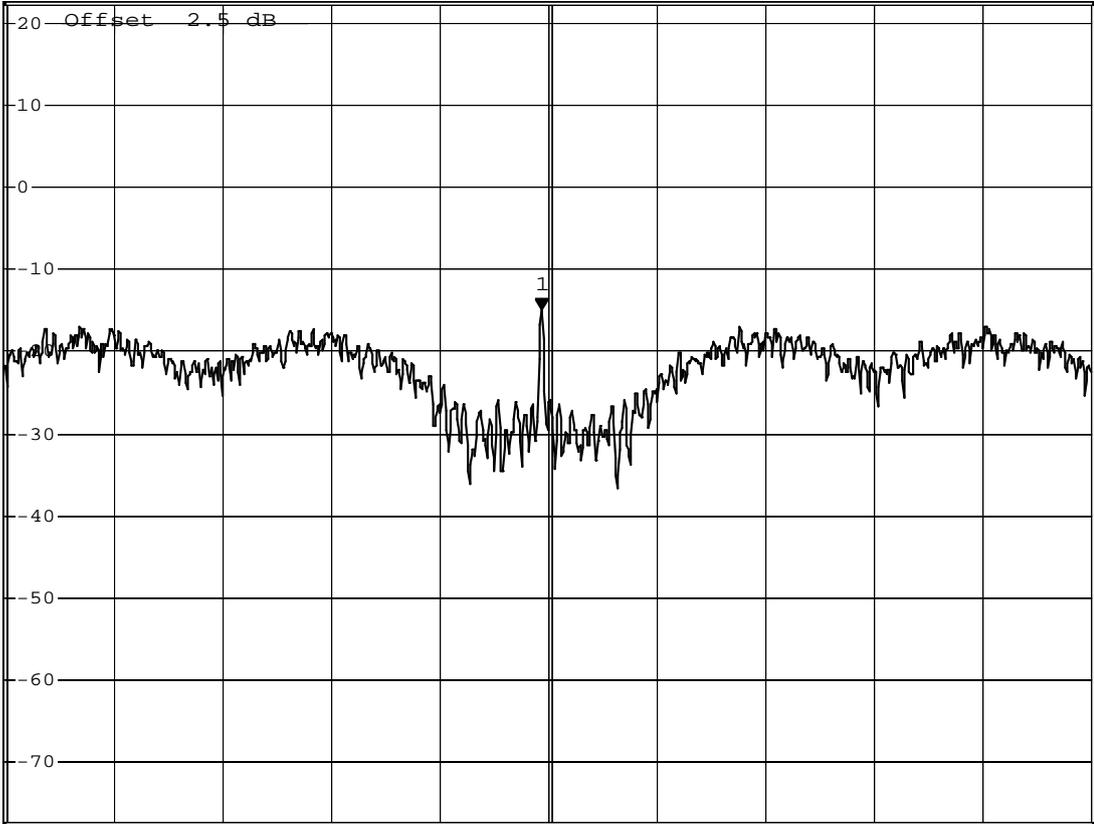


MARKER 1
2.461991 GHz

Ref 22.5 dBm *Att 30 dB

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.02 dBm
*SWT 500 s 2.461991000 GHz

1 PK
VIEW



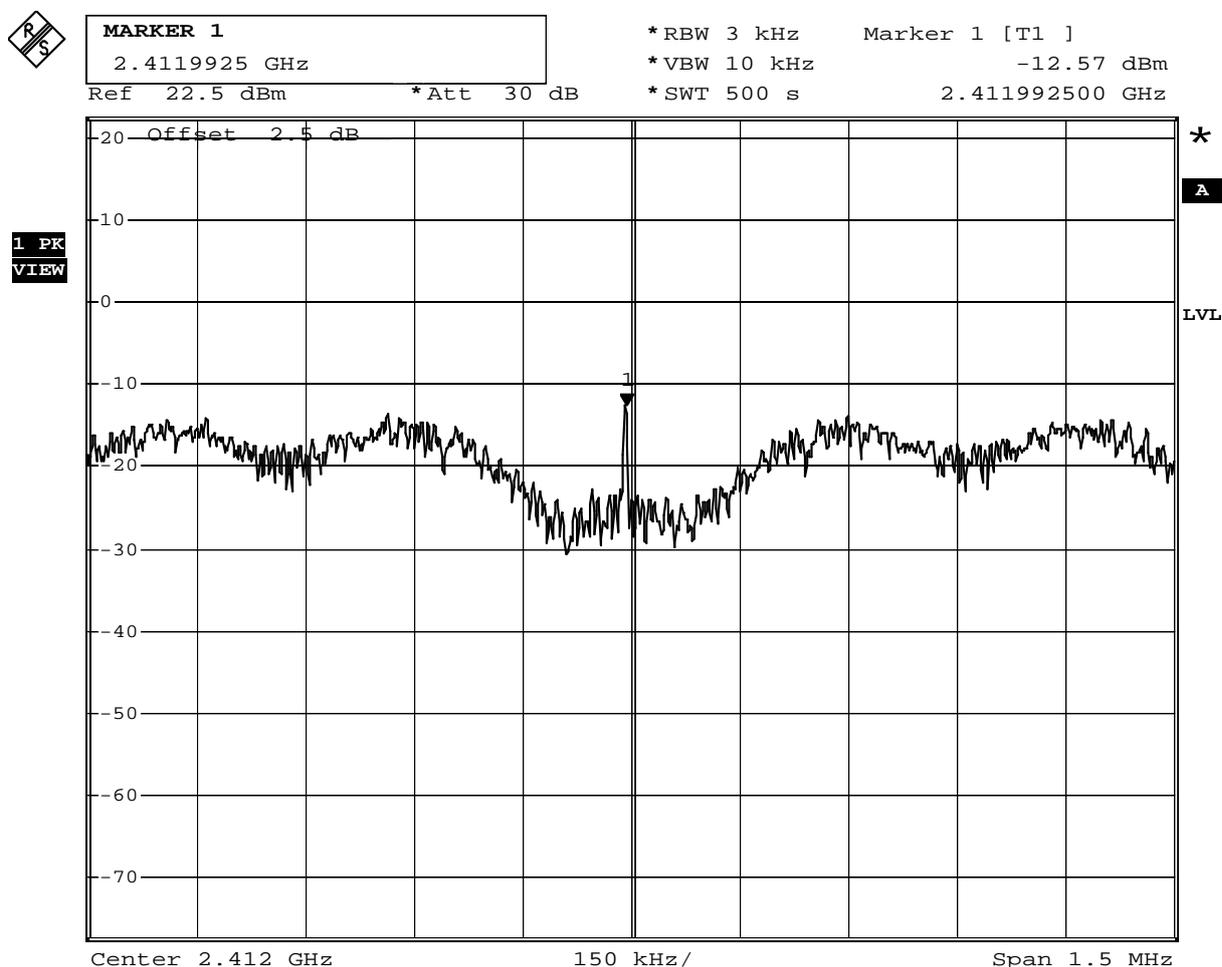
Center 2.462 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:25:11

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE802.11n_20MHz_(ANT A)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-12.57	≤ 8	Pass
6	2437.00	-12.16	≤ 8	Pass
11	2462.00	-15.07	≤ 8	Pass

Channel 1



Date: 15.JUN.2011 19:28:29

Channel 6

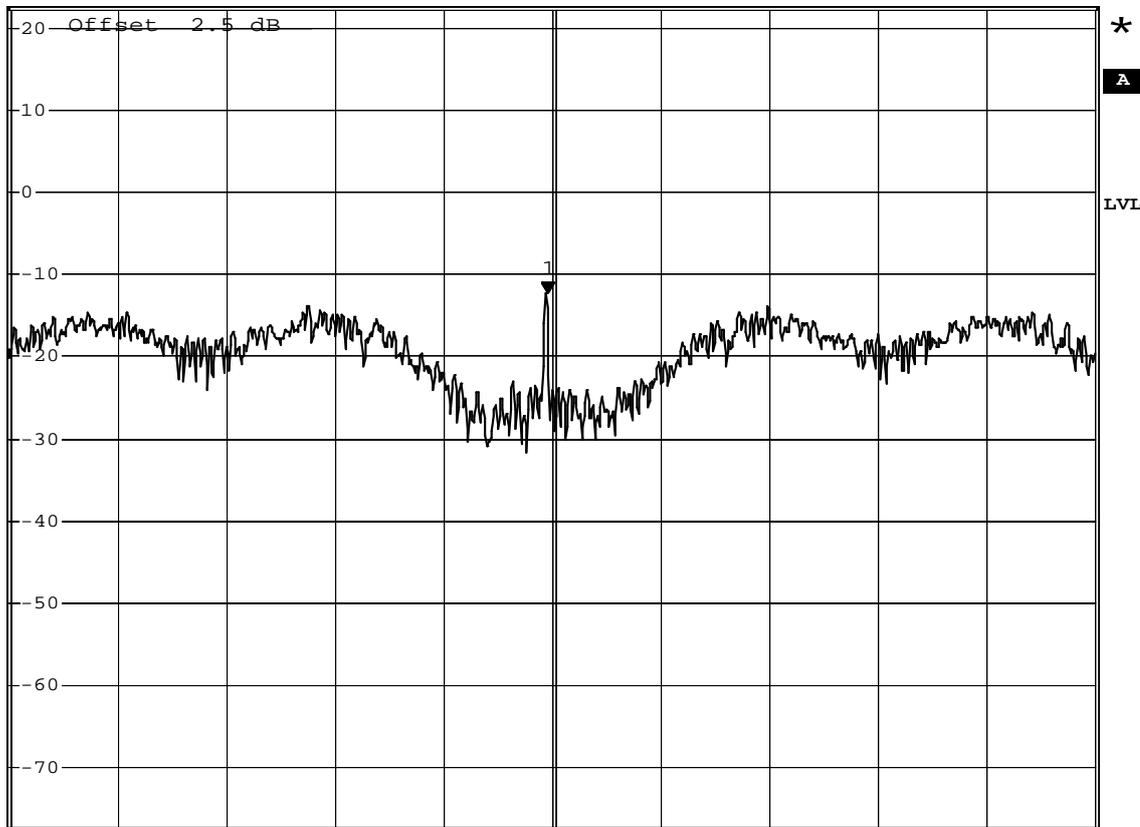


MARKER 1
2.4369925 GHz

Ref 22.5 dBm *Att 30 dB

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -12.16 dBm
*SWT 500 s 2.436992500 GHz

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:29:52

Channel 11

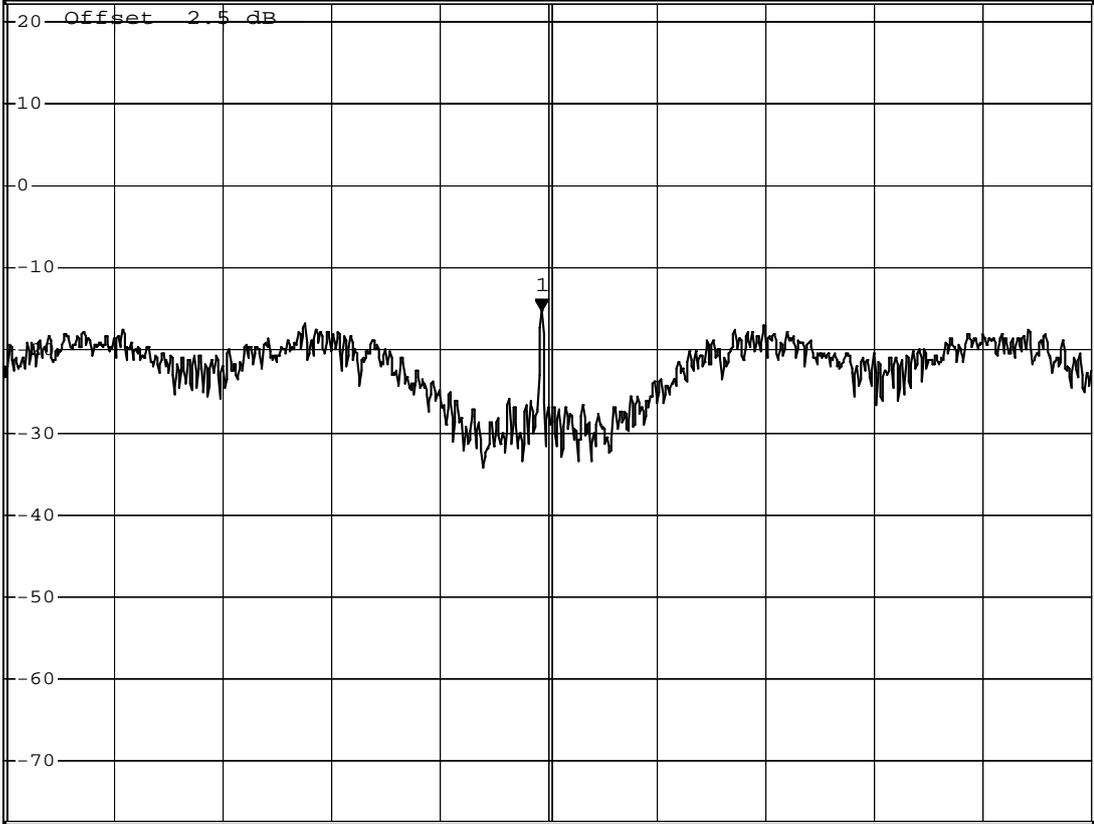


MARKER 1
2.461991 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.07 dBm
*SWT 500 s 2.461991000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



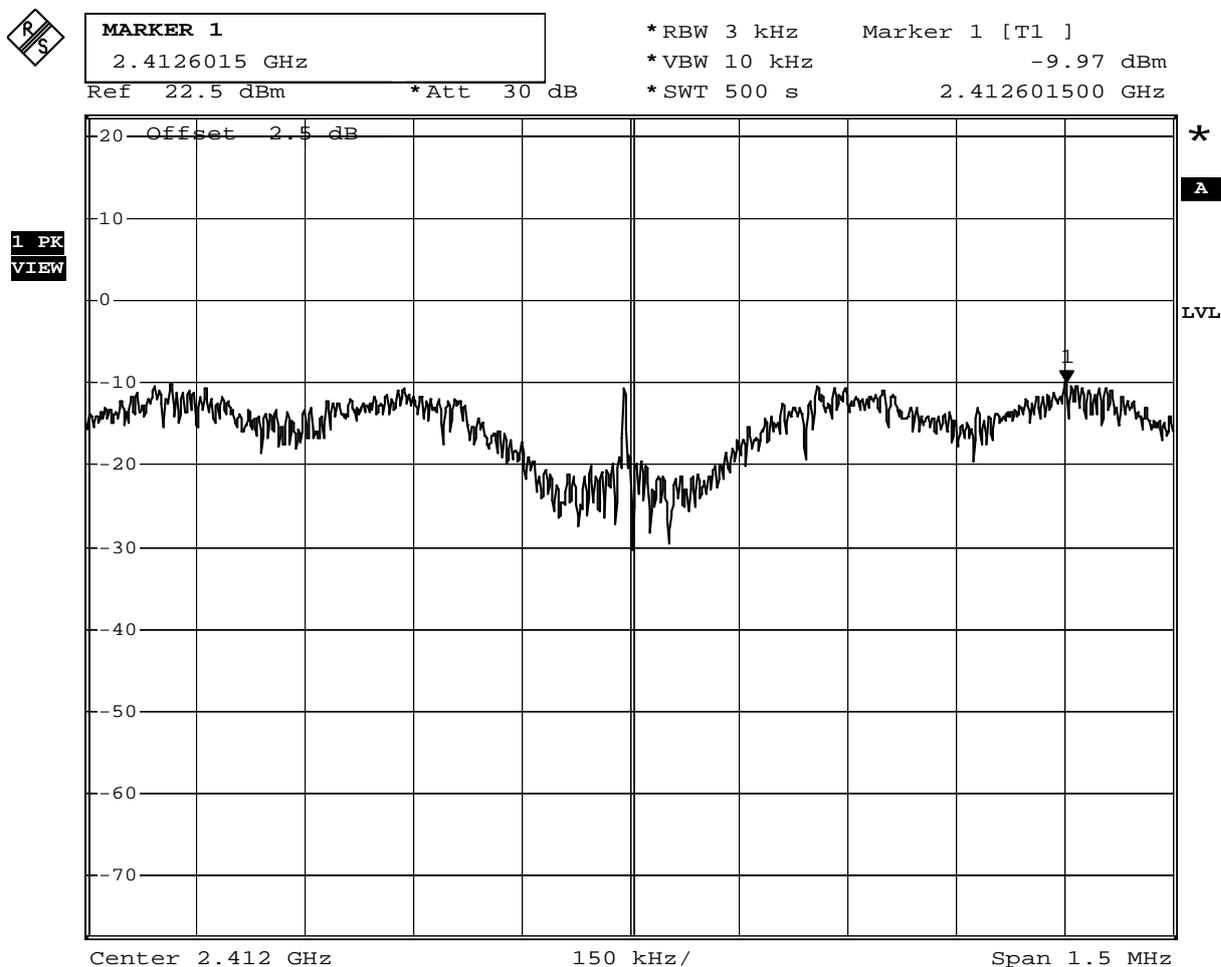
Center 2.462 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:34:19

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE802.11n_20MHz_(ANT B)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-9.97	≤ 8	Pass
6	2437.00	-10.64	≤ 8	Pass
11	2462.00	-14.78	≤ 8	Pass

Channel 1



Date: 15.JUN.2011 19:41:53

Channel 6

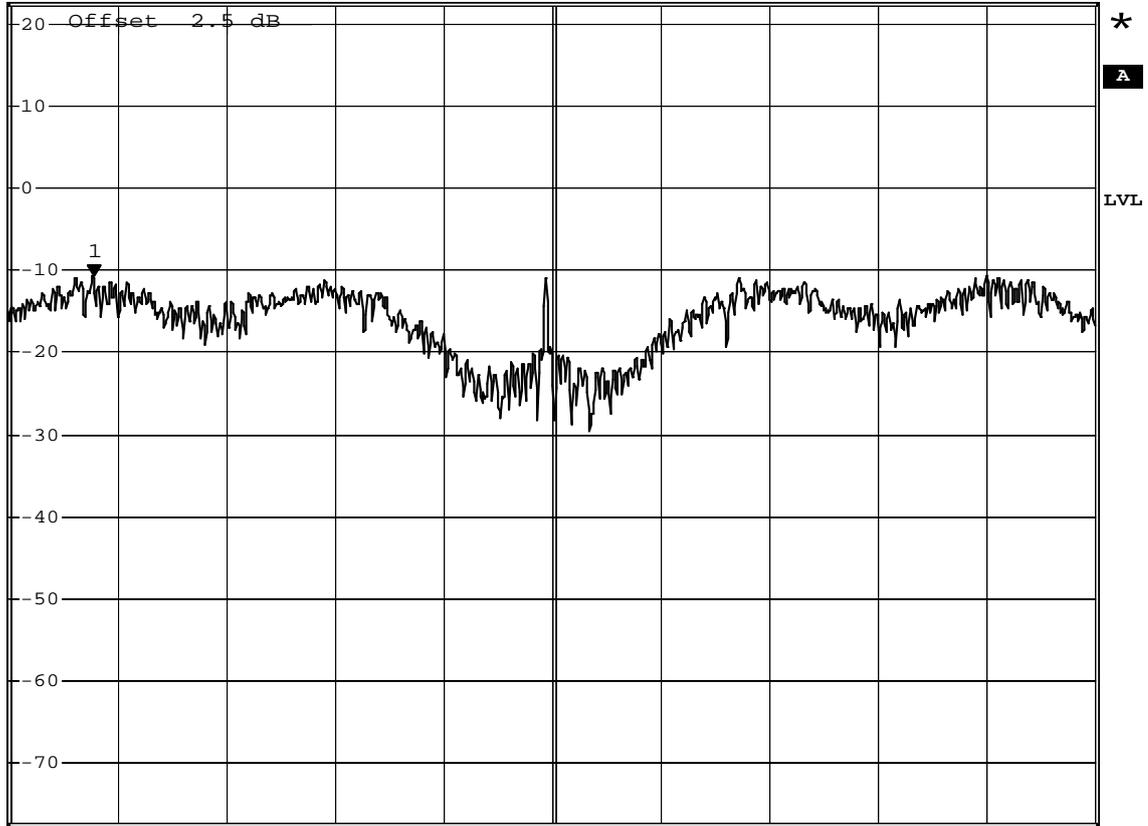


MARKER 1
2.4363655 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -10.64 dBm
*SWT 500 s 2.436365500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:42:51

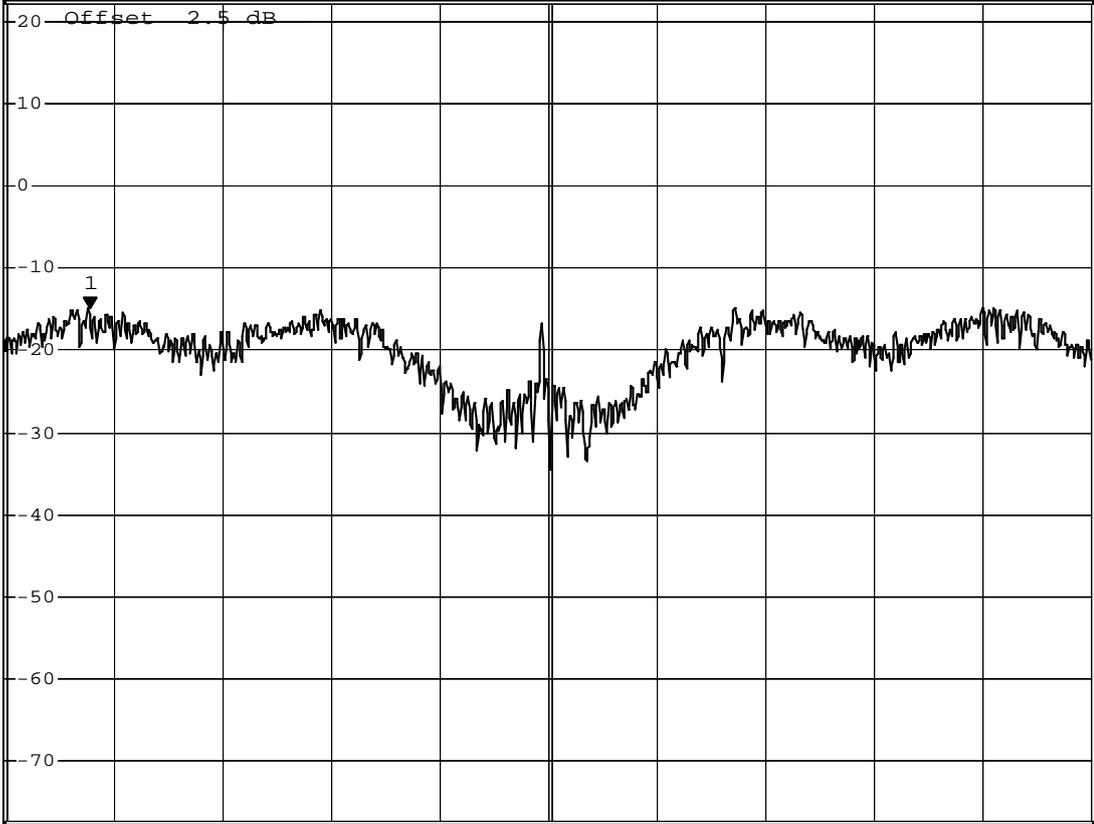
Channel 11



MARKER 1
2.4613655 GHz
Ref 22.5 dBm *Att 30 dB

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -14.78 dBm
*SWT 500 s 2.461365500 GHz

1 PK
VIEW



Date: 15.JUN.2011 19:43:43

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

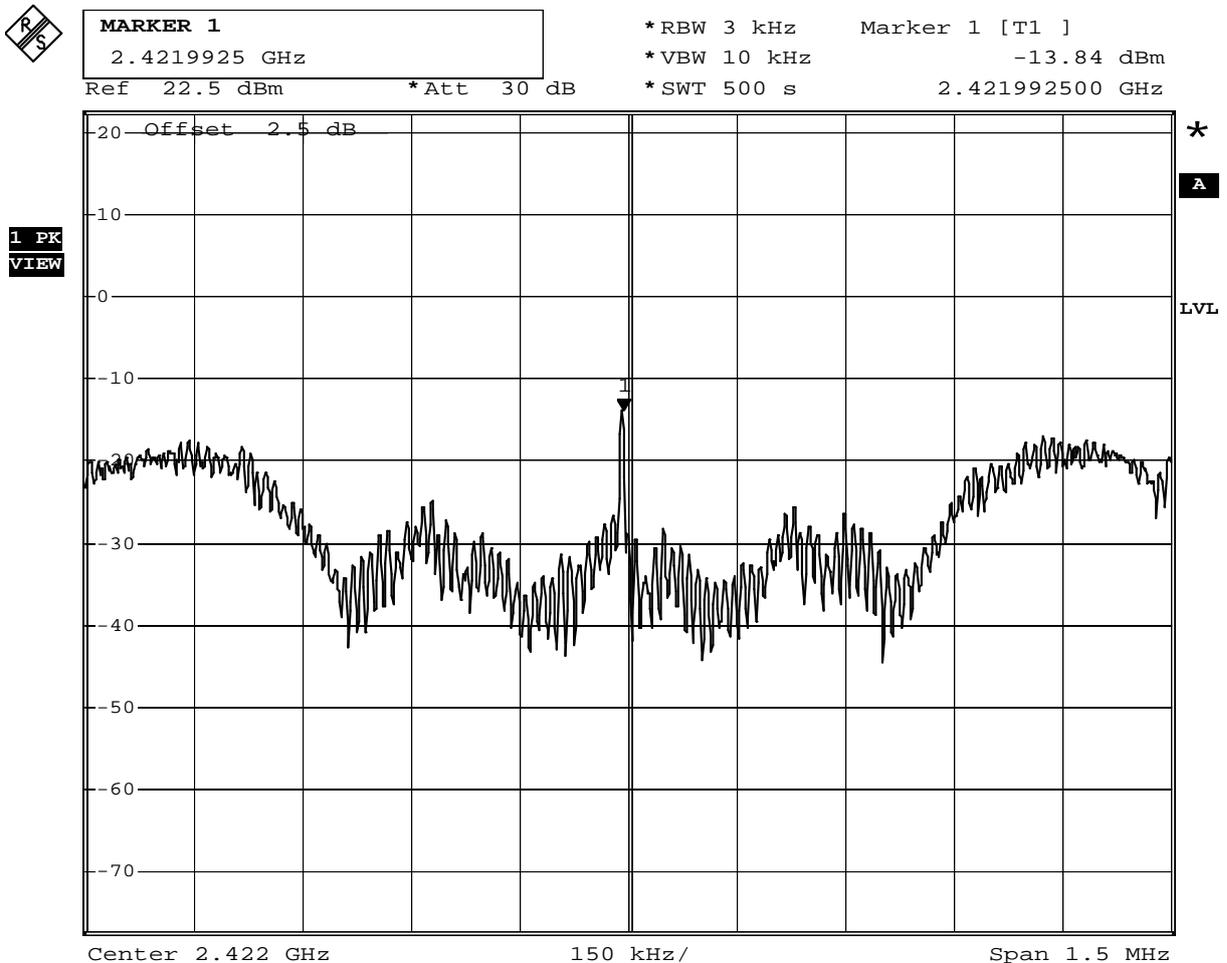
IEEE802.11n 20MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.07	≤ 8	Pass
6	2437	-8.32	≤ 8	Pass
11	2462	-11.91	≤ 8	Pass

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n_40MHz (ANT A)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-13.84	≤ 8	Pass
6	2437	-12.89	≤ 8	Pass
9	2452	-15.14	≤ 8	Pass

Channel 3



Date: 15.JUN.2011 19:32:39

Channel 6

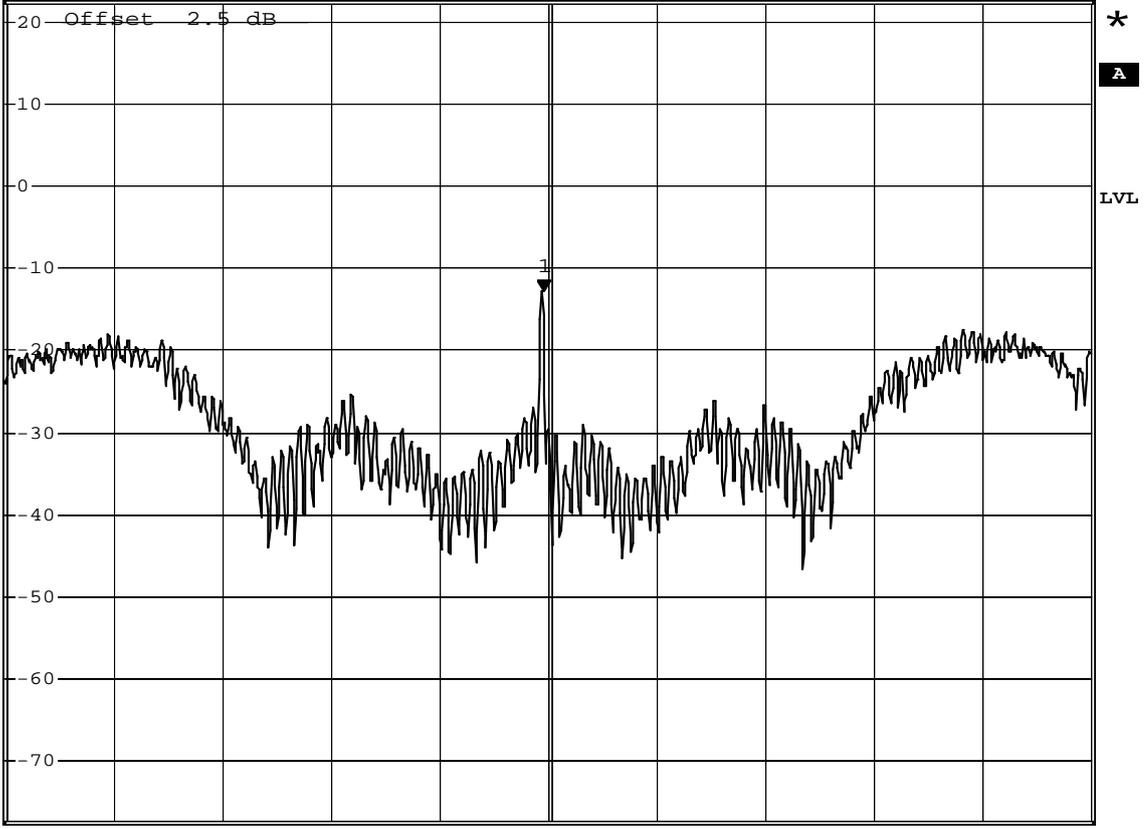


MARKER 1
2.4369925 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -12.89 dBm
*SWT 500 s 2.436992500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:35:09

Channel 9

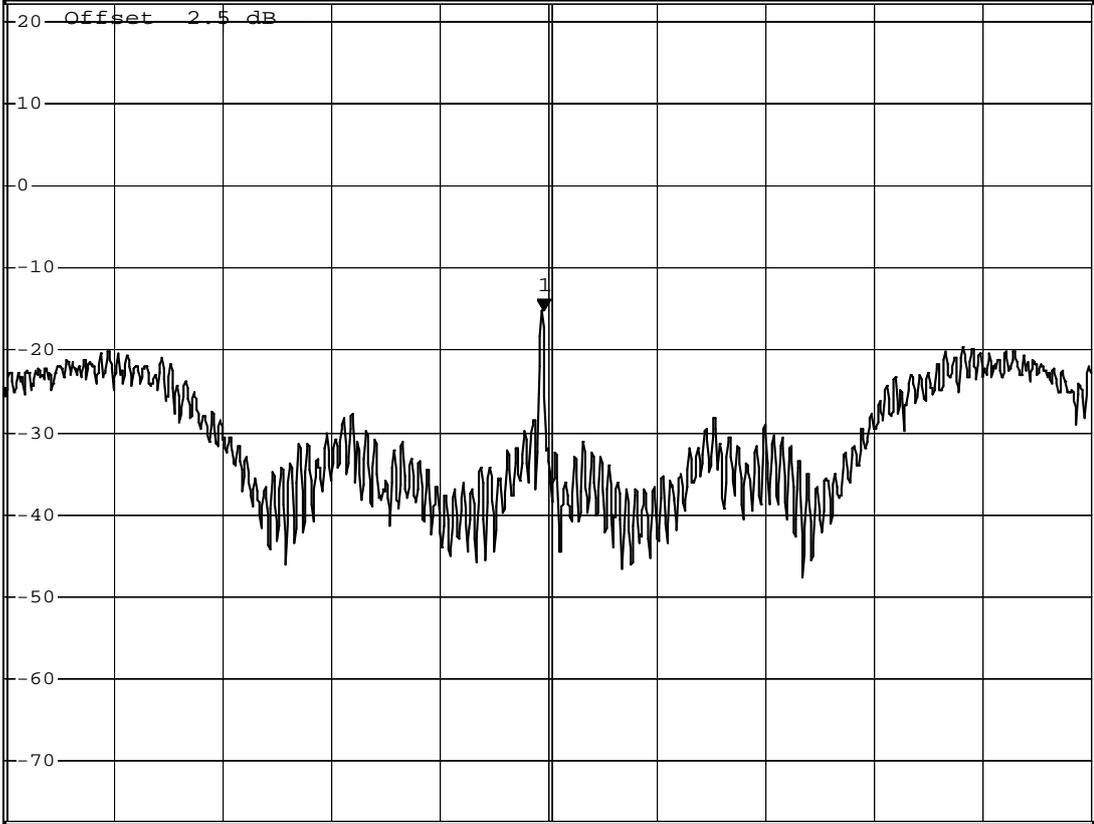


MARKER 1
2.4519925 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.14 dBm
*SWT 500 s 2.451992500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



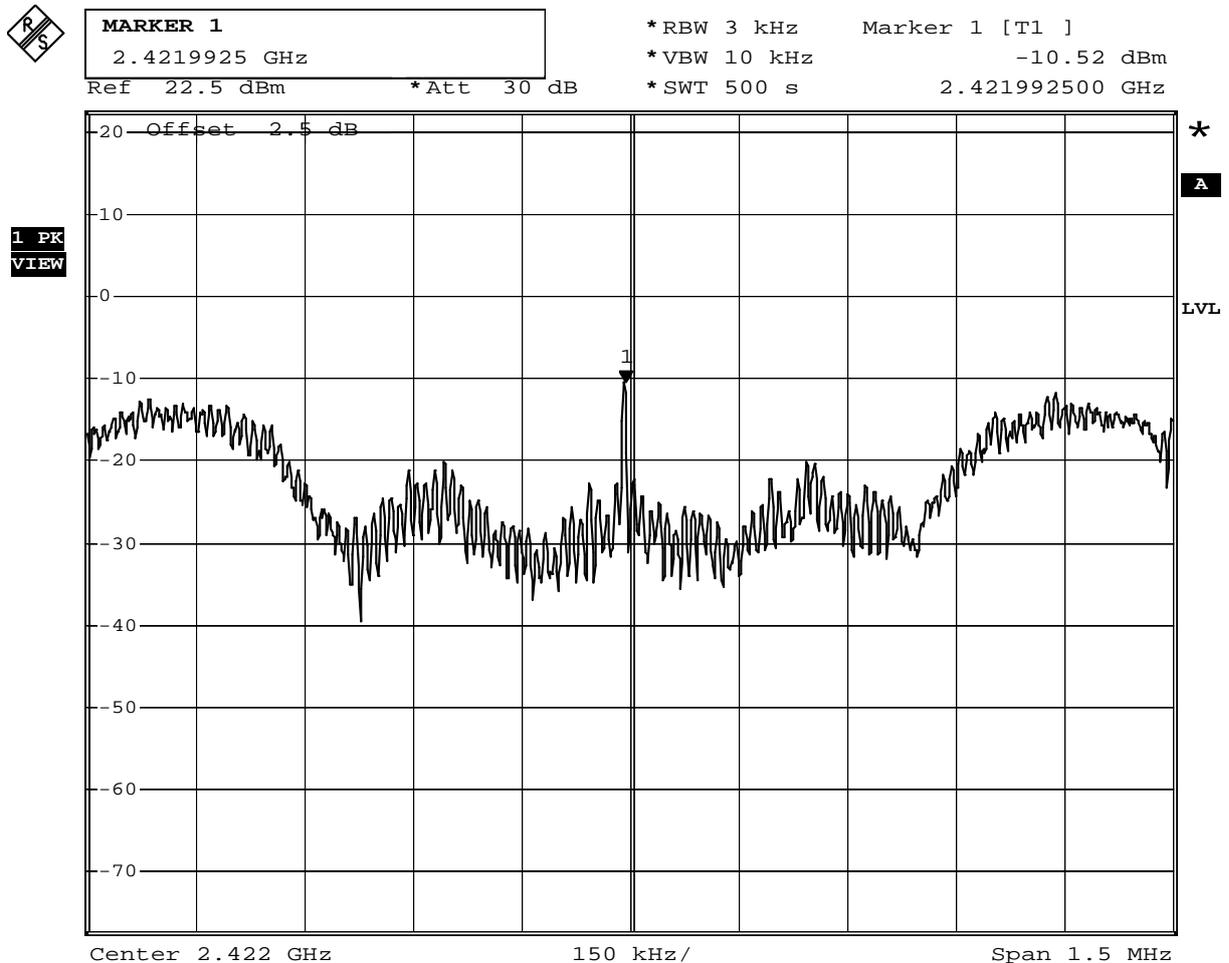
Center 2.452 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:36:46

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

IEEE 802.11n_40MHz (ANT B)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-10.52	≤ 8	Pass
6	2437	-10.16	≤ 8	Pass
9	2452	-12.70	≤ 8	Pass

Channel 3



Date: 15.JUN.2011 19:45:14

Channel 6

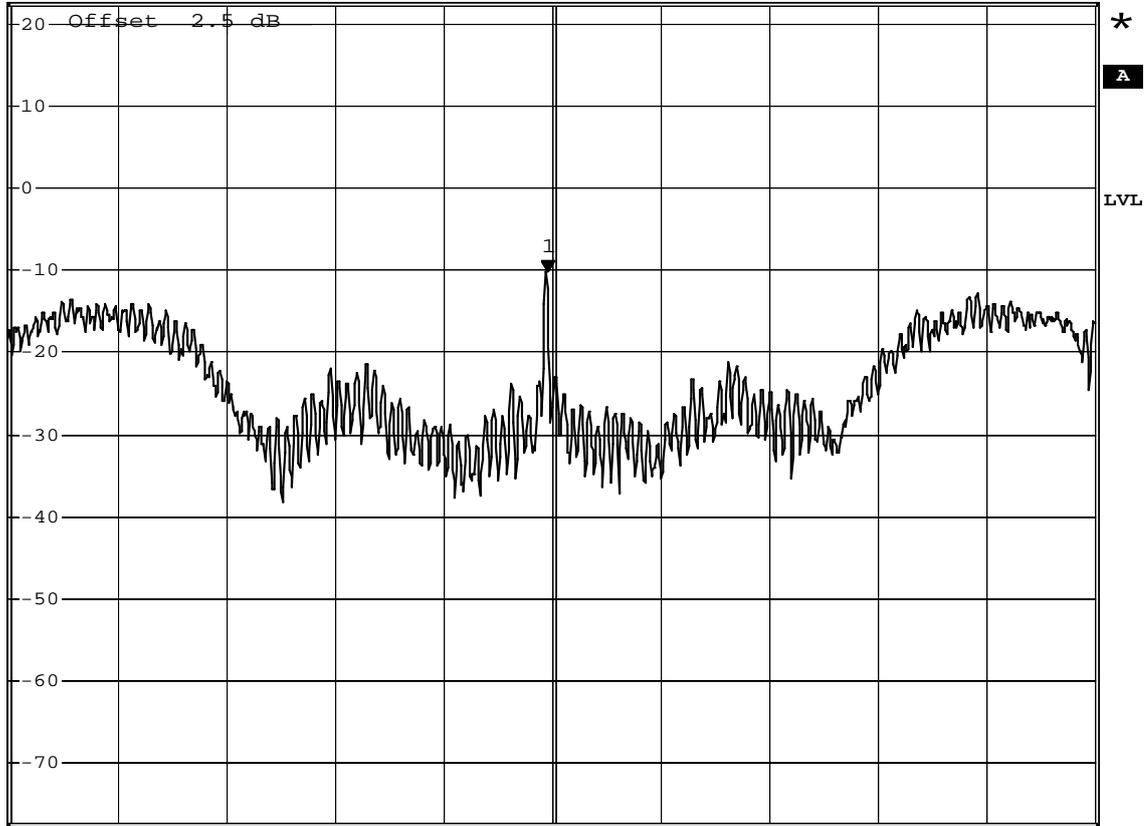


MARKER 1
2.4369925 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -10.16 dBm
*SWT 500 s 2.436992500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.437 GHz 150 kHz/ Span 1.5 MHz

Date: 15.JUN.2011 19:46:05

Channel 9

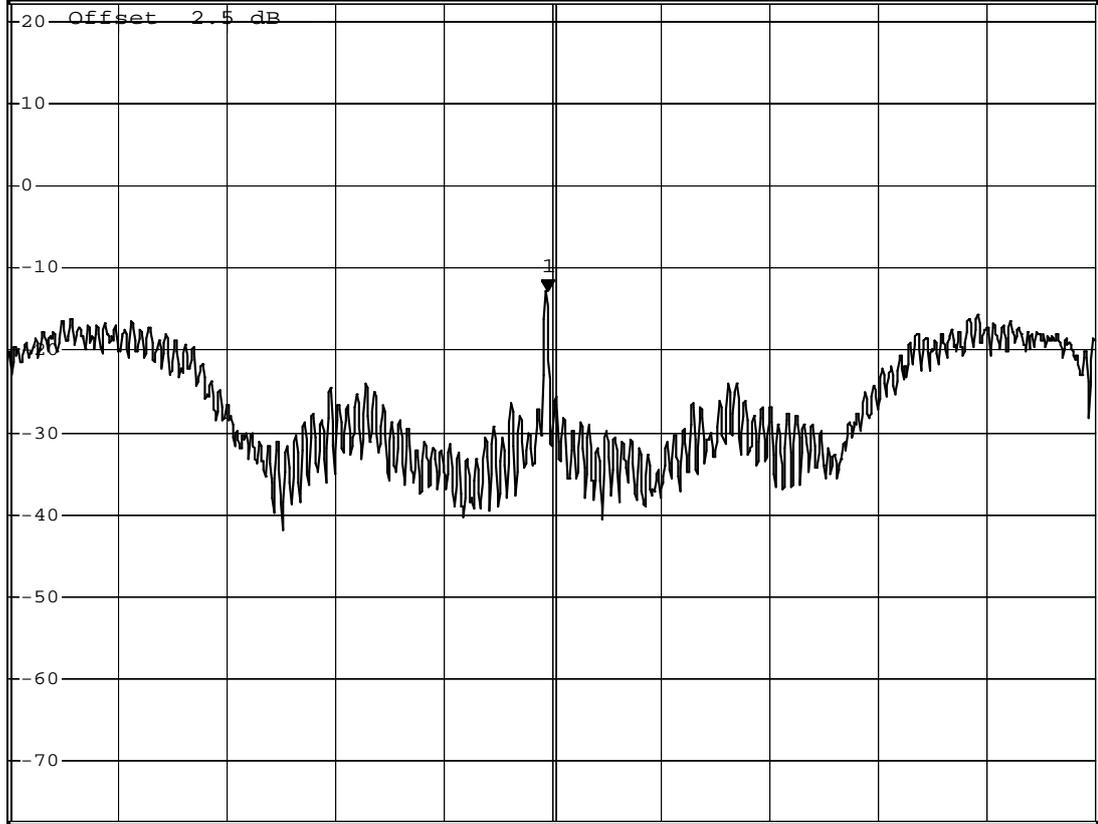


MARKER 1
2.4519925 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -12.70 dBm
*SWT 500 s 2.451992500 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Date: 15.JUN.2011 19:46:58

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/15	Test Site	SR7

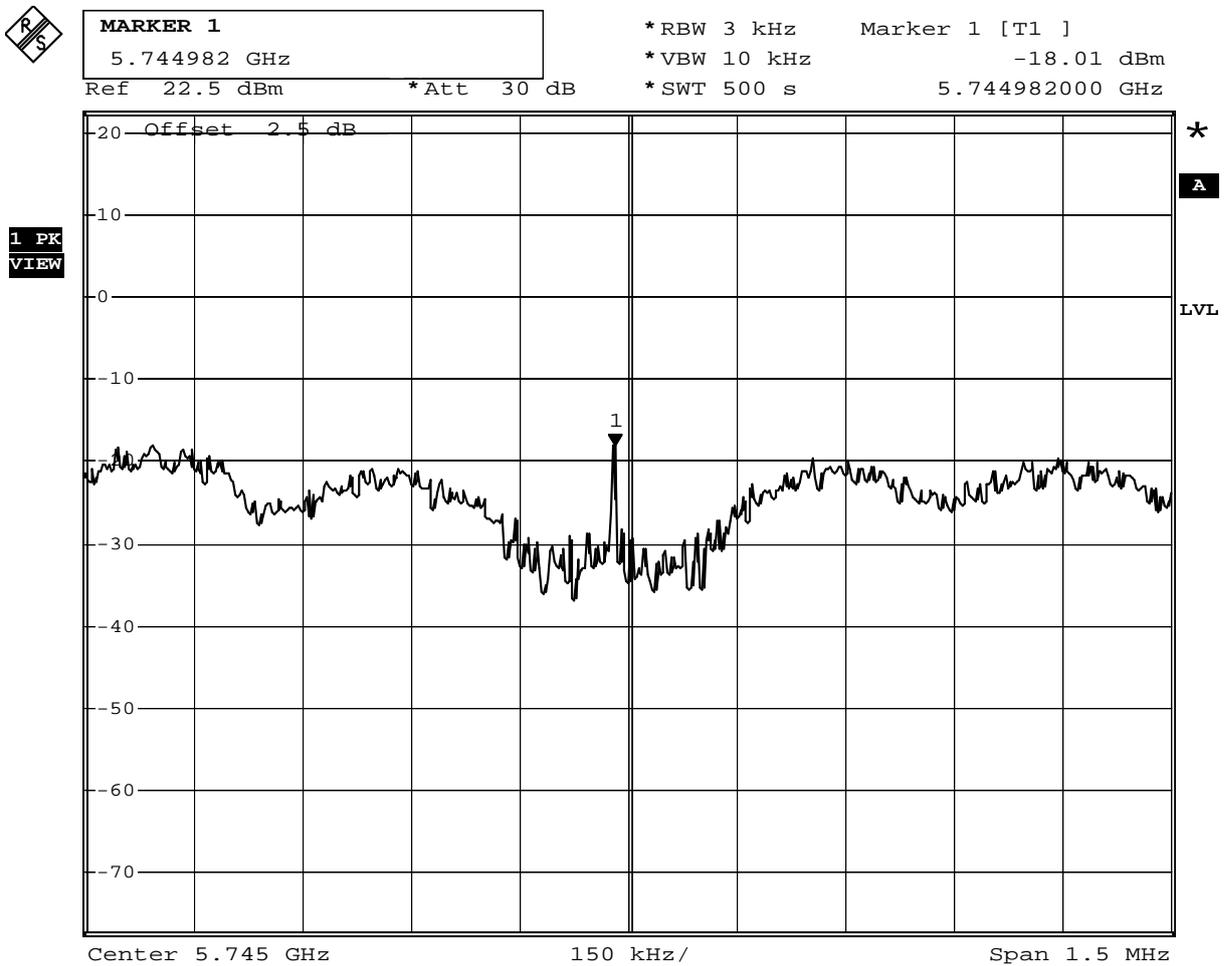
IEEE802.11n 40MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-8.86	≤ 8	Pass
6	2437	-8.30	≤ 8	Pass
9	2452	-10.74	≤ 8	Pass

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-18.01	≤ 8	Pass
157	5785	-18.23	≤ 8	Pass
165	5825	-17.54	≤ 8	Pass

Channel 149



Date: 16.JUN.2011 09:34:31

Channel 157

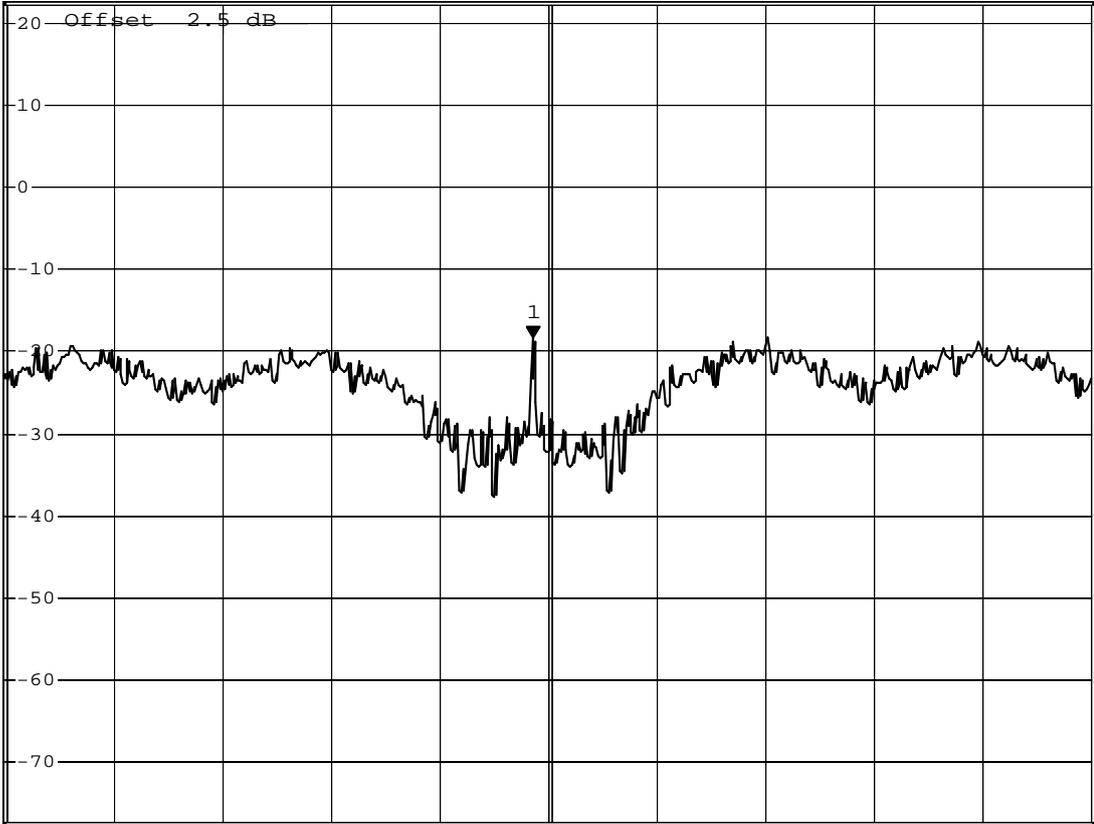


MARKER 1
5.784979 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -18.23 dBm
*SWT 500 s 5.784979000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Date: 16.JUN.2011 09:35:52

Channel 165

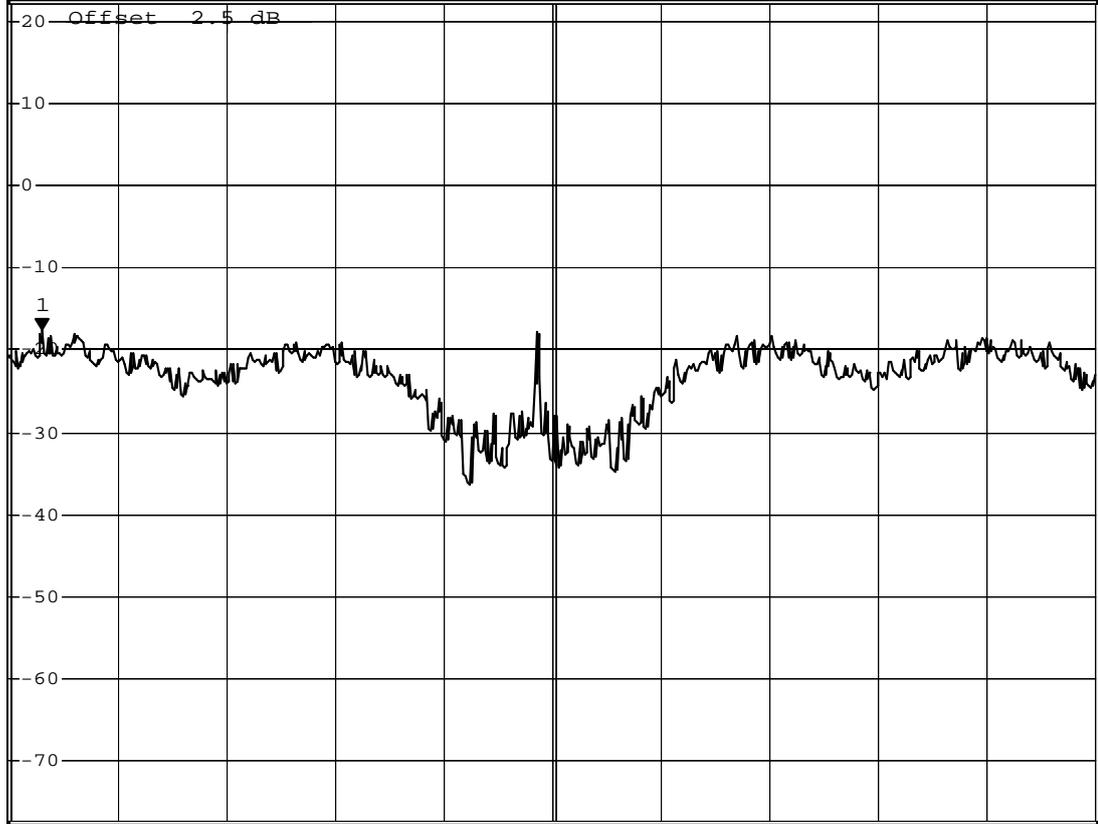


MARKER 1
5.824295 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -17.54 dBm
*SWT 500 s 5.824295000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



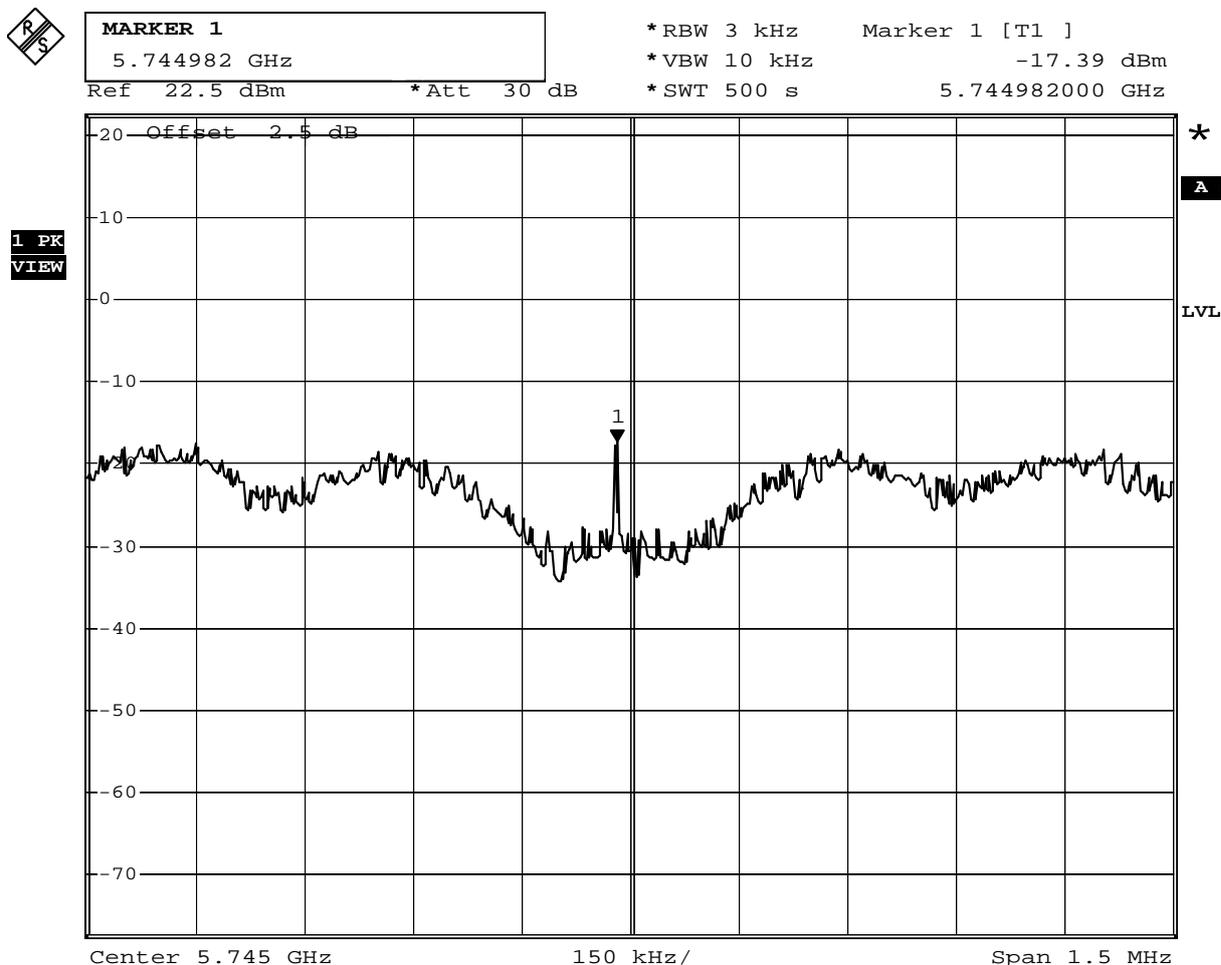
Center 5.825 GHz 150 kHz/ Span 1.5 MHz

Date: 16.JUN.2011 09:37:53

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE802.11n_20MHz_(ANT A)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-17.39	≤ 8	Pass
157	5785	-17.07	≤ 8	Pass
165	5825	-15.01	≤ 8	Pass

Channel 149



Date: 16.JUN.2011 09:38:46

Channel 157

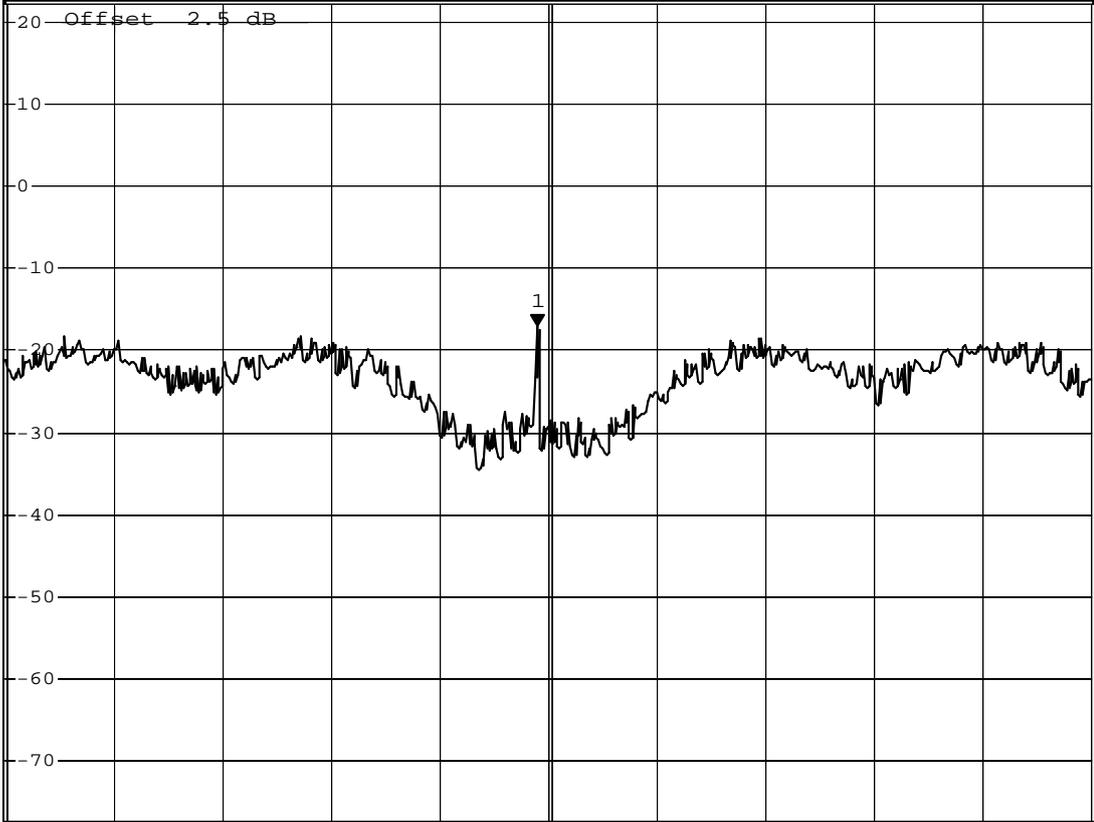


MARKER 1
5.784985 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -17.07 dBm
*SWT 500 s 5.784985000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 5.785 GHz 150 kHz/ Span 1.5 MHz

Date: 16.JUN.2011 09:41:42

Channel 165

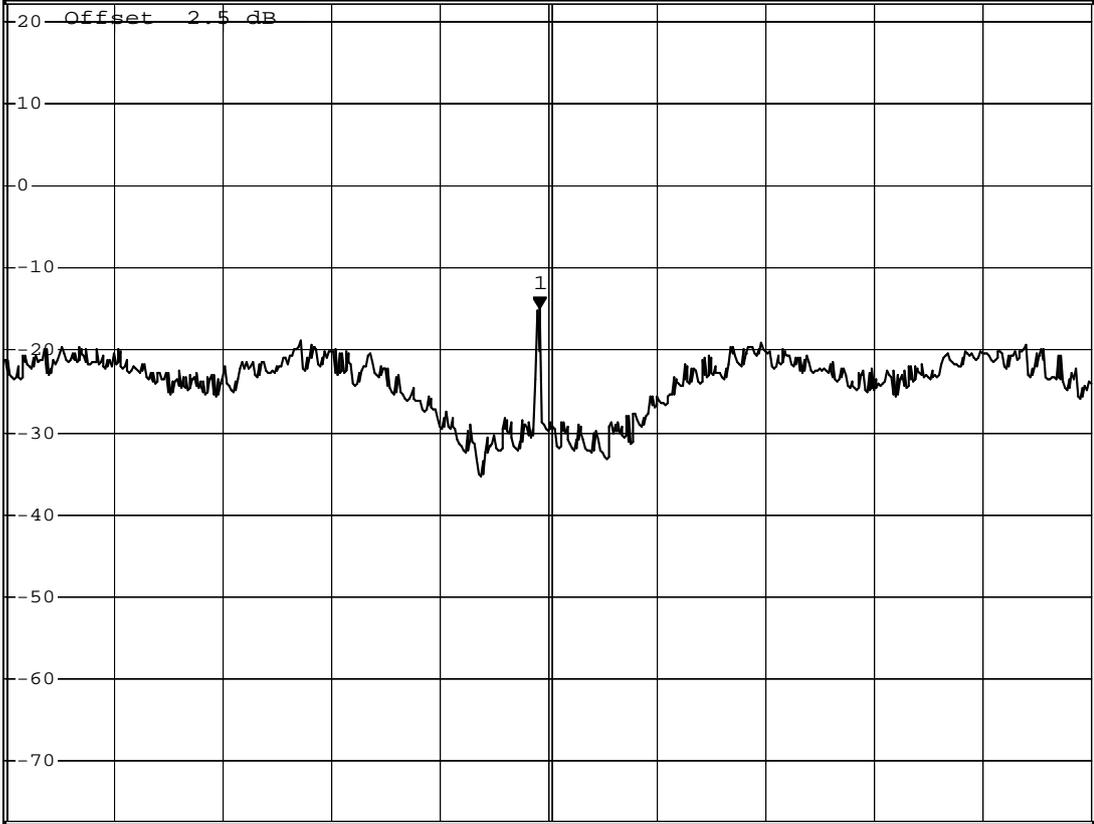


MARKER 1
5.824988 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -15.01 dBm
*SWT 500 s 5.824988000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



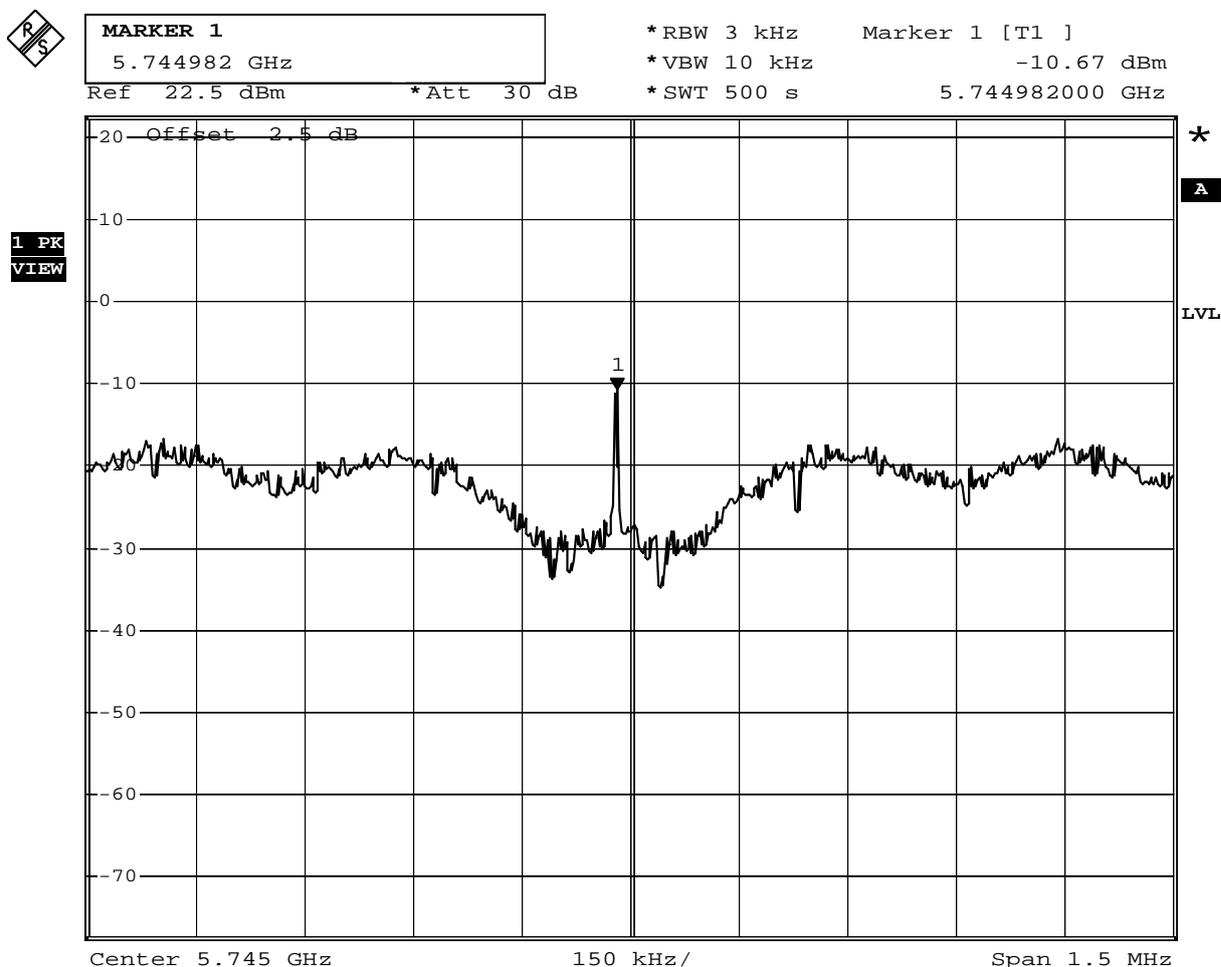
Center 5.825 GHz 150 kHz/ Span 1.5 MHz

Date: 16.JUN.2011 09:42:56

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE802.11n_20MHz_(ANT B)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-10.67	≤ 8	Pass
157	5785	-11.61	≤ 8	Pass
165	5825	-10.44	≤ 8	Pass

Channel 149



Date: 16.JUN.2011 09:47:48

Channel 157

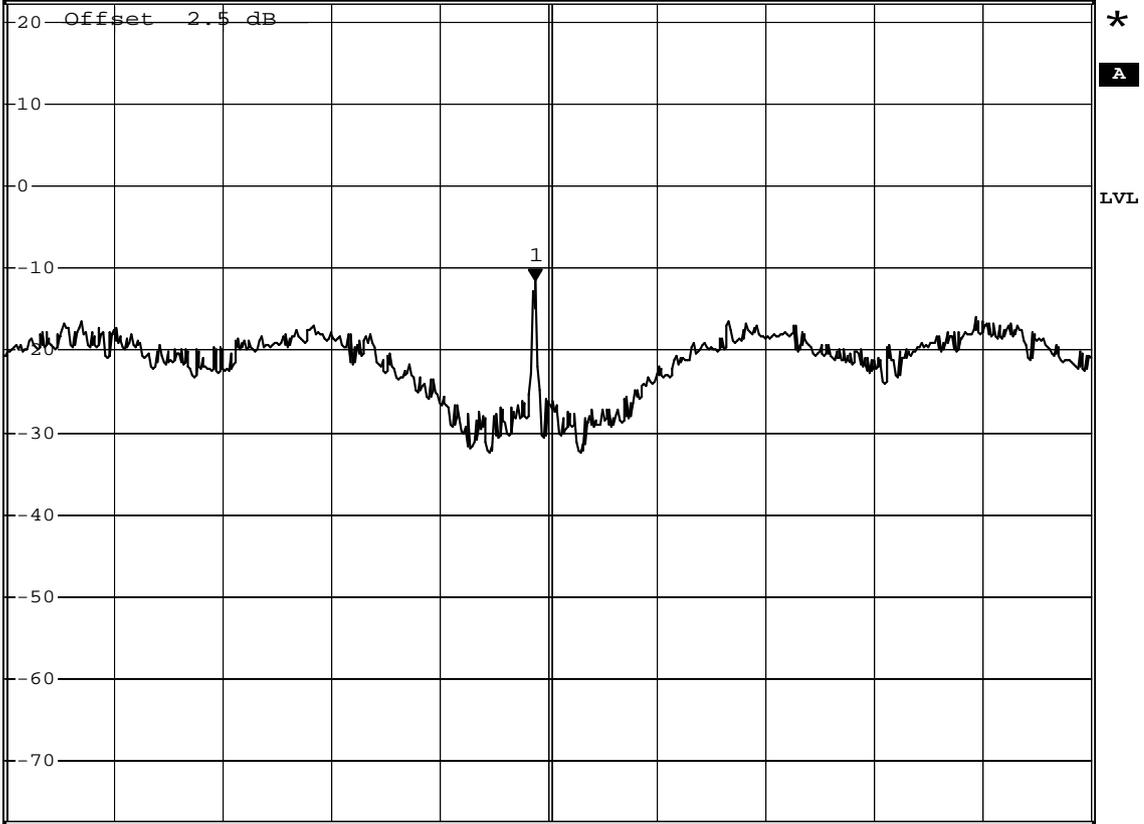


MARKER 1
5.784982 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -11.61 dBm
*SWT 500 s 5.784982000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 5.785 GHz 150 kHz/ Span 1.5 MHz

Date: 16.JUN.2011 09:48:40

Channel 165

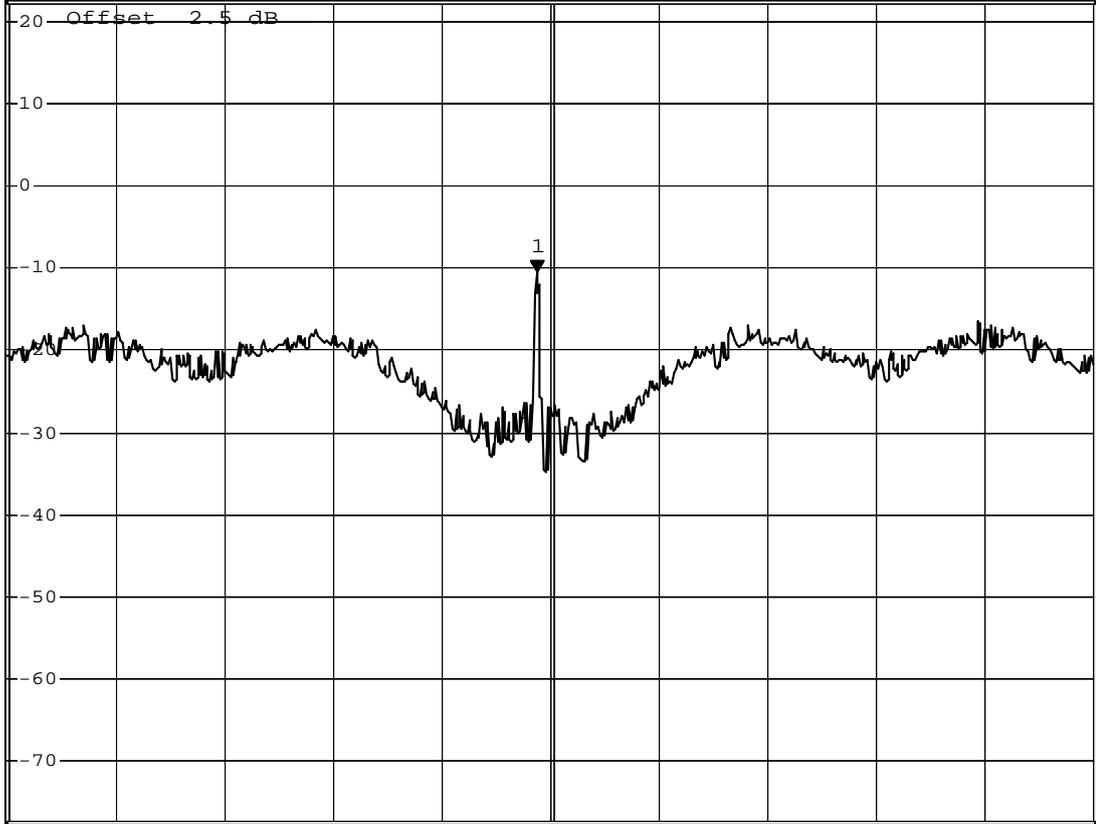


MARKER 1
5.824982 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -10.44 dBm
*SWT 500 s 5.824982000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Center 5.825 GHz 150 kHz/ Span 1.5 MHz

Date: 16.JUN.2011 09:49:21

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

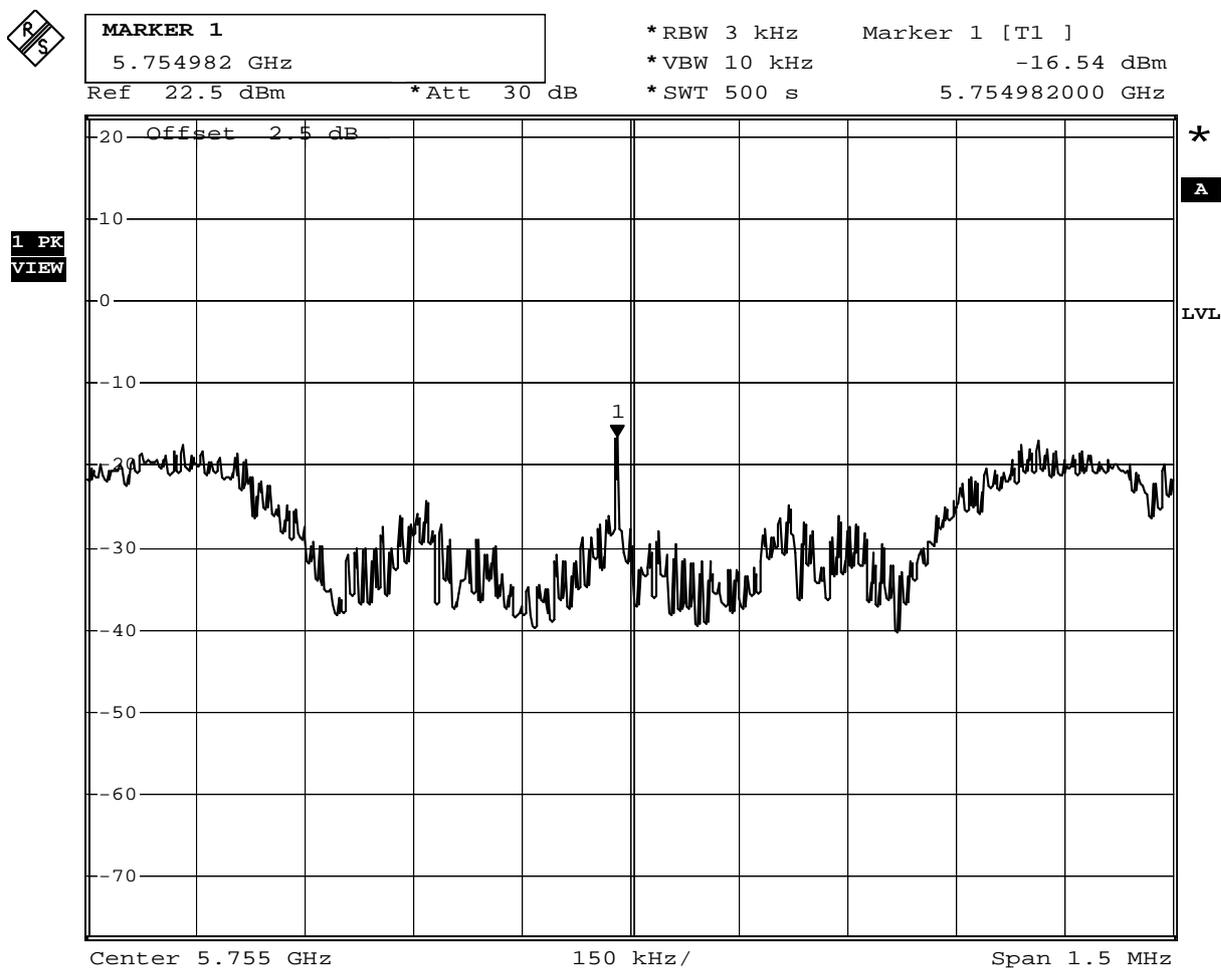
IEEE802.11n 20MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-9.83	≤ 8	Pass
157	5785	-10.52	≤ 8	Pass
165	5825	-9.14	≤ 8	Pass

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n_40MHz (ANT A)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-16.54	≤ 8	Pass
159	5795	-17.58	≤ 8	Pass

Channel 151



Date: 16.JUN.2011 09:45:15

Channel 159

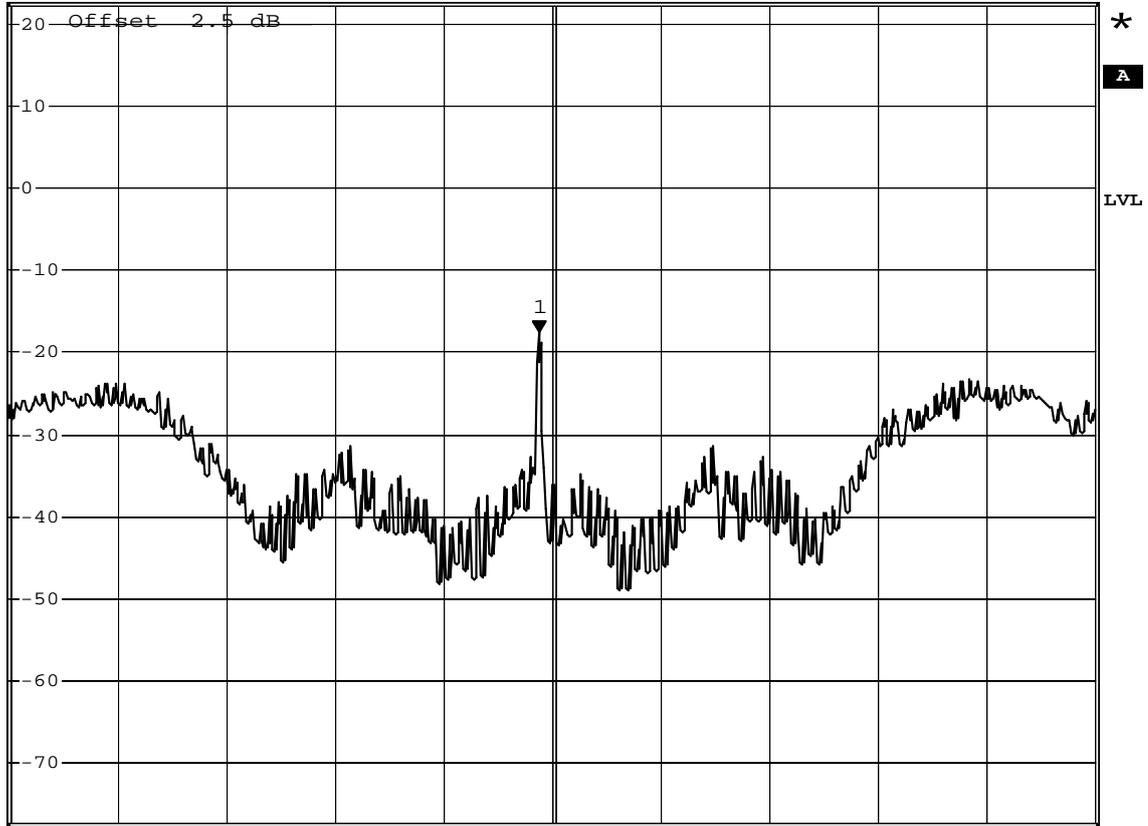


MARKER 1
5.794982 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -17.58 dBm
*SWT 500 s 5.794982000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW

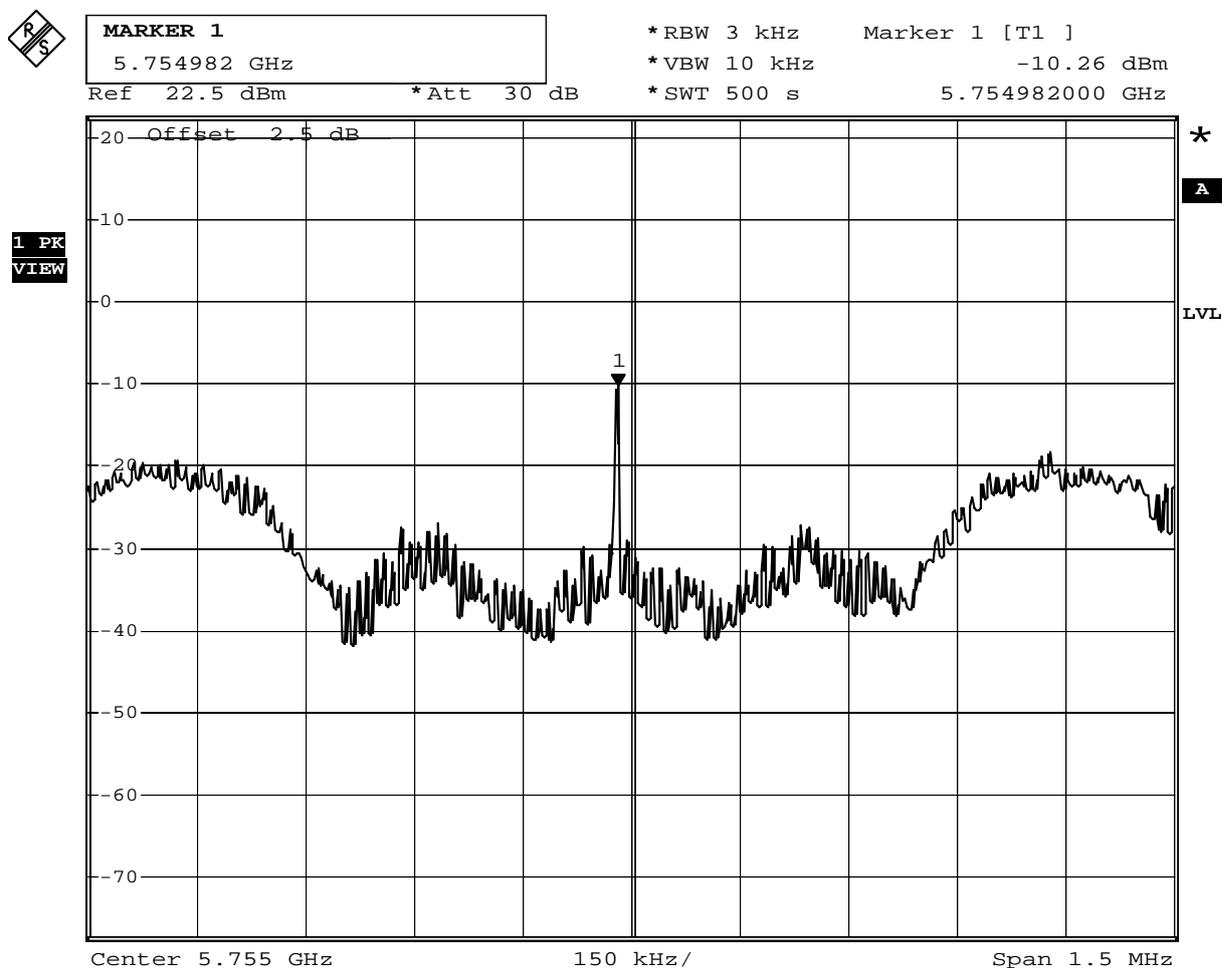


Date: 16.JUN.2011 09:46:07

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE 802.11n_40MHz (ANT B)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-10.26	≤ 8	Pass
159	5795	-13.62	≤ 8	Pass

Channel 151



Date: 16.JUN.2011 09:51:54

Channel 159

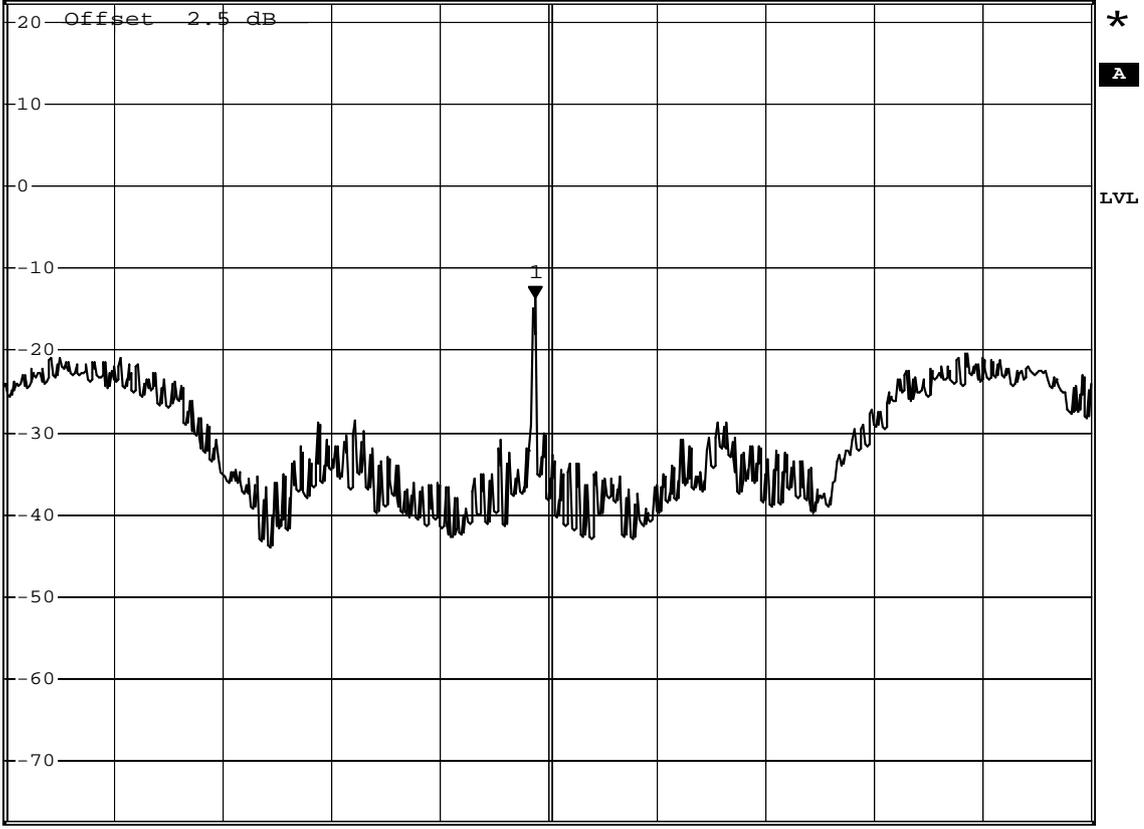


MARKER 1
5.794982 GHz

*RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -13.62 dBm
*SWT 500 s 5.794982000 GHz

Ref 22.5 dBm *Att 30 dB

1 PK
VIEW



Date: 16.JUN.2011 09:52:40

Product	Dual-band Wireless USB Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2011/06/16	Test Site	SR7

IEEE802.11n 40MHz(ANT A+B)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-14.02	≤ 8	Pass
159	5795	-8.61	≤ 8	Pass