



Test Report

Product Name : Dual Band 3x3 802.11ac PCI-E Adapter
Model No. : PCE-AC66
FCC ID. : MSQ-PCEAC66

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt : 2012/10/04

Issued Date : 2012/11/19

Report No. : 12A126R-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 : 2012/11/19

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 Applicant : ASUSTeK COMPUTER INC.
 Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
 Manufacturer : Arcadyan Technology Corporation
 Model No. : PCE-AC66
 FCC ID. : MSQ-PCEAC66
 EUT Voltage : DC 3.3V (Power by PC)
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2011
 ANSI C63.4: 2009
 Test Result : Complied

The test results relate only to the samples tested.

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Documented By :

(Carol Tsai / Adm. Specialist)

Tested By :

(Ben Huang / Assistant Engineer)

Approved By :

(Roy Wang / Manager)

Laboratory Information

We, **Quietek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	:	TAF, Accreditation Number: 1313 NCC, Certificate No : NCC-RCB-07
USA	:	FCC, Registration Number: 365520
Canada	:	IC, Submission No: 150981

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site:<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

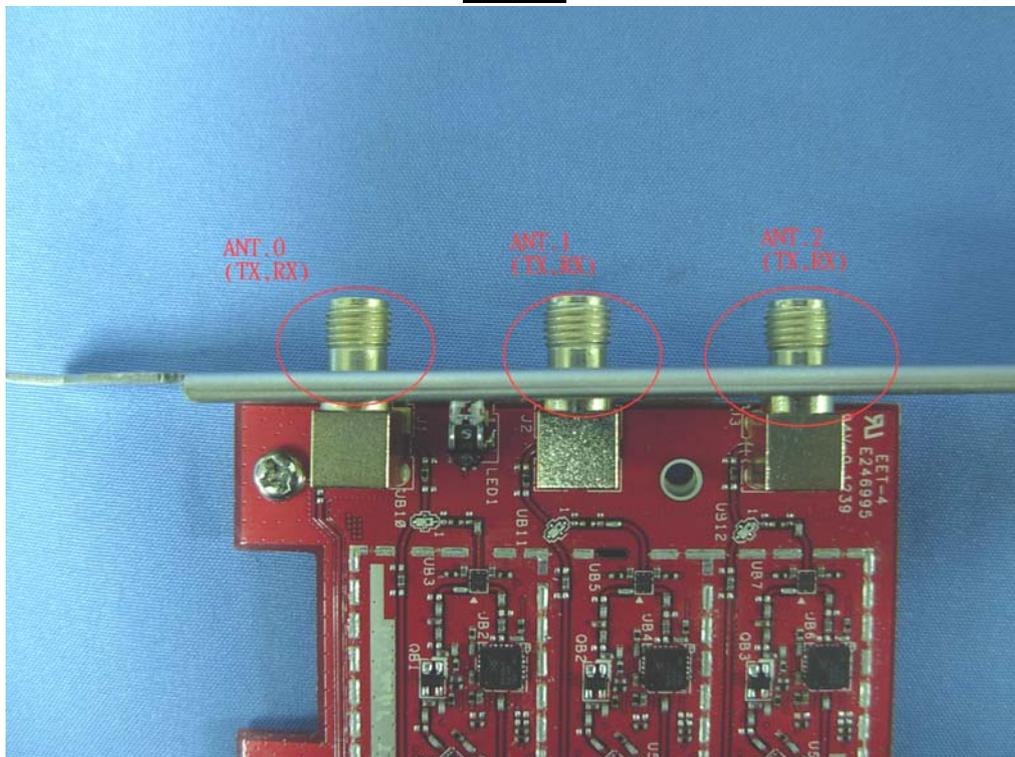
1.1. EUT Description

Product Name	Dual Band 3x3 802.11ac PCI-E Adapter		
Product Type	WLAN(3TX,3RX)		
Trade Name	ASUS		
Model No.	PCE-AC66		
Frequency Range	IEEE 802.11b/g/ IEEE 802.11n (20MHz)_2.4GHz	2412~2462MHz	
	IEEE 802.11n (40MHz)_2.4GHz	2422~2452MHz	
	IEEE 802.11a/ IEEE 802.11n (20MHz)_5.8GHz / IEEE 802.11ac (20MHz)	5745~5825MHz	
	IEEE 802.11n (40MHz)_5.8GHz / IEEE 802.11ac (40MHz)	5755~5795MHz	
	IEEE 802.11ac (80MHz)	5775MHz	
	Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)_2.4GHz	11
IEEE 802.11n (40MHz)_2.4GHz		7	
IEEE 802.11a/ IEEE 802.11n (20MHz)_5.8GHz / IEEE 802.11ac (20MHz)		5	
IEEE 802.11n (40MHz)_5.8GHz / IEEE 802.11ac (40MHz)		2	
IEEE 802.11ac (80MHz)_5.8GHz		1	
Type of Modulation		IEEE 802.11b	Direct Sequence Spread Spectrum
		IEEE 802.11a/g/n/ac	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps	
	IEEE 802.11a/g	6, 9, 18, 24, 36, 48,54Mbps	
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n	
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac	
Antenna Gain	2dBi		
Channel Control	Manual		
Antenna Type	Dipole		

ANT-TX / Rx & Bandwidth

ANT-TX / RX	SINGLE-TX	THREE-TX			RX		
	20MHz	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓				✓		
IEEE802.11b	✓				✓		
IEEE802.11g	✓						
IEEE802.11n		✓	✓		✓	✓	
IEEE802.11ac		✓	✓	✓	✓	✓	✓

TX / RX



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

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
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0

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

Table 3 – MCS parameters for TX Antenna number = 3

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

Draft IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20 MHz		40 MHz		80 MHz		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4
3	0	BPSK	1/2	19.5	21.6	40.5	45	87.9	97.5	175.5	195
	1	QPSK	1/2	39	43.2	81	90	175.5	195	351	390
	2	QPSK	3/4	58.5	65.1	121.5	135	263.4	292.5	526.5	585
	3	16-QAM	1/2	78	86.7	162	180	351	390	702	780
	4	16-QAM	3/4	117	129.9	243	270	526.5	585	1053	1170
	5	64-QAM	2/3	156	173.4	324	360	702	780	1404	1560
	6	64-QAM	3/4	175.5	195	364.5	405	789.9	877.5	1579.5	1755
	7	64-QAM	5/6	195	216.6	405	450	877.5	975	1755	1950
	8	256-QAM	3/4	234	260.1	486	540	1053	1170	2106	2340
	9	256-QAM	5/6	N/A	N/A	540	600	1170	1299.9	2340	2600.1

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) & IEEE 802.11ac (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) & IEEE 802.11ac (40MHz) - 5.8GHz

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

IEEE 802.11ac (80MHz) - 5.8GHz

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Dual Band 3x3 802.11ac PCI-E Adapter including 2.4GHz b/g/n and 5GHz a/n (3x3) 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: 12A126R-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 12A126R-RFUSP37V02 under Declaration of Conformity.

1.2. 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.

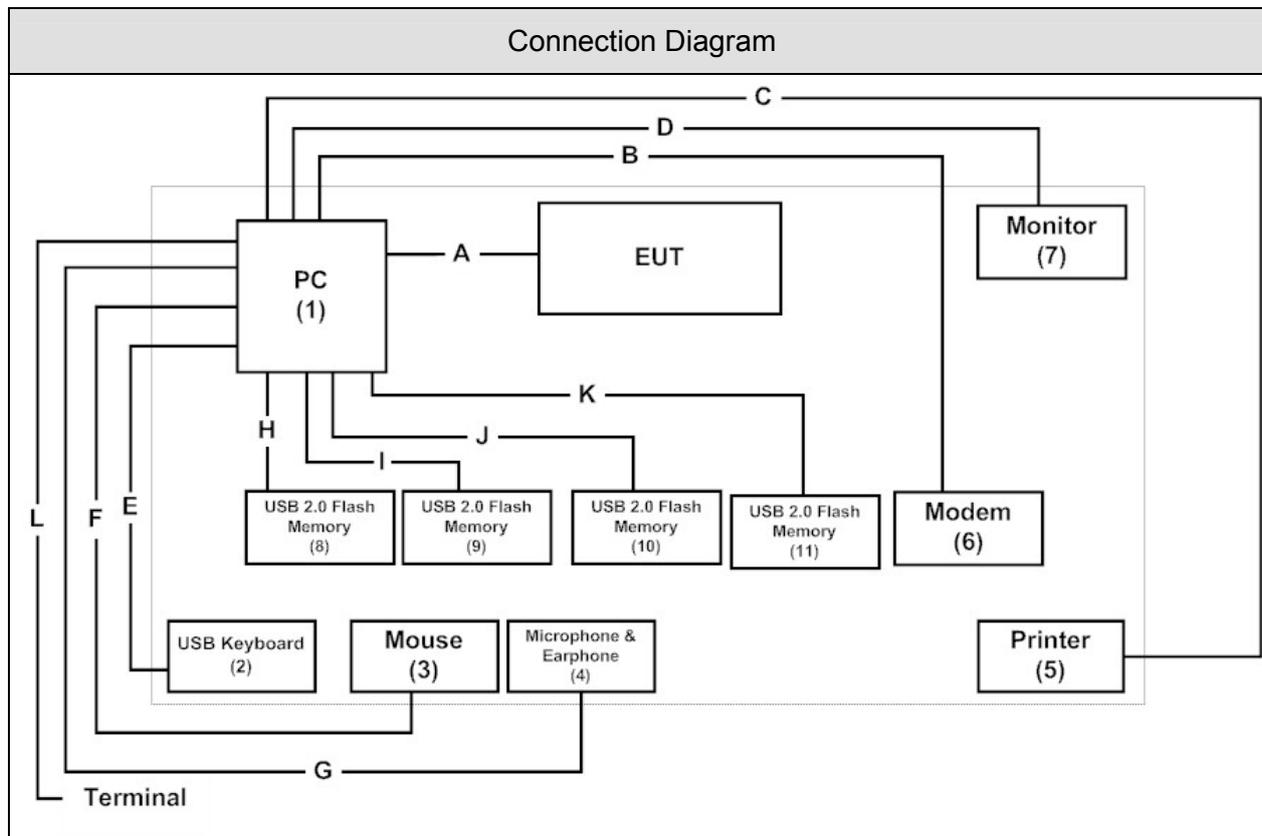
TX		Mode 1: Transmit		
Test Items	Mode	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
Peak Power Output	a	149/ 157/ 165	0	Complies
	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
Radiated Emission	a	149/ 157/ 165	0	Complies
	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	Complies
RF antenna conducted test	a	149/ 165	0	Complies
	b/g	1/ 11	0	Complies
	11n(20MHz)	1/ 11/ 149/ 165	0/1/2	Complies
	11n(40MHz)	3/ 9/ 151/ 159	0/1/2	Complies
	11ac(80MHz)	155	0/1/2	Complies
Radiated Emission Band Edge	b/g	1/ 11	0	Complies
	11n(20MHz)	1/ 11	0+1+2	Complies
	11n(40MHz)	3/ 9	0+1+2	Complies
Occupied Bandwidth	a	149/ 157/ 165	0	Complies
	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0/1/2	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0/1/2	Complies
	11ac(80MHz)	155	0/1/2	Complies
Power Density	a	149/ 157/ 165	0	Complies
	b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1+2	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1+2	Complies
	11ac(80MHz)	155	0+1+2	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 PC	DELL	DCSM	00144-531-356-513	DoC	Non-Shielded, 1.8m
2 USB Keyboard	DELL	SK-8115	1437	DoC	--
3 Mouse	Logitech	M-SBF83	HCA52200315	DoC	--
4 Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--
5 Printer	HP	C2642A	MY75N1D2Y1	DoC	Non-Shielded, 0.7m
6 Modem	ACEEX	DM-1414	980033034	DoC	Non-Shielded, 1.6m
7 Monitor	DELL	U2410f	082WXD-72872-16 R-0W2L	DoC	Non-Shielded, 1.8m
8 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
9 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
10 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
11 USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.5. Configuration of tested System



Signal Cable Type		Signal cable Description
A	RF Cable	Non-Shielded, 0.8m
B	Modem Cable	Shielded, 1.5m
C	Printer Cable	Shielded, 1.2m
D	VGA Cable	Shielded, 1.8m, two ferrite cores bonded.
E	USB Keyboard Cable	Shielded, 1.5m
F	USB Mouse Cable	Shielded, 1.5m
G	Microphone & Earphone Cable	Non-Shielded, 1.2m
H	USB 2.0 Flash Memory Cable	Non-Shielded, 0.5m
I	USB 2.0 Flash Memory Cable	Non-Shielded, 0.5m
J	USB 2.0 Flash Memory Cable	Non-Shielded, 0.5m
K	USB 2.0 Flash Memory Cable	Non-Shielded, 0.5m
L	LAN Cable	Non-Shielded, 10m

1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the Mtool Ver 1.0.0.9 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	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

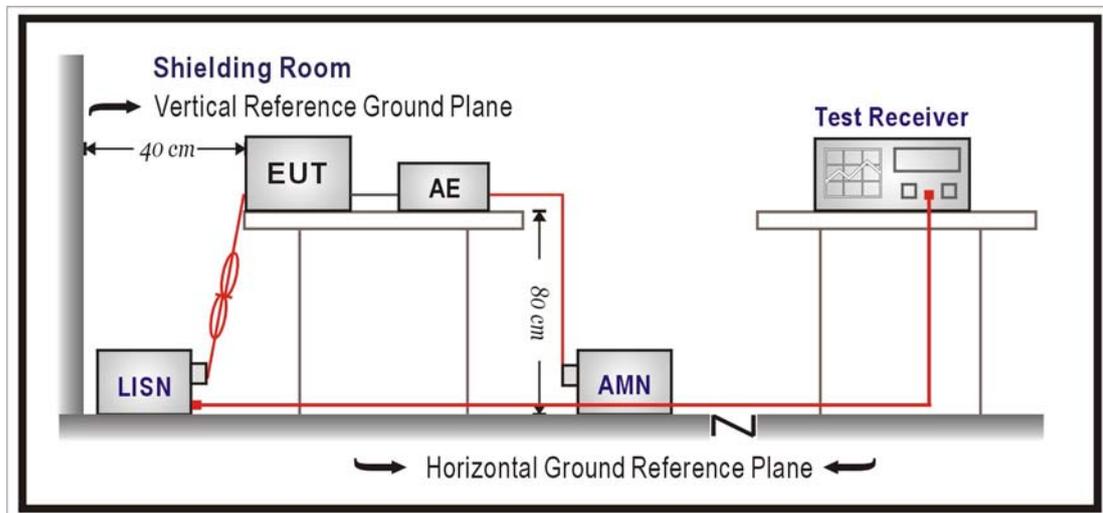
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2013/02/13
LISN	R&S	ENV216	100092	2013/08/21
Test Receiver	R&S	ESCS 30	825442/014	2013/08/07

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 Jan. 2012 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

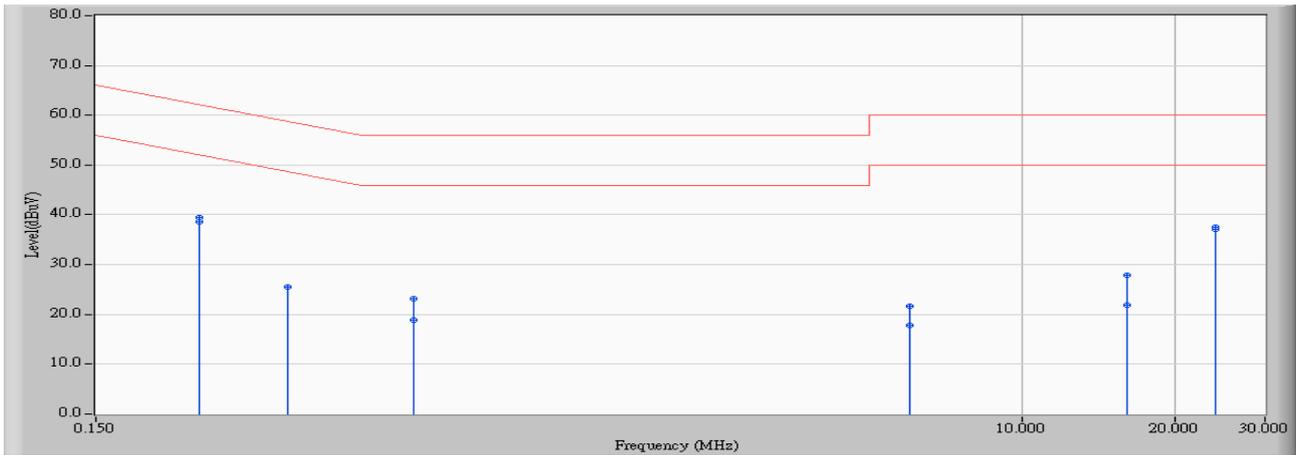
According to FCC Part 15 Subpart C Paragraph 15.207: 2011

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	Time : 2012/10/17 - 13:22
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(40M)

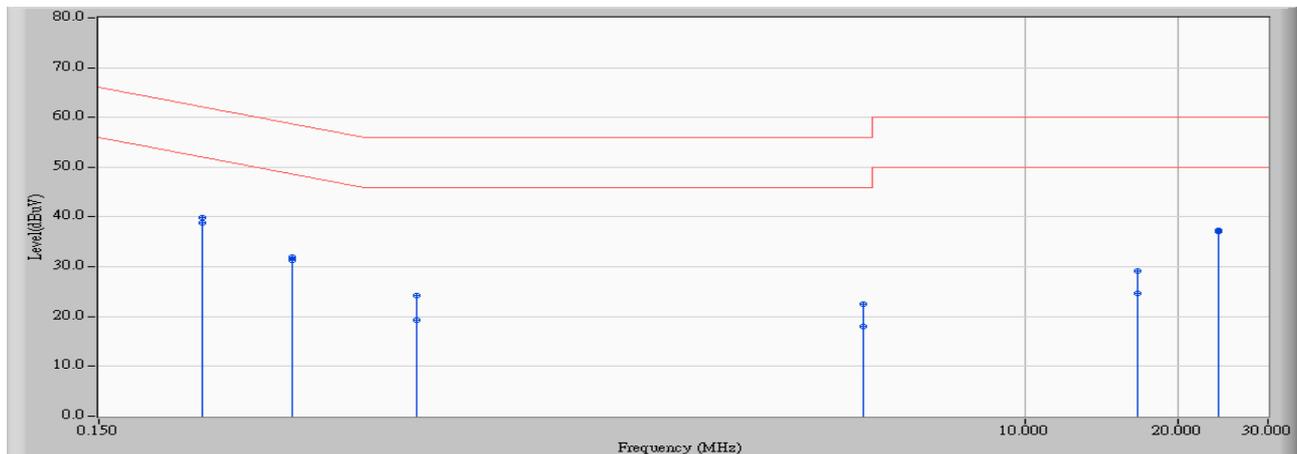


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.240	9.663	29.880	39.543	-22.559	62.102	QUASIPeAK
2	0.240	9.663	28.940	38.603	-13.499	52.102	AVERAGE
3	0.357	9.679	15.910	25.589	-33.208	58.797	QUASIPeAK
4	0.357	9.679	15.900	25.579	-23.218	48.797	AVERAGE
5	0.634	9.723	13.470	23.193	-32.807	56.000	QUASIPeAK
6	0.634	9.723	9.180	18.903	-27.097	46.000	AVERAGE
7	5.982	10.073	11.630	21.702	-38.298	60.000	QUASIPeAK
8	5.982	10.073	7.760	17.832	-32.168	50.000	AVERAGE
9	16.045	10.268	17.510	27.778	-32.222	60.000	QUASIPeAK
10	16.045	10.268	11.700	21.968	-28.032	50.000	AVERAGE
11	24.013	10.340	27.140	37.480	-22.520	60.000	QUASIPeAK
12	* 24.013	10.340	26.820	37.160	-12.840	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 : 2012/10/17 - 13:24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line2	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(40M)

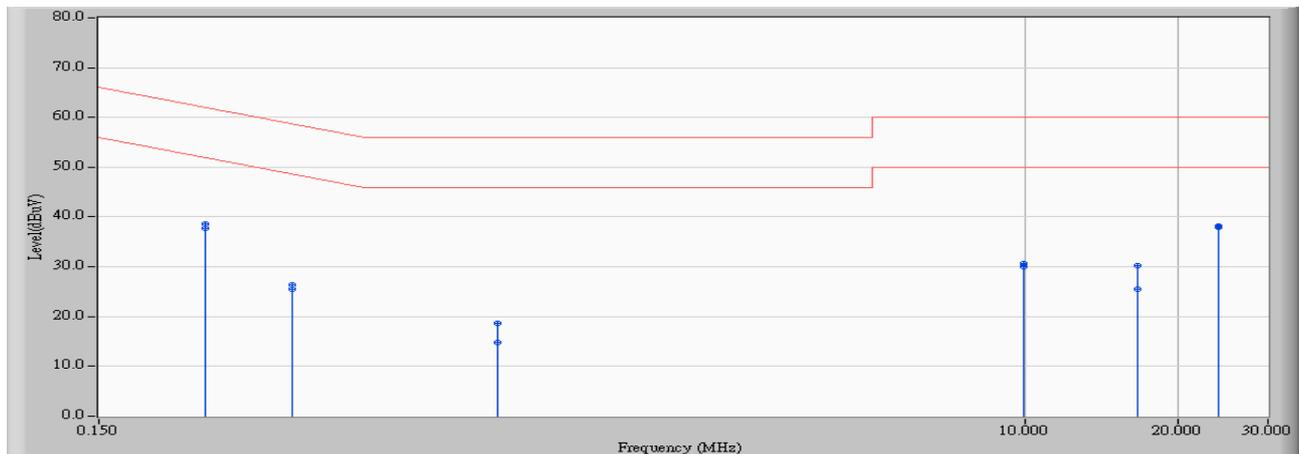


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.240	9.673	30.320	39.993	-22.109	62.102	QUASPEAK
2	0.240	9.673	29.160	38.833	-13.269	52.102	AVERAGE
3	0.361	9.690	22.340	32.030	-26.677	58.707	QUASPEAK
4	0.361	9.690	21.570	31.260	-17.447	48.707	AVERAGE
5	0.634	9.729	14.420	24.149	-31.851	56.000	QUASPEAK
6	0.634	9.729	9.570	19.299	-26.701	46.000	AVERAGE
7	4.787	10.074	12.470	22.544	-33.456	56.000	QUASPEAK
8	4.787	10.074	7.970	18.044	-27.956	46.000	AVERAGE
9	16.603	10.415	18.750	29.165	-30.835	60.000	QUASPEAK
10	16.603	10.415	14.210	24.625	-25.375	50.000	AVERAGE
11	24.013	10.574	26.760	37.334	-22.666	60.000	QUASPEAK
12	* 24.013	10.574	26.540	37.114	-12.886	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 : 2012/10/17 - 13:38
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz,802.11ac(80M)

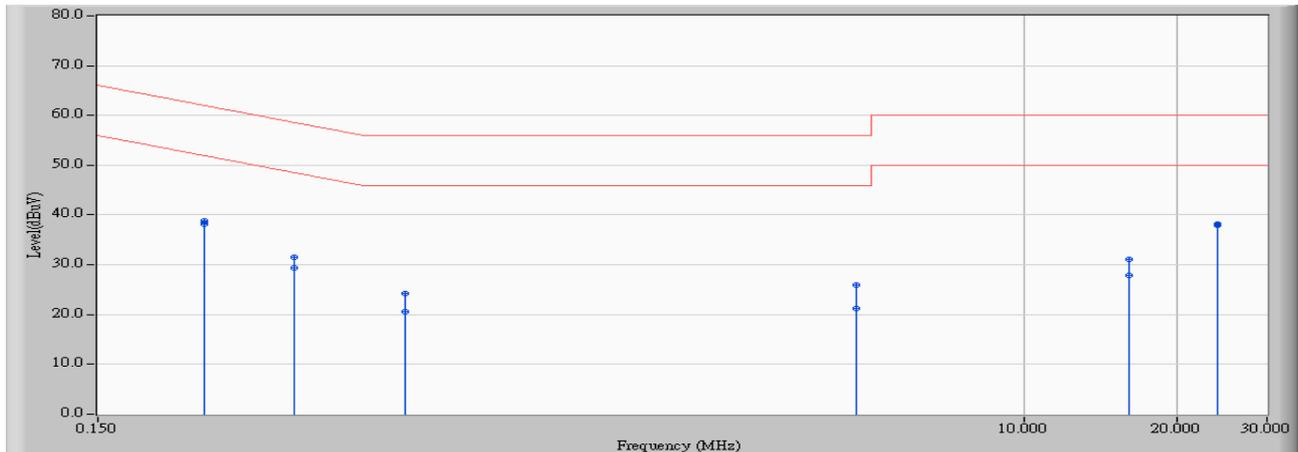


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.244	9.663	28.880	38.543	-23.424	61.967	QUASPEAK
2	0.244	9.663	28.090	37.753	-14.214	51.967	AVERAGE
3	0.361	9.680	16.780	26.460	-32.247	58.707	QUASPEAK
4	0.361	9.680	15.780	25.460	-23.247	48.707	AVERAGE
5	0.916	9.767	8.890	18.657	-37.343	56.000	QUASPEAK
6	0.916	9.767	4.960	14.727	-31.273	46.000	AVERAGE
7	9.927	10.129	20.490	30.619	-29.381	60.000	QUASPEAK
8	9.927	10.129	19.860	29.989	-20.011	50.000	AVERAGE
9	16.584	10.273	19.940	30.213	-29.787	60.000	QUASPEAK
10	16.584	10.273	15.210	25.483	-24.517	50.000	AVERAGE
11	24.009	10.340	27.810	38.150	-21.850	60.000	QUASPEAK
12	* 24.009	10.340	27.520	37.860	-12.140	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 : 2012/10/17 - 13:40
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line2	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz,802.11ac(80M)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.244	9.673	29.240	38.913	-23.054	61.967	QUASIPeAK
2	0.244	9.673	28.410	38.083	-13.884	51.967	AVERAGE
3	0.365	9.691	21.810	31.501	-27.117	58.617	QUASIPeAK
4	0.365	9.691	19.660	29.351	-19.267	48.617	AVERAGE
5	0.603	9.724	14.500	24.224	-31.776	56.000	QUASIPeAK
6	0.603	9.724	10.880	20.604	-25.396	46.000	AVERAGE
7	4.677	10.068	15.820	25.888	-30.112	56.000	QUASIPeAK
8	4.677	10.068	11.260	21.328	-24.672	46.000	AVERAGE
9	16.103	10.401	20.630	31.031	-28.969	60.000	QUASIPeAK
10	16.103	10.401	17.380	27.781	-22.219	50.000	AVERAGE
11	24.009	10.574	27.650	38.224	-21.776	60.000	QUASIPeAK
12	* 24.009	10.574	27.300	37.874	-12.126	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

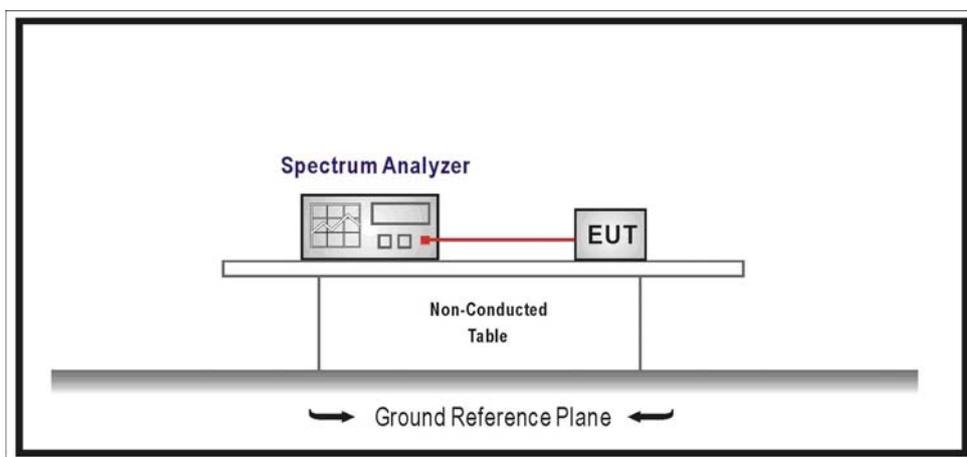
The following test equipments are used during the test:

Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
EXA Signal Analyzer	Agilent	N9010A-EXA	US47140172	2013/07/31

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

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure of Jan. 2012 KDB558074, Section 5.2.1.2 Measurement Procedure PK2 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: 2011

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	28.08	1Watt= 30 dBm	Pass
6	2437	28.71	1Watt= 30 dBm	Pass
11	2462	28.11	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	28.08	--	--	-	1Watt= 30 dBm
6	2437	28.71	28.68	28.65	28.62	1Watt= 30 dBm
11	2462	28.11	--	--	-	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss

Channel 6

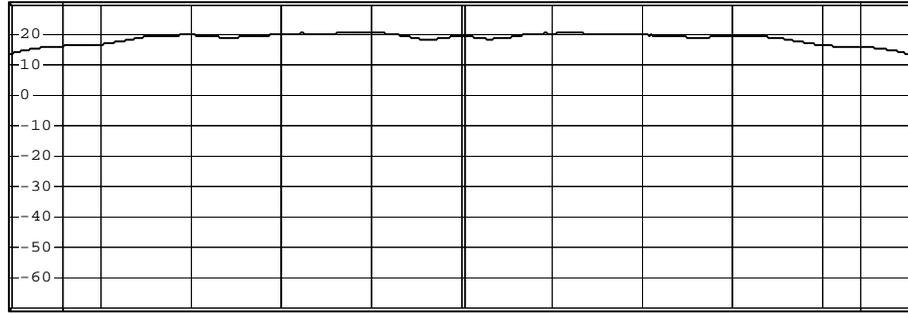


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.437 GHz

1.2 MHz/

Span 12 MHz

Tx Channel

Bandwidth

10.6 MHz

Power

28.71 dBm

Comment: A:\2

Date: 15.OCT.2012 11:33:22

Channel 11

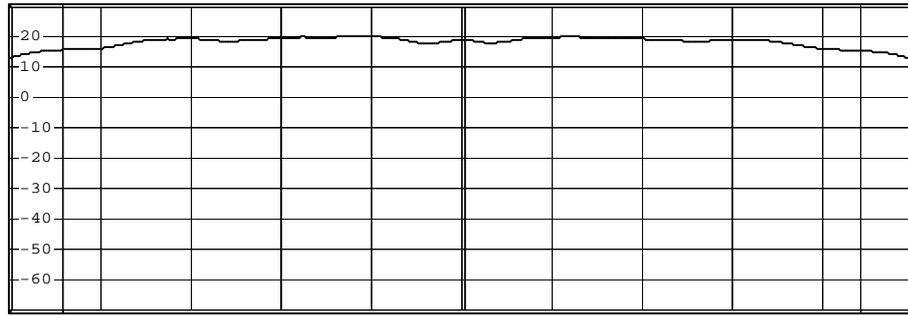


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.462 GHz

1.2 MHz/

Span 12 MHz

Tx Channel

Bandwidth

10.6 MHz

Power

28.11 dBm

Comment: A:\2

Date: 15.OCT.2012 11:34:38

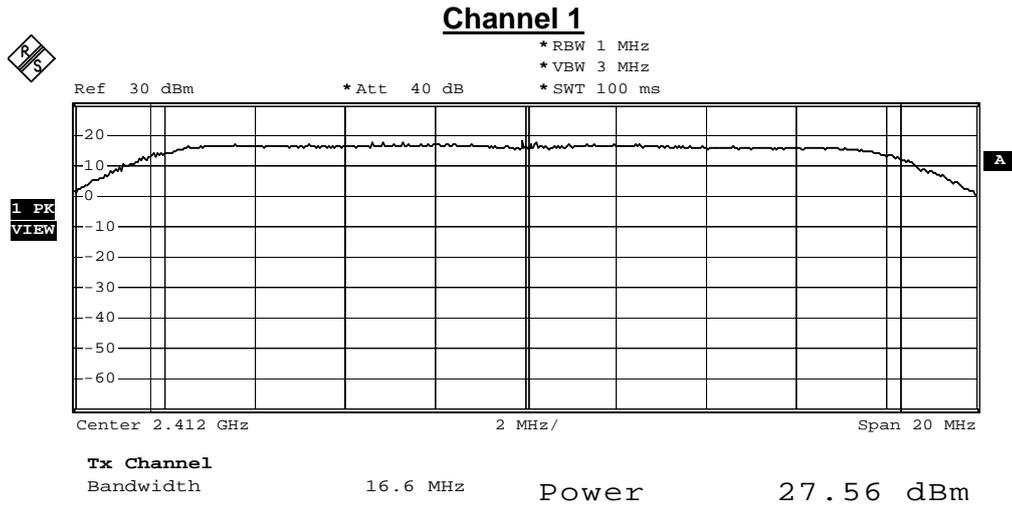
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	27.56	1Watt= 30 dBm	Pass
6	2437	29.17	1Watt= 30 dBm	Pass
11	2462	25.41	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	27.56	--	--	-	--	--	-	1Watt= 30 dBm
6	2437	29.17	29.16	29.11	29.10	29.07	29.05	29.01	1Watt= 30 dBm
11	2462	25.41	--	--	-	--	--	-	1Watt= 30 dBm

Note: Measure Level =Reading value + cable loss



Comment: A:\2
Date: 15.OCT.2012 11:30:52

Channel 6

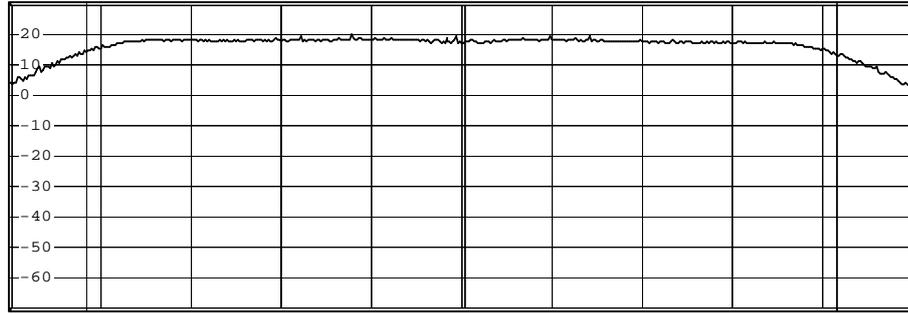


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.437 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

16.6 MHz

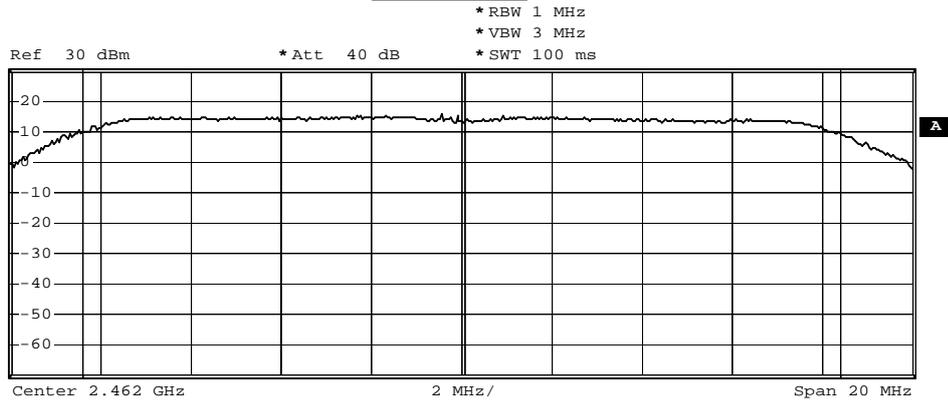
Power

29.17 dBm

Comment: A:\2

Date: 15.OCT.2012 11:24:38

Channel 11



Tx Channel
Bandwidth 16.8 MHz Power 25.41 dBm

Comment: A:\2
Date: 15.OCT.2012 11:30:17

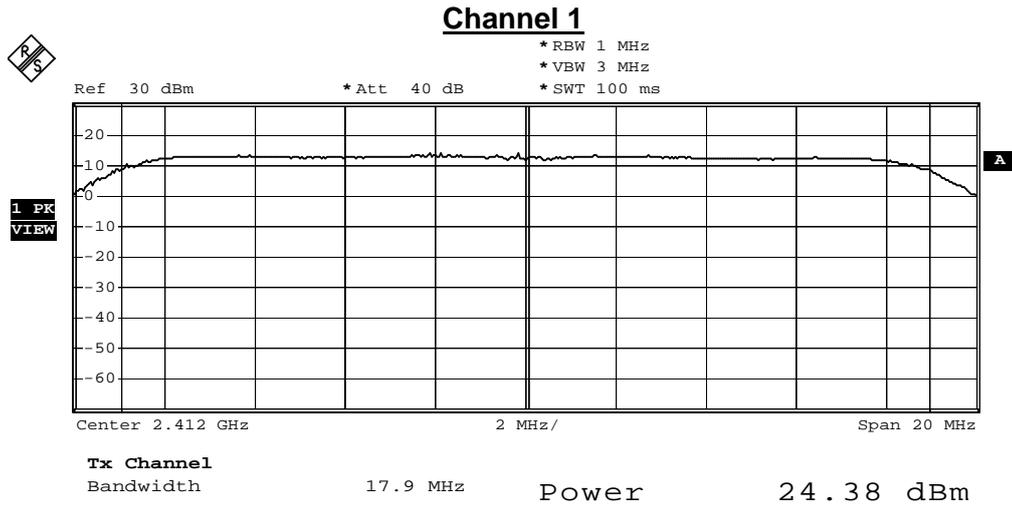
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.38	1Watt= 30 dBm	Pass
6	2437	23.96	1Watt= 30 dBm	Pass
11	2462	23.89	1Watt= 30 dBm	Pass

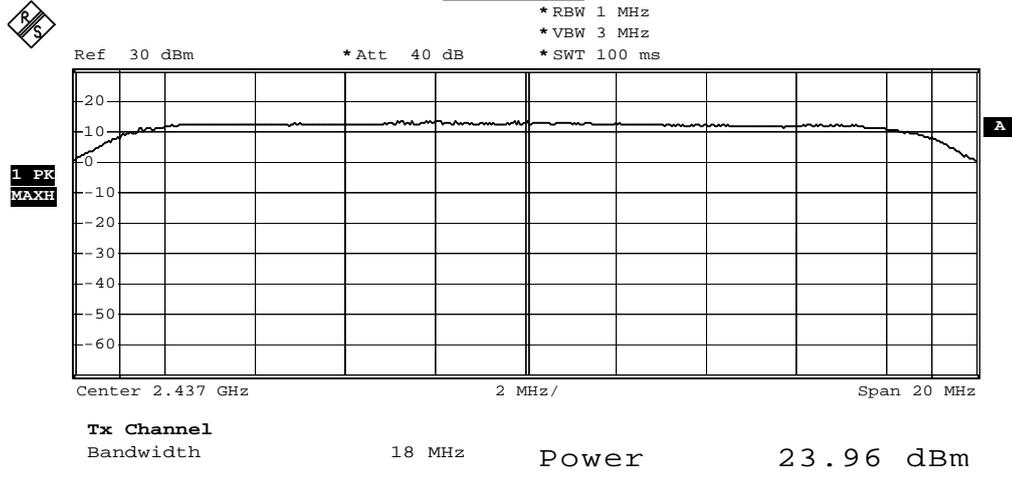
The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	24.38	--	--	-	--	--	-	--	30dBm
6	2437	23.96	23.95	23.92	23.91	23.88	23.85	23.82	23.80	30dBm
11	2462	23.89	--	--	-	--	--	-	--	30dBm



Comment: A:\2
Date: 15.OCT.2012 11:44:59

Channel 6



Comment: A:\2
Date: 15.OCT.2012 13:35:30

Channel 11

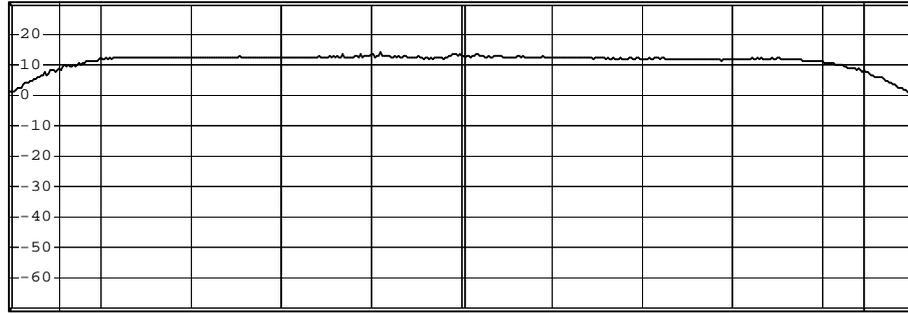


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Tx Channel

Bandwidth

17.8 MHz

Power

23.89 dBm

Comment: A:\2

Date: 15.OCT.2012 13:40:21

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.33	1Watt= 30 dBm	Pass
6	2437	24.08	1Watt= 30 dBm	Pass
11	2462	23.71	1Watt= 30 dBm	Pass

The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	24.33	--	--	-	--	--	-	--	30dBm
6	2437	24.08	24.05	24.02	24.01	23.99	23.97	23.95	23.91	30dBm
11	2462	23.71	--	--	-	--	--	-	--	30dBm

Channel 6

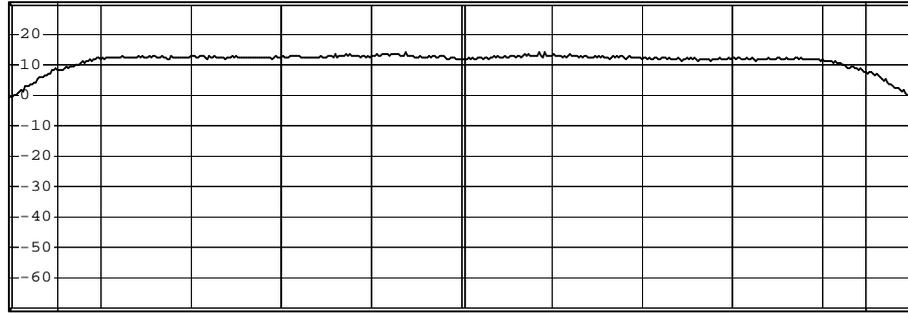


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.437 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

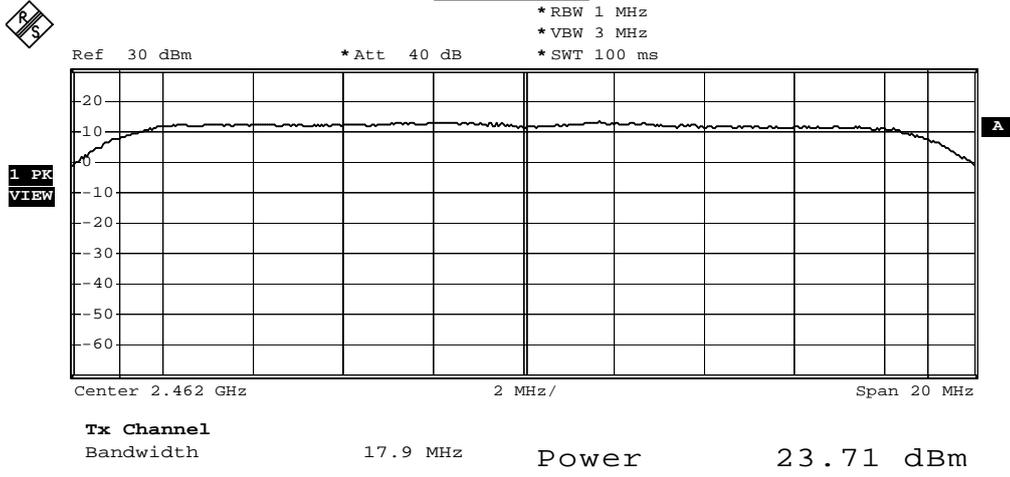
Power

24.08 dBm

Comment: A:\2

Date: 15.OCT.2012 12:04:18

Channel 11



Comment: A:\2
Date: 15.OCT.2012 13:44:10

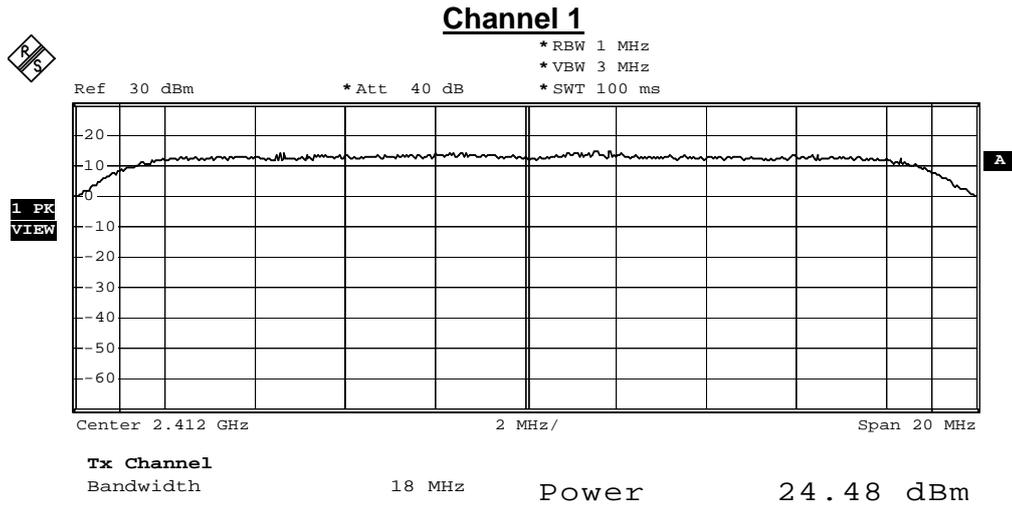
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n 20MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.48	1Watt= 30 dBm	Pass
6	2437	24.01	1Watt= 30 dBm	Pass
11	2462	23.66	1Watt= 30 dBm	Pass

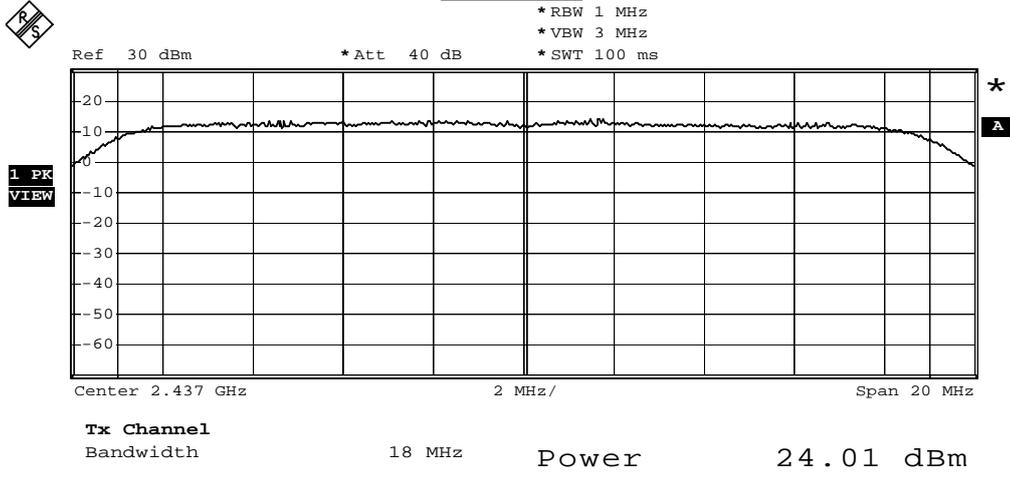
The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	24.48	--	--	-	--	--	-	--	30dBm
6	2437	24.01	24.00	24.97	24.95	24.92	24.90	24.87	24.82	30dBm
11	2462	23.66	--	--	-	--	--	-	--	30dBm



Comment: A:\2
Date: 15.OCT.2012 11:58:40

Channel 6



Comment: A:\2
Date: 15.OCT.2012 12:02:04

Channel 11

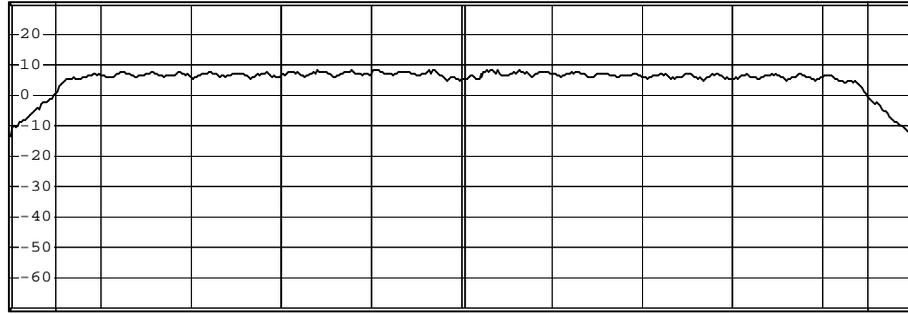


* RBW 300 kHz
* VBW 1 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.462 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

18 MHz

Power

23.66 dBm

Comment: A:\2

Date: 15.OCT.2012 13:50:50

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	29.17	1Watt= 30 dBm	Pass
6	2437	28.79	1Watt= 30 dBm	Pass
11	2462	28.53	1Watt= 30 dBm	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	23.45	1Watt= 30 dBm	Pass
6	2437	23.50	1Watt= 30 dBm	Pass
9	2452	23.65	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	23.45	--	--	-	--	--	-	--	30dBm
6	2437	23.50	23.48	23.44	23.41	23.40	23.38	23.34	23.31	30dBm
9	2452	23.65	--	--	-	--	--	-	--	30dBm

Channel 3

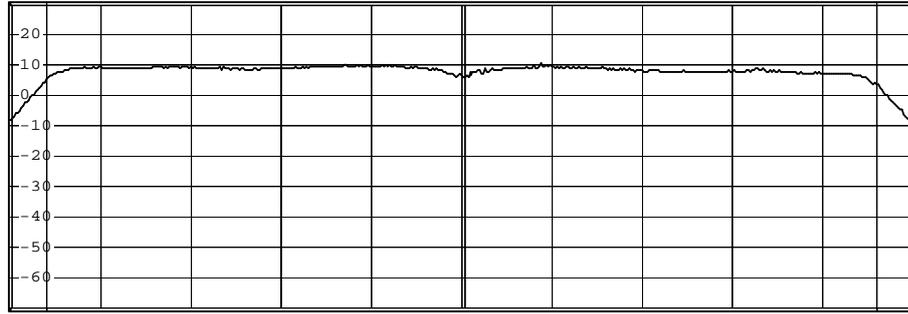


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.422 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

36.8 MHz

Power

23.45 dBm

Comment: A:\2

Date: 15.OCT.2012 14:13:54

Channel 6

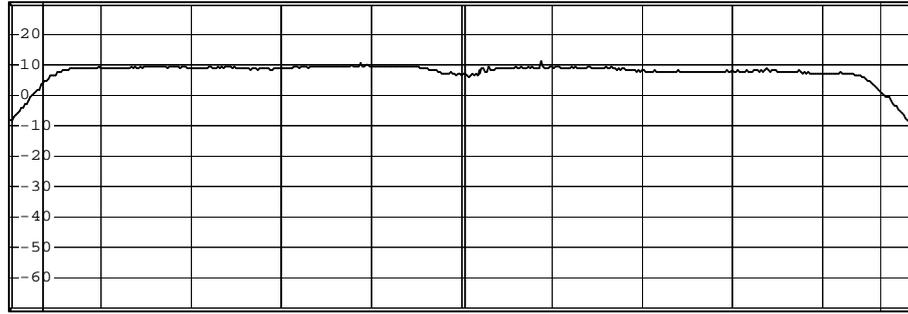


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.437 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

37 MHz

Power

23.50 dBm

Comment: A:\2

Date: 15.OCT.2012 15:02:17

Channel 9

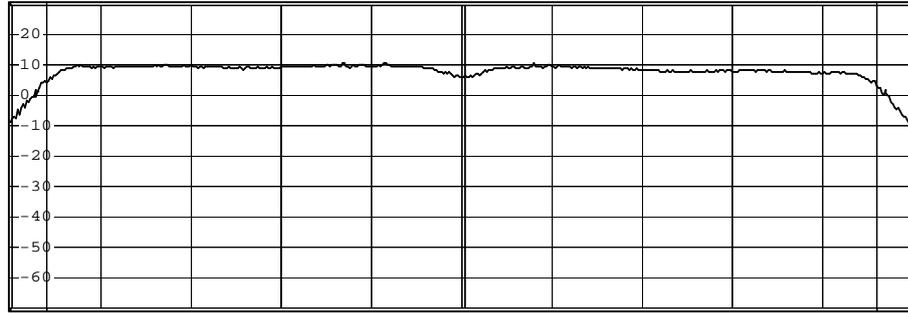


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.452 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

36.8 MHz

Power

23.65 dBm

Comment: A:\2

Date: 15.OCT.2012 15:27:54

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	23.69	1Watt= 30 dBm	Pass
6	2437	23.72	1Watt= 30 dBm	Pass
9	2452	23.42	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	23.69	--	--	-	--	--	-	--	30dBm
6	2437	23.72	23.71	23.68	23.64	23.63	23.61	23.58	23.57	30dBm
9	2452	23.42	--	--	-	--	--	-	--	30dBm

Channel 3

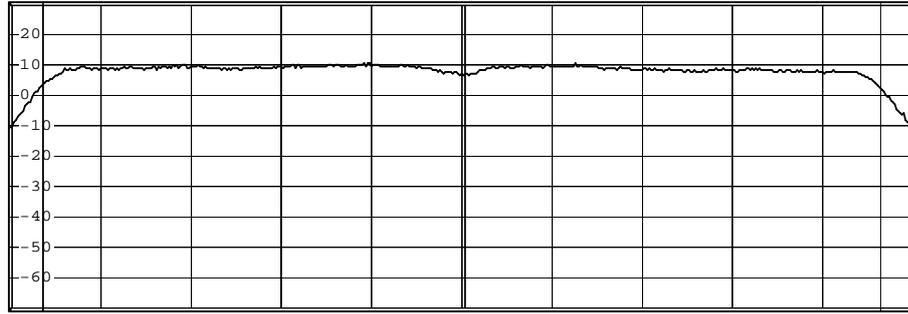


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
MAXH



Center 2.422 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

37 MHz

Power

23.69 dBm

Comment: A:\2

Date: 15.OCT.2012 14:17:17

Channel 6

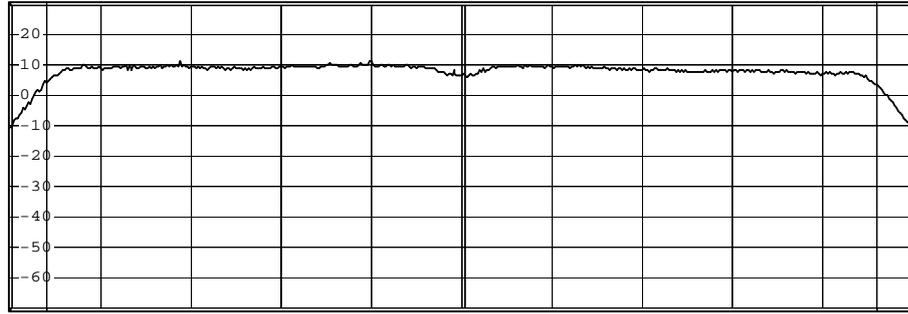


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.437 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

36.8 MHz

Power

23.72 dBm

Comment: A:\2

Date: 15.OCT.2012 14:59:46

Channel 9

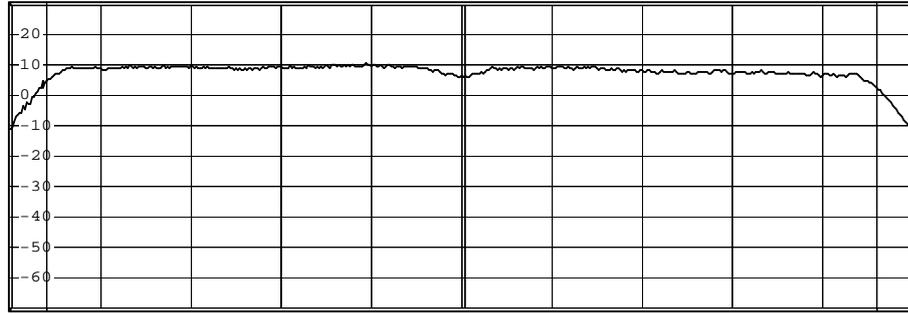


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.452 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

36.8 MHz

Power

23.42 dBm

Comment: A:\2

Date: 15.OCT.2012 15:30:36

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	23.60	1Watt= 30 dBm	Pass
6	2437	23.57	1Watt= 30 dBm	Pass
9	2452	23.55	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	23.60	--	--	-	--	--	-	--	30dBm
6	2437	23.57	23.55	23.51	23.49	23.47	23.42	23.41	23.40	30dBm
9	2452	23.55	--	--	-	--	--	-	--	30dBm

Channel 3

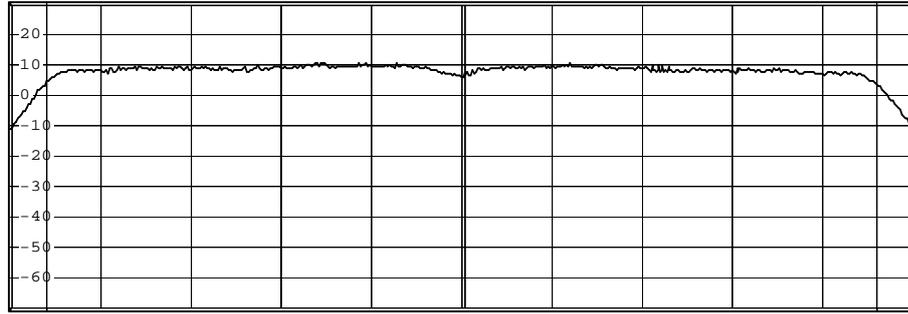


* RBW 1 MHz
* VBW 3 MHz
* SWT 100 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 2.422 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

36.8 MHz

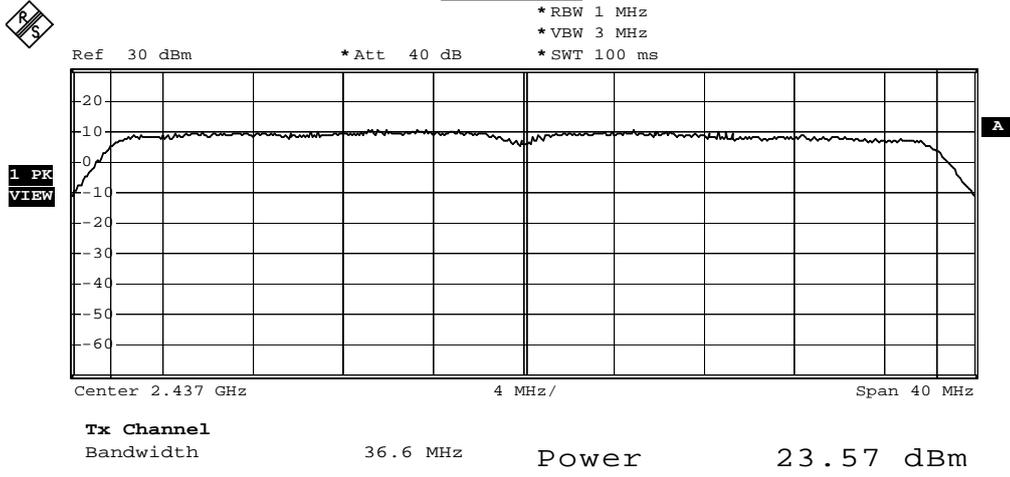
Power

23.60 dBm

Comment: A:\2

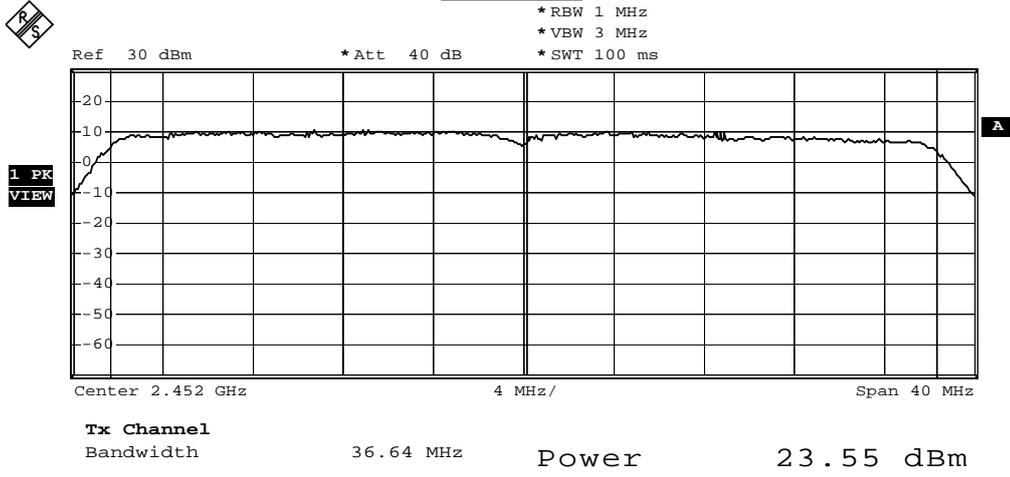
Date: 15.OCT.2012 14:21:24

Channel 6



Comment: A:\2
Date: 15.OCT.2012 14:28:47

Channel 9



Comment: A:\2
Date: 15.OCT.2012 15:34:54

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	28.35	1Watt= 30 dBm	Pass
6	2437	28.37	1Watt= 30 dBm	Pass
9	2452	28.31	1Watt= 30 dBm	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	29.06	1Watt= 30 dBm	Pass
157	5785	29.17	1Watt= 30 dBm	Pass
165	5825	29.27	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	29.06	--	--	--	--	--	--	1Watt= 30 dBm
157	5785	29.17	29.16	29.12	29.10	29.05	29.04	29.01	1Watt= 30 dBm
165	5825	29.27	--	--	--	--	--	--	1Watt= 30 dBm

Channel 149

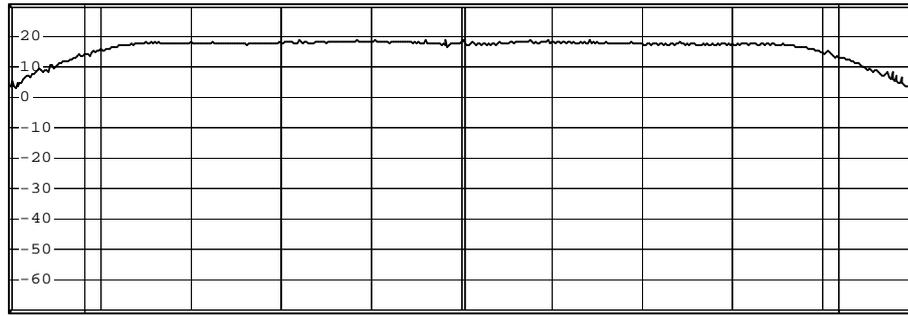


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.745 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

16.7 MHz

Power

29.06 dBm

Comment: A:\2

Date: 16.OCT.2012 10:08:39

Channel 157



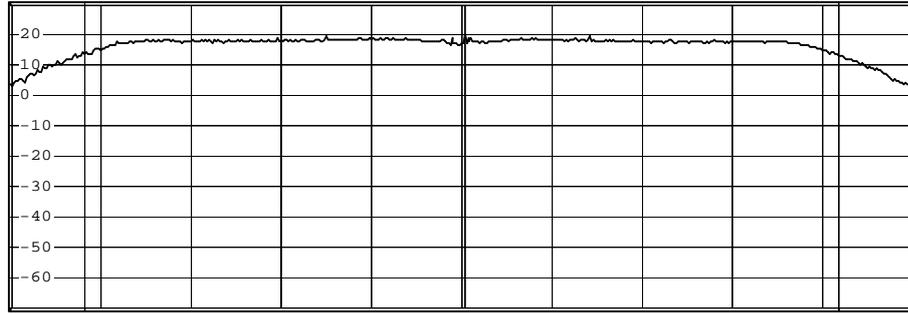
* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

SWT 20 ms

1 PK
VIEW



Center 5.785 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

16.7 MHz

Power

29.17 dBm

Comment: A:\2

Date: 16.OCT.2012 10:10:16

Channel 165



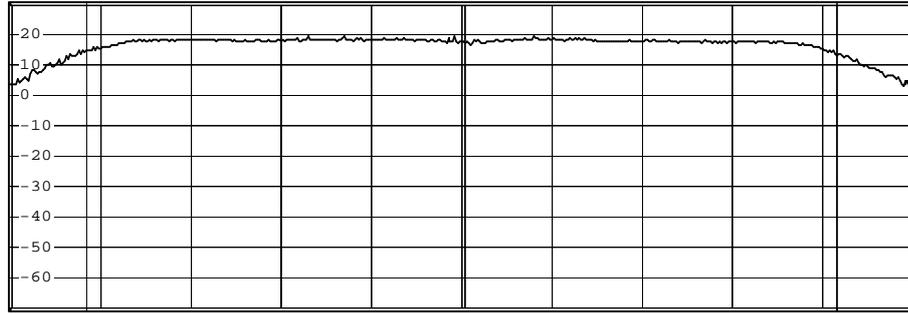
* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

SWT 20 ms

1 PK
VIEW



Center 5.825 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

16.6 MHz

Power

29.27 dBm

Comment: A:\2

Date: 16.OCT.2012 10:13:00

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.00	1Watt= 30 dBm	Pass
157	5785	24.05	1Watt= 30 dBm	Pass
165	5825	24.14	1Watt= 30 dBm	Pass

The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
149	5745	24.00	--	--	--	--	--	--	--	30dBm
157	5785	24.05	24.01	24.00	23.97	23.95	23.92	23.91	23.88	30dBm
165	5825	24.14	--	--	--	--	--	--	--	30dBm

Channel 149

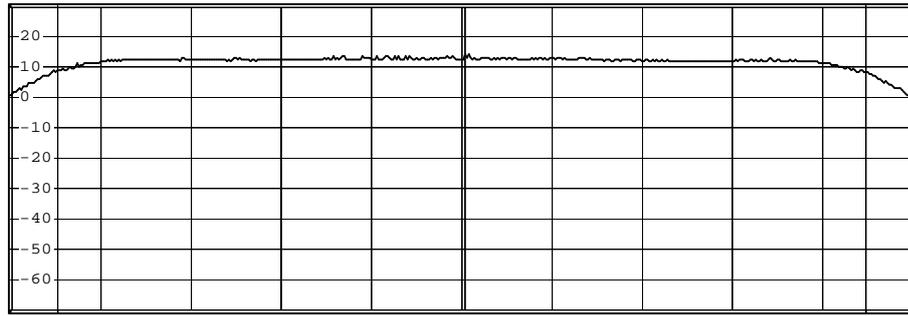


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.745 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

Power

24.00 dBm

Comment: A:\2

Date: 16.OCT.2012 11:00:19

Channel 157



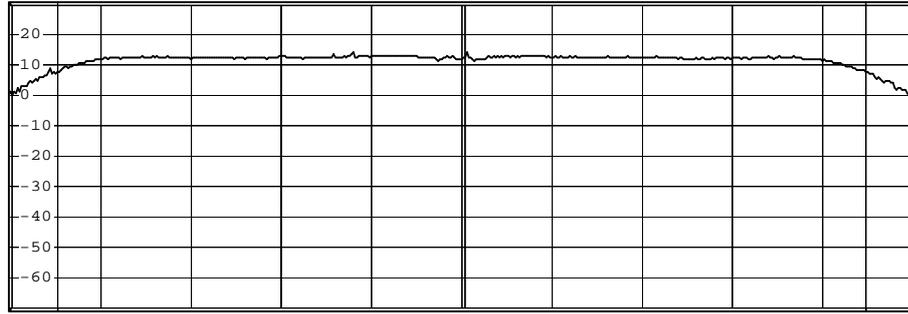
* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

SWT 20 ms

1 PK
VIEW



Center 5.785 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

Power

24.05 dBm

Comment: A:\2

Date: 16.OCT.2012 10:51:37

Channel 165

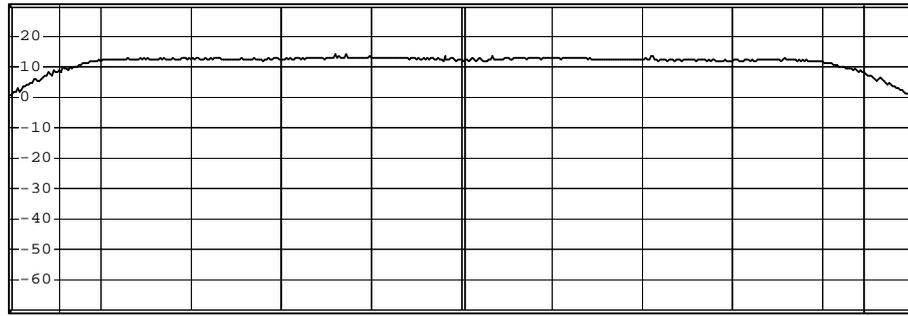


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.825 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.8 MHz

Power

24.14 dBm

Comment: A:\2

Date: 16.OCT.2012 10:20:05

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.09	1Watt= 30 dBm	Pass
157	5785	24.13	1Watt= 30 dBm	Pass
165	5825	24.11	1Watt= 30 dBm	Pass

The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
149	5745	24.09	--	--	--	--	--	--	--	30dBm
157	5785	24.13	24.11	24.05	24.03	24.01	24.00	23.97	23.92	30dBm
165	5825	24.11	--	--	--	--	--	--	--	30dBm

Channel 149



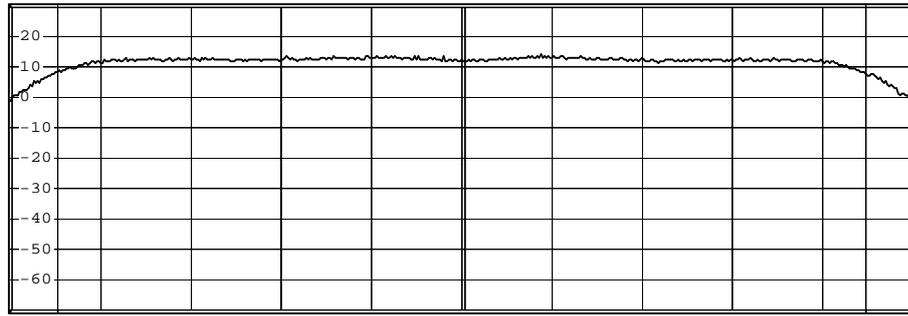
* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

SWT 20 ms

1 PK
VIEW



Center 5.745 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

Power

24.09 dBm

Comment: A:\2

Date: 16.OCT.2012 11:05:59

Channel 157

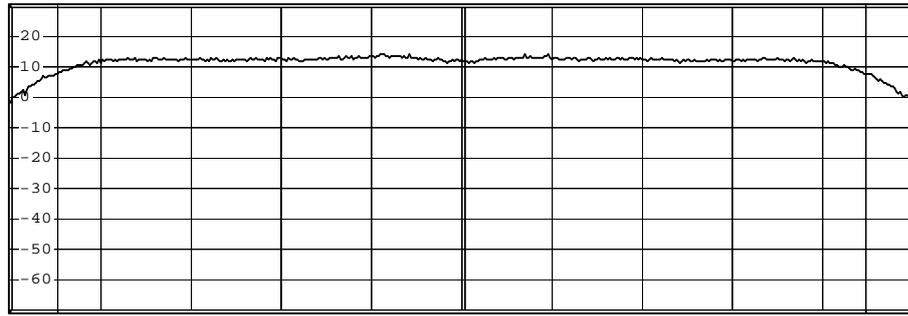


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.785 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

Power

24.13 dBm

Comment: A:\2

Date: 16.OCT.2012 10:47:29

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n 20MHz (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.16	1Watt= 30 dBm	Pass
157	5785	24.19	1Watt= 30 dBm	Pass
165	5825	24.08	1Watt= 30 dBm	Pass

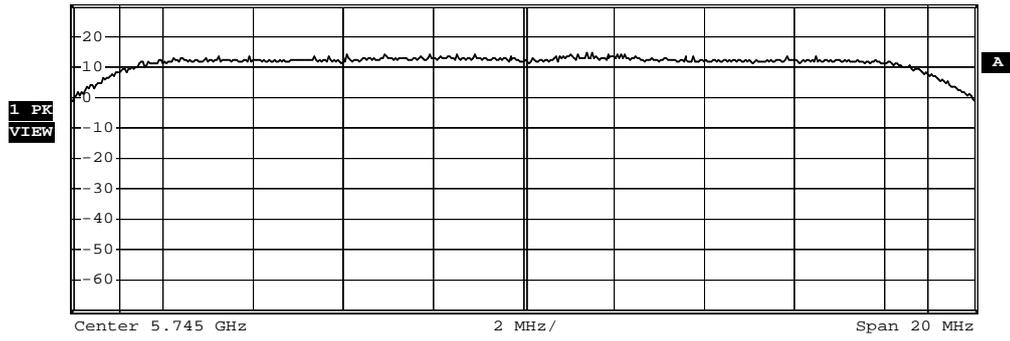
The worst emission of data rate is 19.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
149	5745	24.16	--	--	--	--	--	--	--	30dBm
157	5785	24.19	24.17	24.14	24.13	24.08	24.04	24.01	24.00	30dBm
165	5825	24.08	--	--	--	--	--	--	--	30dBm

Channel 149



Ref 30 dBm *Att 40 dB *RBW 1 MHz
*VBW 3 MHz
SWT 20 ms



Tx Channel
Bandwidth 17.9 MHz Power 24.16 dBm

Comment: A:\2
Date: 16.OCT.2012 11:10:44

Channel 165

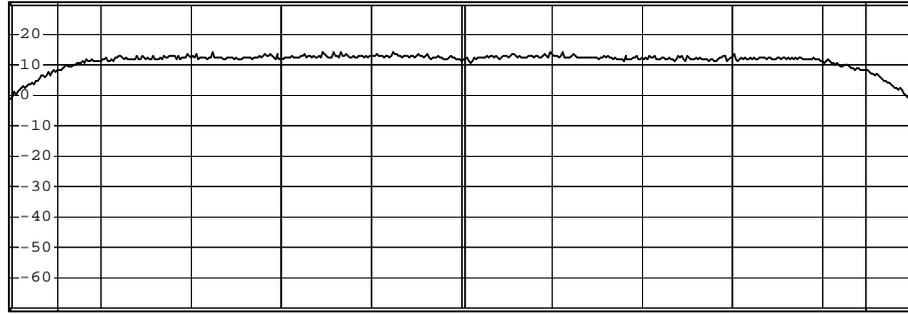


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.825 GHz

2 MHz/

Span 20 MHz

Tx Channel

Bandwidth

17.9 MHz

Power

24.08 dBm

Comment: A:\2

Date: 16.OCT.2012 10:35:20

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	28.86	≤ 30	Pass
157	5785	28.89	≤ 30	Pass
165	5825	28.88	≤ 30	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	24.05	1Watt= 30 dBm	Pass
159	5795	24.08	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
151	5755	24.05	24.03	24.01	23.97	23.95	23.92	23.91	23.87	30dBm
159	5795	24.08	--	--	--	--	--	--	--	30dBm

Channel 151

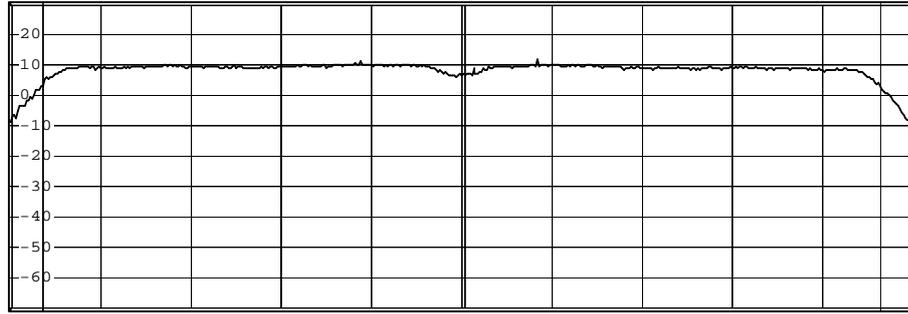


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.755 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

37 MHz

Power

24.05 dBm

Comment: A:\2

Date: 16.OCT.2012 11:50:11

Channel 159

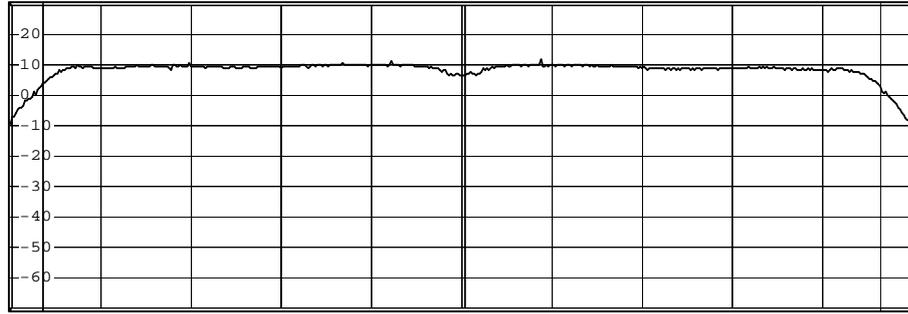


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.795 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

37 MHz

Power

24.08 dBm

Comment: A:\2

Date: 16.OCT.2012 12:03:09

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	24.03	1Watt= 30 dBm	Pass
159	5795	24.08	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
151	5755	24.03	24.01	23.97	23.95	23.94	23.91	23.90	23.87	30dBm
159	5795	24.08	--	--	--	--	--	--	--	30dBm

Channel 151

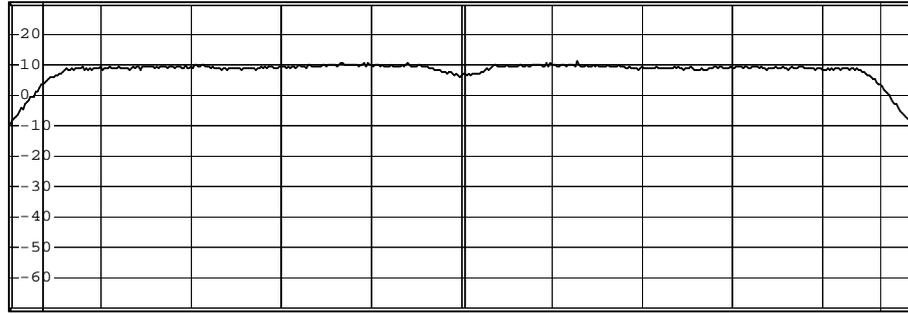


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

1 PK
VIEW



Center 5.755 GHz

4 MHz/

Span 40 MHz

Tx Channel

Bandwidth

37 MHz

Power

24.03 dBm

Comment: A:\2

Date: 16.OCT.2012 11:47:54

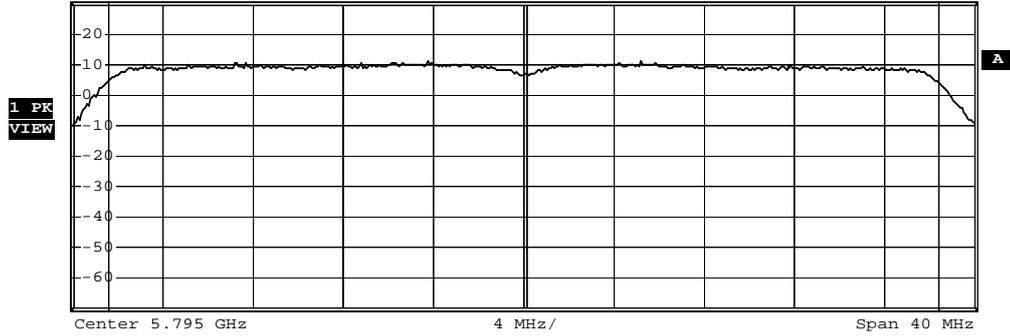
Channel 159



* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB



Tx Channel

Bandwidth

36.8 MHz

Power

24.08 dBm

Comment: A:\2

Date: 16.OCT.2012 12:01:16

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	24.10	1Watt= 30 dBm	Pass
159	5795	24.01	1Watt= 30 dBm	Pass

The worst emission of data rate is 40.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
151	5755	24.10	24.05	24.01	23.97	23.96	23.94	23.92	23.91	30dBm
159	5795	24.01	--	--	--	--	--	--	--	30dBm

Channel 151

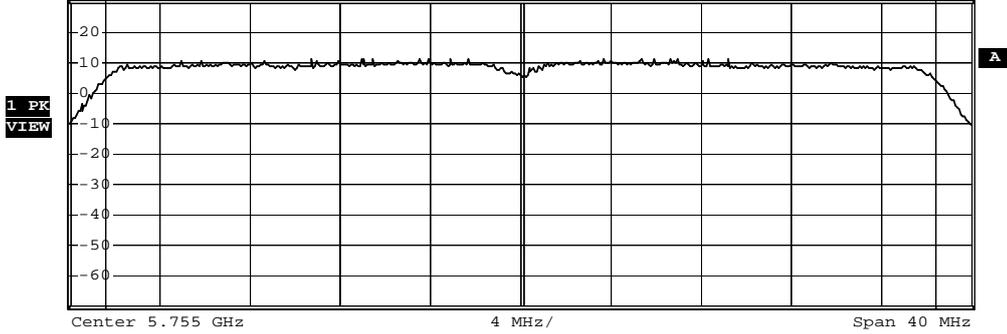


* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB

SWT 20 ms



Tx Channel

Bandwidth

36.8 MHz

Power

24.10 dBm

Comment: A:\2

Date: 16.OCT.2012 11:55:19

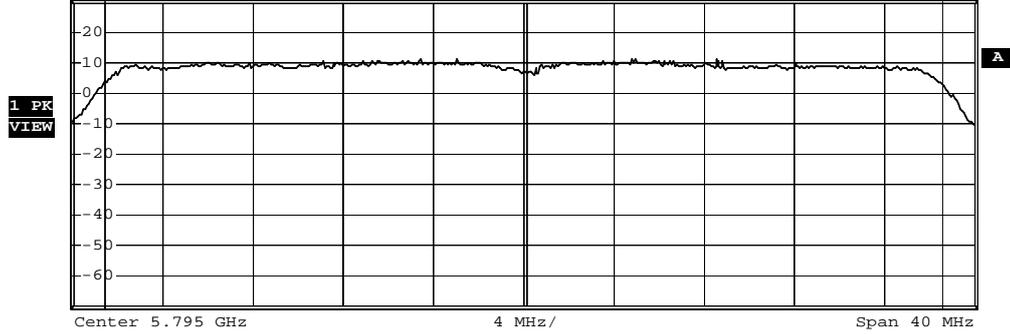
Channel 159



* RBW 1 MHz
* VBW 3 MHz
SWT 20 ms

Ref 30 dBm

* Att 40 dB



Tx Channel

Bandwidth

37 MHz

Power

24.01 dBm

Comment: A:\2

Date: 16.OCT.2012 11:59:07

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	28.83	1Watt= 30 dBm	Pass
159	5795	28.83	1Watt= 30 dBm	Pass

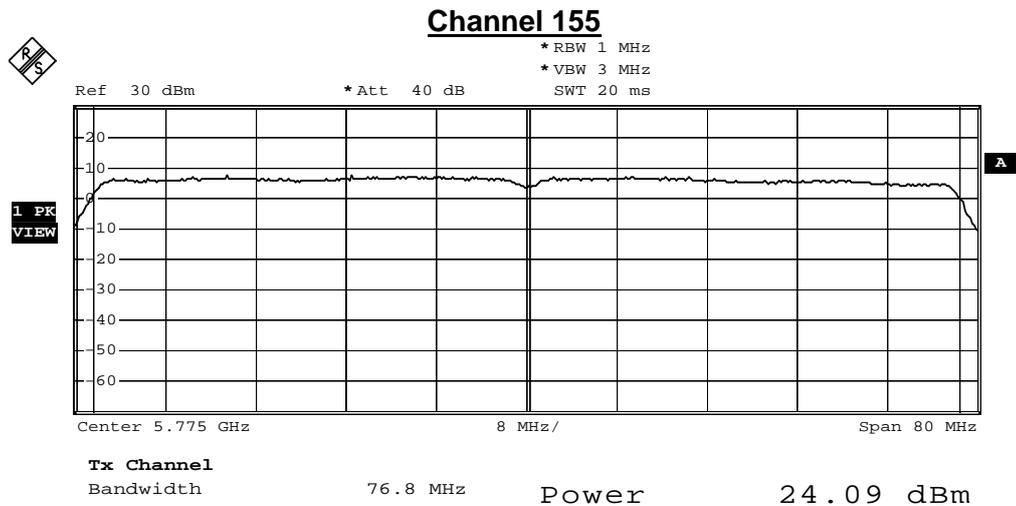
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	24.09	1Watt= 30 dBm	Pass

The worst emission of data rate is 87.9 Mbps.

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										Required Limit
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170	
155	5775	24.09	24.05	24.03	24.01	23.96	23.94	23.92	23.90	23.89	23.84	30 dBm



Comment: A:\2
Date: 16.OCT.2012 13:21:51

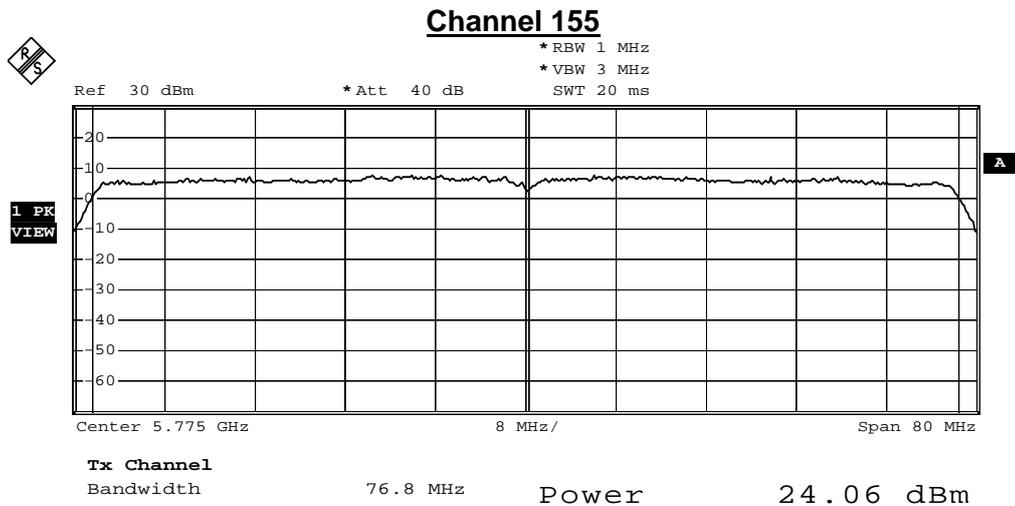
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	24.06	1Watt= 30 dBm	Pass

The worst emission of data rate is 87.9 Mbps.

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										Required Limit
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170	
155	5775	24.06	24.05	24.02	24.01	23.97	23.92	23.91	23.87	23.85	23.81	30 dBm



Comment: A:\2
Date: 16.OCT.2012 13:24:04

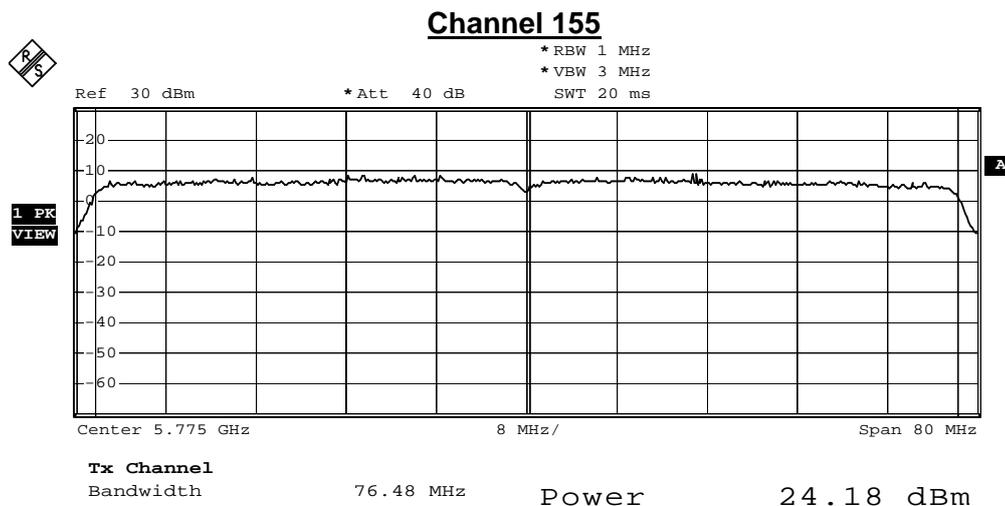
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac 80MHz (ANT2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	24.18	1Watt= 30 dBm	Pass

The worst emission of data rate is 87.9 Mbps.

Peak Power Output (dBm)												
MCS Index	0	1	2	3	4	5	6	7	8	9	Required Limit	
Channel No	Frequency (MHz)	Data Rate										Required Limit
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170	
155	5775	24.18	24.17	24.15	24.14	24.12	24.08	24.07	24.02	23.97	23.92	30 dBm



Comment: A:\2
Date: 16.OCT.2012 13:28:42

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	28.88	1Watt= 30 dBm	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

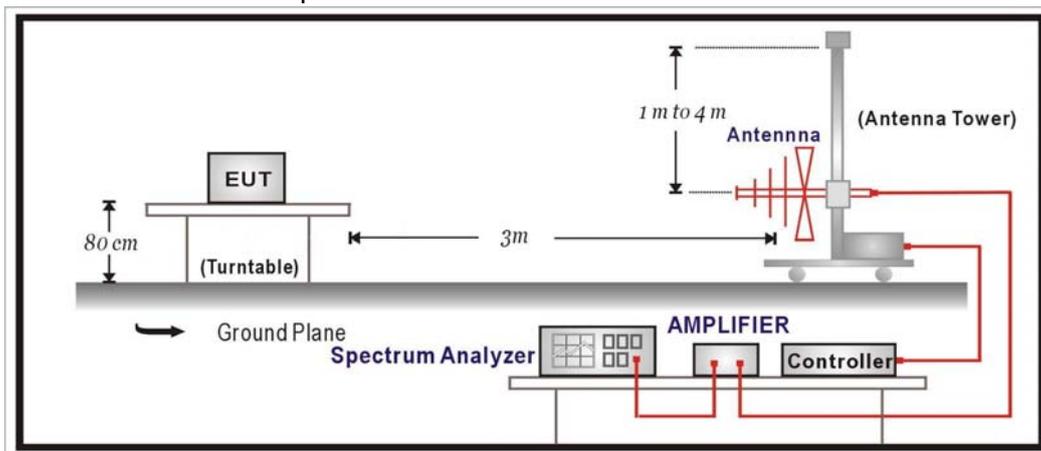
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2013/03/01
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

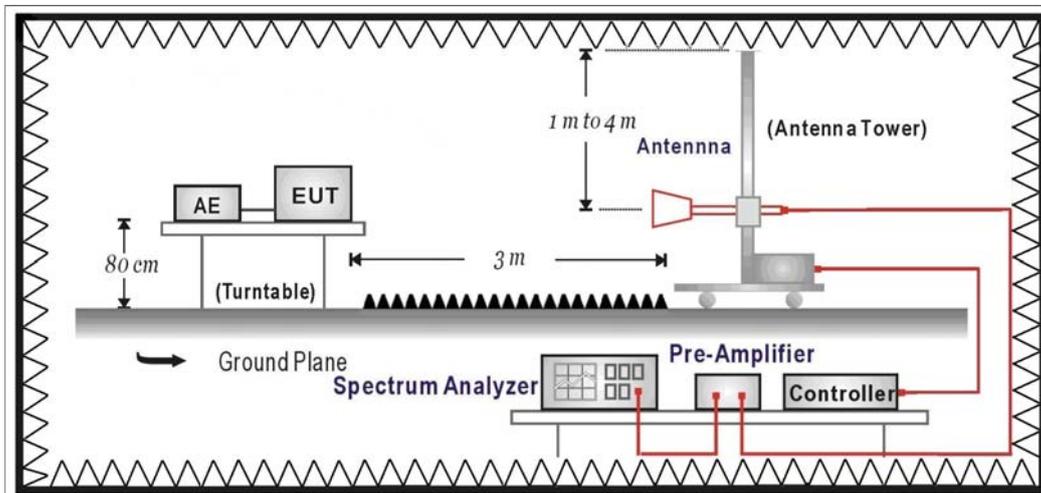
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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	uV/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 Jan. 2012 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 15.247: 2011

4.6. Uncertainty

The measurement uncertainty

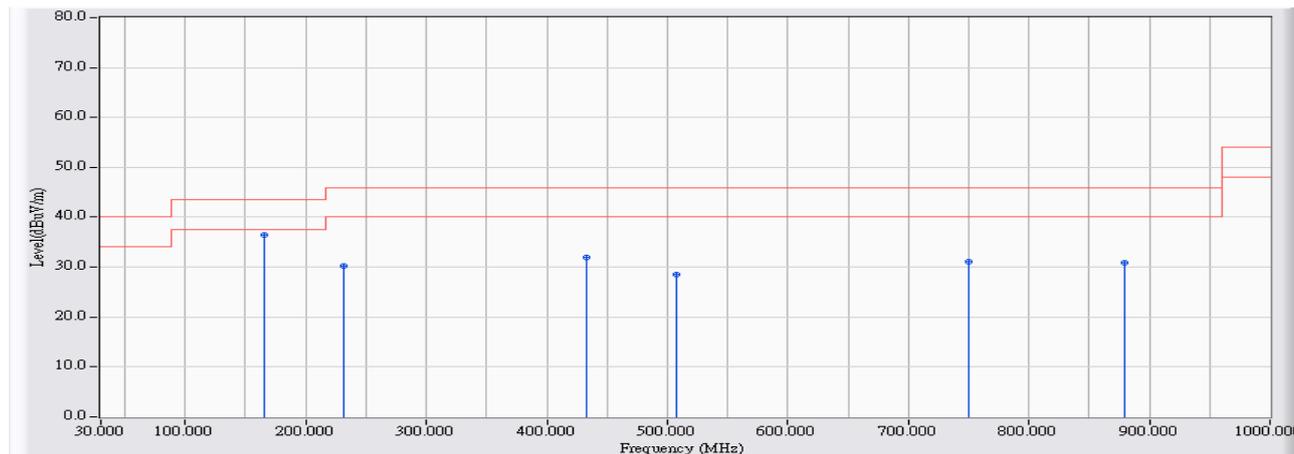
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2012/10/13 - 15:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11b

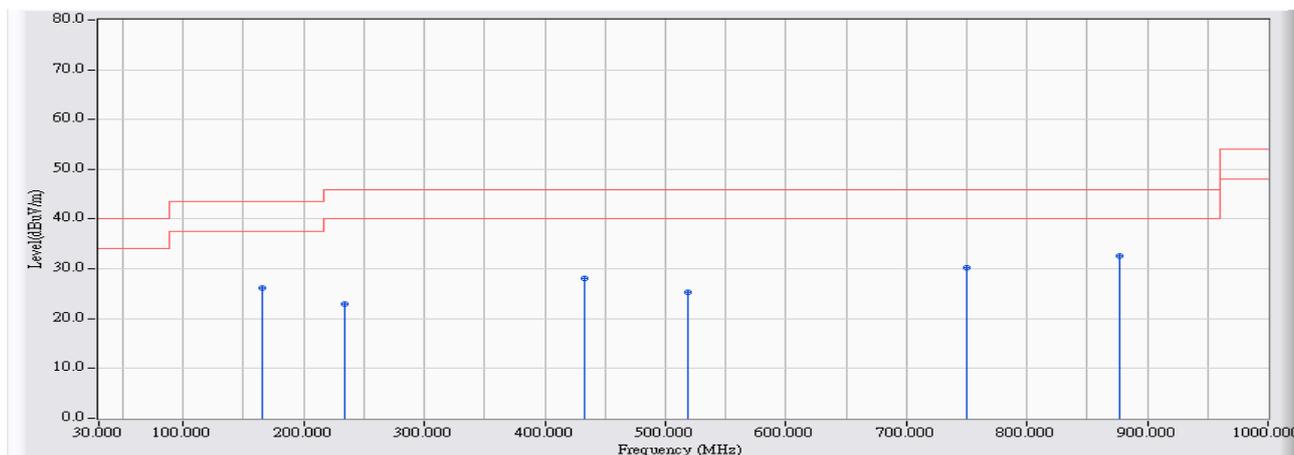


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	50.680	36.520	-6.980	43.500	QUASPEAK
2		232.083	-12.374	42.720	30.346	-15.654	46.000	QUASPEAK
3		432.550	-6.695	38.693	31.998	-14.002	46.000	QUASPEAK
4		506.917	-5.287	33.808	28.521	-17.479	46.000	QUASPEAK
5		749.417	-3.297	34.340	31.044	-14.956	46.000	QUASPEAK
6		878.750	-2.143	32.935	30.792	-15.208	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 : 2012/10/13 - 15:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11b

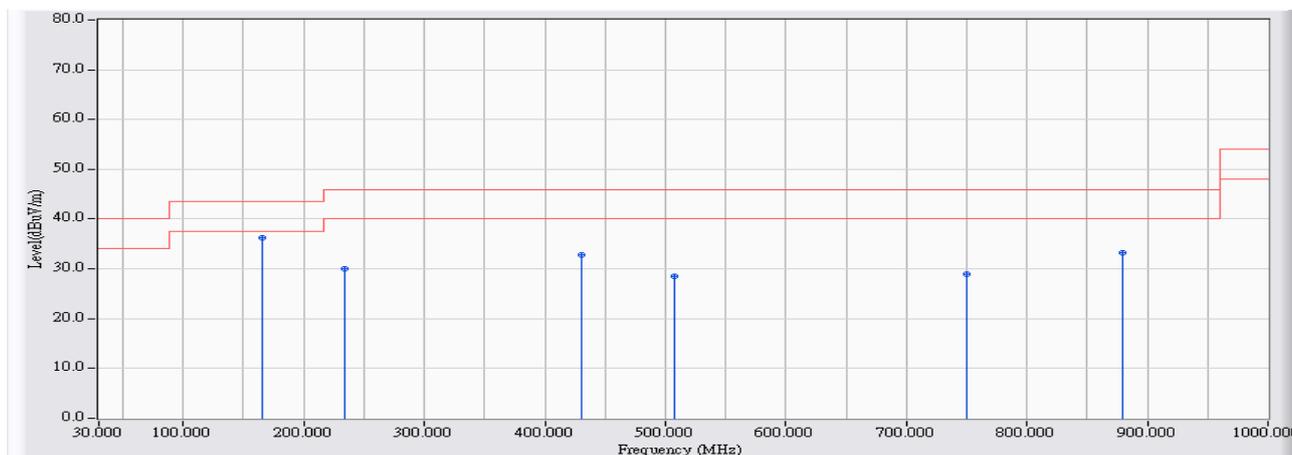


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	40.259	26.099	-17.401	43.500	QUASIPeAK
2	233.700	-12.256	35.129	22.873	-23.127	46.000	QUASIPeAK
3	432.550	-6.695	34.685	27.990	-18.010	46.000	QUASIPeAK
4	518.233	-5.141	30.475	25.334	-20.666	46.000	QUASIPeAK
5	749.417	-3.297	33.461	30.165	-15.835	46.000	QUASIPeAK
6	* 877.133	-2.154	34.817	32.663	-13.337	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11g

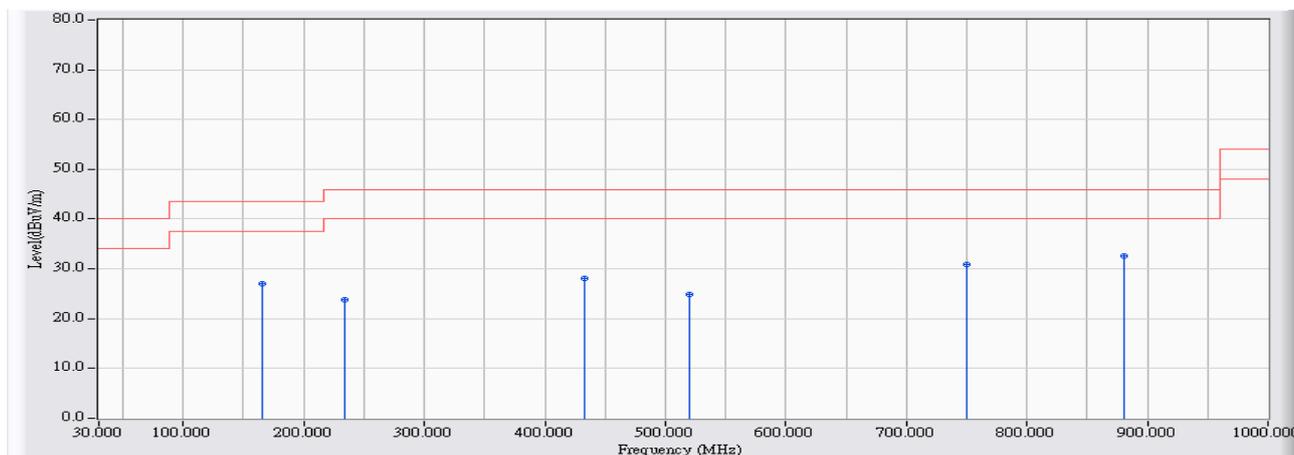


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	50.474	36.314	-7.186	43.500	QUASIPeAK
2		233.700	-12.256	42.247	29.991	-16.009	46.000	QUASIPeAK
3		430.933	-6.728	39.551	32.822	-13.178	46.000	QUASIPeAK
4		506.917	-5.287	33.885	28.598	-17.402	46.000	QUASIPeAK
5		749.417	-3.297	32.303	29.007	-16.993	46.000	QUASIPeAK
6		878.750	-2.143	35.428	33.285	-12.715	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:07
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11g

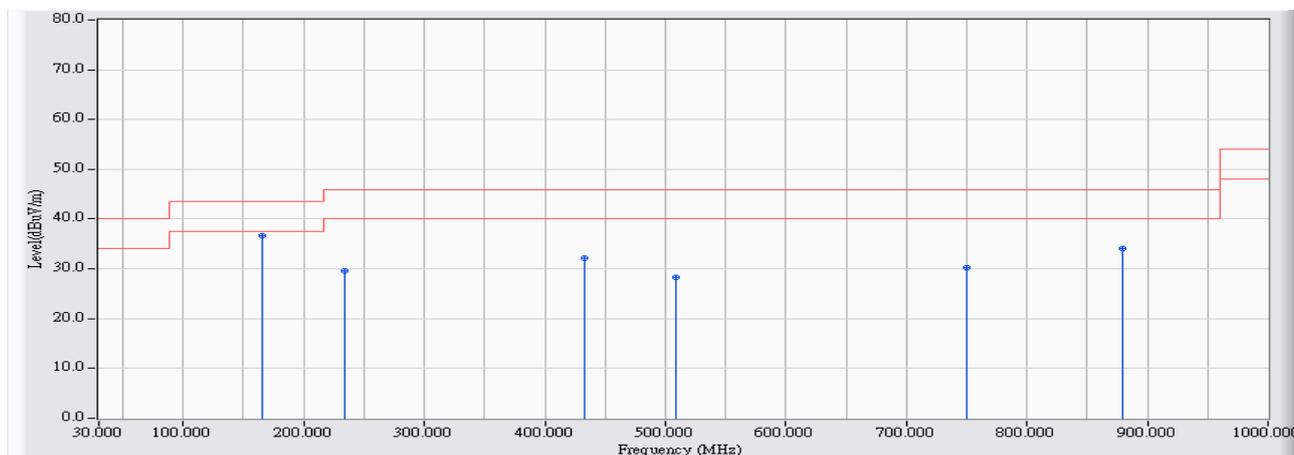


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	41.269	27.109	-16.391	43.500	QUASIPeAK
2	233.700	-12.256	36.152	23.896	-22.104	46.000	QUASIPeAK
3	432.550	-6.695	34.845	28.150	-17.850	46.000	QUASIPeAK
4	519.850	-5.119	30.069	24.949	-21.051	46.000	QUASIPeAK
5	749.417	-3.297	34.267	30.971	-15.029	46.000	QUASIPeAK
6	* 880.367	-2.133	34.821	32.688	-13.312	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:07
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(20M)

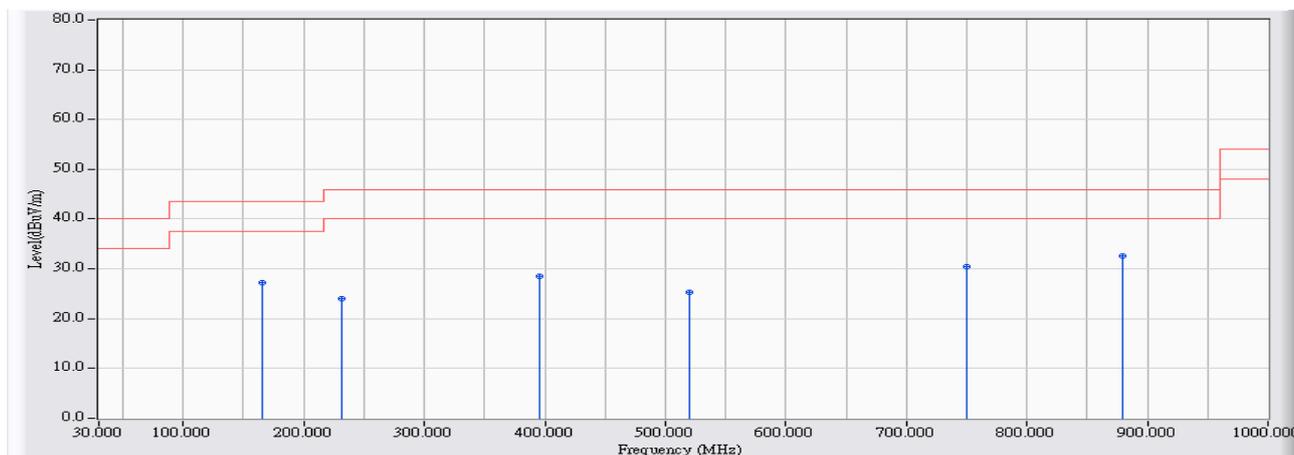


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	50.739	36.579	-6.921	43.500	QUASIPeAK
2		233.700	-12.256	41.953	29.697	-16.303	46.000	QUASIPeAK
3		432.550	-6.695	38.944	32.249	-13.751	46.000	QUASIPeAK
4		508.533	-5.266	33.599	28.333	-17.667	46.000	QUASIPeAK
5		749.417	-3.297	33.603	30.307	-15.693	46.000	QUASIPeAK
6		878.750	-2.143	36.296	34.153	-11.847	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:07
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(20M)

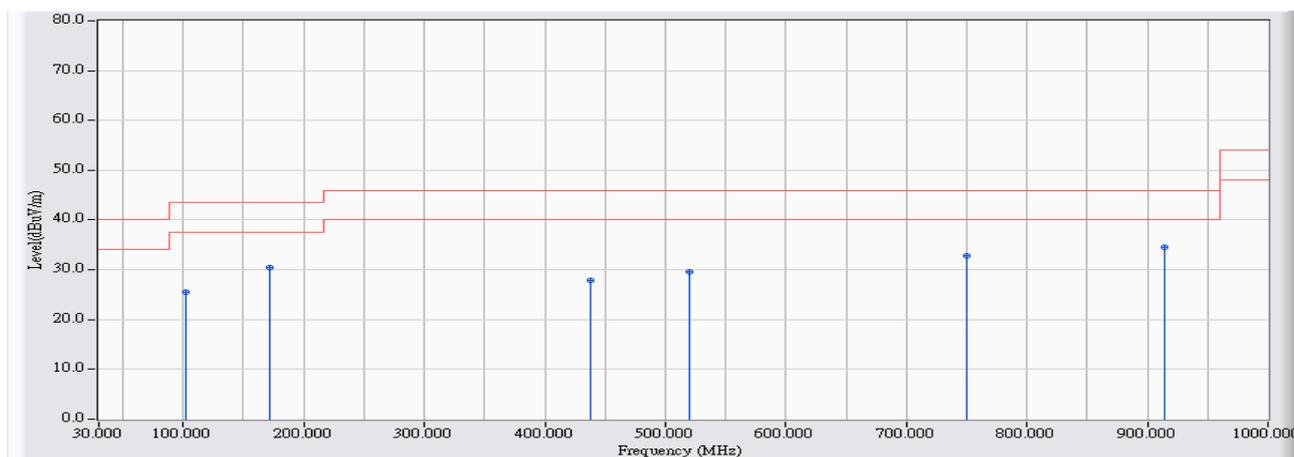


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	41.411	27.251	-16.249	43.500	QUASIPeAK
2	232.083	-12.374	36.494	24.120	-21.880	46.000	QUASIPeAK
3	395.367	-7.504	35.959	28.455	-17.545	46.000	QUASIPeAK
4	519.850	-5.119	30.485	25.365	-20.635	46.000	QUASIPeAK
5	749.417	-3.297	33.837	30.541	-15.459	46.000	QUASIPeAK
6	* 878.750	-2.143	34.759	32.616	-13.384	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/11/07 - 19:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(40M)

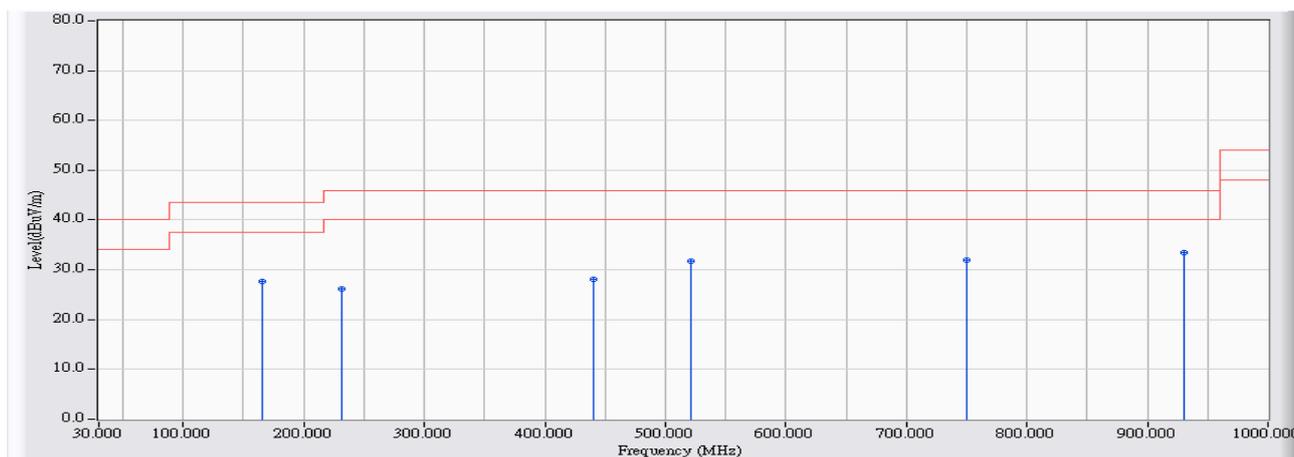


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	102.750	-13.285	38.844	25.559	-17.941	43.500	QUASPEAK
2	172.267	-14.414	44.841	30.428	-13.072	43.500	QUASPEAK
3	437.400	-6.594	34.374	27.780	-18.220	46.000	QUASPEAK
4	519.850	-5.119	34.654	29.534	-16.466	46.000	QUASPEAK
5	749.417	-3.297	36.107	32.811	-13.189	46.000	QUASPEAK
6	* 914.317	-1.849	36.344	34.495	-11.505	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 : 2012/11/07 - 19:09
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz,802.11n(40M)

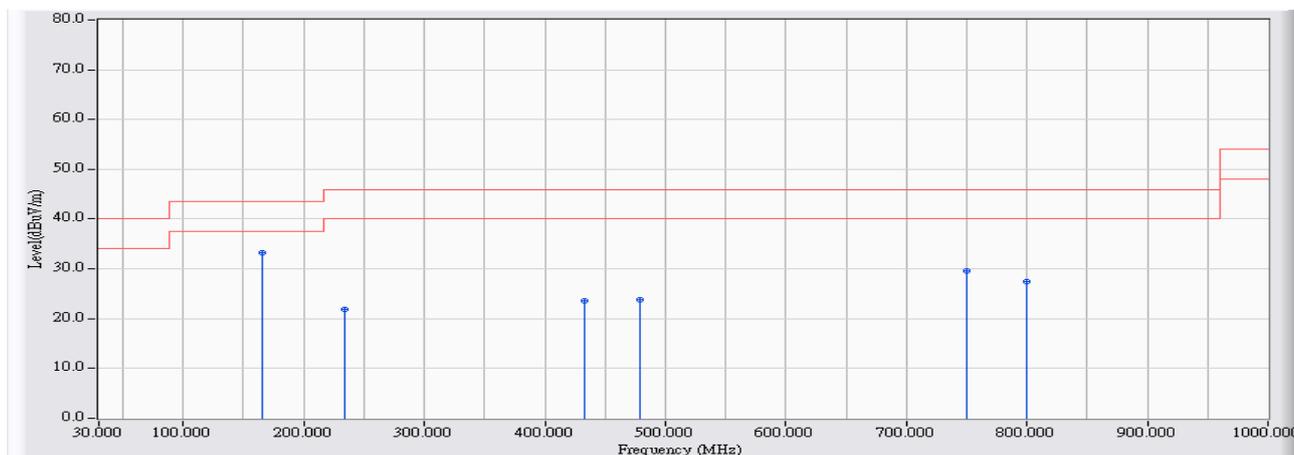


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	41.798	27.638	-15.862	43.500	QUASIPeAK
2	232.083	-12.374	38.596	26.222	-19.778	46.000	QUASIPeAK
3	440.633	-6.527	34.627	28.100	-17.900	46.000	QUASIPeAK
4	521.467	-5.099	36.937	31.838	-14.162	46.000	QUASIPeAK
5	749.417	-3.297	35.351	32.055	-13.945	46.000	QUASIPeAK
6	* 930.483	-1.667	35.196	33.529	-12.471	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz,802.11a

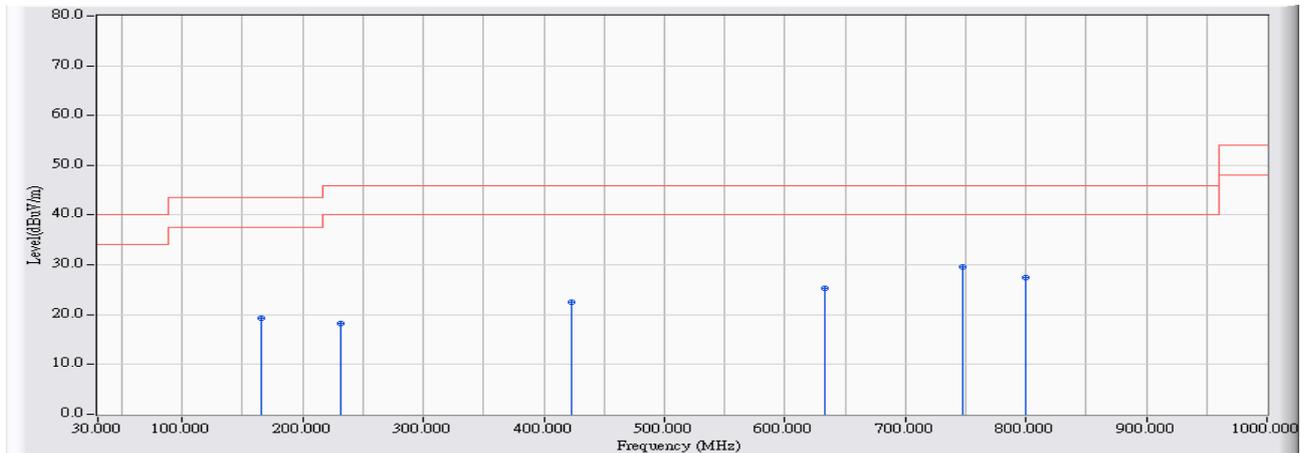


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	47.387	33.227	-10.273	43.500	QUASPEAK
2		233.700	-12.256	34.156	21.900	-24.100	46.000	QUASPEAK
3		432.550	-6.695	30.292	23.597	-22.403	46.000	QUASPEAK
4		479.433	-5.770	29.636	23.866	-22.134	46.000	QUASPEAK
5		749.417	-3.297	32.861	29.565	-16.435	46.000	QUASPEAK
6		799.533	-2.655	30.190	27.535	-18.465	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 : 2012/10/13 - 15:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz,802.11a

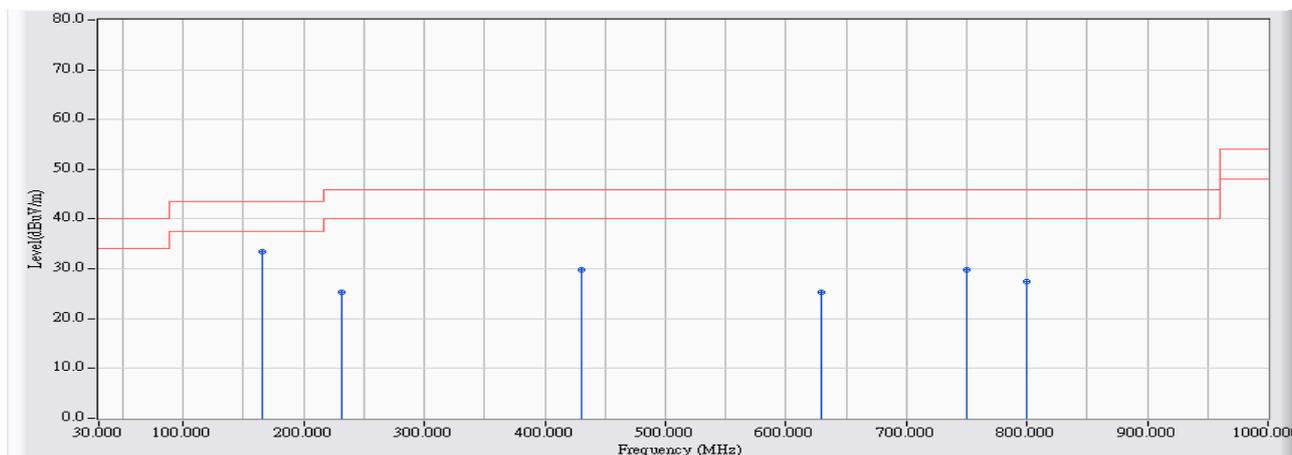


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	33.418	19.258	-24.242	43.500	QUASIPeAK
2	232.083	-12.374	30.584	18.210	-27.790	46.000	QUASIPeAK
3	422.850	-6.896	29.421	22.525	-23.475	46.000	QUASIPeAK
4	633.017	-4.167	29.438	25.271	-20.729	46.000	QUASIPeAK
5	* 747.800	-3.317	32.981	29.664	-16.336	46.000	QUASIPeAK
6	799.533	-2.655	30.162	27.507	-18.493	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz,802.11n(20M)

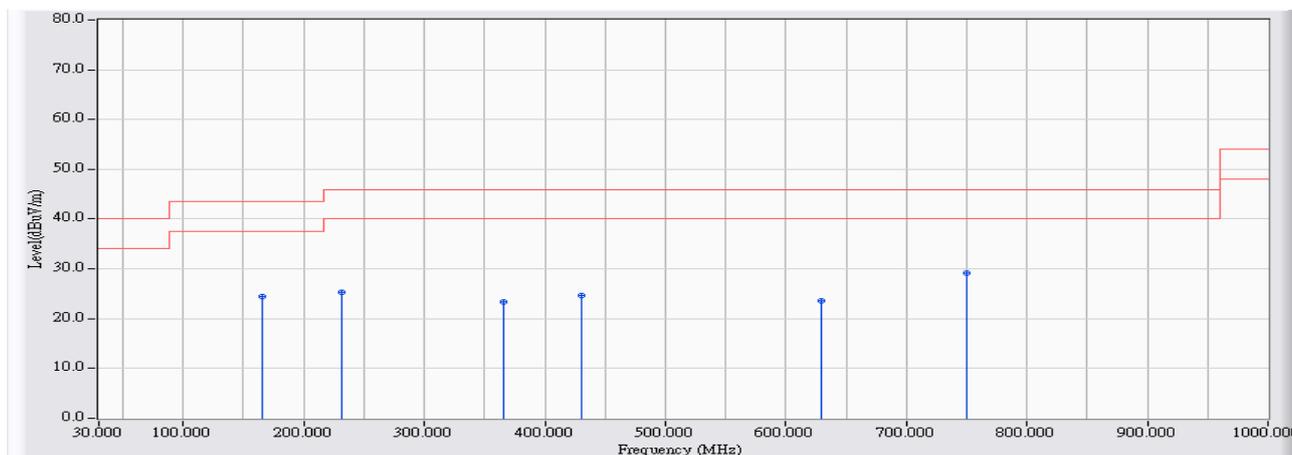


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	47.583	33.423	-10.077	43.500	QUASIPeAK
2		232.083	-12.374	37.677	25.303	-20.697	46.000	QUASIPeAK
3		430.933	-6.728	36.440	29.711	-16.289	46.000	QUASIPeAK
4		629.783	-4.183	29.398	25.215	-20.785	46.000	QUASIPeAK
5		749.417	-3.297	33.097	29.801	-16.199	46.000	QUASIPeAK
6		799.533	-2.655	30.103	27.448	-18.552	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz,802.11n(20M)

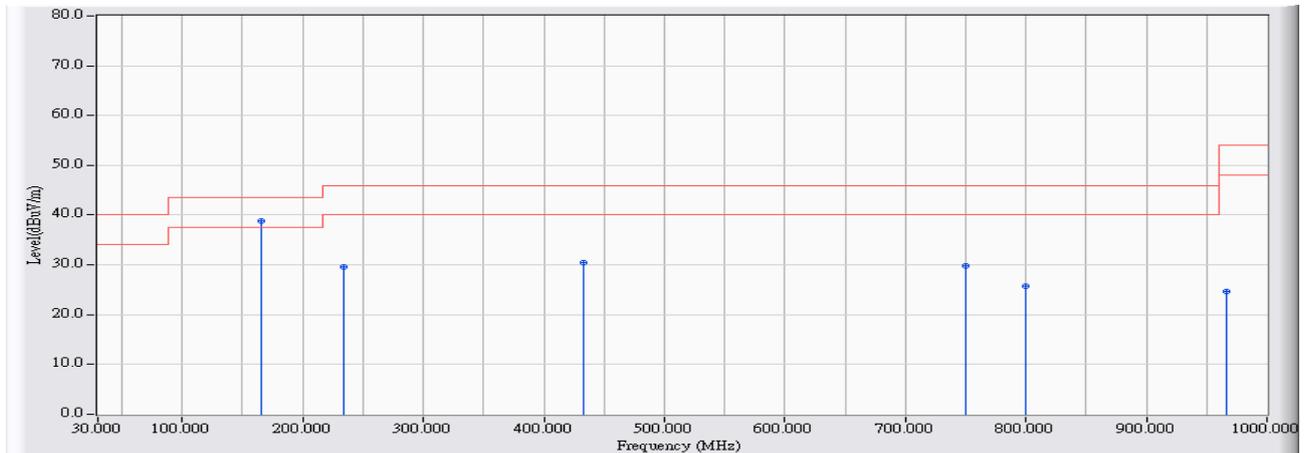


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	38.655	24.495	-19.005	43.500	QUASIPeAK
2	232.083	-12.374	37.661	25.287	-20.713	46.000	QUASIPeAK
3	366.267	-8.344	31.739	23.395	-22.605	46.000	QUASIPeAK
4	430.933	-6.728	31.413	24.684	-21.316	46.000	QUASIPeAK
5	629.783	-4.183	27.763	23.580	-22.420	46.000	QUASIPeAK
6	* 749.417	-3.297	32.533	29.237	-16.763	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5755MHz,802.11n(40M)

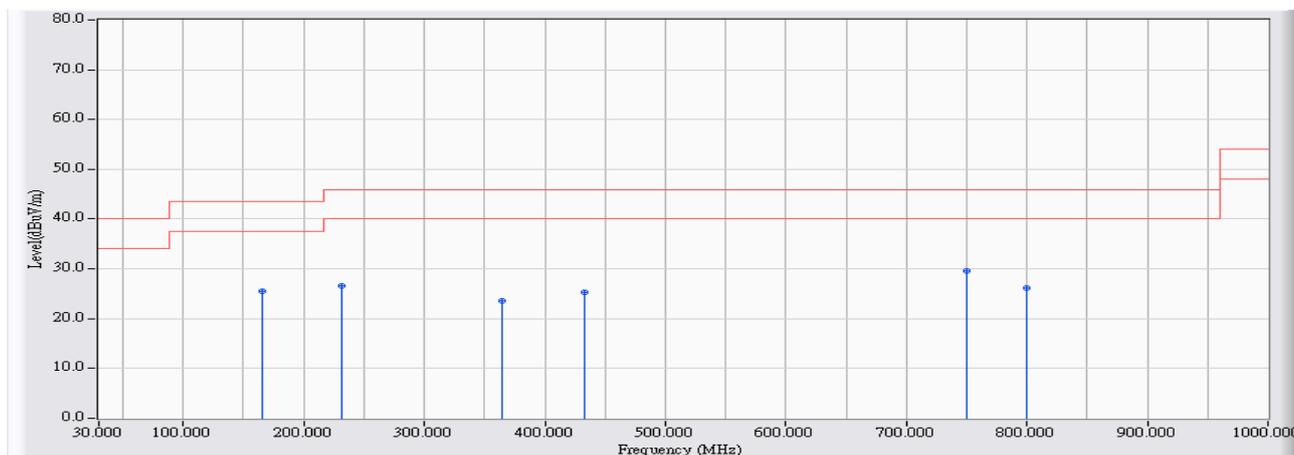


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	165.800	-14.160	52.965	38.805	-4.695	43.500	QUASIPeAK
2		233.700	-12.256	41.844	29.588	-16.412	46.000	QUASIPeAK
3		432.550	-6.695	37.242	30.547	-15.453	46.000	QUASIPeAK
4		749.417	-3.297	33.206	29.910	-16.090	46.000	QUASIPeAK
5		799.533	-2.655	28.372	25.717	-20.283	46.000	QUASIPeAK
6		966.050	-1.281	25.858	24.577	-29.423	54.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/10/13 - 15:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5755MHz,802.11n(40M)

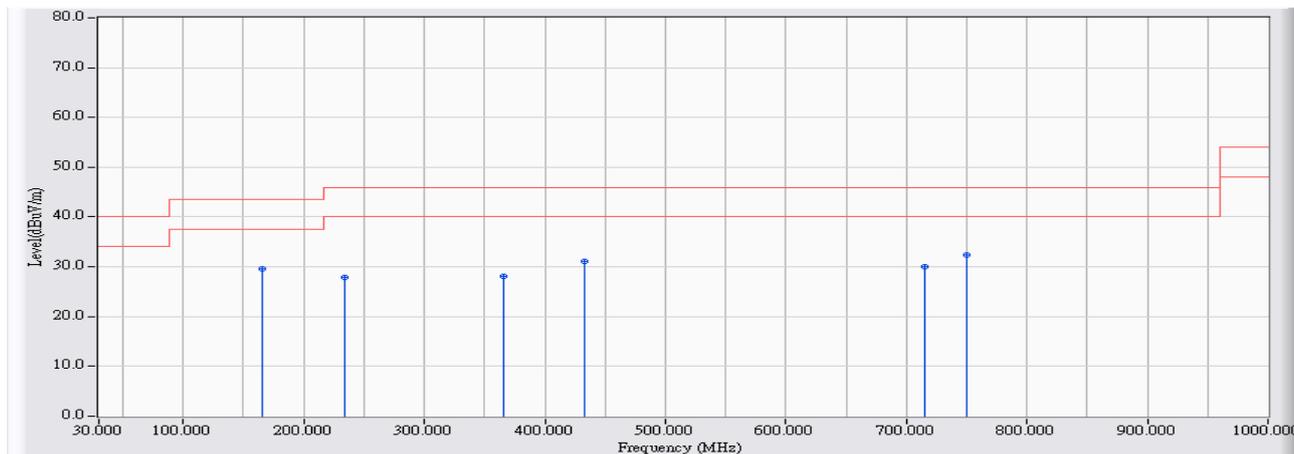


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	39.701	25.541	-17.959	43.500	QUASIPeAK
2	232.083	-12.374	38.960	26.586	-19.414	46.000	QUASIPeAK
3	364.650	-8.391	31.888	23.497	-22.503	46.000	QUASIPeAK
4	432.550	-6.695	31.906	25.211	-20.789	46.000	QUASIPeAK
5	* 749.417	-3.297	32.875	29.579	-16.421	46.000	QUASIPeAK
6	799.533	-2.655	28.856	26.201	-19.799	46.000	QUASIPeAK

Note:

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

Site : CB1	Time : 2012/11/07 - 19:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz,802.11ac(80M)

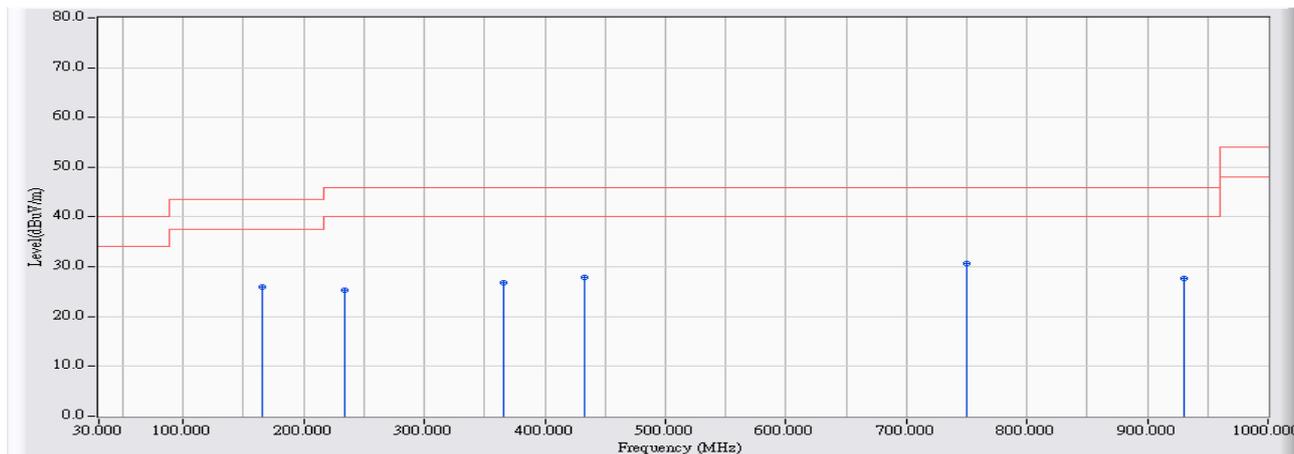


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	43.797	29.637	-13.863	43.500	QUASPEAK
2	233.700	-12.256	40.088	27.832	-18.168	46.000	QUASPEAK
3	366.267	-8.344	36.435	28.091	-17.909	46.000	QUASPEAK
4	432.550	-6.695	37.833	31.138	-14.862	46.000	QUASPEAK
5	715.467	-3.736	33.714	29.977	-16.023	46.000	QUASPEAK
6	* 749.417	-3.297	35.776	32.480	-13.520	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 : 2012/11/07 - 19:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz,802.11ac(80M)



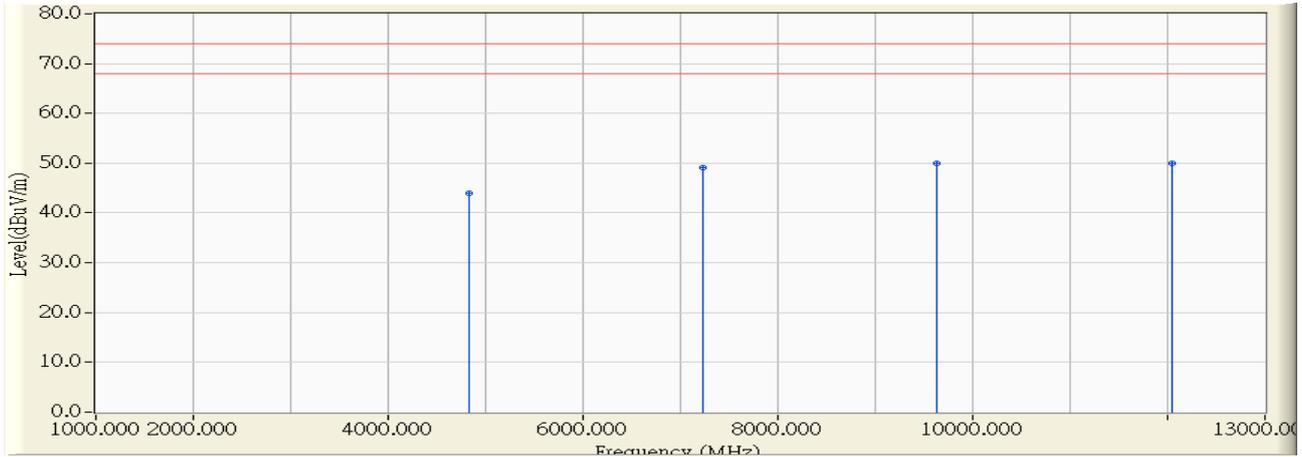
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	165.800	-14.160	40.190	26.030	-17.470	43.500	QUASIPeAK
2	233.700	-12.256	37.588	25.332	-20.668	46.000	QUASIPeAK
3	366.267	-8.344	35.200	26.856	-19.144	46.000	QUASIPeAK
4	432.550	-6.695	34.521	27.826	-18.174	46.000	QUASIPeAK
5	* 749.417	-3.297	34.069	30.773	-15.227	46.000	QUASIPeAK
6	930.483	-1.667	29.262	27.595	-18.405	46.000	QUASIPeAK

Note:

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

Above 1GHz Spurious

Site : CB1	Time : 2012/10/13 - 17:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b

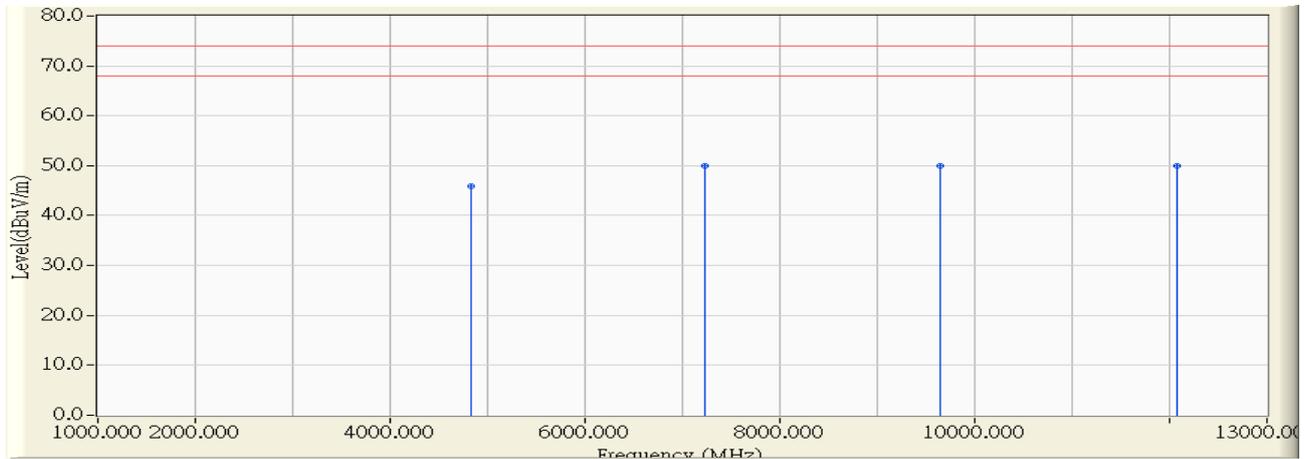


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4823.900	-0.803	44.760	43.957	-30.043	54.000	74.000	PEAK
2	7236.000	5.497	43.720	49.216	-24.784	54.000	74.000	PEAK
3	9631.100	9.108	40.840	49.948	-24.052	54.000	74.000	PEAK
4	* 12049.200	11.529	38.490	50.019	-23.981	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:22
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b

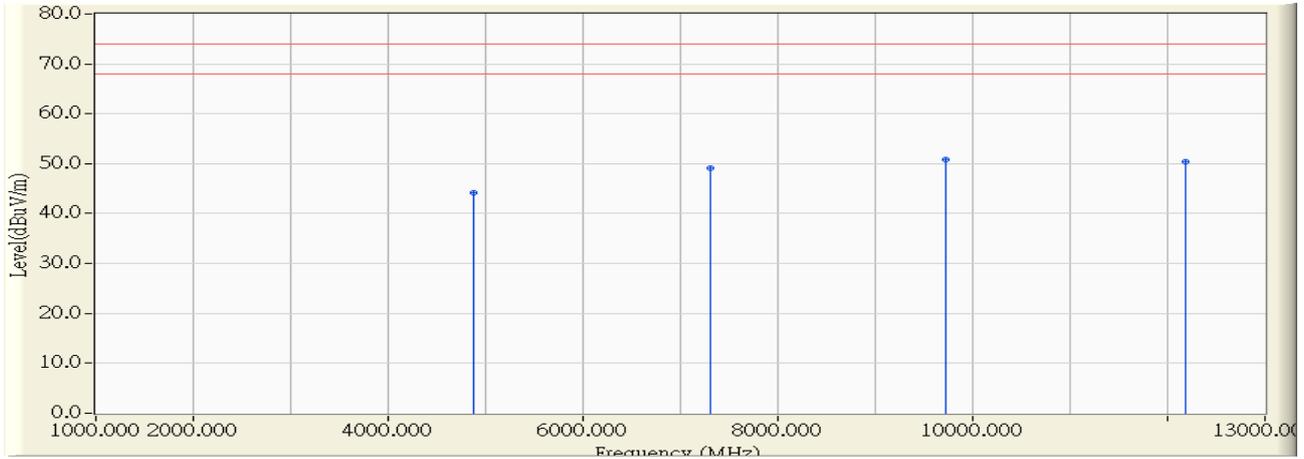


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4823.800	-0.803	46.740	45.936	-28.064	54.000	74.000	PEAK
2	* 7236.000	5.497	44.540	50.036	-23.964	54.000	74.000	PEAK
3	9653.000	9.267	40.690	49.957	-24.043	54.000	74.000	PEAK
4	12084.600	11.517	38.380	49.896	-24.104	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:26
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11b

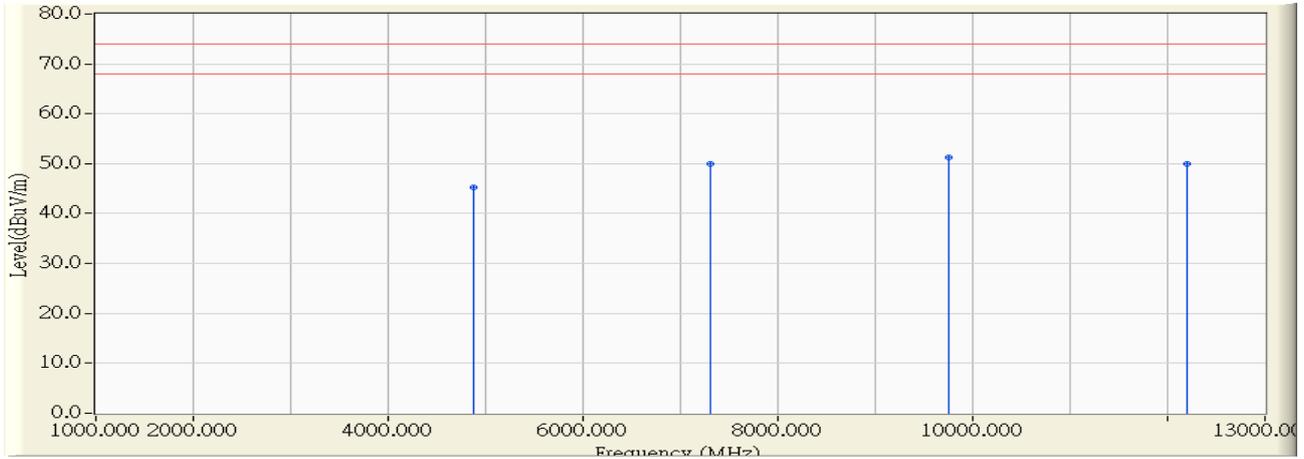


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4874.000	-0.672	44.860	44.188	-29.812	54.000	74.000	PEAK
2	7308.000	5.670	43.350	49.020	-24.980	54.000	74.000	PEAK
3	* 9729.800	9.824	41.060	50.884	-23.116	54.000	74.000	PEAK
4	12183.500	11.482	38.970	50.452	-23.548	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11b

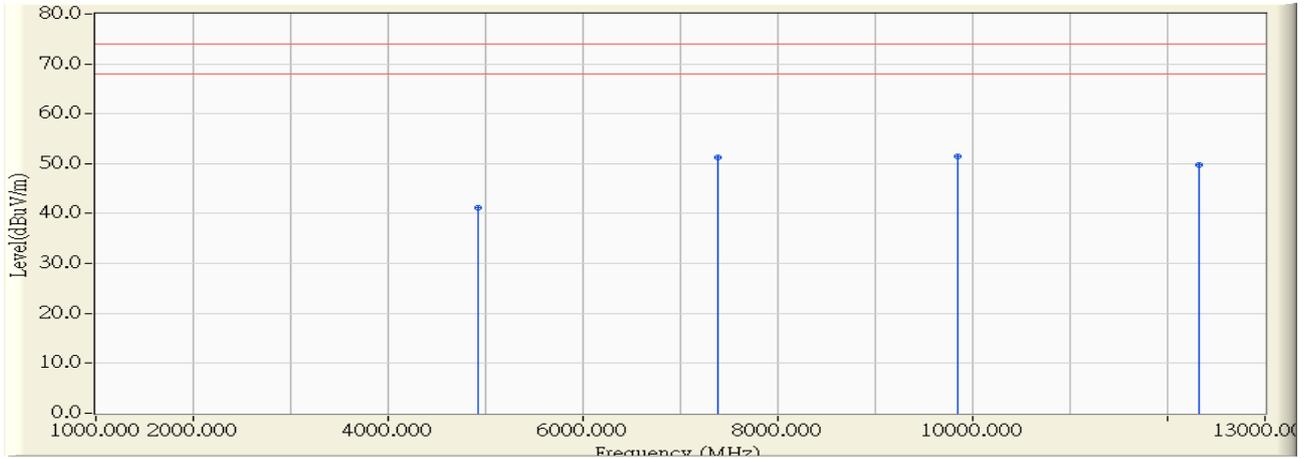


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4874.000	-0.672	45.960	45.288	-28.712	54.000	74.000	PEAK
2	7308.800	5.672	44.260	49.932	-24.068	54.000	74.000	PEAK
3	* 9748.100	9.956	41.220	51.176	-22.824	54.000	74.000	PEAK
4	12197.100	11.477	38.500	49.977	-24.023	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b

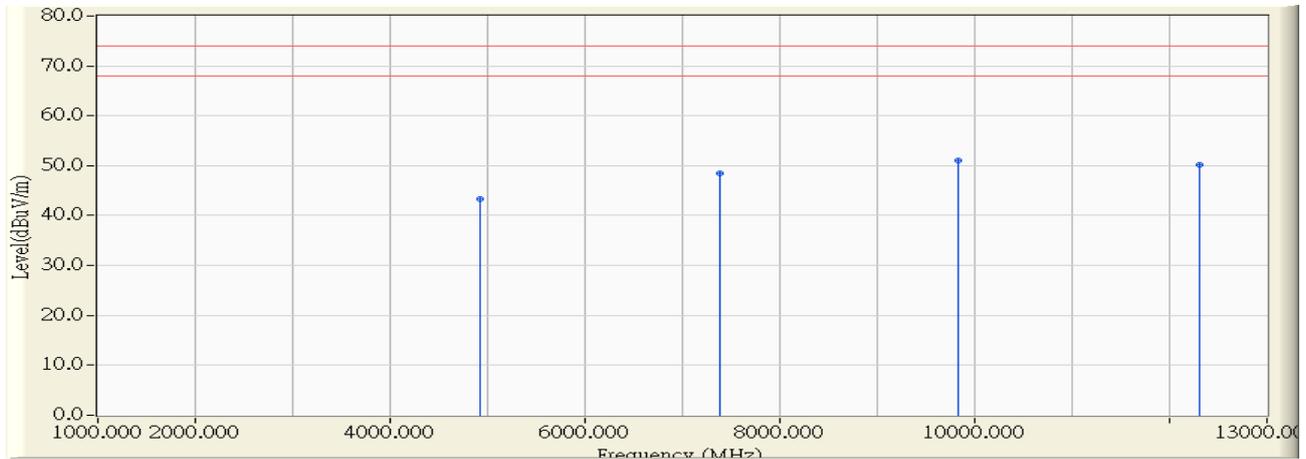


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4924.000	-0.541	41.780	41.239	-32.761	54.000	74.000	PEAK
2	7389.400	5.867	45.410	51.277	-22.723	54.000	74.000	PEAK
3	* 9848.000	10.680	40.800	51.480	-22.520	54.000	74.000	PEAK
4	12316.700	11.435	38.330	49.765	-24.235	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b

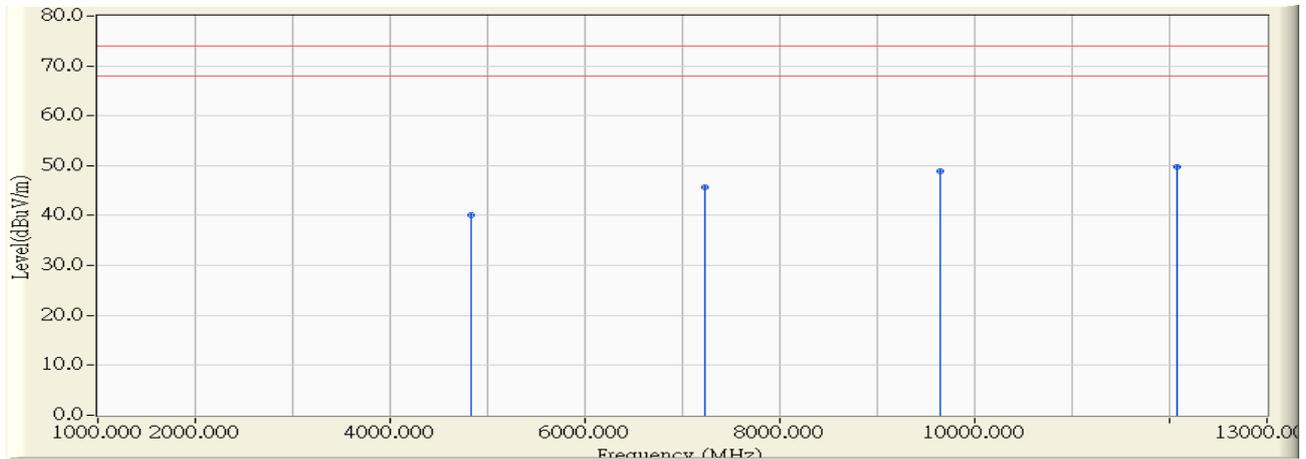


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4924.000	-0.541	43.930	43.389	-30.611	54.000	74.000	PEAK
2	7385.900	5.858	42.550	48.408	-25.592	54.000	74.000	PEAK
3	* 9835.800	10.592	40.460	51.052	-22.948	54.000	74.000	PEAK
4	12302.600	11.439	38.780	50.220	-23.780	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g

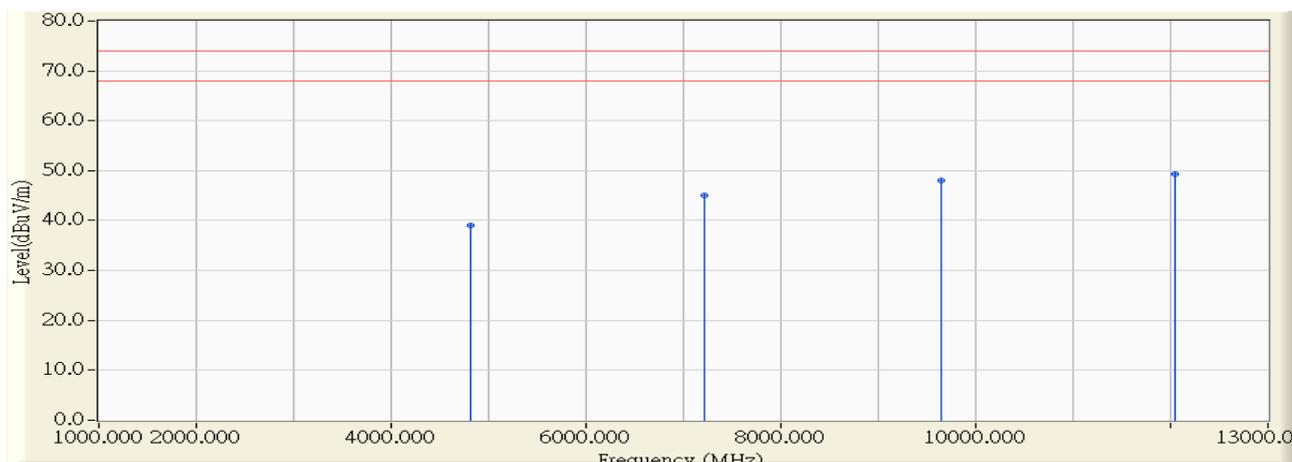


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4824.300	-0.802	40.990	40.188	-33.812	54.000	74.000	PEAK
2	7235.800	5.497	40.120	45.616	-28.384	54.000	74.000	PEAK
3	9644.600	9.207	39.600	48.806	-25.194	54.000	74.000	PEAK
4	* 12083.200	11.518	38.250	49.767	-24.233	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g

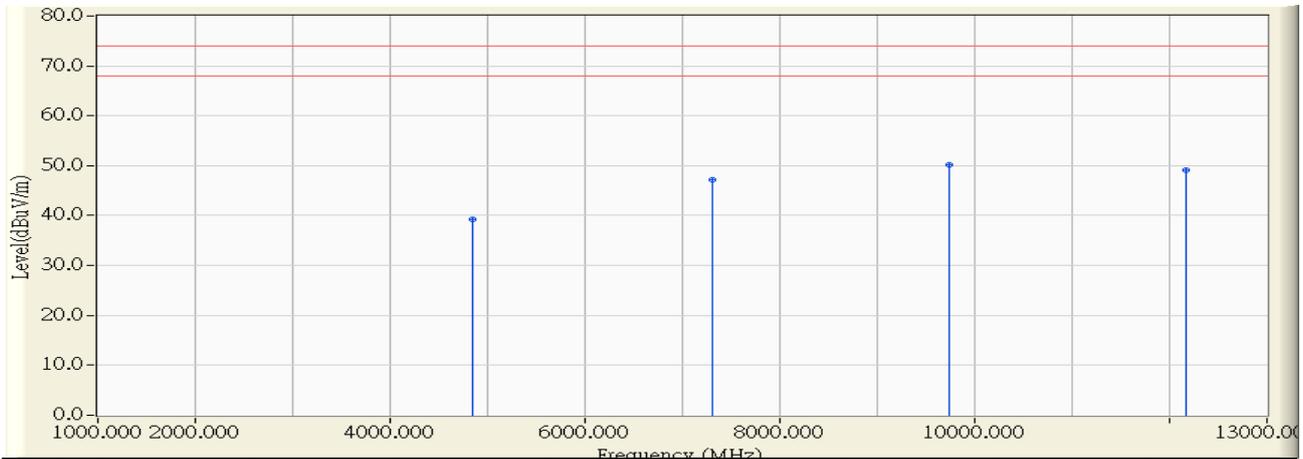


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4814.900	-0.827	39.780	38.953	-35.047	54.000	74.000	PEAK
2	7222.300	5.464	39.510	44.973	-29.027	54.000	74.000	PEAK
3	9646.500	9.220	38.760	47.980	-26.020	54.000	74.000	PEAK
4	* 12048.200	11.530	37.790	49.319	-24.681	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11g

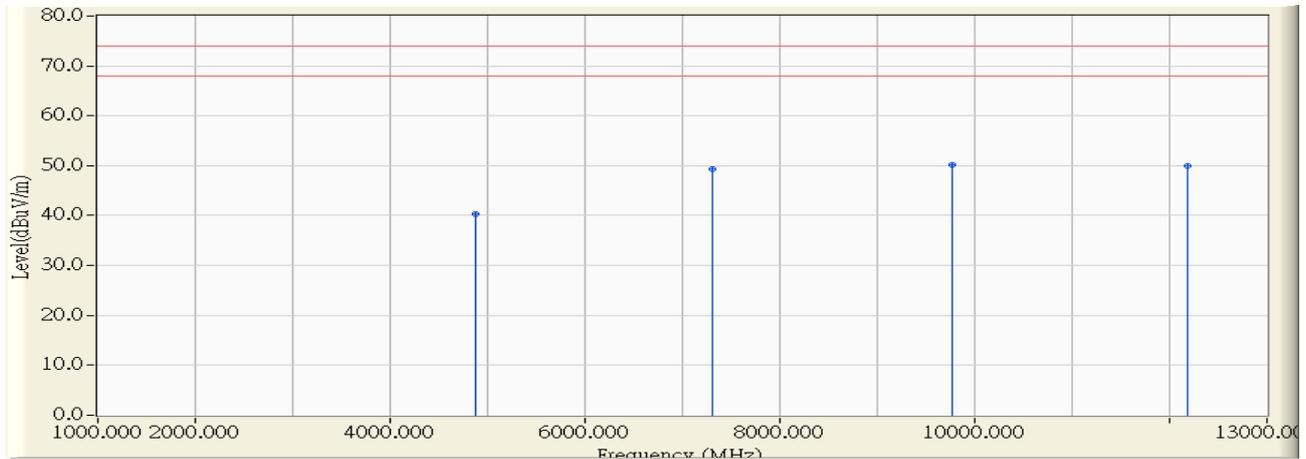


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4852.200	-0.730	40.040	39.311	-34.689	54.000	74.000	PEAK
2	7305.700	5.664	41.600	47.265	-26.735	54.000	74.000	PEAK
3	* 9735.300	9.864	40.360	50.223	-23.777	54.000	74.000	PEAK
4	12173.200	11.486	37.680	49.165	-24.835	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 17:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11g

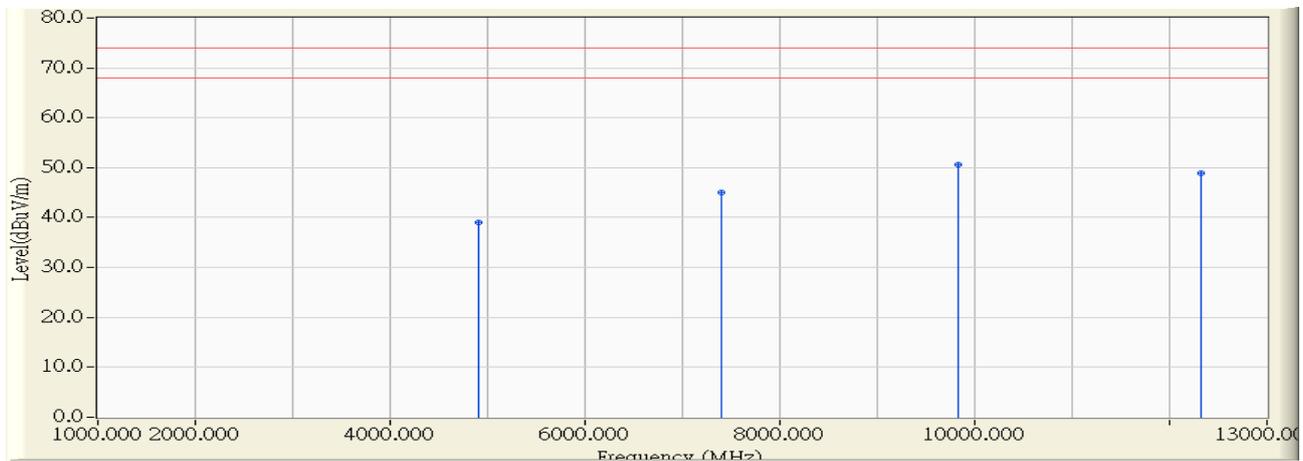


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4876.600	-0.665	40.990	40.325	-33.675	54.000	74.000	PEAK
2	7301.800	5.656	43.720	49.375	-24.625	54.000	74.000	PEAK
3	* 9771.200	10.123	39.980	50.104	-23.896	54.000	74.000	PEAK
4	12190.500	11.479	38.390	49.869	-24.131	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

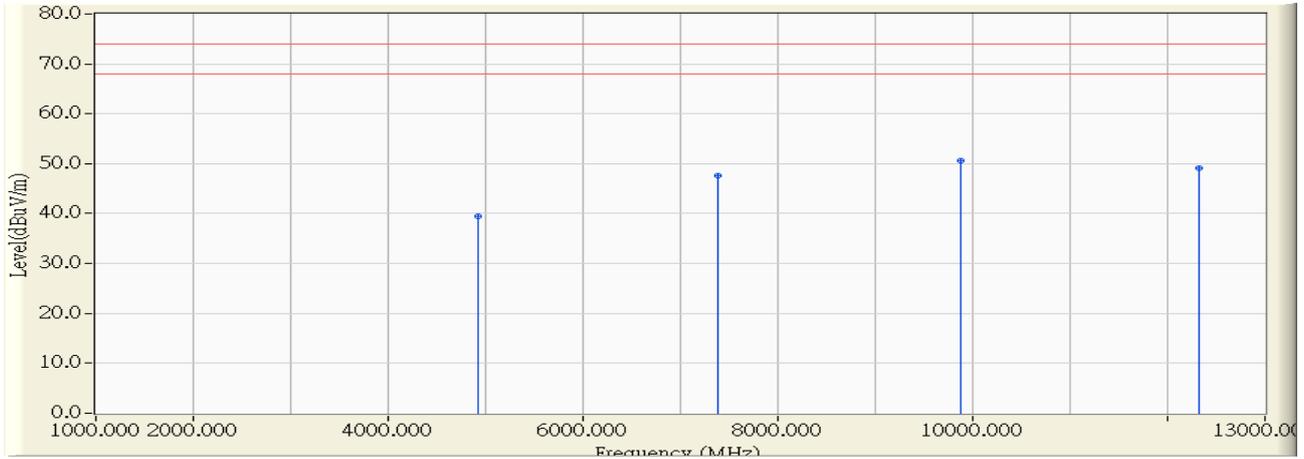


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4903.300	-0.595	39.720	39.125	-34.875	54.000	74.000	PEAK
2	7394.300	5.879	39.260	45.138	-28.862	54.000	74.000	PEAK
3	* 9836.400	10.596	39.930	50.526	-23.474	54.000	74.000	PEAK
4	12325.200	11.432	37.380	48.812	-25.188	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

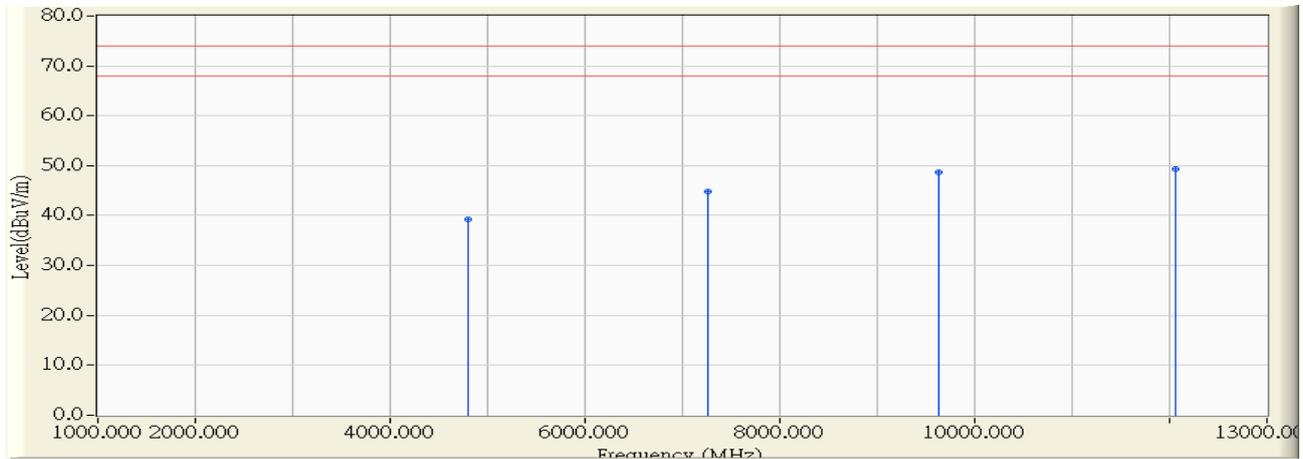


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4916.900	-0.560	40.100	39.541	-34.459	54.000	74.000	PEAK
2	7386.800	5.861	41.660	47.520	-26.480	54.000	74.000	PEAK
3	* 9870.000	10.840	39.770	50.610	-23.390	54.000	74.000	PEAK
4	12317.000	11.435	37.740	49.175	-24.825	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11n(20M)

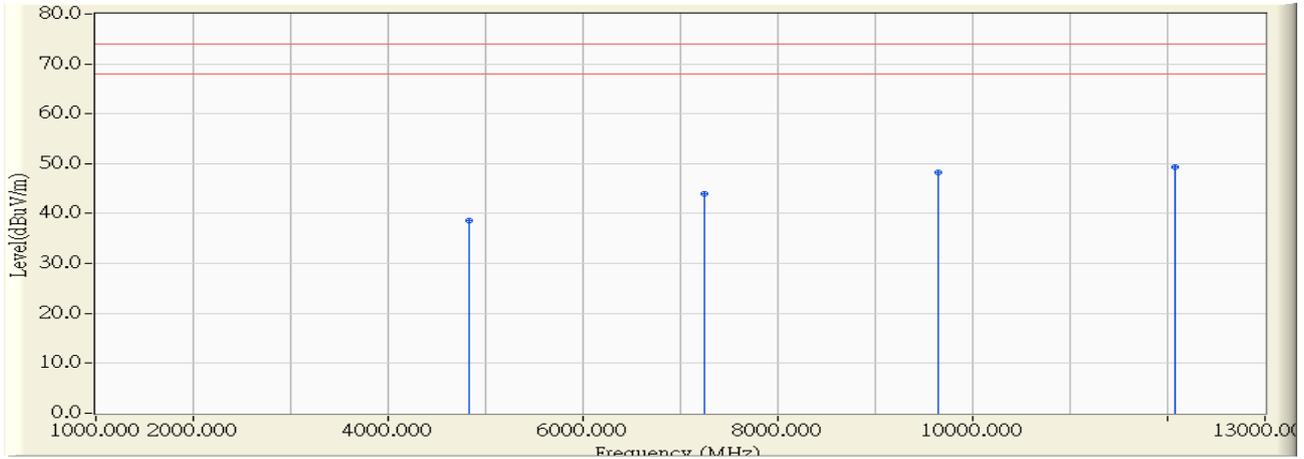


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4803.100	-0.857	40.140	39.282	-34.718	54.000	74.000	PEAK
2	7254.000	5.540	39.200	44.740	-29.260	54.000	74.000	PEAK
3	9634.700	9.134	39.530	48.664	-25.336	54.000	74.000	PEAK
4	* 12062.500	11.525	37.890	49.414	-24.586	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:06
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11n(20M)

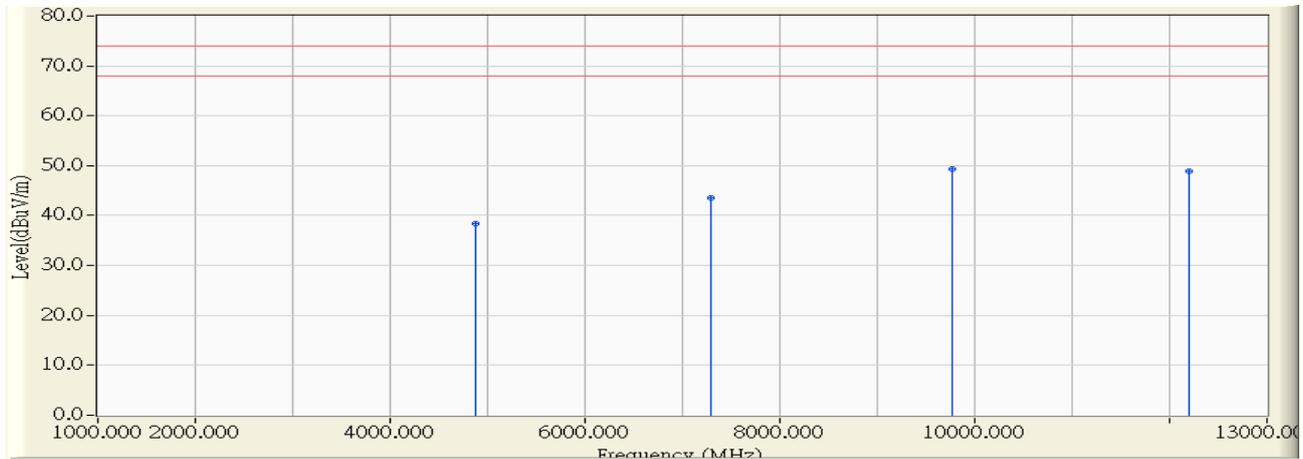


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4827.400	-0.795	39.320	38.526	-35.474	54.000	74.000	PEAK
2	7239.600	5.505	38.540	44.045	-29.955	54.000	74.000	PEAK
3	9647.900	9.229	39.130	48.360	-25.640	54.000	74.000	PEAK
4	* 12075.600	11.519	37.790	49.310	-24.690	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:09
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS 1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11n(20M)

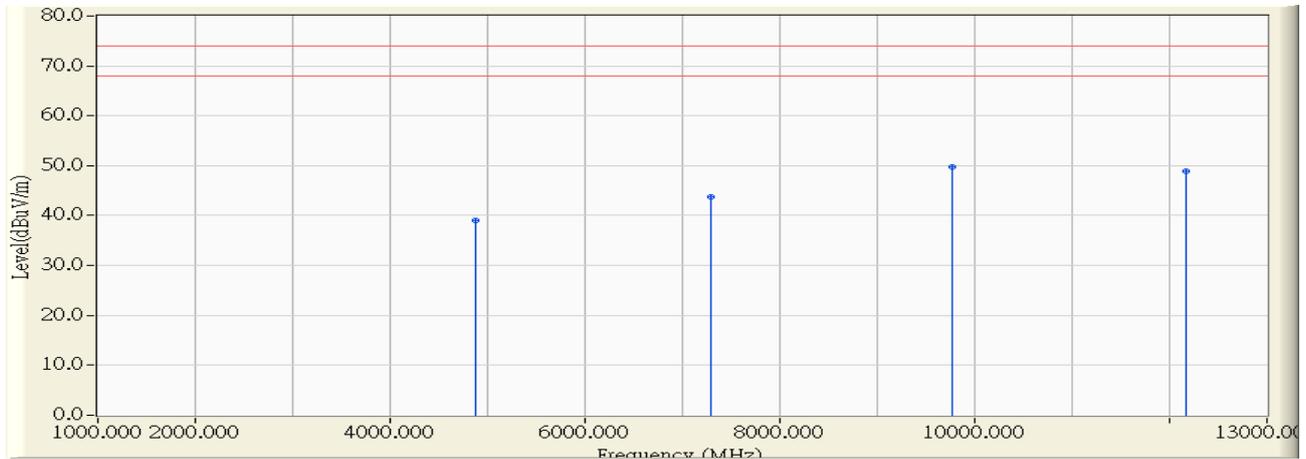


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4880.100	-0.656	39.080	38.424	-35.576	54.000	74.000	PEAK
2	7294.300	5.637	37.800	43.437	-30.563	54.000	74.000	PEAK
3	* 9767.800	10.099	39.320	49.419	-24.581	54.000	74.000	PEAK
4	12195.500	11.477	37.380	48.857	-25.143	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11n(20M)

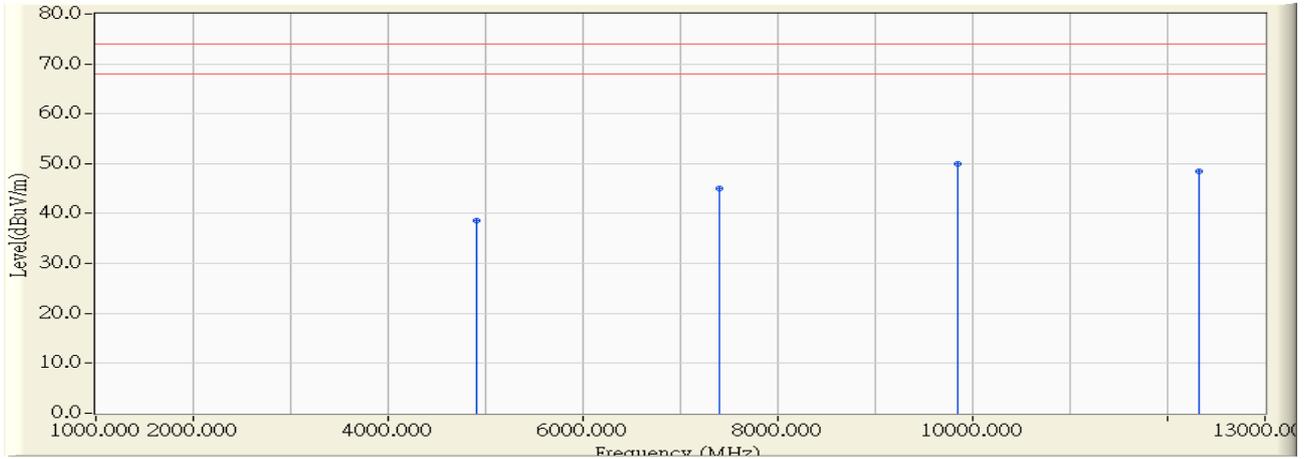


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4878.100	-0.660	39.640	38.979	-35.021	54.000	74.000	PEAK
2	7297.900	5.646	38.050	43.696	-30.304	54.000	74.000	PEAK
3	* 9770.100	10.116	39.740	49.856	-24.144	54.000	74.000	PEAK
4	12166.400	11.488	37.450	48.938	-25.062	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11n(20M)

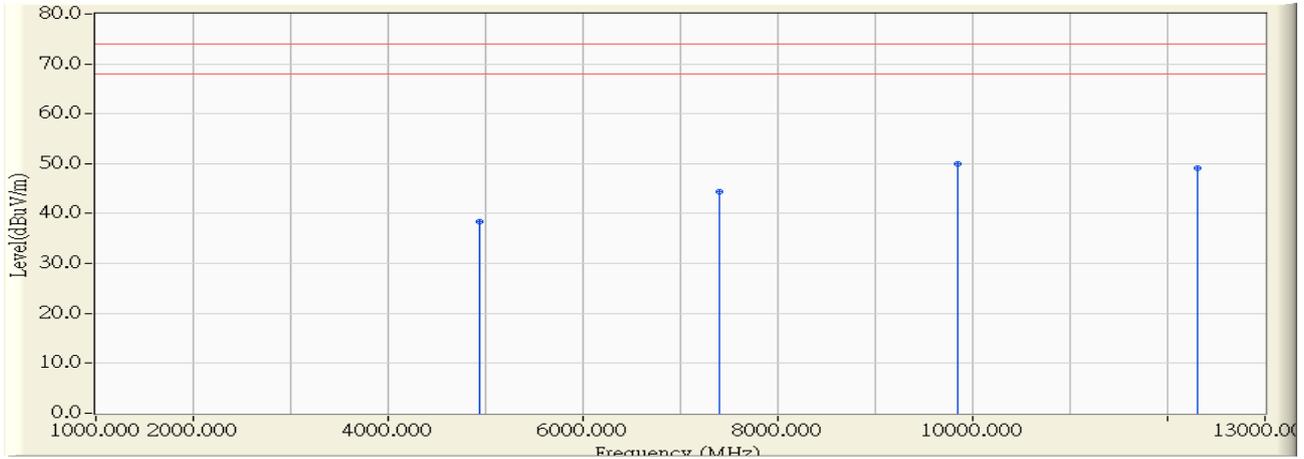


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4909.800	-0.578	39.130	38.552	-35.448	54.000	74.000	PEAK
2	7406.600	5.908	39.110	45.018	-28.982	54.000	74.000	PEAK
3	* 9848.100	10.681	39.370	50.051	-23.949	54.000	74.000	PEAK
4	12324.700	11.432	37.080	48.512	-25.488	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:12
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11n(20M)

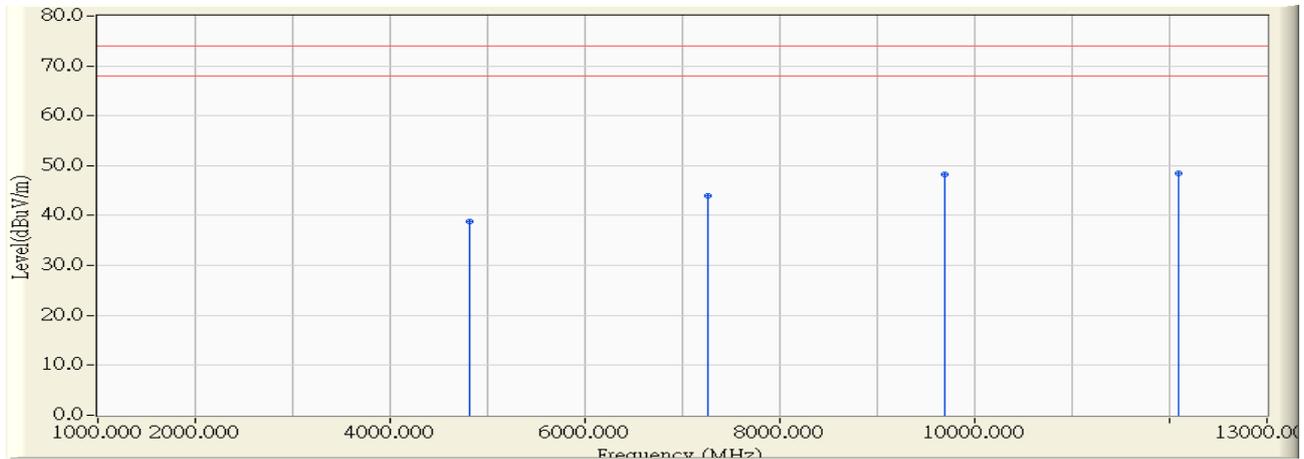


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4939.700	-0.500	38.900	38.401	-35.599	54.000	74.000	PEAK
2	7407.500	5.911	38.490	44.400	-29.600	54.000	74.000	PEAK
3	* 9848.100	10.681	39.190	49.871	-24.129	54.000	74.000	PEAK
4	12300.200	11.441	37.680	49.120	-24.880	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:13
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_802.11n(40M)

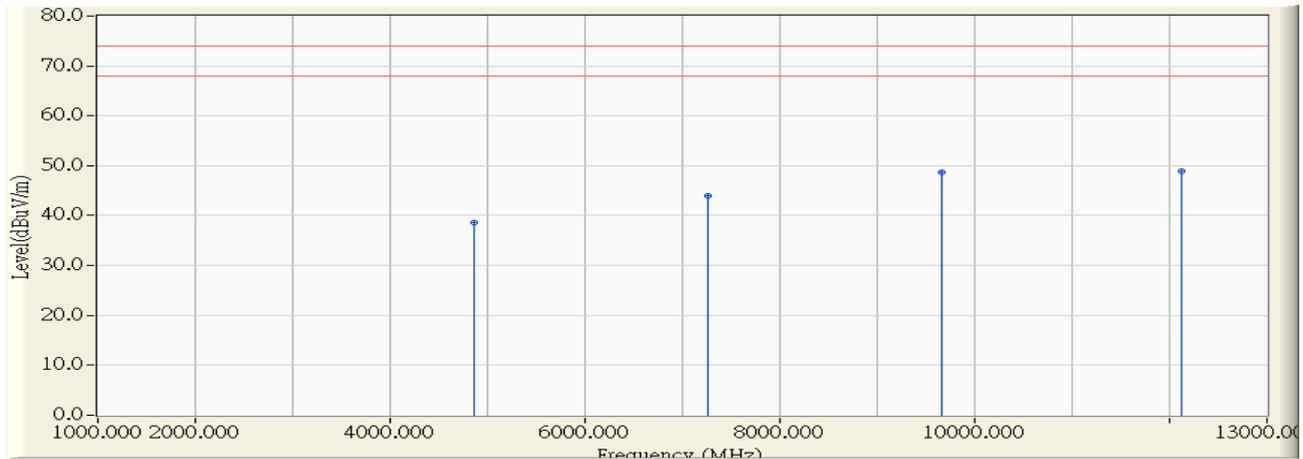


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4820.800	-0.812	39.670	38.858	-35.142	54.000	74.000	PEAK
2	7257.500	5.548	38.390	43.938	-30.062	54.000	74.000	PEAK
3	9687.600	9.518	38.790	48.308	-25.692	54.000	74.000	PEAK
4	* 12095.200	11.513	36.880	48.393	-25.607	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:14
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_802.11n(40M)

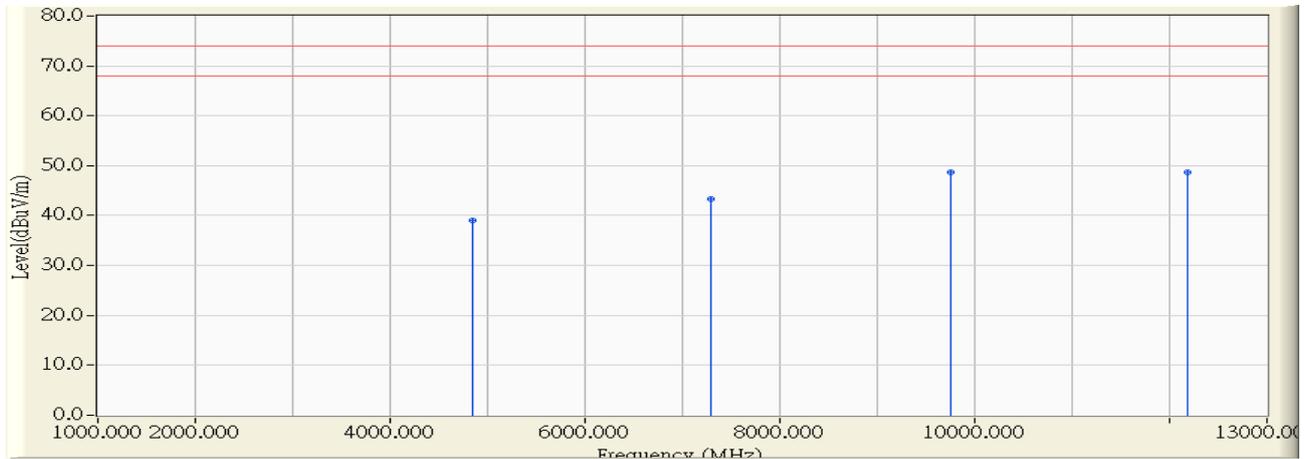


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4861.200	-0.706	39.360	38.654	-35.346	54.000	74.000	PEAK
2	7265.800	5.569	38.300	43.868	-30.132	54.000	74.000	PEAK
3	9667.800	9.374	39.290	48.664	-25.336	54.000	74.000	PEAK
4	* 12129.200	11.500	37.380	48.881	-25.119	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11n(40M)

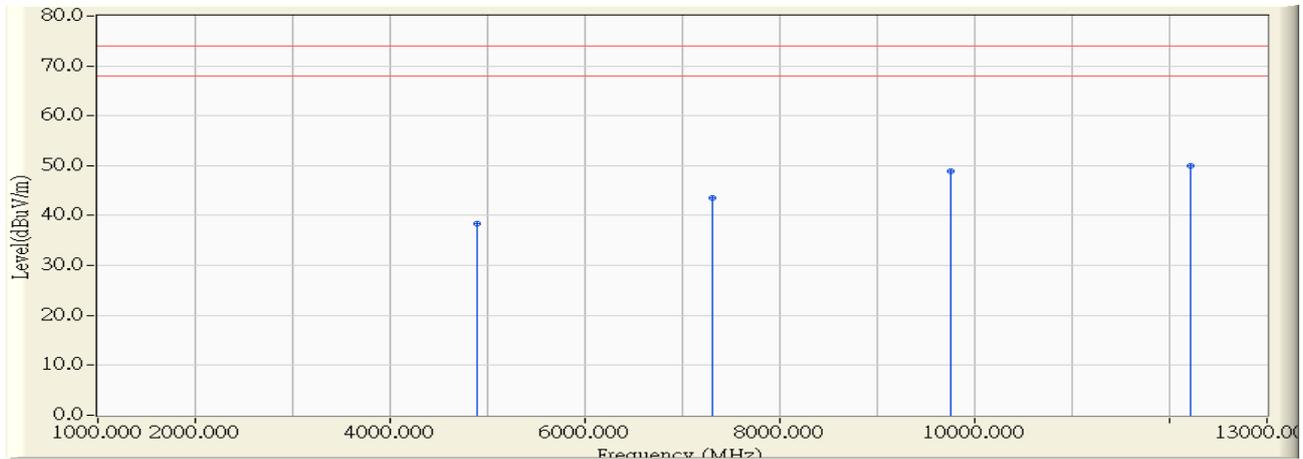


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4850.900	-0.732	39.780	39.047	-34.953	54.000	74.000	PEAK
2	7299.100	5.648	37.630	43.279	-30.721	54.000	74.000	PEAK
3	9748.900	9.962	38.650	48.612	-25.388	54.000	74.000	PEAK
4	* 12185.100	11.481	37.300	48.781	-25.219	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:16
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2437MHz_802.11n(40M)

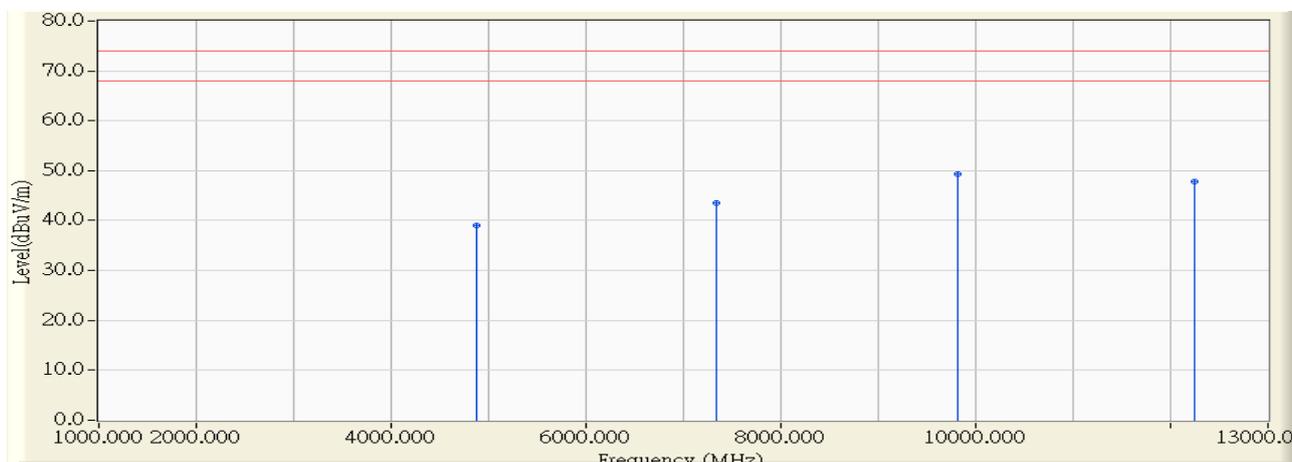


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4892.800	-0.622	38.930	38.307	-35.693	54.000	74.000	PEAK
2	7300.100	5.651	37.890	43.541	-30.459	54.000	74.000	PEAK
3	9759.600	10.040	38.920	48.960	-25.040	54.000	74.000	PEAK
4	* 12208.800	11.473	38.460	49.933	-24.067	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:18
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_802.11n(40M)

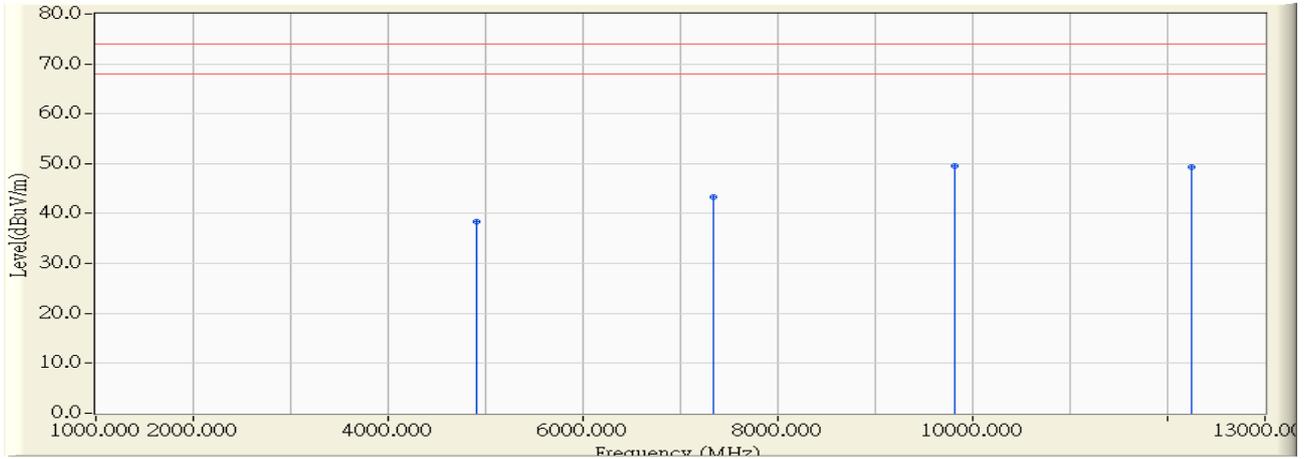


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4883.600	-0.647	39.640	38.993	-35.007	54.000	74.000	PEAK
2	7344.500	5.758	37.710	43.468	-30.532	54.000	74.000	PEAK
3	* 9808.000	10.390	38.940	49.330	-24.670	54.000	74.000	PEAK
4	12242.500	11.461	36.440	47.901	-26.099	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/13 - 18:19
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_802.11n(40M)

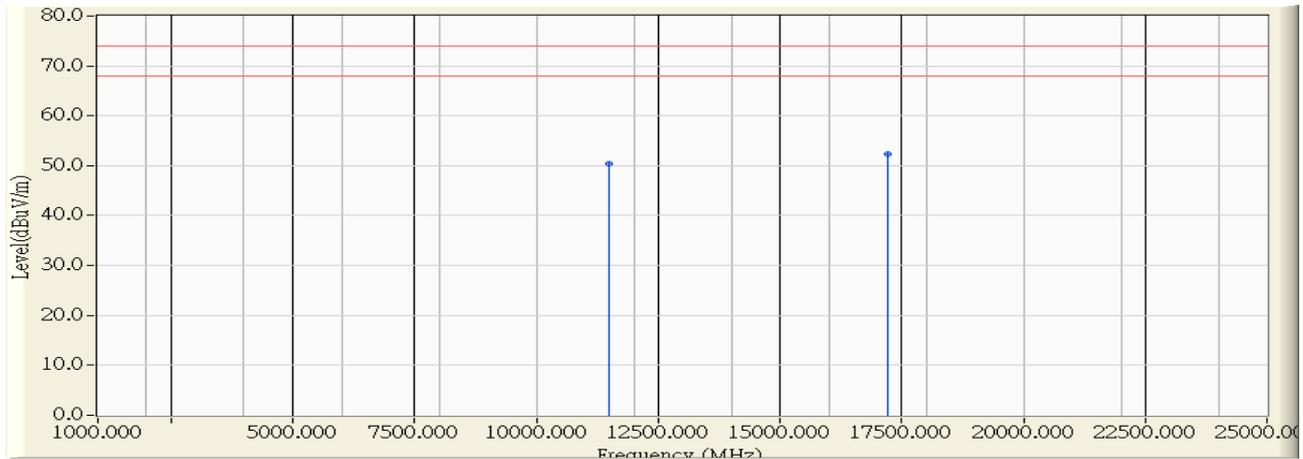


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	4910.100	-0.577	38.910	38.333	-35.667	54.000	74.000	PEAK
2	7338.700	5.744	37.480	43.224	-30.776	54.000	74.000	PEAK
3	* 9808.000	10.390	39.240	49.630	-24.370	54.000	74.000	PEAK
4	12245.600	11.459	37.780	49.240	-24.760	54.000	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.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/10/17 - 19:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1 FCC EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5745MHz_802.11a

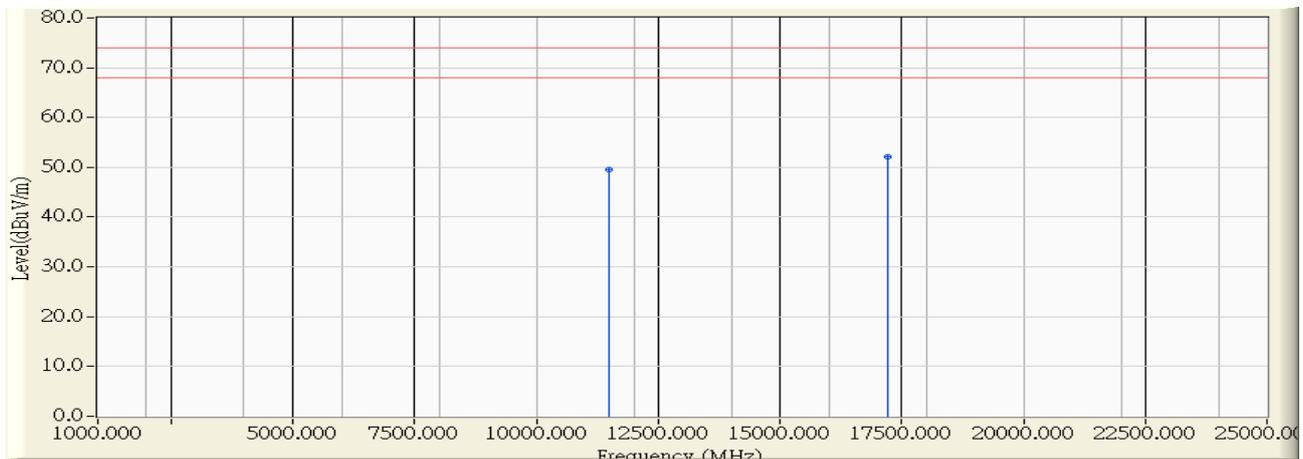


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11486.400	12.138	38.290	50.427	-23.573	54.000	74.000	PEAK
2	* 17228.300	15.713	36.560	52.273	-21.727	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5745MHz_802.11a

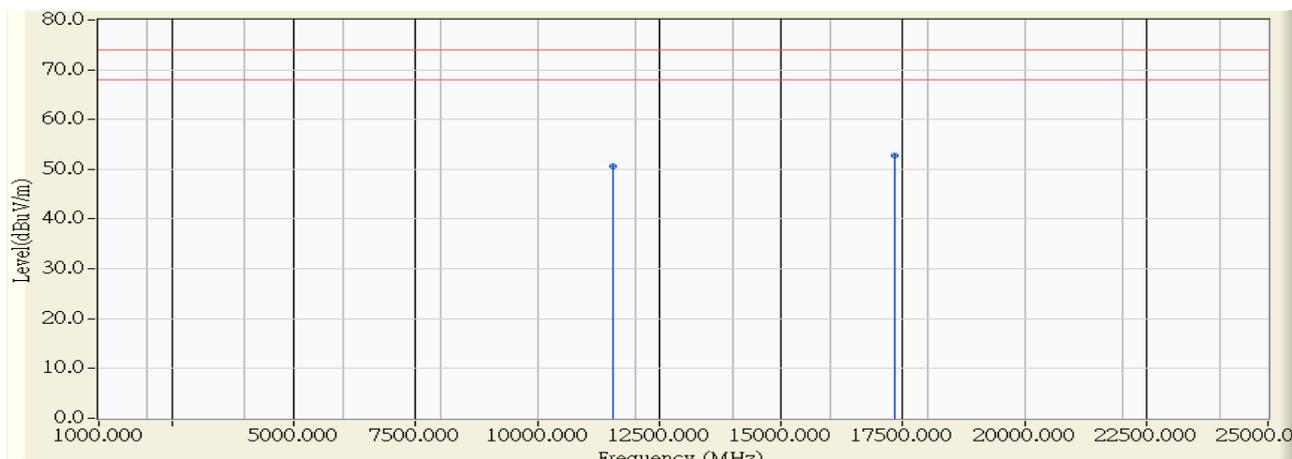


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11493.200	12.132	37.490	49.623	-24.377	54.000	74.000	PEAK
2	* 17228.100	15.712	36.390	52.102	-21.898	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz_802.11a

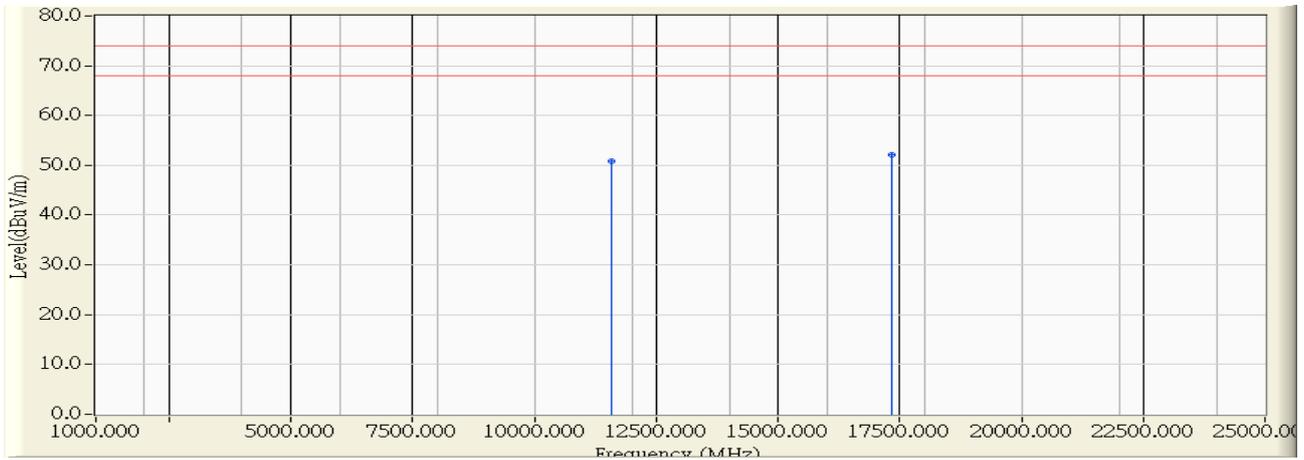


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11560.800	12.059	38.580	50.639	-23.361	54.000	74.000	PEAK
2	* 17339.500	16.165	36.520	52.685	-21.315	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz_802.11a

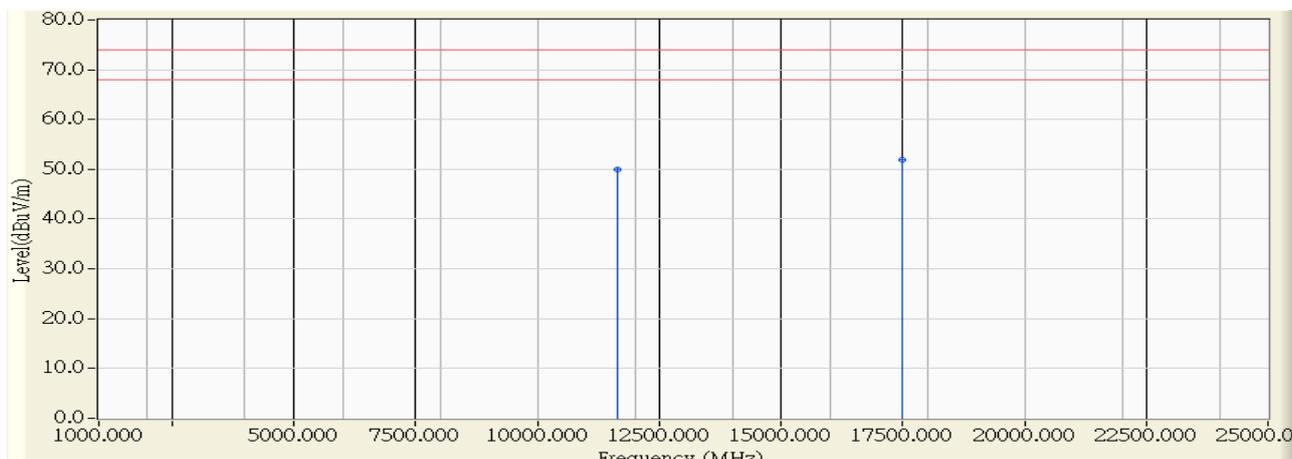


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11579.400	12.038	38.820	50.858	-23.142	54.000	74.000	PEAK
2	* 17334.600	16.145	36.010	52.155	-21.845	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:30
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5825MHz_802.11a

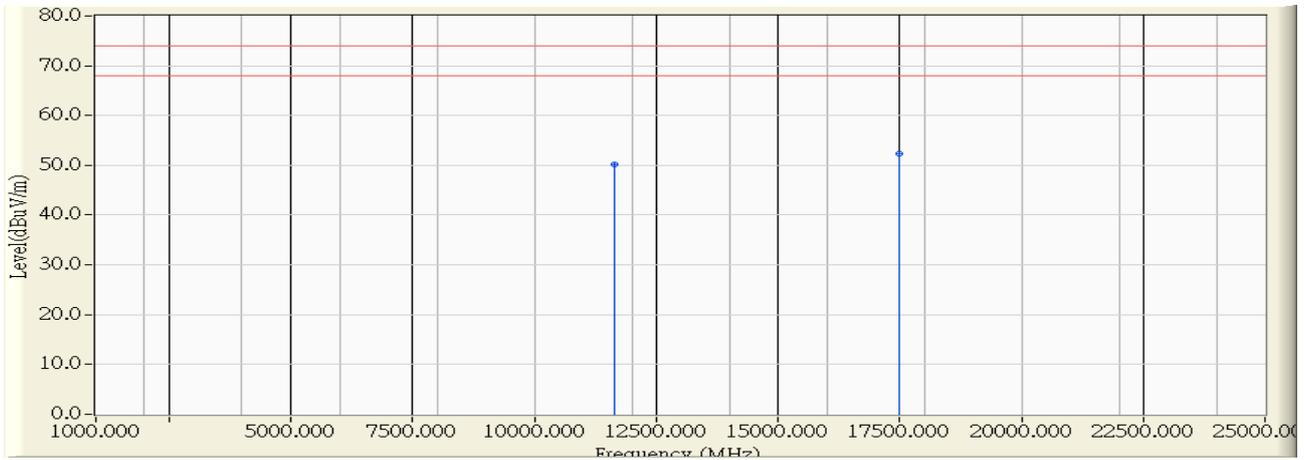


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11650.600	11.955	38.060	50.015	-23.985	54.000	74.000	PEAK
2	* 17485.500	16.759	35.250	52.009	-21.991	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5825MHz_802.11a

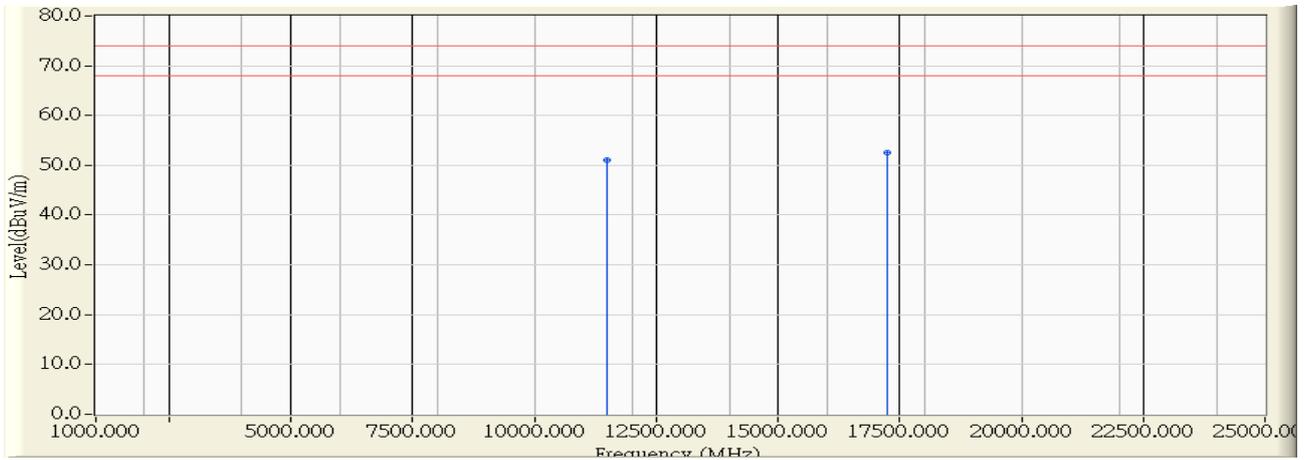


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11654.600	11.950	38.160	50.110	-23.890	54.000	74.000	PEAK
2	* 17482.200	16.745	35.500	52.246	-21.754	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5745MHz_802.11n(20M)

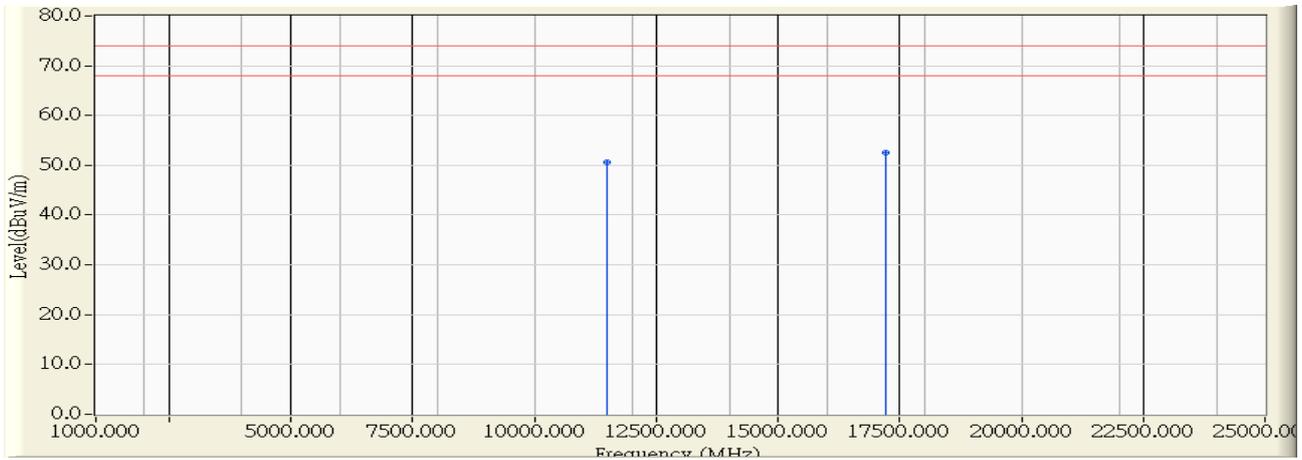


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11499.300	12.129	38.820	50.948	-23.052	54.000	74.000	PEAK
2	* 17246.100	15.786	36.750	52.535	-21.465	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5745MHz_802.11n(20M)

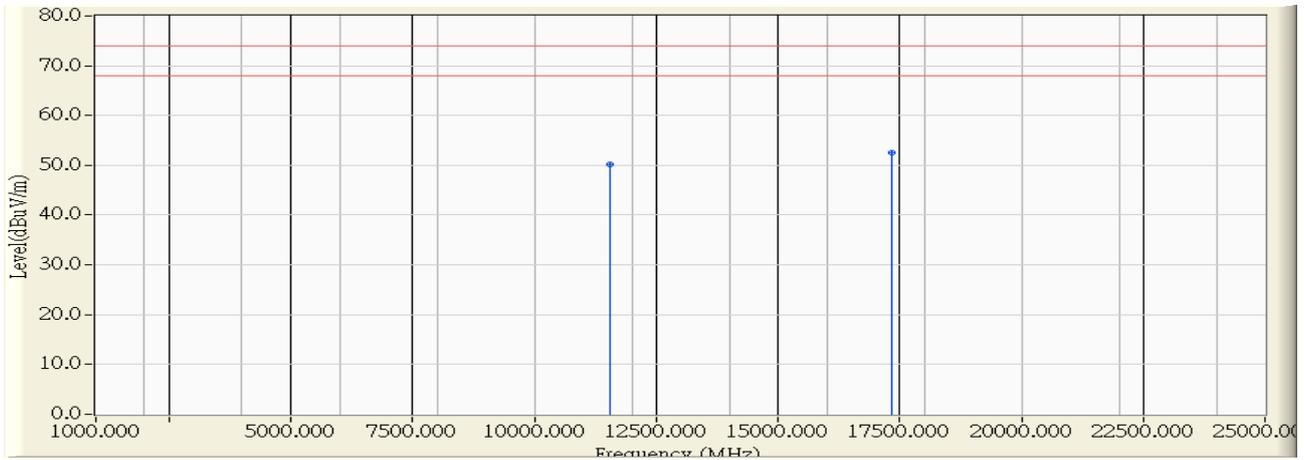


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11485.600	12.138	38.380	50.518	-23.482	54.000	74.000	PEAK
2	* 17224.600	15.698	36.820	52.518	-21.482	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz_802.11n(20M)

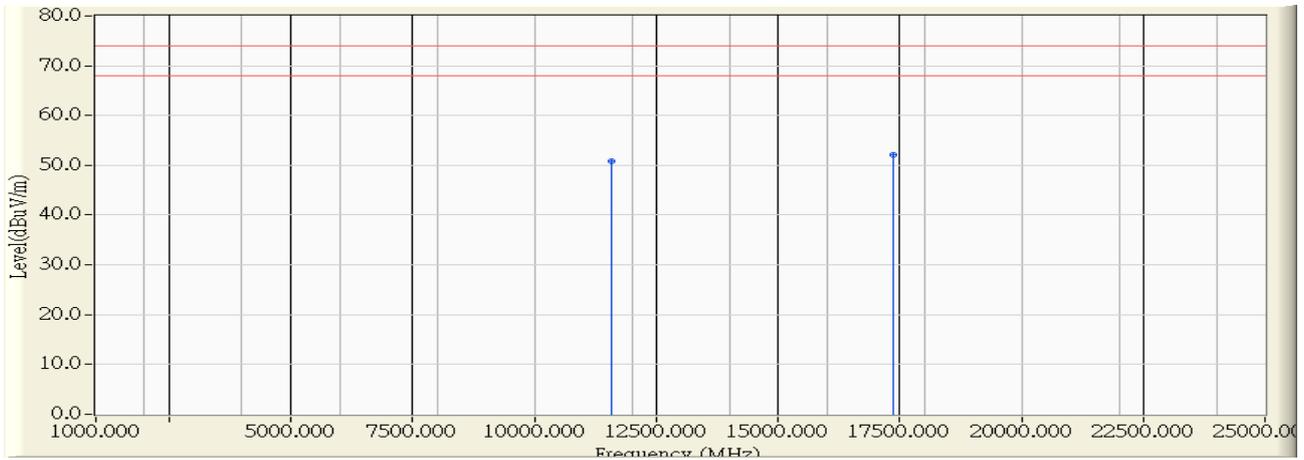


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11554.500	12.067	38.130	50.197	-23.803	54.000	74.000	PEAK
2	* 17338.900	16.162	36.480	52.643	-21.357	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5785MHz_802.11n(20M)

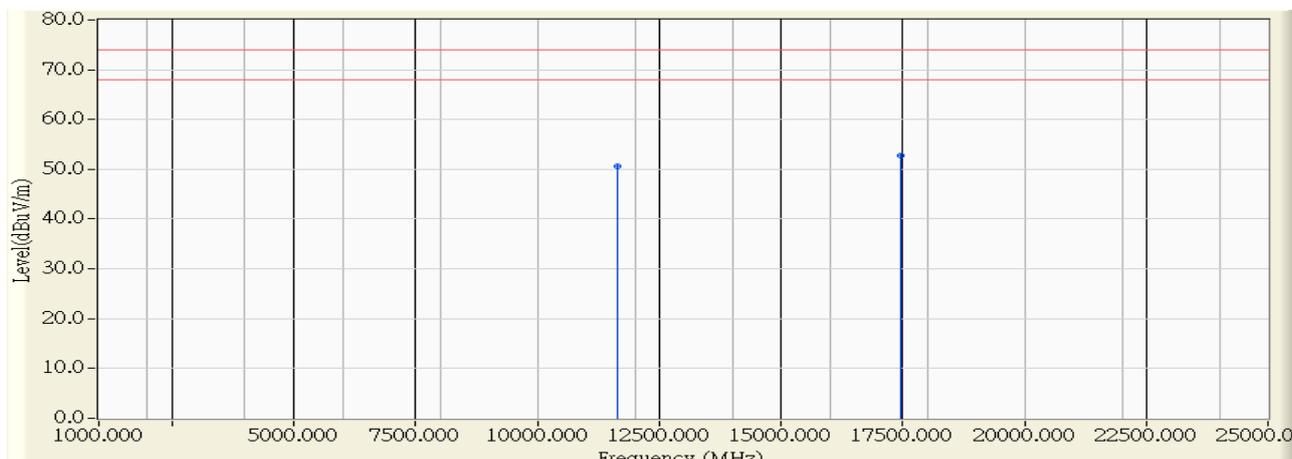


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11594.100	12.021	38.720	50.741	-23.259	54.000	74.000	PEAK
2	* 17354.200	16.225	36.000	52.225	-21.775	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5825MHz_802.11n(20M)

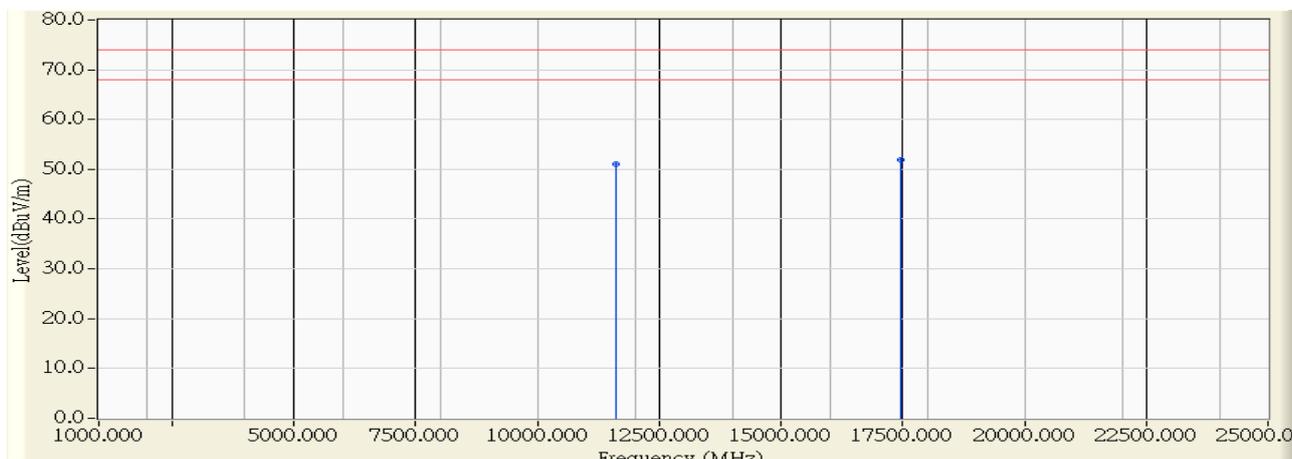


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11638.300	11.969	38.700	50.669	-23.331	54.000	74.000	PEAK
2	* 17456.500	16.641	36.050	52.691	-21.309	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:38
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5825MHz_802.11n(20M)

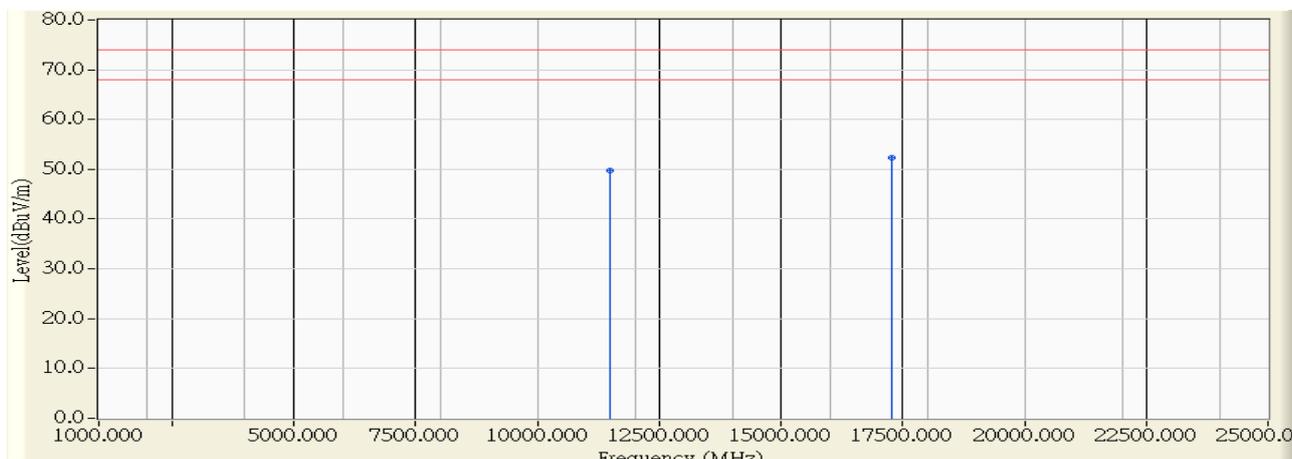


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11628.600	11.980	38.960	50.941	-23.059	54.000	74.000	PEAK
2	* 17459.800	16.654	35.350	52.004	-21.996	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5755MHz_802.11n(40M)

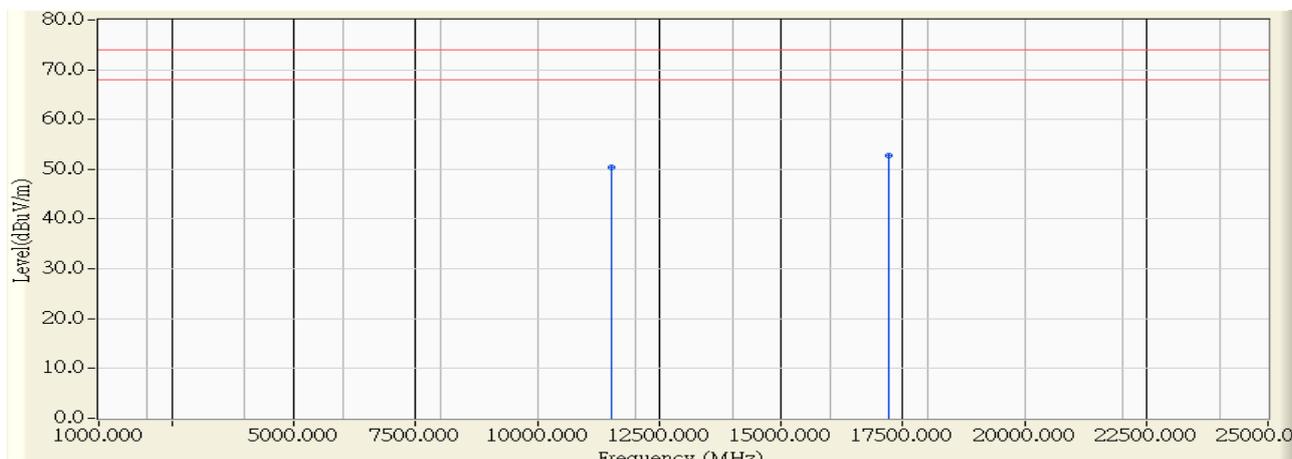


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11507.000	12.122	37.690	49.812	-24.188	54.000	74.000	PEAK
2	* 17281.400	15.929	36.480	52.409	-21.591	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:41
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5755MHz_802.11n(40M)

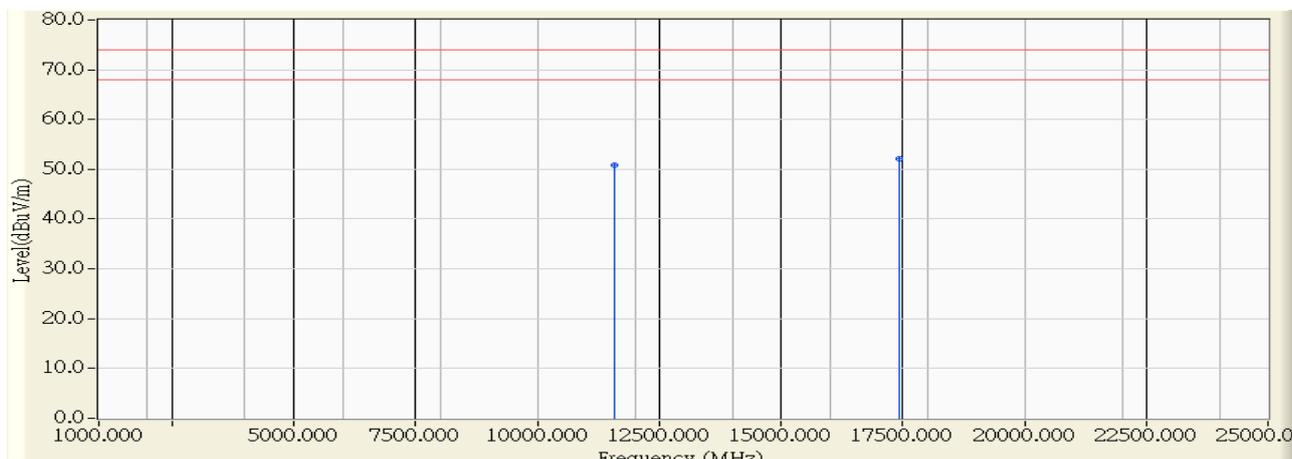


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11531.400	12.094	38.370	50.463	-23.537	54.000	74.000	PEAK
2	* 17226.000	15.704	37.160	52.864	-21.136	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5795MHz_802.11n(40M)

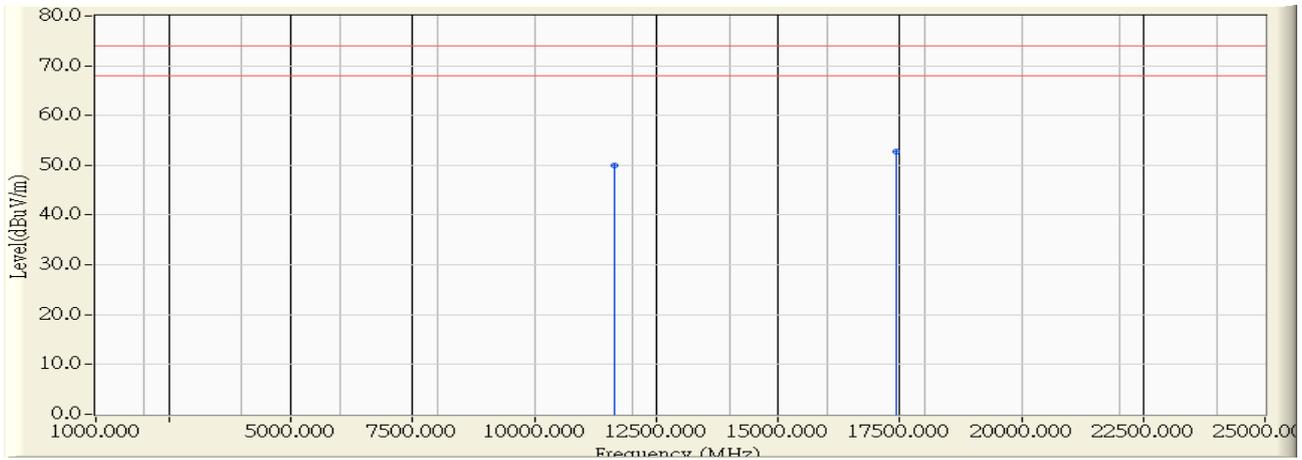


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11593.000	12.021	38.760	50.782	-23.218	54.000	74.000	PEAK
2	* 17419.400	16.490	35.620	52.110	-21.890	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5795MHz_802.11n(40M)

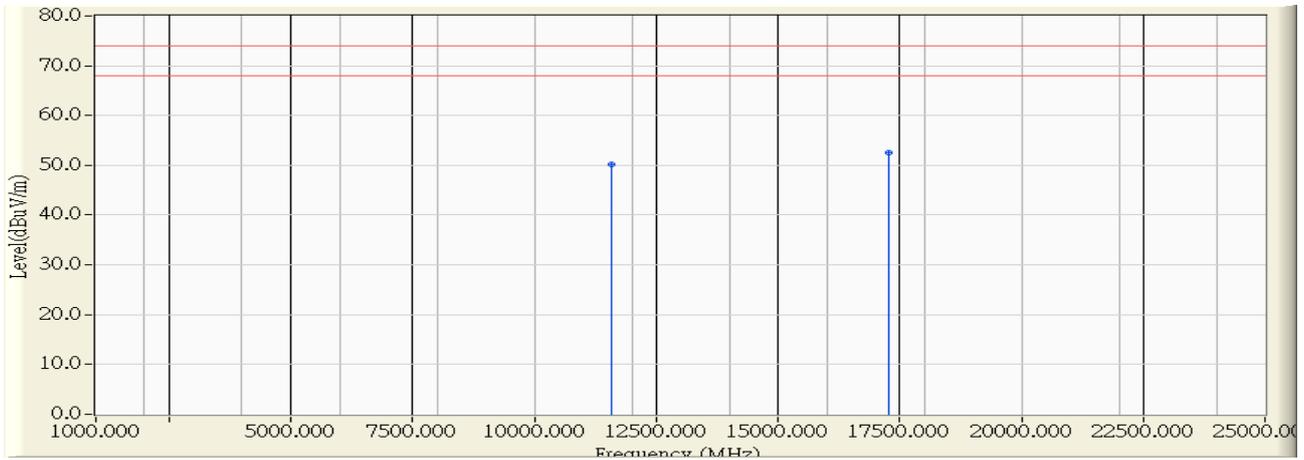


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11635.600	11.972	37.960	49.933	-24.067	54.000	74.000	PEAK
2	* 17429.400	16.530	36.160	52.691	-21.309	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:47
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz_802.11ac(80M)

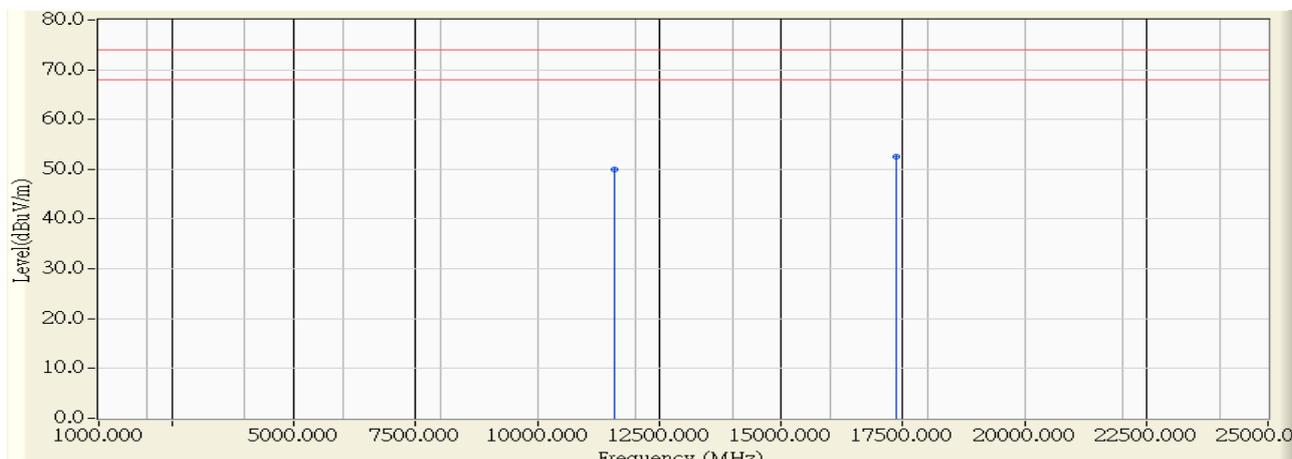


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11590.000	12.025	38.120	50.145	-23.855	54.000	74.000	PEAK
2	* 17277.400	15.913	36.530	52.443	-21.557	54.000	74.000	PEAK

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

Site : CB1	Time : 2012/10/17 - 19:48
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 5775MHz_802.11ac(80M)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Peak Limit (dBuV/m)	Detector Type
1	11589.000	12.026	38.010	50.037	-23.963	54.000	74.000	PEAK
2	* 17368.600	16.284	36.260	52.544	-21.456	54.000	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.
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:

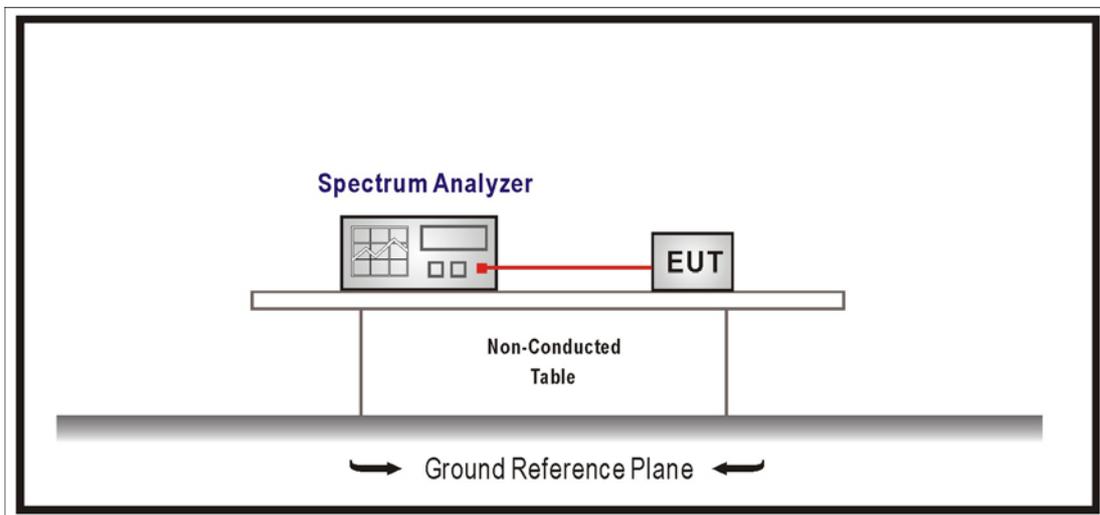
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 Jan. 2012 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: 2011

5.6. Uncertainty

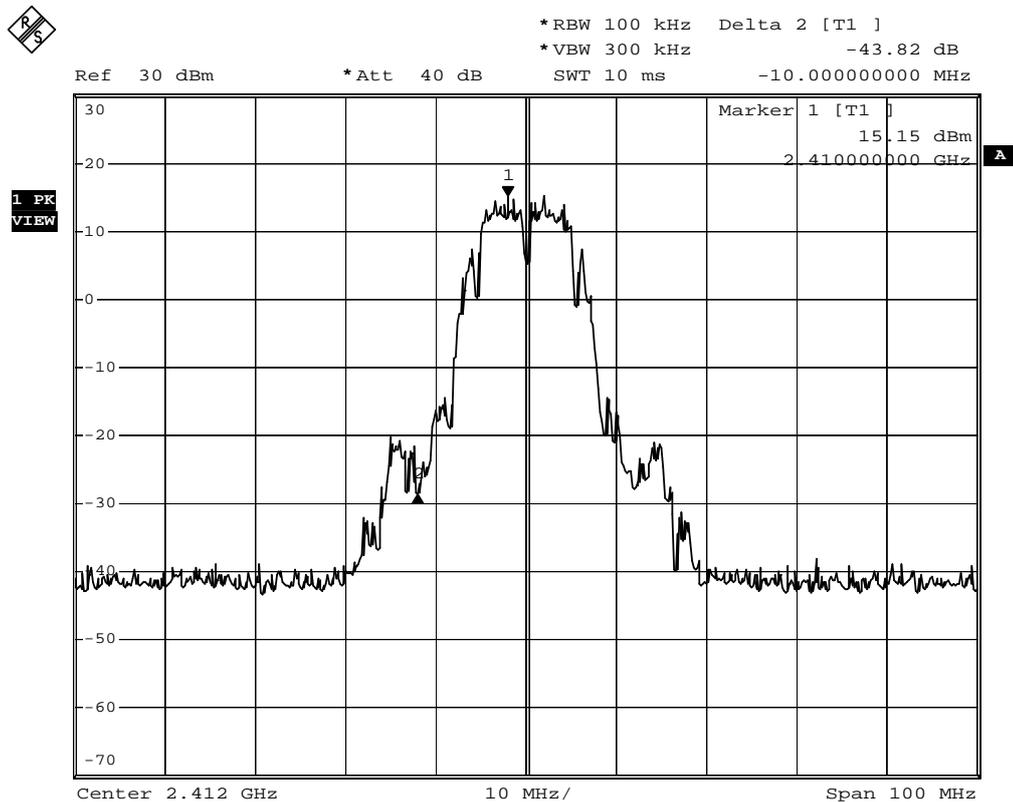
Conducted is defined as ± 1.27 dB

5.7. Test Result

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

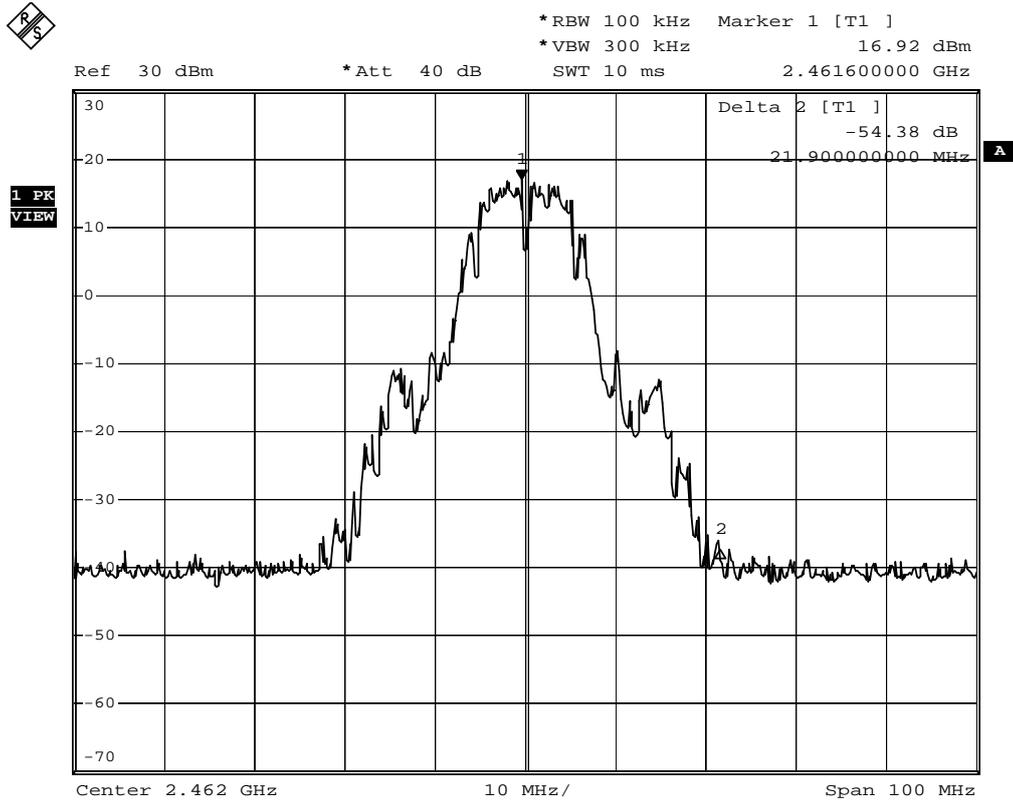
IEEE 802.11b, Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.82	≥20	Pass
11	2462	54.38	≥20	Pass

Channel 01 (2412MHz)



Comment: A:\2
Date: 15.OCT.2012 19:09:31

Channel 11 (2462MHz)

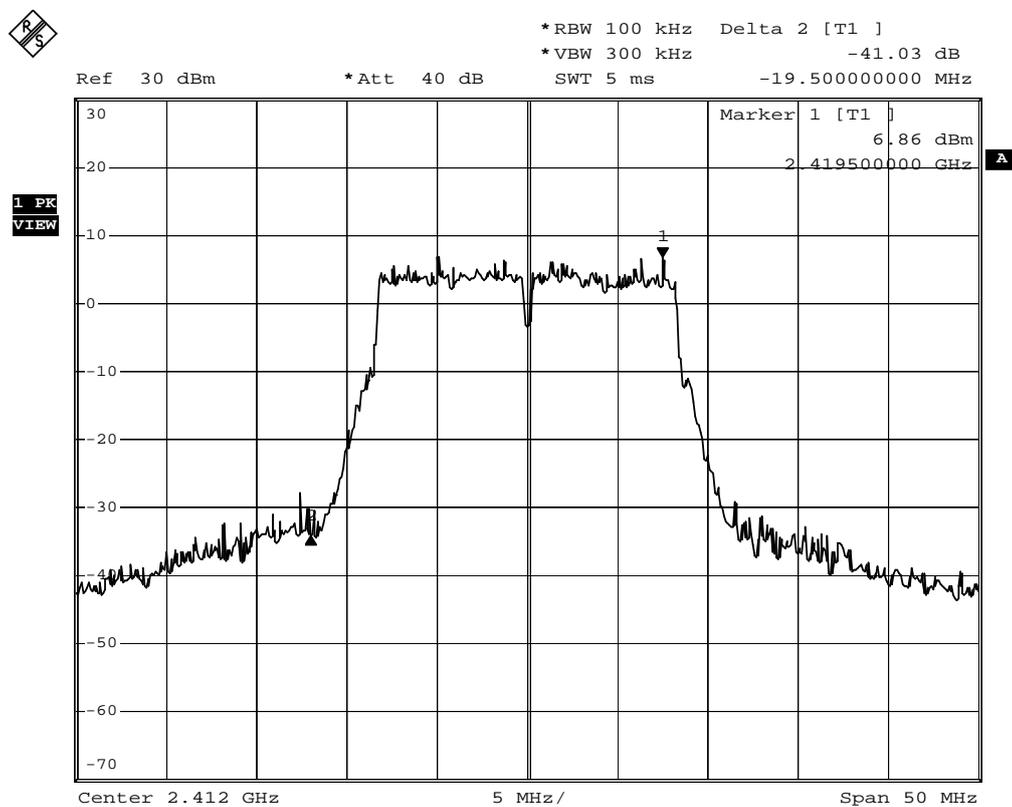


Comment: A:\2
 Date: 15.OCT.2012 19:08:27

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11g, Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.03	≥20	Pass
11	2462	47.23	≥20	Pass

Channel 01 (2412MHz)



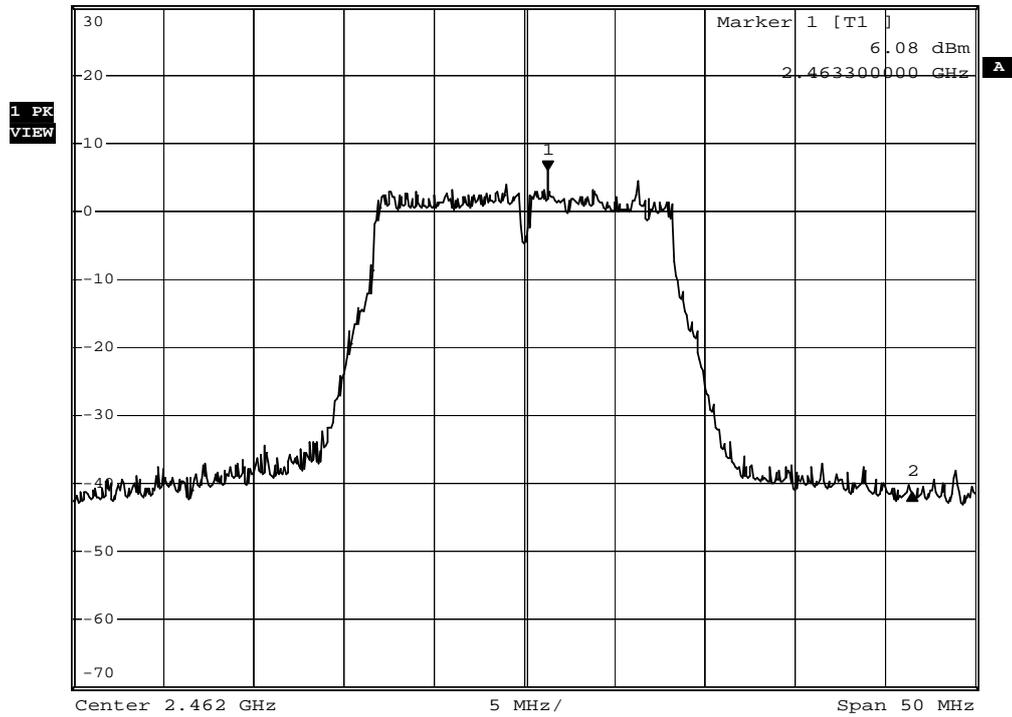
Comment: A:\2
 Date: 15.OCT.2012 19:06:13

Channel 11 (2462MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -47.23 dB
SWT 5 ms 20.20000000 MHz

Ref 30 dBm *Att 40 dB

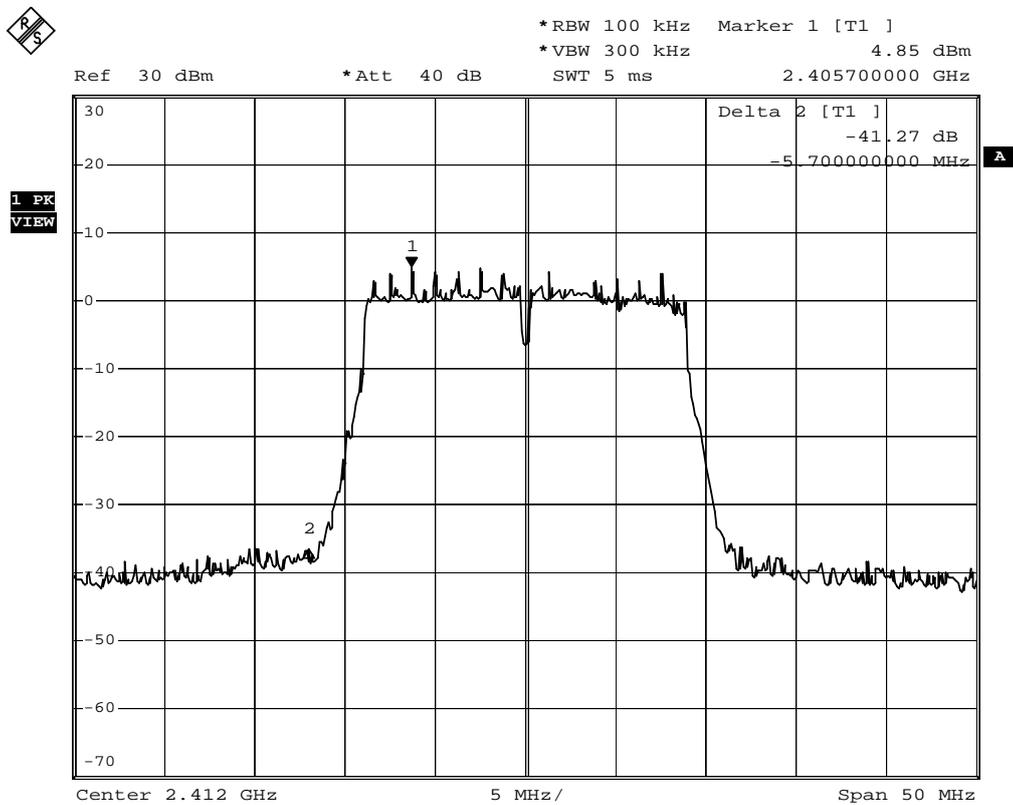


Comment: A:\2
Date: 15.OCT.2012 19:07:06

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) , Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.27	≥20	Pass
11	2462	44.62	≥20	Pass

Channel 1 (2412MHz)



Comment: A:\2
 Date: 15.OCT.2012 19:02:58

Channel 11 (2462MHz)



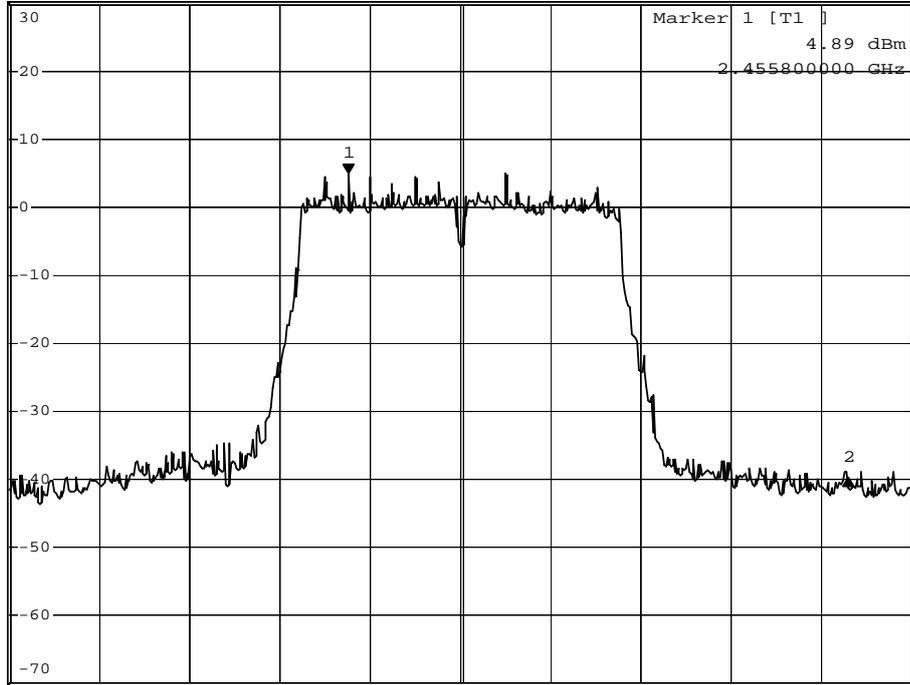
*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -44.62 dB
SWT 5 ms 27.70000000 MHz

Ref 30 dBm

*Att 40 dB

27.70000000 MHz

1 PK
VIEW



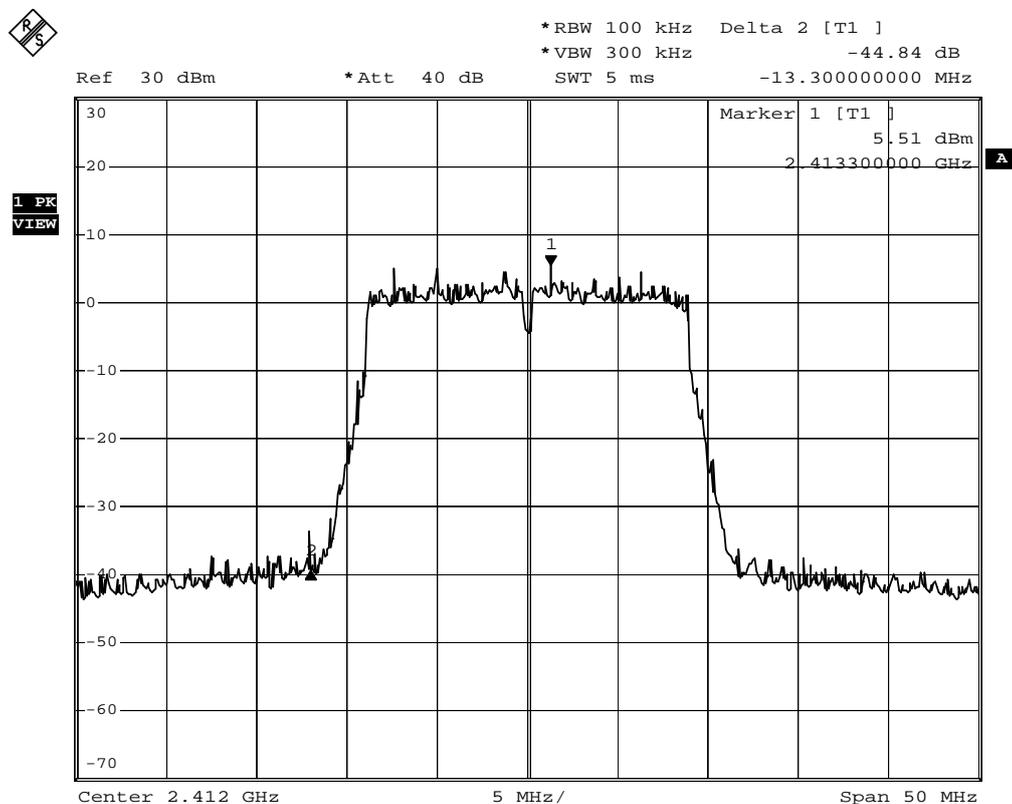
Comment: A:\2

Date: 15.OCT.2012 18:59:29

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1) , Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.84	≥20	Pass
11	2462	44.08	≥20	Pass

Channel 1 (2412MHz)



Comment: A:\2
 Date: 15.OCT.2012 19:02:18

Channel 11 (2462MHz)



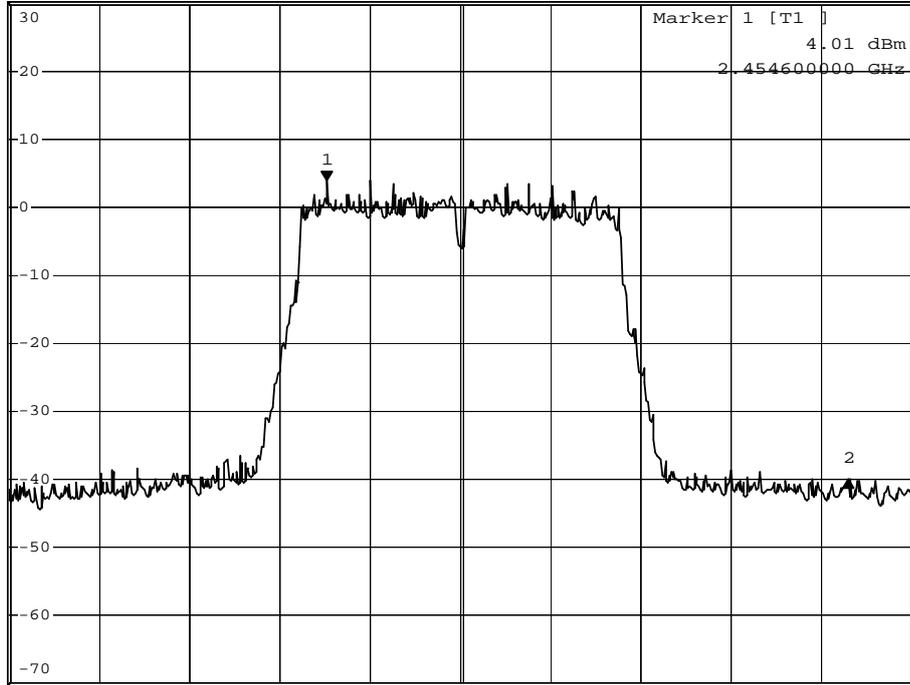
*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -44.08 dB
SWT 5 ms 28.900000000 MHz

Ref 30 dBm

*Att 40 dB

28.900000000 MHz

1 PK
VIEW



Center 2.462 GHz

5 MHz/

Span 50 MHz

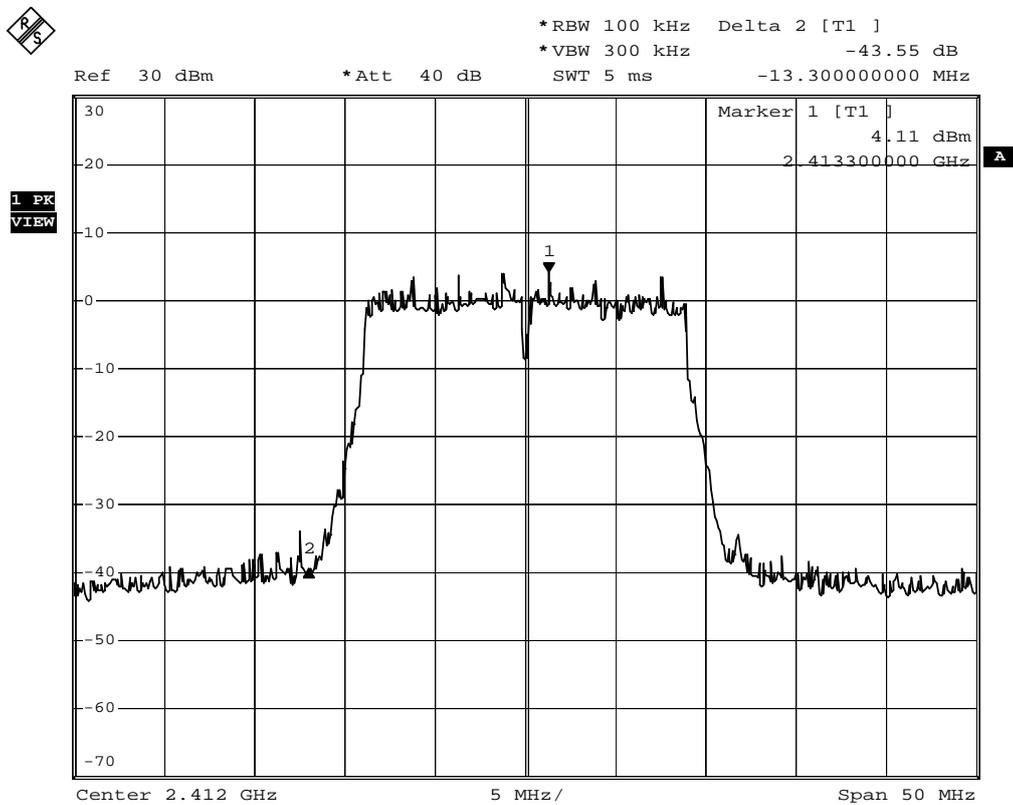
Comment: A:\2

Date: 15.OCT.2012 19:00:14

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 2) , Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.55	≥20	Pass
11	2462	45.48	≥20	Pass

Channel 1 (2412MHz)



Comment: A:\2
 Date: 15.OCT.2012 19:01:33

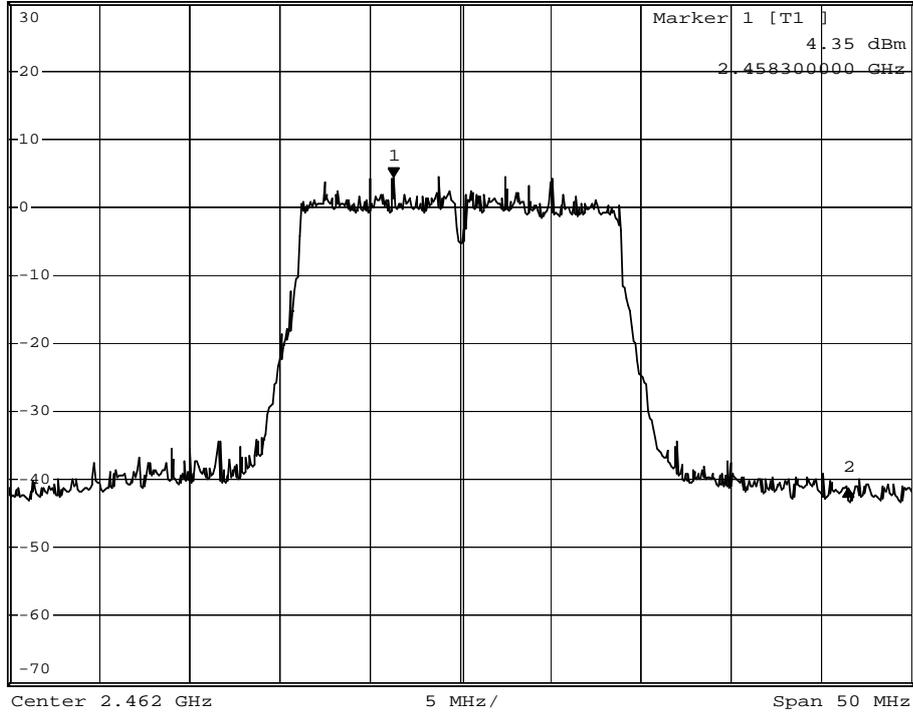
Channel 11 (2462MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -45.48 dB
SWT 5 ms 25.20000000 MHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW

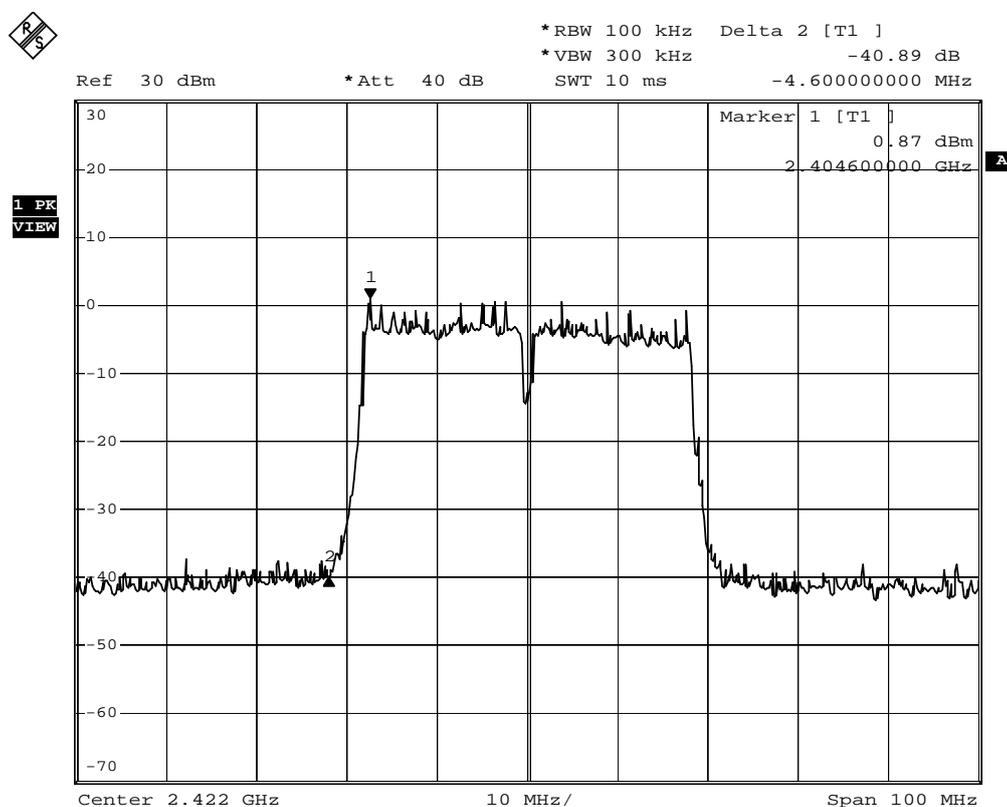


Comment: A:\2
Date: 15.OCT.2012 19:00:50

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) , Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.89	≥20	Pass
9	2452	42.44	≥20	Pass

Channel 3 (2422MHz)



Comment: A:\2
 Date: 15.OCT.2012 18:52:32

Channel 9 (2452MHz)



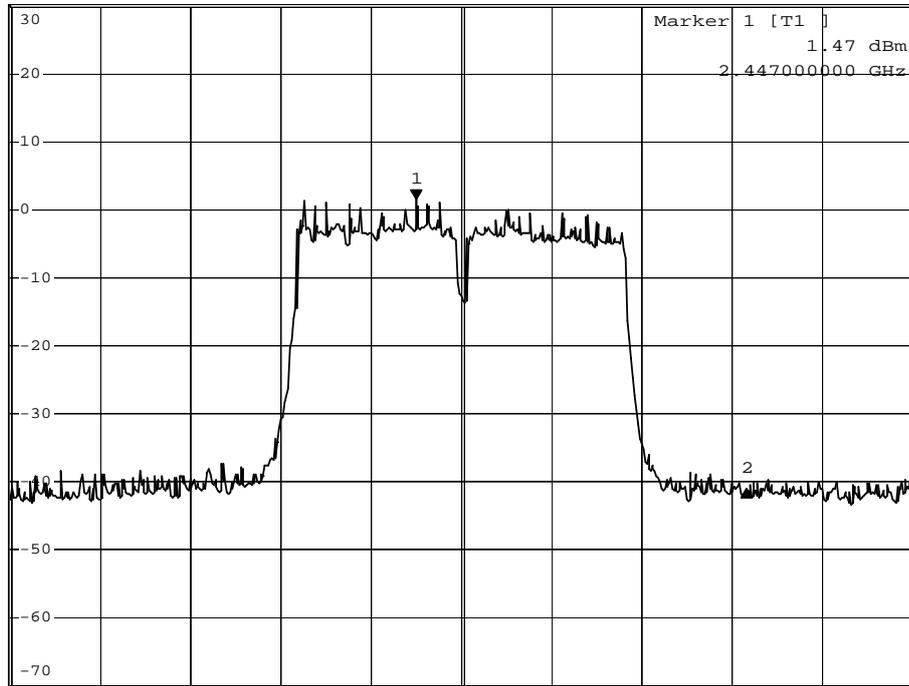
*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -42.44 dB
 SWT 10 ms 36.50000000 MHz

Ref 30 dBm

*Att 40 dB

Marker 1 [T1]
 1.47 dBm
 2.447000000 GHz

1 PK
 VIEW



Center 2.452 GHz

10 MHz/

Span 100 MHz

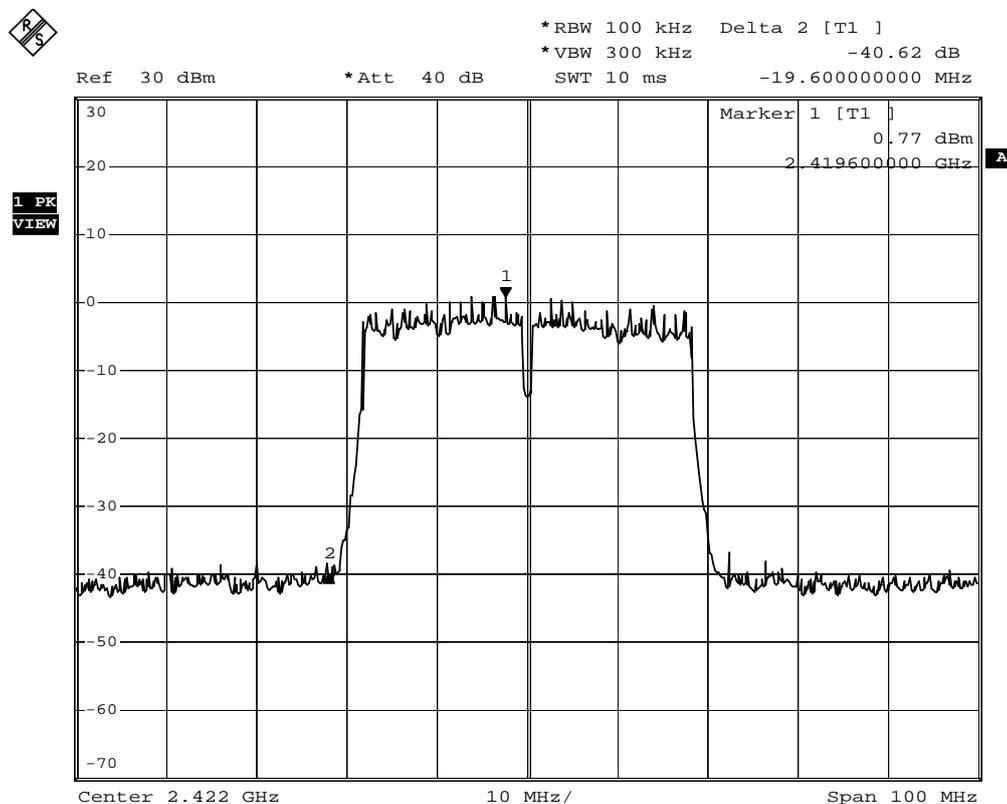
Comment: A:\2

Date: 15.OCT.2012 18:57:03

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1), Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.62	≥20	Pass
9	2452	42.15	≥20	Pass

Channel 3 (2422MHz)



Comment: A:\2
 Date: 15.OCT.2012 18:53:49

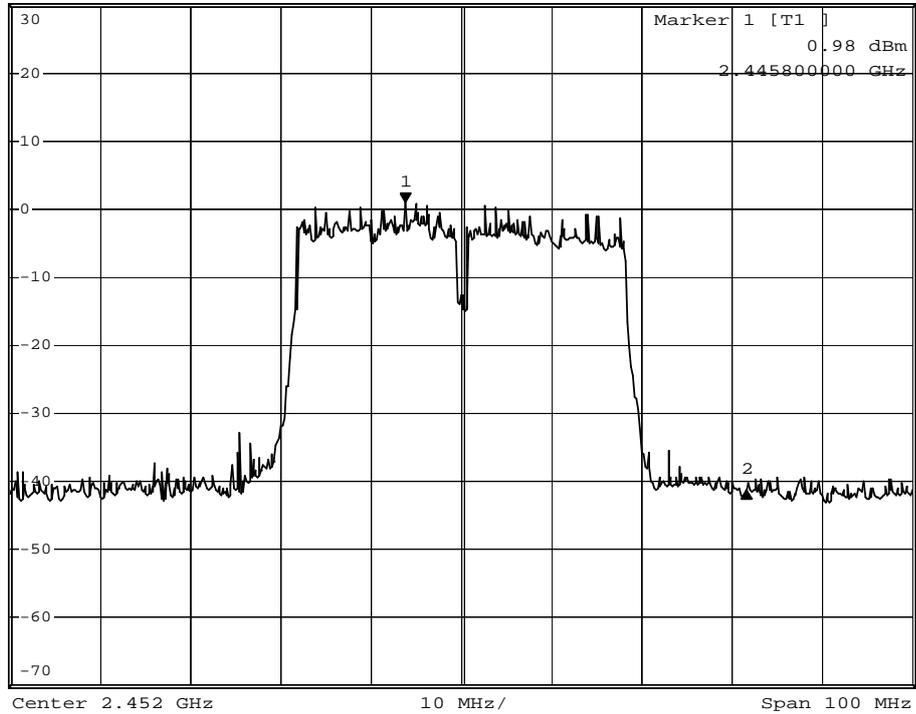
Channel 9 (2452MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -42.15 dB
SWT 10 ms 37.70000000 MHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW

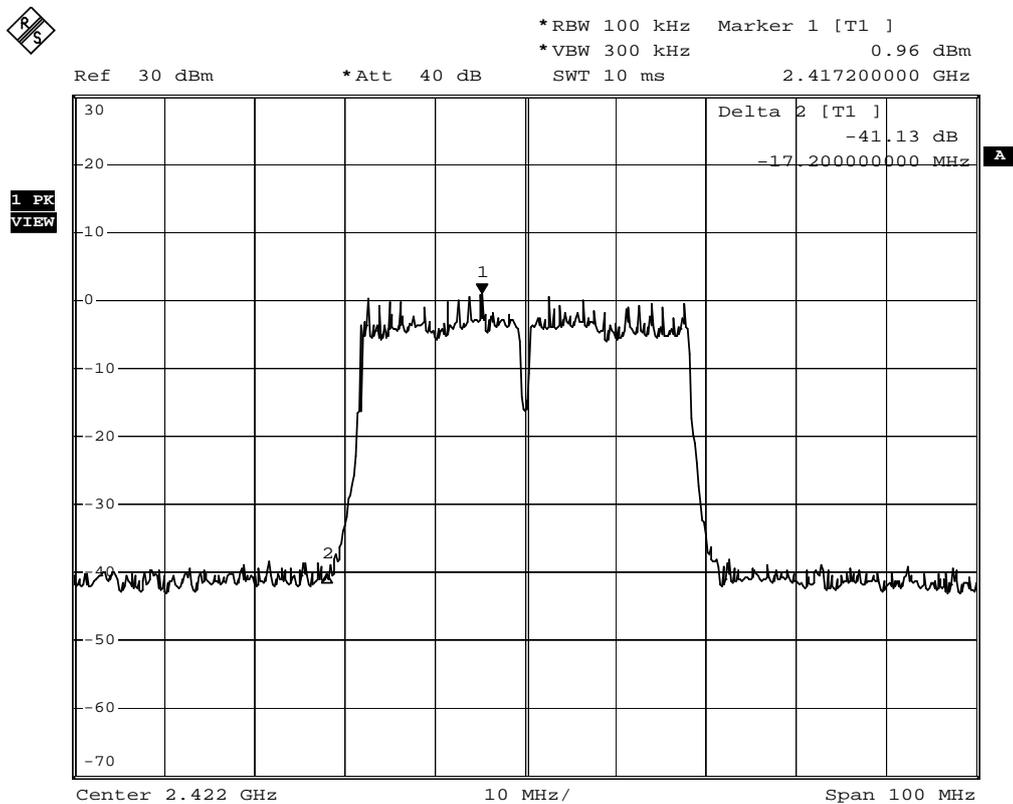


Comment: A:\2
Date: 15.OCT.2012 18:56:17

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 2) , Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.13	≥20	Pass
9	2452	41.24	≥20	Pass

Channel 3 (2422MHz)



Comment: A:\2
 Date: 15.OCT.2012 18:54:31

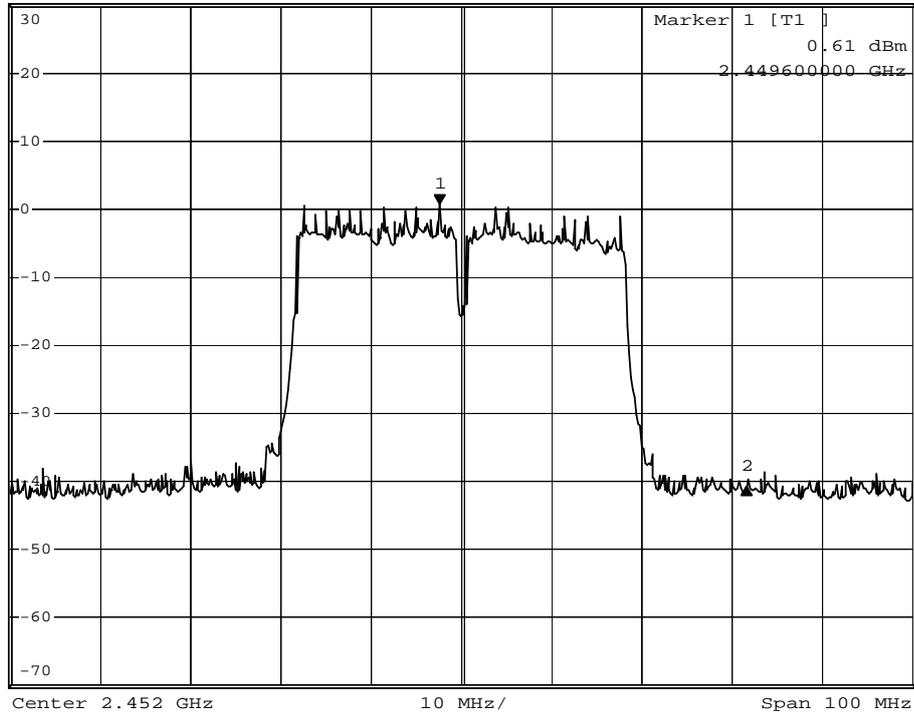
Channel 9 (2452MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -41.24 dB
SWT 10 ms 33.900000000 MHz

Ref 30 dBm *Att 40 dB

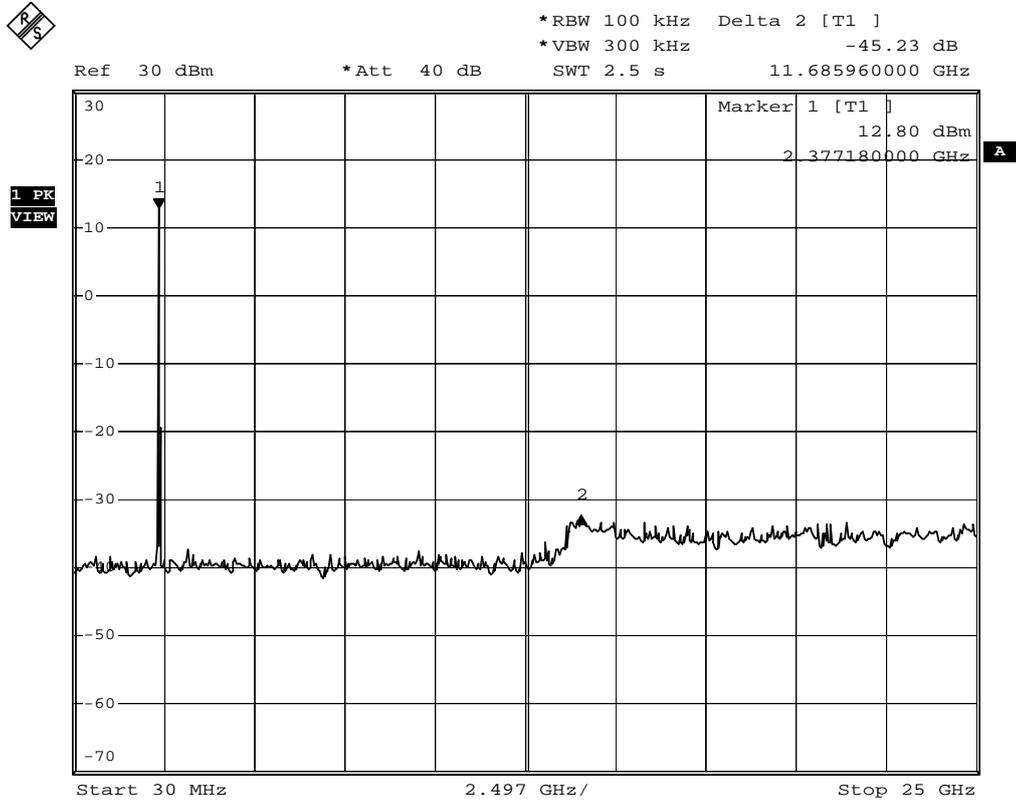
1 PK
VIEW



Comment: A:\2
Date: 15.OCT.2012 18:55:29

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

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



Comment: A:\2
 Date: 15.OCT.2012 19:10:28

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



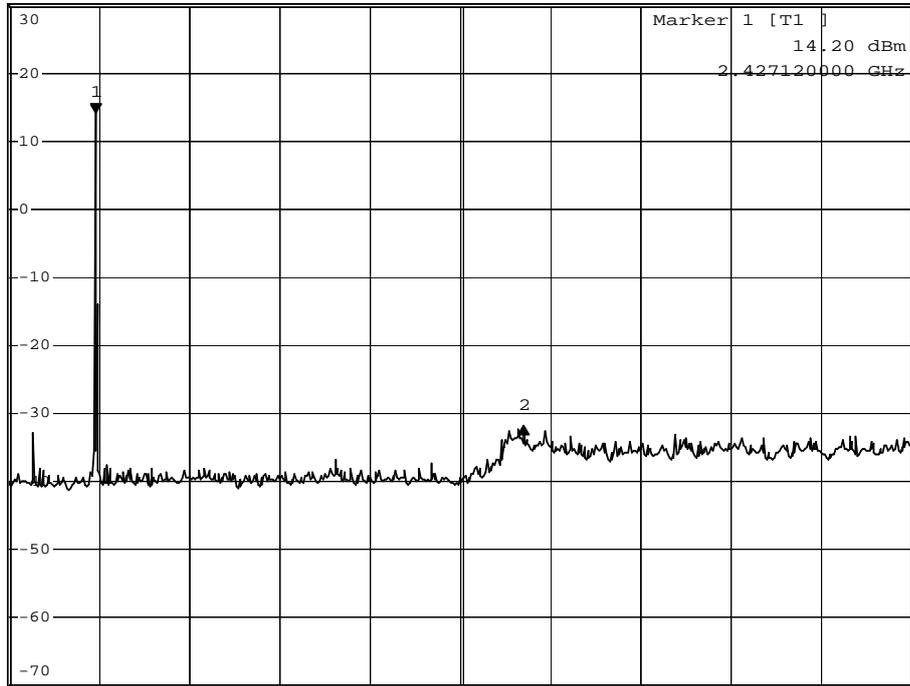
*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -45.88 dB
 SWT 2.5 s 11.835780000 GHz

Ref 30 dBm

*Att 40 dB

11.835780000 GHz

1 PK
VIEW



Start 30 MHz

2.497 GHz/

Stop 25 GHz

Comment: A:\2

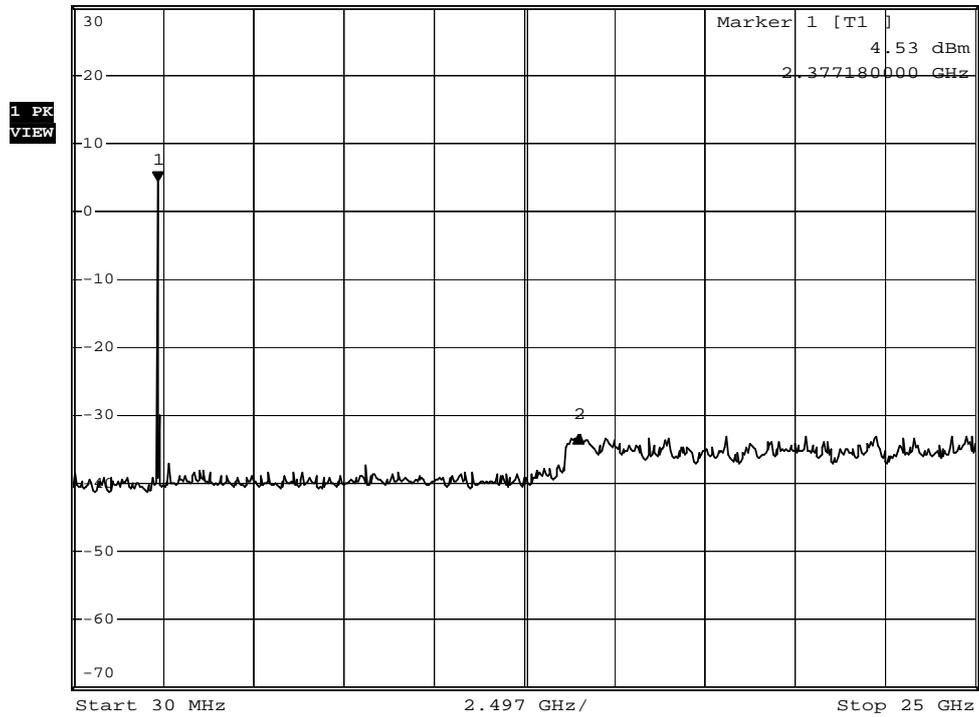
Date: 15.OCT.2012 19:11:08

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



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -37.45 dB
SWT 2.5 s 11.636020000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
Date: 15.OCT.2012 19:11:43

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



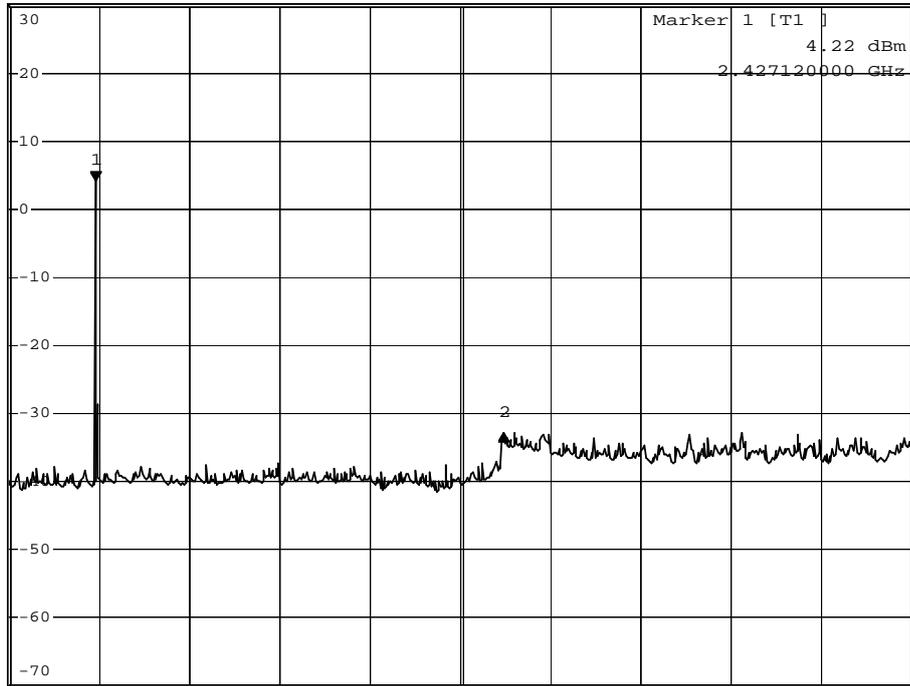
*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -37.00 dB
SWT 2.5 s 11.286440000 GHz

Ref 30 dBm

*Att 40 dB

11.286440000 GHz

1 PK
VIEW



Start 30 MHz

2.497 GHz/

Stop 25 GHz

Marker	1 [T1]	*
	4.22 dBm	
2	2.427120000 GHz	A

Comment: A:\2

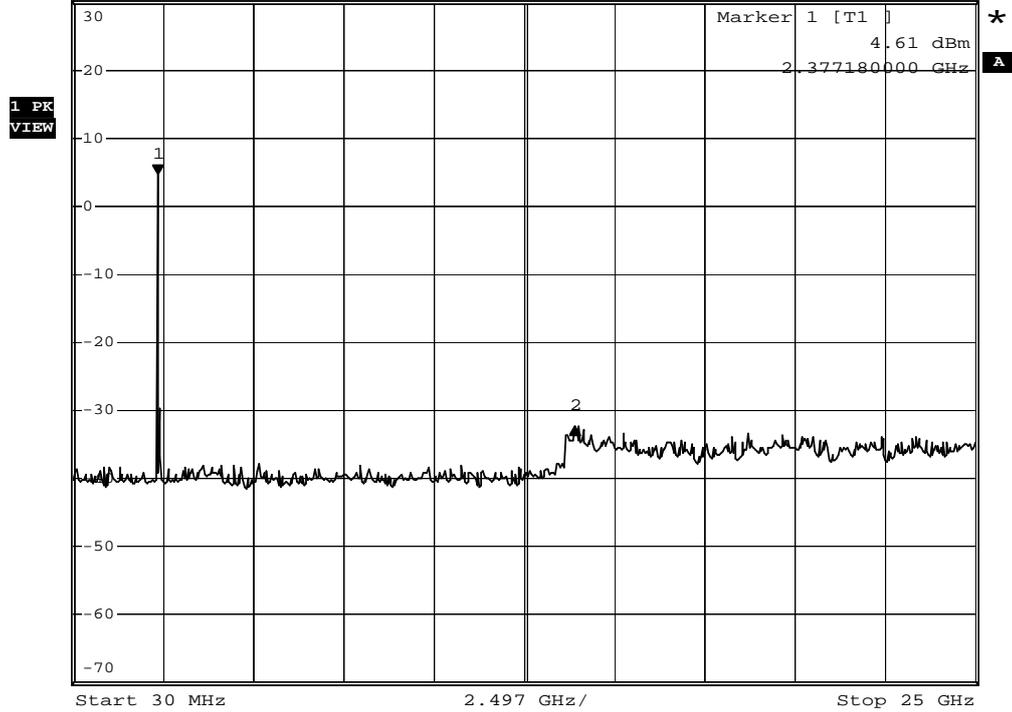
Date: 15.OCT.2012 19:12:37

2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -36.83 dB
 SWT 2.5 s 11.536140000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 15.OCT.2012 19:13:36

2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0

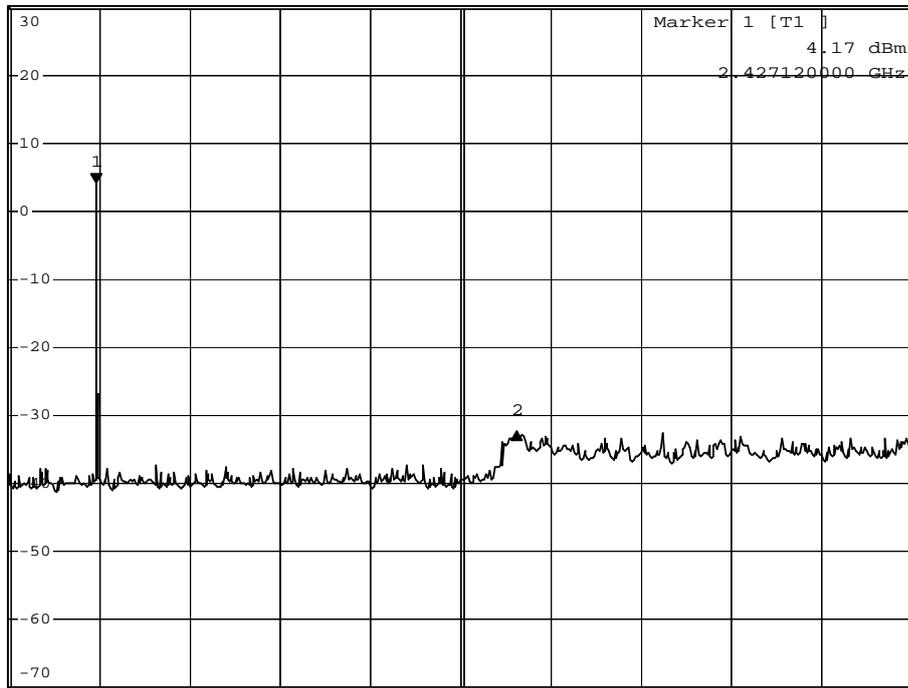


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -36.55 dB
SWT 2.5 s 11.636020000 GHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



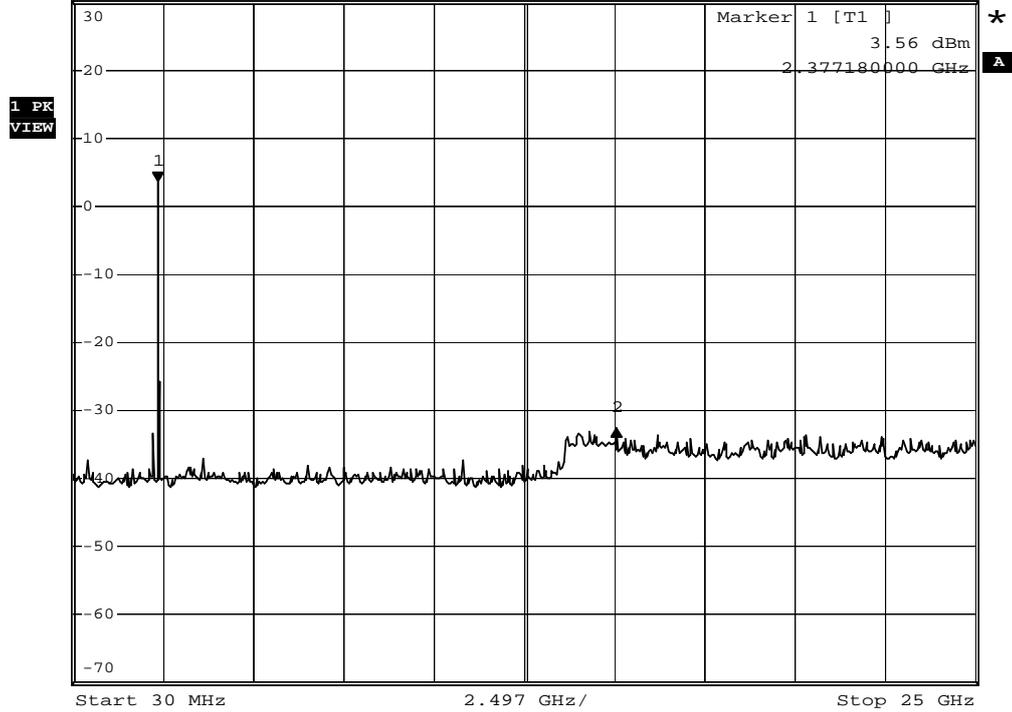
Comment: A:\2
Date: 15.OCT.2012 19:18:13

2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -36.14 dB
 SWT 2.5 s 12.684760000 GHz

Ref 30 dBm *Att 40 dB



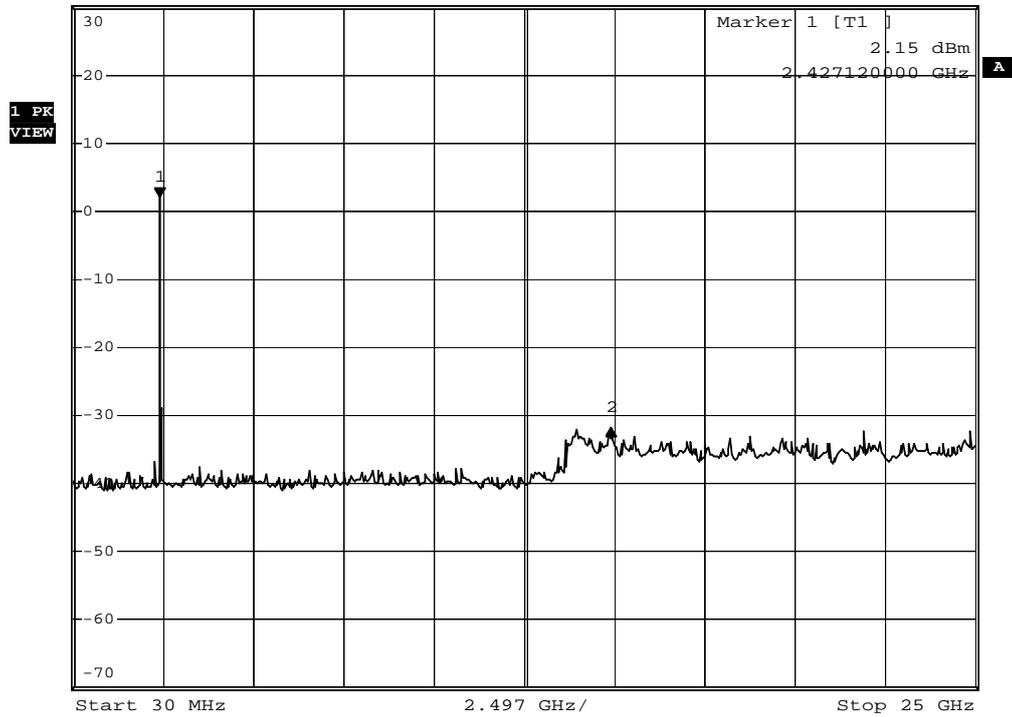
Comment: A:\2
 Date: 15.OCT.2012 19:14:34

2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -34.02 dB
SWT 2.5 s 12.485000000 GHz

Ref 30 dBm *Att 40 dB



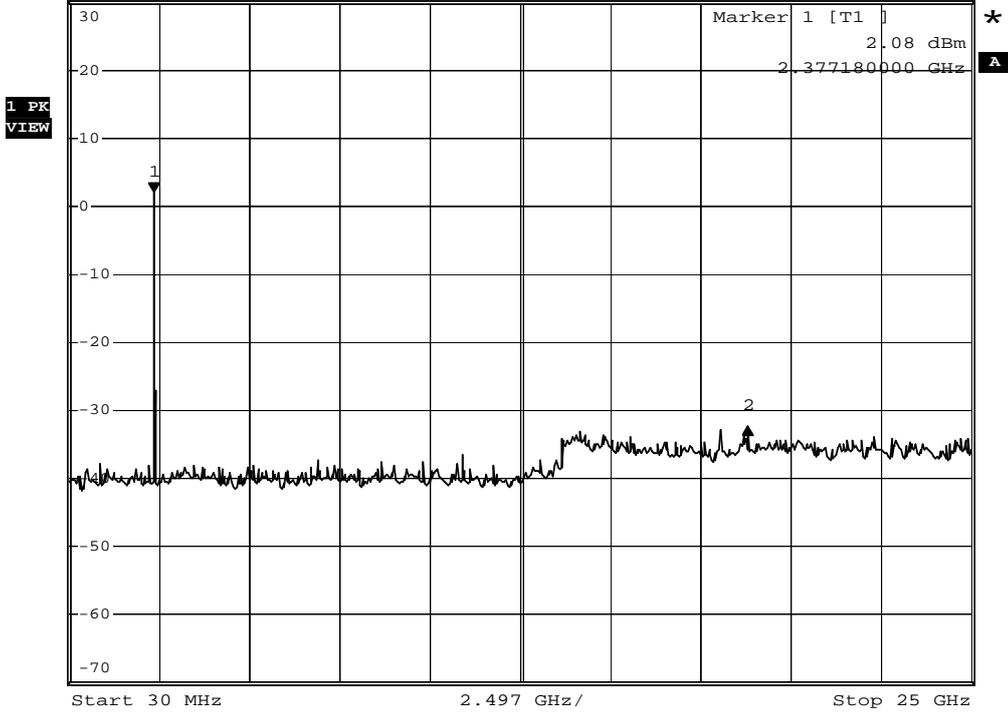
Comment: A:\2
Date: 15.OCT.2012 19:17:21

2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 2



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -34.48 dB
 SWT 2.5 s 16.430260000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 15.OCT.2012 19:15:25

2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 2



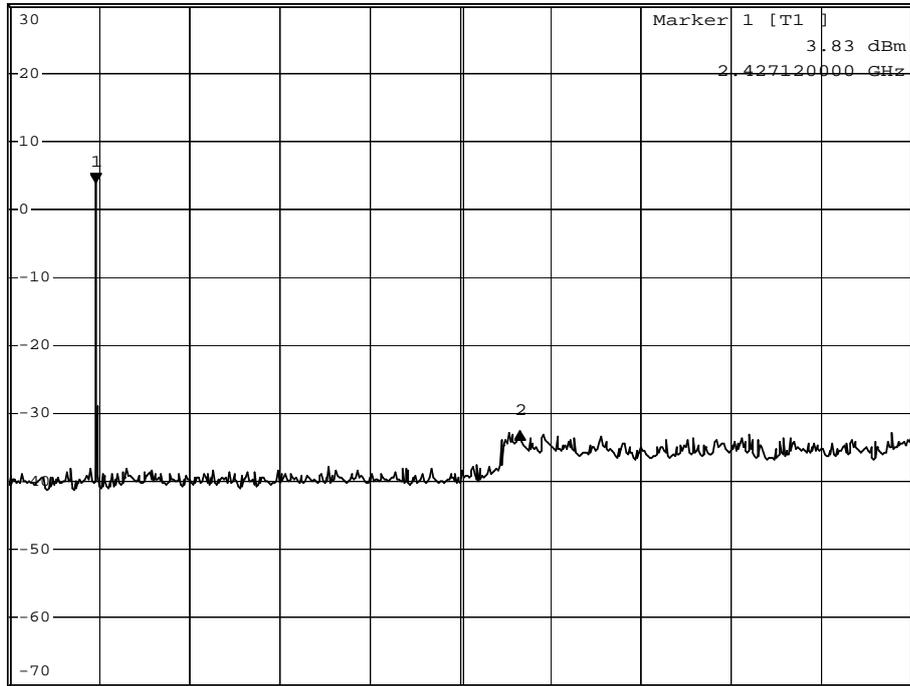
*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -36.37 dB
 SWT 2.5 s 11.735900000 GHz

Ref 30 dBm

*Att 40 dB

11.735900000 GHz

1 PK
VIEW



Start 30 MHz

2.497 GHz/

Stop 25 GHz

Comment: A:\2

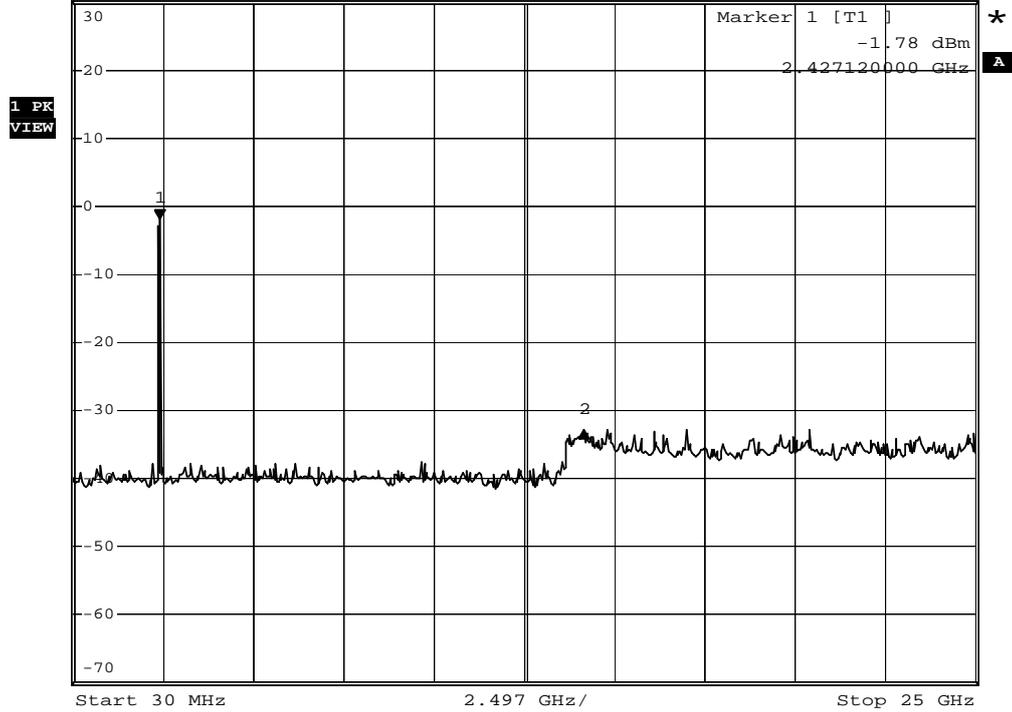
Date: 15.OCT.2012 19:16:18

2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -31.05 dB
SWT 2.5 s 11.735900000 GHz

Ref 30 dBm *Att 40 dB



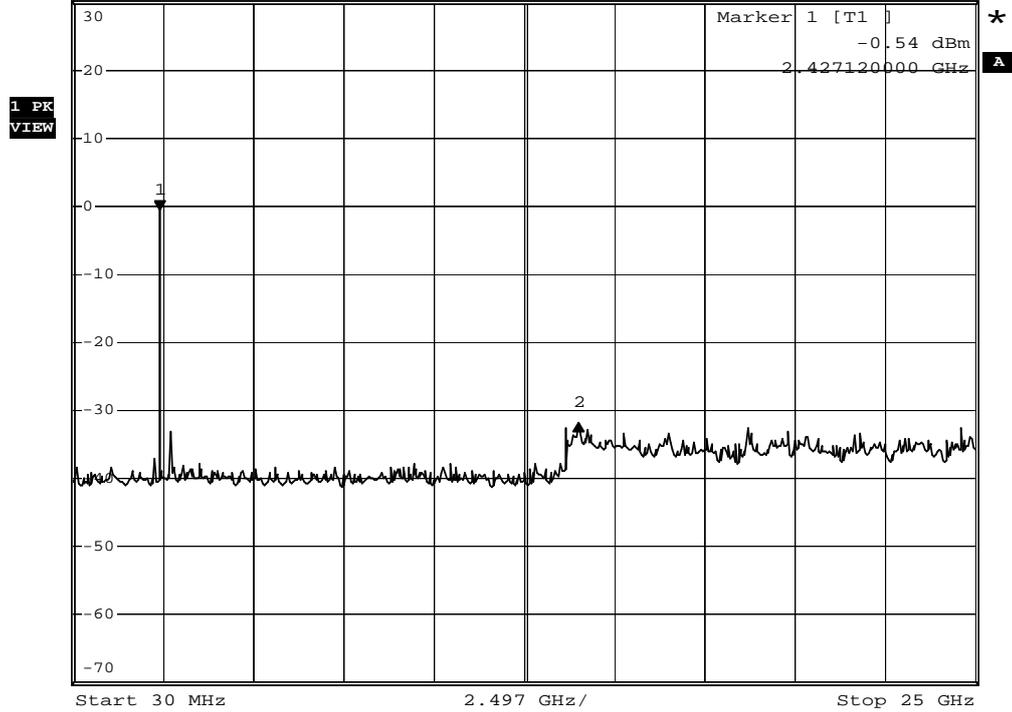
Comment: A:\2
Date: 15.OCT.2012 19:19:27

2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -31.18 dB
SWT 2.5 s 11.586080000 GHz

Ref 30 dBm *Att 40 dB



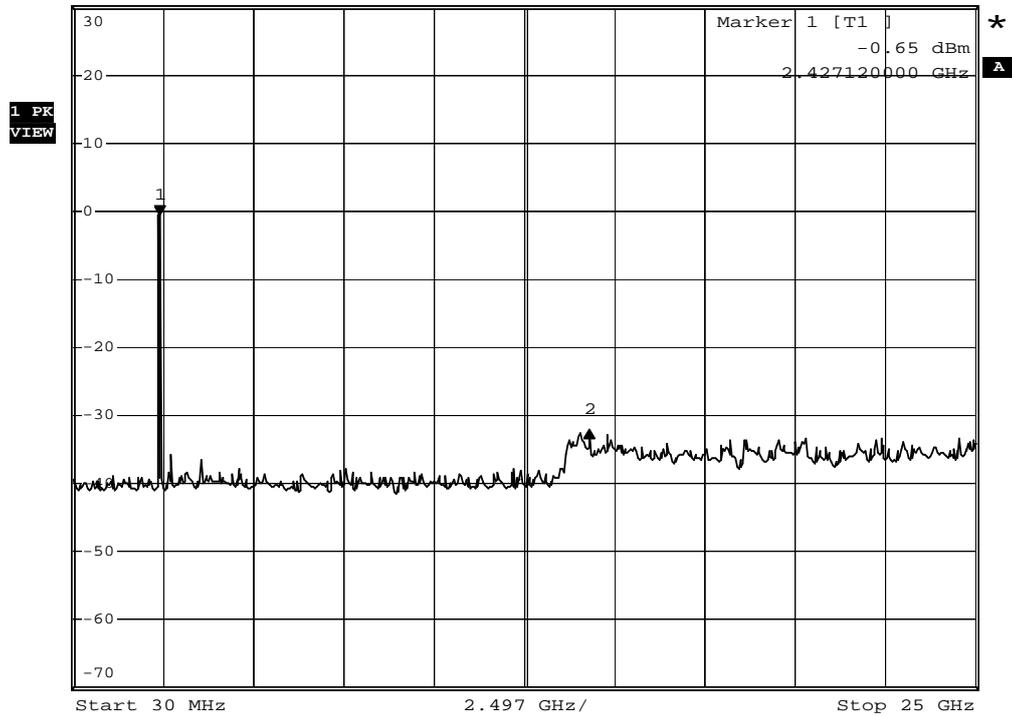
Comment: A:\2
Date: 15.OCT.2012 19:24:00

2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -31.40 dB
SWT 2.5 s 11.885720000 GHz

Ref 30 dBm *Att 40 dB



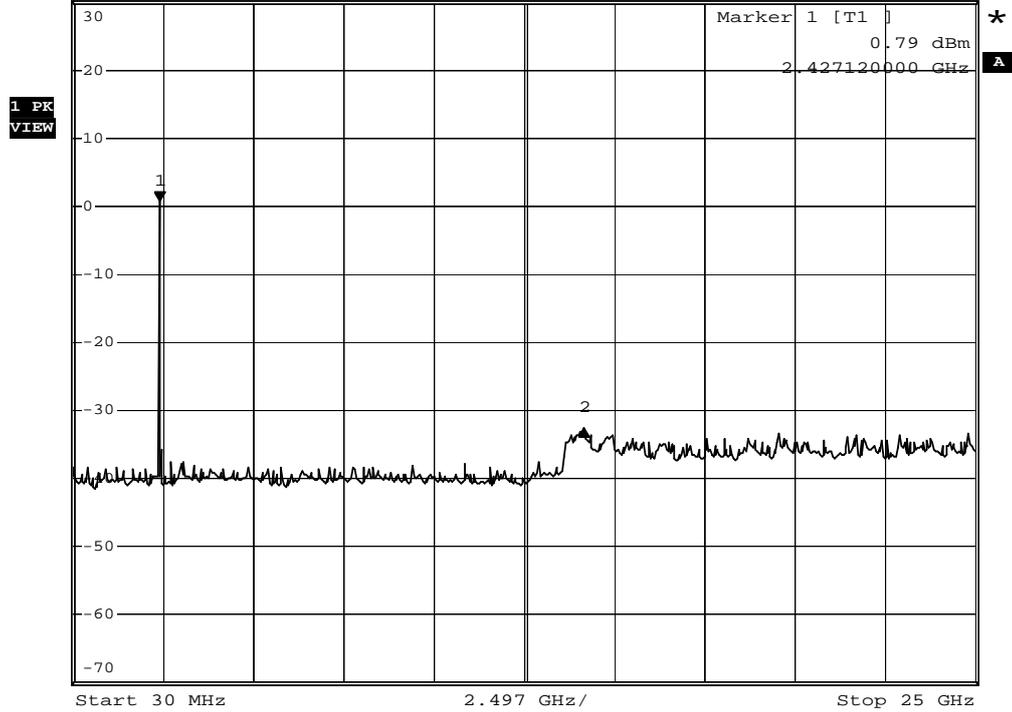
Comment: A:\2
Date: 15.OCT.2012 19:20:18

2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -33.43 dB
 SWT 2.5 s 11.735900000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 15.OCT.2012 19:23:18

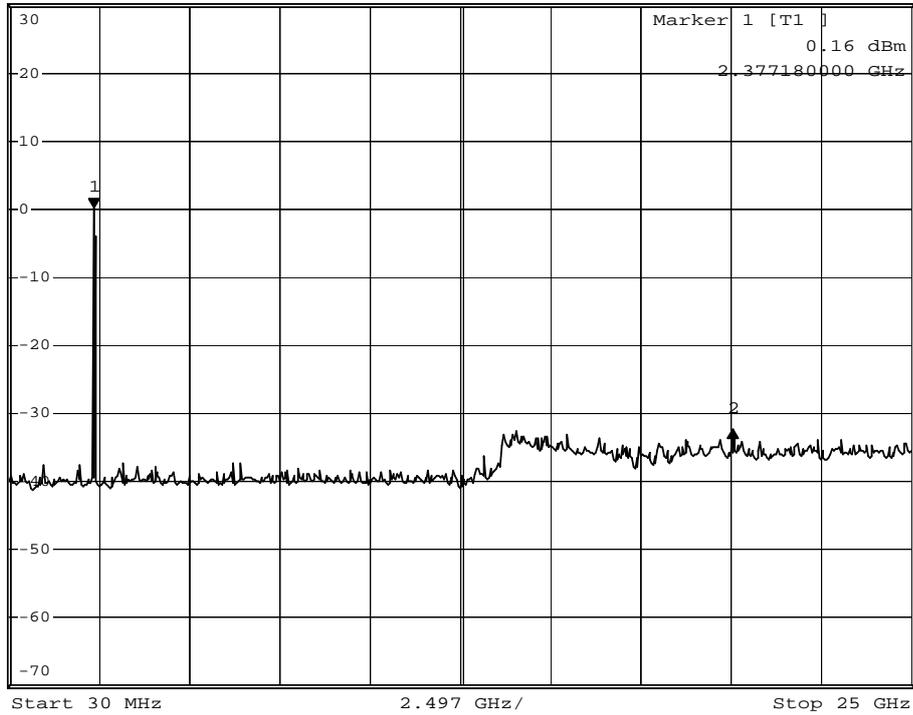
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 2



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -32.46 dB
 SWT 2.5 s 17.678760000 GHz

Ref 30 dBm *Att 40 dB

1 PK VIEW



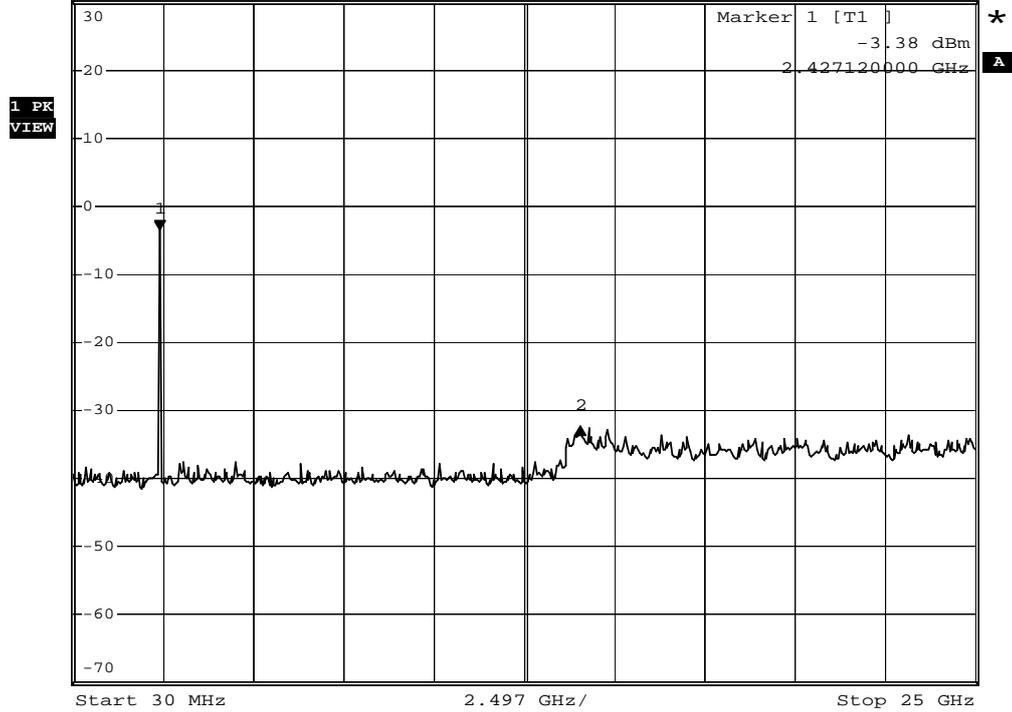
Comment: A:\2
 Date: 15.OCT.2012 19:21:11

2452MHz (30MHz-25GHz) -802.11n(40MHz)-ANT 2



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -28.97 dB
SWT 2.5 s 11.636020000 GHz

Ref 30 dBm *Att 40 dB

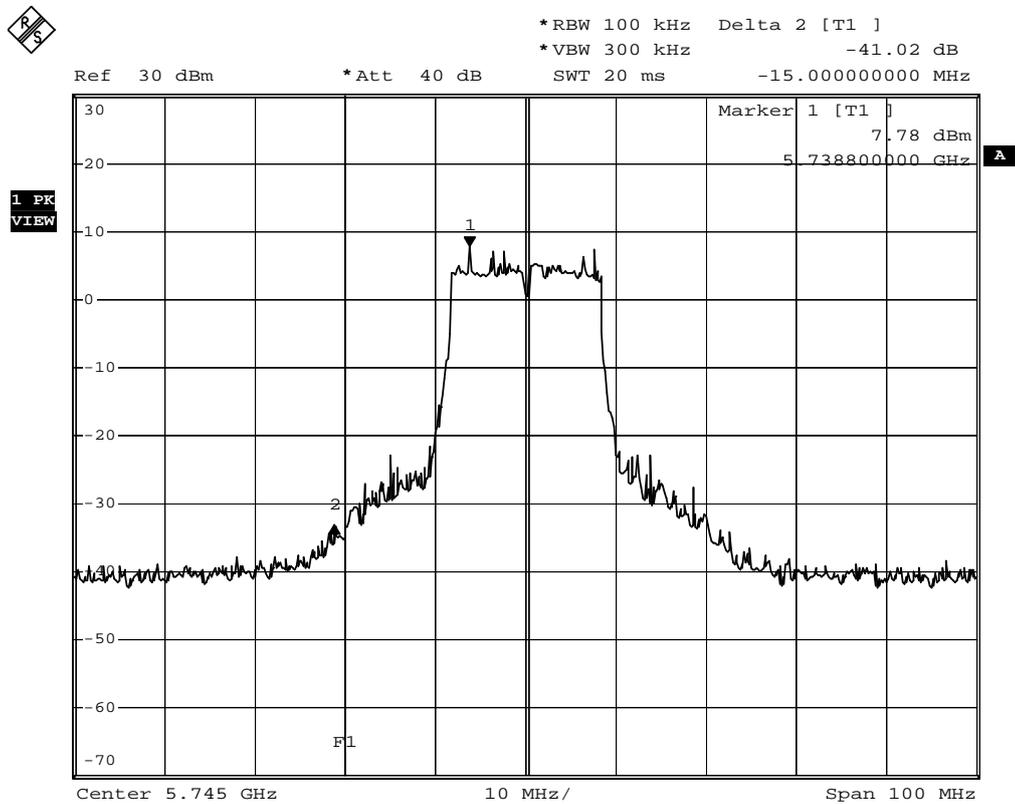


Comment: A:\2
Date: 15.OCT.2012 19:22:31

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11a, Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	41.02	≥20	Pass
165	5825	45.95	≥20	Pass

Channel 149 (5745MHz)



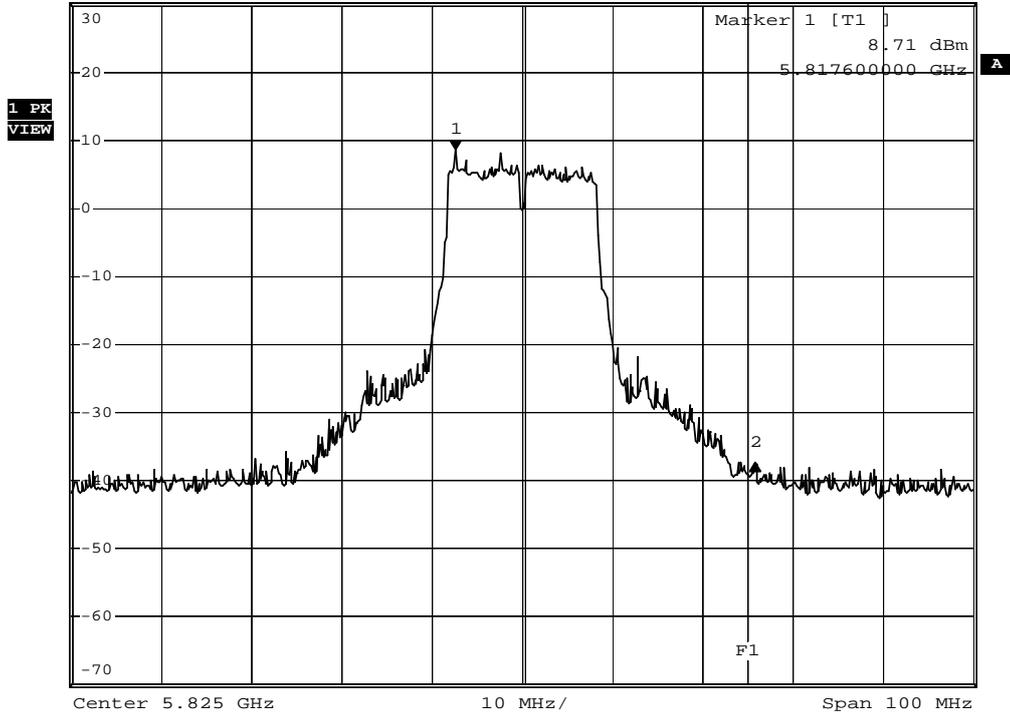
Comment: A:\2
 Date: 16.OCT.2012 15:24:31

Channel 165 (5825MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -45.95 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 33.20000000 MHz

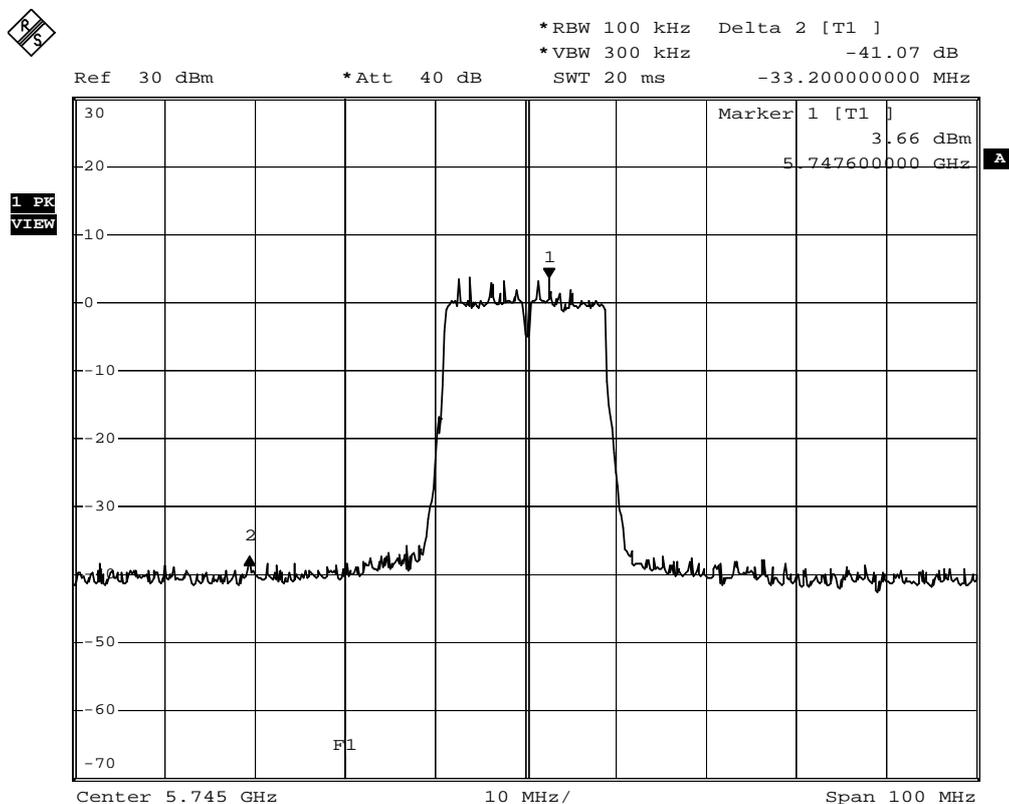


Comment: A:\2
Date: 16.OCT.2012 15:22:33

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

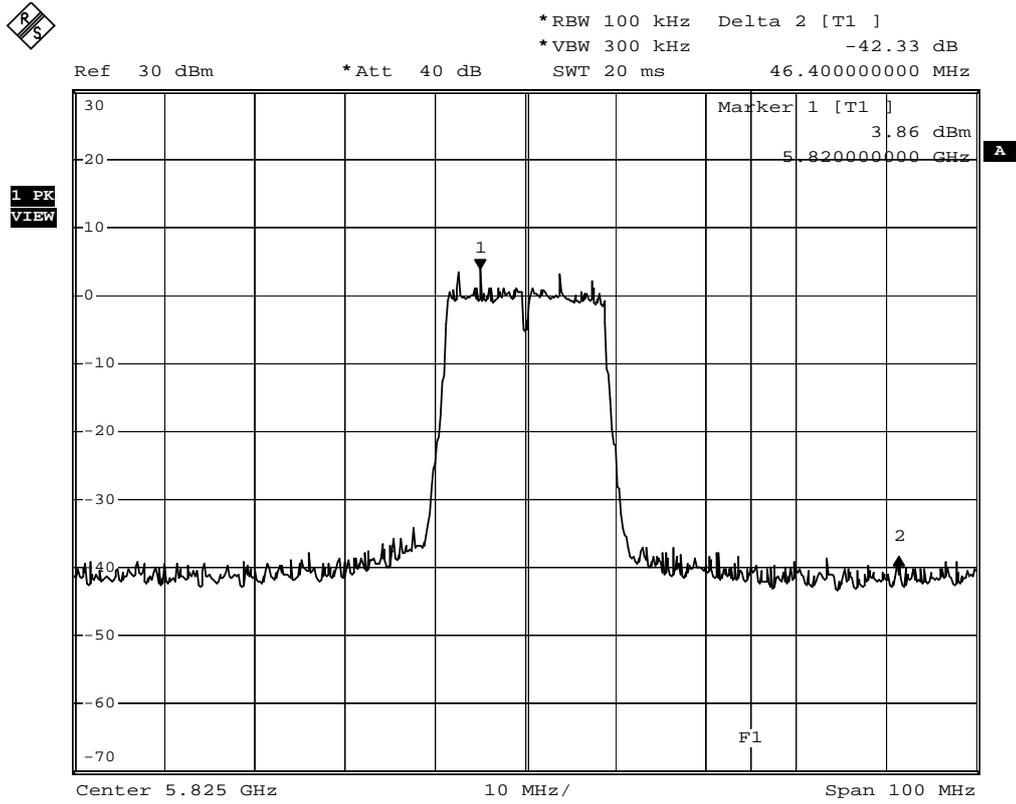
IEEE 802.11n (20MHz), (ANT 0) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	41.07	≥ 20	Pass
165	5825	42.33	≥ 20	Pass

Channel 149 (5745MHz)



Comment: A:\2
 Date: 16.OCT.2012 15:16:36

Channel 165 (5825MHz)

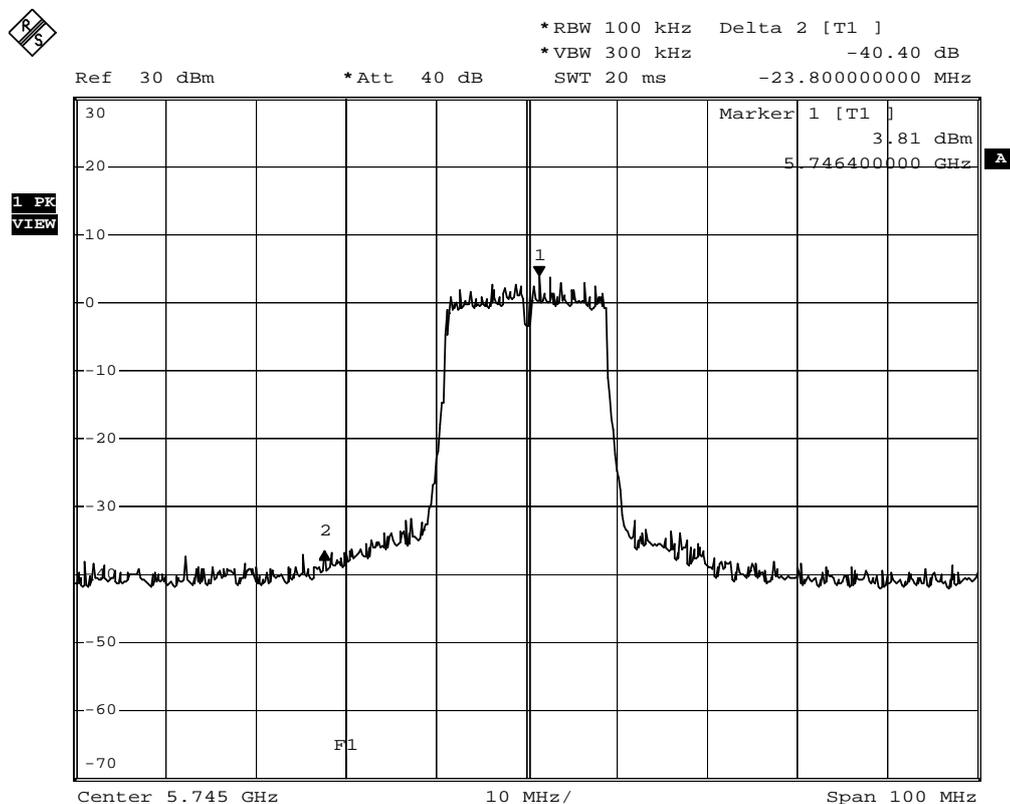


Comment: A:\2
Date: 16.OCT.2012 15:21:53

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

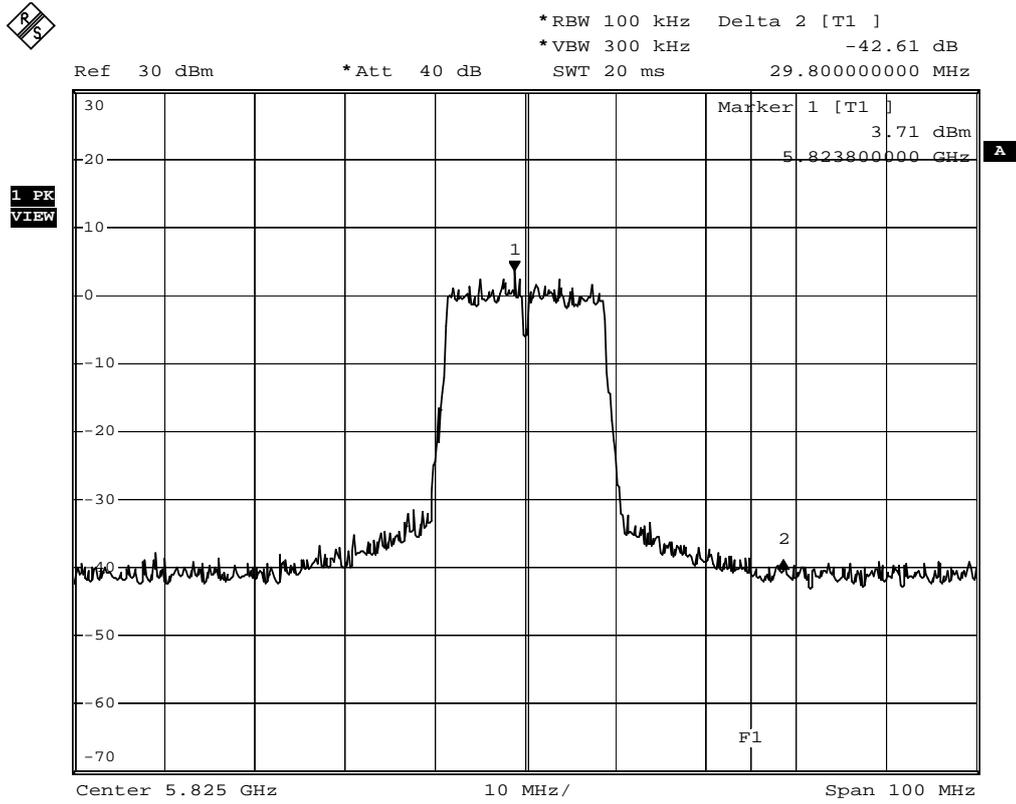
IEEE 802.11n (20MHz), (ANT 1) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	40.40	≥ 20	Pass
165	5825	42.61	≥ 20	Pass

Channel 149 (5745MHz)



Comment: A:\2
 Date: 16.OCT.2012 15:17:25

Channel 165 (5825MHz)

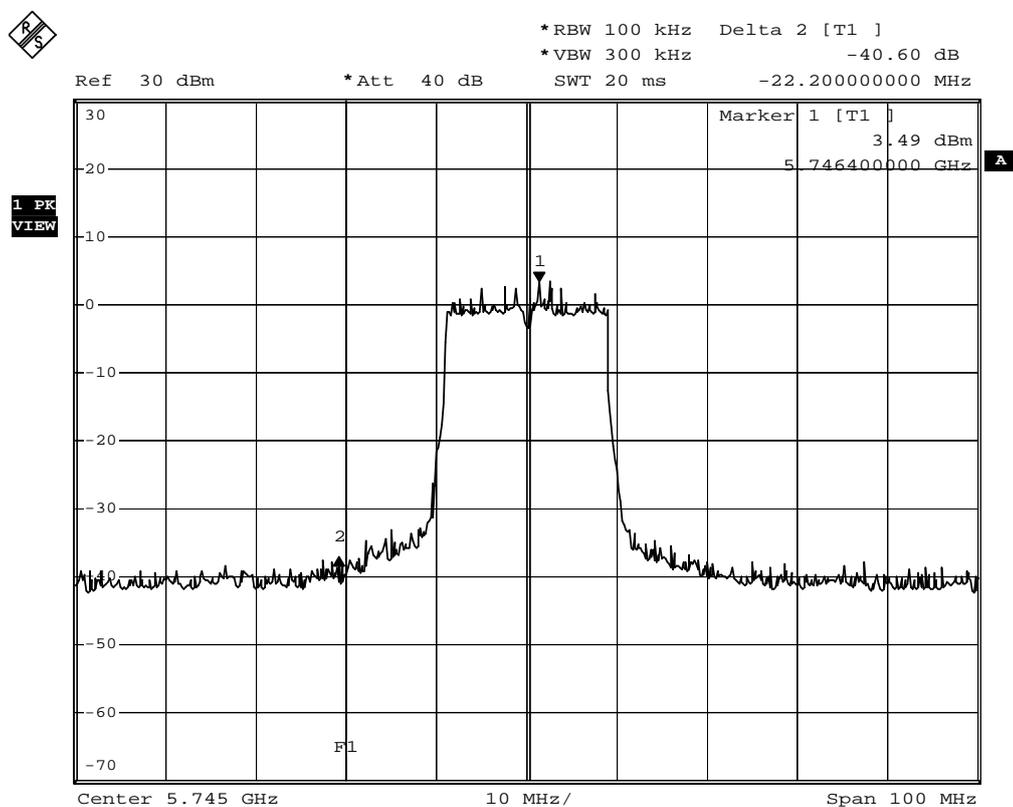


Comment: A:\2
Date: 16.OCT.2012 15:21:12

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 2) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	40.60	≥ 20	Pass
165	5825	40.97	≥ 20	Pass

Channel 149 (5745MHz)



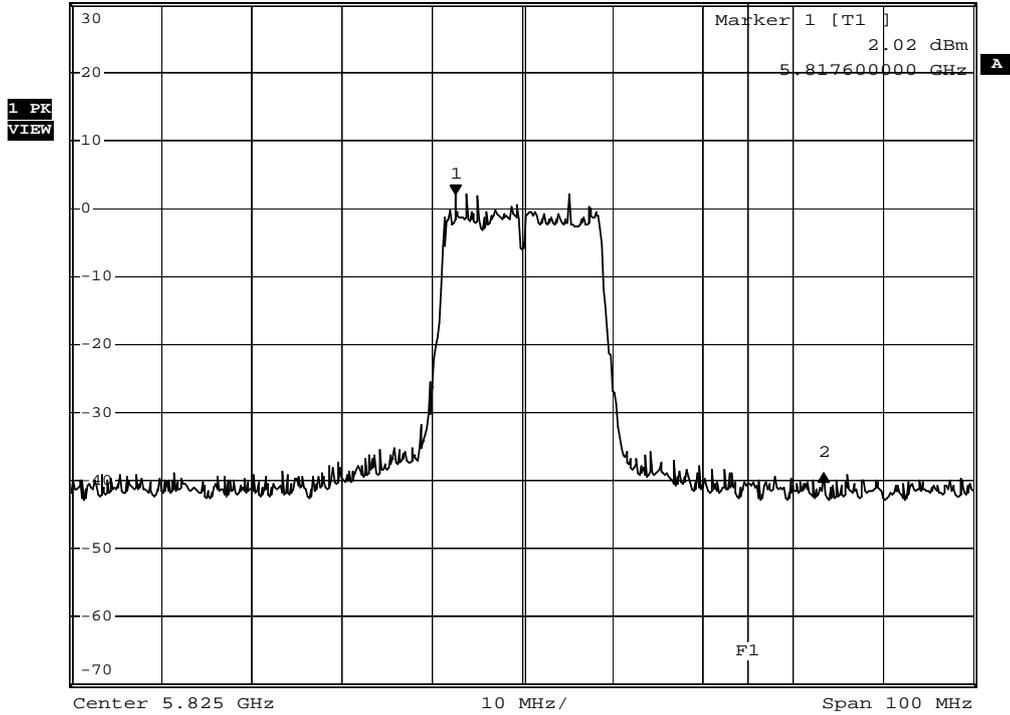
Comment: A:\2
 Date: 16.OCT.2012 15:18:06

Channel 165 (5825MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -40.97 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 40.80000000 MHz

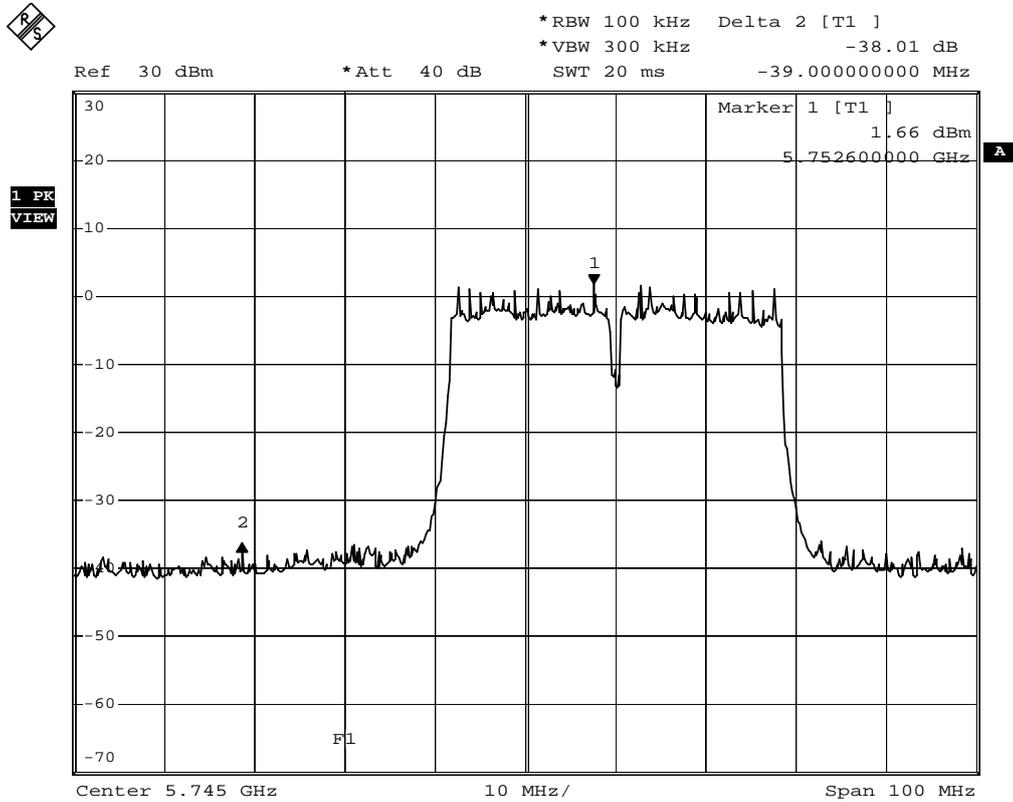


Comment: A:\2
Date: 16.OCT.2012 15:20:19

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	38.01	≥ 20	Pass
159	5795	40.78	≥ 20	Pass

Channel 151 (5755MHz)



Comment: A:\2
 Date: 16.OCT.2012 15:15:03

Channel 159 (5795MHz)



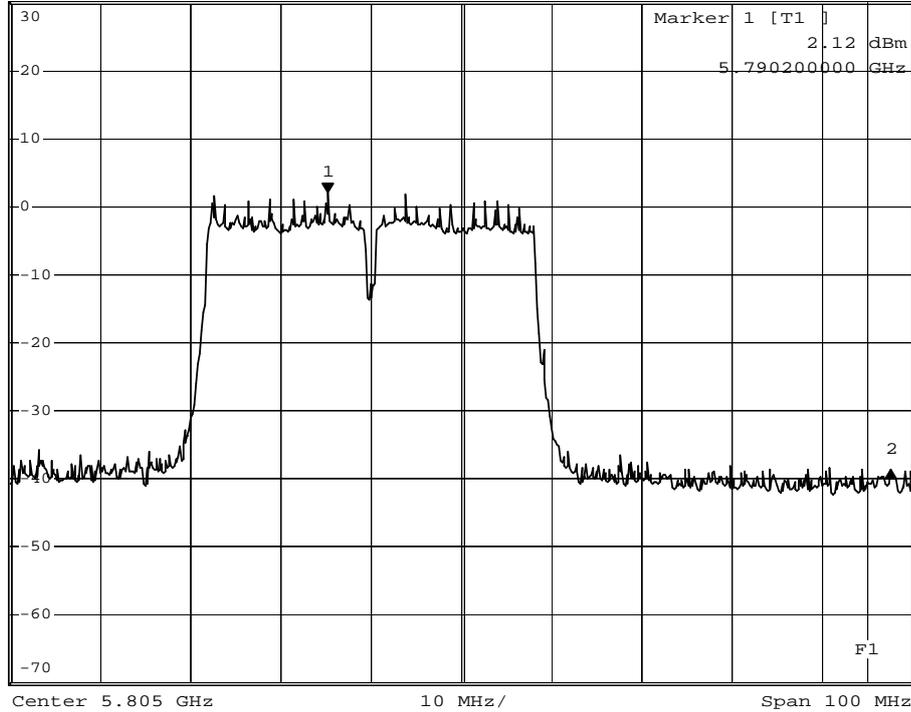
*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -40.78 dB
SWT 20 ms 62.40000000 MHz

Ref 30 dBm

*Att 40 dB

62.40000000 MHz

1 PK
VIEW

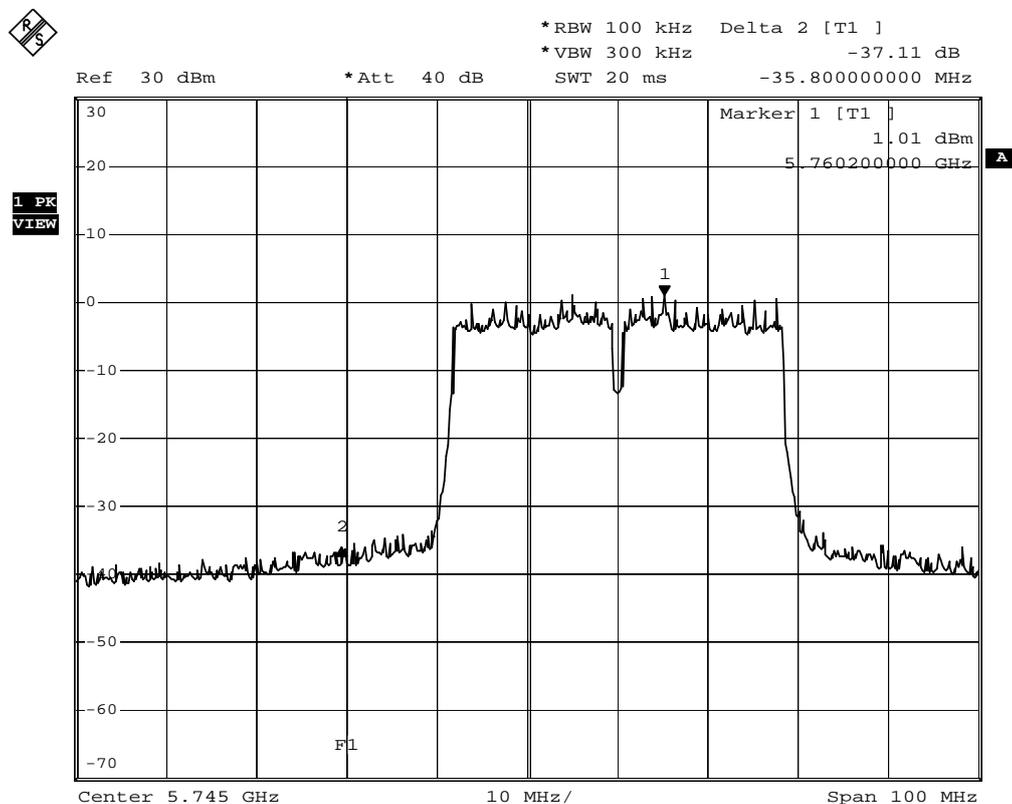


Comment: A:\2
Date: 16.OCT.2012 15:12:20

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	37.11	≥ 20	Pass
159	5795	39.77	≥ 20	Pass

Channel 151 (5755MHz)



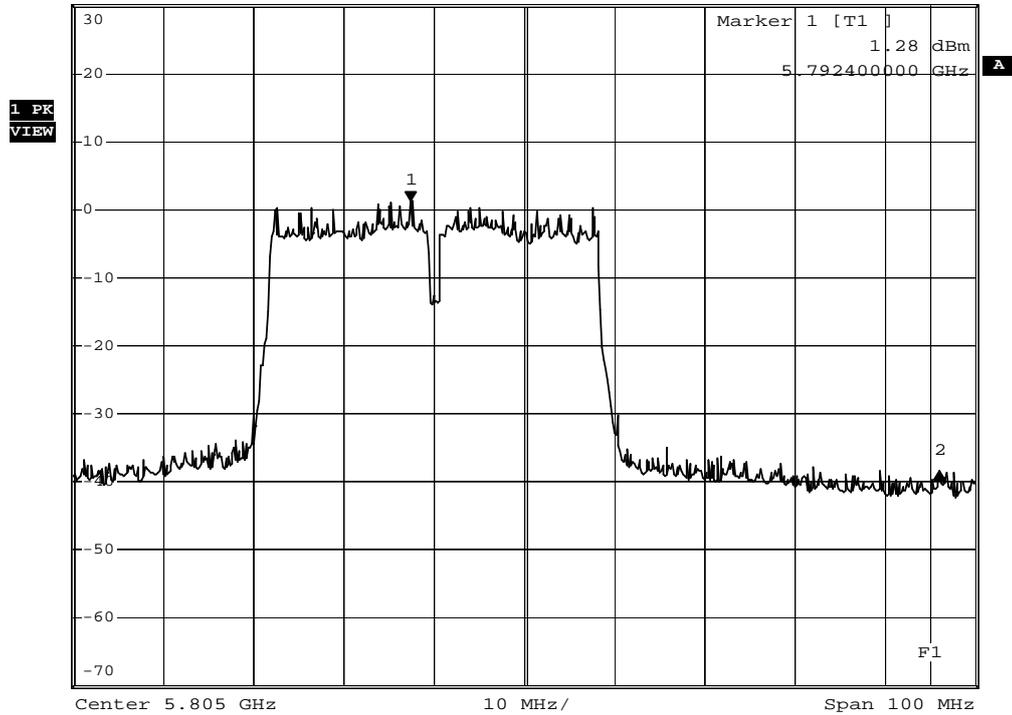
Comment: A:\2
 Date: 16.OCT.2012 15:14:26

Channel 159 (5795MHz)



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -39.77 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 58.60000000 MHz

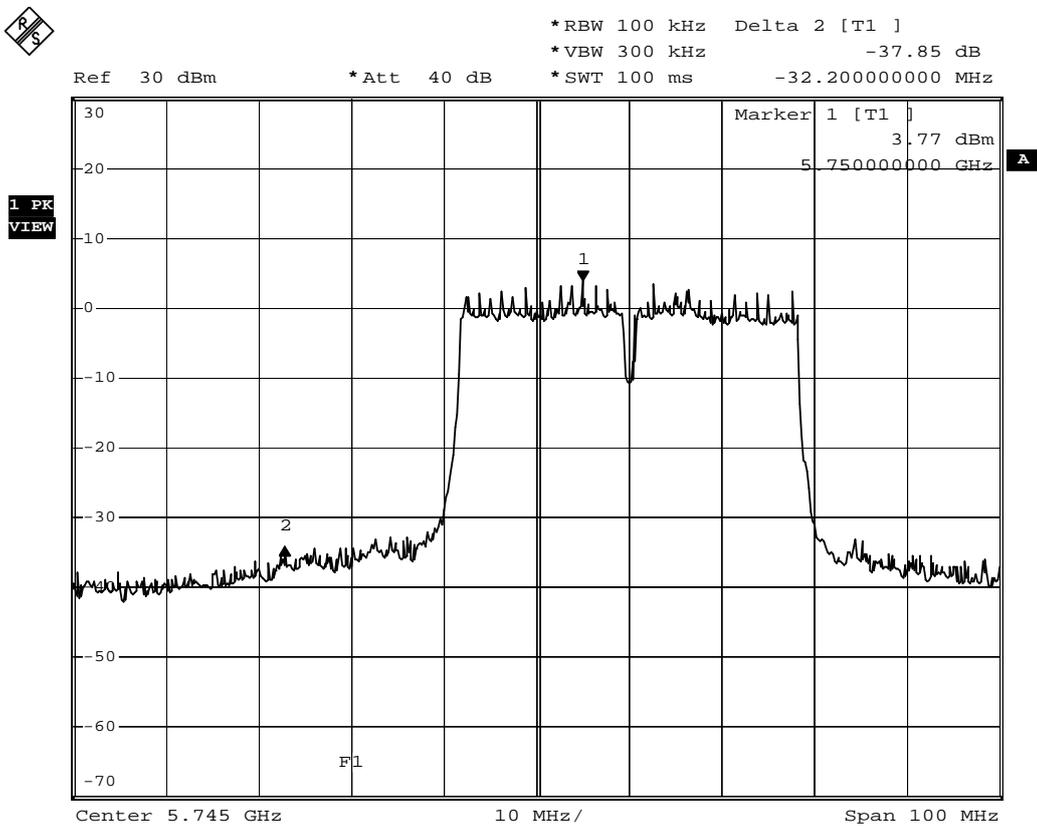


Comment: A:\2
Date: 16.OCT.2012 15:11:34

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 2) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	37.85	≥ 20	Pass
159	5795	38.72	≥ 20	Pass

Channel 151 (5755MHz)



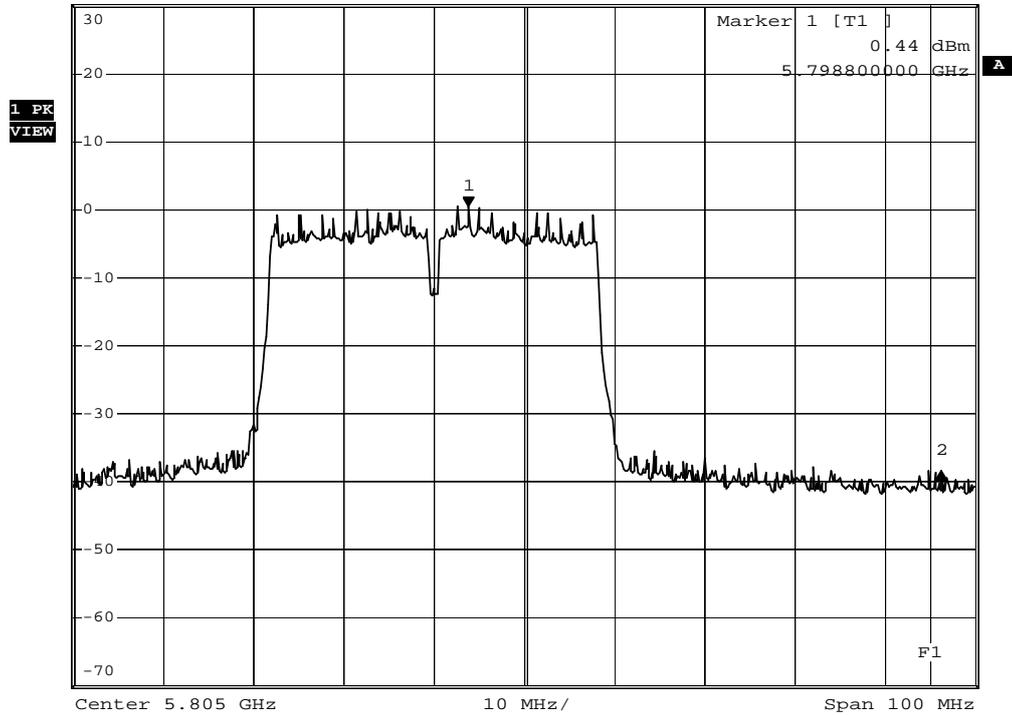
Date: 18.OCT.2012 12:31:06

Channel 159 (5795MHz)



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -38.72 dB
 SWT 20 ms

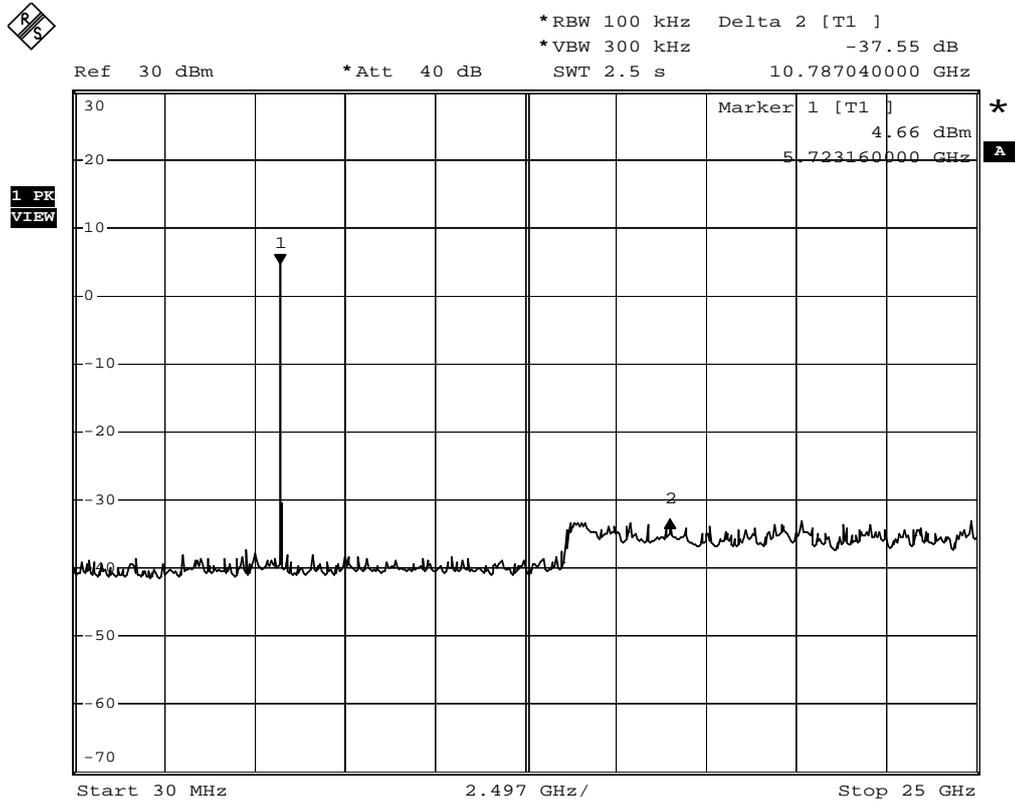
Ref 30 dBm *Att 40 dB 52.40000000 MHz



Comment: A:\2
 Date: 16.OCT.2012 15:10:38

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

5745MHz (30MHz~25GHz)-802.11a



Comment: A:\2
 Date: 16.OCT.2012 15:23:52

5825MHz (30MHz~25GHz)-802.11a

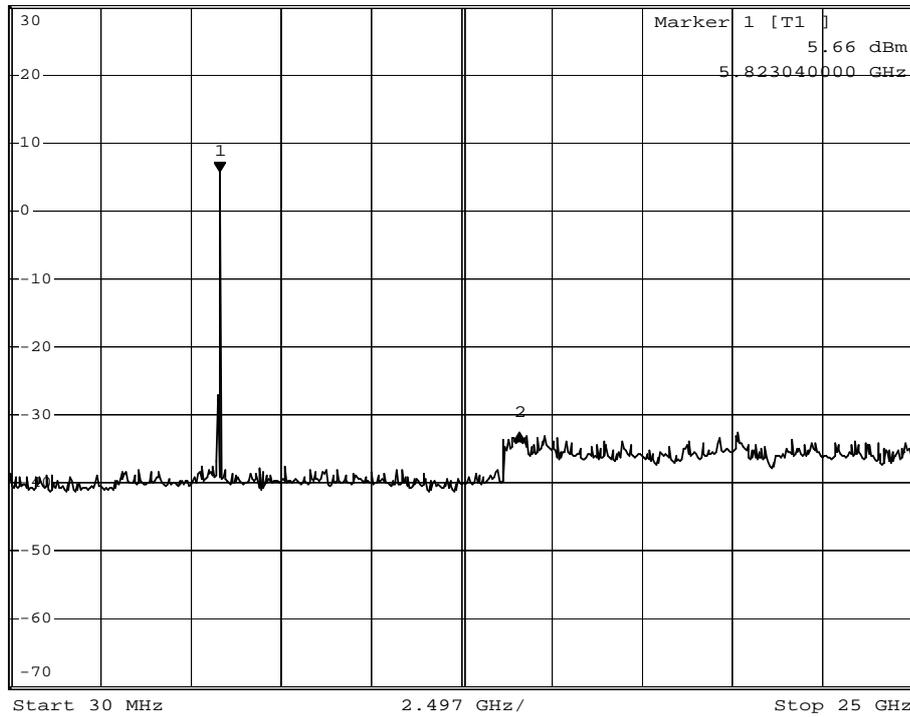


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -38.22 dB
SWT 2.5 s 8.290040000 GHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Comment: A:\2
Date: 16.OCT.2012 15:23:10

5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]

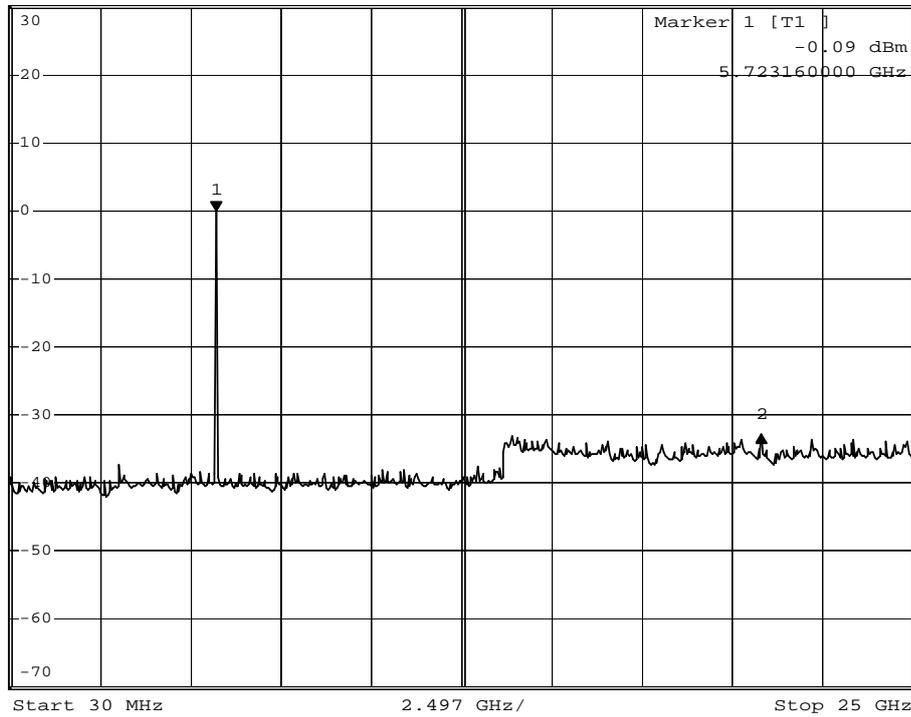
*VBW 300 kHz -32.86 dB

SWT 2.5 s 15.08188000 GHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



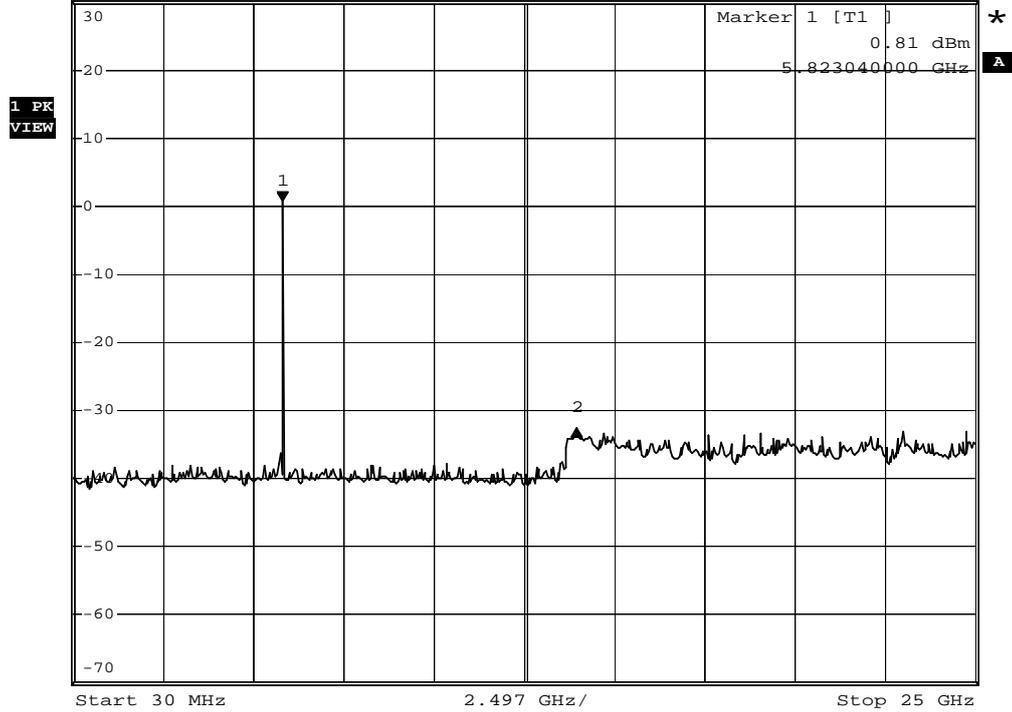
Comment: A:\2
Date: 16.OCT.2012 15:28:44

5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -33.45 dB
 SWT 2.5 s 8.140220000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 16.OCT.2012 15:32:22

5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 1



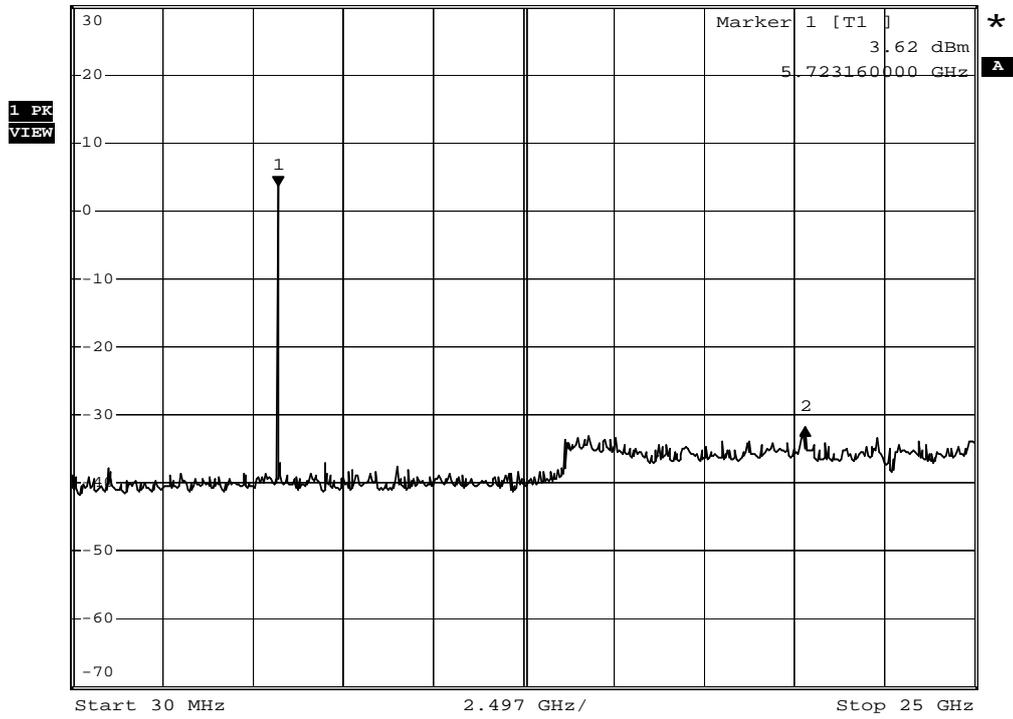
*RBW 100 kHz Delta 2 [T1]

*VBW 300 kHz -35.49 dB

SWT 2.5 s 14.58248000 GHz

Ref 30 dBm

*Att 40 dB



Comment: A:\2

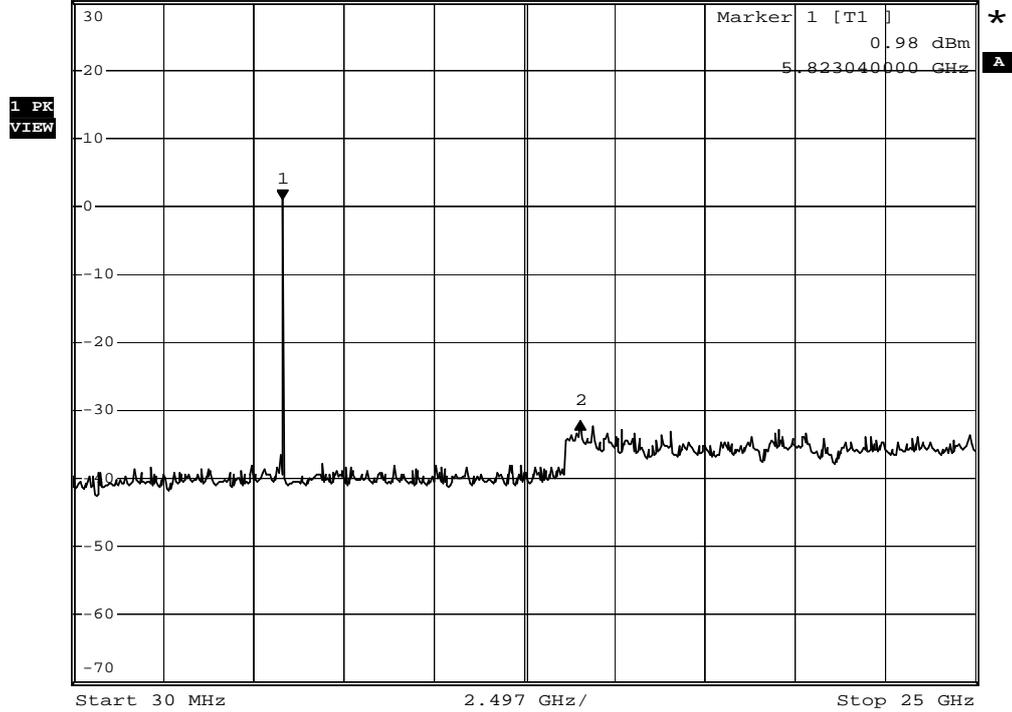
Date: 16.OCT.2012 15:29:34

5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -32.56 dB
 SWT 2.5 s 8.240100000 GHz

Ref 30 dBm *Att 40 dB

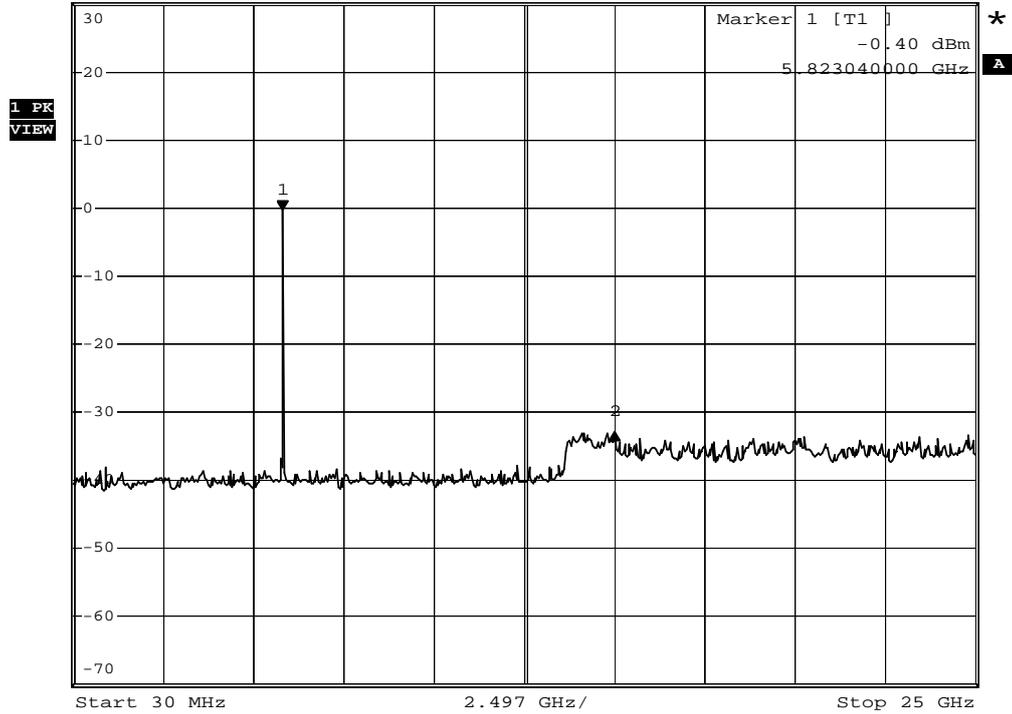


Comment: A:\2
 Date: 16.OCT.2012 15:31:41

5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 2



*RBW 100 kHz Delta 2 [T1]
 *VBW 300 kHz -32.52 dB
 Ref 30 dBm *Att 40 dB SWT 2.5 s 9.188960000 GHz



Comment: A:\2
 Date: 16.OCT.2012 15:30:53

5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



*RBW 100 kHz Delta 2 [T1]

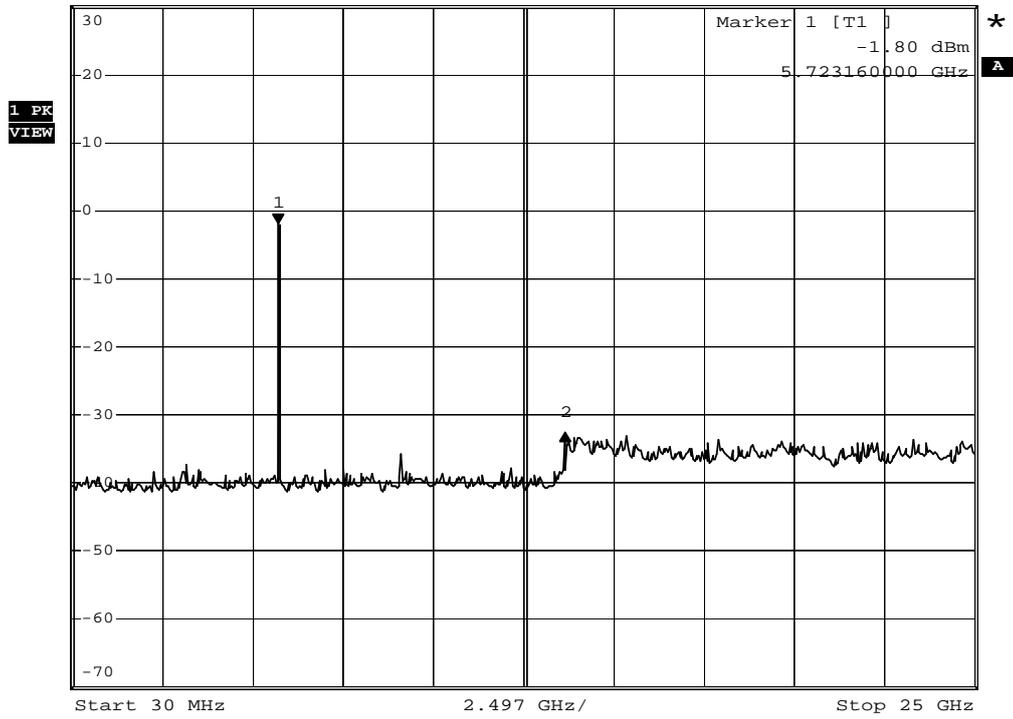
*VBW 300 kHz -30.91 dB

Ref 30 dBm

*Att 40 dB

SWT 2.5 s

7.940460000 GHz



Comment: A:\2

Date: 16.OCT.2012 15:36:39

5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 1



*RBW 100 kHz Delta 2 [T1]

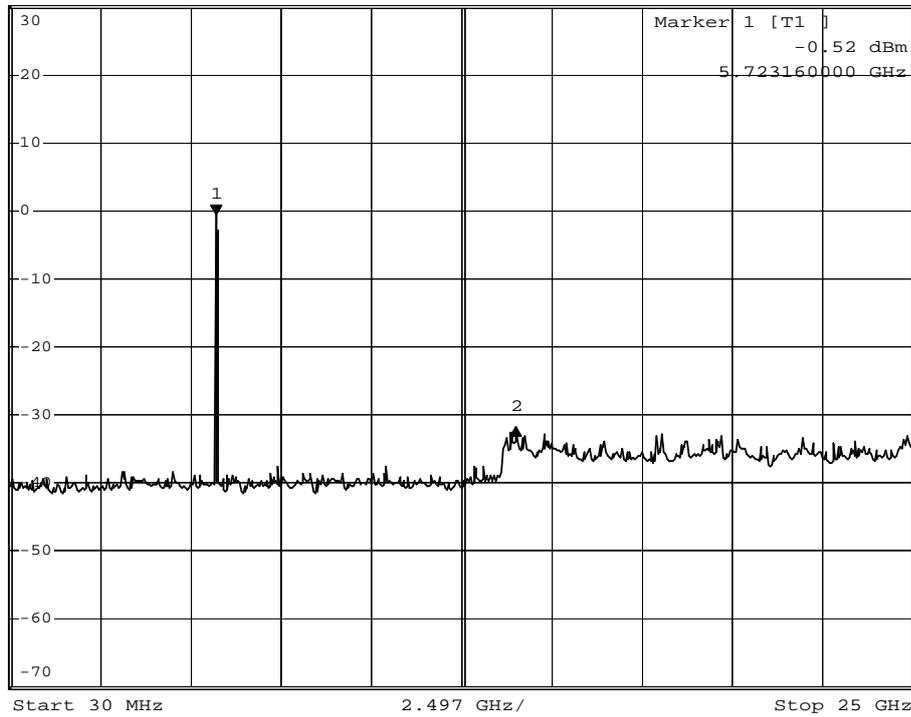
*VBW 300 kHz -31.17 dB

SWT 2.5 s 8.290040000 GHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Comment: A:\2

Date: 16.OCT.2012 15:35:57

5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 1



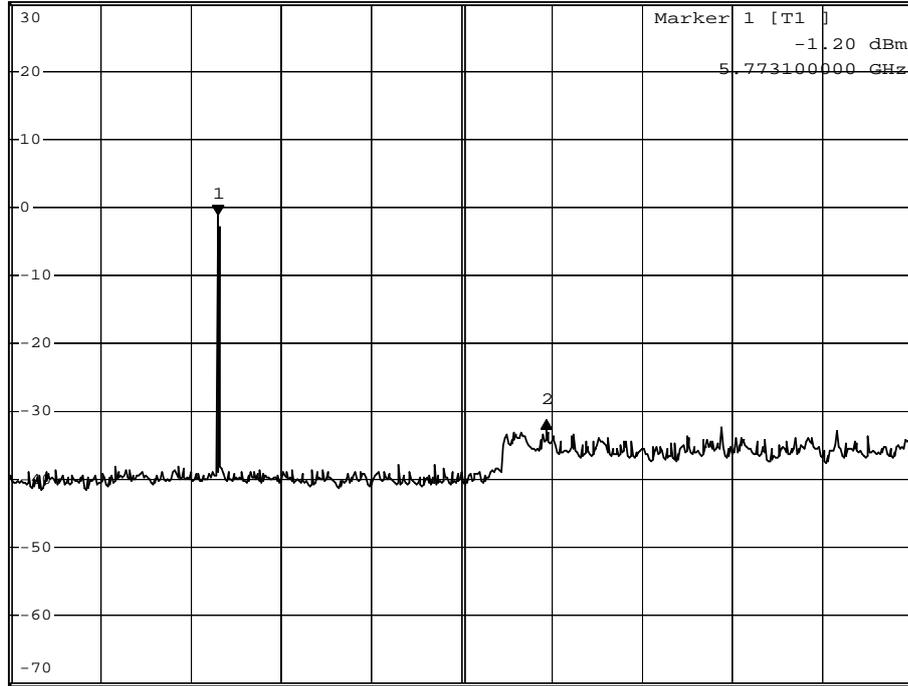
*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -29.96 dB
SWT 2.5 s 9.089080000 GHz

Ref 30 dBm

*Att 40 dB

Marker 1 [T1] *
-1.20 dBm
5.773100000 GHz A

1 PK
VIEW



Start 30 MHz 2.497 GHz/ Stop 25 GHz

Comment: A:\2

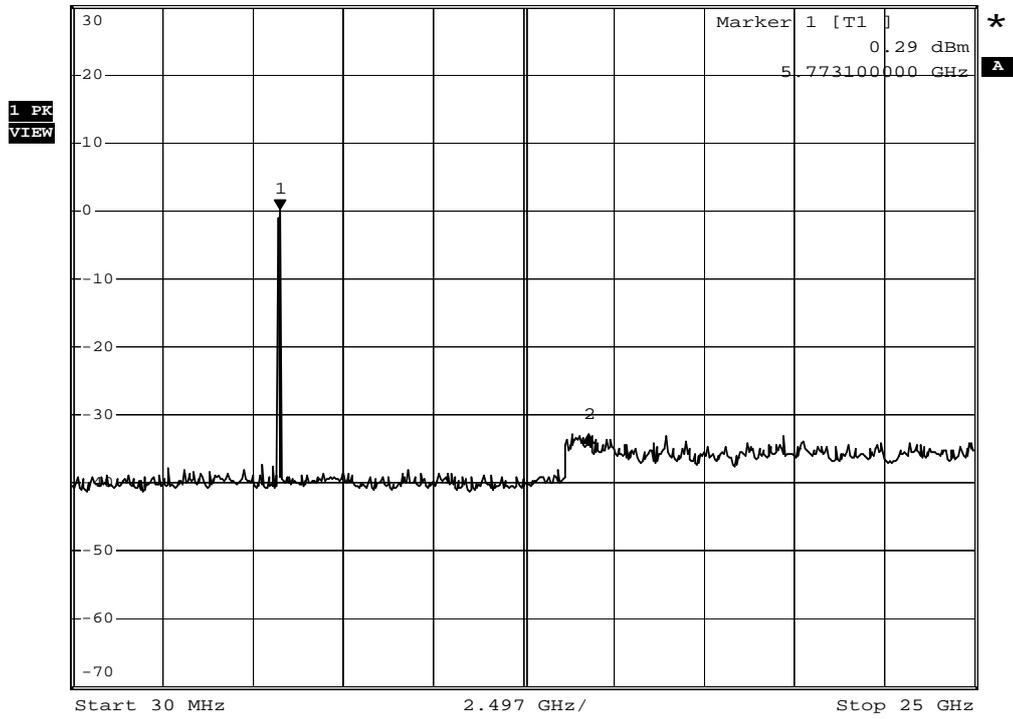
Date: 16.OCT.2012 15:33:53

5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 2



*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -33.12 dB
SWT 2.5 s 8.539740000 GHz

Ref 30 dBm *Att 40 dB

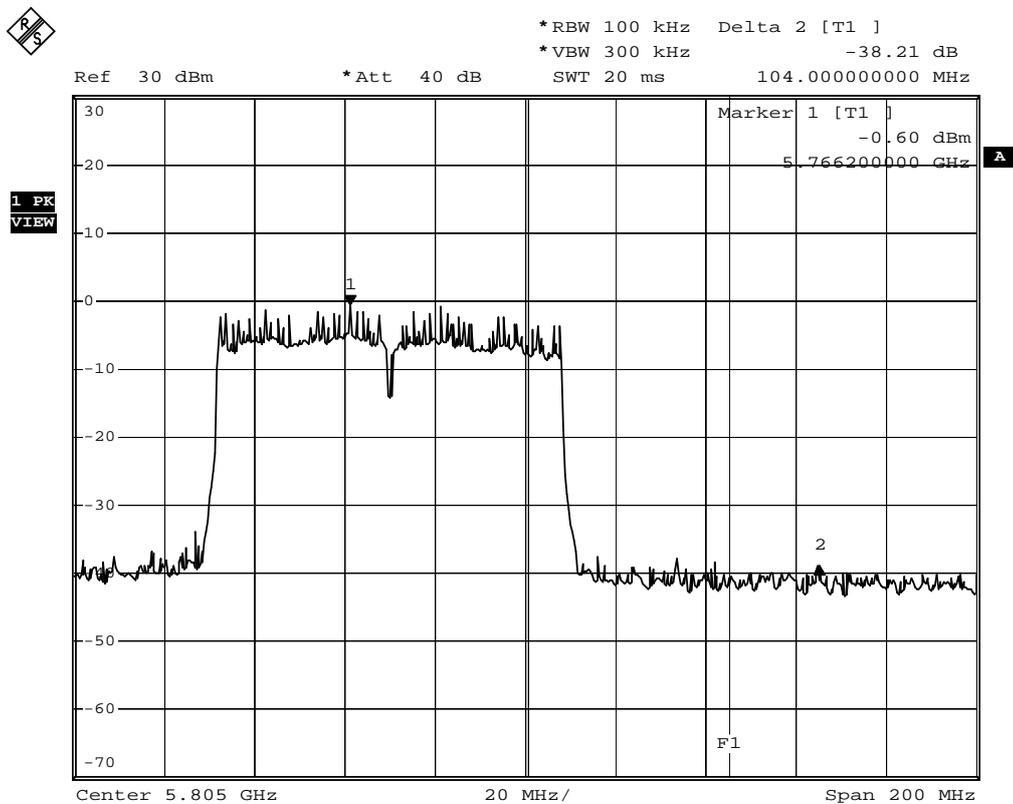


Comment: A:\2
Date: 16.OCT.2012 15:35:18

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 0) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	38.21	≥ 20	Pass

Channel 155 (5775MHz)

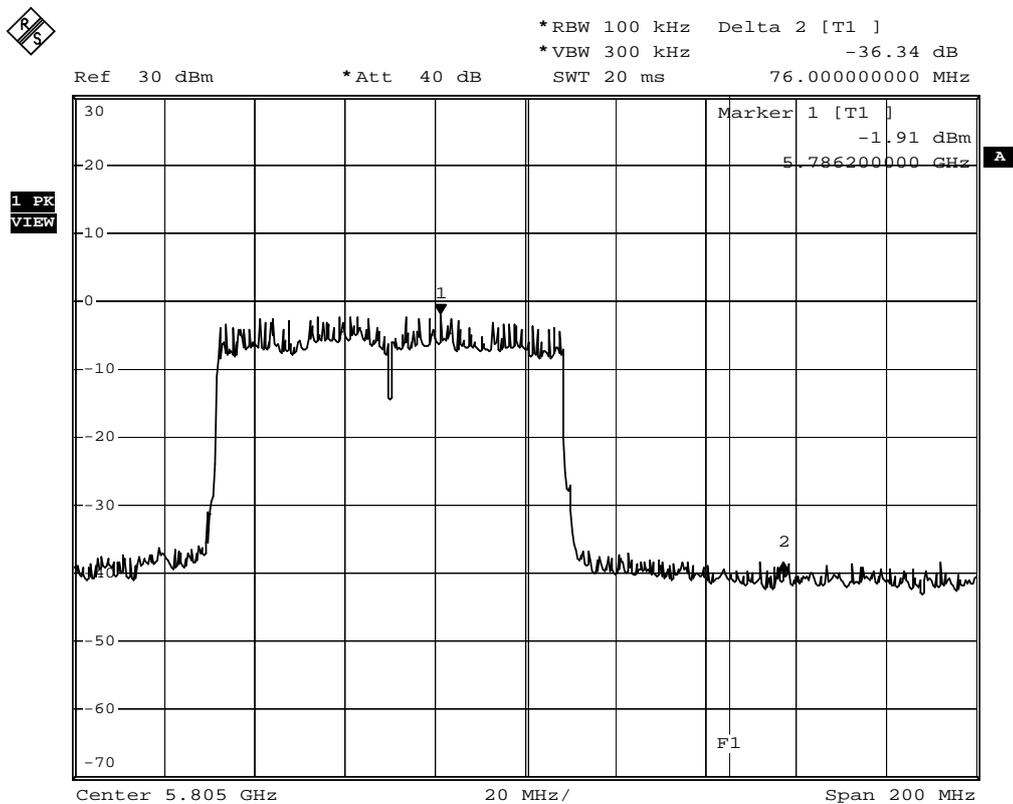


Comment: A:\2
 Date: 16.OCT.2012 15:05:45

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 1) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	36.34	≥ 20	Pass

Channel 155 (5775MHz)

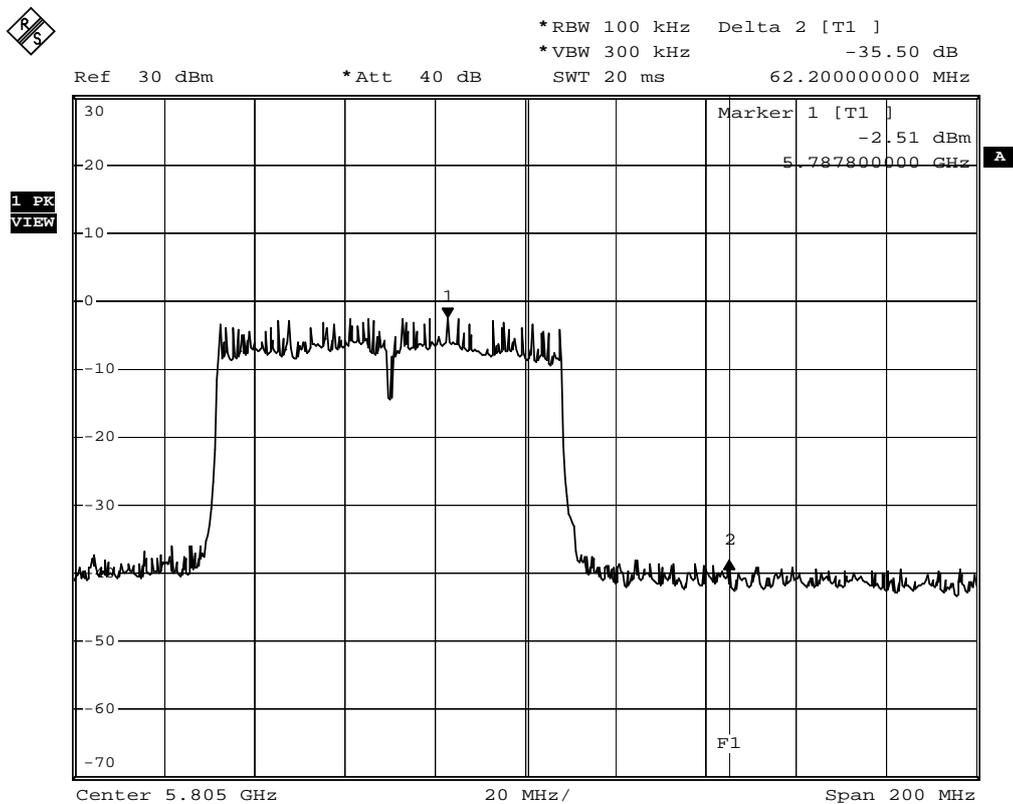


Comment: A:\2
 Date: 16.OCT.2012 15:06:45

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 2) Antenna Gain: 2dBi Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	35.50	≥ 20	Pass

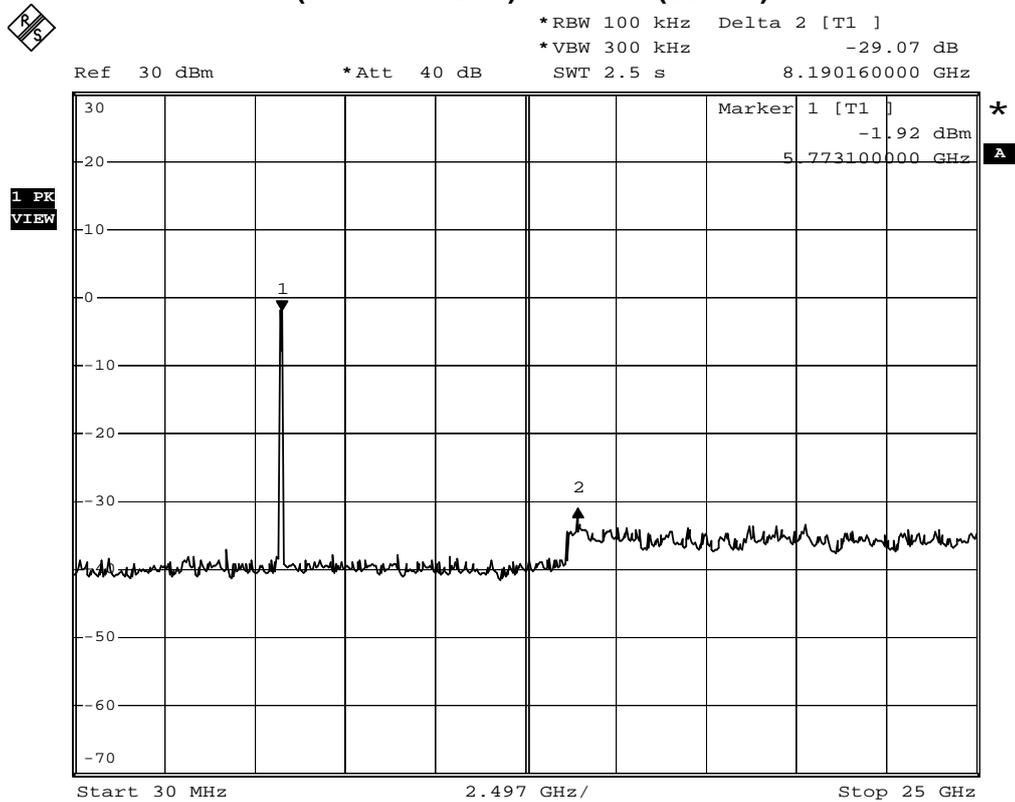
Channel 155 (5775MHz)



Comment: A:\2
 Date: 16.OCT.2012 15:08:04

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 0



Comment: A:\2
 Date: 16.OCT.2012 15:38:03

5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 2

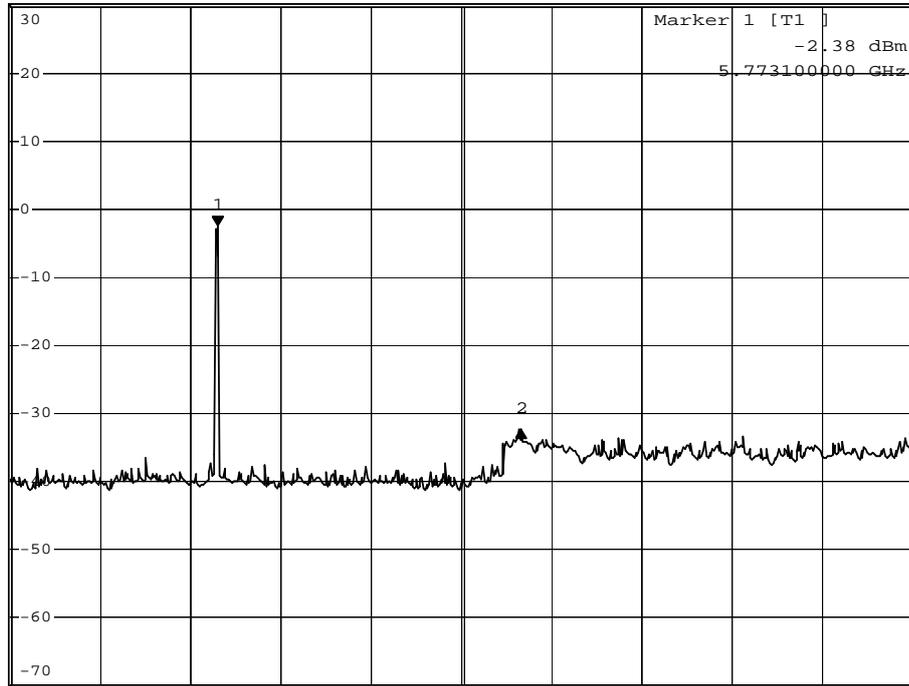


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -29.84 dB
SWT 2.5 s 8.389920000 GHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Comment: A:\2

Date: 16.OCT.2012 15:39:34

6. Radiated Emission Band Edge

6.1. Test Equipment

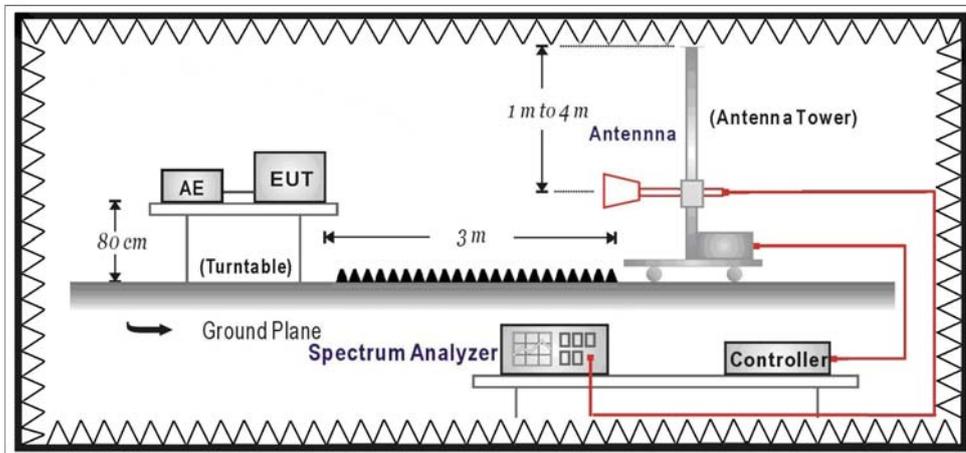
The following test equipments are used during the test:

Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

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 Jan. 2012 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 15.247: 2011

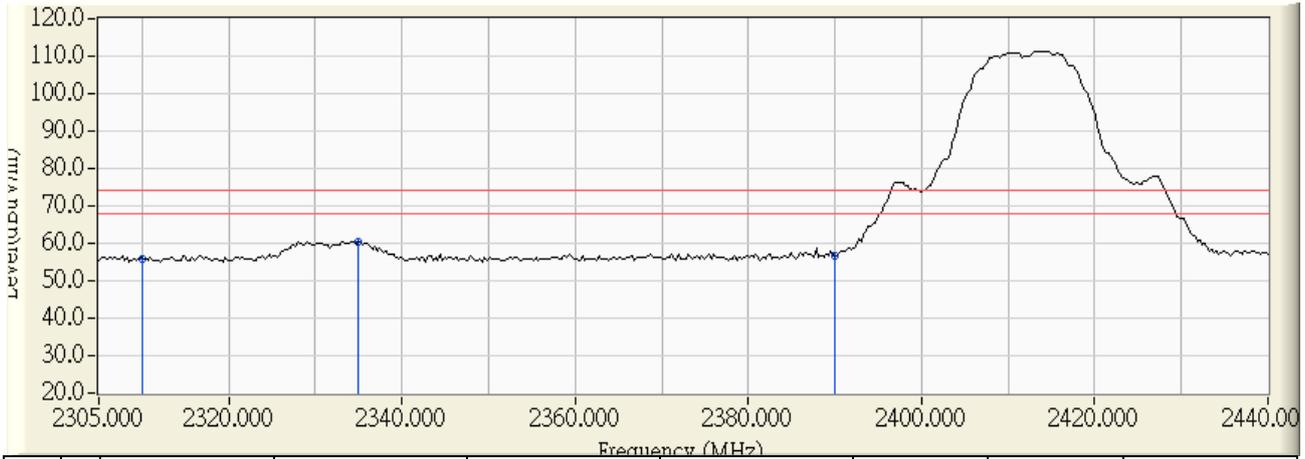
6.6. Uncertainty

The measurement uncertainty
 ± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2012/10/13 - 16:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	26.211	55.990	-18.010	74.000	PEAK
2	* 2334.970	30.029	30.526	60.554	-13.446	74.000	PEAK
3	2390.000	30.578	25.886	56.464	-17.536	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 : 2012/10/13 - 16:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b

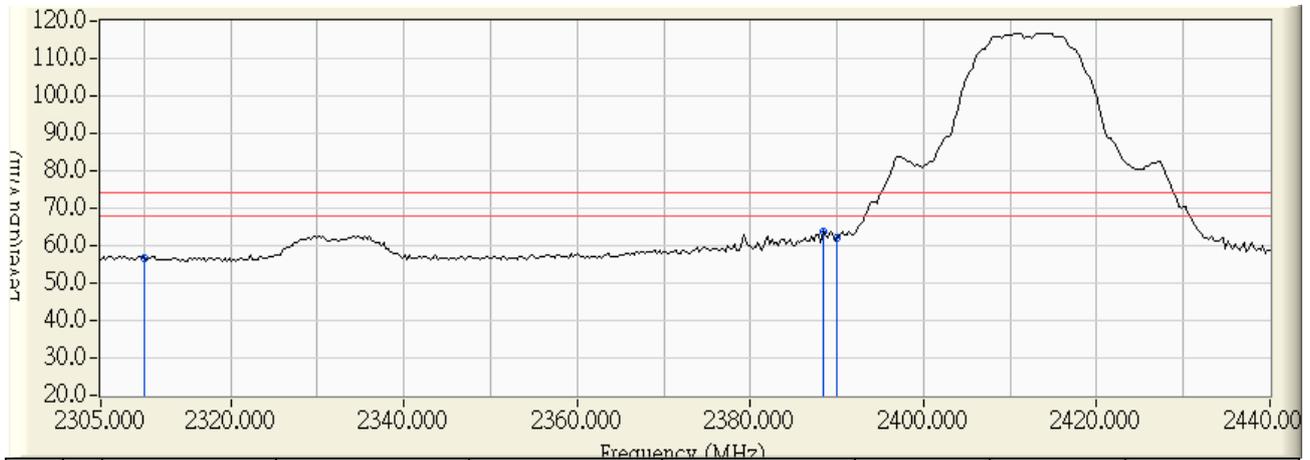


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.505	44.284	-9.716	54.000	AVERAGE
2	* 2329.840	29.978	19.402	49.379	-4.621	54.000	AVERAGE
3	2390.000	30.578	14.422	45.000	-9.000	54.000	AVERAGE

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.

Site : CB1	Time : 2012/10/13 - 16:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	26.850	56.629	-17.371	74.000	PEAK
2	* 2388.430	30.563	33.160	63.722	-10.278	74.000	PEAK
3	2390.000	30.578	31.315	61.893	-12.107	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 : 2012/10/13 - 16:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11b

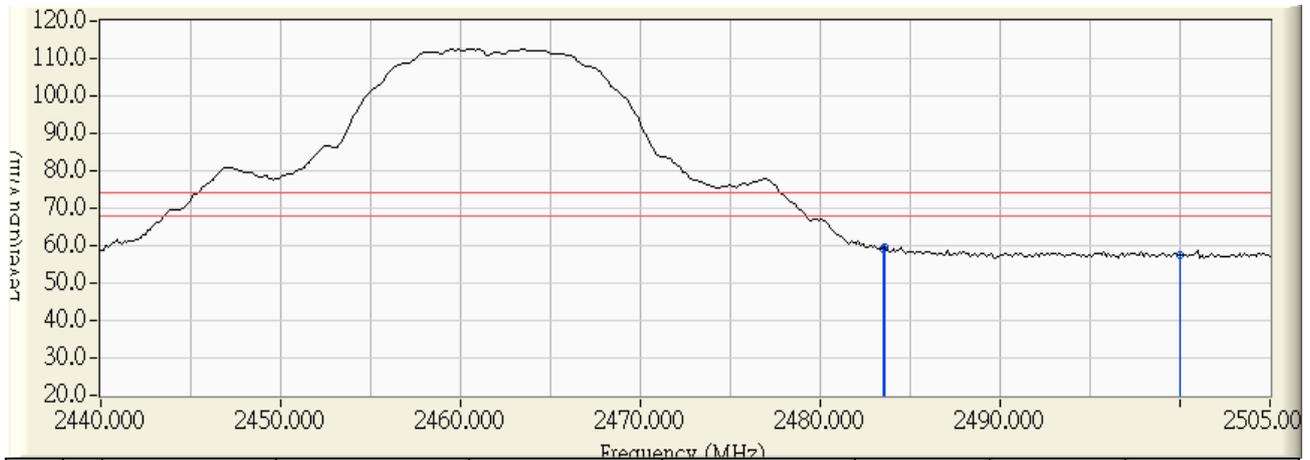


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	15.005	44.784	-9.216	54.000	AVERAGE
2	* 2329.840	29.978	21.912	51.889	-2.111	54.000	AVERAGE
3	2390.000	30.578	16.805	47.383	-6.617	54.000	AVERAGE

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 : 2012/10/13 - 17:06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	27.753	59.265	-14.735	74.000	PEAK
2	* 2483.550	31.513	27.876	59.388	-14.612	74.000	PEAK
3	2500.000	31.638	25.789	57.428	-16.572	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 : 2012/10/13 - 17:07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b

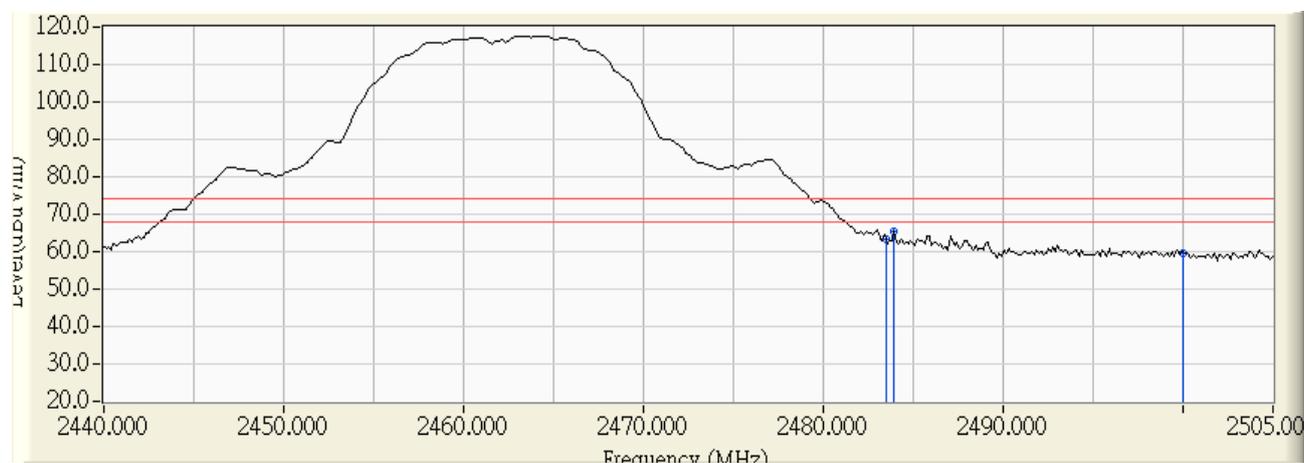


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	16.762	48.274	-5.726	54.000	AVERAGE
2		2483.550	31.513	16.643	48.155	-5.845	54.000	AVERAGE
3		2500.000	31.638	14.236	45.875	-8.125	54.000	AVERAGE

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 : 2012/10/13 - 17:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	31.675	63.187	-10.813	74.000	PEAK
2	* 2483.940	31.516	33.783	65.299	-8.701	74.000	PEAK
3	2500.000	31.638	27.971	59.610	-14.390	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 : 2012/10/13 - 17:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11b

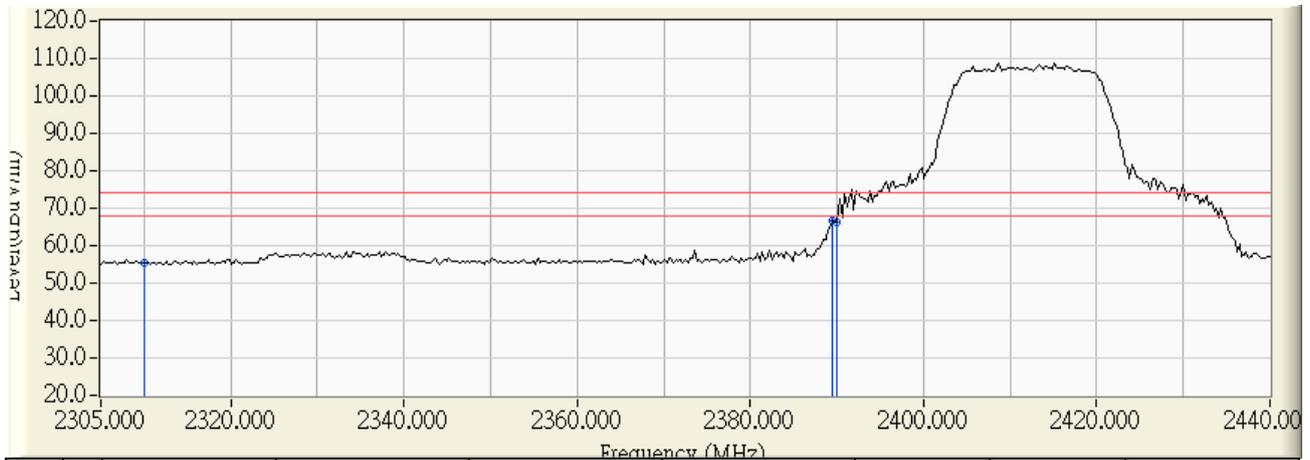


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	21.987	53.499	-0.501	54.000	AVERAGE
2		2483.550	31.513	21.858	53.370	-0.630	54.000	AVERAGE
3		2500.000	31.638	16.107	47.746	-6.254	54.000	AVERAGE

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 : 2012/10/13 - 16:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.647	55.426	-18.574	74.000	PEAK
2	* 2389.510	30.573	35.970	66.543	-7.457	74.000	PEAK
3	2390.000	30.578	35.529	66.107	-7.893	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 : 2012/10/13 - 16:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g

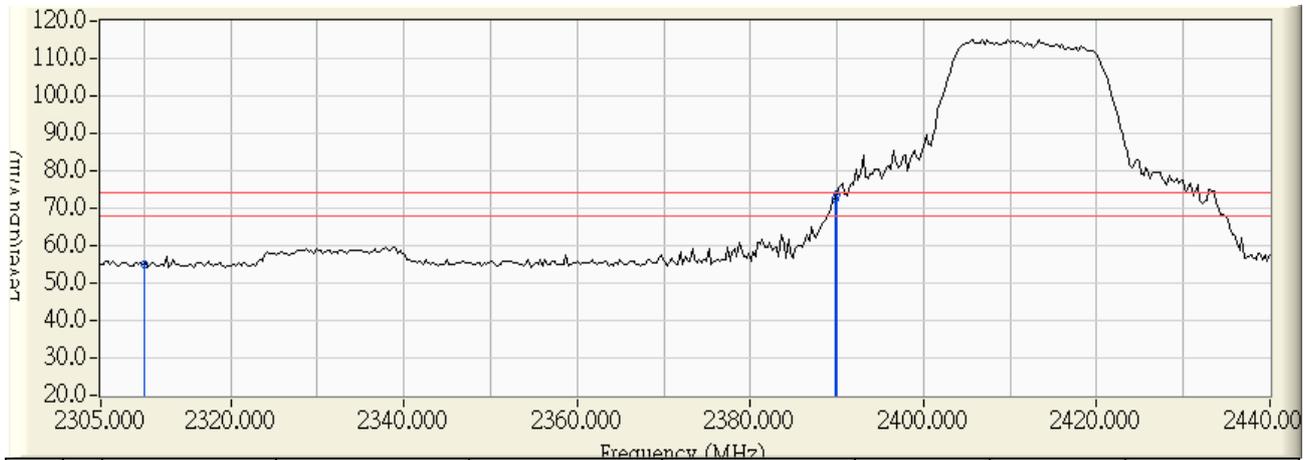


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.082	43.861	-10.139	54.000	AVERAGE
2	2389.780	30.576	15.481	46.057	-7.943	54.000	AVERAGE
3	* 2390.000	30.578	15.694	46.272	-7.728	54.000	AVERAGE

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 : 2012/10/13 - 16:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g

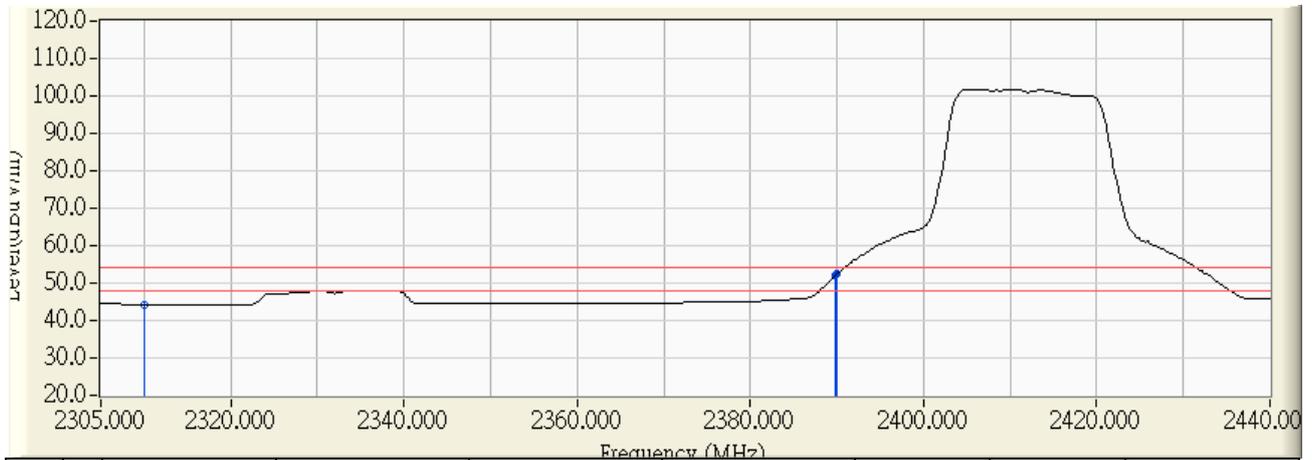


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.286	55.065	-18.935	74.000	PEAK
2	2389.780	30.576	42.110	72.686	-1.314	74.000	PEAK
3	* 2390.000	30.578	43.198	73.776	-0.224	74.000	PEAK

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 : 2012/10/13 - 16:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11g

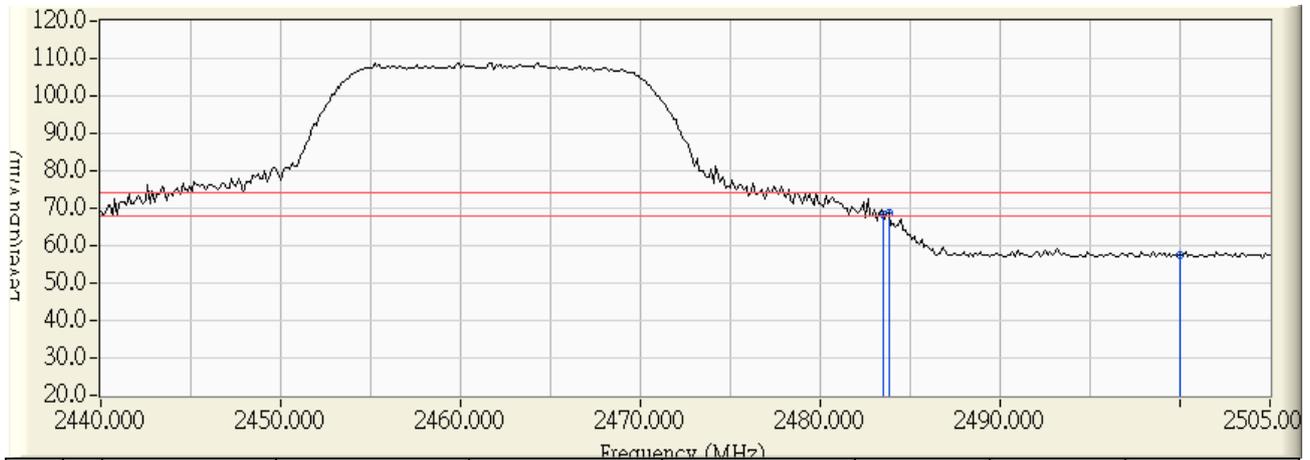


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.444	44.223	-9.777	54.000	AVERAGE
2	2389.780	30.576	21.340	51.916	-2.084	54.000	AVERAGE
3	* 2390.000	30.578	21.835	52.413	-1.587	54.000	AVERAGE

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 : 2012/10/13 - 16:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

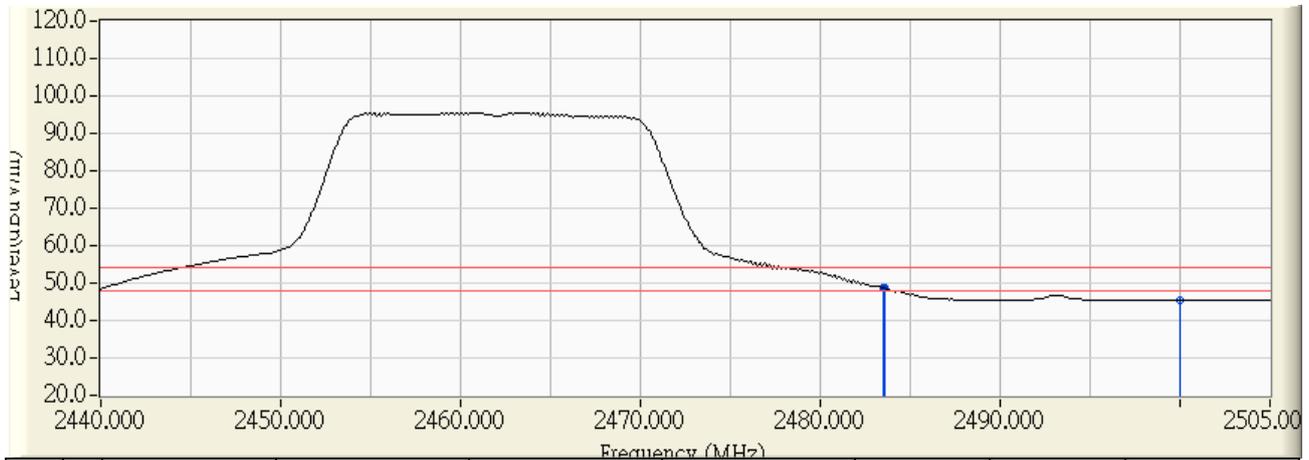


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	36.630	68.142	-5.858	74.000	PEAK
2	* 2483.810	31.515	37.334	68.849	-5.151	74.000	PEAK
3	2500.000	31.638	25.911	57.550	-16.450	74.000	PEAK

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 : 2012/10/13 - 16:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

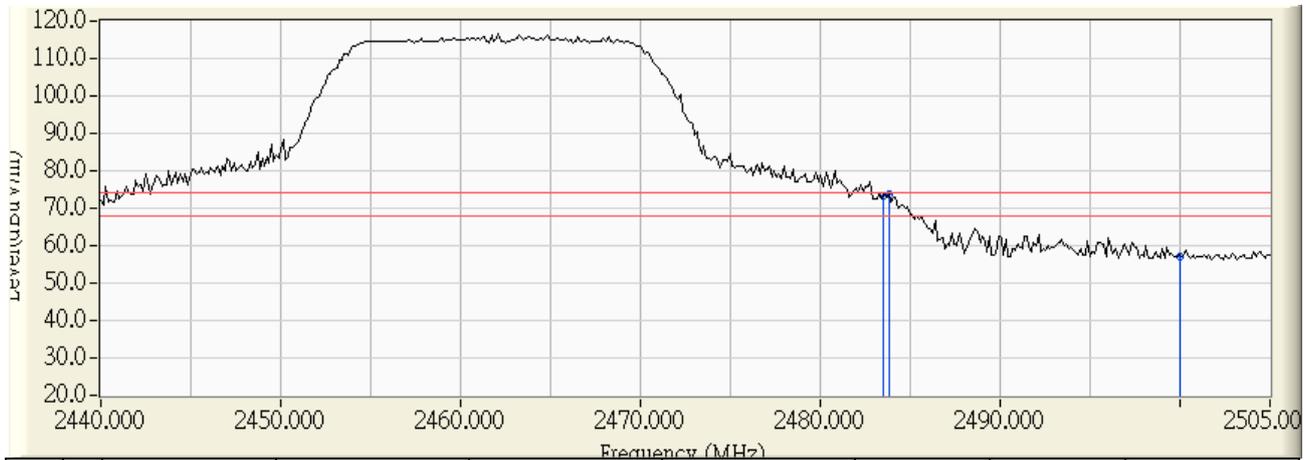


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	17.178	48.690	-5.310	54.000	AVERAGE
2	* 2483.550	31.513	17.188	48.700	-5.300	54.000	AVERAGE
3	2500.000	31.638	13.897	45.536	-8.464	54.000	AVERAGE

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 : 2012/10/13 - 16:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

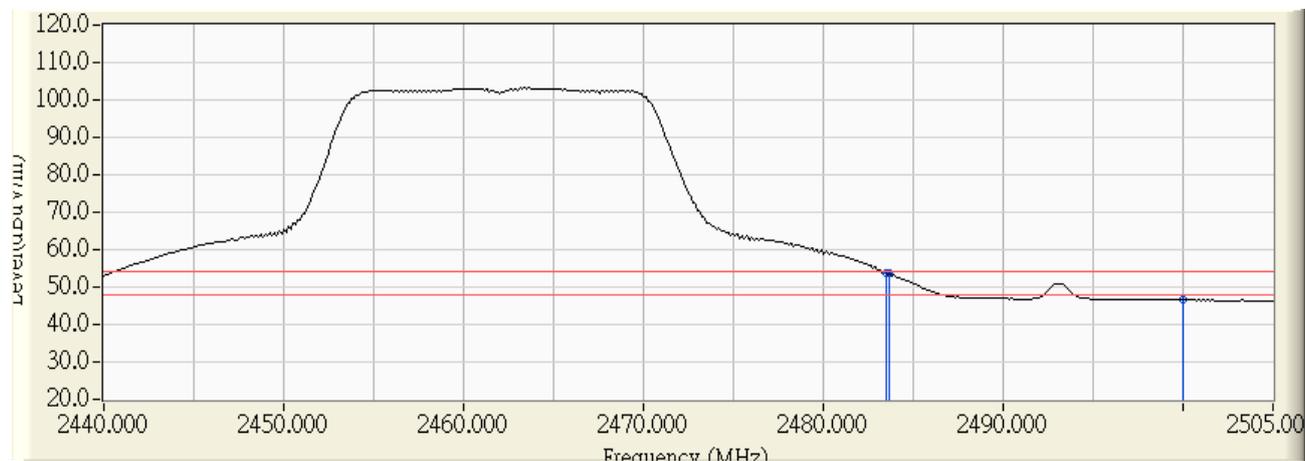


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	41.928	73.440	-0.560	74.000	PEAK
2	* 2483.810	31.515	42.254	73.769	-0.231	74.000	PEAK
3	2500.000	31.638	25.639	57.278	-16.722	74.000	PEAK

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 : 2012/10/13 - 16:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11g

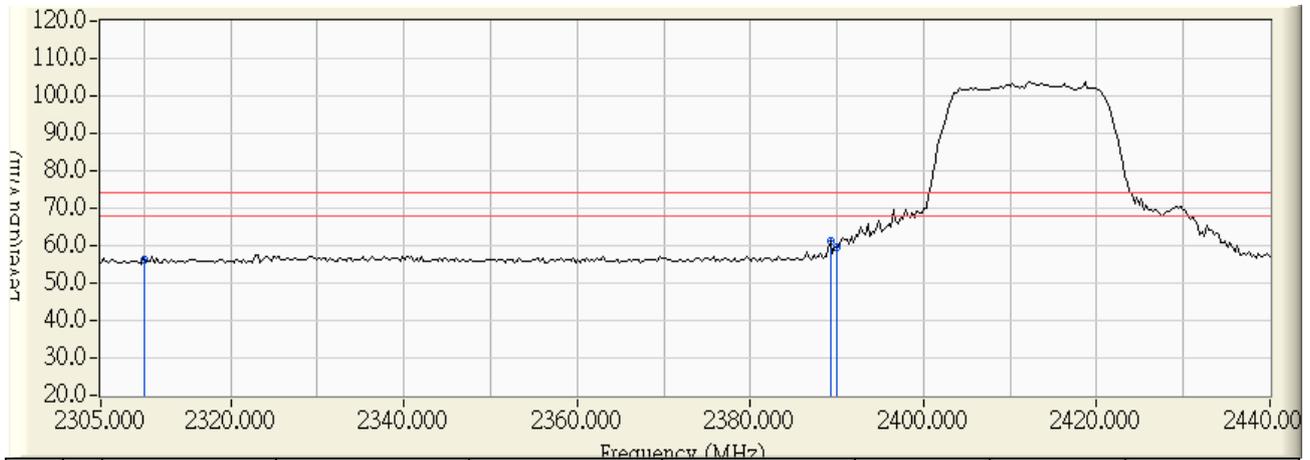


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	22.214	53.726	-0.274	54.000	AVERAGE
2	* 2483.680	31.514	22.225	53.739	-0.261	54.000	AVERAGE
3	2500.000	31.638	14.896	46.535	-7.465	54.000	AVERAGE

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 : 2012/10/11 - 20:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_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	29.779	26.403	56.182	-17.818	74.000	PEAK
2	* 2389.240	30.570	30.477	61.047	-12.953	74.000	PEAK
3	2390.000	30.578	29.026	59.604	-14.396	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 : 2012/10/11 - 20:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11n(20M)

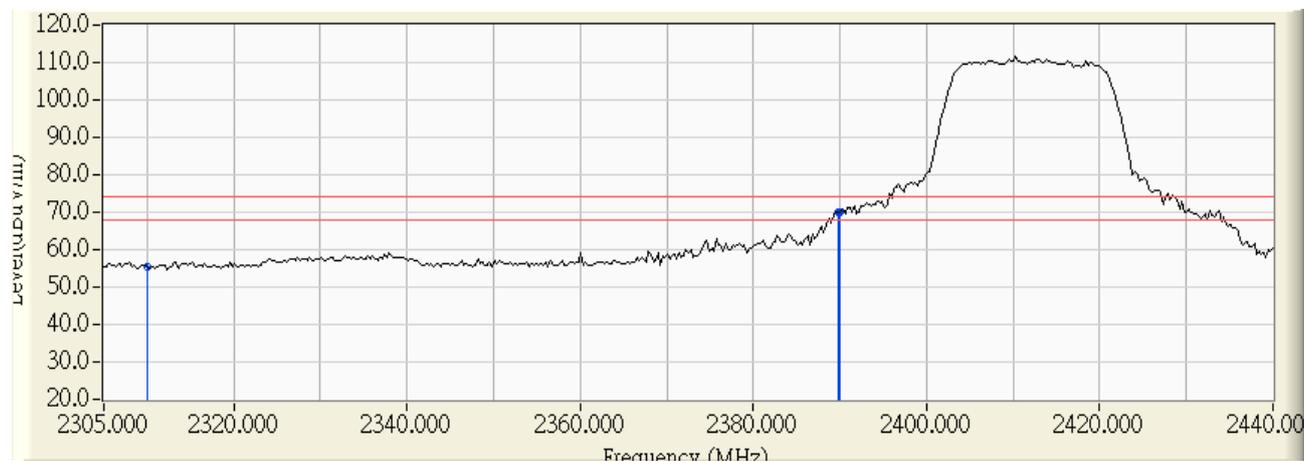


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.115	43.894	-10.106	54.000	AVERAGE
2	2389.780	30.576	14.405	44.981	-9.019	54.000	AVERAGE
3	* 2390.000	30.578	14.449	45.027	-8.973	54.000	AVERAGE

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 : 2012/10/11 - 20:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_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	29.779	25.663	55.442	-18.558	74.000	PEAK
2	2389.780	30.576	39.424	70.000	-4.000	74.000	PEAK
3	* 2390.000	30.578	39.542	70.120	-3.880	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 : 2012/10/11 - 20:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2412MHz_802.11n(20M)

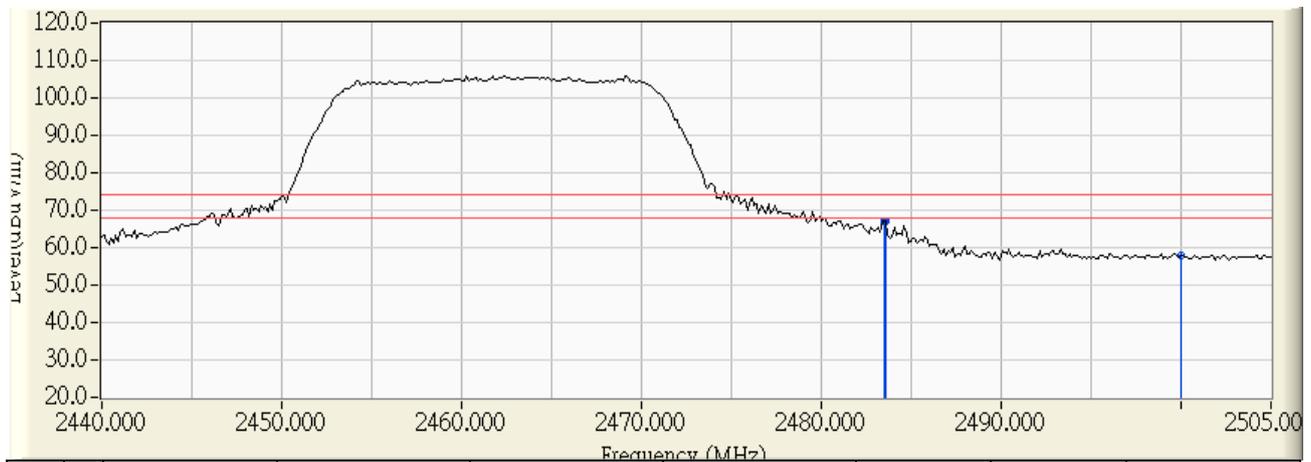


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.413	44.192	-9.808	54.000	AVERAGE
2	2389.780	30.576	17.173	47.749	-6.251	54.000	AVERAGE
3	* 2390.000	30.578	17.317	47.895	-6.105	54.000	AVERAGE

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 : 2012/10/11 - 20:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_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	31.512	35.520	67.032	-6.968	74.000	PEAK
2	* 2483.550	31.513	35.534	67.046	-6.954	74.000	PEAK
3	2500.000	31.638	26.141	57.780	-16.220	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 : 2012/10/11 - 20:35
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11n(20M)

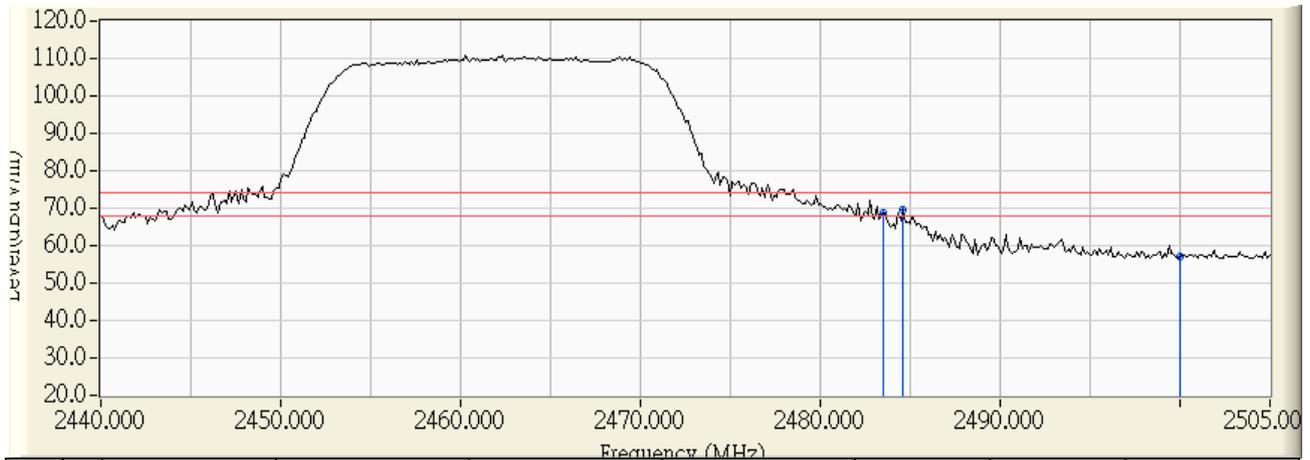


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	15.520	47.032	-6.968	54.000	AVERAGE
2	* 2492.910	31.606	16.113	47.719	-6.281	54.000	AVERAGE
3	2500.000	31.638	14.197	45.836	-8.164	54.000	AVERAGE

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 : 2012/10/11 - 20:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11n(20M)

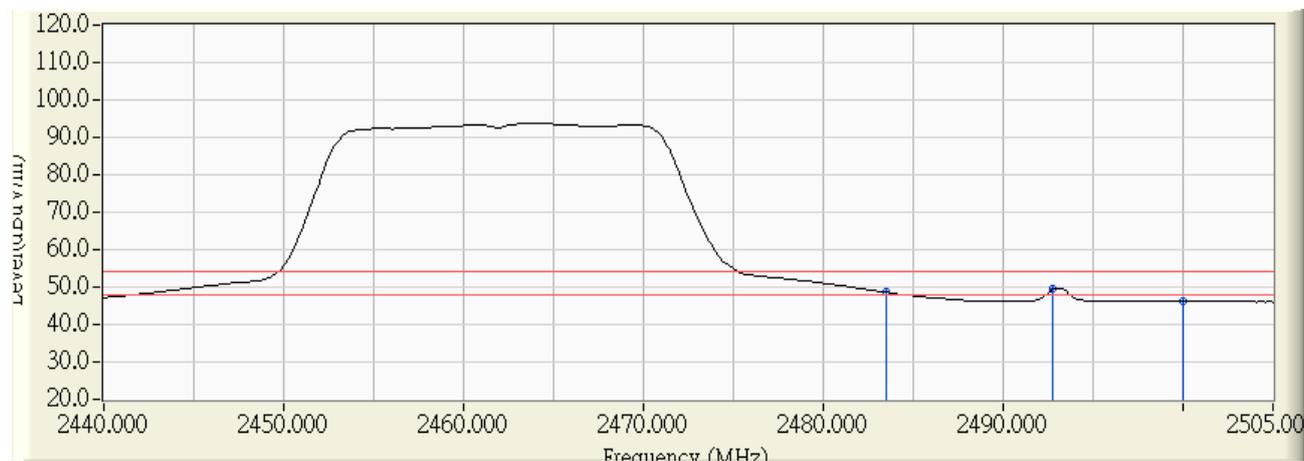


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	37.204	68.716	-5.284	74.000	PEAK
2	* 2484.590	31.523	37.984	69.507	-4.493	74.000	PEAK
3	2500.000	31.638	25.471	57.110	-16.890	74.000	PEAK

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 : 2012/10/11 - 20:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2462MHz_802.11n(20M)

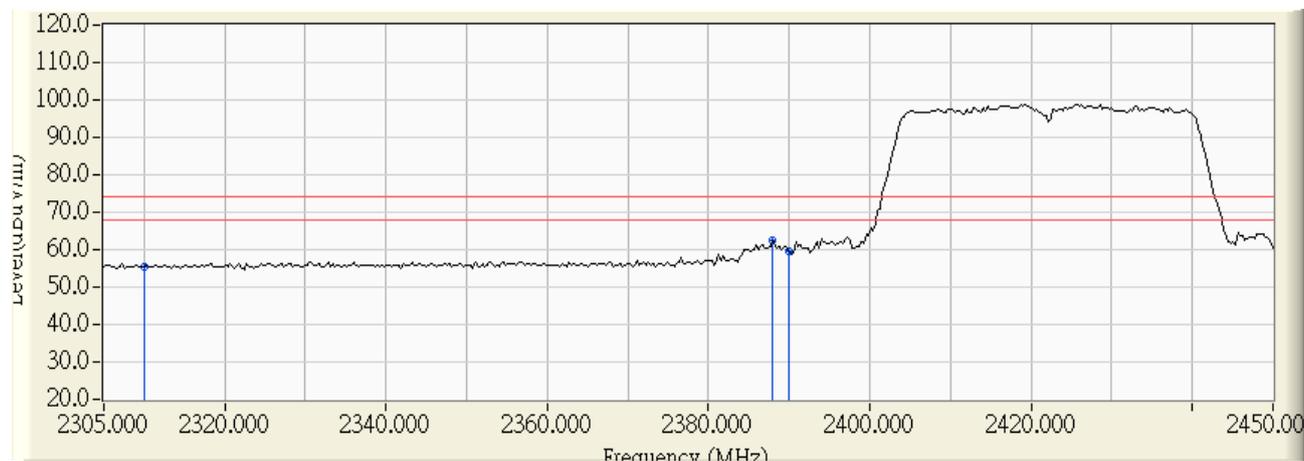


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	17.090	48.602	-5.398	54.000	AVERAGE
2	* 2492.780	31.605	17.776	49.381	-4.619	54.000	AVERAGE
3	2500.000	31.638	14.471	46.110	-7.890	54.000	AVERAGE

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 : 2012/10/13 - 16:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_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	29.779	25.786	55.565	-18.435	74.000	PEAK
2	* 2387.940	30.557	31.760	62.317	-11.683	74.000	PEAK
3	2390.000	30.578	28.810	59.388	-14.612	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 : 2012/10/13 - 16:08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_802.11n(40M)

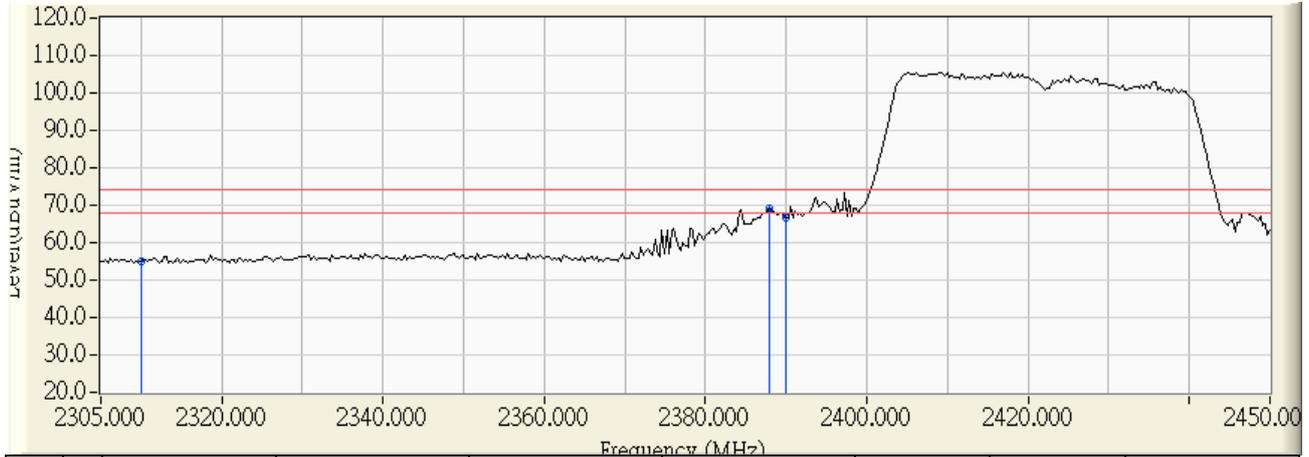


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.010	43.789	-10.211	54.000	AVERAGE
2	2389.680	30.575	14.709	45.284	-8.716	54.000	AVERAGE
3	* 2390.000	30.578	14.739	45.317	-8.683	54.000	AVERAGE

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 : 2012/10/13 - 16:04
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_802.11n(40M)

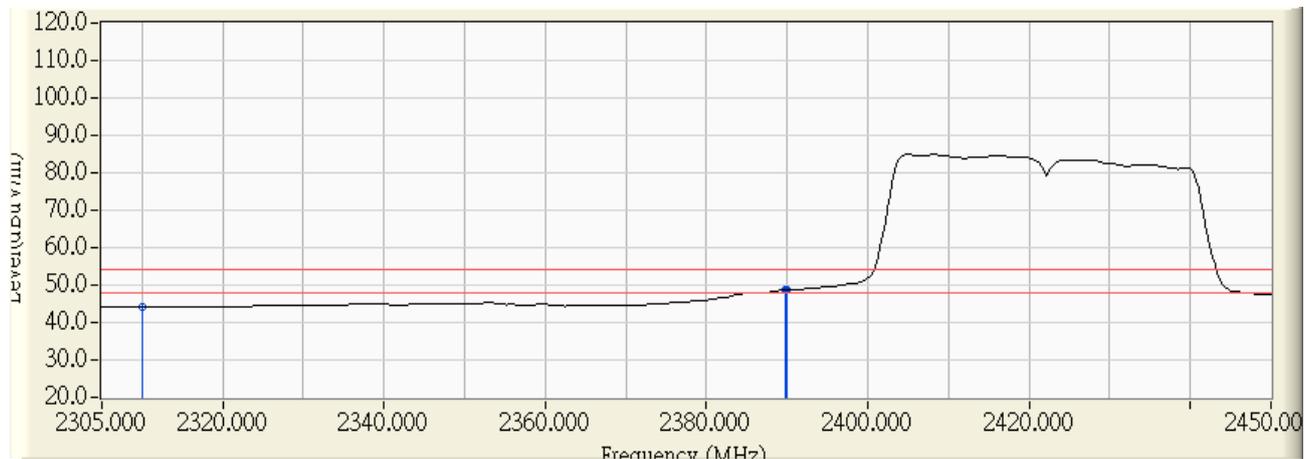


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.192	54.971	-19.029	74.000	PEAK
2	* 2387.940	30.557	38.710	69.267	-4.733	74.000	PEAK
3	2390.000	30.578	35.919	66.497	-7.503	74.000	PEAK

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 : 2012/10/13 - 16:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2422MHz_802.11n(40M)

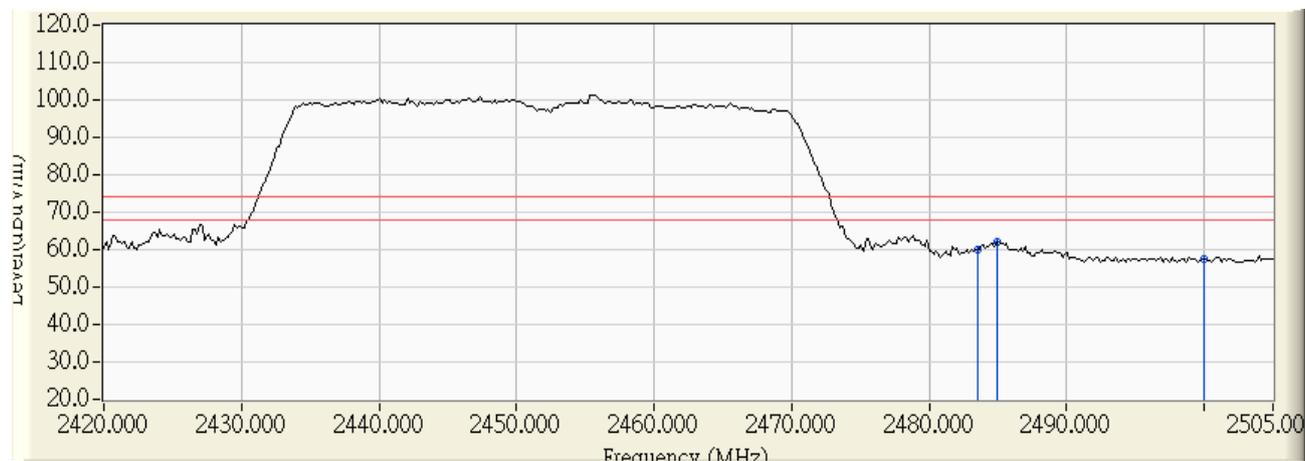


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.290	44.069	-9.931	54.000	AVERAGE
2	2389.680	30.575	18.165	48.740	-5.260	54.000	AVERAGE
3	* 2390.000	30.578	18.203	48.781	-5.219	54.000	AVERAGE

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 : 2012/10/13 - 16:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_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	31.512	28.417	59.929	-14.071	74.000	PEAK
2	* 2484.940	31.526	30.664	62.190	-11.810	74.000	PEAK
3	2500.000	31.638	26.017	57.656	-16.344	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 : 2012/10/13 - 16:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_802.11n(40M)

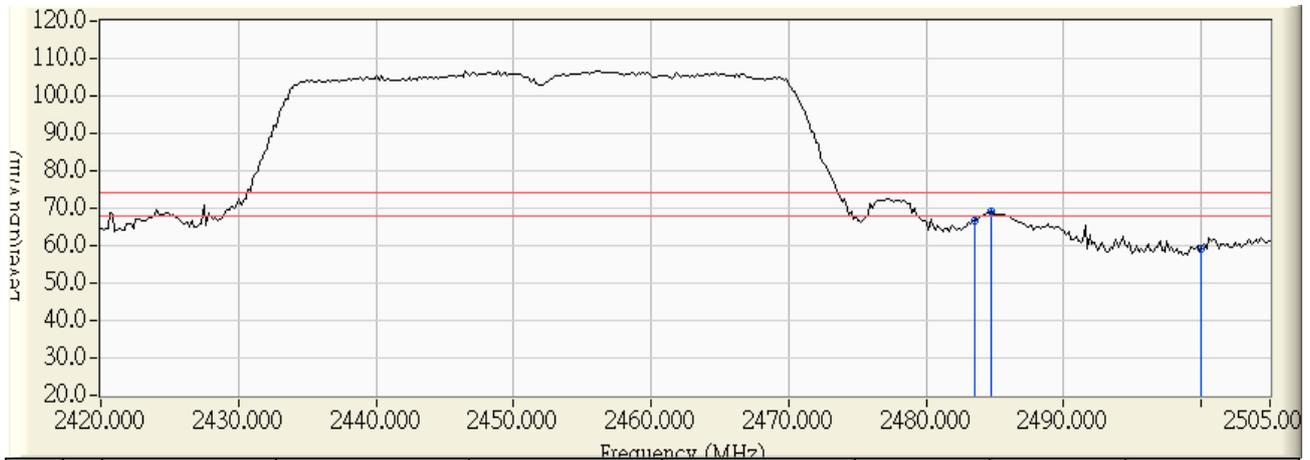


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2483.500	31.512	14.594	46.106	-7.894	54.000	AVERAGE
2		2483.750	31.515	14.580	46.094	-7.906	54.000	AVERAGE
3		2500.000	31.638	13.834	45.473	-8.527	54.000	AVERAGE

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 : 2012/10/13 - 16:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_802.11n(40M)

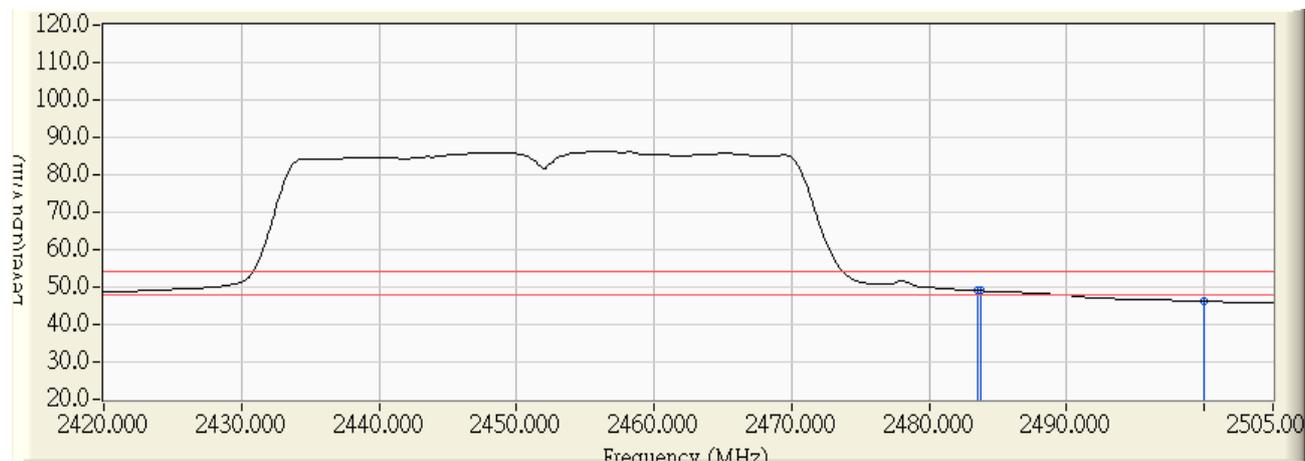


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	35.114	66.626	-7.374	74.000	PEAK
2	* 2484.770	31.525	37.486	69.011	-4.989	74.000	PEAK
3	2500.000	31.638	27.619	59.258	-14.742	74.000	PEAK

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 : 2012/10/13 - 16:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : 2452MHz_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	31.512	17.487	48.999	-5.001	54.000	AVERAGE
2		2483.750	31.515	17.453	48.967	-5.033	54.000	AVERAGE
3		2500.000	31.638	14.503	46.142	-7.858	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

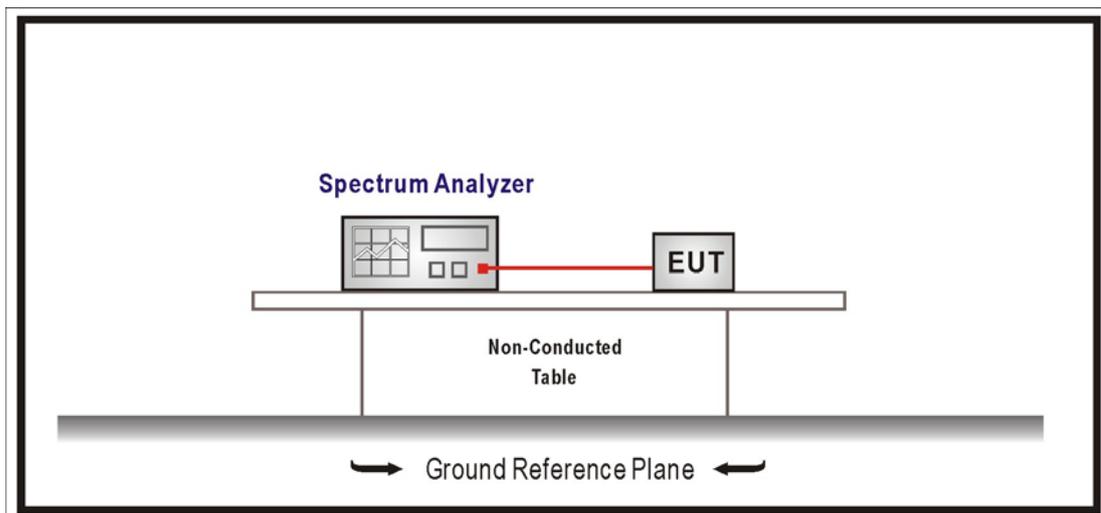
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 Jan. 2012 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: 2011

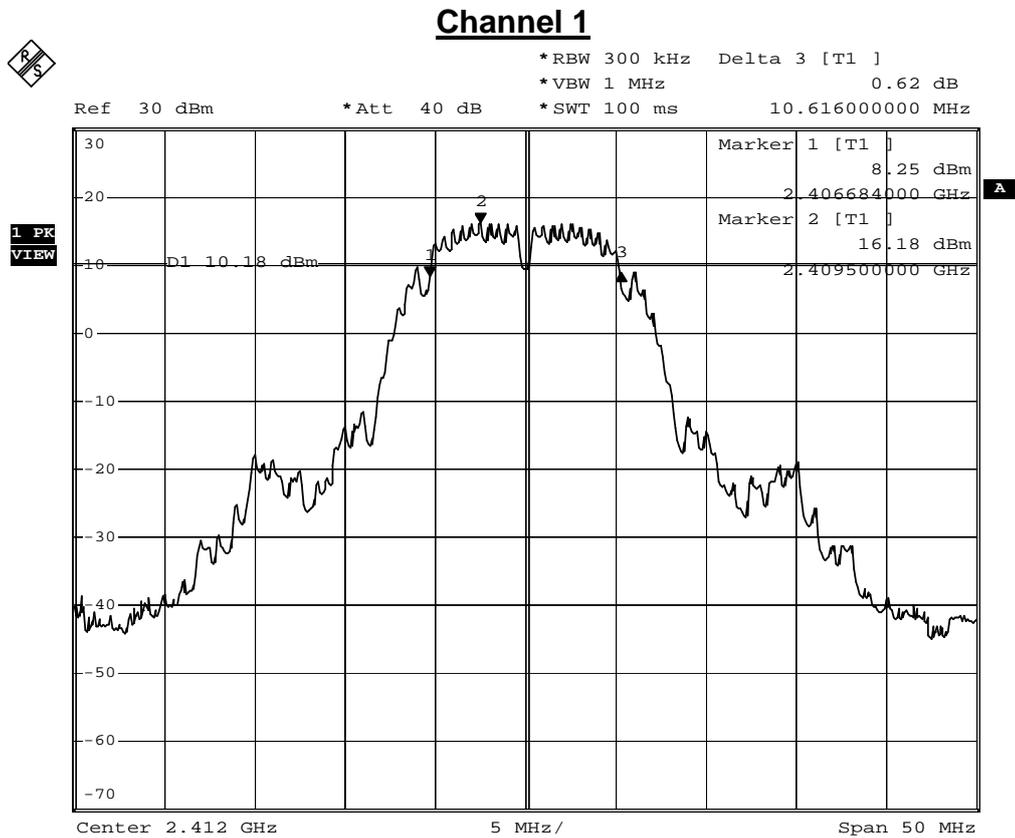
7.6. Uncertainty

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

7.7. Test Result

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.61	≥ 0.5	Pass
6	2437	10.60	≥ 0.5	Pass
11	2462	10.60	≥ 0.5	Pass



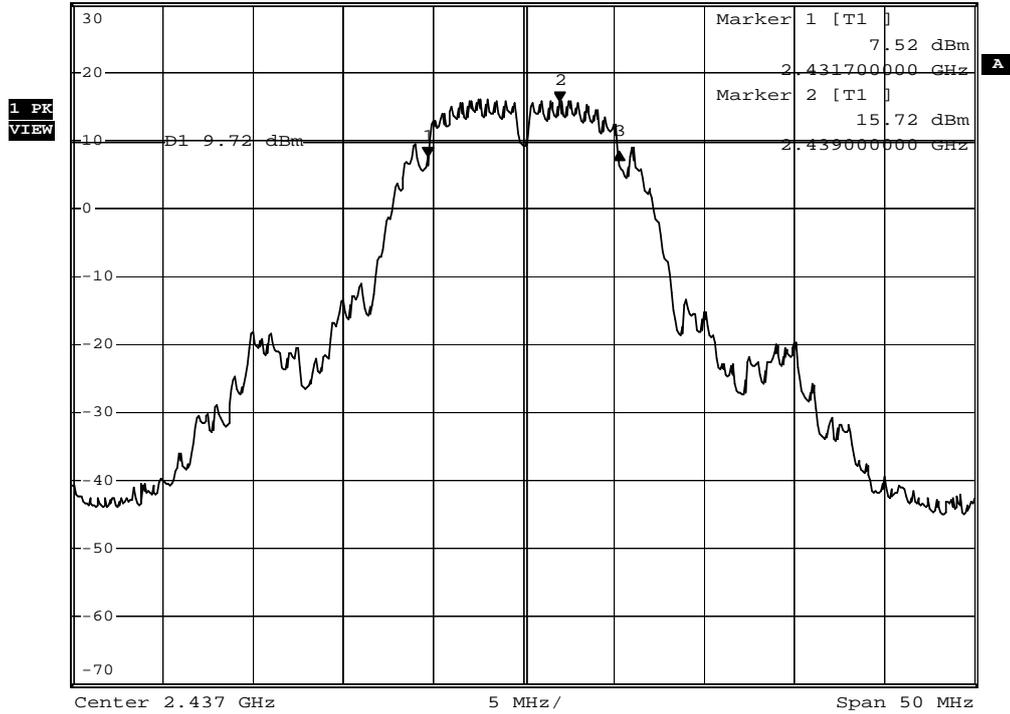
Comment: A:\2
 Date: 15.OCT.2012 11:16:48

Channel 6



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 0.75 dB
 *SWT 100 ms 10.600000000 MHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 15.OCT.2012 11:19:17

Channel 11



*RBW 300 kHz Delta 3 [T1]

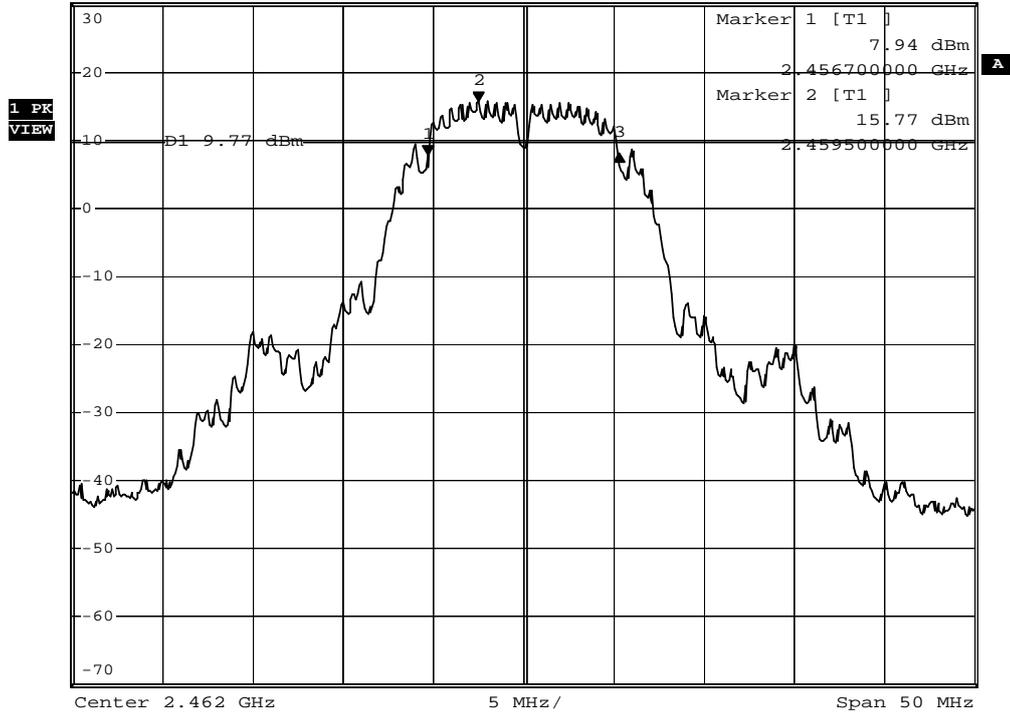
*VBW 1 MHz 0.19 dB

Ref 30 dBm

*Att 40 dB

*SWT 100 ms

10.600000000 MHz

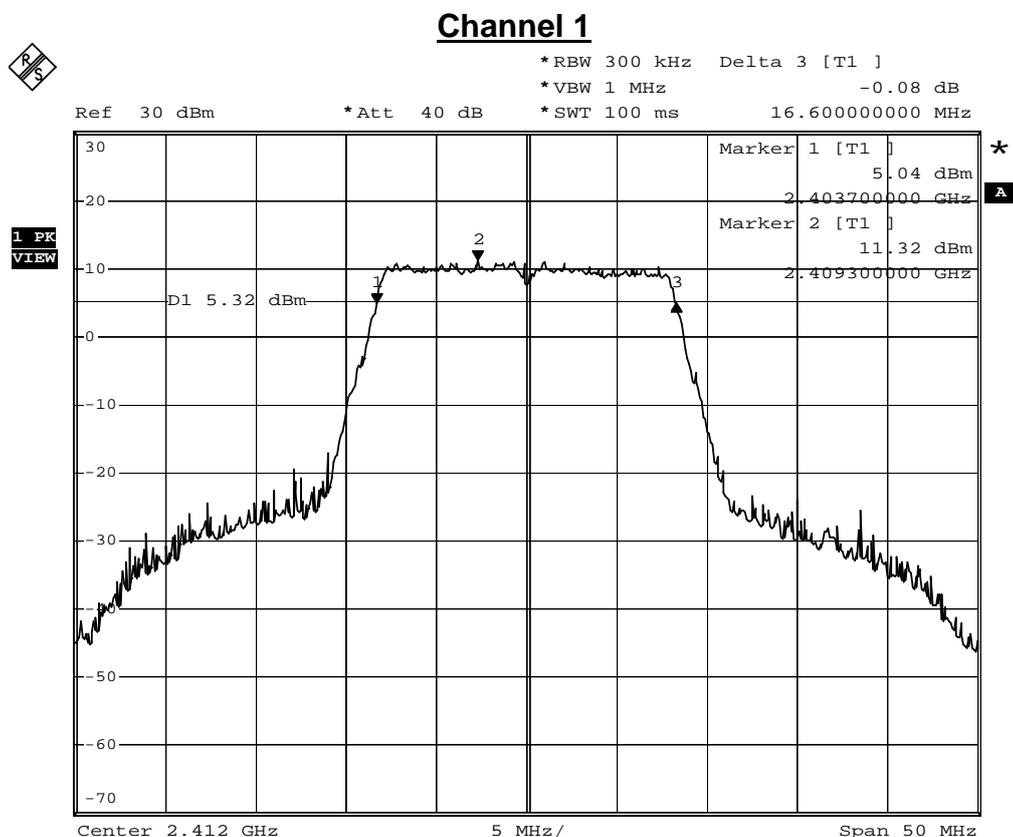


Comment: A:\2

Date: 15.OCT.2012 11:20:37

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.60	≥ 0.5	Pass
6	2437	16.60	≥ 0.5	Pass
11	2462	16.80	≥ 0.5	Pass



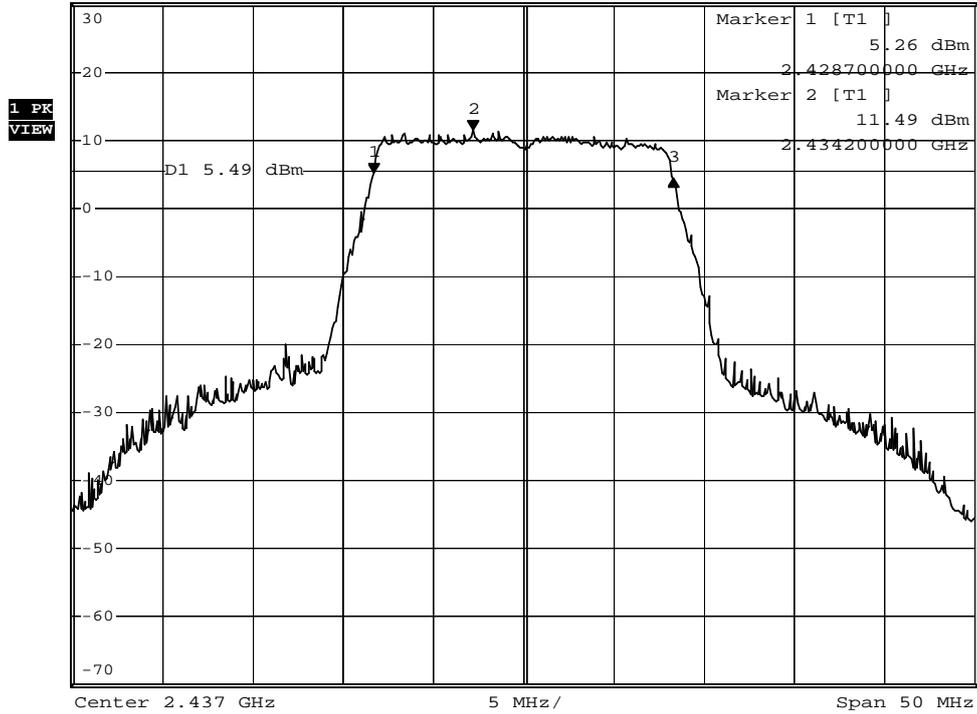
Comment: A:\2
Date: 15.OCT.2012 11:28:21

Channel 6



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -0.83 dB
 *SWT 100 ms 16.600000000 MHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
 Date: 15.OCT.2012 11:23:19

Channel 11

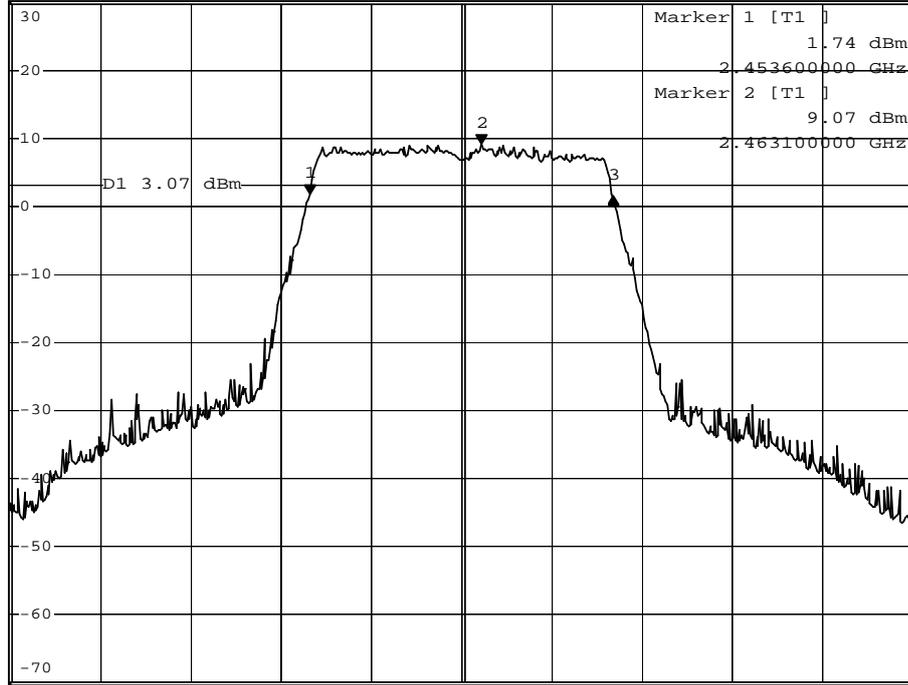


*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -0.33 dB
 *SWT 100 ms 16.800000000 MHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Center 2.462 GHz 5 MHz/ Span 50 MHz

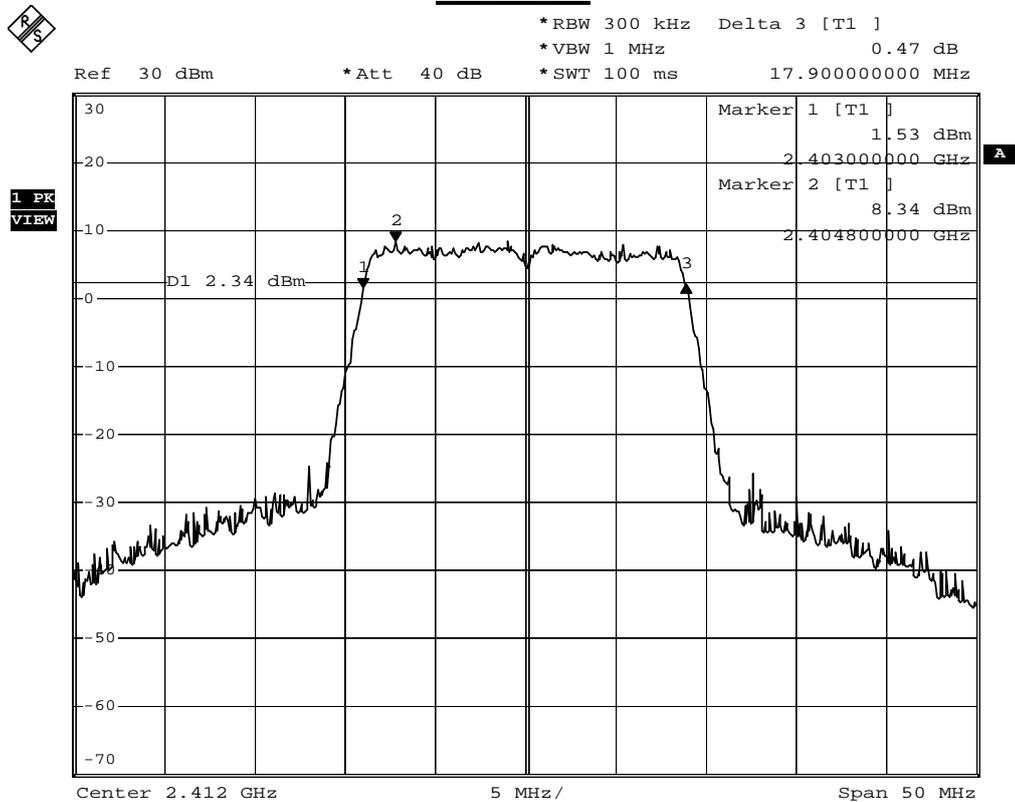
Comment: A:\2

Date: 15.OCT.2012 11:29:25

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	17.90	≥ 0.5	Pass
6	2437	18.00	≥ 0.5	Pass
11	2462	17.80	≥ 0.5	Pass

Channel 1



Comment: A:\2
 Date: 15.OCT.2012 11:43:53

Channel 6



*RBW 300 kHz Delta 3 [T1]

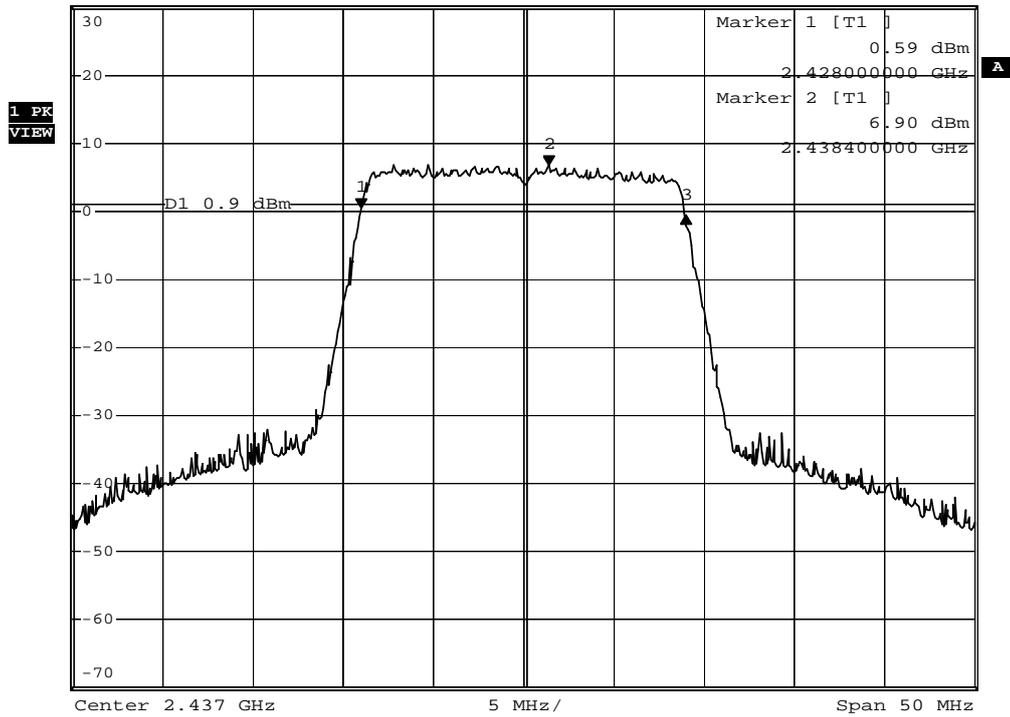
*VBW 1 MHz -1.08 dB

Ref 30 dBm

*Att 40 dB

*SWT 100 ms

18.000000000 MHz



Comment: A:\2

Date: 15.OCT.2012 13:47:20

Channel 11



*RBW 300 kHz Delta 3 [T1]

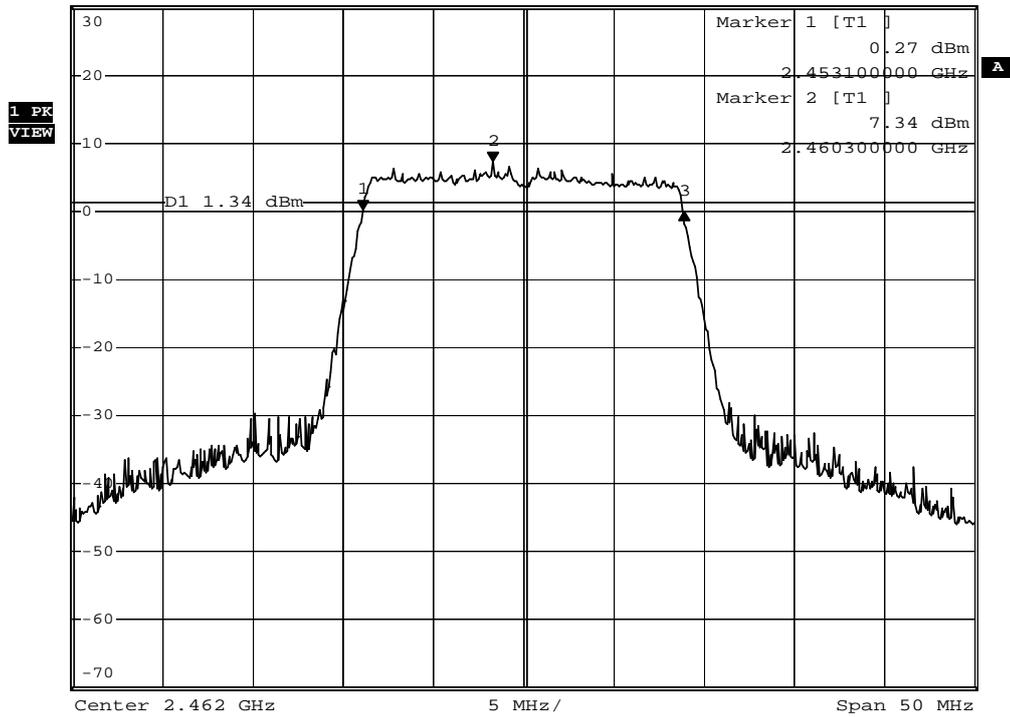
*VBW 1 MHz -0.24 dB

Ref 30 dBm

*Att 40 dB

*SWT 100 ms

17.800000000 MHz



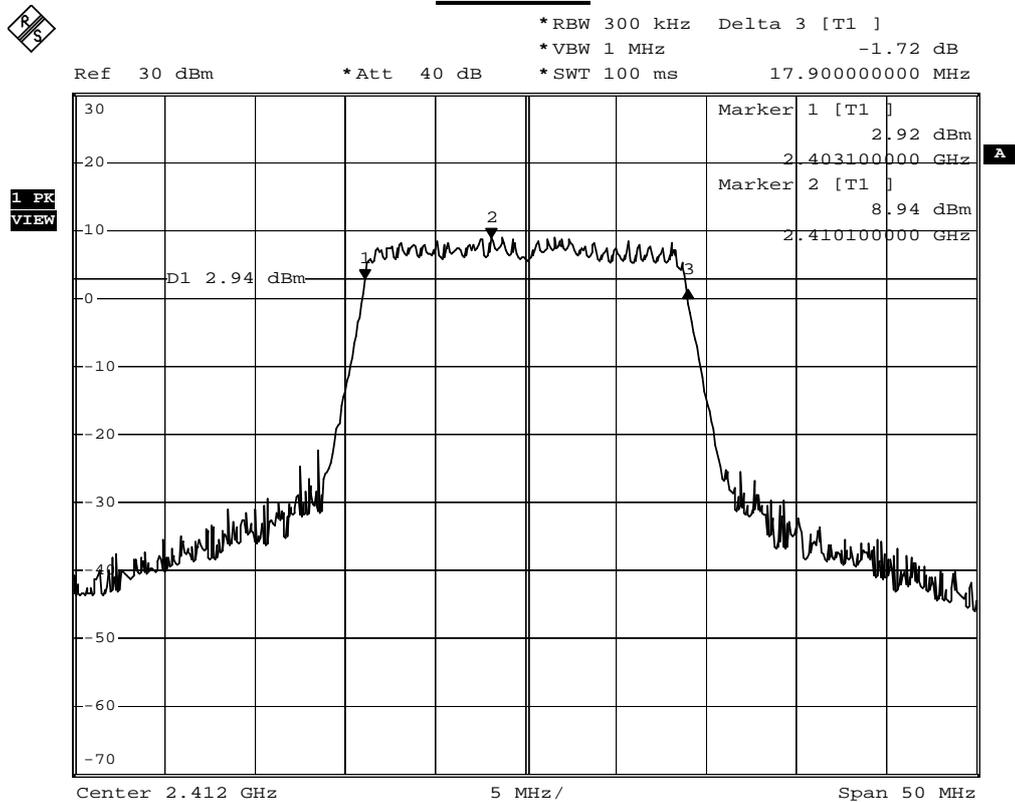
Comment: A:\2

Date: 15.OCT.2012 13:38:44

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	17.90	≥ 0.5	Pass
6	2437	17.90	≥ 0.5	Pass
11	2462	17.90	≥ 0.5	Pass

Channel 1



Comment: A:\2
 Date: 15.OCT.2012 11:48:22

Channel 6

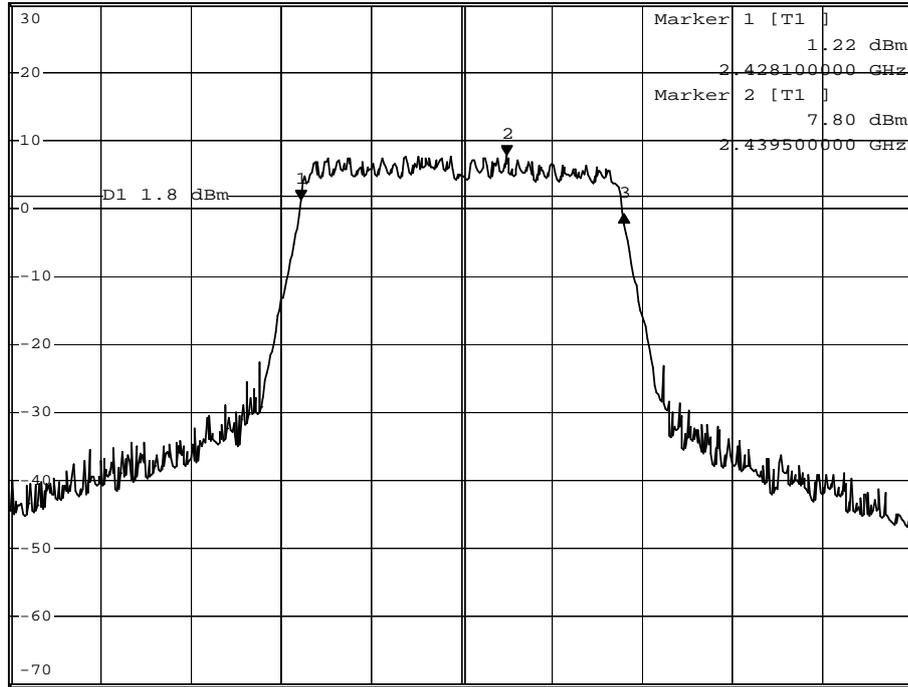


*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -2.01 dB
 *SWT 100 ms 17.900000000 MHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Center 2.437 GHz 5 MHz/ Span 50 MHz

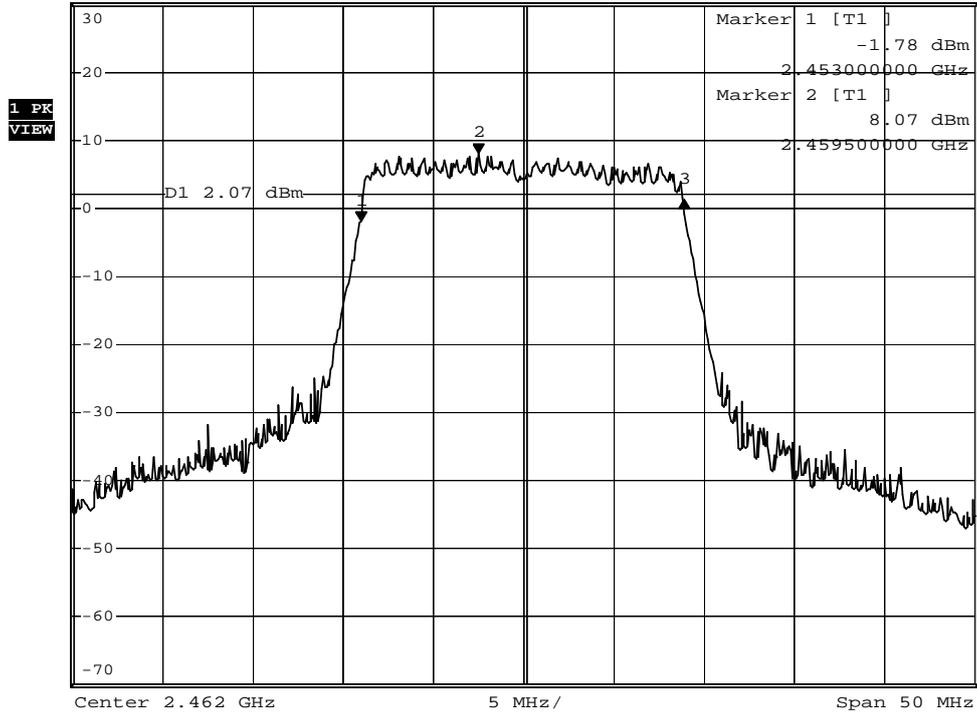
Comment: A:\2
 Date: 15.OCT.2012 12:03:12

Channel 11



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 3.15 dB
 *SWT 100 ms 17.900000000 MHz

Ref 30 dBm *Att 40 dB

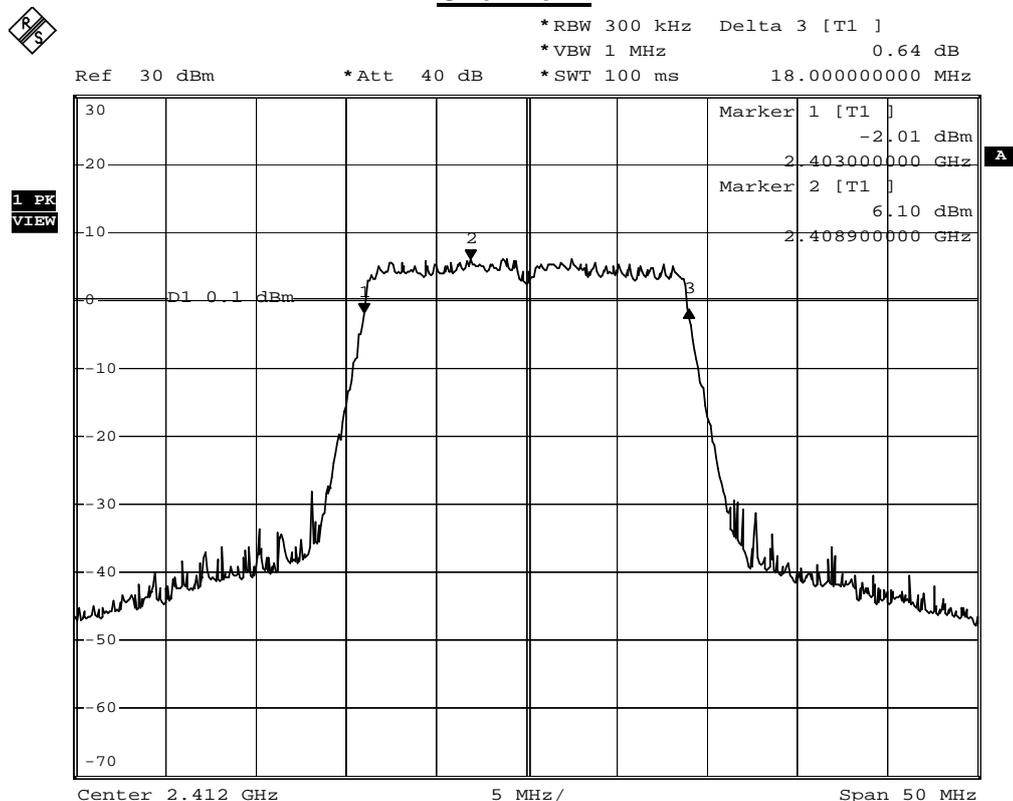


Comment: A:\2
 Date: 15.OCT.2012 13:42:12

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	18.00	≥ 0.5	Pass
6	2437	18.00	≥ 0.5	Pass
11	2462	18.00	≥ 0.5	Pass

Channel 1



Comment: A:\2
 Date: 15.OCT.2012 11:57:22

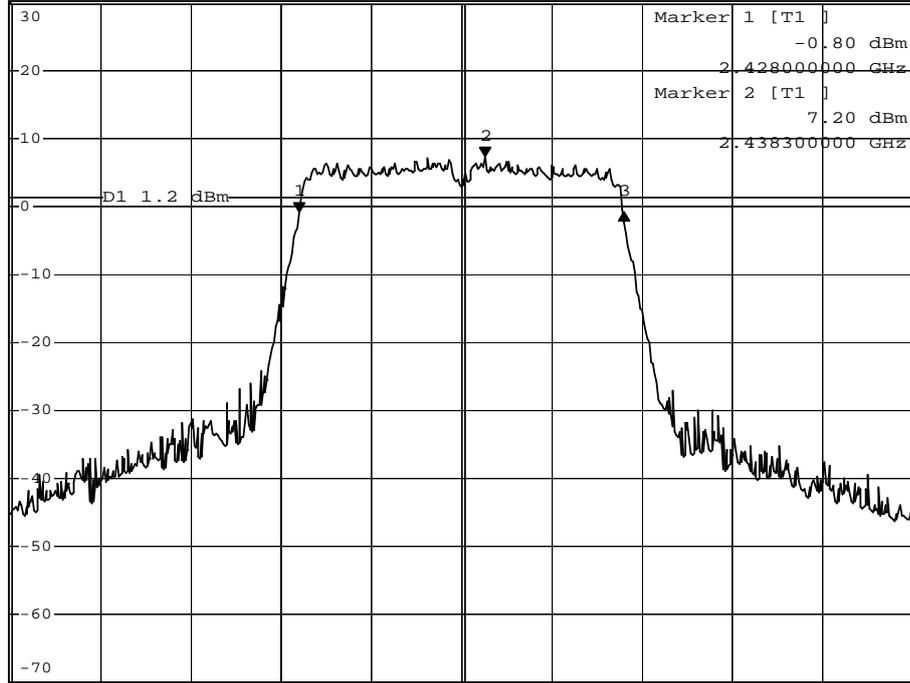
Channel 6



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -0.11 dB
 *SWT 100 ms 18.000000000 MHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 2.437 GHz 5 MHz/ Span 50 MHz

Marker 1 [T1]	-0.80 dBm
2.428000000 GHz	
Marker 2 [T1]	7.20 dBm
2.438300000 GHz	

Comment: A:\2
 Date: 15.OCT.2012 12:01:09

Channel 11



*RBW 300 kHz Delta 3 [T1]

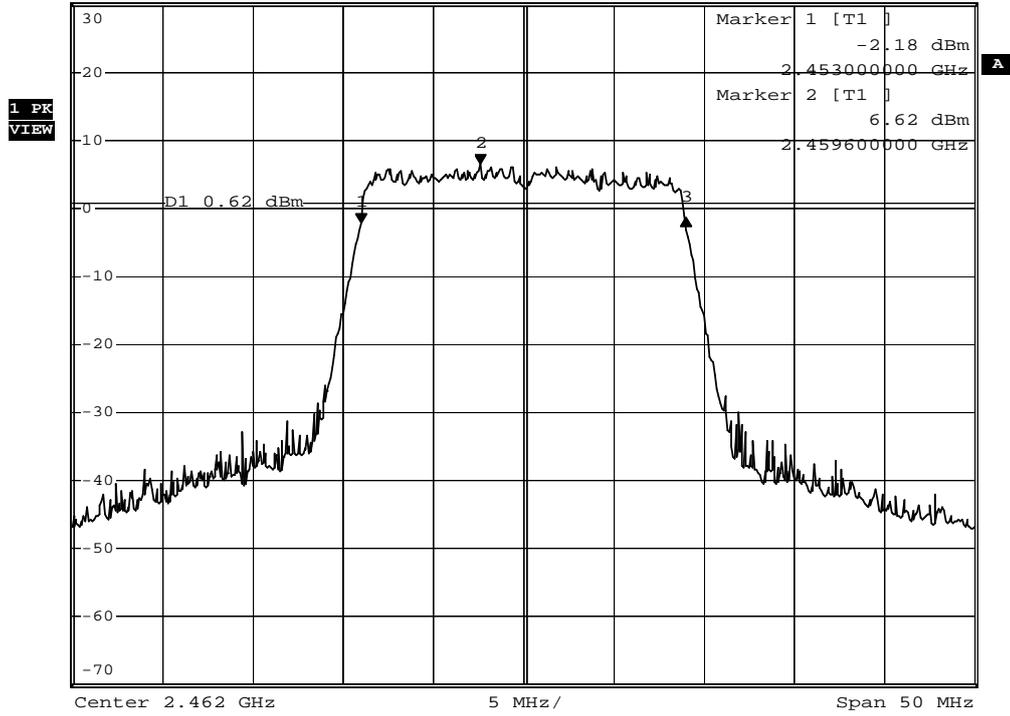
*VBW 1 MHz 0.93 dB

Ref 30 dBm

*Att 40 dB

*SWT 100 ms

18.000000000 MHz



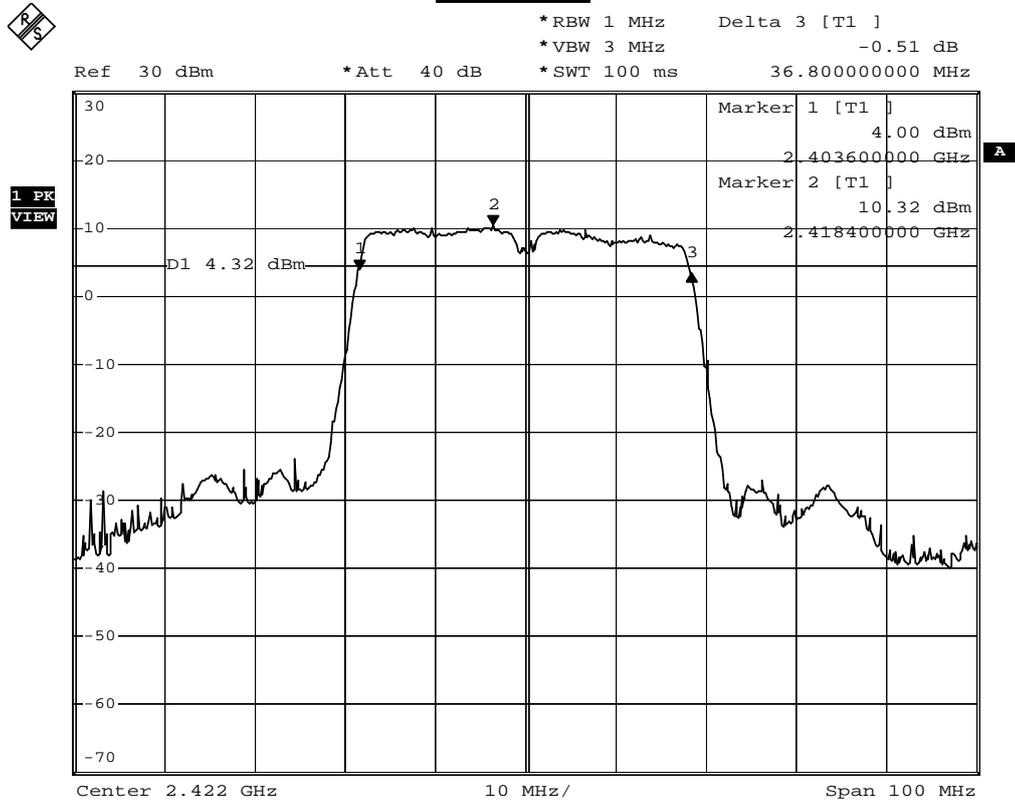
Comment: A:\2

Date: 15.OCT.2012 13:48:48

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.80	≥ 0.5	Pass
6	2437	37.00	≥ 0.5	Pass
9	2452	36.80	≥ 0.5	Pass

Channel 3



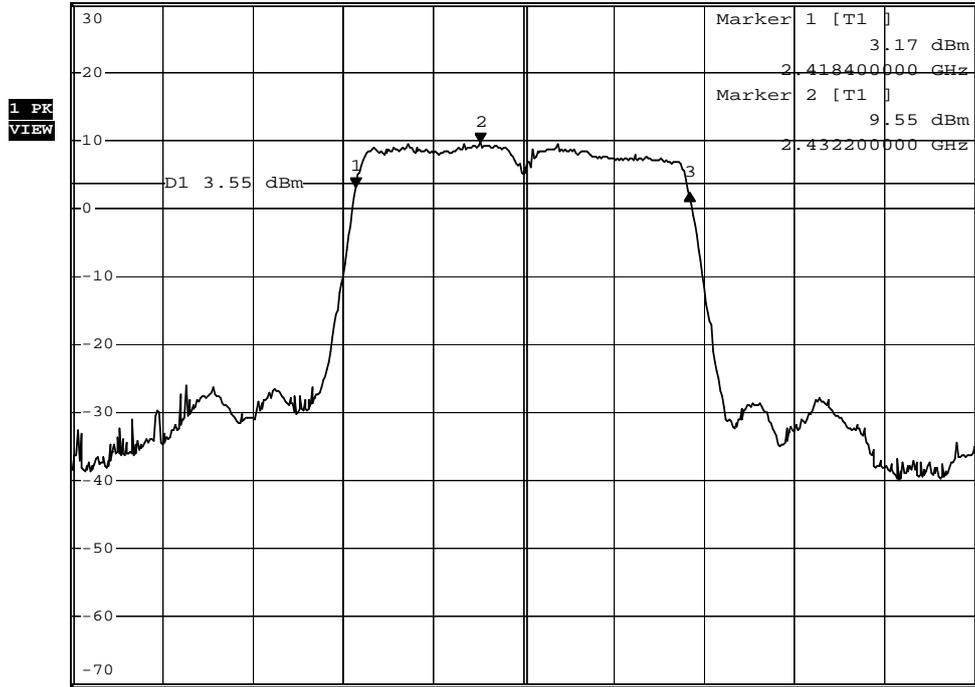
Comment: A:\2
 Date: 15.OCT.2012 14:12:52

Channel 6



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz -0.74 dB
 *SWT 100 ms 37.000000000 MHz

Ref 30 dBm *Att 40 dB



Center 2.437 GHz 10 MHz/ Span 100 MHz

Comment: A:\2
 Date: 15.OCT.2012 15:01:17

Channel 9

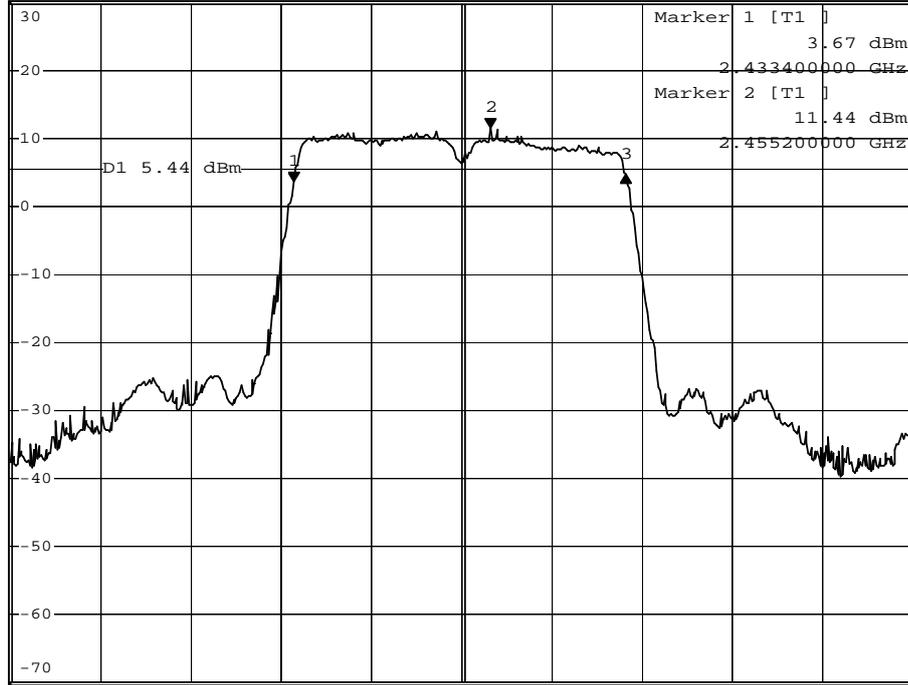


*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz 1.06 dB
 *SWT 100 ms 36.800000000 MHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



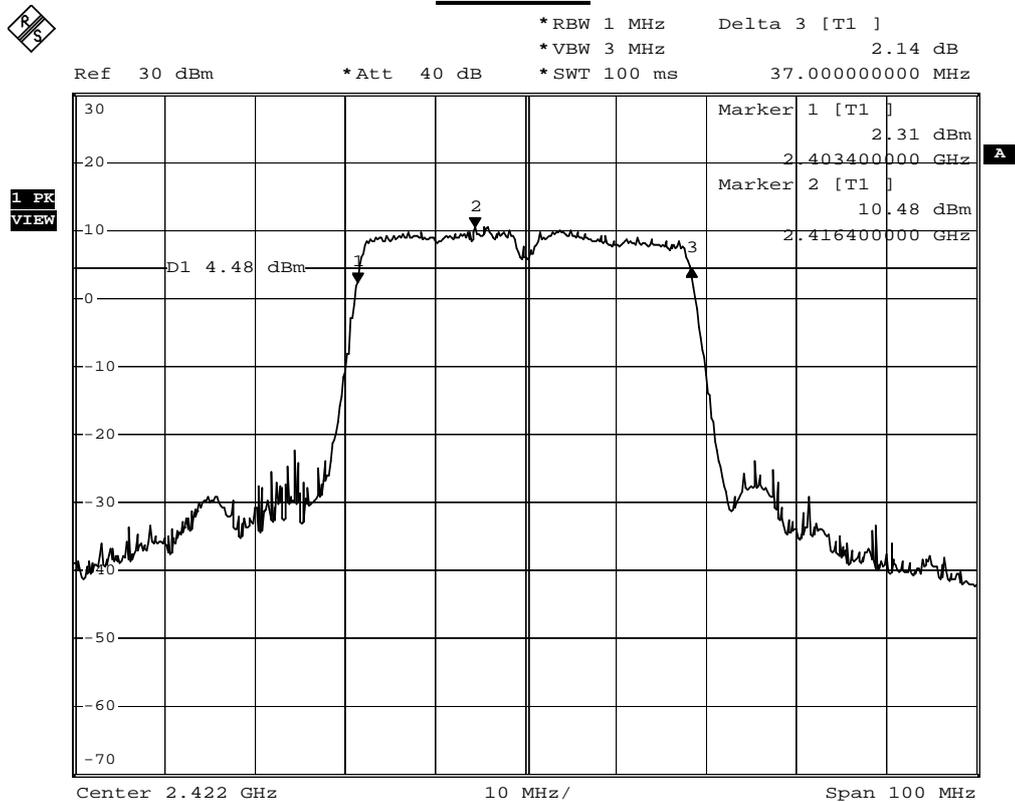
Center 2.452 GHz 10 MHz/ Span 100 MHz

Comment: A:\2
 Date: 15.OCT.2012 15:27:13

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	37.00	≥ 0.5	Pass
6	2437	36.80	≥ 0.5	Pass
9	2452	36.80	≥ 0.5	Pass

Channel 3



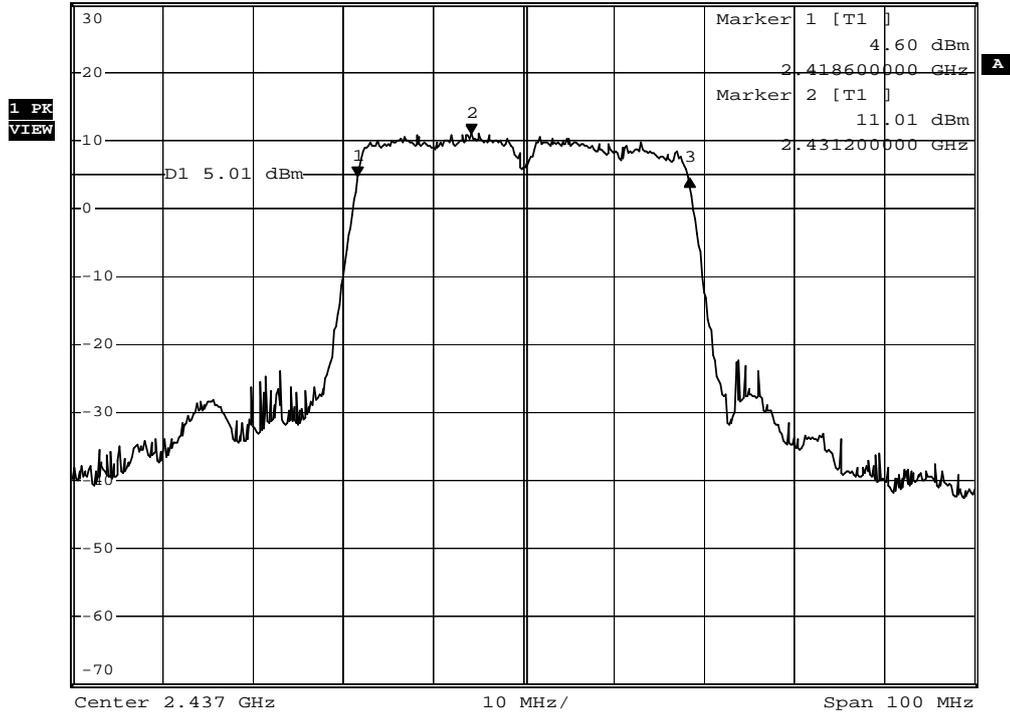
Comment: A:\2
 Date: 15.OCT.2012 14:15:24

Channel 6



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz -0.09 dB
 *SWT 100 ms

Ref 30 dBm *Att 40 dB 36.800000000 MHz



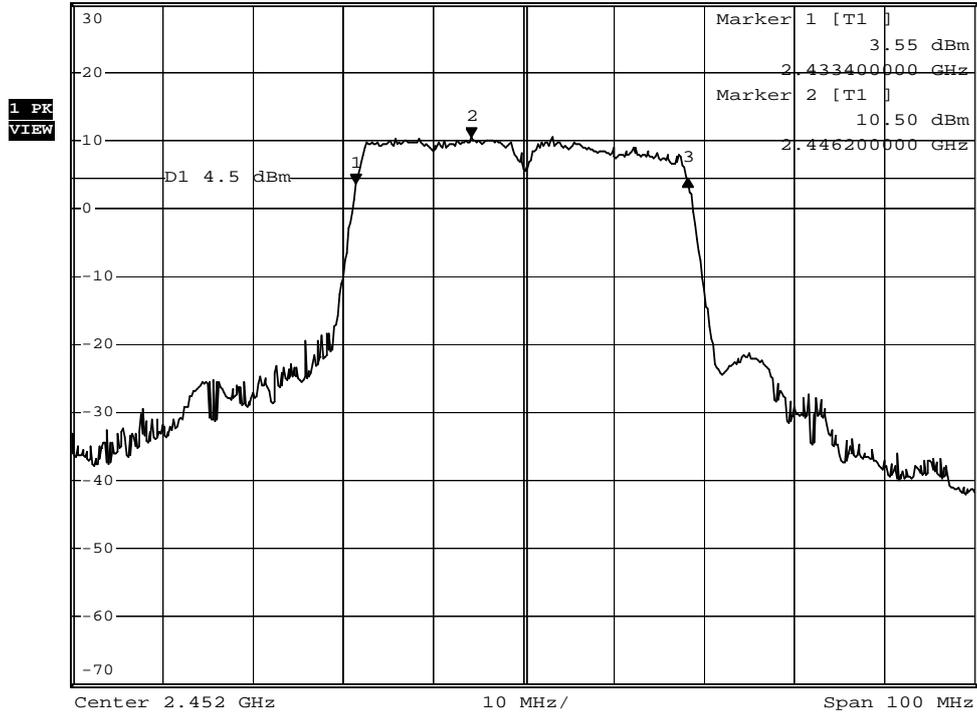
Comment: A:\2
 Date: 15.OCT.2012 14:57:59

Channel 9



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz 0.87 dB
 *SWT 100 ms 36.800000000 MHz

Ref 30 dBm *Att 40 dB

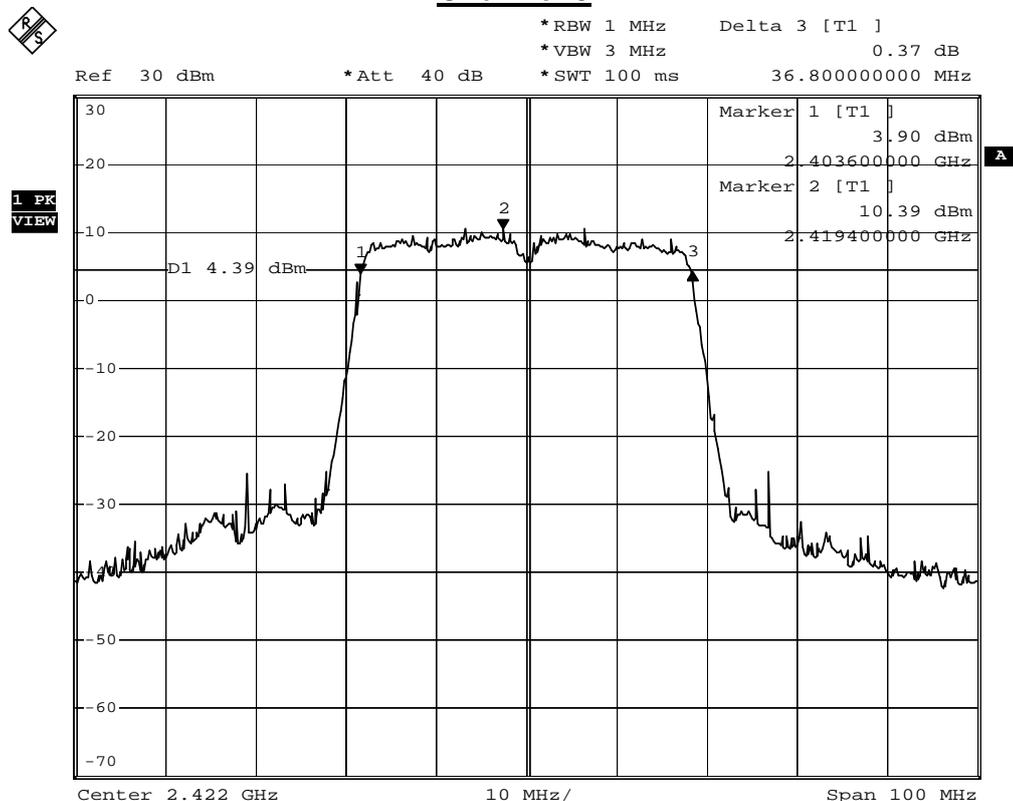


Comment: A:\2
 Date: 15.OCT.2012 15:29:53

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.80	≥ 0.5	Pass
6	2437	36.60	≥ 0.5	Pass
9	2452	36.64	≥ 0.5	Pass

Channel 3



Comment: A:\2
 Date: 15.OCT.2012 14:19:28

Channel 6

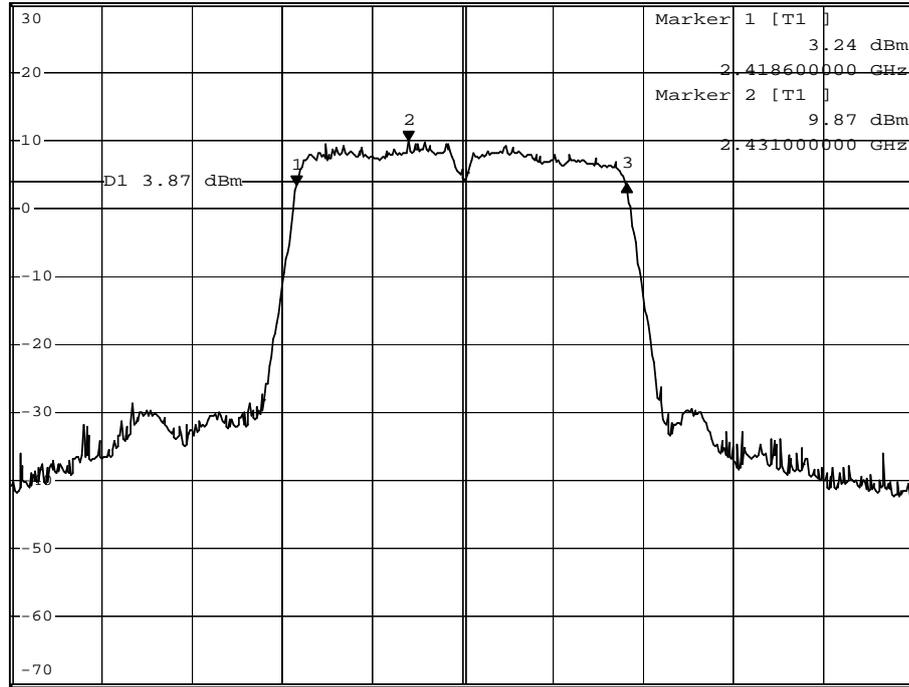


*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz 0.28 dB
 *SWT 100 ms 36.60000000 MHz

Ref 30 dBm

*Att 40 dB

1 PK
VIEW



Center 2.437 GHz 10 MHz/ Span 100 MHz

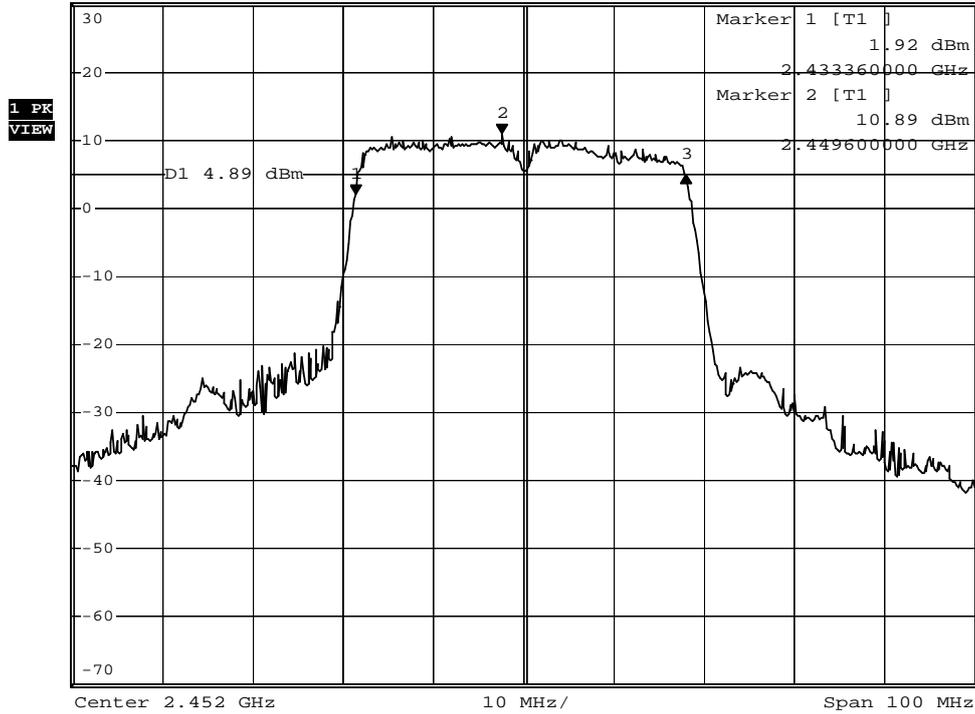
Comment: A:\2
 Date: 15.OCT.2012 14:27:26

Channel 9



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz 2.89 dB
 *SWT 100 ms 36.640000000 MHz

Ref 30 dBm *Att 40 dB

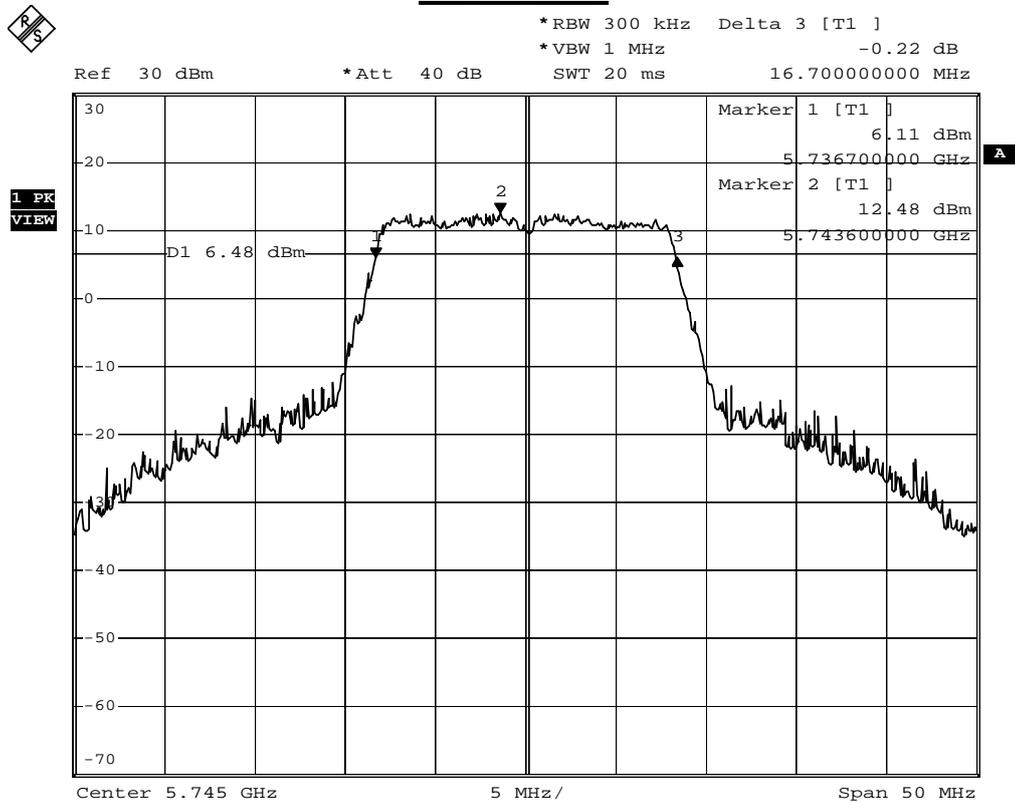


Comment: A:\2
 Date: 15.OCT.2012 15:33:36

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

802.11 a				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.70	≥ 0.5	Pass
157	5785	16.70	≥ 0.5	Pass
165	5825	16.60	≥ 0.5	Pass

Channel 149



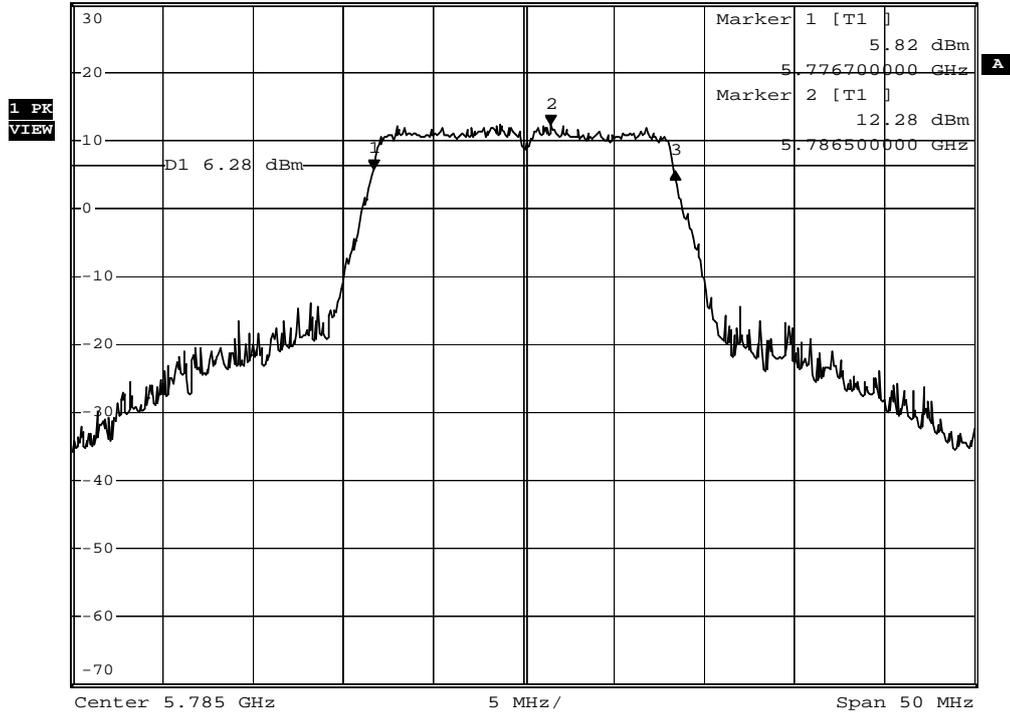
Comment: A:\2
 Date: 16.OCT.2012 10:07:30

Channel 157



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -0.32 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 16.700000000 MHz



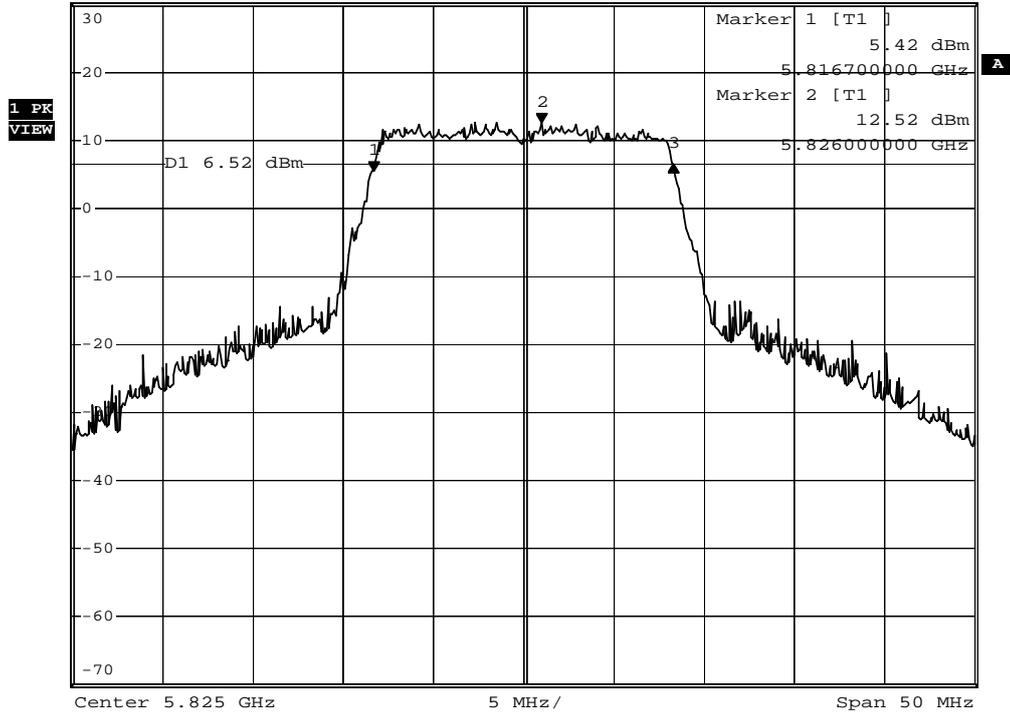
Comment: A:\2
 Date: 16.OCT.2012 10:09:38

Channel 165



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 1.03 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 16.600000000 MHz

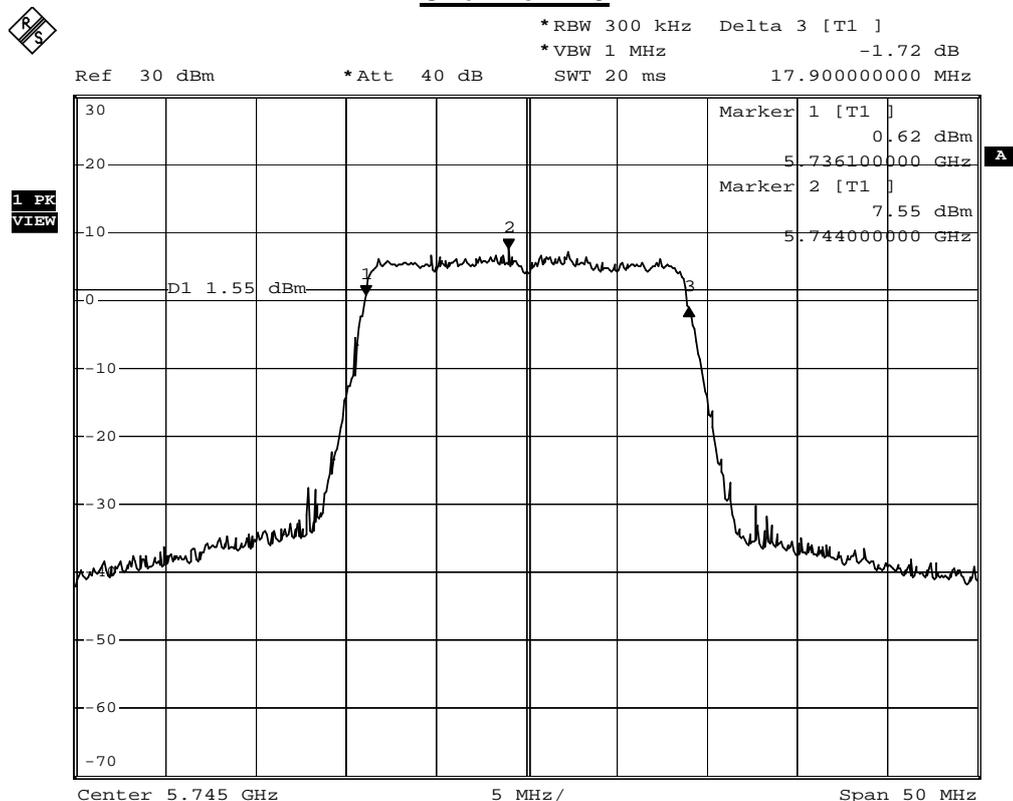


Comment: A:\2
 Date: 16.OCT.2012 10:12:03

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.90	≥ 0.5	Pass
157	5785	17.90	≥ 0.5	Pass
165	5825	17.80	≥ 0.5	Pass

Channel 149



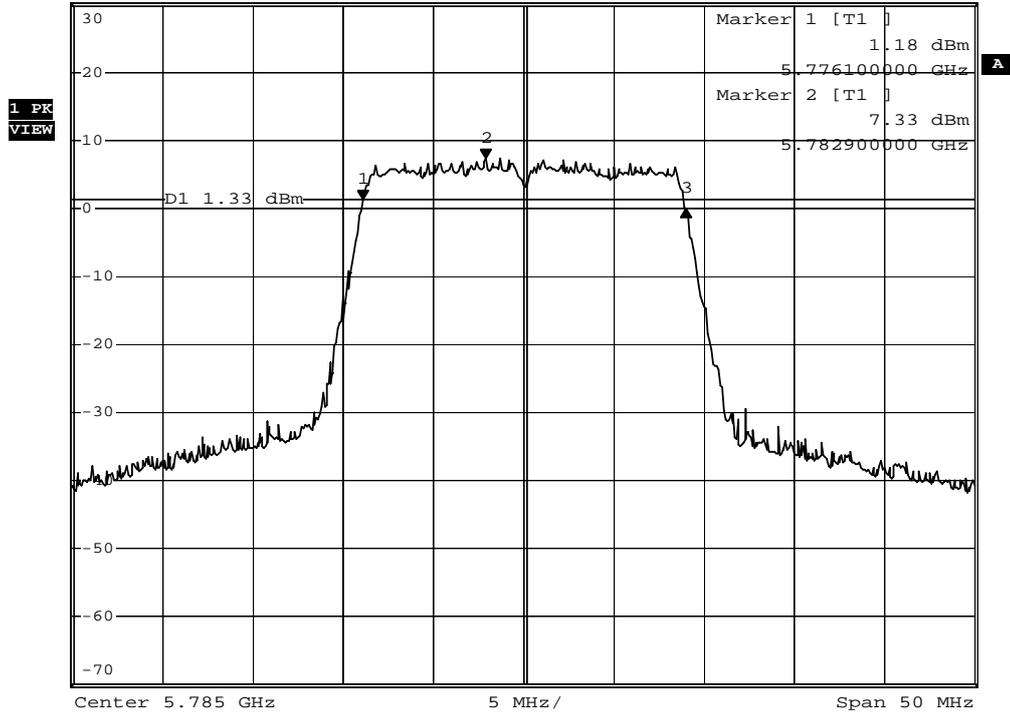
Comment: A:\2
 Date: 16.OCT.2012 10:59:20

Channel 157



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -1.32 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 17.900000000 MHz



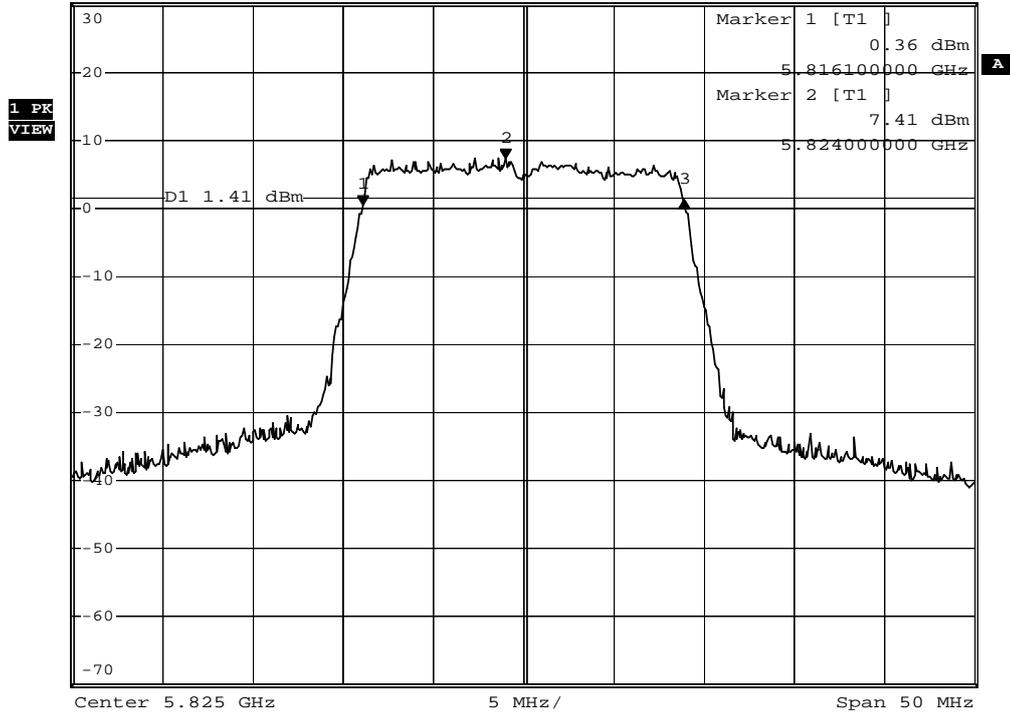
Comment: A:\2
 Date: 16.OCT.2012 10:51:08

Channel 165



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 1.02 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 17.800000000 MHz

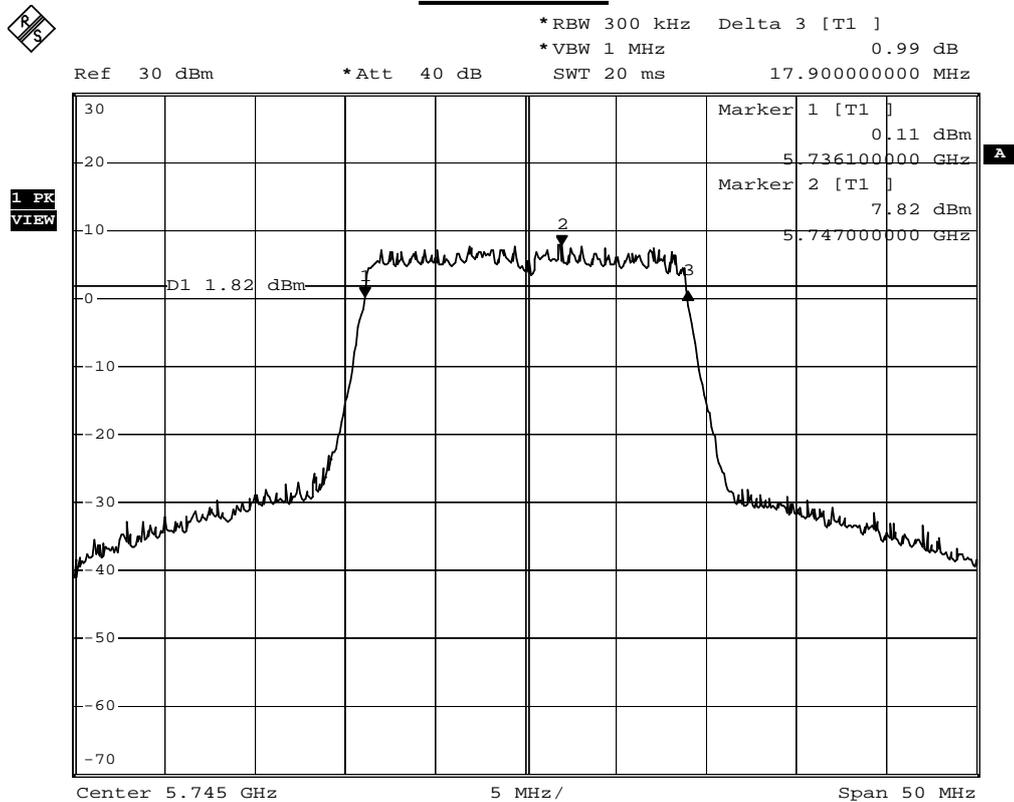


Comment: A:\2
 Date: 16.OCT.2012 10:21:19

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.90	≥ 0.5	Pass
157	5785	17.90	≥ 0.5	Pass
165	5825	17.90	≥ 0.5	Pass

Channel 149



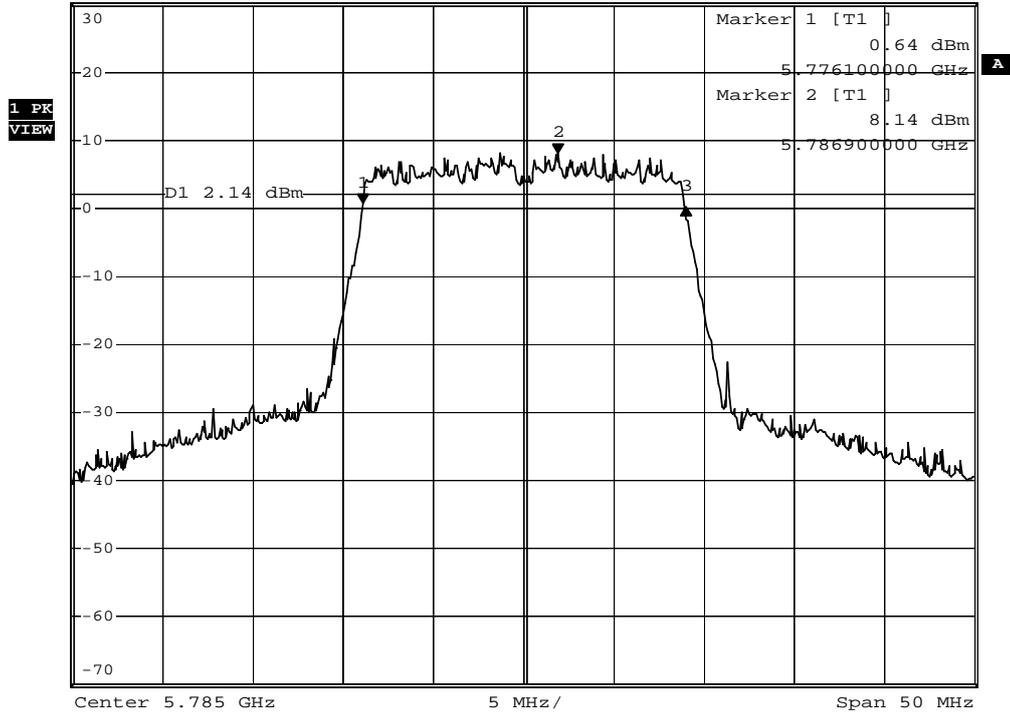
Comment: A:\2
 Date: 16.OCT.2012 11:04:32

Channel 157



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz -0.36 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 17.900000000 MHz



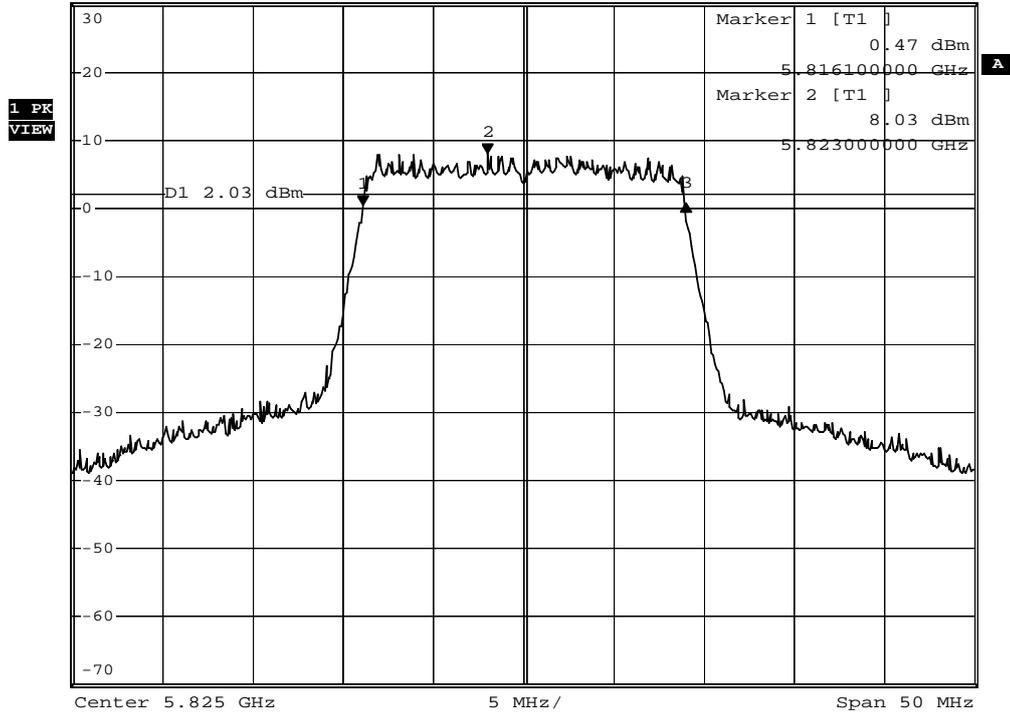
Comment: A:\2
 Date: 16.OCT.2012 10:48:16

Channel 165



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 0.29 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 17.900000000 MHz

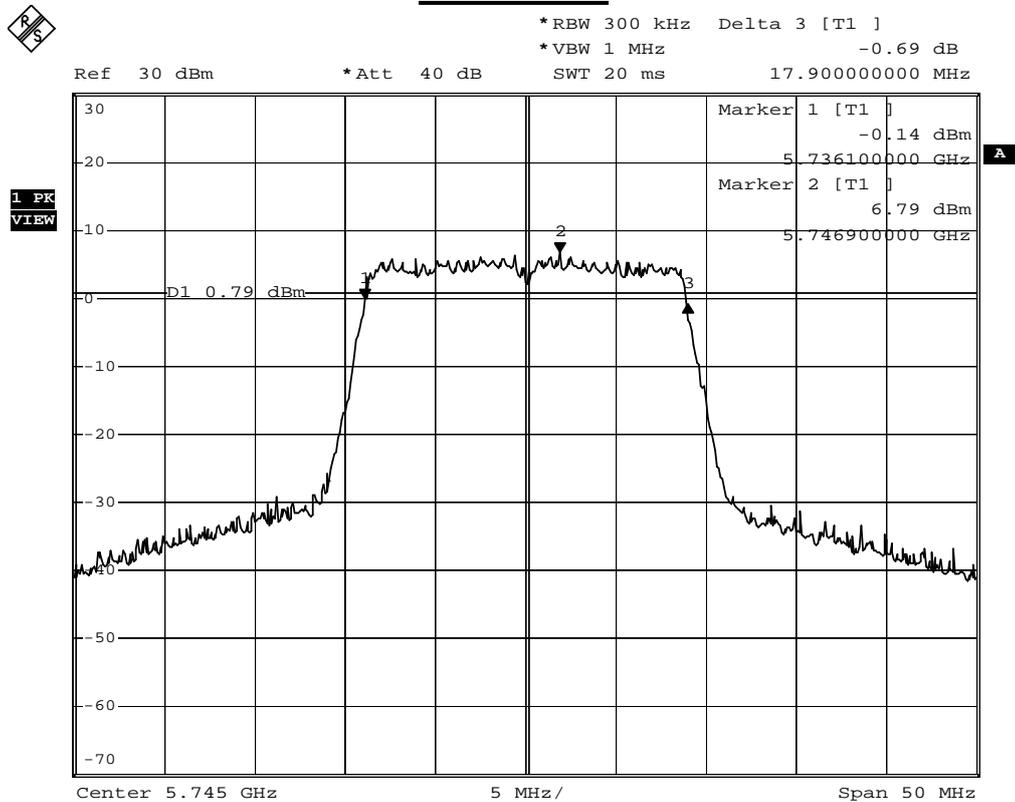


Comment: A:\2
 Date: 16.OCT.2012 10:25:47

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (20MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.90	≥ 0.5	Pass
157	5785	18.00	≥ 0.5	Pass
165	5825	17.90	≥ 0.5	Pass

Channel 149



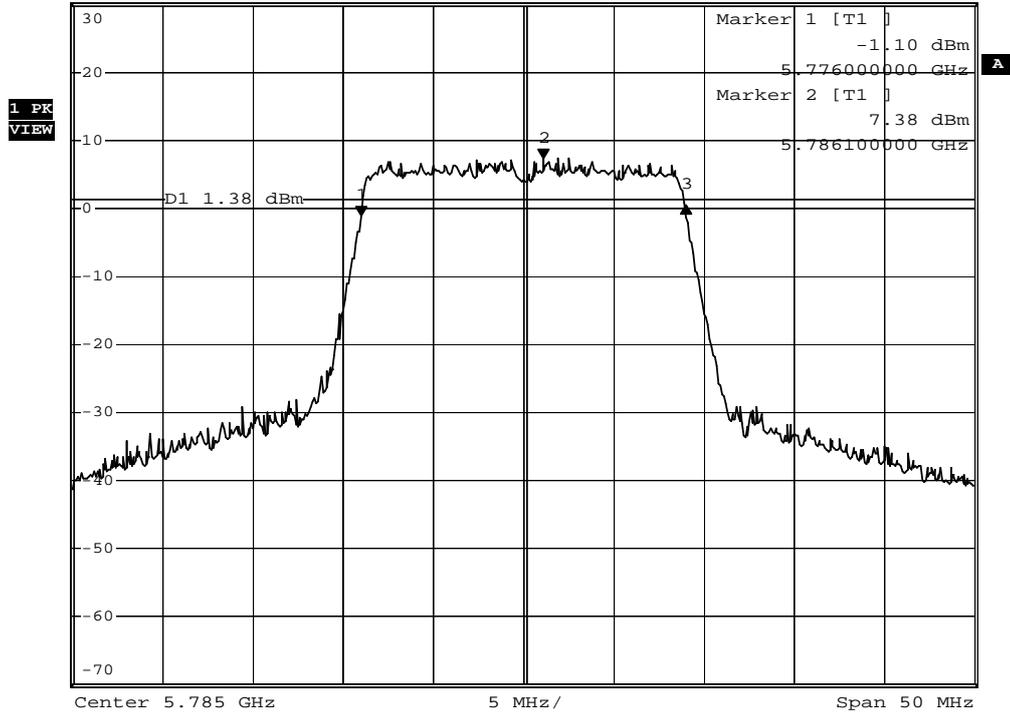
Comment: A:\2
 Date: 16.OCT.2012 11:09:15

Channel 157



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 1.54 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 18.000000000 MHz



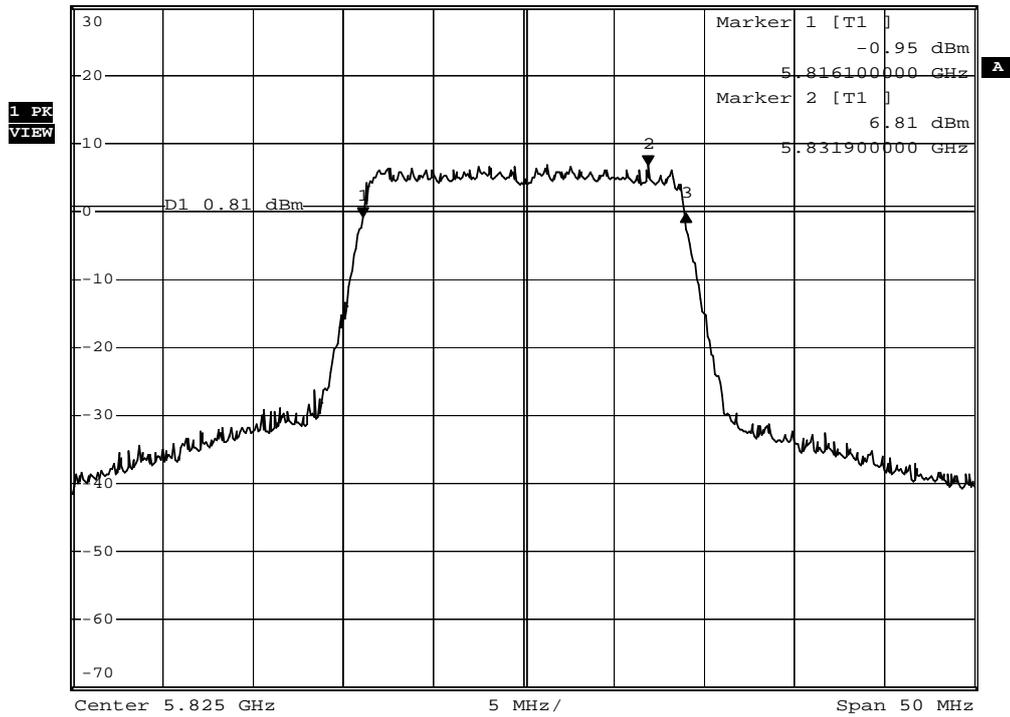
Comment: A:\2
 Date: 16.OCT.2012 10:44:38

Channel 165



*RBW 300 kHz Delta 3 [T1]
 *VBW 1 MHz 0.58 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 17.900000000 MHz

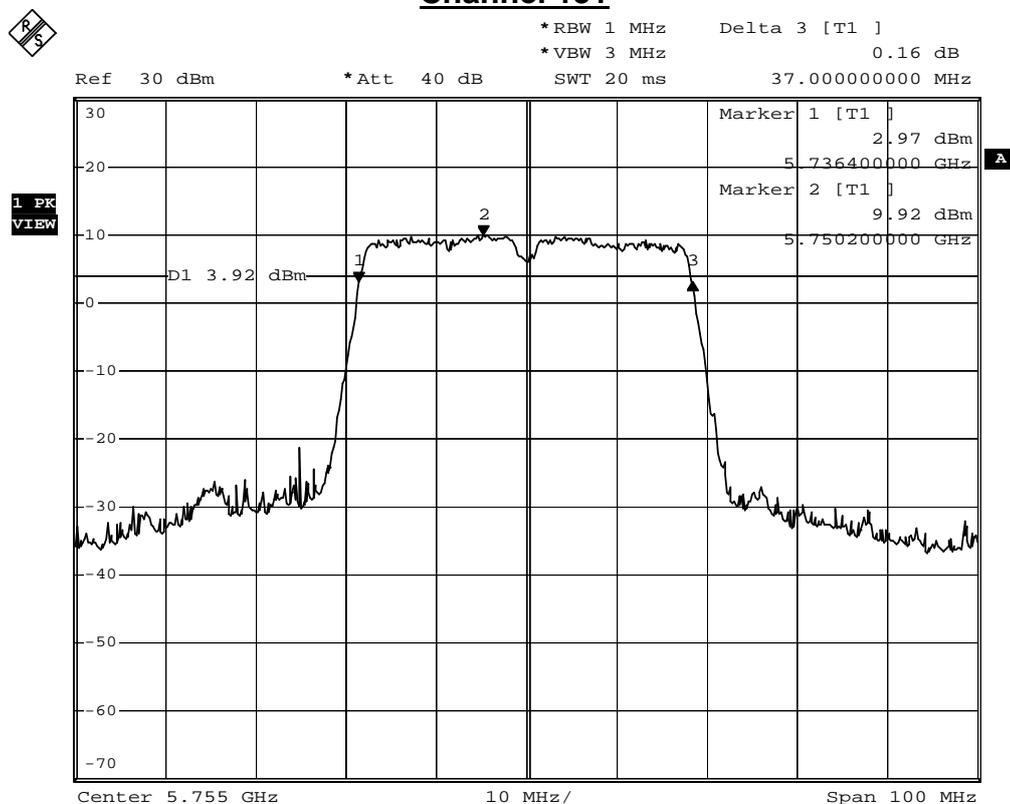


Comment: A:\2
 Date: 16.OCT.2012 10:36:33

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	37.00	≥ 0.5	Pass
159	5795	37.00	≥ 0.5	Pass

Channel 151



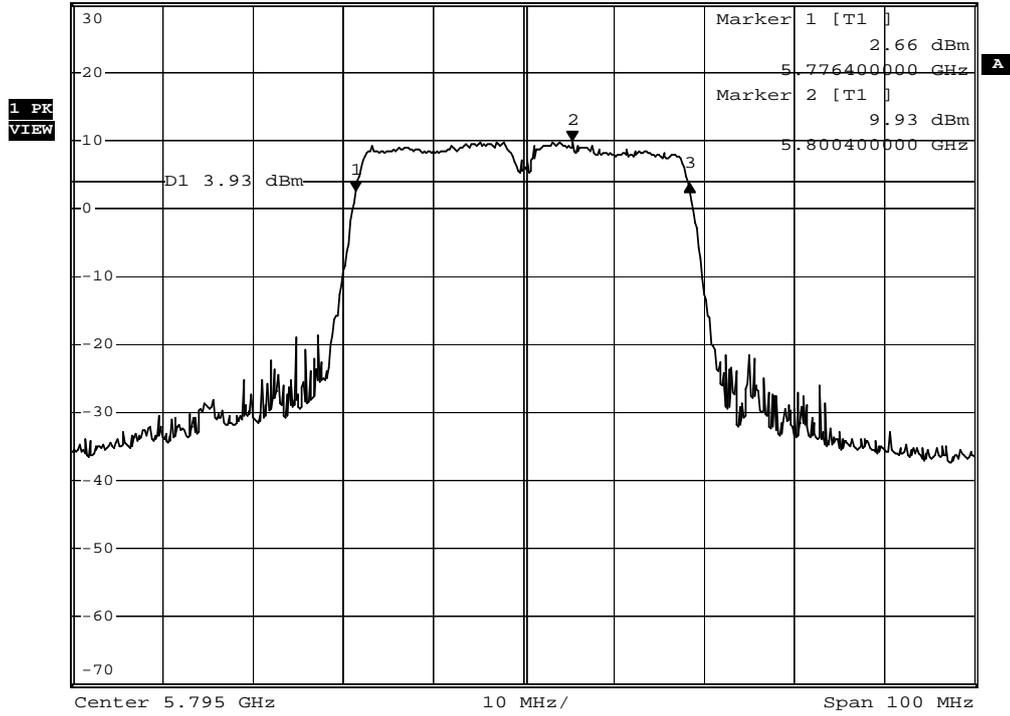
Comment: A:\2
Date: 16.OCT.2012 11:50:52

Channel 159



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz 0.85 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 37.000000000 MHz

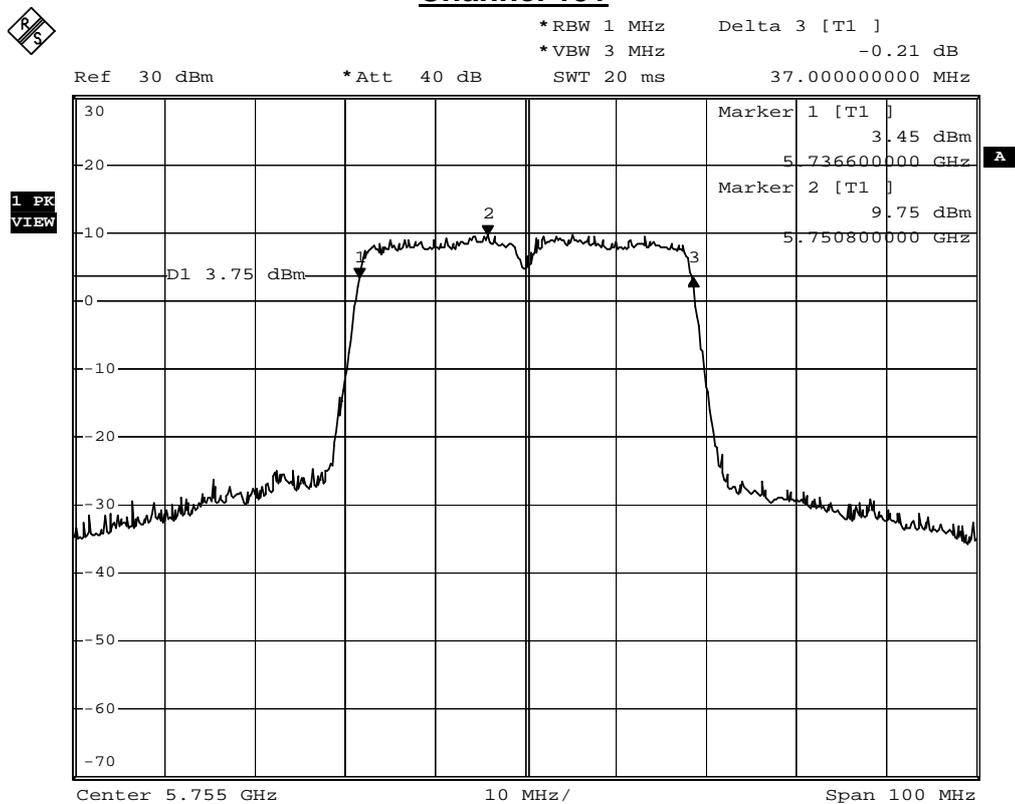


Comment: A:\2
 Date: 16.OCT.2012 12:02:23

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	37.00	≥ 0.5	Pass
159	5795	36.80	≥ 0.5	Pass

Channel 151



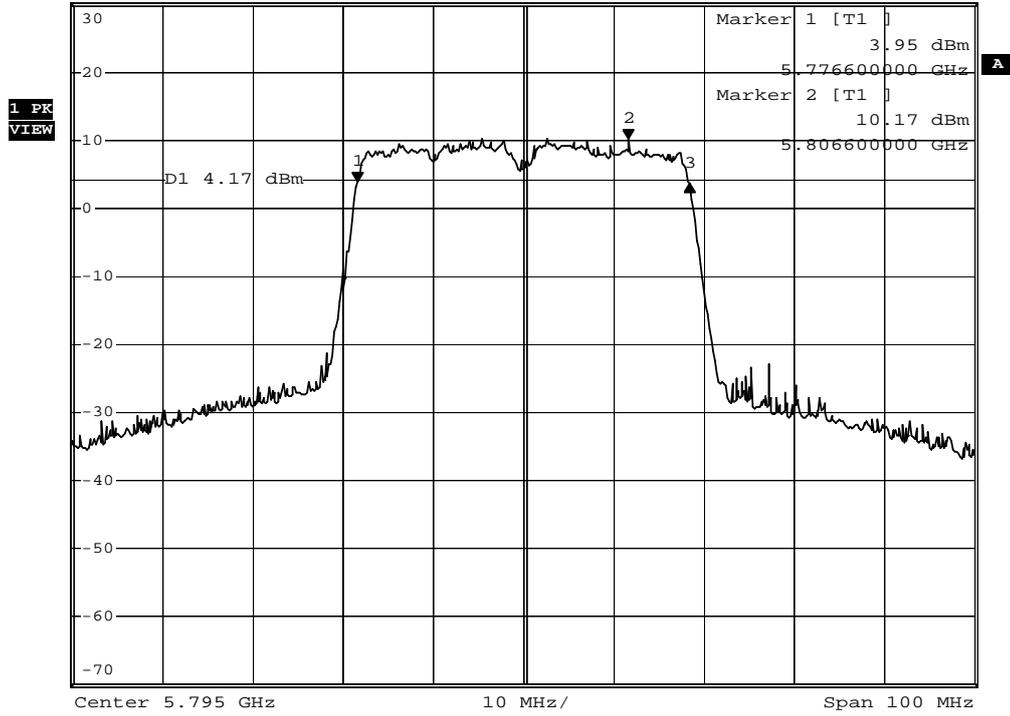
Comment: A:\2
 Date: 16.OCT.2012 11:48:33

Channel 159



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz -0.23 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 36.80000000 MHz

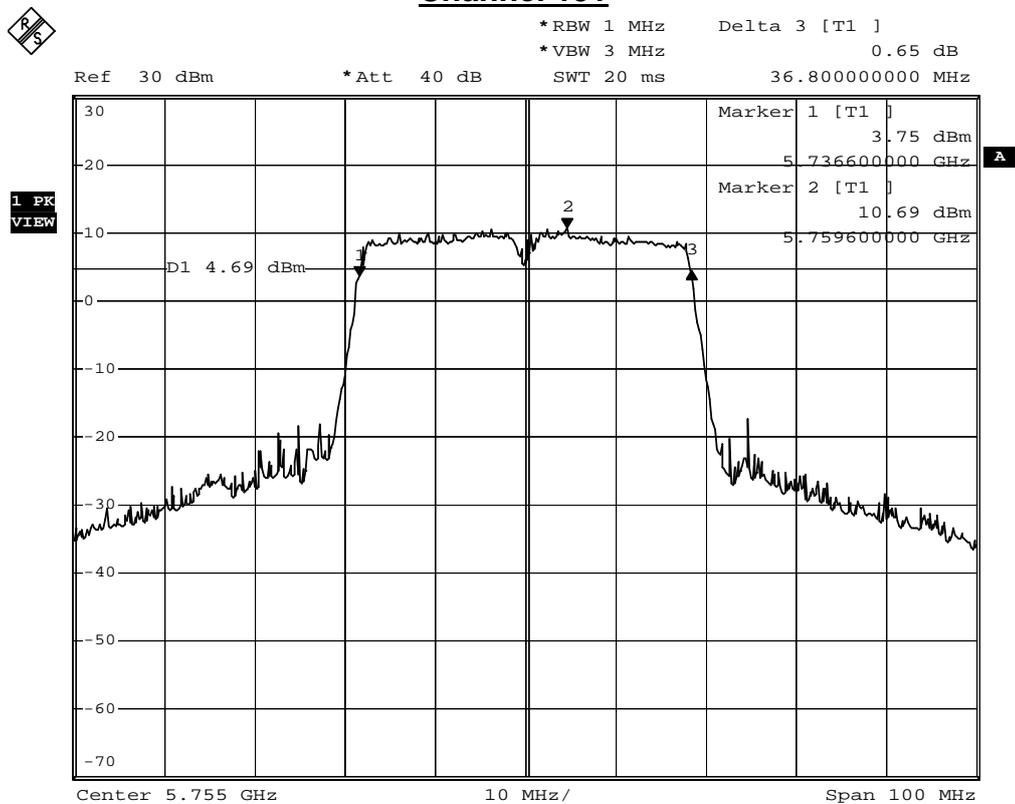


Comment: A:\2
 Date: 16.OCT.2012 12:00:43

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.80	≥ 0.5	Pass
159	5795	37.00	≥ 0.5	Pass

Channel 151



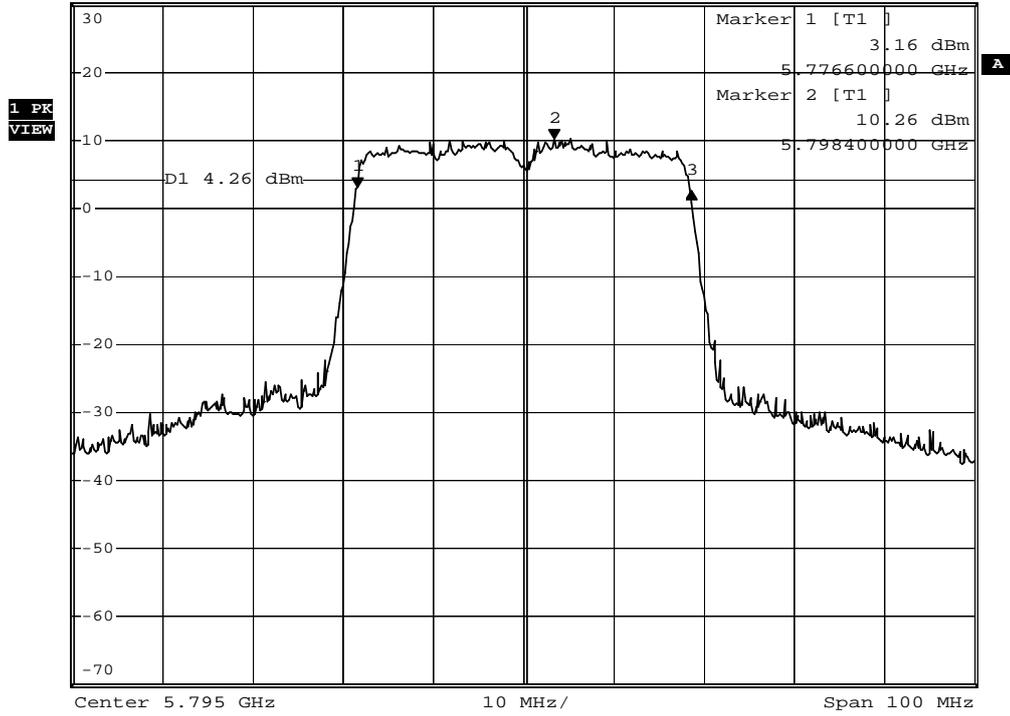
Comment: A:\2
Date: 16.OCT.2012 11:54:51

Channel 159



*RBW 1 MHz Delta 3 [T1]
 *VBW 3 MHz -0.61 dB

Ref 30 dBm *Att 40 dB SWT 20 ms 37.000000000 MHz

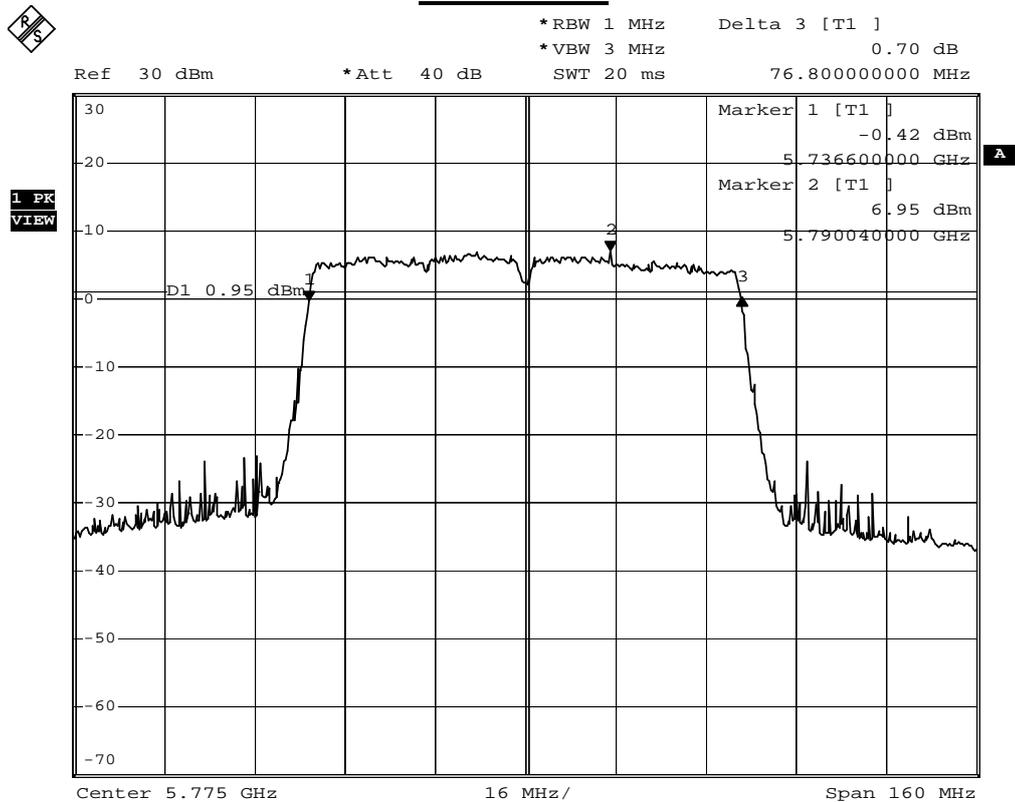


Comment: A:\2
 Date: 16.OCT.2012 11:58:28

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	76.80	≥ 0.5	Pass

Channel 155

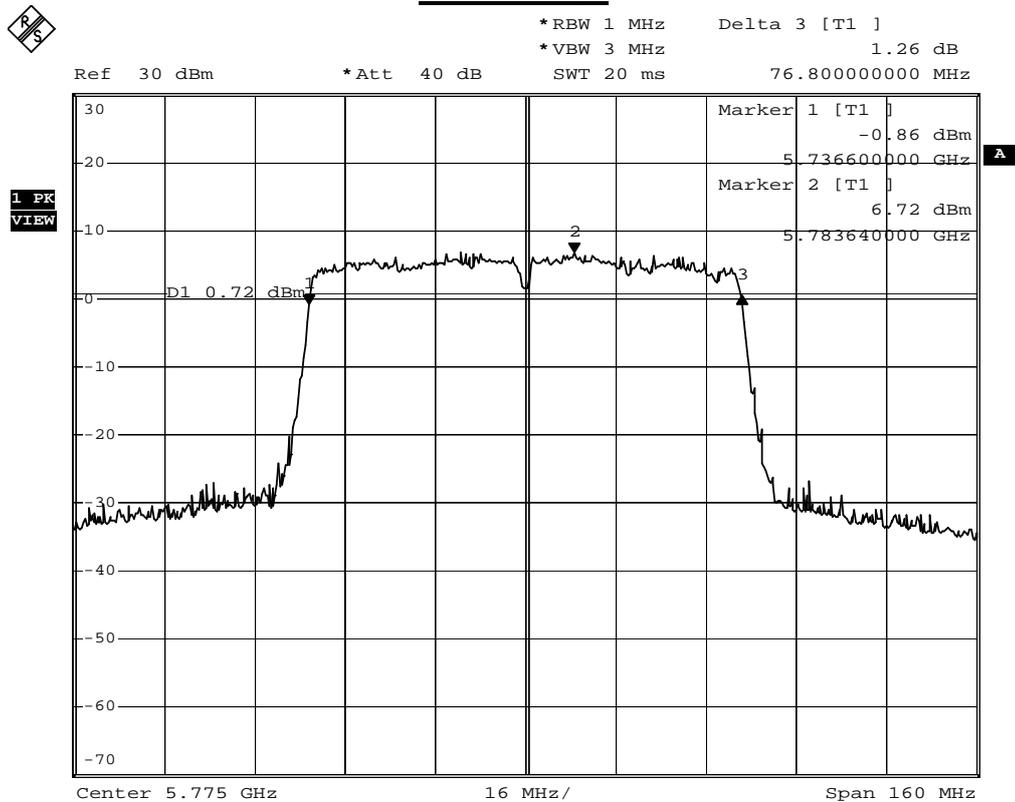


Comment: A:\2
 Date: 16.OCT.2012 13:20:43

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	76.80	≥ 0.5	Pass

Channel 155

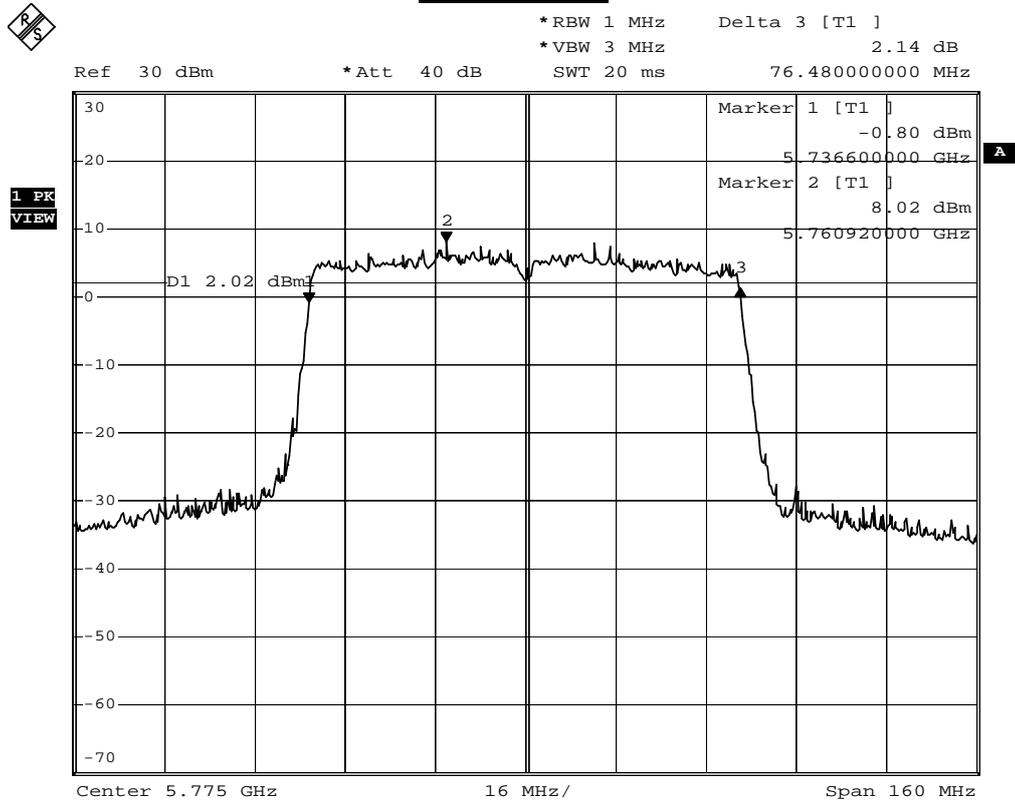


Comment: A:\2
 Date: 16.OCT.2012 13:24:58

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac (80MHz)(ANT 2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	76.48	≥ 0.5	Pass

Channel 155



Comment: A:\2
 Date: 16.OCT.2012 13:28:09

8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

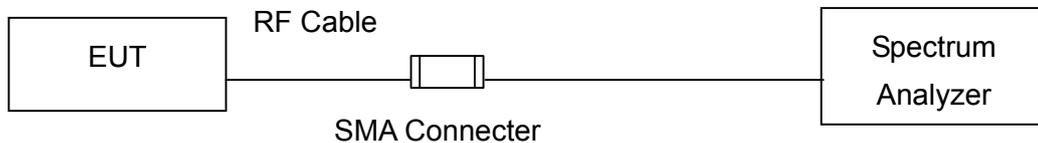
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 100 kHz, Set VBW= 300 kHz, Sweep time=Auto, Set detector=Peak detector.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log (3 \text{ kHz}/100 \text{ kHz} = -15.2 \text{ dB})$.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

8.6. Uncertainty

The measurement uncertainty is defined as $\pm 1.27\text{dB}$.

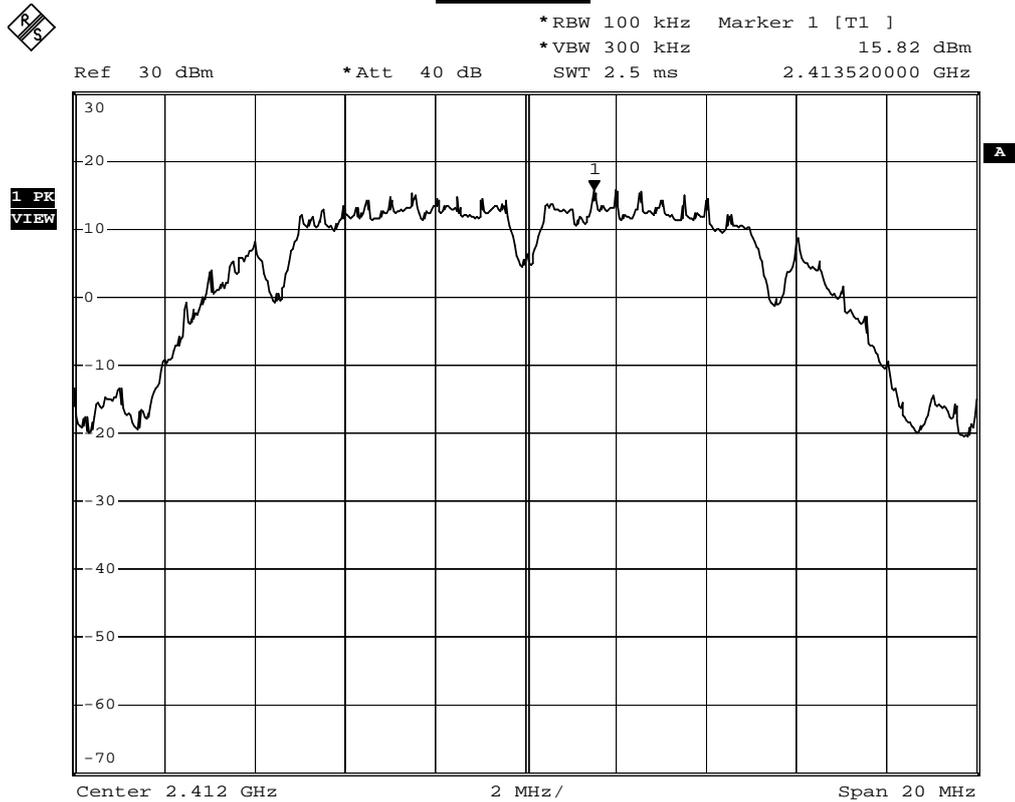
8.7. Test Result

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11b					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	15.82	0.62	≤ 8	Pass
6	2437	15.71	0.51	≤ 8	Pass
11	2462	15.33	0.13	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 1



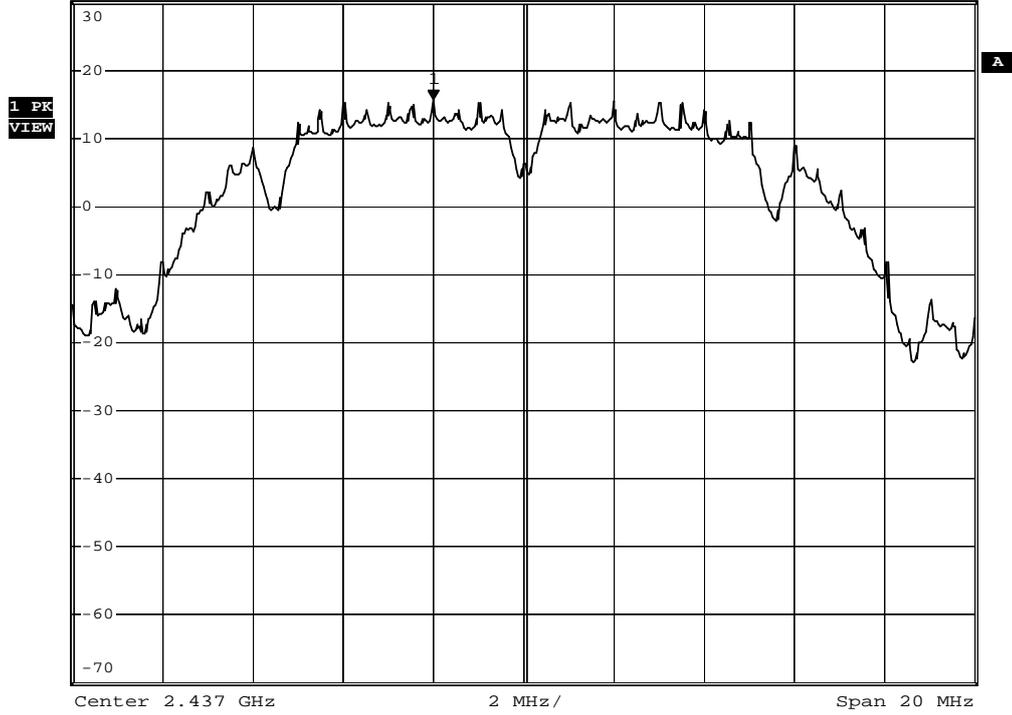
Comment: A:\2
 Date: 15.OCT.2012 17:19:43

Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 15.71 dBm
SWT 2.5 ms 2.435000000 GHz

Ref 30 dBm *Att 40 dB



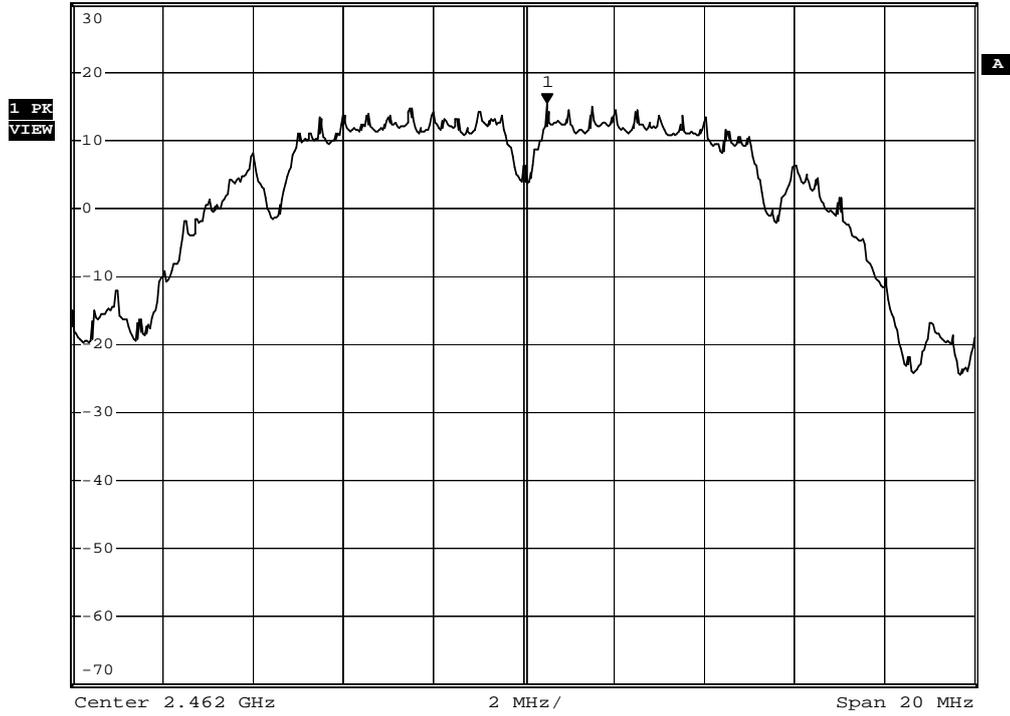
Comment: A:\2
Date: 15.OCT.2012 17:20:16

Channel 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 15.33 dBm
SWT 2.5 ms 2.462520000 GHz

Ref 30 dBm *Att 40 dB



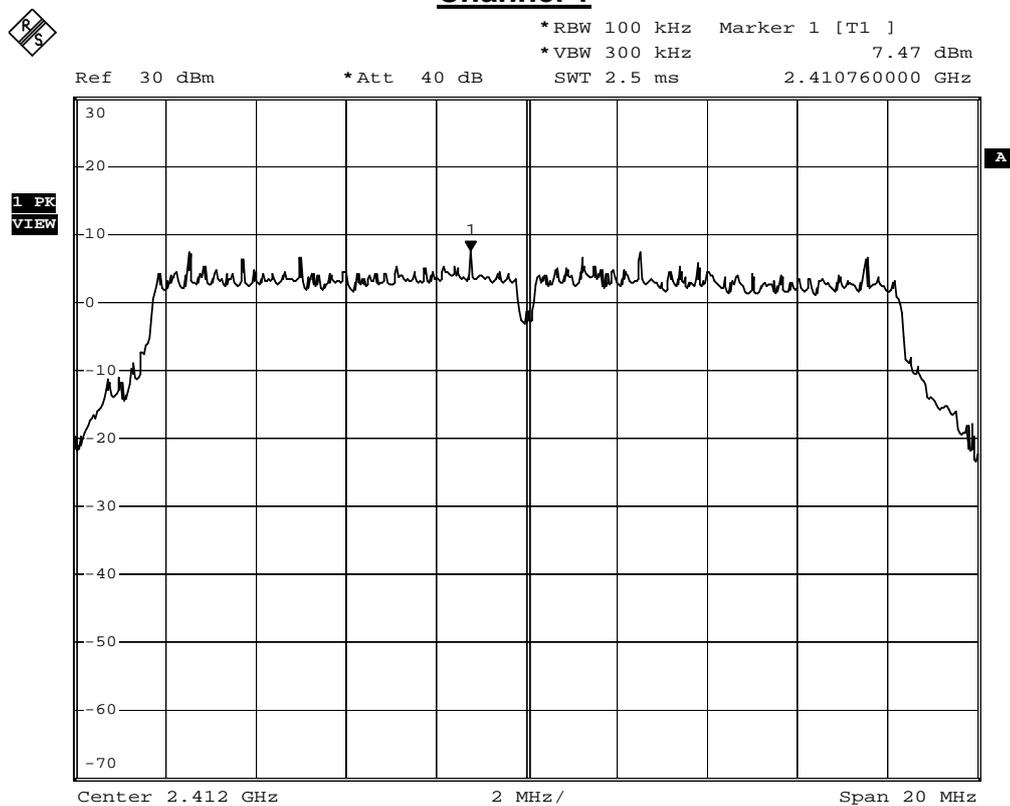
Comment: A:\2
Date: 15.OCT.2012 17:20:41

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11g					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	7.47	-7.73	≤ 8	Pass
6	2437	9.09	-6.11	≤ 8	Pass
11	2462	5.64	-9.56	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 1



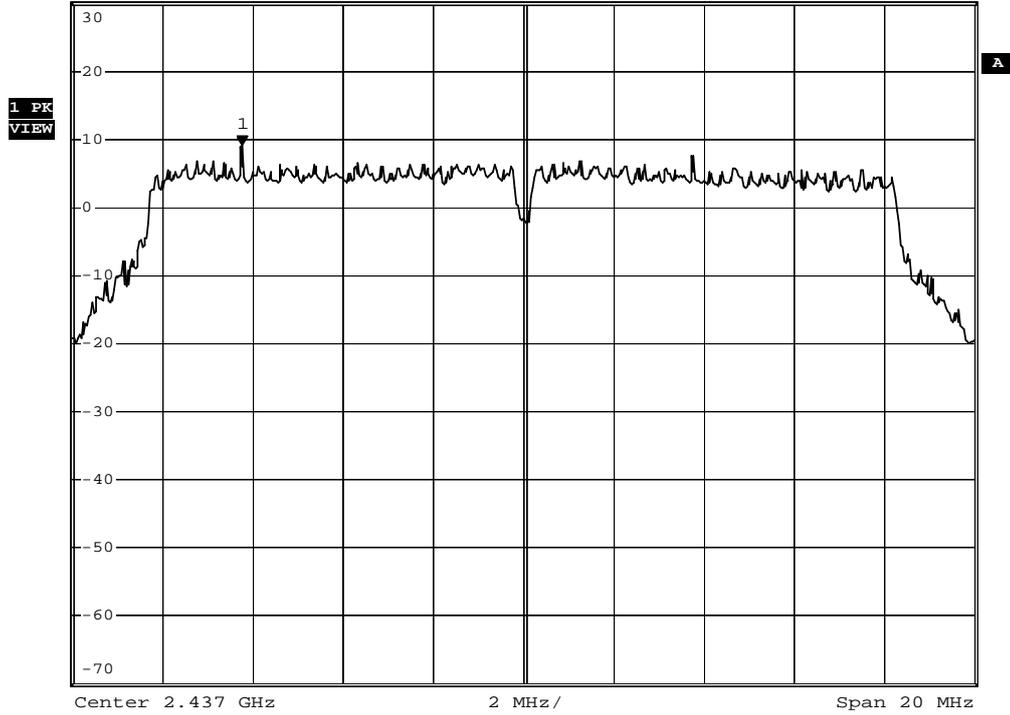
Comment: A:\2
 Date: 15.OCT.2012 17:17:28

Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 9.09 dBm

Ref 30 dBm *Att 40 dB SWT 2.5 ms 2.430760000 GHz



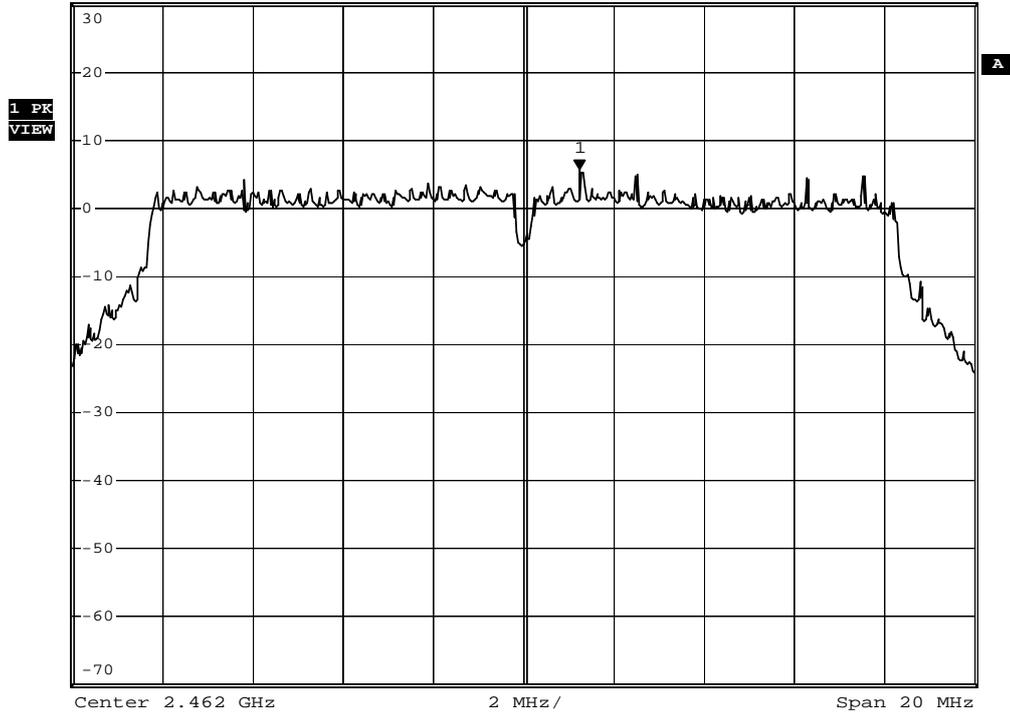
Comment: A:\2
Date: 15.OCT.2012 17:18:05

Channel 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 5.64 dBm
SWT 2.5 ms 2.463240000 GHz

Ref 30 dBm *Att 40 dB



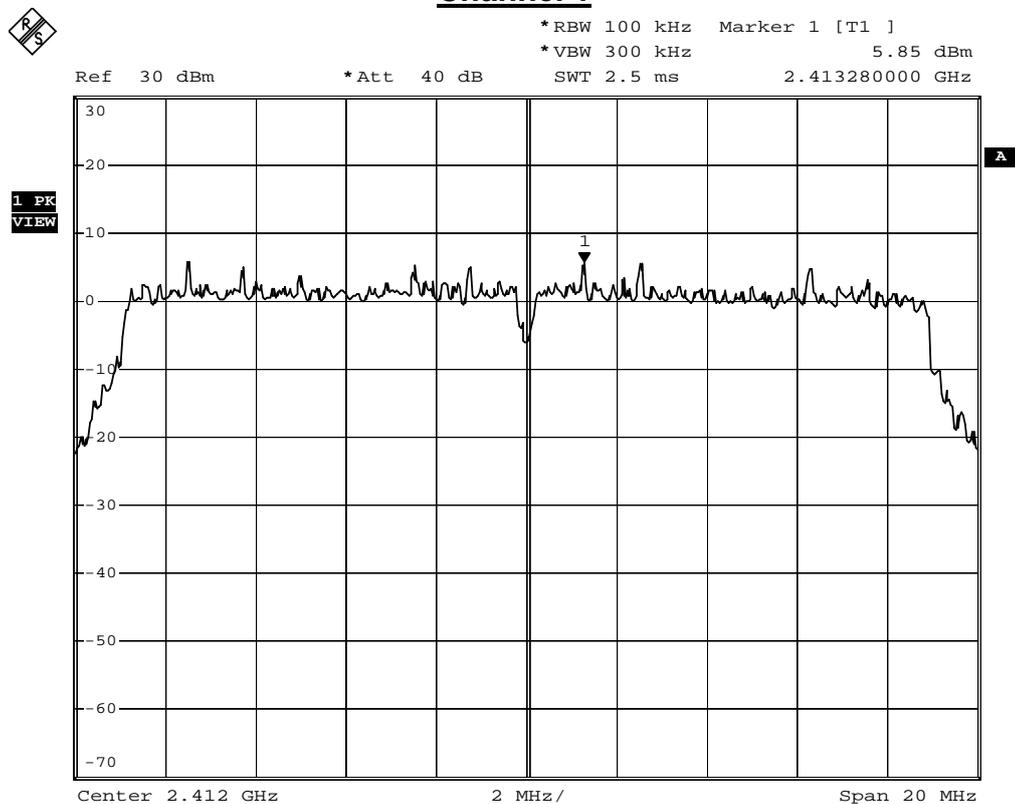
Comment: A:\2
Date: 15.OCT.2012 17:18:34

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	5.85	-9.35	≤ 8	Pass
6	2437	5.16	-10.04	≤ 8	Pass
11	2462	5.74	-9.46	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 1



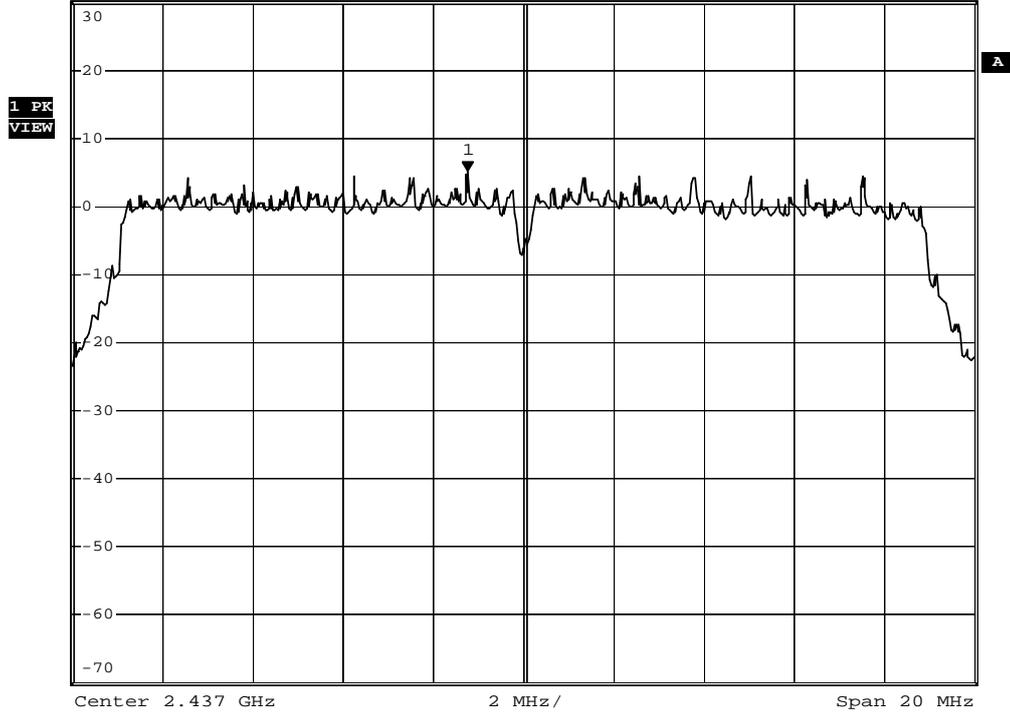
Comment: A:\2
 Date: 15.OCT.2012 17:08:39

Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 5.16 dBm
SWT 2.5 ms 2.435760000 GHz

Ref 30 dBm *Att 40 dB



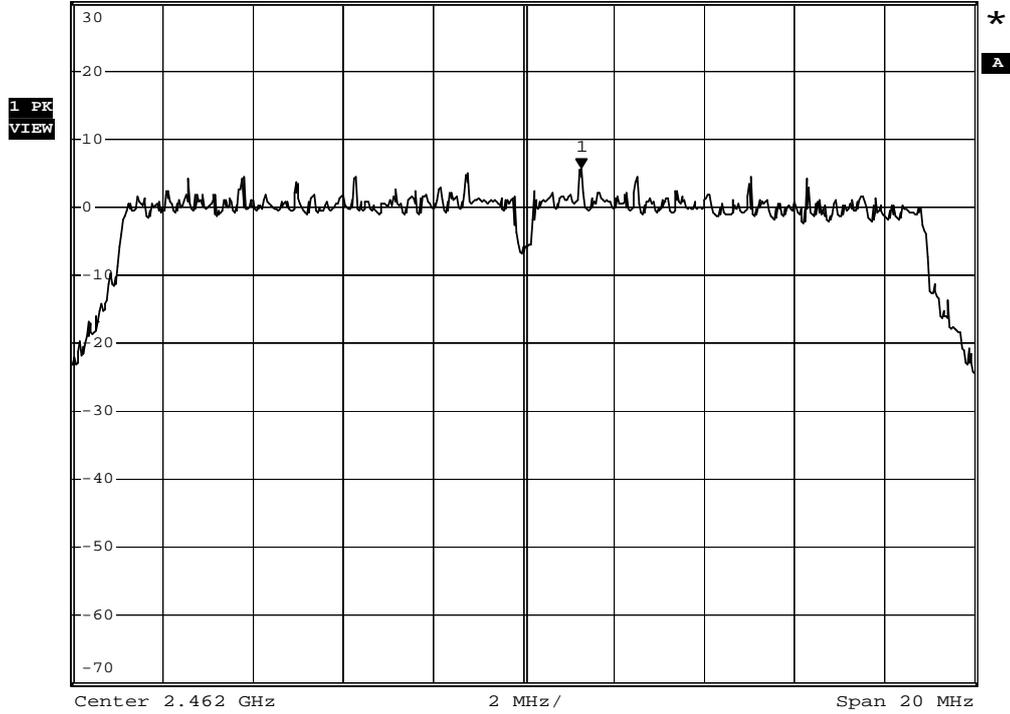
Comment: A:\2
Date: 15.OCT.2012 17:13:40

Channel 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 5.74 dBm
SWT 2.5 ms 2.46328000 GHz

Ref 30 dBm *Att 40 dB



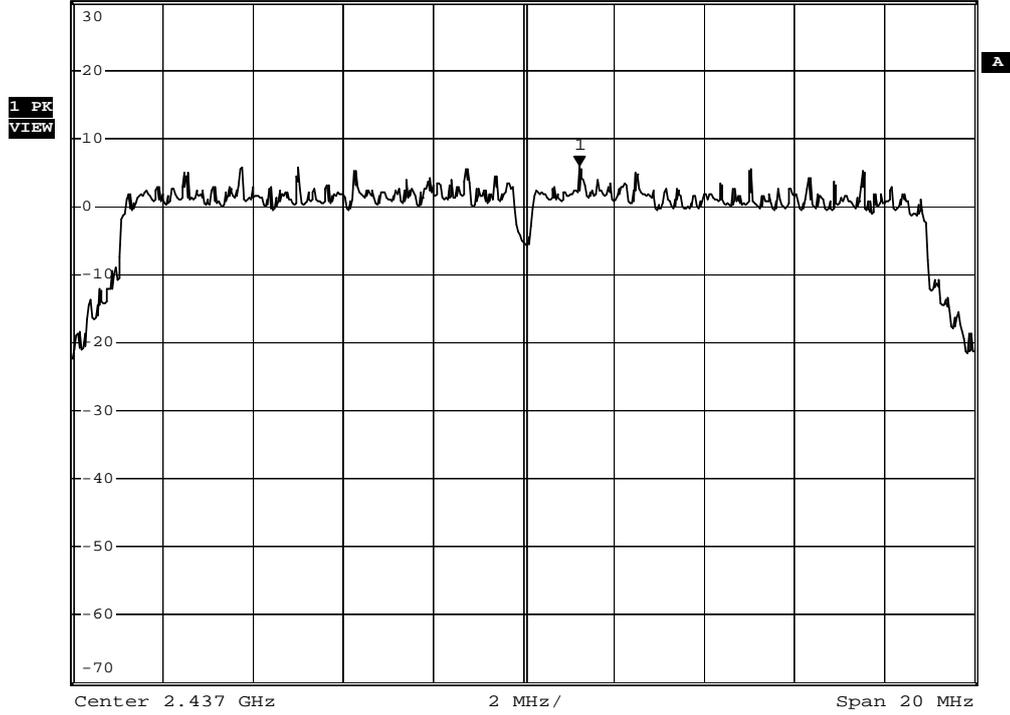
Comment: A:\2
Date: 15.OCT.2012 17:14:56

Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 6.03 dBm
SWT 2.5 ms 2.438240000 GHz

Ref 30 dBm *Att 40 dB



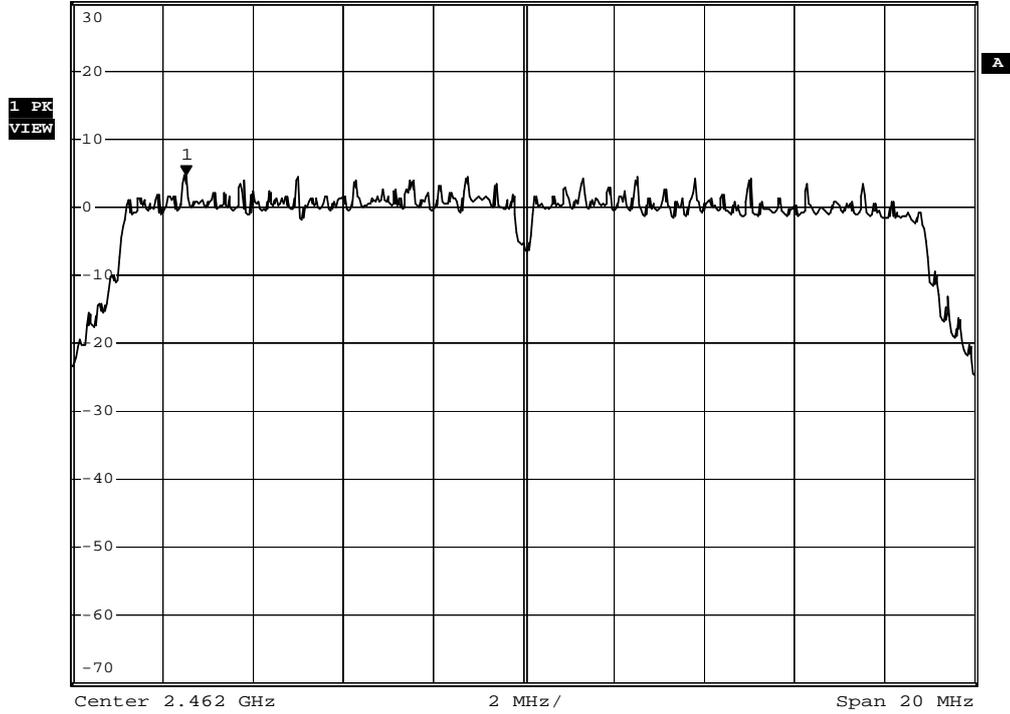
Comment: A:\2
Date: 15.OCT.2012 17:12:55

Channel 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 4.63 dBm
SWT 2.5 ms 2.454520000 GHz

Ref 30 dBm *Att 40 dB



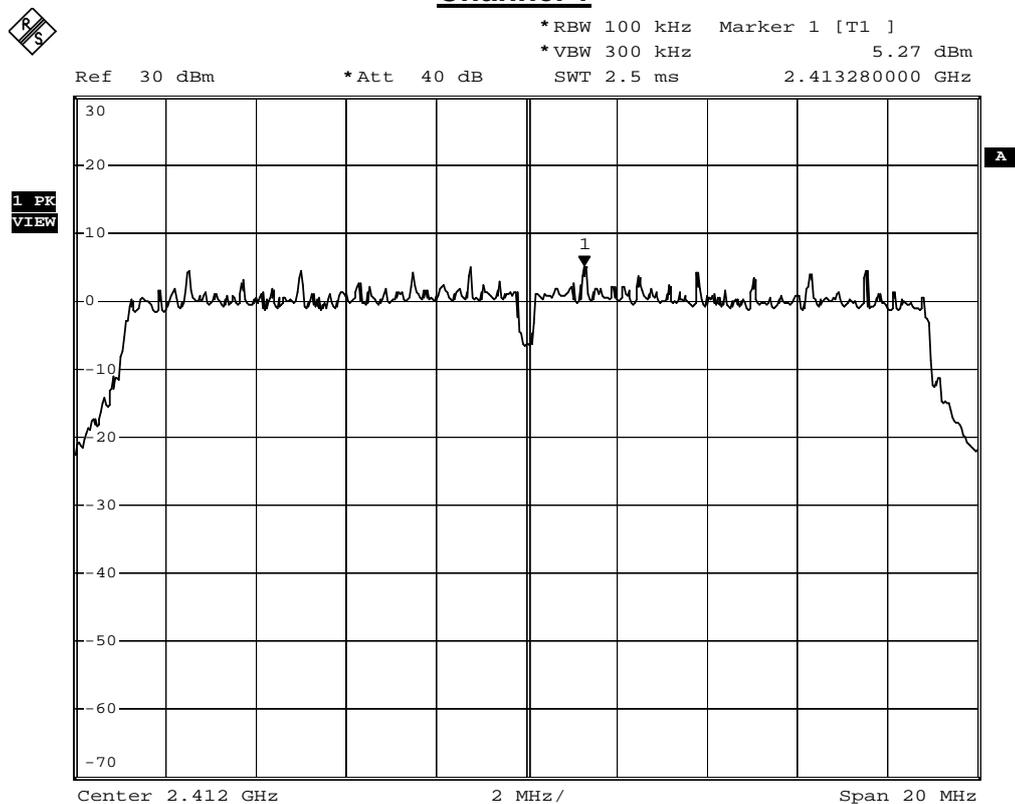
Comment: A:\2
Date: 15.OCT.2012 17:15:41

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	5.27	-9.93	≤ 8	Pass
6	2437	4.35	-10.85	≤ 8	Pass
11	2462	5.26	-9.94	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 1



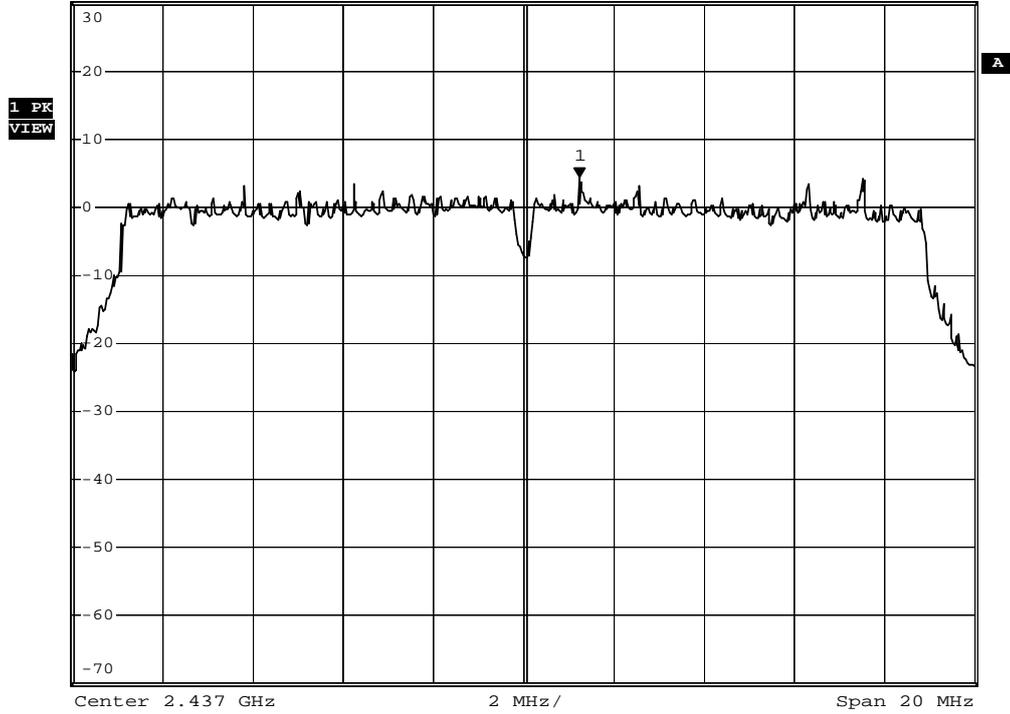
Comment: A:\2
 Date: 15.OCT.2012 17:10:16

Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 4.35 dBm
SWT 2.5 ms 2.438240000 GHz

Ref 30 dBm *Att 40 dB



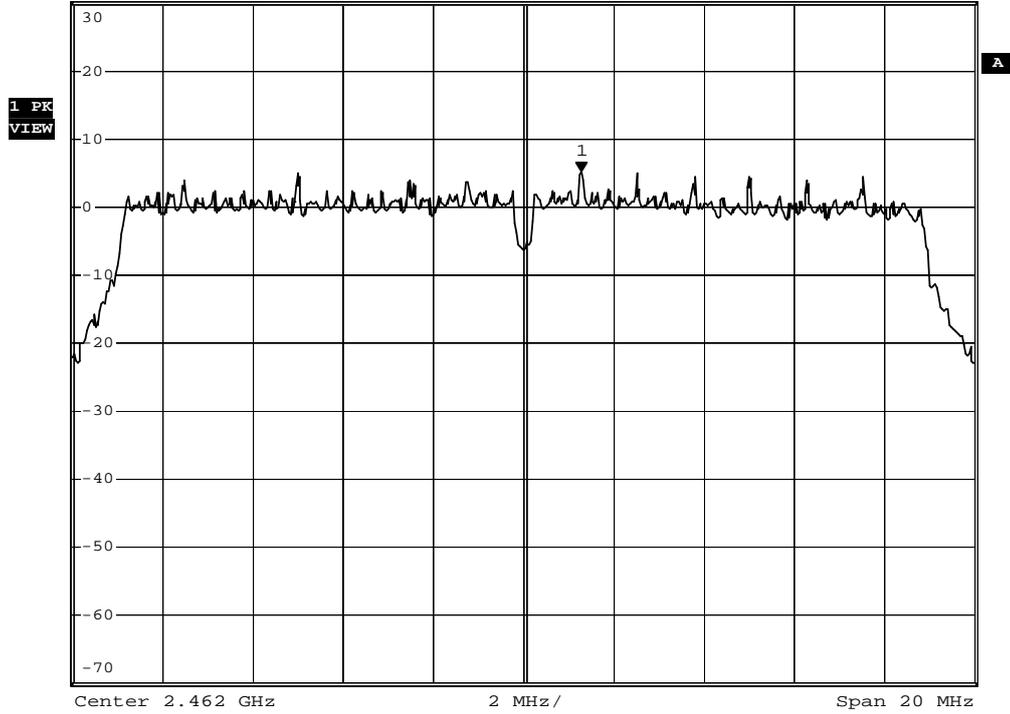
Comment: A:\2
Date: 15.OCT.2012 17:10:56

Channel 11



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 5.26 dBm
SWT 2.5 ms 2.46328000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
Date: 15.OCT.2012 17:16:21

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

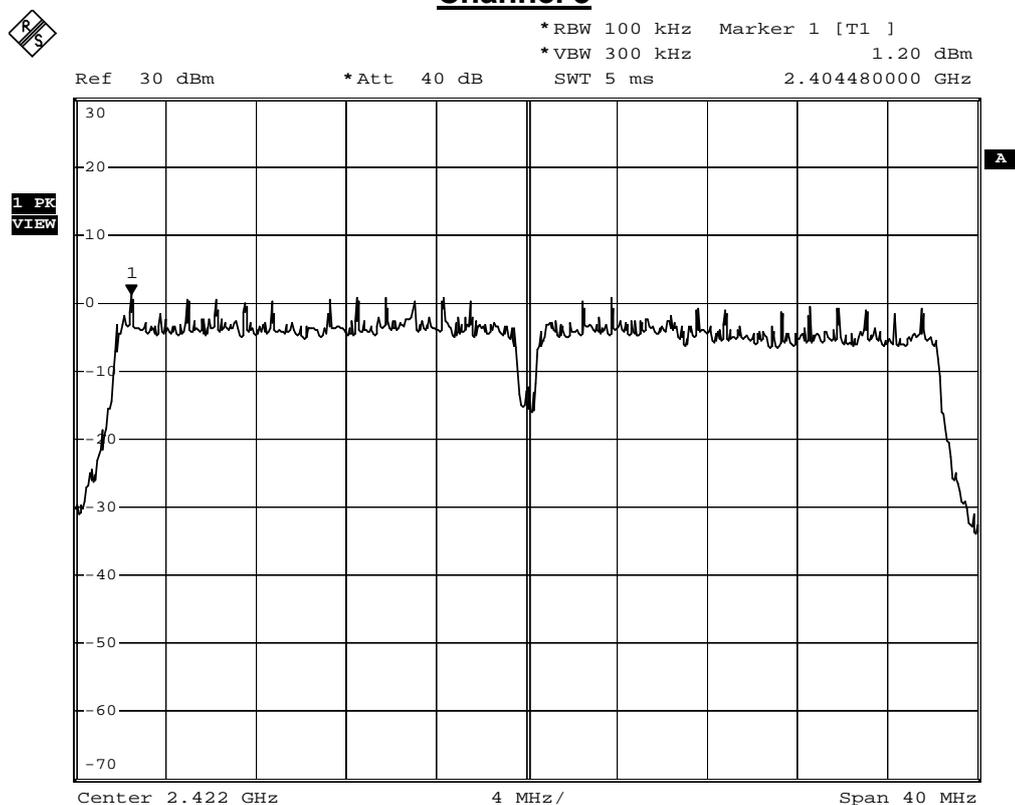
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-4.58	≤ 8	Pass
6	2437	-5.19	≤ 8	Pass
11	2462	-5.20	≤ 8	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	1.20	-14.00	≤ 8	Pass
6	2437	1.20	-14.00	≤ 8	Pass
9	2452	1.35	-13.85	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 3



Comment: A:\2
 Date: 15.OCT.2012 16:04:36

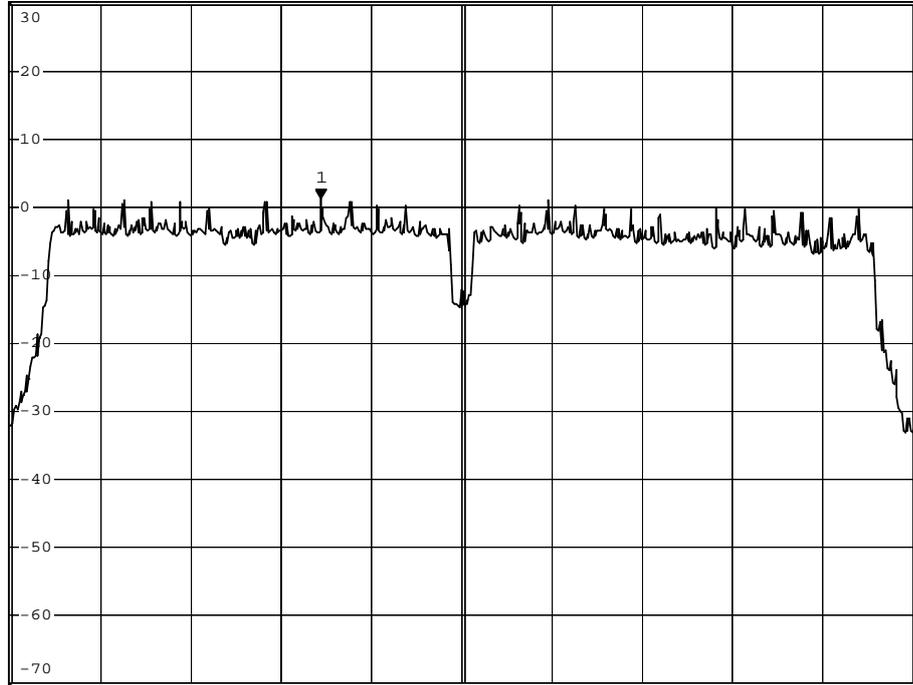
Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 1.20 dBm
SWT 5 ms 2.430760000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 2.437 GHz 4 MHz/ Span 40 MHz

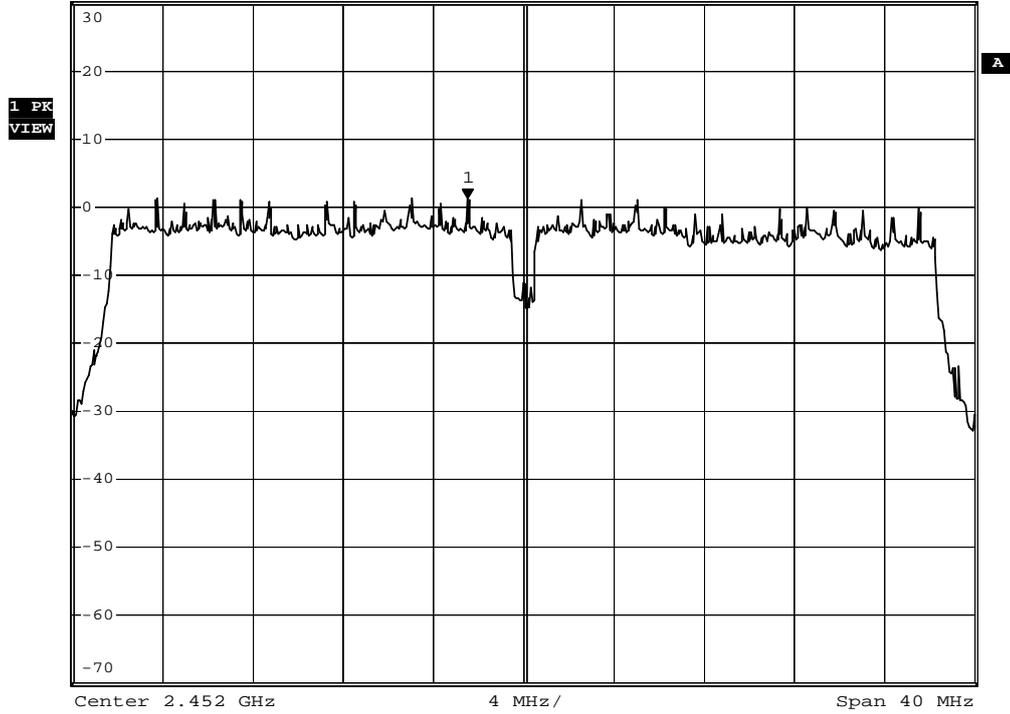
Comment: A:\2
Date: 15.OCT.2012 16:01:13

Channel 9



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 1.35 dBm
SWT 5 ms 2.449520000 GHz

Ref 30 dBm *Att 40 dB



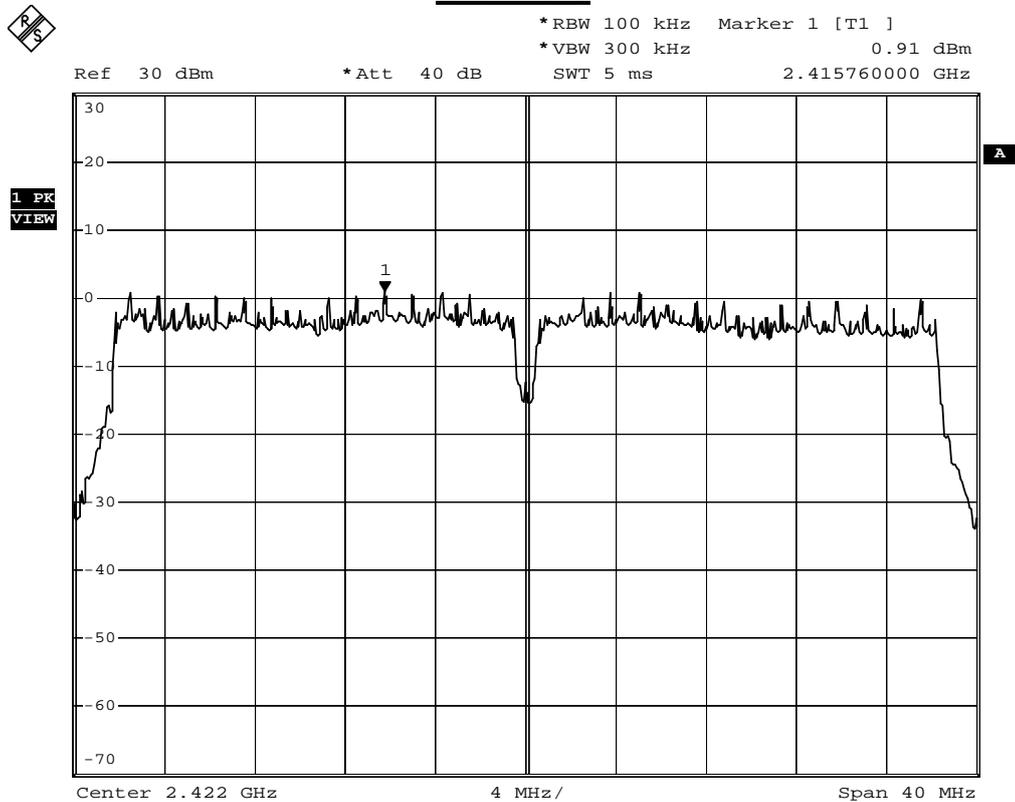
Comment: A:\2
Date: 15.OCT.2012 16:00:22

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	0.91	-14.29	≤ 8	Pass
6	2437	1.20	-14.00	≤ 8	Pass
9	2452	1.68	-13.52	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 3



Comment: A:\2
 Date: 15.OCT.2012 16:03:58

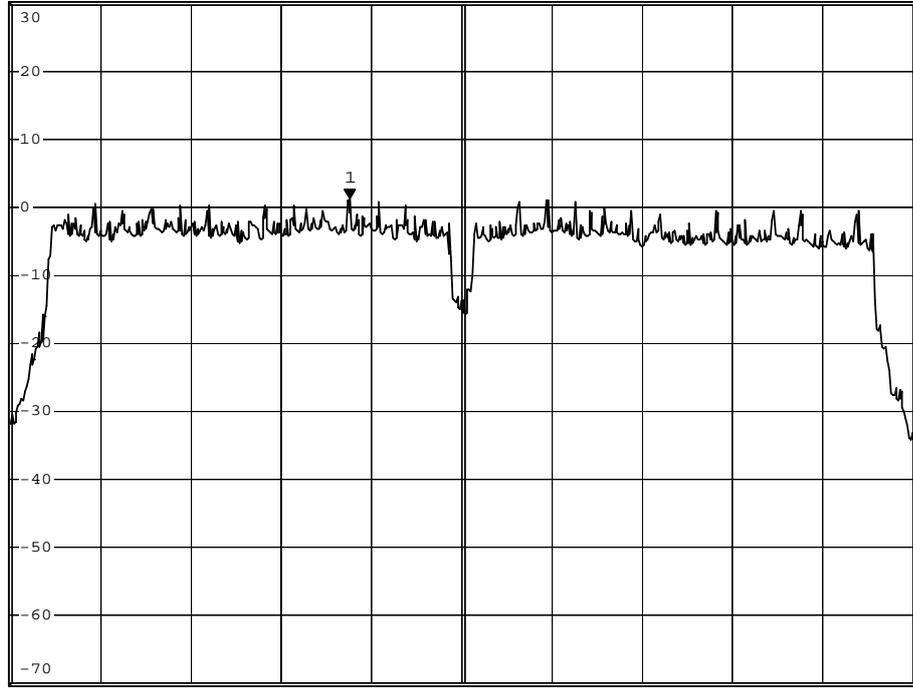
Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 1.20 dBm
SWT 5 ms 2.432040000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



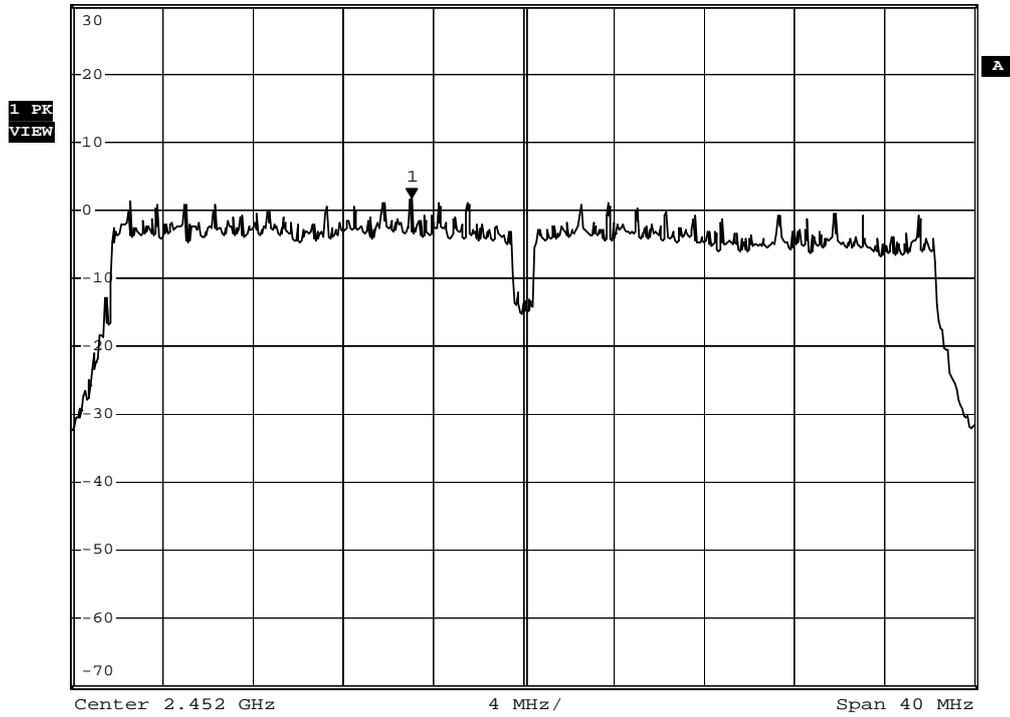
Center 2.437 GHz 4 MHz/ Span 40 MHz

Comment: A:\2
Date: 15.OCT.2012 16:01:51

Channel 9



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 1.68 dBm
Ref 30 dBm *Att 40 dB SWT 5 ms 2.447040000 GHz



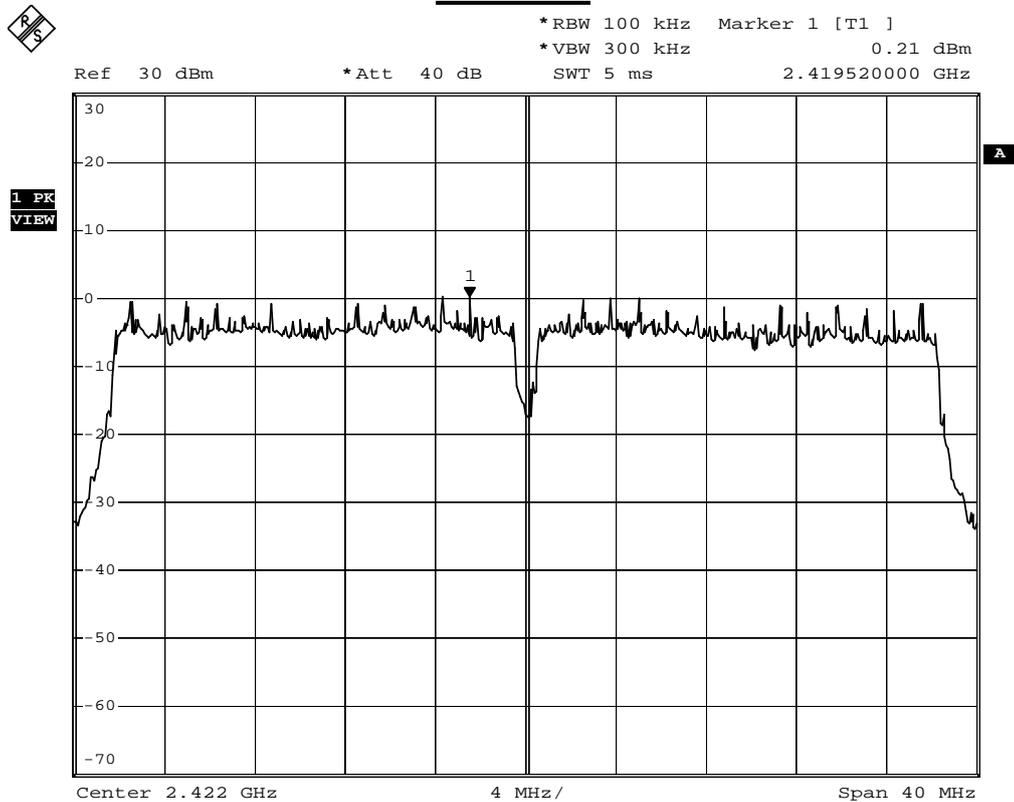
Comment: A:\2
Date: 15.OCT.2012 15:59:32

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/15	Test Site	SR7

IEEE 802.11n_40MHz (ANT 2)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	0.21	-14.99	≤ 8	Pass
6	2437	0.99	-14.21	≤ 8	Pass
9	2452	2.71	-12.49	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 3



Comment: A:\2
 Date: 15.OCT.2012 16:03:14

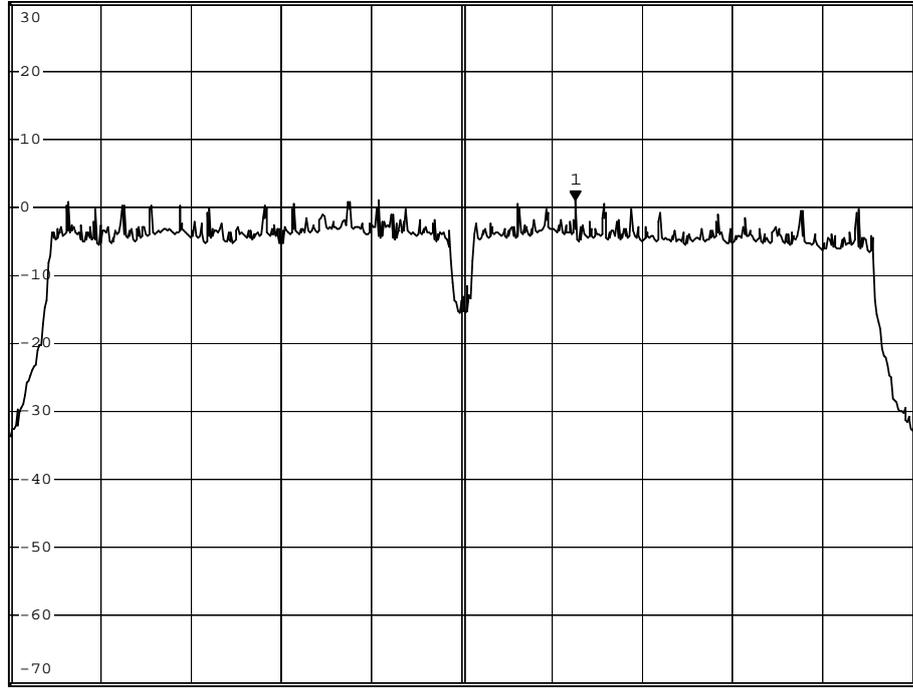
Channel 6



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 0.99 dBm
SWT 5 ms 2.442040000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 2.437 GHz 4 MHz/ Span 40 MHz

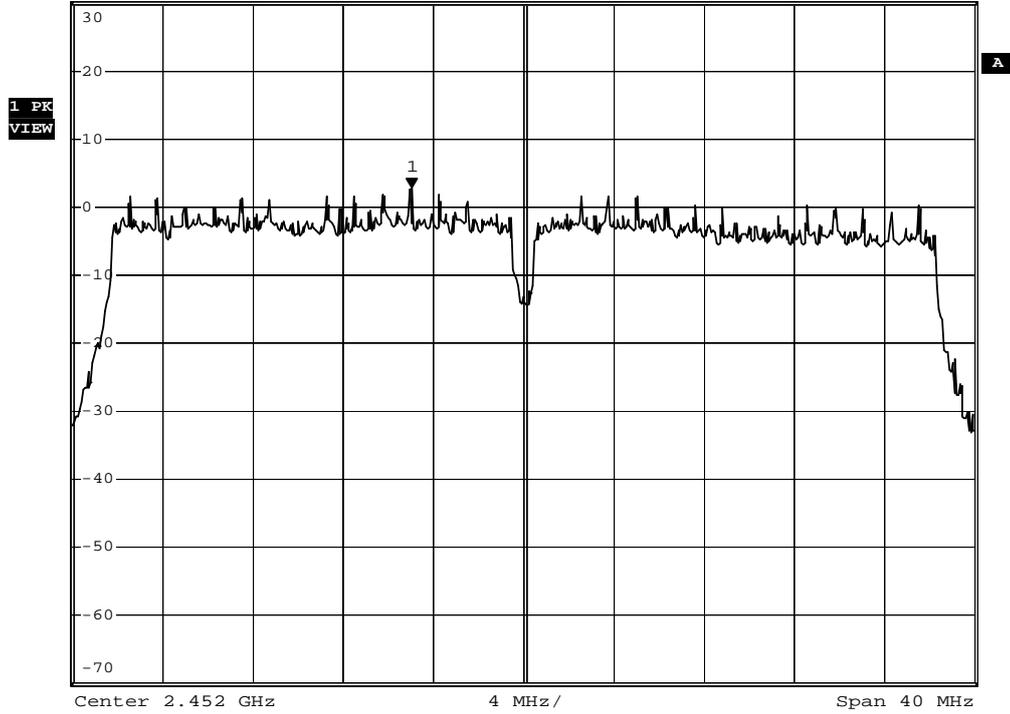
Comment: A:\2
Date: 15.OCT.2012 16:02:32

Channel 9



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 2.71 dBm
SWT 5 ms 2.447040000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
Date: 15.OCT.2012 15:58:15

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

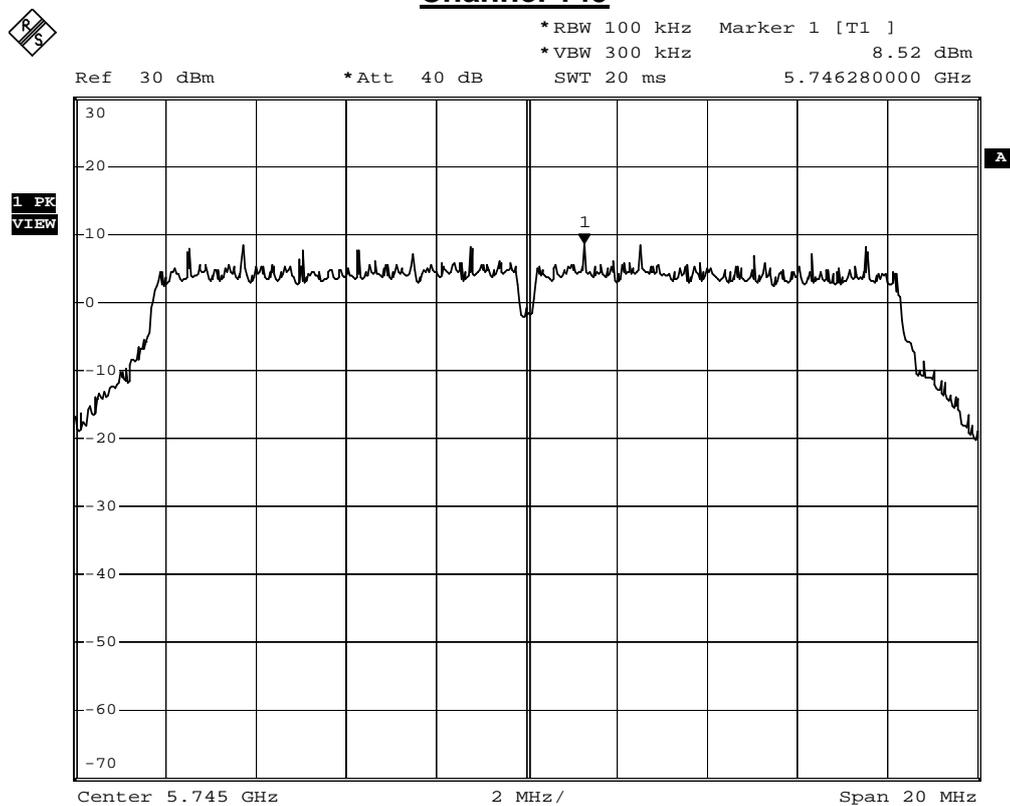
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	-9.64	≤ 8	Pass
6	2437	-9.30	≤ 8	Pass
9	2452	-8.48	≤ 8	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11a					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	8.52	-6.68	≤ 8	Pass
157	5785	8.90	-6.30	≤ 8	Pass
165	5825	8.81	-6.39	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 149



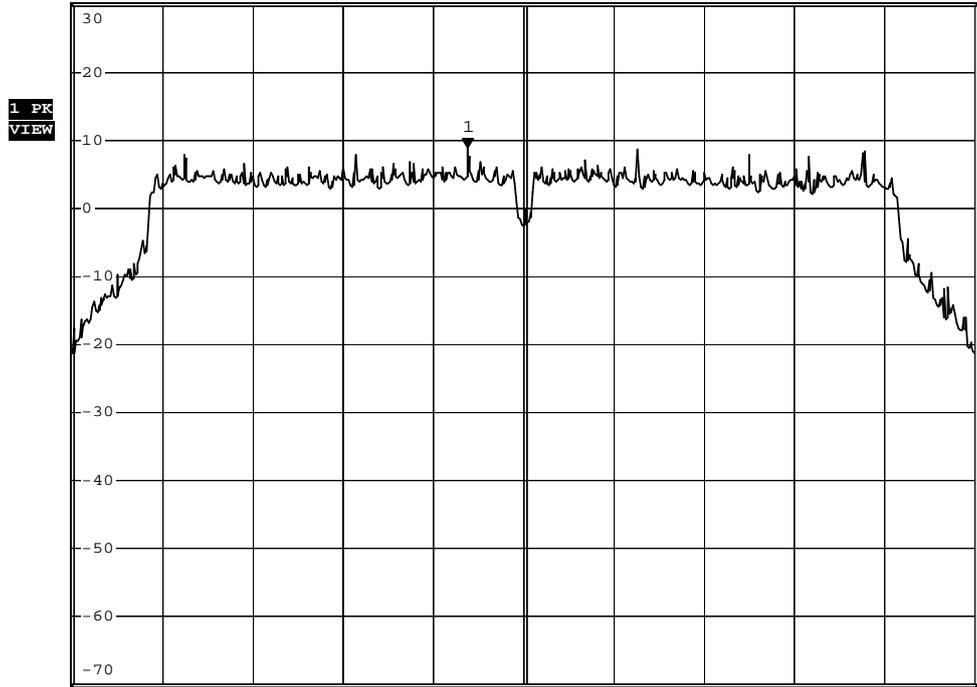
Comment: A:\2
 Date: 16.OCT.2012 13:56:17

Channel 157



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 8.90 dBm
SWT 20 ms 5.783760000 GHz

Ref 30 dBm *Att 40 dB



Center 5.785 GHz 2 MHz/ Span 20 MHz

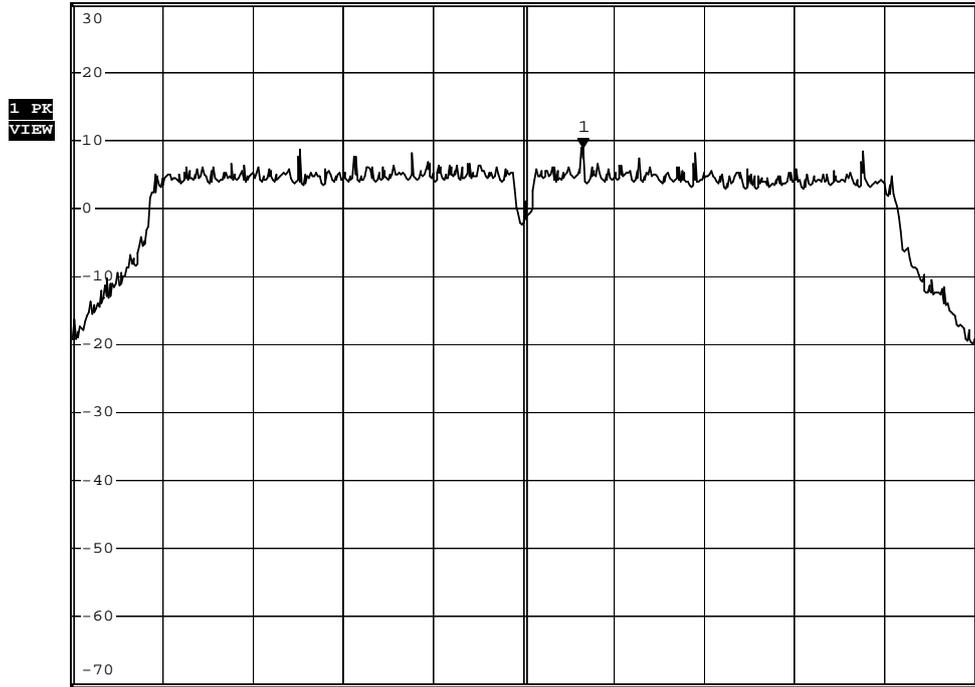
Comment: A:\2
Date: 16.OCT.2012 13:55:50

Channel 165



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 8.81 dBm
SWT 20 ms 5.826320000 GHz

Ref 30 dBm *Att 40 dB



Center 5.825 GHz 2 MHz/ Span 20 MHz

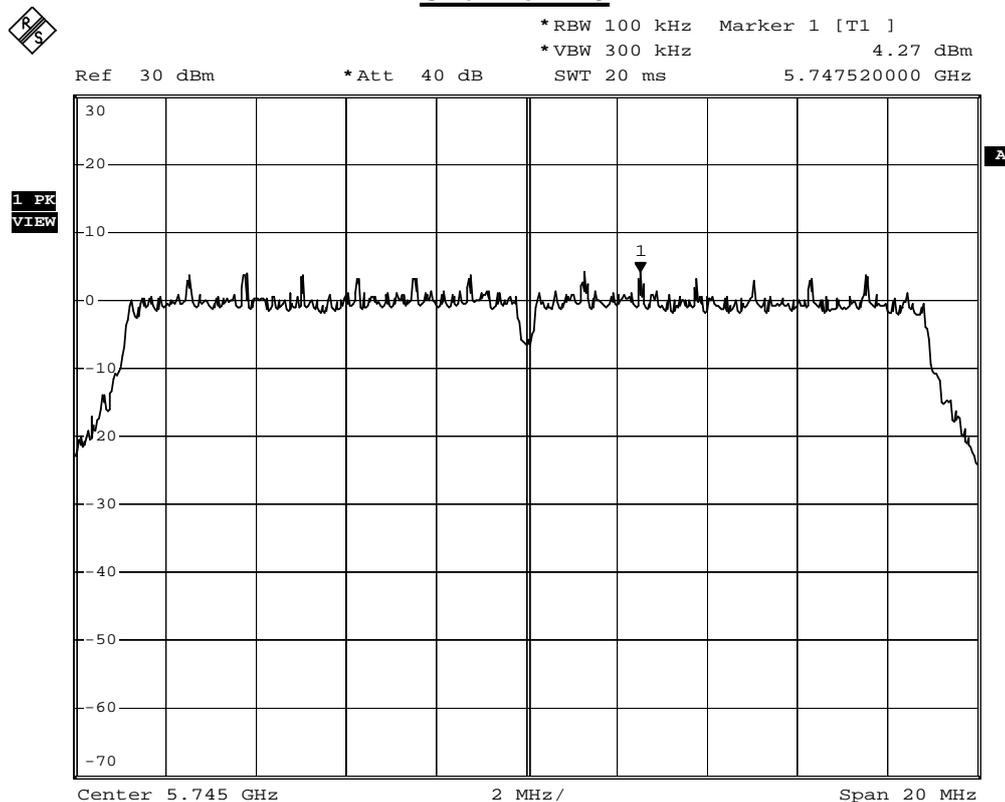
Comment: A:\2
Date: 16.OCT.2012 13:55:15

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n_20MHz_(ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	4.27	-10.93	≤ 8	Pass
157	5785	4.65	-10.55	≤ 8	Pass
165	5825	4.58	-10.62	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 149



Comment: A:\2
 Date: 16.OCT.2012 13:50:34

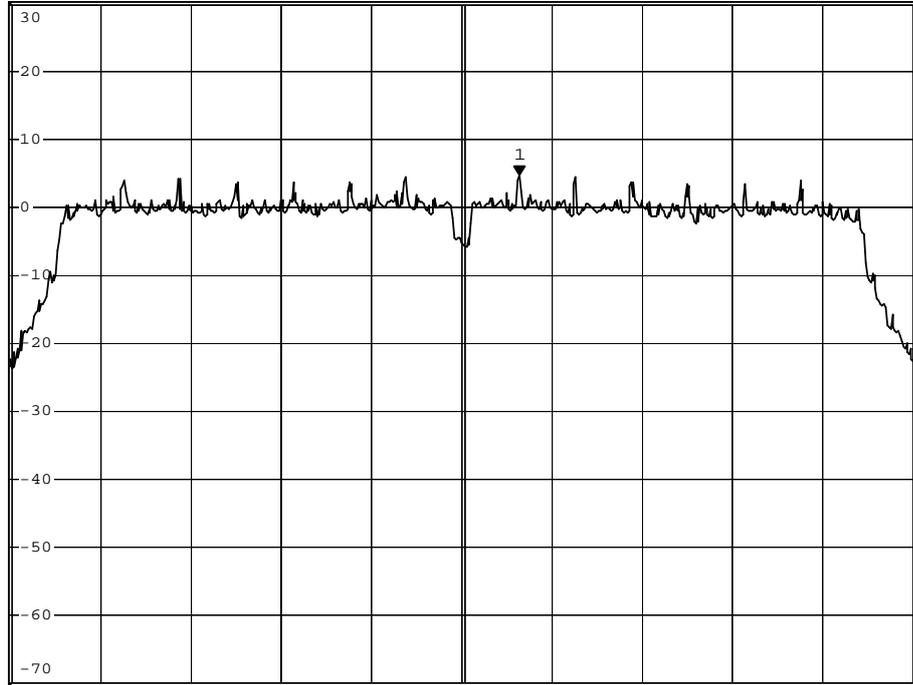
Channel 157



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 4.65 dBm
SWT 20 ms 5.786280000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.785 GHz 2 MHz/ Span 20 MHz

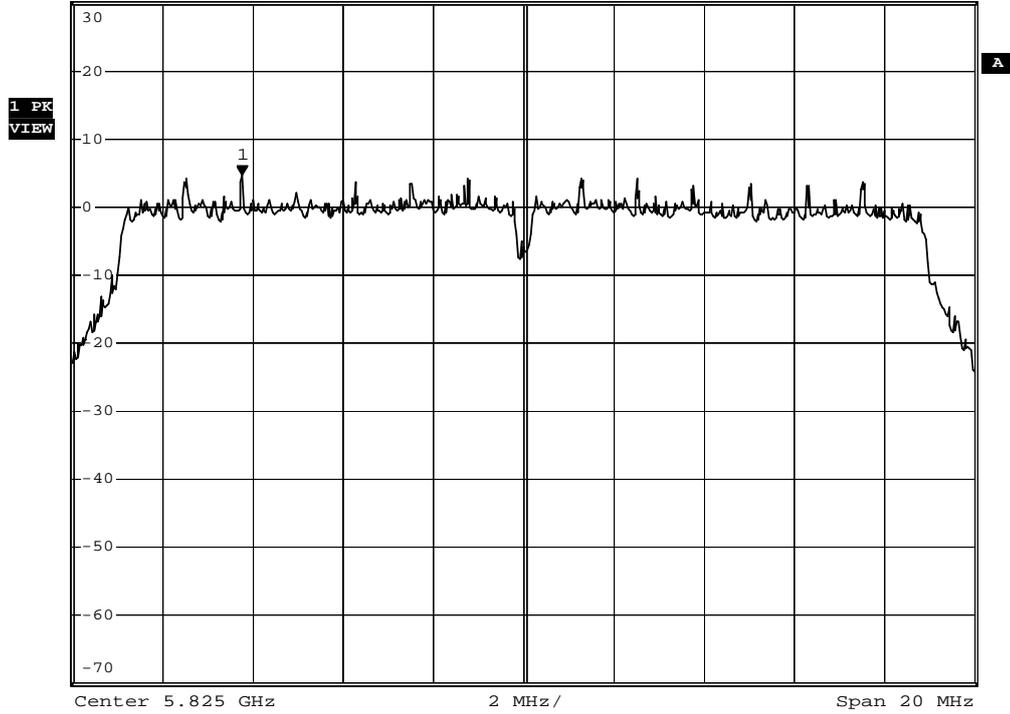
Comment: A:\2
Date: 16.OCT.2012 13:51:12

Channel 165



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 4.58 dBm
SWT 20 ms 5.818760000 GHz

Ref 30 dBm *Att 40 dB



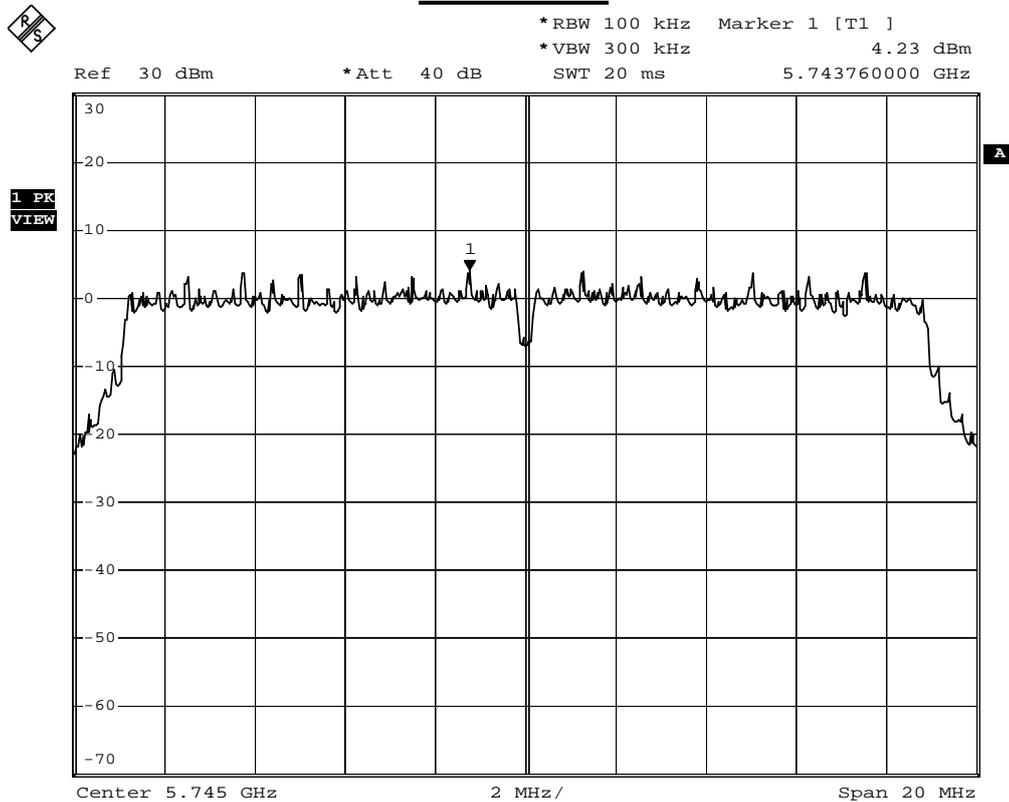
Comment: A:\2
Date: 16.OCT.2012 13:54:05

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n_20MHz_(ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	4.23	-10.97	≤ 8	Pass
157	5785	4.36	-10.84	≤ 8	Pass
165	5825	3.55	-11.65	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 149



Comment: A:\2
 Date: 16.OCT.2012 13:49:59

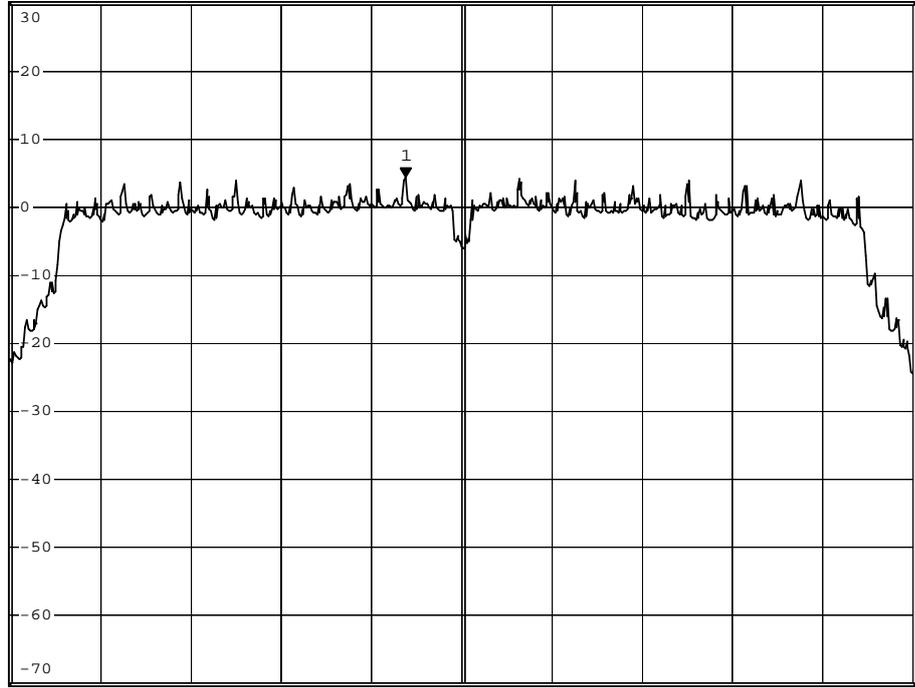
Channel 157



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 4.36 dBm
SWT 20 ms 5.783760000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.785 GHz 2 MHz/ Span 20 MHz

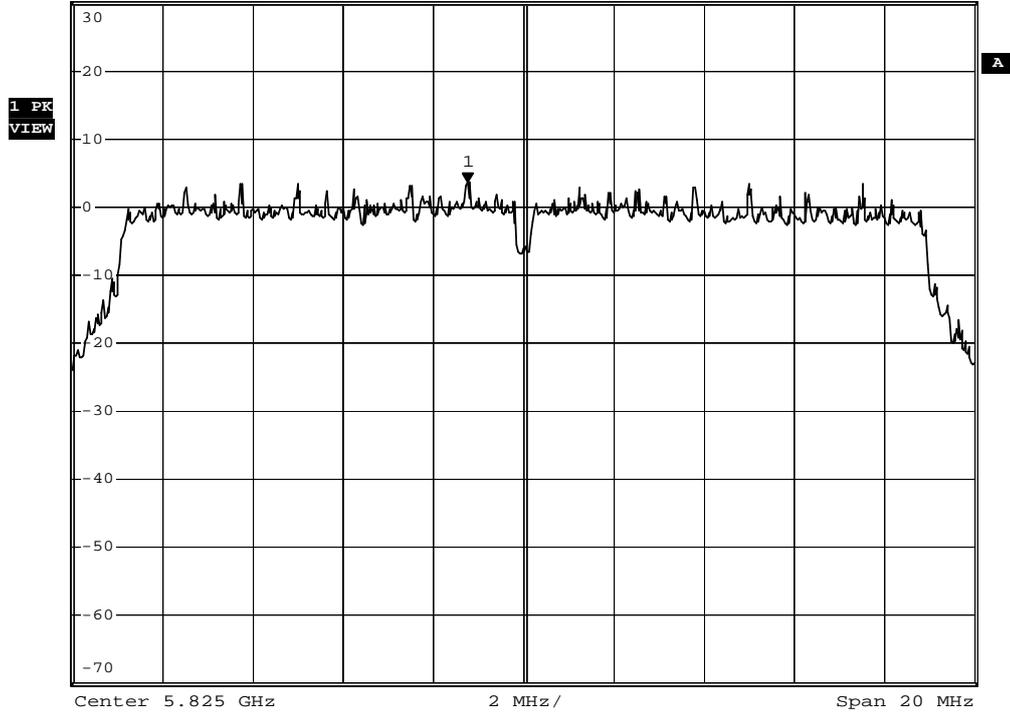
Comment: A:\2
Date: 16.OCT.2012 13:51:49

Channel 165



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 3.55 dBm
SWT 20 ms 5.823760000 GHz

Ref 30 dBm *Att 40 dB



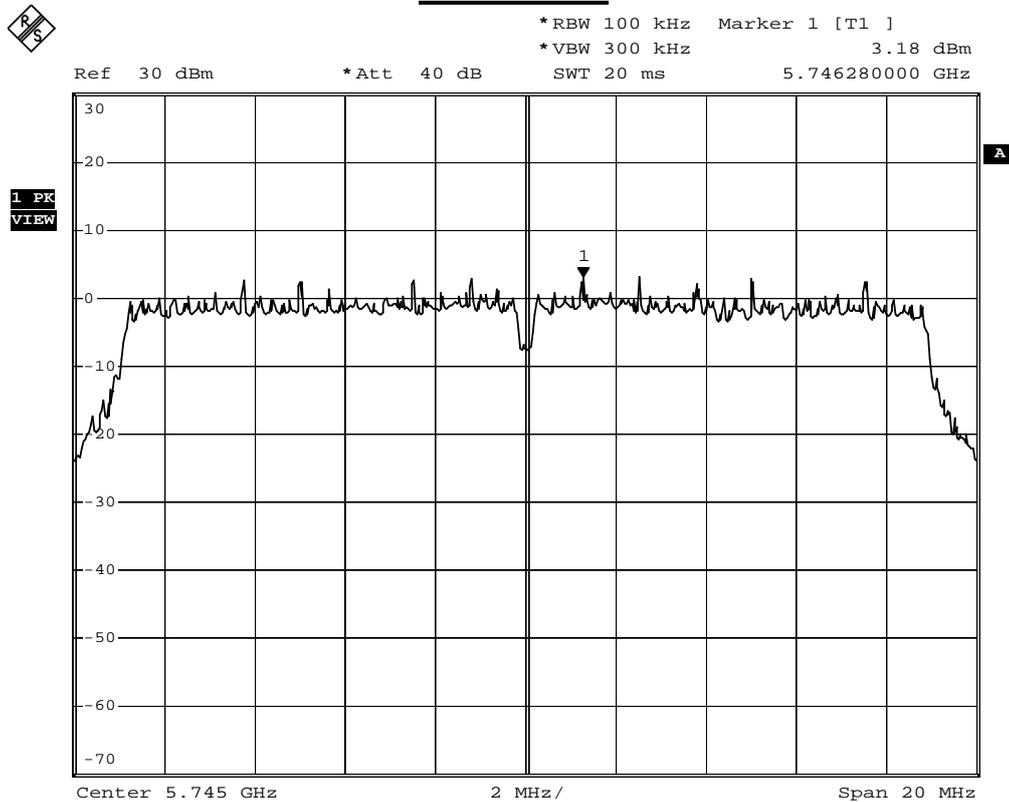
Comment: A:\2
Date: 16.OCT.2012 13:53:36

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n_20MHz_(ANT 2)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	3.18	-12.02	≤ 8	Pass
157	5785	3.39	-11.81	≤ 8	Pass
165	5825	3.21	-11.99	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 149



Comment: A:\2
 Date: 16.OCT.2012 13:49:15

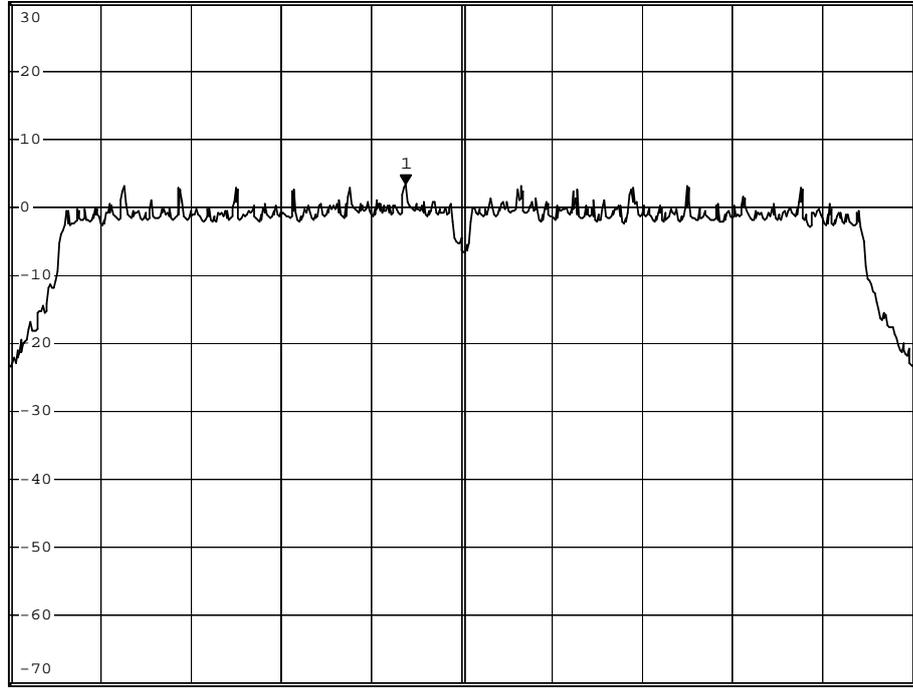
Channel 157



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 3.39 dBm
SWT 20 ms 5.783760000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.785 GHz 2 MHz/ Span 20 MHz

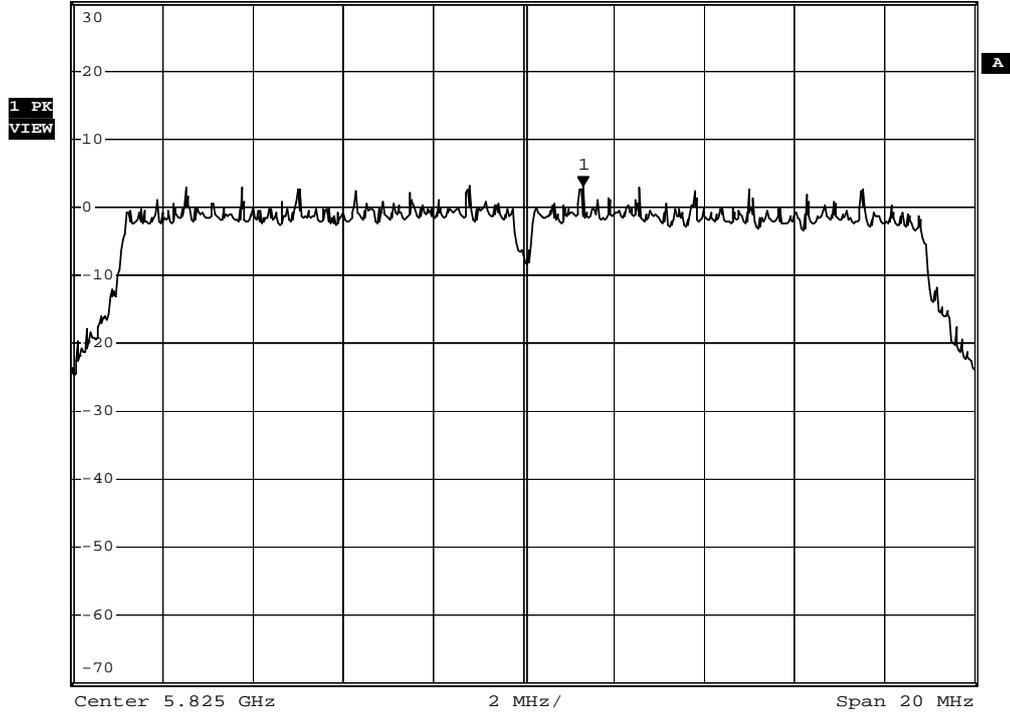
Comment: A:\2
Date: 16.OCT.2012 13:52:21

Channel 165



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 3.21 dBm
SWT 20 ms 5.826320000 GHz

Ref 30 dBm *Att 40 dB



Comment: A:\2
Date: 16.OCT.2012 13:53:06

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

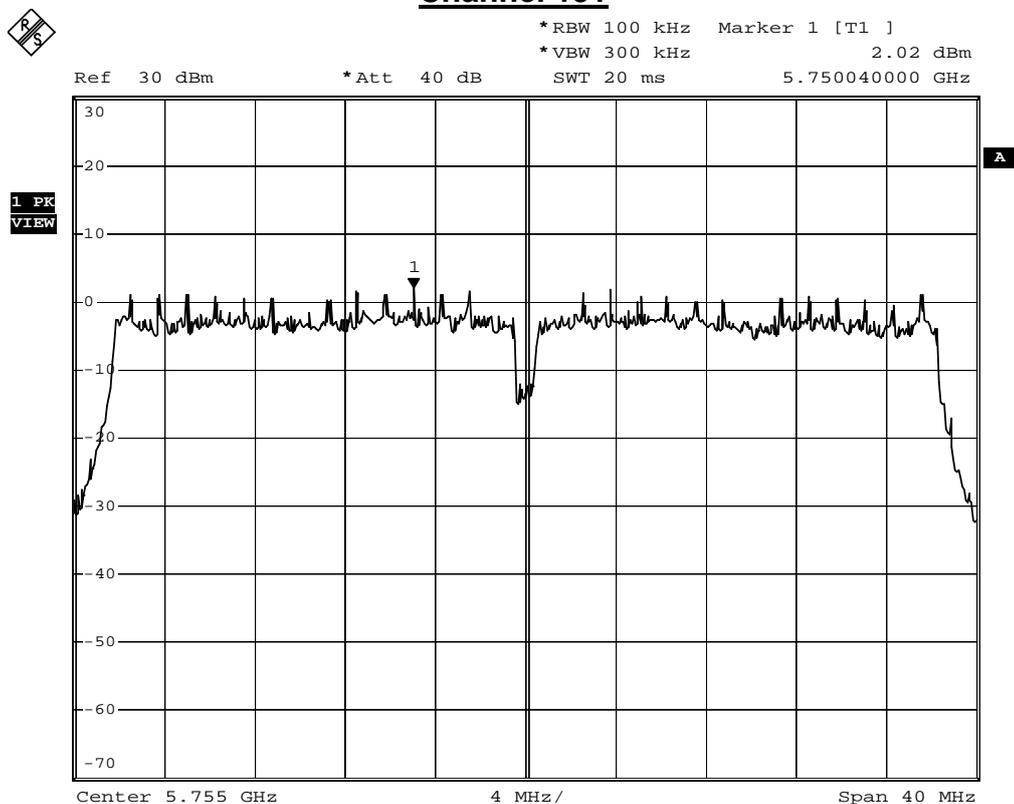
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-6.51	≤ 8	Pass
157	5785	-6.26	≤ 8	Pass
165	5825	-6.61	≤ 8	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
151	5755	2.02	-13.18	≤ 8	Pass
159	5795	2.32	-12.88	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 151



Comment: A:\2
 Date: 16.OCT.2012 13:47:17

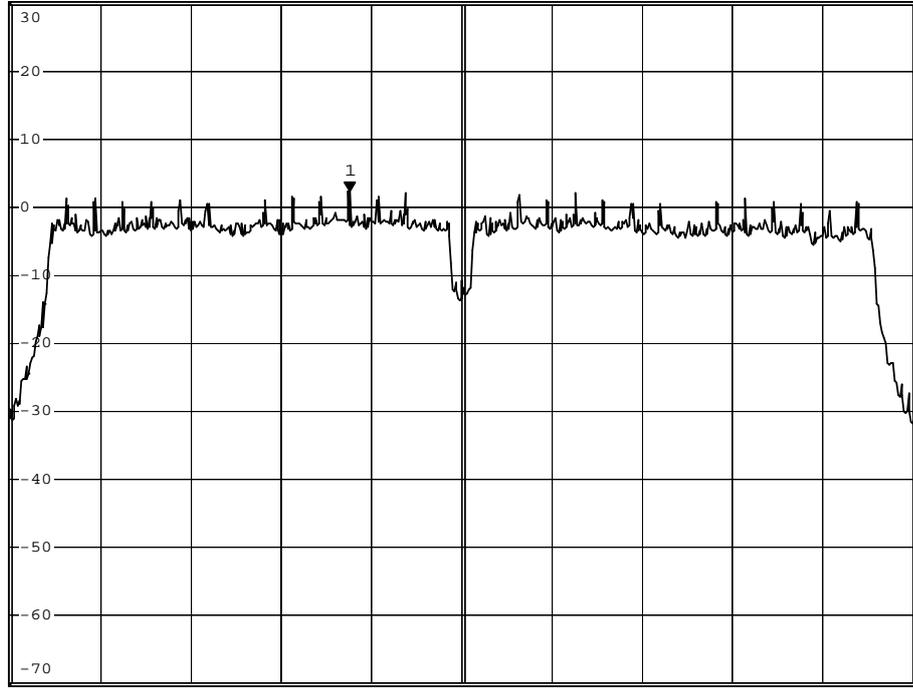
Channel 159



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 2.32 dBm
SWT 20 ms 5.790040000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.795 GHz 4 MHz/ Span 40 MHz

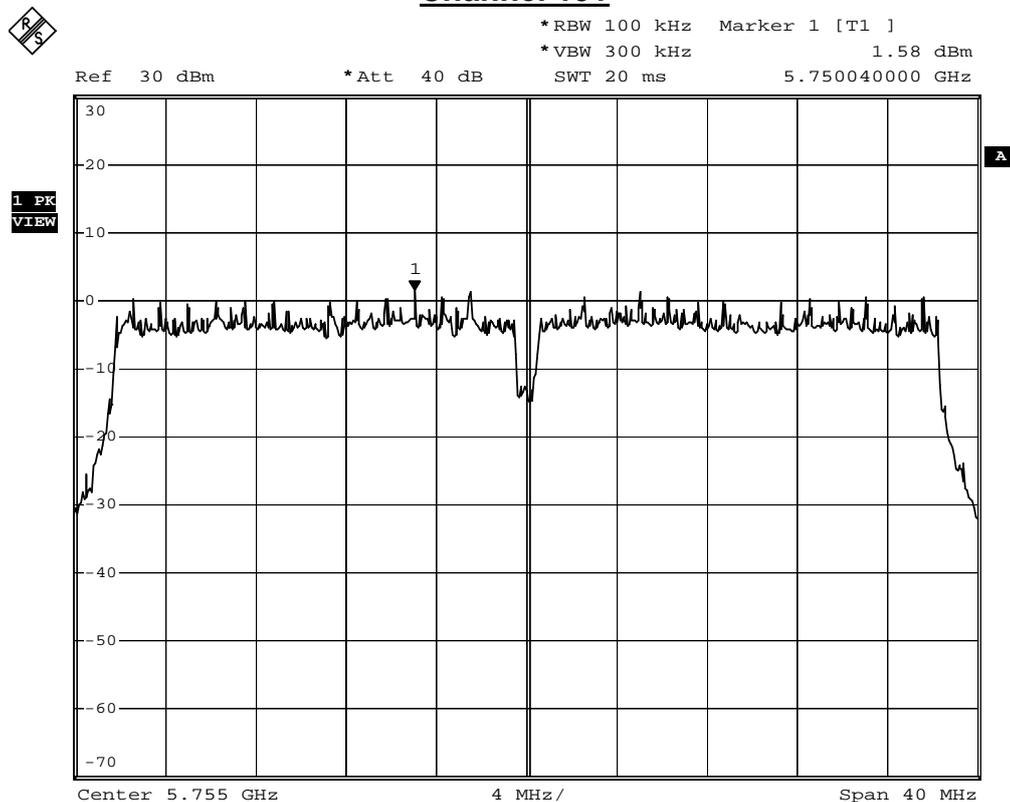
Comment: A:\2
Date: 16.OCT.2012 13:46:45

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
151	5755	1.58	-13.62	≤ 8	Pass
159	5795	1.69	-13.51	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 151



Comment: A:\2
 Date: 16.OCT.2012 13:47:57

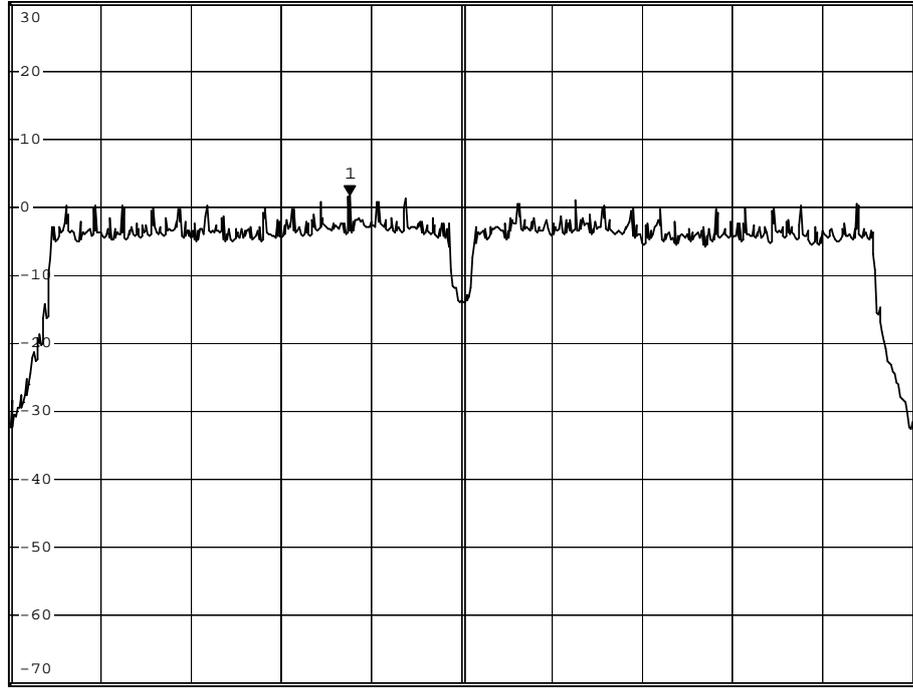
Channel 159



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 1.69 dBm
SWT 20 ms 5.790040000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.795 GHz 4 MHz/ Span 40 MHz

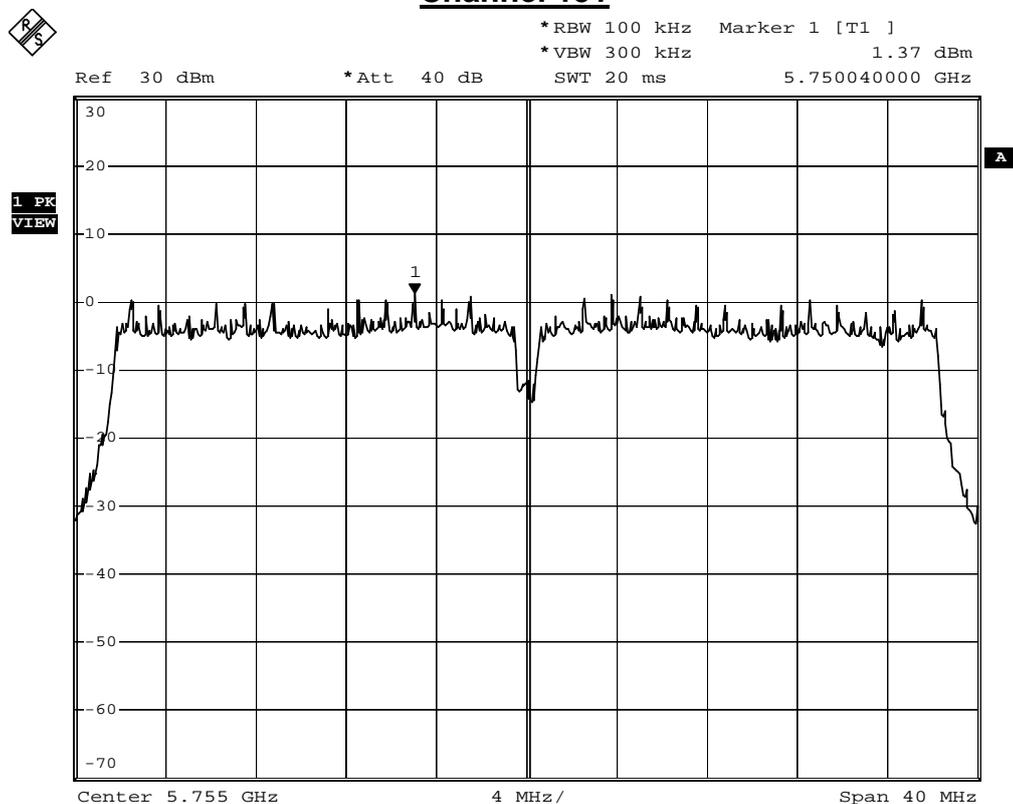
Comment: A:\2
Date: 16.OCT.2012 13:45:18

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11n_40MHz (ANT 2)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
151	5755	1.37	-13.83	≤ 8	Pass
159	5795	0.90	-14.30	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 151



Comment: A:\2
 Date: 16.OCT.2012 13:48:33

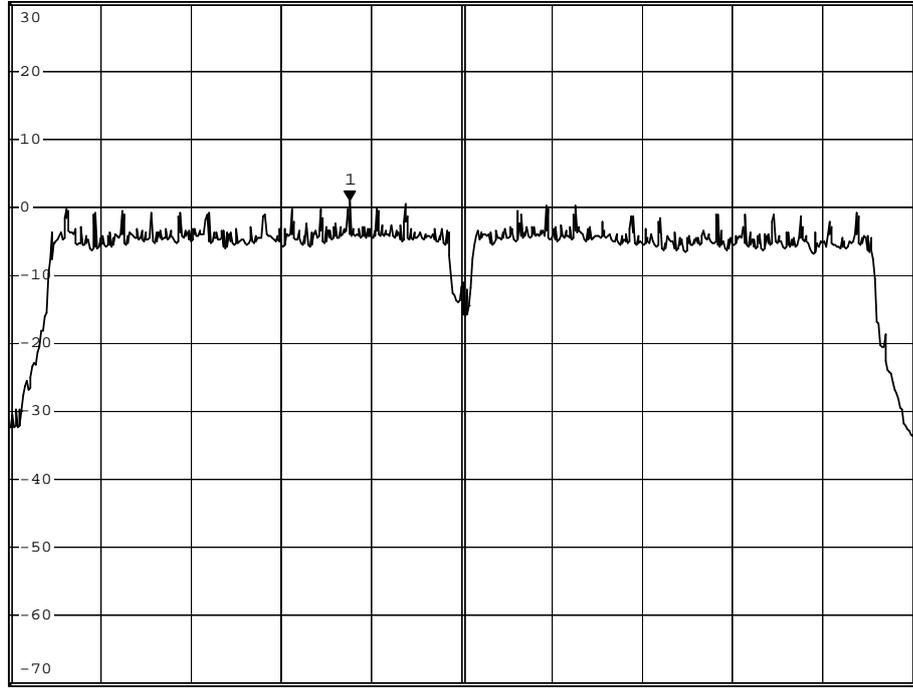
Channel 159



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 0.90 dBm
SWT 20 ms 5.790040000 GHz

Ref 30 dBm *Att 40 dB

1 PK
VIEW



Center 5.795 GHz 4 MHz/ Span 40 MHz

Comment: A:\2
Date: 16.OCT.2012 13:45:58

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

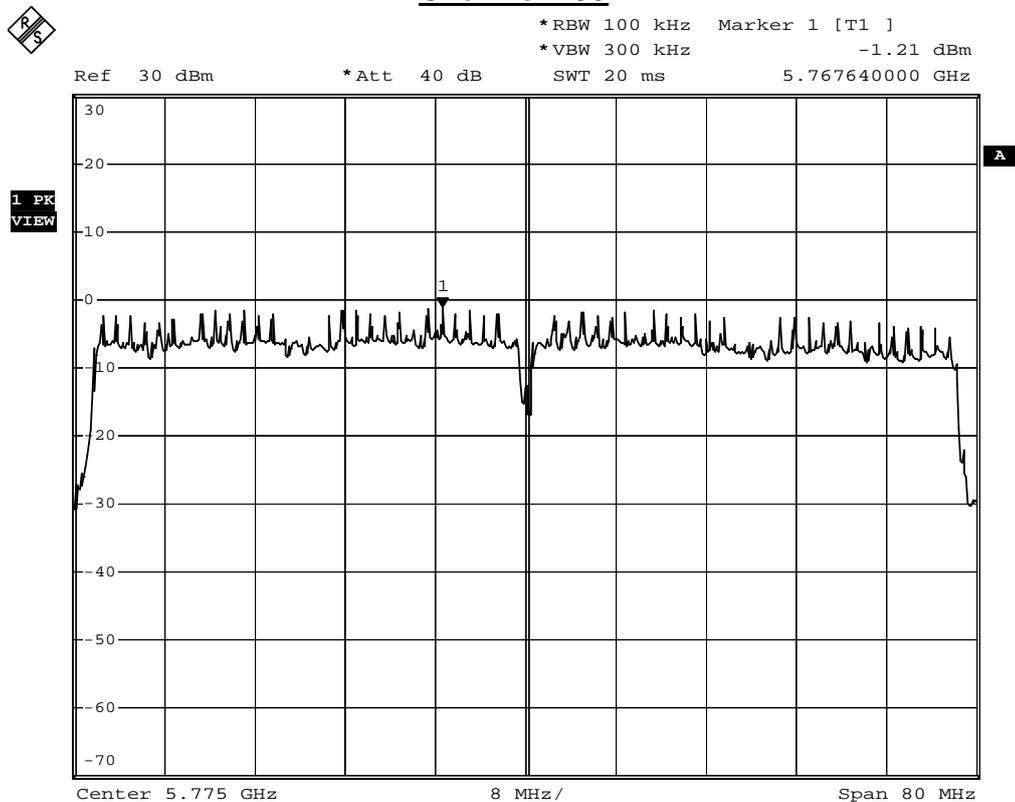
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-8.76	≤ 8	Pass
159	5795	-8.75	≤ 8	Pass

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
155	5775	-1.21	-16.41	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 155



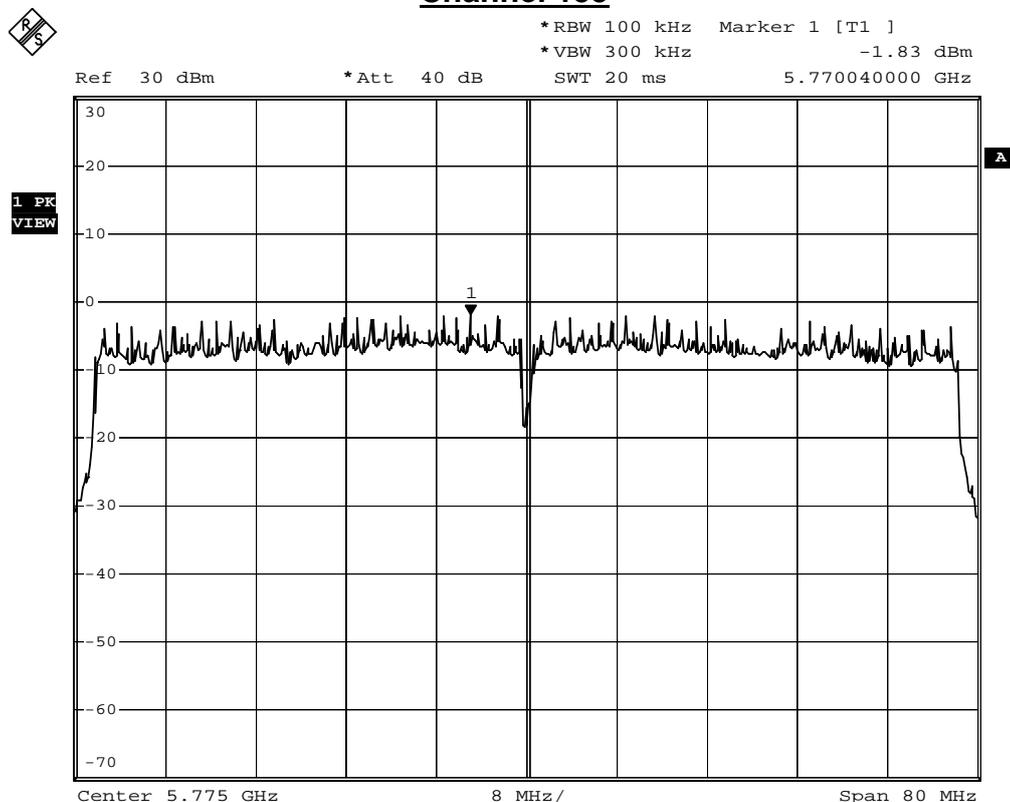
Comment: A:\2
 Date: 16.OCT.2012 13:34:41

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
155	5775	-1.83	17.03	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 155



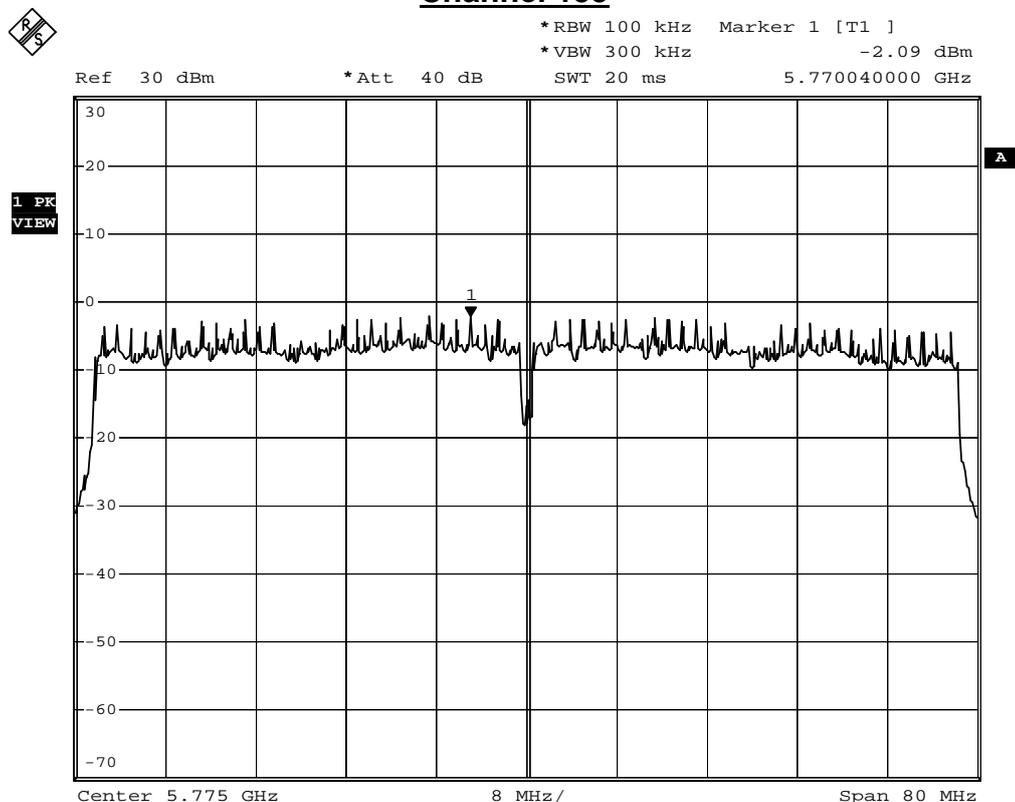
Comment: A:\2
 Date: 16.OCT.2012 13:34:08

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 2)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
155	5775	-2.09	-17.29	≤ 8	Pass

* Emission Level = Reading Level + BWCF = Reading Level + 10log(3kHz/100kHz)

Channel 155



Comment: A:\2
 Date: 16.OCT.2012 13:33:08

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/10/16	Test Site	SR7

IEEE802.11ac 80MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-12.12	≤ 8	Pass