FCC Test Report

Product Name ： PCE-AC56 Dual-Band Wireless PCI-E Adapter

Model No. ： PCE-AC56

FCC ID. ： MSQ-PCEAC56

Applicant ： ASUSTeK COMPUTER INC.

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

Date of Receipt ： 2013/10/24

Issued Date ： 2013/12/11

Report No. ： 13B0341R-RFUSP38V00

Report Version ： V1.0

Testing Laboratory
1313

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 : 2013/12/11
Report No. : 13B0341R-RFUSP38V00

QuieTek

Product Name	:	PCE-AC56 Dual-Band Wireless PCI-E Adapter
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	Arcadyan Technology Corporation
Model No.	:	PCE-AC56
FCC ID.	:	MSQ-PCEAC56
EUT Voltage	:	DC 3.3V (Power by PC)
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012 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 :
(Bruno Tsai / Assistant Engineer)

Approved By :
(Roy Wang / Director)

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**
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:

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

LinKou Testing Laboratory:
No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

TABLE OF CONTENTS

Description Page

1. General Information....6
1.1. EUT Description....6
1.2. Operational Description....11
1.3. Test Mode....12
1.4. Tested System Details....13
1.5. Configuration of tested System....14
1.6. EUT Exercise Software....15
1.7. Test Facility....16
2. Conducted Emission....17
2.1. Test Equipment....17
2.2. Test Setup....17
2.3. Limits....18
2.4. Test Procedure....18
2.5. Test Specification....18
2.6. Uncertainty....18
2.7. Test Result....19
2.8. Test Photo....23
3. Peak Power Output....24
3.1. Test Equipment....24
3.2. Test Setup....24
3.3. Test procedures....24
3.4. Limits....24
3.5. Test Specification....24
3.6. Uncertainty....24
3.7. Test Result....25
4. Radiated Emission....138
4.1. Test Equipment....138
4.2. Test Setup....138
4.3. Limits....139
4.4. Test Procedure....139
4.5. Test Specification....139
4.6. Uncertainty....139
4.7. Test Result....140

4.8. Test Photo 227
5. RF antenna conducted test 229
5.1. Test Equipment 229
5.2. Test Setup 229
5.3. Limits 230
5.4. Test Procedure 230
5.5. Test Specification 230
5.6. Uncertainty 230
5.7. Test Result 231
6. Band Edge 429
6.1. Test Equipment 429
6.2. Test Setup 429
6.3. Limits 430
6.4. Test Procedure 430
6.5. Test Specification 430
6.6. Uncertainty 430
6.7. Test Result 431
7. Occupied Bandwidth 491
7.1. Test Equipment 491
7.2. Test Setup 491
7.3. Test Procedures 491
7.4. Limits 491
7.5. Test Specification 491
7.6. Uncertainty 491
7.7. Test Result 492
8. Power Density 567
8.1. Test Equipment 567
8.2. Test Setup 567
8.3. Limits 567
8.4. Test Procedures 567
8.5. Test Specification 567
8.6. Uncertainty 567
8.7. Test Result 568
Attachement 685
EUT Photograph 685

1. General Information

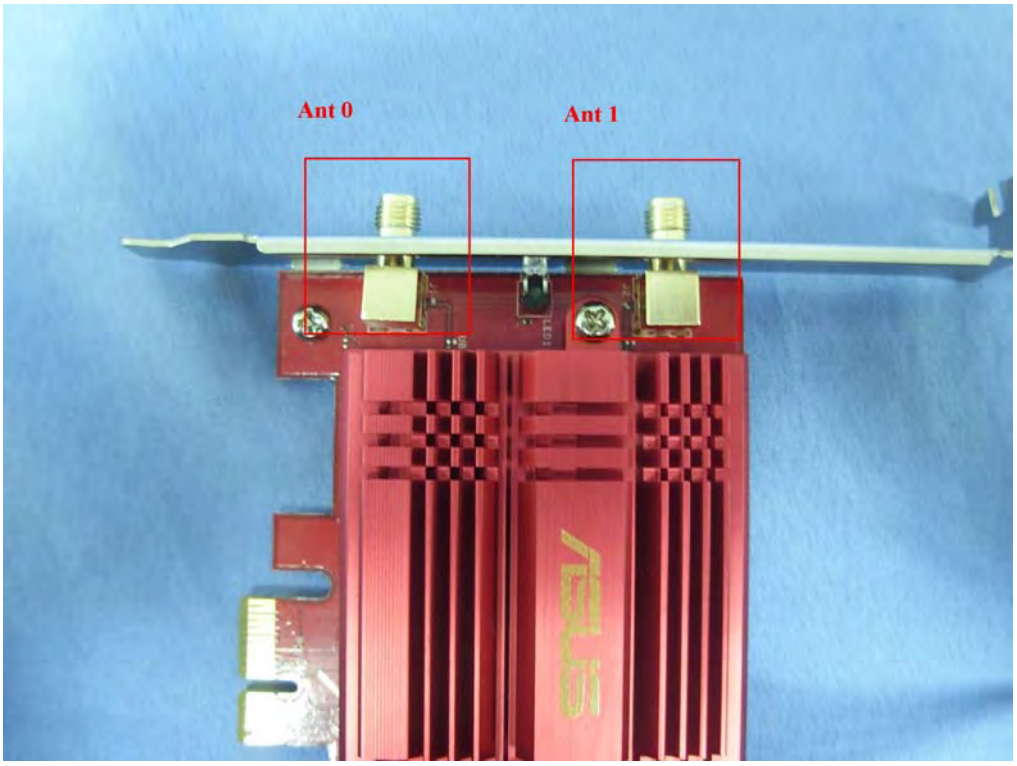
1.1. EUT Description

Product Name	PCE-AC56 Dual-Band Wireless PCI-E Adapter	
Product Type	WLAN(2TX,2RX)	
Trade Name	ASUS	
Model No.	PCE-AC56	
Frequency Range/ Channel Number	IEEE 802.11b/g/ IEEE 802.11n (20MHz)_2.4GHz	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)_2.4GHz	2422~2452MHz / 7 Channels
	IEEE 802.11a/ IEEE 802.11n (20MHz)_5.8GHz / IEEE 802.11ac (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz)_5.8GHz / IEEE 802.11ac (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5775~5775MHz / 1 Channel
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 15 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	2.4G:Ant0:2dBi, Ant1:2dBi 5G:Ant0:4dBi, Ant1:4dBi	
Beamforming Gain	3dB	
Antenna Type	Dipole Antenna	

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11b	✓			✓		
IEEE802.11g	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

2TX / 2RX



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	
								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	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 2 – MCS parameters for TX Antenna number = 2

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

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

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) - 5GHz

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) - 5GHz

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

IEEE 802.11ac (80MHz) - 5GHz

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a PCE-AC56 Dual-Band Wireless PCI-E Adapter including 2.4GHz b/g/n and 5GHz a/n (2x2) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 13B0341R-RFUSP55V00.
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 13B0341R-RFUSP01V00 under Declaration of Conformity.

1.3. Test Mode

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

TX	Mode 1: Transmit (CDD mode) Mode 2: Transmit (Beamforming mode)

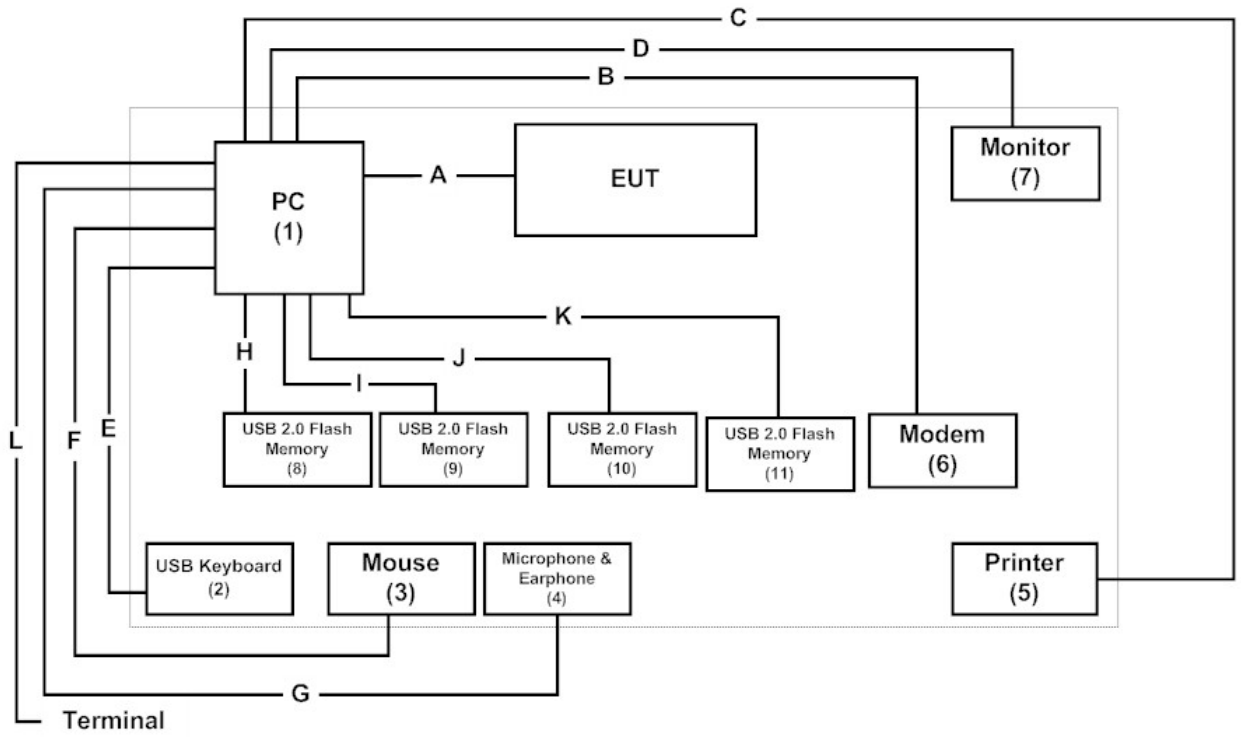
Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
Peak Power Output	a	149/ 157/ 165	0+1	Complies
	b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
Radiated Emission	a	149/ 157/ 165	0+1	Complies
	b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
RF antenna conducted test	a	149/ 165	0/1	Complies
	b/g	1/ 11	0/1	Complies
	11n(20MHz)	1/ 11/ 149/ 165	0/1	Complies
	11n(40MHz)	3/ 9/ 151/ 159	0/1	Complies
	11ac(80MHz)	155	0/1	Complies
Radiated Emission Band Edge	b/g	1/ 11	0+1	Complies
	11n(20MHz)	1/ 11	0+1	Complies
	11n(40MHz)	3/ 9	0+1	Complies
Occupied Bandwidth	a	149/ 157/ 165	0/1	Complies
	b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0/1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0/1	Complies
	11ac(80MHz)	155	0/1	Complies
Power Density	a	149/ 157/ 165	0+1	Complies
	b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	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-72872-16R-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

Connection Diagram


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 control program “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

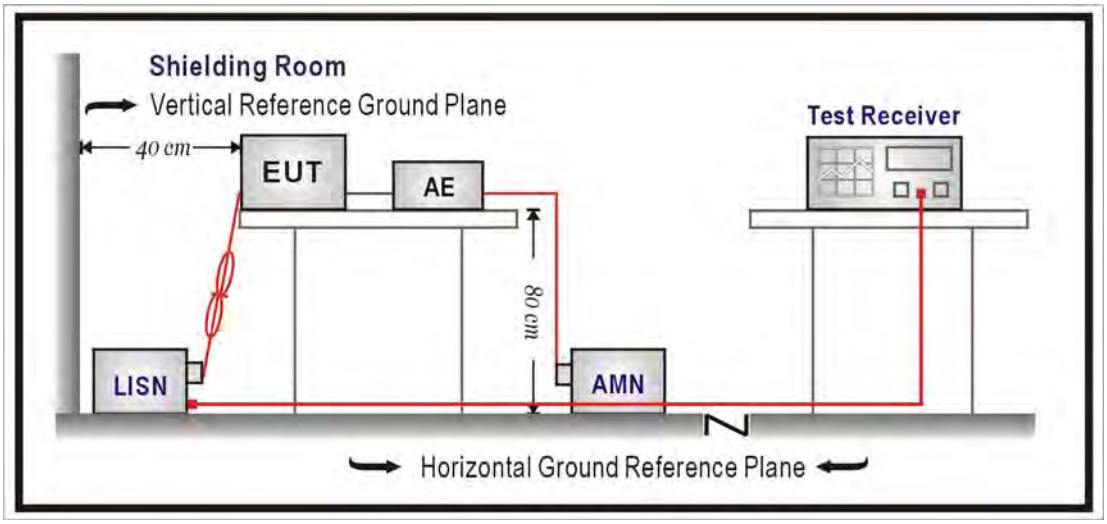
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2014/08/01
LISN	R&S	ESH3-Z5	836679/022	2014/01/20
Test Receiver	R&S	ESCS 30	825442/017	2014/01/01

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

2.2. Test Setup



2.3. Limits

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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Oct. 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

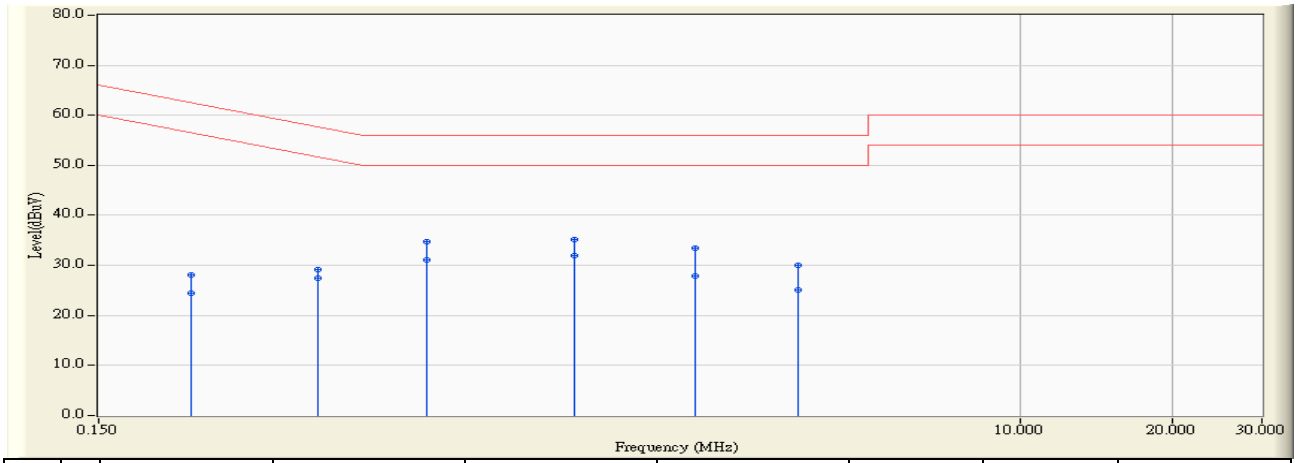
According to FCC Part 15 Subpart C Paragraph 15.207: 2012

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	**Time : 2013/12/07 - 11:53**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line1	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : 802.11n40_2437MHz**

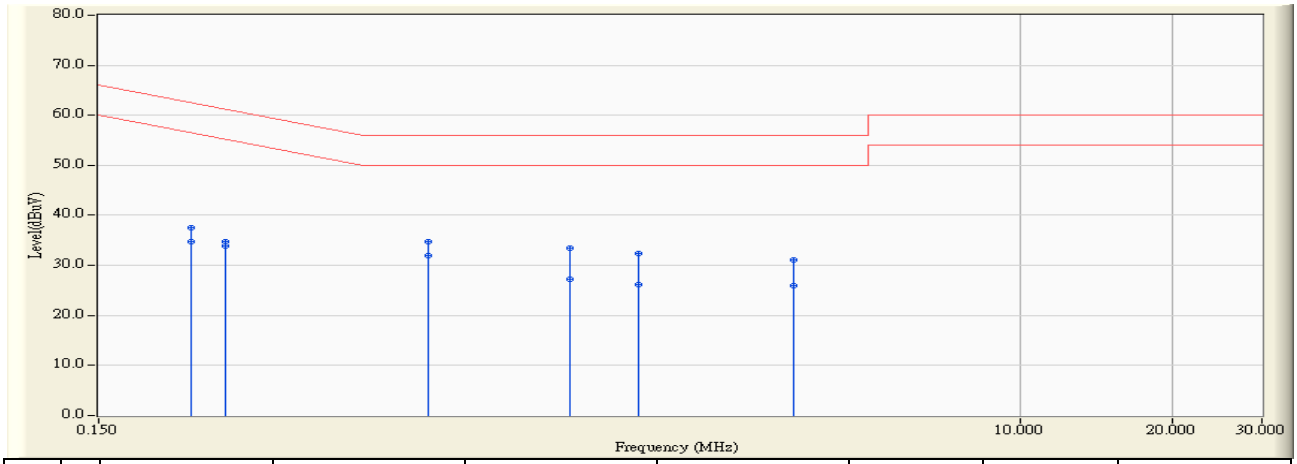


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.676	18.420	28.096	-34.422	62.518	QUASIPEAK
2		0.228	9.676	14.820	24.496	-28.022	52.518	AVERAGE
3		0.408	9.776	19.310	29.086	-28.607	57.693	QUASIPEAK
4		0.408	9.776	17.660	27.436	-20.257	47.693	AVERAGE
5		0.670	9.860	24.970	34.830	-21.170	56.000	QUASIPEAK
6		0.670	9.860	21.170	31.030	-14.970	46.000	AVERAGE
7		1.310	9.950	25.220	35.170	-20.830	56.000	QUASIPEAK
8	*	1.310	9.950	22.020	31.970	-14.030	46.000	AVERAGE
9		2.267	9.980	23.560	33.540	-22.460	56.000	QUASIPEAK
10		2.267	9.980	17.840	27.820	-18.180	46.000	AVERAGE
11		3.630	10.050	20.040	30.090	-25.910	56.000	QUASIPEAK
12		3.630	10.050	15.030	25.080	-20.920	46.000	AVERAGE

Note:

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

Site : SR3	**Time : 2013/12/07 - 12:03**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line2	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : 802.11n40_2437MHz**

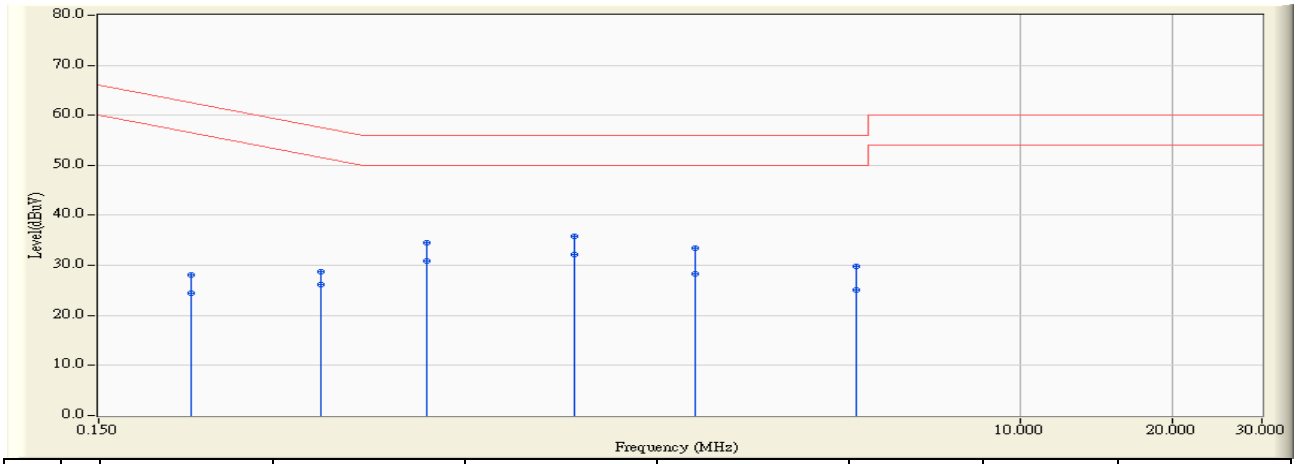


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.676	27.880	37.556	-24.962	62.518	QUASIPEAK
2		0.228	9.676	25.040	34.716	-17.802	52.518	AVERAGE
3		0.267	9.696	25.150	34.846	-26.359	61.205	QUASIPEAK
4		0.267	9.696	24.120	33.816	-17.389	51.205	AVERAGE
5		0.673	9.852	24.900	34.752	-21.248	56.000	QUASIPEAK
6	*	0.673	9.852	22.030	31.882	-14.118	46.000	AVERAGE
7		1.287	9.930	23.460	33.390	-22.610	56.000	QUASIPEAK
8		1.287	9.930	17.290	27.220	-18.780	46.000	AVERAGE
9		1.752	9.940	22.540	32.480	-23.520	56.000	QUASIPEAK
10		1.752	9.940	16.150	26.090	-19.910	46.000	AVERAGE
11		3.556	10.010	21.190	31.200	-24.800	56.000	QUASIPEAK
12		3.556	10.010	15.950	25.960	-20.040	46.000	AVERAGE

Note:

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

Site : SR3	**Time : 2013/12/07 - 12:18**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line1	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : AC80_5775MHz**

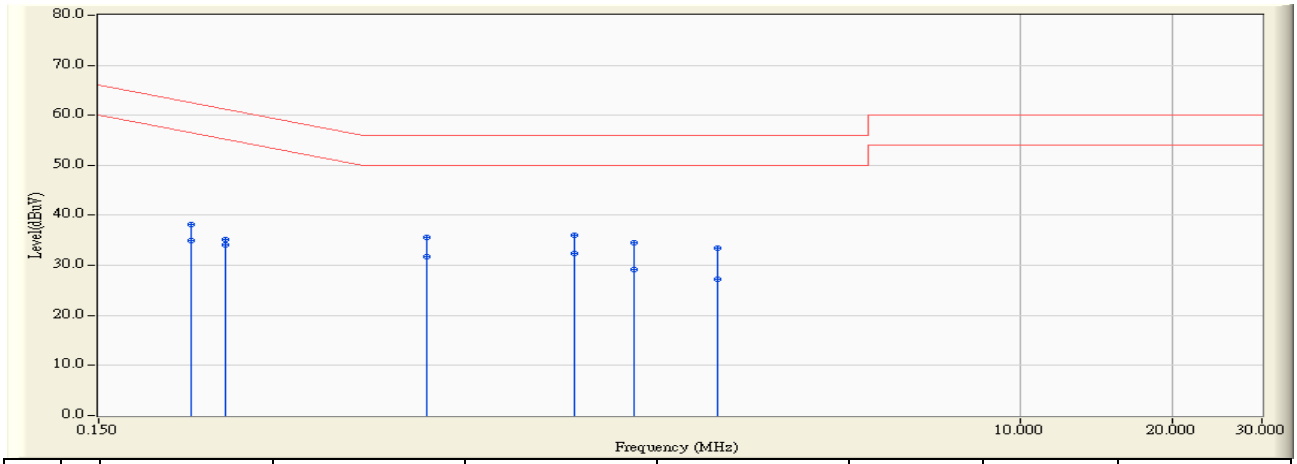


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.676	18.500	28.176	-34.342	62.518	QUASIPEAK
2		0.228	9.676	14.880	24.556	-27.962	52.518	AVERAGE
3		0.412	9.779	18.950	28.729	-28.885	57.614	QUASIPEAK
4		0.412	9.779	16.430	26.209	-21.405	47.614	AVERAGE
5		0.670	9.860	24.730	34.590	-21.410	56.000	QUASIPEAK
6		0.670	9.860	21.050	30.910	-15.090	46.000	AVERAGE
7		1.314	9.950	25.850	35.800	-20.200	56.000	QUASIPEAK
8	*	1.314	9.950	22.310	32.260	-13.740	46.000	AVERAGE
9		2.267	9.980	23.560	33.540	-22.460	56.000	QUASIPEAK
10		2.267	9.980	18.400	28.380	-17.620	46.000	AVERAGE
11		4.716	10.100	19.720	29.820	-26.180	56.000	QUASIPEAK
12		4.716	10.100	15.010	25.110	-20.890	46.000	AVERAGE

Note:

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

Site : SR3	**Time : 2013/12/07 - 12:22**
Limit : CISPR_B_00M_QP	**Margin : 6**
Probe : SR3_LISN(16A)-3_0813 - Line2	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : AC80_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.229	9.677	28.470	38.147	-24.328	62.475	QUASIPEAK
2		0.229	9.677	25.270	34.947	-17.528	52.475	AVERAGE
3		0.267	9.696	25.390	35.086	-26.119	61.205	QUASIPEAK
4		0.267	9.696	24.450	34.146	-17.059	51.205	AVERAGE
5		0.670	9.850	25.680	35.530	-20.470	56.000	QUASIPEAK
6		0.670	9.850	21.940	31.790	-14.210	46.000	AVERAGE
7		1.314	9.930	26.190	36.120	-19.880	56.000	QUASIPEAK
8	*	1.314	9.930	22.470	32.400	-13.600	46.000	AVERAGE
9		1.724	9.940	24.650	34.590	-21.410	56.000	QUASIPEAK
10		1.724	9.940	19.230	29.170	-16.830	46.000	AVERAGE
11		2.505	9.962	23.600	33.562	-22.438	56.000	QUASIPEAK
12		2.505	9.962	17.380	27.342	-18.658	46.000	AVERAGE

Note:

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

3. Peak Power Output

3.1. Test Equipment

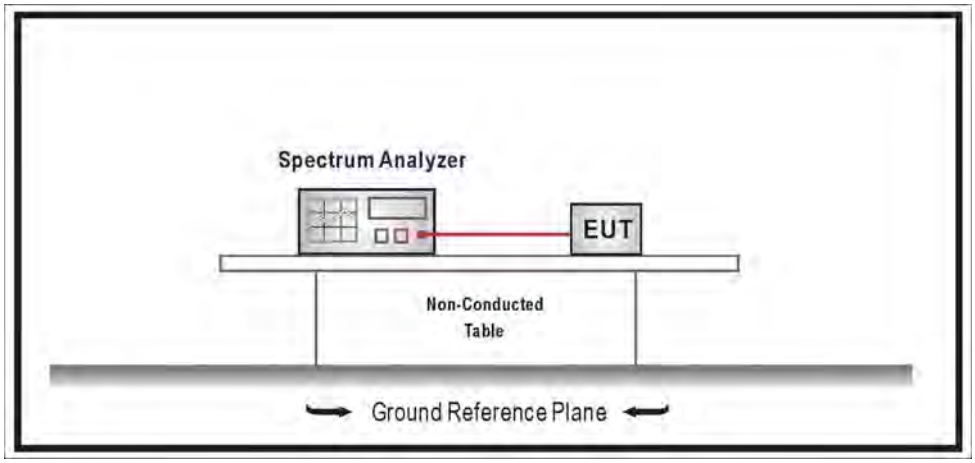
The following test equipments are used during the test:

Peak Power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 section 9.2.2 of KDB558074 v03r01 measurement to FCC 47CFR 15.247 requirements. Set the RBW=1MHz, Set the VBW≧ 3xRBW, Sweep Time=Auto, Set RMS Detector.

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: 2012

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

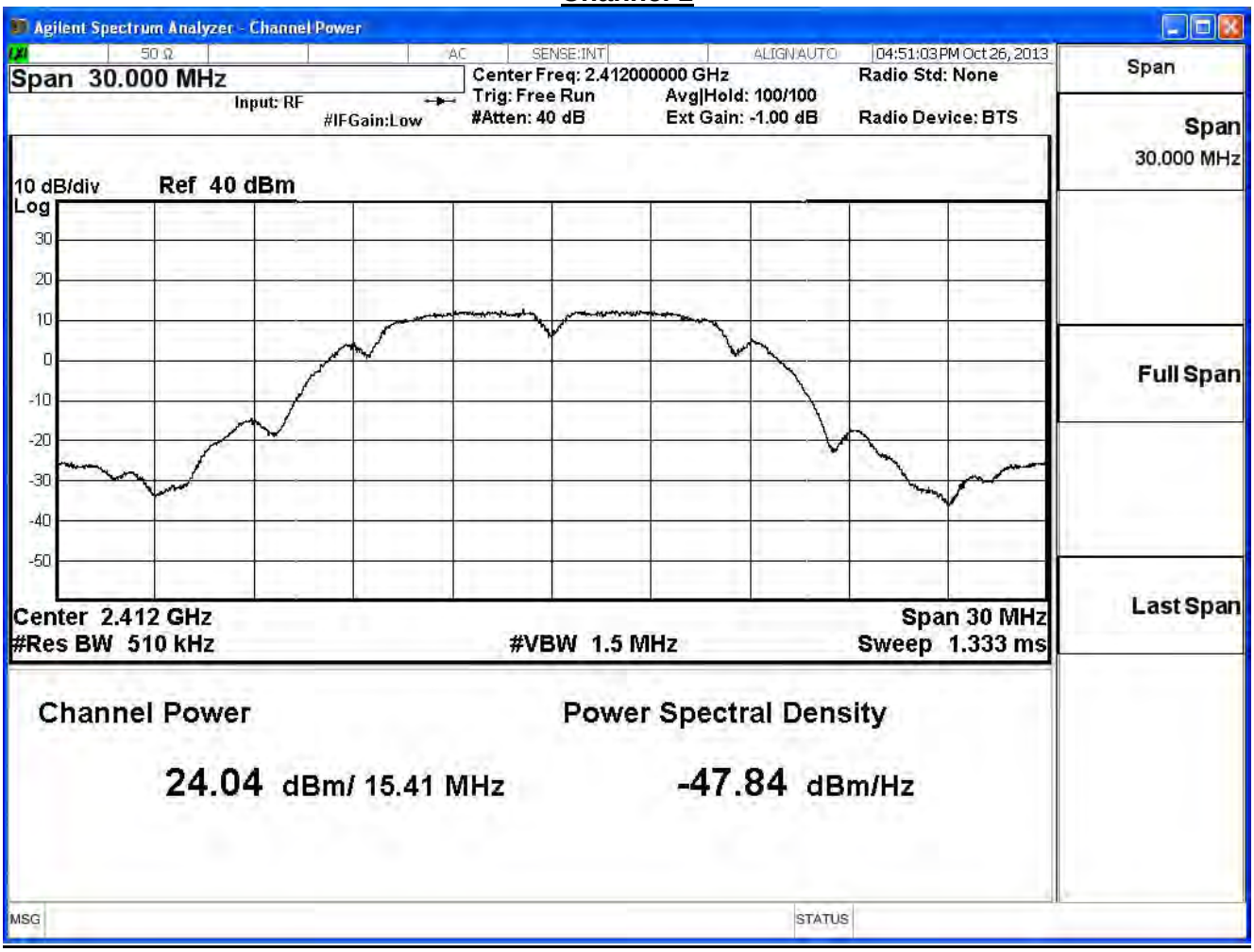
IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.04	30	Pass
6	2437	24.75	30	Pass
11	2462	22.74	30	Pass

The worst emission of data rate is 1Mbps.

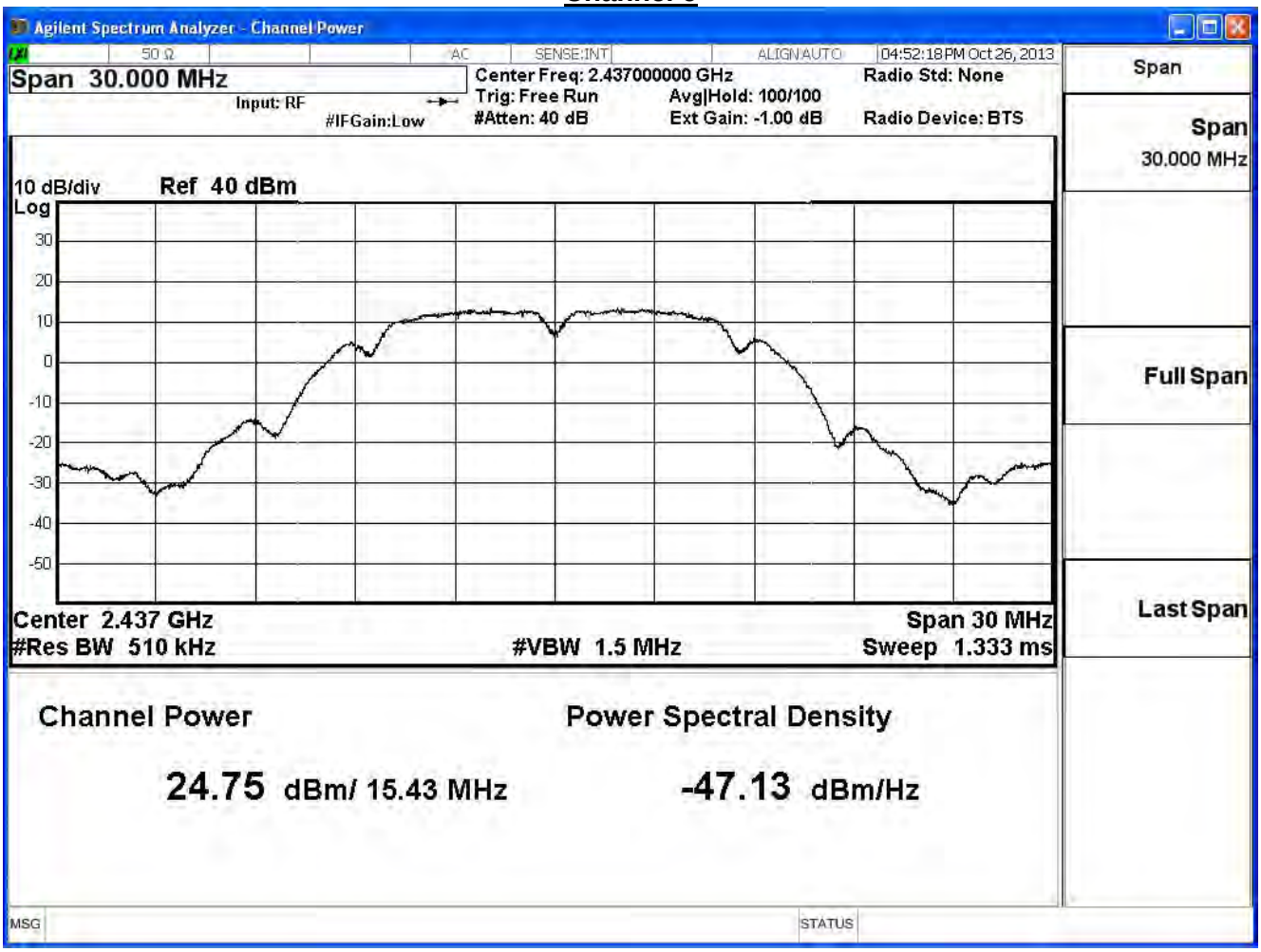
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	24.04	--	--	--	1 Watt=30dBm
6	2437	24.75	24.65	24.41	24.19	1 Watt=30dBm
11	2462	22.74	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

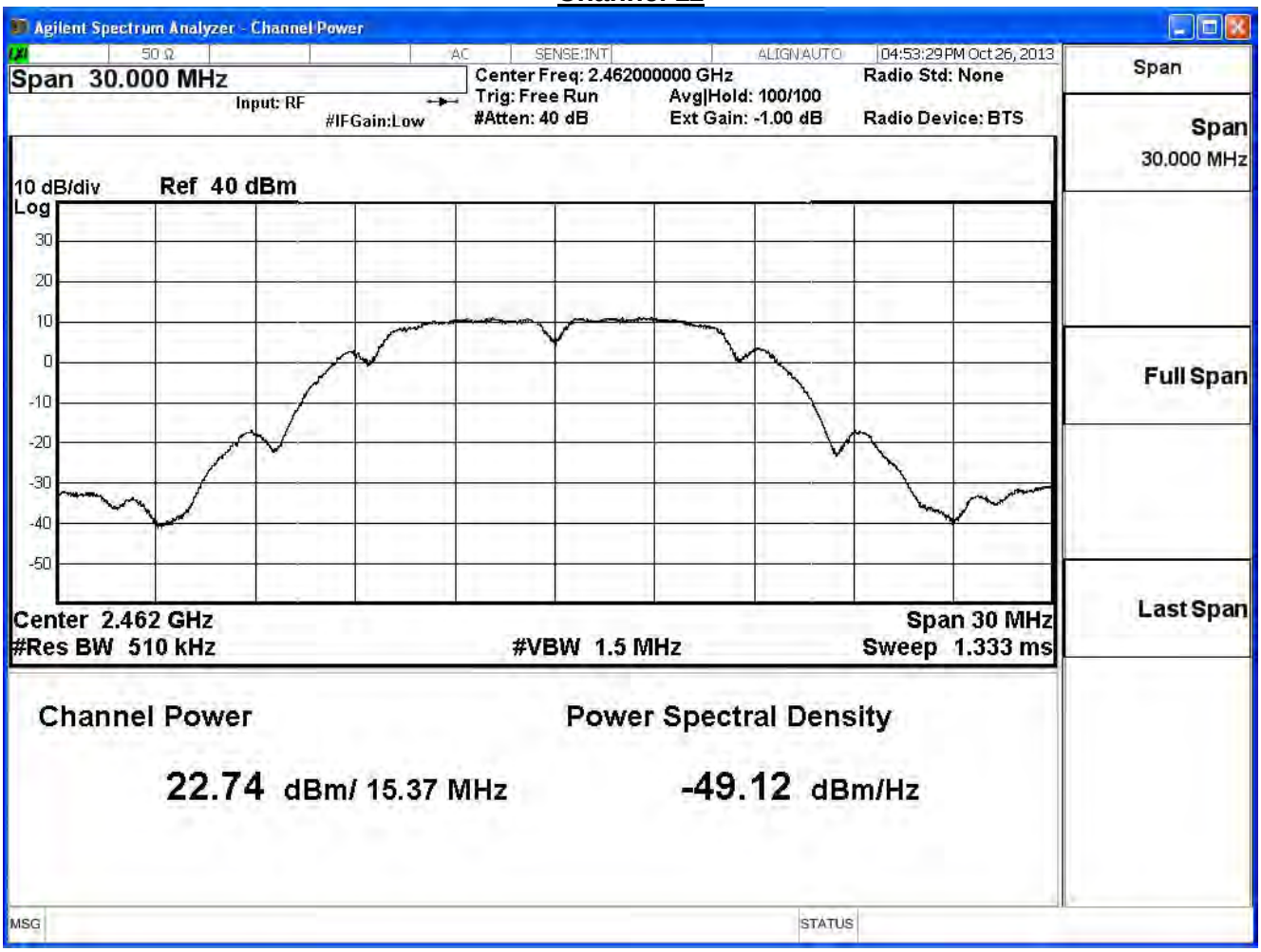
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:51:03 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.04 dBm/ 15.41 MHz
Power Spectral Density
-47.84 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:52:18 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.75 dBm/ 15.43 MHz
Power Spectral Density
-47.13 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:53:29 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
22.74 dBm/ 15.37 MHz
Power Spectral Density
-49.12 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

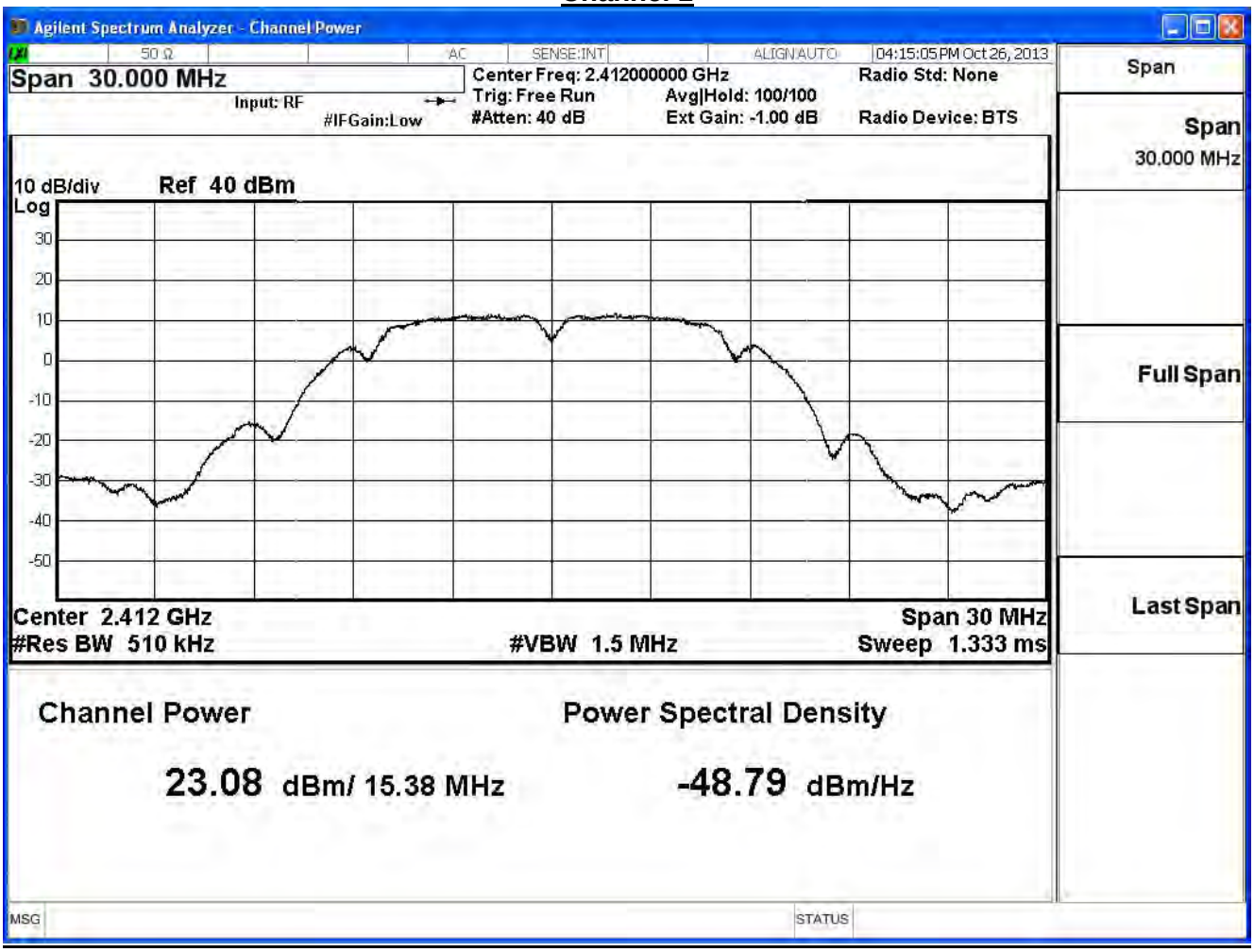
IEEE 802.11b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.08	30	Pass
6	2437	24.34	30	Pass
11	2462	22.89	30	Pass

The worst emission of data rate is 1Mbps.

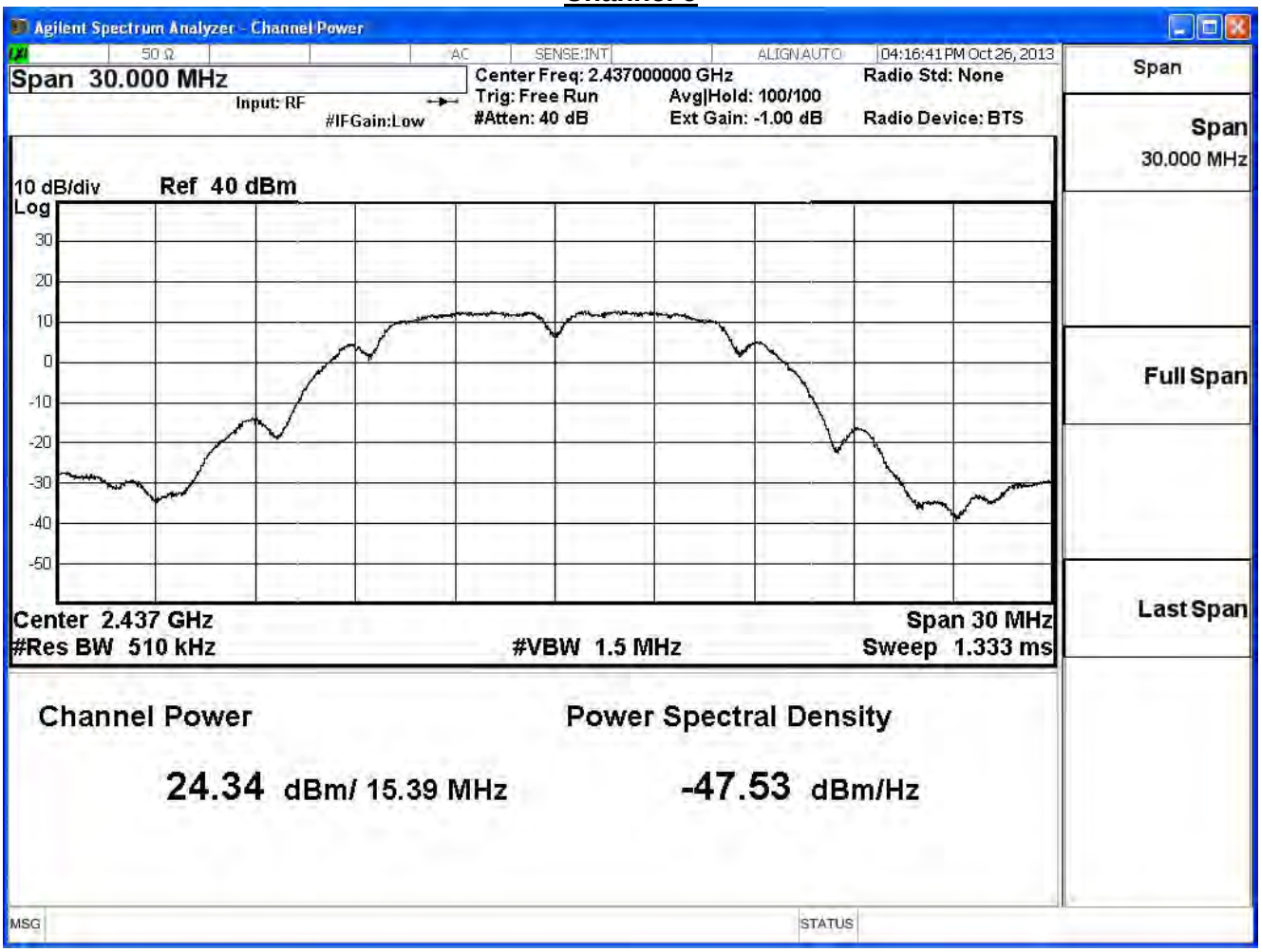
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	23.08	--	--	--	1 Watt=30dBm
6	2437	24.34	24.14	24.02	23.80	1 Watt=30dBm
11	2462	22.89	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

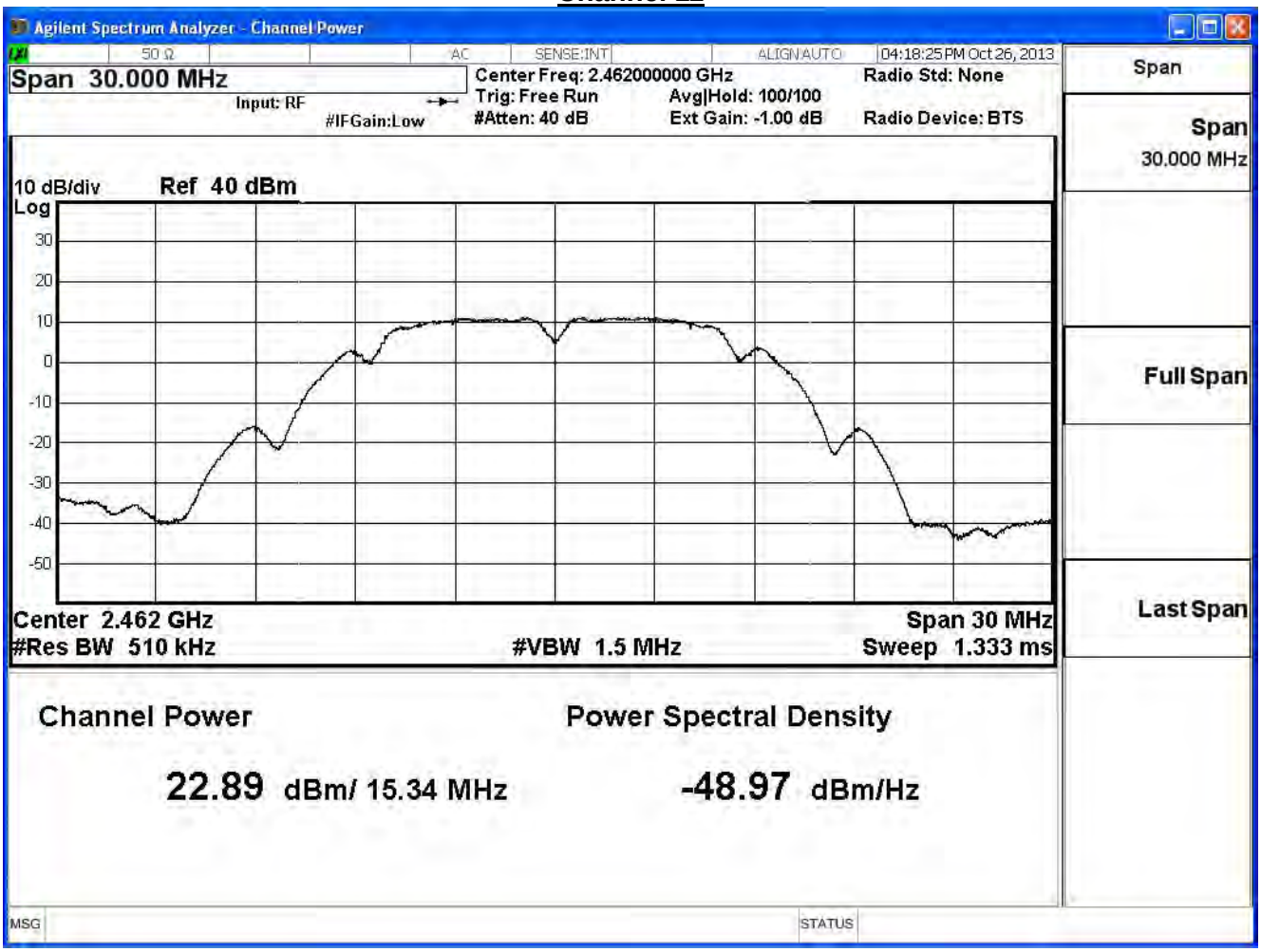
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:15:05 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.08 dBm/ 15.38 MHz
Power Spectral Density
-48.79 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:16:41 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 40 dB
Avg|Hold: 100/100
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.34 dBm/ 15.39 MHz
Power Spectral Density
-47.53 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:18:25 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
22.89 dBm/ 15.34 MHz
Power Spectral Density
-48.97 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11b (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	26.60	30	Pass
6	2437	27.56	30	Pass
11	2462	25.83	30	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	26.60	--	--	--	1 Watt=30dBm
6	2437	27.56	27.36	27.24	27.13	1 Watt=30dBm
11	2462	25.83	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

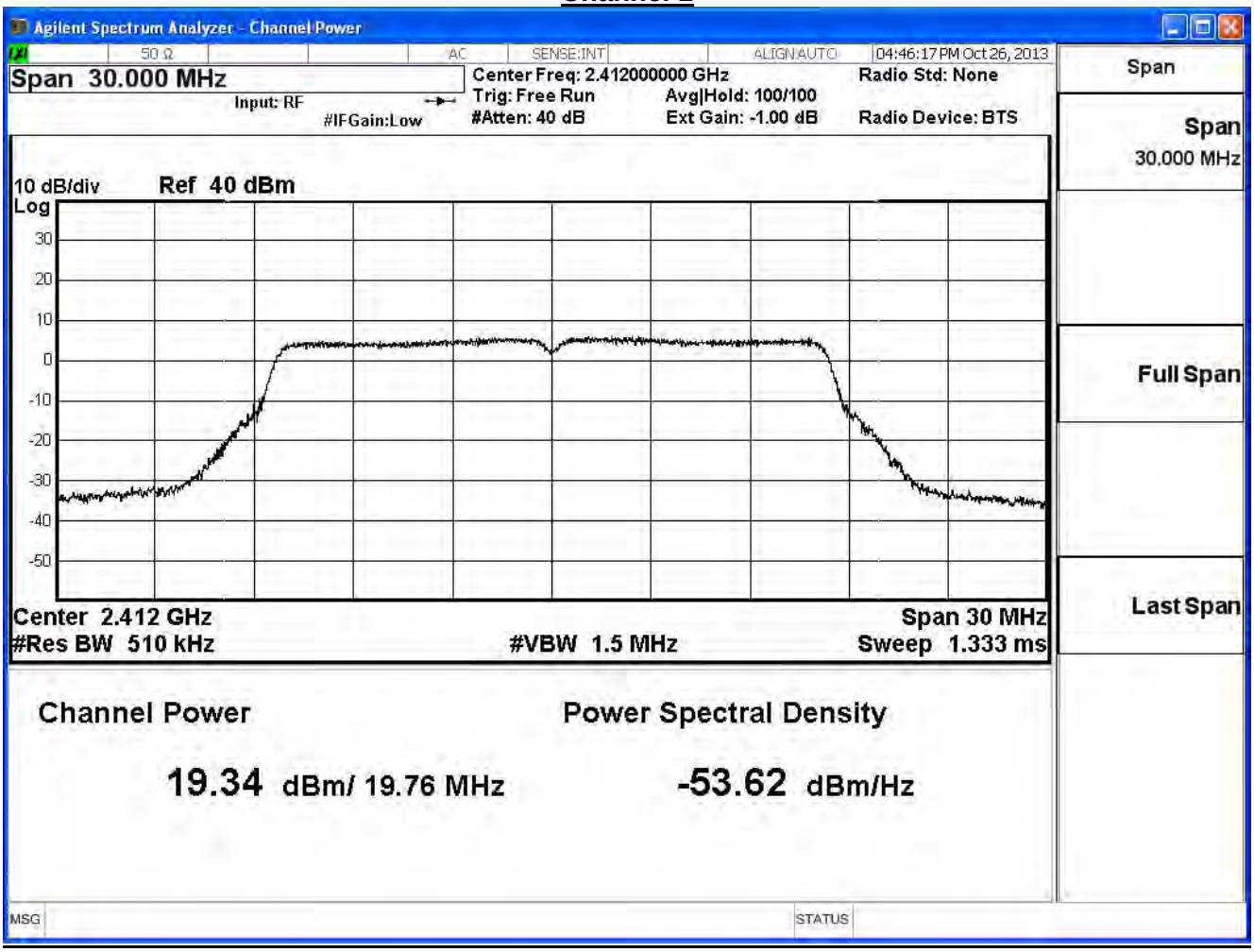
IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	19.34	30	Pass
6	2437	23.73	30	Pass
11	2462	18.58	30	Pass

The worst emission of data rate is 6Mbps.

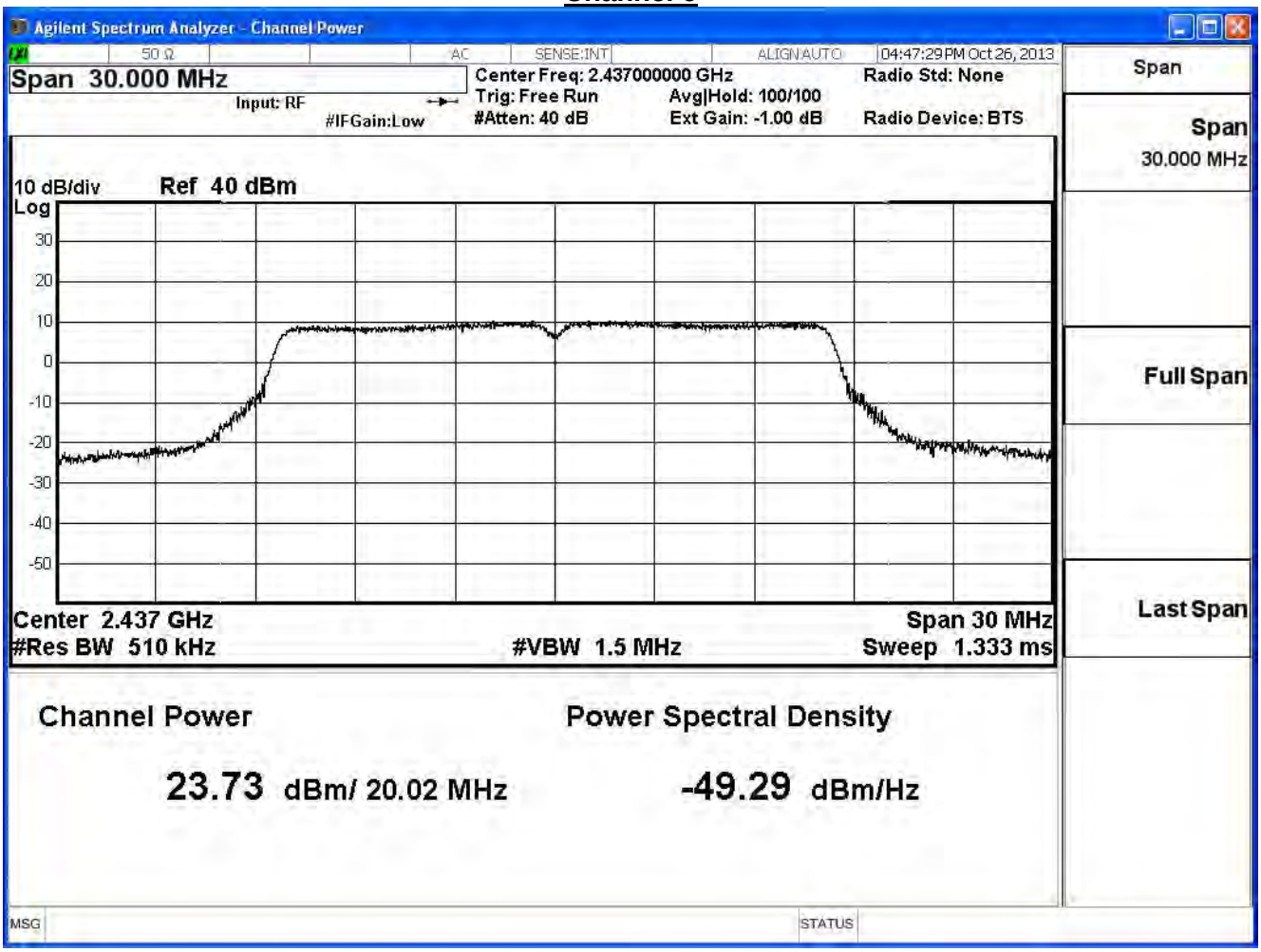
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	19.34	--	--	--	--	--	--	1 Watt=30dBm
6	2437	23.73	23.53	23.31	23.18	23.06	22.95	22.83	1 Watt=30dBm
11	2462	18.58	--	--	--	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

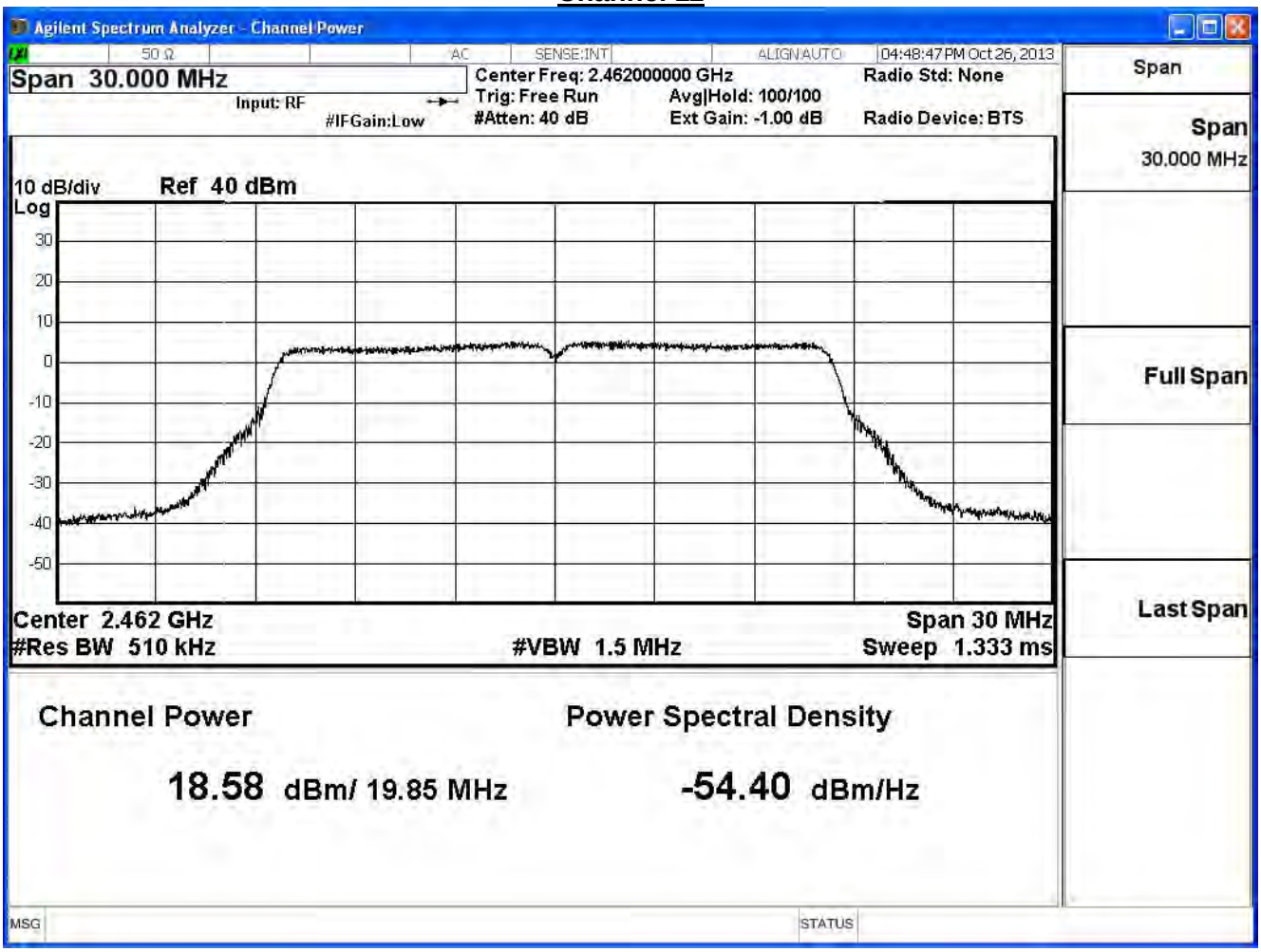
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:46:17 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
19.34 dBm/ 19.76 MHz
Power Spectral Density
-53.62 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:47:29 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.73 dBm/ 20.02 MHz
Power Spectral Density
-49.29 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:48:47 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.58 dBm/ 19.85 MHz
Power Spectral Density
-54.40 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

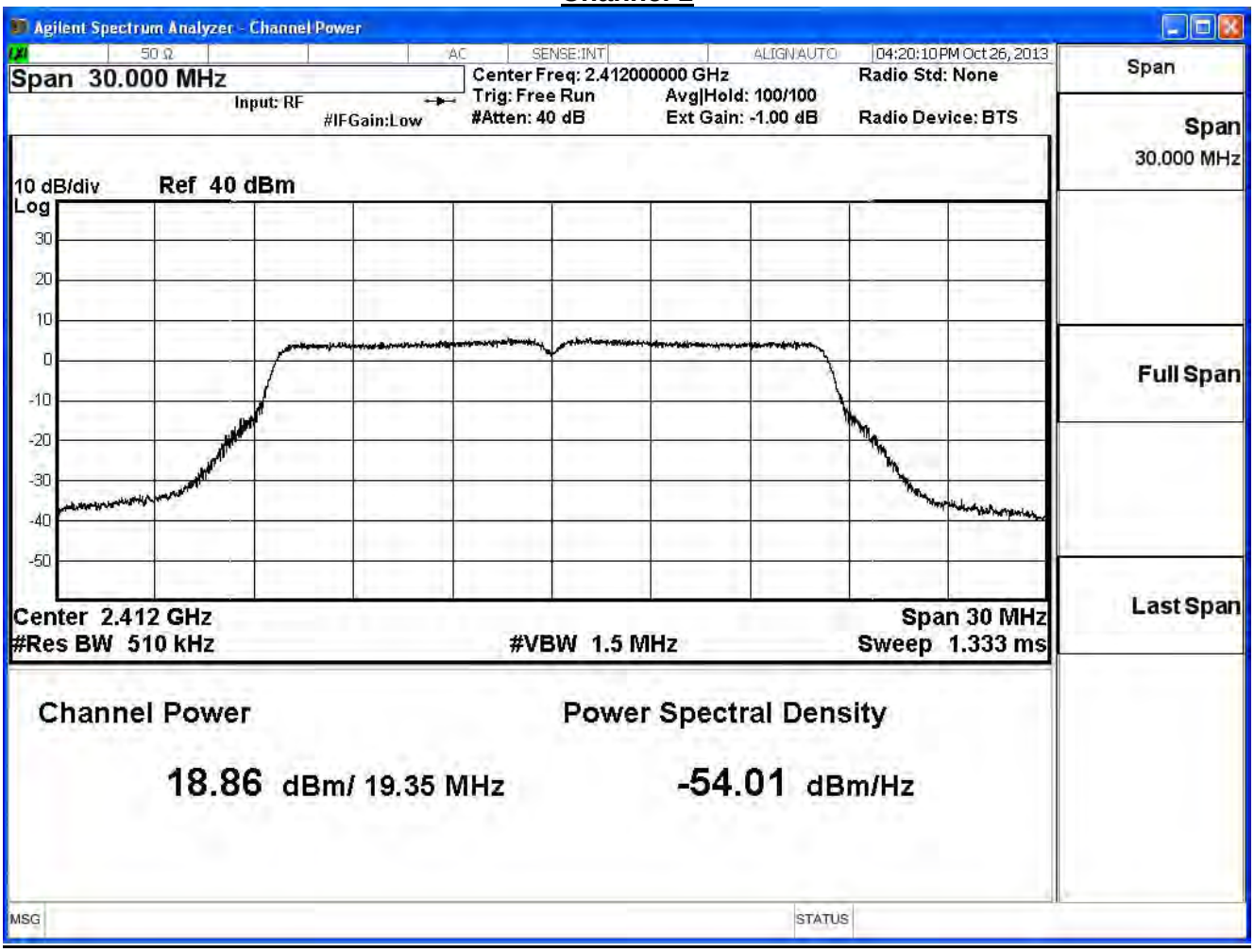
IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.86	30	Pass
6	2437	23.49	30	Pass
11	2462	18.72	30	Pass

The worst emission of data rate is 6Mbps.

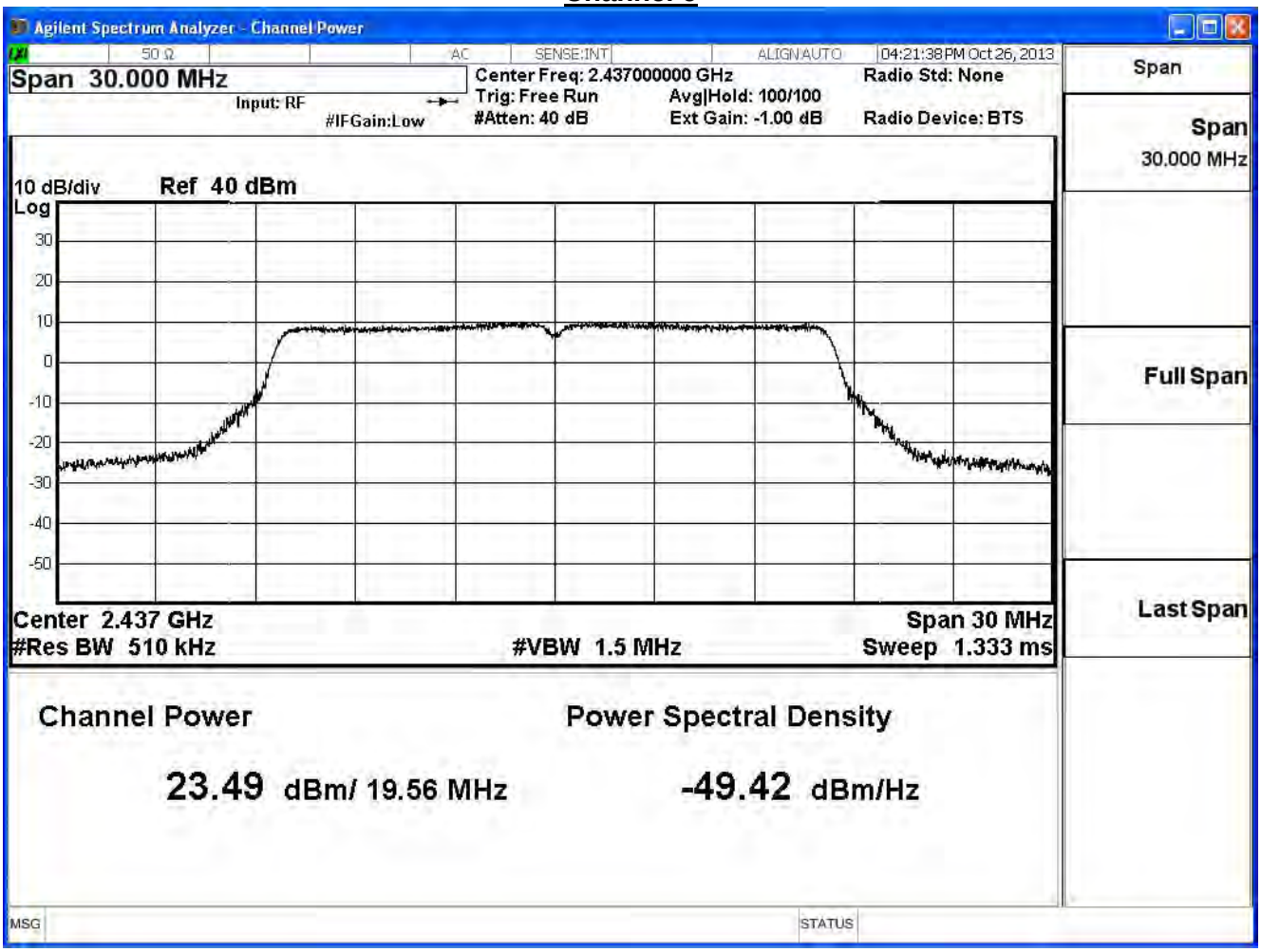
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	18.86	--	--	--	--	--	--	1 Watt=30dBm
6	2437	23.49	23.39	23.28	23.15	22.91	22.80	22.68	1 Watt=30dBm
11	2462	18.72	--	--	--	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

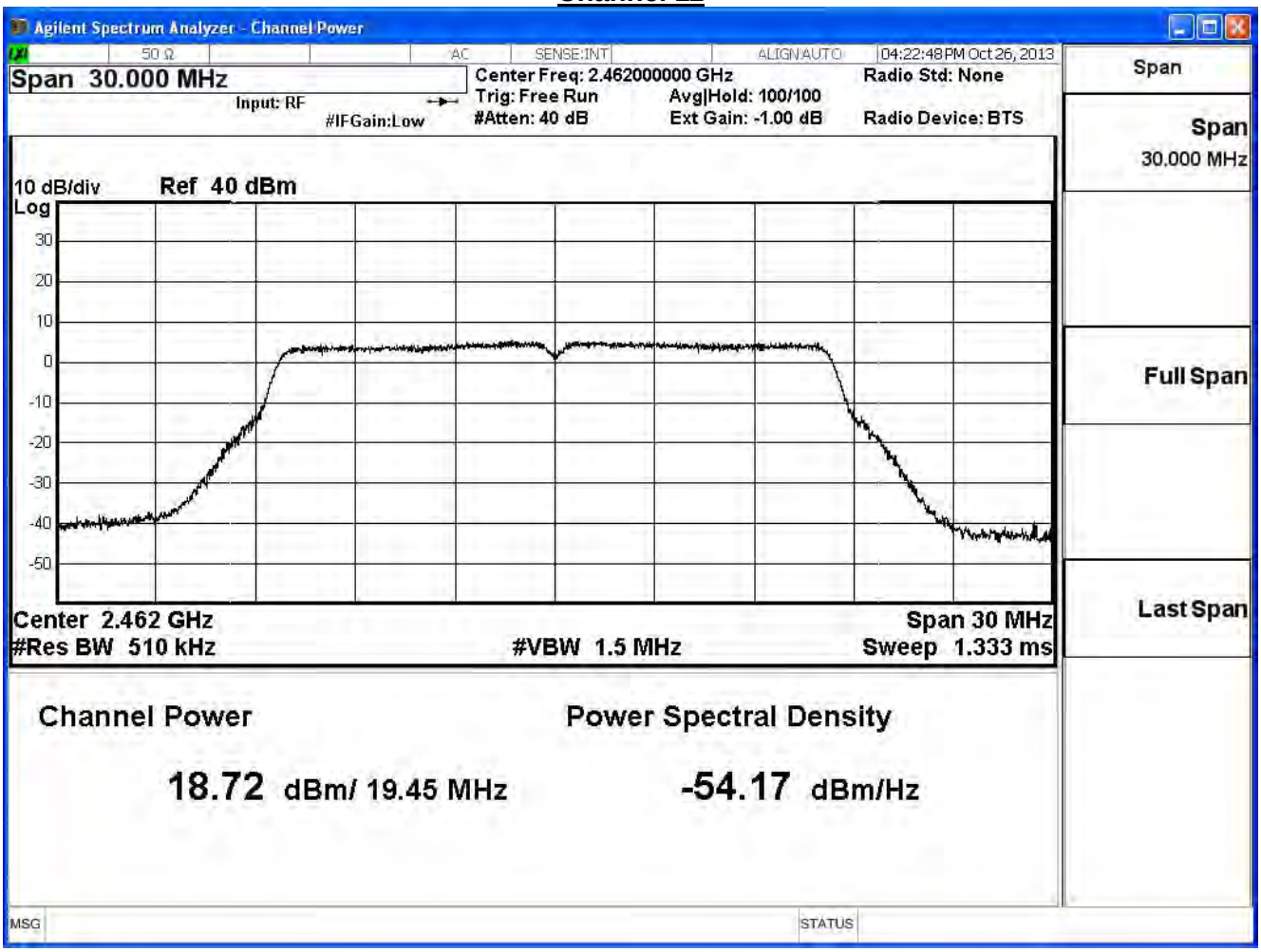
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:20:10 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.86 dBm/ 19.35 MHz
Power Spectral Density
-54.01 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:21:38 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.49 dBm/ 19.56 MHz
Power Spectral Density
-49.42 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:22:48 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.72 dBm/ 19.45 MHz
Power Spectral Density
-54.17 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11g (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	22.12	30	Pass
6	2437	26.62	30	Pass
11	2462	21.66	30	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	22.12	--	--	--	--	--	--	1 Watt=30dBm
6	2437	26.62	26.52	26.41	26.15	26.03	25.92	25.68	1 Watt=30dBm
11	2462	21.66	--	--	--	--	--	--	1 Watt=30dBm

Note: Measure Level =Reading value + cable loss

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

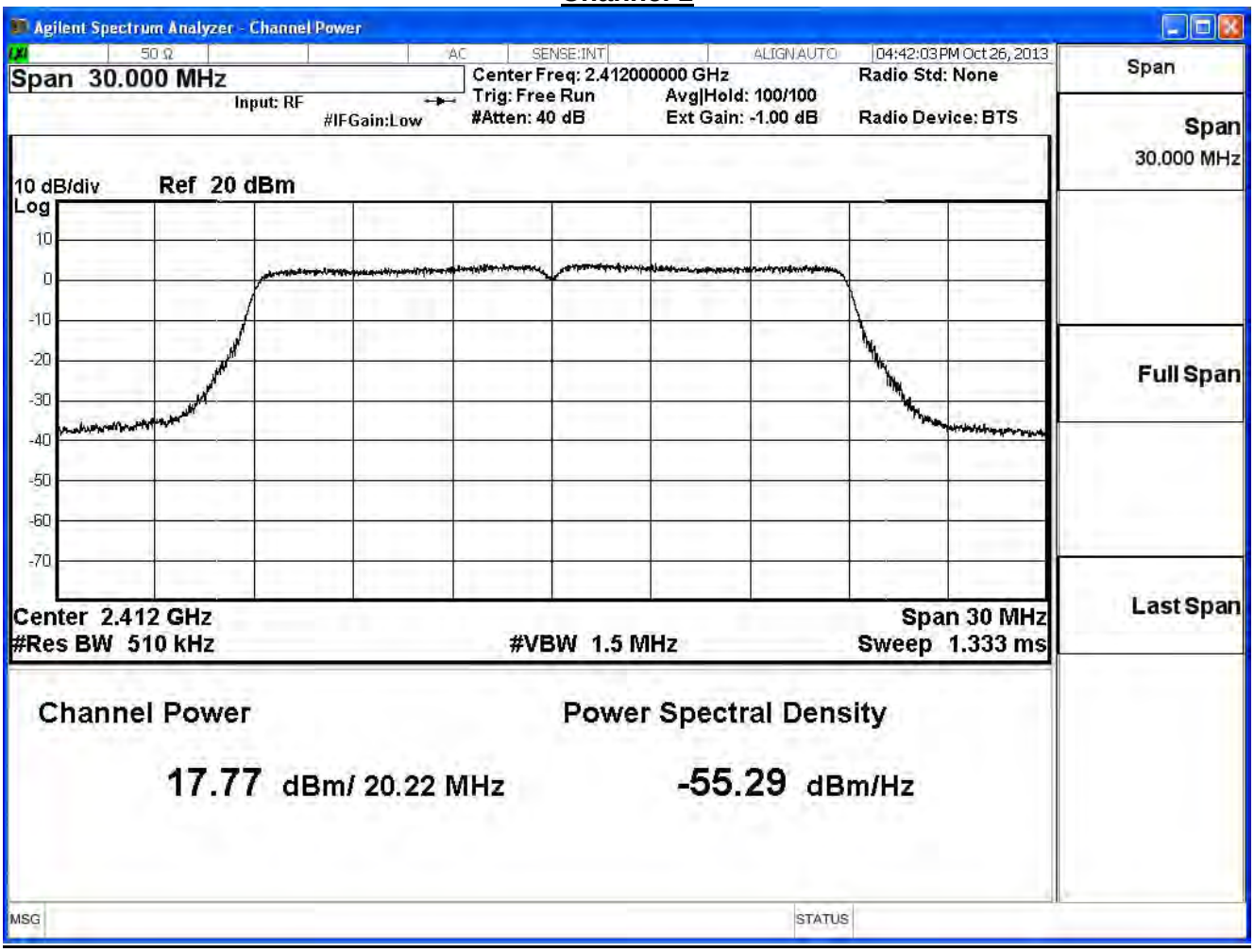
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	17.77	30	Pass
6	2437	23.75	30	Pass
11	2462	17.44	30	Pass

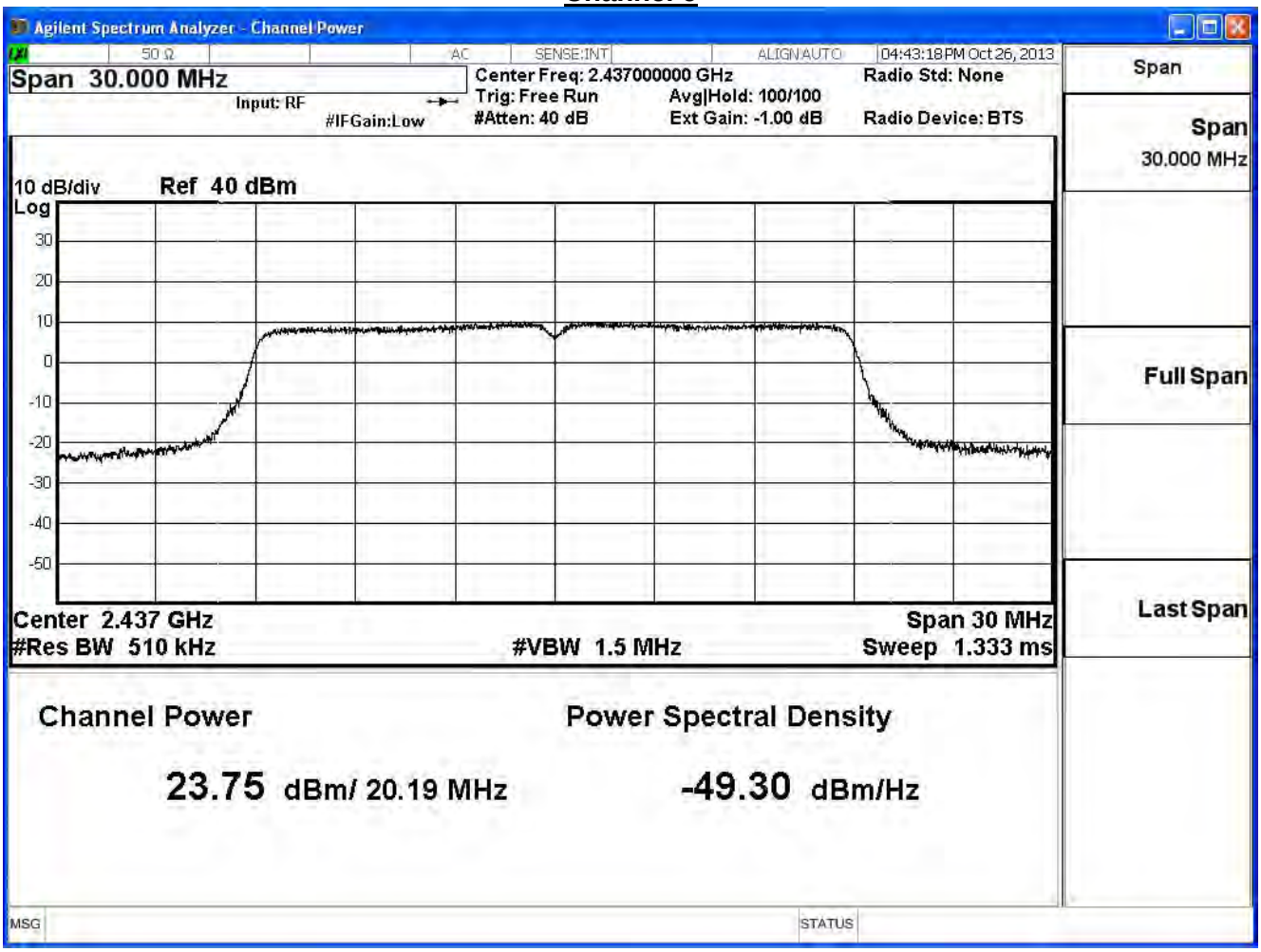
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	17.77	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	23.75	23.63	23.43	23.21	23.08	22.96	22.72	22.50	1Watt=30dBm
11	2462	17.44	--	--	--	--	--	--	--	1Watt=30dBm

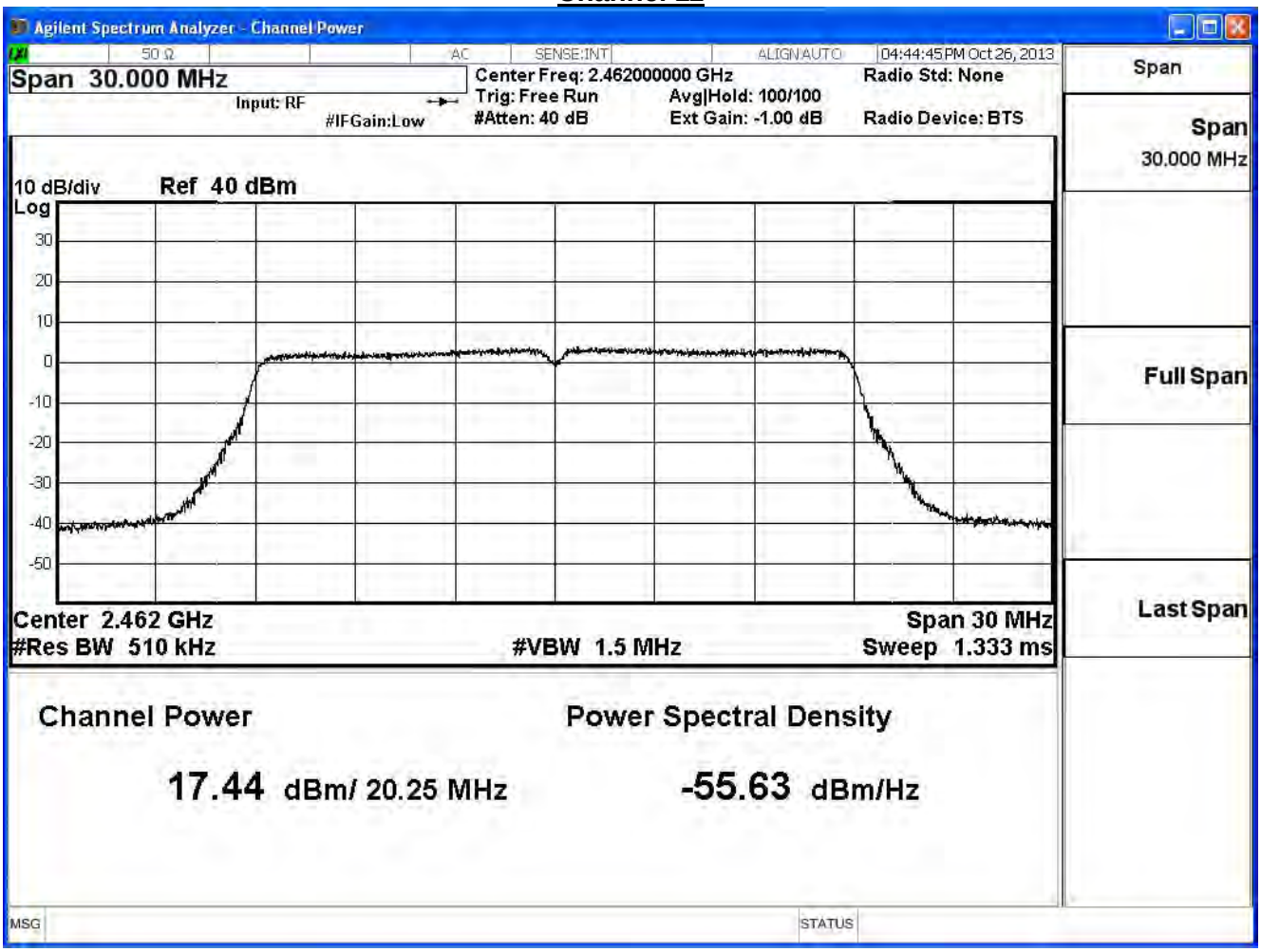
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:42:03 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.77 dBm/ 20.22 MHz
Power Spectral Density
-55.29 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:43:18 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.75 dBm/ 20.19 MHz
Power Spectral Density
-49.30 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:44:45 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.44 dBm/ 20.25 MHz
Power Spectral Density
-55.63 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

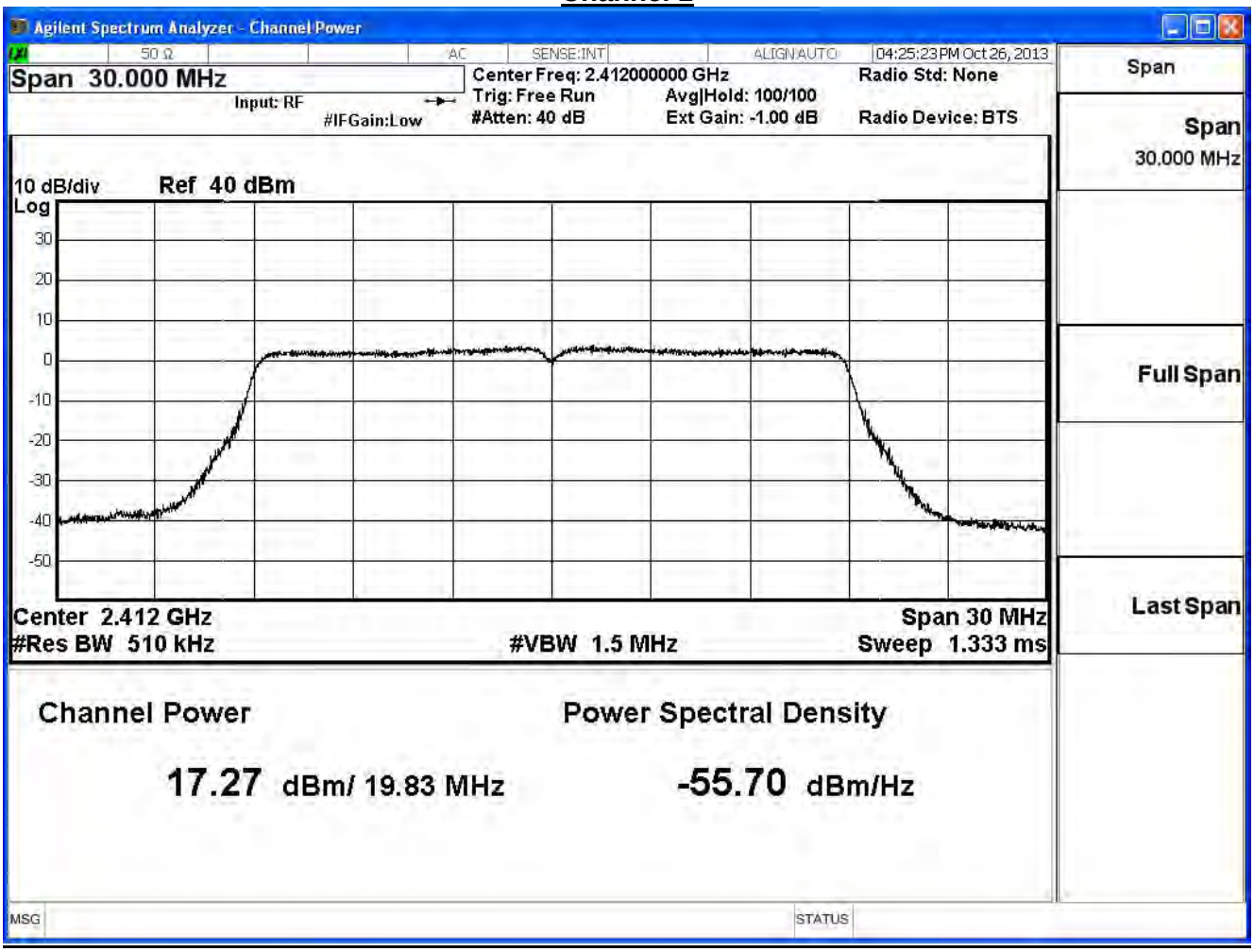
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	17.27	30	Pass
6	2437	23.51	30	Pass
11	2462	17.71	30	Pass

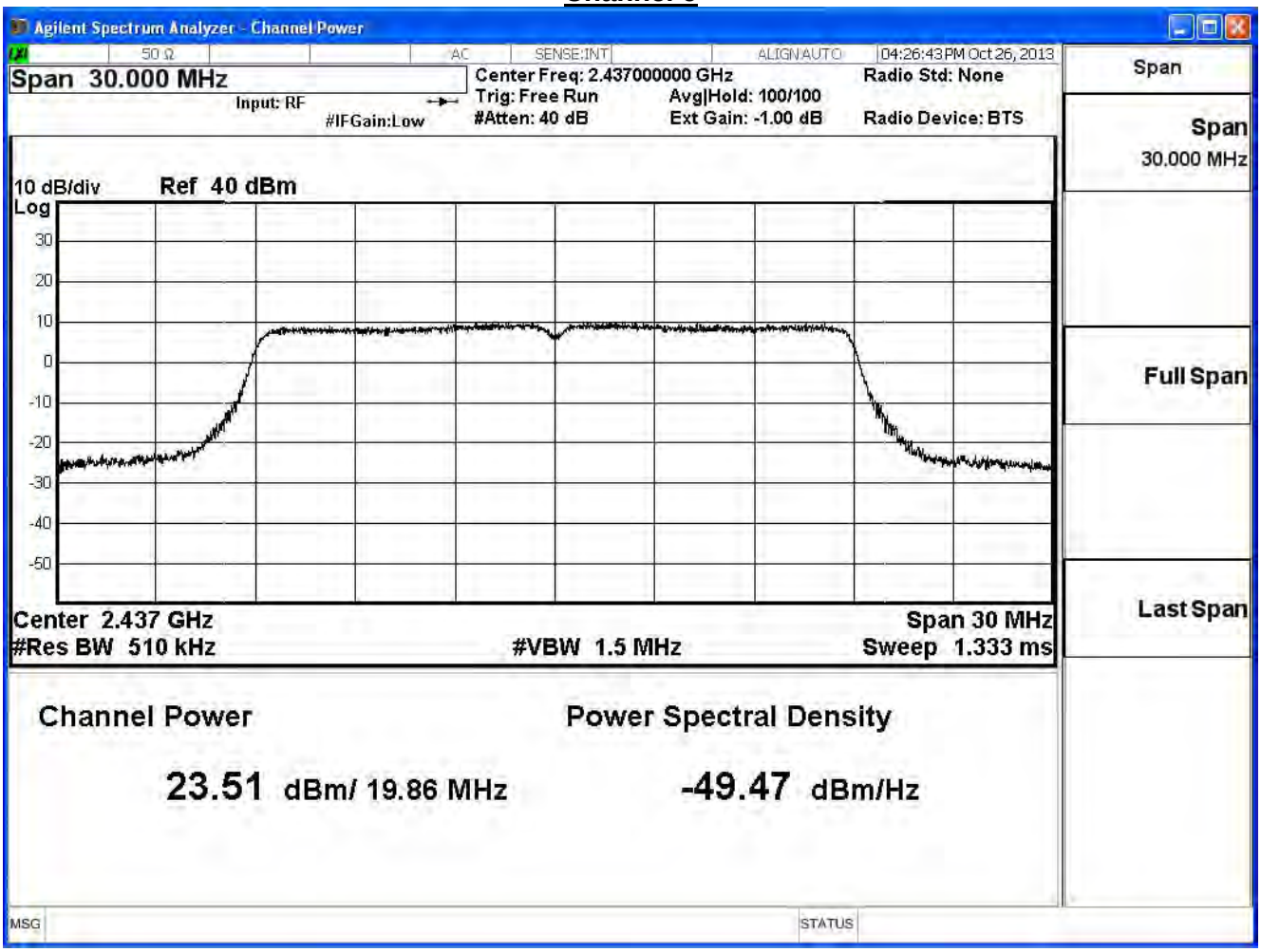
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	17.27	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	23.51	23.31	23.19	22.99	22.75	22.63	22.51	22.38	1Watt=30dBm
11	2462	17.71	--	--	--	--	--	--	--	1Watt=30dBm

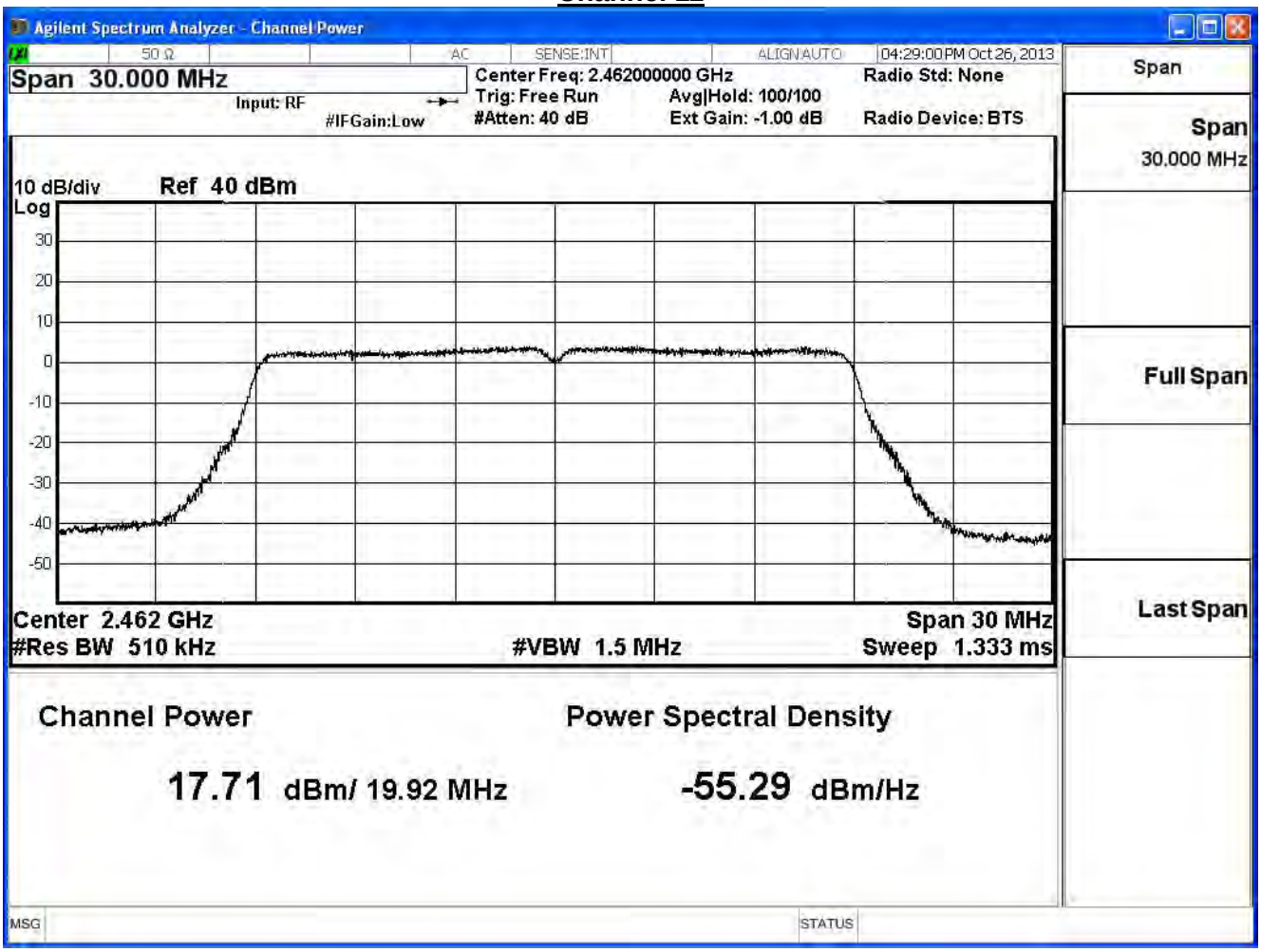
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:25:23 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.27 dBm/ 19.83 MHz
Power Spectral Density
-55.70 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:26:43 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.51 dBm/ 19.86 MHz
Power Spectral Density
-49.47 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:29:00 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.71 dBm/ 19.92 MHz
Power Spectral Density
-55.29 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.54	30	Pass
6	2437	26.64	30	Pass
11	2462	20.59	30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	20.54	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	26.64	26.48	26.37	26.22	26.10	25.91	25.67	25.49	1Watt=30dBm
11	2462	20.59	--	--	--	--	--	--	--	1Watt=30dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

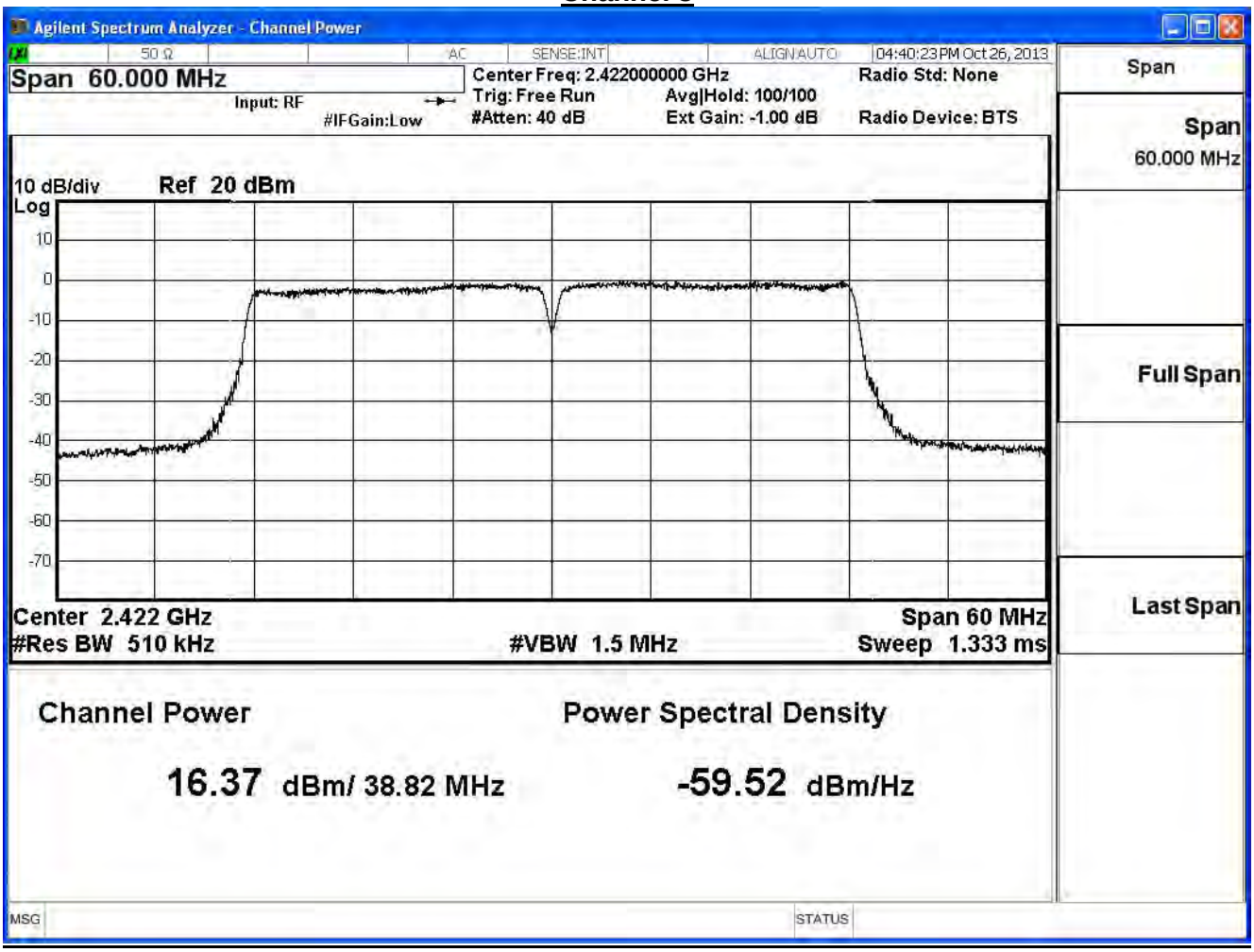
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	16.37	30	Pass
6	2437	20.03	30	Pass
9	2452	15.44	30	Pass

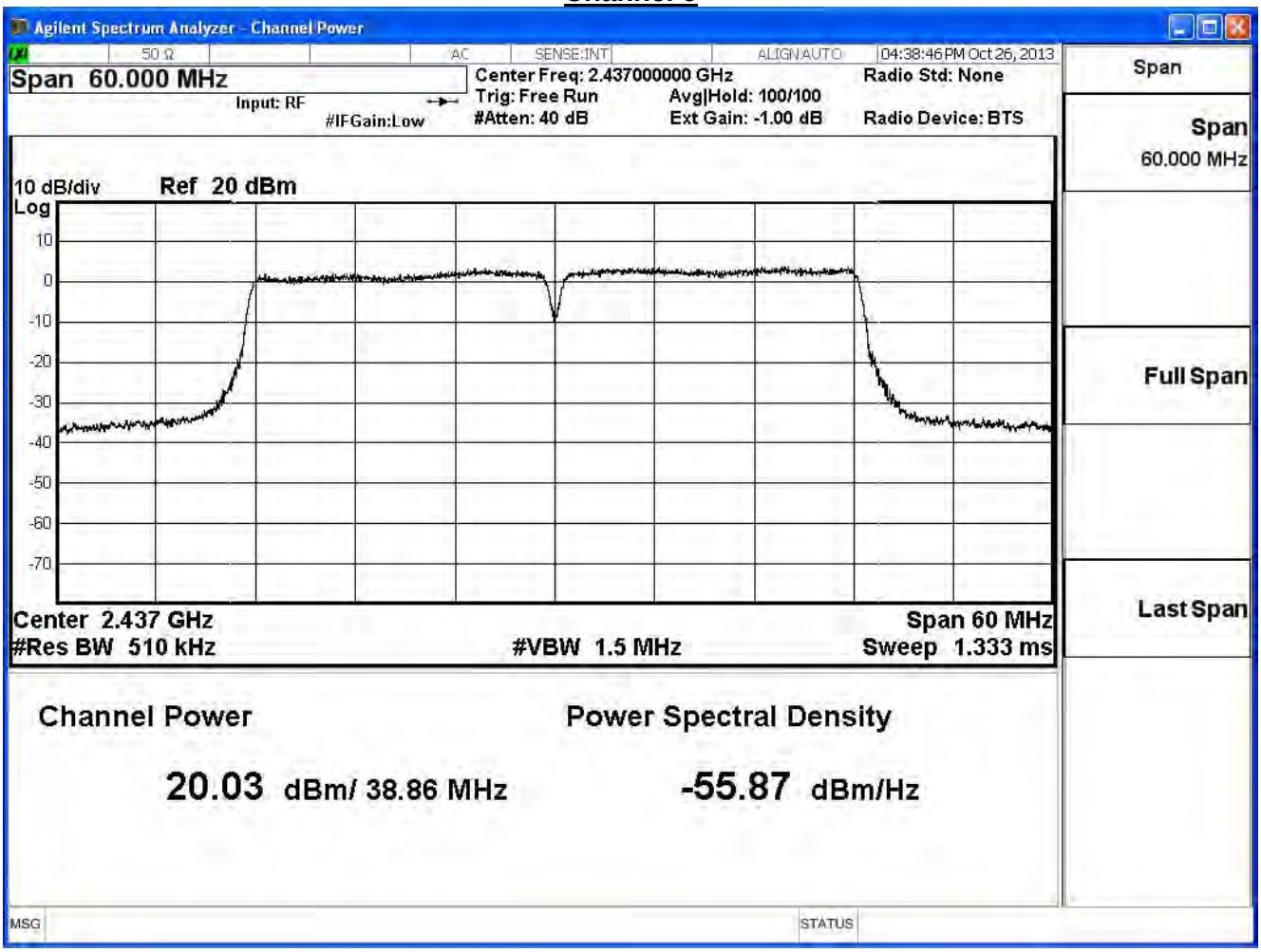
The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121	135	
3	2422	16.37	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	20.03	19.83	19.61	19.41	19.31	19.07	18.81	18.57	1Watt=30dBm
9	2452	15.44	--	--	--	--	--	--	--	1Watt=30dBm

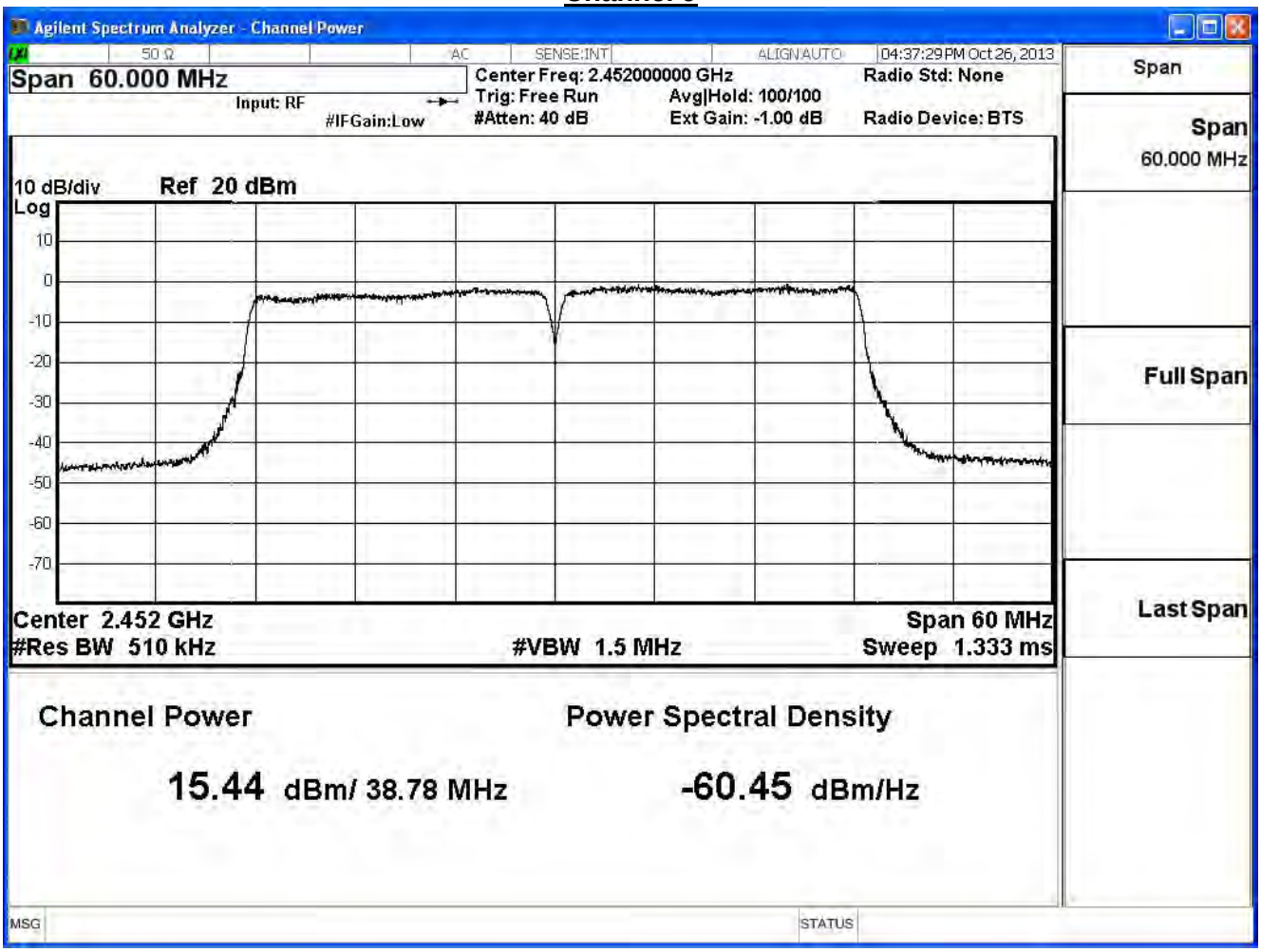
Channel 3


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:40:23 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
16.37 dBm/ 38.82 MHz
Power Spectral Density
-59.52 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:38:46 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
20.03 dBm/ 38.86 MHz
Power Spectral Density
-55.87 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 9


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:37:29 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
15.44 dBm/ 38.78 MHz
Power Spectral Density
-60.45 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

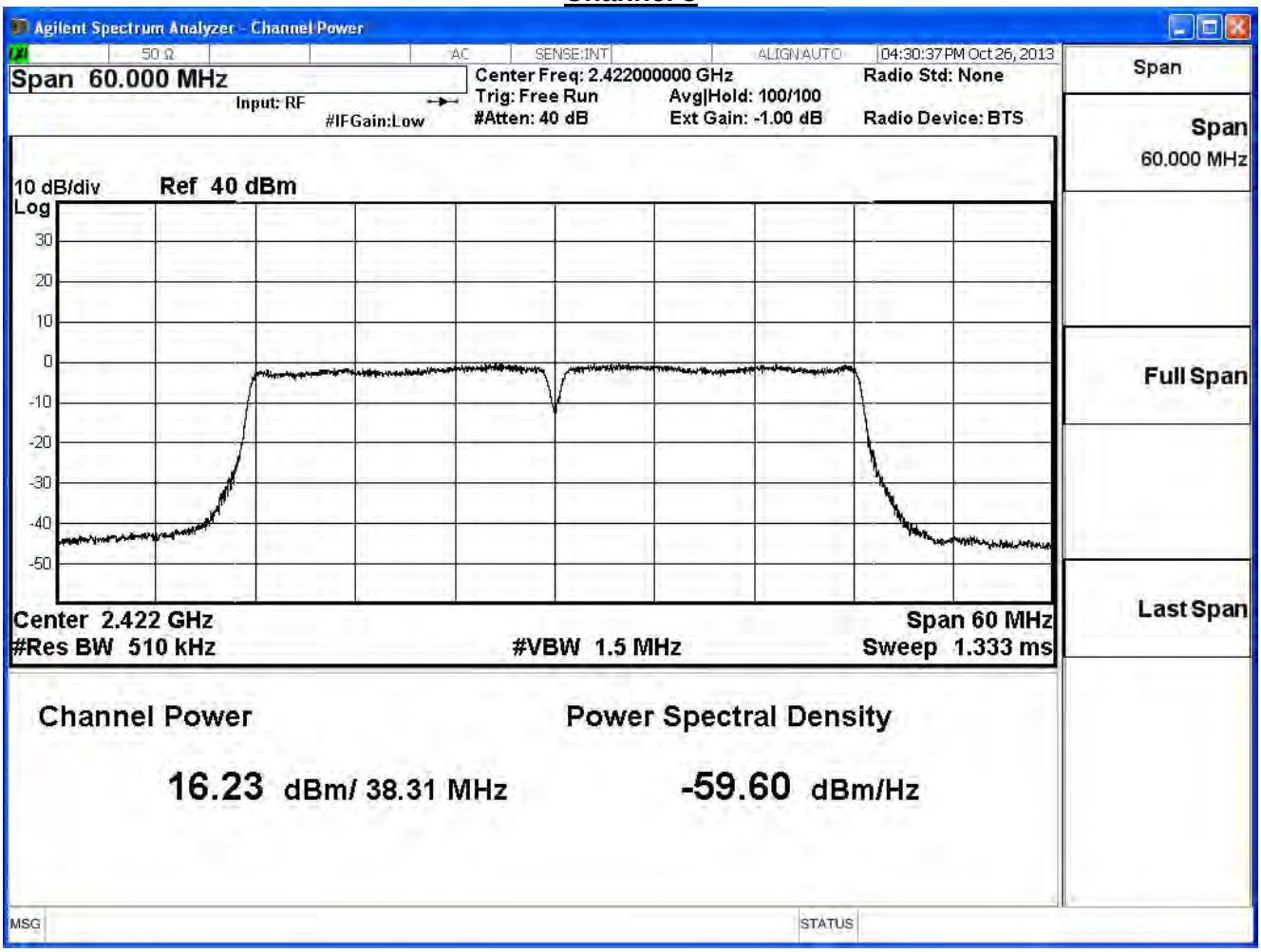
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	16.23	30	Pass
6	2437	20.07	30	Pass
9	2452	15.53	30	Pass

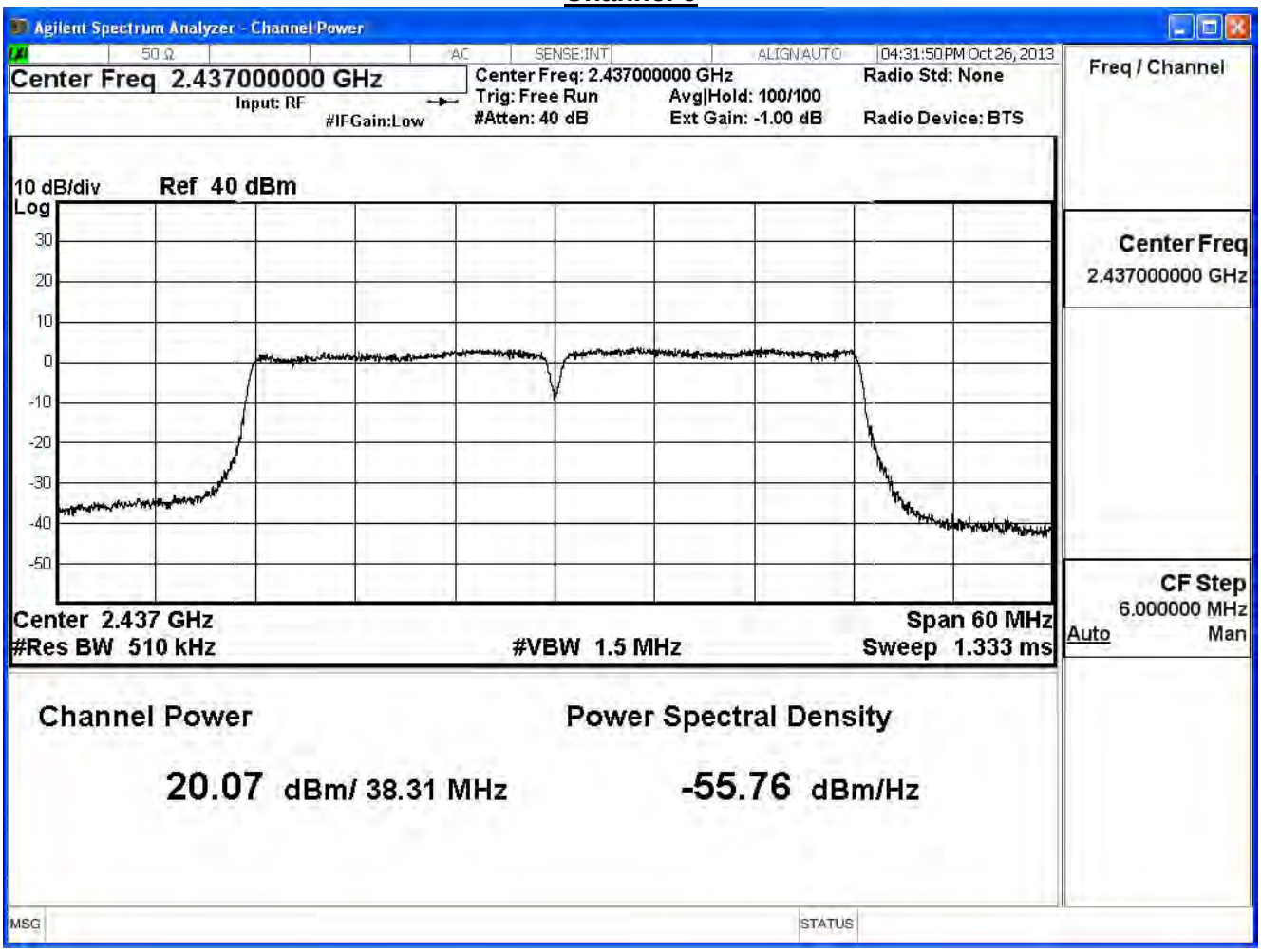
The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121	135	
3	2422	16.23	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	20.07	19.97	19.87	19.74	19.64	19.52	19.40	19.16	1Watt=30dBm
9	2452	15.53	--	--	--	--	--	--	--	1Watt=30dBm

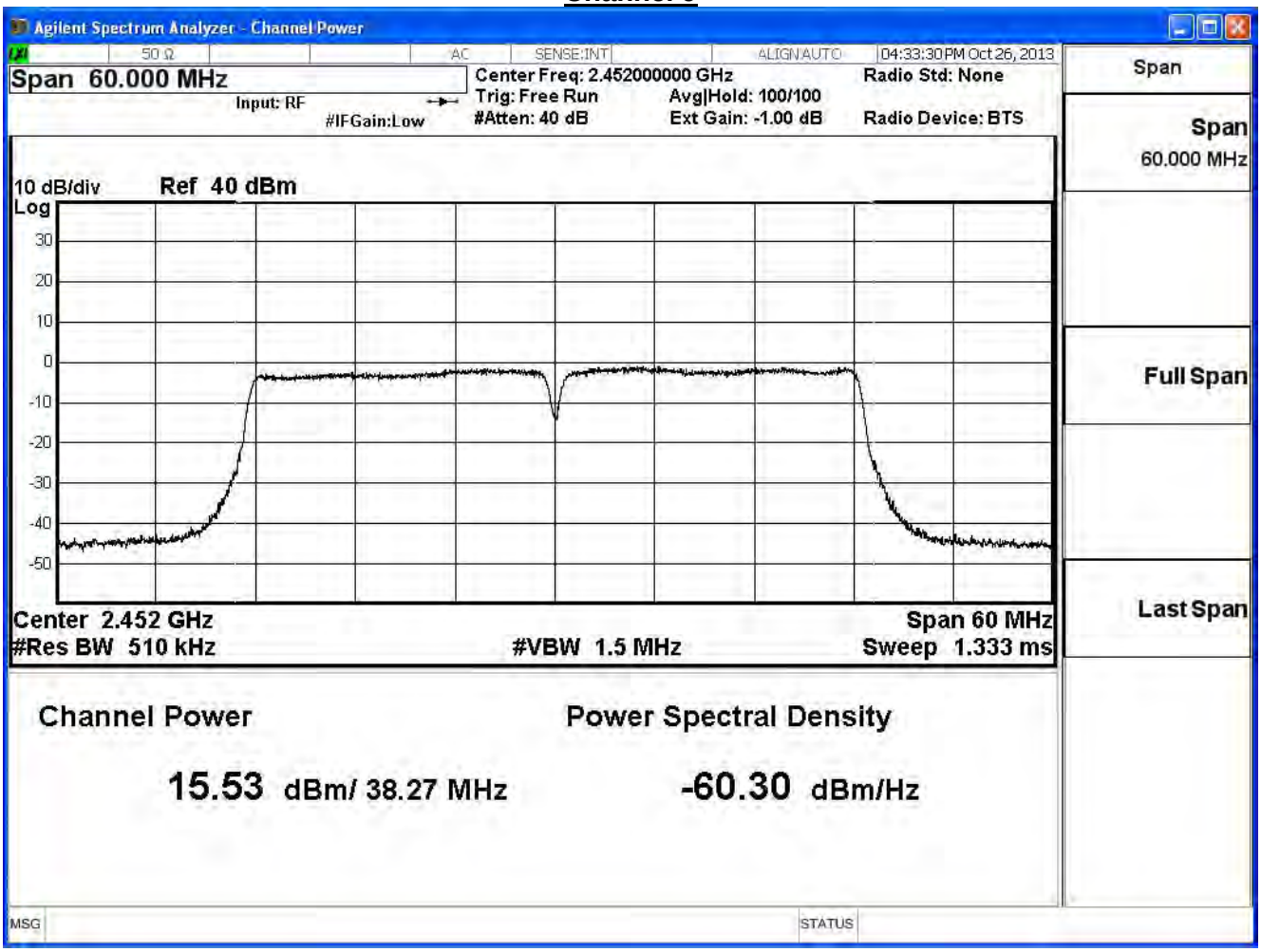
Channel 3


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:30:37 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
16.23 dBm/ 38.31 MHz
Power Spectral Density
-59.60 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:31:50 PM Oct 26, 2013
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 40 dB
Avg|Hold: 100/100
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
20.07 dBm/ 38.31 MHz
Power Spectral Density
-55.76 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:33:30 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
15.53 dBm/ 38.27 MHz
Power Spectral Density
-60.30 dBm/Hz
Span
Span
60.000 MHz
Full Span
Last Span
MSG
STATUS

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/10/26	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	19.31	30	Pass
6	2437	23.06	30	Pass
9	2452	18.50	30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121	135	
3	2422	19.31	--	--	--	--	--	--	--	1Watt=30dBm
6	2437	23.06	22.91	22.75	22.59	22.49	22.31	22.13	21.89	1Watt=30dBm
9	2452	18.50	--	--	--	--	--	--	--	1Watt=30dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

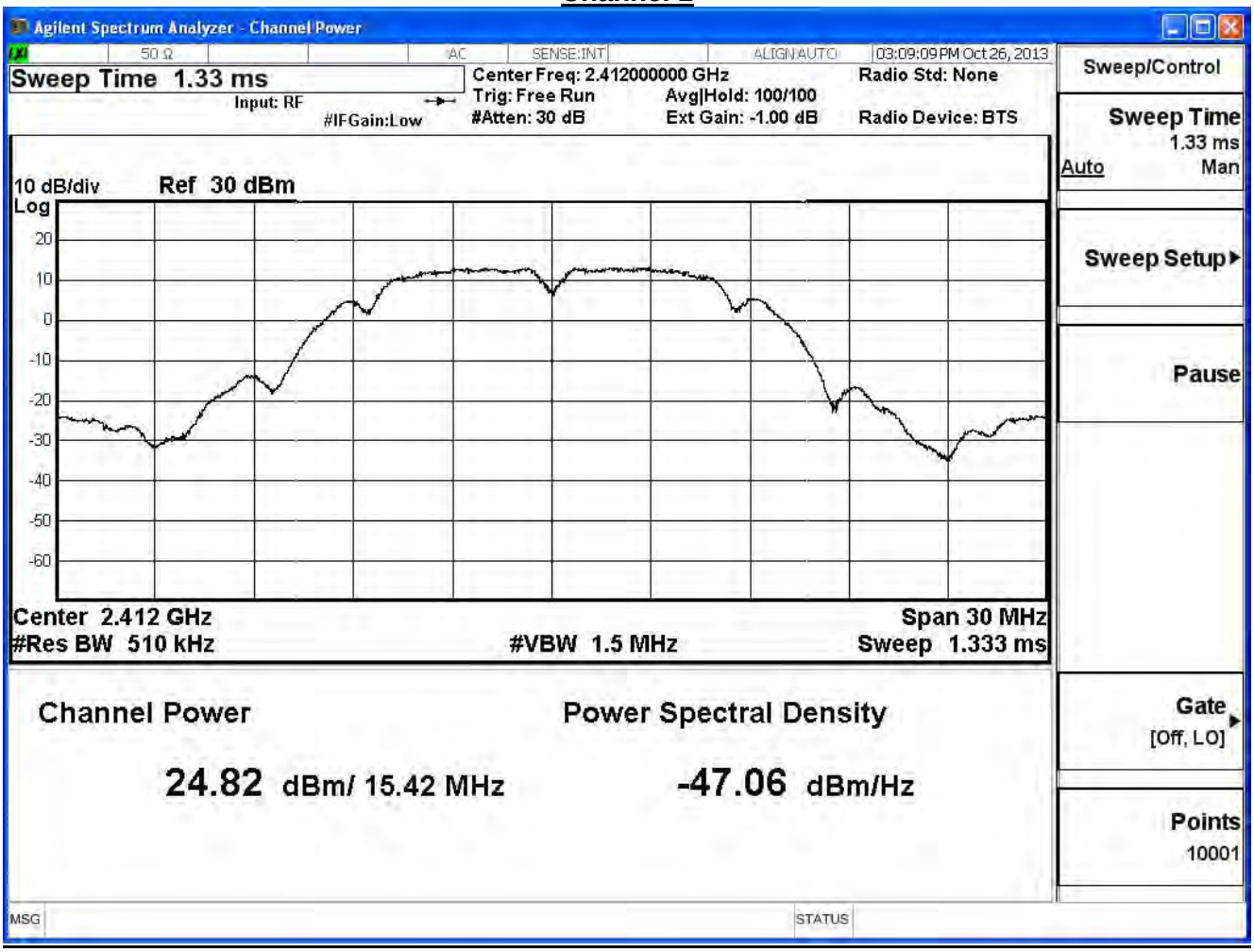
IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	24.82	30	Pass
6	2437	24.85	30	Pass
11	2462	24.58	30	Pass

The worst emission of data rate is 1Mbps.

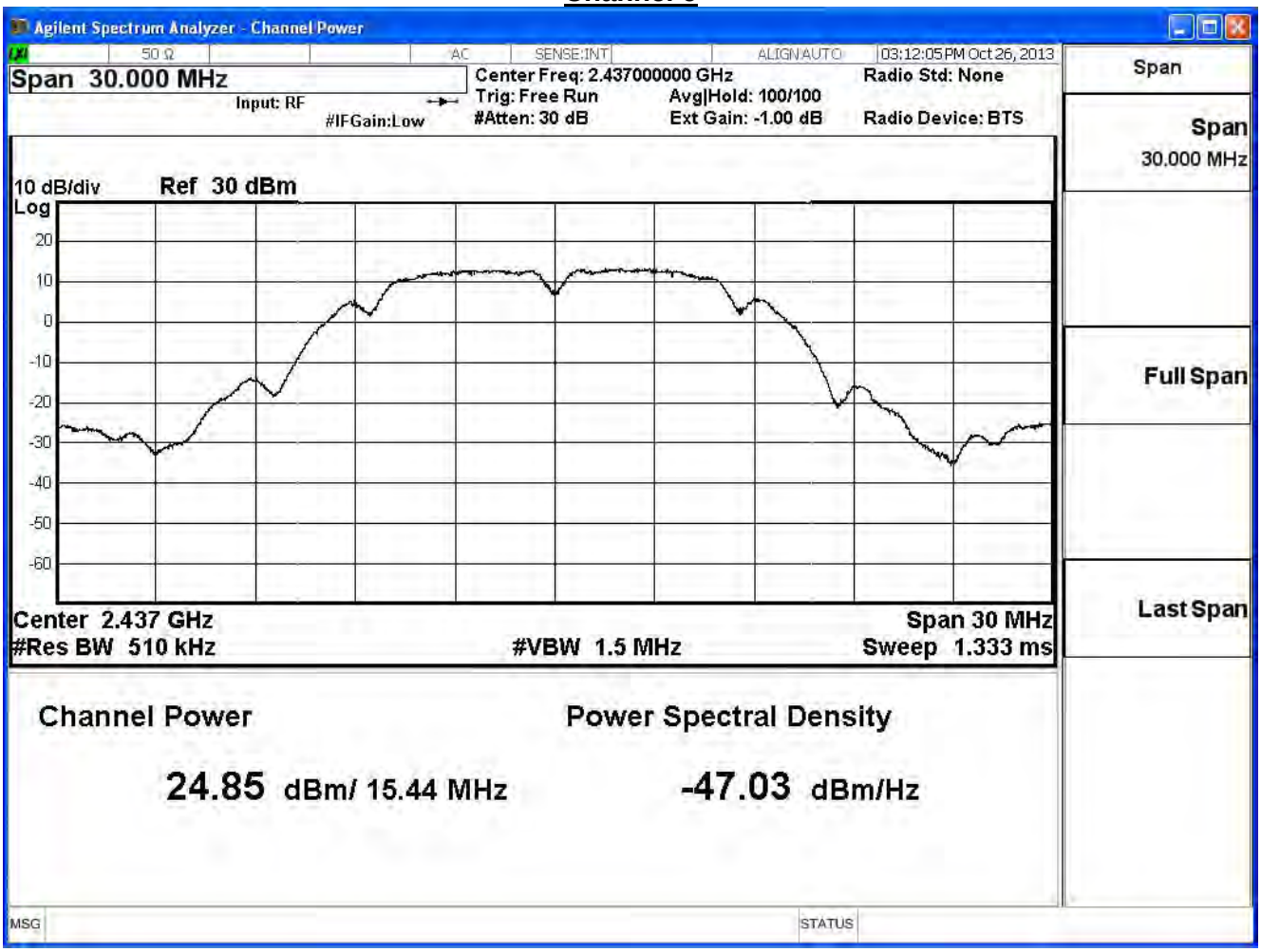
Peak Power Output Value (dBm)						
Channel No.	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	24.82	--	--	--	1Watt=30dBm
6	2437	24.85	24.75	24.63	24.41	1Watt=30dBm
11	2462	24.58	--	--	--	1Watt=30dBm

Note: Measure Level =Reading value + cable loss

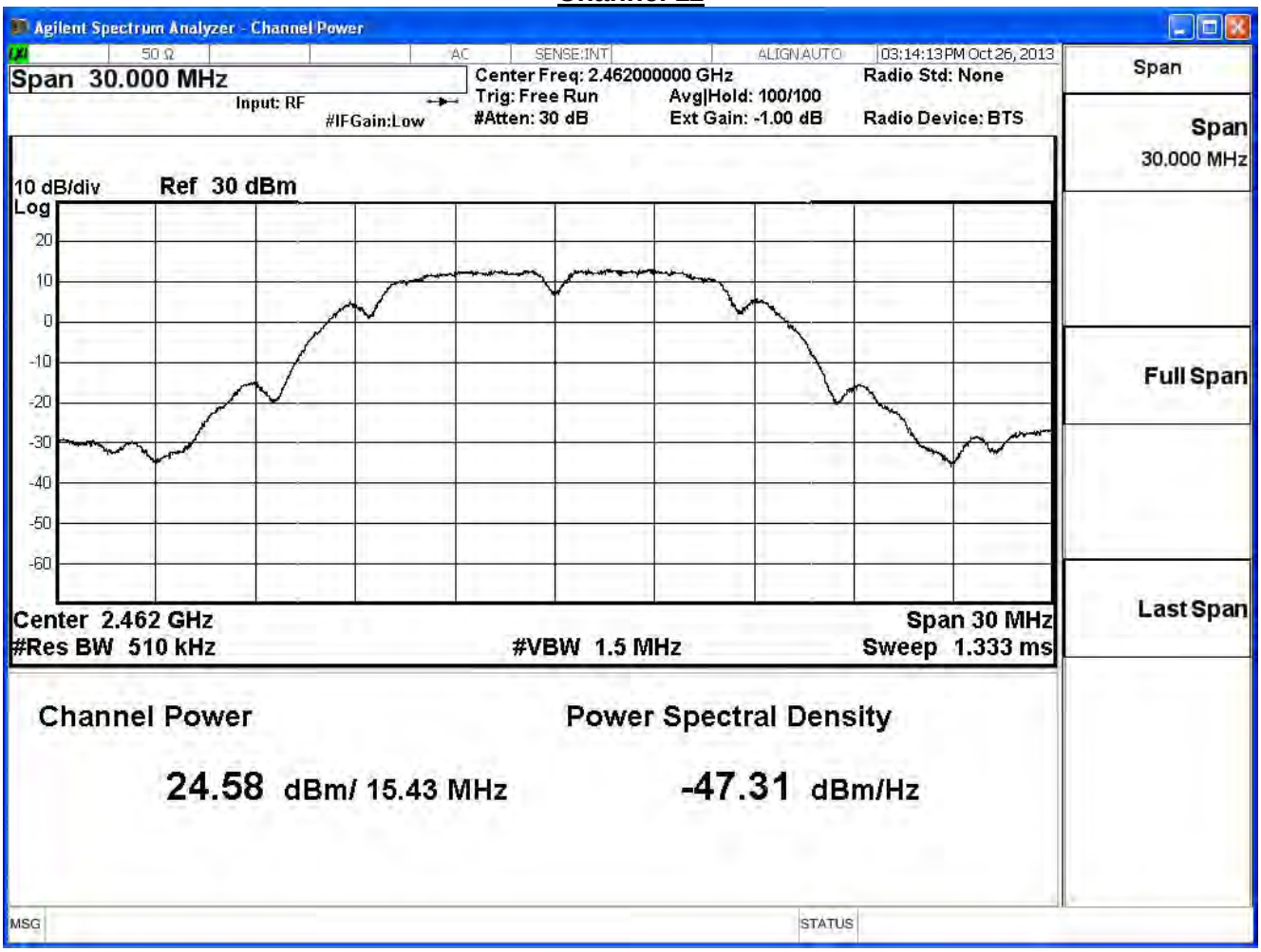
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:09:09 PM Oct 26, 2013
Sweep Time 1.33 ms
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.82 dBm/ 15.42 MHz
Power Spectral Density
-47.06 dBm/Hz
Sweep/Control
Sweep Time
1.33 ms
Auto
Man
Sweep Setup
Pause
Gate
[Off, LO]
Points
10001
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:12:05 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.85 dBm/ 15.44 MHz
Power Spectral Density
-47.03 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:14:13 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.58 dBm/ 15.43 MHz
Power Spectral Density
-47.31 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

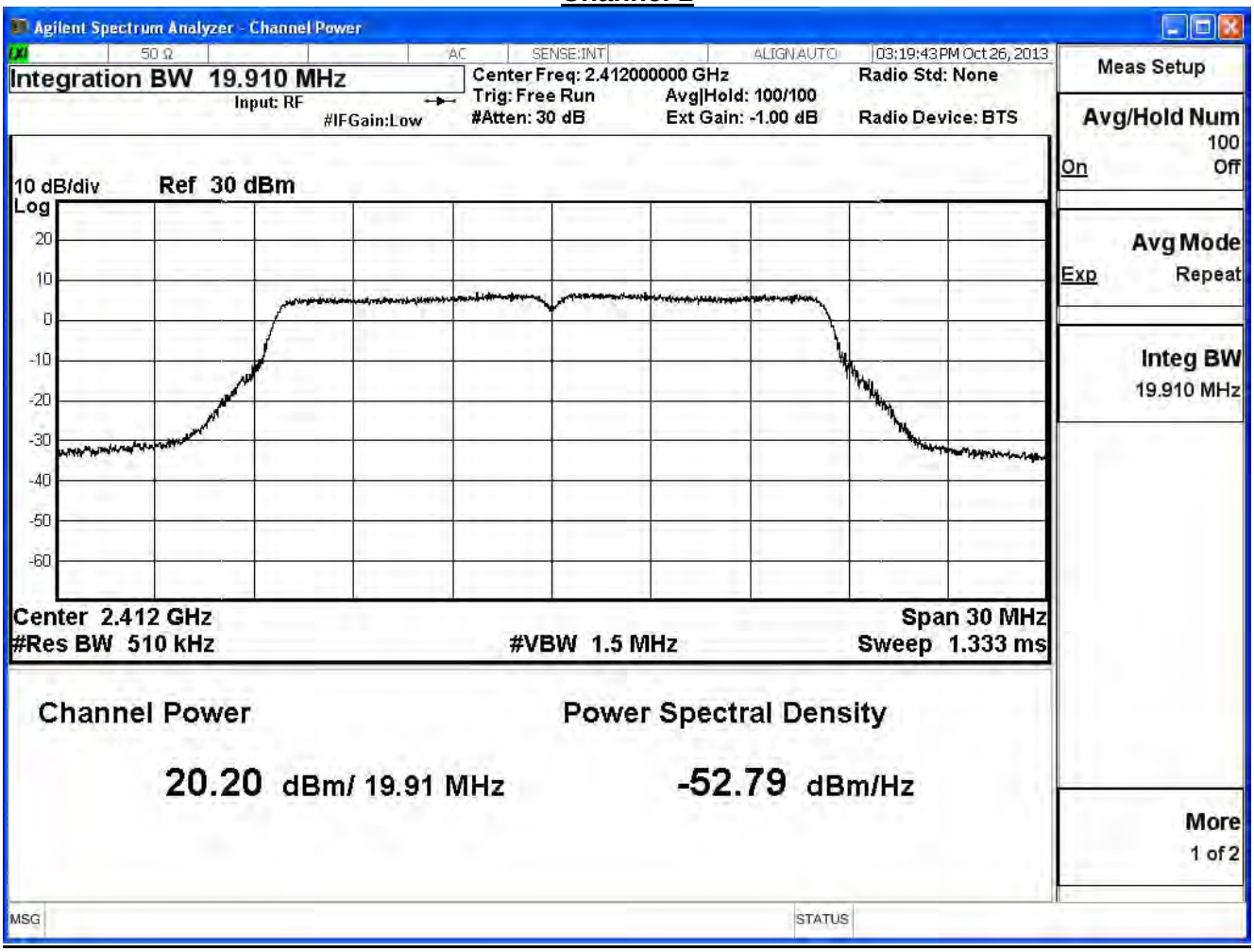
IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	20.20	28.99	Pass
6	2437	24.78	28.99	Pass
11	2462	24.40	28.99	Pass

The worst emission of data rate is 6Mbps.

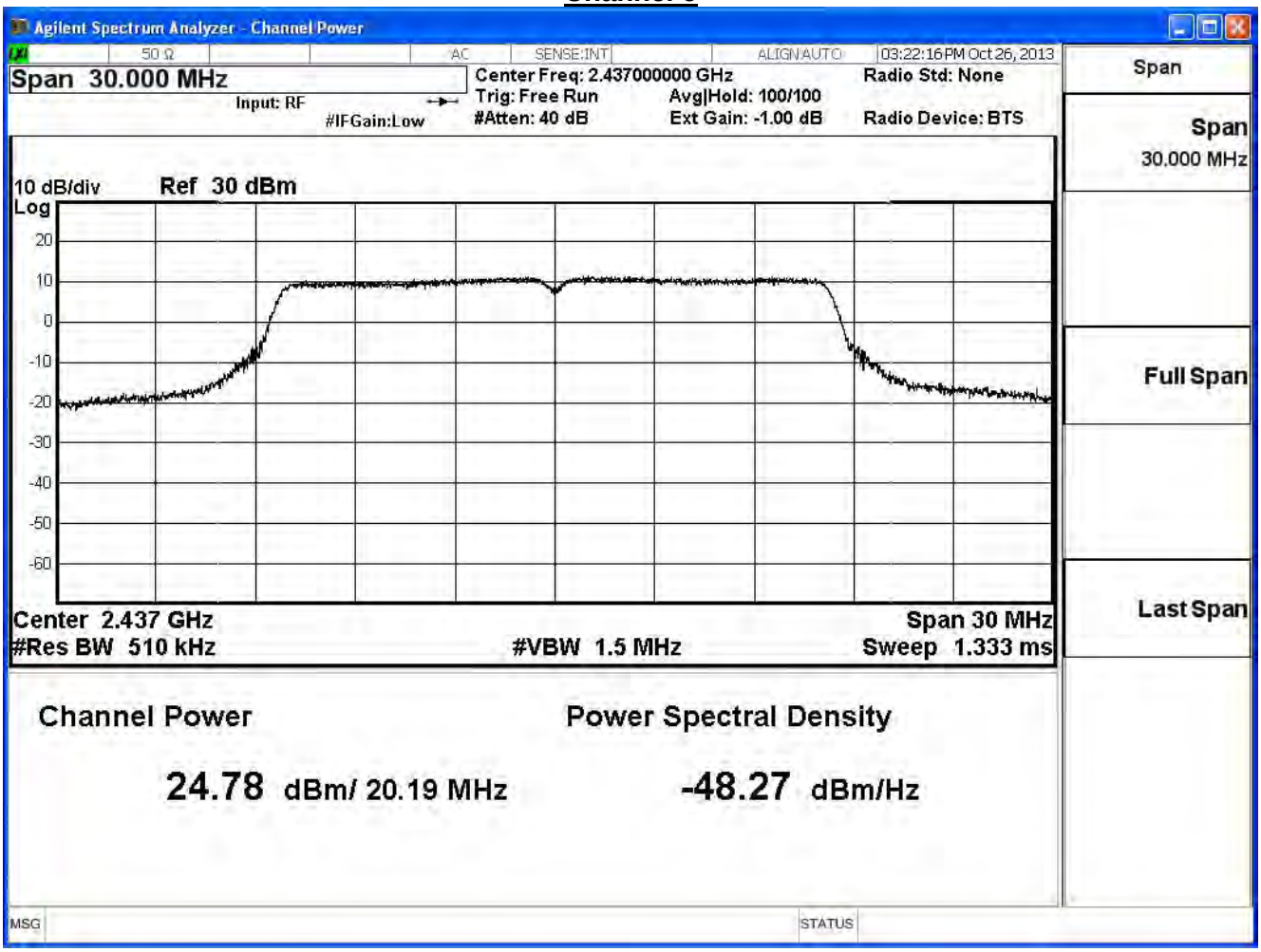
Peak Power Output Value(dBm)									
Channel No.	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	20.20	--	--	--	--	--	--	28.99
6	2437	24.78	24.58	24.36	24.23	23.99	23.88	23.76	28.99
11	2462	24.40	--	--	--	--	--	--	28.99

Note: Measure Level =Reading value + cable loss
Directional antenna : Beamforming Gian+Max Gain=7.01dBi
Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

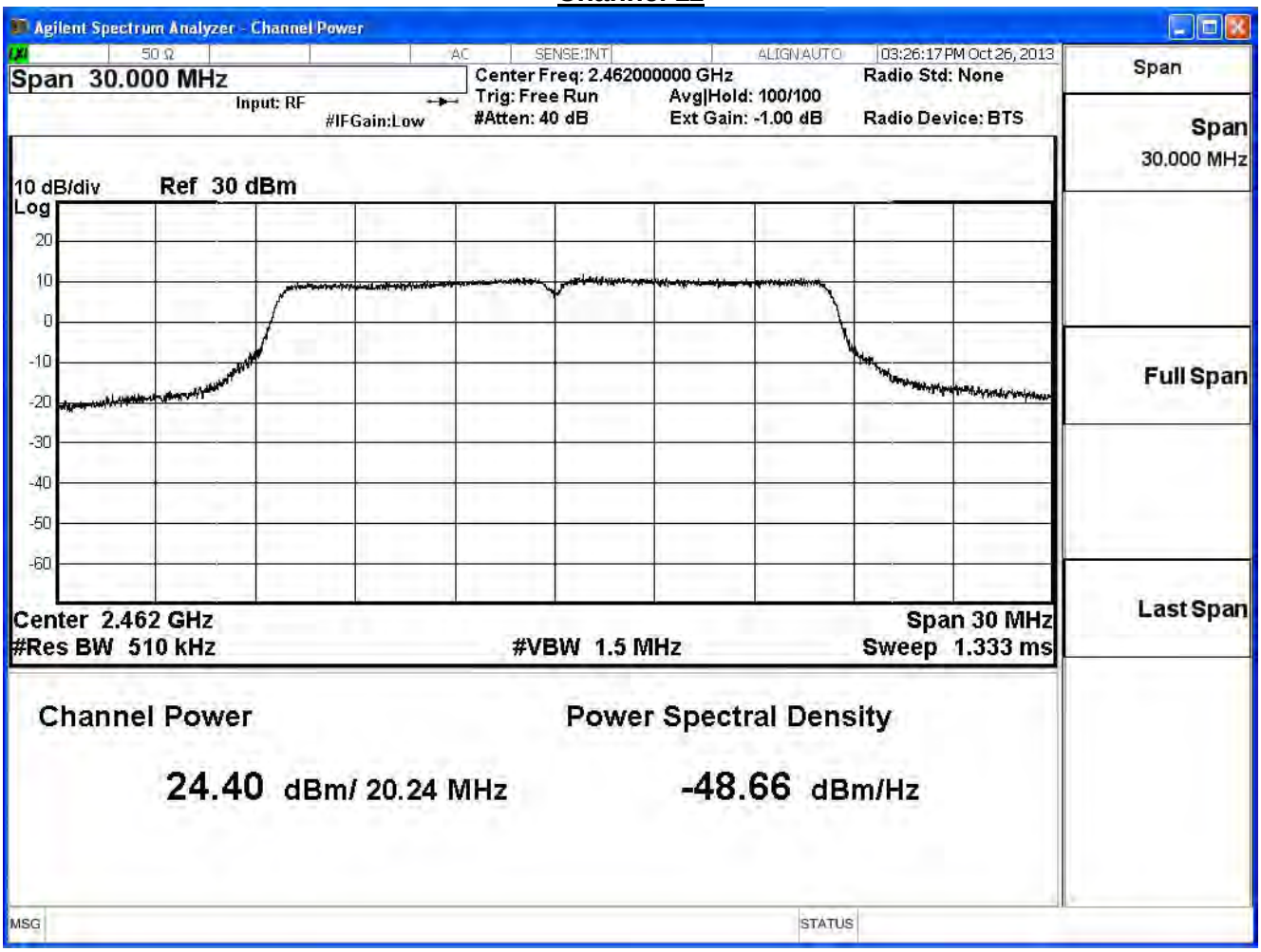
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:19:43 PM Oct 26, 2013
Integration BW 19.910 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
19.910 MHz
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
20.20 dBm/ 19.91 MHz
Power Spectral Density
-52.79 dBm/Hz
More
1 of 2
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:22:16 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.78 dBm/ 20.19 MHz
Power Spectral Density
-48.27 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:26:17 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.40 dBm/ 20.24 MHz
Power Spectral Density
-48.66 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

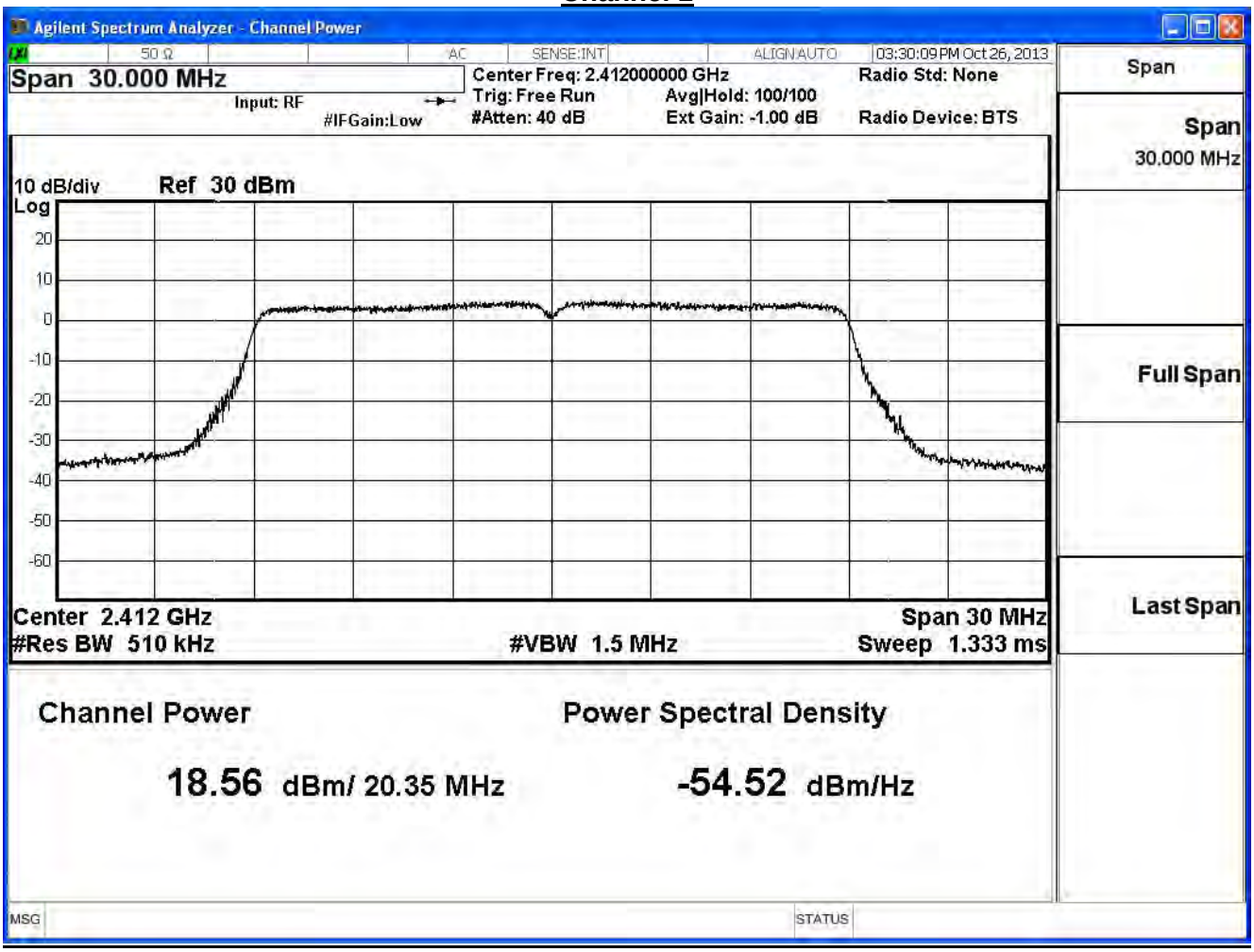
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.56	28.99	Pass
6	2437	24.16	28.99	Pass
11	2462	17.13	28.99	Pass

The worst emission of data rate is 13 Mbps.

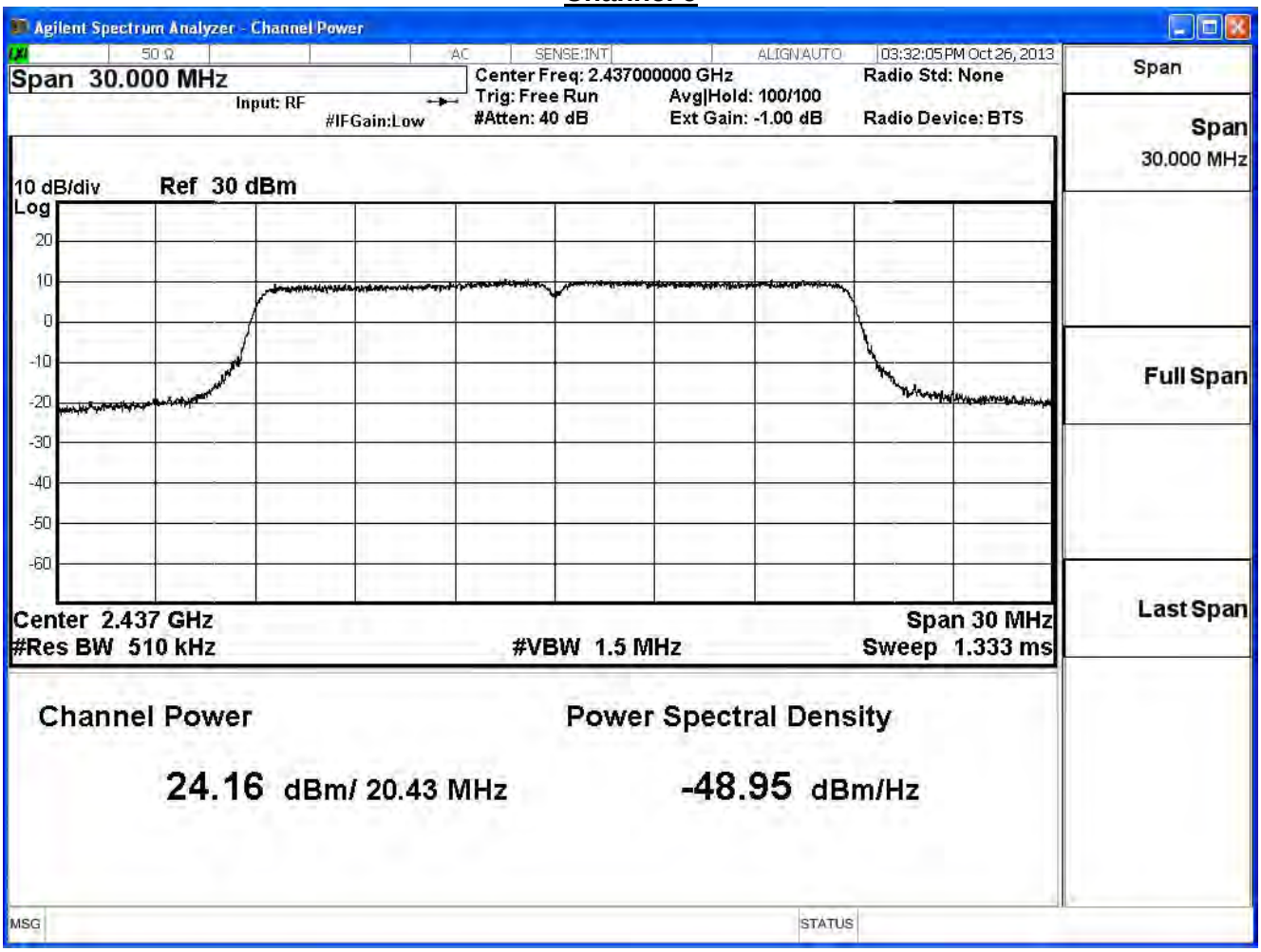
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	18.56	--	--	--	--	--	--	--	28.99
6	2437	24.16	24.04	23.84	23.73	23.47	23.35	23.11	22.89	28.99
11	2462	17.13	--	--	--	--	--	--	--	28.99

Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi
Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

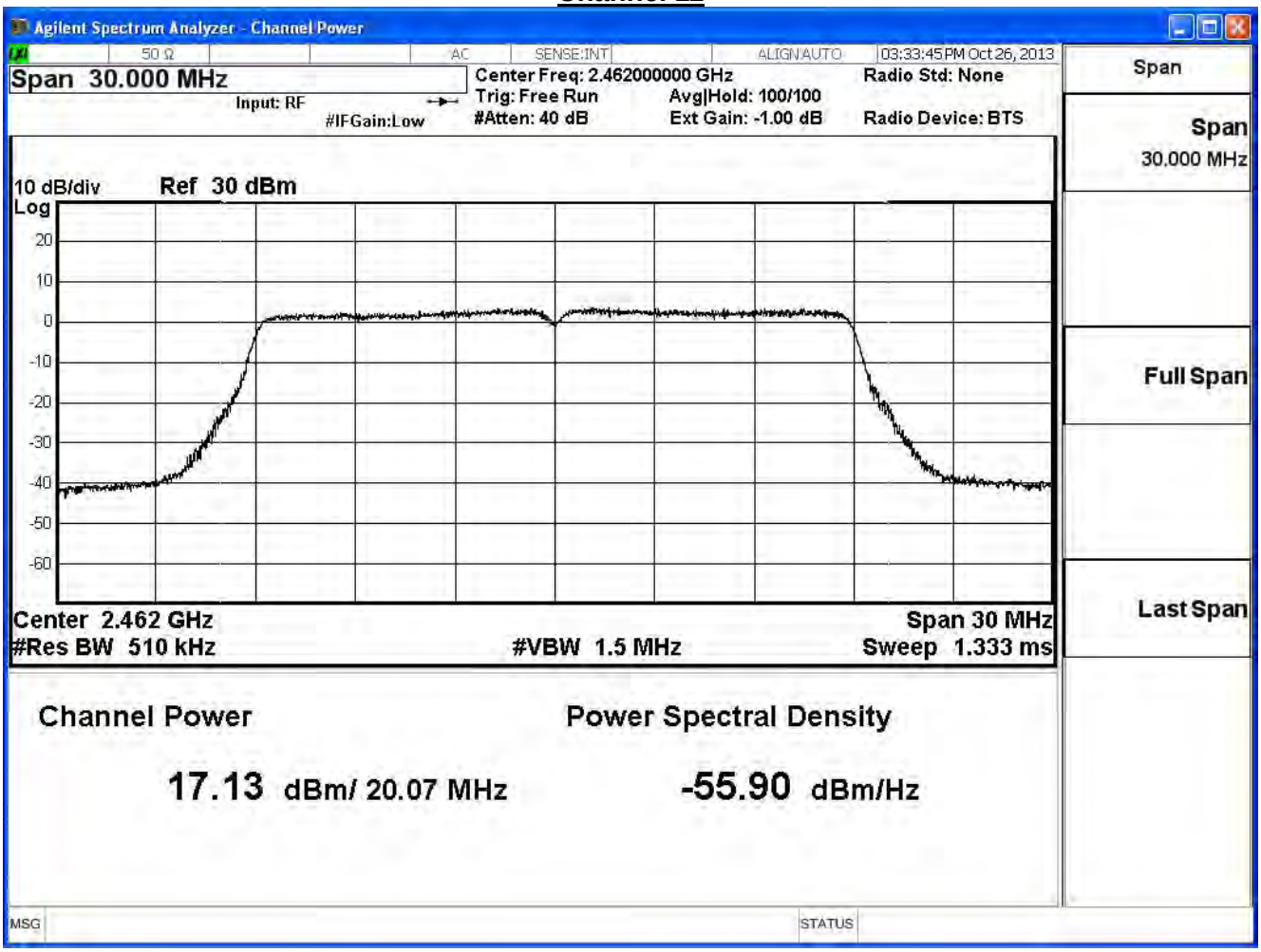
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:30:09 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.56 dBm/ 20.35 MHz
Power Spectral Density
-54.52 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:32:05 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
24.16 dBm/ 20.43 MHz
Power Spectral Density
-48.95 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:33:45 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.13 dBm/ 20.07 MHz
Power Spectral Density
-55.90 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.46	28.99	Pass
6	2437	23.95	28.99	Pass
11	2462	17.60	28.99	Pass

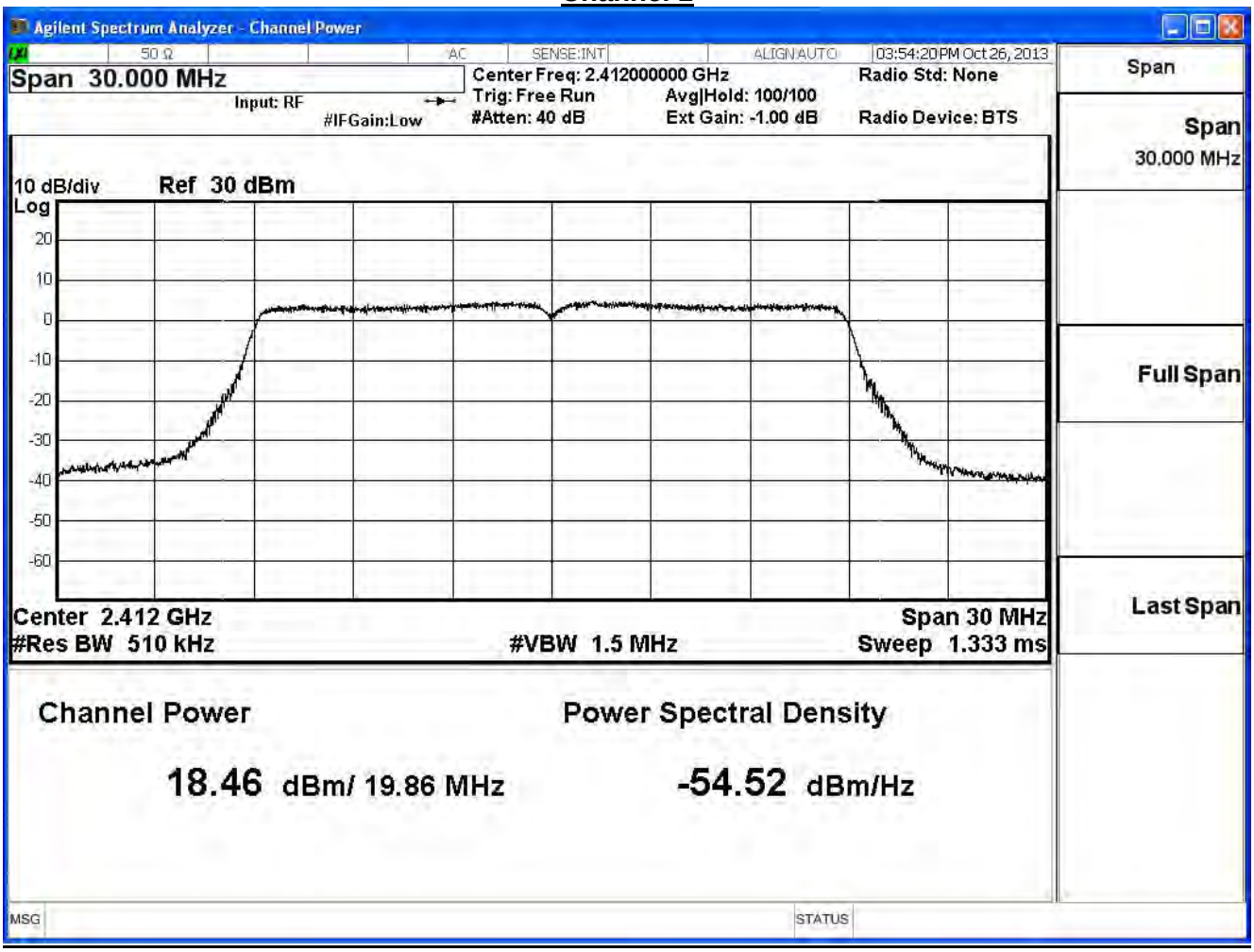
The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	18.46	--	--	--	--	--	--	--	28.99
6	2437	23.95	23.75	23.63	23.43	23.19	22.95	22.71	22.58	28.99
11	2462	17.60	--	--	--	--	--	--	--	28.99

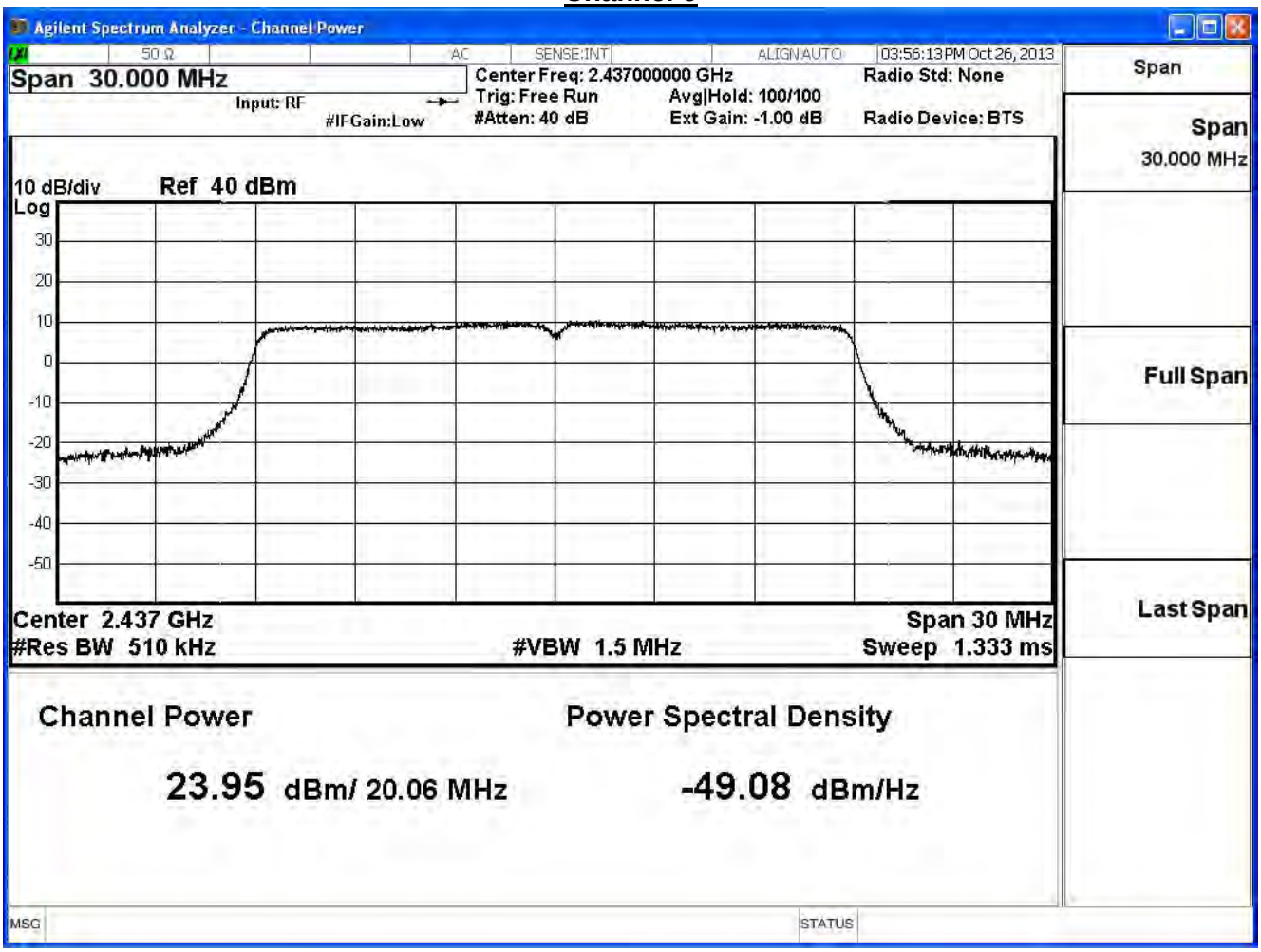
Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi

Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

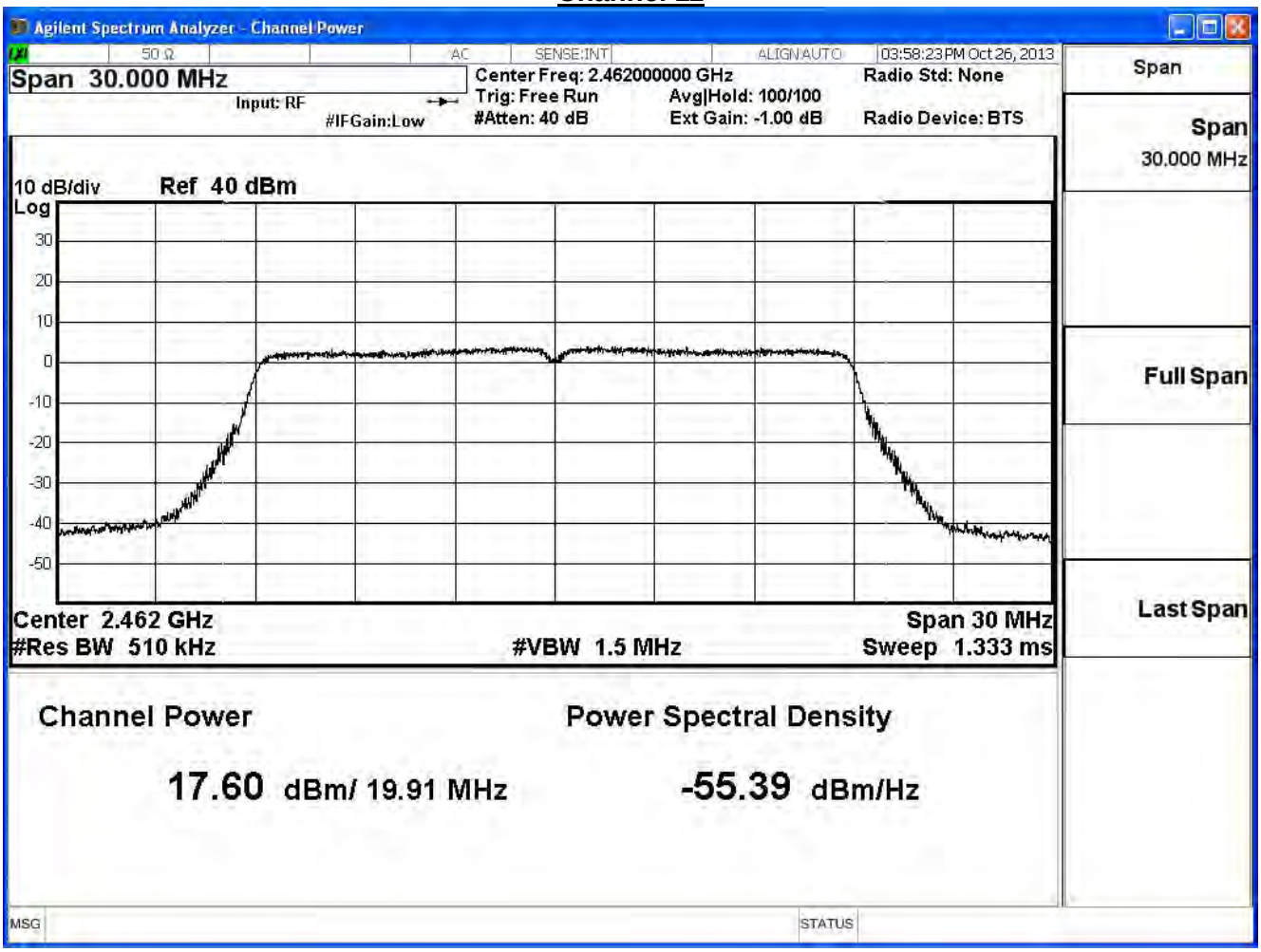
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:54:20 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.46 dBm/ 19.86 MHz
Power Spectral Density
-54.52 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:56:13 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
23.95 dBm/ 20.06 MHz
Power Spectral Density
-49.08 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:58:23 PM Oct 26, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
17.60 dBm/ 19.91 MHz
Power Spectral Density
-55.39 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.52	28.99	Pass
6	2437	27.07	28.99	Pass
11	2462	20.38	28.99	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
1	2412	21.52	--	--	--	--	--	--	--	28.99
6	2437	27.07	26.91	26.75	26.59	26.34	26.16	25.92	25.75	28.99
11	2462	20.38	--	--	--	--	--	--	--	28.99

Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi

Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

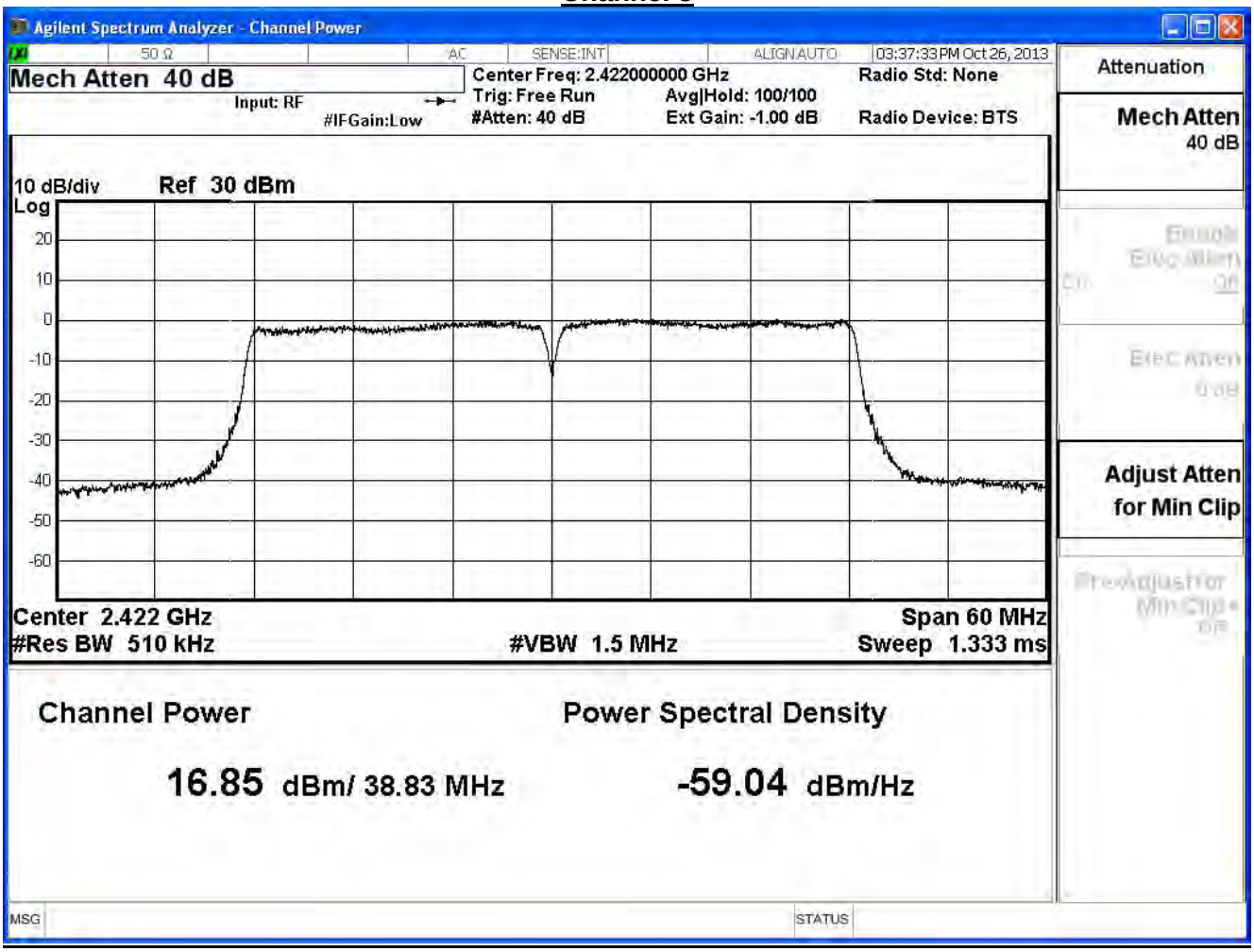
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	16.85	28.99	Pass
6	2437	17.62	28.99	Pass
9	2452	16.75	28.99	Pass

The worst emission of data rate is 27Mbps

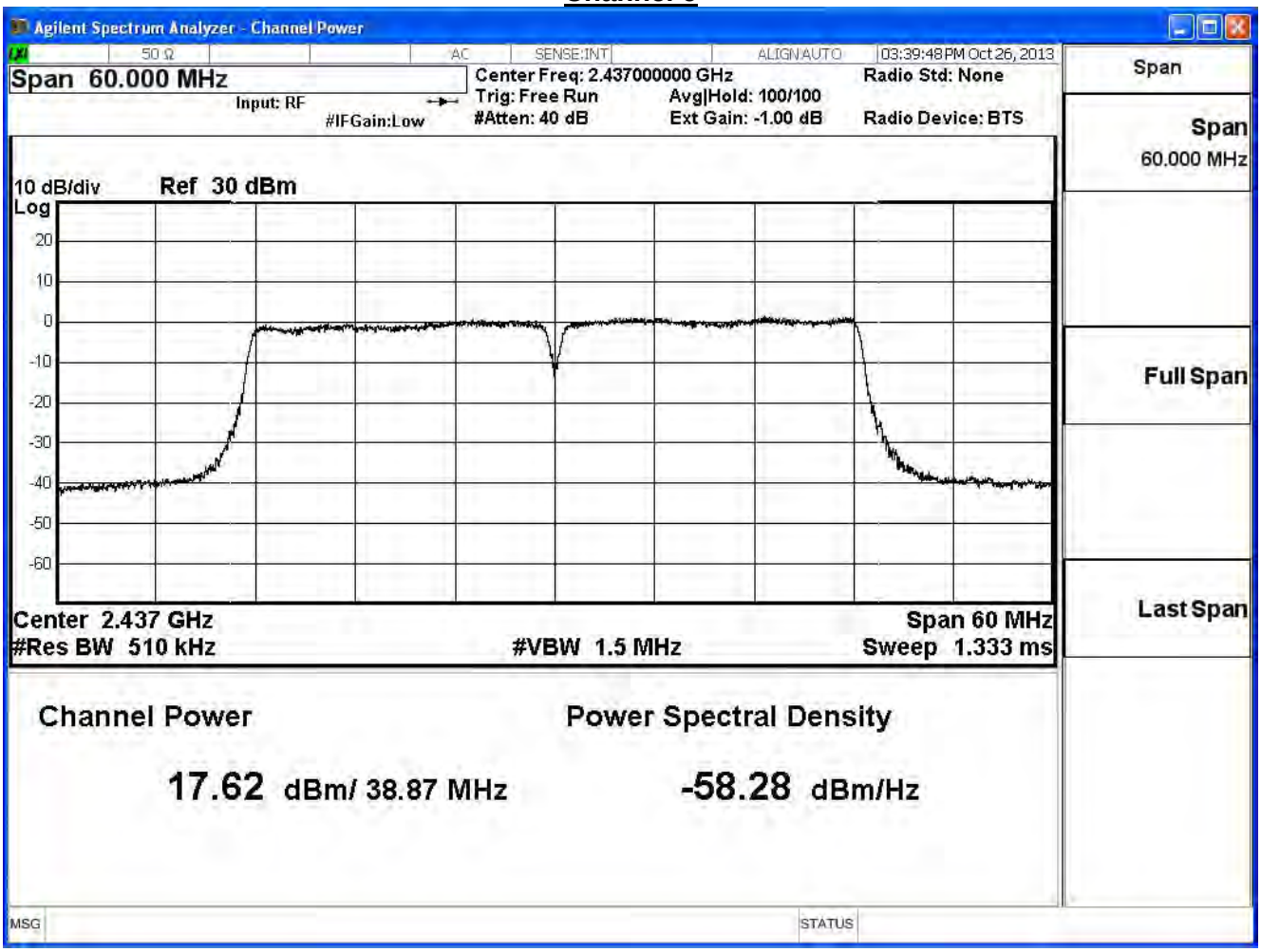
Peak Power Output (dBm)										
MCS Index		27	54	81	108	162	216	243	270	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	16.85	--	--	--	--	--	--	--	28.99
6	2437	17.62	17.52	17.41	17.21	17.11	16.99	16.86	16.74	28.99
9	2452	16.75	--	--	--	--	--	--	--	28.99

Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi
Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

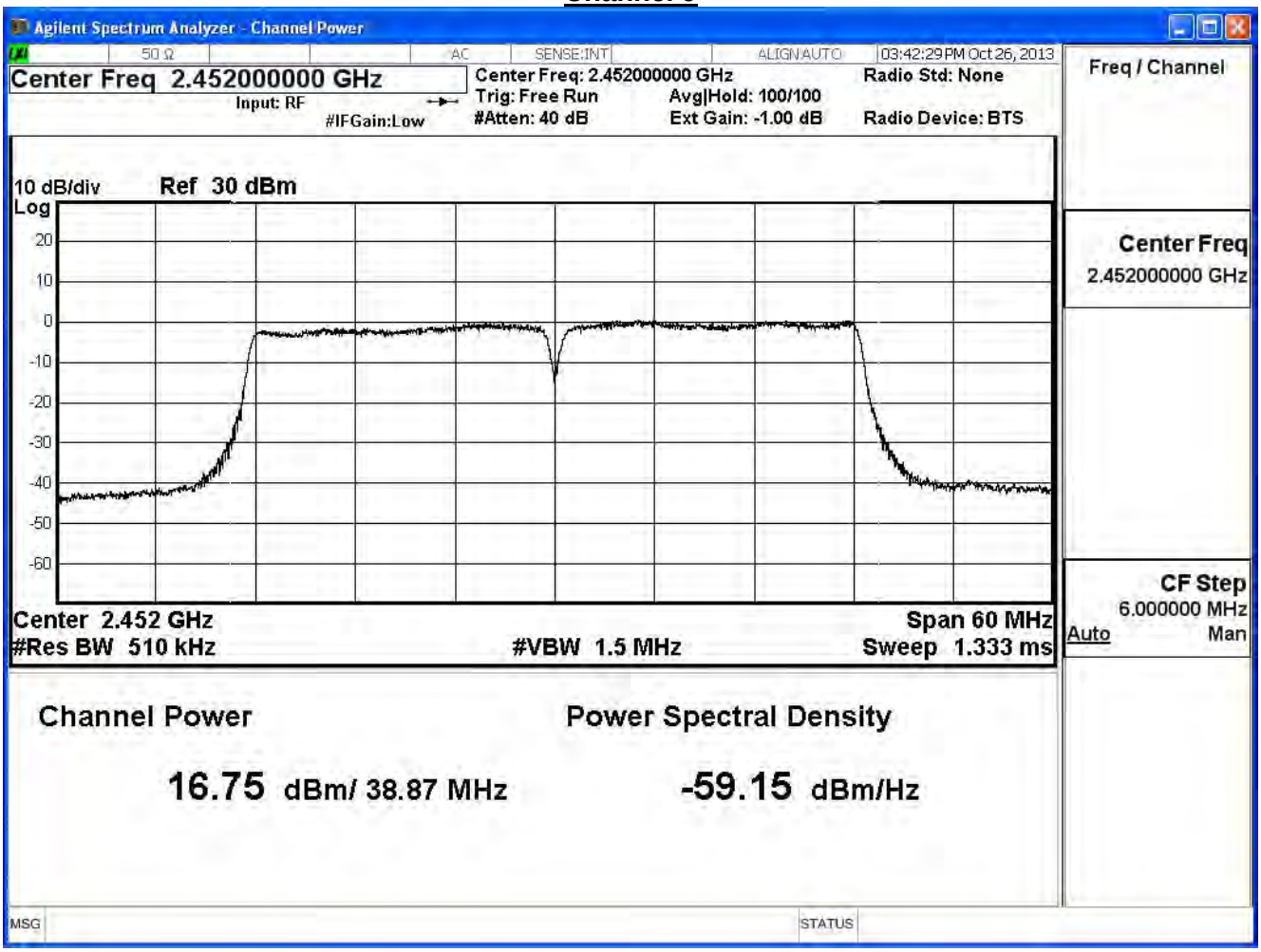
Channel 3


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:37:33 PM Oct 26, 2013
Mech Atten 40 dB
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
Attenuation
Mech Atten
40 dB
Adjust Atten
for Min Clip
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
16.85 dBm/ 38.83 MHz
Power Spectral Density
-59.04 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:39:48 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
17.62 dBm/ 38.87 MHz
Power Spectral Density
-58.28 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 9


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:42:29 PM Oct 26, 2013
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.452000000 GHz
CF Step
6.000000 MHz
Auto
Man
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
16.75 dBm/ 38.87 MHz
Power Spectral Density
-59.15 dBm/Hz
MSG
STATUS

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	16.78	28.99	Pass
6	2437	17.63	28.99	Pass
9	2452	17.07	28.99	Pass

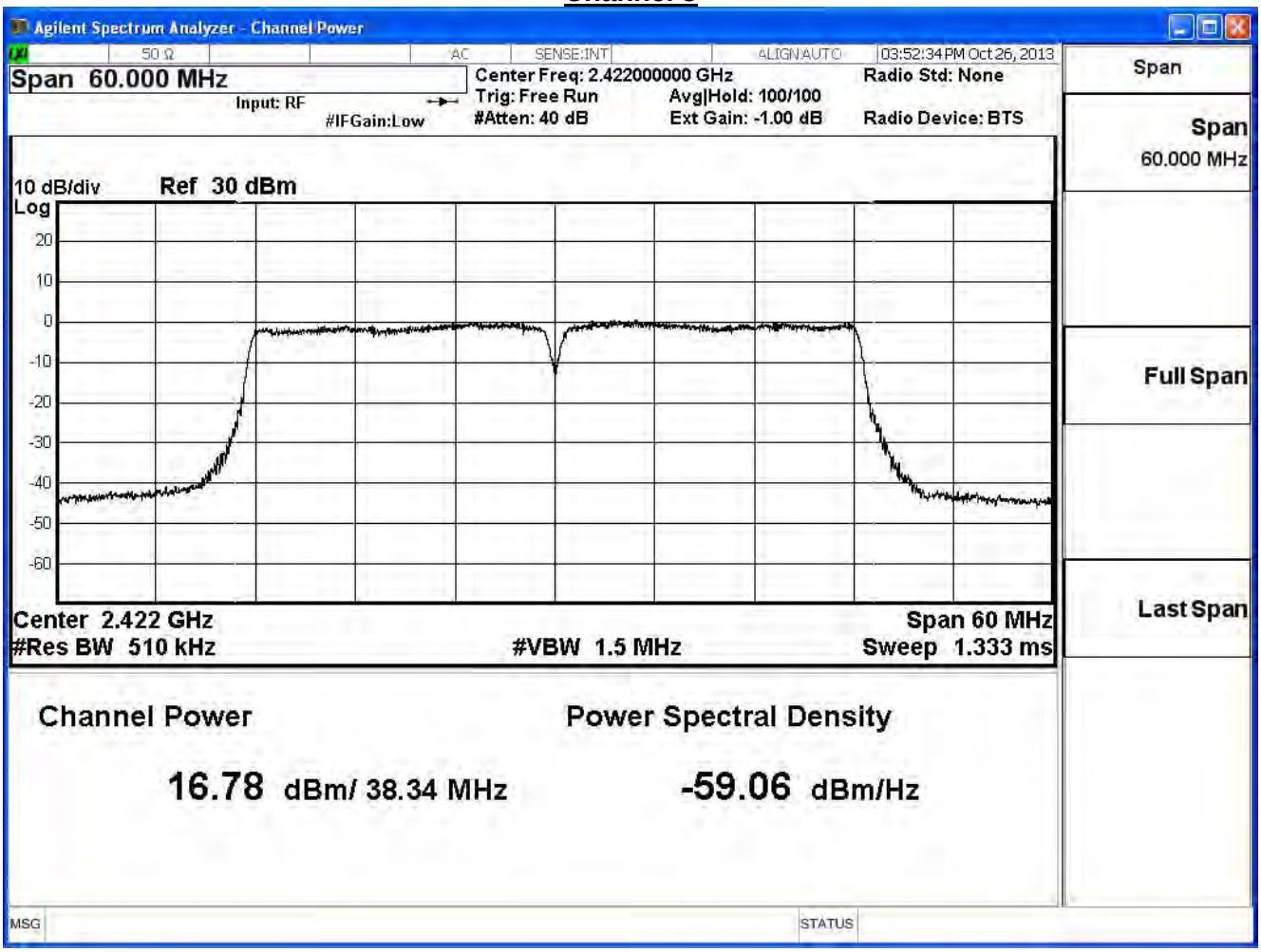
The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	16.78	--	--	--	--	--	--	--	28.99
6	2437	17.63	17.43	17.23	17.10	16.90	16.66	16.42	16.18	28.99
9	2452	17.07	--	--	--	--	--	--	--	28.99

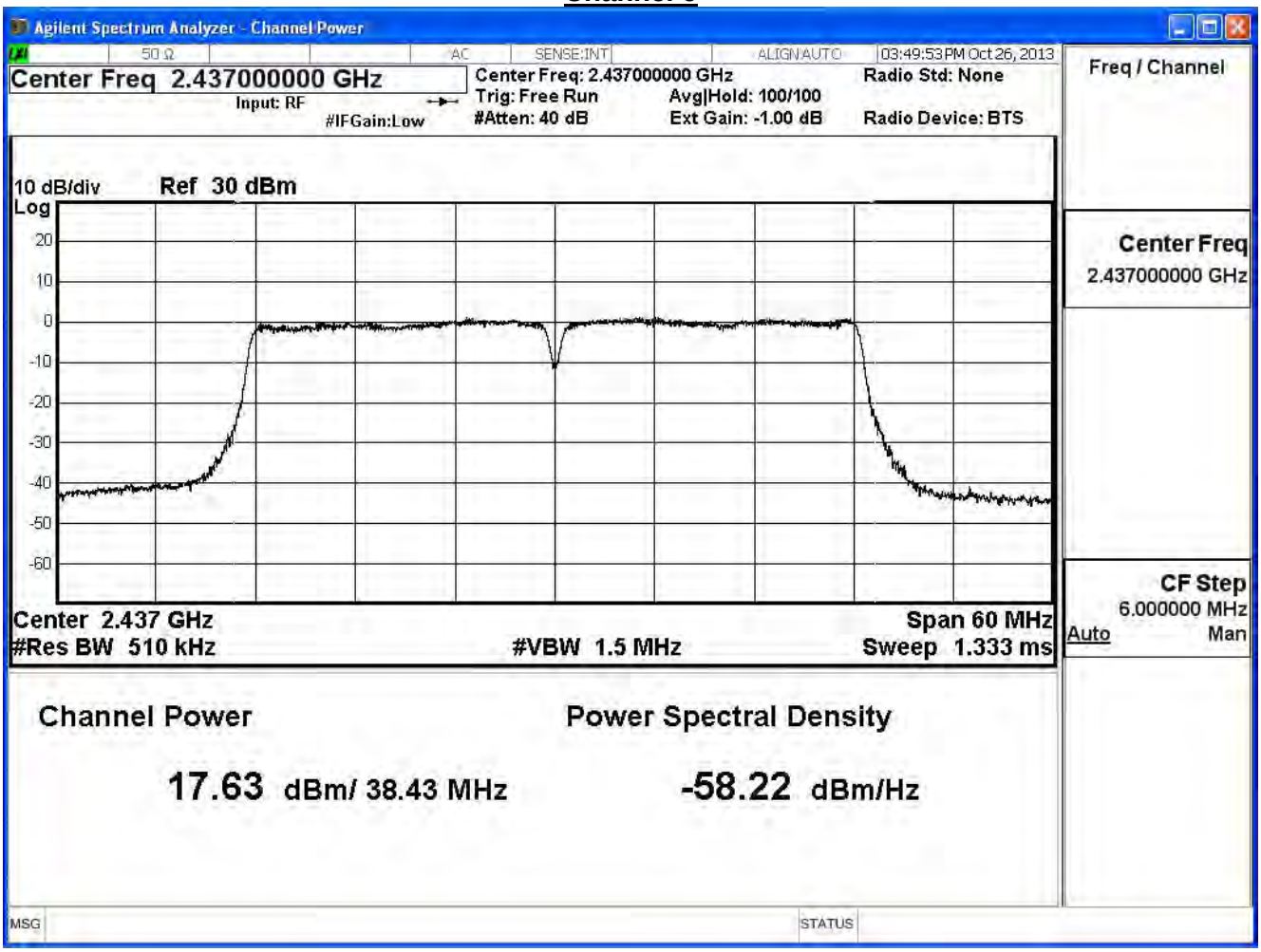
Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi

Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

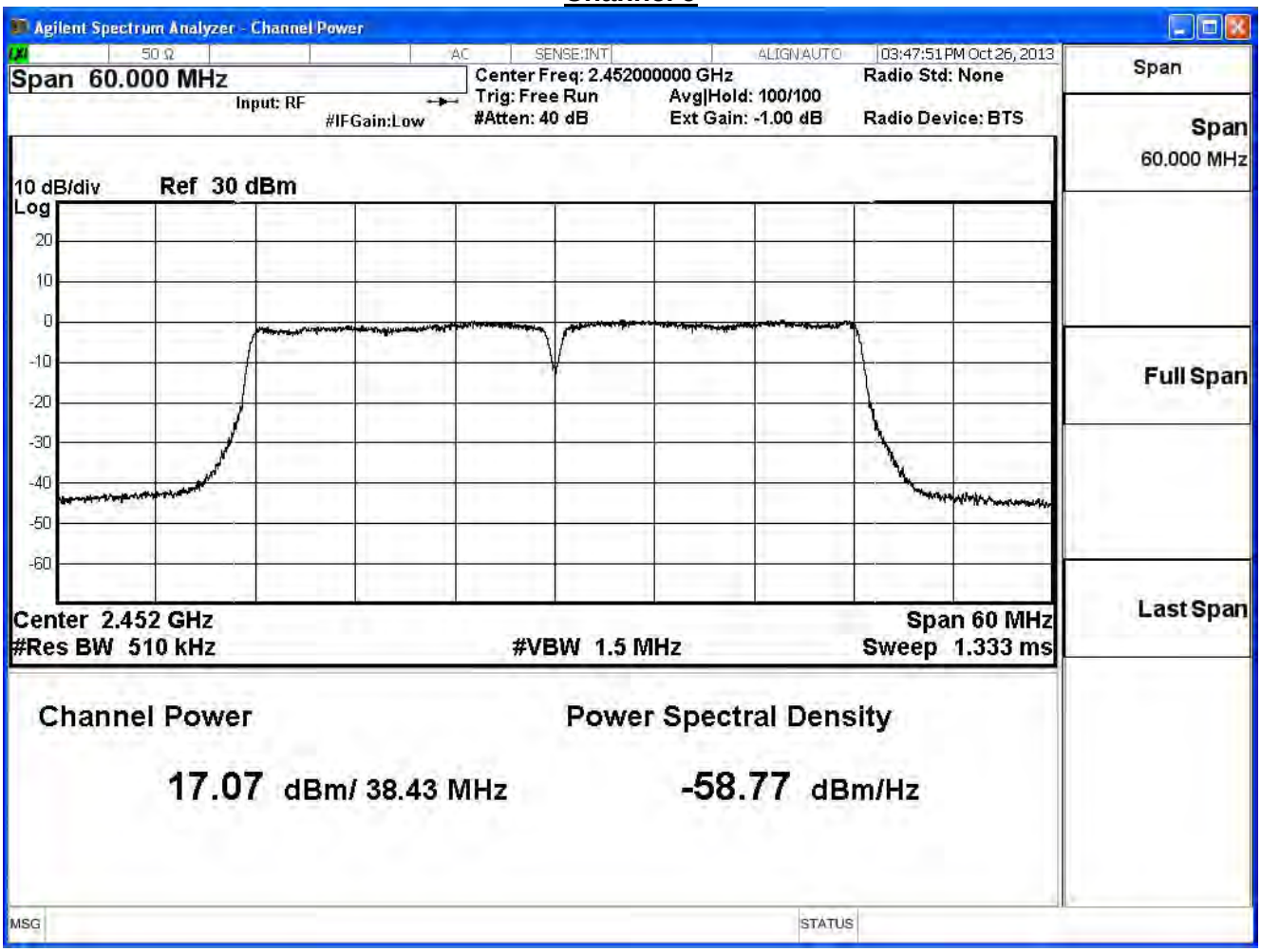
Channel 3


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:52:34 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
16.78 dBm/ 38.34 MHz
Power Spectral Density
-59.06 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:49:53 PM Oct 26, 2013
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 40 dB
Avg|Hold: 100/100
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
17.63 dBm/ 38.43 MHz
Power Spectral Density
-58.22 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:47:51 PM Oct 26, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
17.07 dBm/ 38.43 MHz
Power Spectral Density
-58.77 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/10/26	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	19.83	28.99	Pass
6	2437	20.64	28.99	Pass
9	2452	19.92	28.99	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
3	2422	19.83	--	--	--	--	--	--	--	28.99
6	2437	20.64	20.49	20.28	20.16	20.01	19.83	19.58	19.34	28.99
9	2452	19.92	--	--	--	--	--	--	--	28.99

Note: Measure Level =Reading value + cable loss
Directional antenna : 10log(N)+Max Gain=7.01dBi
Limit : 30dBm-(7.01dBi-6dB)=28.99dBm

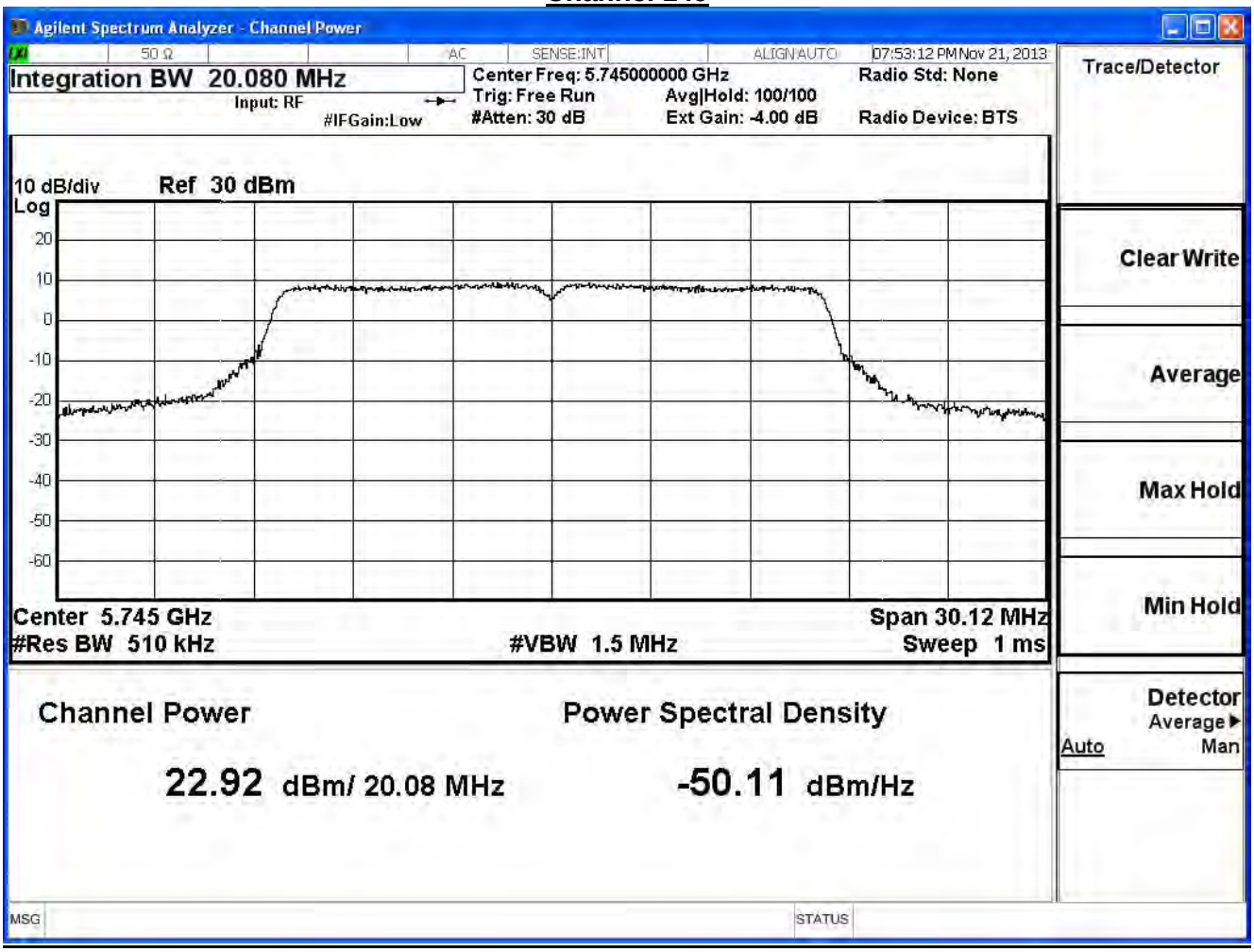
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.92	≦30	Pass
157	5785	22.88	≦30	Pass
165	5825	22.66	≦30	Pass

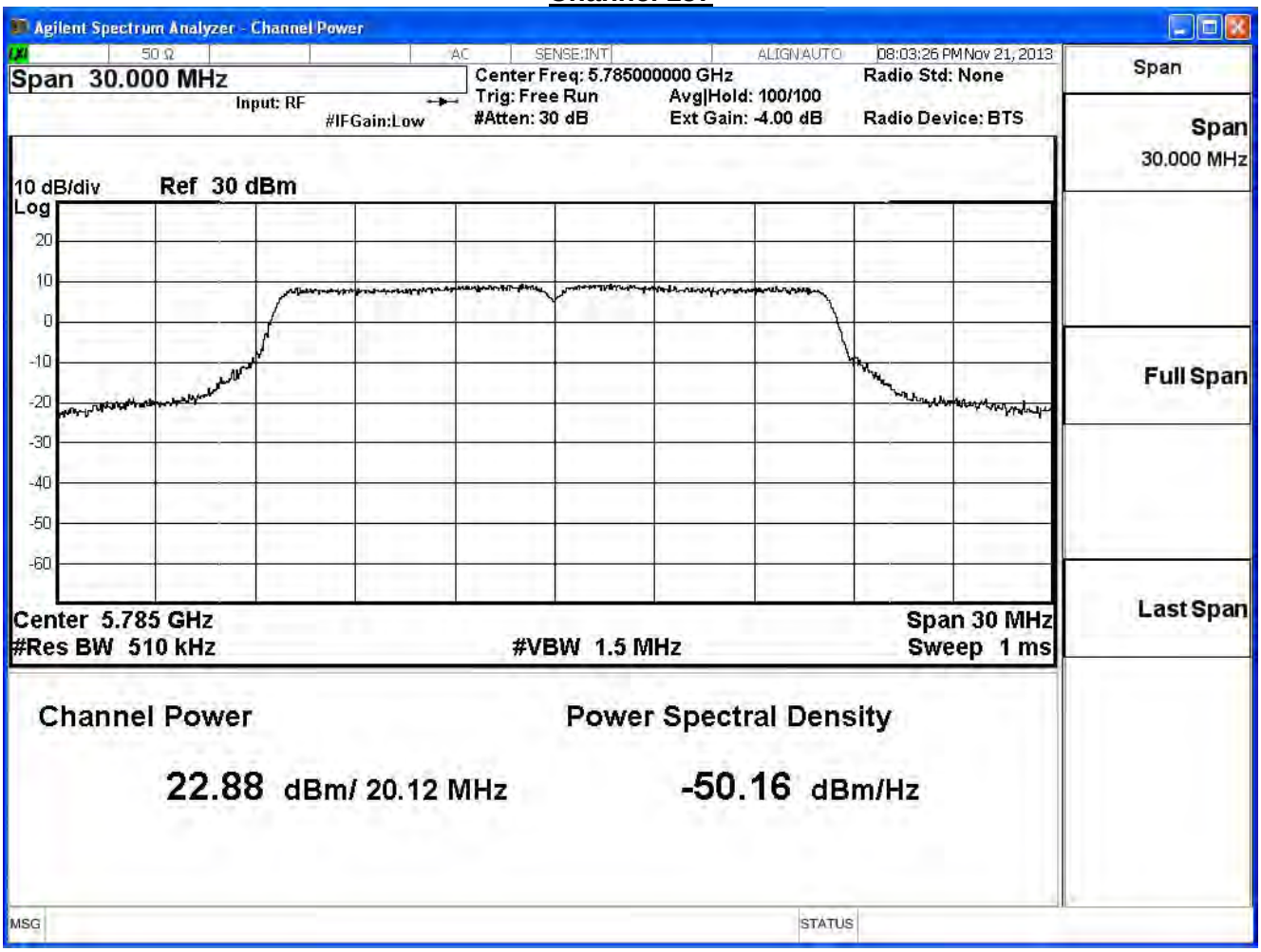
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	22.92	--	--	--	--	--	--	1 Watt=30dBm
157	5785	22.88	22.76	22.56	22.45	22.21	22.09	21.81	1 Watt=30dBm
165	5825	22.66	--	--	--	--	--	--	1 Watt=30dBm

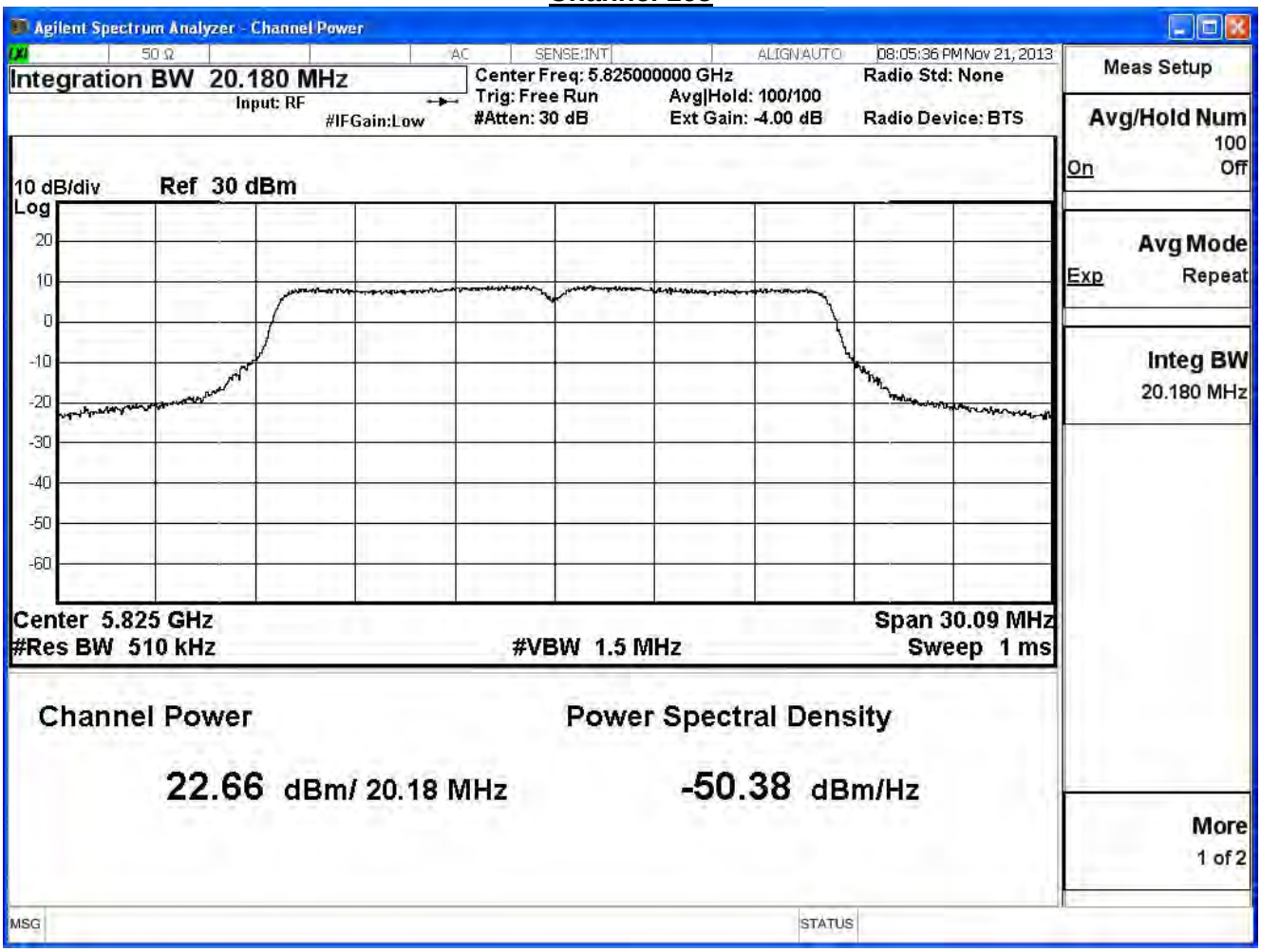
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:53:12 PM Nov 21, 2013
Integration BW 20.080 MHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30.12 MHz
Sweep 1 ms
Clear Write
Average
Max Hold
Min Hold
Channel Power
22.92 dBm/ 20.08 MHz
Power Spectral Density
-50.11 dBm/Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:03:26 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.88 dBm/ 20.12 MHz
Power Spectral Density
-50.16 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:05:36 PM Nov 21, 2013
Integration BW 20.180 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
20.180 MHz
More
1 of 2
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30.09 MHz
Sweep 1 ms
Channel Power
22.66 dBm/ 20.18 MHz
Power Spectral Density
-50.38 dBm/Hz
MSG
STATUS

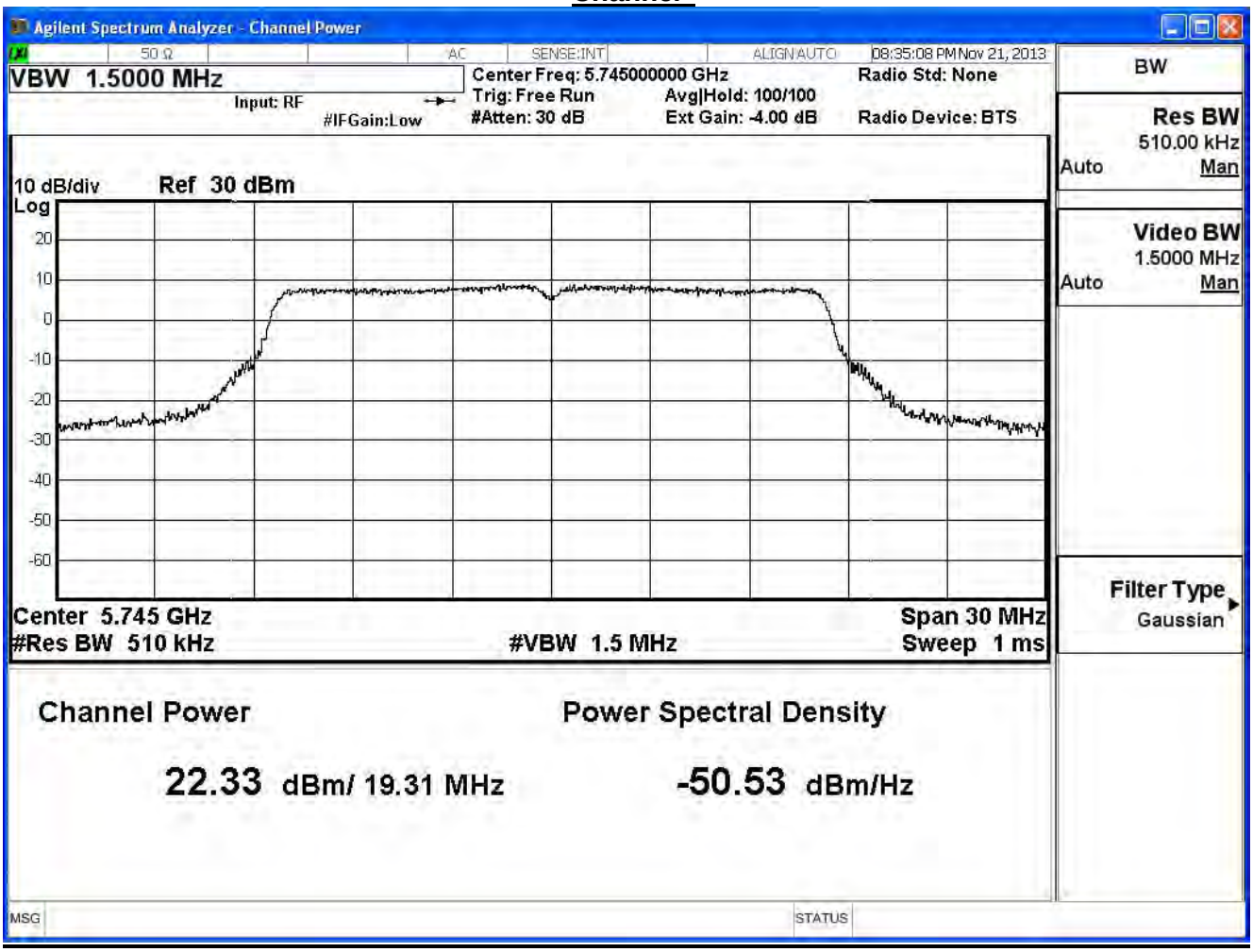
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.33	≦30	Pass
157	5785	22.47	≦30	Pass
165	5825	22.24	≦30	Pass

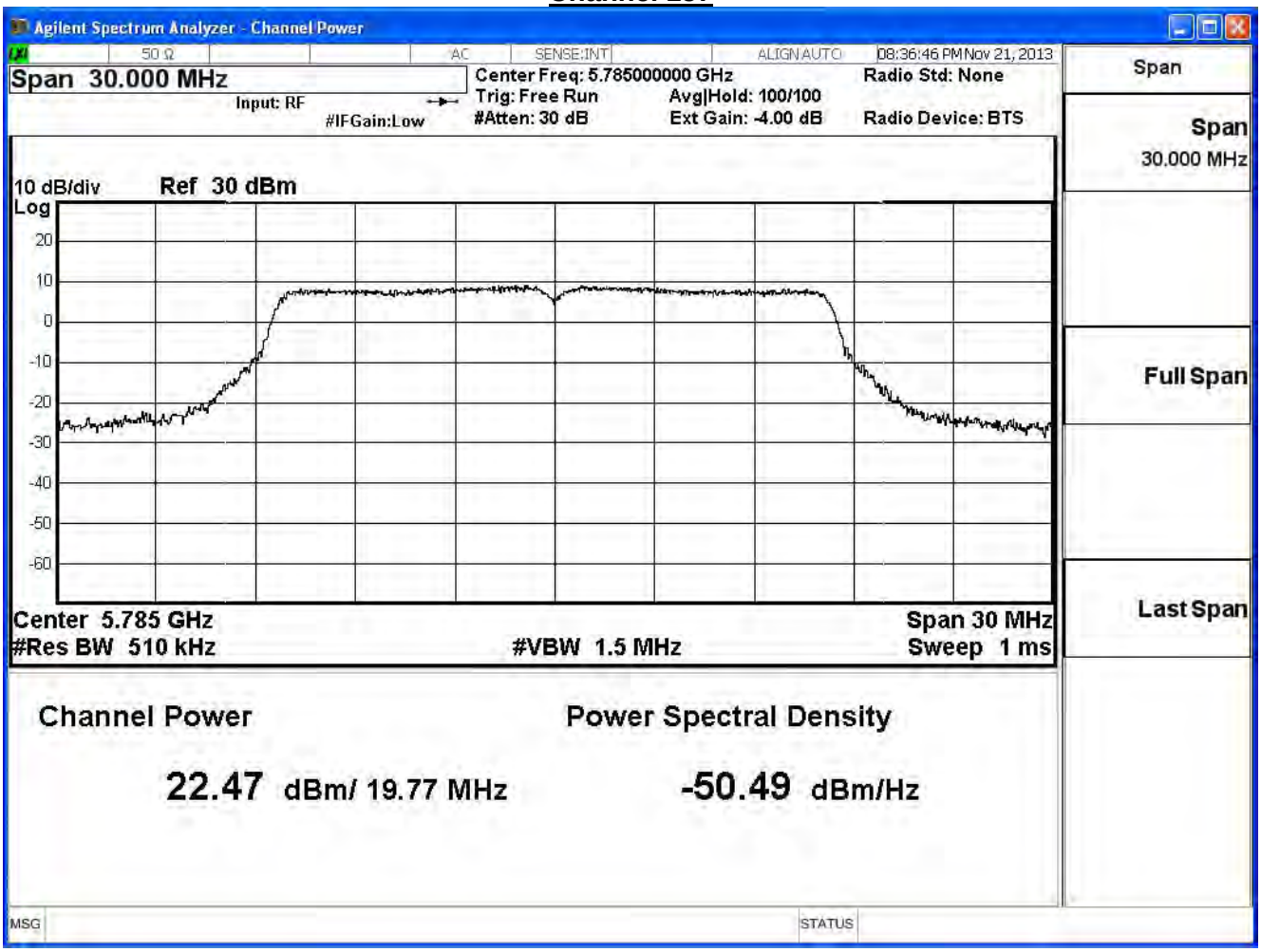
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	22.33	--	--	--	--	--	--	1 Watt=30dBm
157	5785	22.47	22.23	22.13	22.02	21.90	21.66	21.38	1 Watt=30dBm
165	5825	22.24	--	--	--	--	--	--	1 Watt=30dBm

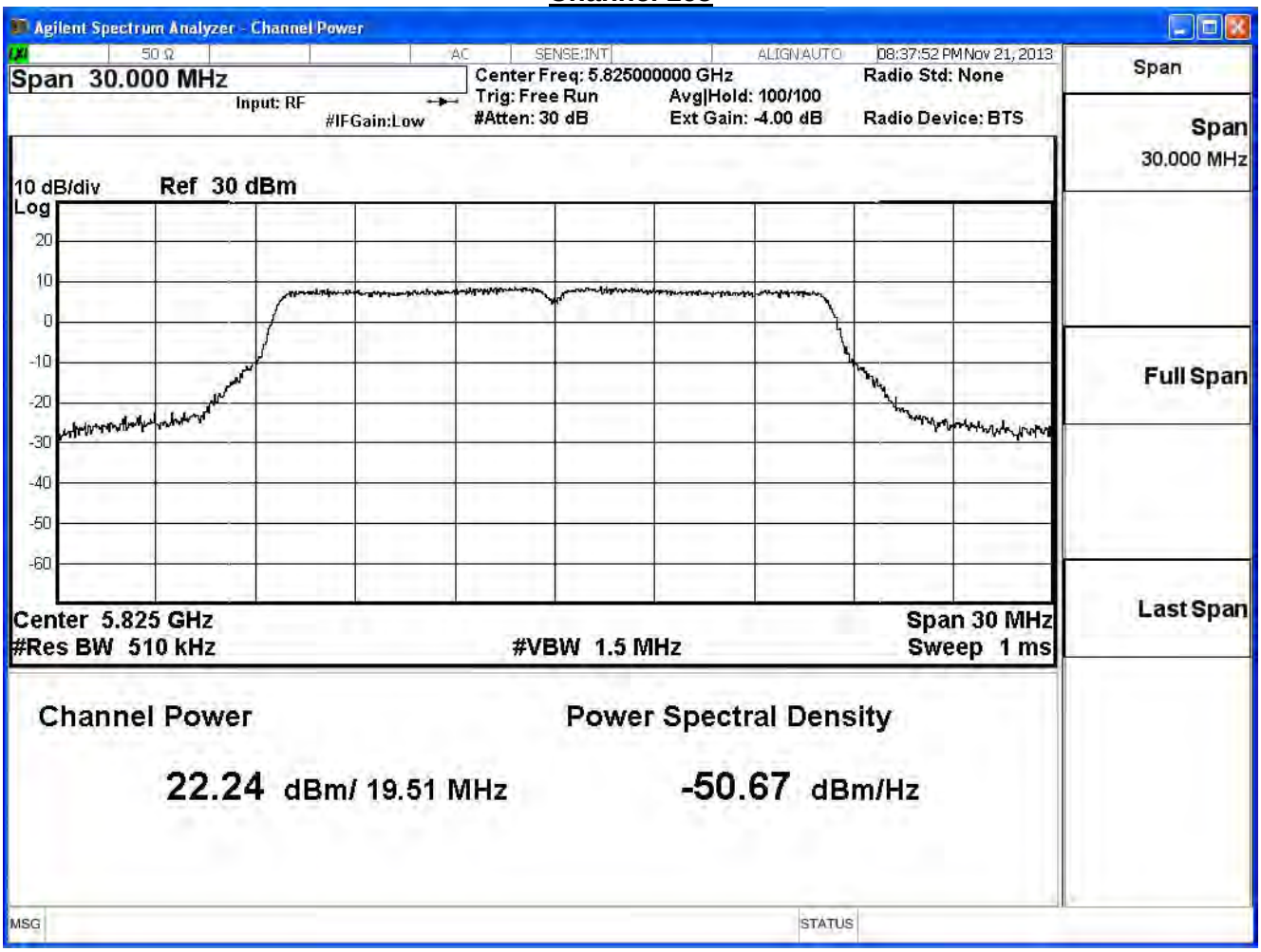
Channel


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:35:08 PM Nov 21, 2013
VBW 1.5000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
BW
Res BW
510.00 kHz
Auto
Man
Video BW
1.5000 MHz
Auto
Man
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Filter Type
Gaussian
Channel Power
22.33 dBm/ 19.31 MHz
Power Spectral Density
-50.53 dBm/Hz
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:36:46 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.47 dBm/ 19.77 MHz
Power Spectral Density
-50.49 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:37:52 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.24 dBm/ 19.51 MHz
Power Spectral Density
-50.67 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11a (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	25.65	≦30	Pass
157	5785	25.69	≦30	Pass
165	5825	25.47	≦30	Pass

The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	25.65	--	--	--	--	--	--	1 Watt=30dBm
157	5785	25.69	25.45	25.25	25.03	24.79	24.55	24.41	1 Watt=30dBm
165	5825	25.47	--	--	--	--	--	--	1 Watt=30dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

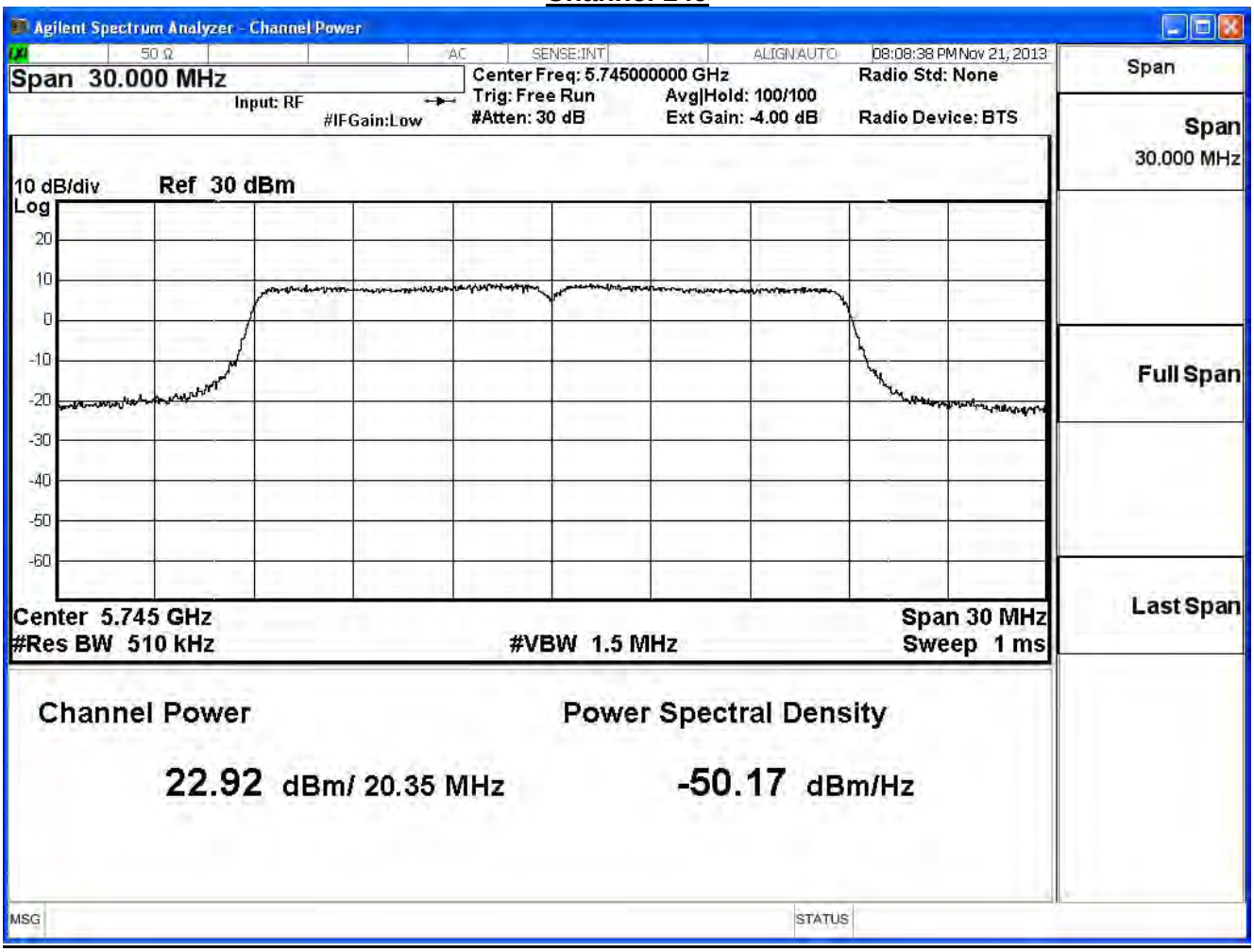
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.92	≦30	Pass
157	5785	22.75	≦30	Pass
165	5825	22.82	≦30	Pass

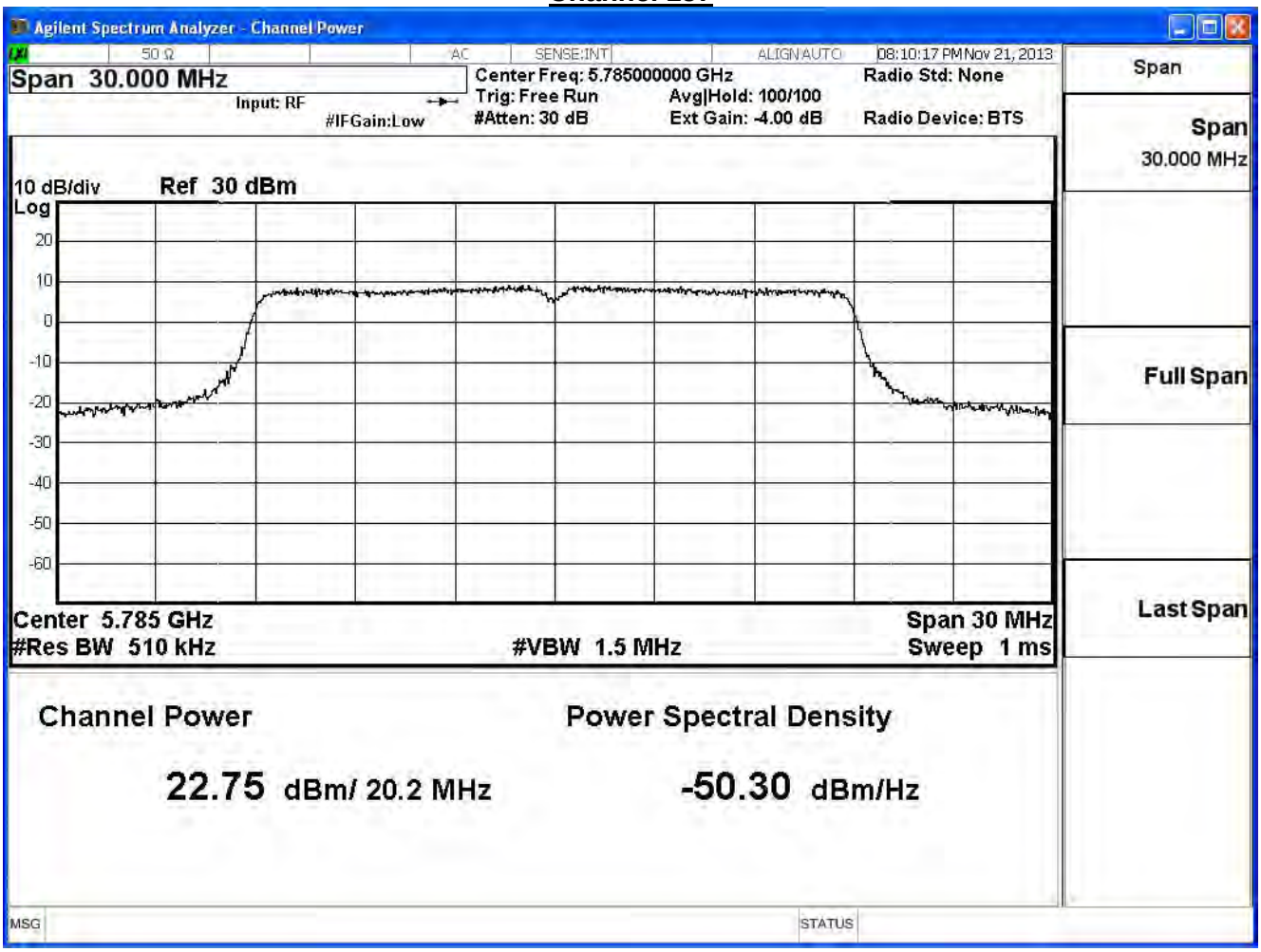
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.92	--	--	--	--	--	--	--	30dBm
157	5785	22.75	22.53	22.33	22.23	22.11	21.99	21.69	21.57	30dBm
165	5825	22.82	--	--	--	--	--	--	--	30dBm

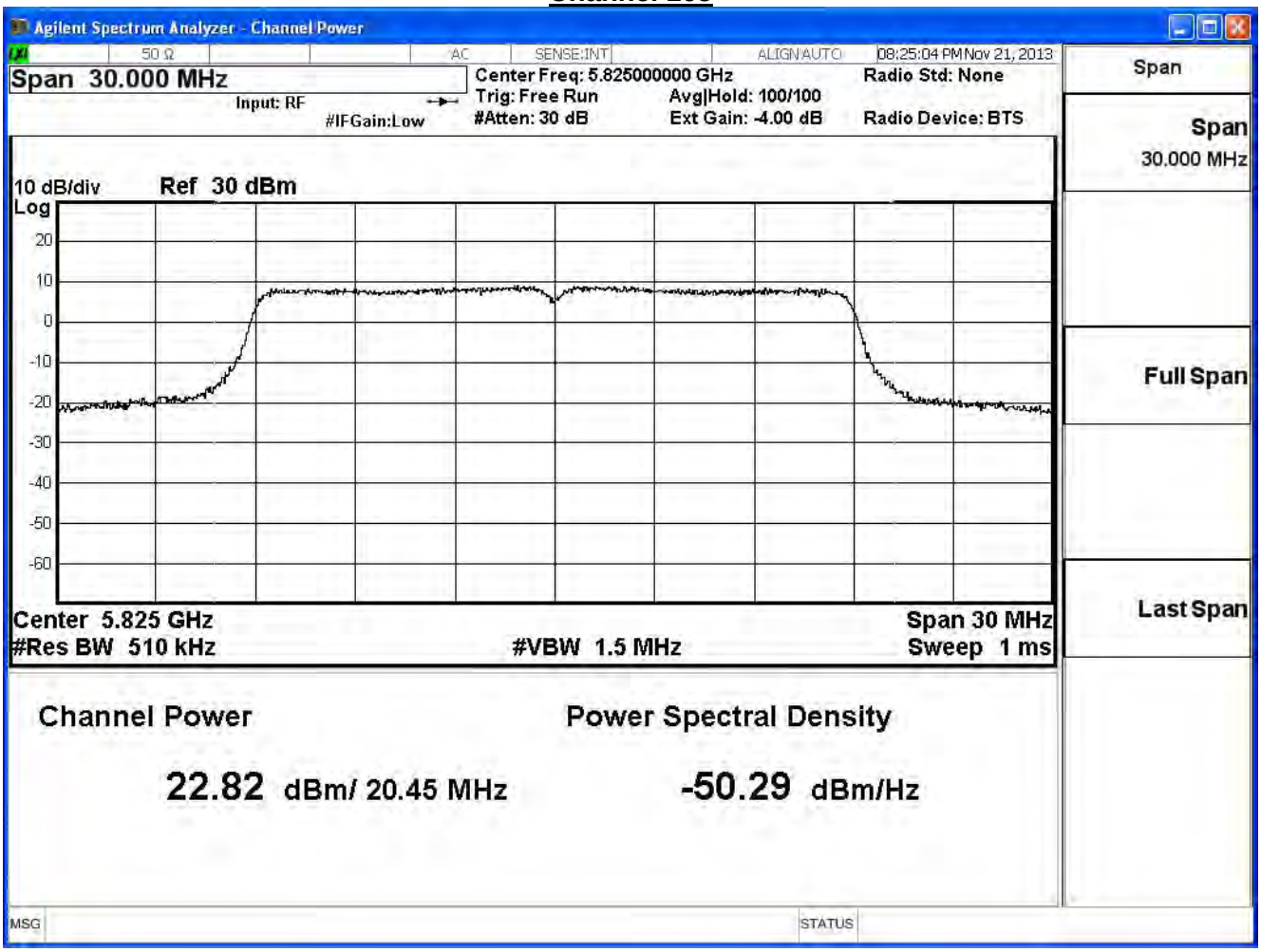
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:08:38 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.92 dBm/ 20.35 MHz
Power Spectral Density
-50.17 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:10:17 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.75 dBm/ 20.2 MHz
Power Spectral Density
-50.30 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:25:04 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.82 dBm/ 20.45 MHz
Power Spectral Density
-50.29 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

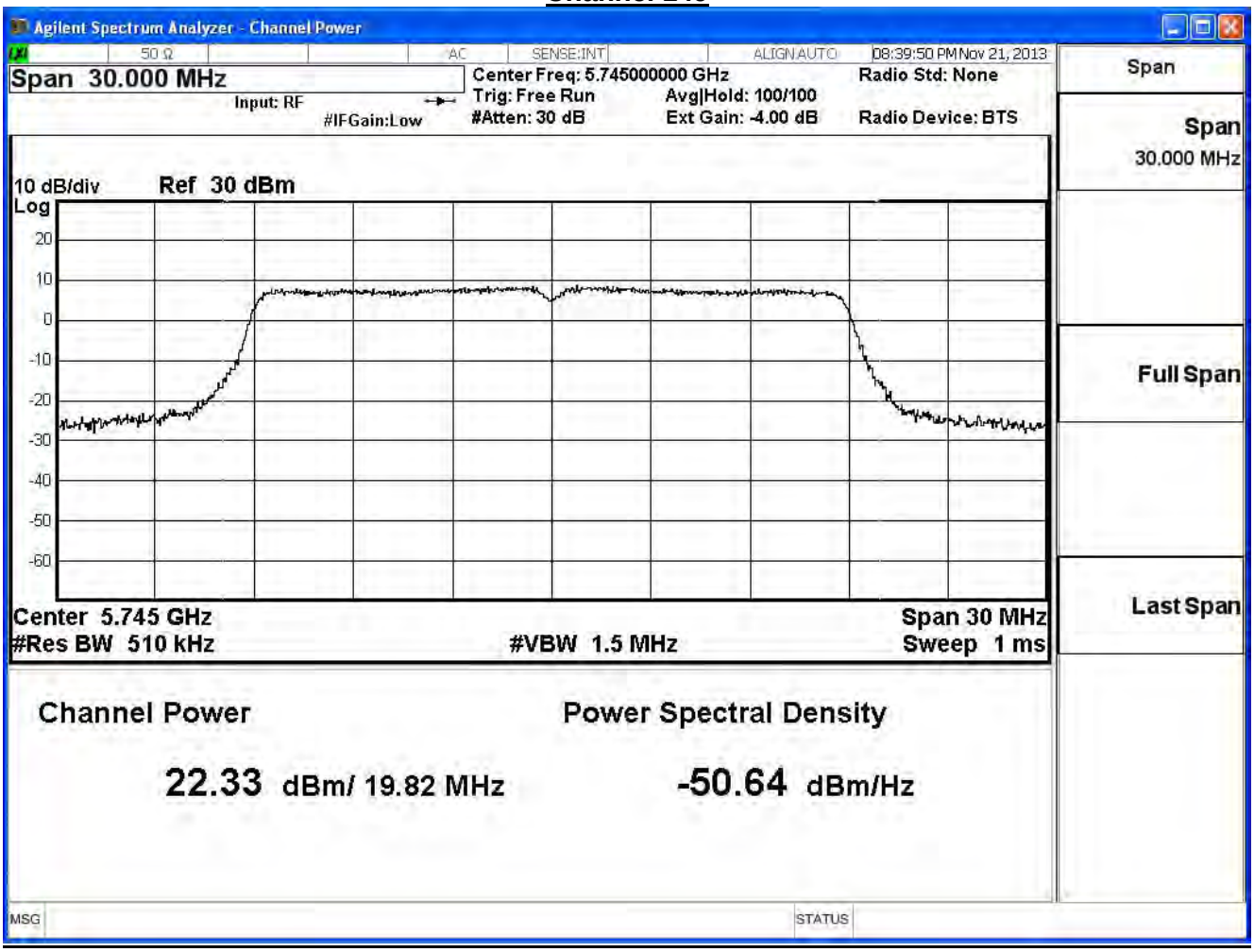
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.33	≦30	Pass
157	5785	22.57	≦30	Pass
165	5825	22.51	≦30	Pass

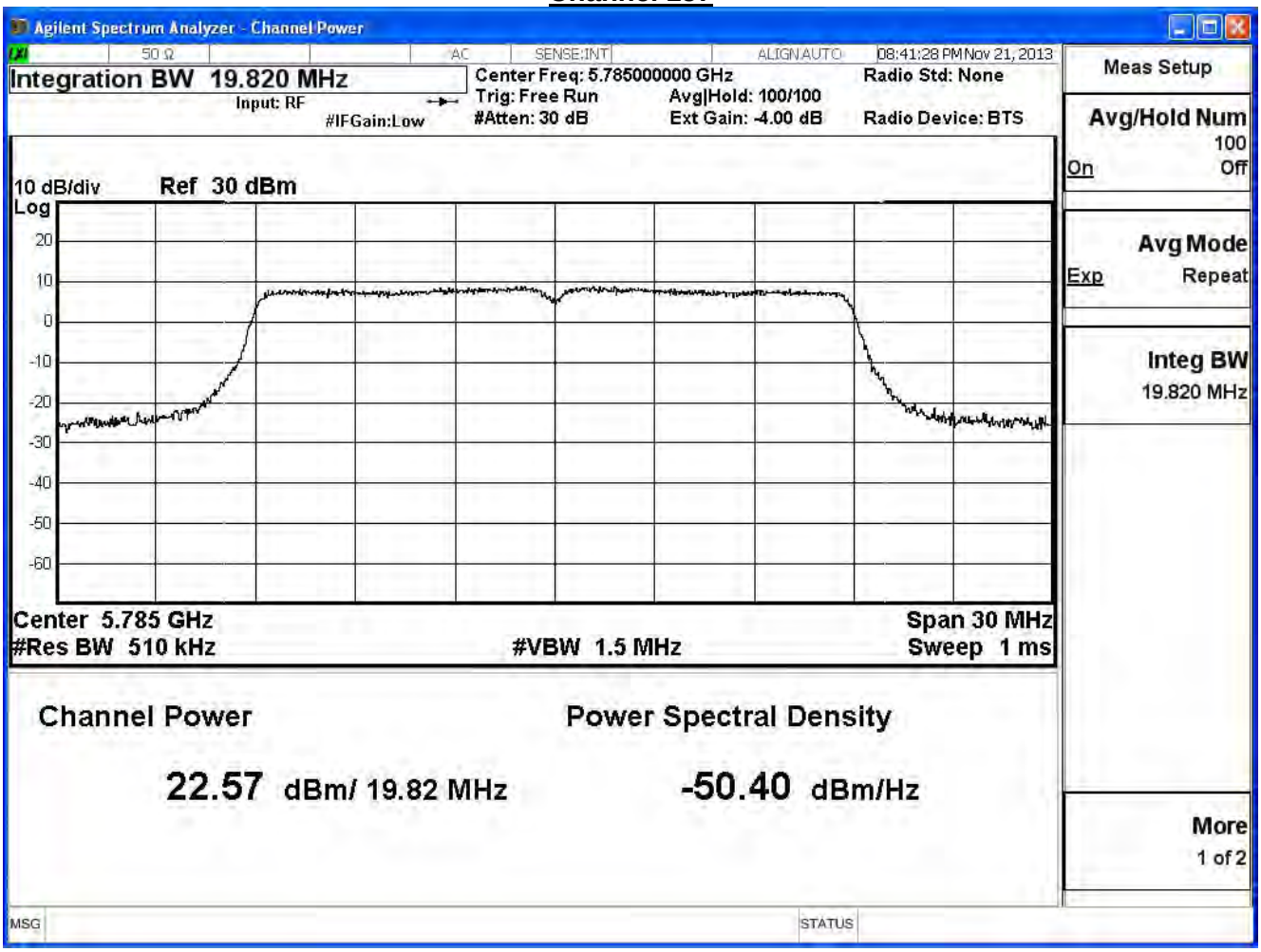
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	22.33	--	--	--	--	--	--	--	30dBm
157	5785	22.57	22.47	22.23	22.13	22.03	21.90	21.66	21.42	30dBm
165	5825	22.51	--	--	--	--	--	--	--	30dBm

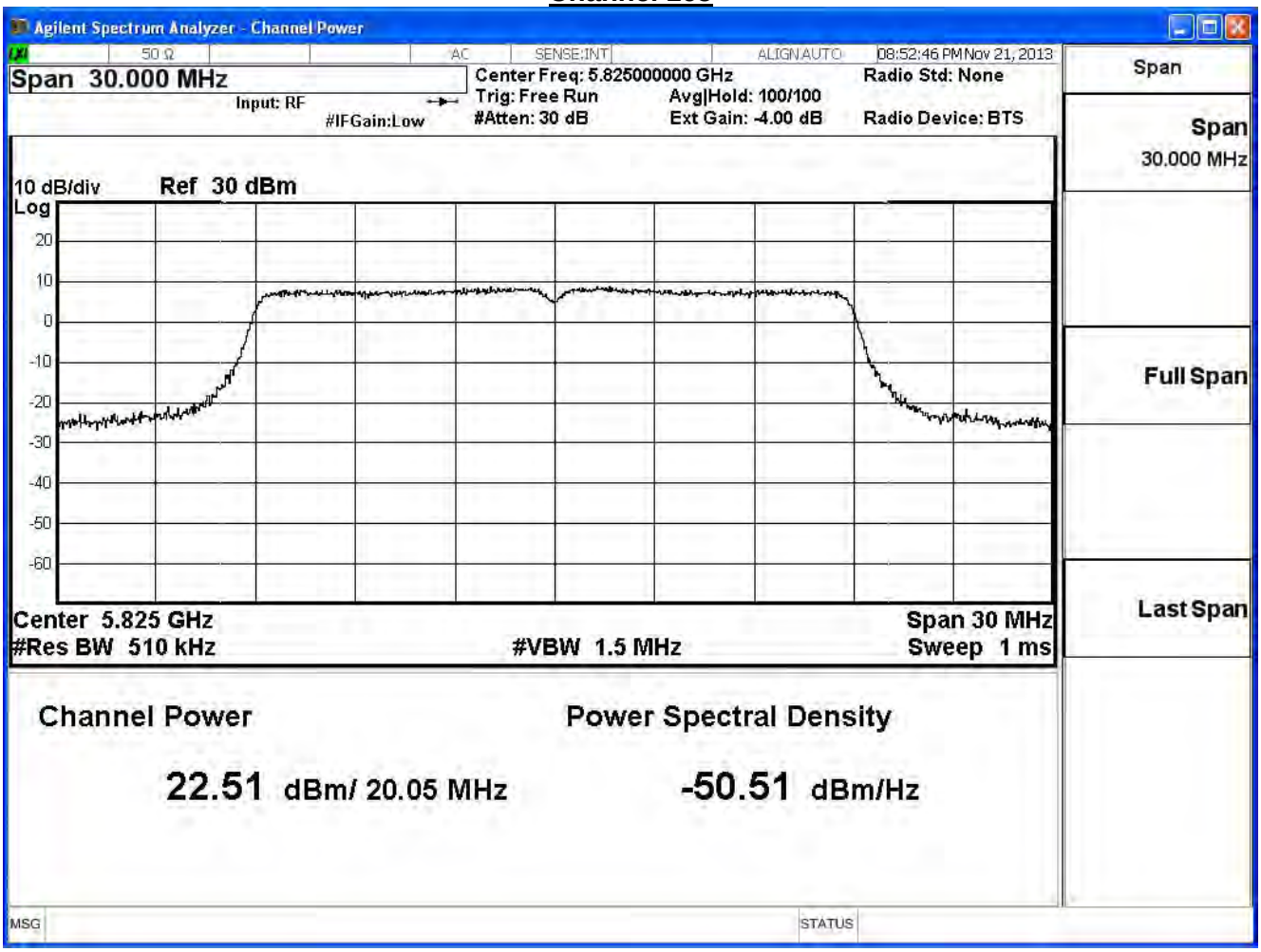
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:39:50 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.33 dBm/ 19.82 MHz
Power Spectral Density
-50.64 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:41:28 PM Nov 21, 2013
Integration BW 19.820 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
19.820 MHz
More
1 of 2
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.57 dBm/ 19.82 MHz
Power Spectral Density
-50.40 dBm/Hz
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:52:46 PM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.51 dBm/ 20.05 MHz
Power Spectral Density
-50.51 dBm/Hz
MSG
STATUS
Span
Span
30.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	25.65	≦30	Pass
157	5785	25.67	≦30	Pass
165	5825	25.68	≦30	Pass

The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	25.65	--	--	--	--	--	--	--	30dBm
157	5785	25.67	25.51	25.29	25.19	25.08	24.96	24.69	24.51	30dBm
165	5825	25.68	--	--	--	--	--	--	--	30dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

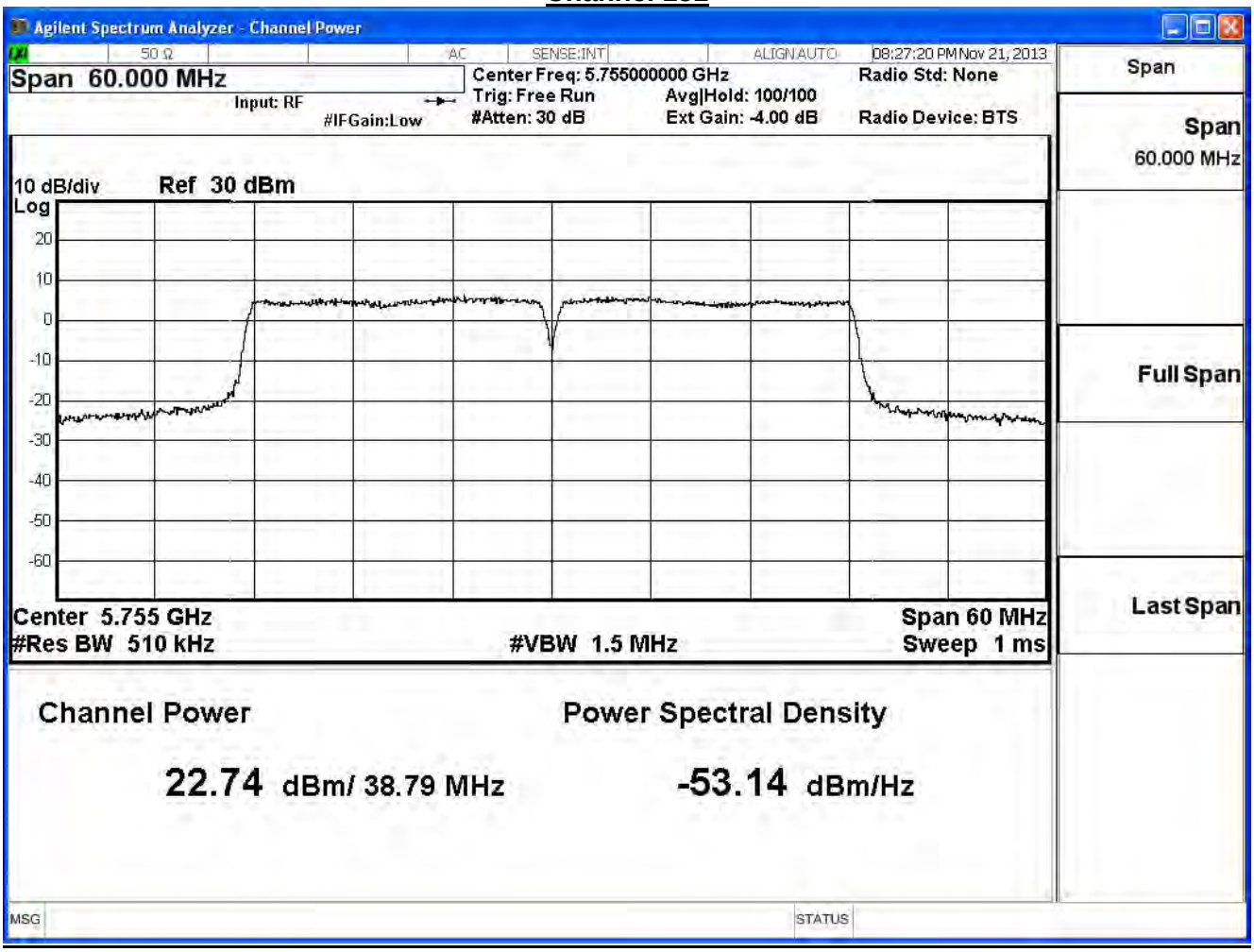
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	22.74	30	Pass
159	5795	22.91	30	Pass

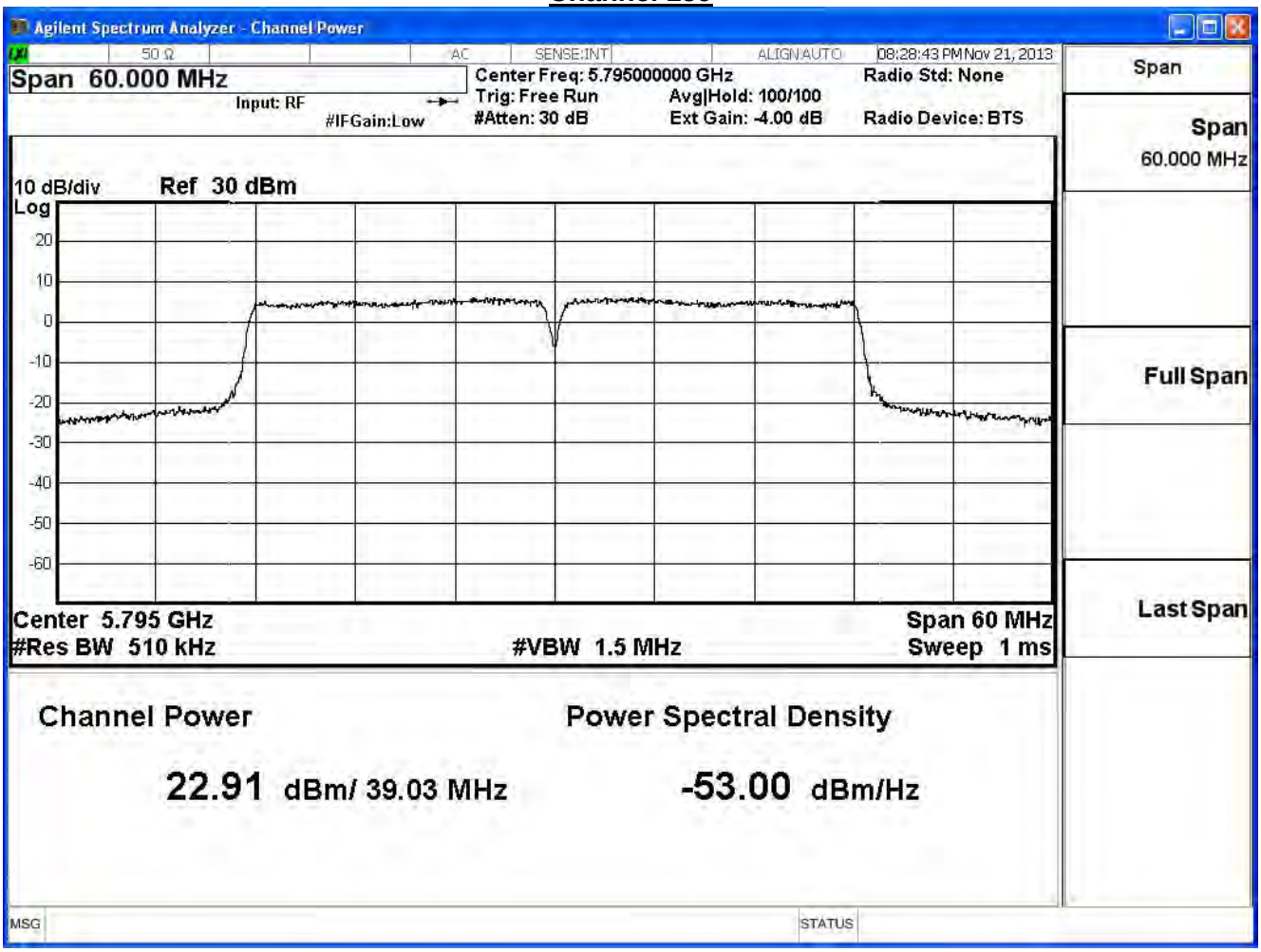
The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	22.74	--	--	--	--	--	--	--	30dBm
159	5795	22.91	22.81	22.61	22.51	22.31	22.07	21.83	21.71	30dBm

Channel 151


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:27:20 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.755000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.74 dBm/ 38.79 MHz
Power Spectral Density
-53.14 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 159


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:28:43 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.91 dBm/ 39.03 MHz
Power Spectral Density
-53.00 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

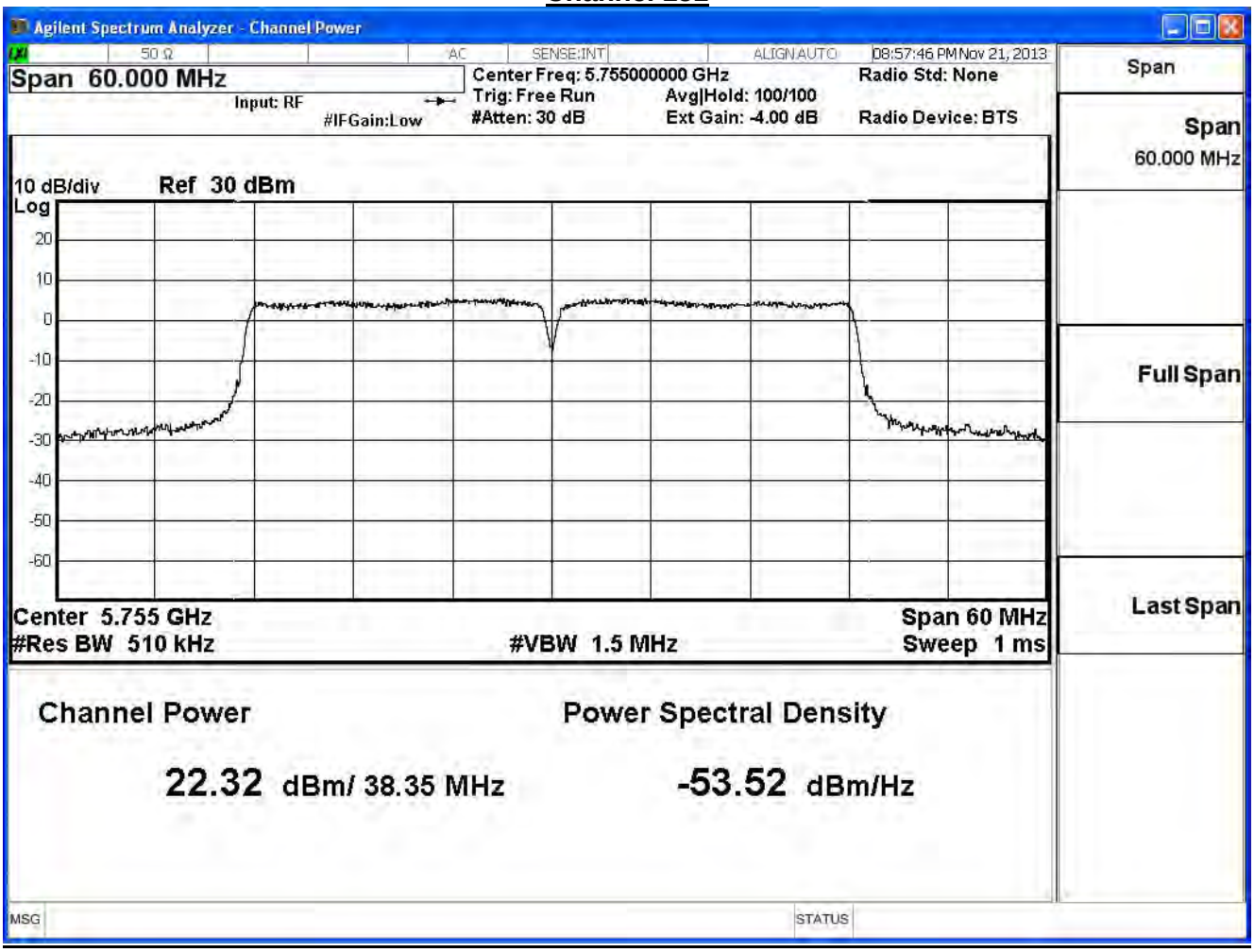
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	22.32	30	Pass
159	5795	22.42	30	Pass

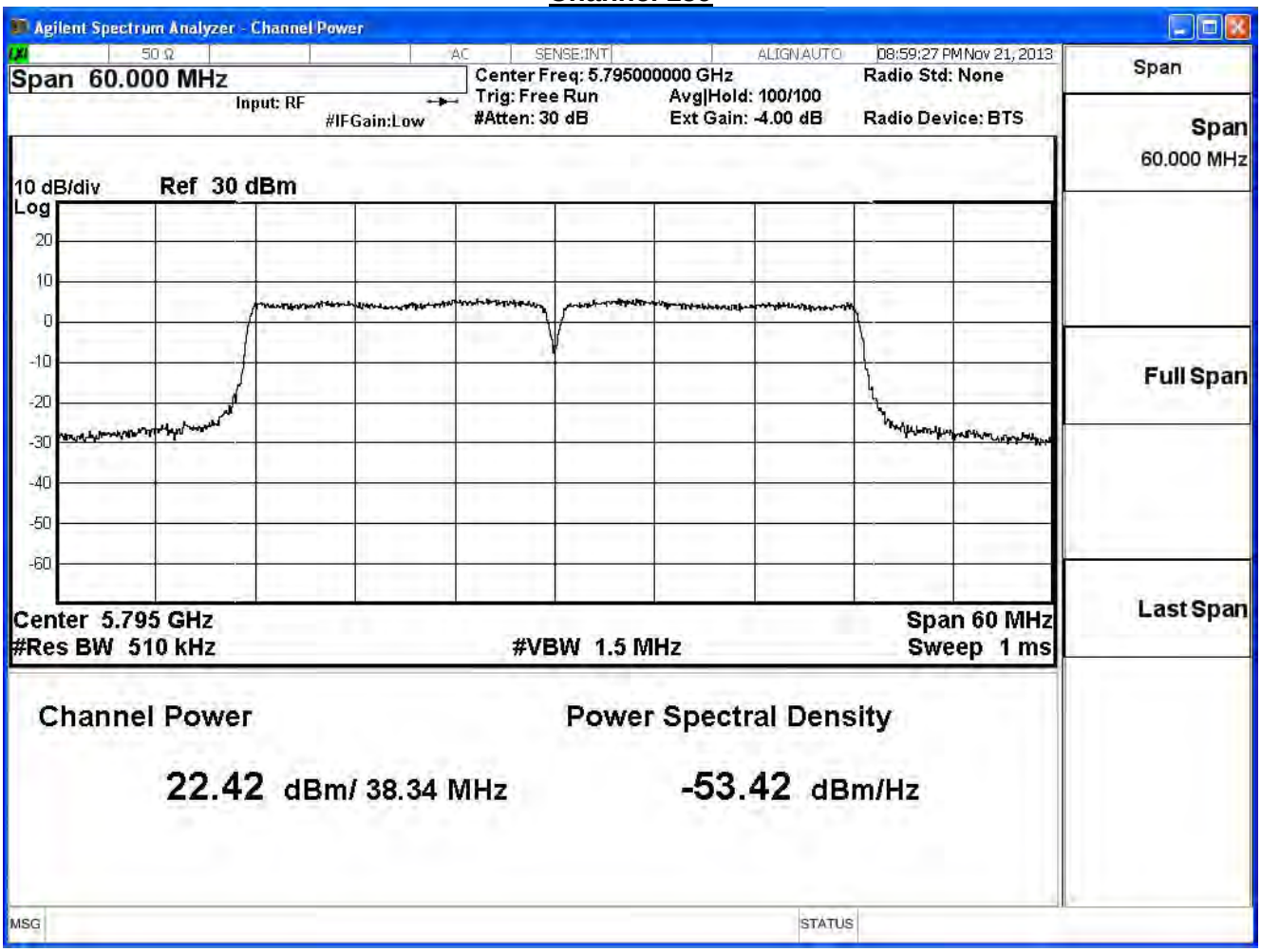
The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	22.32	--	--	--	--	--	--	--	30dBm
159	5795	22.42	22.32	22.22	22.12	21.92	21.68	21.44	21.20	30dBm

Channel 151


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:57:46 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.755000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.32 dBm/ 38.35 MHz
Power Spectral Density
-53.52 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 159


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:59:27 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.42 dBm/ 38.34 MHz
Power Spectral Density
-53.42 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	25.55	30	Pass
159	5795	25.68	30	Pass

The worst emission of data rate is 13.5Mbps

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	25.55	--	--	--	--	--	--	--	30dBm
159	5795	25.68	25.58	25.43	25.33	25.13	24.89	24.65	24.47	30dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

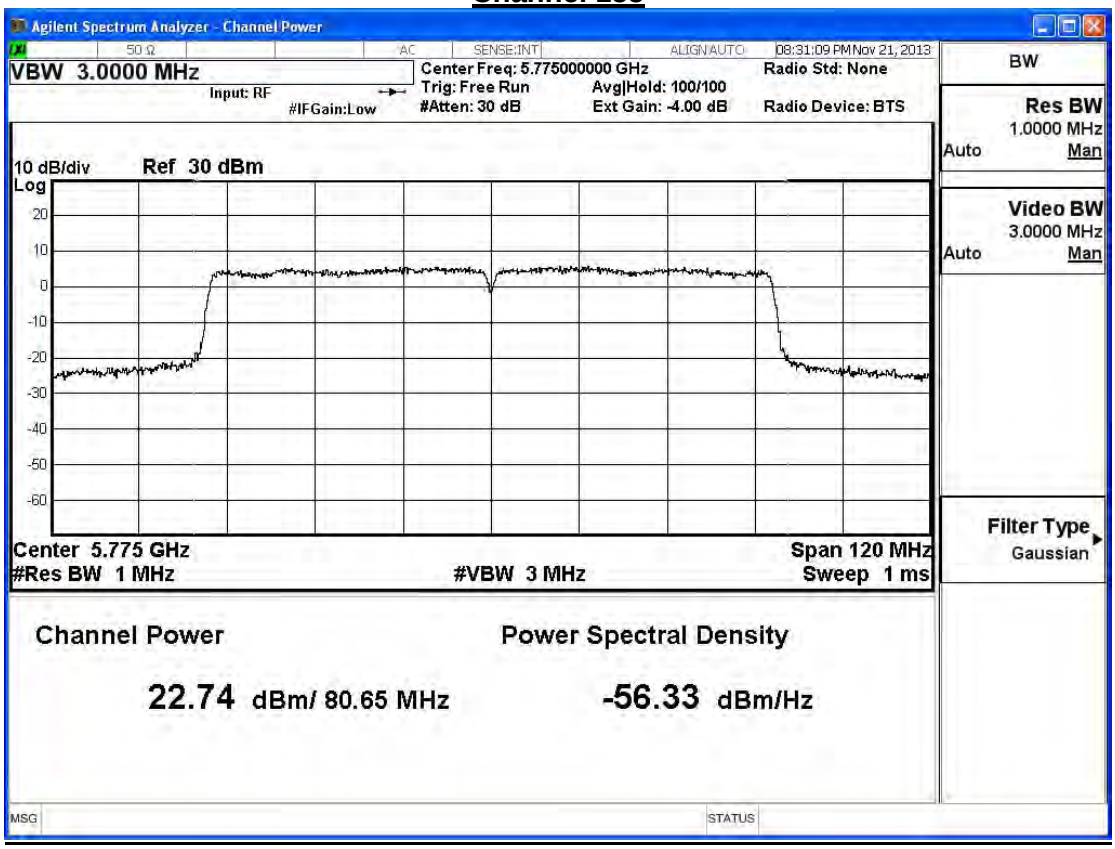
IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	22.74	≦30	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
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	22.73	22.64	22.44	22.24	22.04	21.84	21.60	21.36	21.12	21.00

Channel 155



Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

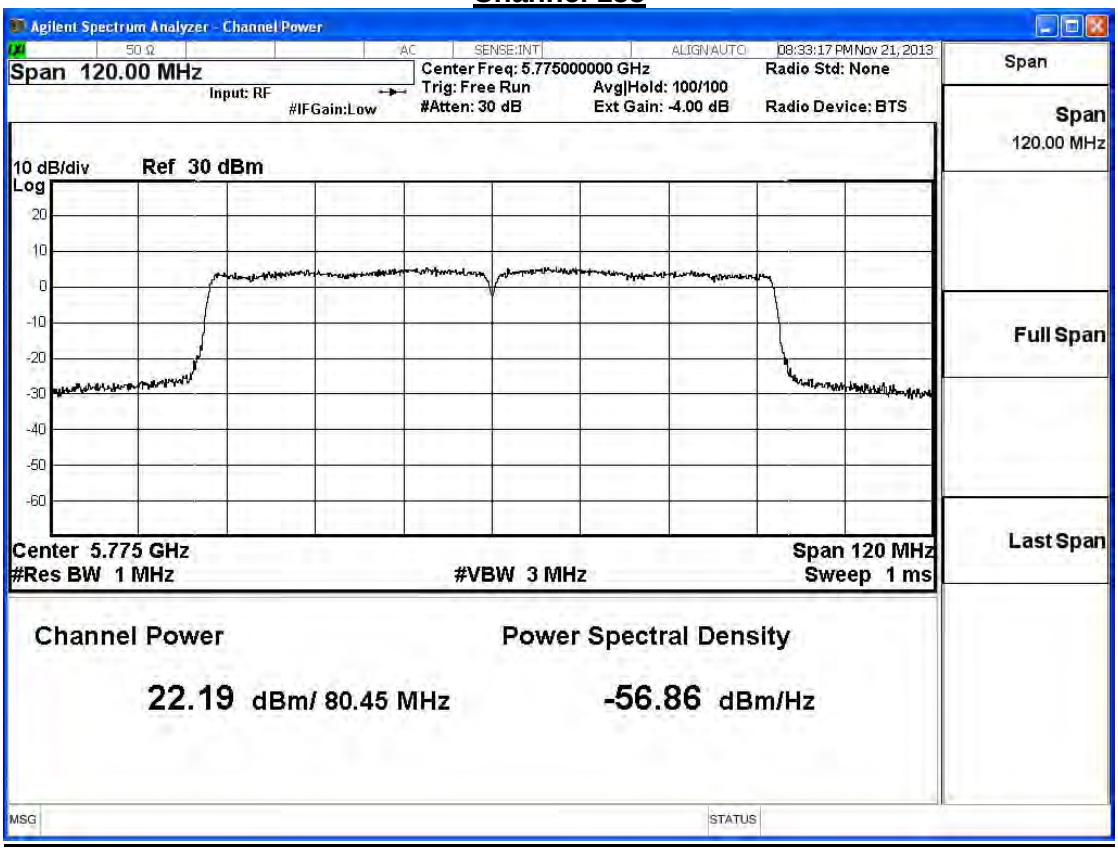
IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	22.19	≦30	Pass

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
155	5775	22.18	21.99	21.89	21.69	21.49	21.29	21.05	20.93	20.69	20.57

Channel 155



Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	25.48	≦30	Pass

The worst emission of data rate is 29.3 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	25.48	25.34	25.18	24.98	24.78	24.58	24.34	24.16	23.92	23.80

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	24.85	≦28.99	Pass
157	5785	24.92	≦28.99	Pass
165	5825	24.52	≦28.99	Pass

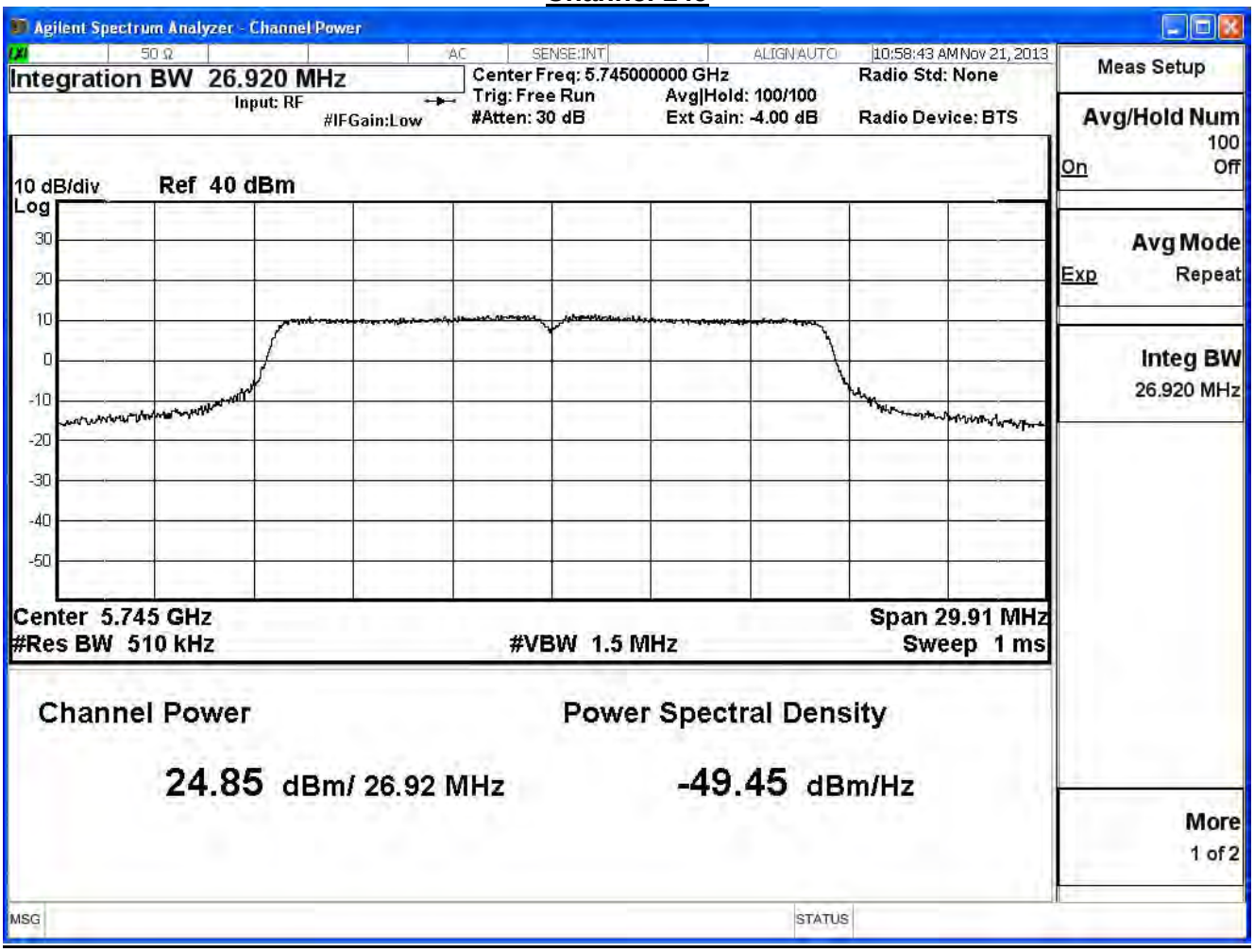
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	24.85	--	--	--	--	--	--	30dBm
157	5785	24.92	24.68	24.58	24.47	24.23	24.11	23.97	30dBm
165	5825	24.52	--	--	--	--	--	--	30dBm

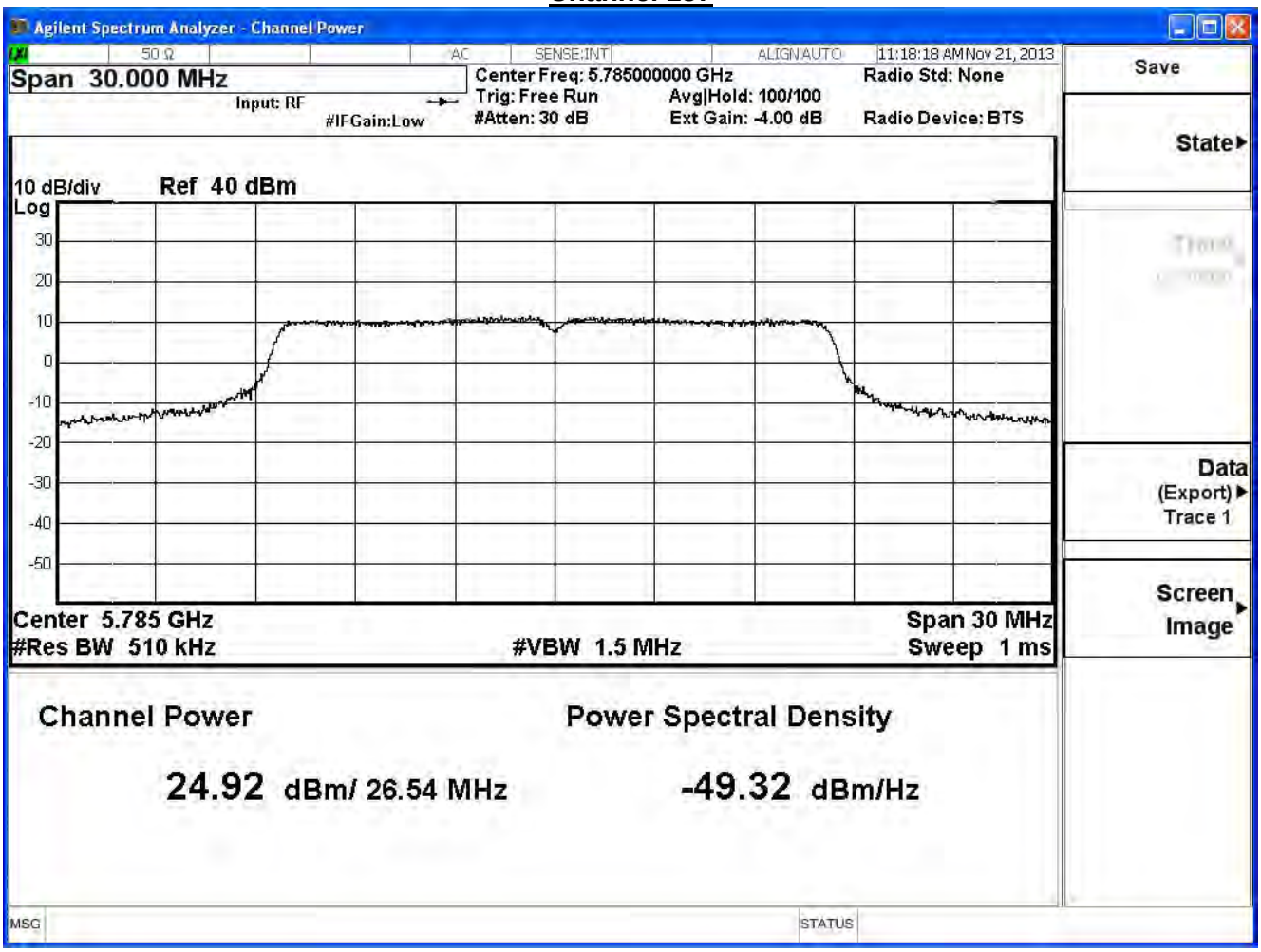
Note: Measure Level =Reading value + cable loss

Directional antenna : Beamforming Gain + Max Gain = 7.01dBi
Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

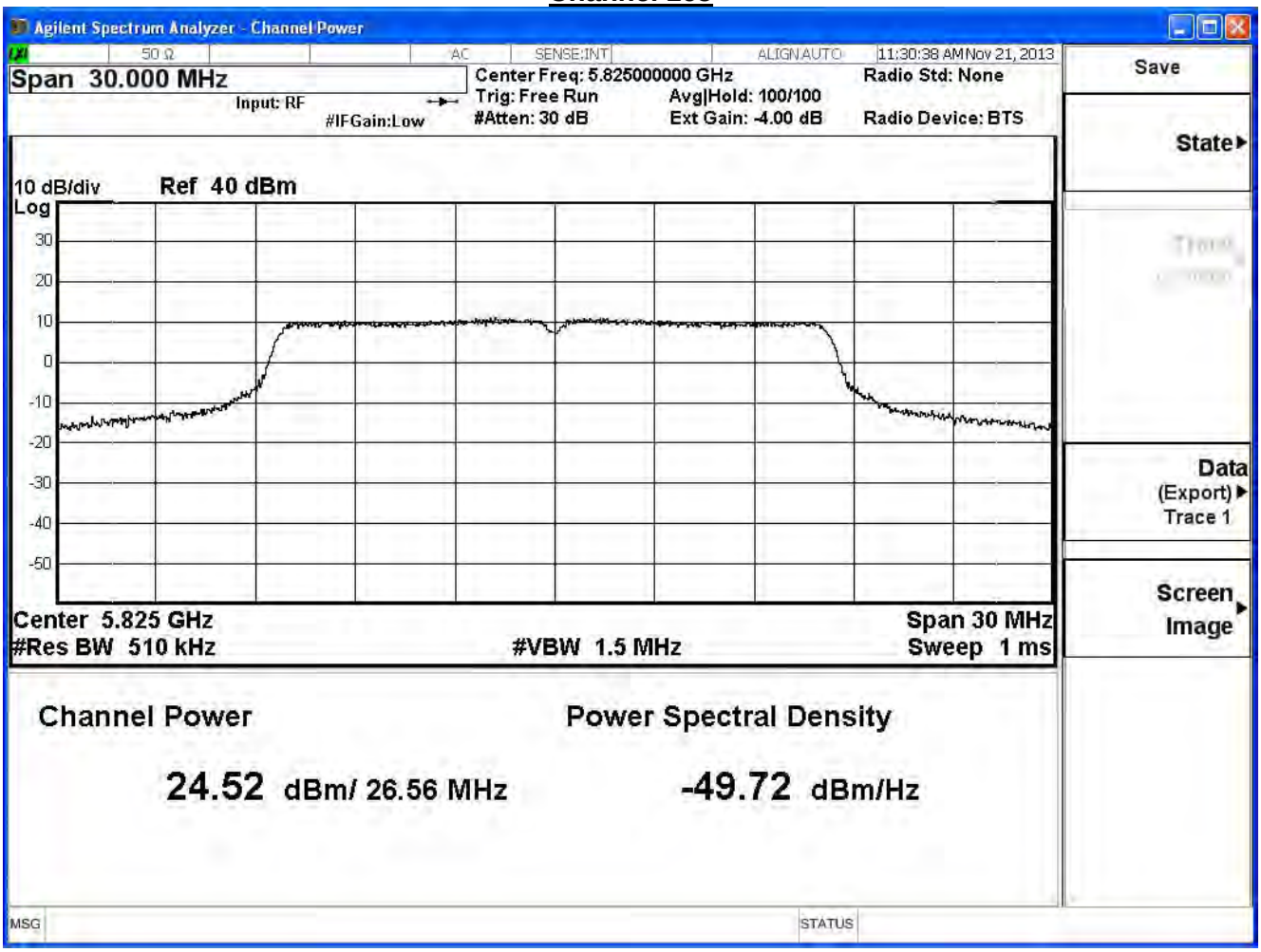
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:58:43 AM Nov 21, 2013
Integration BW 26.920 MHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
26.920 MHz
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 29.91 MHz
Sweep 1 ms
Channel Power
24.85 dBm/ 26.92 MHz
Power Spectral Density
-49.45 dBm/Hz
More
1 of 2
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:18:18 AM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Save
State
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Data
(Export)
Trace 1
Screen
Image
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
24.92 dBm/ 26.54 MHz
Power Spectral Density
-49.32 dBm/Hz
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:30:38 AM Nov 21, 2013
Span 30.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Save
State
10 dB/div
Log
Ref 40 dBm
30
20
10
0
-10
-20
-30
-40
-50
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Data
(Export)
Trace 1
Screen
Image
Channel Power
24.52 dBm/ 26.56 MHz
Power Spectral Density
-49.72 dBm/Hz
MSG
STATUS

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.83	≦28.99	Pass
157	5785	22.87	≦28.99	Pass
165	5825	22.76	≦28.99	Pass

The worst emission of data rate is 13 Mbps.

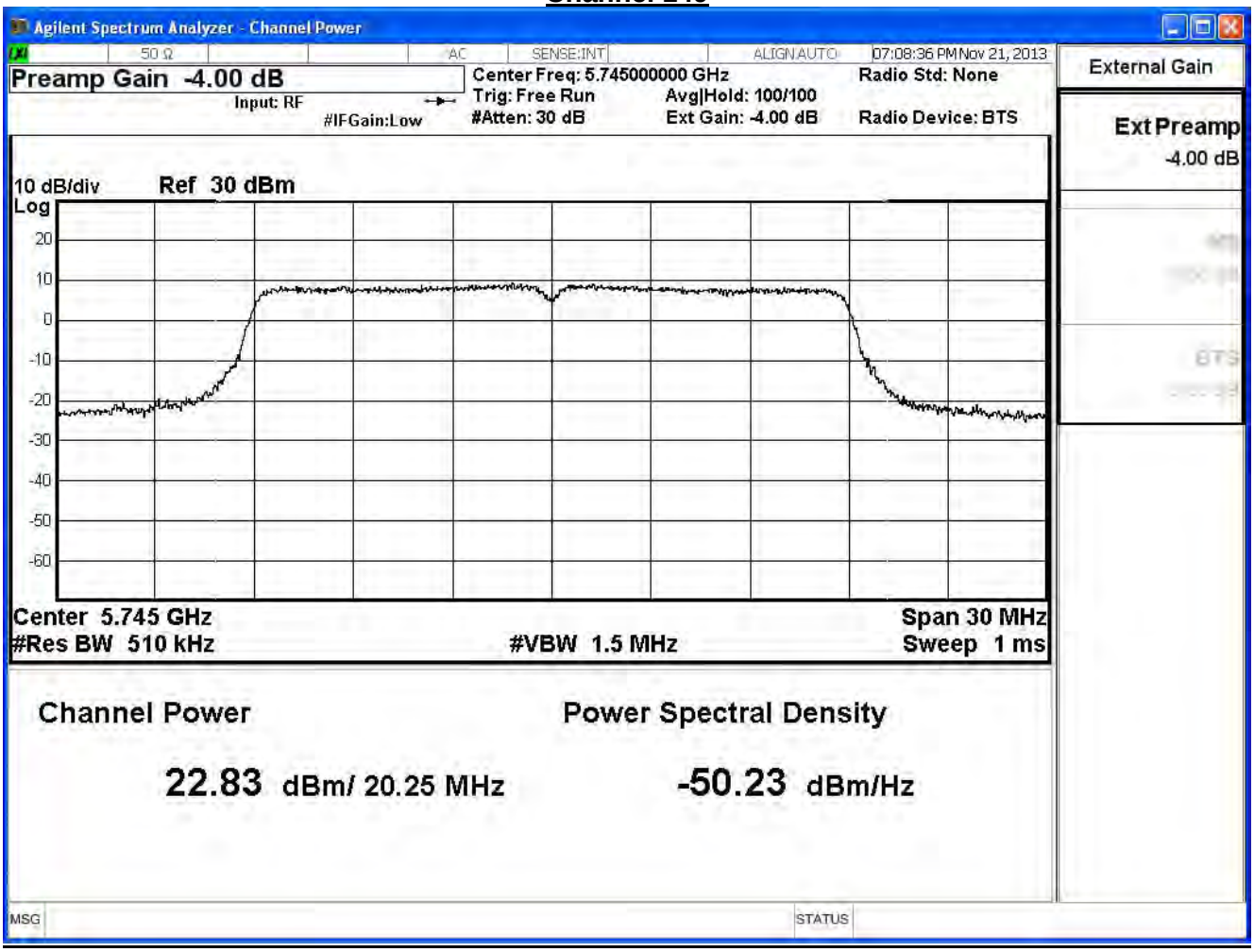
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	22.83	--	--	--	--	--	--	--	28.99dBm
157	5785	22.87	22.76	22.56	22.36	22.24	22.12	21.97	21.85	28.99dBm
165	5825	22.76	--	--	--	--	--	--	--	28.99dBm

Note: Measure Level =Reading value + cable loss

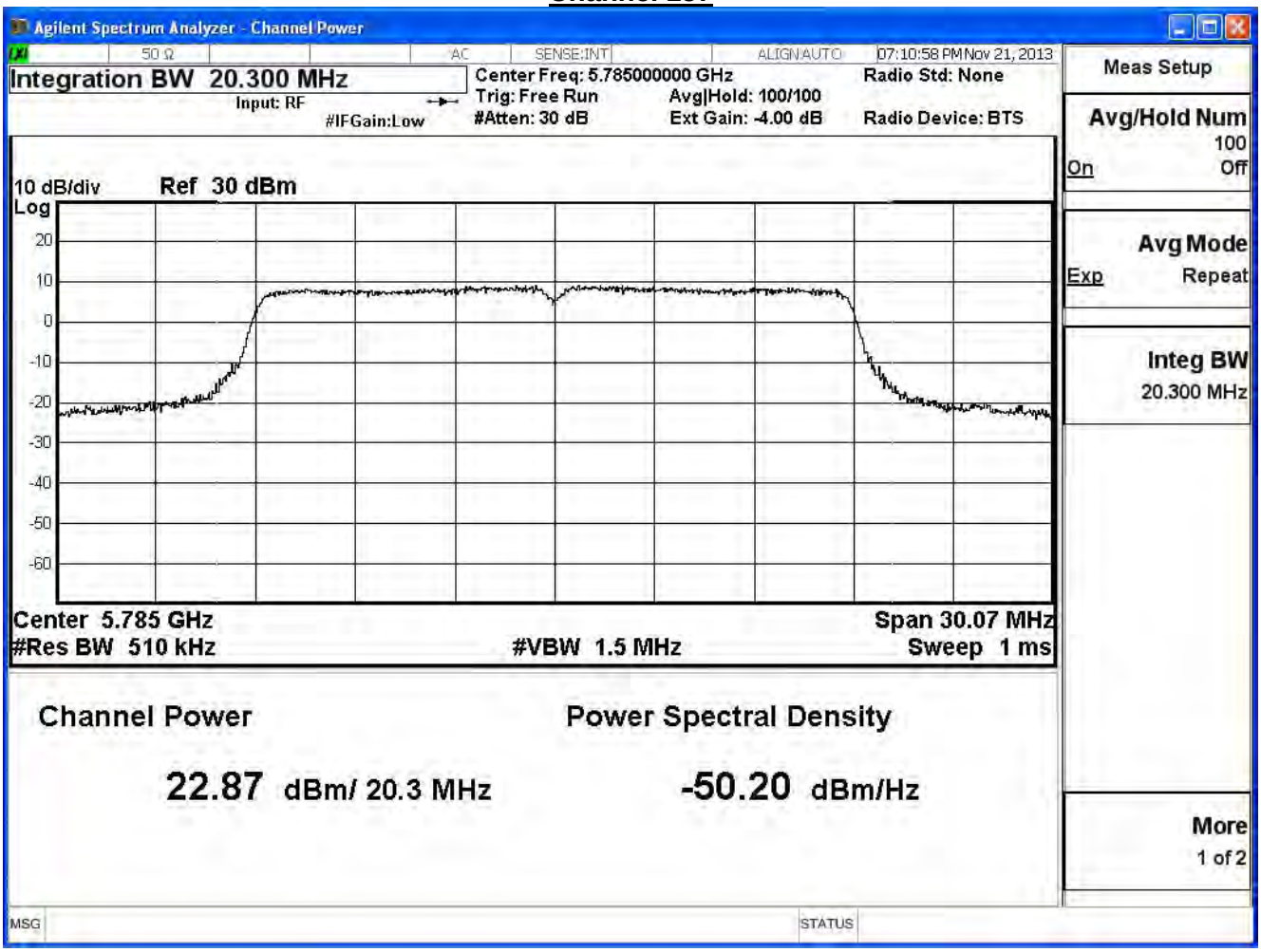
Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

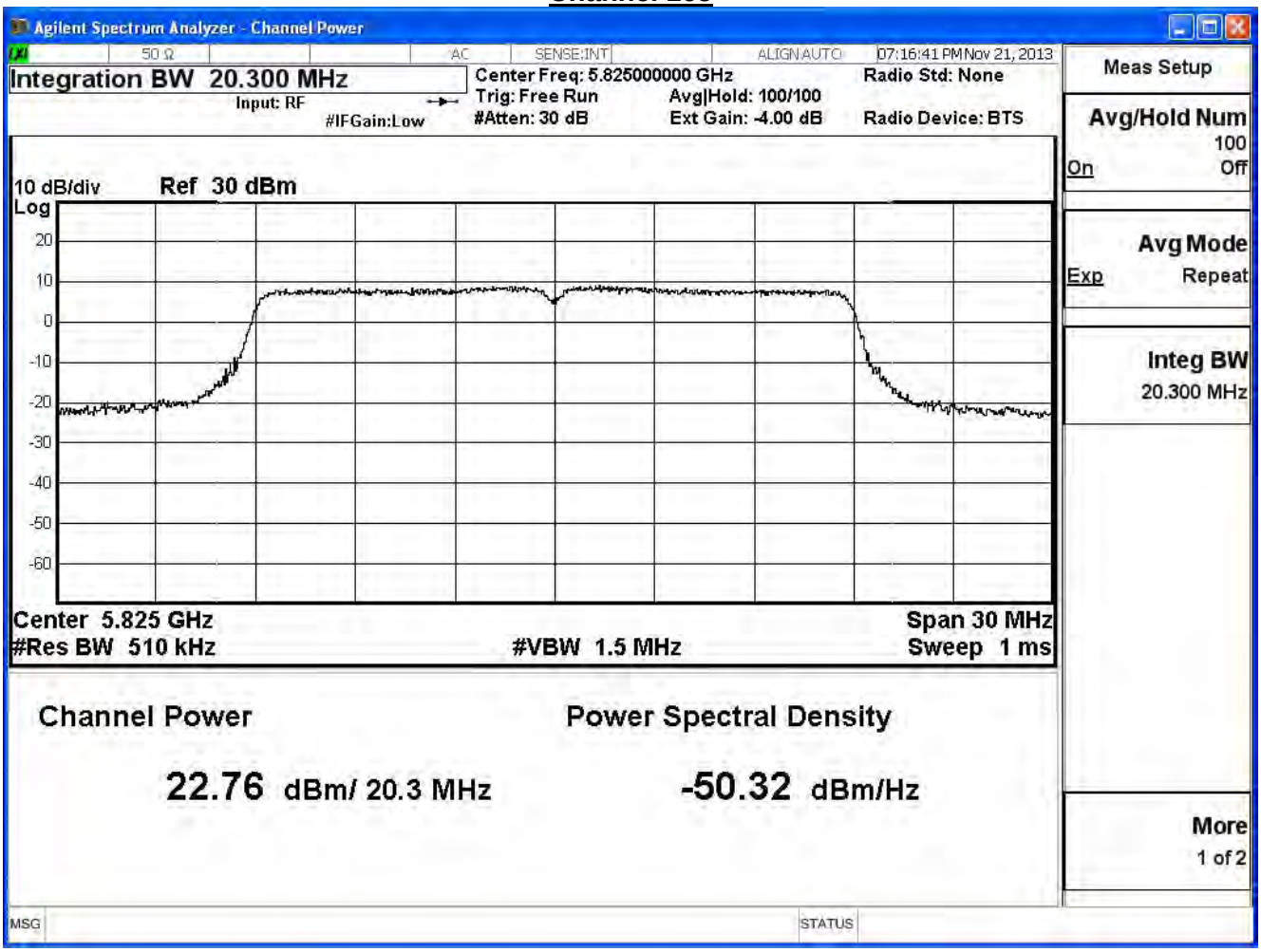
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:08:36 PM Nov 21, 2013
Preamp Gain -4.00 dB
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
External Gain
Ext Preamp
-4.00 dB
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.83 dBm/ 20.25 MHz
Power Spectral Density
-50.23 dBm/Hz
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:10:58 PM Nov 21, 2013
Integration BW 20.300 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
20.300 MHz
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30.07 MHz
Sweep 1 ms
Channel Power
22.87 dBm/ 20.3 MHz
Power Spectral Density
-50.20 dBm/Hz
More
1 of 2
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:16:41 PM Nov 21, 2013
Integration BW 20.300 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
20.300 MHz
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.76 dBm/ 20.3 MHz
Power Spectral Density
-50.32 dBm/Hz
More
1 of 2
MSG
STATUS

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	22.27	≦28.99	Pass
157	5785	22.39	≦28.99	Pass
165	5825	22.11	≦28.99	Pass

The worst emission of data rate is 13 Mbps.

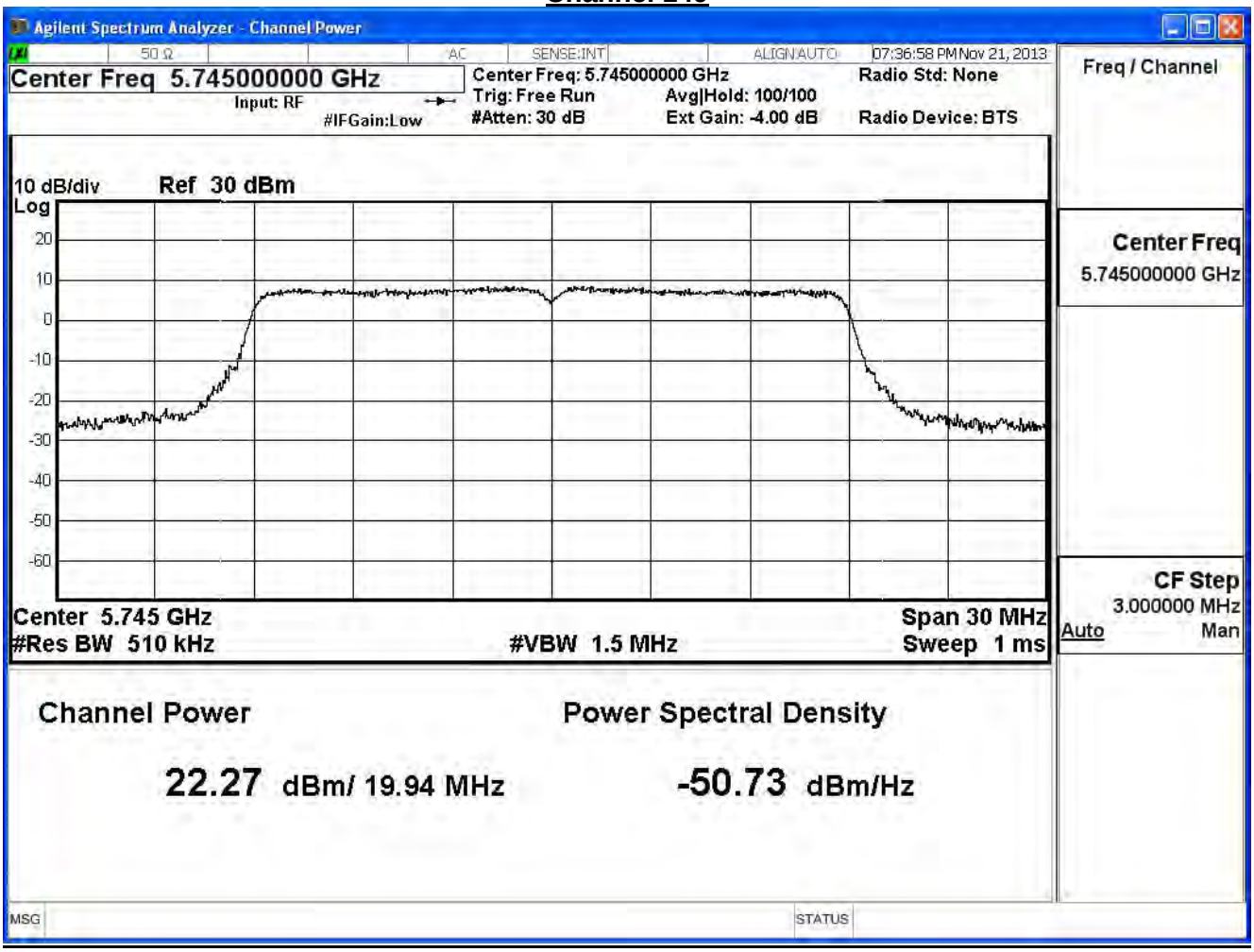
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	22.27	--	--	--	--	--	--	--	28.99dBm
157	5785	22.39	22.29	22.17	22.07	21.87	21.74	21.62	21.38	28.99dBm
165	5825	22.11	--	--	--	--	--	--	--	28.99dBm

Note: Measure Level =Reading value + cable loss

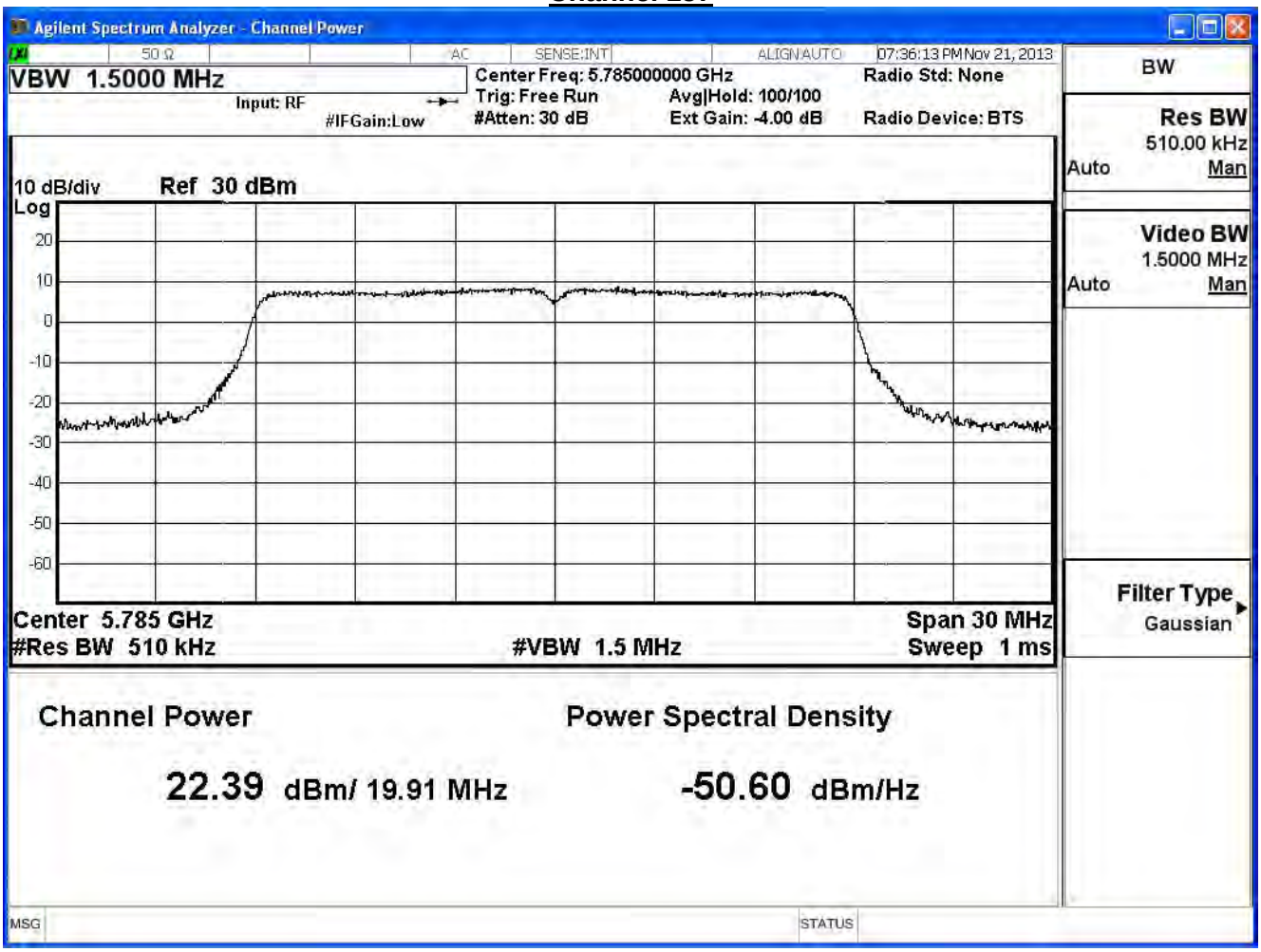
Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

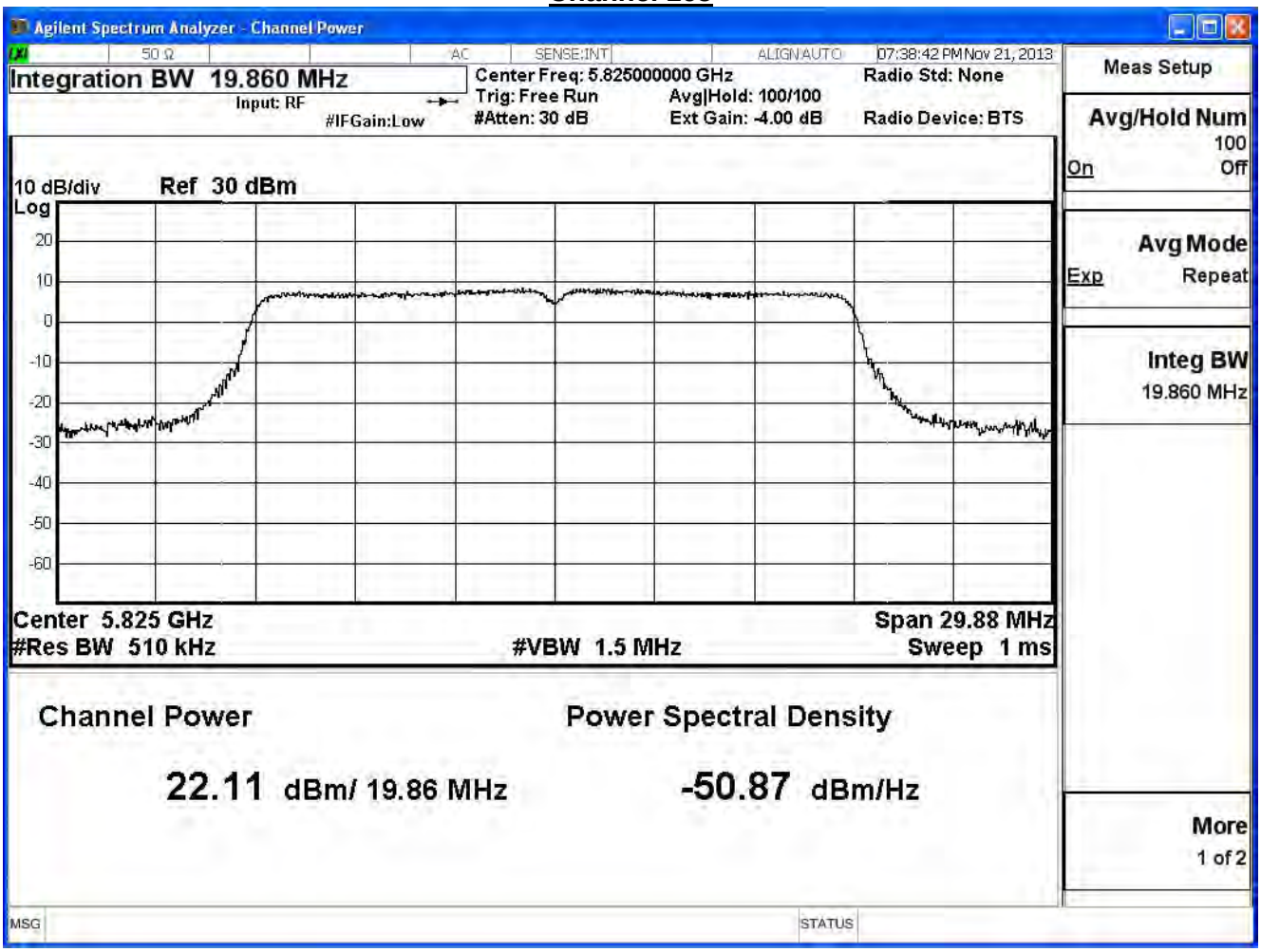
Channel 149


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:36:58 PM Nov 21, 2013
Center Freq 5.745000000 GHz
Input: RF
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
5.745000000 GHz
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
22.27 dBm/ 19.94 MHz
Power Spectral Density
-50.73 dBm/Hz
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:36:13 PM Nov 21, 2013
VBW 1.5000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
BW
Res BW
510.00 kHz
Auto
Man
Video BW
1.5000 MHz
Auto
Man
Filter Type
Gaussian
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1 ms
Channel Power
22.39 dBm/ 19.91 MHz
Power Spectral Density
-50.60 dBm/Hz
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:38:42 PM Nov 21, 2013
Integration BW 19.860 MHz
Input: RF
#IFGain:Low
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Meas Setup
Avg/Hold Num
100
On
Off
Avg Mode
Exp
Repeat
Integ BW
19.860 MHz
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 29.88 MHz
Sweep 1 ms
Channel Power
22.11 dBm/ 19.86 MHz
Power Spectral Density
-50.87 dBm/Hz
More
1 of 2
MSG
STATUS

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	25.57	≦28.99	Pass
157	5785	25.65	≦28.99	Pass
165	5825	25.46	≦28.99	Pass

The worst emission of data rate is 13 Mbps.

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13	26	39	52	78	104	117	130	
149	5745	25.57	--	--	--	--	--	--	--	28.99dBm
157	5785	25.65	25.54	25.43	25.33	25.11	24.99	24.77	24.53	28.99dBm
165	5825	25.46	--	--	--	--	--	--	--	28.99dBm

Note: Measure Level =Reading value + cable loss

Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	22.77	≦28.99	Pass
159	5795	22.86	≦28.99	Pass

The worst emission of data rate is 27Mbps

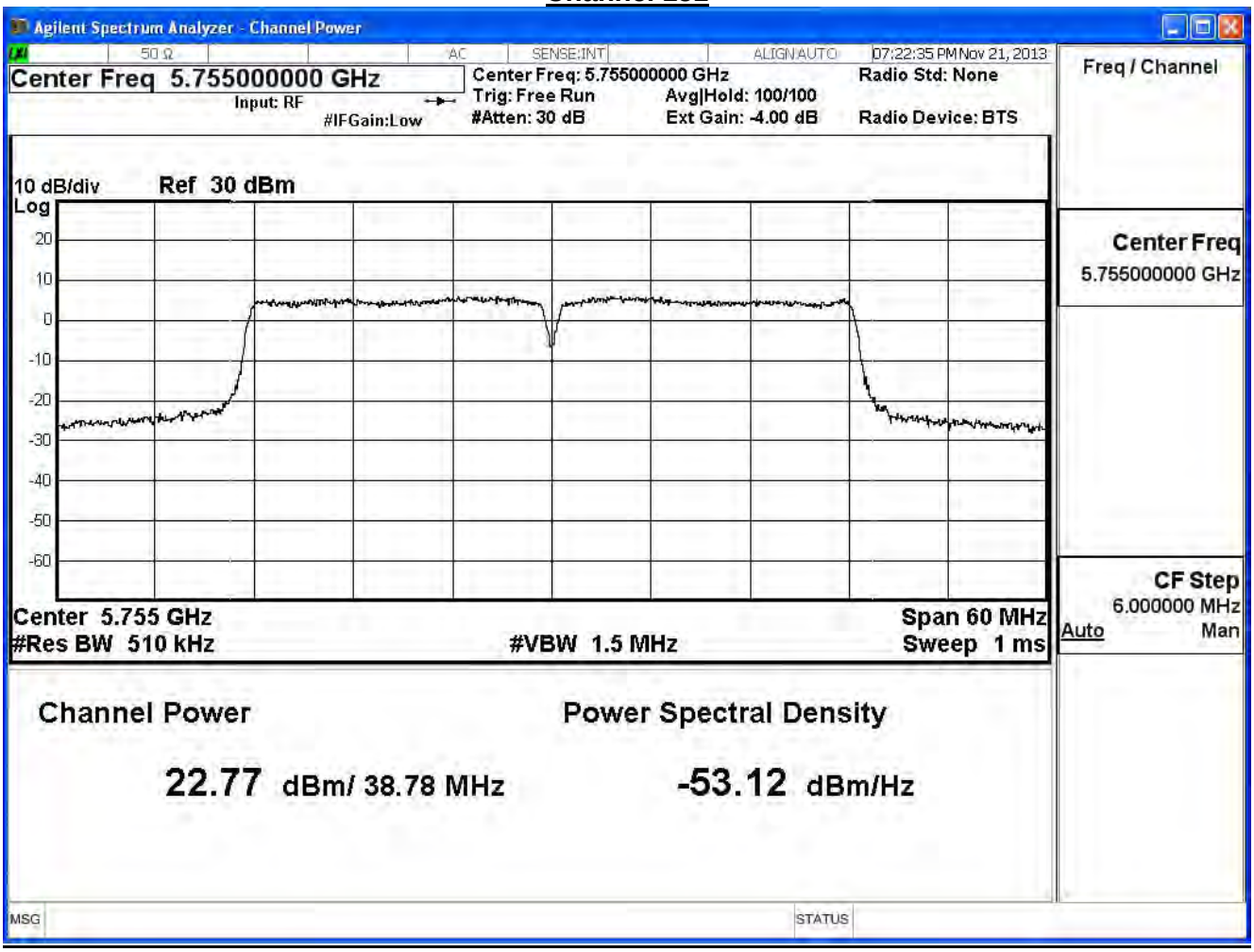
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	22.77	--	--	--	--	--	--	--	28.99dBm
159	5795	22.86	22.66	22.46	22.36	22.26	22.02	21.90	21.66	28.99dBm

Note: Measure Level =Reading value + cable loss

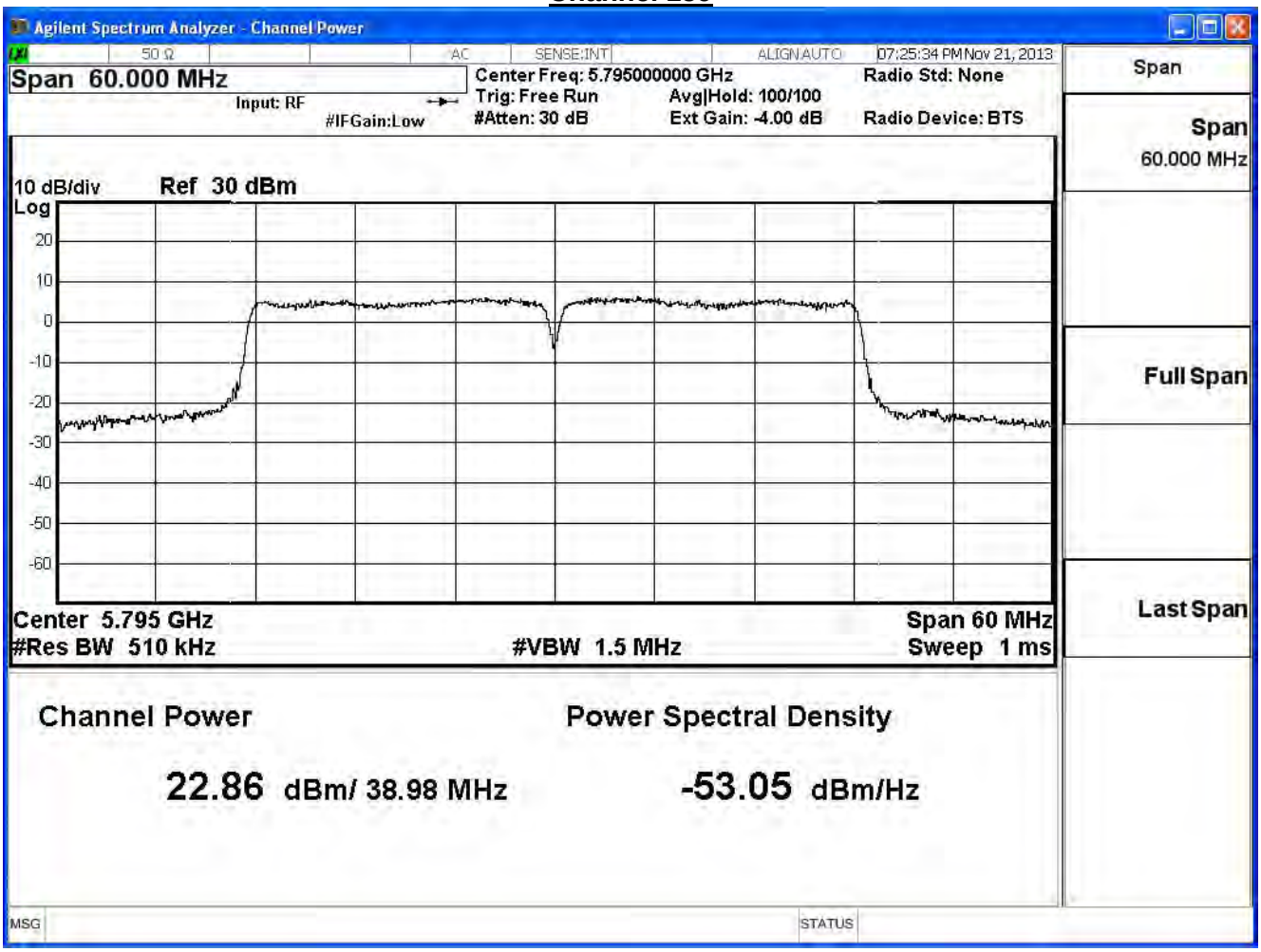
Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Channel 151


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:22:35 PM Nov 21, 2013
Center Freq 5.755000000 GHz
Input: RF
#IFGain:Low
Center Freq: 5.755000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
5.755000000 GHz
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
22.77 dBm/ 38.78 MHz
Power Spectral Density
-53.12 dBm/Hz
MSG
STATUS

Channel 159


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:25:34 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.86 dBm/ 38.98 MHz
Power Spectral Density
-53.05 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	22.21	≦28.99	Pass
159	5795	22.39	≦28.99	Pass

The worst emission of data rate is 27Mbps

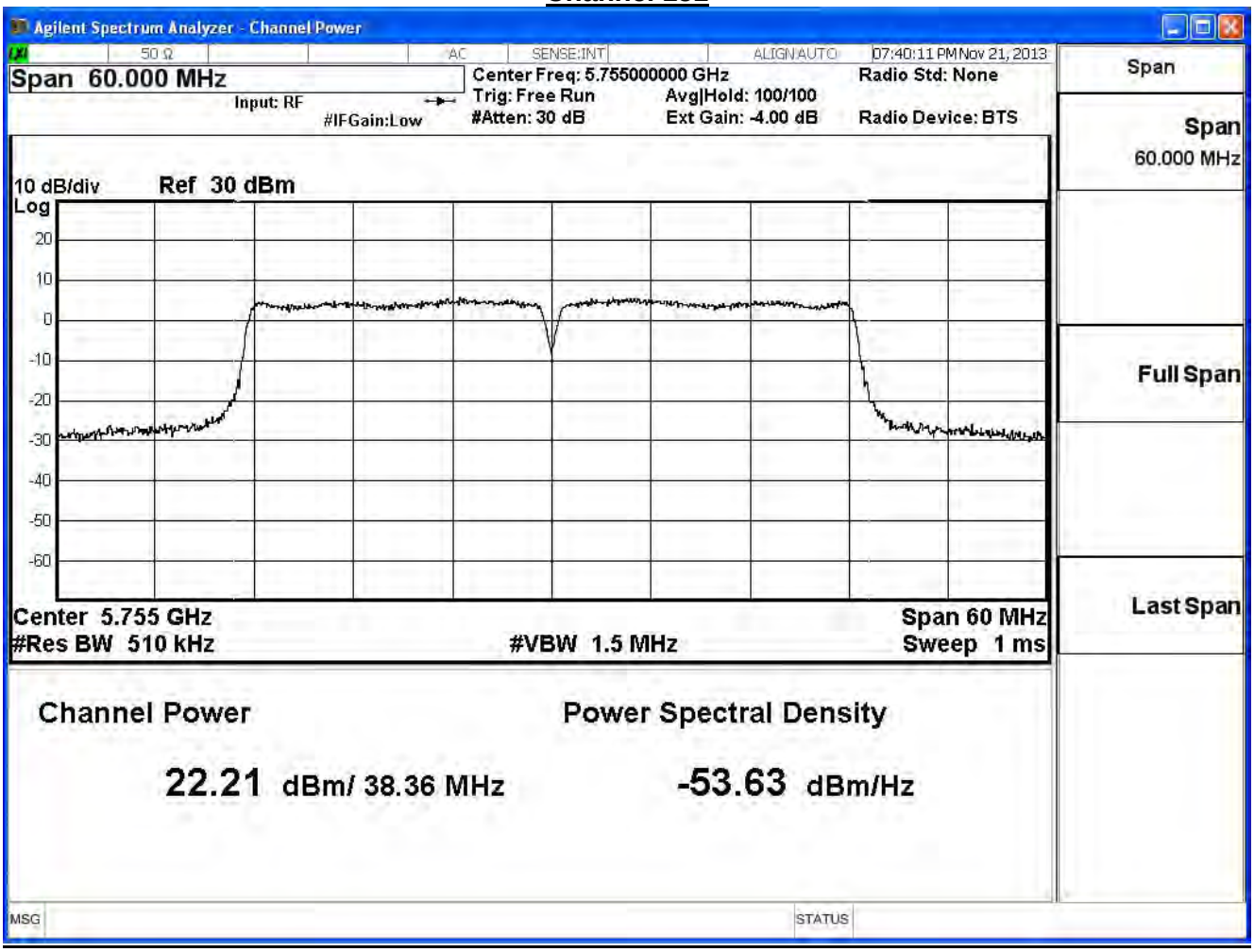
Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	22.21	--	--	--	--	--	--	--	28.99dBm
159	5795	22.39	22.29	22.19	21.99	21.79	21.55	21.31	21.07	28.99dBm

Note: Measure Level =Reading value + cable loss

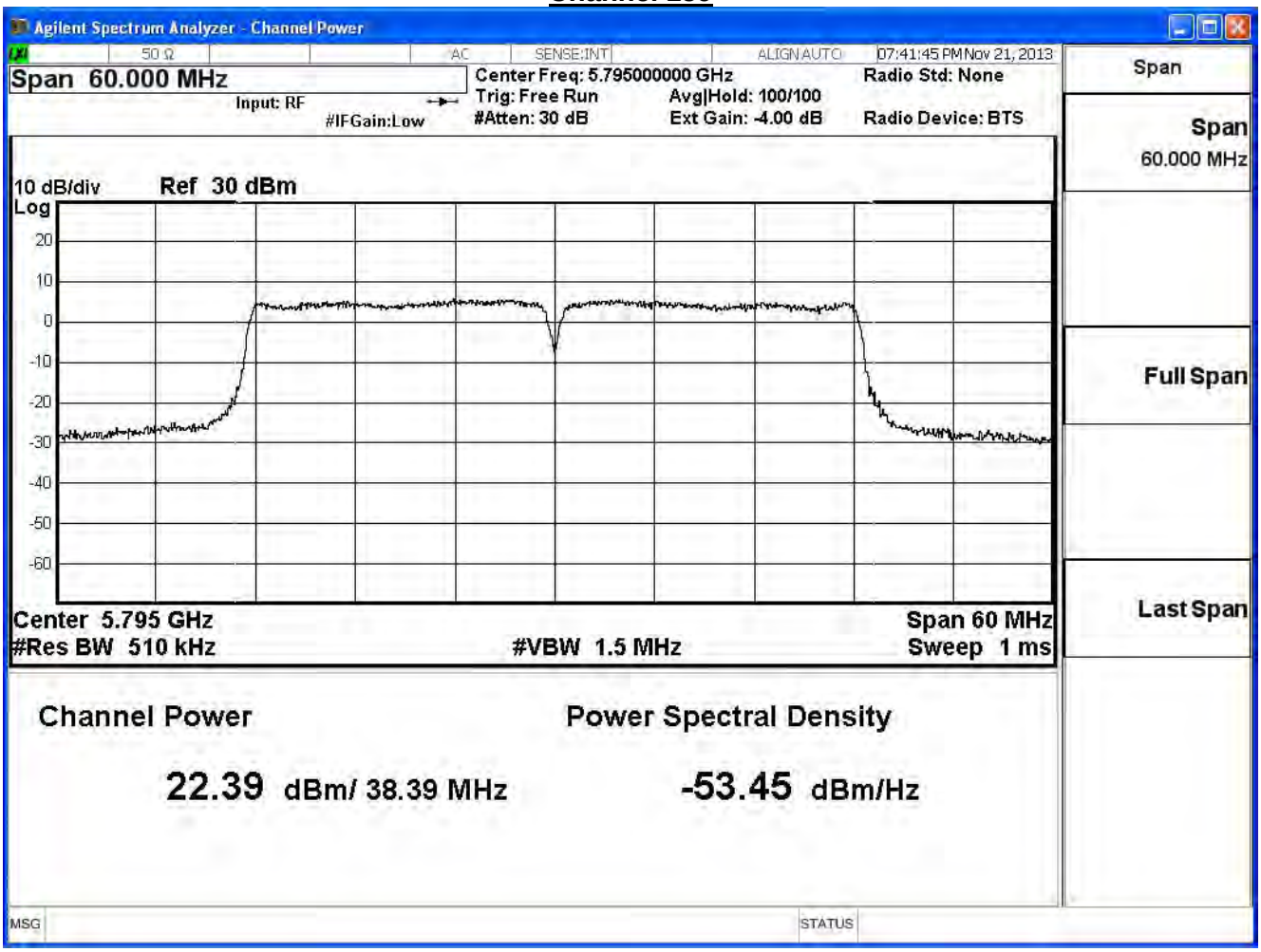
Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Channel 151


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:40:11 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.755000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.21 dBm/ 38.36 MHz
Power Spectral Density
-53.63 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Channel 159


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:41:45 PM Nov 21, 2013
Span 60.000 MHz
Input: RF
#IFGain:Low
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Ext Gain: -4.00 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1 ms
Channel Power
22.39 dBm/ 38.39 MHz
Power Spectral Density
-53.45 dBm/Hz
MSG
STATUS
Span
Span
60.000 MHz
Full Span
Last Span

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	25.51	≦28.99	Pass
159	5795	25.64	≦28.99	Pass

The worst emission of data rate is 27Mbps

Peak Power Output (dBm)										
MCS Index		8	9	10	11	12	13	14	15	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		27	54	81	108	162	216	243	270	
151	5755	25.51	--	--	--	--	--	--	--	28.99dBm
159	5795	25.64	25.49	25.34	25.19	25.04	24.80	24.63	24.39	28.99dBm

Note: Measure Level =Reading value + cable loss

Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	22.78	≦28.99	Pass

The worst emission of data rate is 87.9 Mbps.

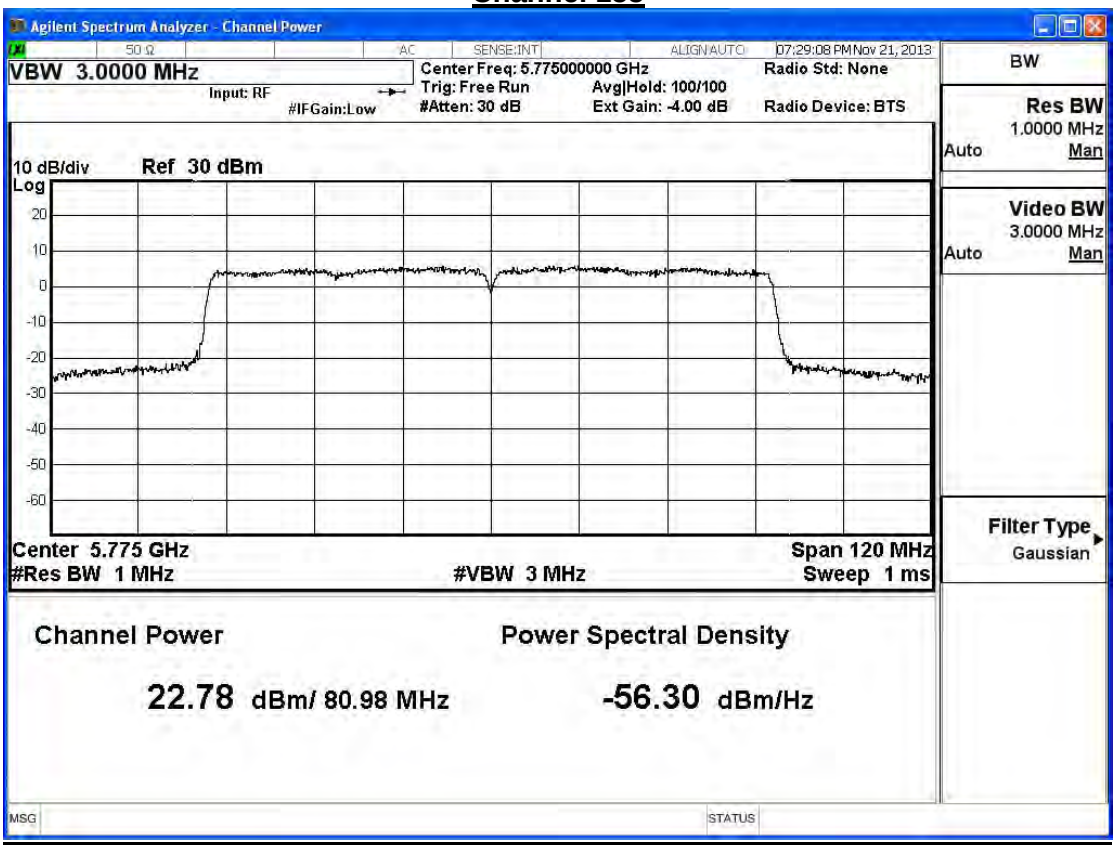
Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170
155	5775	22.78	22.68	22.58	22.48	22.28	22.08	21.96	21.72	21.60	21.36

Note: Measure Level =Reading value + cable loss

Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Channel 155



Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/21	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	21.97	≦28.99	Pass

The worst emission of data rate is 87.9 Mbps.

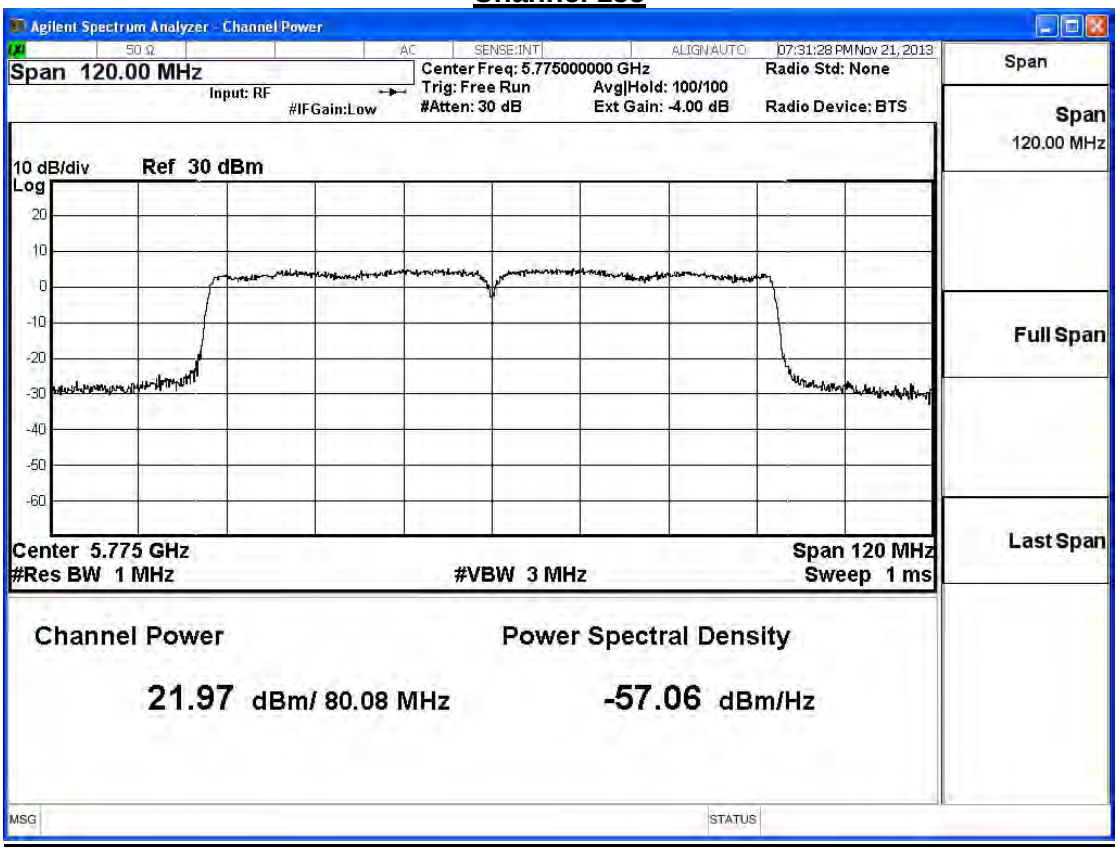
Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170
155	5775	21.97	21.77	21.57	21.47	21.37	21.27	21.03	20.79	20.55	20.31

Note: Measure Level =Reading value + cable loss

Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

Channel 155



Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (Beamforming mode)		
Date of Test	2013/11/213	Test Site	SR7

IEEE 802.11ac 80MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	25.40	≦28.99	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
Channel No	Frequency (MHz)	Data Rate									
		87.9	175.5	263.4	351	526.5	702	789.9	877.5	1053	1170
155	5775	25.40	25.26	25.11	25.01	24.86	24.70	24.53	24.29	24.12	23.88

Note: Measure Level =Reading value + cable loss

Directional antenna : 10log(N) + Max Gain = 7.01dBi

Required Limit = 30dBm - (7.01dBi - 6dB) = 28.99 dBm

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

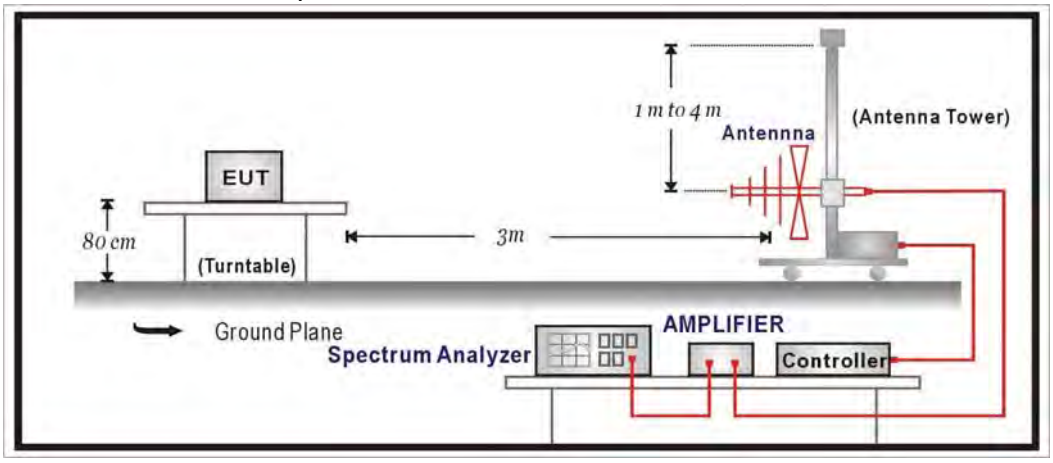
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2014/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Pre-Amplifier	MITEQ	AMF-4D	888003	2014/06/09
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2014/02/19
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

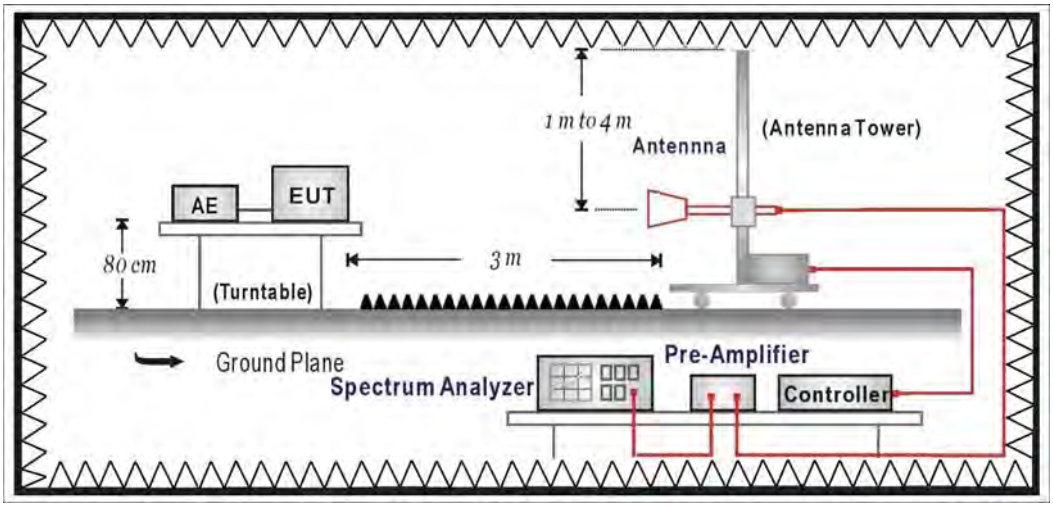
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	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 Oct. 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: 2012

4.6. Uncertainty

The measurement uncertainty

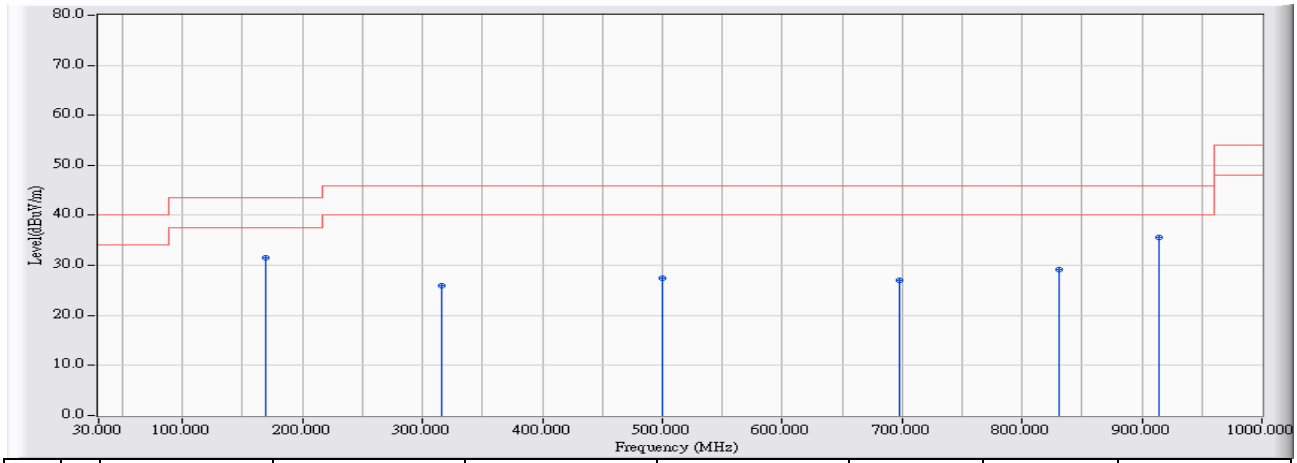
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2013/12/07 - 14:56**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2437MHz**

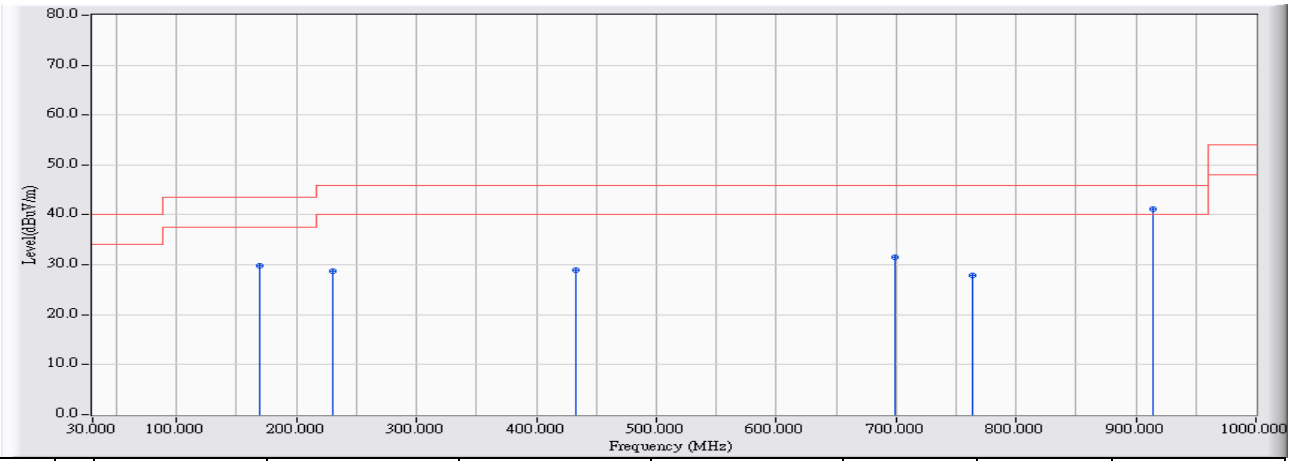


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		169.680	-24.287	55.849	31.561	-11.939	43.500	QUASIPEAK
2		316.150	-19.644	45.613	25.969	-20.031	46.000	QUASIPEAK
3		500.450	-15.617	43.165	27.548	-18.452	46.000	QUASIPEAK
4		697.360	-15.021	42.050	27.029	-18.971	46.000	QUASIPEAK
5		830.250	-13.508	42.618	29.110	-16.890	46.000	QUASIPEAK
6	*	914.640	-13.224	48.755	35.532	-10.468	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 : 2013/12/07 - 14:59**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2437MHz**

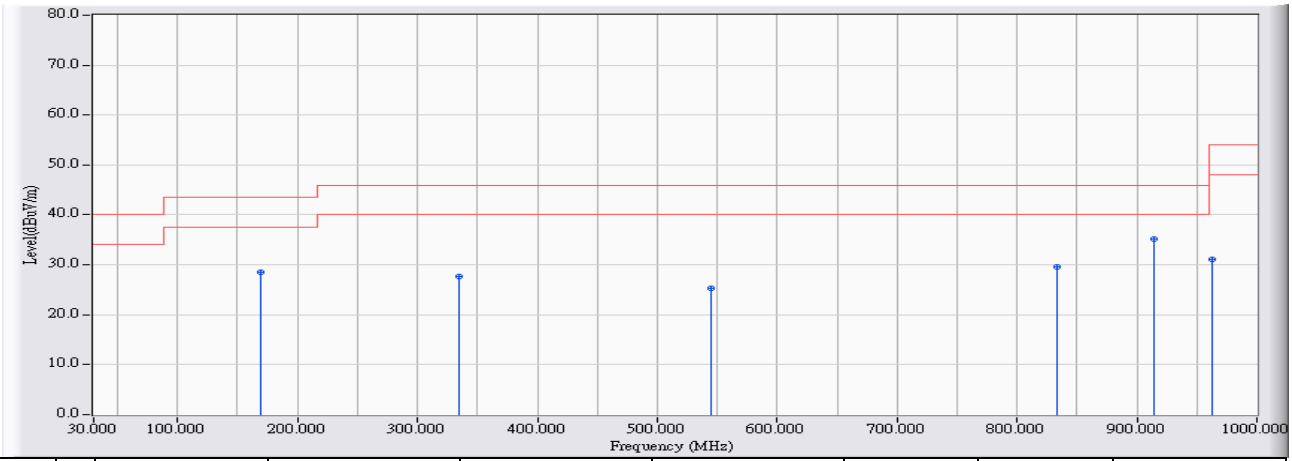


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.710	-24.245	54.120	29.875	-13.625	43.500	QUASIPEAK
2		230.790	-22.483	51.323	28.839	-17.161	46.000	QUASIPEAK
3		432.550	-16.918	45.864	28.946	-17.054	46.000	QUASIPEAK
4		699.300	-15.011	46.450	31.439	-14.561	46.000	QUASIPEAK
5		763.320	-14.107	42.071	27.964	-18.036	46.000	QUASIPEAK
6	*	914.640	-13.224	54.468	41.245	-4.755	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 : 2013/12/07 - 15:02**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

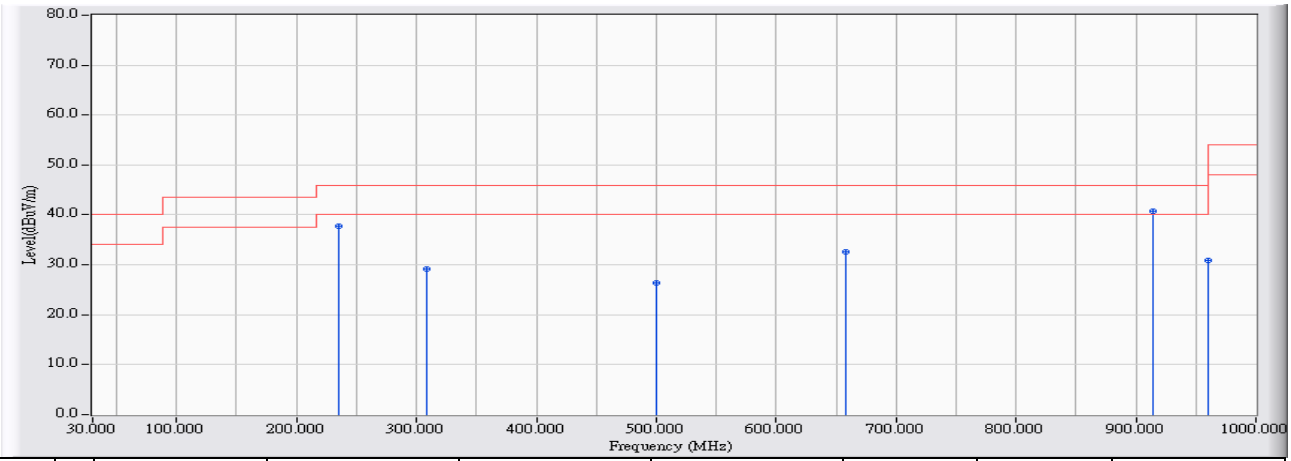


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		169.680	-24.287	52.899	28.611	-14.889	43.500	QUASIPEAK
2		334.580	-19.182	46.786	27.603	-18.397	46.000	QUASIPEAK
3		545.070	-15.572	40.931	25.359	-20.641	46.000	QUASIPEAK
4		833.160	-13.501	43.001	29.501	-16.499	46.000	QUASIPEAK
5	*	914.640	-13.224	48.379	35.156	-10.844	46.000	QUASIPEAK
6		963.140	-12.875	43.918	31.043	-22.957	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 : 2013/12/07 - 15:04**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

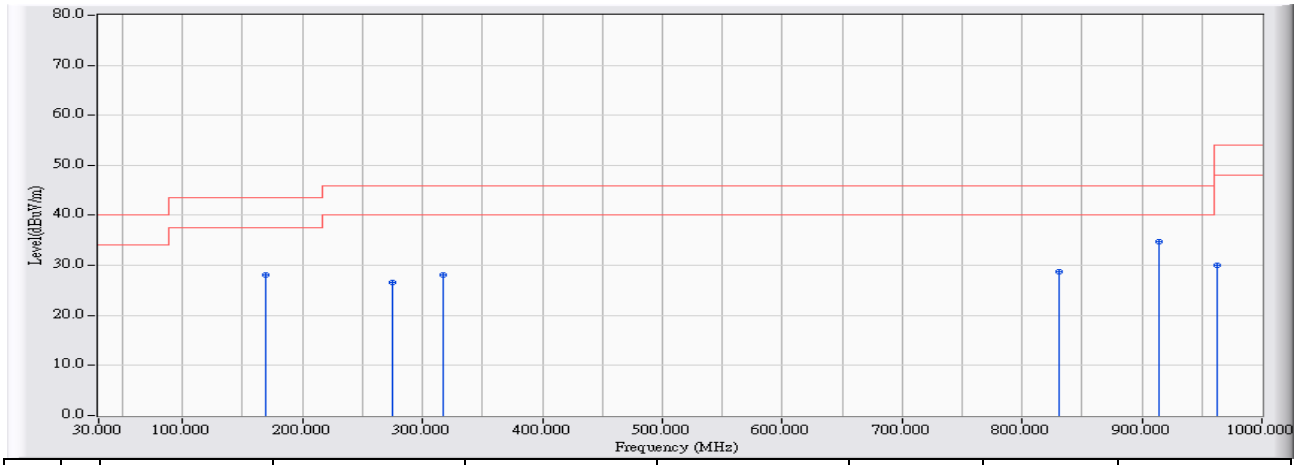


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		235.640	-22.113	59.833	37.720	-8.280	46.000	QUASIPEAK
2		308.390	-19.839	48.920	29.082	-16.918	46.000	QUASIPEAK
3		500.450	-15.617	42.092	26.475	-19.525	46.000	QUASIPEAK
4		658.560	-15.218	47.763	32.545	-13.455	46.000	QUASIPEAK
5	*	914.640	-13.224	54.024	40.801	-5.199	46.000	QUASIPEAK
6		960.230	-12.896	43.690	30.794	-23.206	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 : 2013/12/07 - 15:08**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

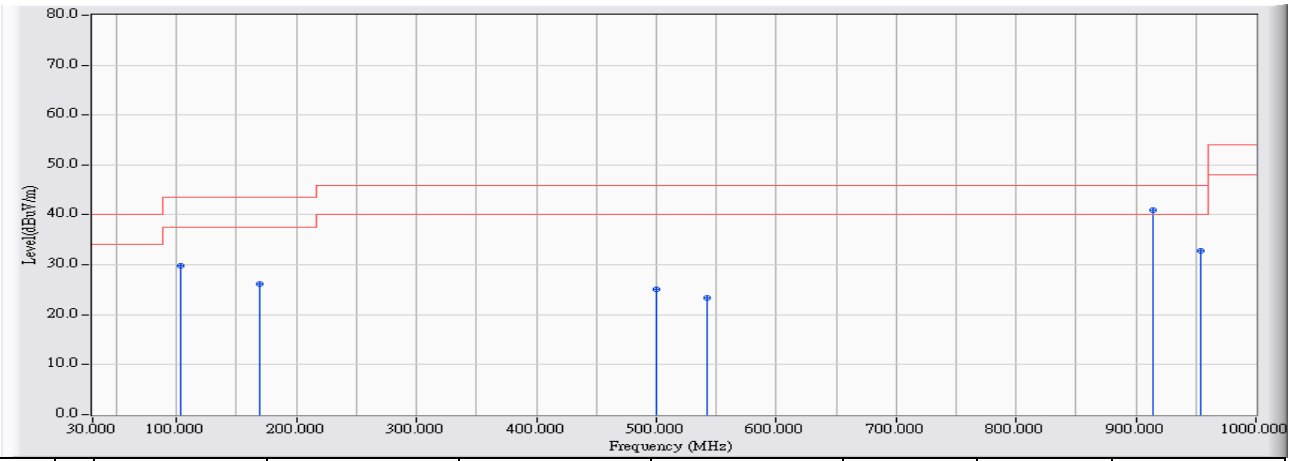


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.710	-24.245	52.322	28.077	-15.423	43.500	QUASIPEAK
2		275.410	-20.525	47.211	26.687	-19.313	46.000	QUASIPEAK
3		317.120	-19.619	47.688	28.068	-17.932	46.000	QUASIPEAK
4		830.250	-13.508	42.308	28.800	-17.200	46.000	QUASIPEAK
5	*	914.640	-13.224	47.894	34.671	-11.329	46.000	QUASIPEAK
6		963.140	-12.875	42.814	29.939	-24.061	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 : 2013/12/07 - 15:11**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

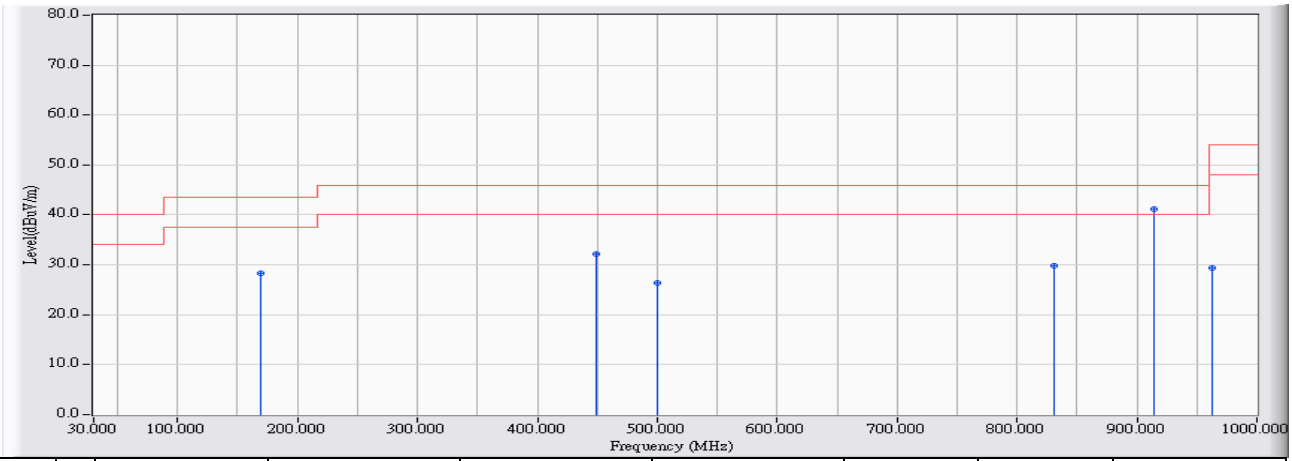


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		103.720	-22.975	52.811	29.835	-13.665	43.500	QUASIPEAK
2		168.710	-24.245	50.391	26.146	-17.354	43.500	QUASIPEAK
3		500.450	-15.617	40.671	25.054	-20.946	46.000	QUASIPEAK
4		542.160	-15.575	38.935	23.360	-22.640	46.000	QUASIPEAK
5	*	914.640	-13.224	54.130	40.907	-5.093	46.000	QUASIPEAK
6		954.410	-12.937	45.664	32.726	-13.274	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 : 2013/12/07 - 15:15**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

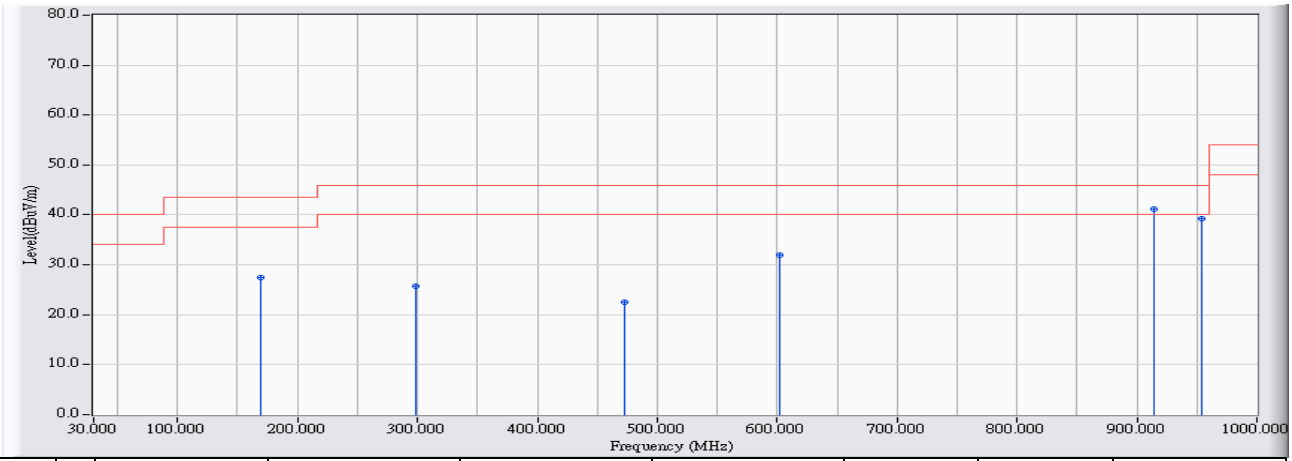


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.710	-24.245	52.562	28.317	-15.183	43.500	QUASIPEAK
2		449.040	-16.600	48.692	32.092	-13.908	46.000	QUASIPEAK
3		500.450	-15.617	42.013	26.396	-19.604	46.000	QUASIPEAK
4		830.250	-13.508	43.354	29.846	-16.154	46.000	QUASIPEAK
5	*	914.640	-13.224	54.450	41.227	-4.773	46.000	QUASIPEAK
6		963.140	-12.875	42.172	29.297	-24.703	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 : 2013/12/07 - 15:20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

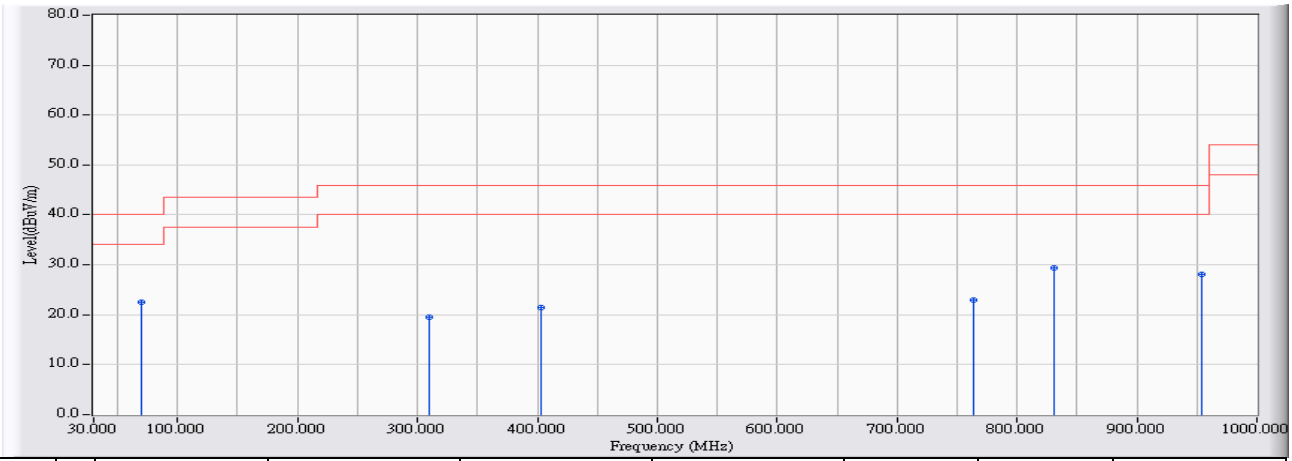


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.710	-24.245	51.712	27.467	-16.033	43.500	QUASIPEAK
2		298.690	-20.074	45.874	25.801	-20.199	46.000	QUASIPEAK
3		472.320	-16.151	38.721	22.570	-23.430	46.000	QUASIPEAK
4		602.300	-15.505	47.372	31.867	-14.133	46.000	QUASIPEAK
5	*	914.640	-13.224	54.449	41.226	-4.774	46.000	QUASIPEAK
6		954.410	-12.937	52.232	39.294	-6.706	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 : 2013/12/07 - 16:11**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

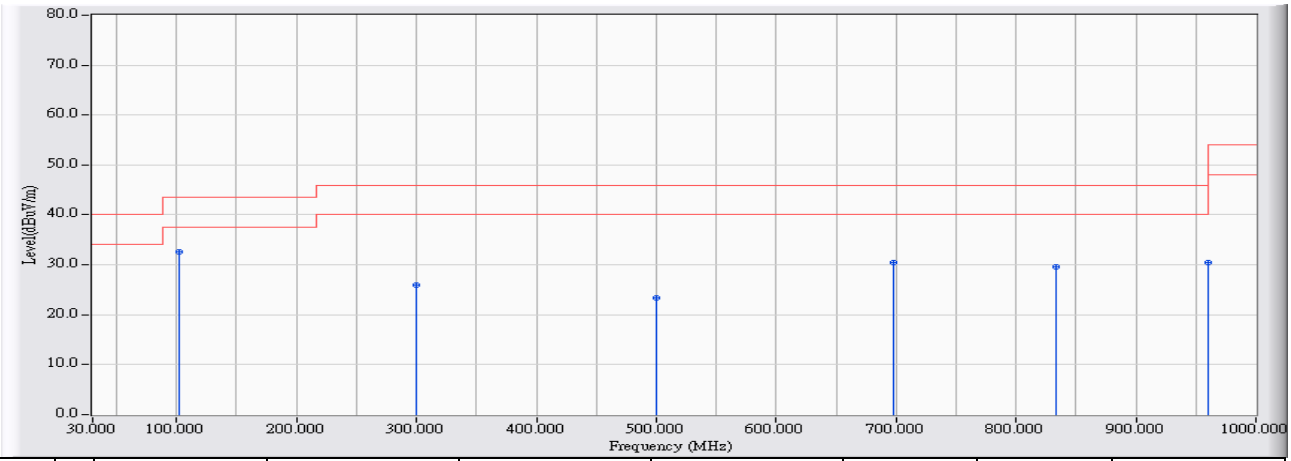


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		69.770	-27.463	50.041	22.579	-17.421	40.000	QUASIPEAK
2		310.330	-19.789	39.343	19.554	-26.446	46.000	QUASIPEAK
3		402.480	-17.498	38.892	21.394	-24.606	46.000	QUASIPEAK
4		763.320	-14.107	37.044	22.937	-23.063	46.000	QUASIPEAK
5	*	830.250	-13.508	42.868	29.360	-16.640	46.000	QUASIPEAK
6		954.410	-12.937	41.025	28.087	-17.913	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 : 2013/12/07 - 16:14**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

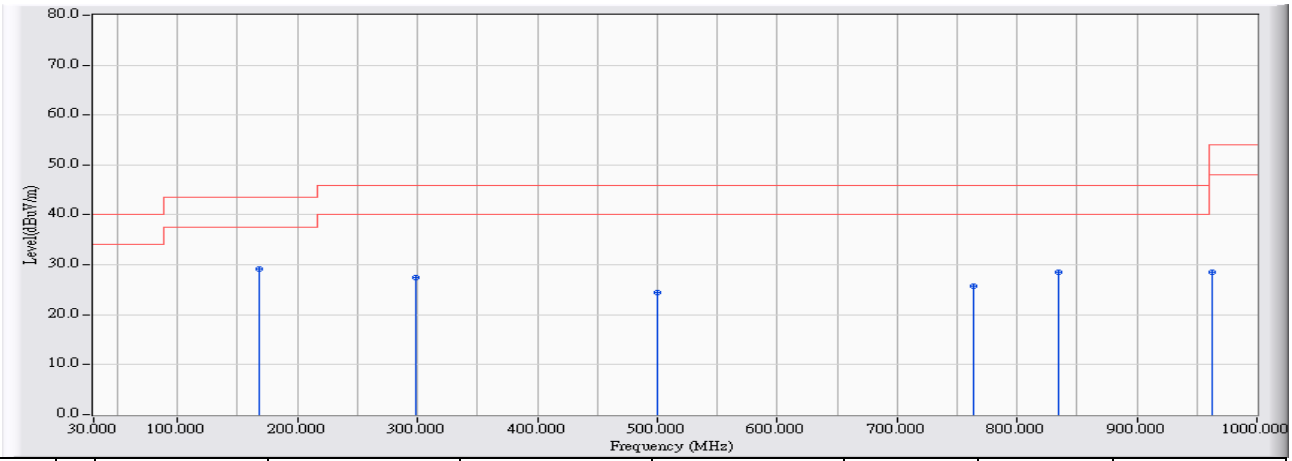


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.780	-23.070	55.569	32.499	-11.001	43.500	QUASIPEAK
2		299.660	-20.054	46.024	25.969	-20.031	46.000	QUASIPEAK
3		500.450	-15.617	39.052	23.435	-22.565	46.000	QUASIPEAK
4		697.360	-15.021	45.558	30.537	-15.463	46.000	QUASIPEAK
5		833.160	-13.501	43.178	29.678	-16.322	46.000	QUASIPEAK
6		960.230	-12.896	43.353	30.457	-23.543	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 : 2013/12/07 - 16:17**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

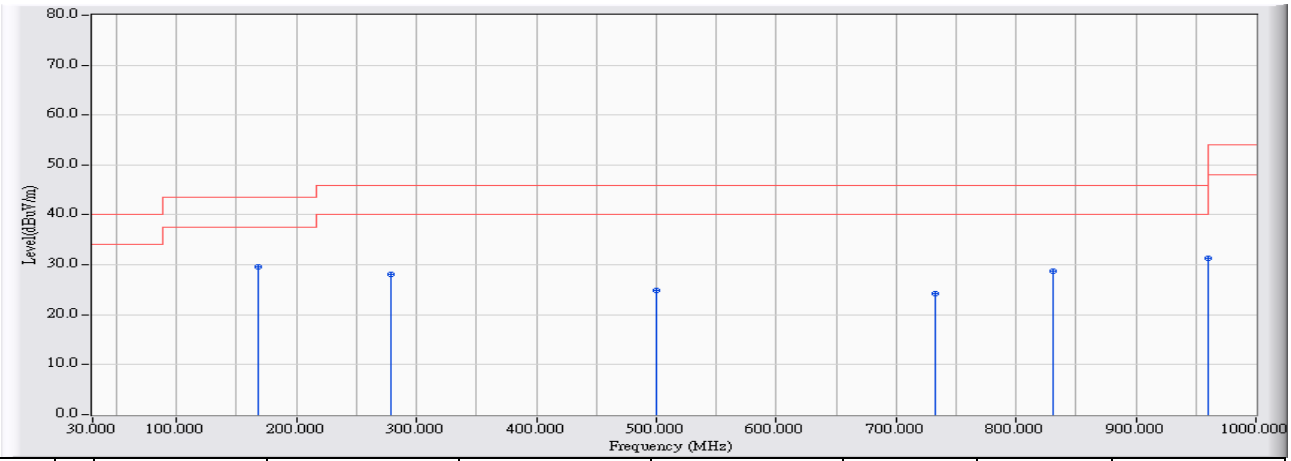


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	167.740	-24.202	53.299	29.096	-14.404	43.500	QUASIPEAK
2		298.690	-20.074	47.528	27.455	-18.545	46.000	QUASIPEAK
3		500.450	-15.617	40.110	24.493	-21.507	46.000	QUASIPEAK
4		763.320	-14.107	39.792	25.685	-20.315	46.000	QUASIPEAK
5		834.130	-13.498	41.939	28.441	-17.559	46.000	QUASIPEAK
6		963.140	-12.875	41.333	28.458	-25.542	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 : 2013/12/07 - 16:20**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

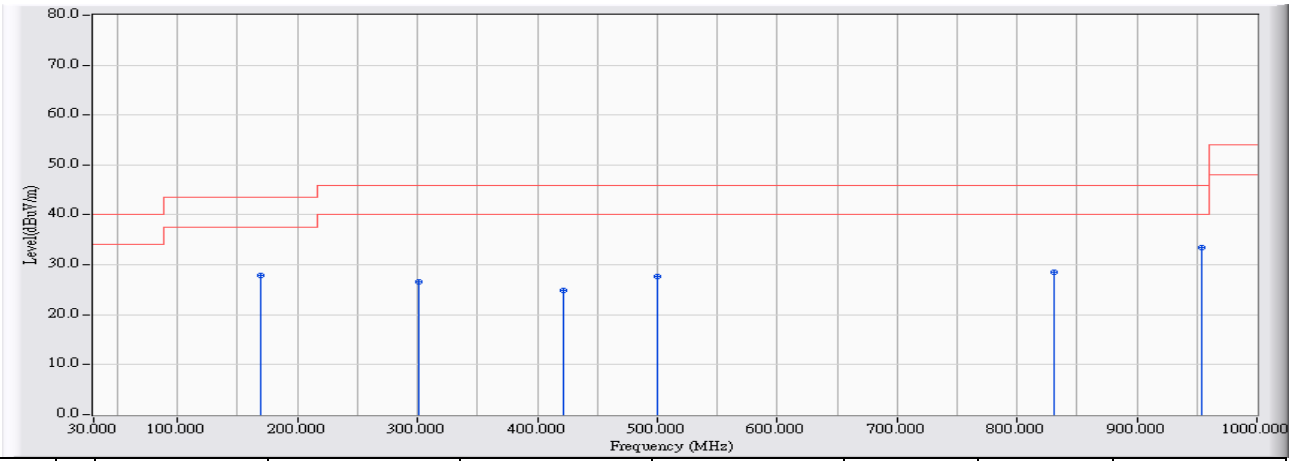


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	167.740	-24.202	53.733	29.530	-13.970	43.500	QUASIPEAK
2		278.320	-20.468	48.552	28.084	-17.916	46.000	QUASIPEAK
3		500.450	-15.617	40.432	24.815	-21.185	46.000	QUASIPEAK
4		732.280	-14.549	38.699	24.150	-21.850	46.000	QUASIPEAK
5		830.250	-13.508	42.215	28.707	-17.293	46.000	QUASIPEAK
6		960.230	-12.896	44.297	31.401	-22.599	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 : 2013/12/07 - 16:23**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

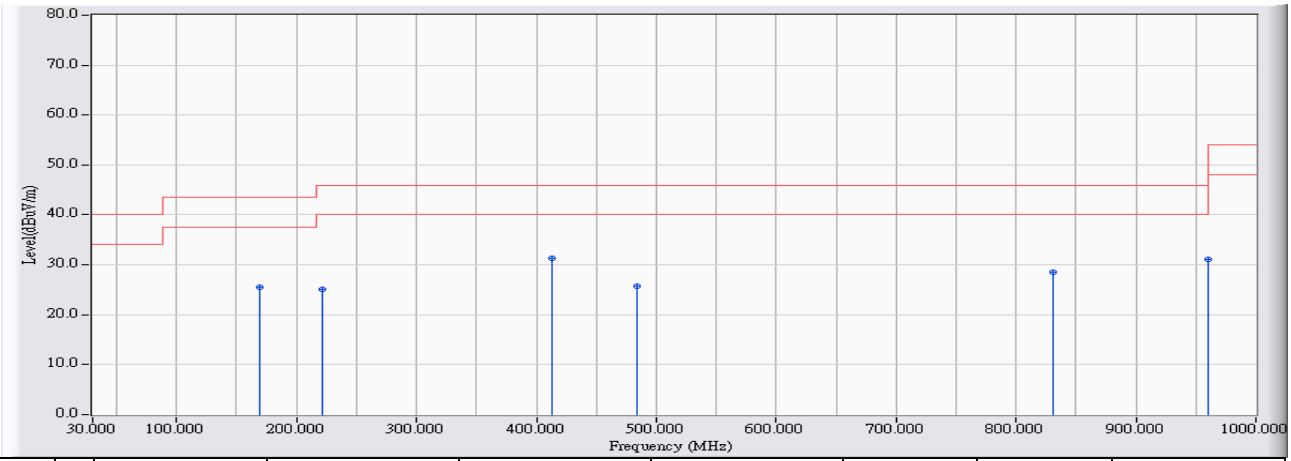


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		168.710	-24.245	52.197	27.952	-15.548	43.500	QUASIPEAK
2		300.630	-20.033	46.635	26.602	-19.398	46.000	QUASIPEAK
3		421.880	-17.124	41.973	24.849	-21.151	46.000	QUASIPEAK
4		500.450	-15.617	43.375	27.758	-18.242	46.000	QUASIPEAK
5		830.250	-13.508	42.130	28.622	-17.378	46.000	QUASIPEAK
6	*	954.410	-12.937	46.432	33.494	-12.506	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 : 2013/12/07 - 16:25**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

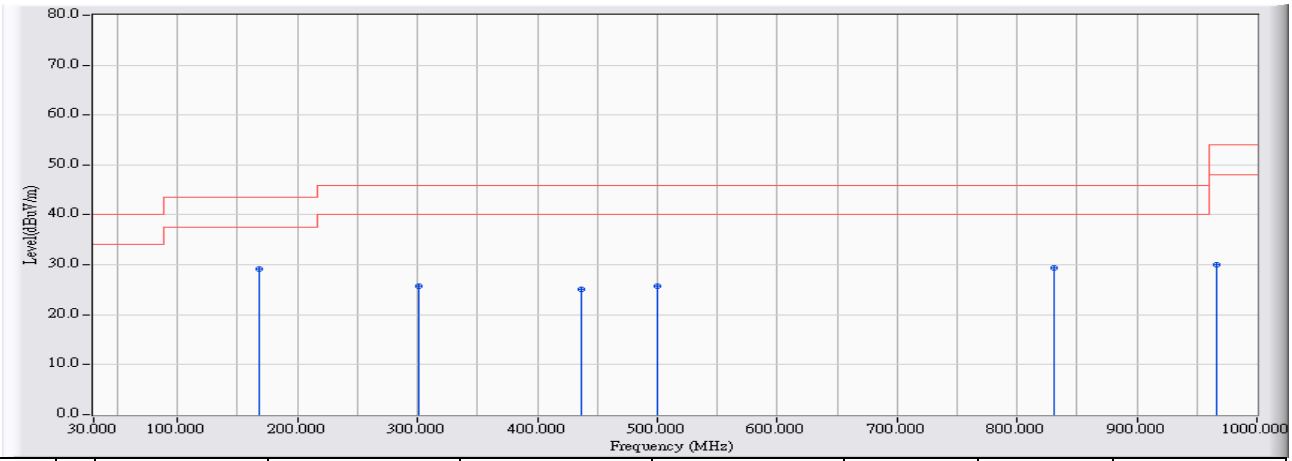


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		169.680	-24.287	49.867	25.579	-17.921	43.500	QUASIPEAK
2		222.060	-23.150	48.320	25.170	-20.830	46.000	QUASIPEAK
3	*	413.150	-17.292	48.511	31.219	-14.781	46.000	QUASIPEAK
4		483.960	-15.926	41.631	25.704	-20.296	46.000	QUASIPEAK
5		830.250	-13.508	42.125	28.617	-17.383	46.000	QUASIPEAK
6		960.230	-12.896	44.102	31.206	-22.794	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 : 2013/12/07 - 16:28**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**

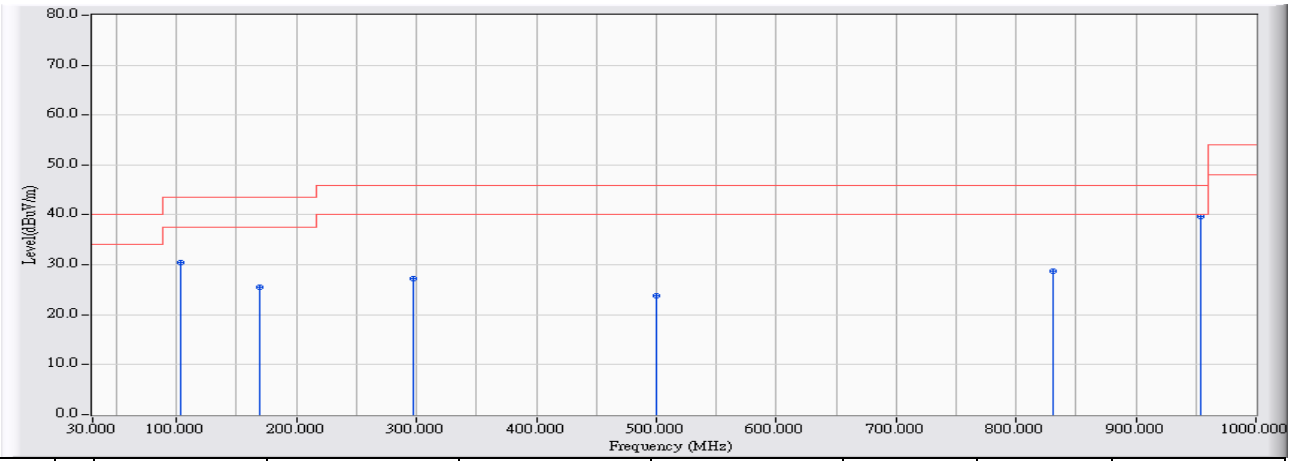


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	167.740	-24.202	53.310	29.107	-14.393	43.500	QUASIPEAK
2		301.600	-20.008	45.822	25.814	-20.186	46.000	QUASIPEAK
3		436.430	-16.842	41.925	25.082	-20.918	46.000	QUASIPEAK
4		500.450	-15.617	41.440	25.823	-20.177	46.000	QUASIPEAK
5		830.250	-13.508	42.877	29.369	-16.631	46.000	QUASIPEAK
6		967.020	-12.848	42.981	30.134	-23.866	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 : 2013/12/07 - 16:41**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**



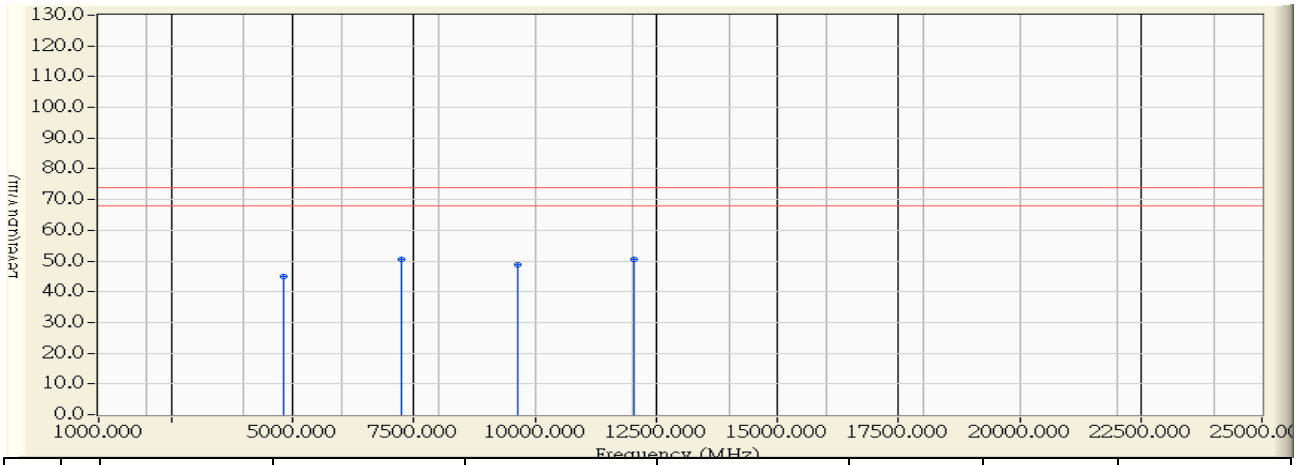
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		103.720	-22.975	53.375	30.399	-13.101	43.500	QUASIPEAK
2		168.710	-24.245	49.773	25.528	-17.972	43.500	QUASIPEAK
3		297.720	-20.093	47.263	27.171	-18.829	46.000	QUASIPEAK
4		500.450	-15.617	39.520	23.903	-22.097	46.000	QUASIPEAK
5		830.250	-13.508	42.223	28.715	-17.285	46.000	QUASIPEAK
6	*	954.410	-12.937	52.567	39.629	-6.371	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 : 2013/10/25 - 14:09**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2412MHz**

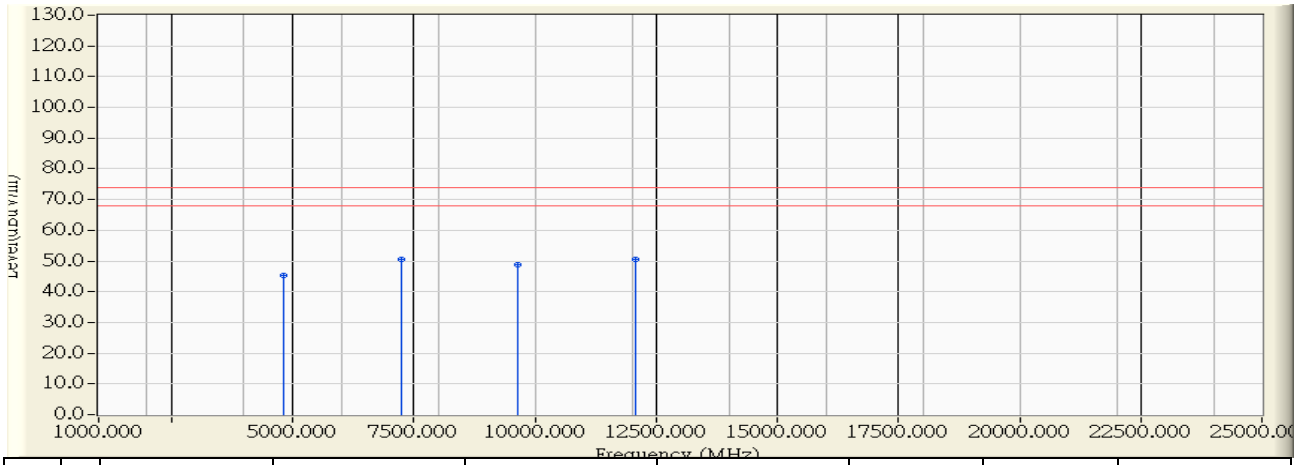


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.052	-0.617	45.590	44.974	-29.026	74.000	PEAK
2		7236.234	5.445	45.080	50.526	-23.474	74.000	PEAK
3		9635.572	9.145	39.520	48.665	-25.335	74.000	PEAK
4	*	12048.222	11.121	39.470	50.591	-23.409	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 : 2013/10/25 - 13:57**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2412MHz**

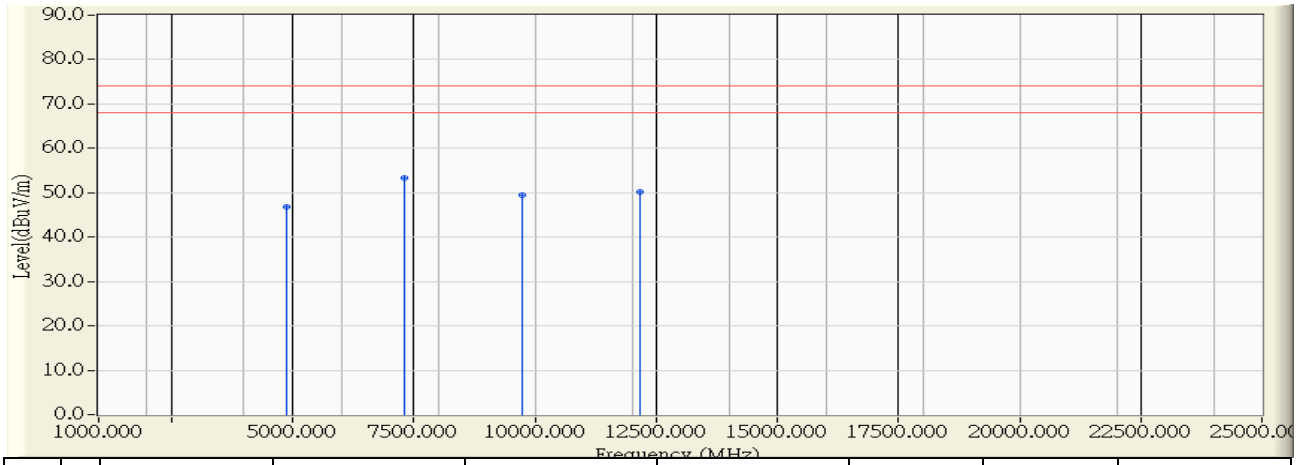


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4823.766	-0.617	46.000	45.383	-28.617	74.000	PEAK
2	*	7235.948	5.445	45.240	50.685	-23.315	74.000	PEAK
3		9647.870	9.225	39.680	48.905	-25.095	74.000	PEAK
4		12064.030	11.113	39.410	50.524	-23.476	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 : 2013/10/25 - 14:40**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2437MHz**

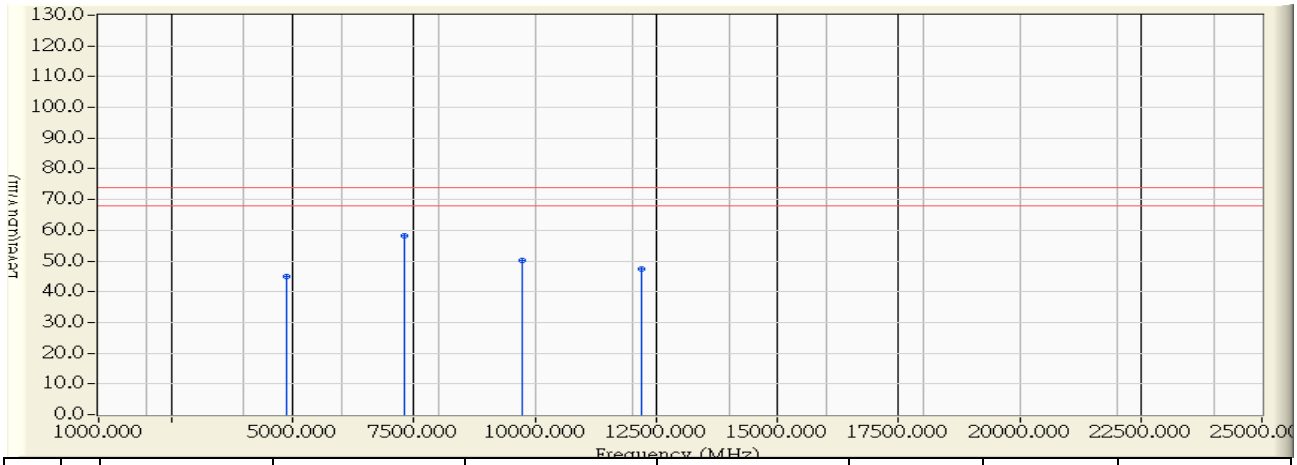


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4873.870	-0.495	47.320	46.825	-27.175	74.000	PEAK
2	*	7310.792	5.608	47.620	53.227	-20.773	74.000	PEAK
3		9748.156	9.874	39.640	49.514	-24.486	74.000	PEAK
4		12179.980	11.061	39.150	50.211	-23.789	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 : 2013/10/25 - 14:17**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode b_2437MHz**

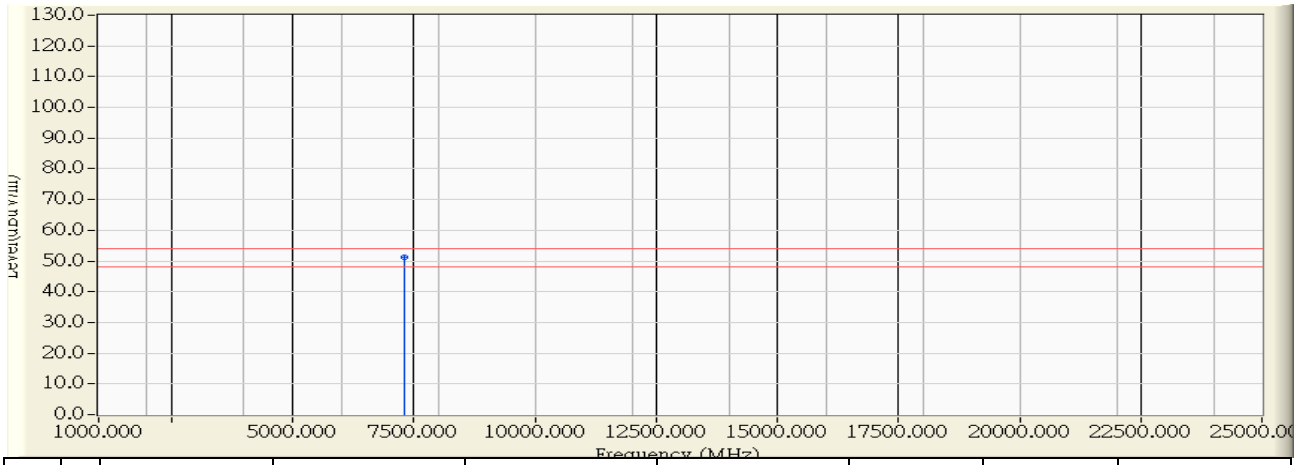


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4873.896	-0.495	45.520	45.025	-28.975	74.000	PEAK
2	*	7311.234	5.608	52.460	58.068	-15.932	74.000	PEAK
3		9748.052	9.873	40.250	50.124	-23.876	74.000	PEAK
4		12185.052	11.058	36.500	47.558	-26.442	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 : 2013/10/25 - 14:19**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2437MHz**

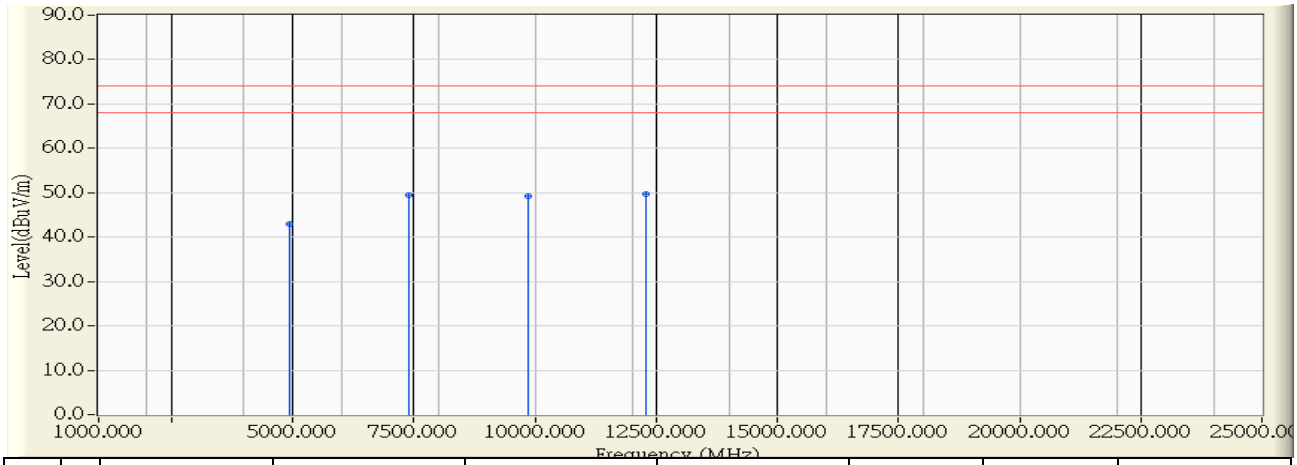


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7310.272	5.606	45.670	51.276	-2.724	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 15:11**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2462MHz**

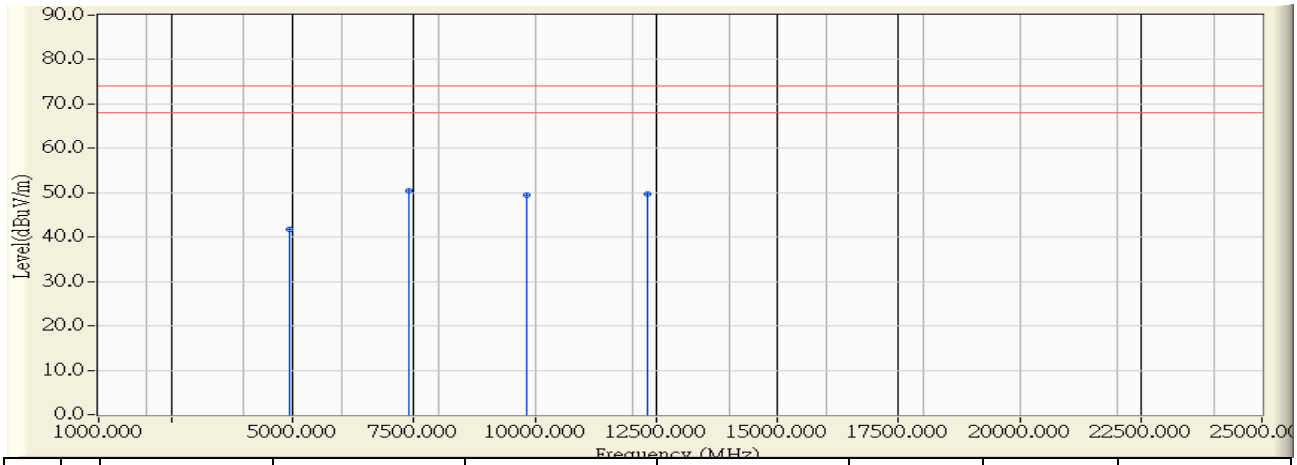


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.026	-0.373	43.250	42.877	-31.123	74.000	PEAK
2		7388.626	5.775	43.650	49.425	-24.575	74.000	PEAK
3		9848.260	10.523	38.810	49.332	-24.668	74.000	PEAK
4	*	12300.926	11.006	38.720	49.725	-24.275	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 : 2013/10/25 - 14:58**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **b_2462MHz**

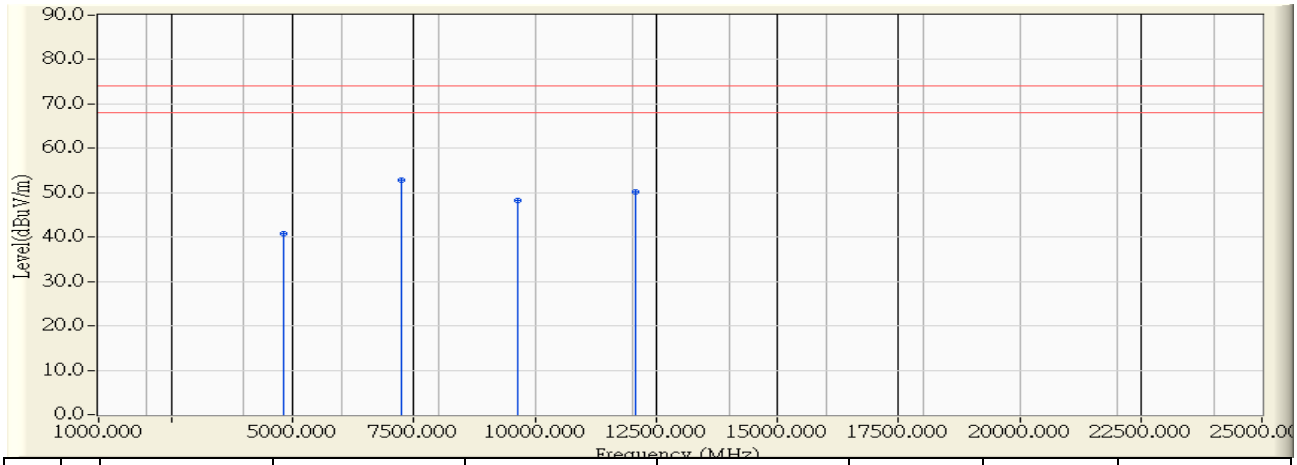


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.182	-0.372	42.150	41.778	-32.222	74.000	PEAK
2	*	7386.050	5.770	44.620	50.390	-23.610	74.000	PEAK
3		9836.586	10.448	39.110	49.557	-24.443	74.000	PEAK
4		12309.194	11.001	38.620	49.622	-24.378	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 : 2013/10/25 - 18:43**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2412MHz**

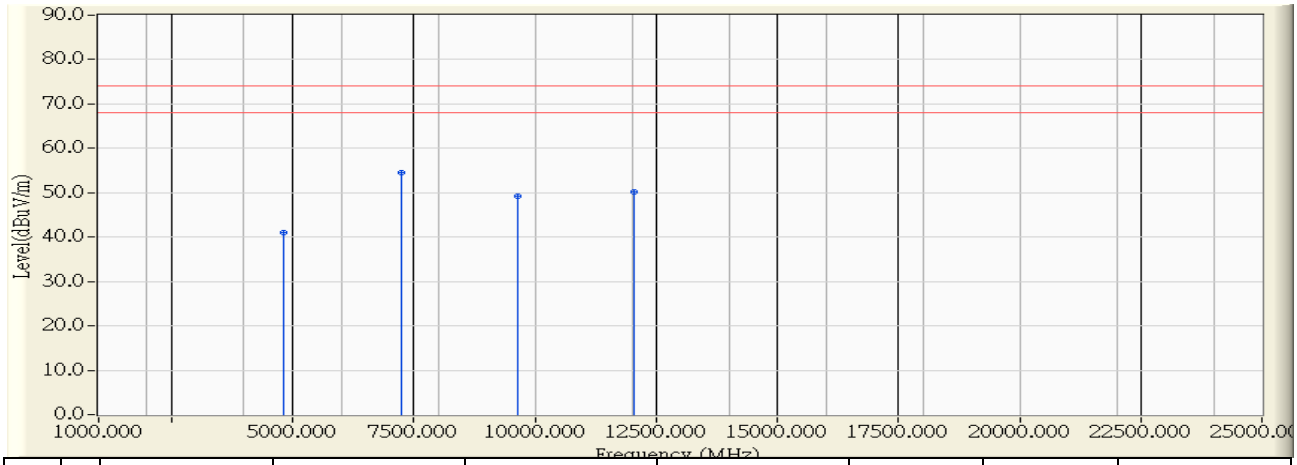


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4822.128	-0.621	41.510	40.889	-33.111	74.000	PEAK
2	*	7238.496	5.450	47.460	52.911	-21.089	74.000	PEAK
3		9633.700	9.133	39.090	48.223	-25.777	74.000	PEAK
4		12070.816	11.111	39.080	50.190	-23.810	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 : 2013/10/25 - 15:18**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2412MHz**

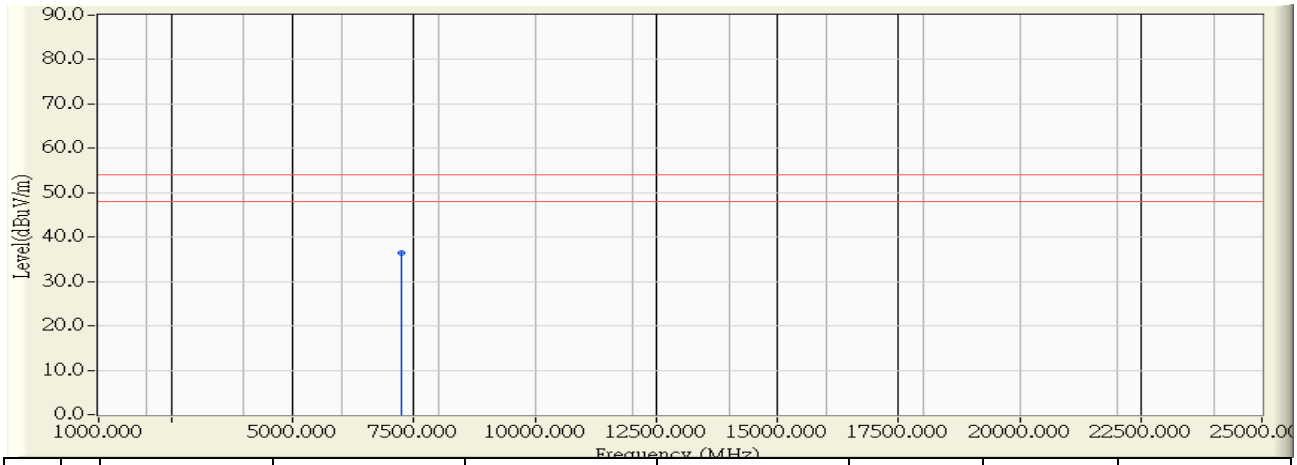


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4826.158	-0.612	41.650	41.039	-32.961	74.000	PEAK
2	*	7238.288	5.450	49.080	54.530	-19.470	74.000	PEAK
3		9636.768	9.154	40.180	49.333	-24.667	74.000	PEAK
4		12061.248	11.115	39.050	50.165	-23.835	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 : 2013/10/25 - 15:19**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2412MHz**

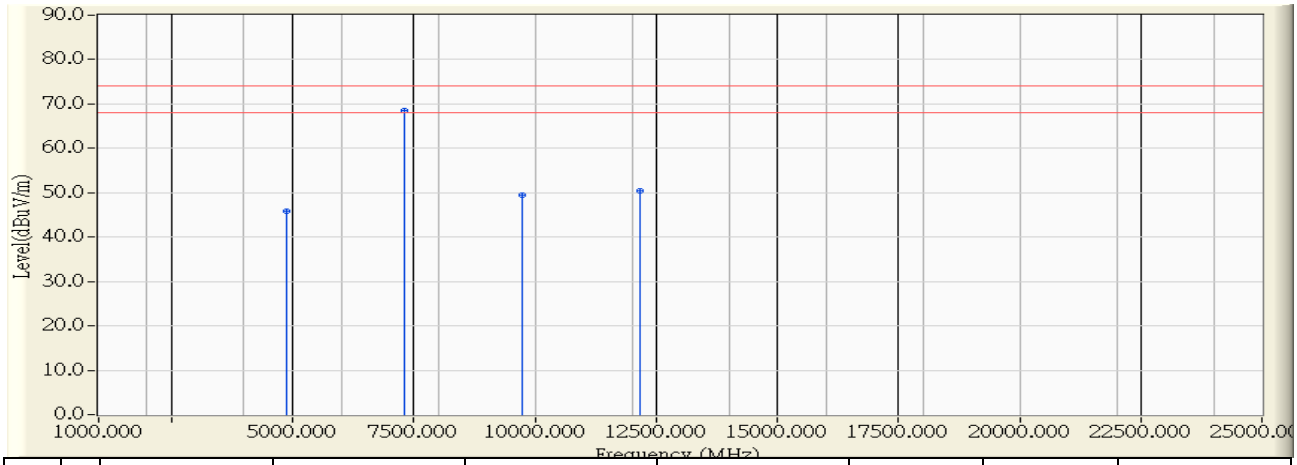


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7233.556	5.440	30.890	36.330	-17.670	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

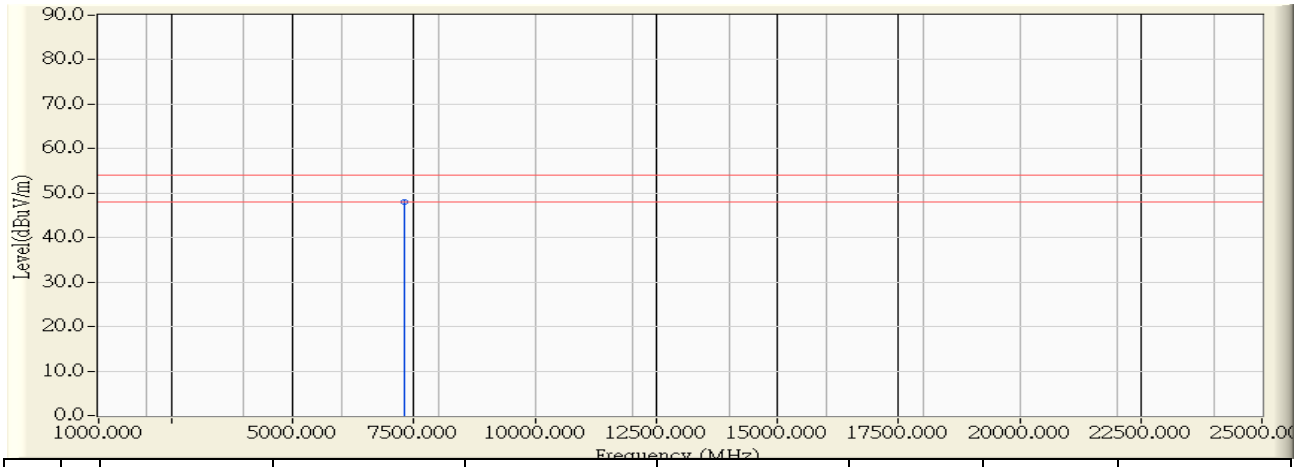


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4869.580	-0.506	46.330	45.825	-28.175	74.000	PEAK
2	*	7309.128	5.603	62.870	68.473	-5.527	74.000	PEAK
3		9739.004	9.815	39.740	49.555	-24.445	74.000	PEAK
4		12161.392	11.069	39.410	50.479	-23.521	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 : 2013/10/25 - 19:38**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

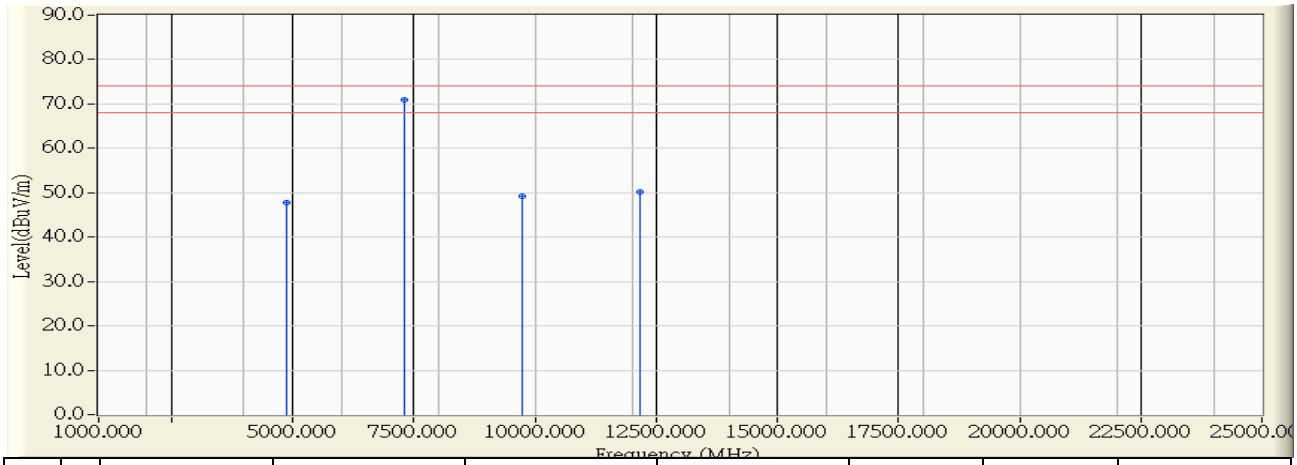


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7313.704	5.613	42.470	48.083	-5.917	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 19:03**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

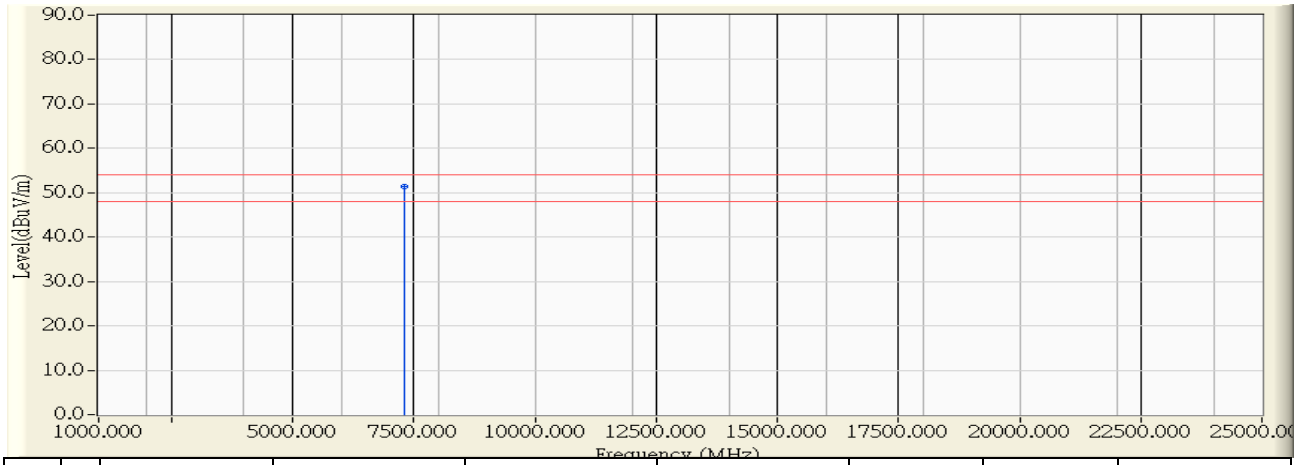


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.104	-0.495	48.310	47.816	-26.184	74.000	PEAK
2	*	7319.008	5.625	65.370	70.995	-3.005	74.000	PEAK
3		9733.128	9.777	39.480	49.257	-24.743	74.000	PEAK
4		12165.864	11.068	39.230	50.297	-23.703	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 : 2013/10/25 - 19:05**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2437MHz**

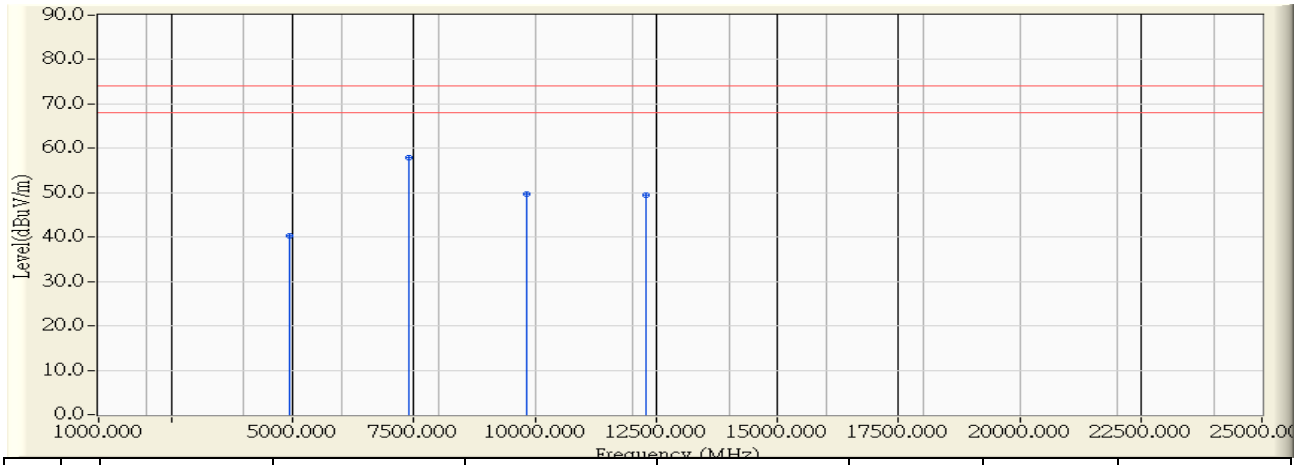


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7308.972	5.603	45.720	51.323	-2.677	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 20:09**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2462MHz**

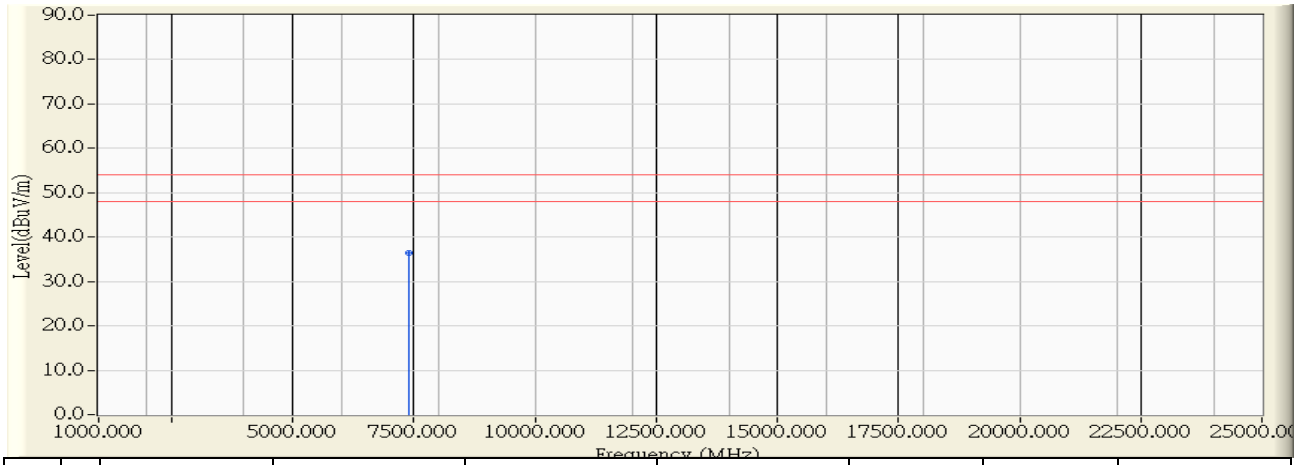


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4928.212	-0.362	40.670	40.308	-33.692	74.000	PEAK
2	*	7388.652	5.775	52.120	57.895	-16.105	74.000	PEAK
3		9822.520	10.356	39.270	49.626	-24.374	74.000	PEAK
4		12284.832	11.013	38.540	49.553	-24.447	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 : 2013/10/25 - 20:10**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2462MHz**

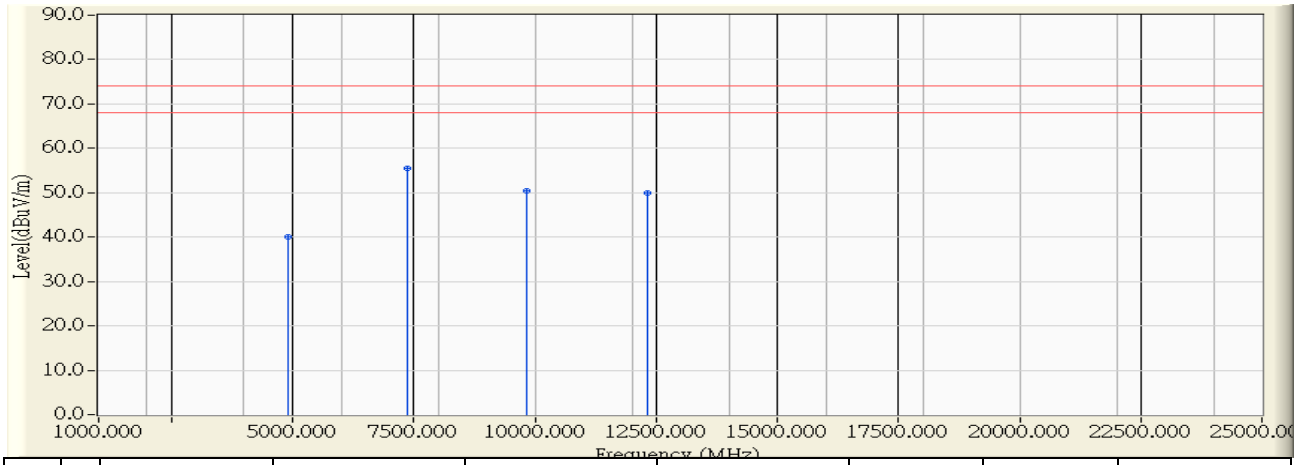


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7388.600	5.775	30.690	36.465	-17.535	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 19:53**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2462MHz**

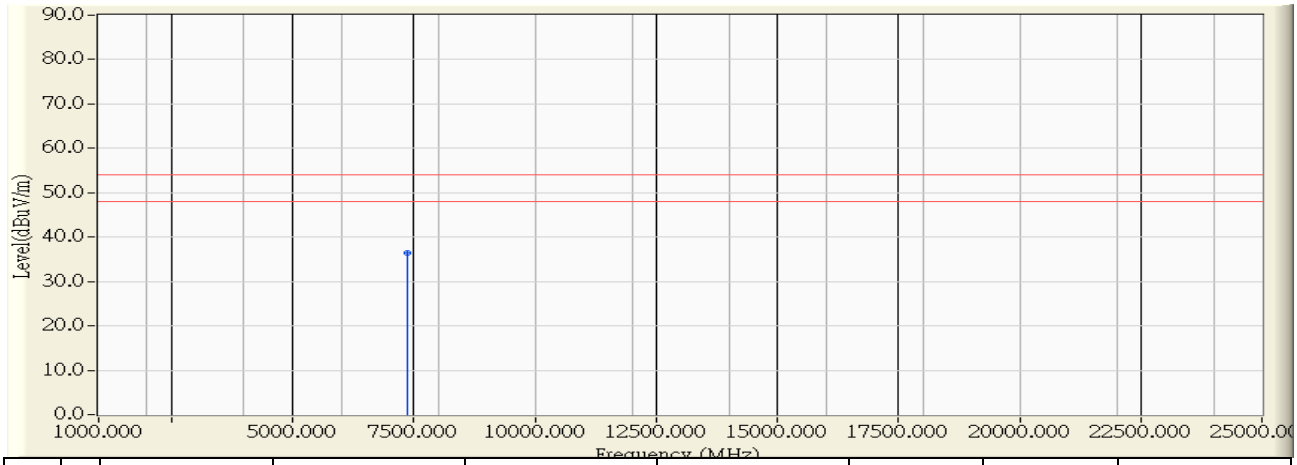


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4919.160	-0.385	40.410	40.026	-33.974	74.000	PEAK
2	*	7383.556	5.764	49.690	55.454	-18.546	74.000	PEAK
3		9842.020	10.482	39.970	50.452	-23.548	74.000	PEAK
4		12310.728	11.001	38.840	49.841	-24.159	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 : 2013/10/25 - 19:53**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **g_2462MHz**

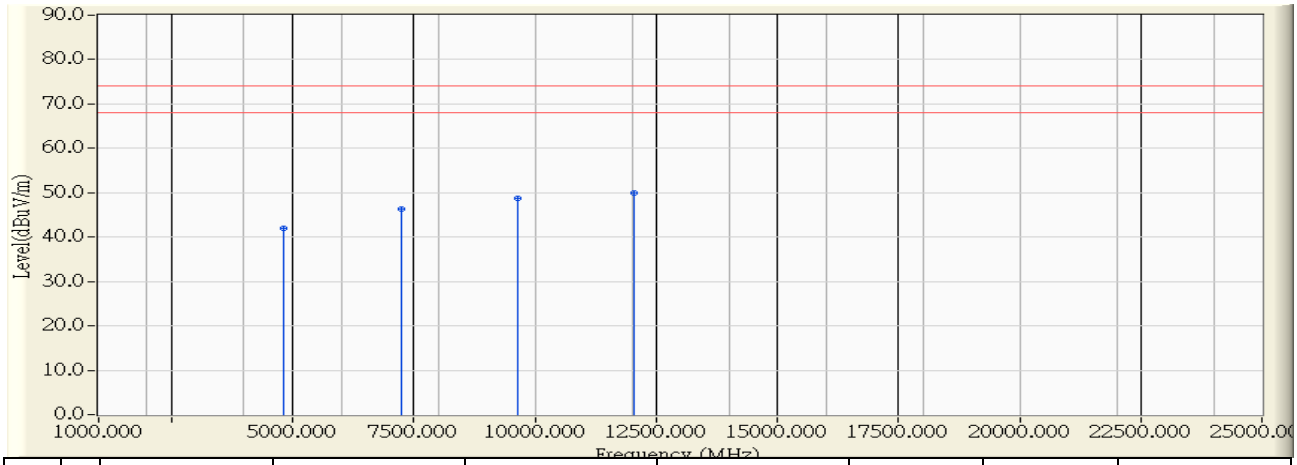


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7384.440	5.766	30.740	36.506	-17.494	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 21:06**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20MHz**

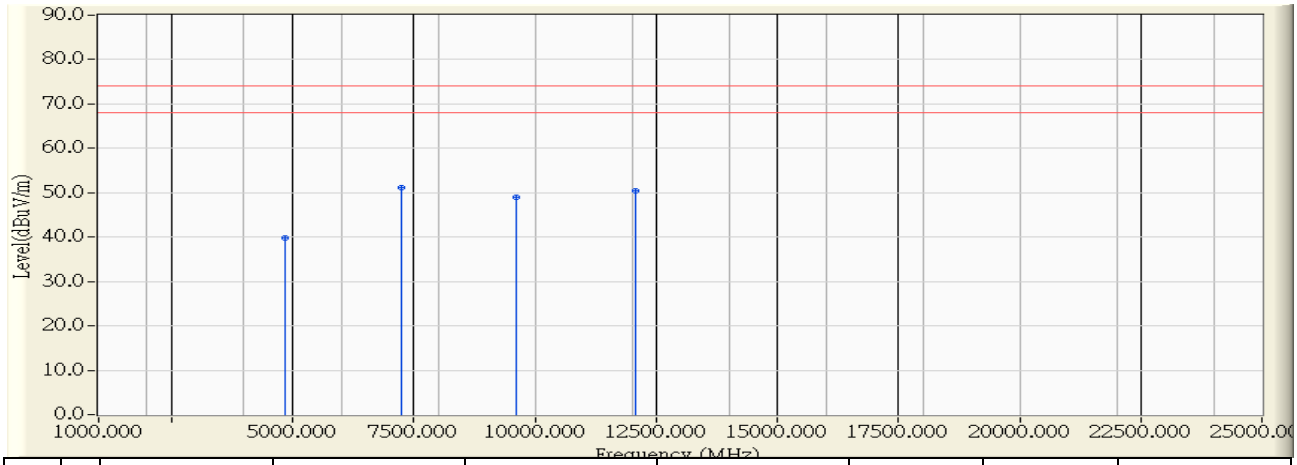


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4806.112	-0.660	42.550	41.890	-32.110	74.000	PEAK
2		7232.412	5.438	40.990	46.427	-27.573	74.000	PEAK
3		9635.624	9.146	39.670	48.816	-25.184	74.000	PEAK
4	*	12044.348	11.122	38.890	50.013	-23.987	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 : 2013/10/25 - 20:54**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20MHz**

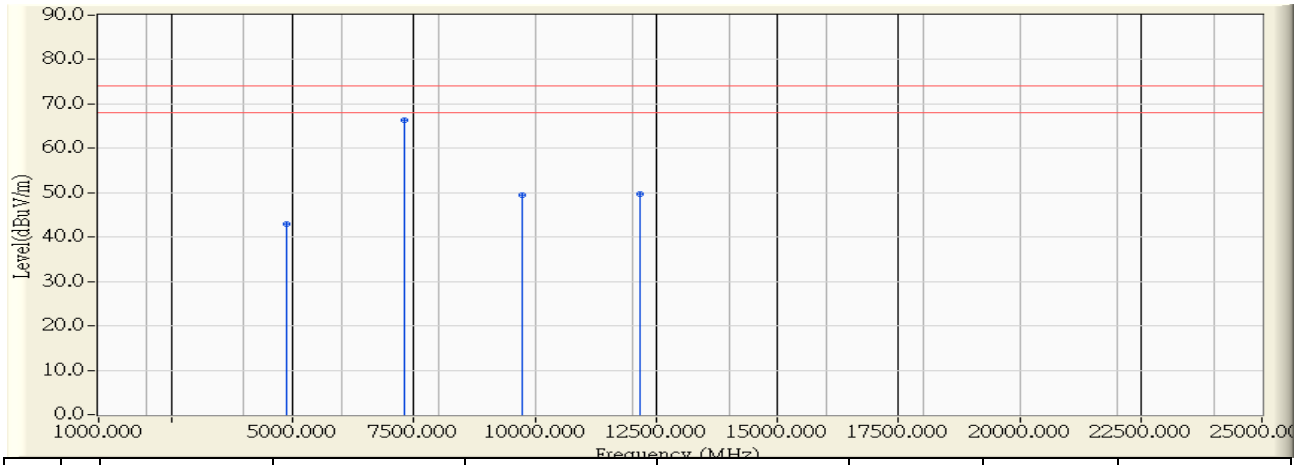


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4843.916	-0.568	40.410	39.842	-34.158	74.000	PEAK
2	*	7232.776	5.438	45.670	51.108	-22.892	74.000	PEAK
3		9624.964	9.077	39.800	48.877	-25.123	74.000	PEAK
4		12077.888	11.107	39.420	50.527	-23.473	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 21:38**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

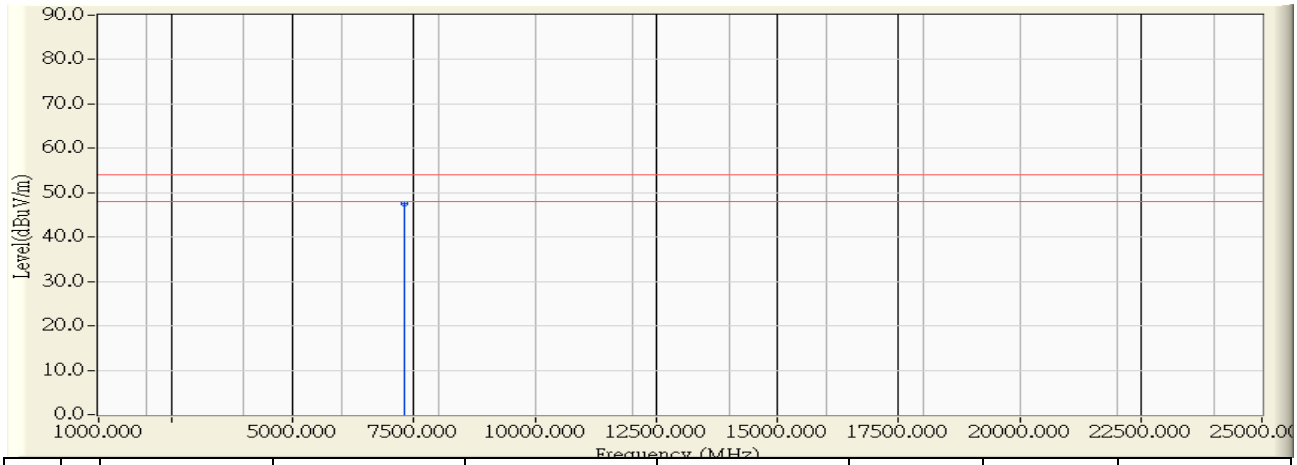


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4871.296	-0.502	43.540	43.039	-30.961	74.000	PEAK
2	*	7309.960	5.605	60.750	66.355	-7.645	74.000	PEAK
3		9735.520	9.792	39.590	49.382	-24.618	74.000	PEAK
4		12160.820	11.070	38.710	49.779	-24.221	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 : 2013/10/25 - 21:39**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

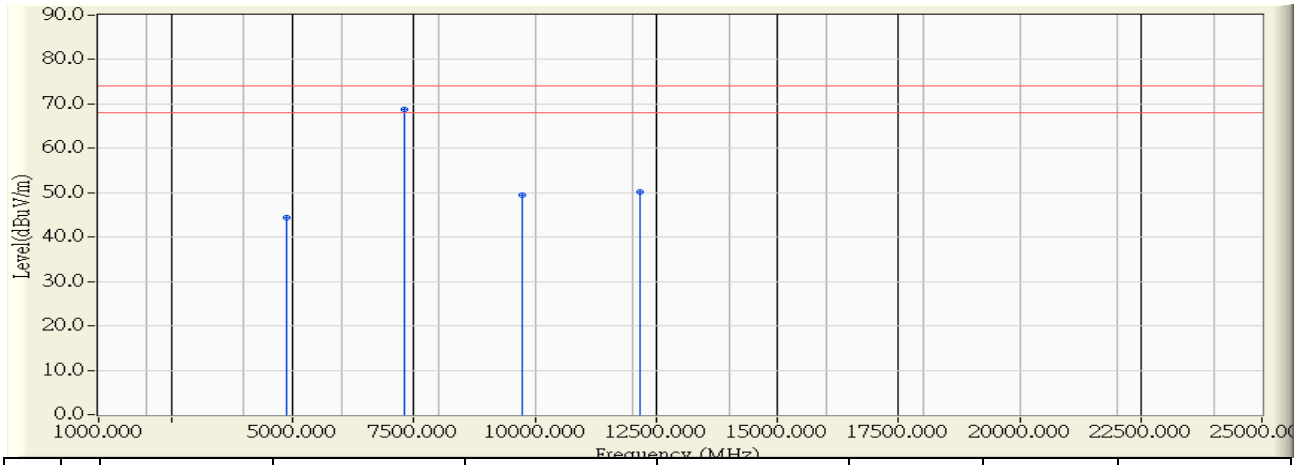


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7309.804	5.605	41.820	47.425	-6.575	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 21:20**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

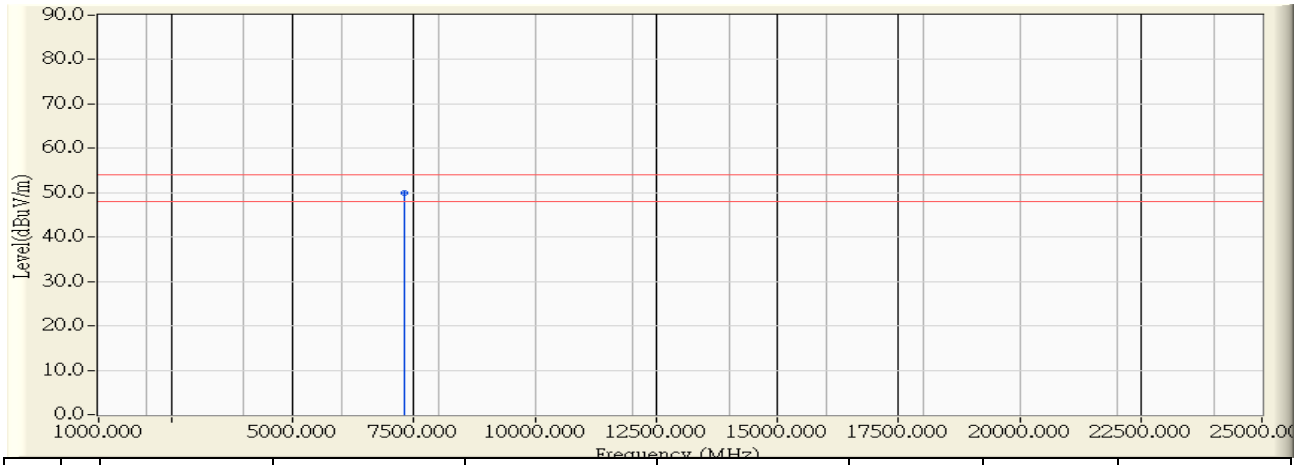


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4873.844	-0.495	44.870	44.375	-29.625	74.000	PEAK
2	*	7312.352	5.611	63.230	68.840	-5.160	74.000	PEAK
3		9732.816	9.775	39.650	49.425	-24.575	74.000	PEAK
4		12171.532	11.064	39.080	50.145	-23.855	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 : 2013/10/25 - 21:21**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2437MHz**

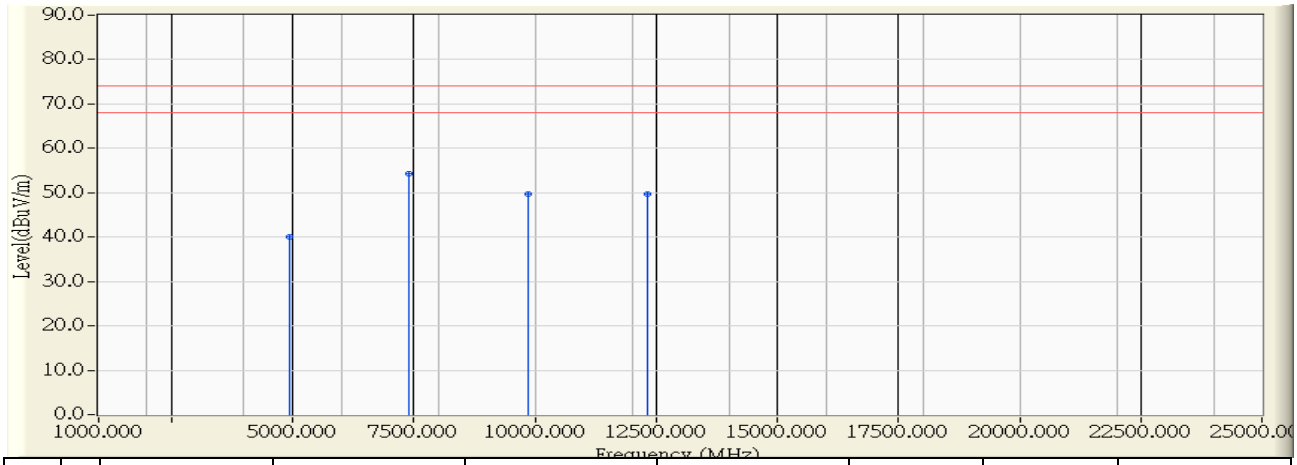


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7312.404	5.611	44.260	49.870	-4.130	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 22:04**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)8 802.11n20_2462MHz**

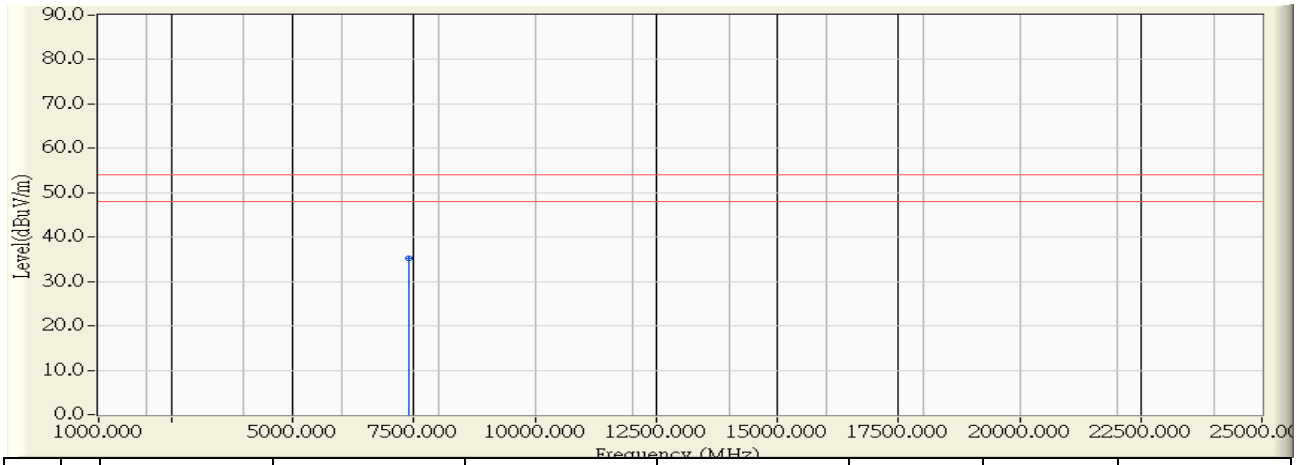


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4933.880	-0.348	40.380	40.031	-33.969	74.000	PEAK
2	*	7392.448	5.784	48.600	54.384	-19.616	74.000	PEAK
3		9848.330	10.523	39.110	49.633	-24.367	74.000	PEAK
4		12313.120	11.000	38.620	49.620	-24.380	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 : 2013/10/25 - 22:05**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2462MHz**

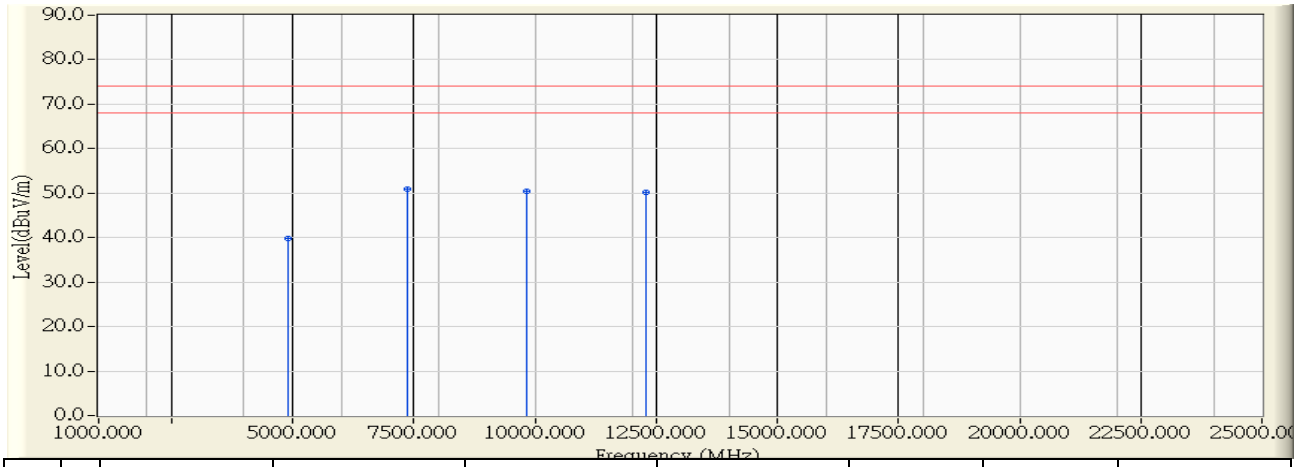


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7390.056	5.778	29.390	35.169	-18.831	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/25 - 21:53**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_2462MHz**

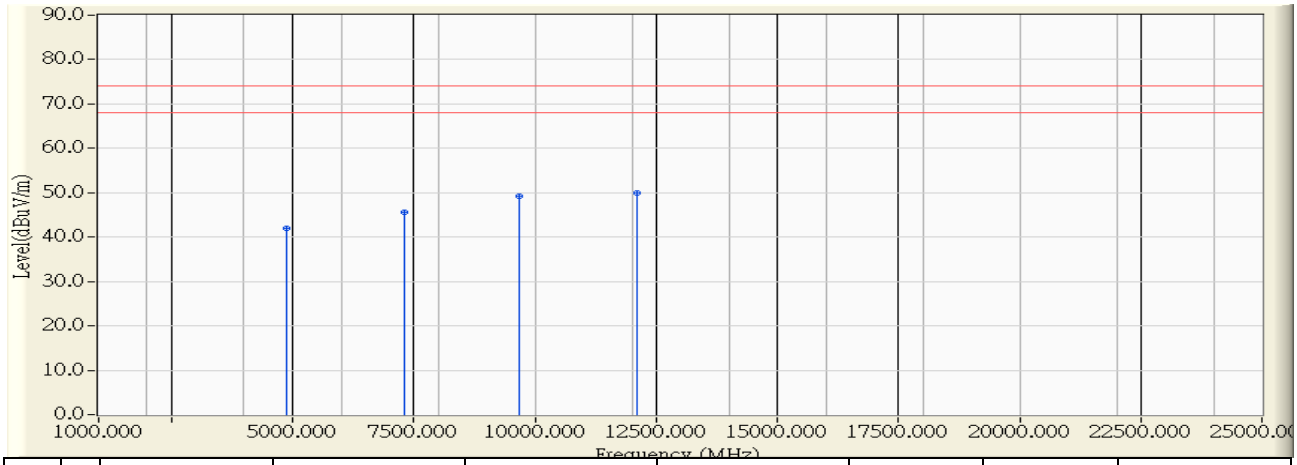


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4907.412	-0.414	40.150	39.737	-34.263	74.000	PEAK
2	*	7382.568	5.762	45.090	50.852	-23.148	74.000	PEAK
3		9839.160	10.464	39.900	50.363	-23.637	74.000	PEAK
4		12294.972	11.008	39.180	50.188	-23.812	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 : 2013/10/26 - 10:24**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2422MHz**

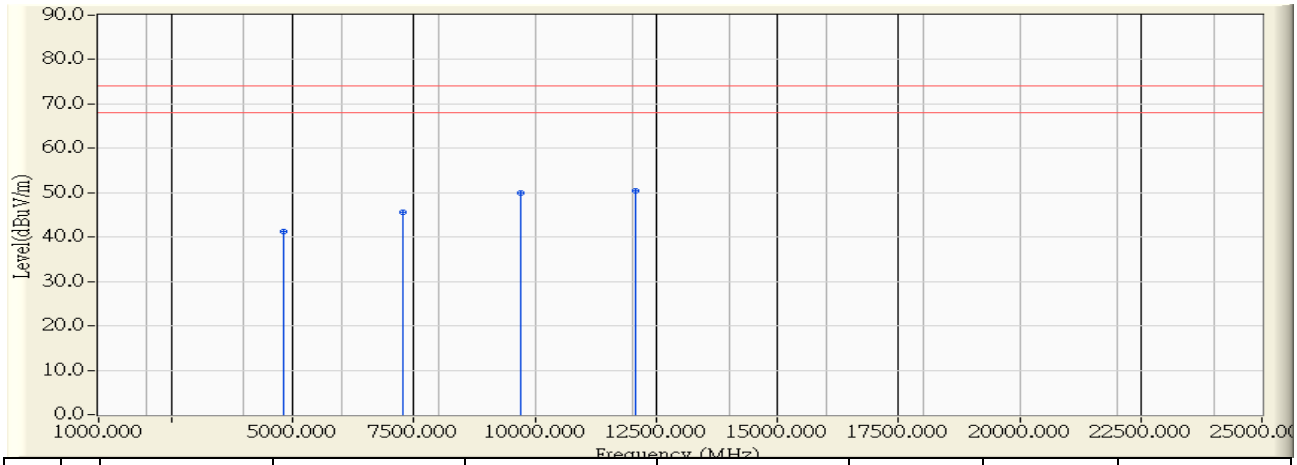


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4891.736	-0.452	42.450	41.999	-32.001	74.000	PEAK
2		7292.520	5.567	40.140	45.708	-28.292	74.000	PEAK
3		9665.952	9.342	39.990	49.332	-24.668	74.000	PEAK
4	*	12118.840	11.089	38.920	50.009	-23.991	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 : 2013/10/26 - 10:11**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2422MHz**

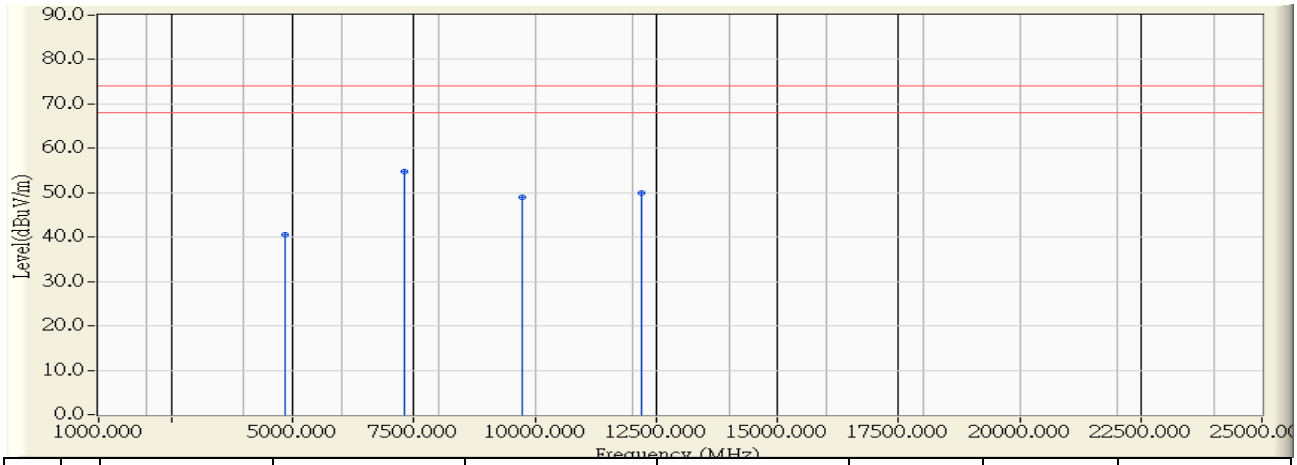


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4805.936	-0.660	42.040	41.379	-32.621	74.000	PEAK
2		7283.576	5.548	39.990	45.538	-28.462	74.000	PEAK
3		9697.568	9.546	40.330	49.877	-24.123	74.000	PEAK
4	*	12084.624	11.105	39.320	50.424	-23.576	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 : 2013/10/26 - 11:04**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

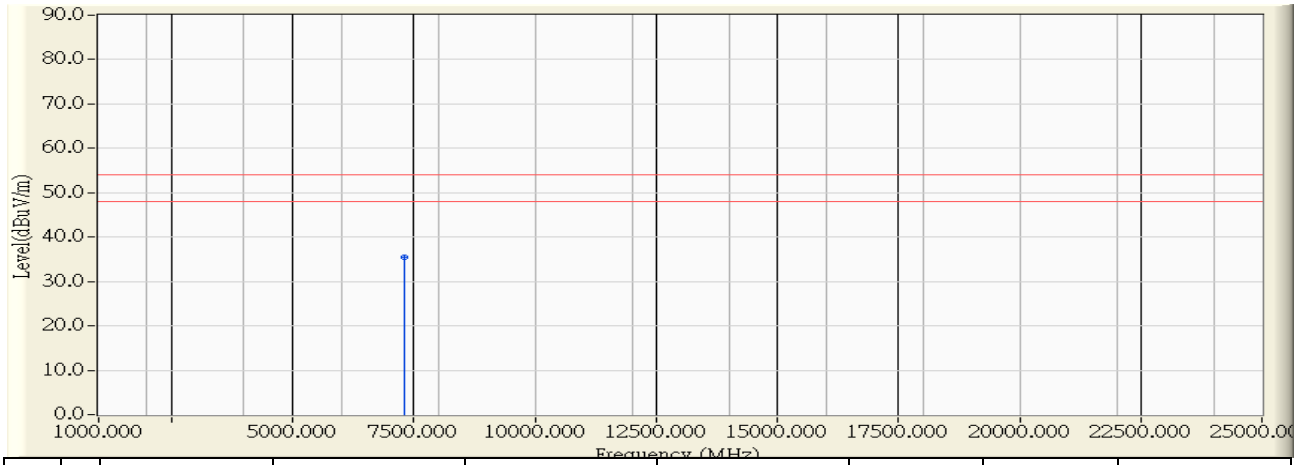


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4845.712	-0.564	40.990	40.426	-33.574	74.000	PEAK
2	*	7309.752	5.605	49.200	54.805	-19.195	74.000	PEAK
3		9729.696	9.755	39.340	49.095	-24.905	74.000	PEAK
4		12209.440	11.048	38.930	49.977	-24.023	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 : 2013/10/26 - 11:06**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

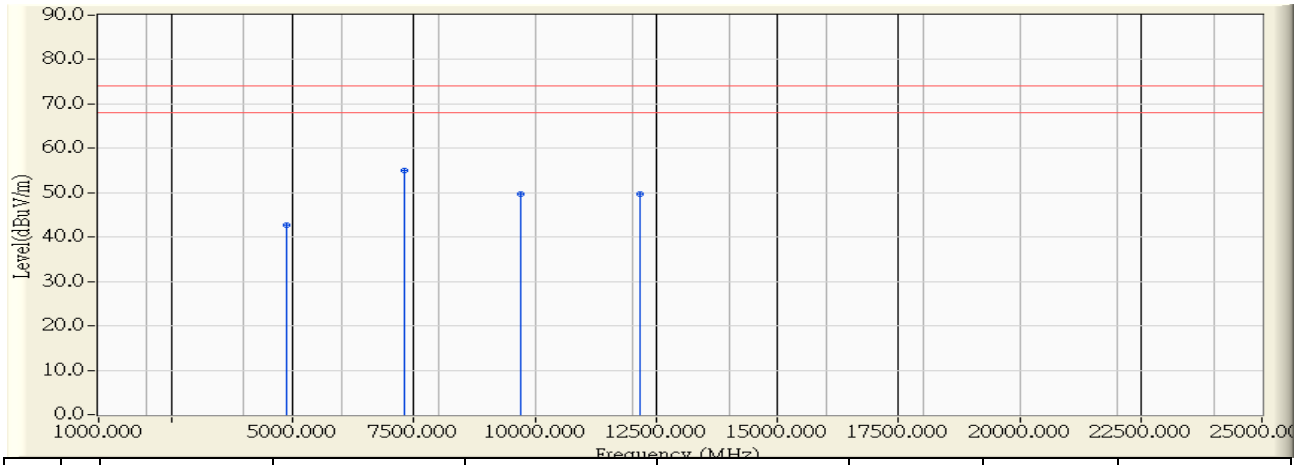


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7304.986	5.594	29.820	35.414	-18.586	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/26 - 10:47**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

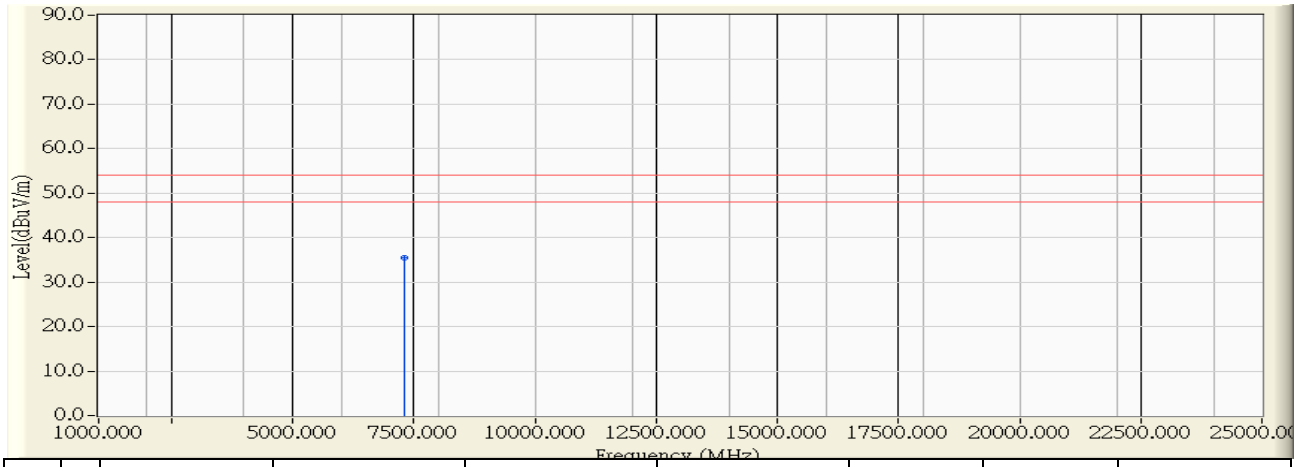


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.312	-0.493	43.110	42.616	-31.384	74.000	PEAK
2	*	7309.648	5.604	49.400	55.005	-18.995	74.000	PEAK
3		9717.320	9.675	40.070	49.745	-24.255	74.000	PEAK
4		12164.928	11.068	38.680	49.748	-24.252	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 : 2013/10/26 - 10:48**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2437MHz**

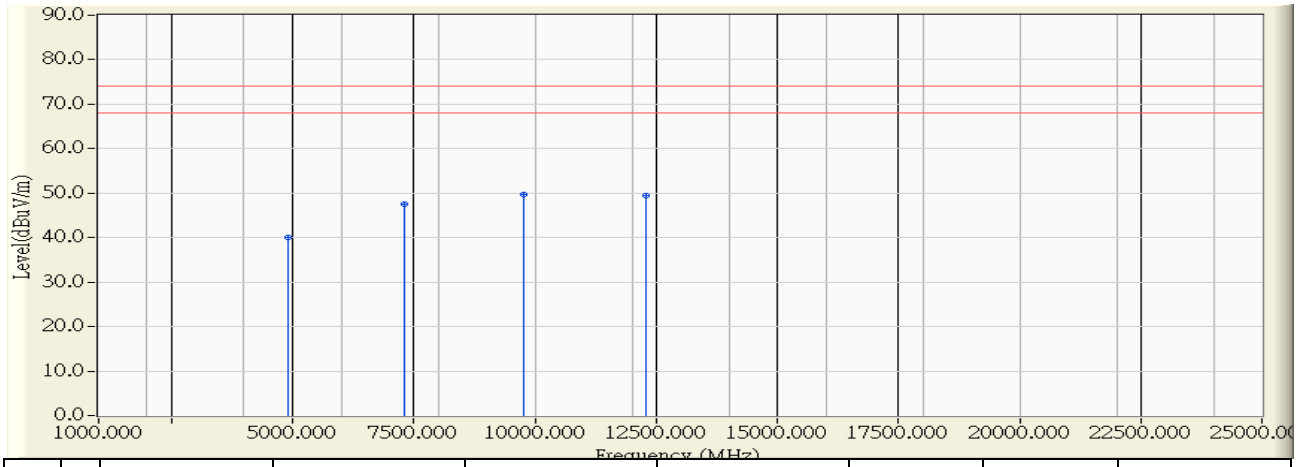


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7317.448	5.622	29.890	35.511	-18.489	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/10/26 - 11:44**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2452MHz**

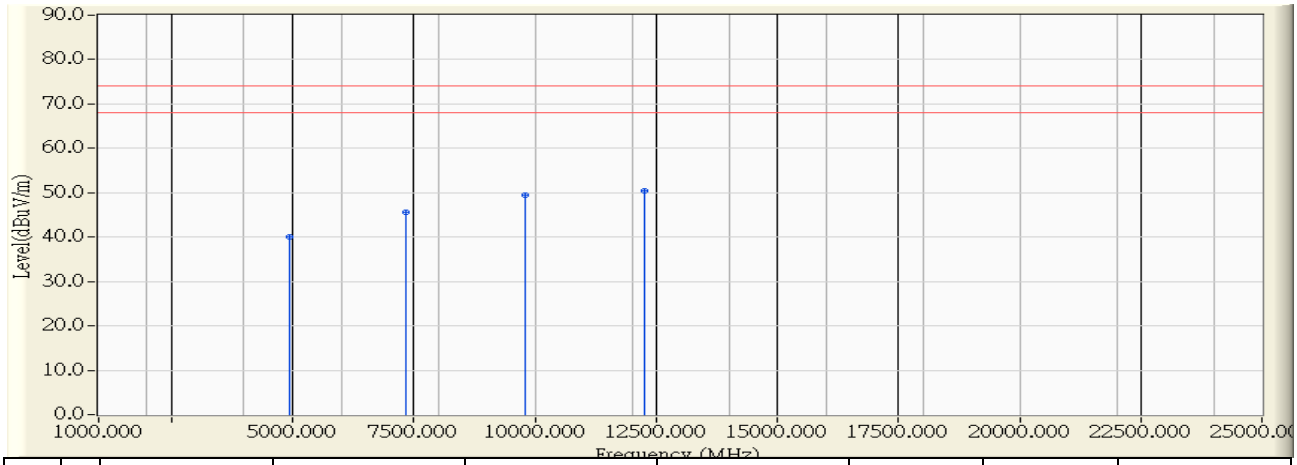


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4899.112	-0.434	40.440	40.007	-33.993	74.000	PEAK
2		7309.304	5.604	41.920	47.524	-26.476	74.000	PEAK
3	*	9772.432	10.032	39.610	49.641	-24.359	74.000	PEAK
4		12293.488	11.009	38.400	49.409	-24.591	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 : 2013/10/26 - 11:35**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_2452MHz**

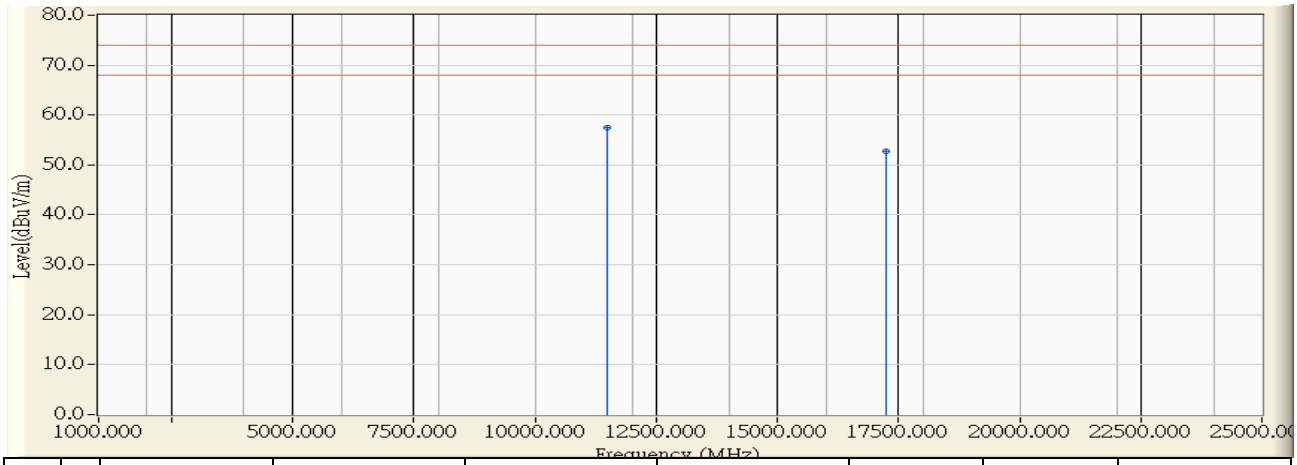


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4931.352	-0.355	40.290	39.935	-34.065	74.000	PEAK
2		7328.544	5.645	39.960	45.605	-28.395	74.000	PEAK
3		9801.136	10.217	39.280	49.497	-24.503	74.000	PEAK
4	*	12270.816	11.020	39.450	50.469	-23.531	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 : 2013/12/06 - 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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5745MHz**

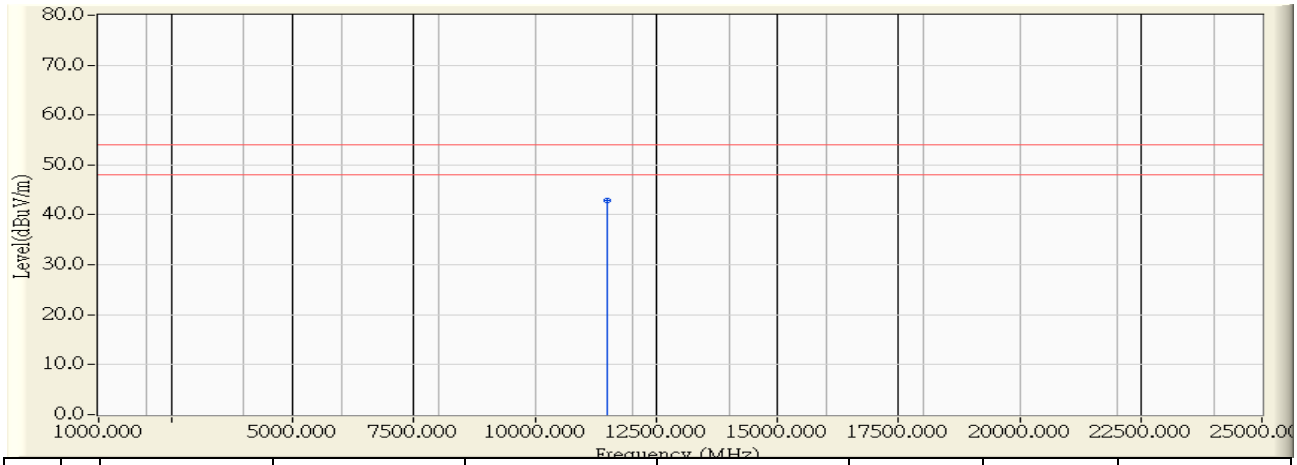


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	46.000	57.533	-16.467	74.000	PEAK
2		17235.000	15.422	37.420	52.842	-21.158	74.000	PEAK

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 : 2013/12/06 - 17:55**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5745MHz**

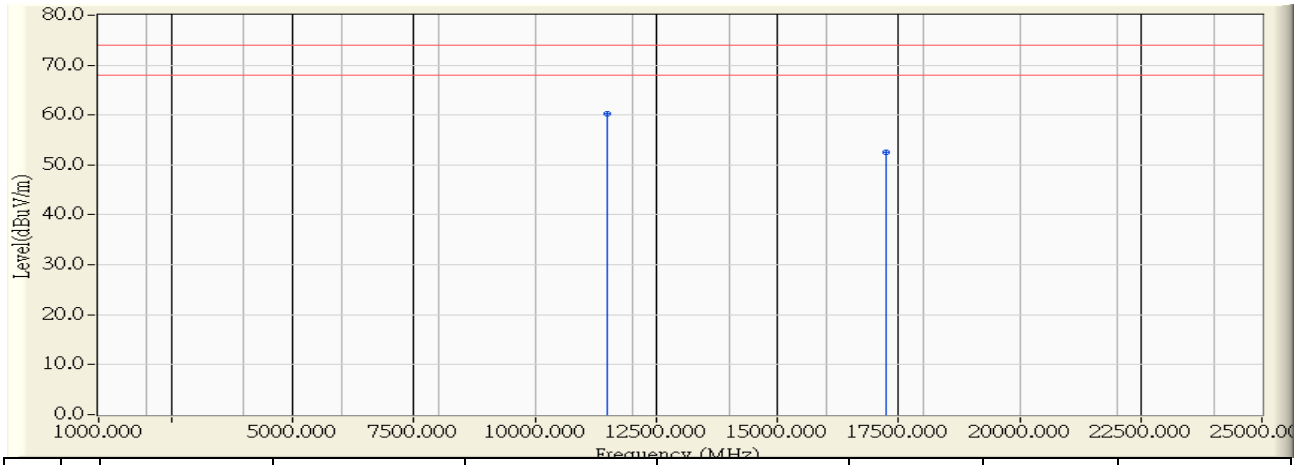


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11489.000	11.534	31.440	42.974	-11.026	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 18:38**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5745MHz**

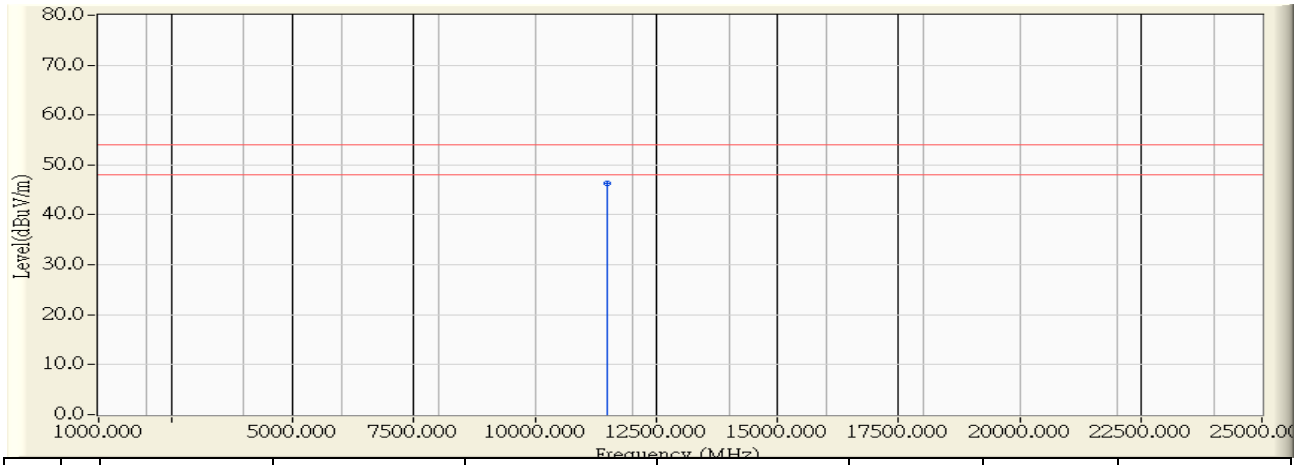


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	48.630	60.163	-13.837	74.000	PEAK
2		17235.000	15.422	37.220	52.642	-21.358	74.000	PEAK

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 : 2013/12/06 - 18:38**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5745MHz**

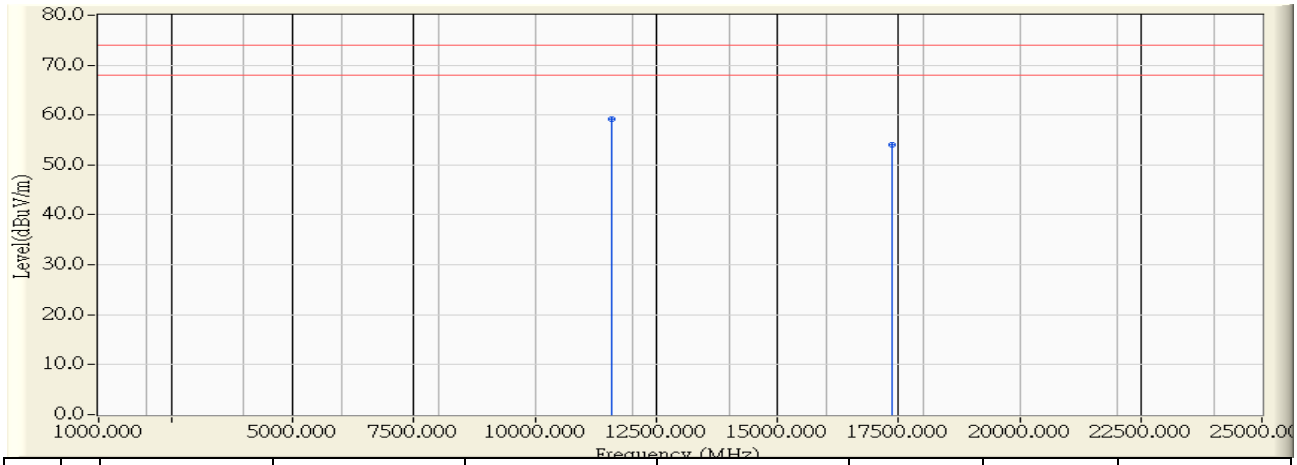


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	34.770	46.303	-7.697	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 18:43**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

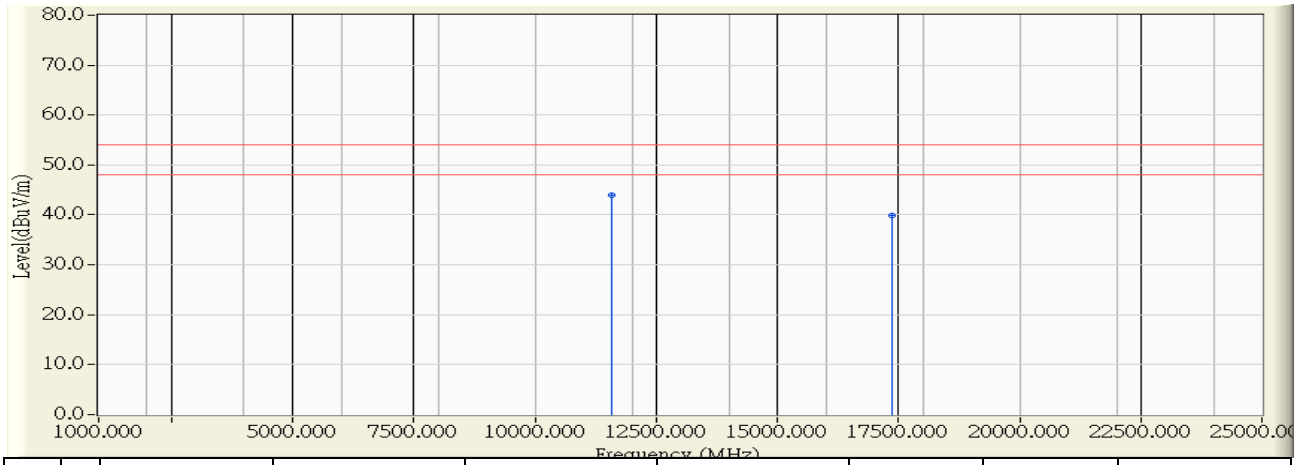


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	47.800	59.277	-14.723	74.000	PEAK
2		17355.000	15.974	38.130	54.104	-19.896	74.000	PEAK

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 : 2013/12/06 - 18:43**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

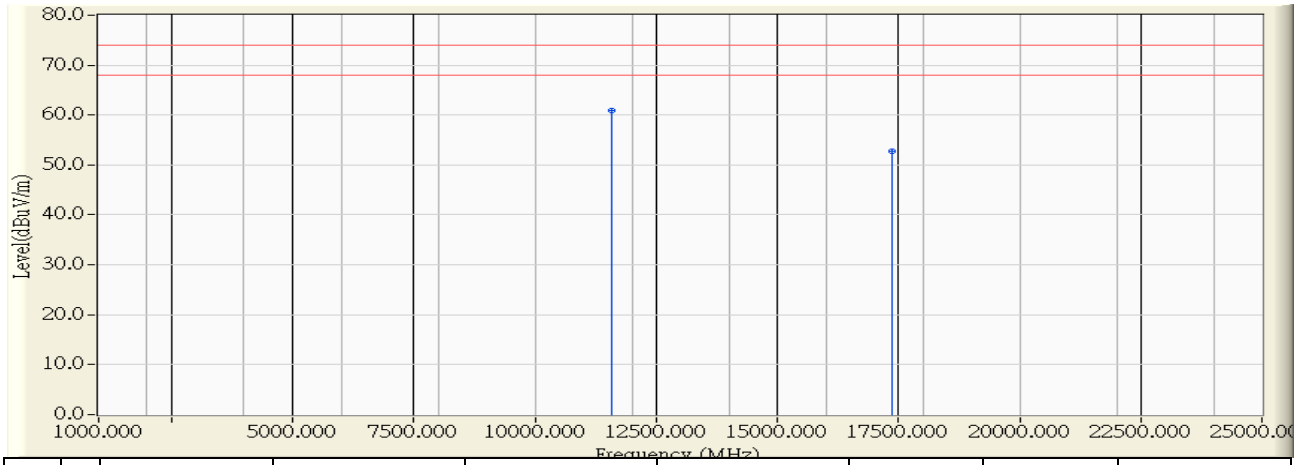


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	32.580	44.057	-9.943	54.000	AVERAGE
2		17355.000	15.974	24.016	39.990	-14.010	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 18:51**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

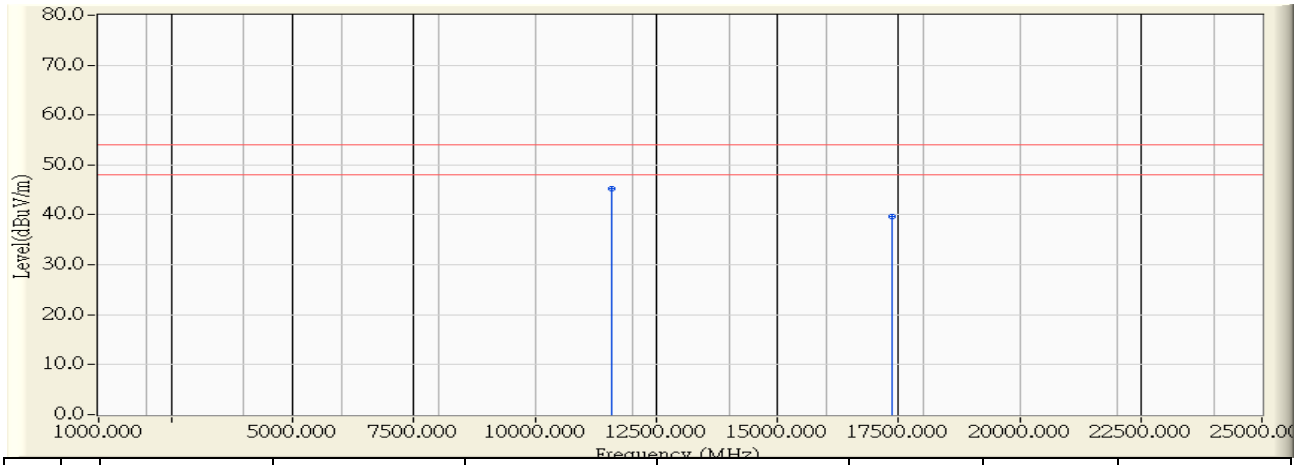


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	49.390	60.867	-13.133	74.000	PEAK
2		17355.000	15.974	36.880	52.854	-21.146	74.000	PEAK

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 : 2013/12/06 - 18:52**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5785MHz**

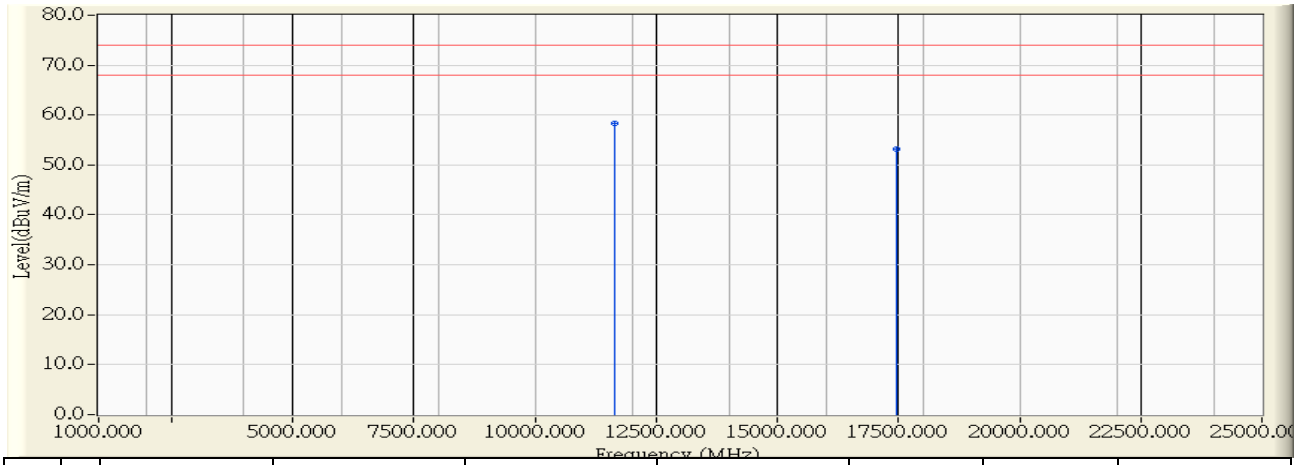


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	33.830	45.307	-8.693	54.000	AVERAGE
2		17355.000	15.974	23.600	39.574	-14.426	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 18:57**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5825MHz**

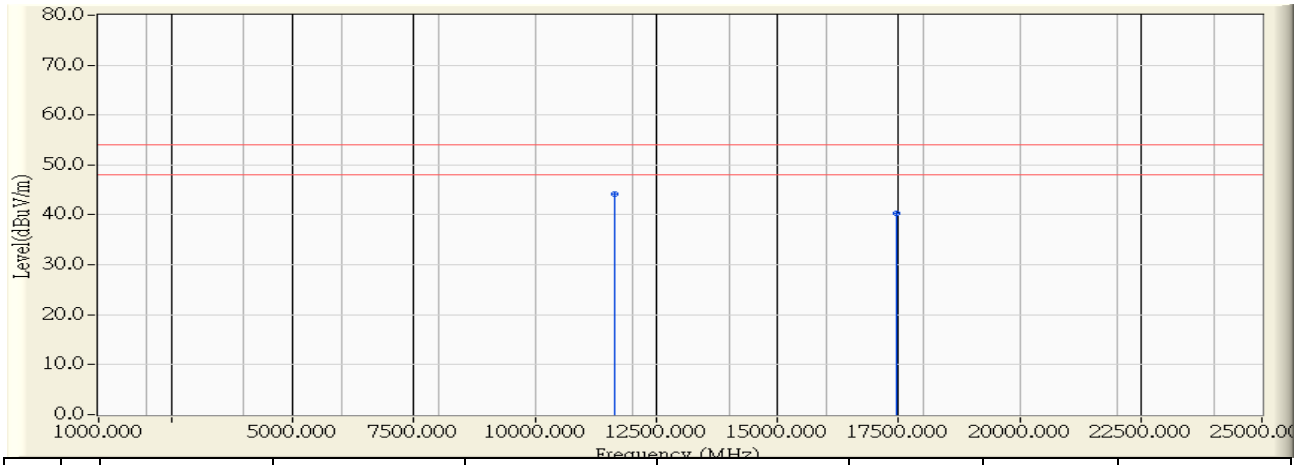


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	47.030	58.445	-15.555	74.000	PEAK
2		17475.000	16.526	36.570	53.096	-20.904	74.000	PEAK

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 : 2013/12/06 - 18:57**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5825MHz**

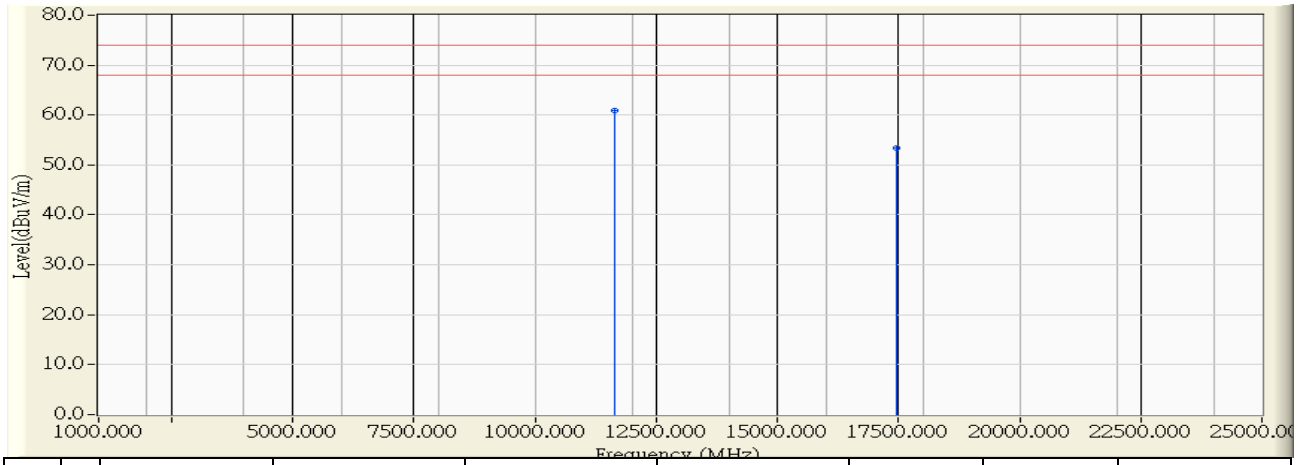


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	32.800	44.215	-9.785	54.000	AVERAGE
2		17475.000	16.526	23.780	40.306	-13.694	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 19:01**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5825MHz**

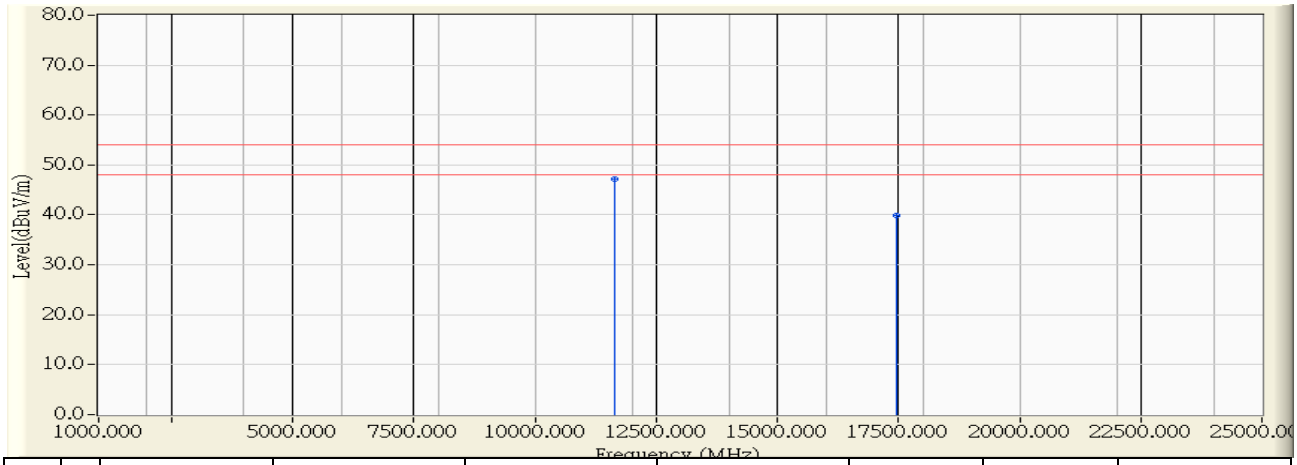


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	49.580	60.995	-13.005	74.000	PEAK
2		17475.000	16.526	36.960	53.486	-20.514	74.000	PEAK

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 : 2013/12/06 - 19:02**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **a_5825MHz**

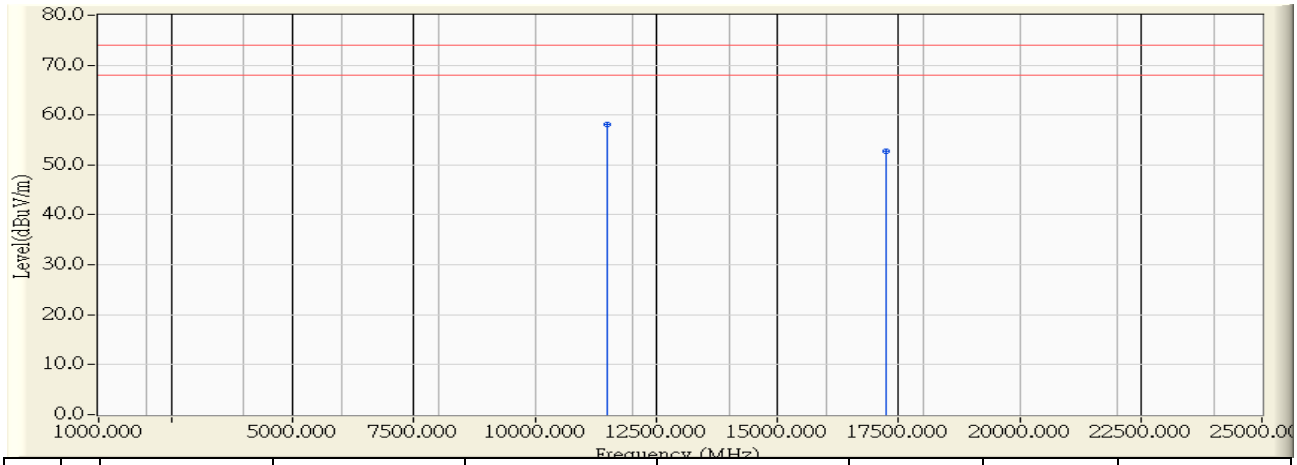


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11648.000	11.416	35.780	47.196	-6.804	54.000	AVERAGE
2		17475.000	16.526	23.290	39.816	-14.184	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 19:11**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5745MHz**

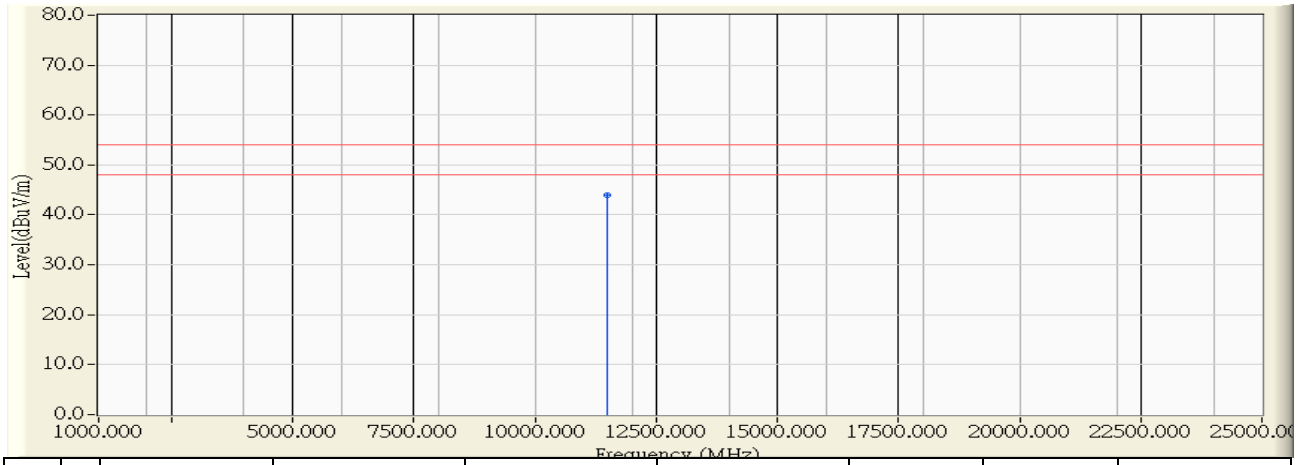


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	46.510	58.043	-15.957	74.000	PEAK
2		17235.000	15.422	37.240	52.662	-21.338	74.000	PEAK

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 : 2013/12/06 - 19:11**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5745MHz**

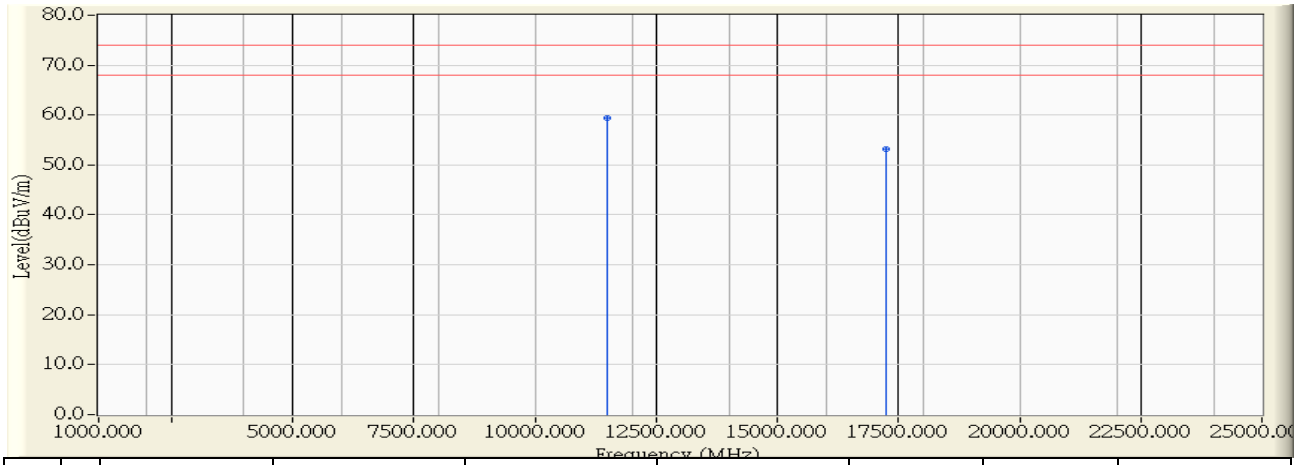


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	32.430	43.963	-10.037	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 19:19**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5745MHz**

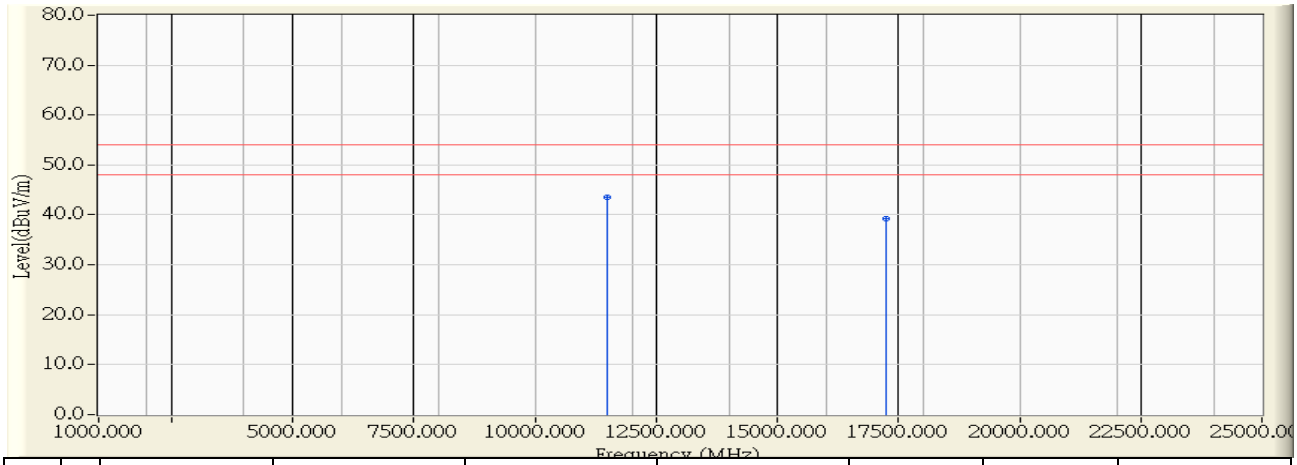


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	47.880	59.413	-14.587	74.000	PEAK
2		17235.000	15.422	37.720	53.142	-20.858	74.000	PEAK

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 : 2013/12/06 - 19:20**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5745MHz**

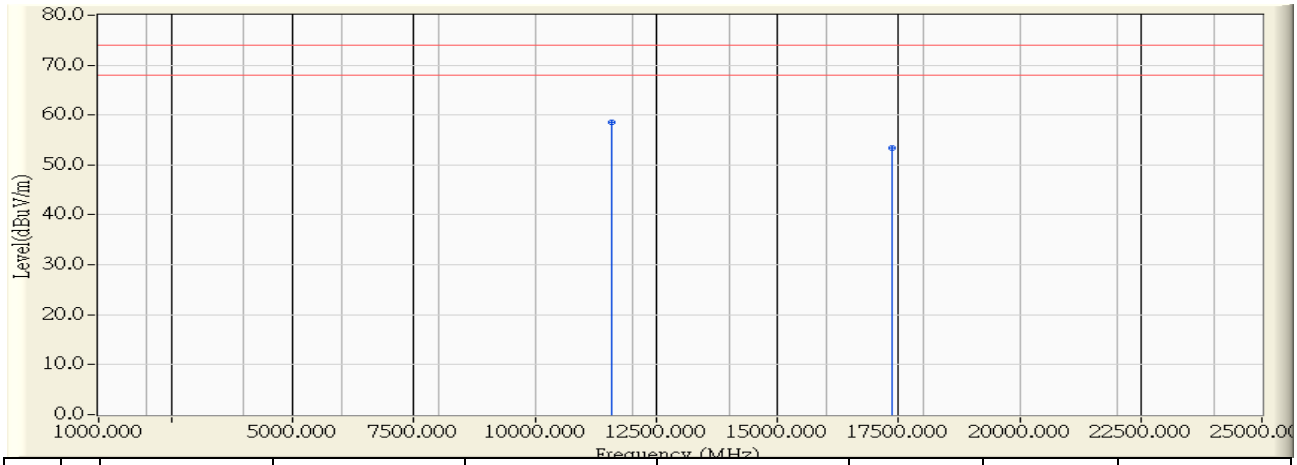


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	11.534	31.980	43.513	-10.487	54.000	AVERAGE
2		17235.000	15.422	23.820	39.242	-14.758	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 20:41**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

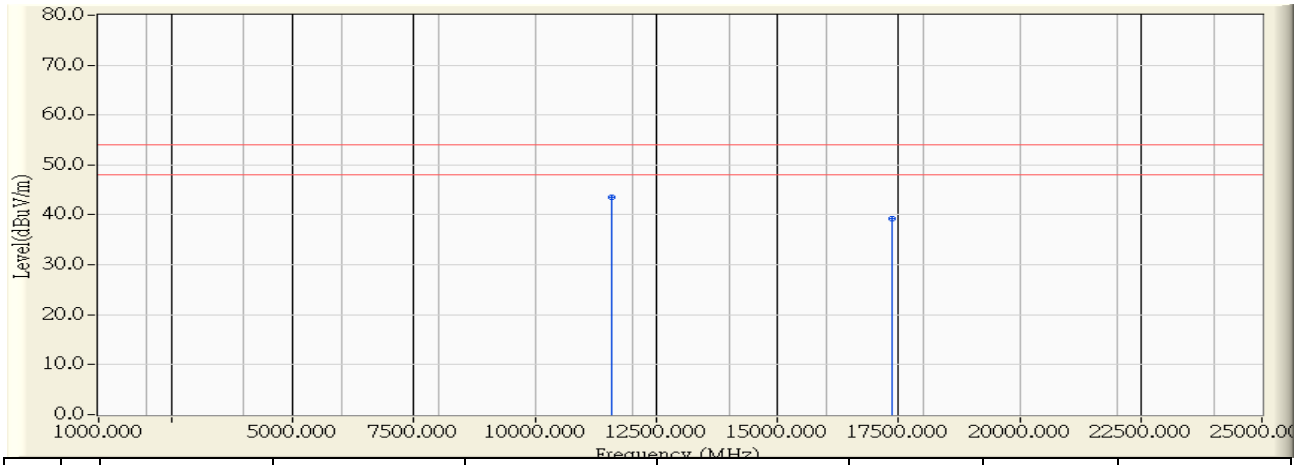


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	47.100	58.577	-15.423	74.000	PEAK
2		17355.000	15.974	37.480	53.454	-20.546	74.000	PEAK

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 : 2013/12/06 - 20:41**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

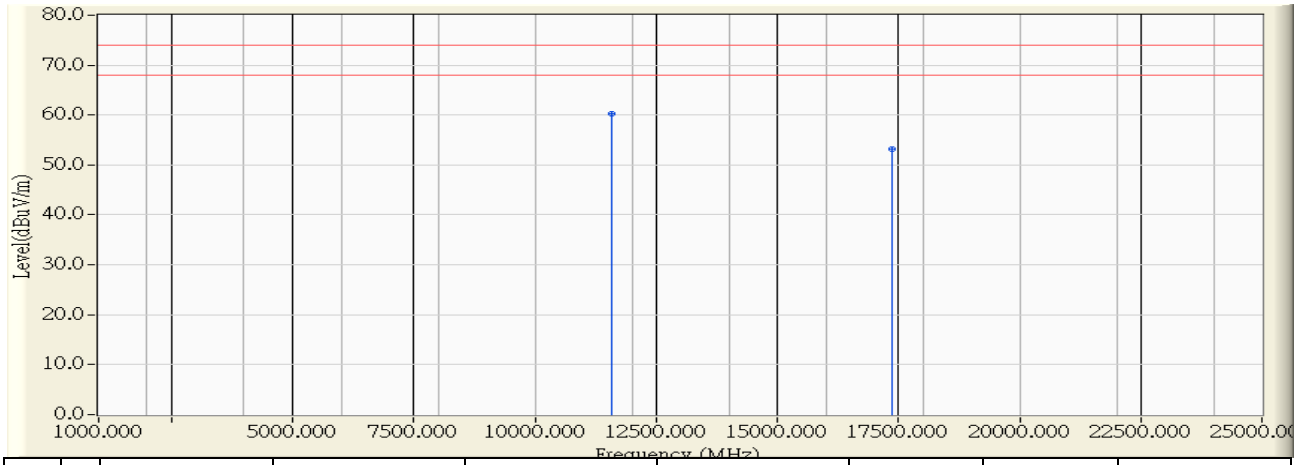


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	32.140	43.617	-10.383	54.000	AVERAGE
2		17355.000	15.974	23.220	39.194	-14.806	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 20:51**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

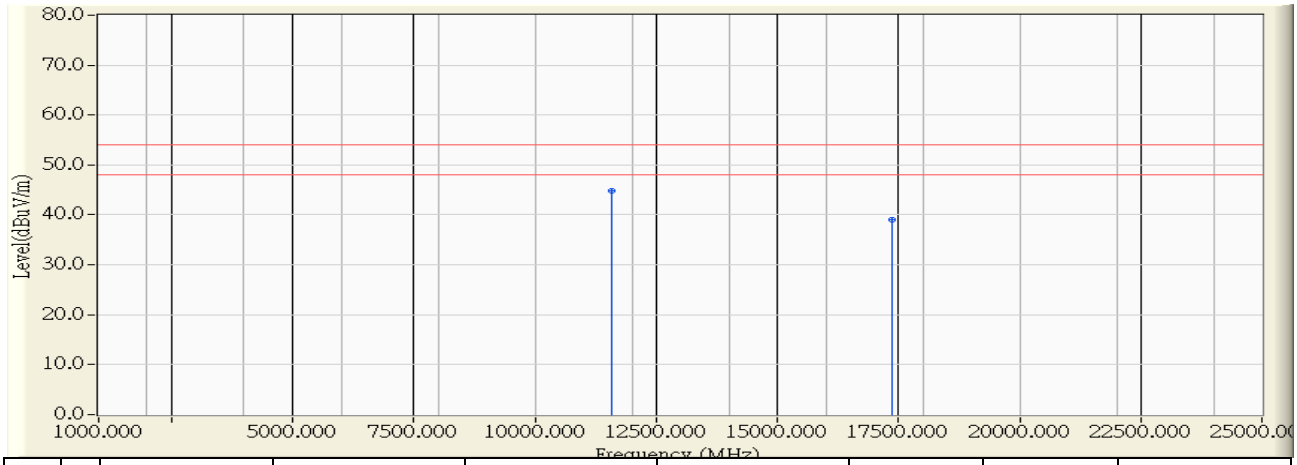


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	48.740	60.217	-13.783	74.000	PEAK
2		17355.000	15.974	37.250	53.224	-20.776	74.000	PEAK

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 : 2013/12/06 - 20:52**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5785MHz**

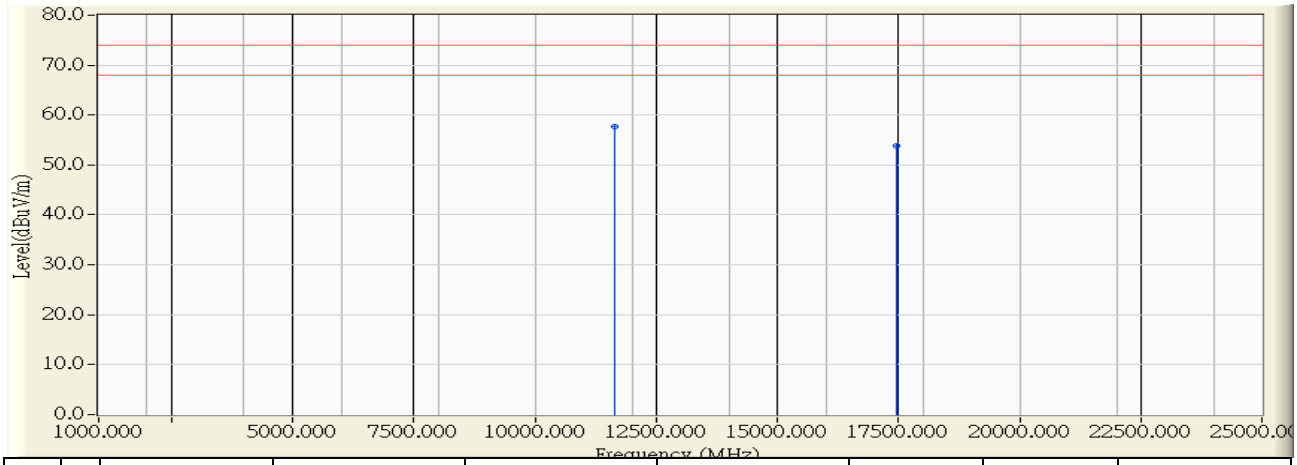


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	11.477	33.310	44.787	-9.213	54.000	AVERAGE
2		17355.000	15.974	23.160	39.134	-14.866	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:00**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5825MHz**

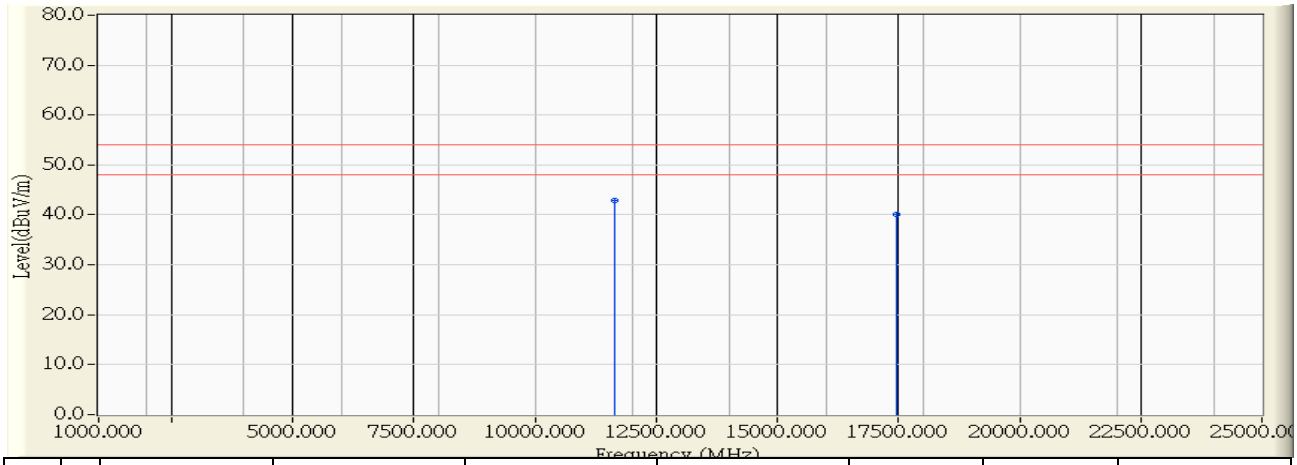


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	46.270	57.685	-16.315	74.000	PEAK
2		17475.000	16.526	37.290	53.816	-20.184	74.000	PEAK

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 : 2013/12/06 - 21:01**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5825MHz**

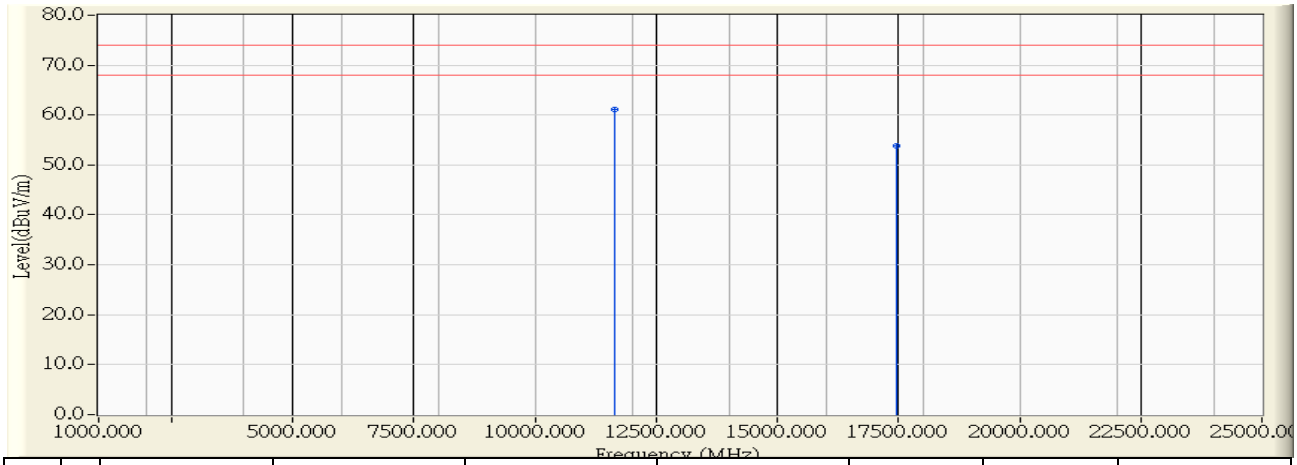


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	31.380	42.795	-11.205	54.000	AVERAGE
2		17475.000	16.526	23.620	40.146	-13.854	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:08**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5825MHz**

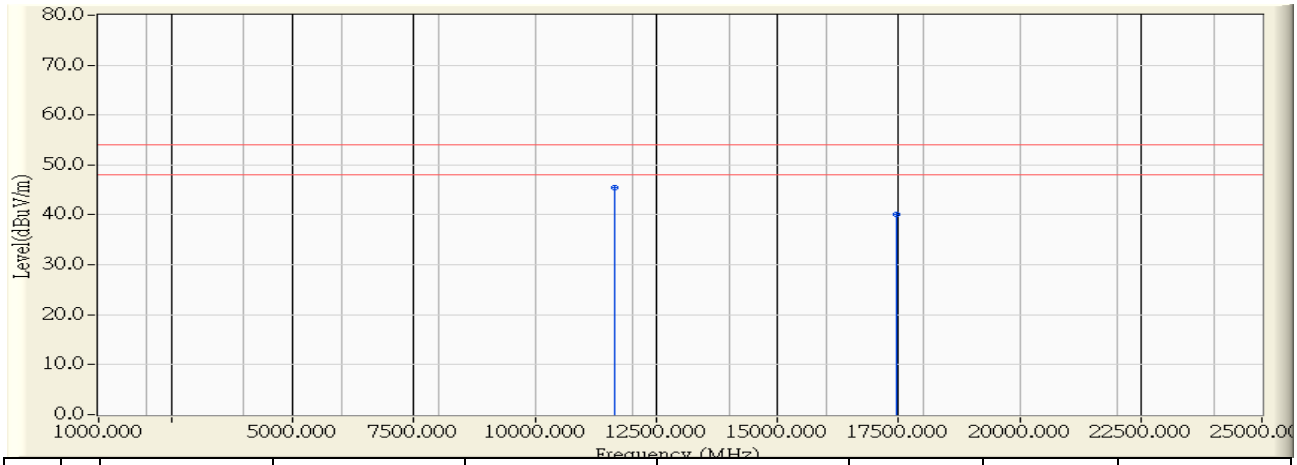


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	49.790	61.205	-12.795	74.000	PEAK
2		17475.000	16.526	37.380	53.906	-20.094	74.000	PEAK

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 : 2013/12/06 - 21:09**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n20_5825MHz**

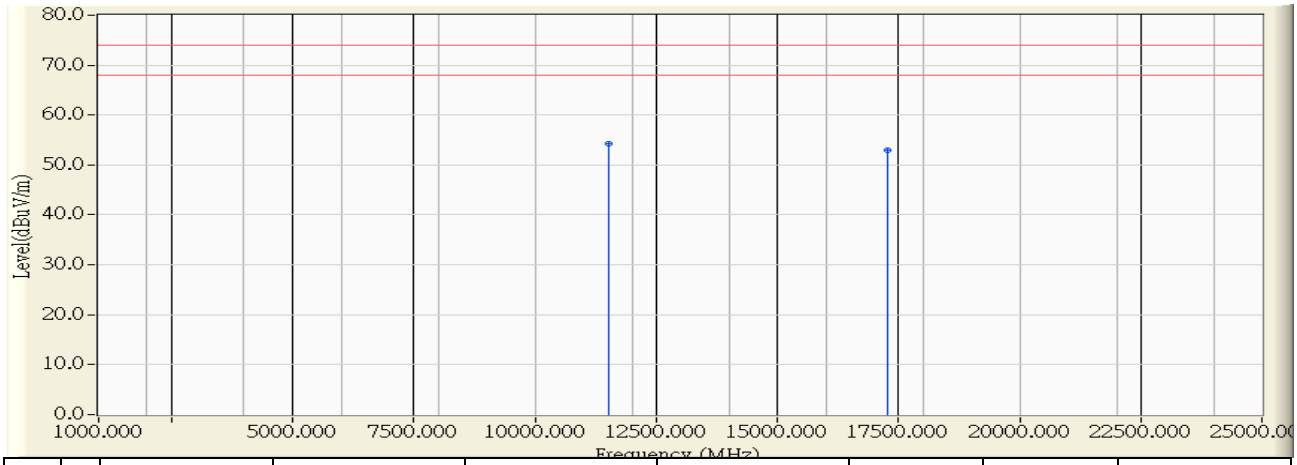


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	11.415	34.020	45.435	-8.565	54.000	AVERAGE
2		17475.000	16.526	23.590	40.116	-13.884	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:17**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5755MHz**

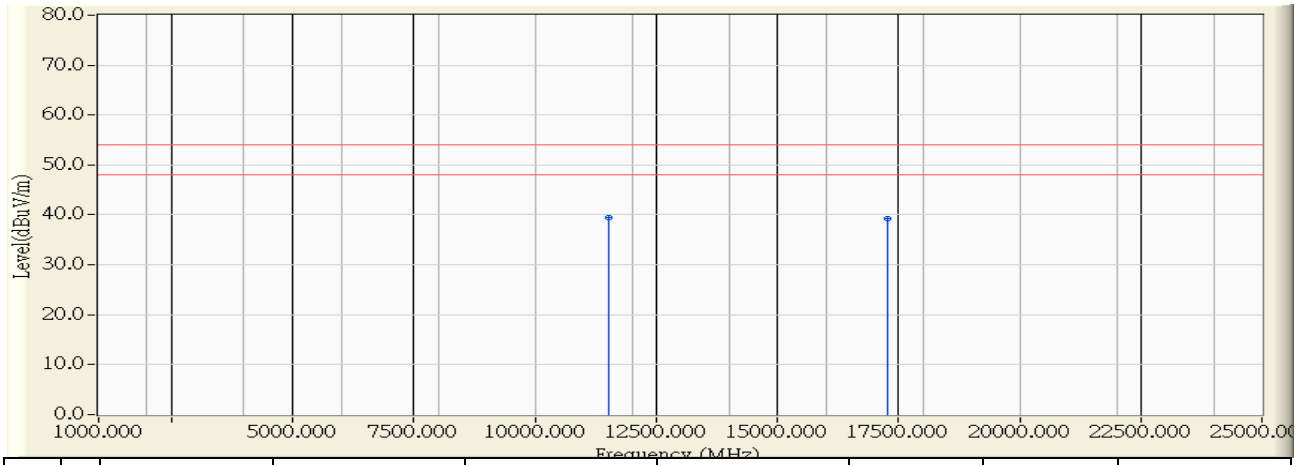


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	42.650	54.173	-19.827	74.000	PEAK
2		17265.000	15.560	37.460	53.020	-20.980	74.000	PEAK

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 : 2013/12/06 - 21:18**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5755MHz**

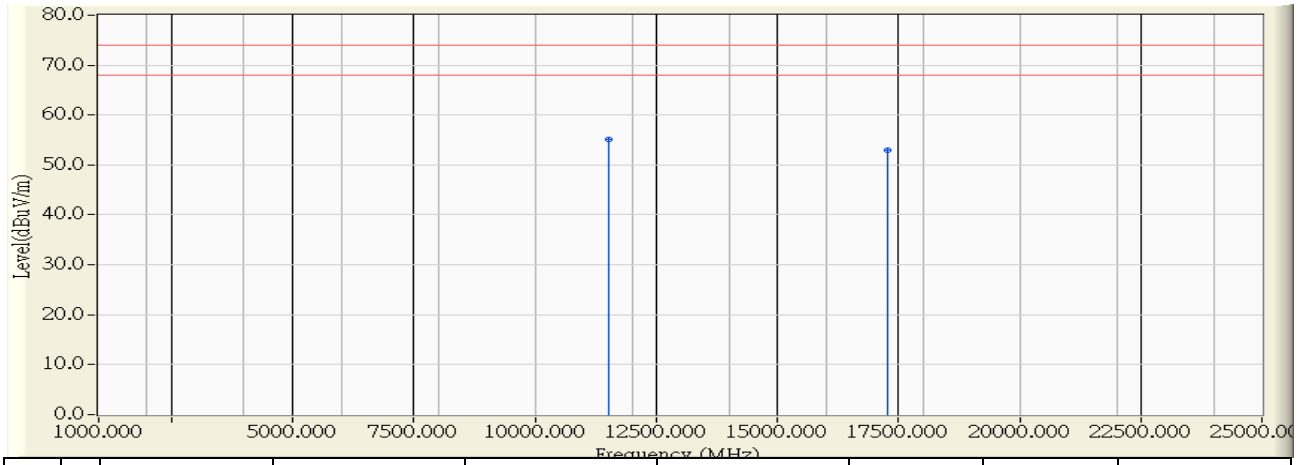


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	27.980	39.503	-14.497	54.000	AVERAGE
2		17265.000	15.560	23.730	39.290	-14.710	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:23**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5755MHz**

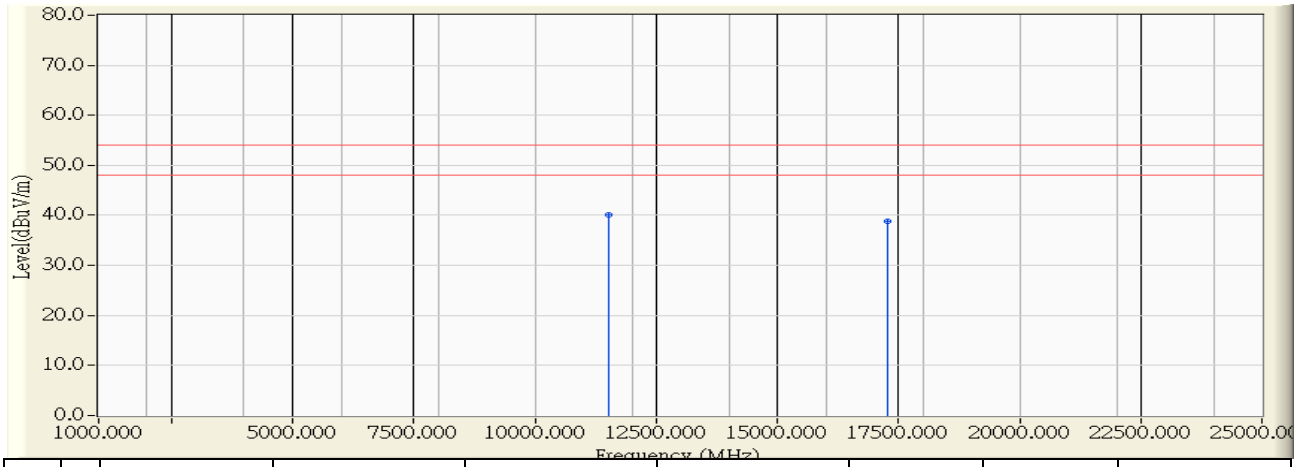


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	43.500	55.023	-18.977	74.000	PEAK
2		17265.000	15.560	37.340	52.900	-21.100	74.000	PEAK

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 : 2013/12/06 - 21:24**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5755MHz**

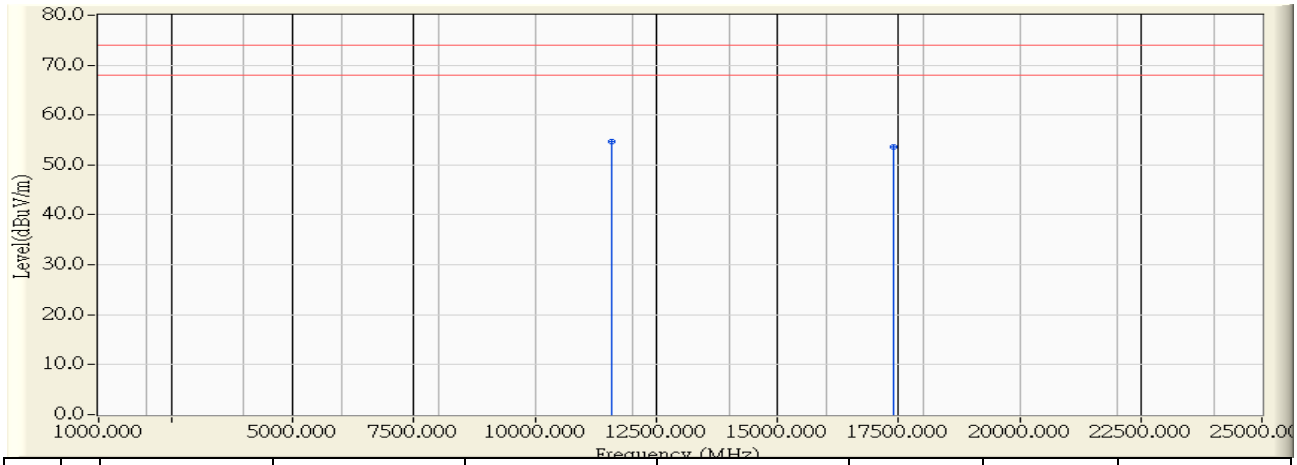


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11510.000	11.523	28.540	40.063	-13.937	54.000	AVERAGE
2		17265.000	15.560	23.280	38.840	-15.160	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:29**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

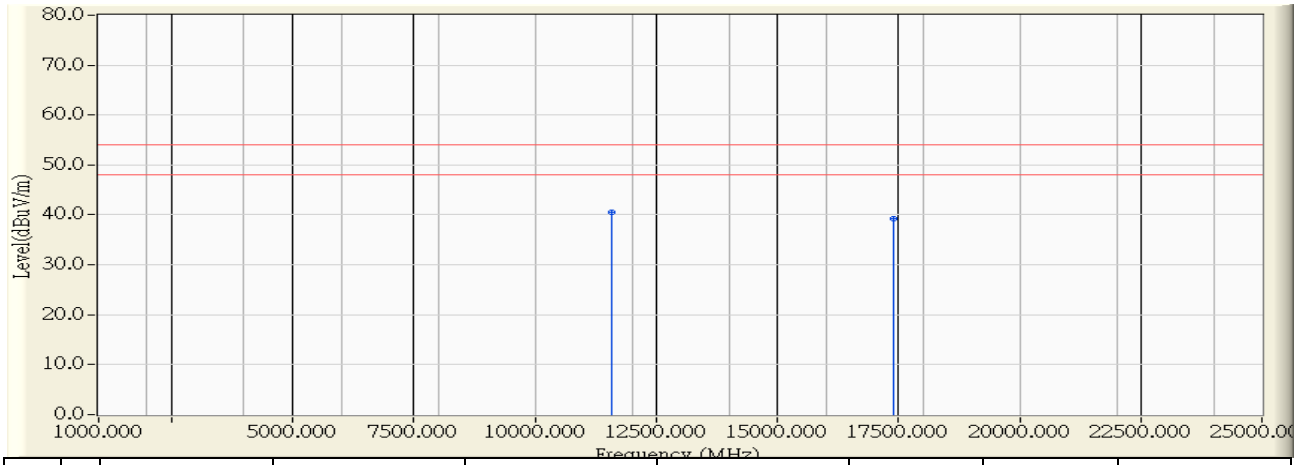


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	43.330	54.791	-19.209	74.000	PEAK
2		17385.000	16.112	37.490	53.602	-20.398	74.000	PEAK

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 : 2013/12/06 - 21:30**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

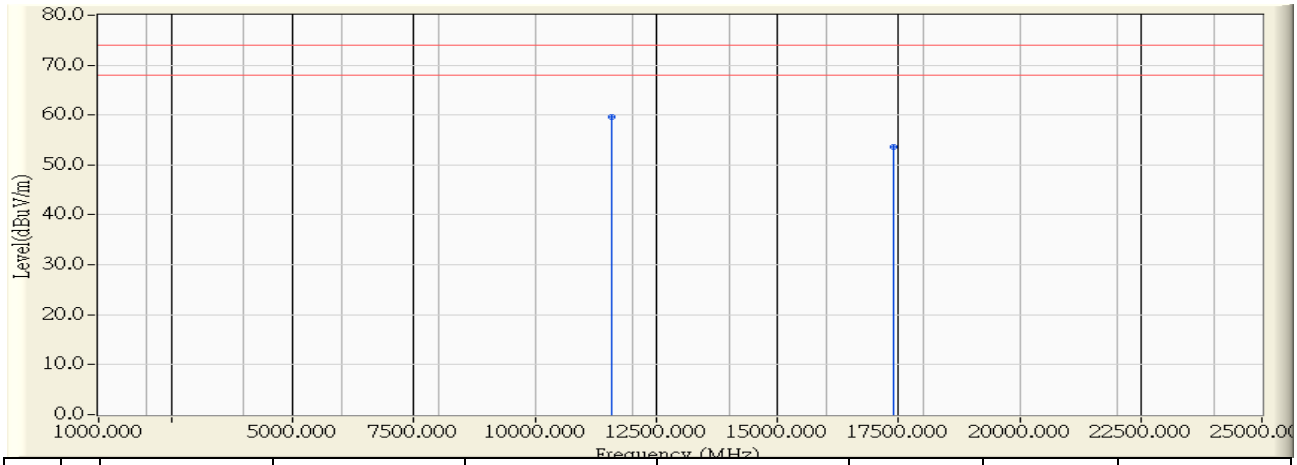


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	28.980	40.441	-13.559	54.000	AVERAGE
2		17385.000	16.112	23.240	39.352	-14.648	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:38**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

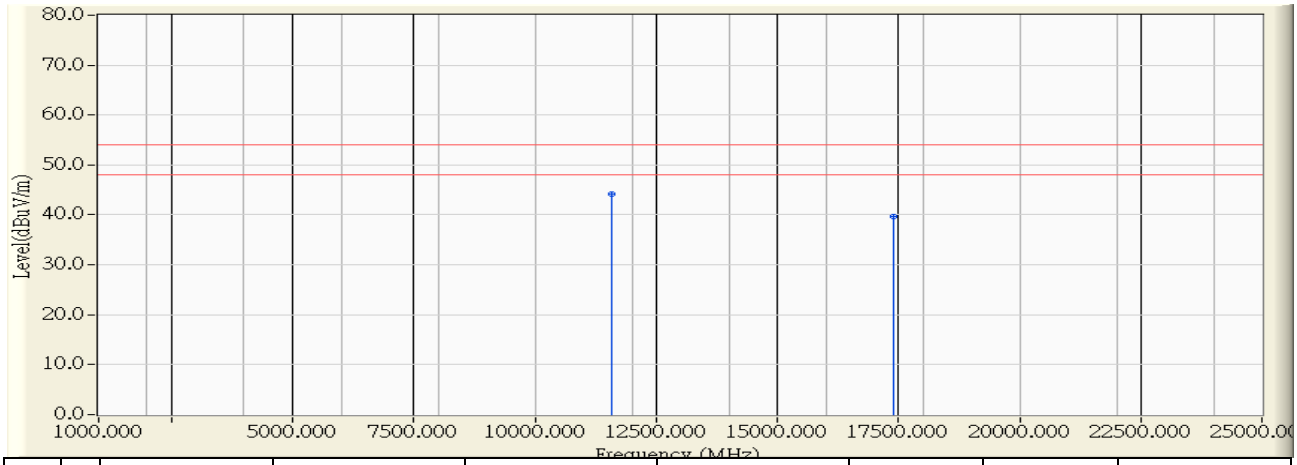


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	48.130	59.591	-14.409	74.000	PEAK
2		17385.000	16.112	37.410	53.522	-20.478	74.000	PEAK

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 : 2013/12/06 - 21:39**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11n40_5795MHz**

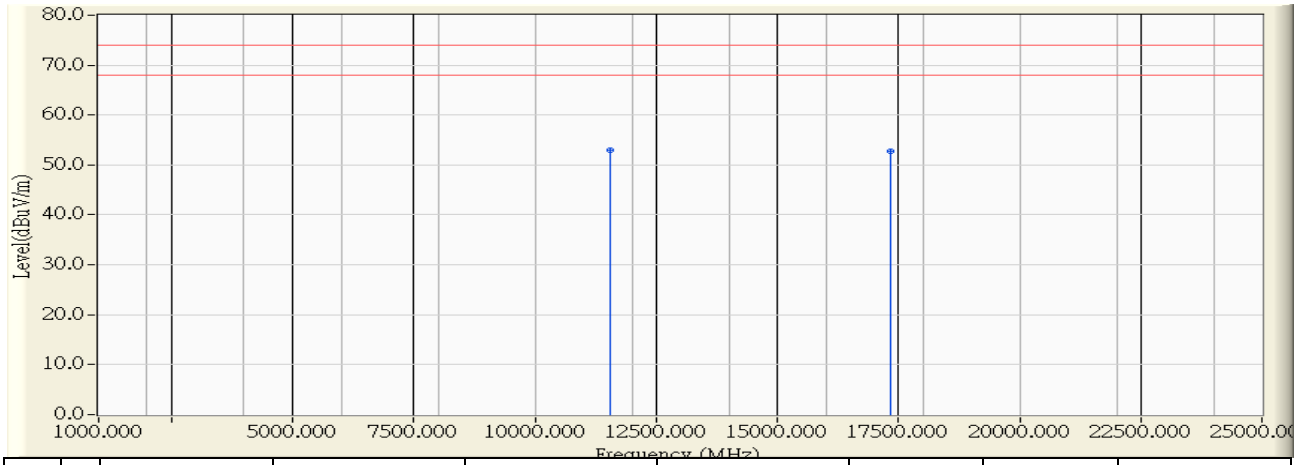


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	11.461	32.650	44.111	-9.889	54.000	AVERAGE
2		17385.000	16.112	23.520	39.632	-14.368	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:45**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**

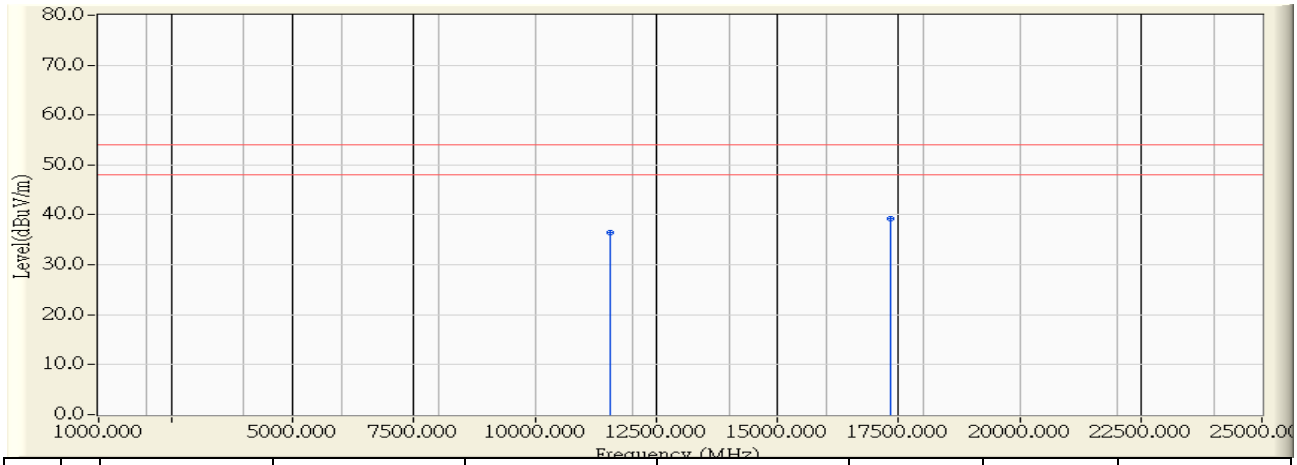


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	11.492	41.490	52.982	-21.018	74.000	PEAK
2		17325.000	15.836	36.950	52.786	-21.214	74.000	PEAK

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 : 2013/12/06 - 21:46**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**

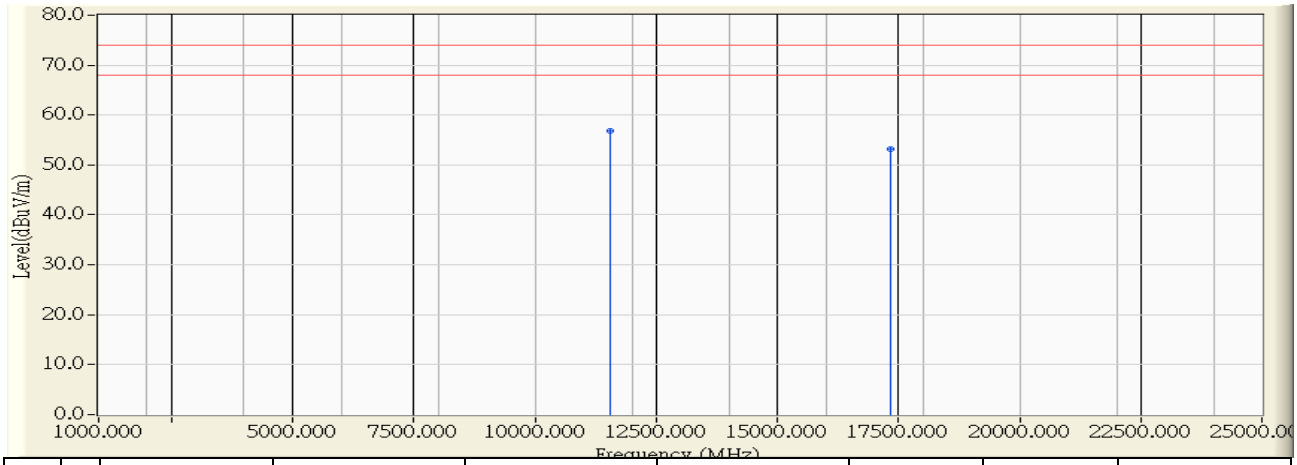


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11550.000	11.492	25.050	36.542	-17.458	54.000	AVERAGE
2	*	17325.000	15.836	23.370	39.206	-14.794	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2013/12/06 - 21:50**
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 : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**

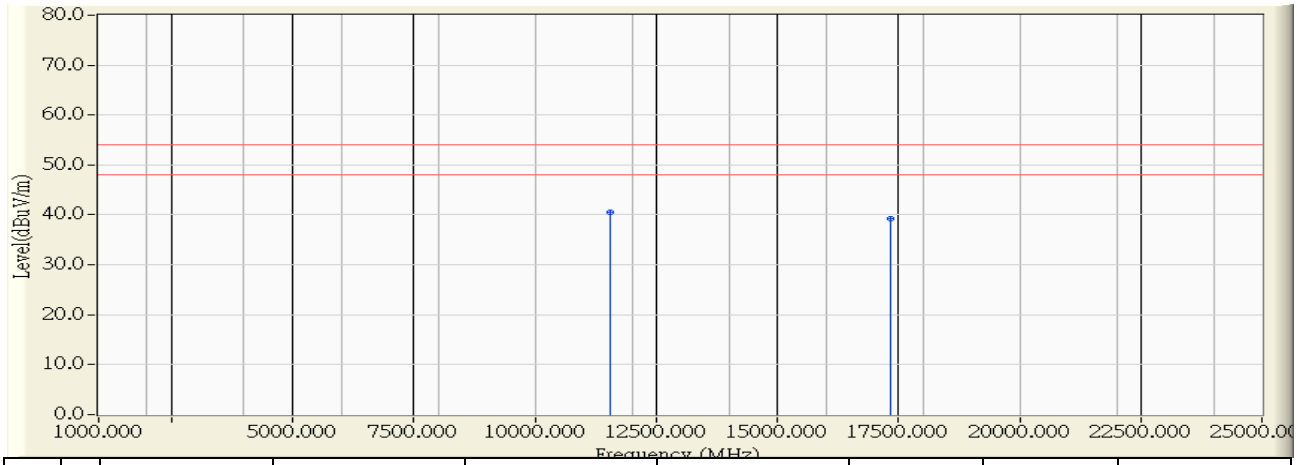


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	11.492	45.340	56.832	-17.168	74.000	PEAK
2		17325.000	15.836	37.430	53.266	-20.734	74.000	PEAK

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 : 2013/12/06 - 21:50**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : DC 3.3V (Power by PC)**
EUT : PCE-AC56 Dual-Band Wireless PCI-E Adapter	**Note : Mode 1: Transmit (CDD mode)** **802.11ac80_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11550.000	11.492	29.120	40.612	-13.388	54.000	AVERAGE
2		17325.000	15.836	23.320	39.156	-14.844	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

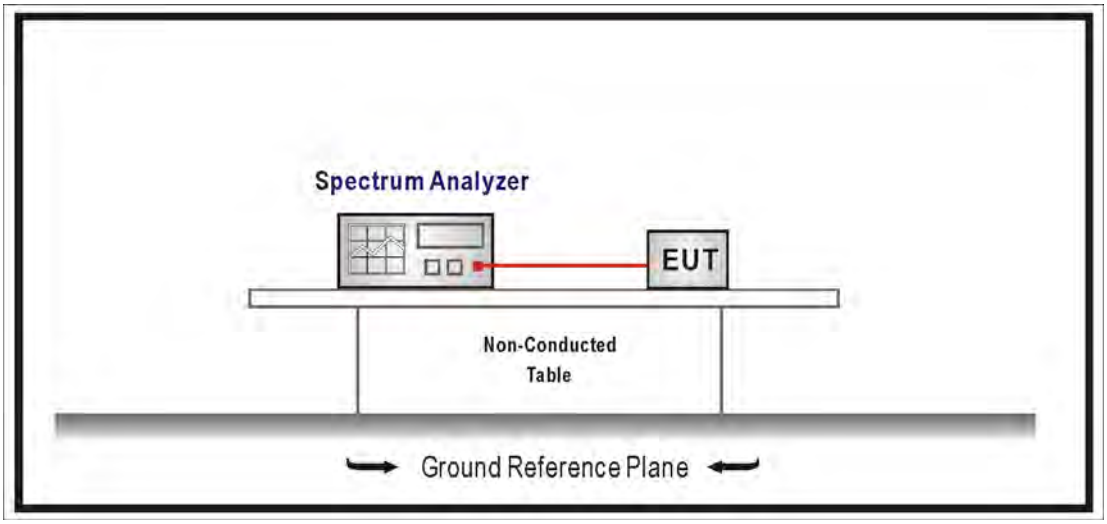
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

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 KDB558074 v03r01 for compliance to FCC 47CFR 15.247 requirements
Set RBW = 100 kHz, Set VBW≧3xRBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

5.6. Uncertainty

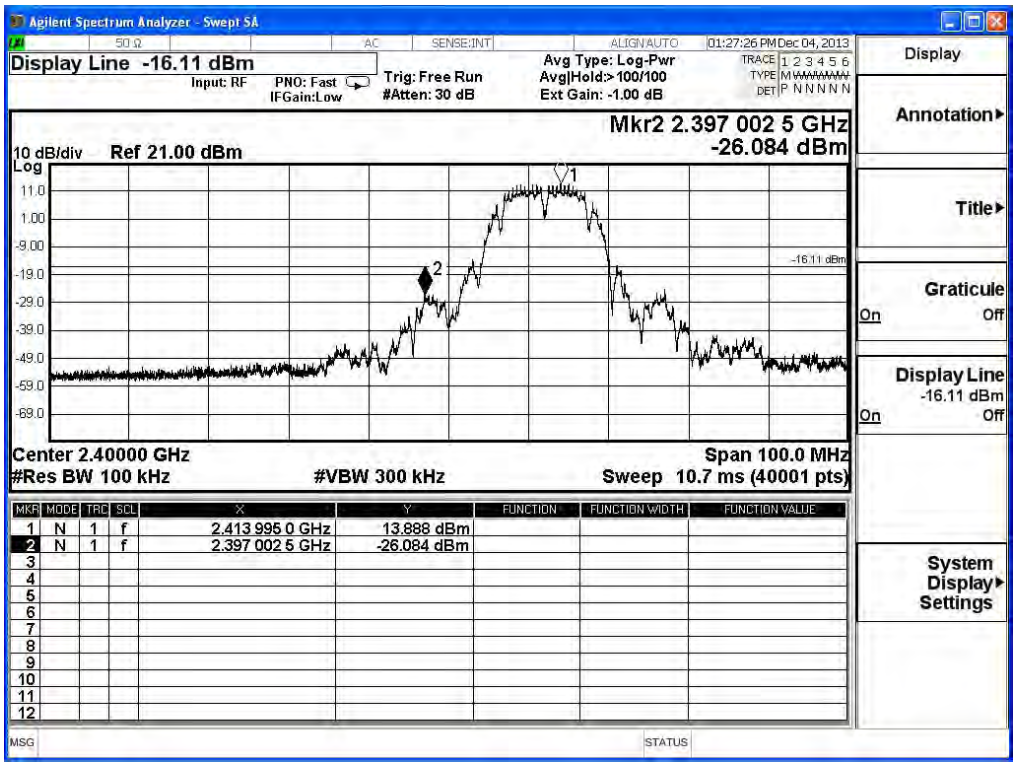
Conducted is defined as ± 1.27dB

5.7. Test Result

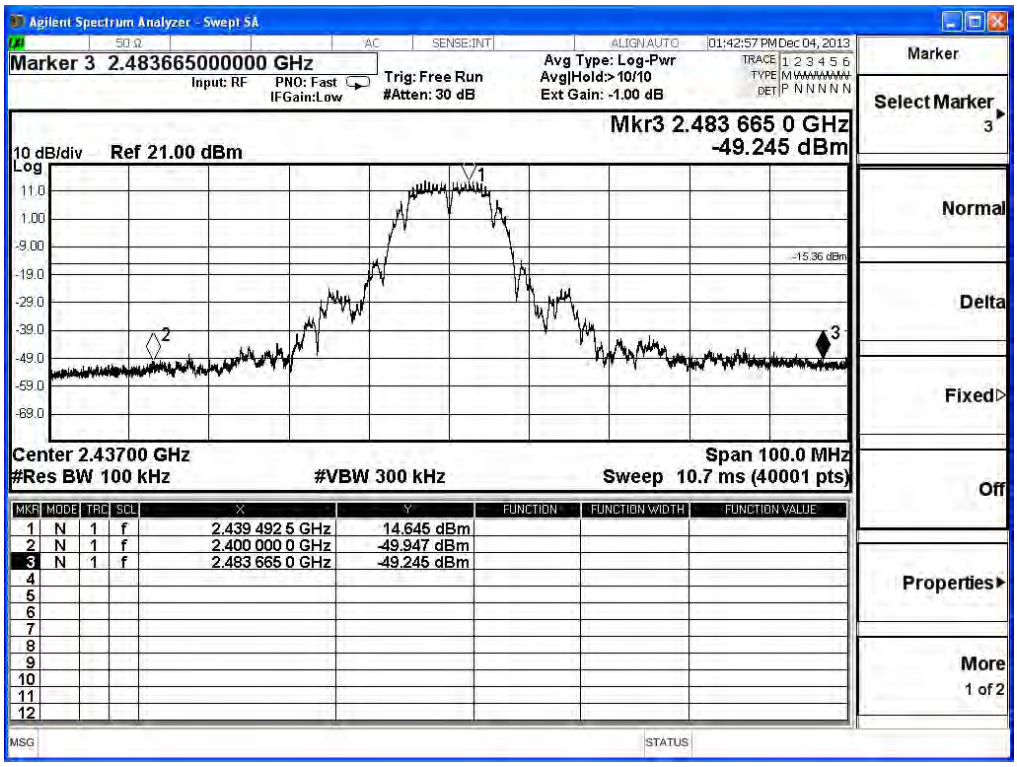
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11b(ANT 0), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.97	≧30	Pass
6	2437	63.89	≧30	Pass
11	2462	58.88	≧30	Pass

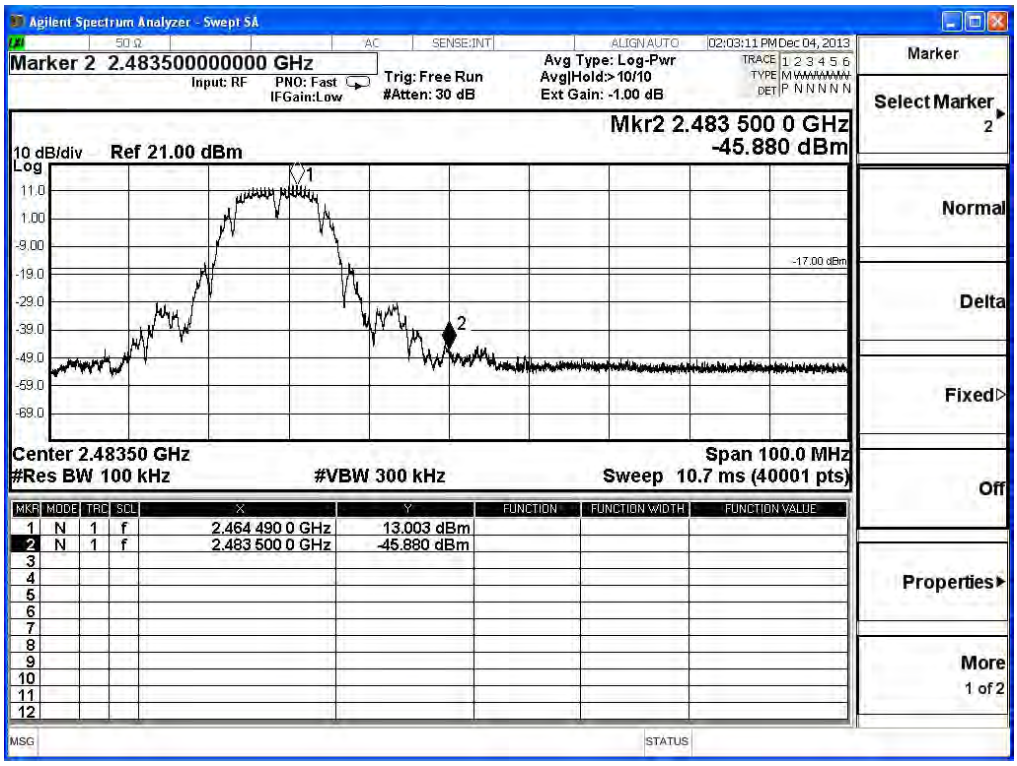
Channel 01 (2412MHz)



Channel 06 (2437MHz)



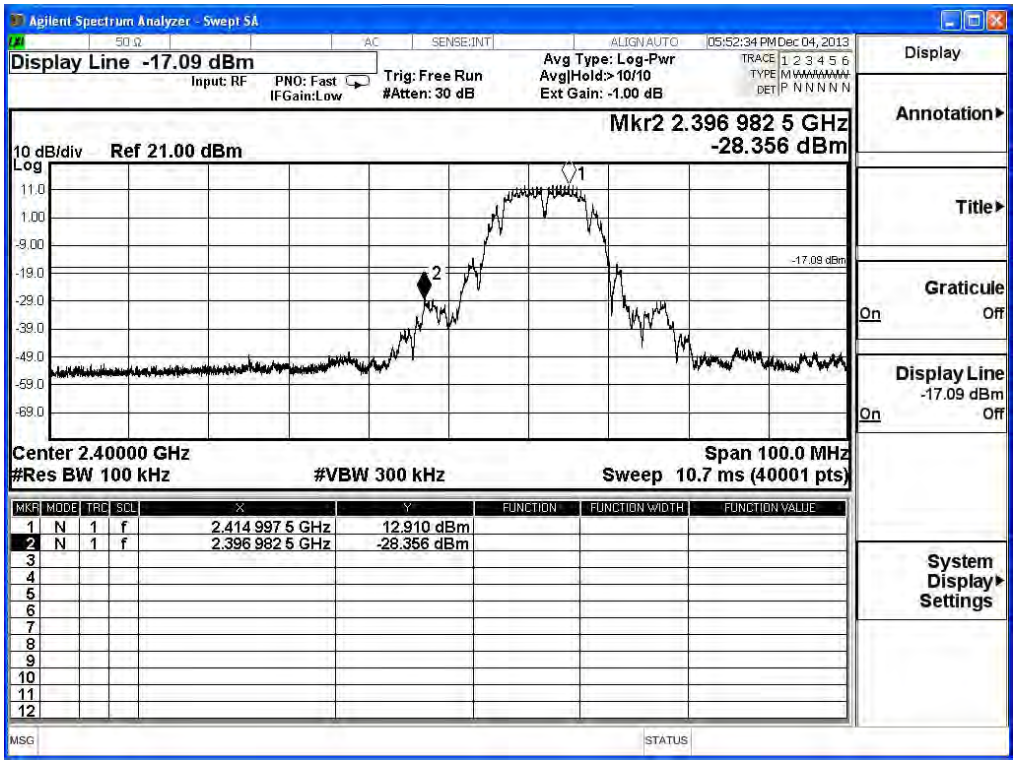
Channel 11 (2462MHz)



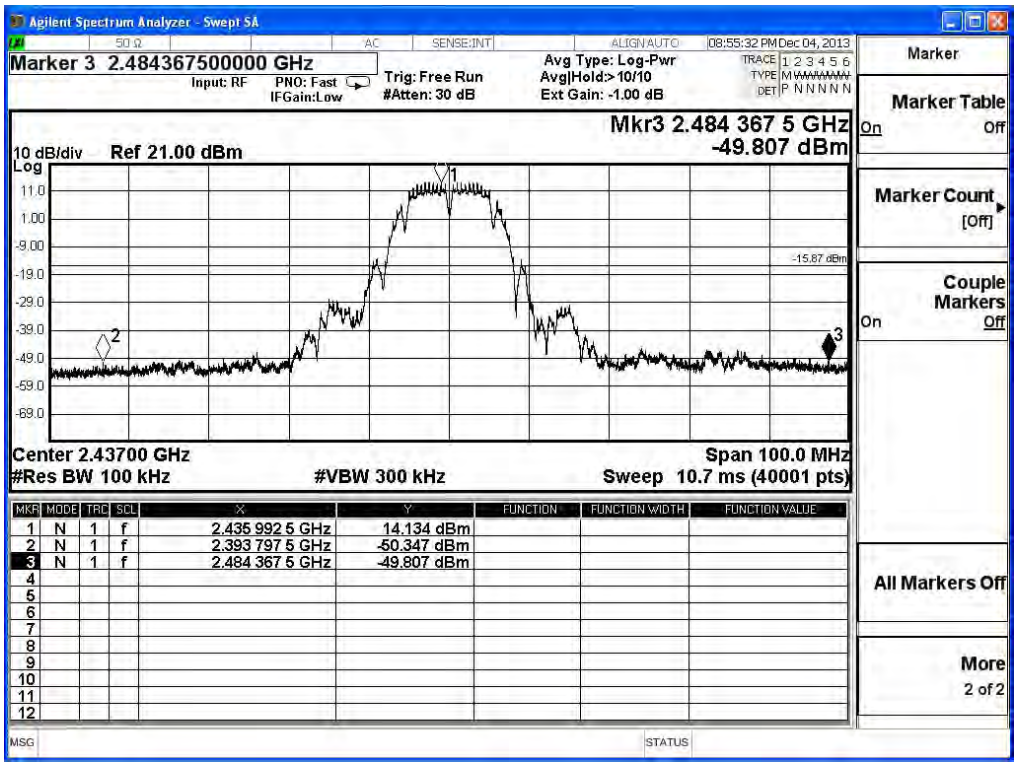
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11b(ANT 1), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.27	≧30	Pass
6	2437	63.94	≧30	Pass
11	2462	57.82	≧30	Pass

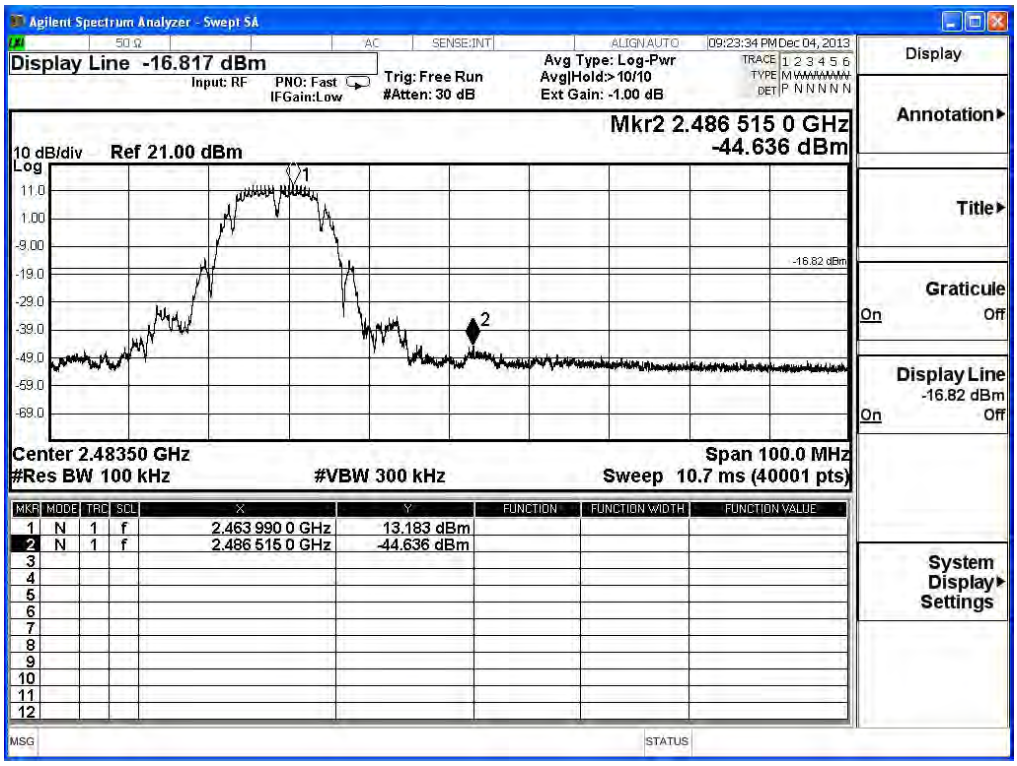
Channel 01 (2412MHz)



Channel 06 (2437MHz)



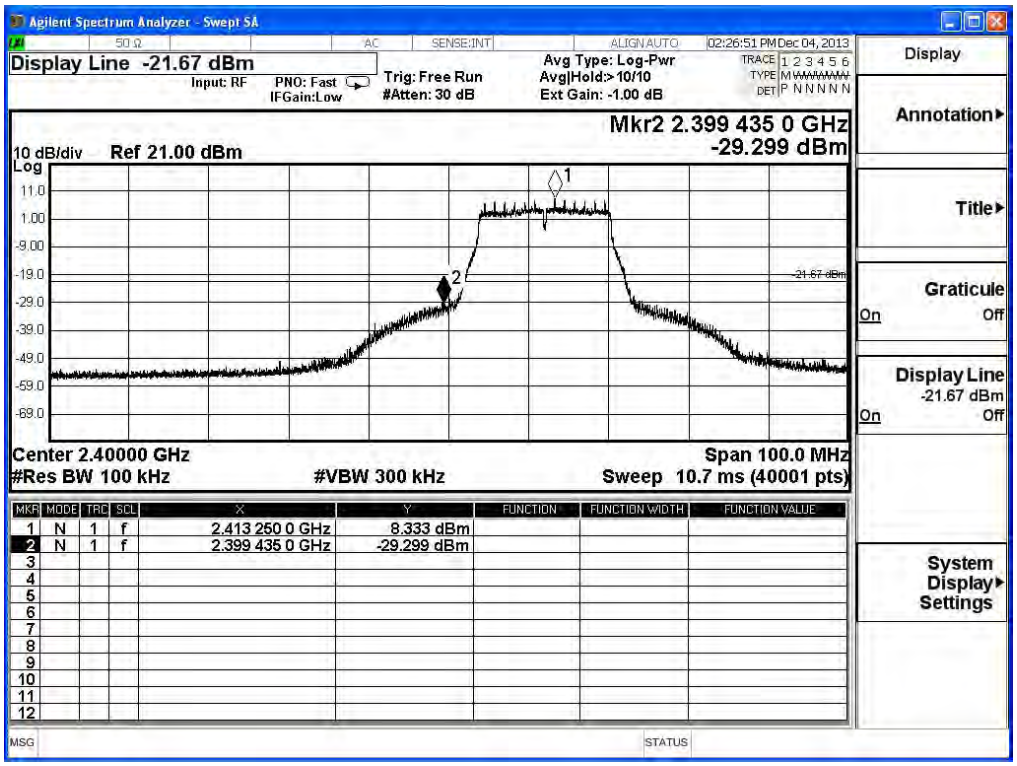
Channel 11 (2462MHz)



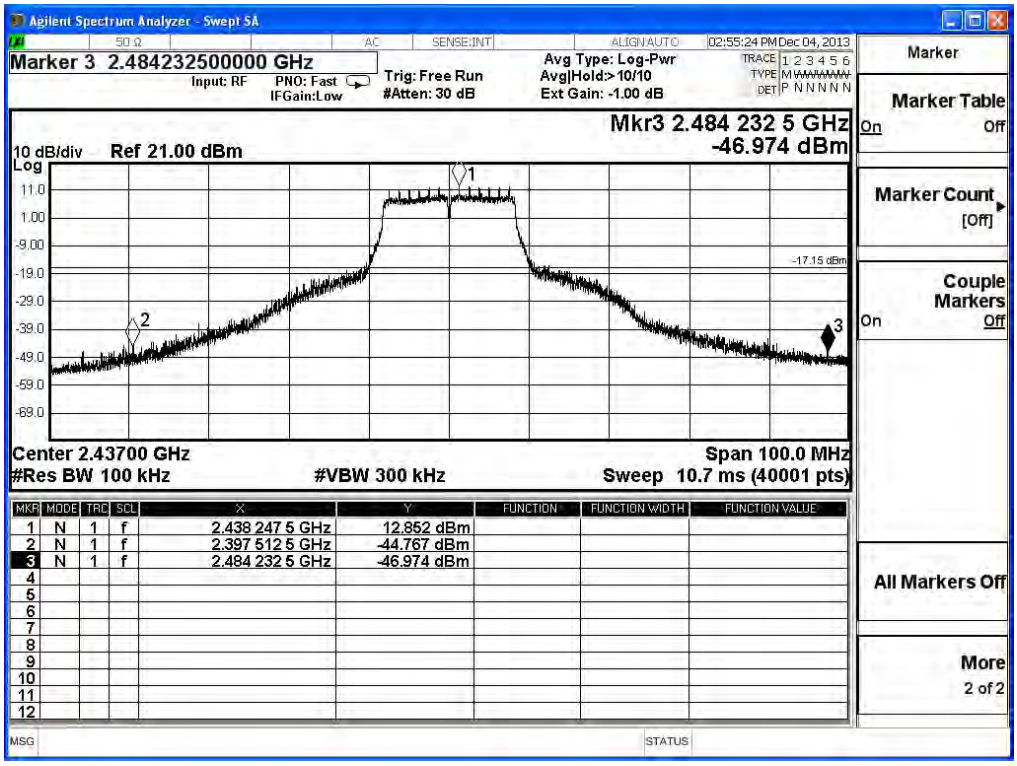
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11g (ANT 0), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.63	≧30	Pass
6	2437	57.62	≧30	Pass
11	2462	50.57	≧30	Pass

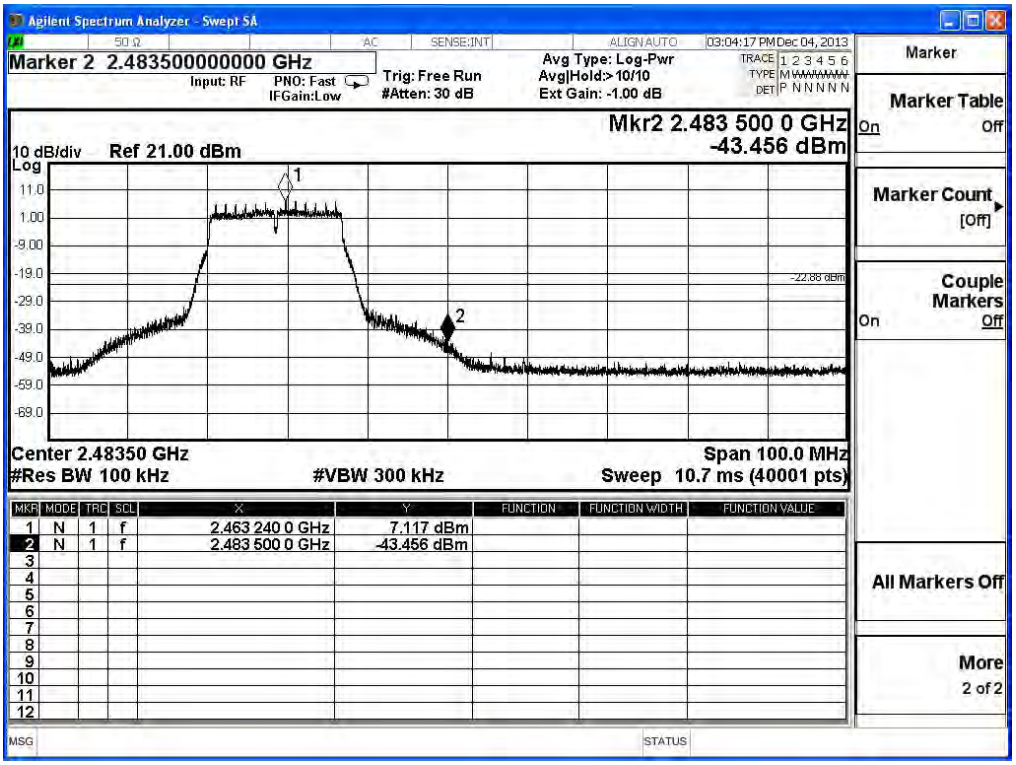
Channel 01 (2412MHz)



Channel 06 (2437MHz)



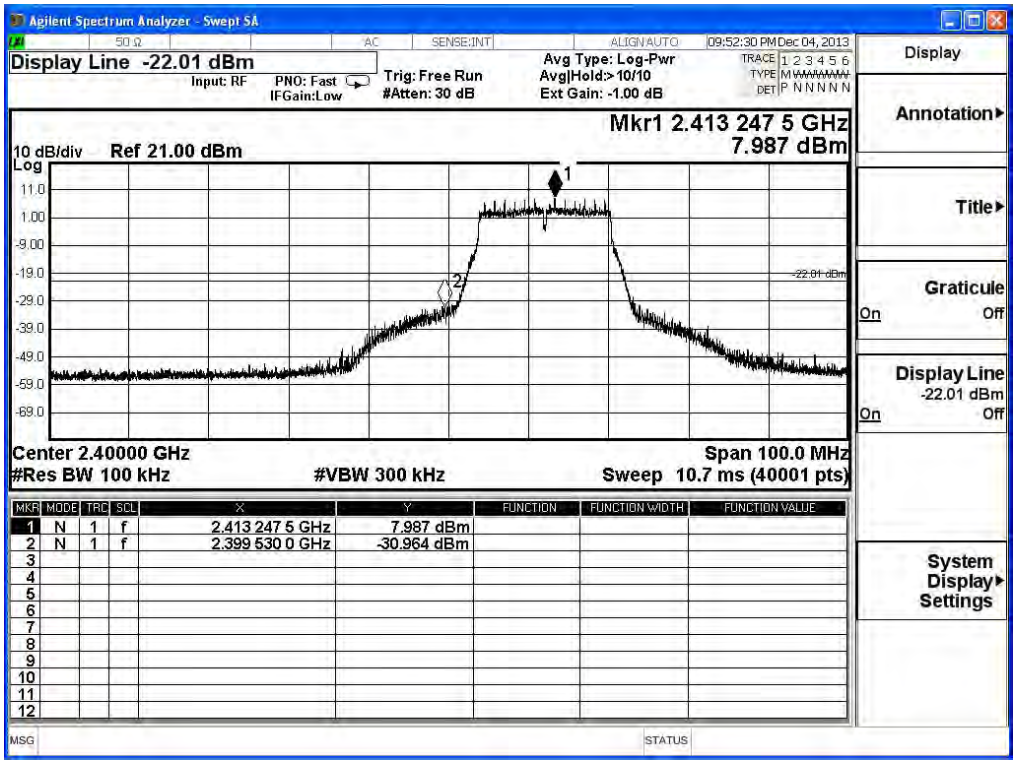
Channel 11 (2462MHz)



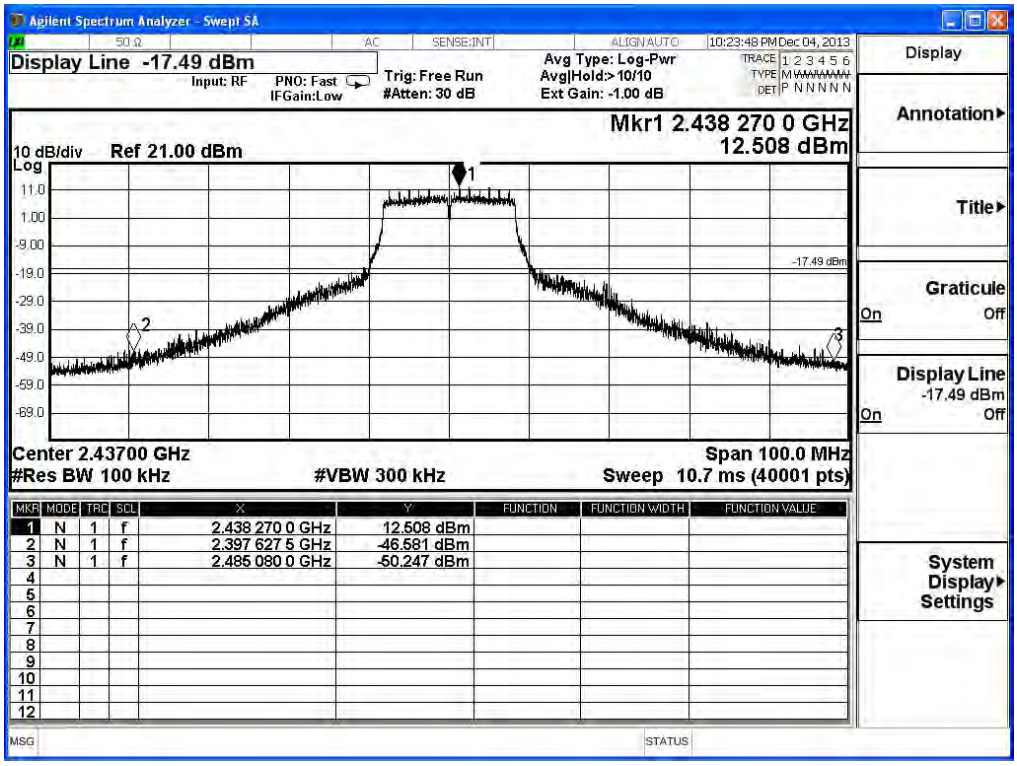
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11g (ANT 1), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.95	≧30	Pass
6	2437	59.09	≧30	Pass
11	2462	50.29	≧30	Pass

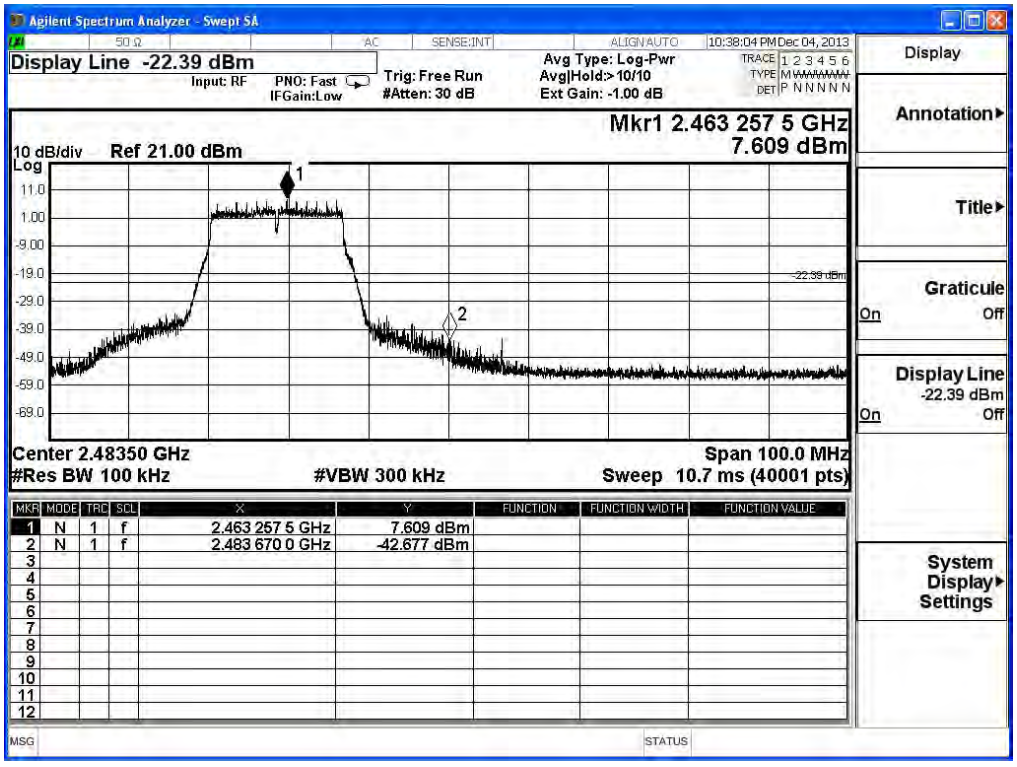
Channel 01 (2412MHz)



Channel 06 (2437MHz)



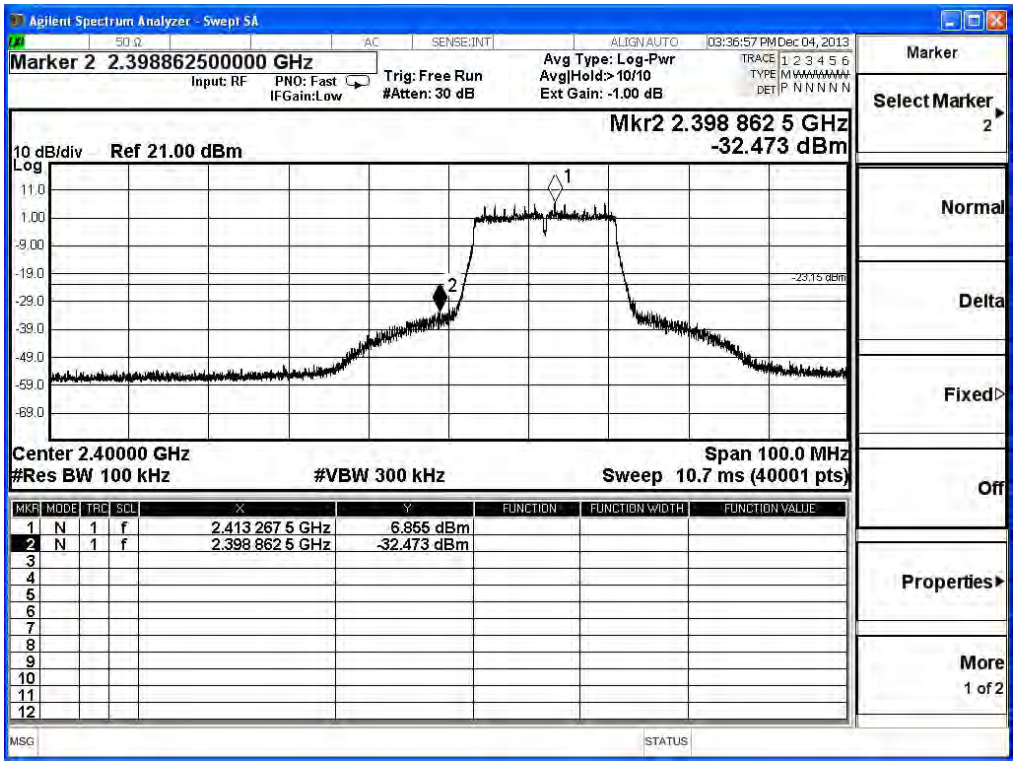
Channel 11 (2462MHz)



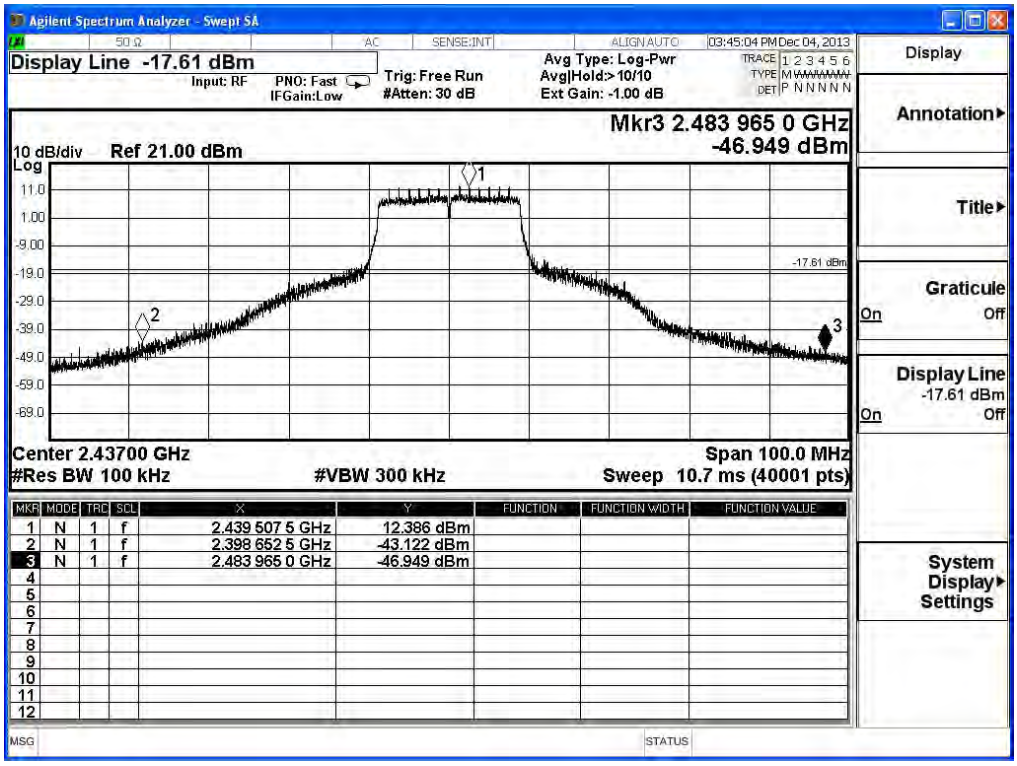
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.33	≧30	Pass
6	2437	55.51	≧30	Pass
11	2462	49.27	≧30	Pass

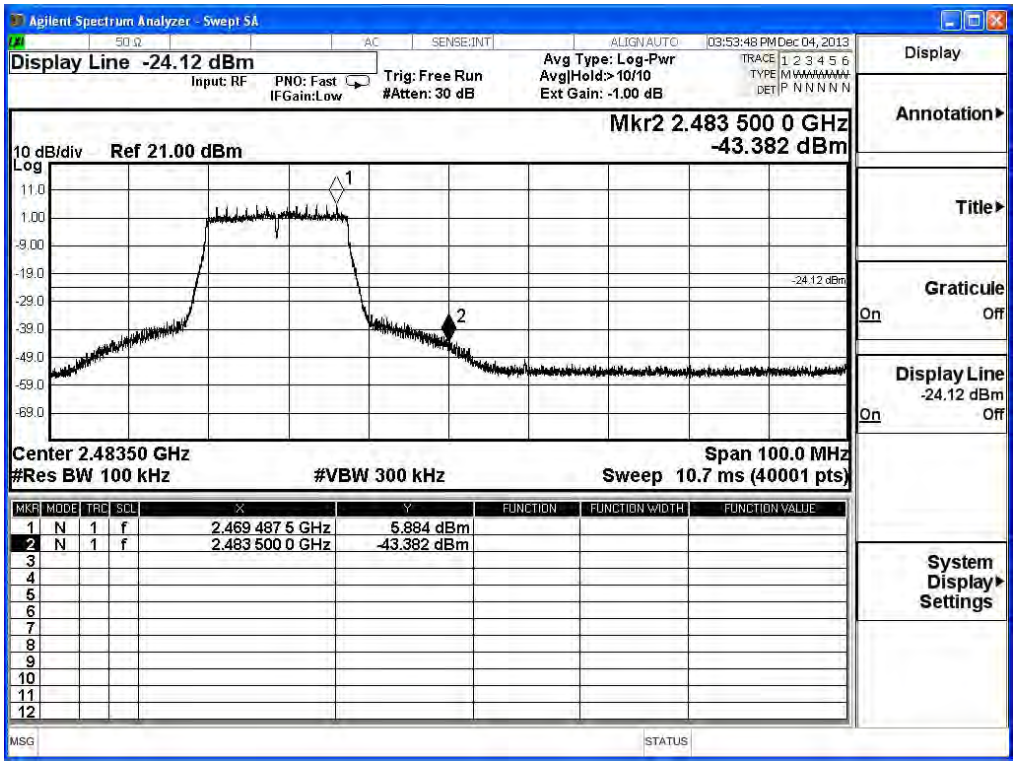
Channel 1 (2412MHz)



Channel 06 (2437MHz)



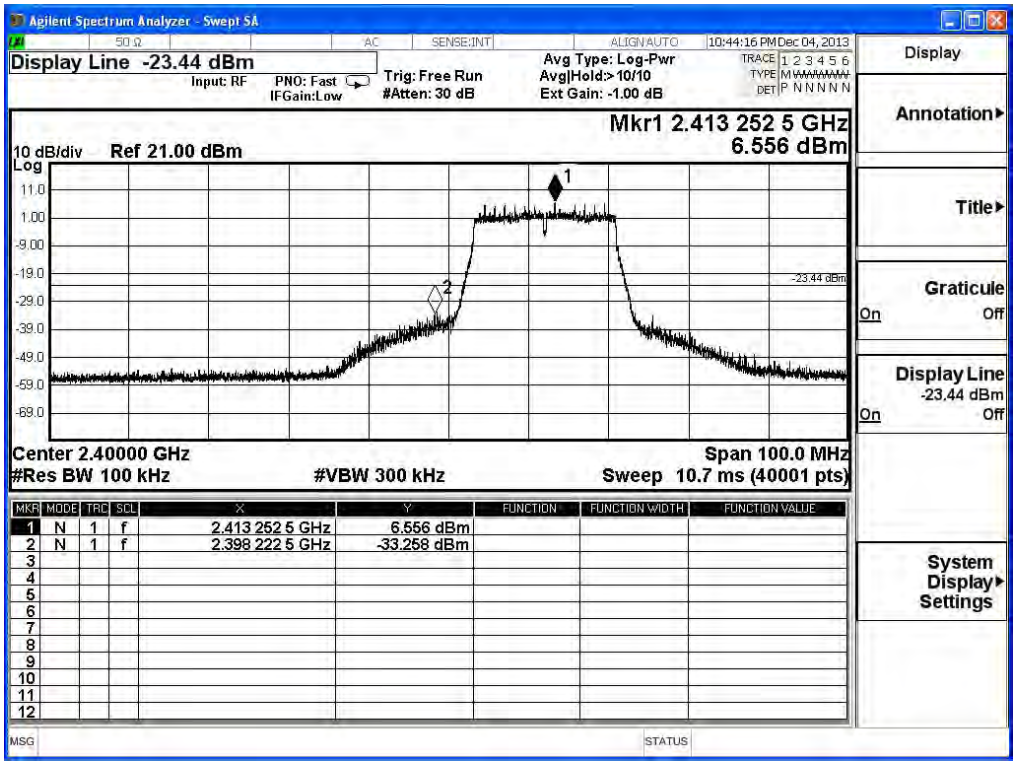
Channel 11 (2462MHz)



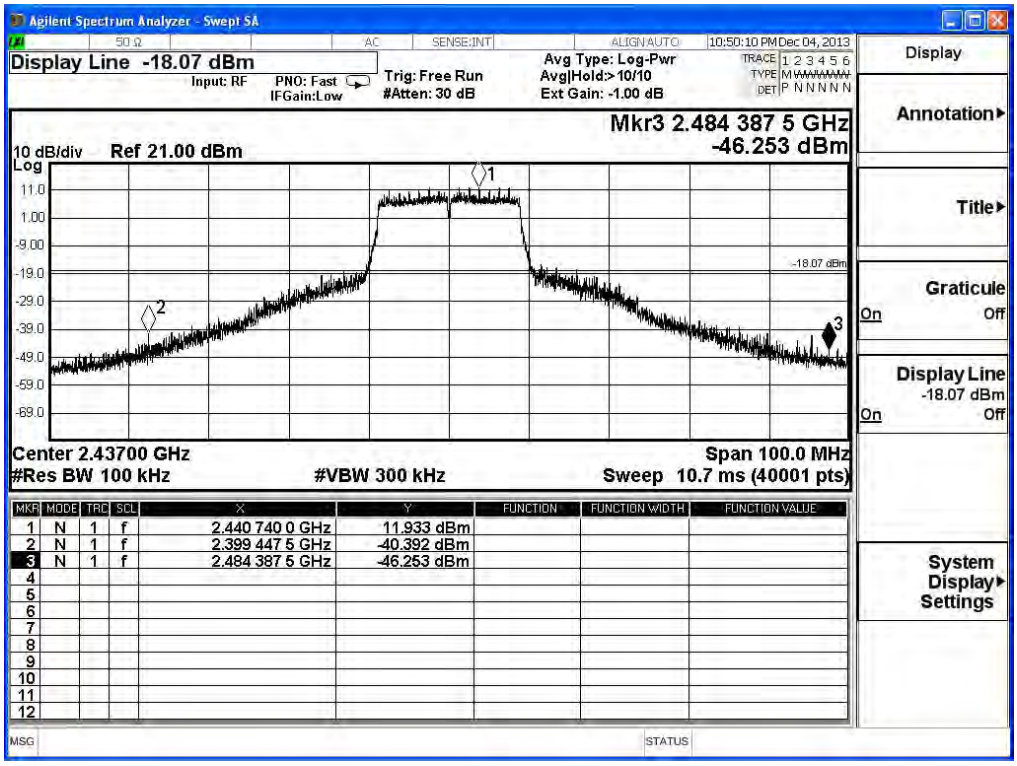
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	39.81	≧30	Pass
6	2437	52.33	≧30	Pass
11	2462	52.44	≧30	Pass

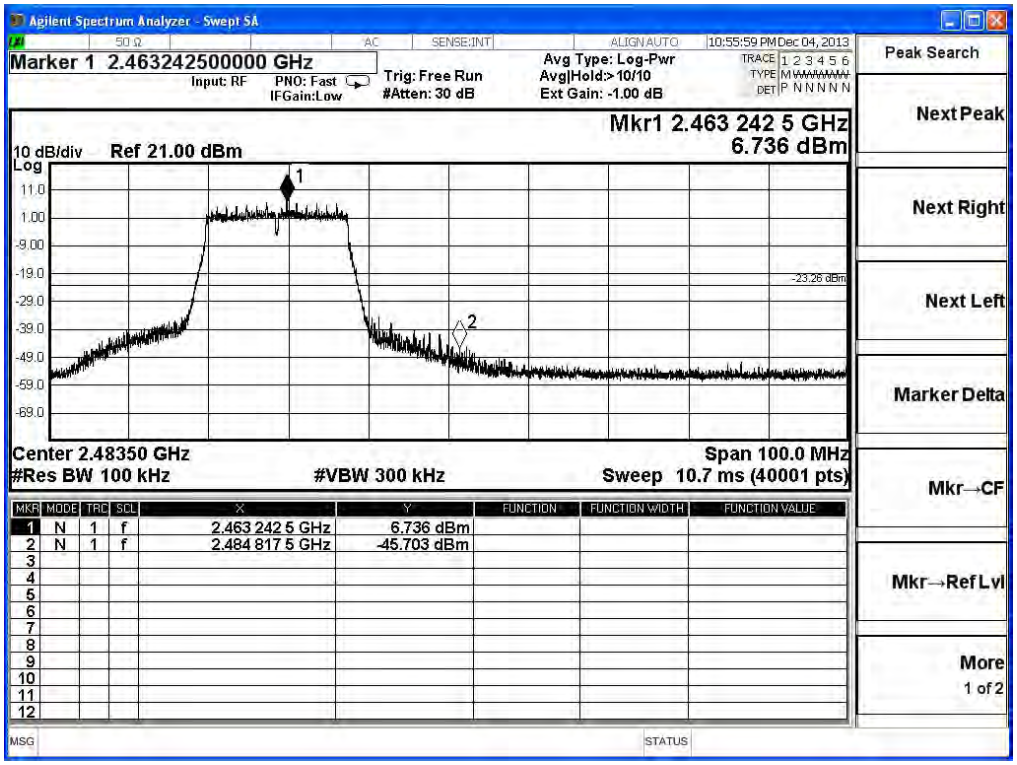
Channel 1 (2412MHz)



Channel 06 (2437MHz)



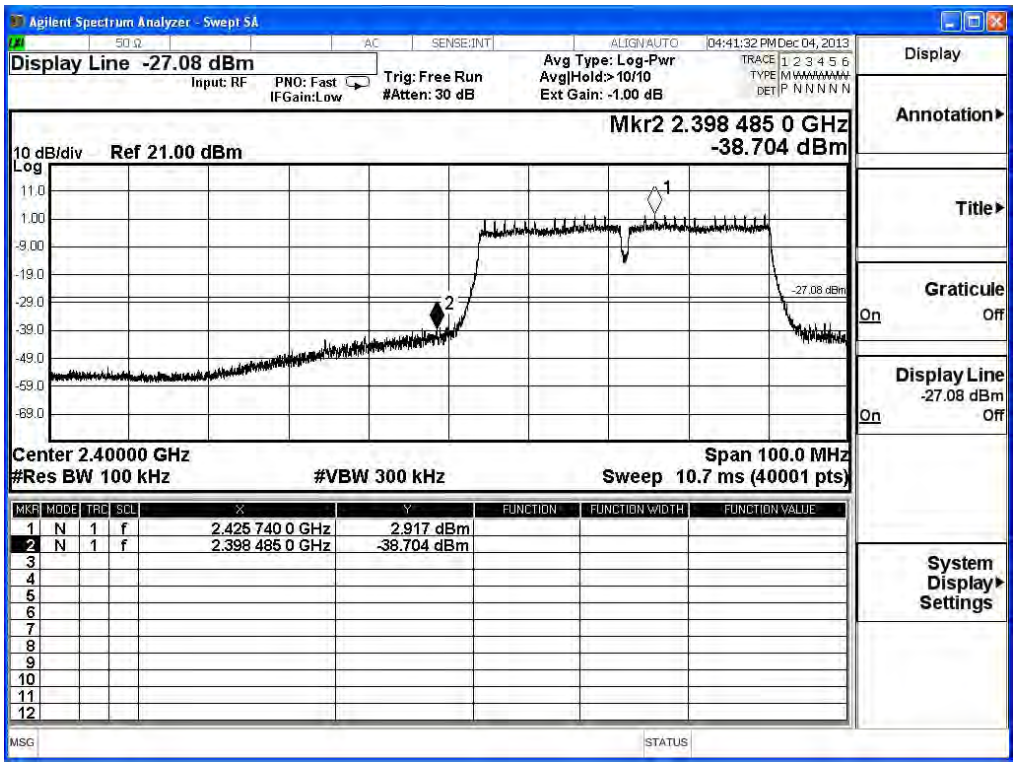
Channel 11 (2462MHz)



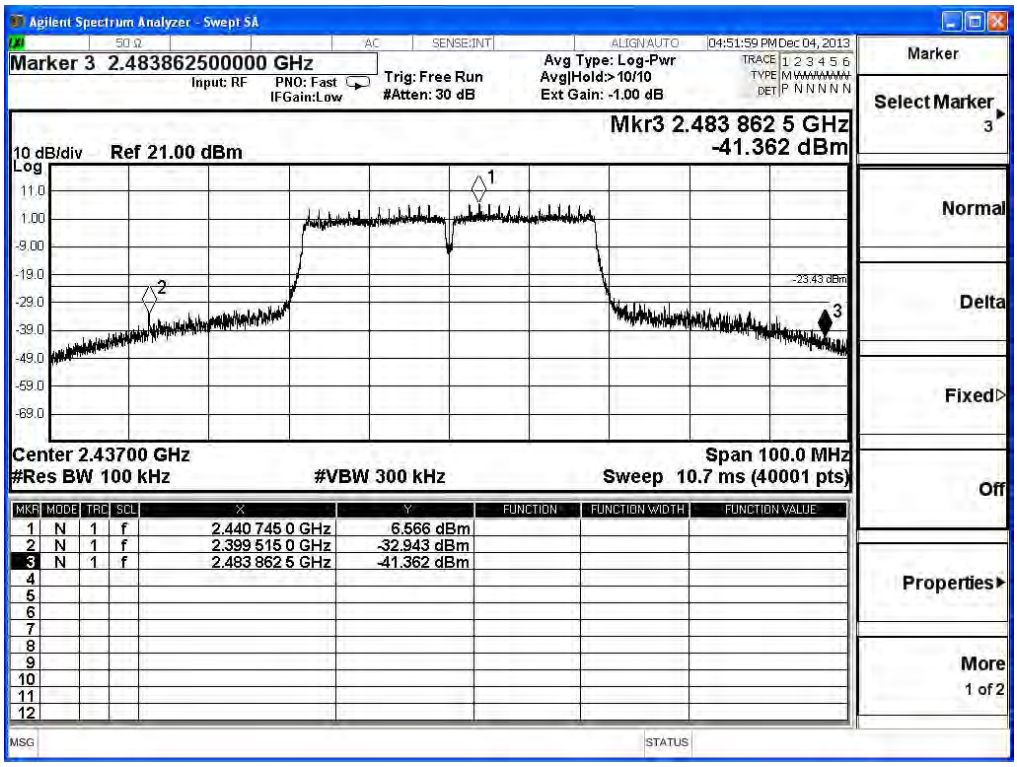
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.62	≧30	Pass
6	2437	39.51	≧30	Pass
9	2452	40.07	≧30	Pass

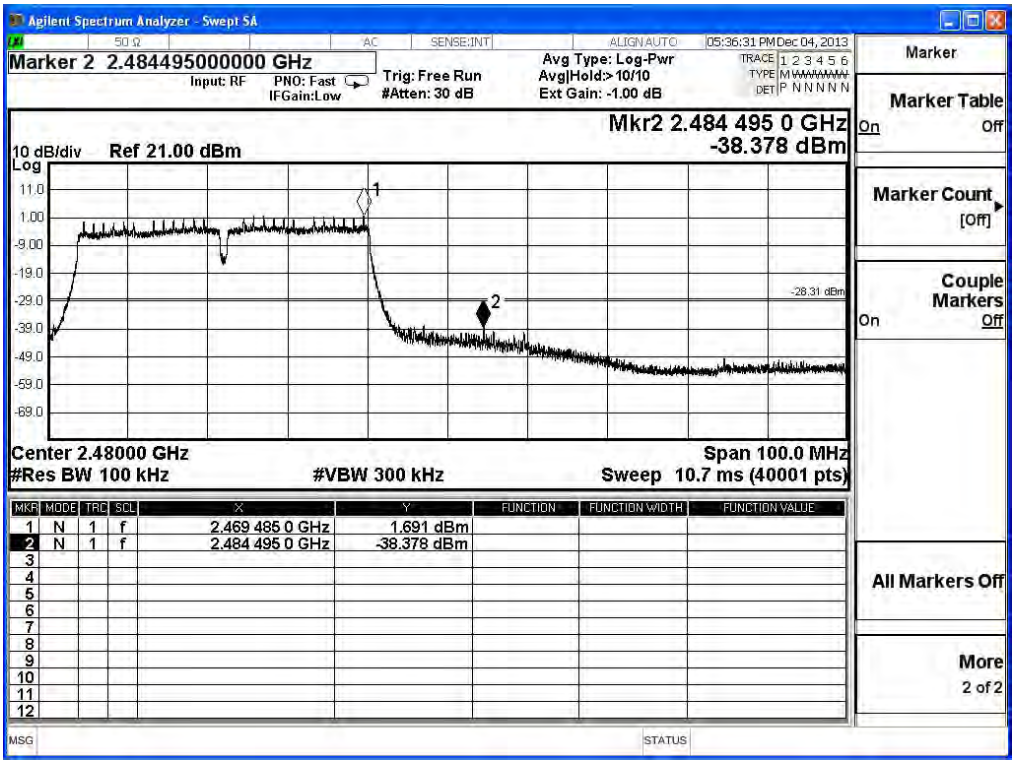
Channel 3 (2422MHz)



Channel 06 (2437MHz)



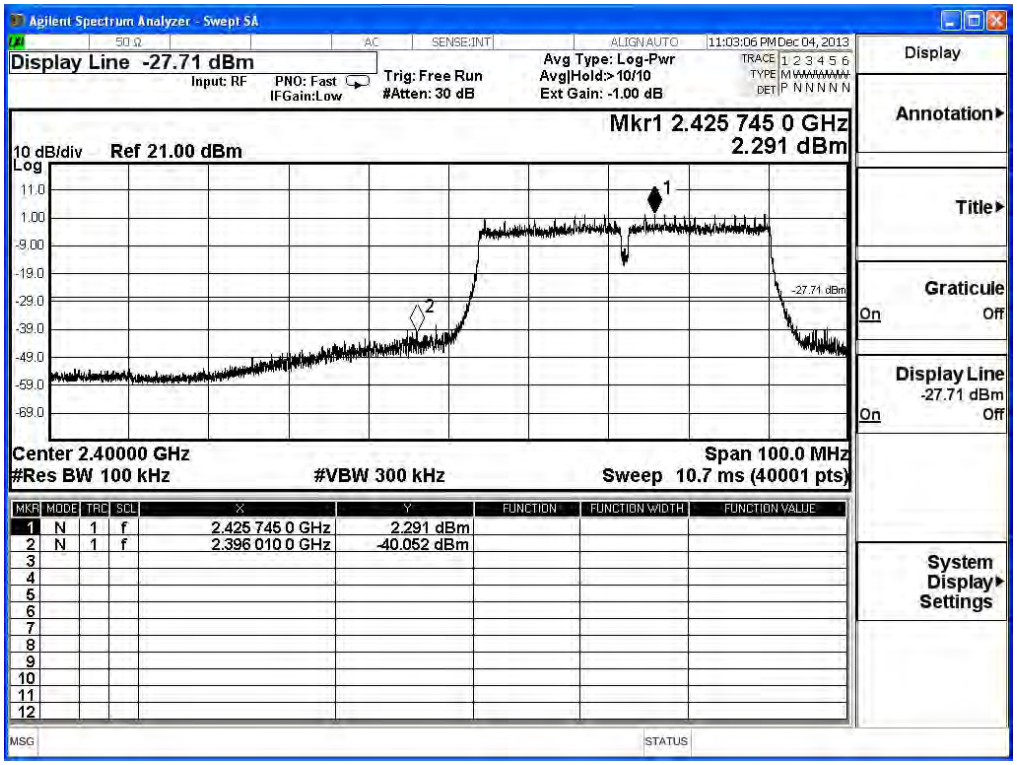
Channel 9 (2452MHz)



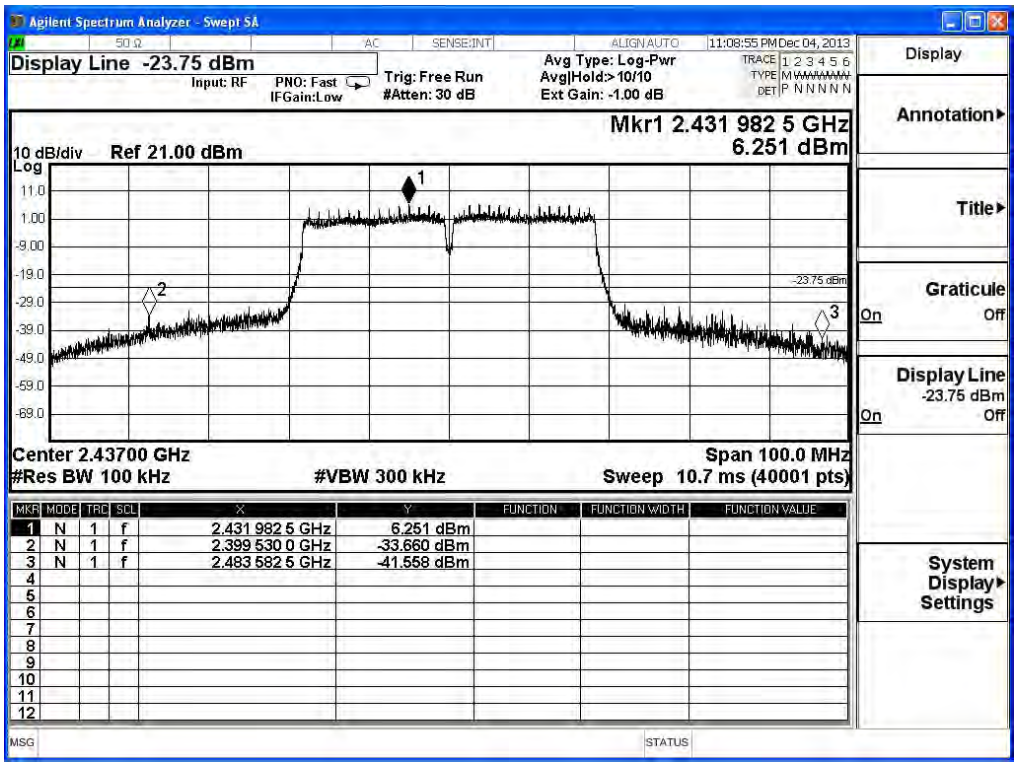
Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1), Antenna Gain: 2dBi ,Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	42.34	≧30	Pass
6	2437	39.91	≧30	Pass
9	2452	45.98	≧30	Pass

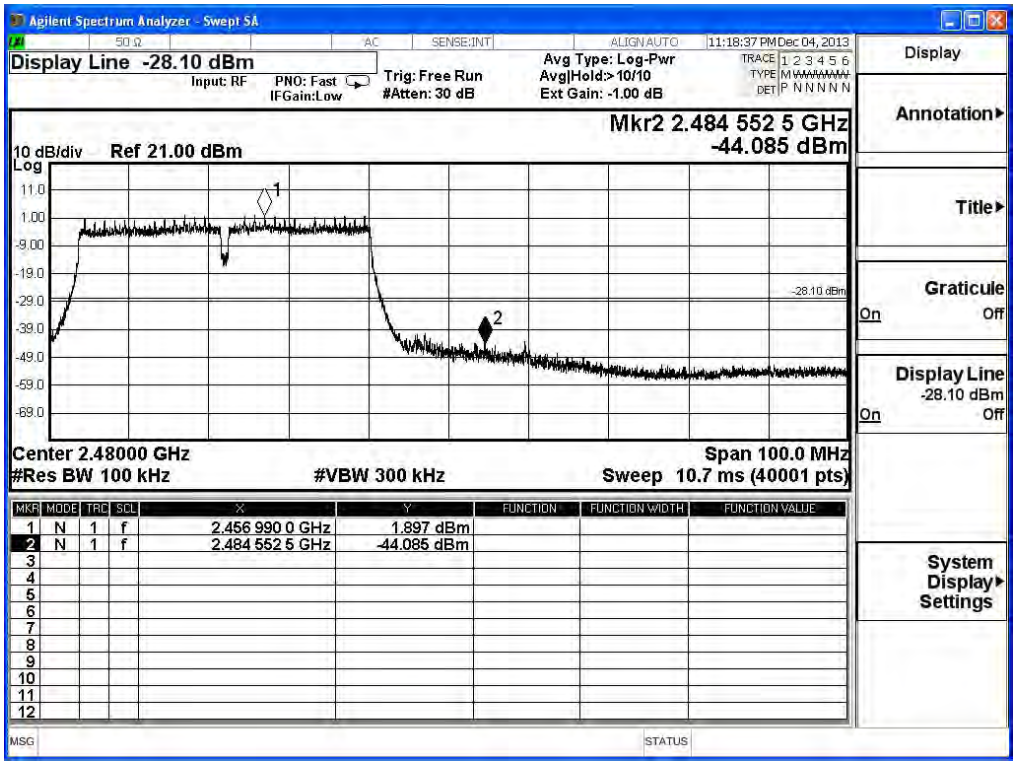
Channel 3 (2422MHz)



Channel 06 (2437MHz)

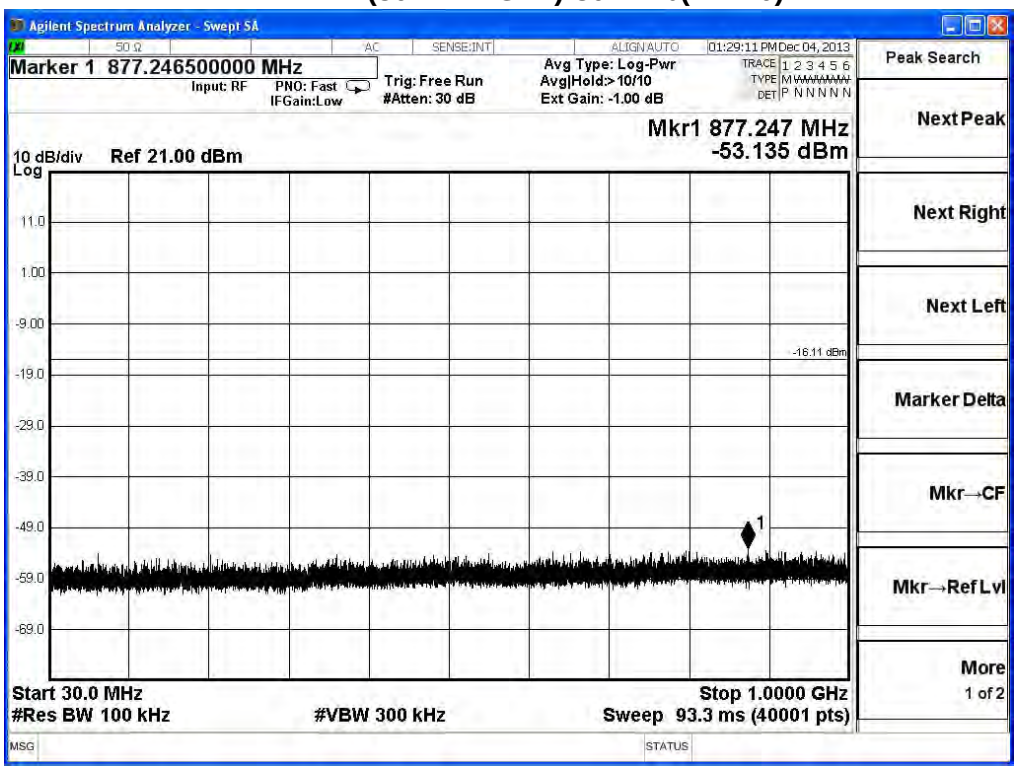


Channel 9 (2452MHz)

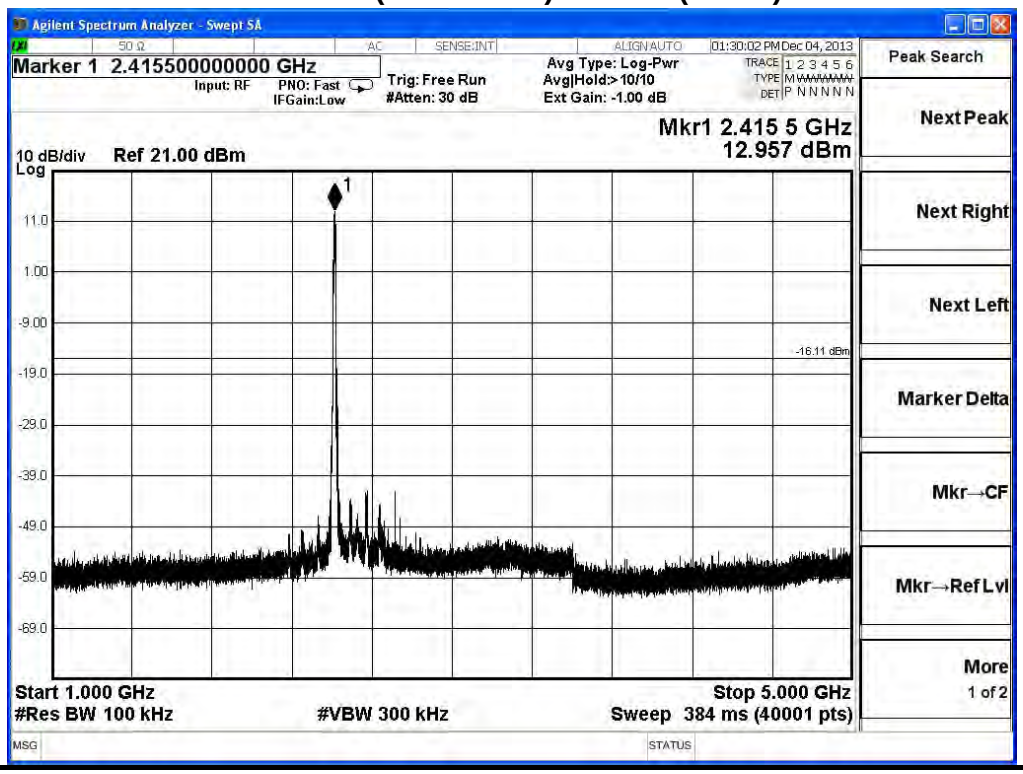


Product	PCE-AC56 Dual-Band Wireless PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/12/14	Test Site	SR7

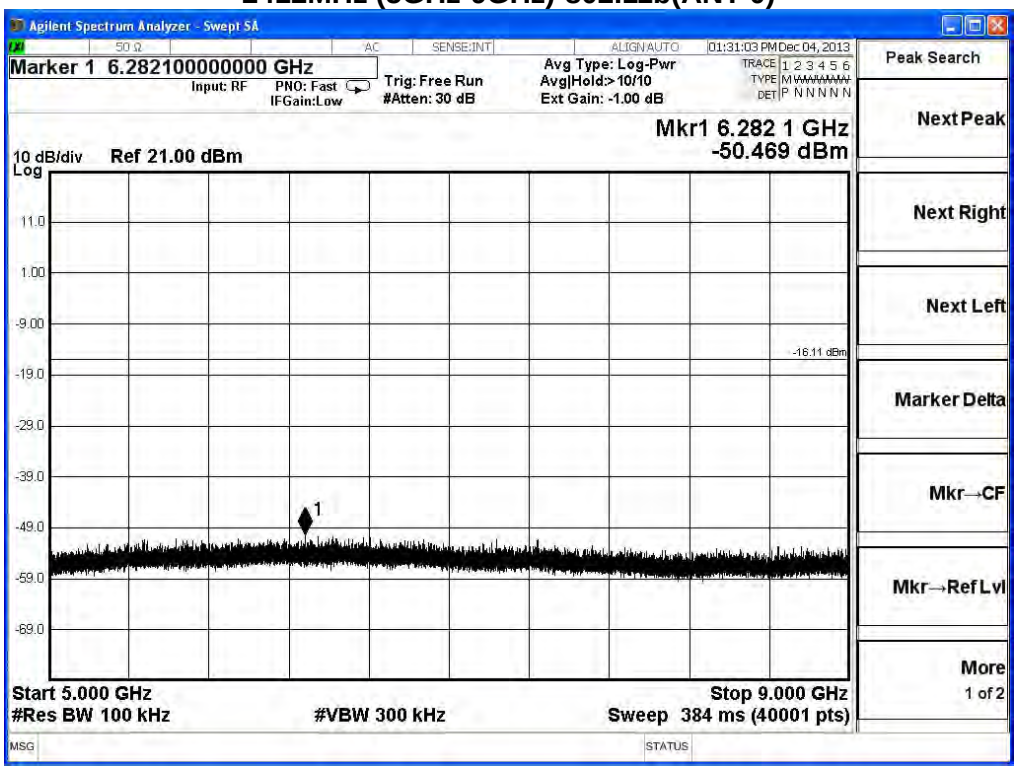
2412MHz (30MHz-1GHz)-802.11b(ANT 0)



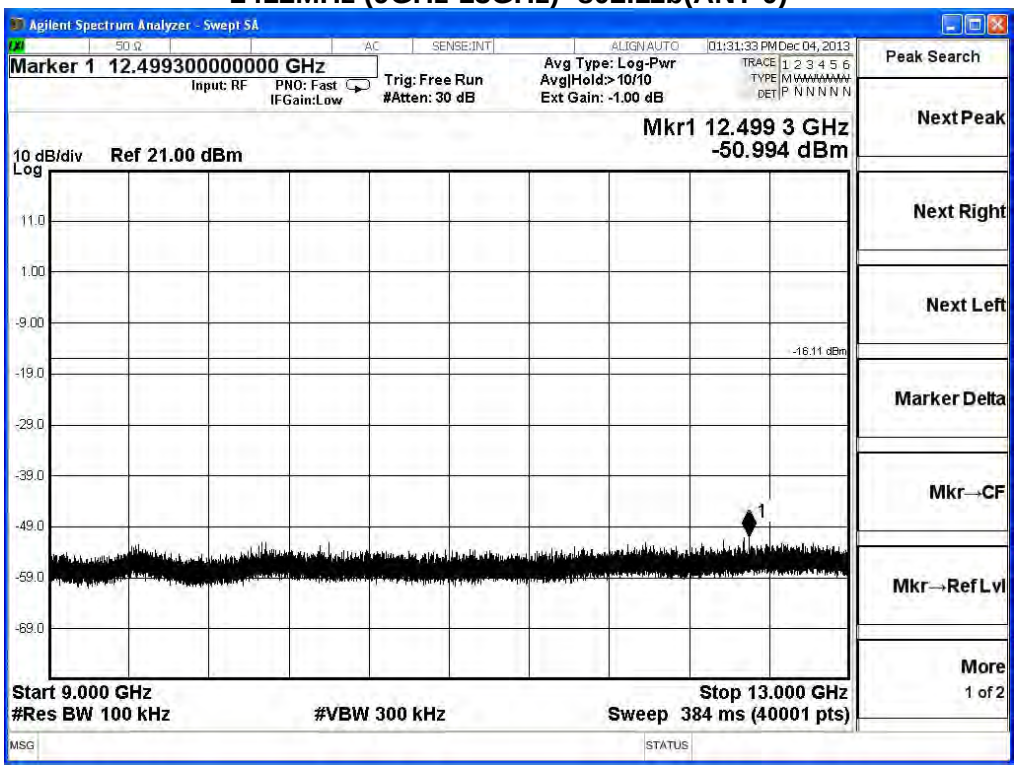
2412MHz (1GHz-5GHz) -802.11b(ANT 0)



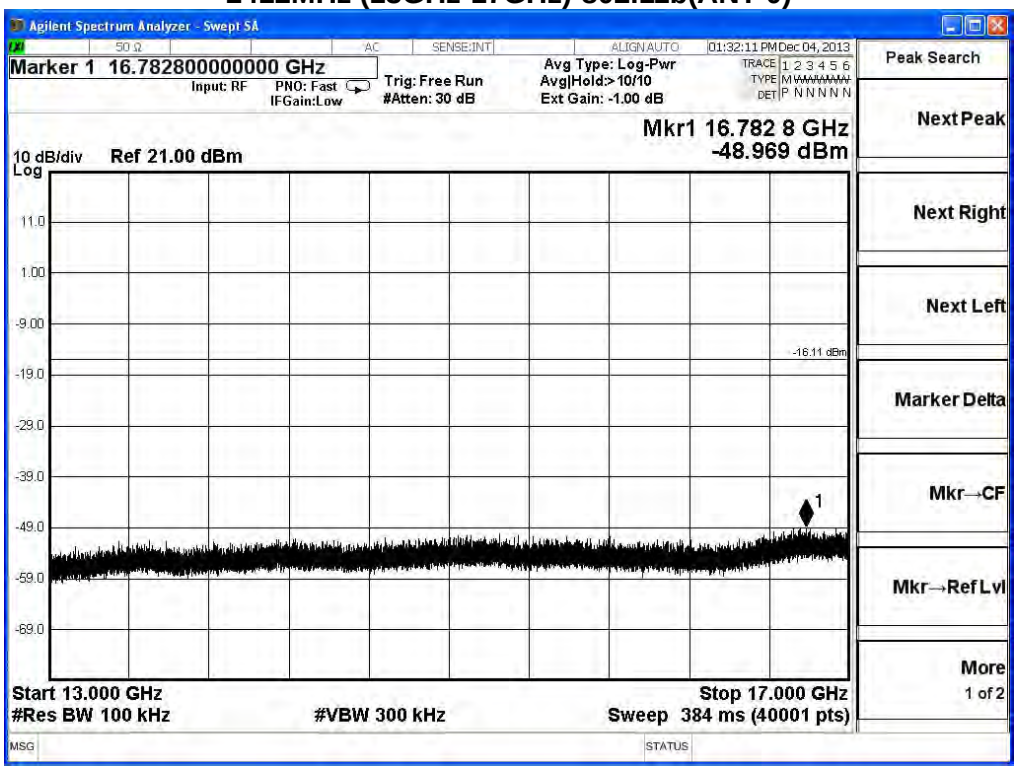
2412MHz (5GHz-9GHz)-802.11b(ANT 0)



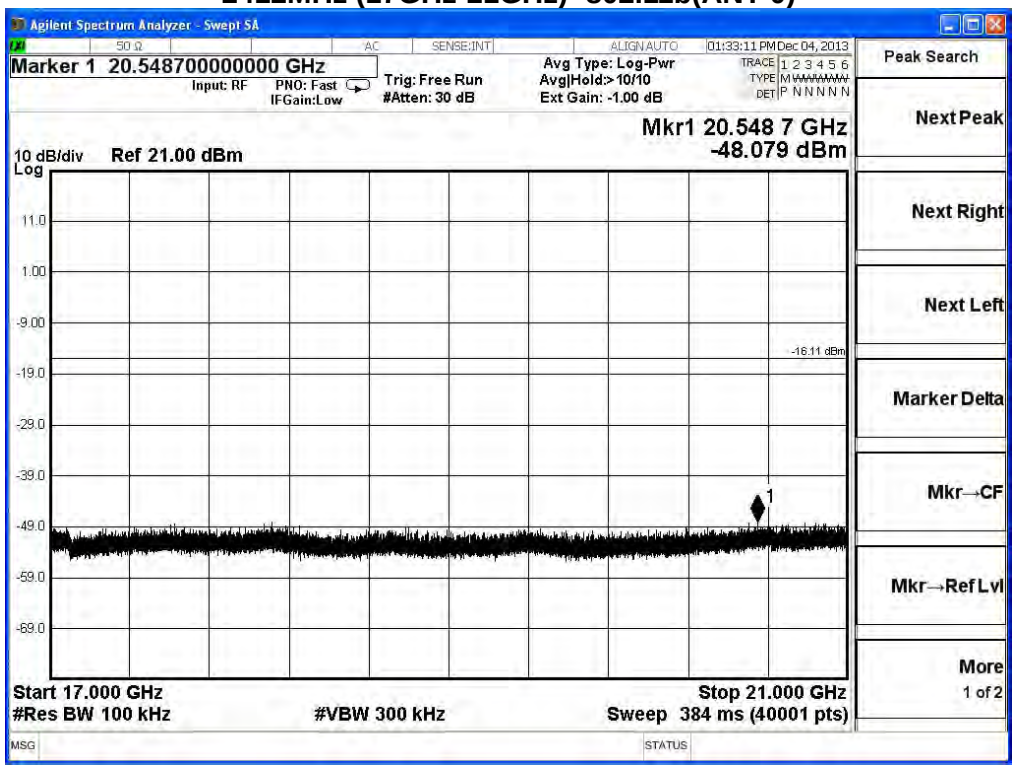
2412MHz (9GHz-13GHz) -802.11b(ANT 0)



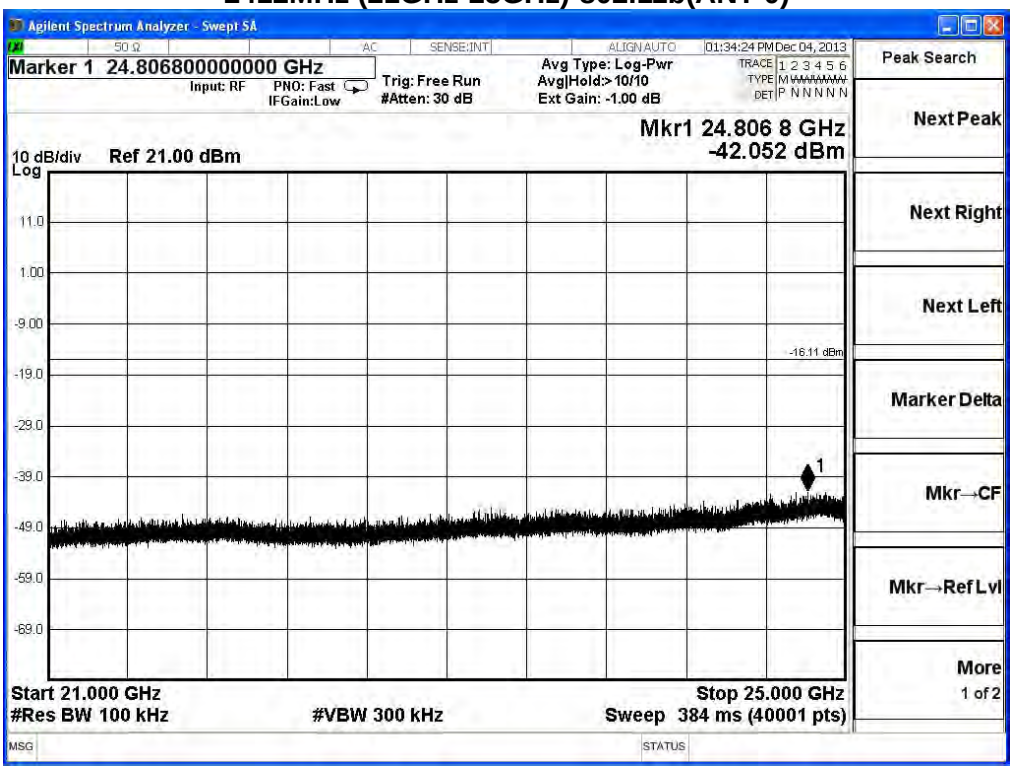
2412MHz (13GHz-17GHz)-802.11b(ANT 0)



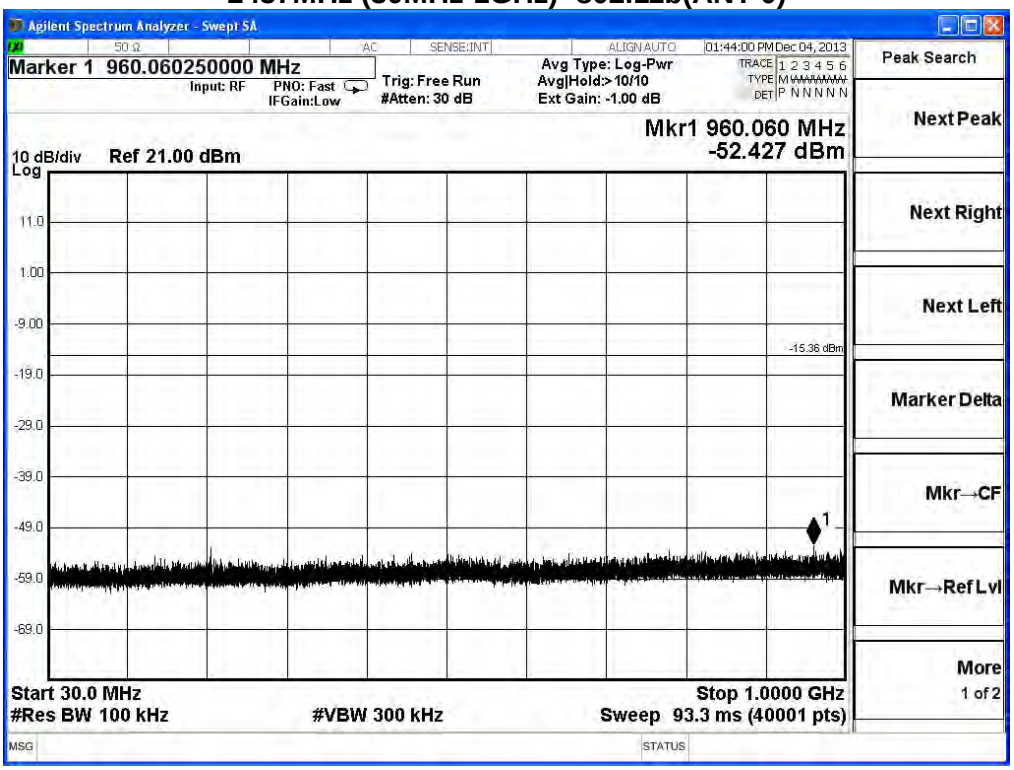
2412MHz (17GHz-21GHz) -802.11b(ANT 0)



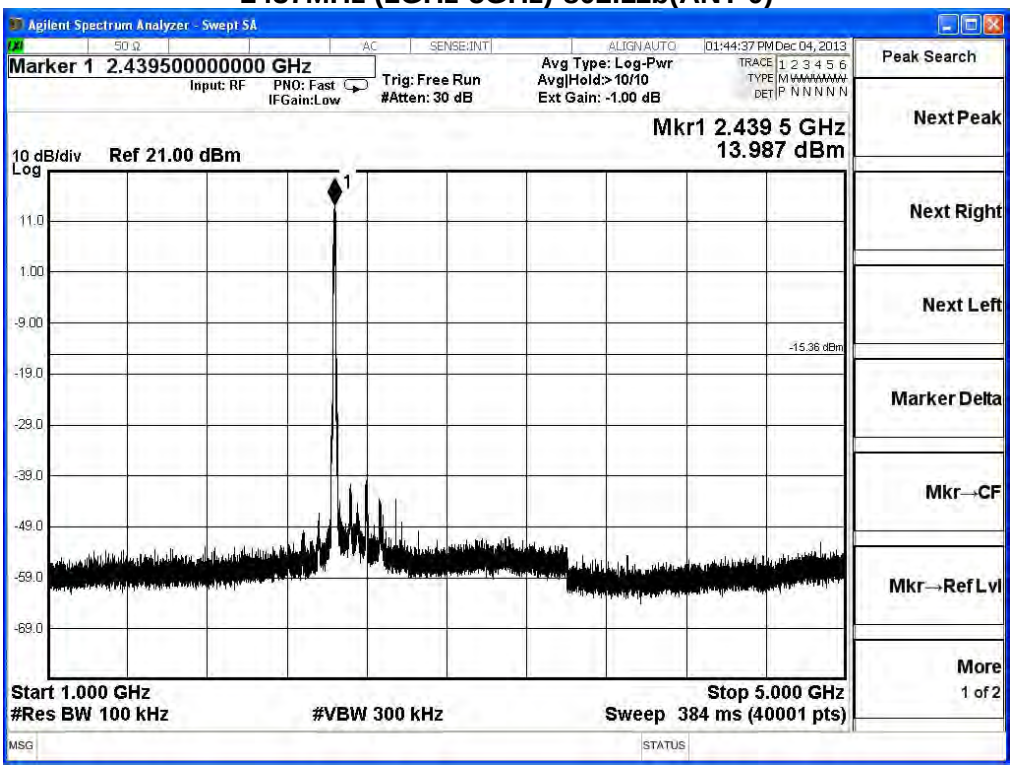
2412MHz (21GHz-25GHz)-802.11b(ANT 0)



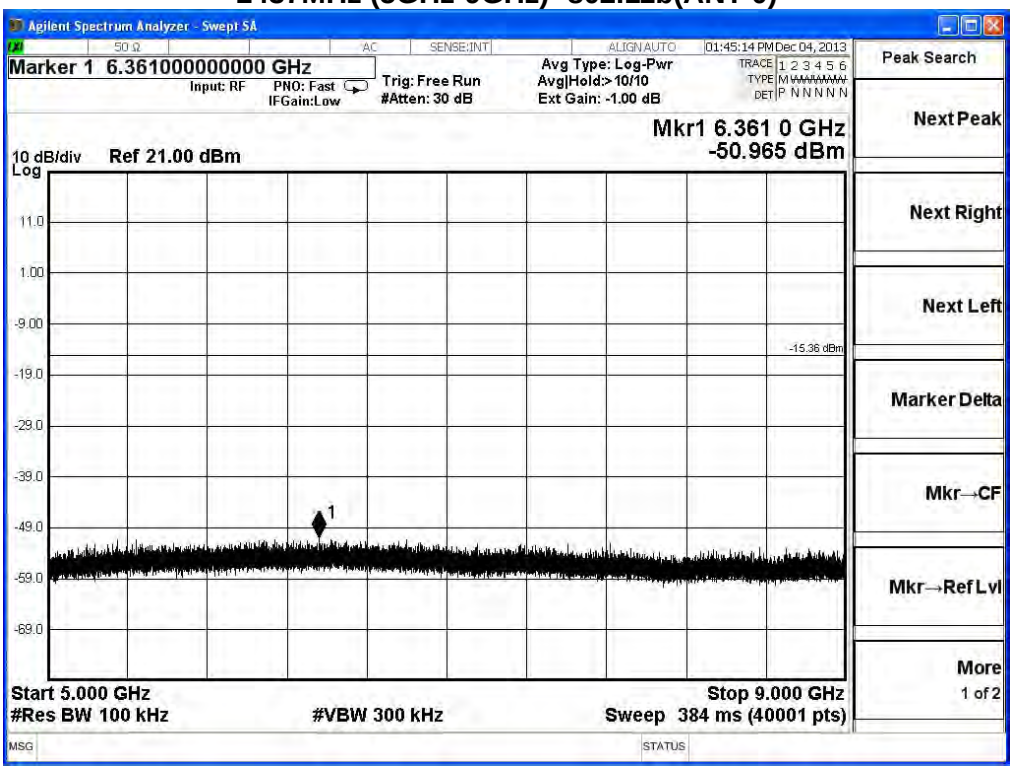
2437MHz (30MHz-1GHz) -802.11b(ANT 0)



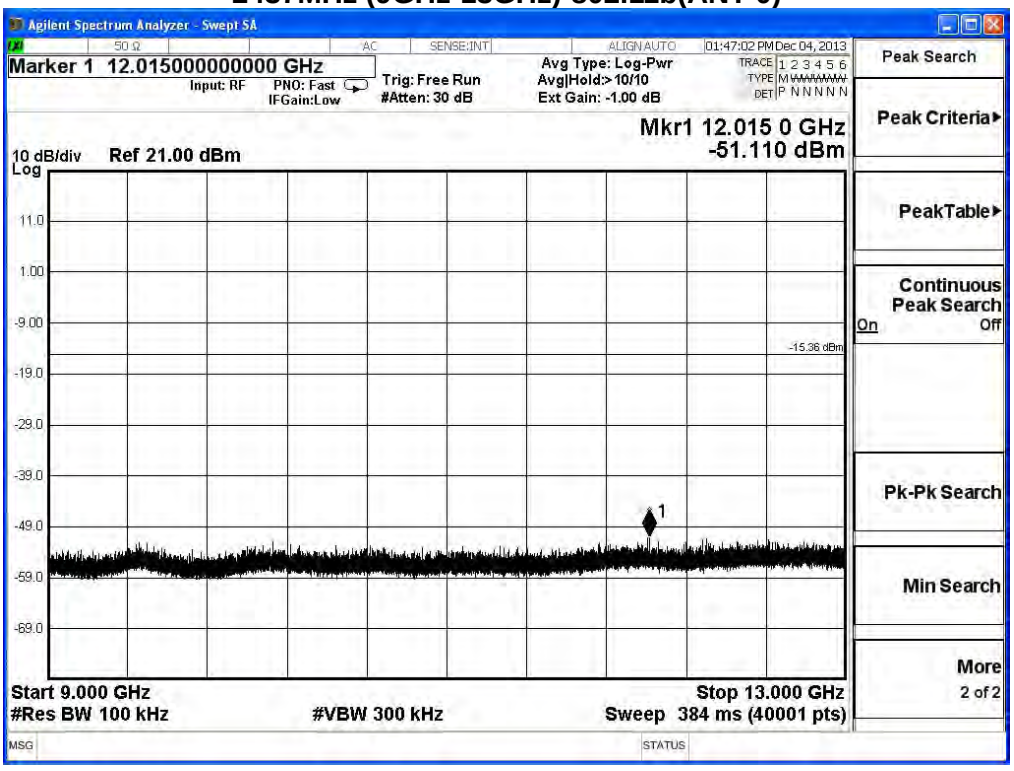
2437MHz (1GHz-5GHz)-802.11b(ANT 0)



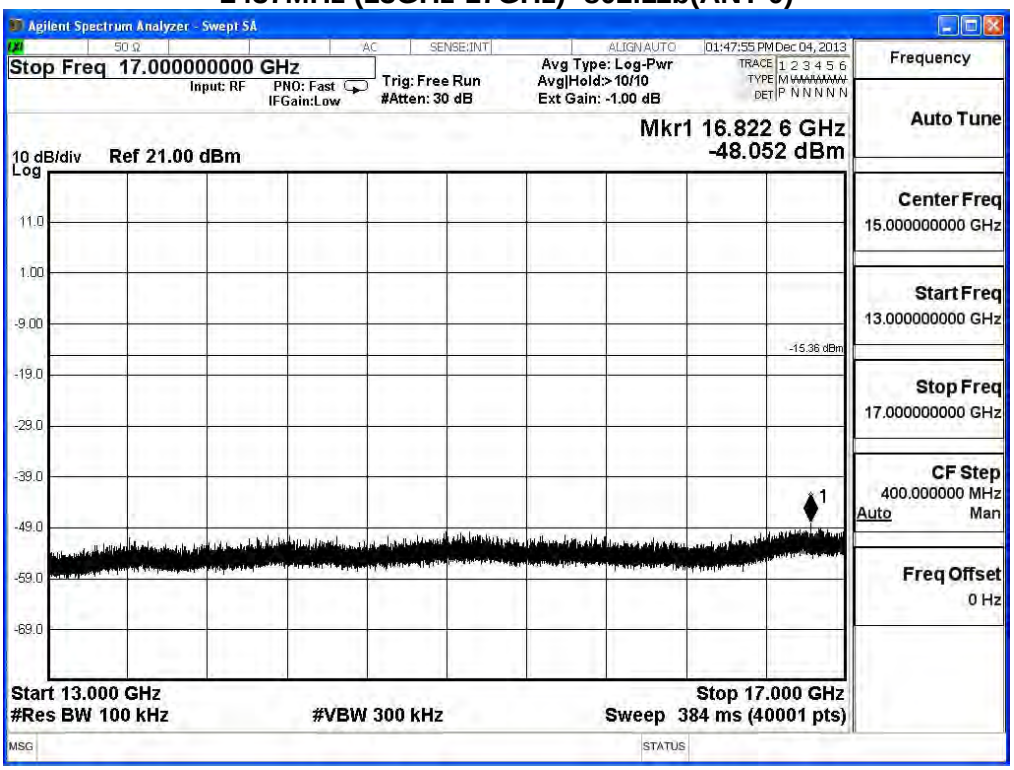
2437MHz (5GHz-9GHz) -802.11b(ANT 0)



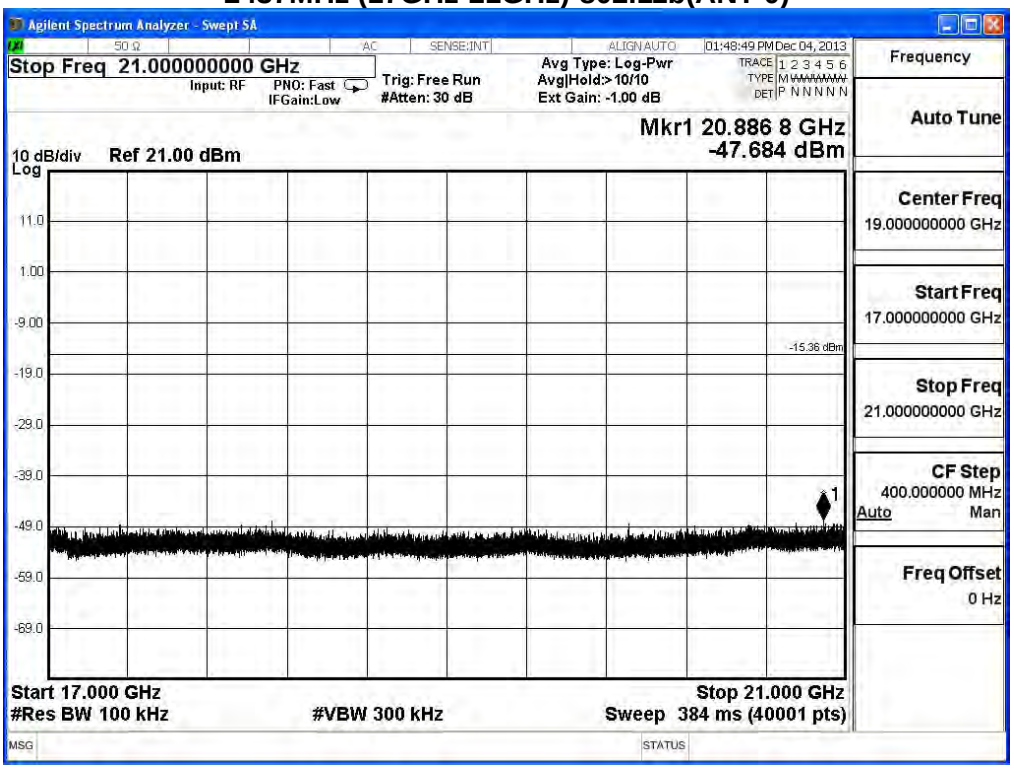
2437MHz (9GHz-13GHz)-802.11b(ANT 0)



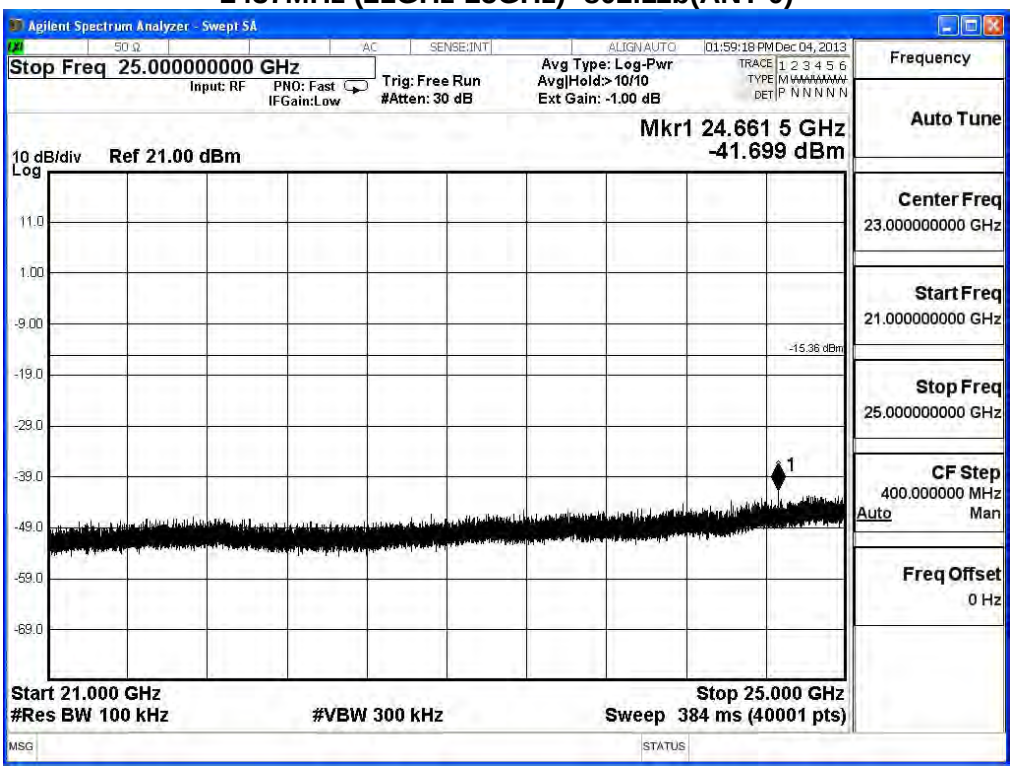
2437MHz (13GHz-17GHz) -802.11b(ANT 0)



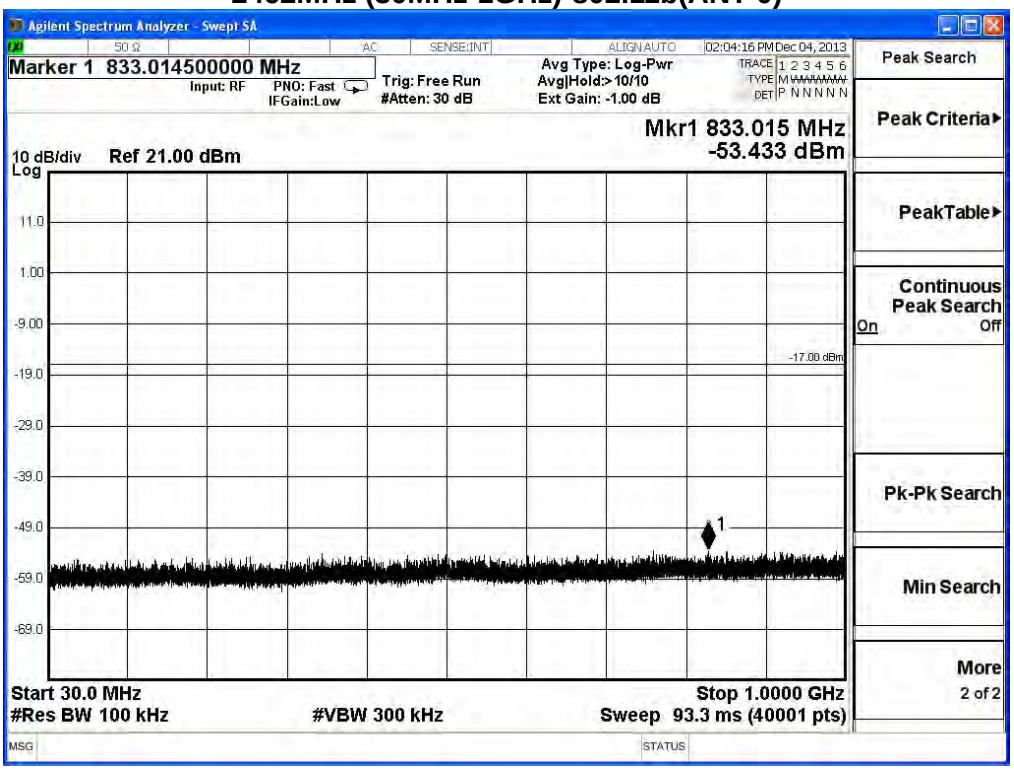
2437MHz (17GHz-21GHz)-802.11b(ANT 0)



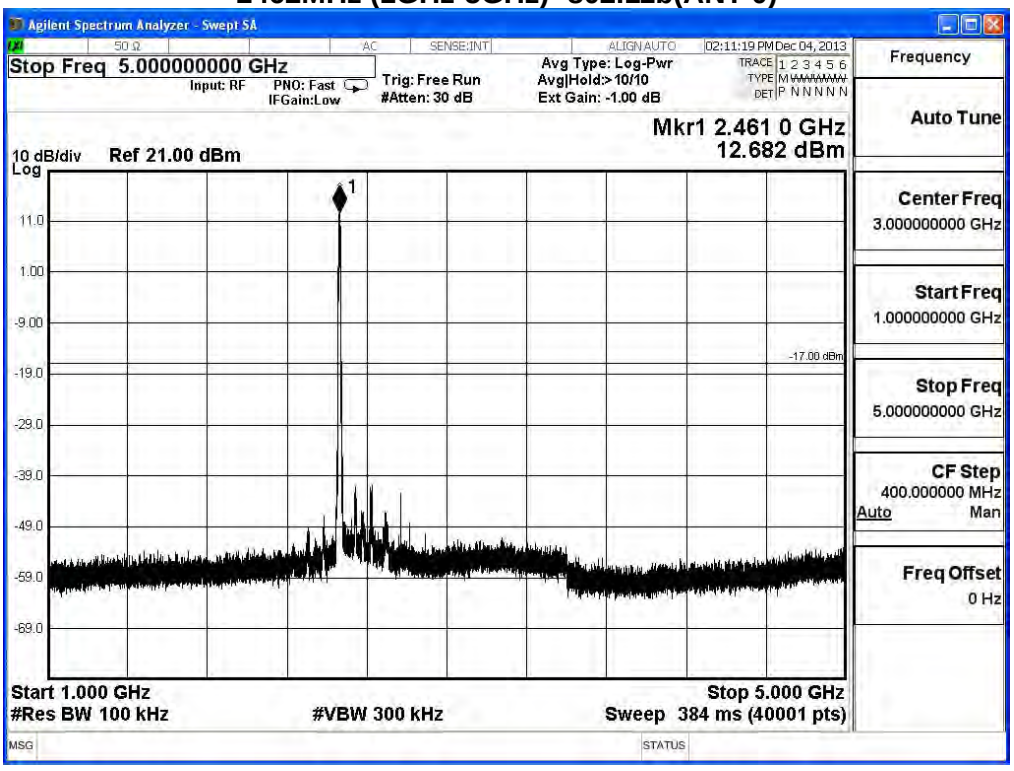
2437MHz (21GHz-25GHz) -802.11b(ANT 0)



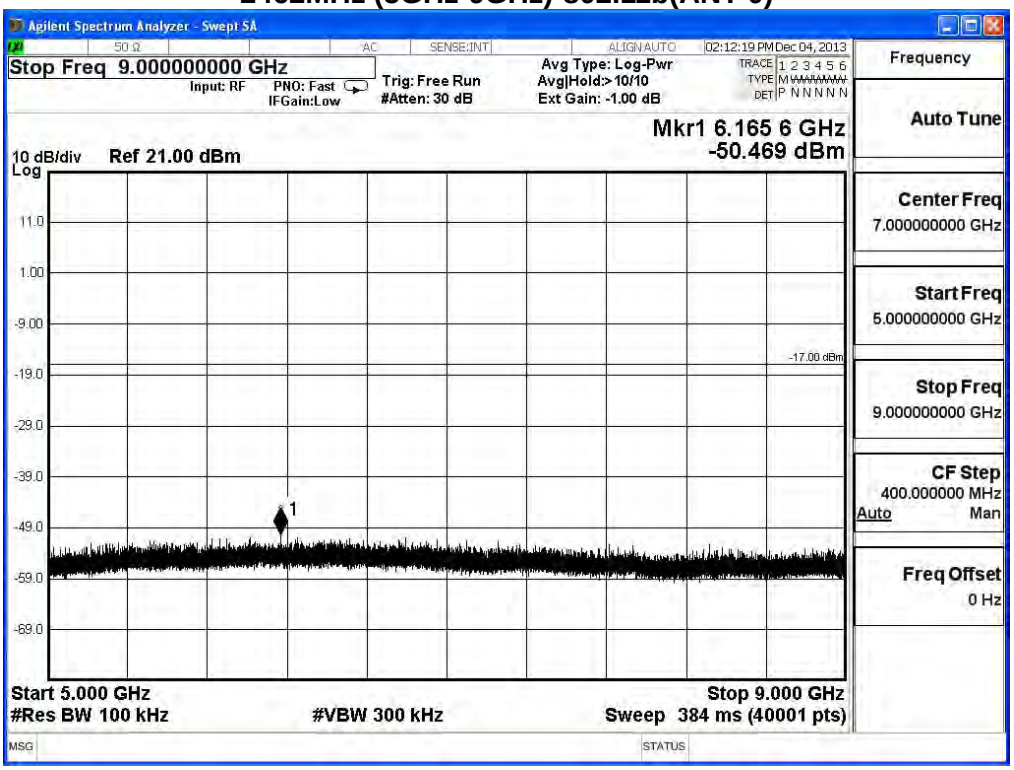
2462MHz (30MHz-1GHz)-802.11b(ANT 0)



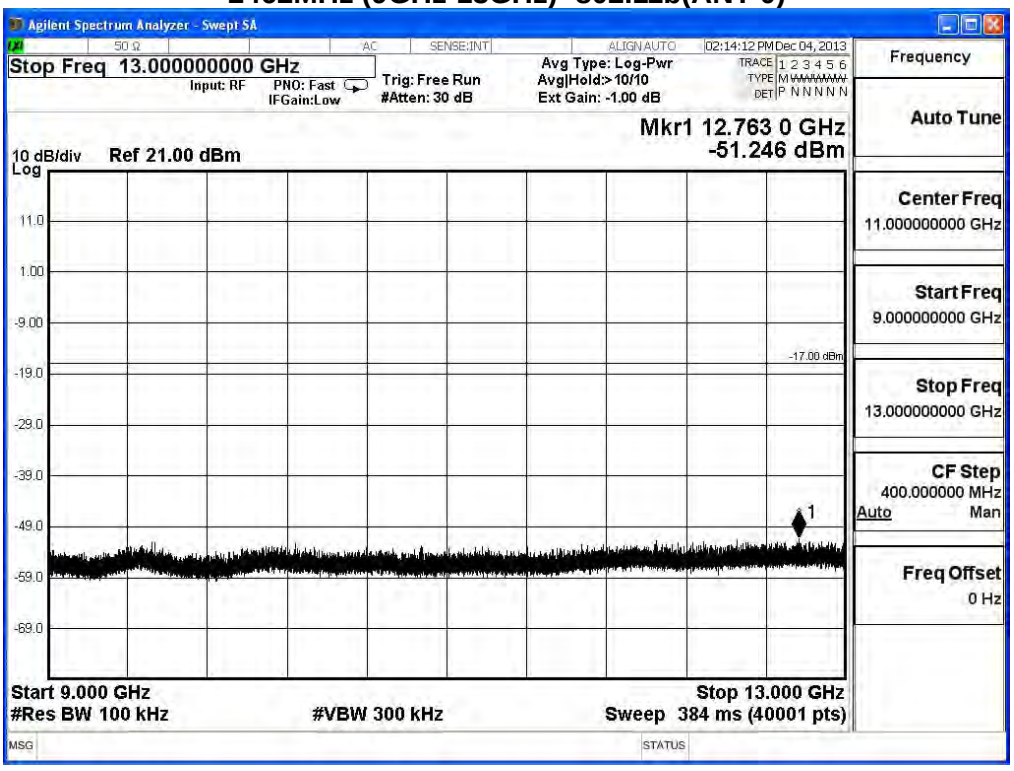
2462MHz (1GHz-5GHz) -802.11b(ANT 0)



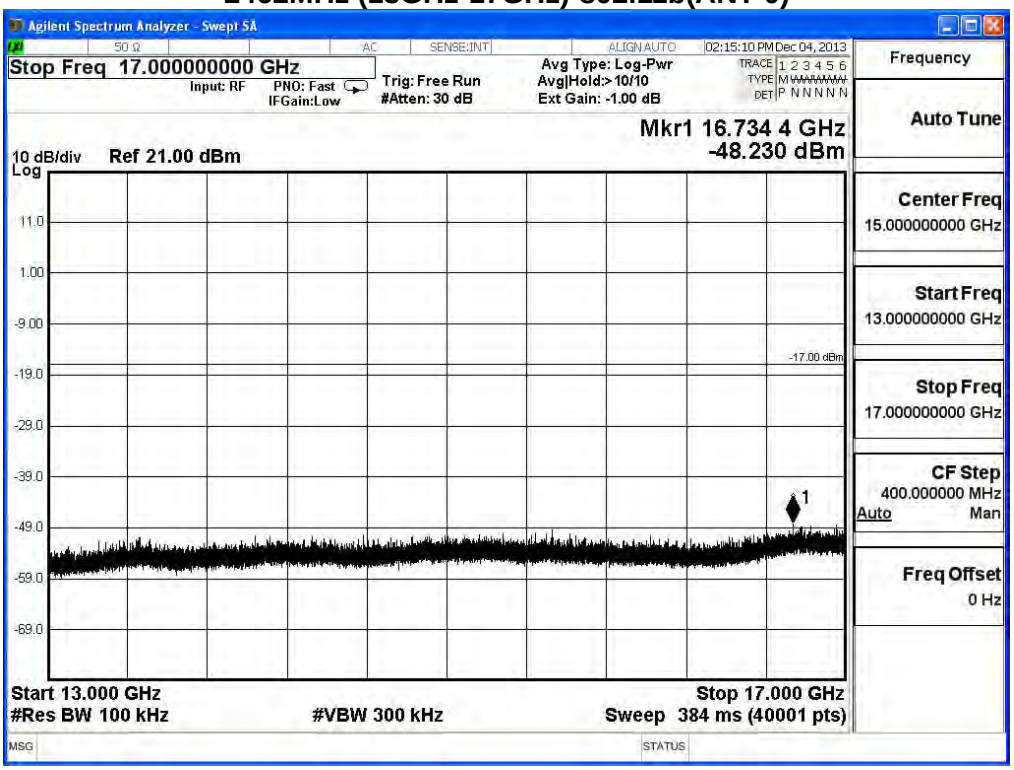
2462MHz (5GHz-9GHz)-802.11b(ANT 0)



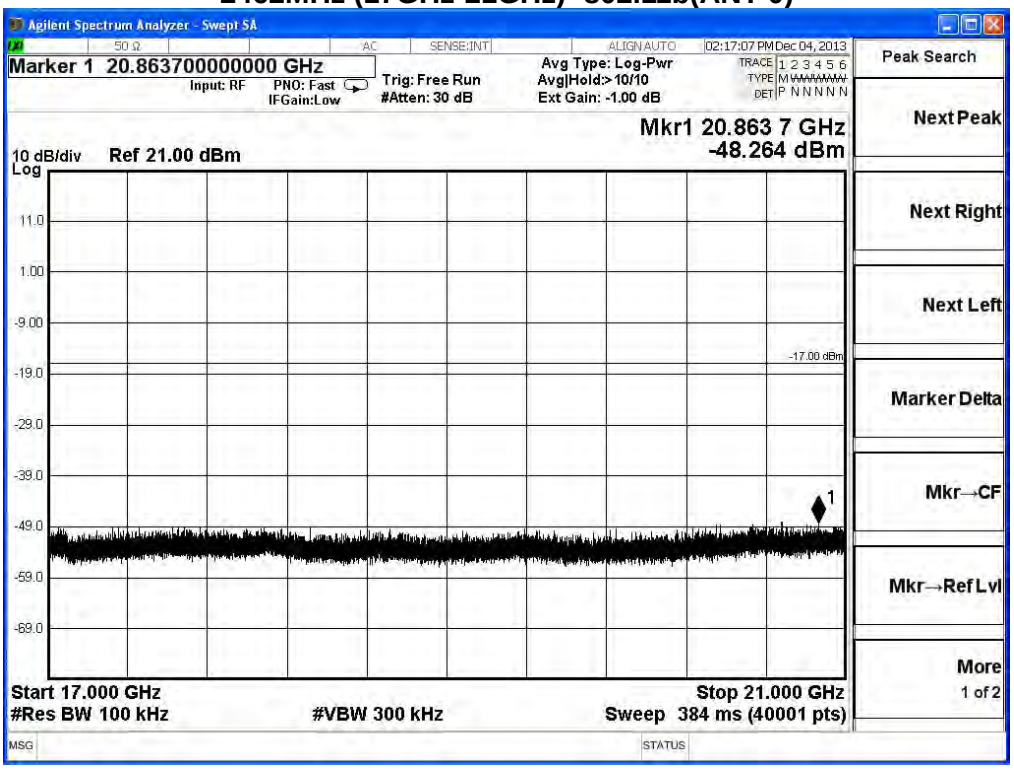
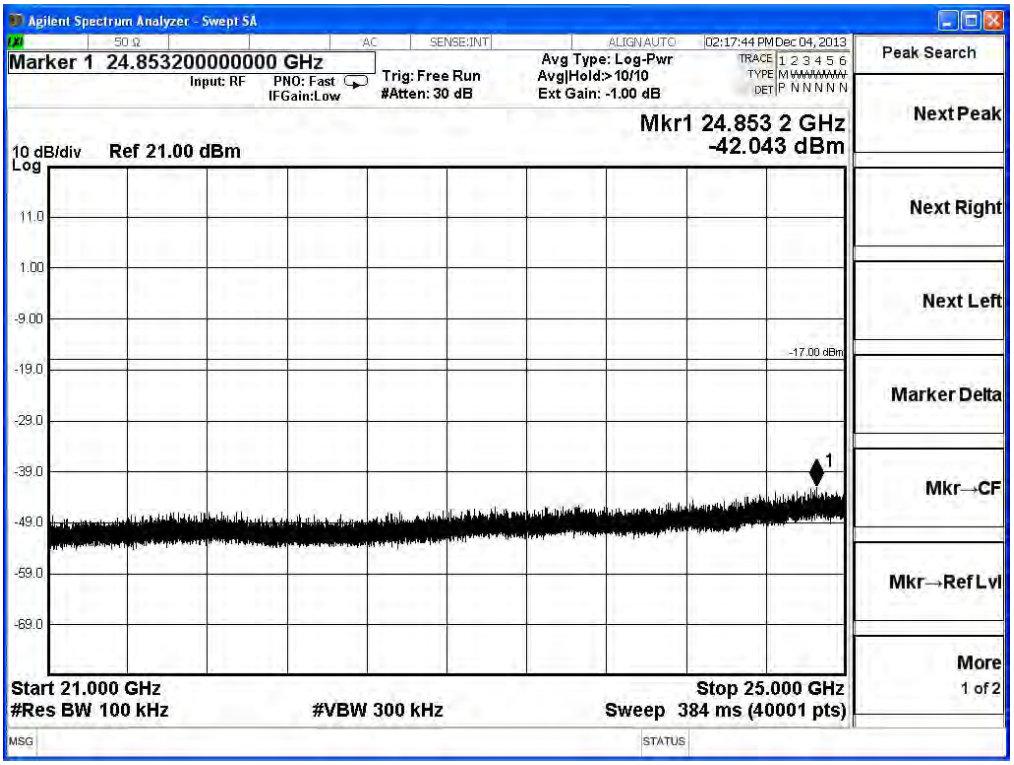
2462MHz (9GHz-13GHz) -802.11b(ANT 0)



2462MHz (13GHz-17GHz)-802.11b(ANT 0)



2462MHz (17GHz-21GHz) -802.11b(ANT 0)



2462MHz (21GHz-25GHz)-802.11b(ANT 0)