FCC Test Report

Product Name ： Dual-Band Wireless-AC PCI-E Adapter

Trade Name ： ASUS

Model No. ： PCE-AC51

FCC ID. ： MSQ-PCEAC1N00

Applicant ： ASUSTeK COMPUTER INC.

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

Date of Receipt ： Aug. 22, 2016

Issued Date ： Sep. 19, 2016

Report No. ： 1680463R-RFUSP27V00

Report Version ： V1.0

Test Report Certification

Issued Date : Sep. 19, 2016
Report No. : 1680463R-RFUSP27V00

Product Name	:	Dual-Band Wireless-AC PCI-E Adapter
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	PCE-AC51
FCC ID.	:	MSQ-PCEAC1N00
EUT Voltage	:	AC 120V/60Hz
Testing Voltage	:	DC 5V (Power by Notebook PC)
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2015 ANSI C63.10: 2013
Test Lab	:	QuieTek Hsin Chu Laboratory
Test Result	:	Complied

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

Documented By : Lyla Yang
(Lyla Yang / Engineering Adm. Assistant)

Tested By : Scott Chang
(Scott Chang / Assistant Engineer)

Approved By : Roy Wang
(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1680463R-RFUSP27V00	V1.0	Initial issue of report	Sep. 19, 2016

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: 3024**
USA	**:**	**FCC, Registration Number: 834100**
Canada	**:**	**IC, Submission No: 181665 / IC Registration Number: 4075C-4**

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/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx
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

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1. General Information

1.1. EUT Description

Product Name	Dual-Band Wireless-AC PCI-E Adapter	
Trade Name	ASUS	
Model No.	PCE-AC51	
Frequency Range/ Channel Number	IEEE 802.11b/g IEEE 802.11n (20MHz)	2412~2462MHz / 11 Channels
	IEEE 802.11n (40MHz)	2422~2452MHz / 7 Channels
Type of Modulation	IEEE 802.11b	Direct Sequence Spread Spectrum
	IEEE 802.11g/n	Orthogonal Frequency Division Multiplexing
Data Speed	IEEE 802.11b	1, 2, 5.5, 11Mbps
	IEEE 802.11g	6, 9, 18, 24, 36, 48,54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n

Antenna Information	
Antenna Type	Dipole
Antenna Gain	2.05 dBi

Accessories Information	
Antenna	2 PCS

ANT-TX / RX & Bandwidth

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

IEEE 802.11n

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								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

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

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

IEEE 802.11n (40MHz)

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

Note:

1. This device is a Dual-Band Wireless-AC PCI-E Adapter including 2.4GHz b/g/n (2x2) and 5GHz a/n/ac (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 5G transmitting is measured and makes a test report of the number: 1680463R-RFUSP45V00.
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 1680463R-RFUSP01V00.

1.2. Test Mode

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

TX	Mode 1: Transmit_SISO Mode Mode 2: Transmit_CDD Mode

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
Peak Power Output	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
Radiated Emission	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies
RF antenna conducted test	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Radiated Emission Band Edge	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
DTS Bandwidth	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Occupied Bandwidth	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0/1	Complies
	11n(40MHz)	3/ 6/ 9	0/1	Complies
Power Density	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11	0+1	Complies
	11n(40MHz)	3/ 6/ 9	0+1	Complies

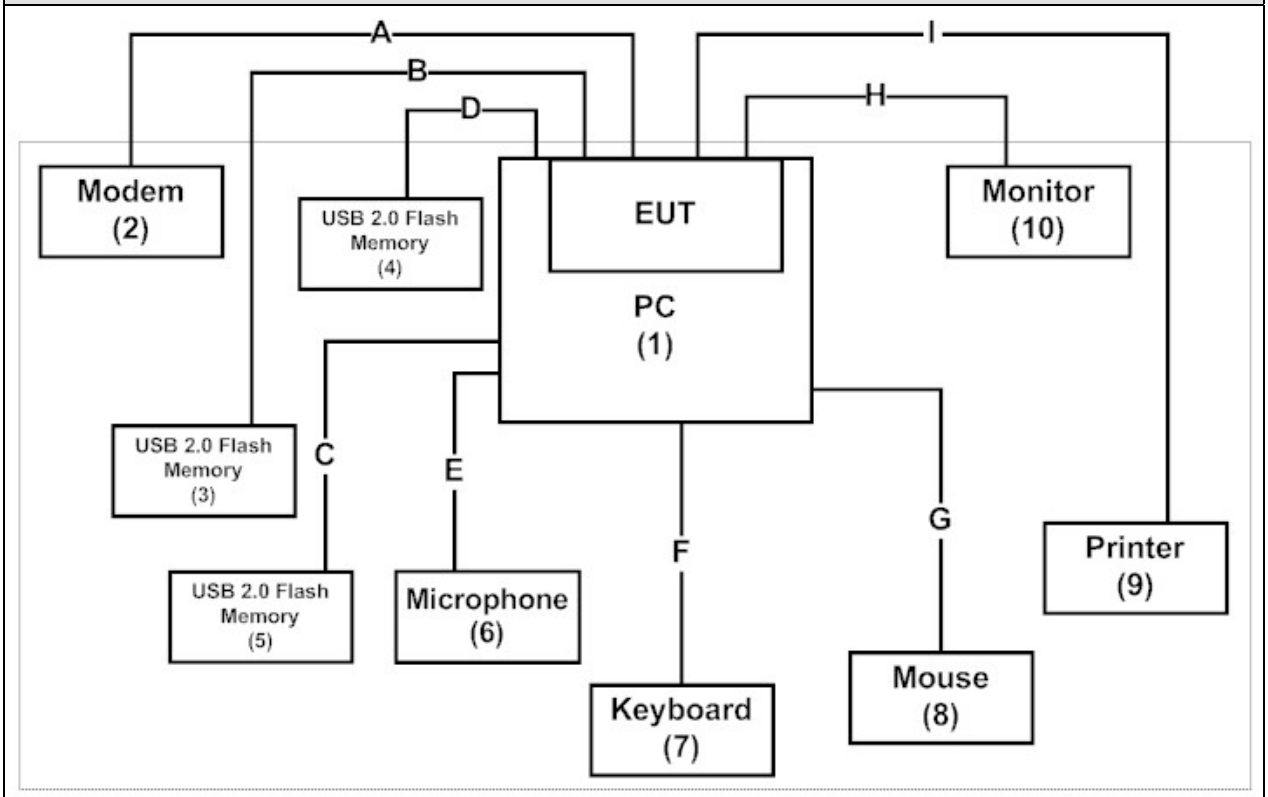
1.3. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	PC	ASUS	P2L97	92M1Y00768	DoC	Non-Shielded, 1.8m
2	Modem	ACEEX	DM-2814	960018054	DoC	Non-Shielded, 1.6m
3	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
4	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
5	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--
6	Microphone	DYNAMIC	DM-35	N/A	DoC	--
7	Keyboard	Logitech	Y-SM46	SY525U18108	DoC	--
8	Mouse	Logitech	M-SBF83	HCA52200174	DoC	--
9	Printer	HP	C2642A	MY75J1D1D2	DoC	Non-Shielded, 0.7m
10	Monitor	CHI MEI	A170E1-09	3UC120955SA 1227	DoC	Non-Shielded, 1.8m

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	Modem Cable	Shielded, 1.8m
B	USB 2.0 Flash Memory Cable	Non-Shielded, 1.5m
C	USB 2.0 Flash Memory Cable	Non-Shielded, 1.5m
D	USB 2.0 Flash Memory Cable	Non-Shielded, 1.5m
E	Microphone & Earphone Cable	Non-Shielded, 1m
F	Keyboard Cable	Shielded, 1.8m
G	Mouse Cable	Shielded, 1.8m
H	VGA Cable	Shielded, 1.6m
I	Printer Cable	Shielded, 1.2m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute “Realtek 8812A chip, 0.0057.25 version” 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.

1.6. 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°C
Humidity (%RH)		25 - 75	50%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25°C
Humidity (%RH)		25 - 75	65%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25°C
Humidity (%RH)		25 - 75	48%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 DTS Bandwidth	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

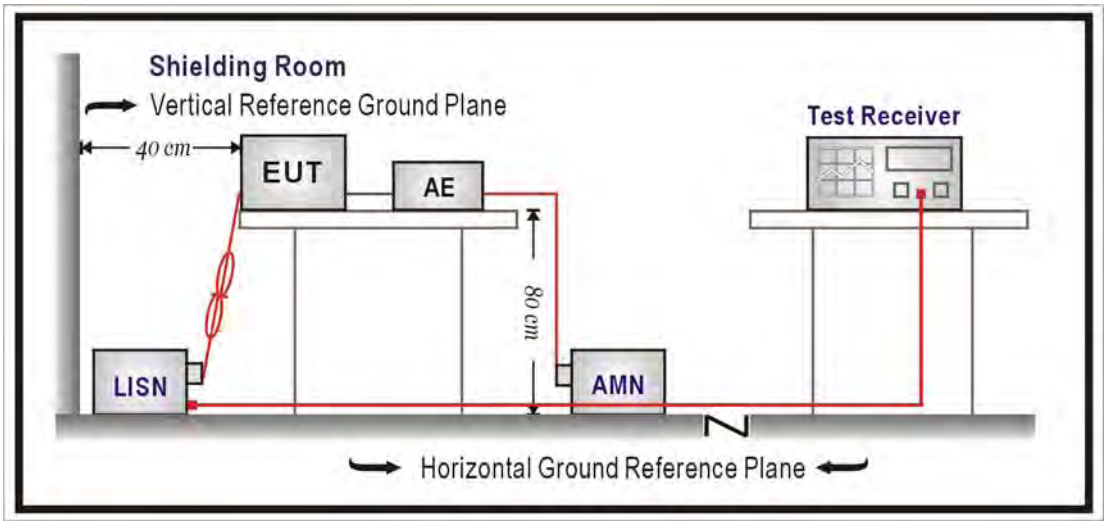
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2017/07/11
LISN	R&S	ESH3-Z5	836679/022	2016/11/30
Test Receiver	R&S	ESCS 30	825442/017	2017/01/04

Note: 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

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

2.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of 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

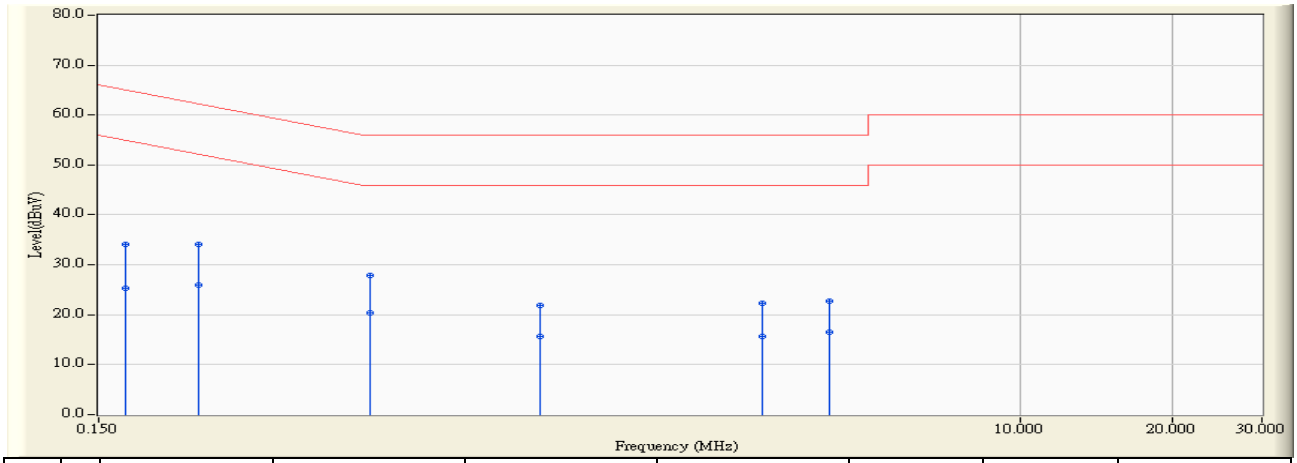
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	**Time : 2016/08/26 - 15:26**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-6_0712 - Line1	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**

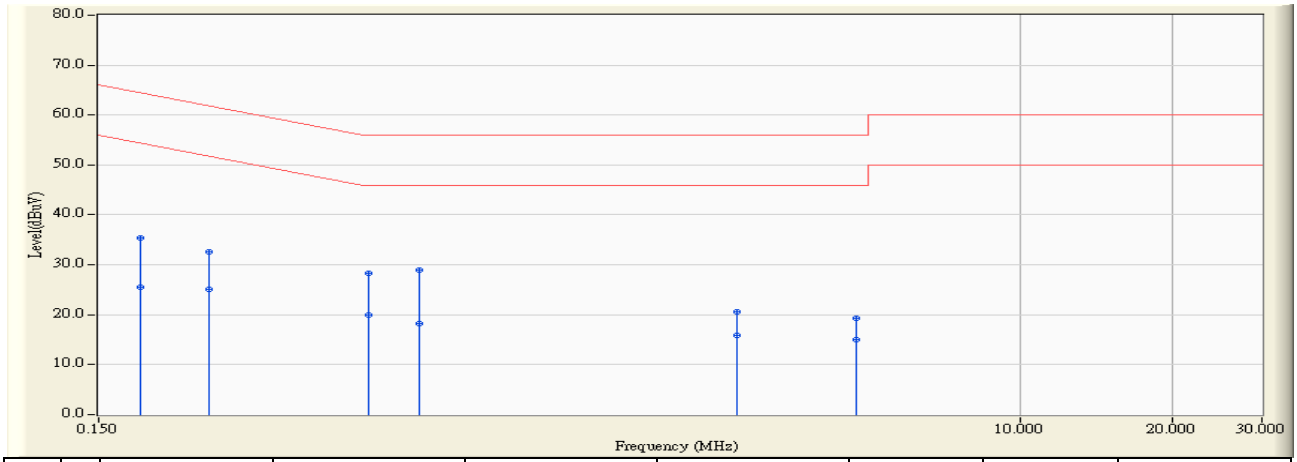


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.170	9.756	24.430	34.186	-30.798	64.983	QUASIPEAK
2		0.170	9.756	15.460	25.216	-29.768	54.983	AVERAGE
3		0.236	9.758	24.440	34.198	-28.040	62.238	QUASIPEAK
4		0.236	9.758	16.150	25.908	-26.330	52.238	AVERAGE
5		0.517	9.778	18.070	27.848	-28.152	56.000	QUASIPEAK
6	*	0.517	9.778	10.680	20.458	-25.542	46.000	AVERAGE
7		1.119	9.777	12.120	21.897	-34.103	56.000	QUASIPEAK
8		1.119	9.777	5.950	15.727	-30.273	46.000	AVERAGE
9		3.072	9.891	12.350	22.241	-33.759	56.000	QUASIPEAK
10		3.072	9.891	5.660	15.551	-30.449	46.000	AVERAGE
11		4.181	9.948	12.890	22.838	-33.162	56.000	QUASIPEAK
12		4.181	9.948	6.470	16.418	-29.582	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 : 2016/08/26 - 15:28**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-6_0712 - Line2	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.756	25.620	35.376	-29.052	64.428	QUASIPEAK
2		0.181	9.756	15.710	25.466	-28.962	54.428	AVERAGE
3		0.248	9.764	22.770	32.534	-29.302	61.835	QUASIPEAK
4		0.248	9.764	15.400	25.164	-26.672	51.835	AVERAGE
5		0.513	9.794	18.440	28.234	-27.766	56.000	QUASIPEAK
6	*	0.513	9.794	10.140	19.934	-26.066	46.000	AVERAGE
7		0.646	9.788	19.210	28.998	-27.002	56.000	QUASIPEAK
8		0.646	9.788	8.520	18.308	-27.692	46.000	AVERAGE
9		2.740	9.836	10.690	20.526	-35.474	56.000	QUASIPEAK
10		2.740	9.836	6.120	15.956	-30.044	46.000	AVERAGE
11		4.716	9.895	9.510	19.406	-36.594	56.000	QUASIPEAK
12		4.716	9.895	5.060	14.956	-31.044	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

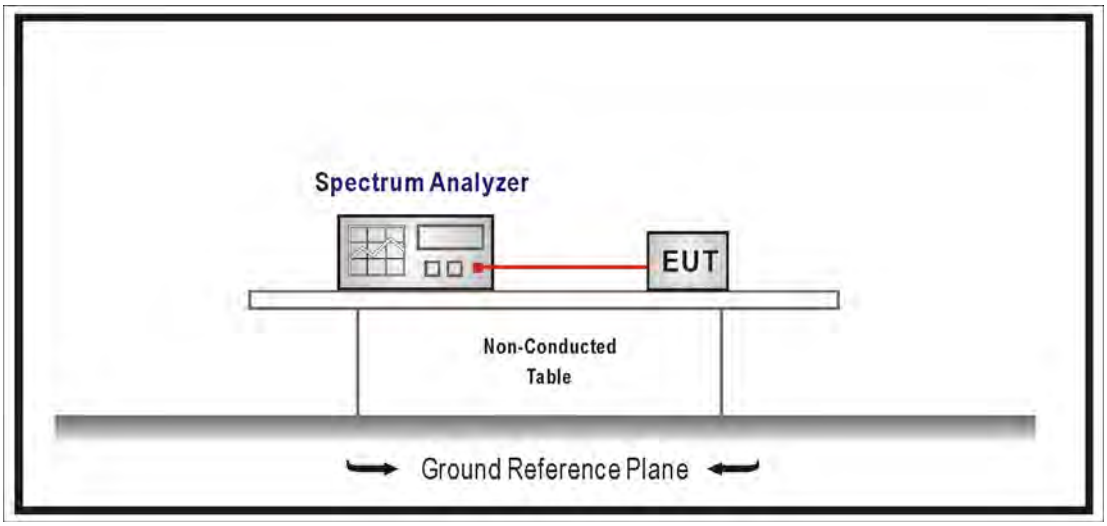
The following test equipments are used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2017/07/11
LISN	R&S	ESH3-Z5	836679/022	2016/11/30
Test Receiver	R&S	ESCS 30	825442/017	2017/01/04

Note: 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 9.1.2 of KDB558074 v03r05 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/08/25	Test Site	SR7

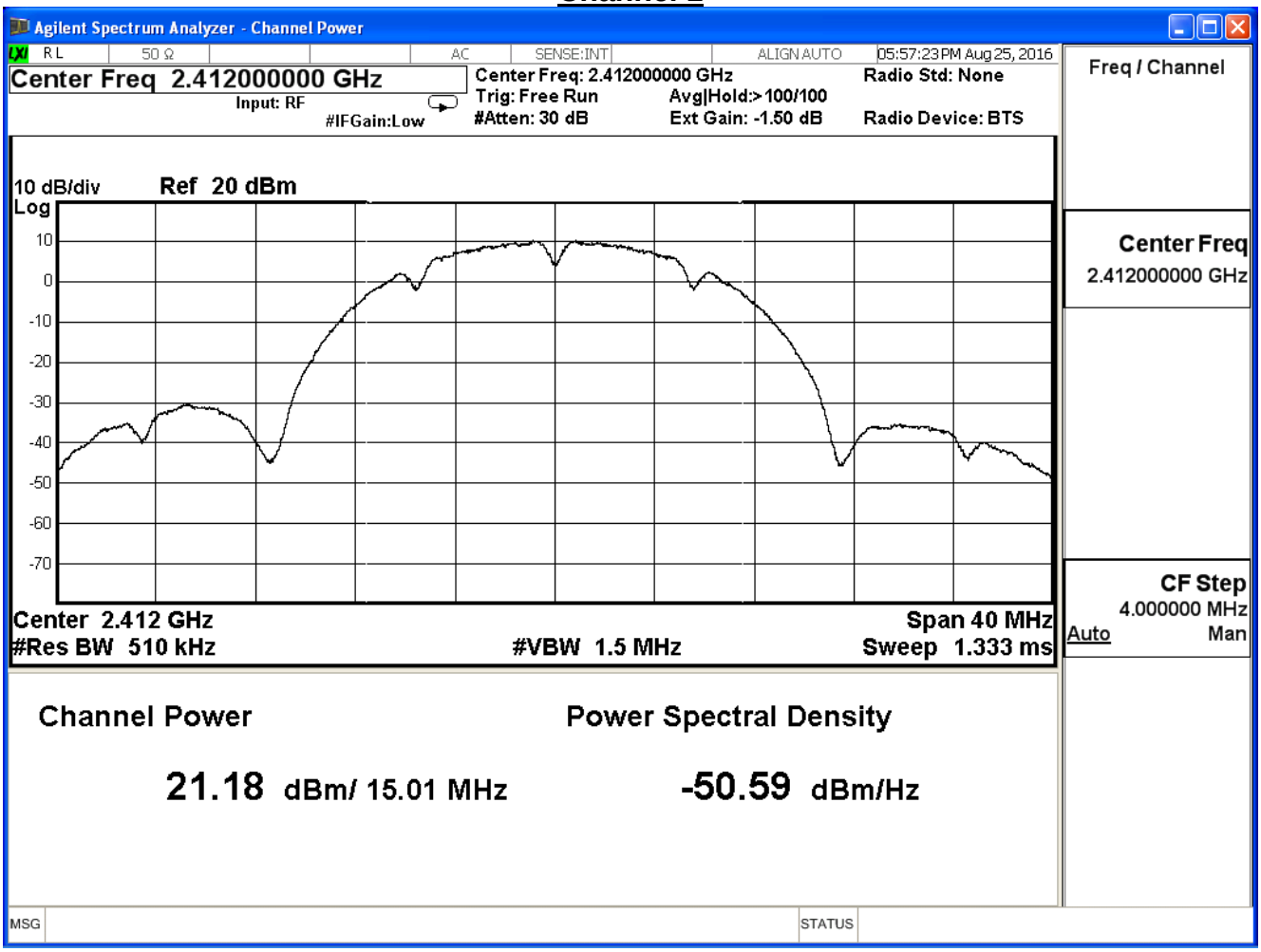
IEEE 802.11b (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	21.18	≦30
6	2437	22.47	≦30
11	2462	19.57	≦30

The worst emission of data rate is 1 Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	21.18	--	--	--	≦30dB
6	2437	22.47	22.41	22.21	21.89	
11	2462	19.57	--	--	--	

Channel 1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Trig: Free Run
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Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
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Log
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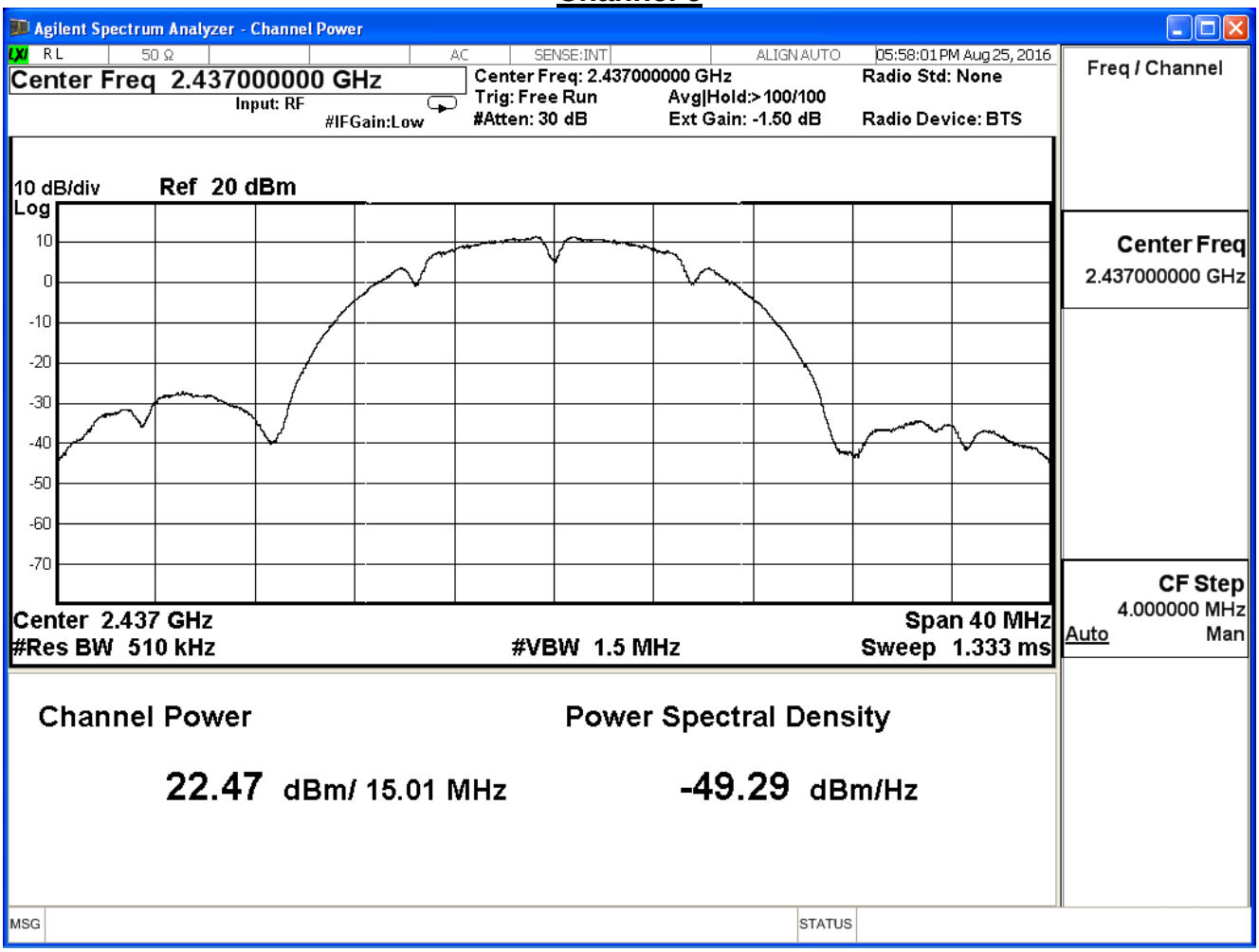
STATUS

Channel 6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Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
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Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
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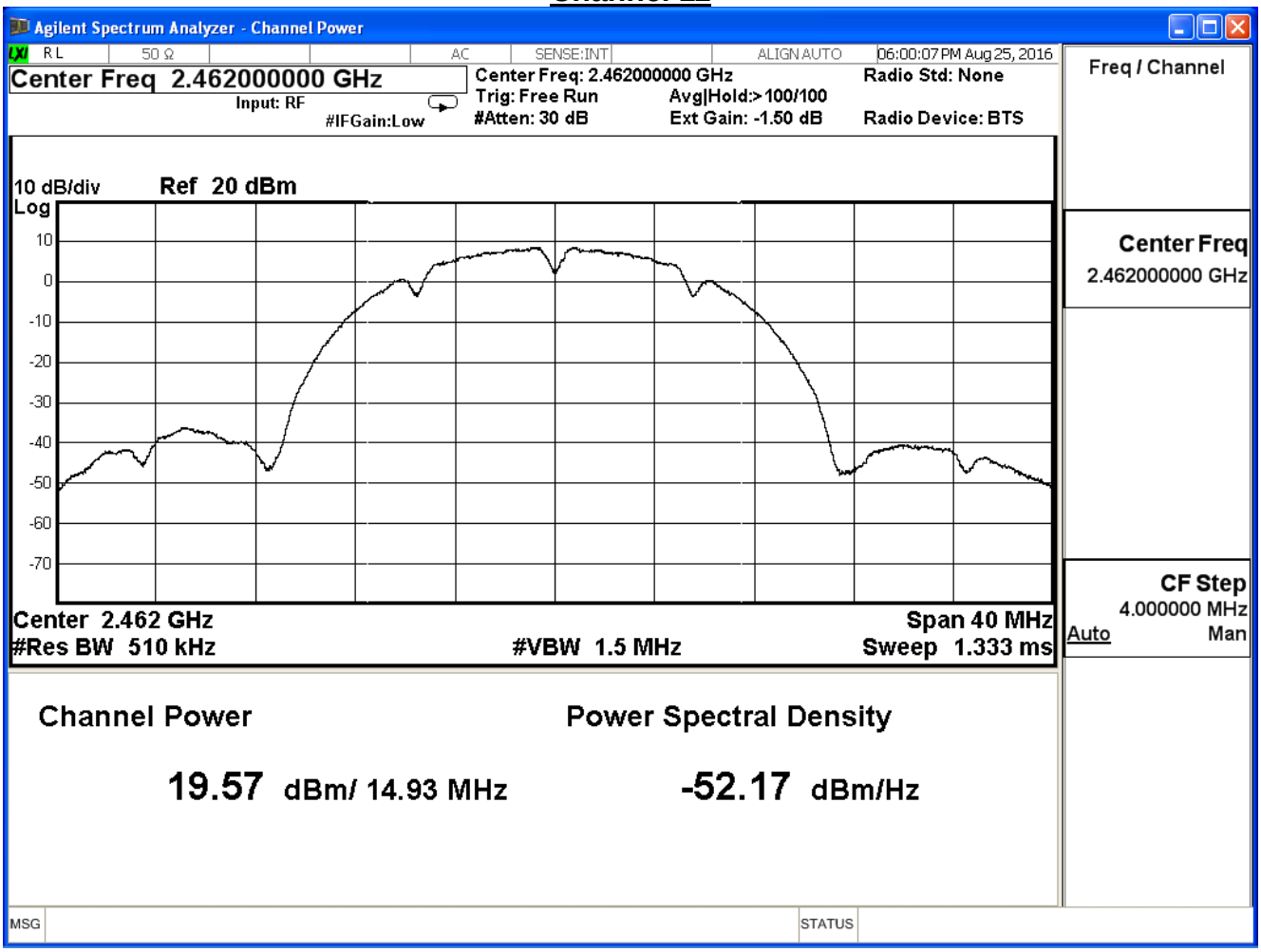
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
22.47 dBm/ 15.01 MHz
Power Spectral Density
-49.29 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:00:07 PM Aug 25, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
19.57 dBm/ 14.93 MHz
Power Spectral Density
-52.17 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/08/25	Test Site	SR7

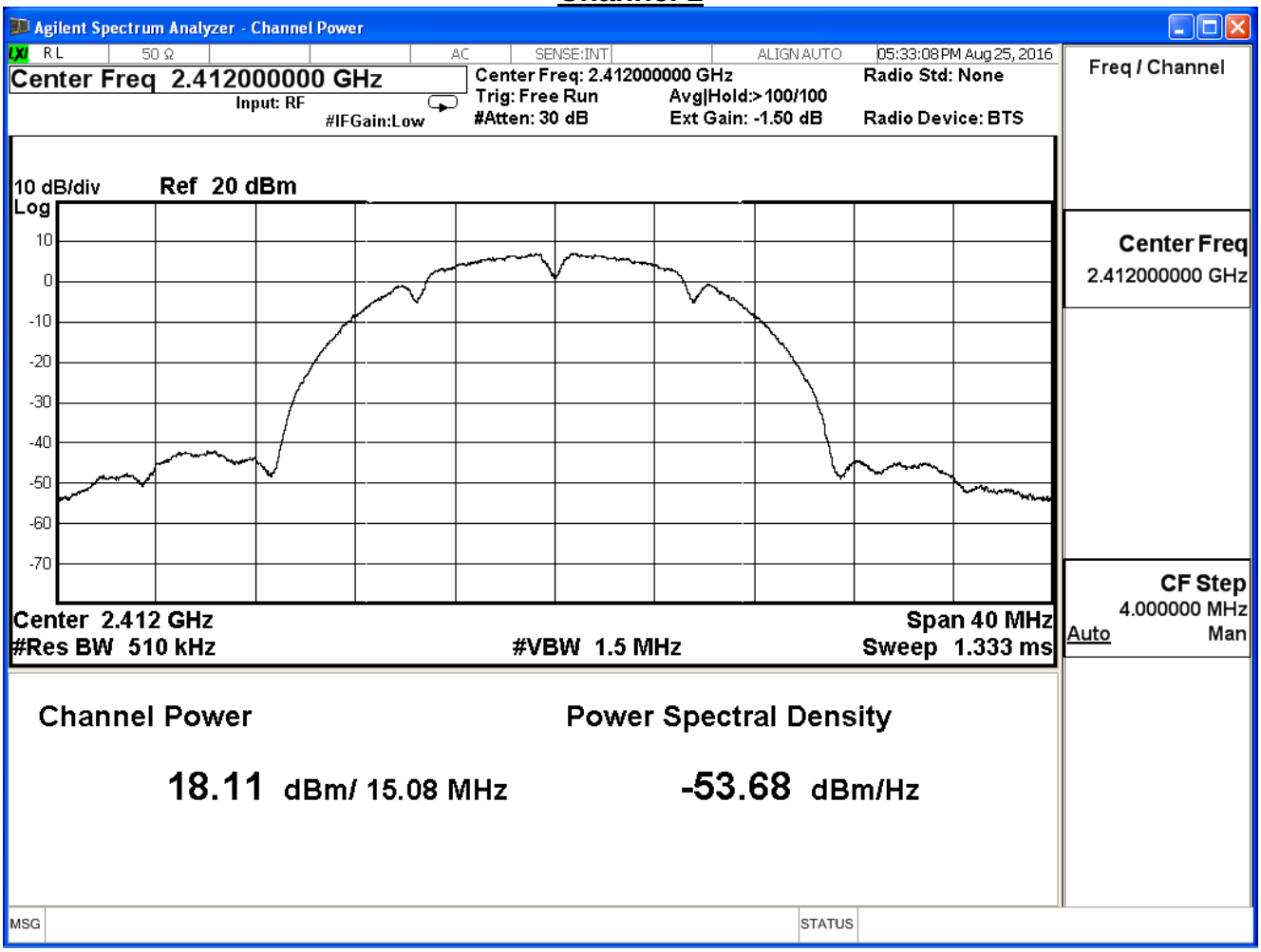
IEEE 802.11b (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.11	≦30
6	2437	22.73	≦30
11	2462	20.49	≦30

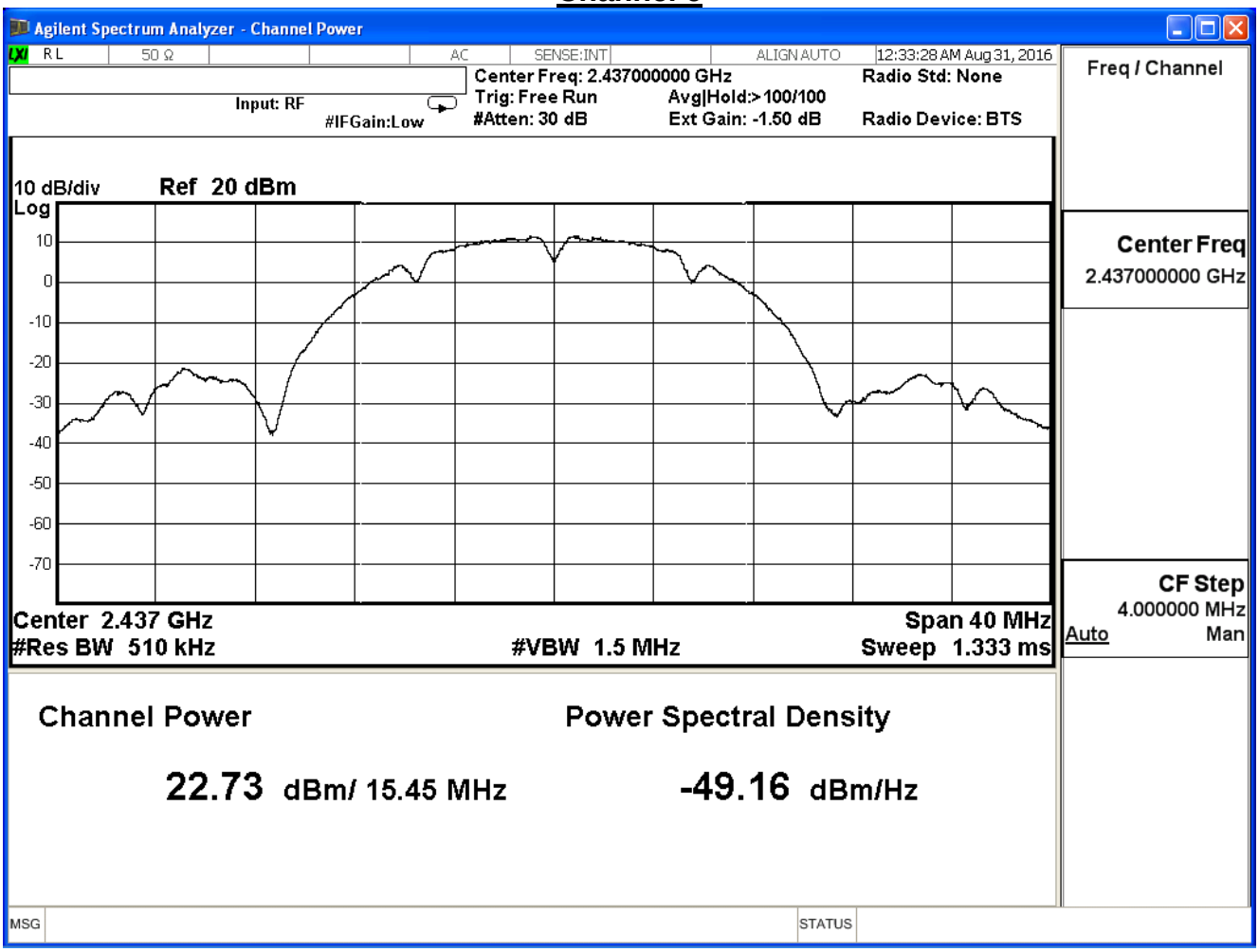
The worst emission of data rate is 1 Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	18.11	--	--	--	≦30dB
6	2437	22.73	22.67	22.45	22.11	
11	2462	20.49	--	--	--	

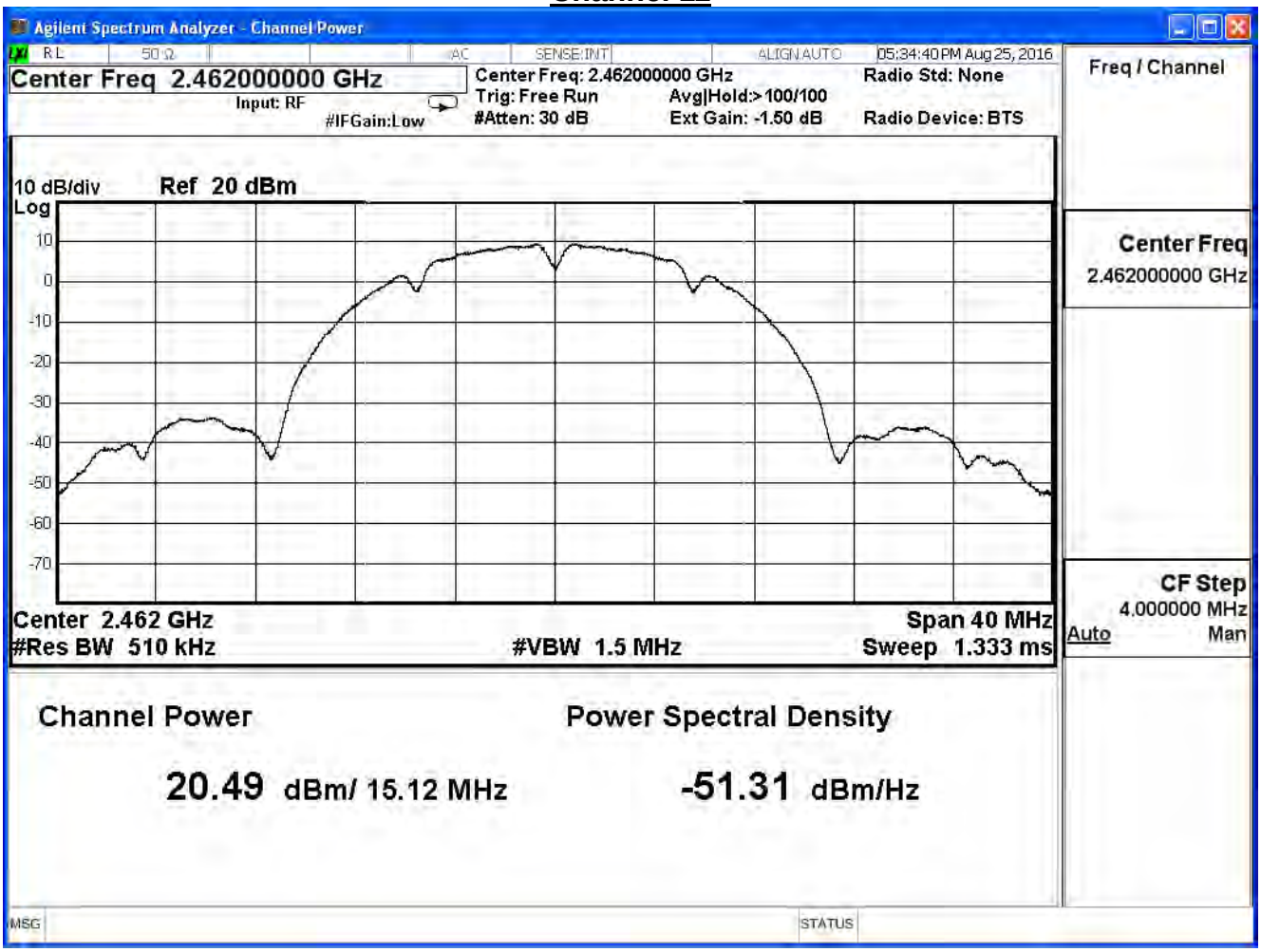
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:33:08 PM Aug 25, 2016
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
18.11 dBm/ 15.08 MHz
Power Spectral Density
-53.68 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:33:28 AM Aug 31, 2016
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Input: RF
#IFGain:Low
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
22.73 dBm/ 15.45 MHz
Power Spectral Density
-49.16 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:34:40 PM Aug 25, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
CF Step
4.000000 MHz
Auto
Man
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
20.49 dBm/ 15.12 MHz
Power Spectral Density
-51.31 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/08/25	Test Site	SR7

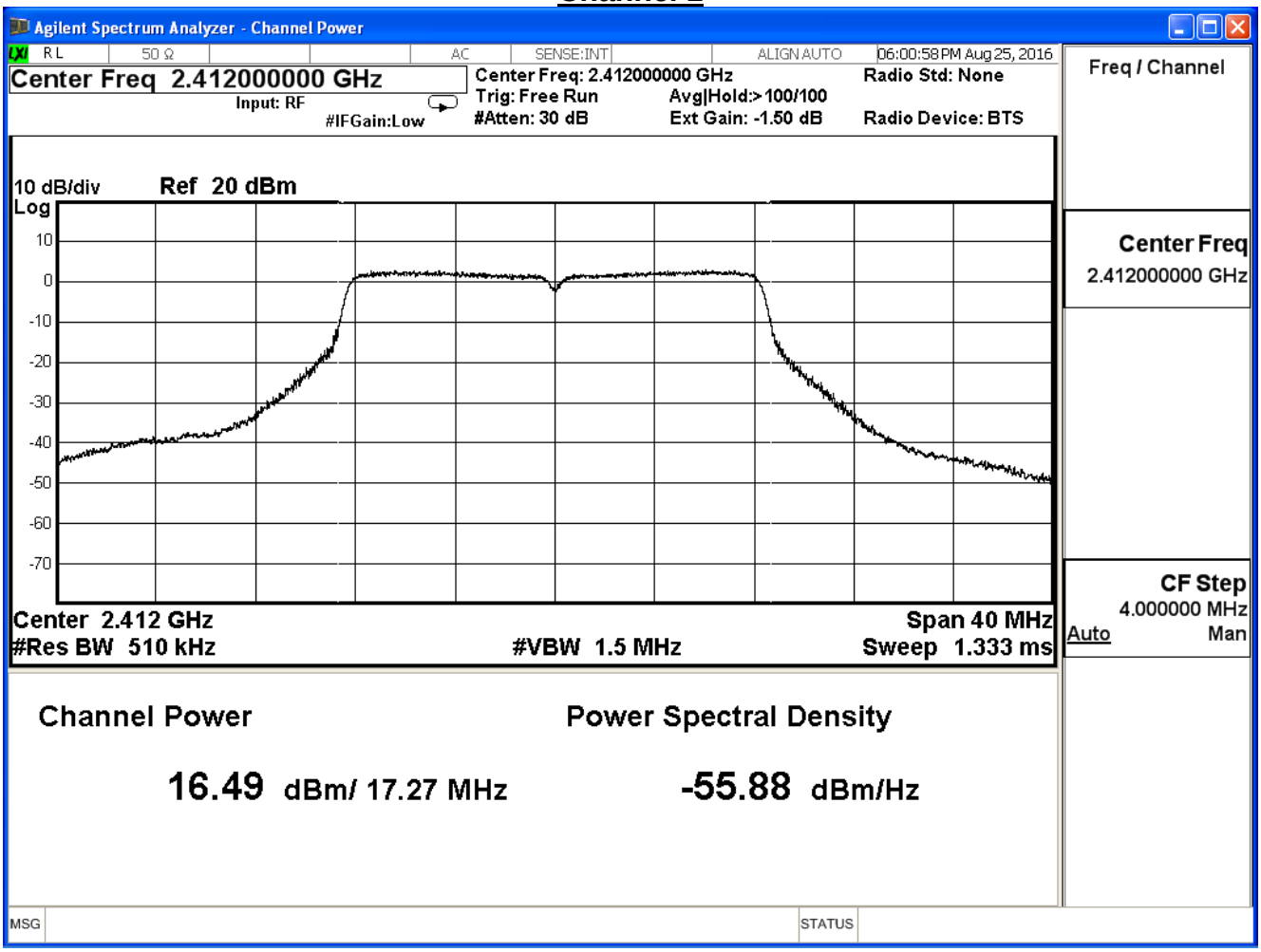
IEEE 802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	16.49	≦30
6	2437	21.98	≦30
11	2462	15.79	≦30

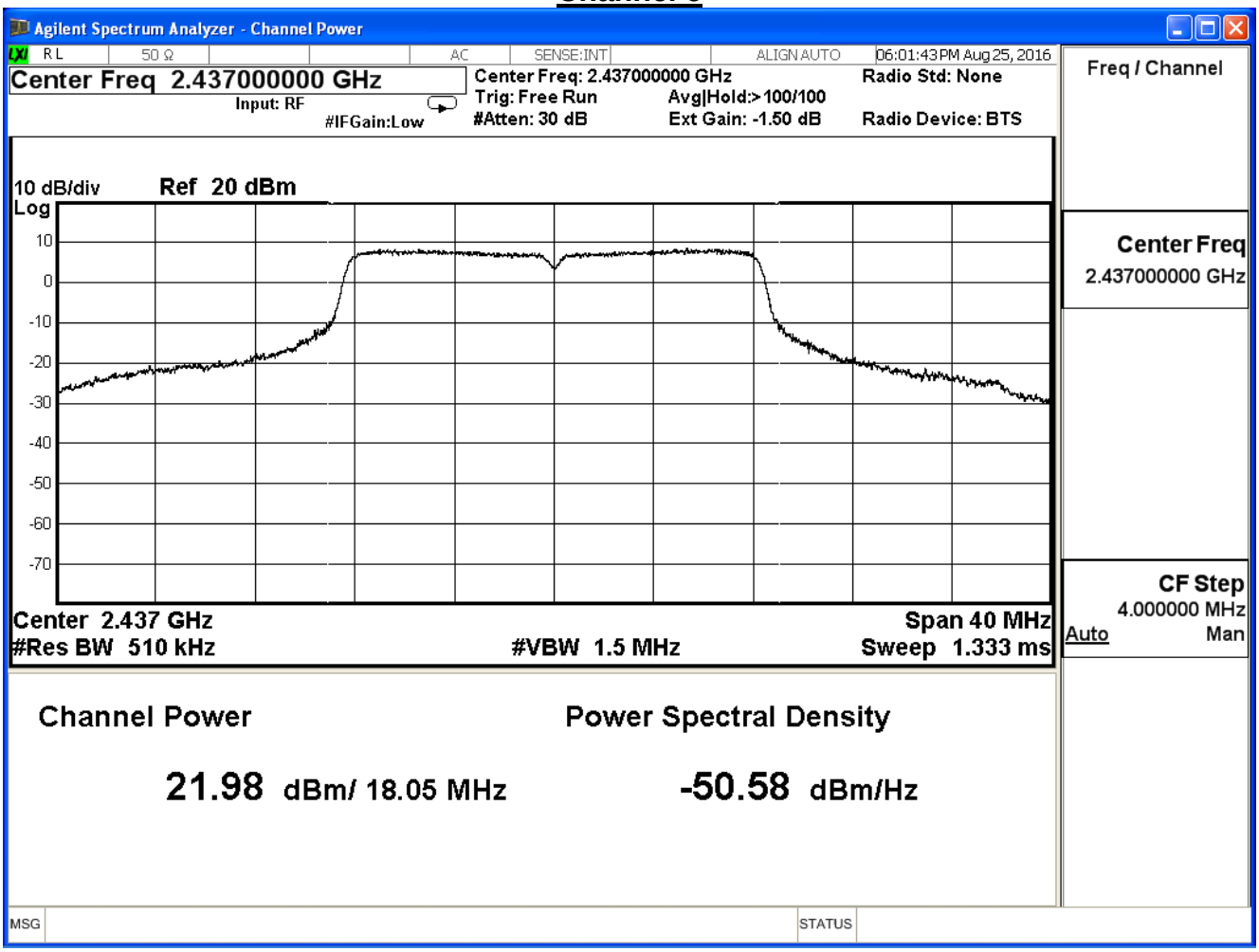
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	16.49	--	--	--	--	--	--	≦30dB
6	2437	21.98	21.68	21.38	21.08	20.47	19.87	19.57	
11	2462	15.79	--	--	--	--	--	--	

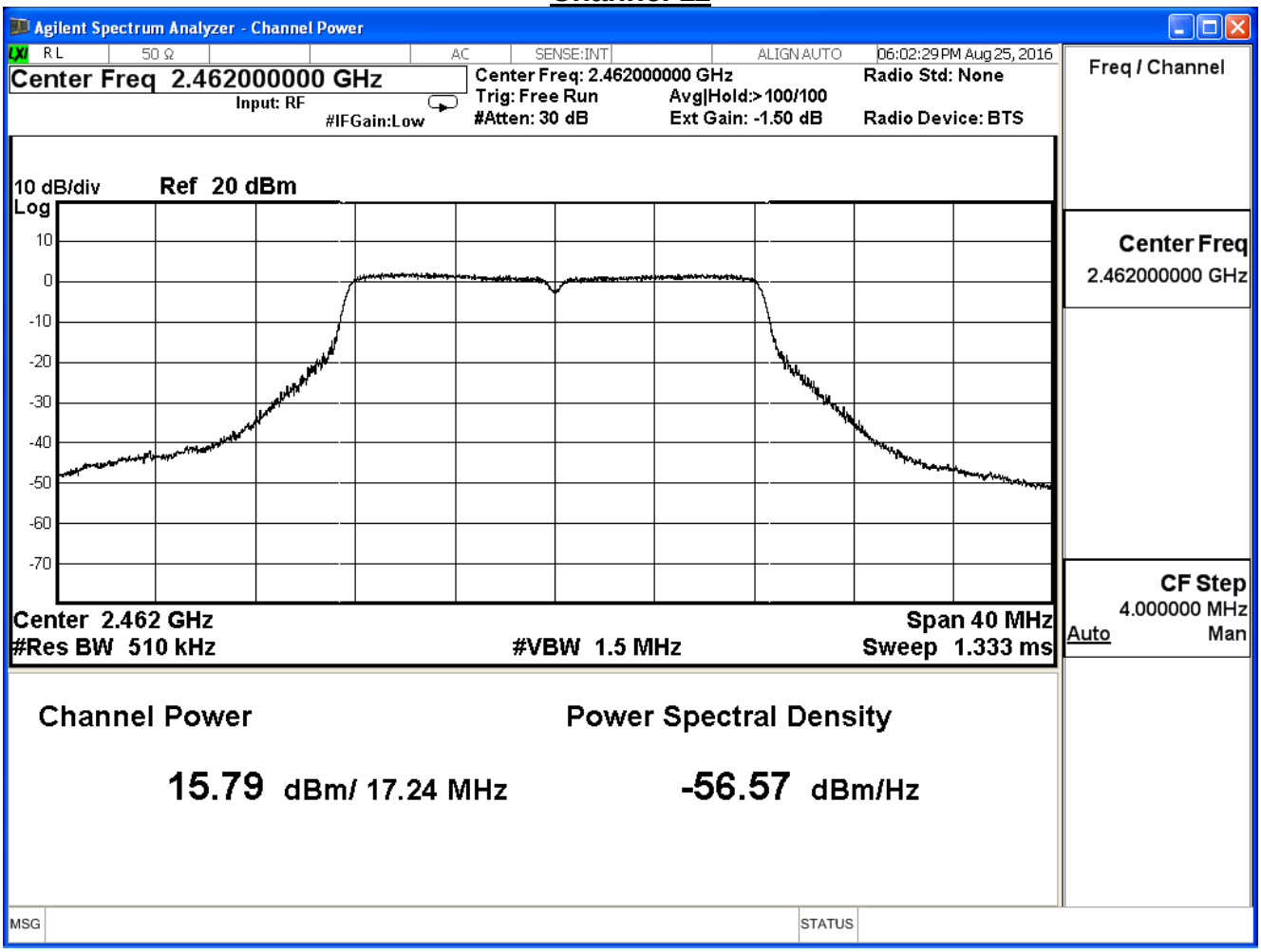
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:00:58 PM Aug 25, 2016
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
16.49 dBm/ 17.27 MHz
Power Spectral Density
-55.88 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:01:43 PM Aug 25, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
21.98 dBm/ 18.05 MHz
Power Spectral Density
-50.58 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:02:29 PM Aug 25, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
15.79 dBm/ 17.24 MHz
Power Spectral Density
-56.57 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/08/25	Test Site	SR7

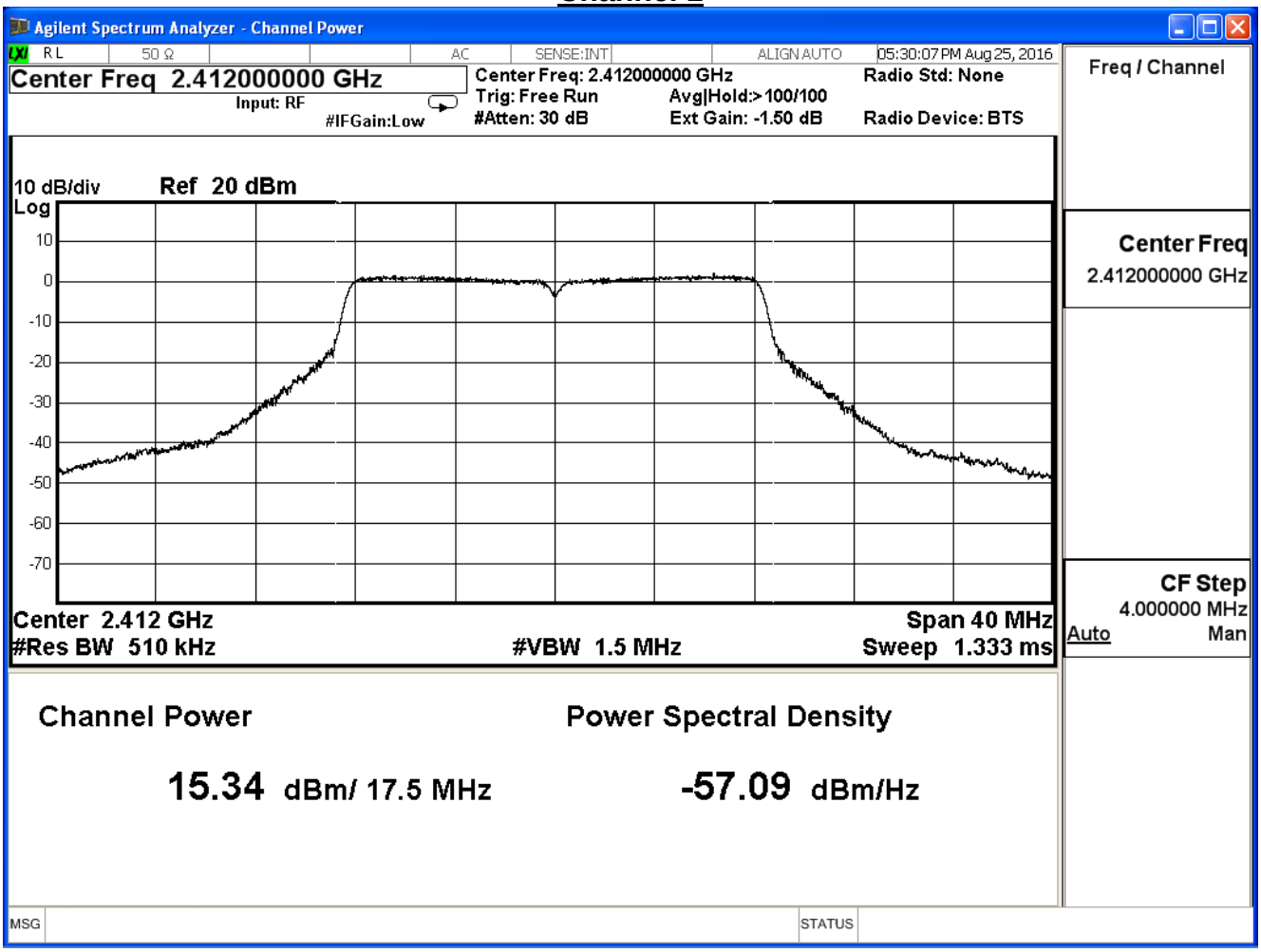
IEEE 802.11g (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	15.34	≦30
6	2437	20.07	≦30
11	2462	16.78	≦30

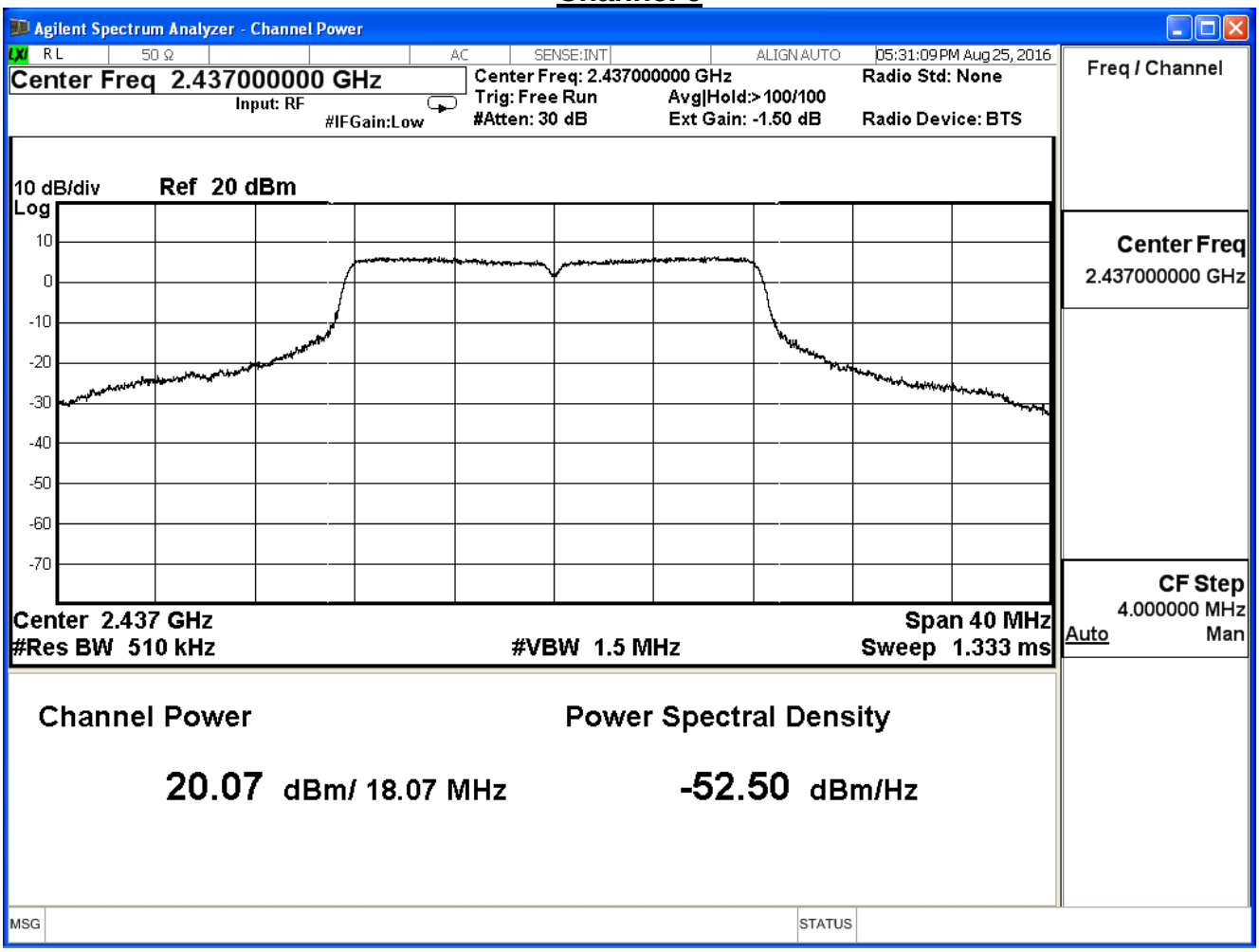
The worst emission of data rate is 6 Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	15.34	--	--	--	--	--	--	≦30dB
6	2437	20.07	19.87	19.67	19.46	19.06	18.65	18.45	
11	2462	16.78	--	--	--	--	--	--	

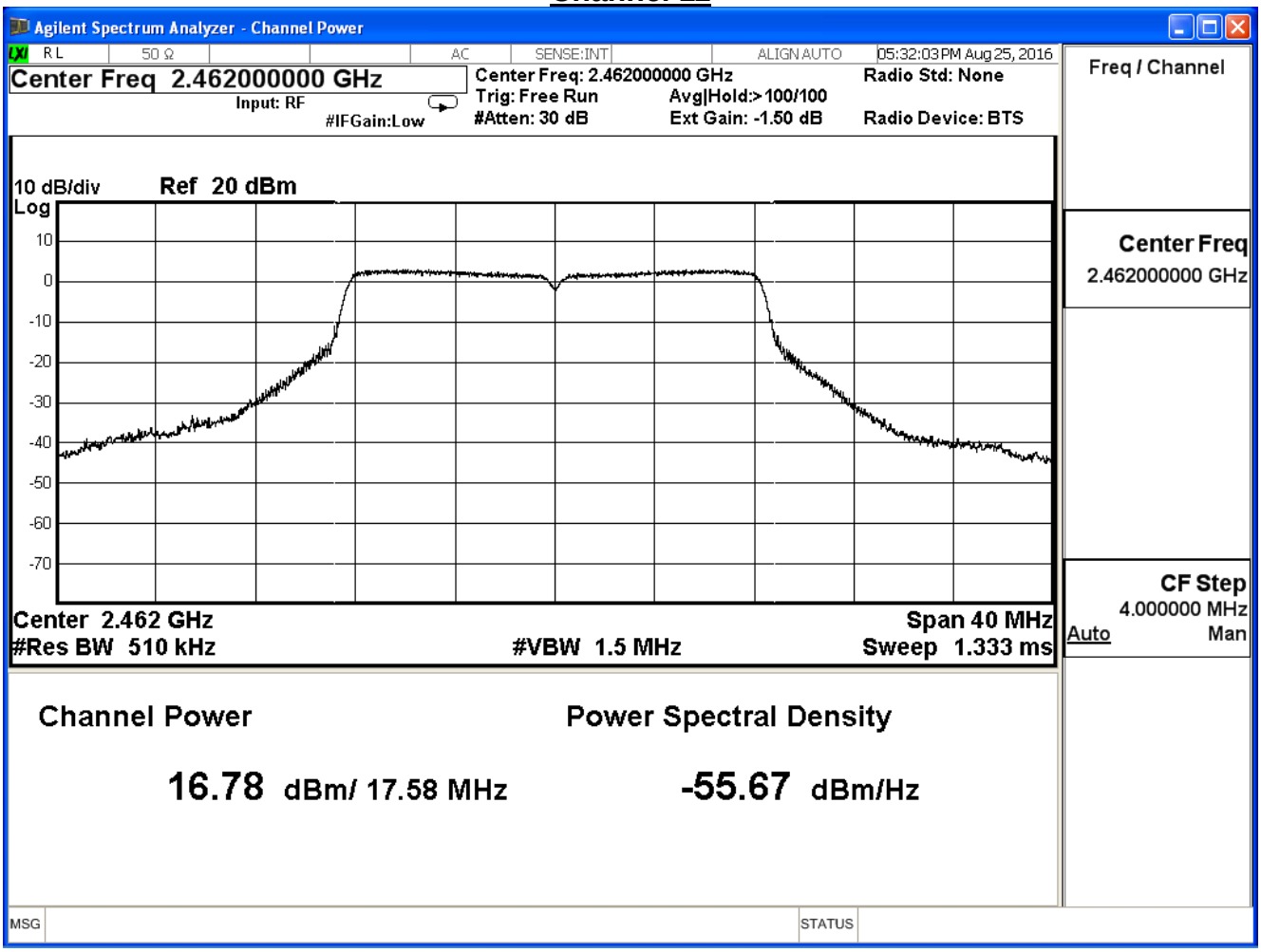
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:30:07 PM Aug 25, 2016
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
15.34 dBm/ 17.5 MHz
Power Spectral Density
-57.09 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:31:09 PM Aug 25, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
20.07 dBm/ 18.07 MHz
Power Spectral Density
-52.50 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:32:03 PM Aug 25, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
16.78 dBm/ 17.58 MHz
Power Spectral Density
-55.67 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

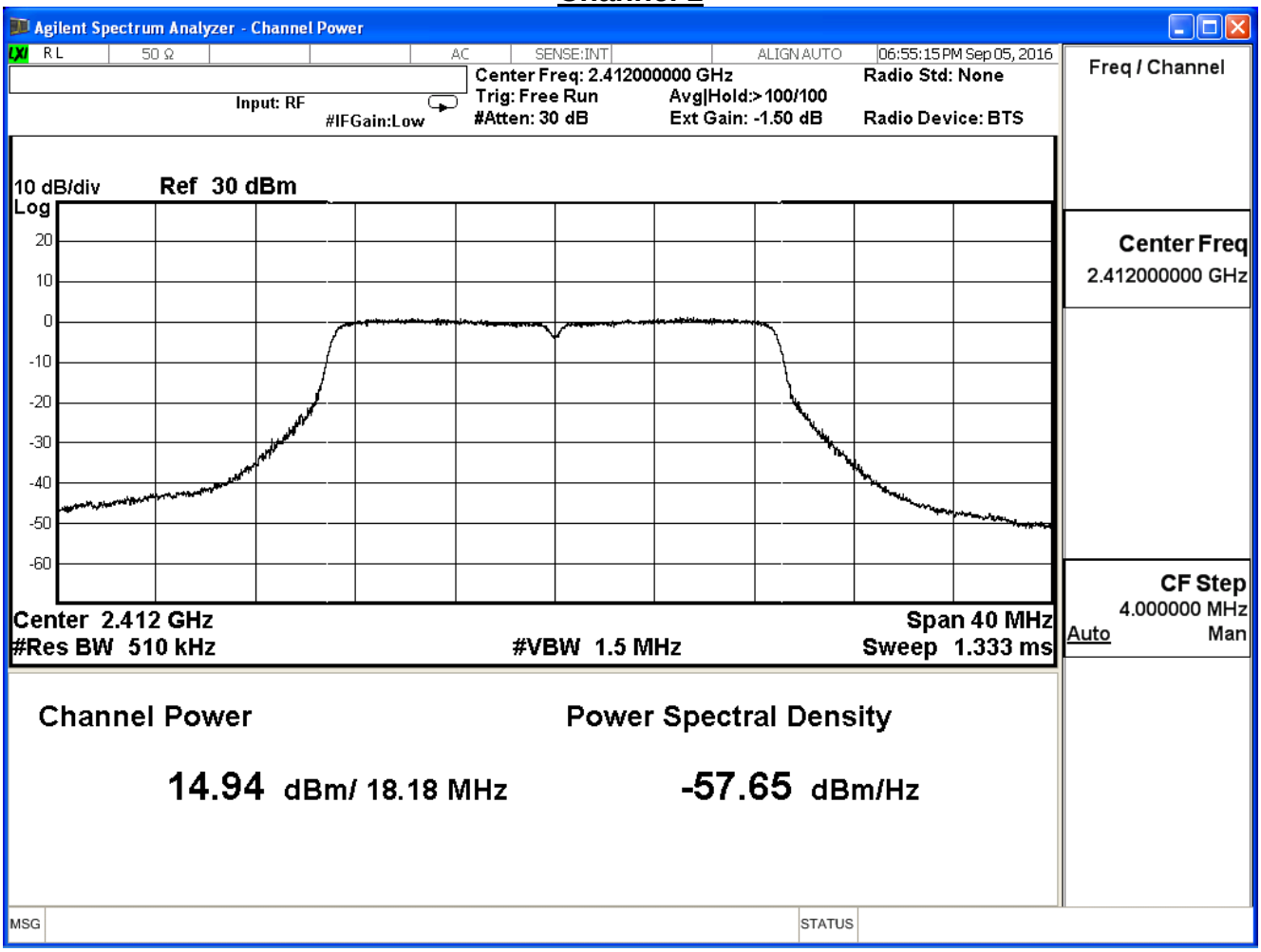
EEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	14.94	≦30
6	2437	19.81	≦30
11	2462	14.44	≦30

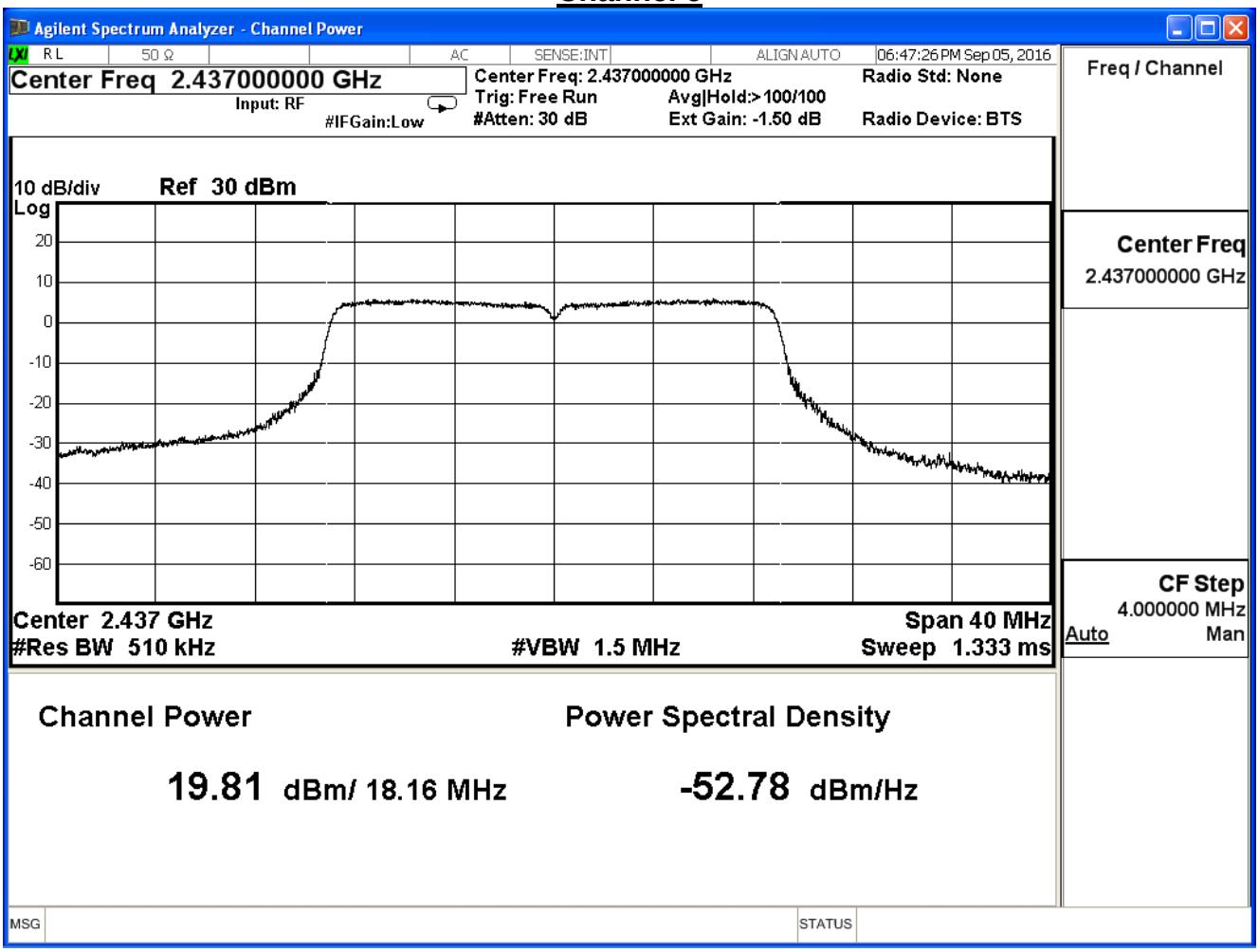
The worst emission of data rate is 6.5 Mbps

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	14.94	--	--	--	--	--	--	--	≦30dB
6	2437	19.81	19.39	18.97	18.54	17.70	16.85	16.43	16.01	
11	2462	14.44	--	--	--	--	--	--	--	

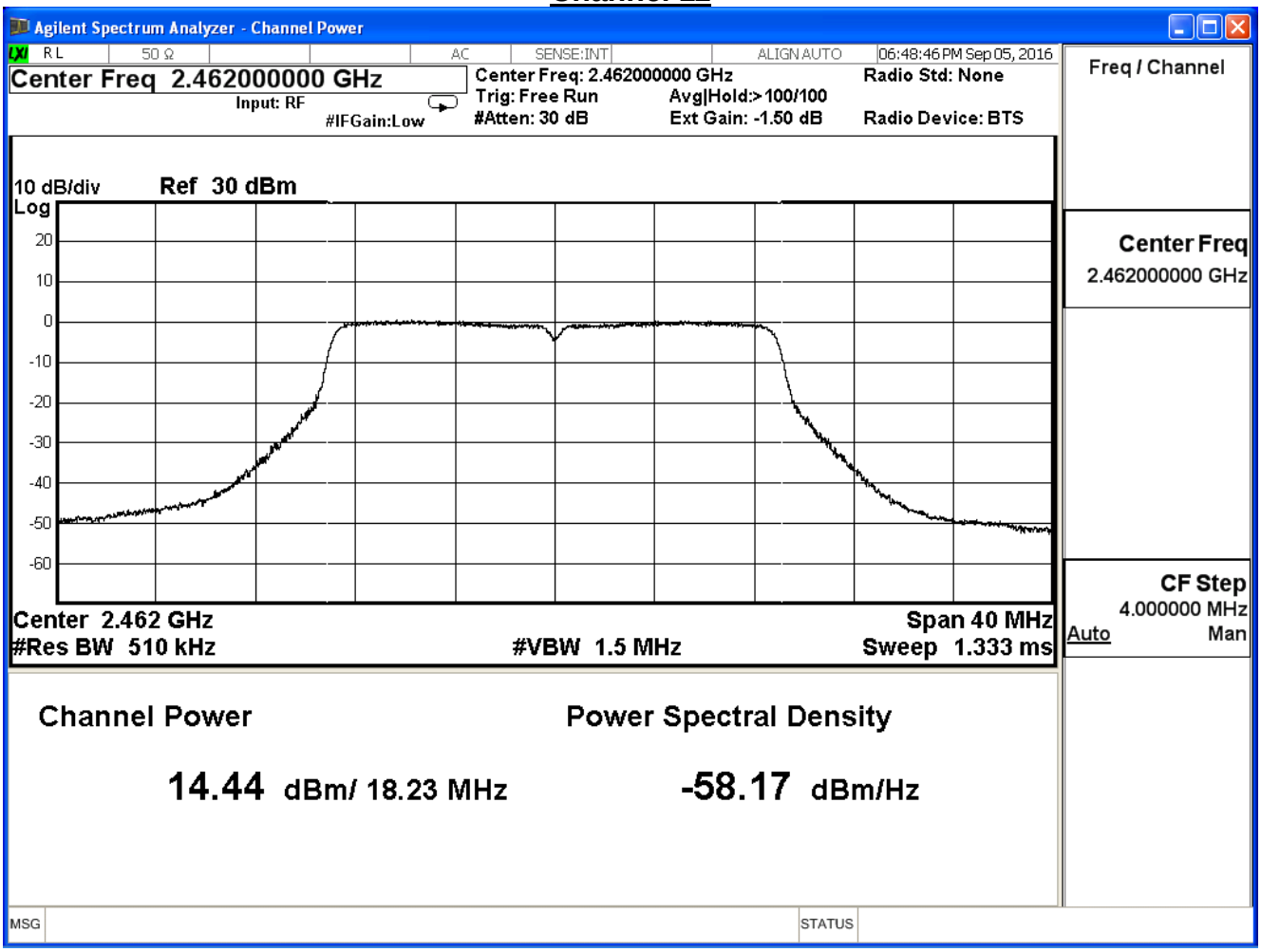
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:55:15 PM Sep 05, 2016
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
14.94 dBm/ 18.18 MHz
Power Spectral Density
-57.65 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:47:26 PM Sep 05, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
19.81 dBm/ 18.16 MHz
Power Spectral Density
-52.78 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:48:46 PM Sep 05, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.50 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
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
14.44 dBm/ 18.23 MHz
Power Spectral Density
-58.17 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

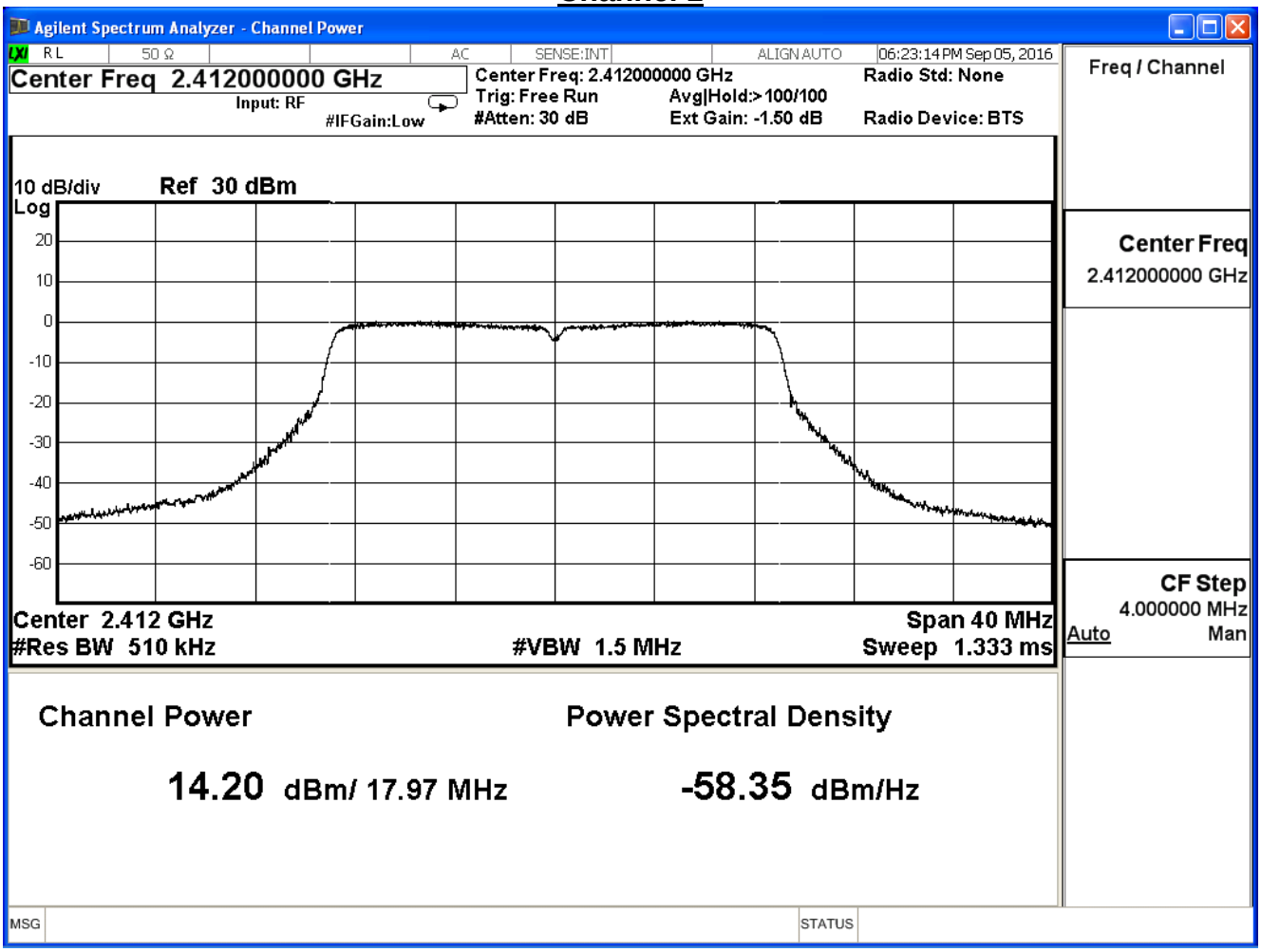
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	14.20	≦30
6	2437	19.39	≦30
11	2462	14.01	≦30

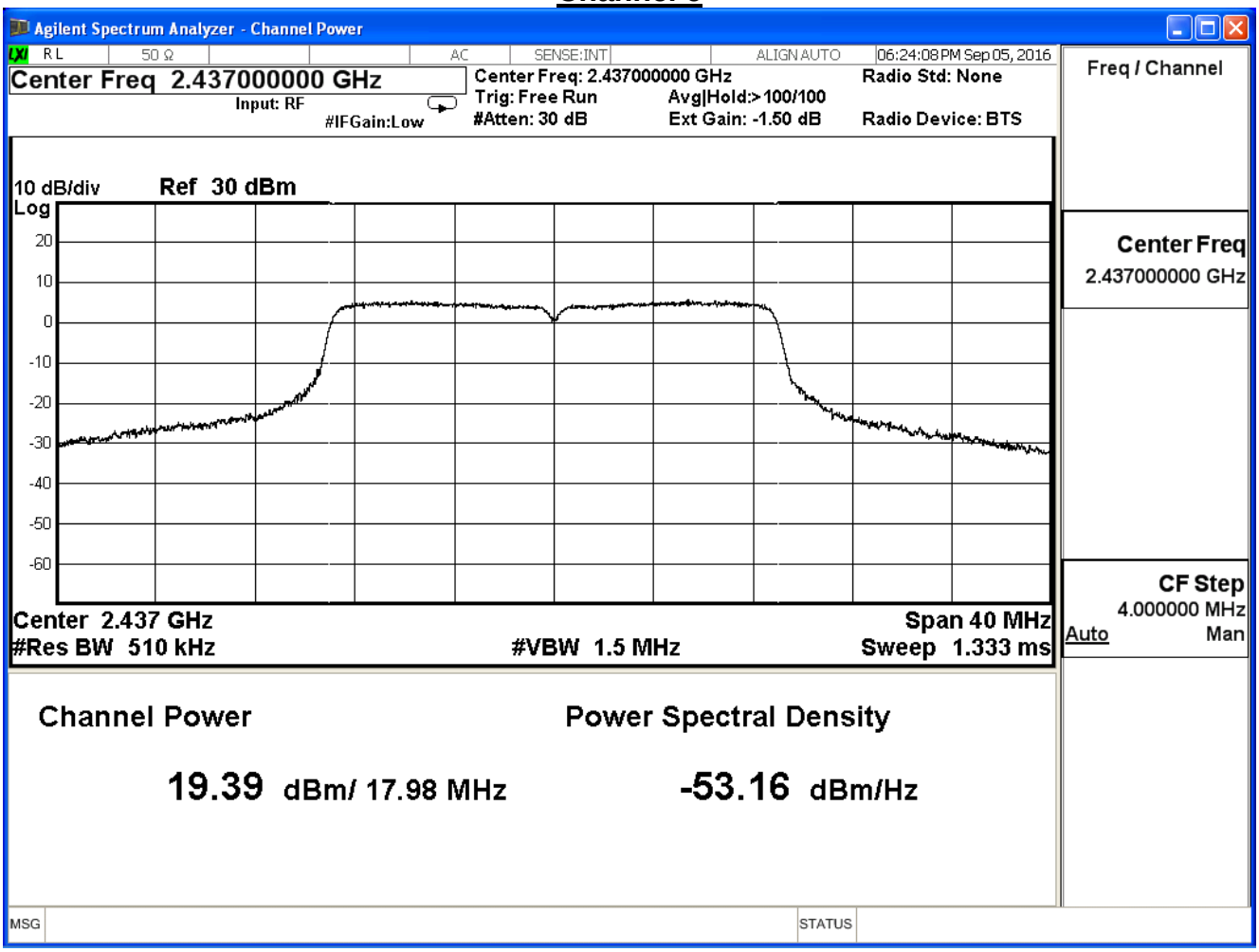
The worst emission of data rate is 6.5 Mbps

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	14.20	--	--	--	--	--	--	--	≦30dB
6	2437	19.39	19.07	18.75	18.44	17.80	17.17	16.85	16.53	
11	2462	14.01	--	--	--	--	--	--	--	

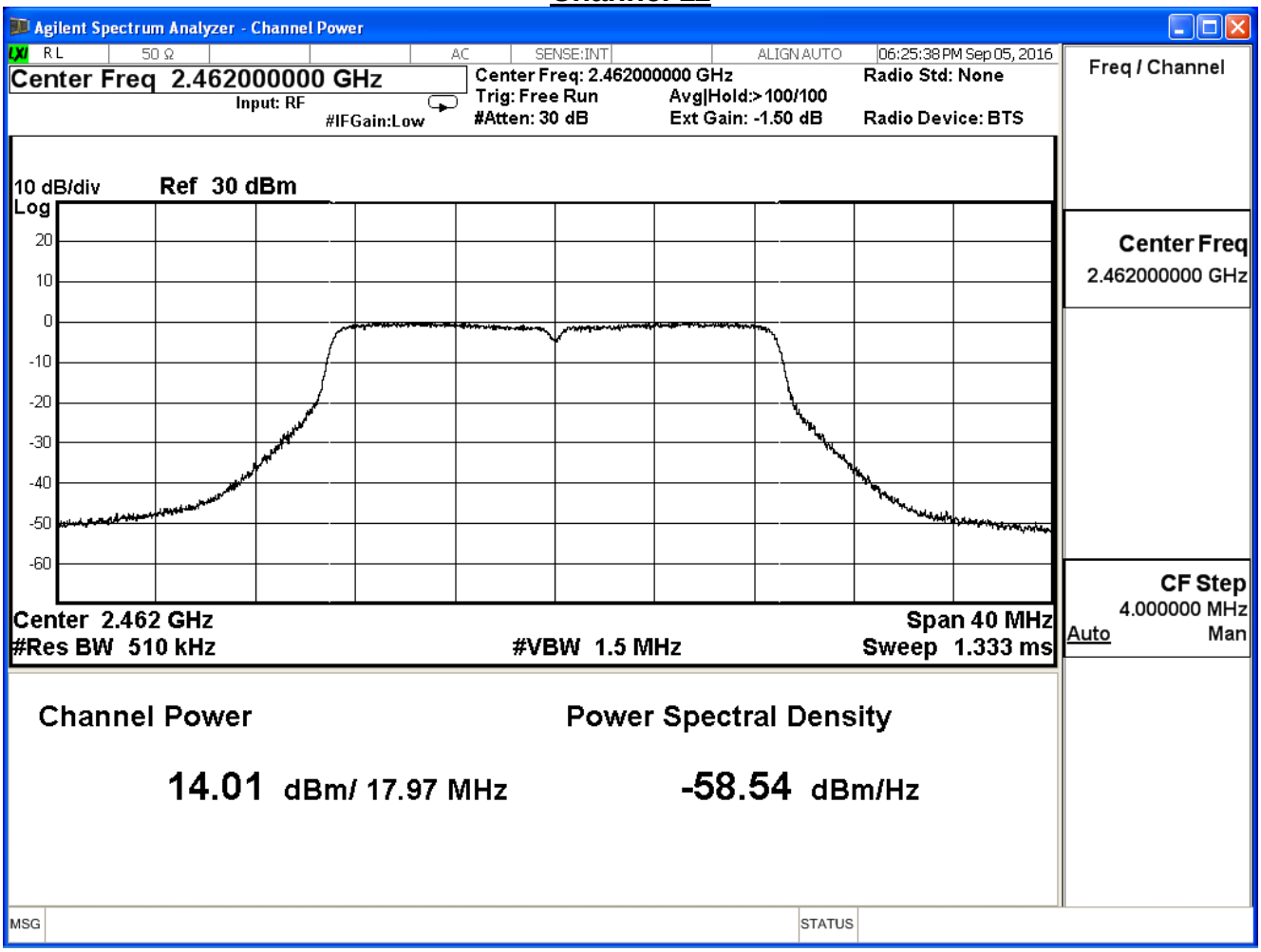
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:23:14 PM Sep 05, 2016
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
14.20 dBm/ 17.97 MHz
Power Spectral Density
-58.35 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:24:08 PM Sep 05, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
19.39 dBm/ 17.98 MHz
Power Spectral Density
-53.16 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:25:38 PM Sep 05, 2016
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Channel Power
14.01 dBm/ 17.97 MHz
Power Spectral Density
-58.54 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	17.60	≦30
6	2437	22.62	≦30
11	2462	17.24	≦30

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	17.60	--	--	--	--	--	--	--	≦30dB
6	2437	22.62	22.24	21.87	21.50	20.76	20.02	19.66	19.29	
11	2462	17.24	--	--	--	--	--	--	--	

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

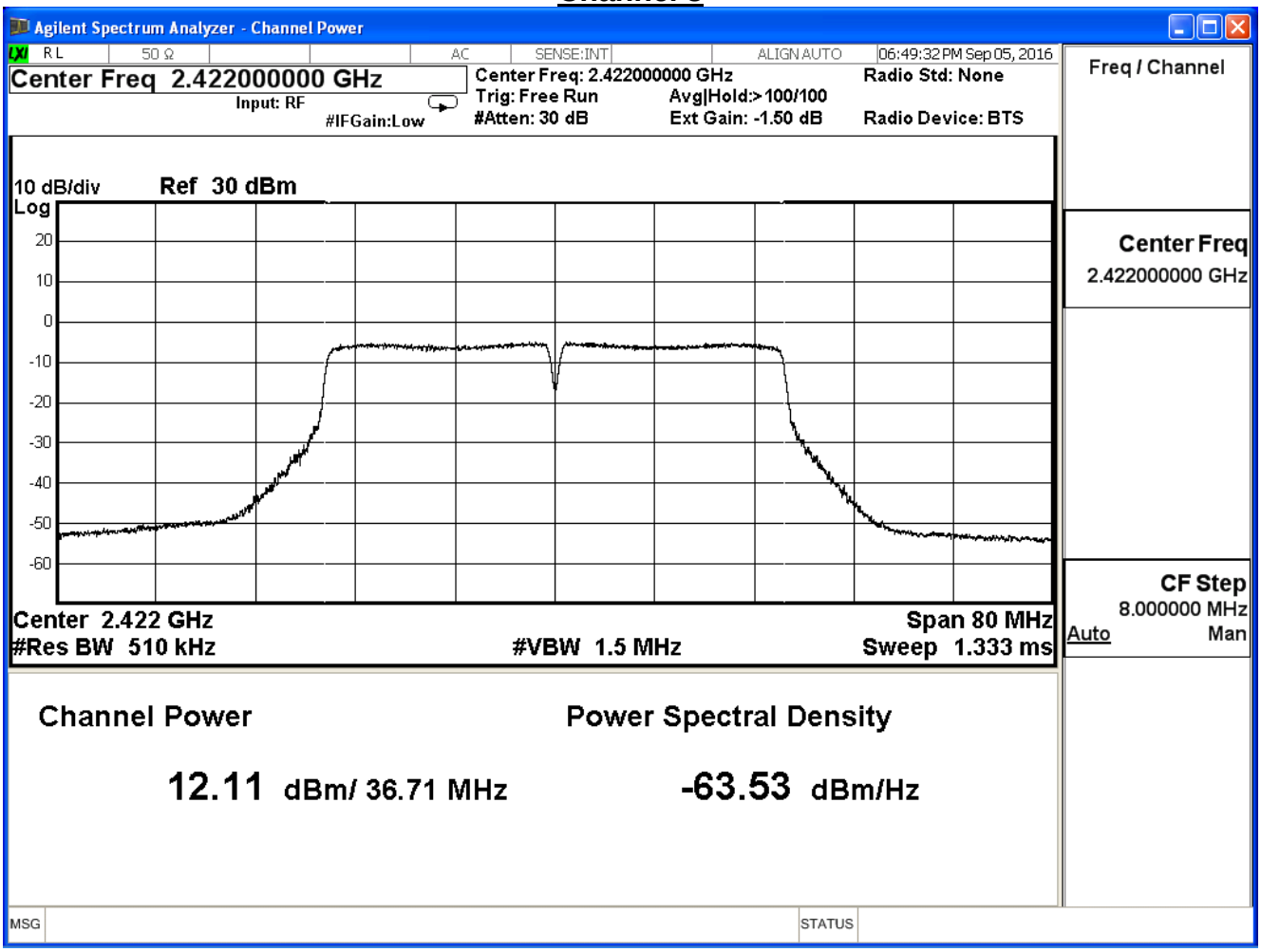
IEEE 802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	12.11	≦30
6	2437	14.78	≦30
9	2452	11.76	≦30

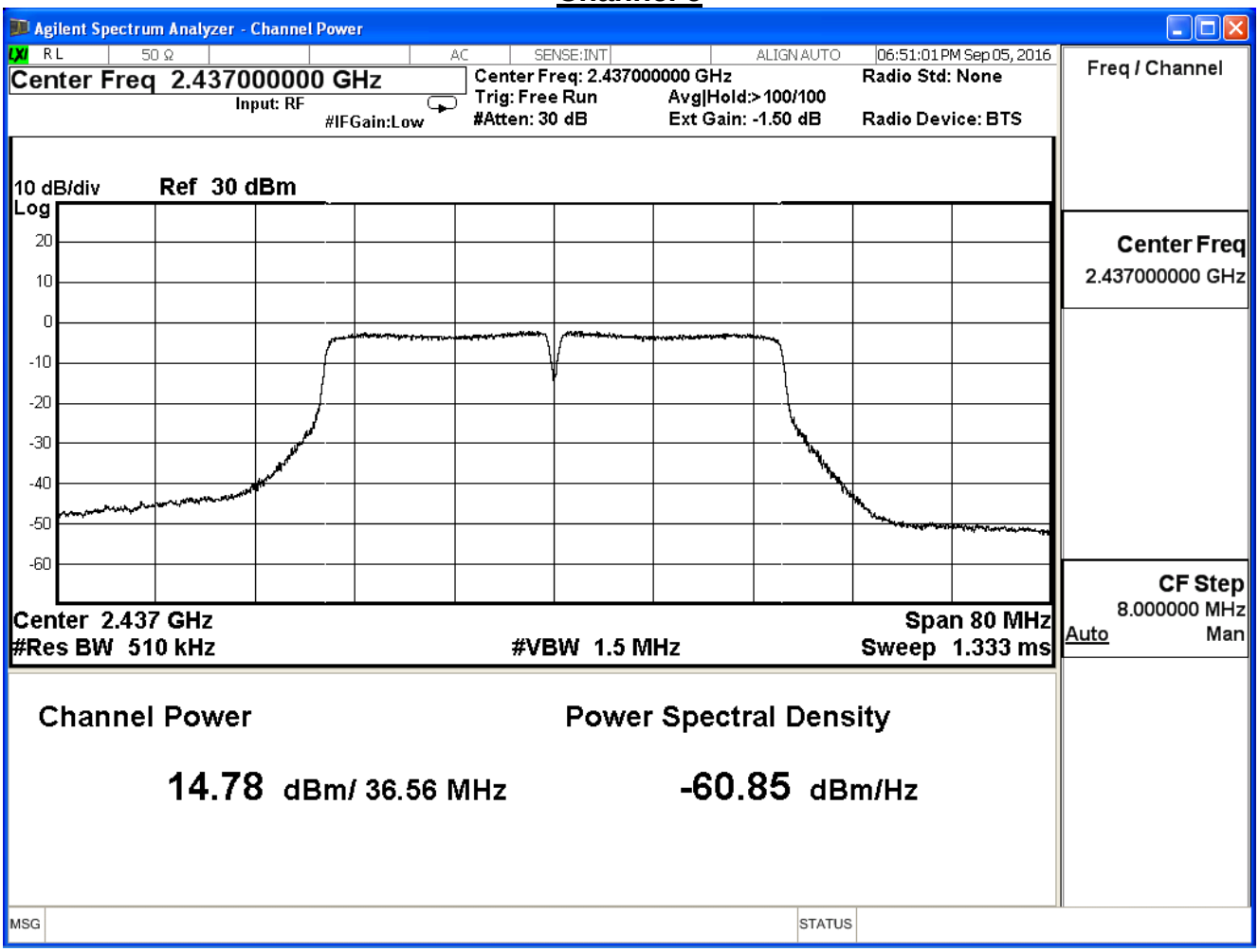
The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.50	27.00	40.50	54.00	81.00	108.00	121.50	135.00	
3	2422	12.11	--	--	--	--	--	--	--	≦30dB
6	2437	14.78	14.49	14.20	13.92	13.34	12.77	12.48	12.19	
9	2452	11.76	--	--	--	--	--	--	--	

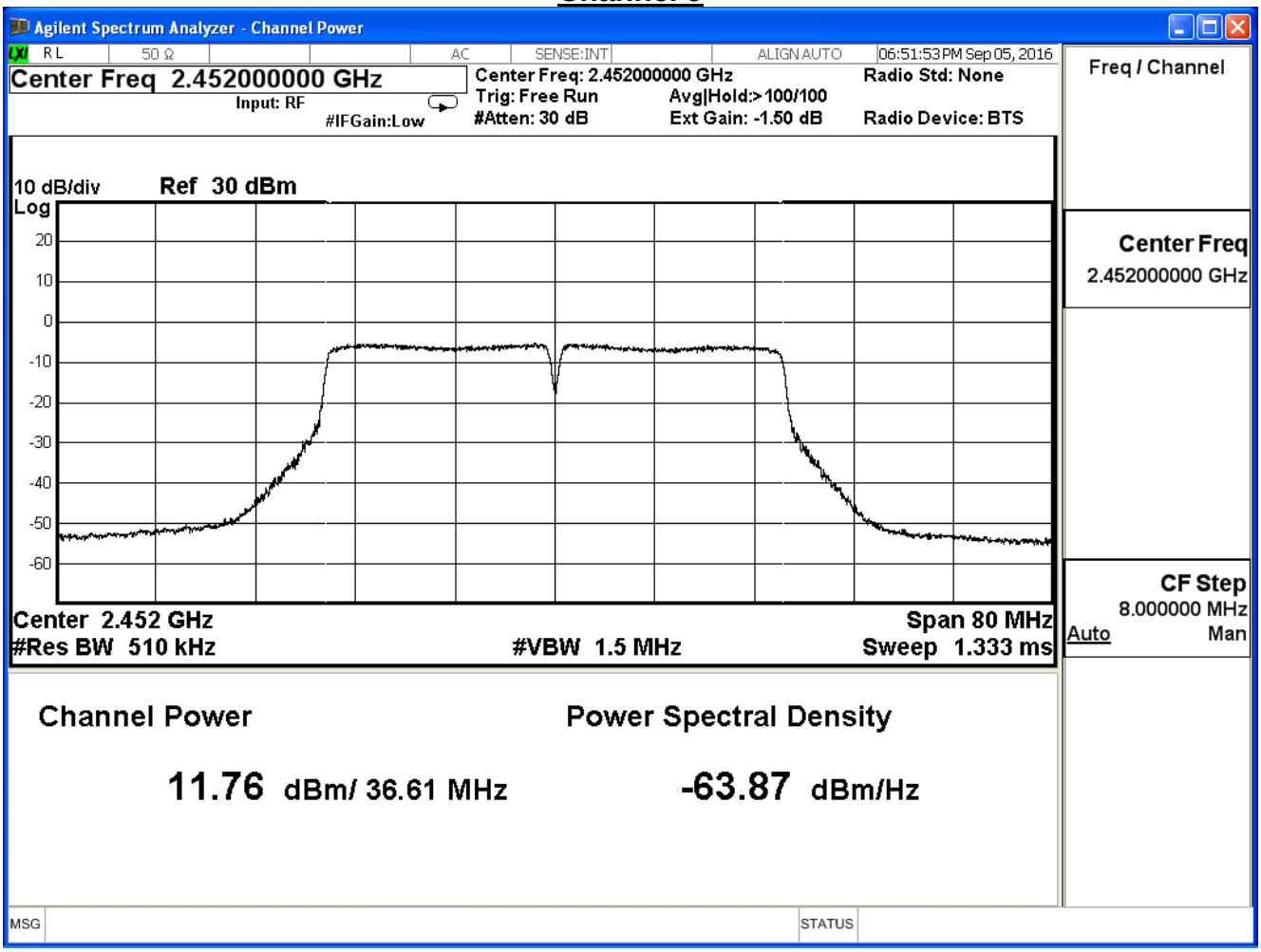
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:49:32 PM Sep 05, 2016
Center Freq 2.422000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.50 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
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Channel Power
12.11 dBm/ 36.71 MHz
Power Spectral Density
-63.53 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:51:01 PM Sep 05, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Channel Power
14.78 dBm/ 36.56 MHz
Power Spectral Density
-60.85 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:51:53 PM Sep 05, 2016
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Channel Power
11.76 dBm/ 36.61 MHz
Power Spectral Density
-63.87 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

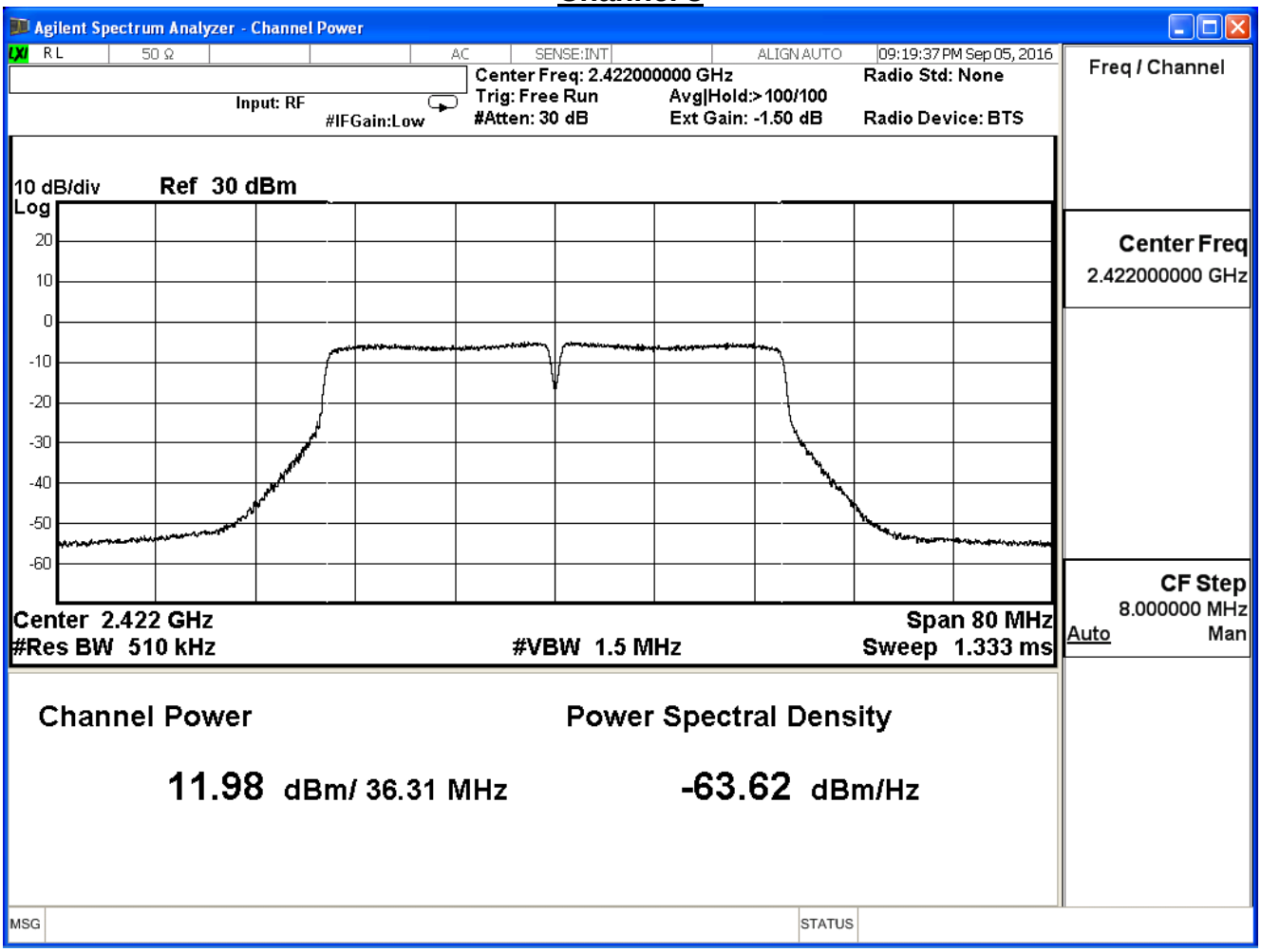
IEEE 802.11n_40M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	11.98	≦30
6	2437	14.86	≦30
9	2452	11.55	≦30

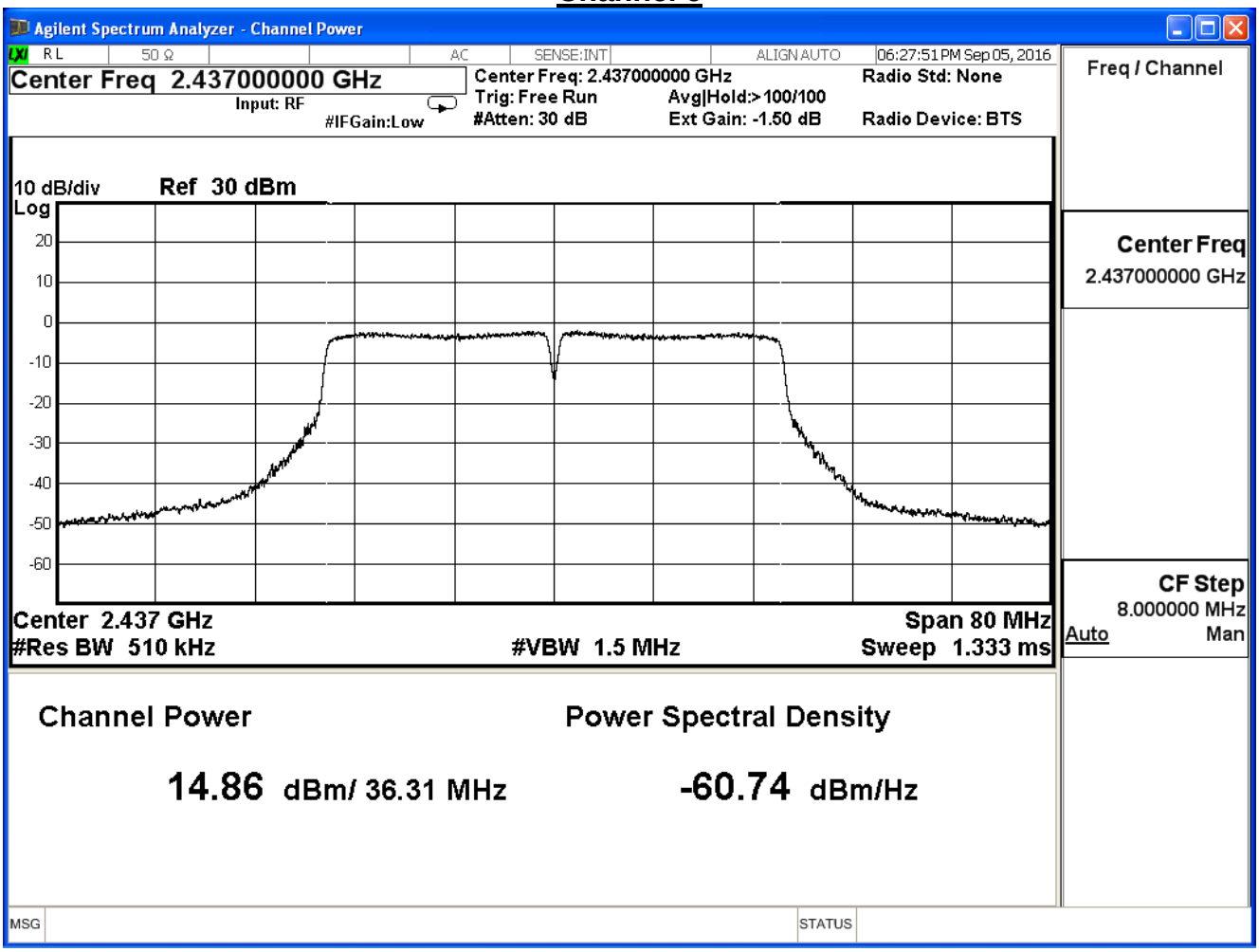
The worst emission of data rate is 13.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.50	27.00	40.50	54.00	81.00	108.00	121.50	135.00	
3	2422	11.98	--	--	--	--	--	--	--	≦30dB
6	2437	14.86	14.60	14.34	14.08	13.56	13.04	12.78	12.52	
9	2452	11.55	--	--	--	--	--	--	--	

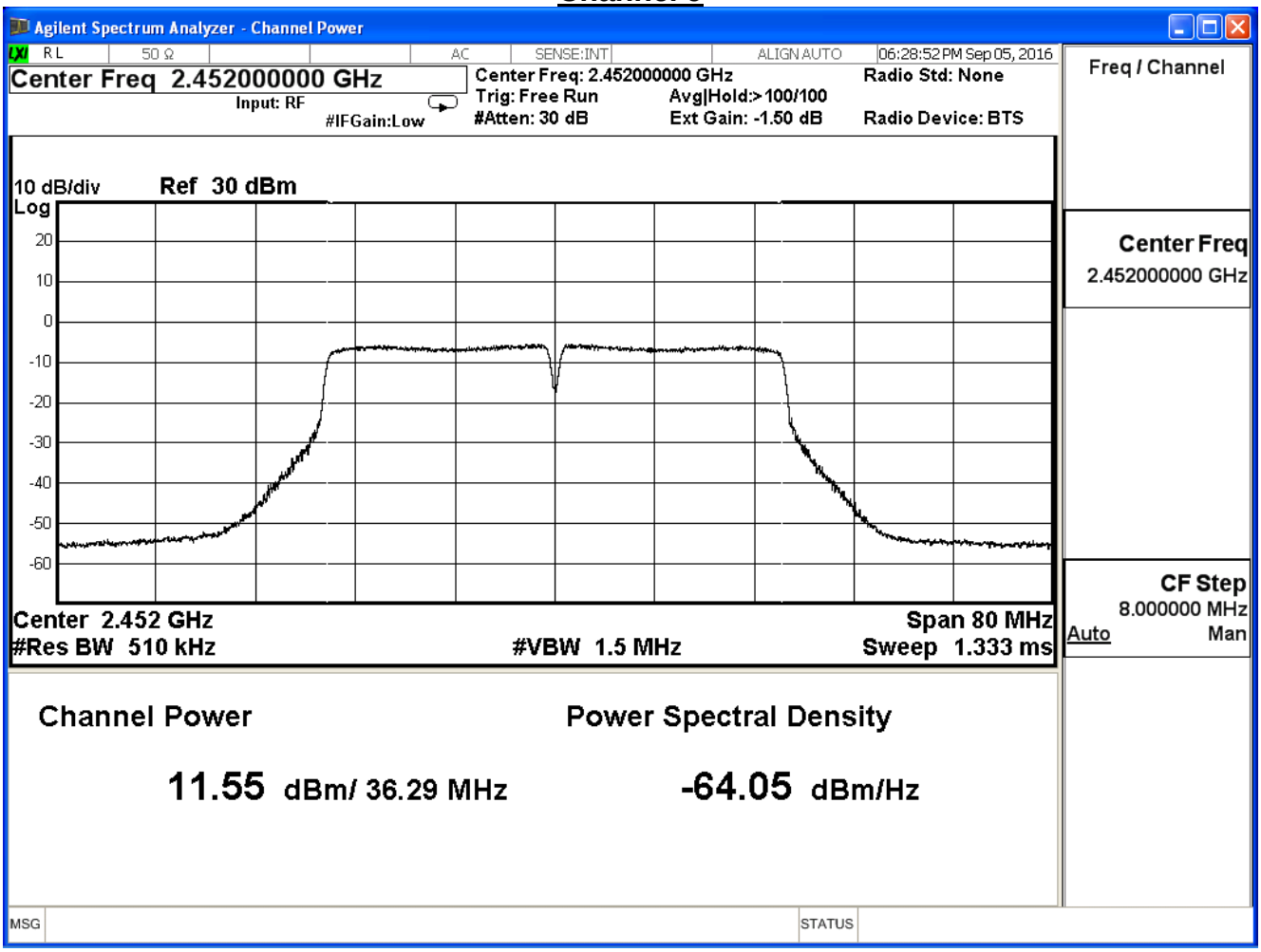
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:19:37 PM Sep 05, 2016
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Channel Power
11.98 dBm/ 36.31 MHz
Power Spectral Density
-63.62 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:27:51 PM Sep 05, 2016
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
CF Step
8.000000 MHz
Auto
Man
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
Channel Power
14.86 dBm/ 36.31 MHz
Power Spectral Density
-60.74 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:28:52 PM Sep 05, 2016
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.50 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
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Channel Power
11.55 dBm/ 36.29 MHz
Power Spectral Density
-64.05 dBm/Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/05	Test Site	SR7

IEEE 802.11n_40M (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	15.06	≦30
6	2437	17.83	≦30
9	2452	14.67	≦30

The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.50	27.00	40.50	54.00	81.00	108.00	121.50	135.00	
3	2422	15.06	--	--	--	--	--	--	--	≦30dB
6	2437	17.83	17.56	17.28	17.01	16.46	15.92	15.64	15.37	
9	2452	14.67	--	--	--	--	--	--	--	

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

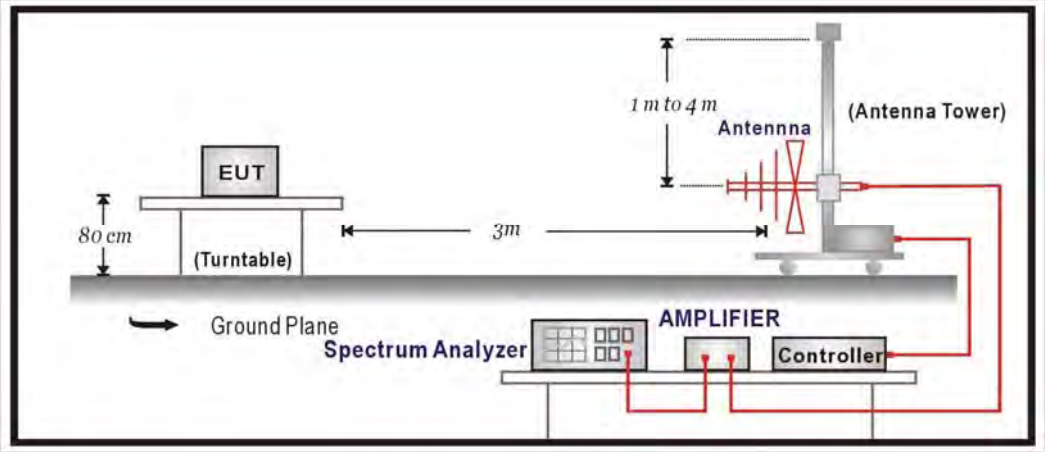
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2017/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2017/01/14
Pre-Amplifier	EMCI	EMC0031835	4583/10/13	2017/01/26
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2017/01/03
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/12/24
k Type Cable	Huber+Suhner	SF 102	25623/2	2017/01/11
Horn Antenna	Schwarzbeck	BBHA 9170	203	2016/09/07
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05

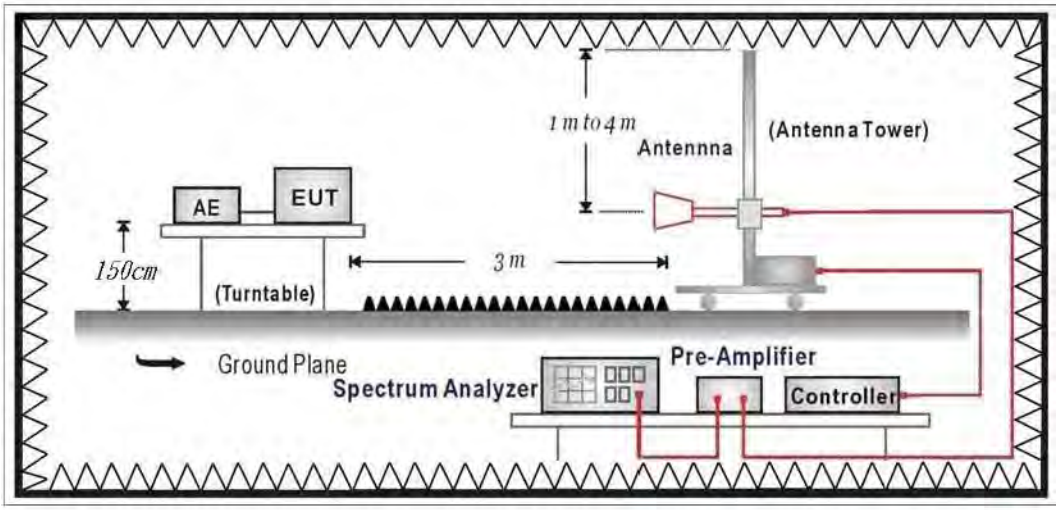
Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 1.5 meter above ground(under 1GHz) or 1.5 meter above ground (above 1GHz). 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 C63.10 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: 2015

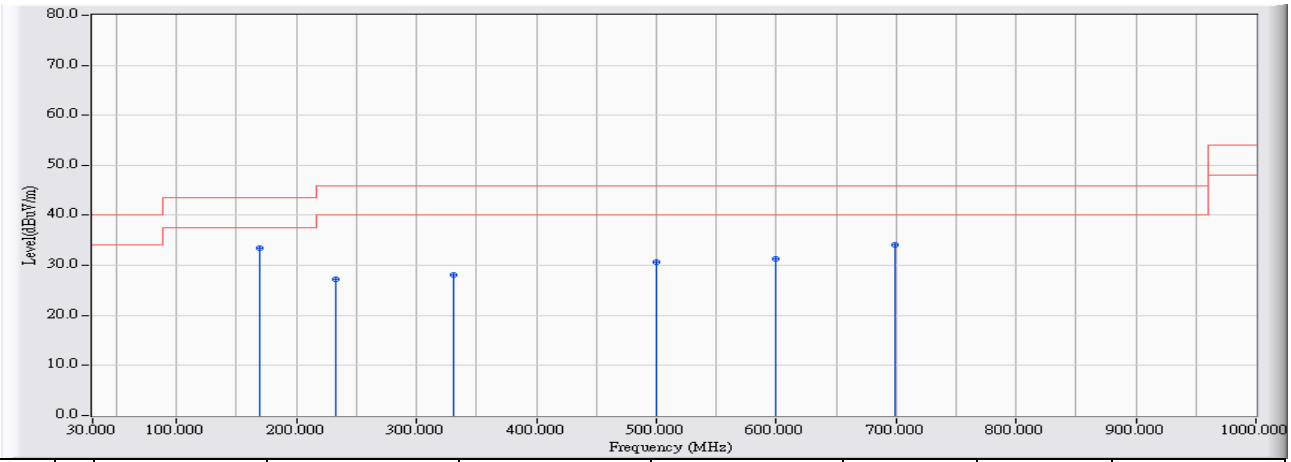
4.6. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.43dB
1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2016/08/23 - 10:22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 0**

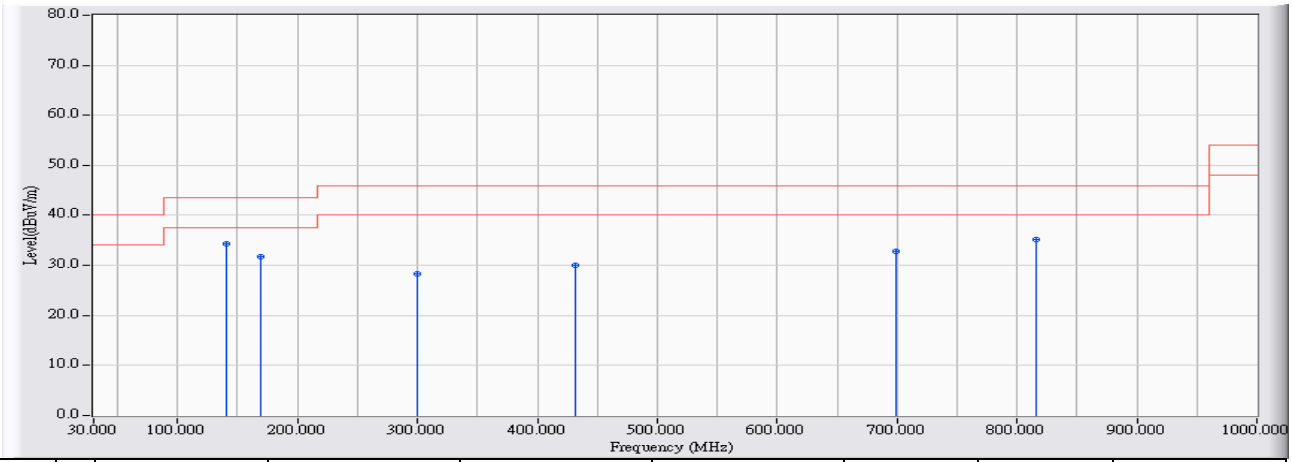


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	168.793	16.285	17.121	33.407	-10.093	43.500	QUASIPEAK
2		232.419	12.111	15.160	27.271	-18.729	46.000	QUASIPEAK
3		331.155	14.390	13.606	27.996	-18.004	46.000	QUASIPEAK
4		499.724	17.750	12.970	30.720	-15.280	46.000	QUASIPEAK
5		599.915	19.700	11.571	31.272	-14.728	46.000	QUASIPEAK
6		699.621	21.057	13.113	34.170	-11.830	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 : 2016/08/23 - 10:26**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 0**

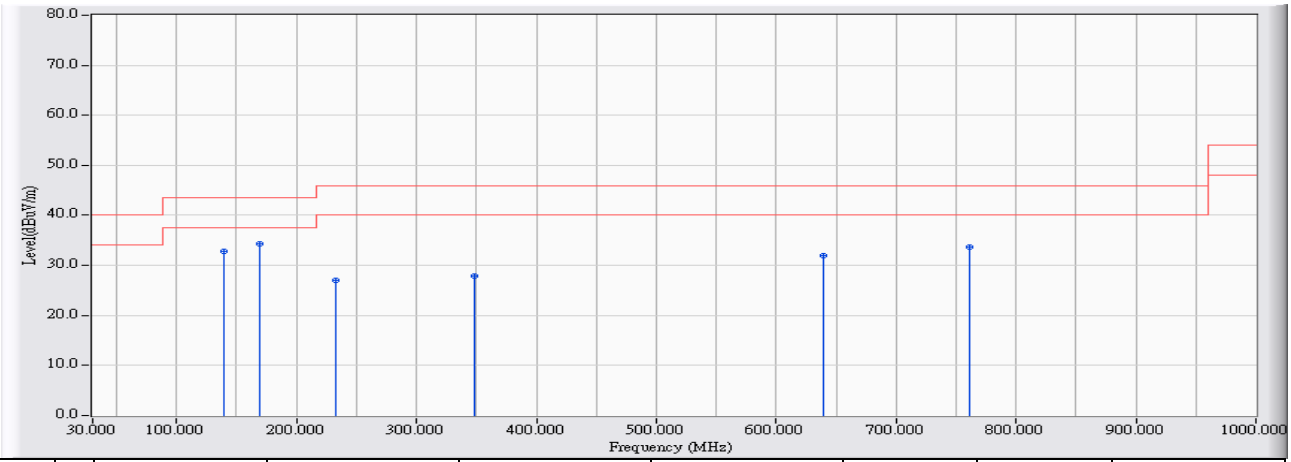


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	141.151	16.260	17.967	34.227	-9.273	43.500	QUASIPEAK
2		168.793	16.285	15.408	31.694	-11.806	43.500	QUASIPEAK
3		299.827	13.678	14.675	28.353	-17.647	46.000	QUASIPEAK
4		431.346	16.710	13.217	29.927	-16.073	46.000	QUASIPEAK
5		699.621	21.057	11.662	32.719	-13.281	46.000	QUASIPEAK
6		816.203	22.507	12.710	35.217	-10.783	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 : 2016/08/23 - 10:29**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

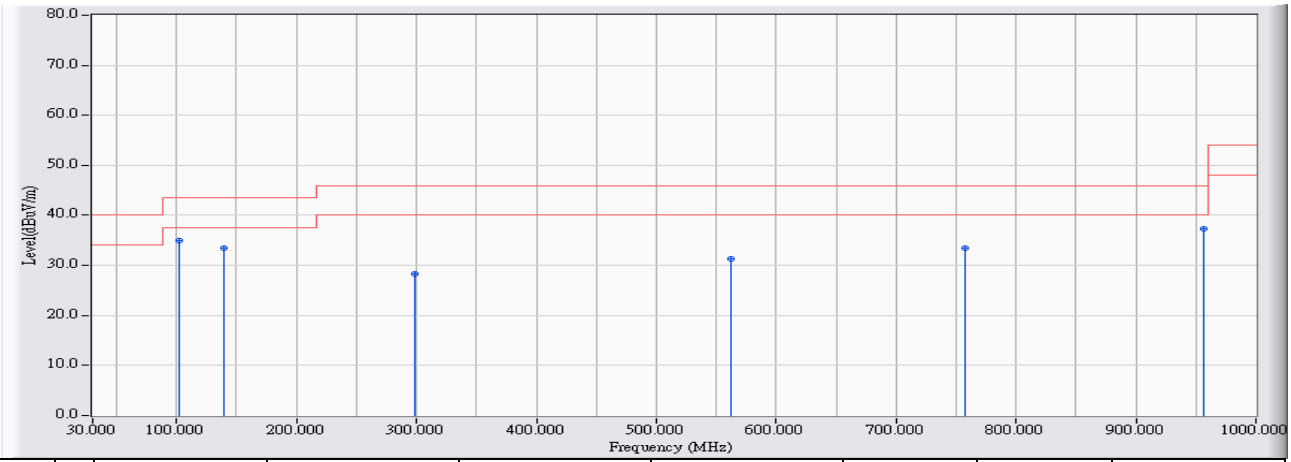


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		139.211	15.917	16.812	32.729	-10.771	43.500	QUASIPEAK
2	*	168.793	16.285	17.931	34.217	-9.283	43.500	QUASIPEAK
3		232.322	12.112	14.967	27.079	-18.921	46.000	QUASIPEAK
4		348.419	14.782	13.014	27.796	-18.204	46.000	QUASIPEAK
5		639.972	20.247	11.688	31.935	-14.065	46.000	QUASIPEAK
6		760.919	21.831	11.809	33.640	-12.360	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 : 2016/08/23 - 10:32**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

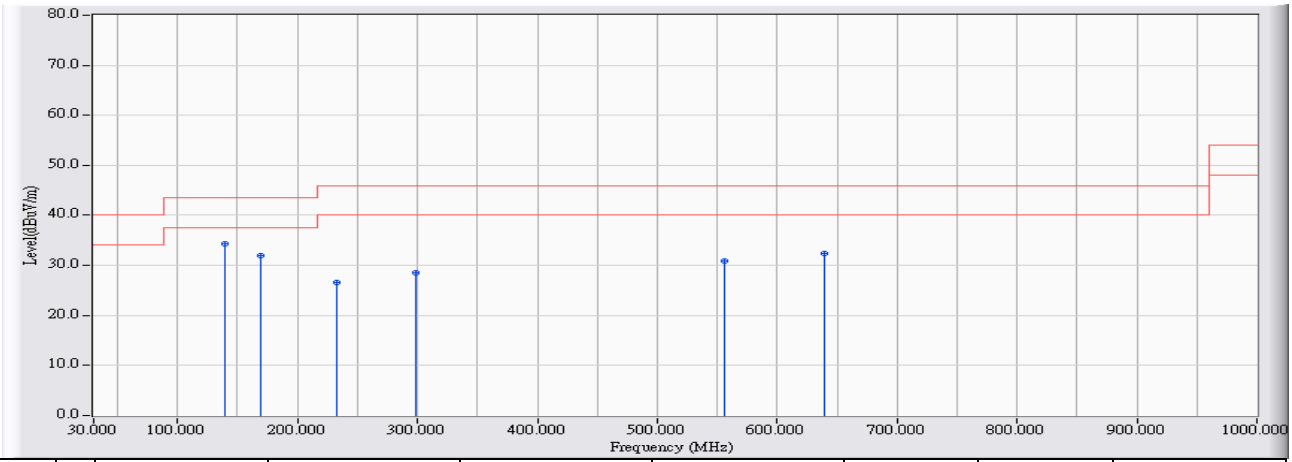


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	22.388	34.928	-8.572	43.500	QUASIPEAK
2		139.211	15.917	17.507	33.424	-10.076	43.500	QUASIPEAK
3		298.566	13.650	14.733	28.383	-17.617	46.000	QUASIPEAK
4		562.574	18.974	12.254	31.227	-14.773	46.000	QUASIPEAK
5		758.009	21.794	11.675	33.469	-12.531	46.000	QUASIPEAK
6		956.354	23.991	13.239	37.230	-8.770	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 : 2016/08/23 - 10:39**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 0**

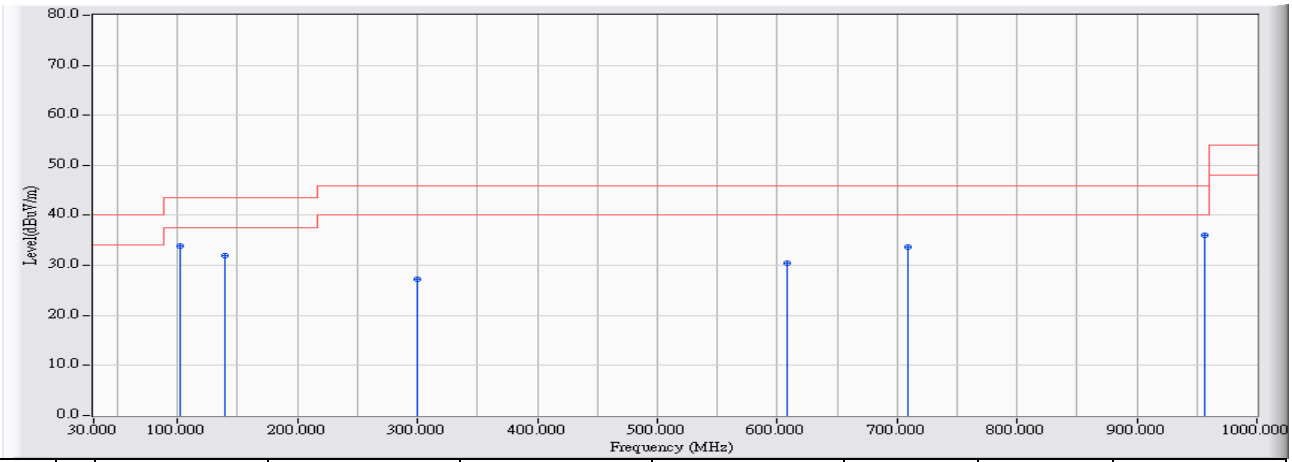


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	139.211	15.917	18.437	34.354	-9.146	43.500	QUASIPEAK
2		168.793	16.285	15.629	31.915	-11.585	43.500	QUASIPEAK
3		232.322	12.112	14.440	26.552	-19.448	46.000	QUASIPEAK
4		298.663	13.652	14.816	28.468	-17.532	46.000	QUASIPEAK
5		556.075	18.846	12.065	30.912	-15.088	46.000	QUASIPEAK
6		639.972	20.247	12.193	32.440	-13.560	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 : 2016/08/23 - 10:43**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 0**

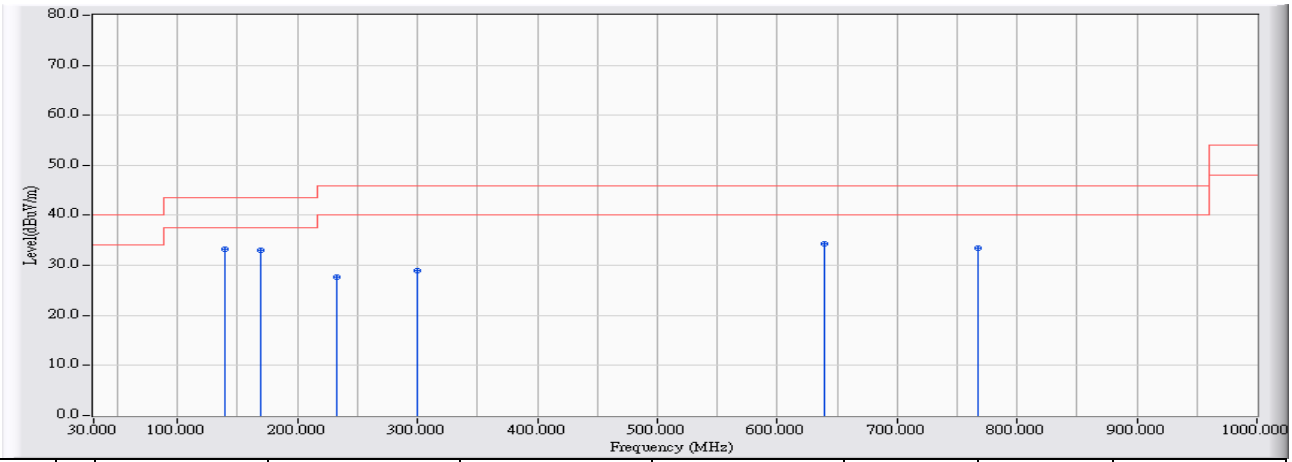


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.773	12.540	21.300	33.840	-9.660	43.500	QUASIPEAK
2		139.211	15.917	15.950	31.867	-11.633	43.500	QUASIPEAK
3		299.730	13.676	13.566	27.242	-18.758	46.000	QUASIPEAK
4		608.547	19.819	10.691	30.511	-15.489	46.000	QUASIPEAK
5		709.611	21.184	12.525	33.709	-12.291	46.000	QUASIPEAK
6		956.645	23.994	12.003	35.997	-10.003	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 : 2016/08/23 - 10:48**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 1**

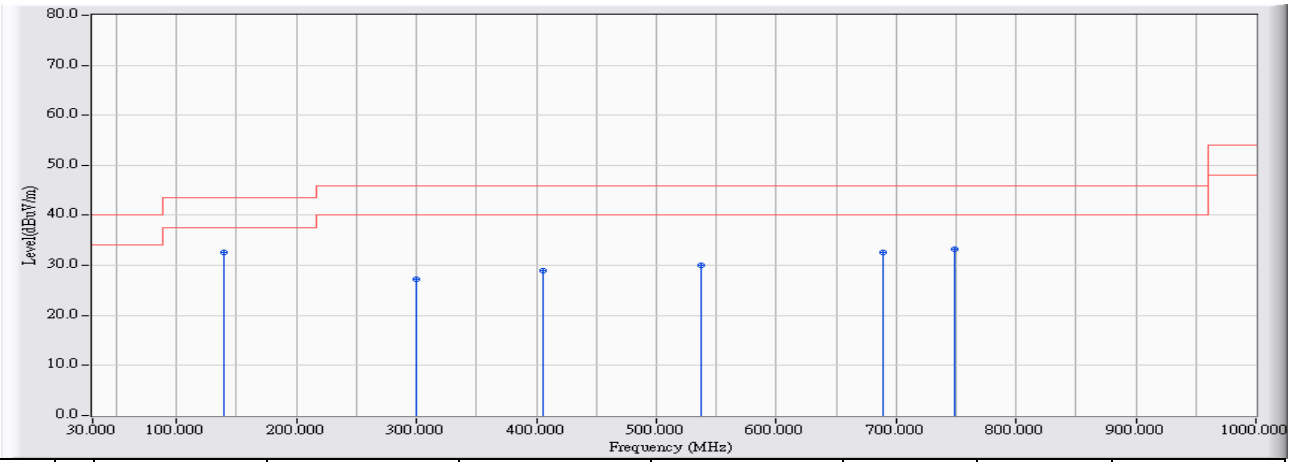


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	139.211	15.917	17.324	33.241	-10.259	43.500	QUASIPEAK
2		168.793	16.285	16.815	33.101	-10.399	43.500	QUASIPEAK
3		232.322	12.112	15.482	27.594	-18.406	46.000	QUASIPEAK
4		299.827	13.678	15.273	28.951	-17.049	46.000	QUASIPEAK
5		639.972	20.247	14.121	34.368	-11.632	46.000	QUASIPEAK
6		767.805	21.918	11.622	33.540	-12.460	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 : 2016/08/23 - 10:53**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 1**

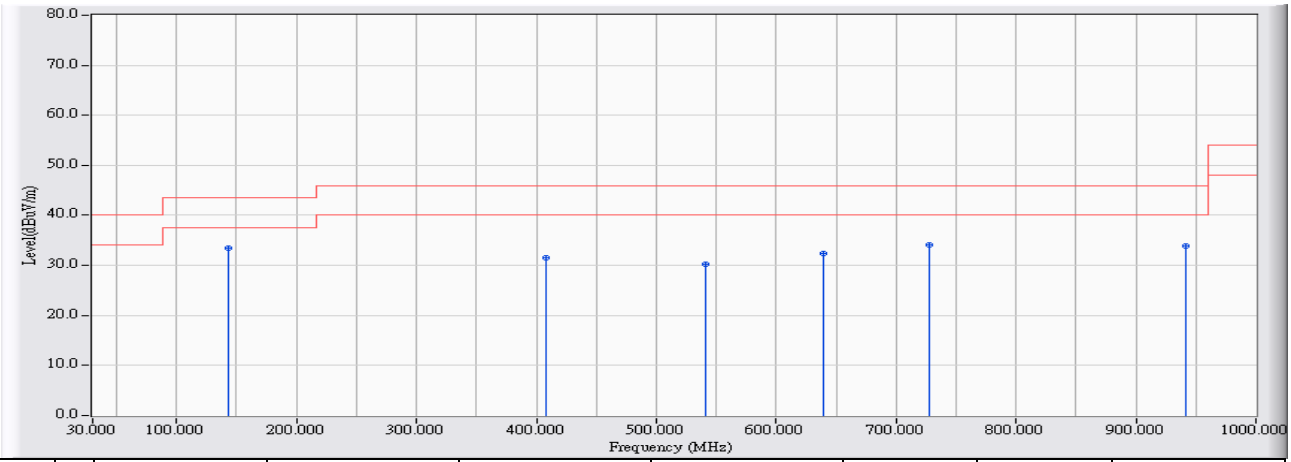


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	139.211	15.917	16.662	32.579	-10.921	43.500	QUASIPEAK
2		299.827	13.678	13.593	27.271	-18.729	46.000	QUASIPEAK
3		405.643	16.099	12.932	29.031	-16.969	46.000	QUASIPEAK
4		537.647	18.487	11.498	29.985	-16.015	46.000	QUASIPEAK
5		689.243	20.916	11.683	32.599	-13.401	46.000	QUASIPEAK
6		748.601	21.676	11.491	33.166	-12.834	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 : 2016/09/07 - 11:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2437MHz**

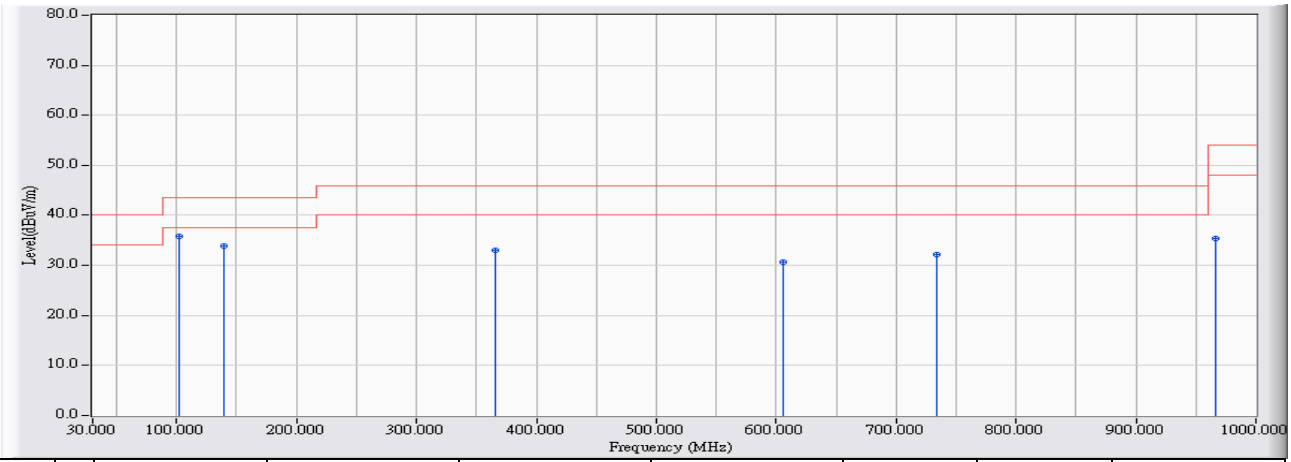


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.188	16.609	16.931	33.540	-9.960	43.500	QUASIPEAK
2		408.165	16.159	15.338	31.497	-14.503	46.000	QUASIPEAK
3		541.430	18.560	11.593	30.154	-15.846	46.000	QUASIPEAK
4		639.972	20.247	12.243	32.490	-13.510	46.000	QUASIPEAK
5		728.039	21.416	12.760	34.176	-11.824	46.000	QUASIPEAK
6		941.418	23.849	10.052	33.900	-12.100	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 : 2016/09/07 - 11:43**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2437MHz**

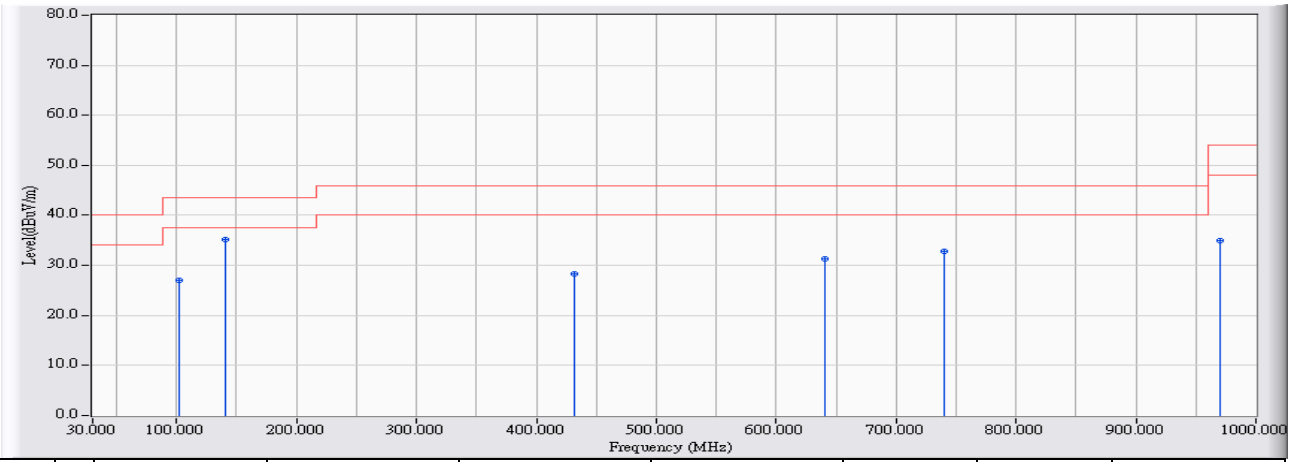


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.870	12.540	23.300	35.840	-7.660	43.500	QUASIPEAK
2		139.211	15.917	17.938	33.855	-9.645	43.500	QUASIPEAK
3		365.586	15.176	17.913	33.089	-12.911	46.000	QUASIPEAK
4		605.928	19.784	10.969	30.753	-15.247	46.000	QUASIPEAK
5		733.568	21.485	10.771	32.257	-13.743	46.000	QUASIPEAK
6		966.635	24.090	11.218	35.308	-18.692	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 : 2016/09/07 - 11:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**

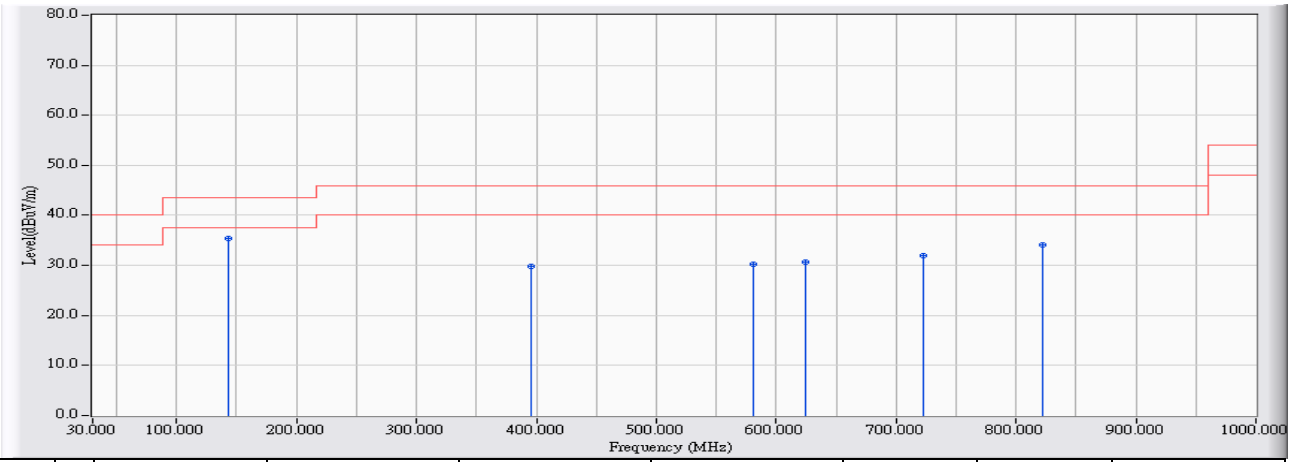


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.870	12.540	14.439	26.979	-16.521	43.500	QUASIPEAK
2	*	141.151	16.260	18.945	35.205	-8.295	43.500	QUASIPEAK
3		431.152	16.705	11.502	28.207	-17.793	46.000	QUASIPEAK
4		640.069	20.248	10.992	31.240	-14.760	46.000	QUASIPEAK
5		740.260	21.570	11.177	32.747	-13.253	46.000	QUASIPEAK
6		969.642	24.119	10.773	34.892	-19.108	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 : 2016/09/07 - 11:47**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**



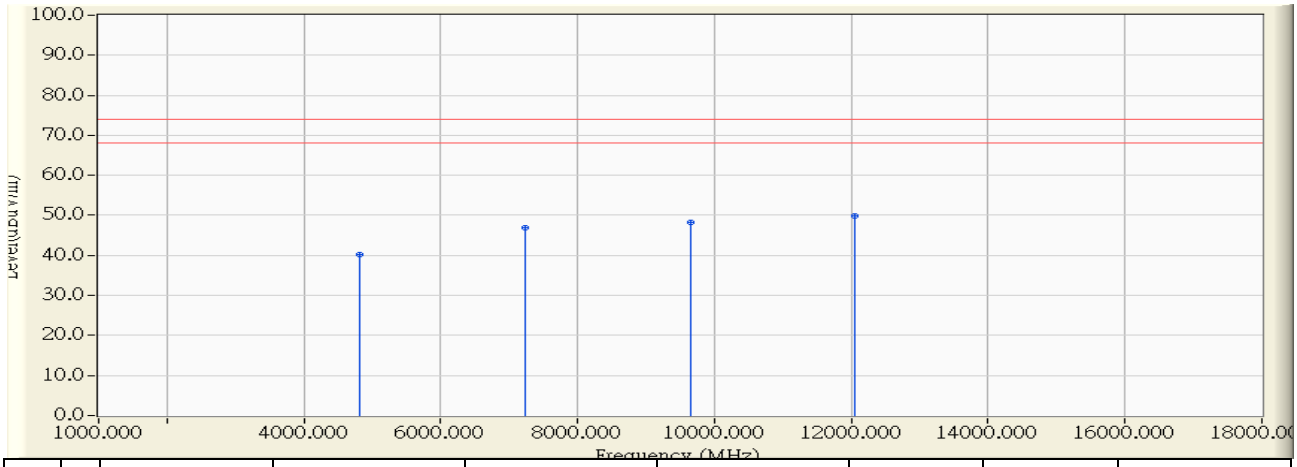
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.188	16.609	18.771	35.380	-8.120	43.500	QUASIPEAK
2		395.265	15.856	13.914	29.770	-16.230	46.000	QUASIPEAK
3		580.517	19.324	10.957	30.280	-15.720	46.000	QUASIPEAK
4		624.454	20.035	10.618	30.654	-15.346	46.000	QUASIPEAK
5		723.093	21.354	10.518	31.872	-14.128	46.000	QUASIPEAK
6		822.411	22.577	11.625	34.202	-11.798	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 : 2016/08/24 - 17:30**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2412MHz_Ant 0**

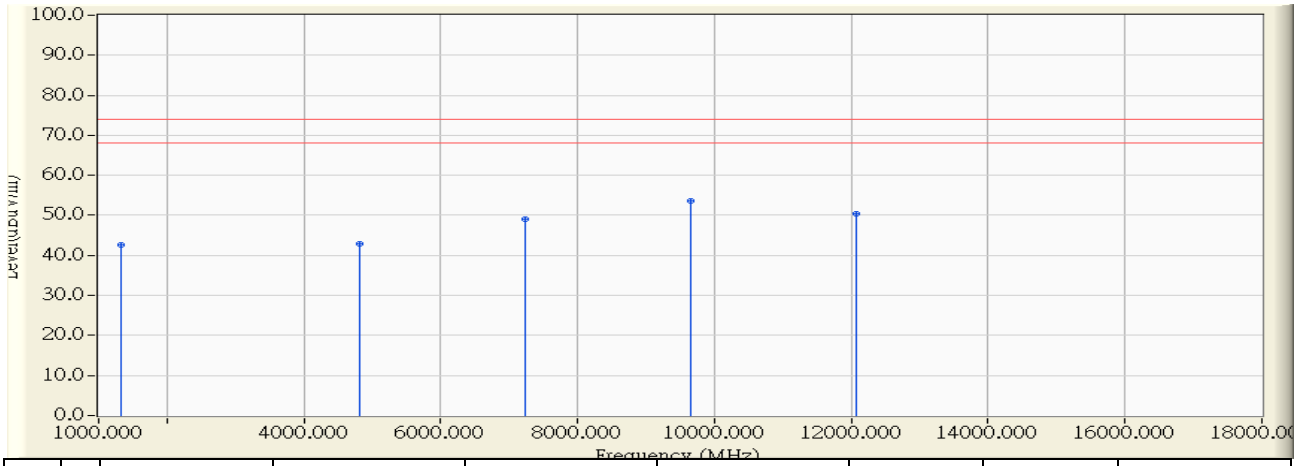


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4823.000	-2.562	42.670	40.108	-33.892	74.000	PEAK
2		7233.000	5.920	41.130	47.050	-26.950	74.000	PEAK
3		9648.000	7.659	40.470	48.129	-25.871	74.000	PEAK
4	*	12042.000	10.359	39.430	49.789	-24.211	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 : 2016/08/24 - 18:03**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2412MHz_Ant 0**

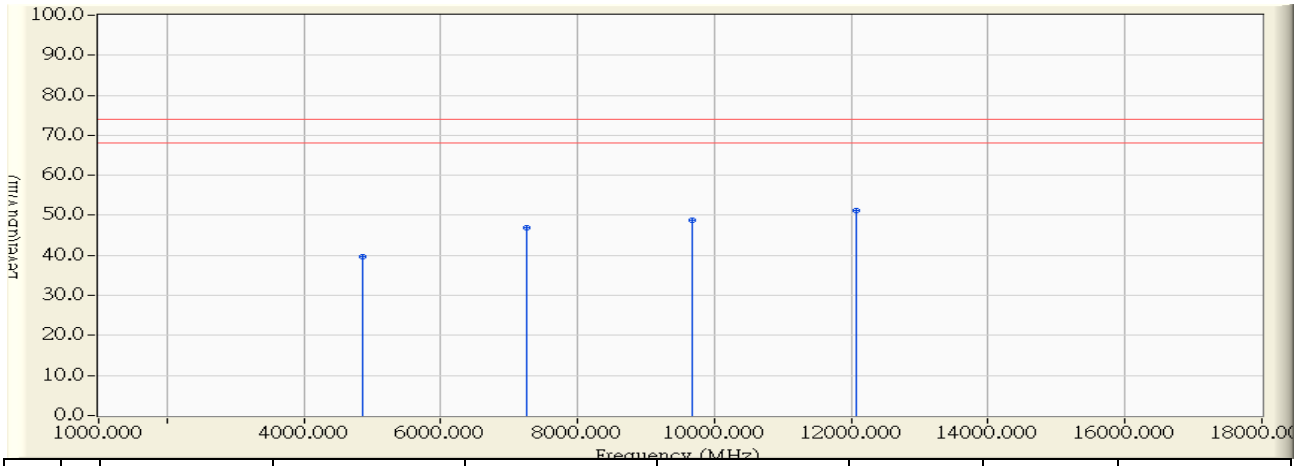


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	52.130	42.664	-31.336	74.000	PEAK
2		4824.000	-1.662	44.500	42.838	-31.162	74.000	PEAK
3		7234.000	5.422	43.620	49.042	-24.958	74.000	PEAK
4	*	9647.000	7.158	46.490	53.647	-20.353	74.000	PEAK
5		12061.000	9.914	40.380	50.294	-23.706	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 : 2016/08/24 - 18:35**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 0**

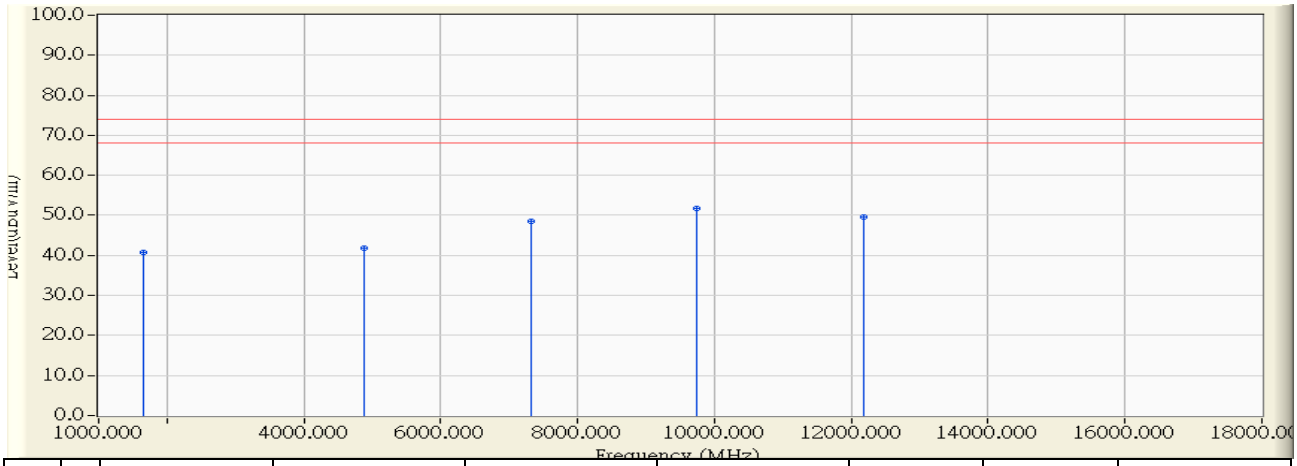


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4857.000	-2.471	42.240	39.769	-34.231	74.000	PEAK
2		7261.000	5.975	40.860	46.835	-27.165	74.000	PEAK
3		9669.000	7.772	41.020	48.792	-25.208	74.000	PEAK
4	*	12079.000	9.911	41.220	51.131	-22.869	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 : 2016/08/24 - 19:00**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 0**

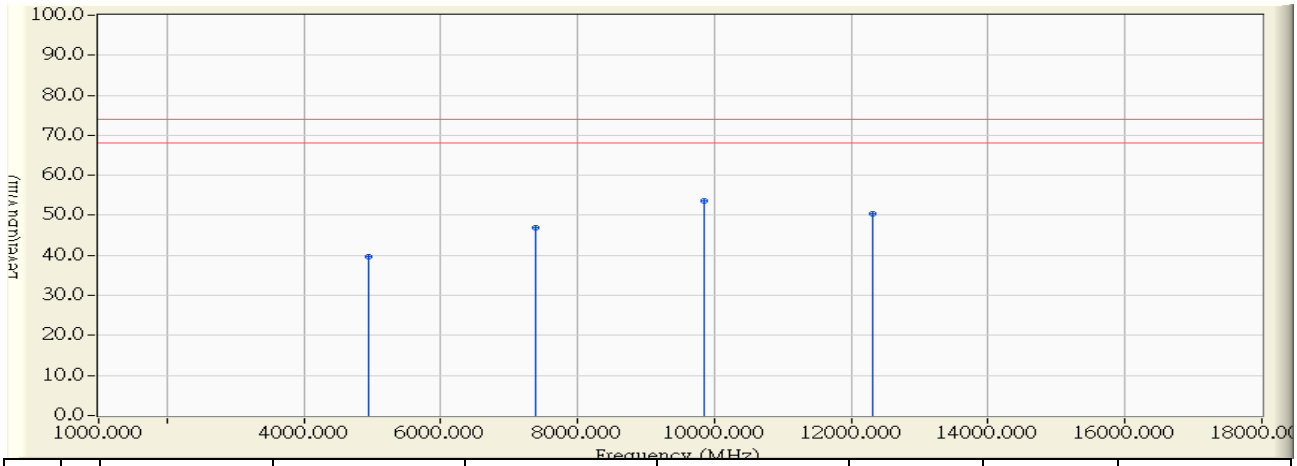


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1663.000	-9.315	49.970	40.655	-33.345	74.000	PEAK
2		4874.000	-1.653	43.390	41.737	-32.263	74.000	PEAK
3		7312.000	5.575	42.830	48.405	-25.595	74.000	PEAK
4	*	9748.000	7.552	44.100	51.653	-22.347	74.000	PEAK
5		12186.000	9.889	39.690	49.580	-24.420	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 : 2016/08/24 - 19:30**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2462MHz_Ant 0**

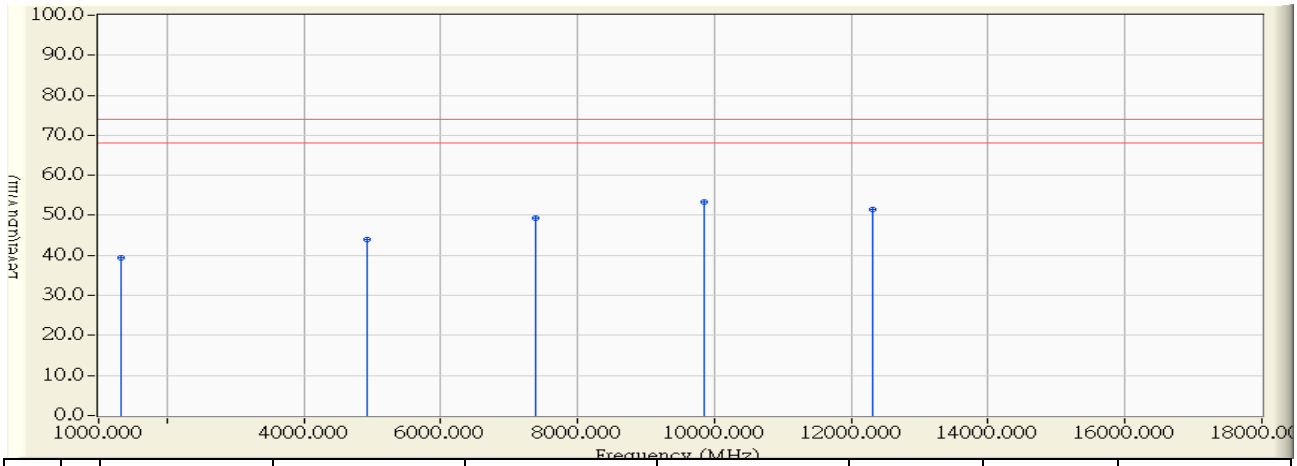


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4935.000	-2.262	42.030	39.768	-34.232	74.000	PEAK
2		7377.000	6.203	40.730	46.933	-27.067	74.000	PEAK
3	*	9847.000	8.737	44.830	53.566	-20.434	74.000	PEAK
4		12310.000	9.867	40.660	50.526	-23.474	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 : 2016/08/24 - 19:56**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2462MHz_Ant 0**

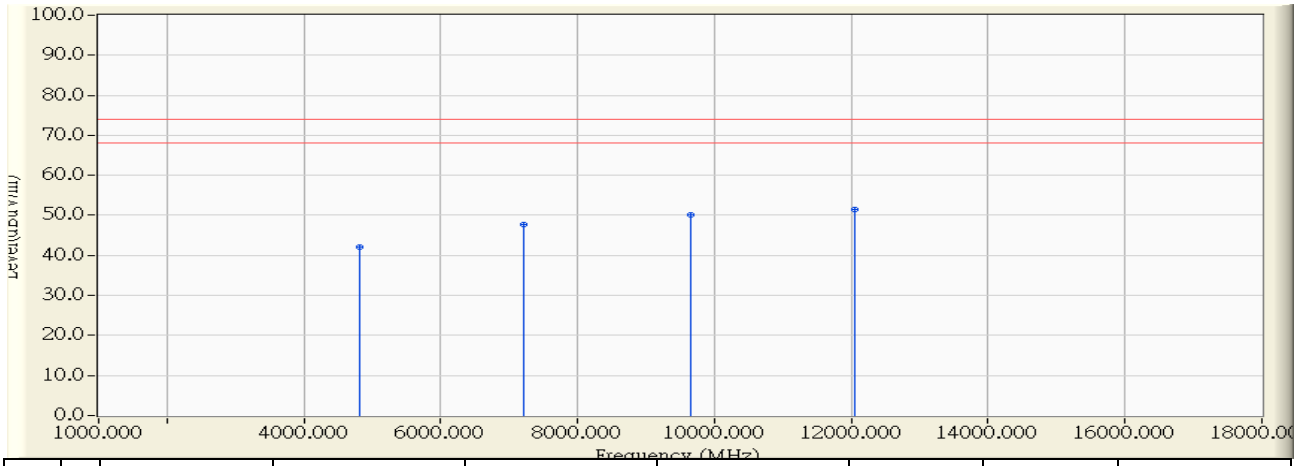


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1333.000	-9.462	48.990	39.528	-34.472	74.000	PEAK
2		4923.000	32.868	45.670	44.026	-29.974	74.000	PEAK
3		7386.000	40.502	43.550	49.271	-24.729	74.000	PEAK
4	*	9847.000	42.795	45.490	53.430	-20.570	74.000	PEAK
5		12307.000	43.807	41.600	51.467	-22.533	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 : 2016/08/24 - 20:16**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2412MHz_Ant 1**

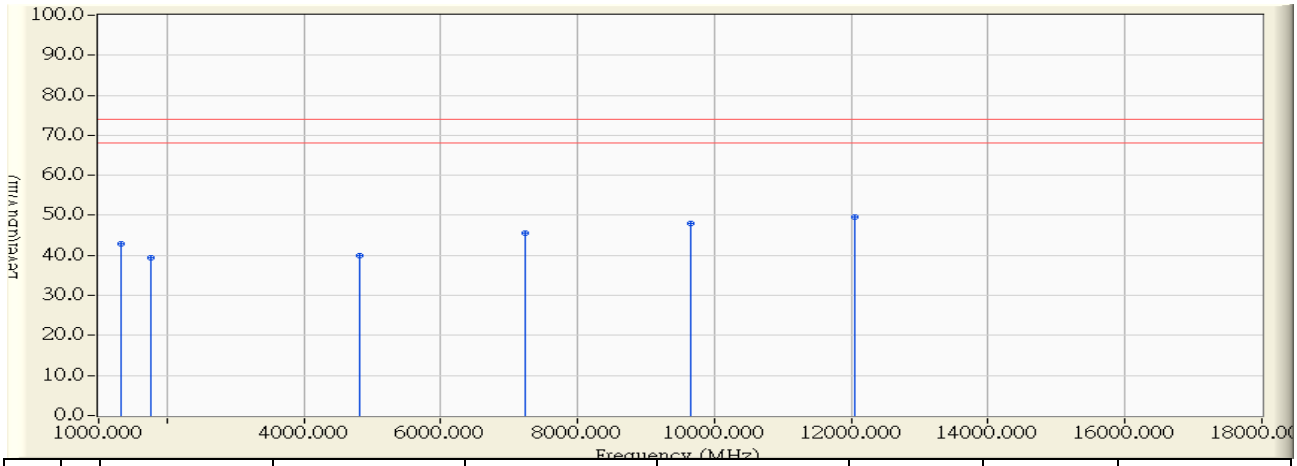


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4818.000	-2.576	44.550	41.974	-32.026	74.000	PEAK
2		7221.000	5.896	41.870	47.766	-26.234	74.000	PEAK
3		9660.000	7.724	42.360	50.084	-23.916	74.000	PEAK
4	*	12047.000	10.352	41.220	51.573	-22.427	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 : 2016/08/24 - 20:25**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2412MHz_Ant 1**

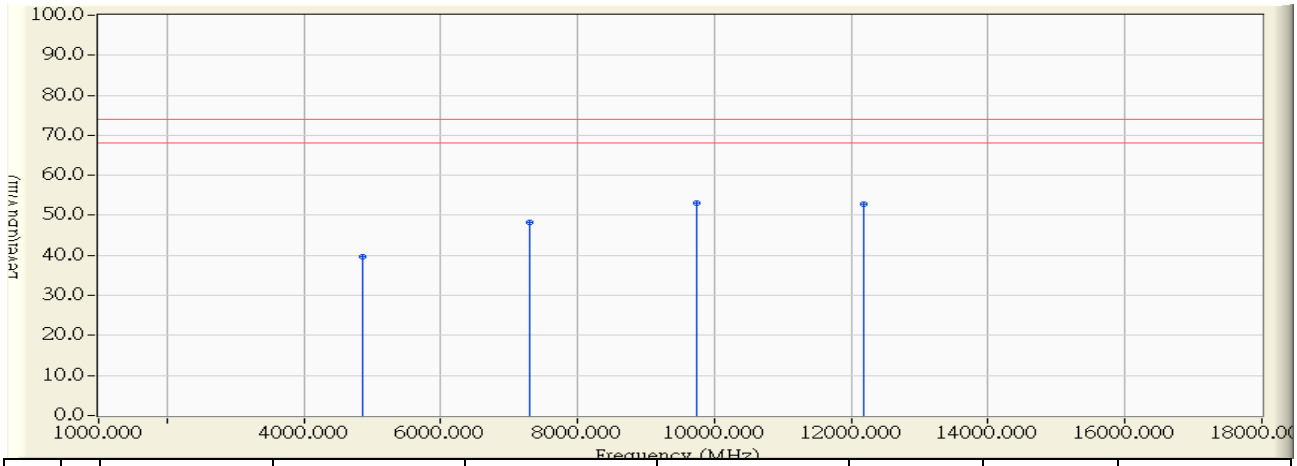


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	52.370	42.904	-31.096	74.000	PEAK
2		1756.000	-9.384	48.730	39.345	-34.655	74.000	PEAK
3		4824.000	-1.662	41.580	39.918	-34.082	74.000	PEAK
4		7224.000	5.403	40.130	45.532	-28.468	74.000	PEAK
5		9660.000	7.209	40.880	48.088	-25.912	74.000	PEAK
6	*	12049.000	9.917	39.640	49.556	-24.444	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 : 2016/08/24 - 20:47**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

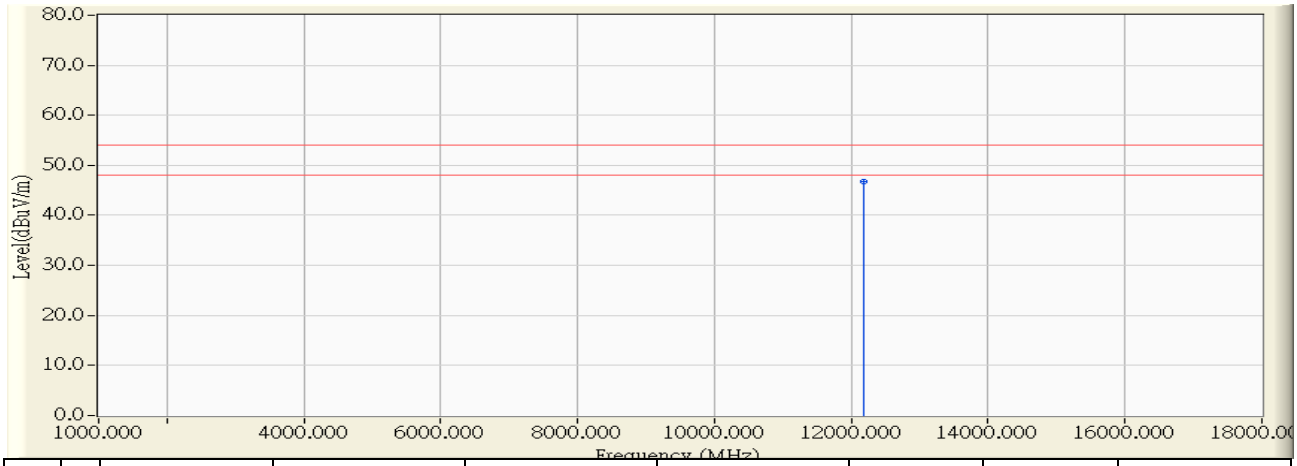


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4860.000	-2.463	42.160	39.697	-34.303	74.000	PEAK
2		7307.000	6.065	42.260	48.326	-25.674	74.000	PEAK
3	*	9747.000	8.195	44.770	52.965	-21.035	74.000	PEAK
4		12184.000	10.189	42.540	52.729	-21.271	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 : 2016/08/24 - 20:49**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

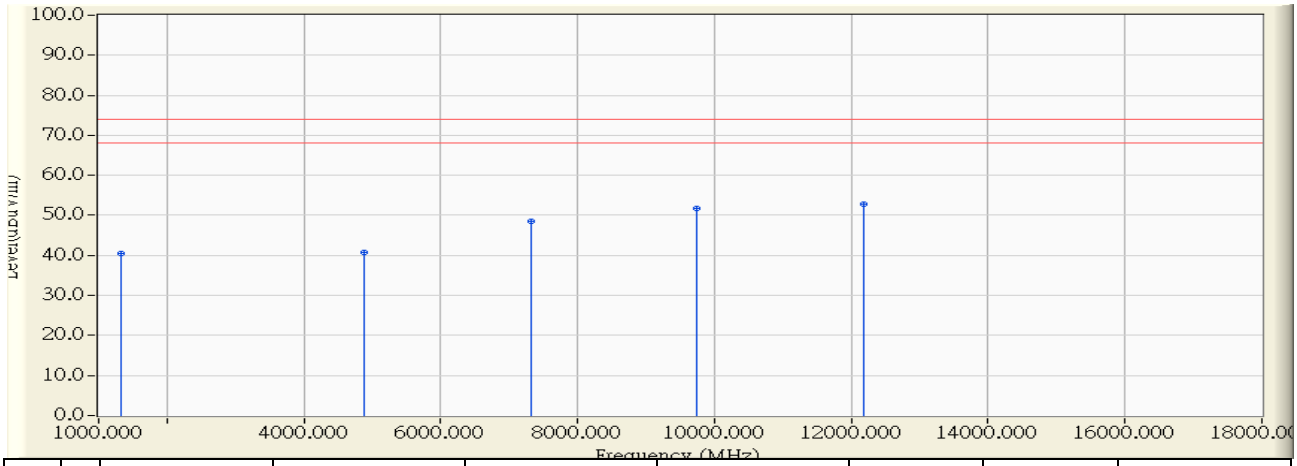


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	12184.000	10.189	36.650	46.839	-7.161	54.000	AVERAGE

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 : 2016/08/24 - 20:54**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

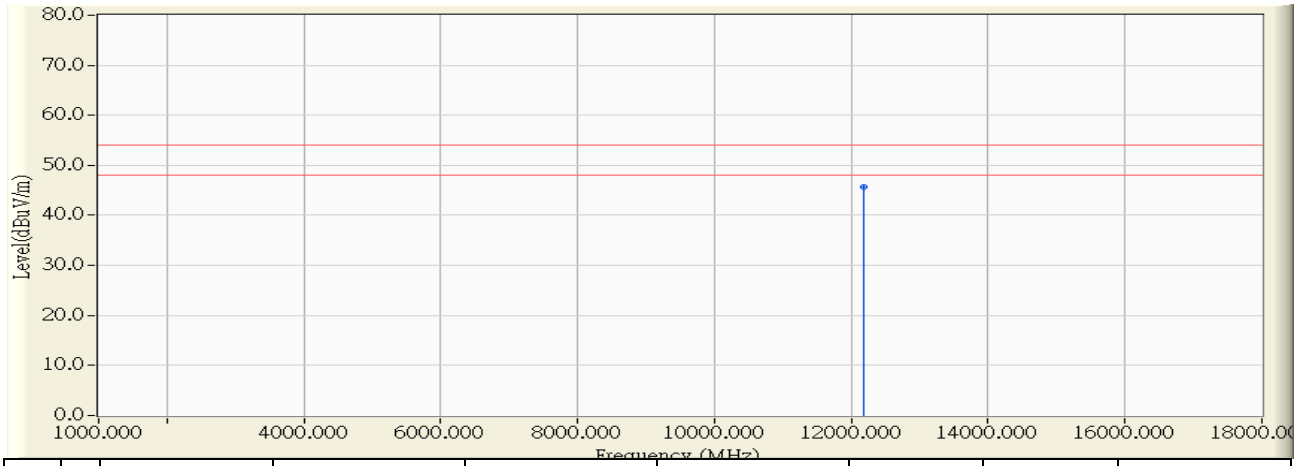


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	49.860	40.394	-33.606	74.000	PEAK
2		4873.000	-1.653	42.360	40.707	-33.293	74.000	PEAK
3		7311.000	5.573	42.990	48.563	-25.437	74.000	PEAK
4		9748.000	7.552	44.230	51.783	-22.217	74.000	PEAK
5	*	12185.000	9.890	42.910	52.800	-21.200	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 : 2016/08/24 - 20:56**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2437MHz_Ant 1**

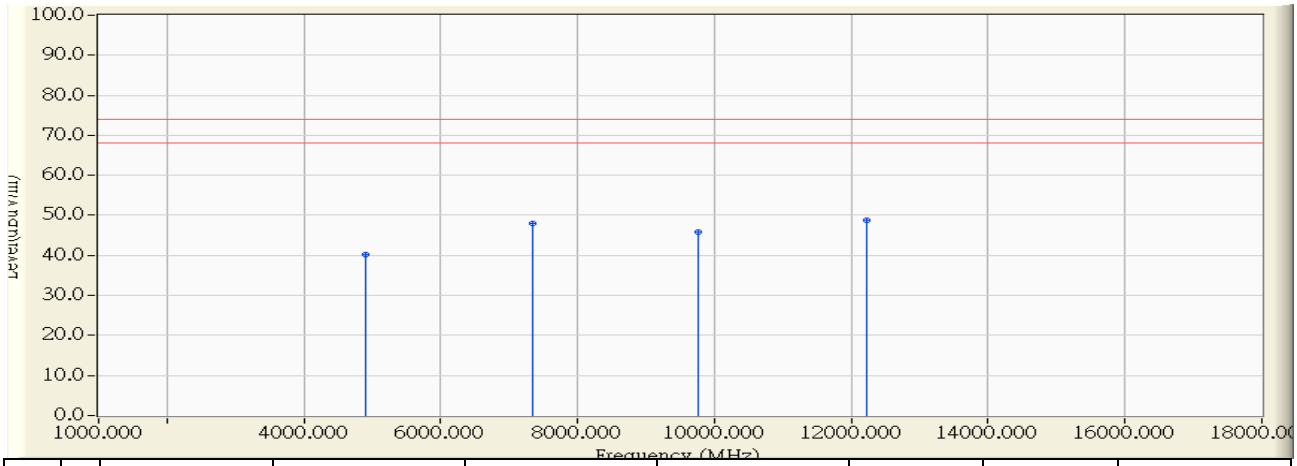


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	12185.000	9.890	35.870	45.760	-8.240	54.000	AVERAGE

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 : 2016/08/24 - 21:22**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2462MHz_Ant 1**

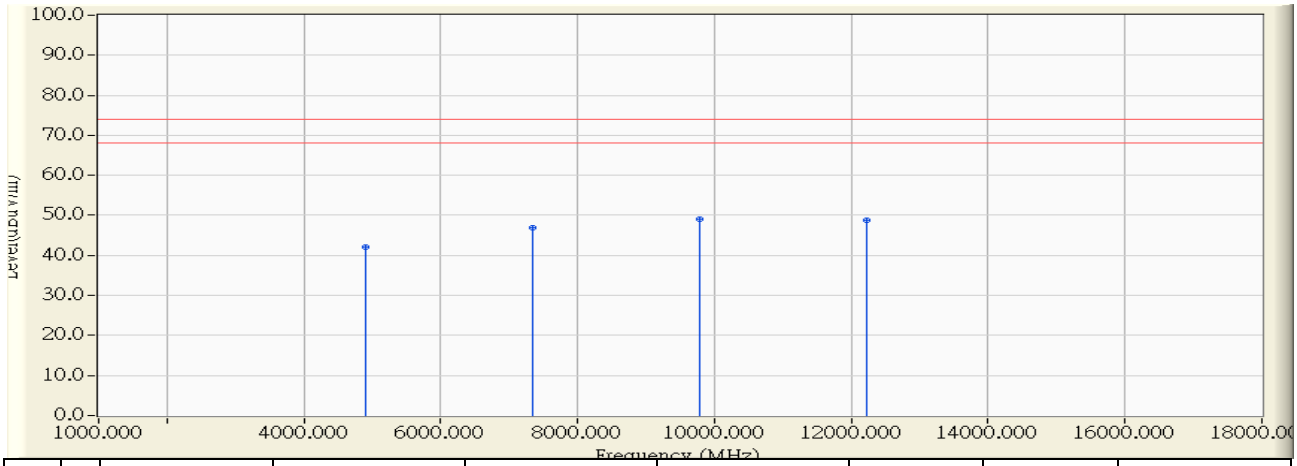


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4907.000	-2.337	42.540	40.203	-33.797	74.000	PEAK
2		7334.000	6.119	41.880	47.999	-26.001	74.000	PEAK
3		9771.000	8.325	37.560	45.885	-28.115	74.000	PEAK
4	*	12216.000	10.151	38.610	48.761	-25.239	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 : 2016/08/24 - 21:27**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b_2462MHz_Ant 1**

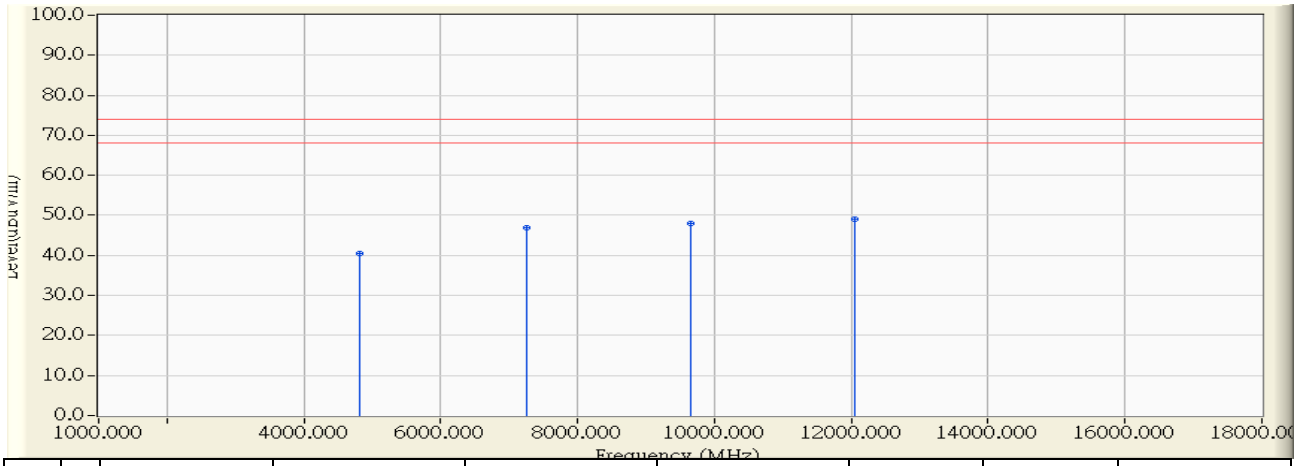


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4912.000	-1.645	43.690	42.044	-31.956	74.000	PEAK
2		7344.000	5.639	41.220	46.858	-27.142	74.000	PEAK
3	*	9780.000	7.679	41.330	49.008	-24.992	74.000	PEAK
4		12224.000	9.883	39.010	48.893	-25.107	74.000	PEAK

Note:

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

Site : CB1	**Time : 2016/08/24 - 21:38**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2412MHz_Ant 0**

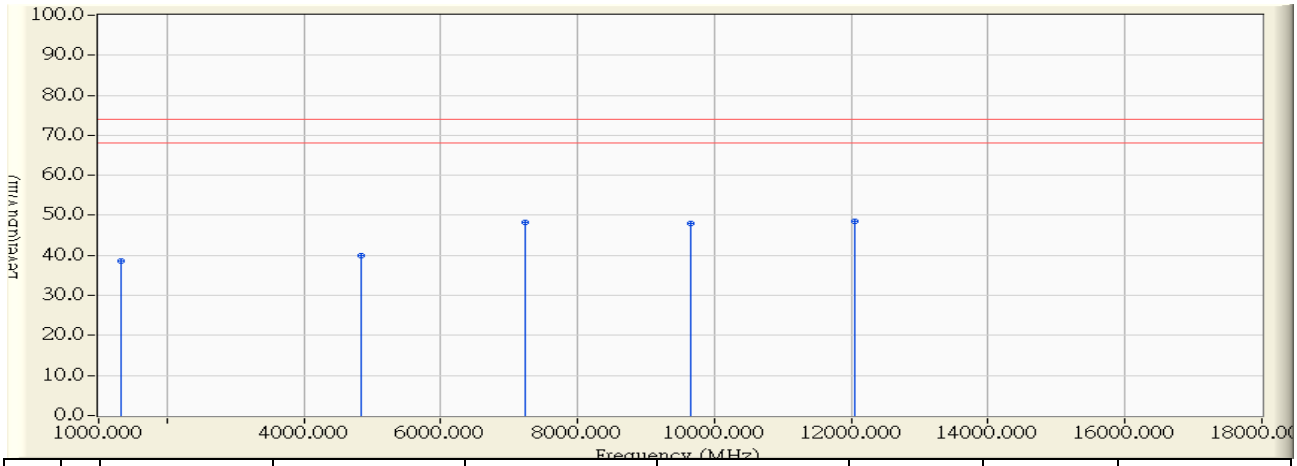


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4820.000	-2.570	43.030	40.460	-33.540	74.000	PEAK
2		7249.000	5.952	41.000	46.952	-27.048	74.000	PEAK
3		9661.000	7.729	40.210	47.939	-26.061	74.000	PEAK
4	*	12049.000	10.351	38.710	49.060	-24.940	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 : 2016/08/24 - 21:49**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2412MHz_Ant 0**

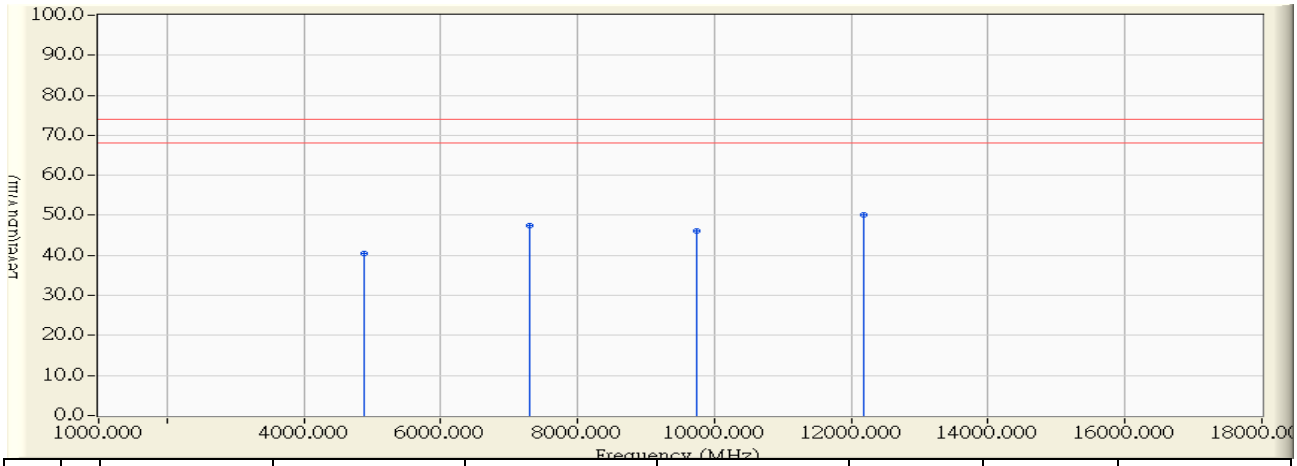


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	48.110	38.644	-35.356	74.000	PEAK
2		4826.000	-1.661	41.600	39.938	-34.062	74.000	PEAK
3		7232.000	5.418	42.910	48.328	-25.672	74.000	PEAK
4		9653.000	7.181	40.680	47.861	-26.139	74.000	PEAK
5	*	12058.000	9.914	38.510	48.425	-25.575	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 : 2016/08/24 - 21:56**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 0**

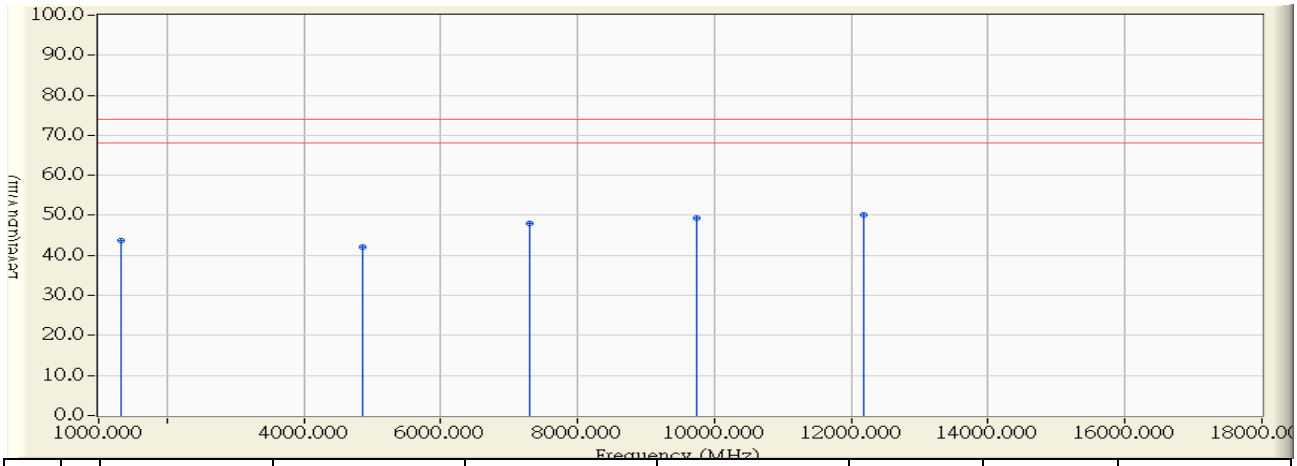


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4887.000	-2.390	42.930	40.540	-33.460	74.000	PEAK
2		7302.000	6.056	41.290	47.346	-26.654	74.000	PEAK
3		9739.000	8.151	37.990	46.142	-27.858	74.000	PEAK
4	*	12179.000	10.196	39.880	50.075	-23.925	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 : 2016/08/24 - 22:05**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 0**

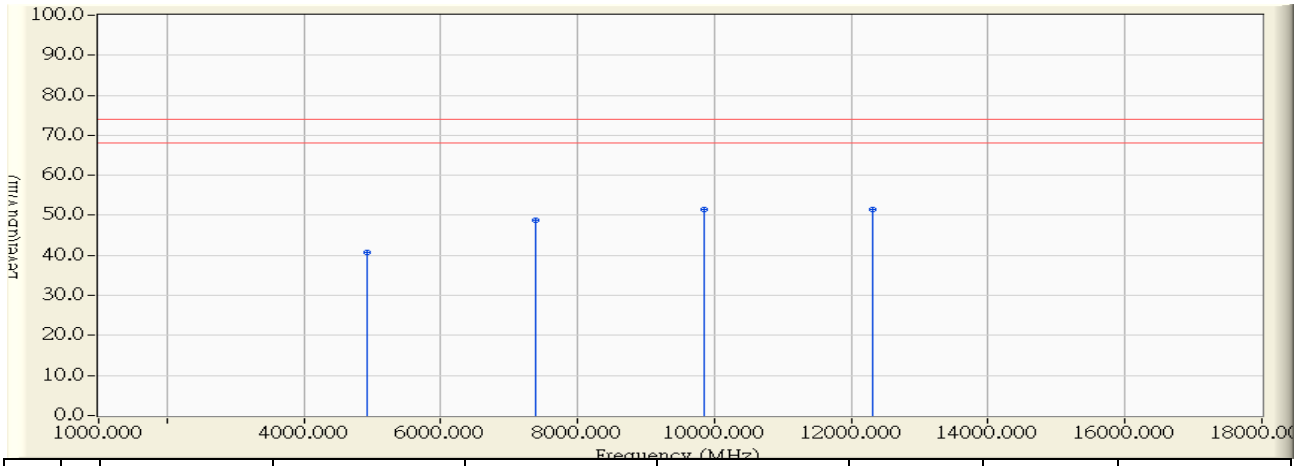


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	53.100	43.634	-30.366	74.000	PEAK
2		4866.000	-1.654	43.850	42.196	-31.804	74.000	PEAK
3		7303.000	5.558	42.560	48.118	-25.882	74.000	PEAK
4		9733.000	7.494	41.850	49.344	-24.656	74.000	PEAK
5	*	12176.000	9.891	40.330	50.222	-23.778	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 : 2016/08/24 - 22:16**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2462MHz_Ant 0**

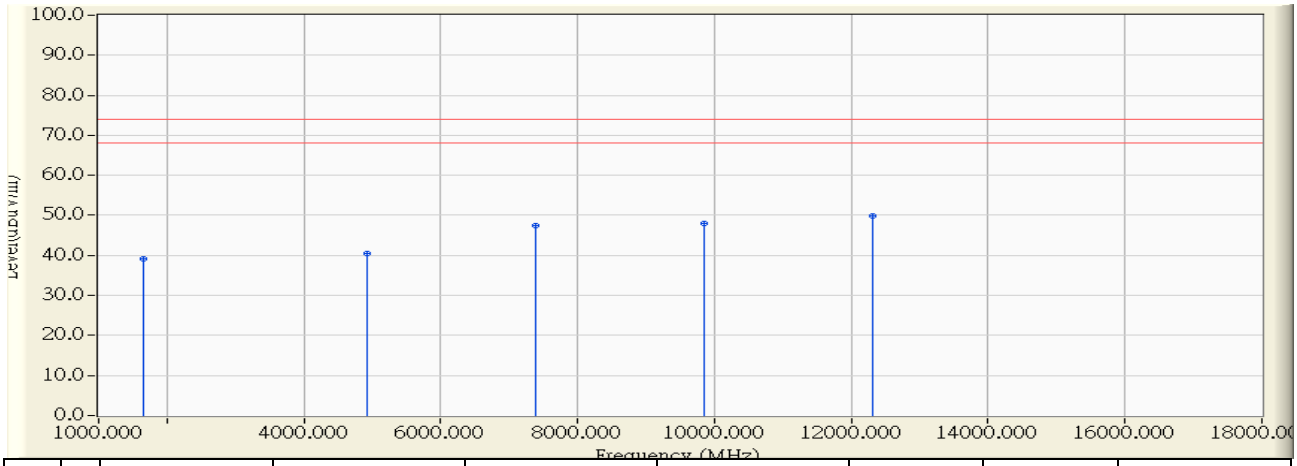


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4933.000	-2.267	42.910	40.643	-33.357	74.000	PEAK
2		7383.000	6.215	42.640	48.855	-25.145	74.000	PEAK
3	*	9842.000	8.710	42.880	51.589	-22.411	74.000	PEAK
4		12313.000	9.866	41.680	51.546	-22.454	74.000	PEAK

Note:

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

Site : CB1	**Time : 2016/08/24 - 22:37**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2462MHz_Ant 0**

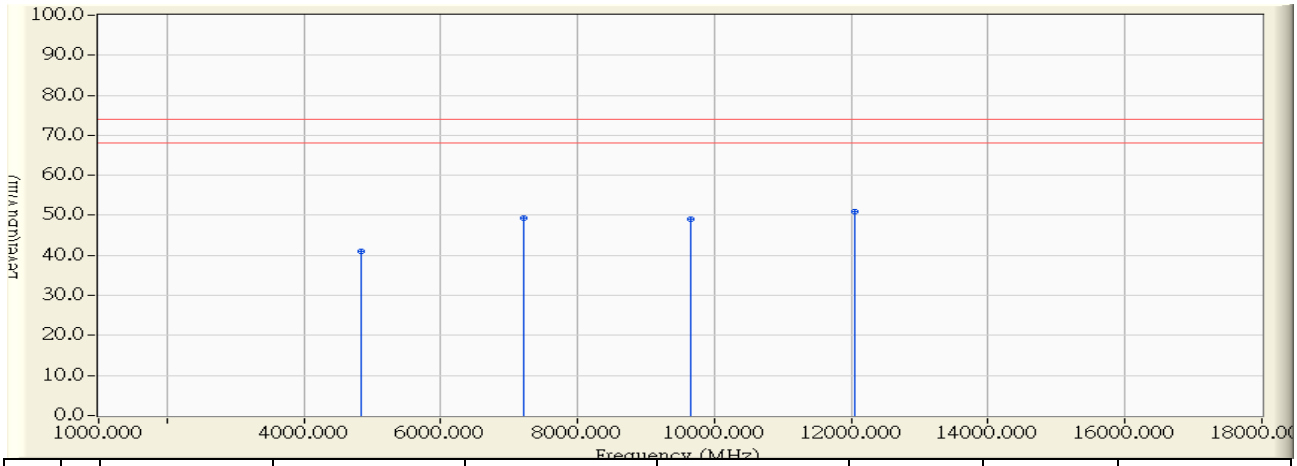


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1663.000	-9.315	48.330	39.015	-34.985	74.000	PEAK
2		4926.000	-1.643	42.170	40.527	-33.473	74.000	PEAK
3		7380.000	5.710	41.800	47.509	-26.491	74.000	PEAK
4		9843.000	7.925	40.050	47.975	-26.025	74.000	PEAK
5	*	12308.000	9.867	39.970	49.837	-24.163	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 : 2016/08/24 - 22:49**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2412MHz_Ant 1**

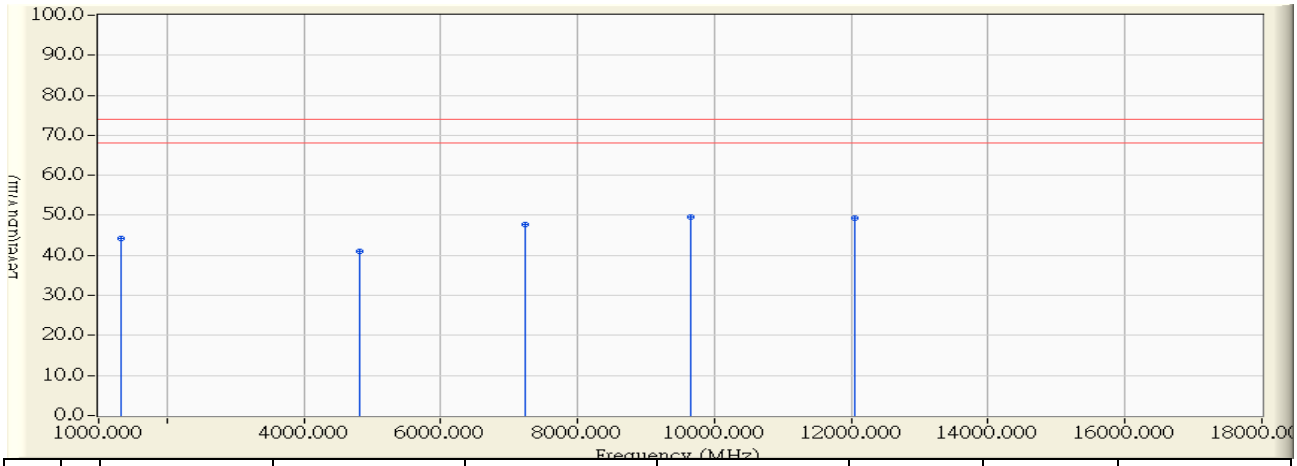


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4832.000	31.992	43.480	40.942	-33.058	74.000	PEAK
2		7221.000	40.644	43.480	49.376	-24.624	74.000	PEAK
3		9655.000	42.628	41.330	49.027	-24.973	74.000	PEAK
4	*	12059.000	10.339	40.690	51.028	-22.972	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 : 2016/08/24 - 22:59**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2412MHz_Ant 1**

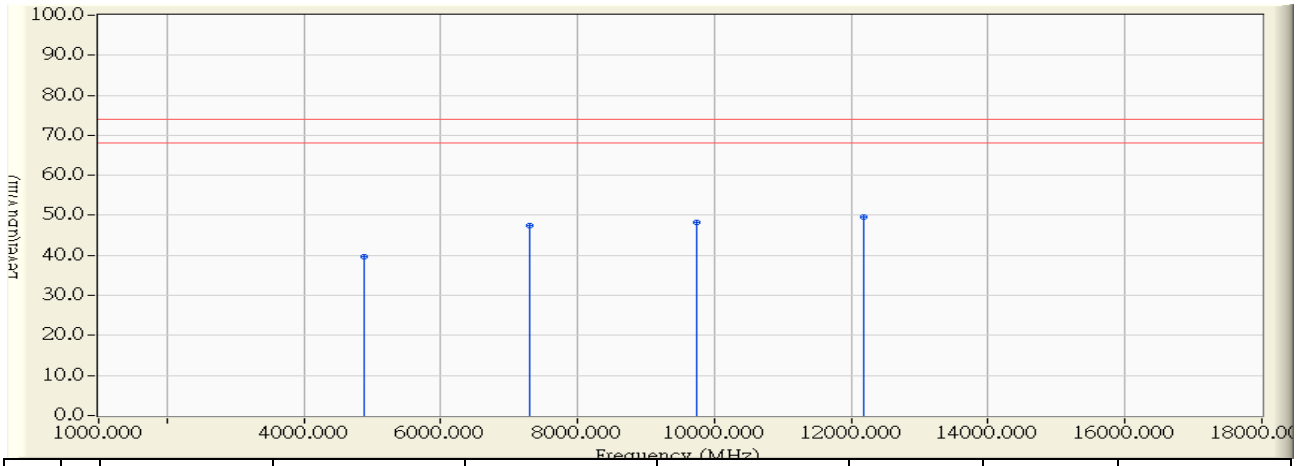


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1331.000	-9.466	53.580	44.114	-29.886	74.000	PEAK
2		4821.000	-1.663	42.650	40.987	-33.013	74.000	PEAK
3		7225.000	5.405	42.330	47.734	-26.266	74.000	PEAK
4	*	9647.000	7.158	42.330	49.487	-24.513	74.000	PEAK
5		12059.000	9.915	39.330	49.244	-24.756	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 : 2016/08/24 - 23:14**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 1**

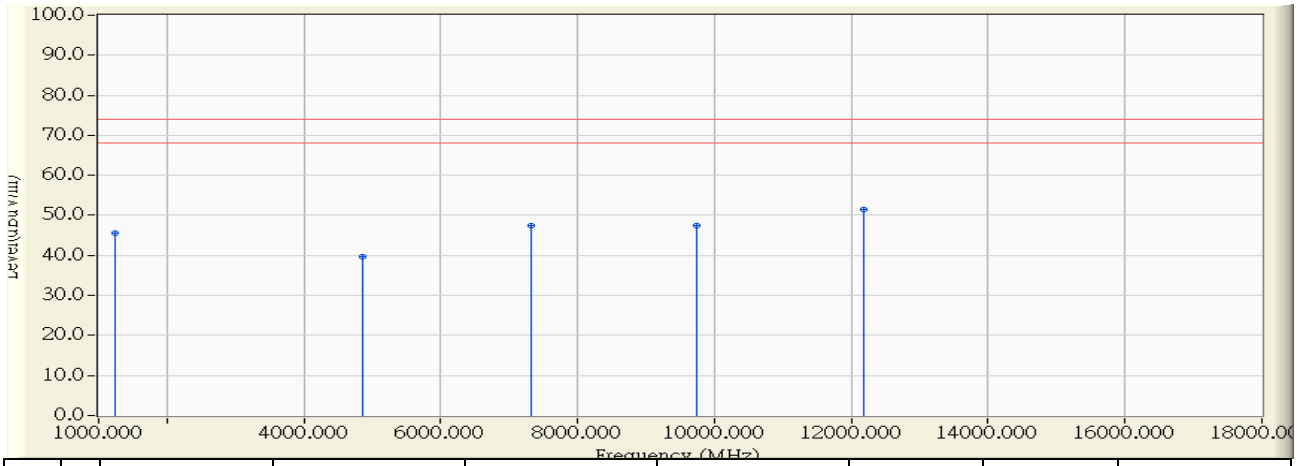


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4869.000	-2.439	42.170	39.731	-34.269	74.000	PEAK
2		7307.000	6.065	41.410	47.476	-26.524	74.000	PEAK
3		9739.000	7.517	40.650	48.168	-25.832	74.000	PEAK
4	*	12178.000	9.891	39.660	49.552	-24.448	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 : 2016/08/24 - 23:37**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2437MHz_Ant 1**

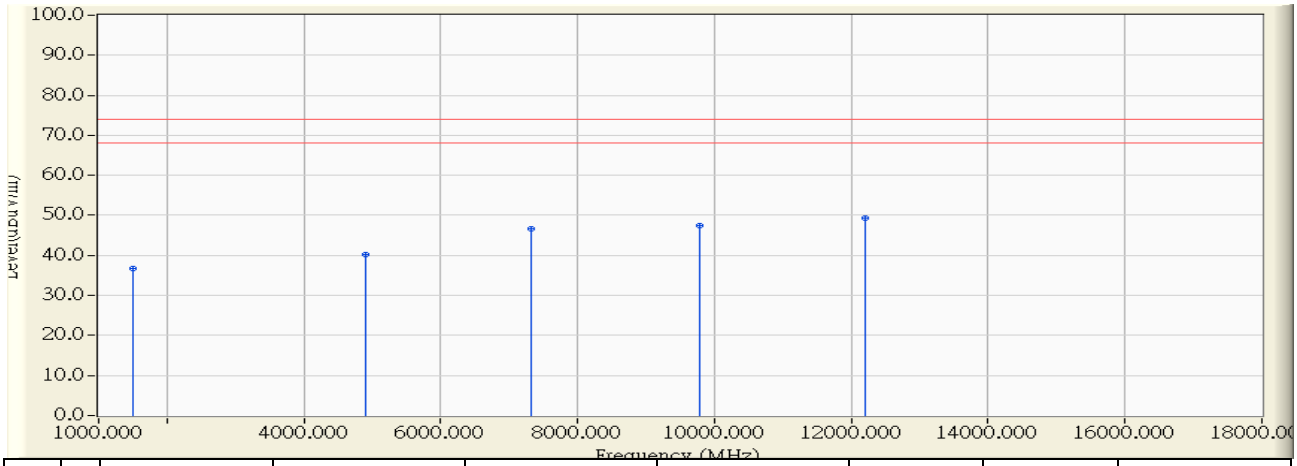


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1238.000	-9.639	55.250	45.610	-28.390	74.000	PEAK
2		4864.000	-1.655	41.310	39.655	-34.345	74.000	PEAK
3		7317.000	5.585	41.750	47.335	-26.665	74.000	PEAK
4		9749.000	7.556	39.910	47.467	-26.533	74.000	PEAK
5	*	12175.000	9.892	41.550	51.442	-22.558	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 : 2016/08/24 - 23:57**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2462MHz_Ant 1**

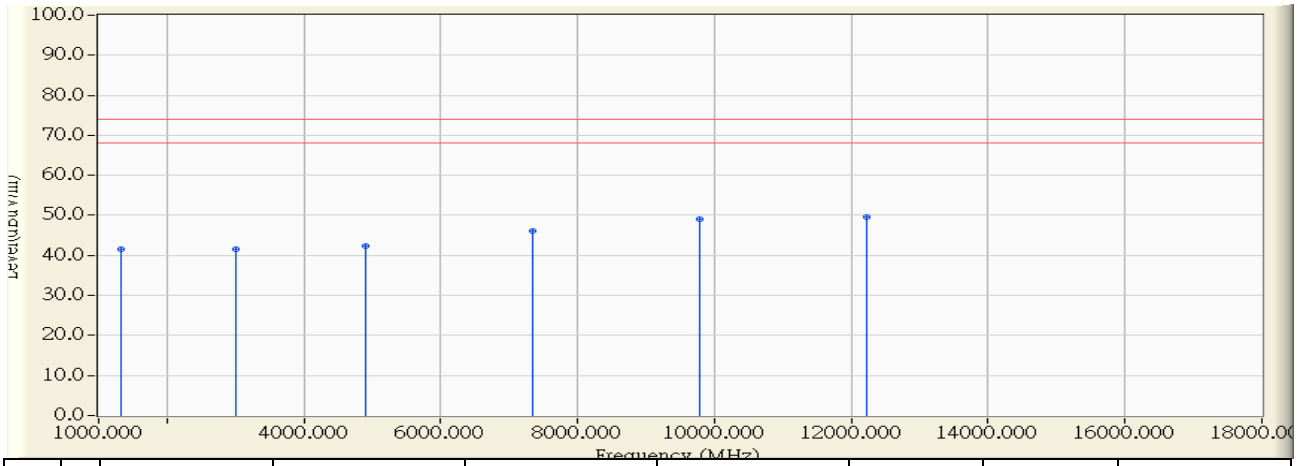


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1493.000	-9.678	46.370	36.692	-37.308	74.000	PEAK
2		4897.000	-2.364	42.560	40.196	-33.804	74.000	PEAK
3		7324.000	6.099	40.590	46.689	-27.311	74.000	PEAK
4		9780.000	8.374	39.090	47.464	-26.536	74.000	PEAK
5	*	12196.000	10.174	39.270	49.445	-24.555	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 : 2016/08/25 - 00:11**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g_2462MHz_Ant 1**

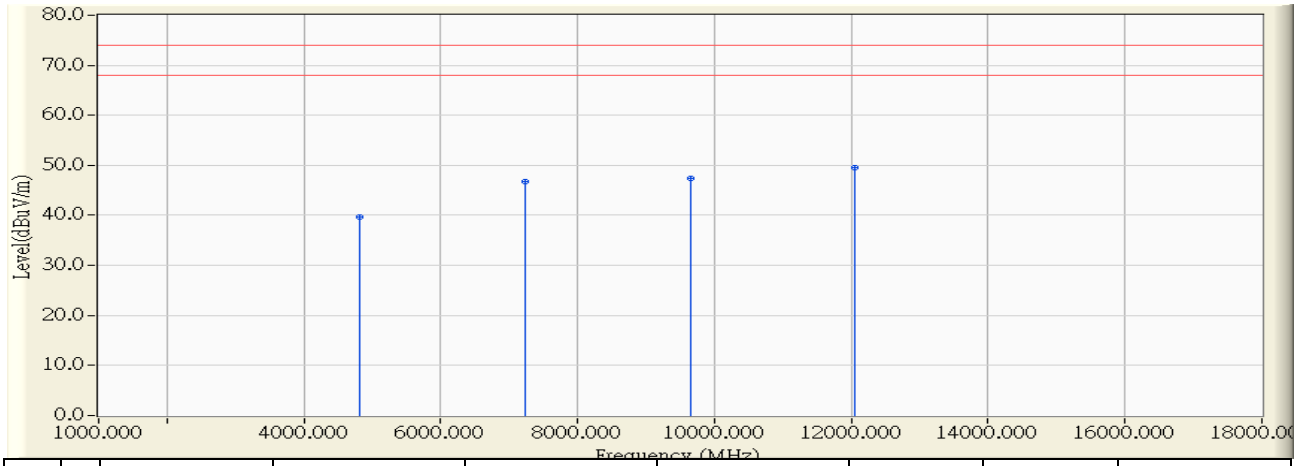


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		1323.000	-9.481	51.090	41.610	-32.390	74.000	PEAK
2		2997.000	-4.041	45.670	41.629	-32.371	74.000	PEAK
3		4898.000	-1.648	43.960	42.312	-31.688	74.000	PEAK
4		7336.000	5.622	40.440	46.063	-27.937	74.000	PEAK
5		9787.000	7.706	41.270	48.975	-25.025	74.000	PEAK
6	*	12220.000	9.884	39.810	49.694	-24.306	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 : 2016/08/31 - 17:10**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2412MHz**

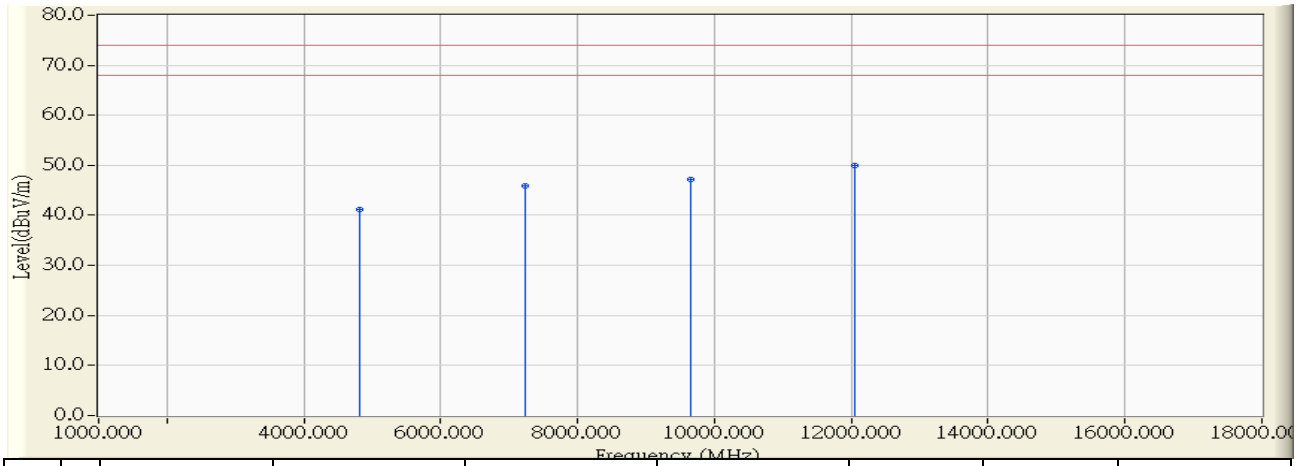


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.559	42.170	39.611	-34.389	74.000	PEAK
2		7236.000	5.926	40.780	46.706	-27.294	74.000	PEAK
3		9648.000	7.659	39.760	47.419	-26.581	74.000	PEAK
4	*	12060.000	10.338	39.270	49.607	-24.393	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 : 2016/08/31 - 17:15**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2412MHz**

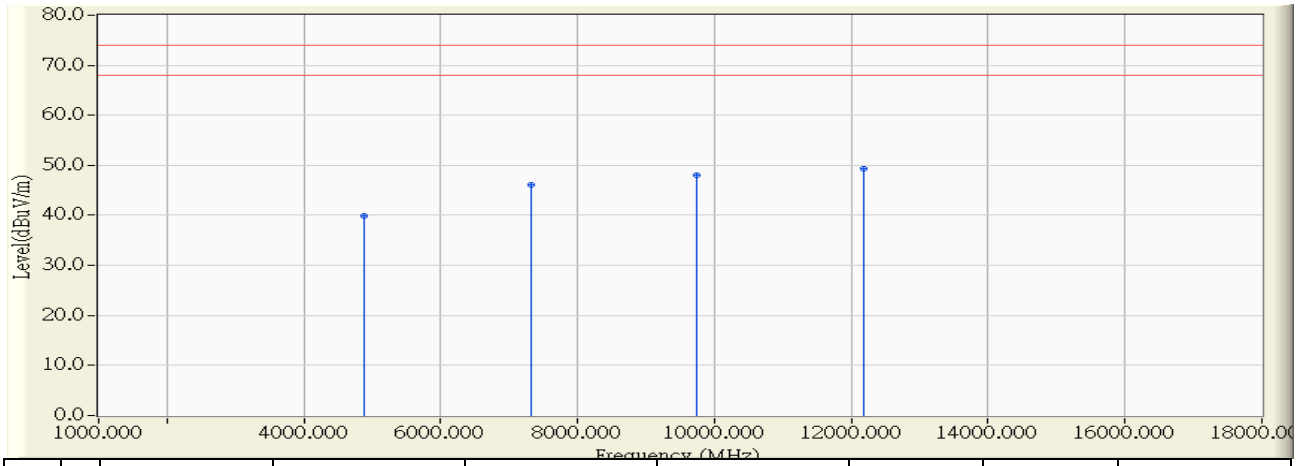


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.662	42.740	41.078	-32.922	74.000	PEAK
2		7236.000	5.426	40.370	45.796	-28.204	74.000	PEAK
3		9648.000	7.162	40.120	47.281	-26.719	74.000	PEAK
4	*	12060.000	9.915	40.040	49.954	-24.046	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 : 2016/08/31 - 17:25**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2437MHz**

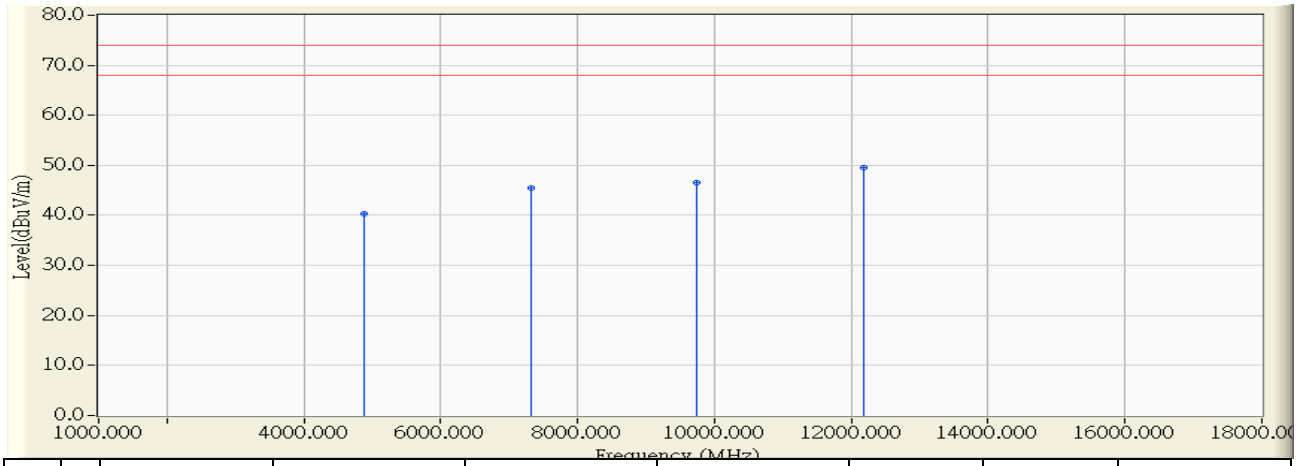


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.425	42.350	39.925	-34.075	74.000	PEAK
2		7311.000	6.073	39.940	46.013	-27.987	74.000	PEAK
3		9748.000	8.200	39.810	48.010	-25.990	74.000	PEAK
4	*	12185.000	10.188	39.180	49.368	-24.632	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 : 2016/08/31 - 17:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2437MHz**

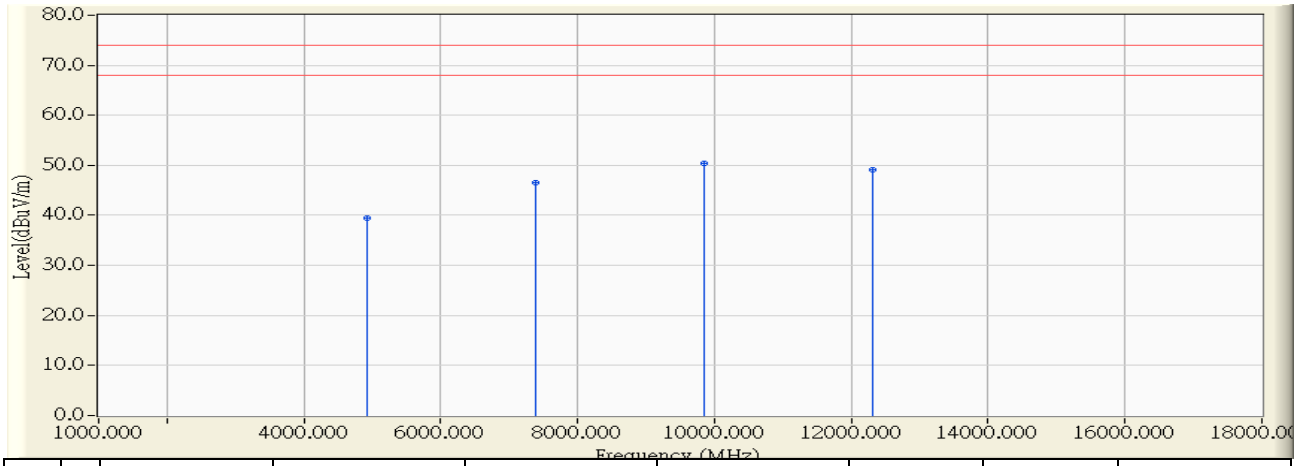


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.653	41.870	40.217	-33.783	74.000	PEAK
2		7311.000	5.573	39.870	45.443	-28.557	74.000	PEAK
3		9748.000	7.552	39.060	46.613	-27.387	74.000	PEAK
4	*	12185.000	9.890	39.720	49.610	-24.390	74.000	PEAK

Note:

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

Site : CB1	**Time : 2016/08/31 - 17:34**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2462MHz**

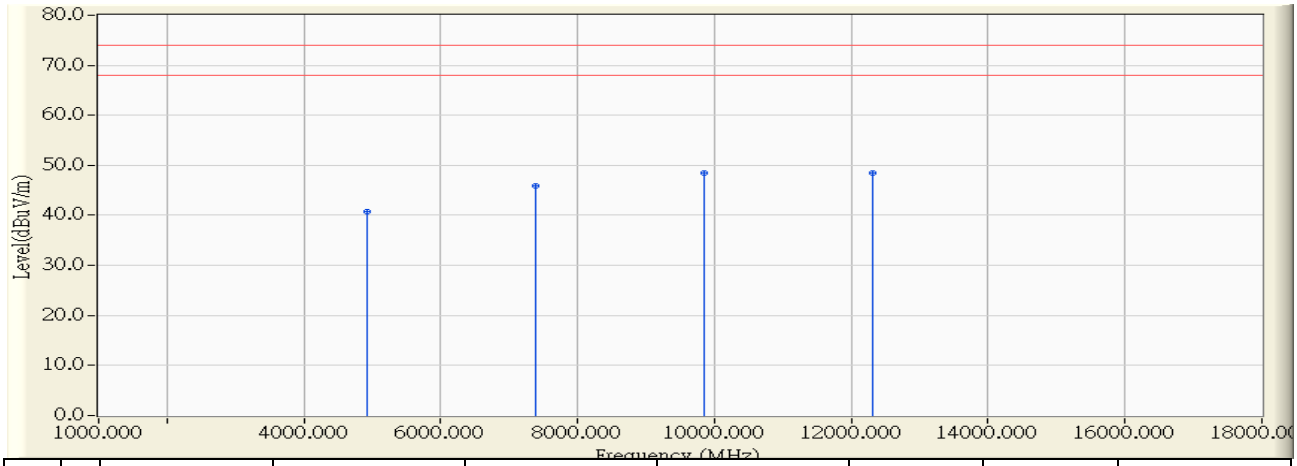


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.291	41.810	39.519	-34.481	74.000	PEAK
2		7386.000	6.221	40.410	46.631	-27.369	74.000	PEAK
3	*	9848.000	8.742	41.580	50.322	-23.678	74.000	PEAK
4		12310.000	10.040	39.010	49.049	-24.951	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 : 2016/08/31 - 17:42**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(20M)_2462MHz**

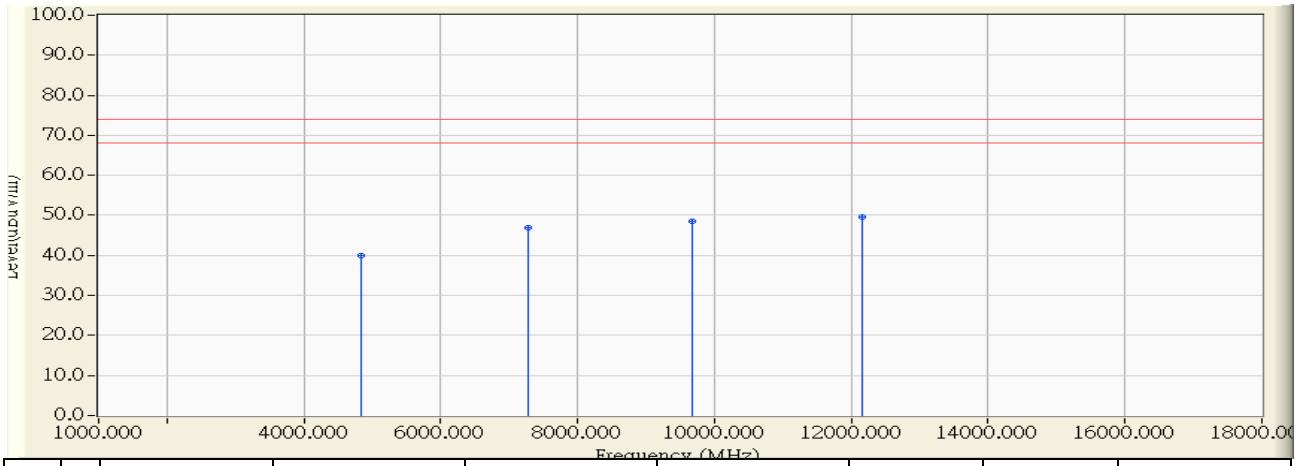


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.644	42.490	40.846	-33.154	74.000	PEAK
2		7386.000	5.721	40.260	45.981	-28.019	74.000	PEAK
3	*	9848.000	7.944	40.620	48.564	-25.436	74.000	PEAK
4		12310.000	9.867	38.680	48.546	-25.454	74.000	PEAK

Note:

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

Site : CB1	**Time : 2016/09/07 - 16:44**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2422MHz**

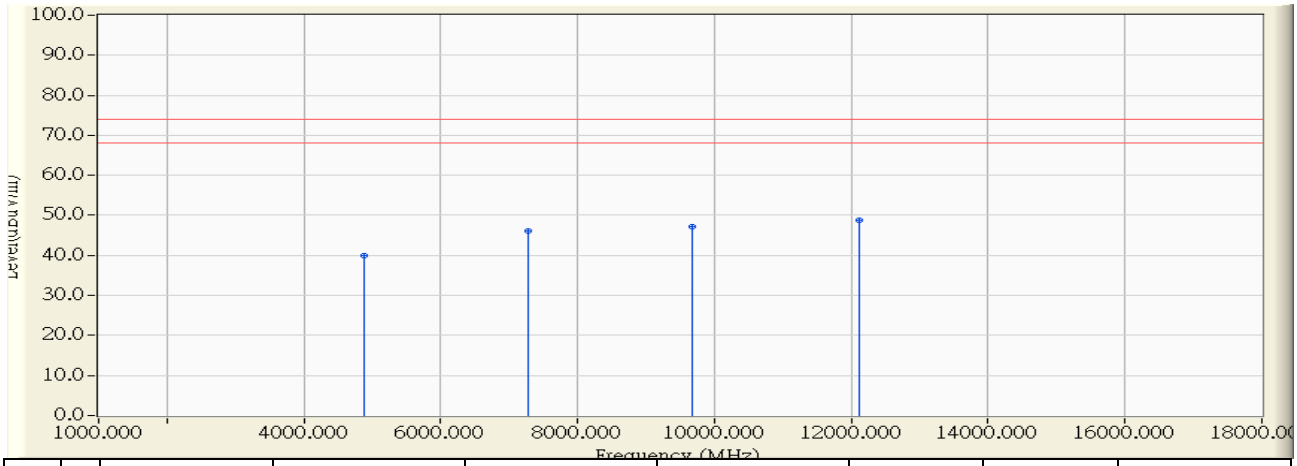


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4825.000	-2.557	42.530	39.973	-34.027	74.000	PEAK
2		7287.000	6.026	40.790	46.816	-27.184	74.000	PEAK
3		9679.000	7.826	40.650	48.477	-25.523	74.000	PEAK
4	*	12153.000	10.226	39.380	49.606	-24.394	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 : 2016/09/07 - 17:29**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2422MHz**

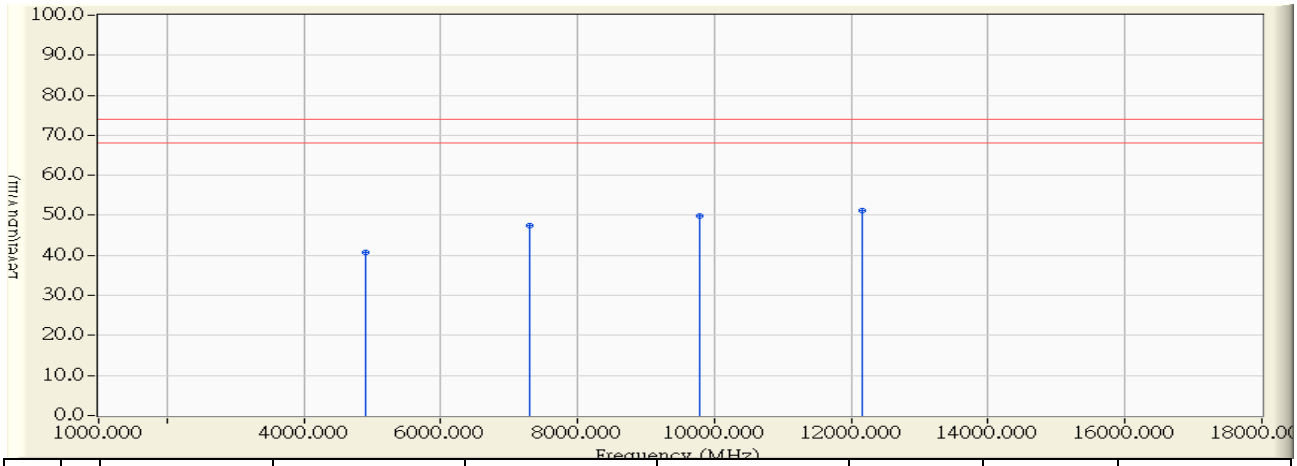


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4883.000	-1.651	41.640	39.989	-34.011	74.000	PEAK
2		7284.000	5.521	40.480	46.000	-28.000	74.000	PEAK
3		9671.000	7.251	40.040	47.291	-26.709	74.000	PEAK
4	*	12119.000	9.904	38.910	48.813	-25.187	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 : 2016/09/07 - 17:08**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**

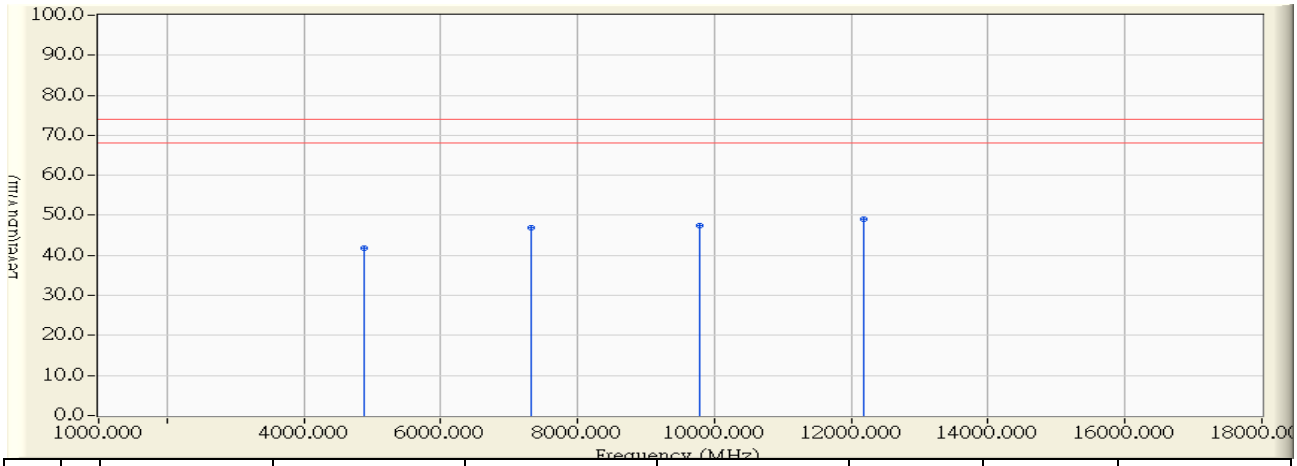


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4895.000	-2.369	43.020	40.651	-33.349	74.000	PEAK
2		7295.000	6.042	41.470	47.512	-26.488	74.000	PEAK
3		9785.000	8.401	41.460	49.861	-24.139	74.000	PEAK
4	*	12149.000	10.232	40.890	51.121	-22.879	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 : 2016/09/07 - 17:30**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2437MHz**

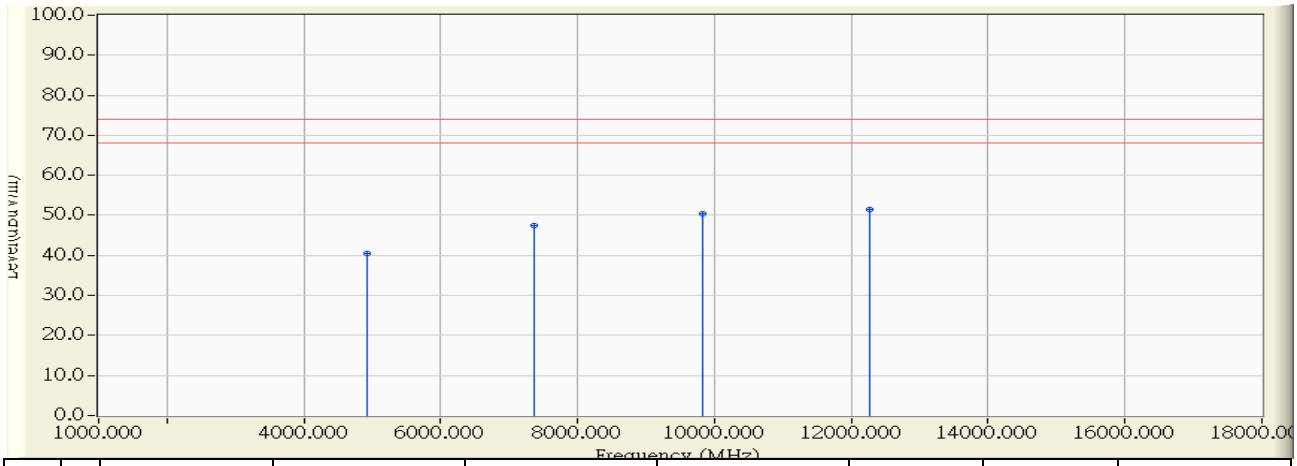


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4875.000	-1.653	43.580	41.927	-32.073	74.000	PEAK
2		7310.000	5.572	41.430	47.002	-26.998	74.000	PEAK
3		9784.000	7.694	39.890	47.584	-26.416	74.000	PEAK
4	*	12174.000	9.892	39.250	49.142	-24.858	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 : 2016/09/07 - 17:19**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2452MHz**

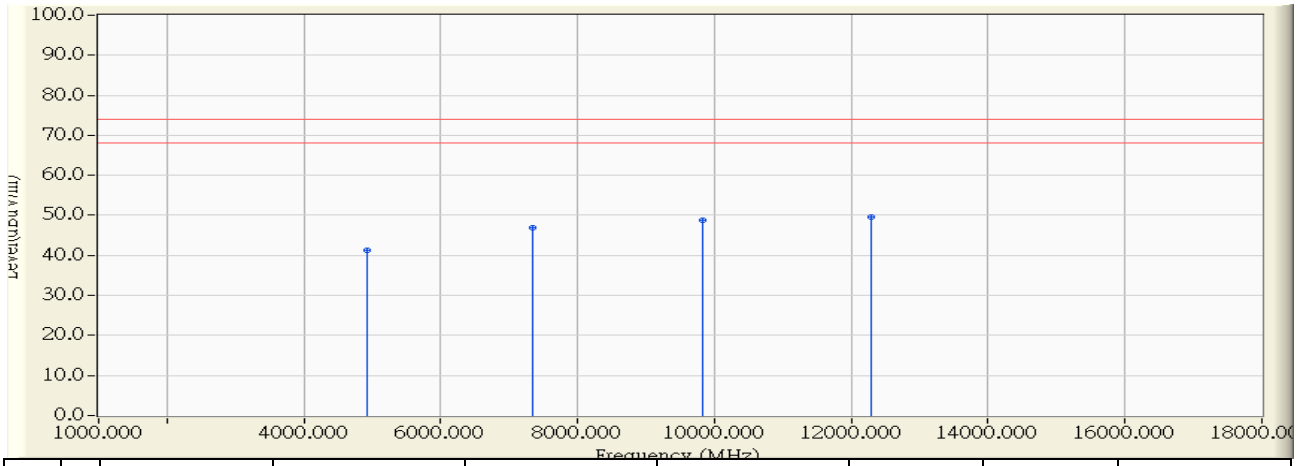


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4933.000	-2.267	42.690	40.423	-33.577	74.000	PEAK
2		7362.000	6.174	41.330	47.504	-26.496	74.000	PEAK
3		9824.000	8.611	41.910	50.522	-23.478	74.000	PEAK
4	*	12277.000	10.078	41.330	51.409	-22.591	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 : 2016/09/07 - 17:31**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual-Band Wireless-AC PCI-E Adapter	**Note : Mode 2: Transmit_CDD Mode 802.11n(40M)_2452MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4930.000	-1.643	42.930	41.287	-32.713	74.000	PEAK
2		7351.000	5.652	41.310	46.962	-27.038	74.000	PEAK
3		9817.000	7.823	41.050	48.873	-25.127	74.000	PEAK
4	*	12285.000	9.871	39.850	49.721	-24.279	74.000	PEAK

Note:

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

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

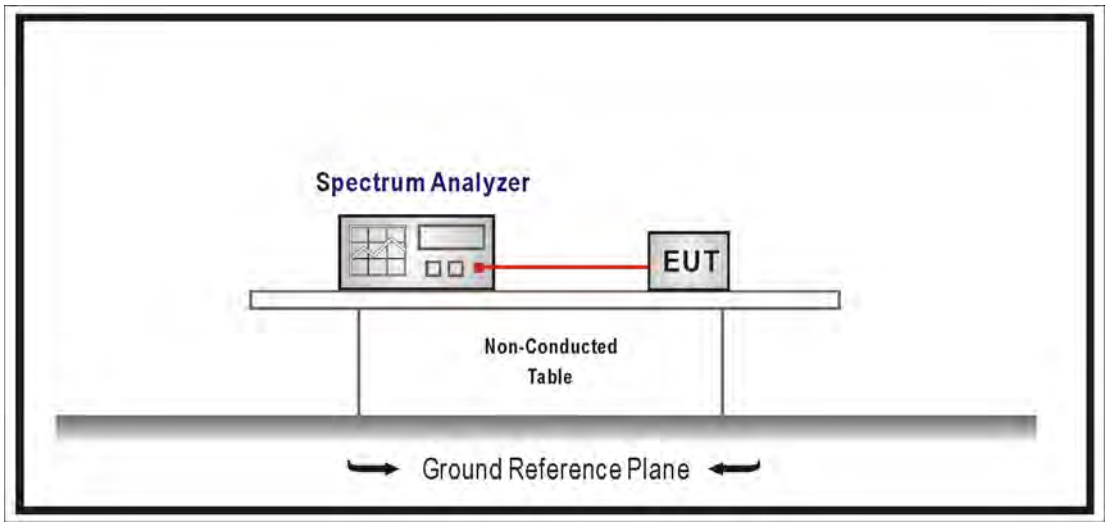
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Signal Analyzer	R&S	FSV7	101650	2016/11/30

Note: 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 C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 v03r05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

5.6. Uncertainty

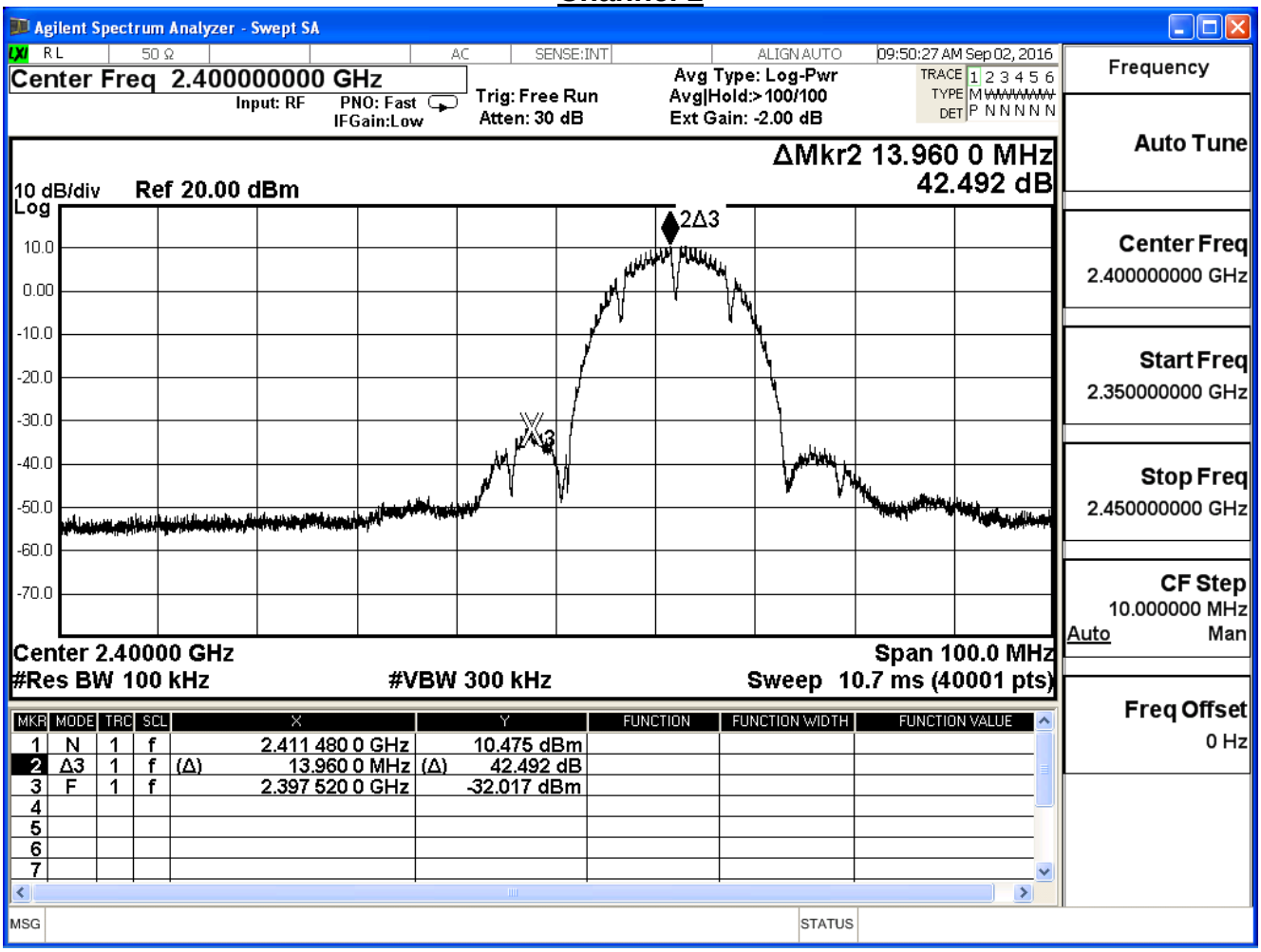
Conducted is defined as ± 1.27dB

5.7. Test Result

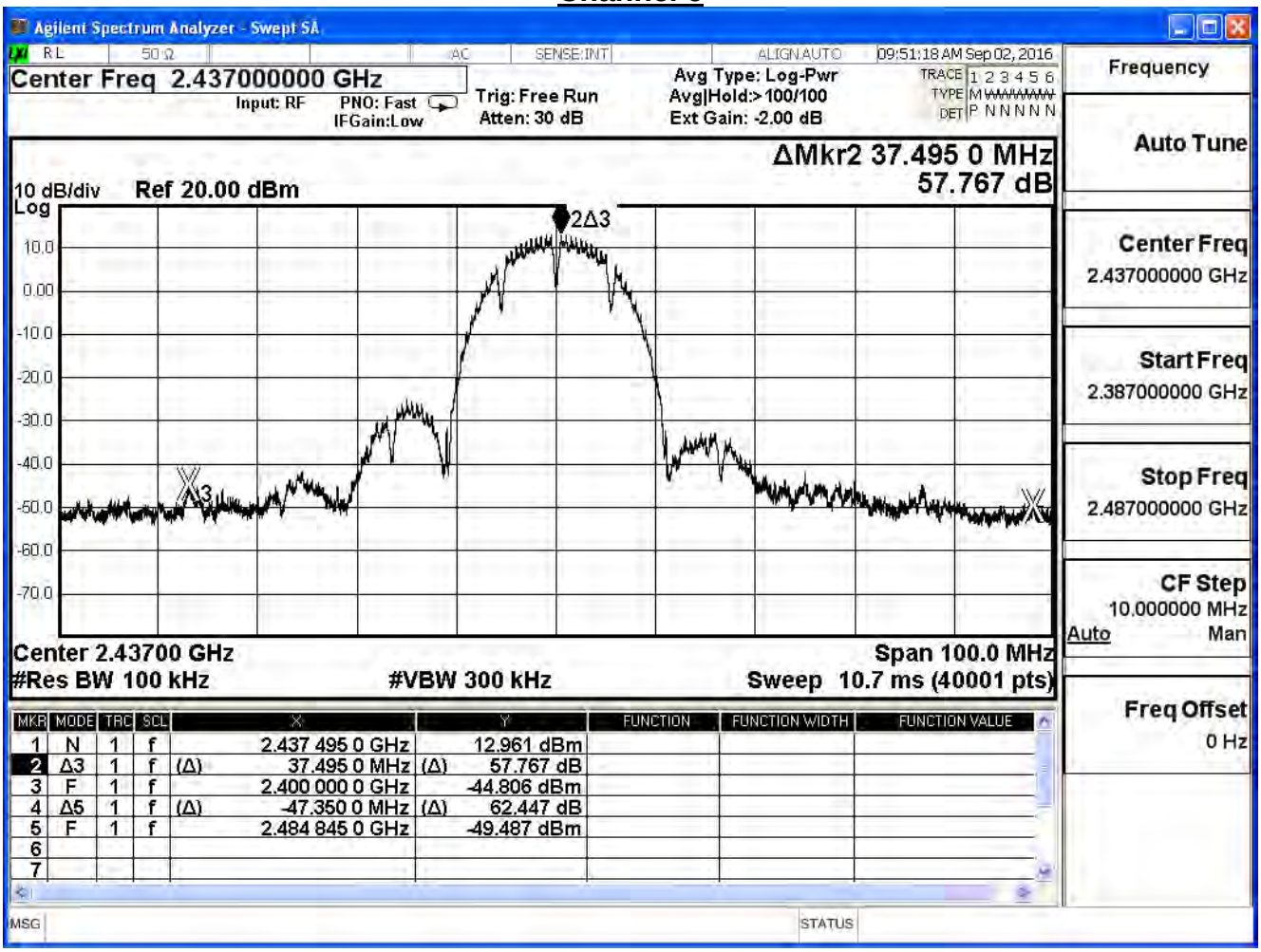
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.49	≧30	Pass
6	2437	57.77	≧30	Pass
11	2462	57.07	≧30	Pass

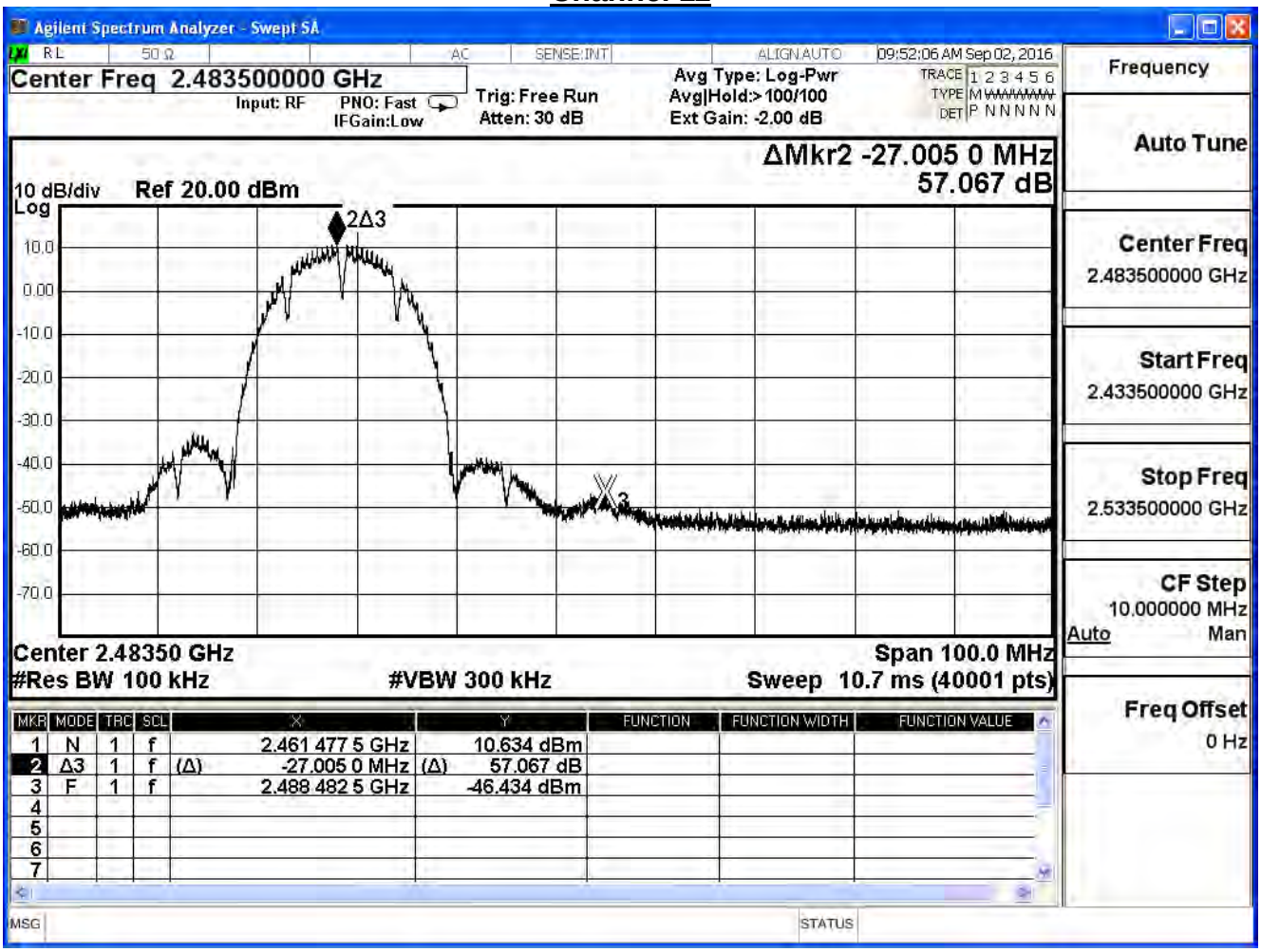
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:51:18 AM Sep 02, 2016
ΔMkr2 37.495 0 MHz
57.767 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
X3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.437 495 0 GHz 12.961 dBm
2 Δ3 1 f (Δ) 37.495 0 MHz (Δ) 57.767 dB
3 F 1 f 2.400 000 0 GHz -44.806 dBm
4 Δ5 1 f (Δ) -47.350 0 MHz (Δ) 62.447 dB
5 F 1 f 2.484 845 0 GHz -49.487 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

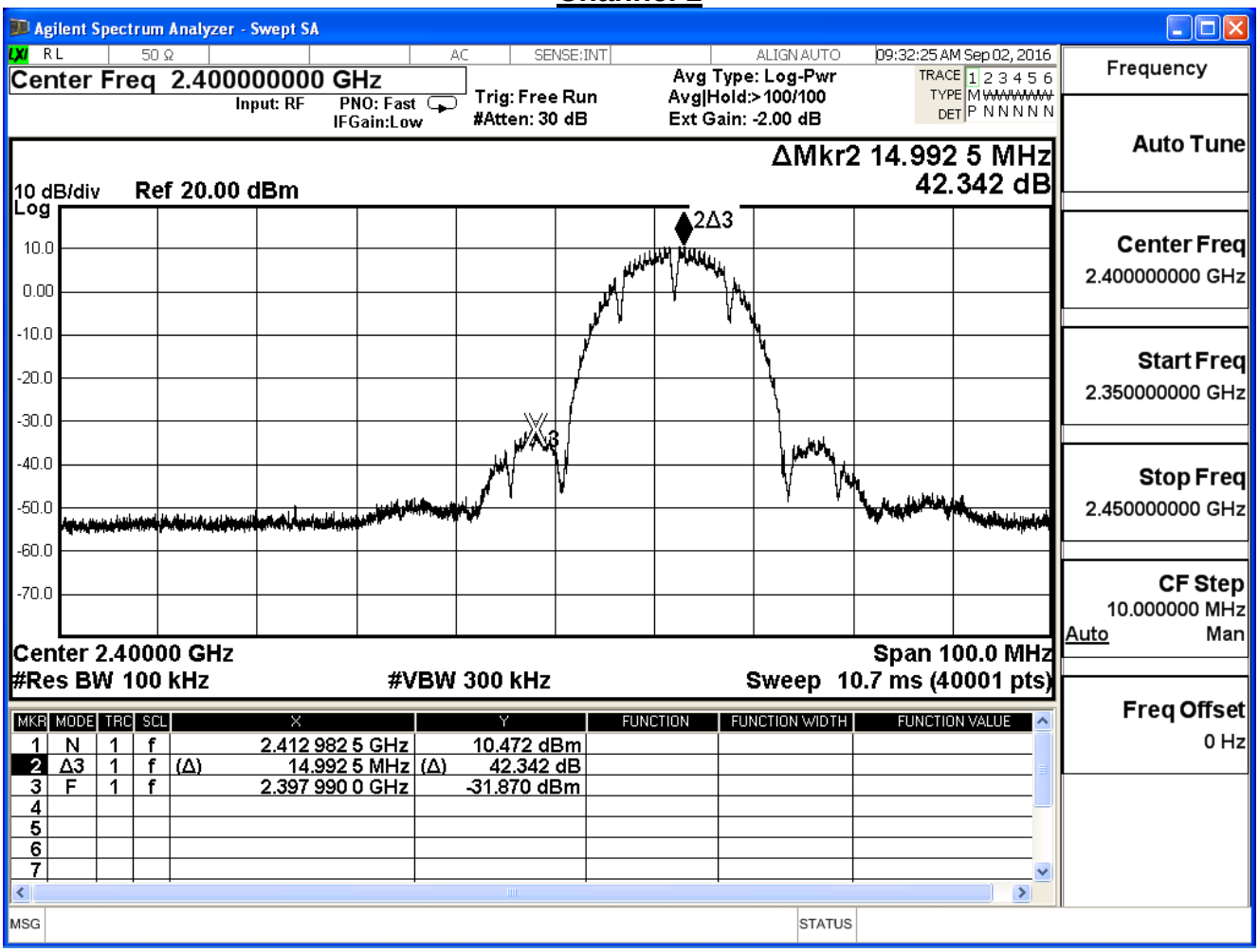
Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:52:06 AM Sep 02, 2016
ΔMkr2 -27.005 0 MHz
57.067 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.461 477 5 GHz 10.634 dBm
2 Δ3 1 f (Δ) -27.005 0 MHz (Δ) 57.067 dB
3 F 1 f 2.488 482 5 GHz -46.434 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

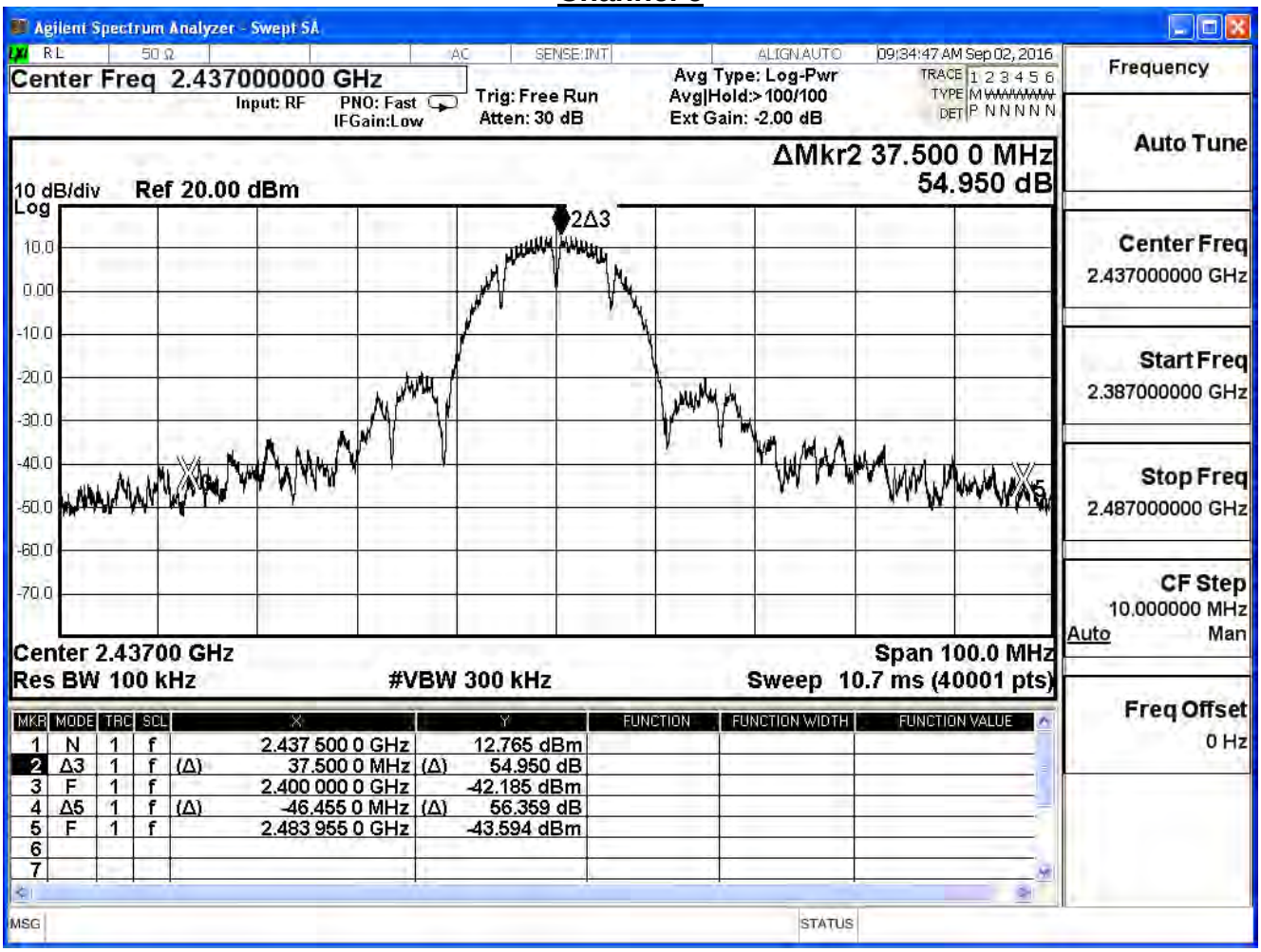
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.34	≧30	Pass
6	2437	54.95	≧30	Pass
11	2462	56.47	≧30	Pass

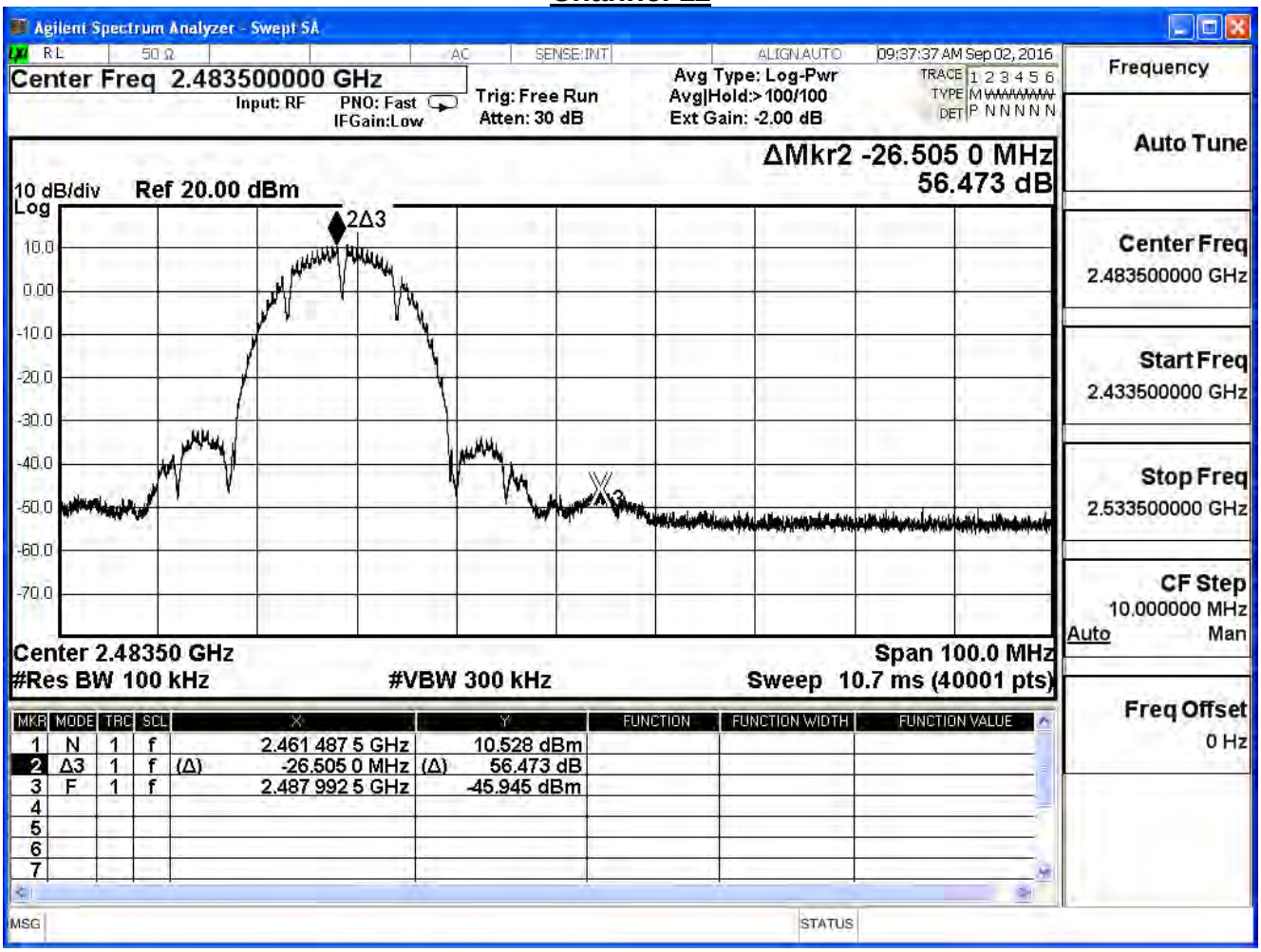
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:34:47 AM Sep 02, 2016
ΔMkr2 37.500 0 MHz
54.950 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.43700 GHz
Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.437 500 0 GHz 12.765 dBm
2 Δ3 1 f (Δ) 37.500 0 MHz (Δ) 54.950 dB
3 F 1 f 2.400 000 0 GHz -42.185 dBm
4 Δ5 1 f (Δ) -46.455 0 MHz (Δ) 56.359 dB
5 F 1 f 2.483 955 0 GHz -43.594 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

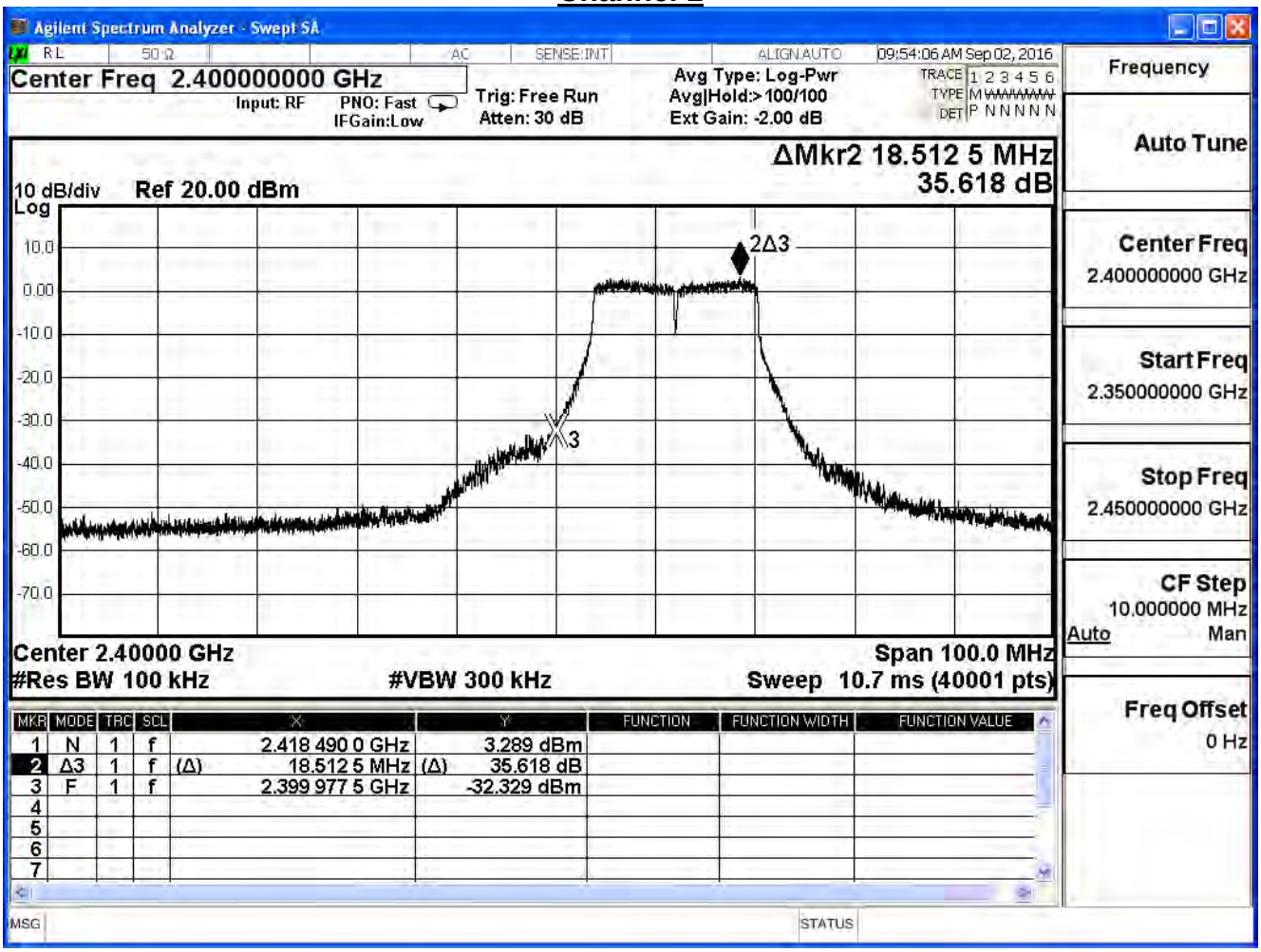
Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:37:37 AM Sep 02, 2016
ΔMkr2 -26.505 0 MHz
56.473 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.461 487 5 GHz 10.528 dBm
2 Δ3 1 f (Δ) -26.505 0 MHz (Δ) 56.473 dB
3 F 1 f 2.487 992 5 GHz -45.945 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

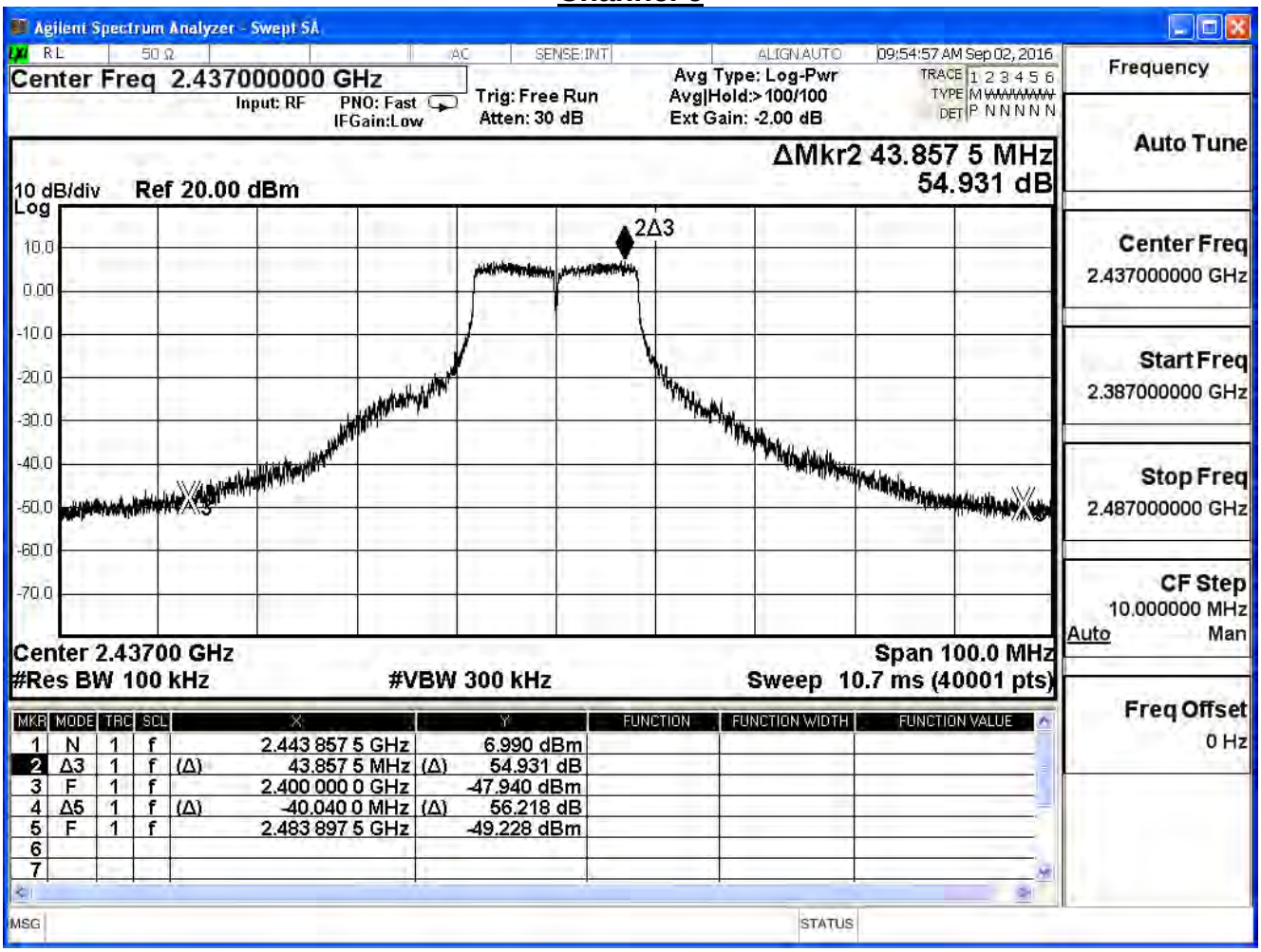
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.62	≧30	Pass
6	2437	54.93	≧30	Pass
11	2462	52.13	≧30	Pass

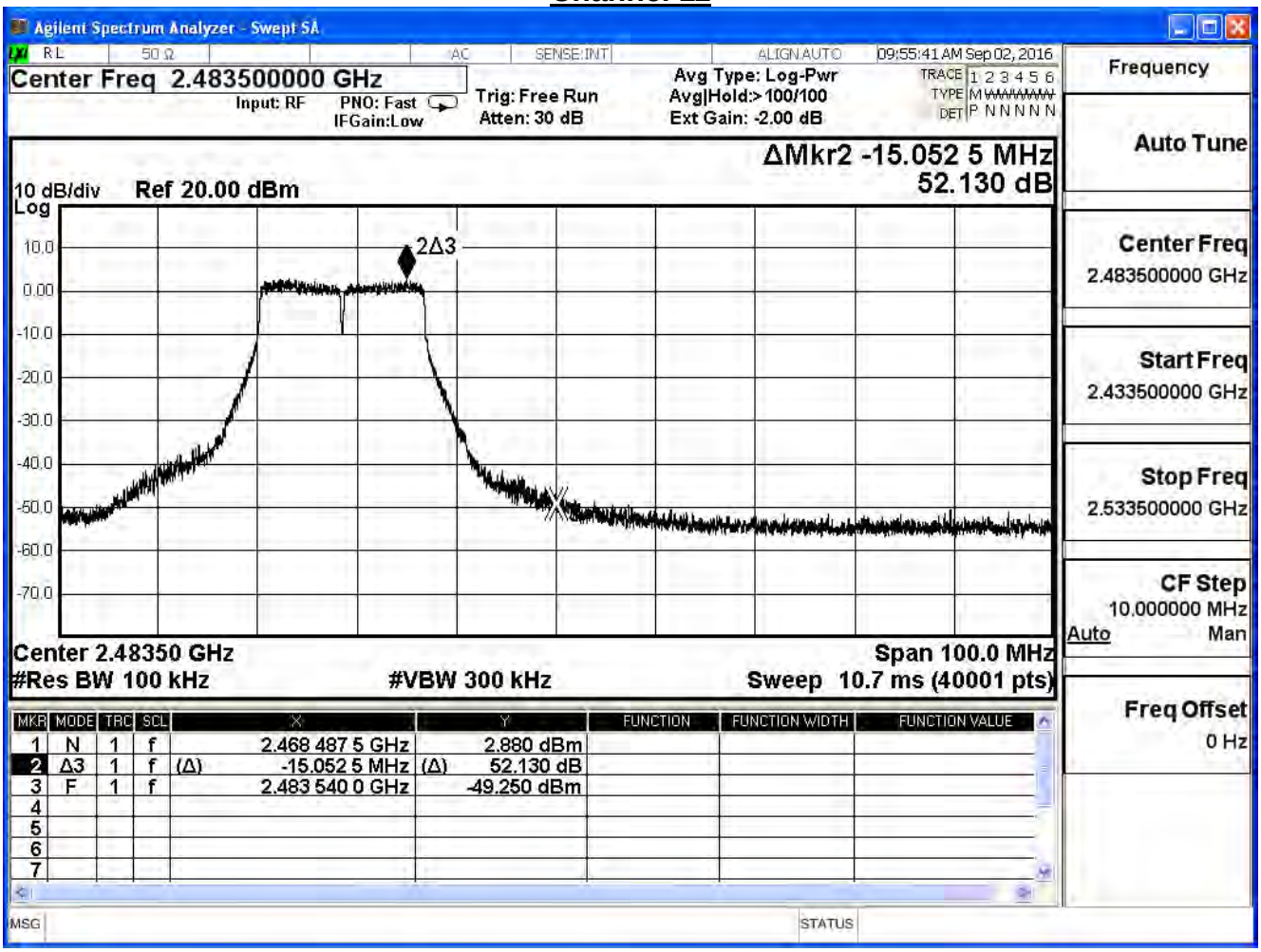
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:54:57 AM Sep 02, 2016
ΔMkr2 43.857 5 MHz
54.931 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.443 857 5 GHz 6.990 dBm
2 Δ3 1 f (Δ) 43.857 5 MHz (Δ) 54.931 dB
3 F 1 f 2.400 000 0 GHz -47.940 dBm
4 Δ5 1 f (Δ) -40.040 0 MHz (Δ) 56.218 dB
5 F 1 f 2.483 897 5 GHz -49.228 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

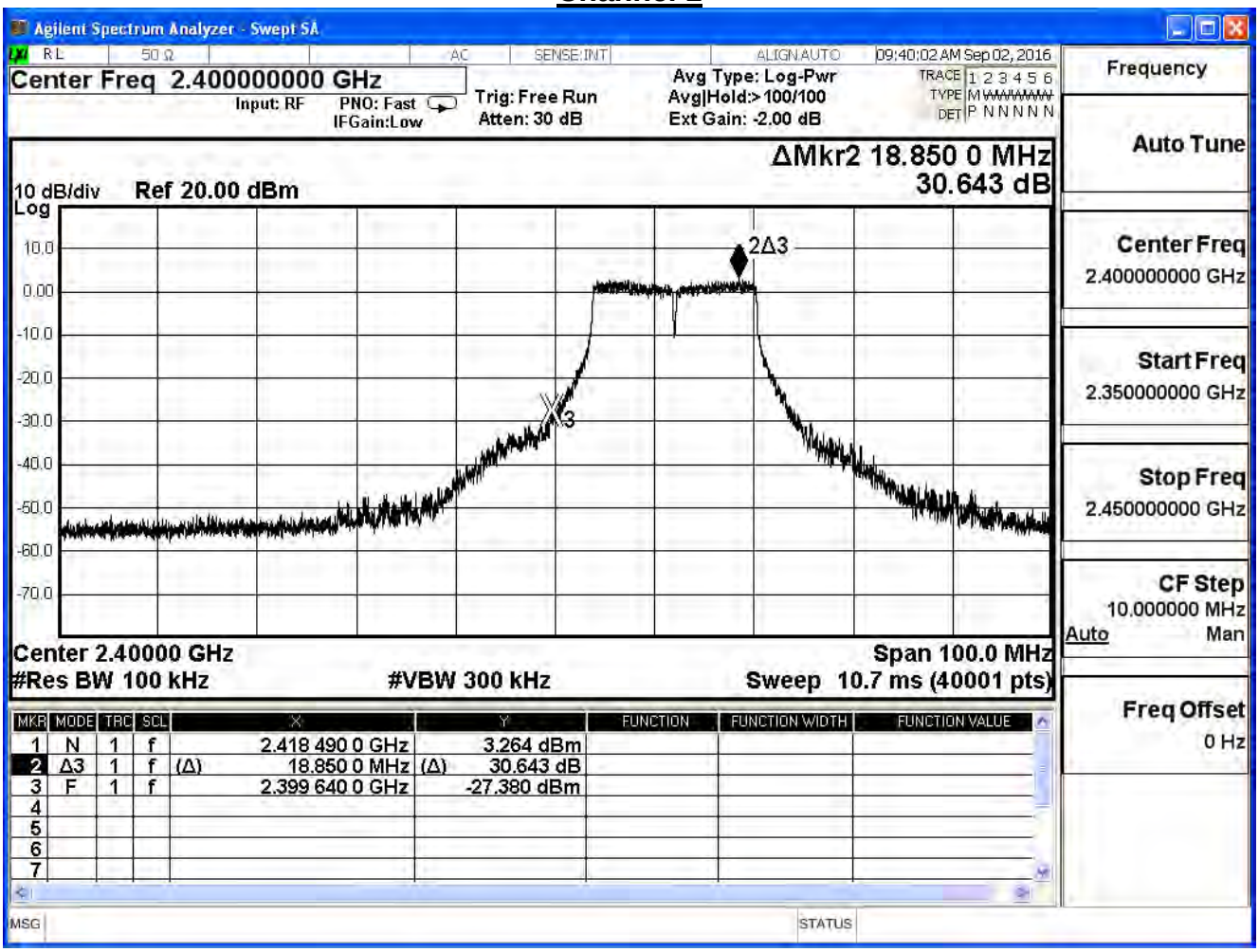
Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:55:41 AM Sep 02, 2016
ΔMkr2 -15.052 5 MHz
52.130 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.468 487 5 GHz 2.880 dBm
2 Δ3 1 f (Δ) -15.052 5 MHz (Δ) 52.130 dB
3 F 1 f 2.483 540 0 GHz -49.250 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

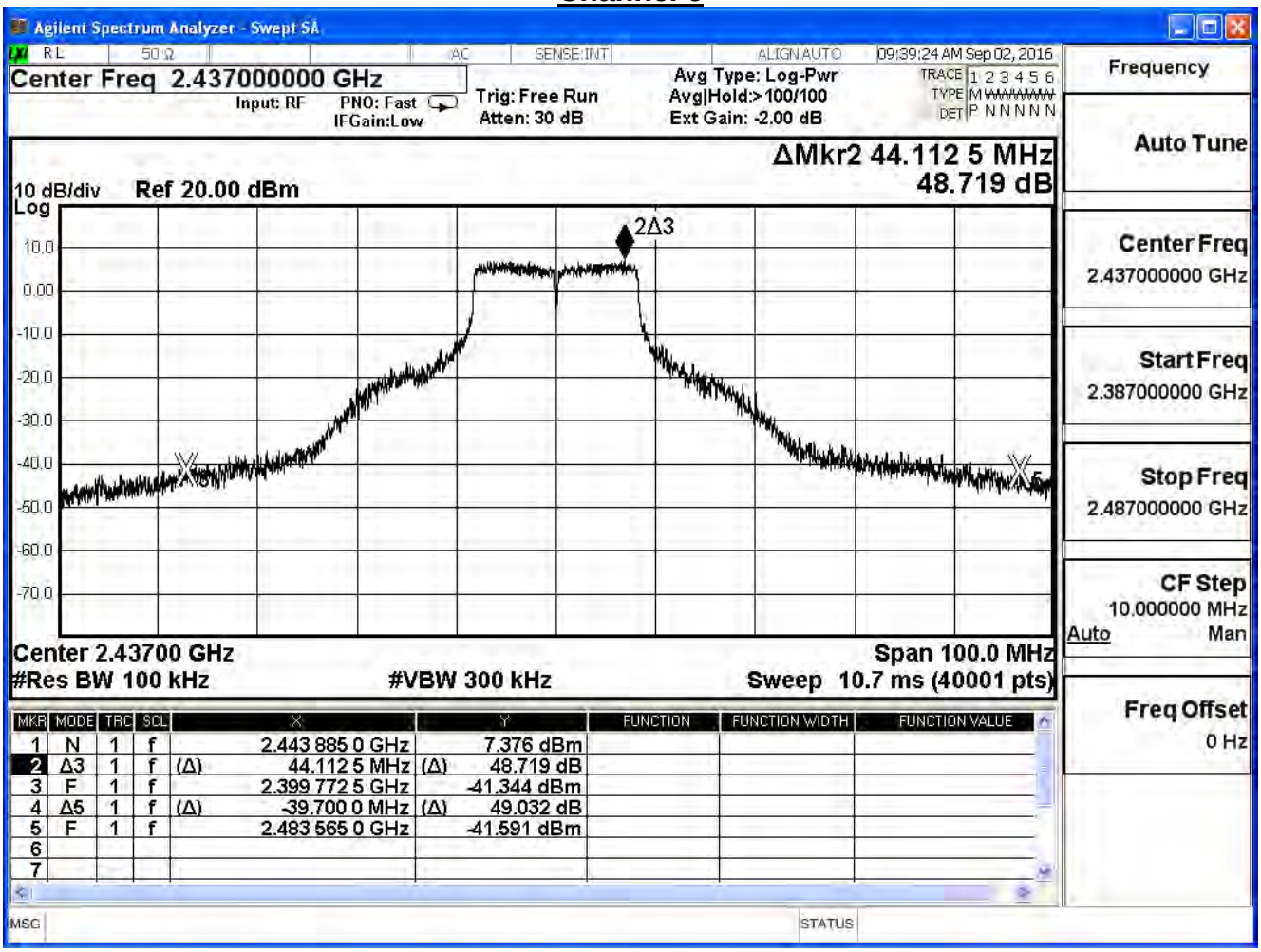
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.64	≧30	Pass
6	2437	48.72	≧30	Pass
11	2462	44.54	≧30	Pass

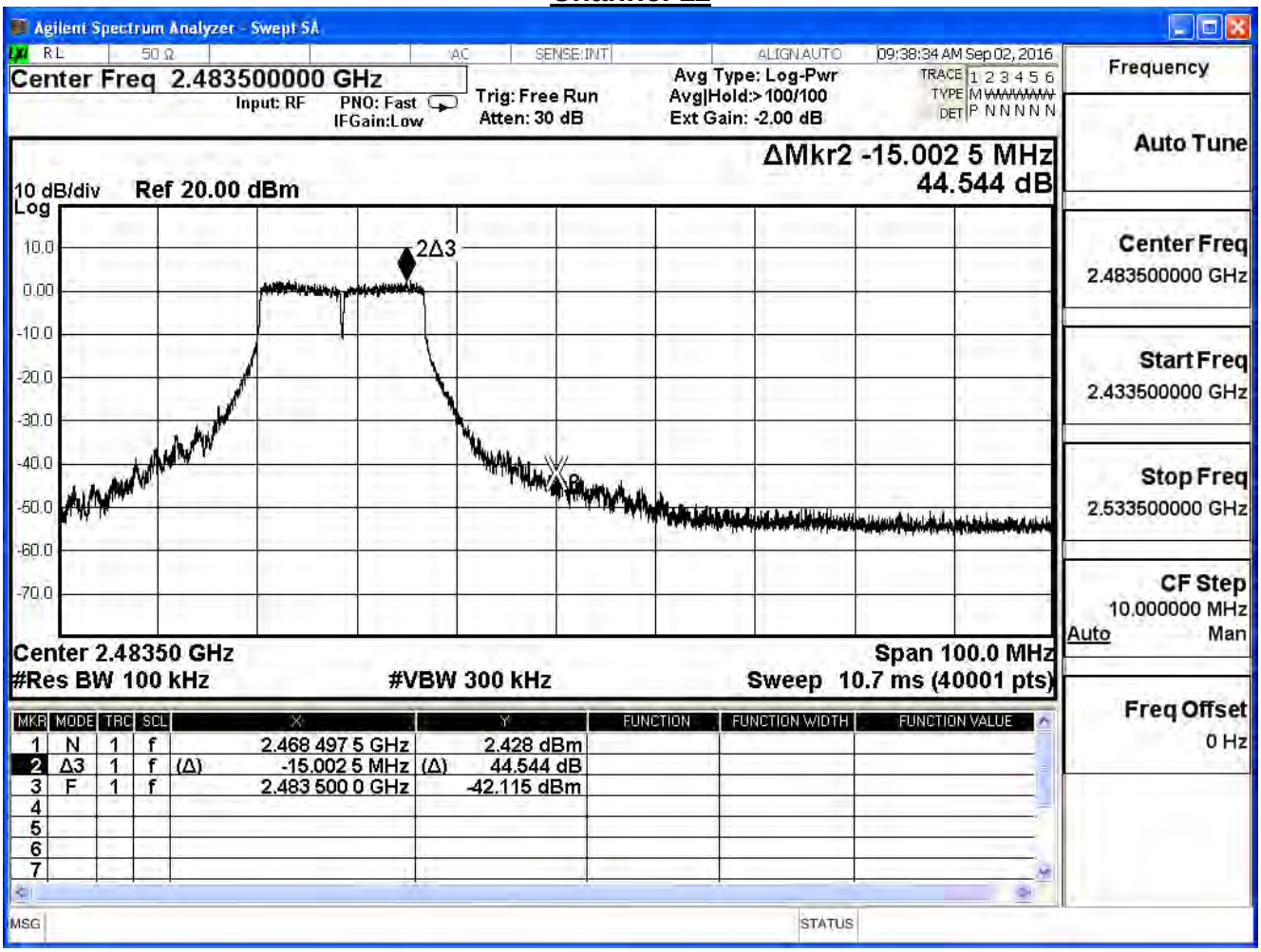
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:39:24 AM Sep 02, 2016
ΔMkr2 44.112 5 MHz
48.719 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.443 885 0 GHz 7.376 dBm
2 Δ3 1 f (Δ) 44.112 5 MHz (Δ) 48.719 dB
3 F 1 f 2.399 772 5 GHz -41.344 dBm
4 Δ5 1 f (Δ) -39.700 0 MHz (Δ) 49.032 dB
5 F 1 f 2.483 565 0 GHz -41.591 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 11

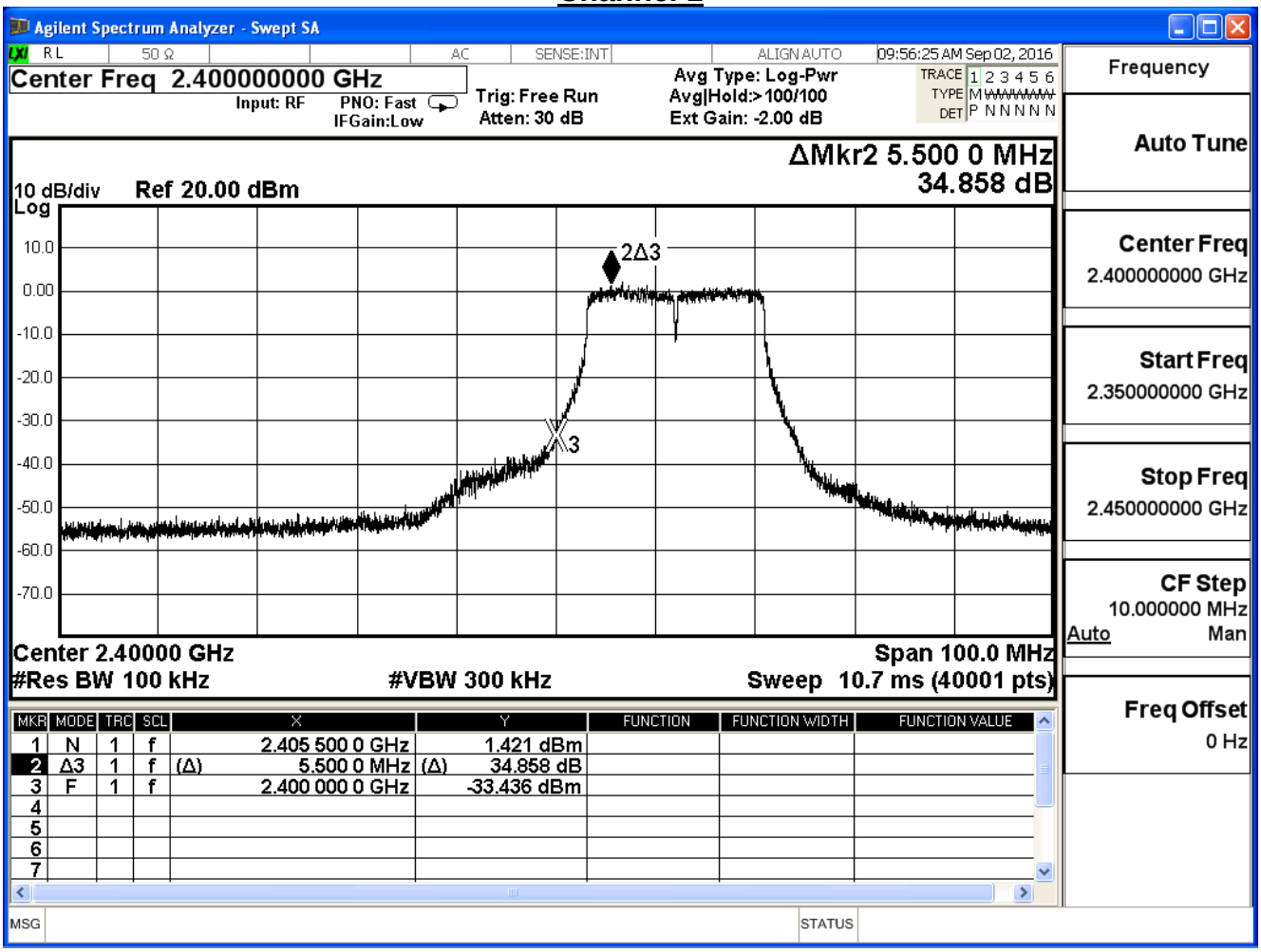

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:38:34 AM Sep 02, 2016
ΔMkr2 -15.002 5 MHz
44.544 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.468 497 5 GHz 2.428 dBm
2 Δ3 1 f (Δ) -15.002 5 MHz (Δ) 44.544 dB
3 F 1 f 2.483 500 0 GHz -42.115 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/02	Test Site	SR7

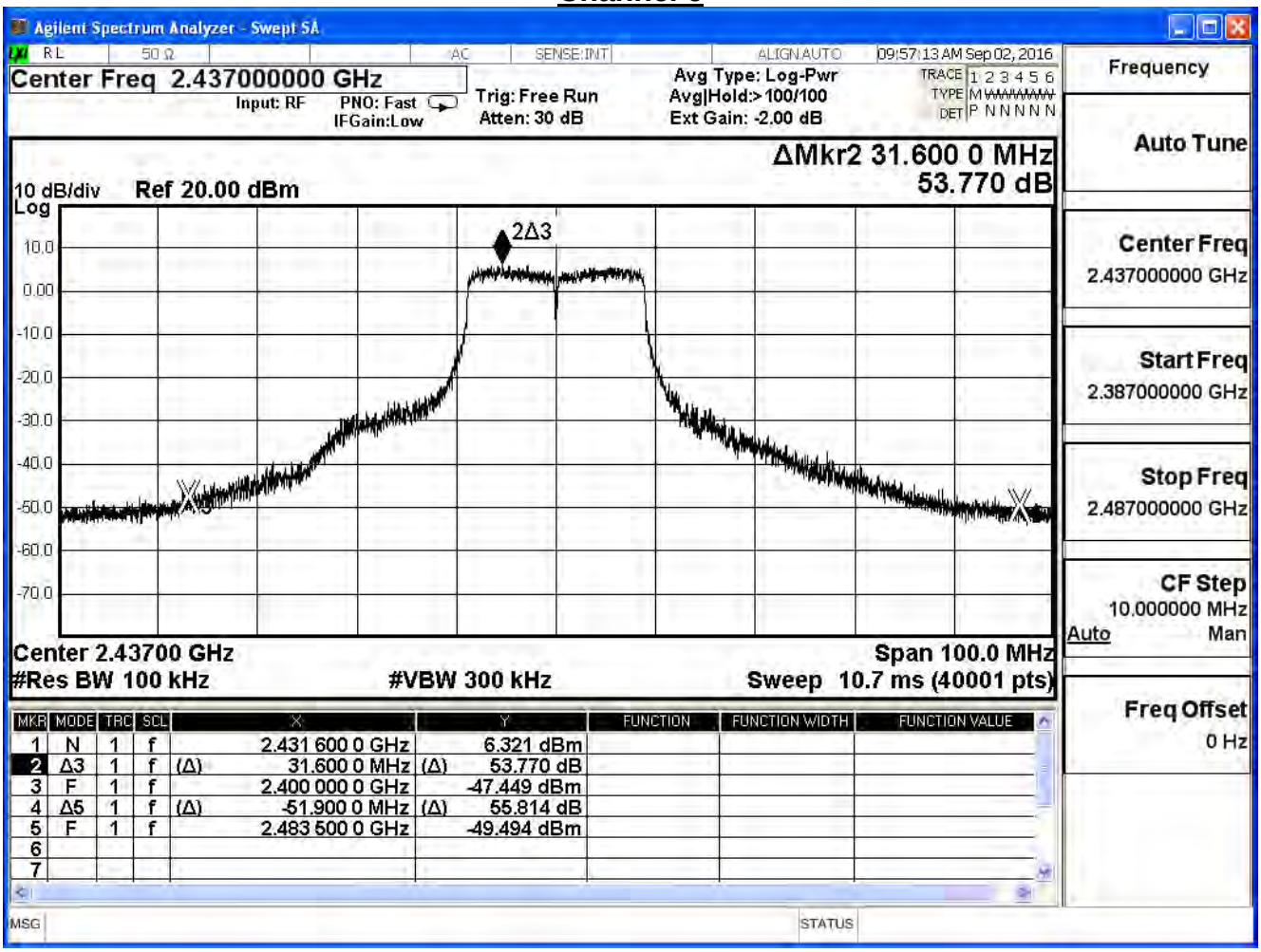
IEEE 802.11n_20M (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	34.86	≧30	Pass
6	2437	53.77	≧30	Pass
11	2462	50.42	≧30	Pass

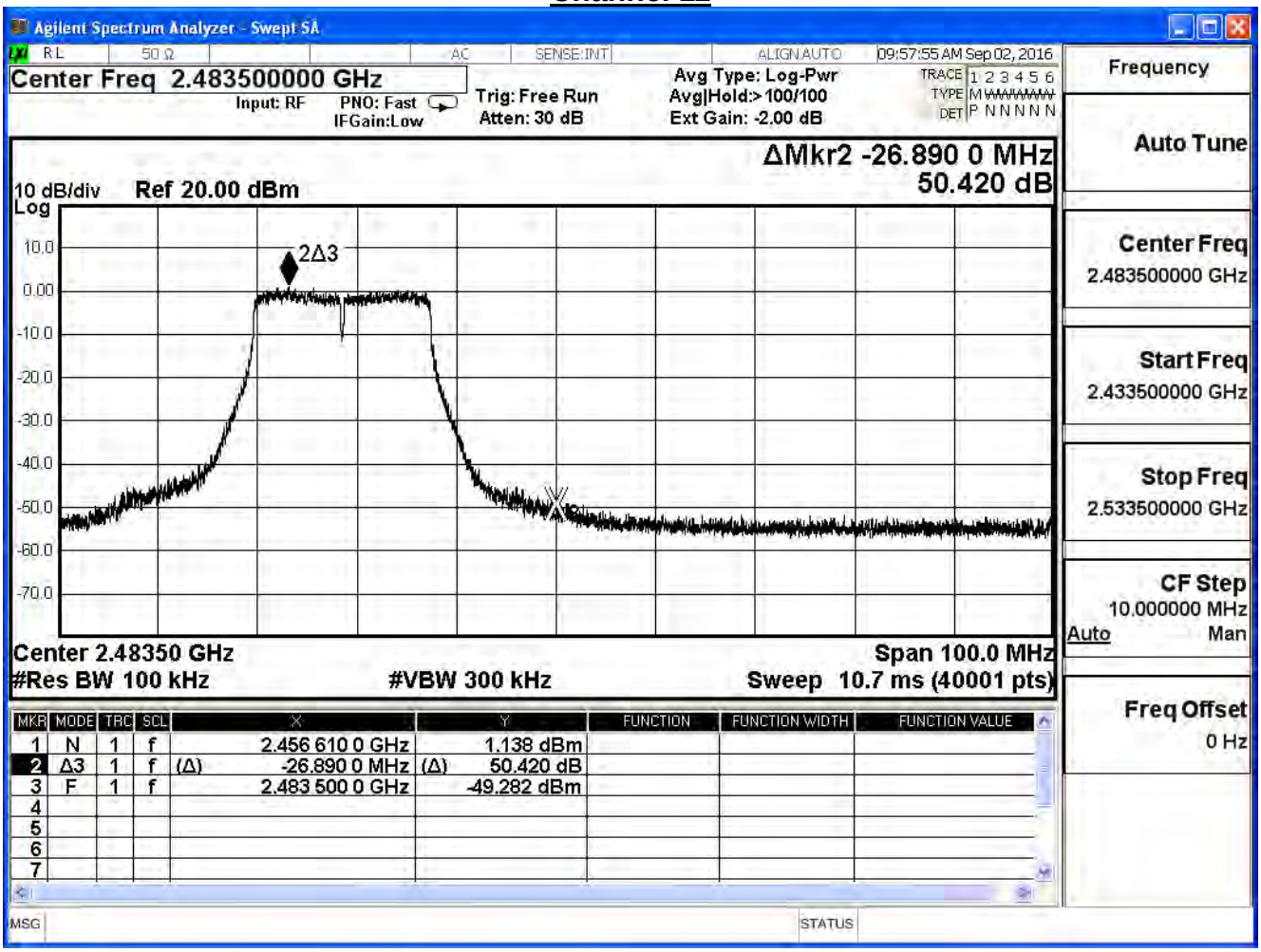
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:57:13 AM Sep 02, 2016
ΔMkr2 31.600 0 MHz
53.770 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.431 600 0 GHz 6.321 dBm
2 Δ3 1 f (Δ) 31.600 0 MHz (Δ) 53.770 dB
3 F 1 f 2.400 000 0 GHz -47.449 dBm
4 Δ5 1 f (Δ) -51.900 0 MHz (Δ) 55.814 dB
5 F 1 f 2.483 500 0 GHz -49.494 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

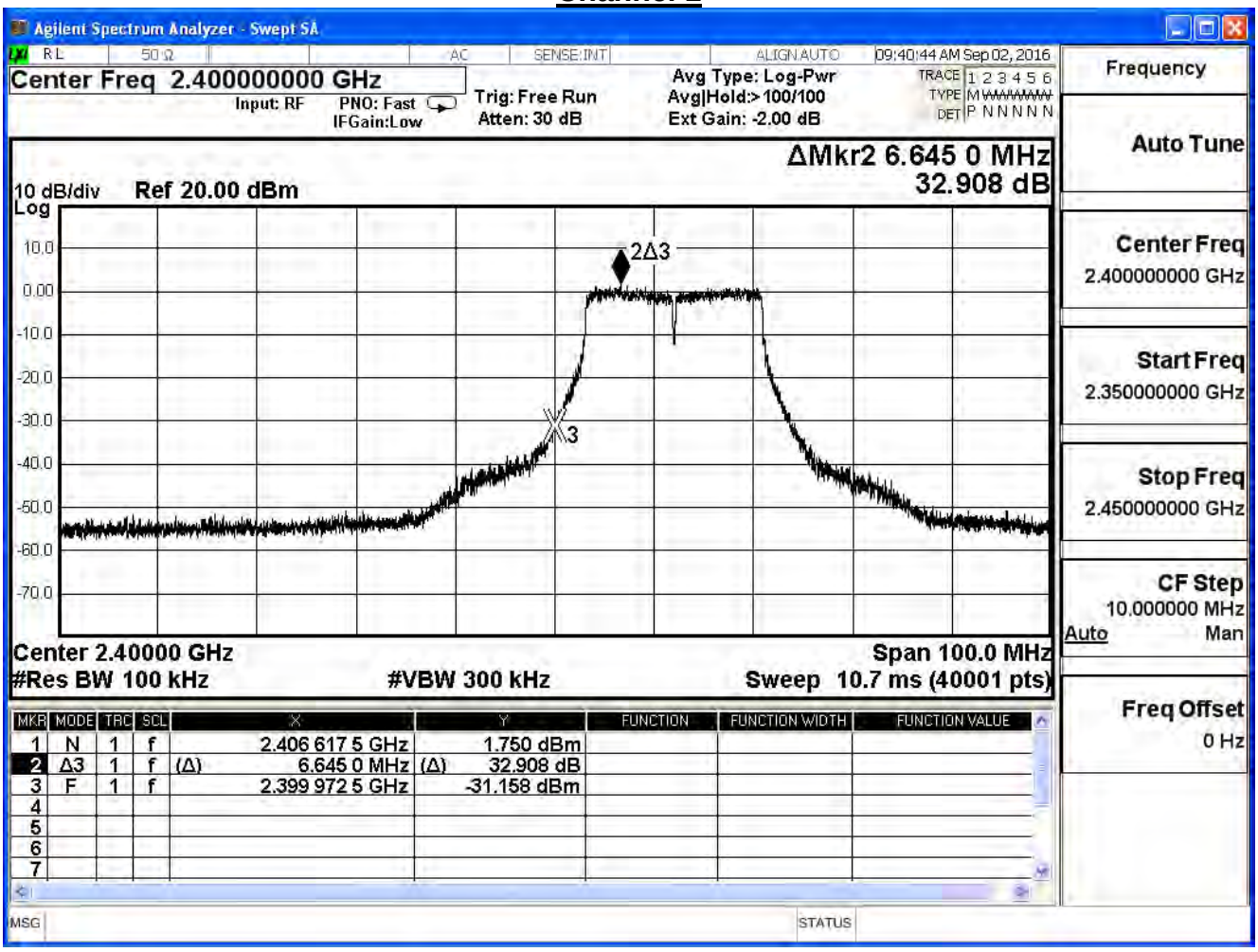
Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:57:55 AM Sep 02, 2016
ΔMkr2 -26.890 0 MHz
50.420 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.456 610 0 GHz 1.138 dBm
2 Δ3 1 f (Δ) -26.890 0 MHz (Δ) 50.420 dB
3 F 1 f 2.483 500 0 GHz -49.282 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

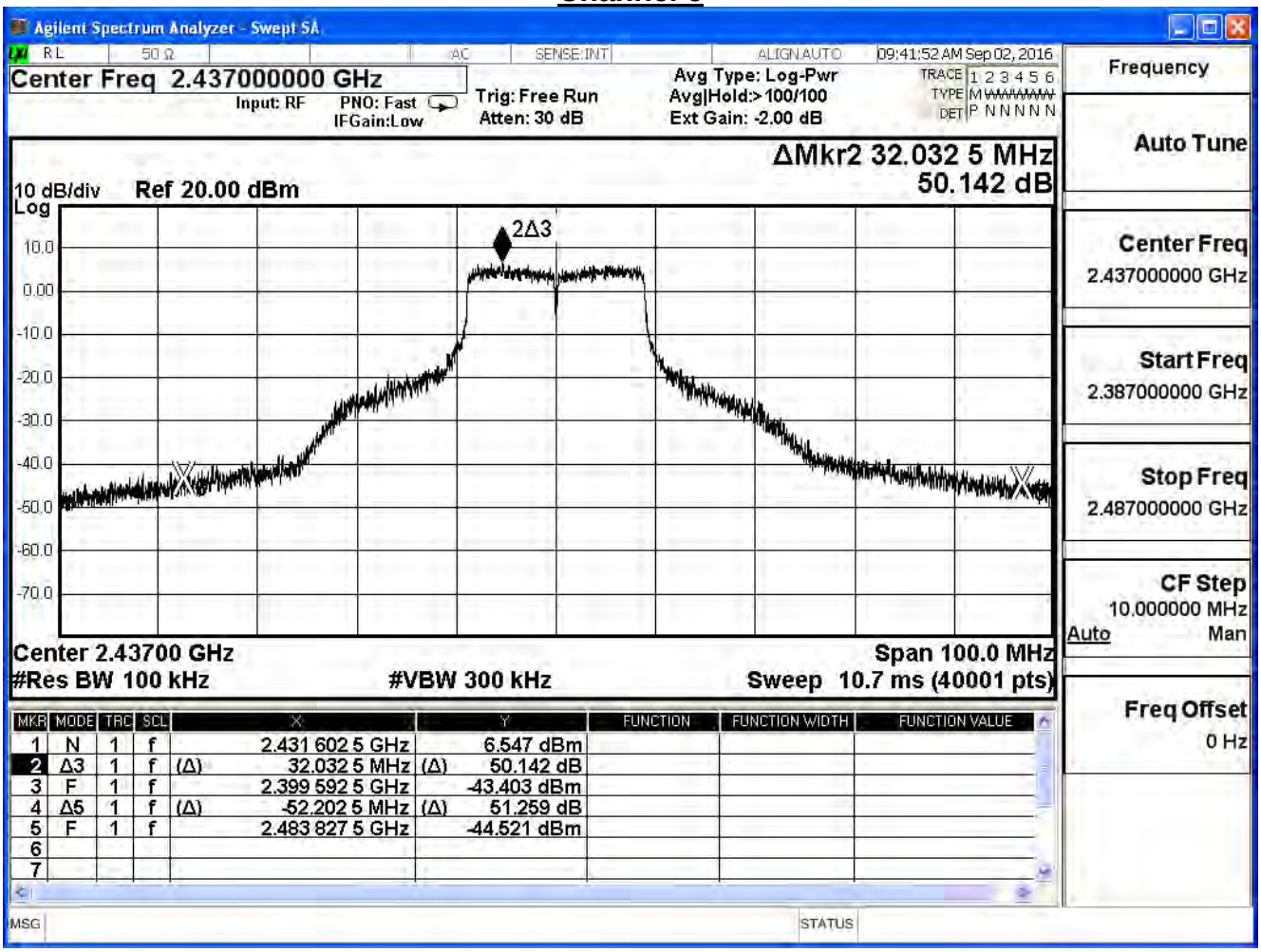
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11n_20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.91	≧30	Pass
6	2437	50.14	≧30	Pass
11	2462	48.49	≧30	Pass

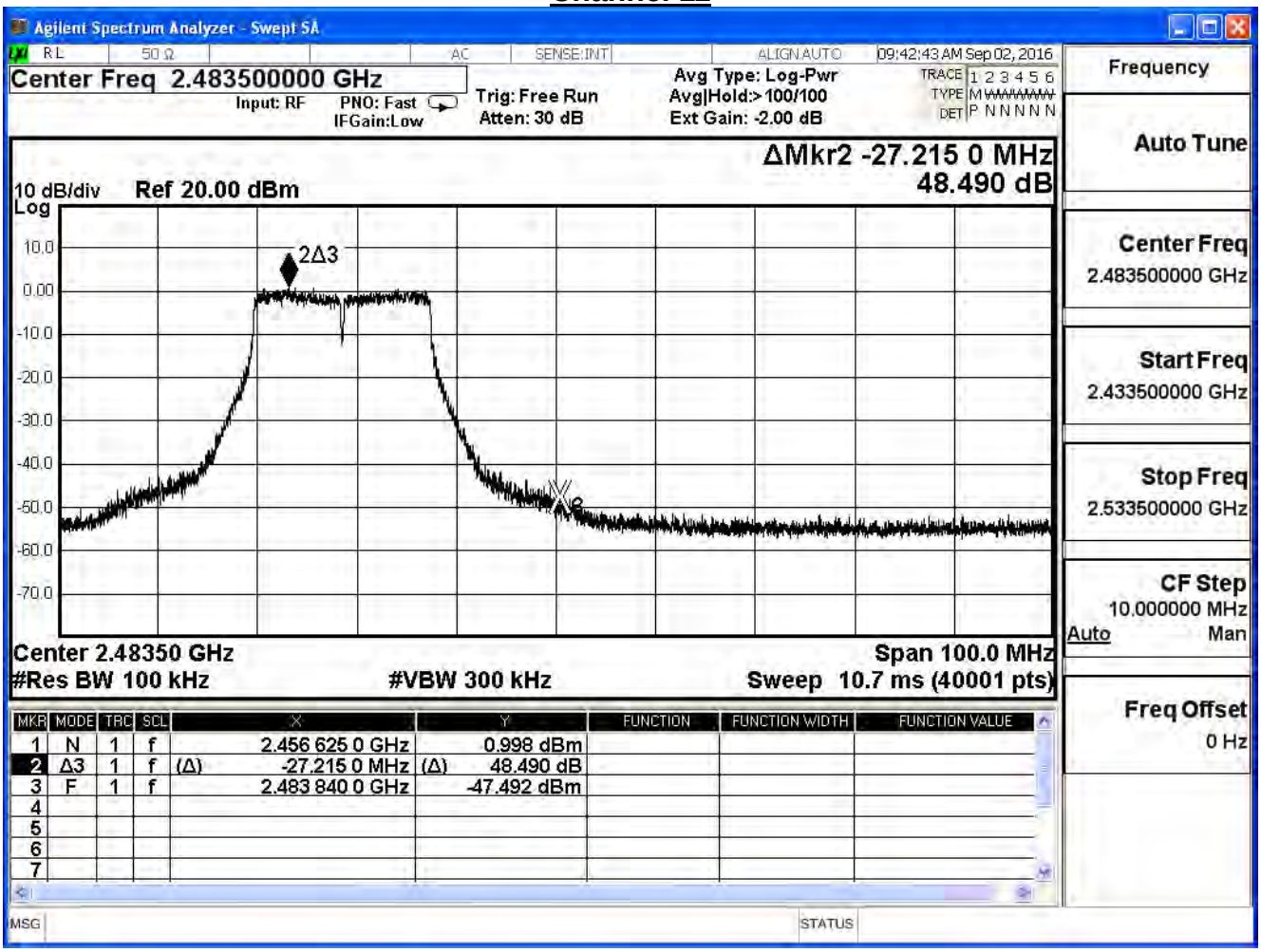
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:41:52 AM Sep 02, 2016
ΔMkr2 32.032 5 MHz
50.142 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.431 602 5 GHz 6.547 dBm
2 Δ3 1 f (Δ) 32.032 5 MHz (Δ) 50.142 dB
3 F 1 f 2.399 592 5 GHz -43.403 dBm
4 Δ5 1 f (Δ) -52.202 5 MHz (Δ) 51.259 dB
5 F 1 f 2.483 827 5 GHz -44.521 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

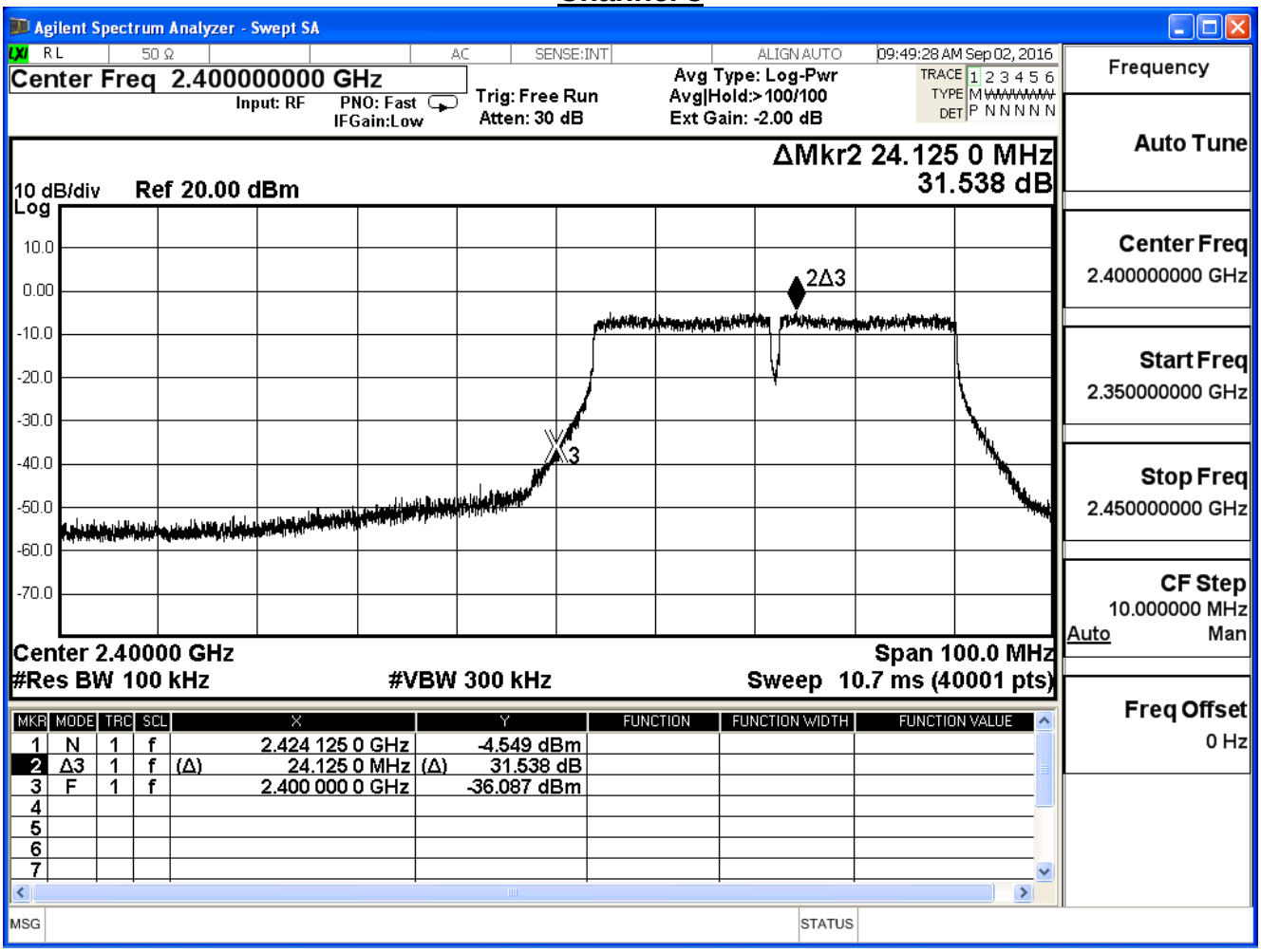
Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:42:43 AM Sep 02, 2016
ΔMkr2 -27.215 0 MHz
48.490 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.456 625 0 GHz 0.998 dBm
2 Δ3 1 f (Δ) -27.215 0 MHz (Δ) 48.490 dB
3 F 1 f 2.483 840 0 GHz -47.492 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

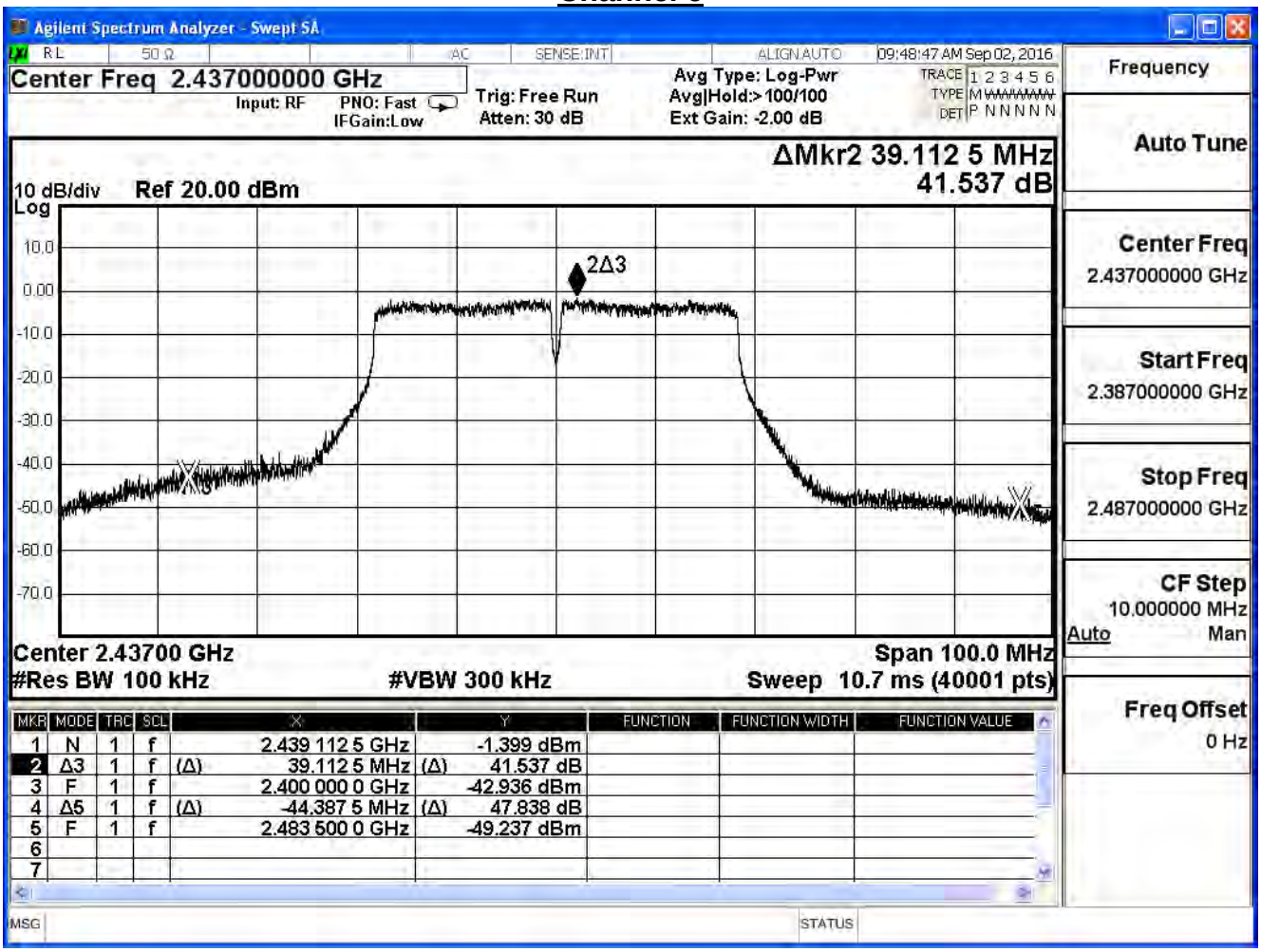
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11n_40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	31.54	≧30	Pass
6	2437	41.54	≧30	Pass
9	2452	44.12	≧30	Pass

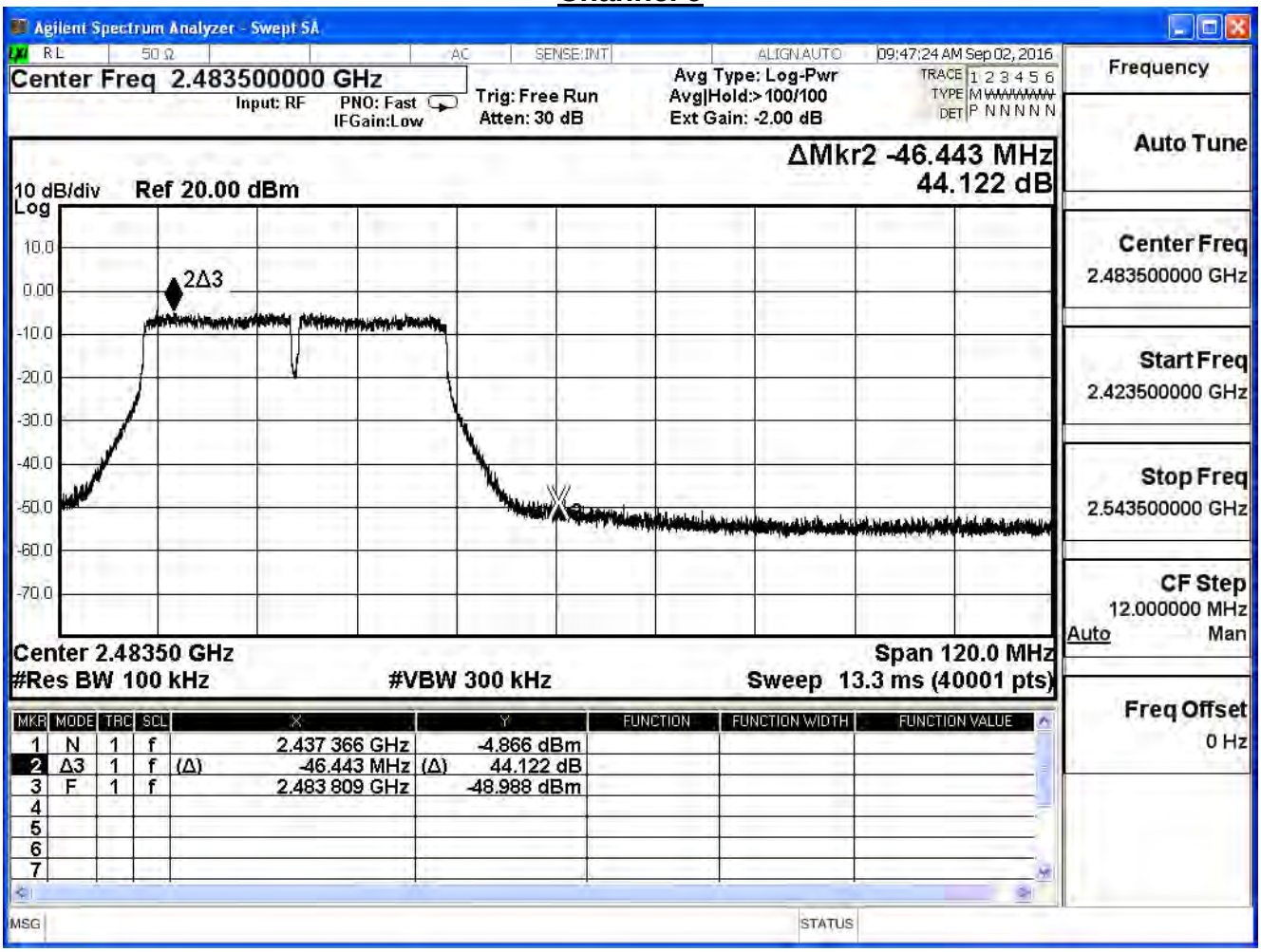
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:48:47 AM Sep 02, 2016
ΔMkr2 39.112 5 MHz
41.537 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.439 112 5 GHz -1.399 dBm
2 Δ3 1 f (Δ) 39.112 5 MHz (Δ) 41.537 dB
3 F 1 f 2.400 000 0 GHz -42.936 dBm
4 Δ5 1 f (Δ) -44.387 5 MHz (Δ) 47.838 dB
5 F 1 f 2.483 500 0 GHz -49.237 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

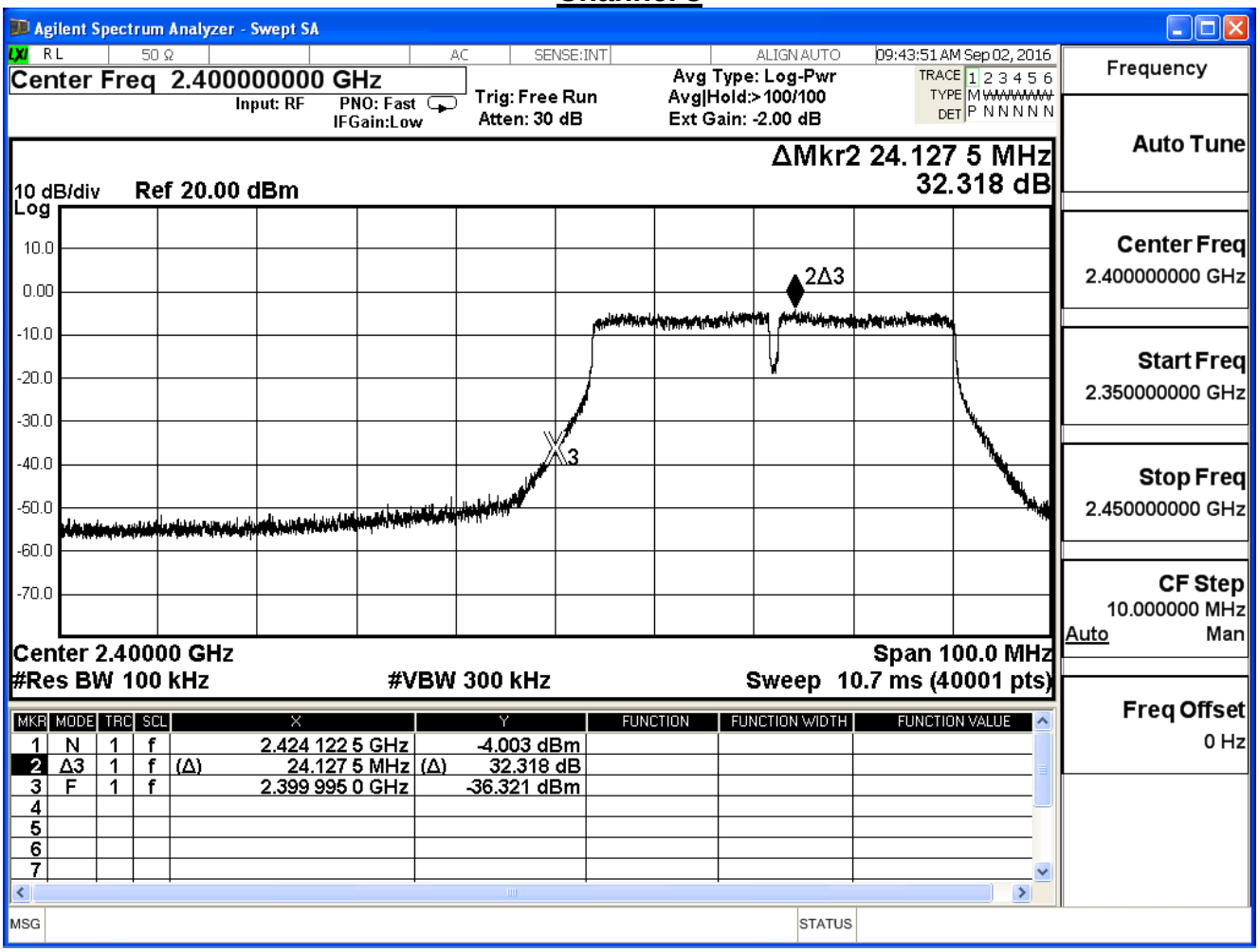
Channel 9


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:47:24 AM Sep 02, 2016
ΔMkr2 -46.443 MHz
44.122 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 120.0 MHz
Sweep 13.3 ms (40001 pts)
1 N 1 f 2.437 366 GHz -4.866 dBm
2 Δ3 1 f (Δ) -46.443 MHz (Δ) 44.122 dB
3 F 1 f 2.483 809 GHz -48.988 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.423500000 GHz
Stop Freq
2.543500000 GHz
CF Step
12.000000 MHz
Auto
Man
Freq Offset
0 Hz

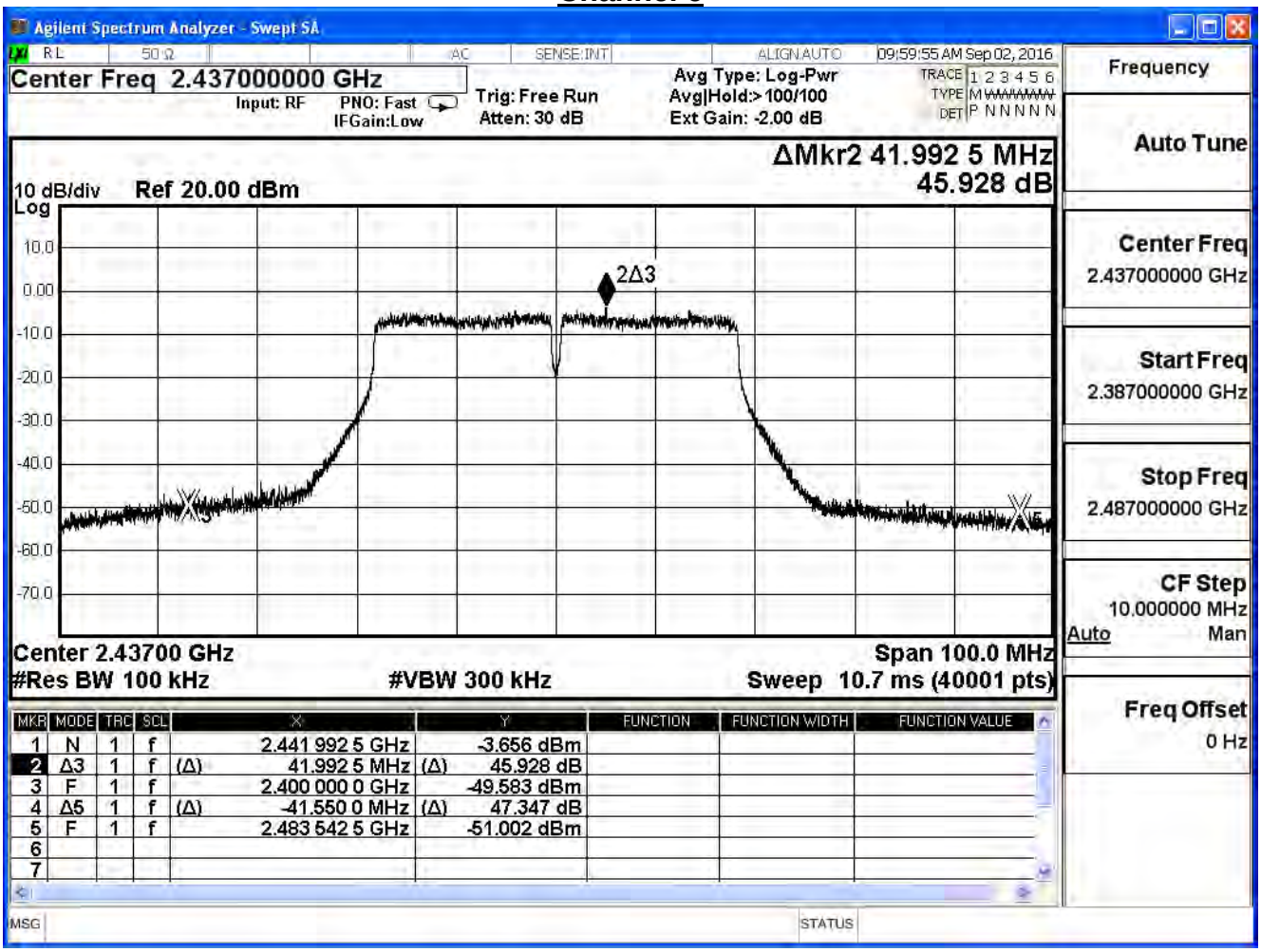
Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/02	Test Site	SR7

IEEE 802.11n_40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	32.32	≧30	Pass
6	2437	45.93	≧30	Pass
9	2452	44.36	≧30	Pass

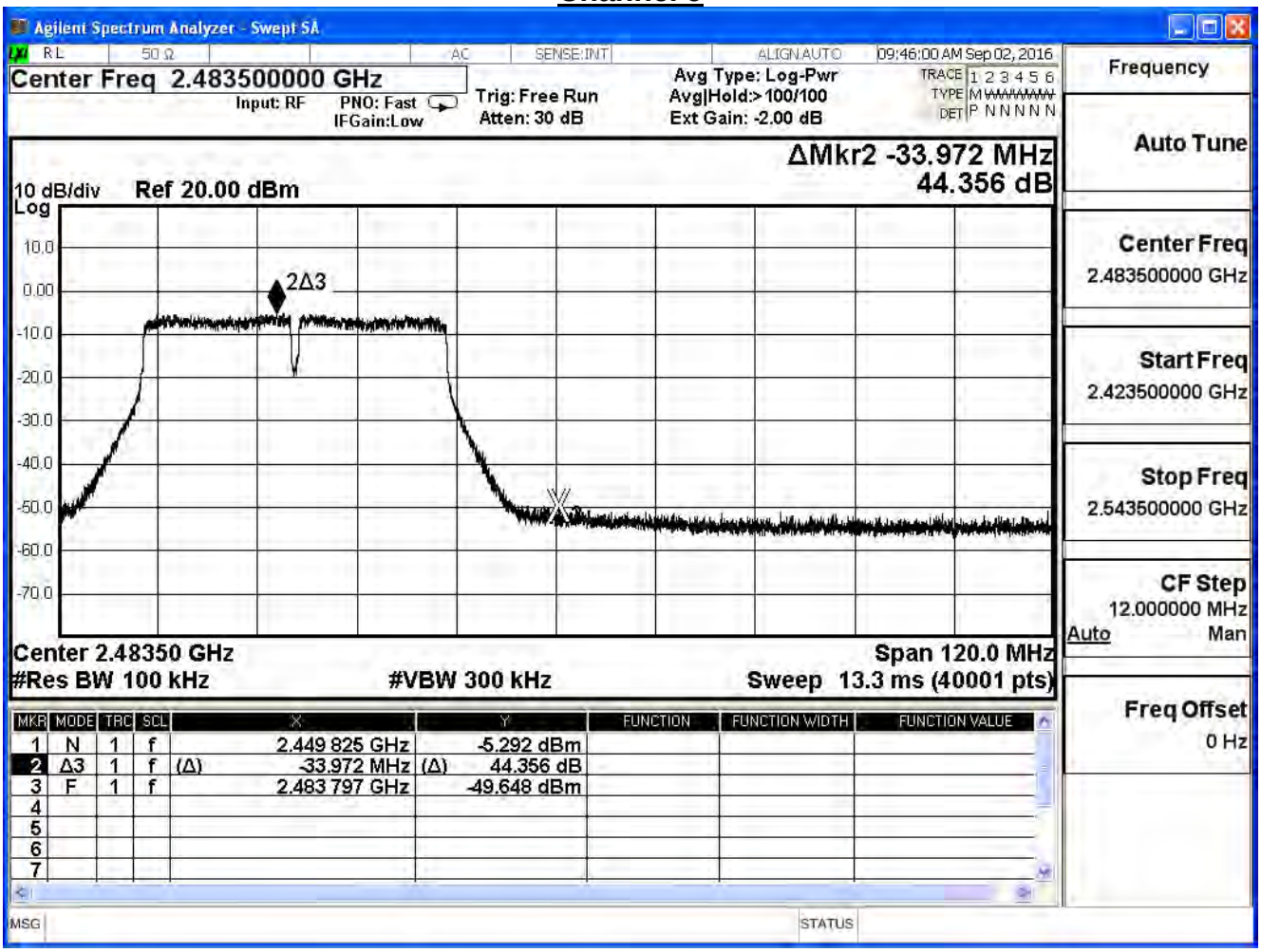
Channel 3



Channel 6

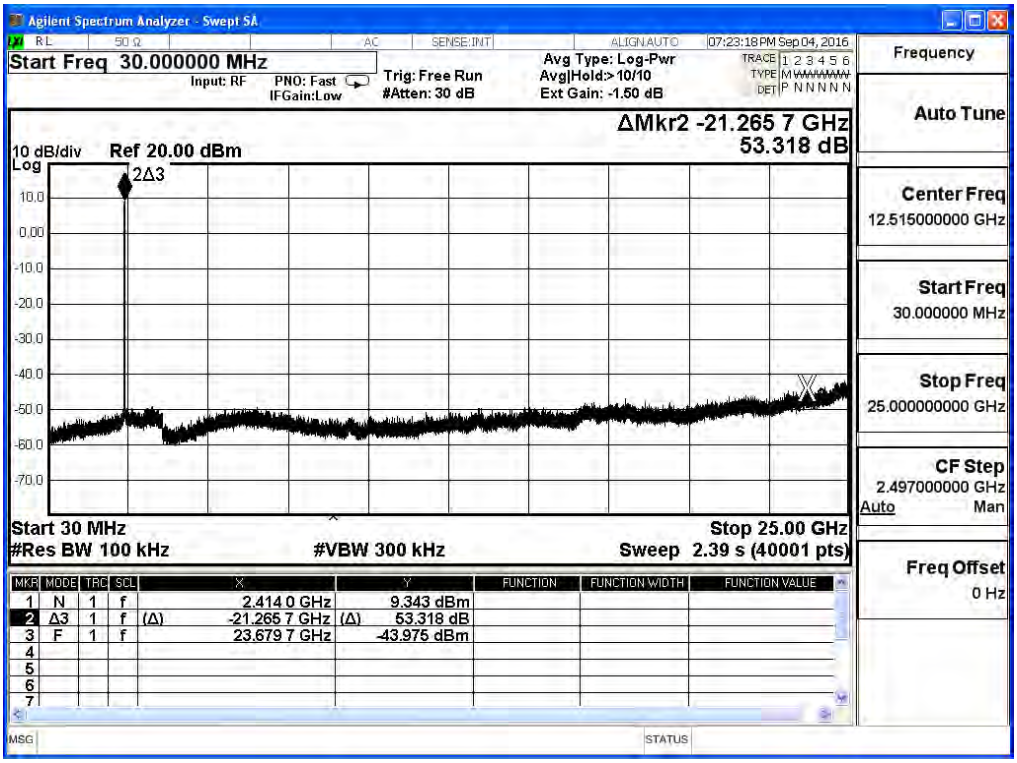

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:59:55 AM Sep 02, 2016
ΔMkr2 41.992 5 MHz
45.928 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.441 992 5 GHz -3.656 dBm
2 Δ3 1 f (Δ) 41.992 5 MHz (Δ) 45.928 dB
3 F 1 f 2.400 000 0 GHz -49.583 dBm
4 Δ5 1 f (Δ) -41.550 0 MHz (Δ) 47.347 dB
5 F 1 f 2.483 542 5 GHz -51.002 dBm
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.387000000 GHz
Stop Freq
2.487000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 9

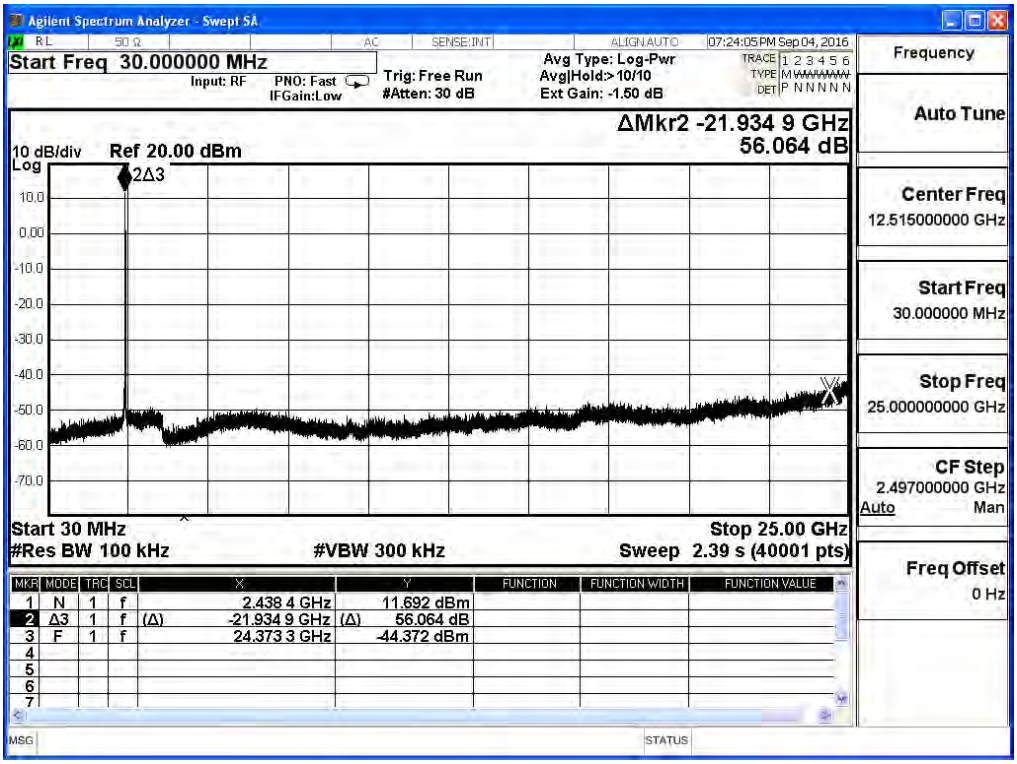

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
09:46:00 AM Sep 02, 2016
ΔMkr2 -33.972 MHz
44.356 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 120.0 MHz
Sweep 13.3 ms (40001 pts)
1 N 1 f 2.449 825 GHz -5.292 dBm
2 Δ3 1 f (Δ) -33.972 MHz (Δ) 44.356 dB
3 F 1 f 2.483 797 GHz -49.648 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.423500000 GHz
Stop Freq
2.543500000 GHz
CF Step
12.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	Dual-Band Wireless-AC PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode Mode 2: Transmit_CDD Mode		
Date of Test	2016/09/04	Test Site	SR7

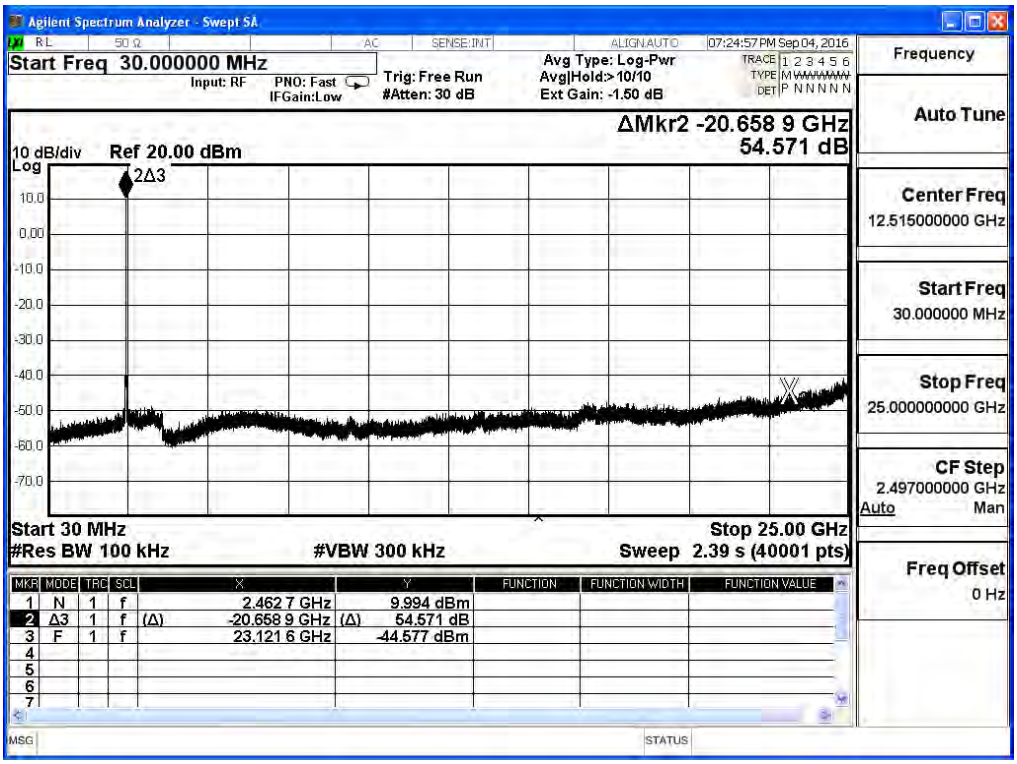
2412MHz (30MHz-25GHz)-802.11b (ANT 0)



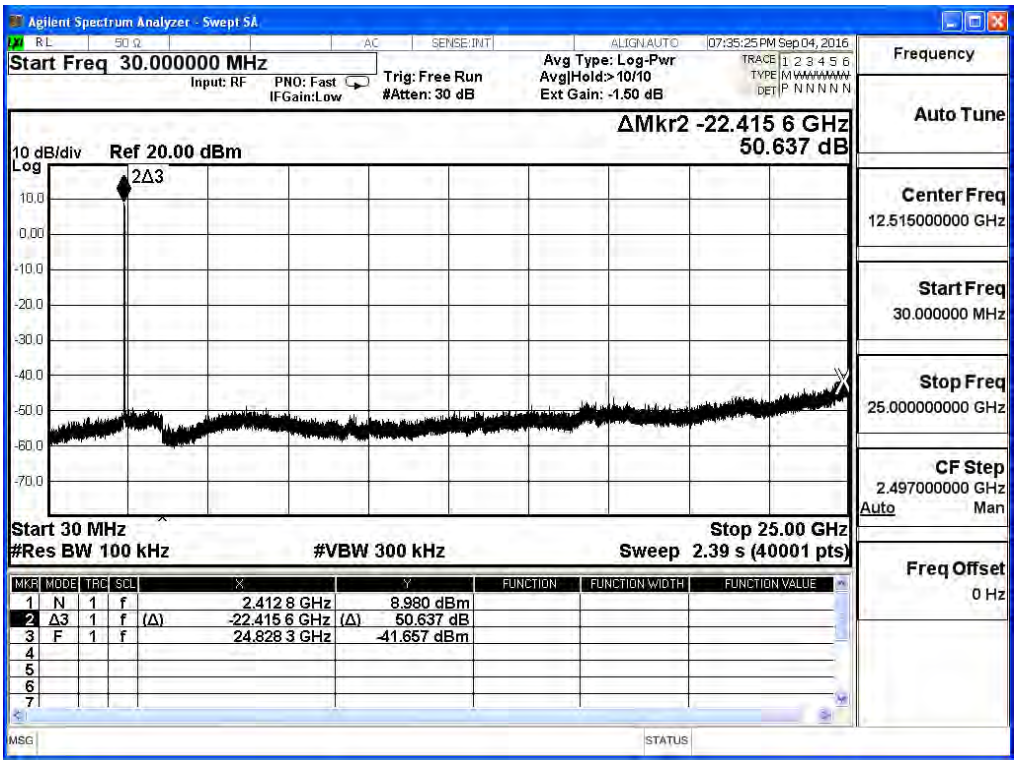
2437MHz (30MHz-25GHz)-802.11b (ANT 0)



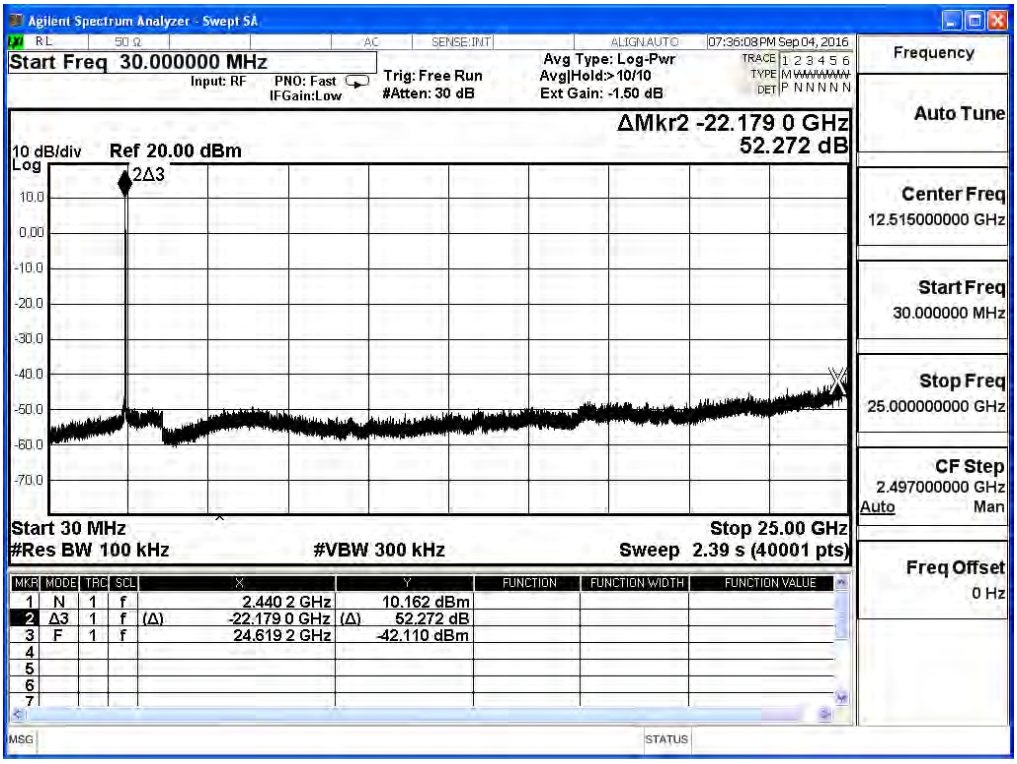
2462MHz (30MHz-25GHz)-802.11b (ANT 0)



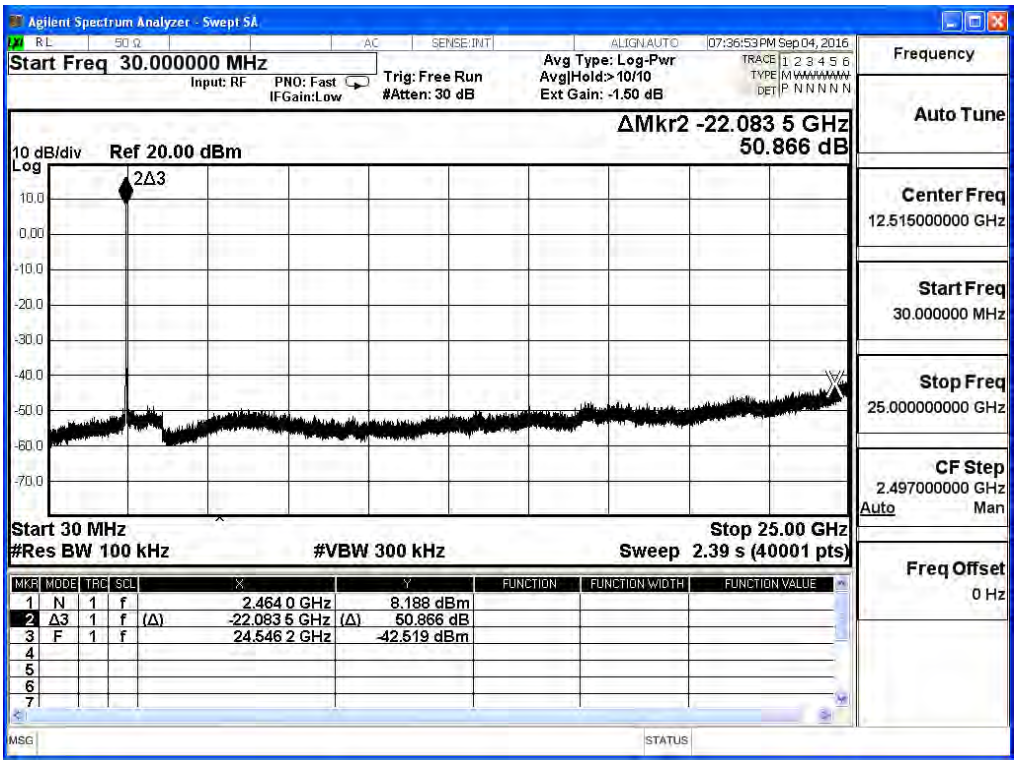
2412MHz (30MHz-25GHz)-802.11b (ANT 1)



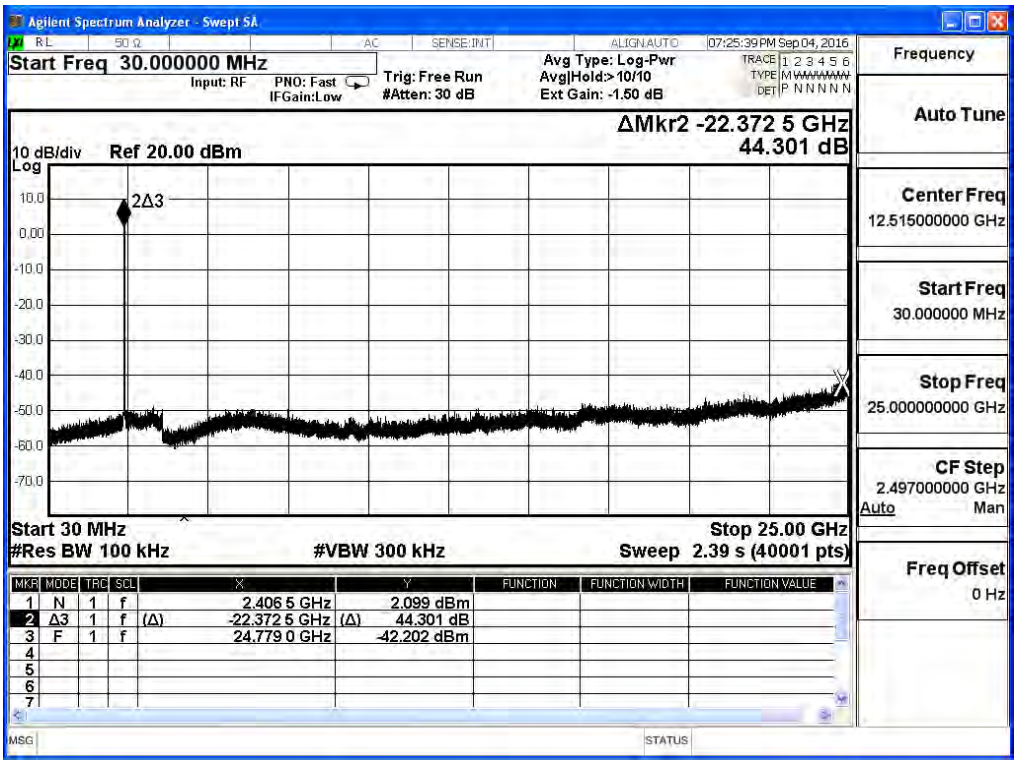
2437MHz (30MHz-25GHz)-802.11b (ANT 1)



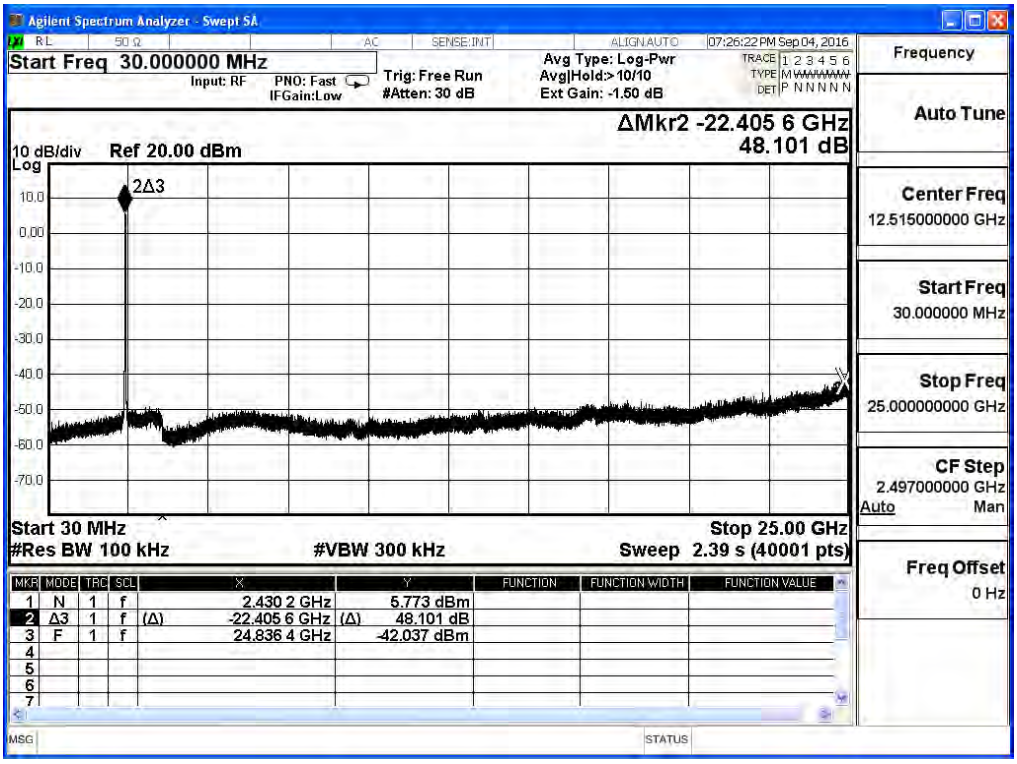
2462MHz (30MHz-25GHz)-802.11b (ANT 1)



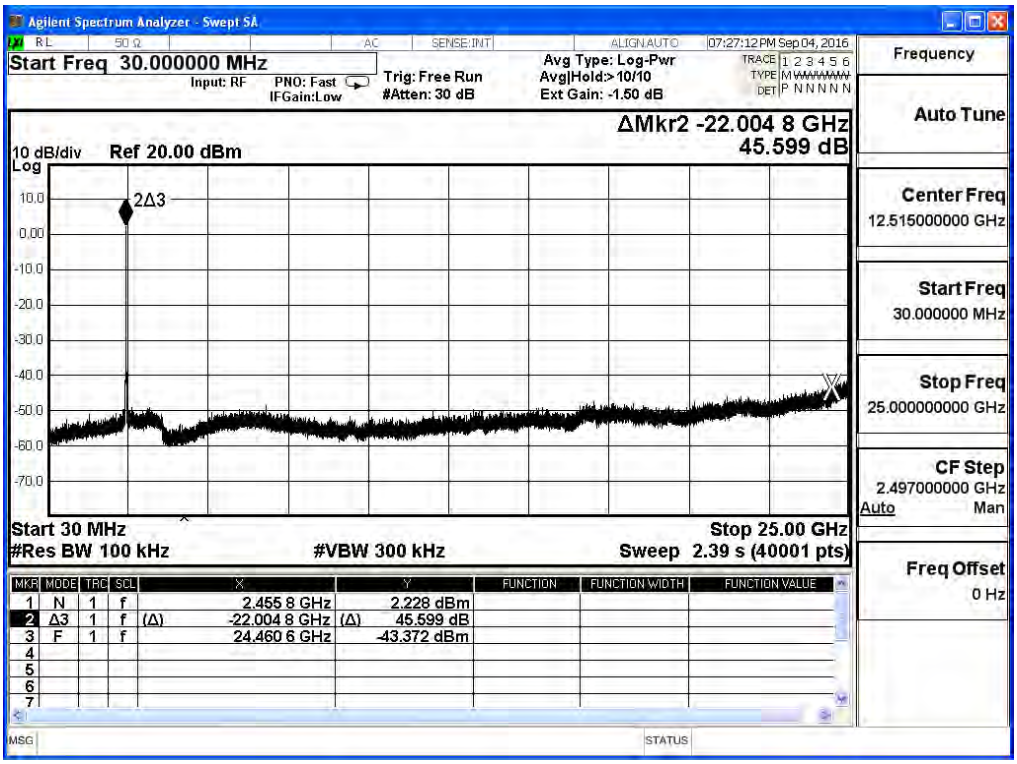
2412MHz (30MHz-25GHz)-802.11g (ANT 0)



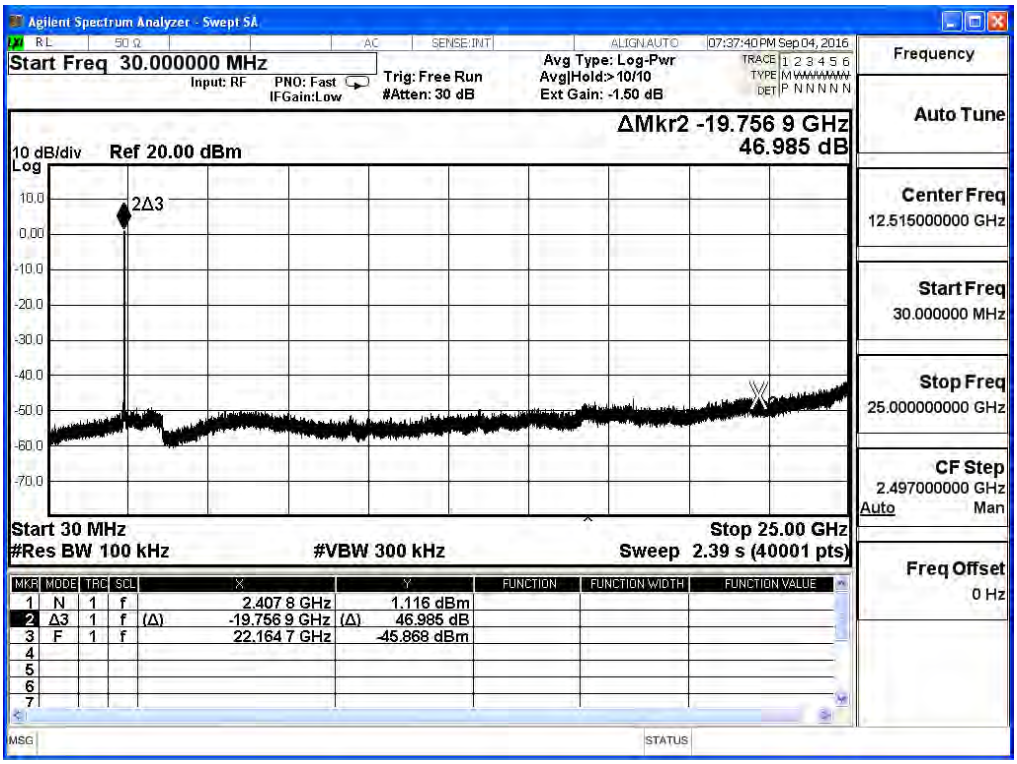
2437MHz (30MHz-25GHz)-802.11 g (ANT 0)



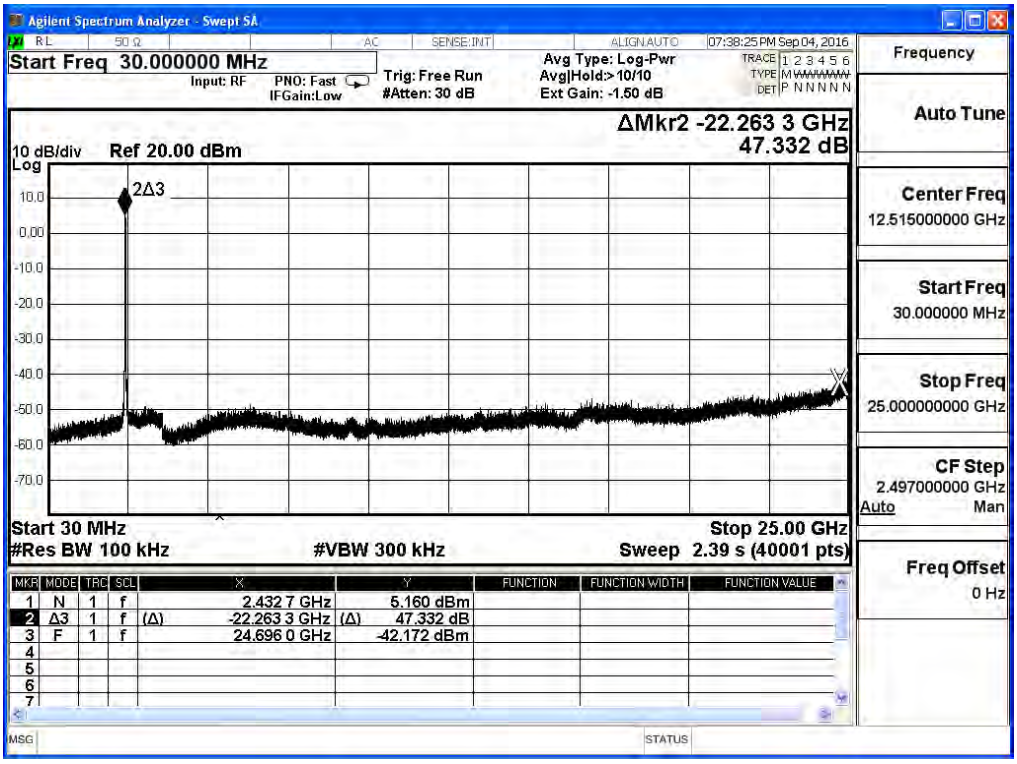
2462MHz (30MHz-25GHz)-802.11g (ANT 0)



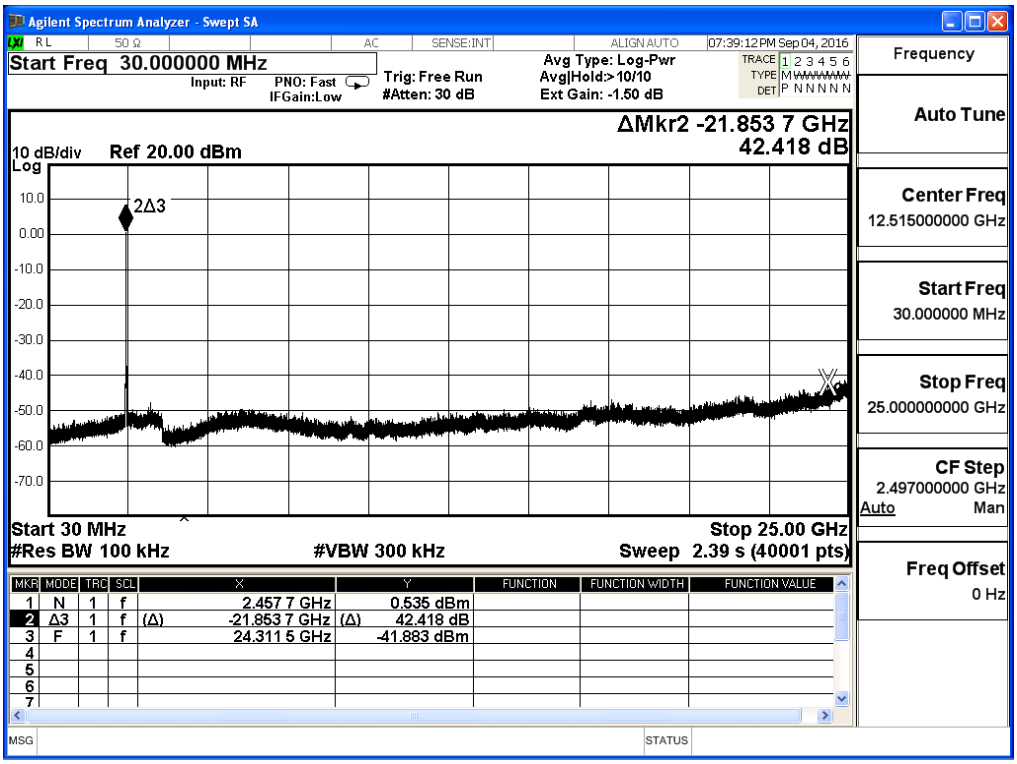
2412MHz (30MHz-25GHz)-802.11g (ANT 1)



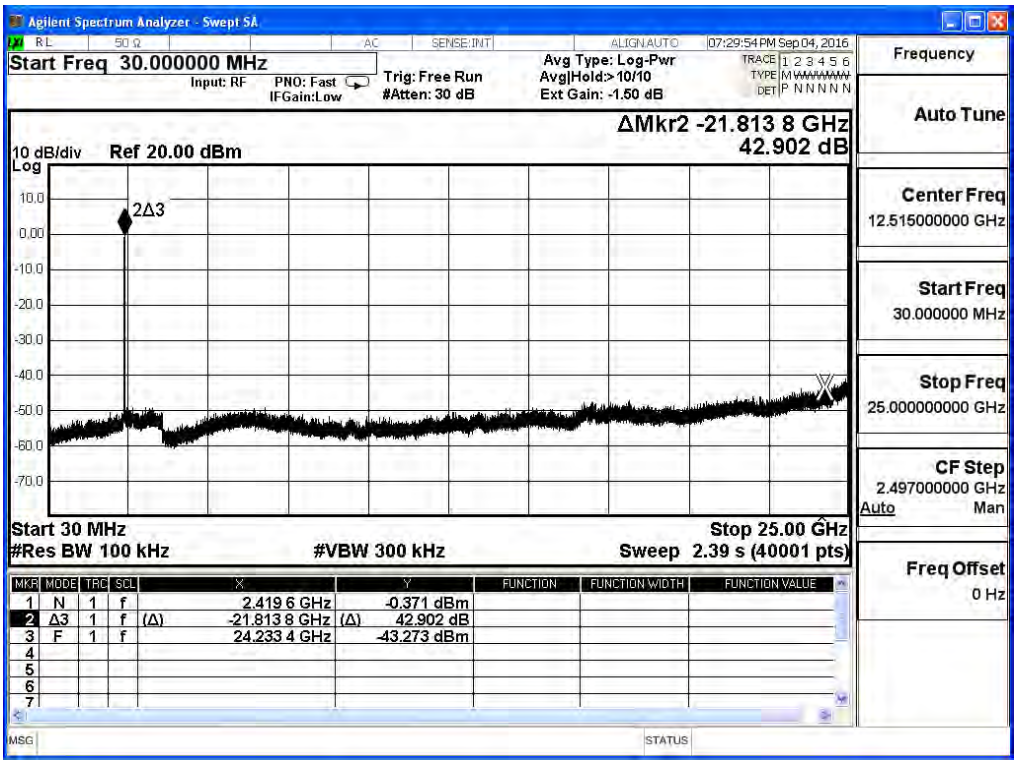
2437MHz (30MHz-25GHz)-802.11 g (ANT 1)



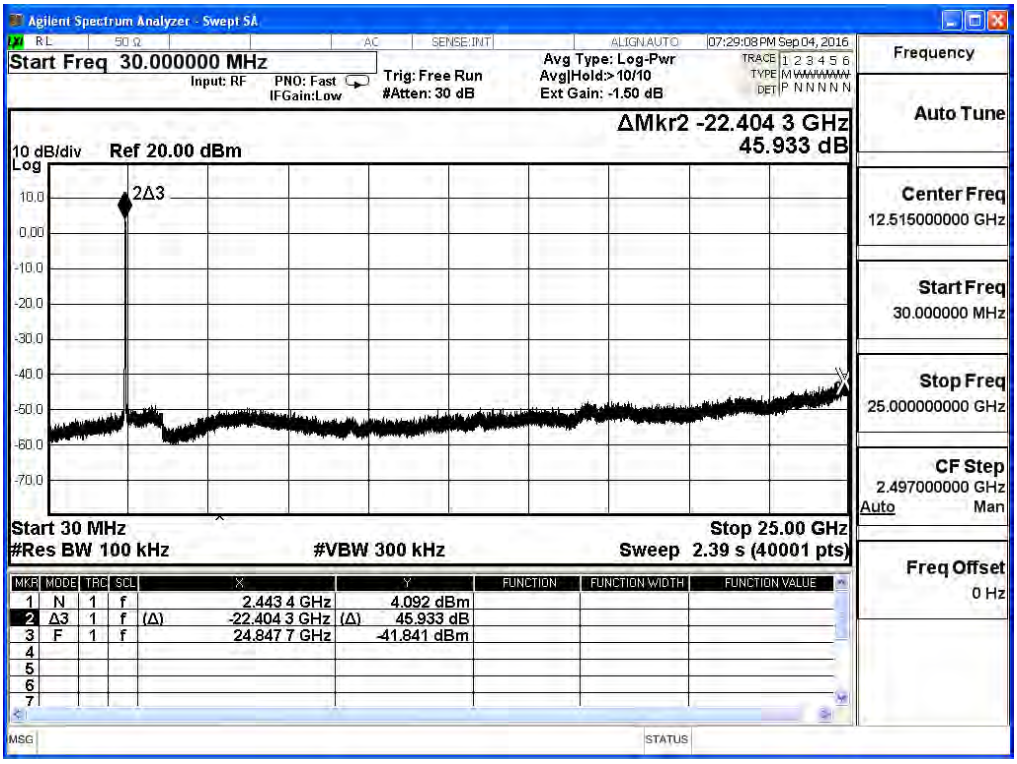
2462MHz (30MHz-25GHz)-802.11g (ANT 1)



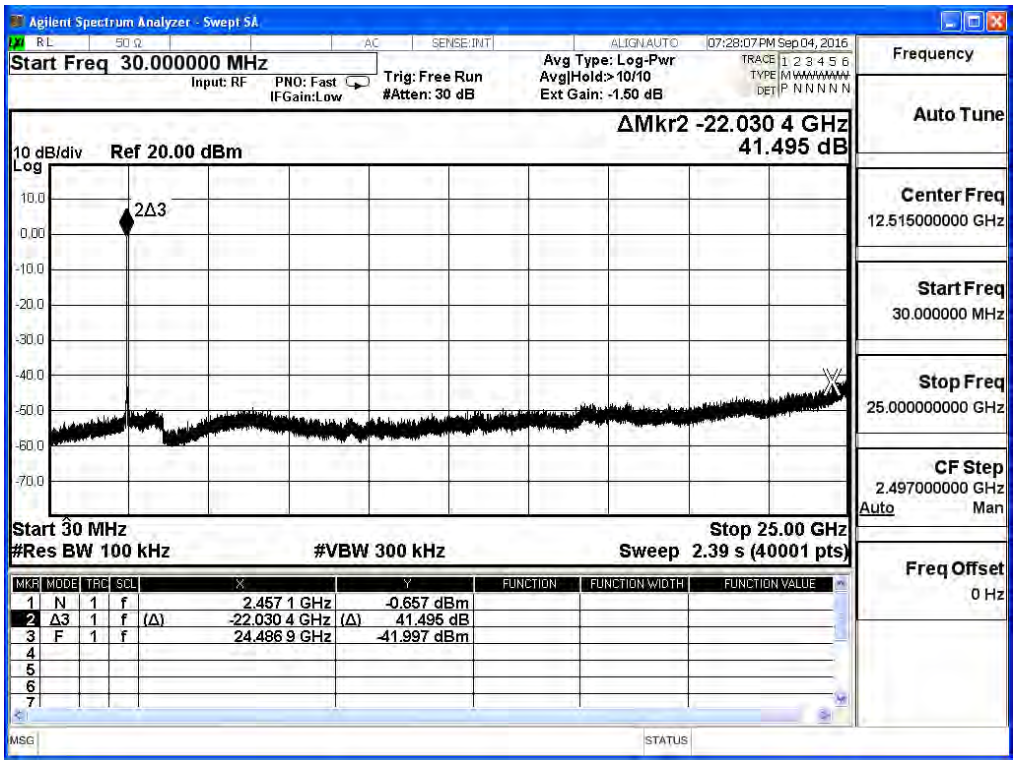
2412MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



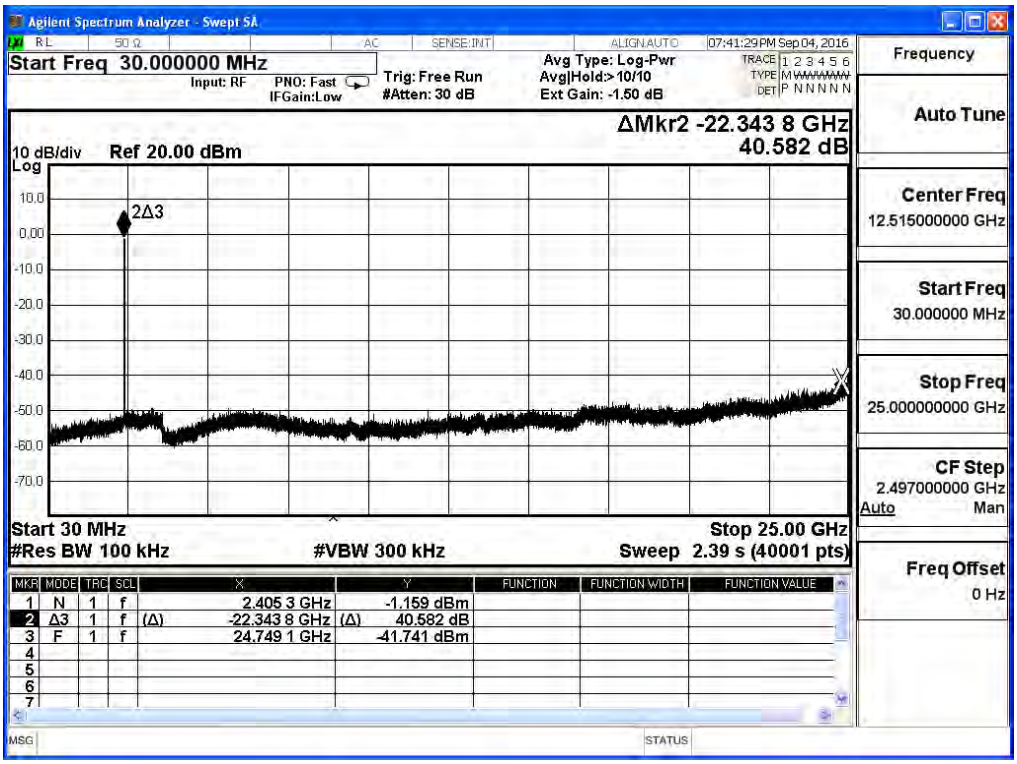
2437MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



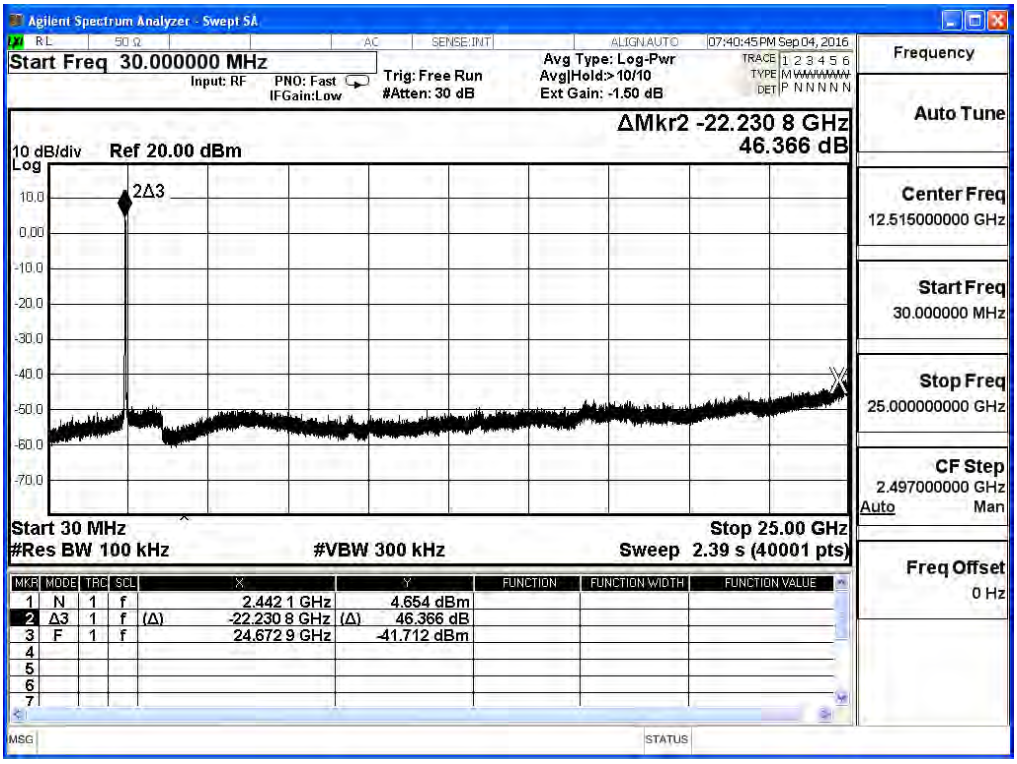
2462MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 0)



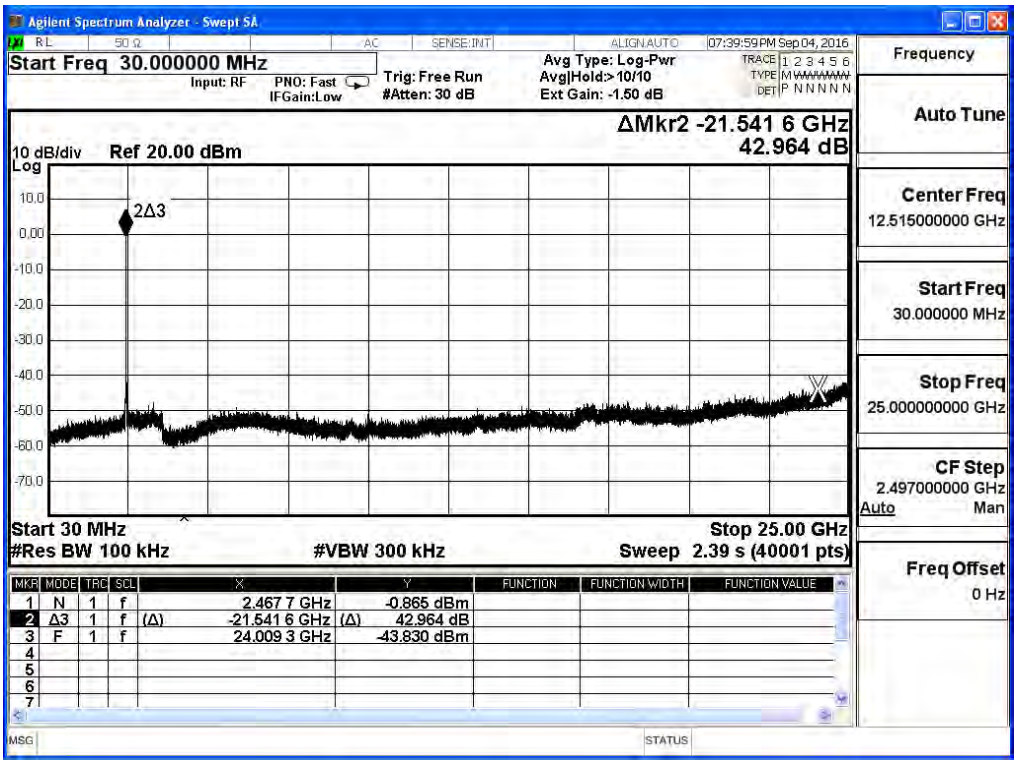
2412MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



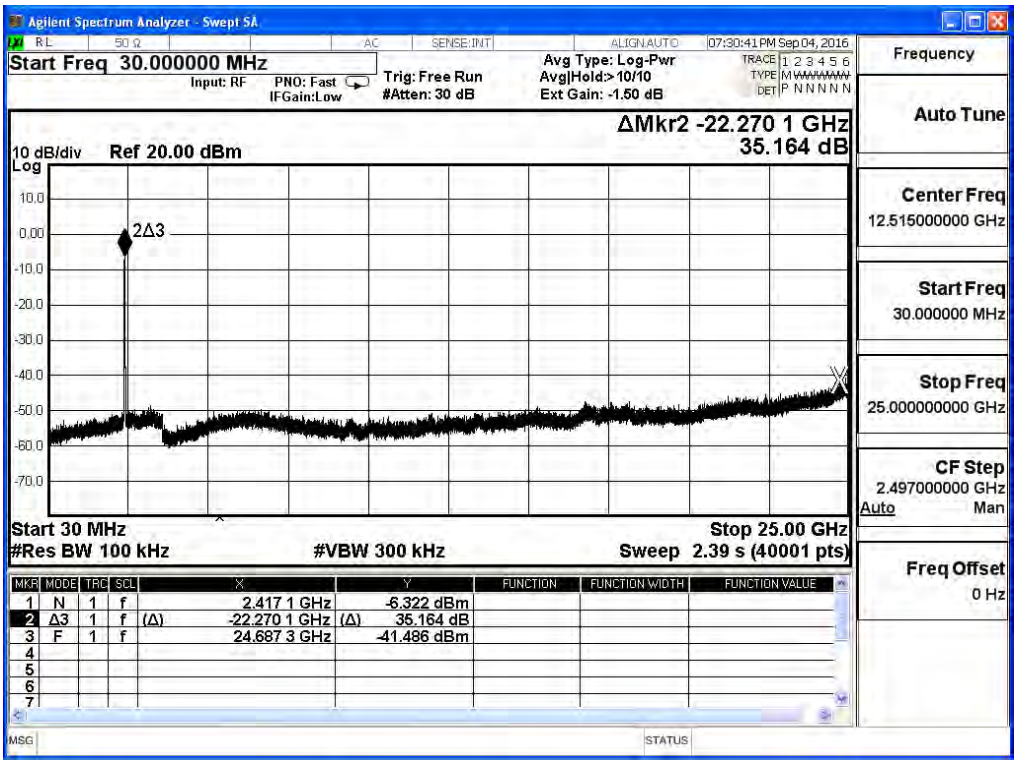
2437MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



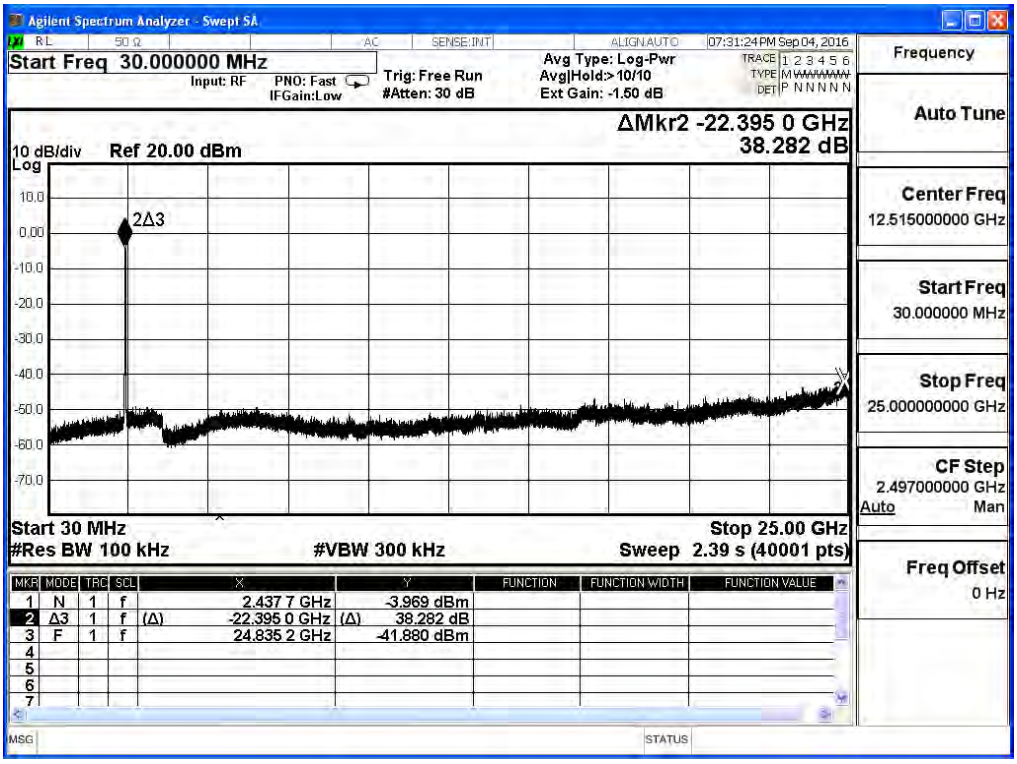
2462MHz (30MHz-25GHz)- IEEE802.11n 20MHz (ANT 1)



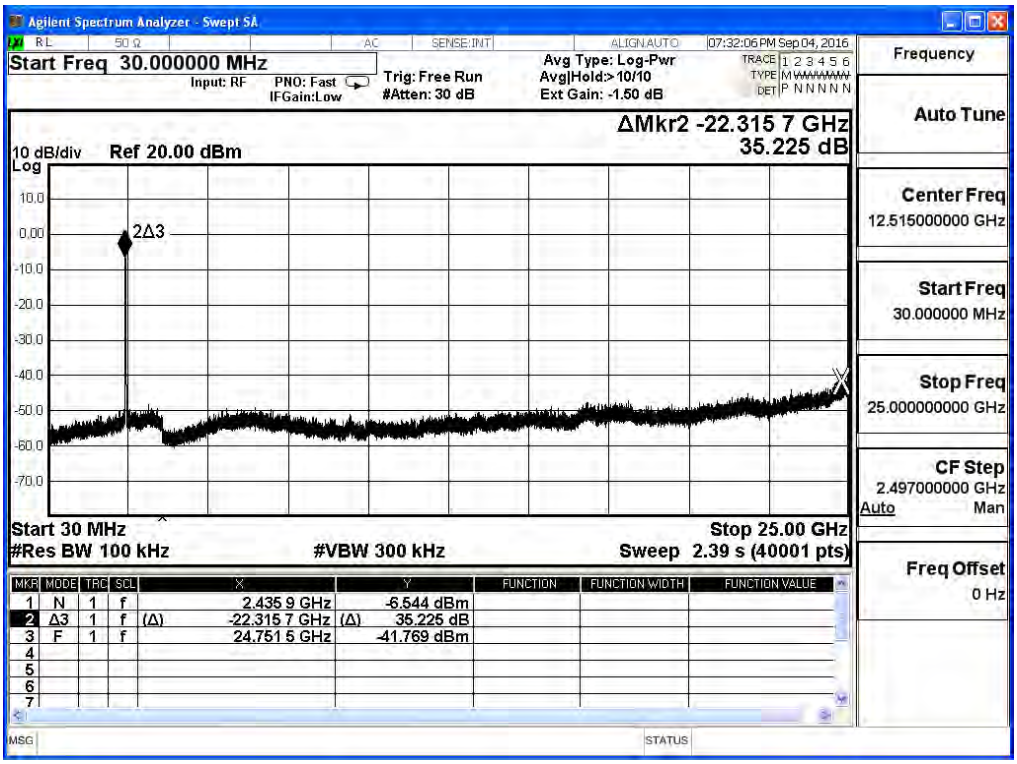
2422MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



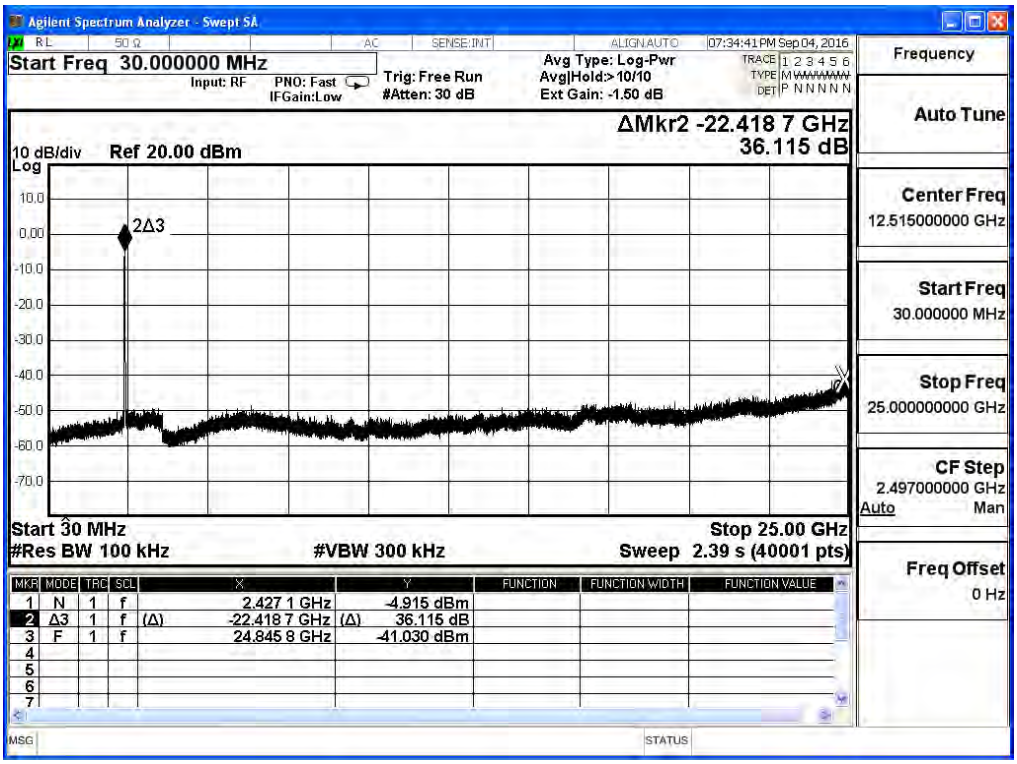
2437MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



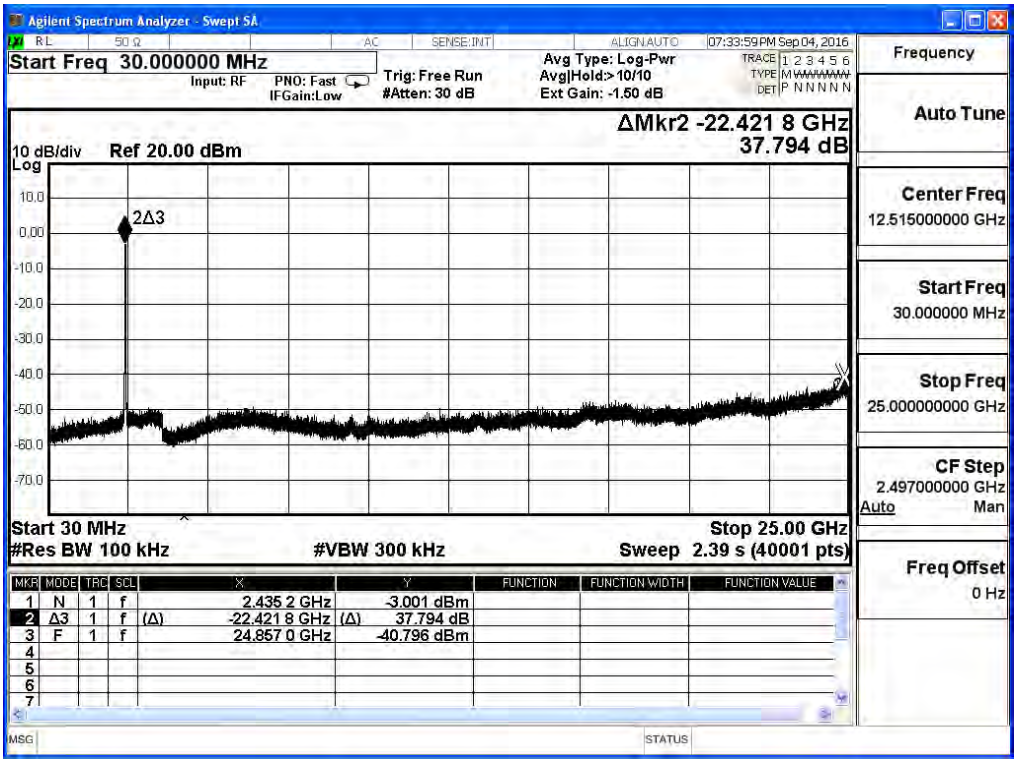
2452MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 0)



2422MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)



2437MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)



2452MHz (30MHz-25GHz)- IEEE802.11n 40MHz (ANT 1)